

### ELECTRICAL ABBREVIATIONS

4

1PH 1P 2/C 3/C	SINGLE-PHASE SINGLE POLE TWO-CONDUCTOR THREE-CONDUCTOR	IMC IR IWH
3PH 4/C 4W	THREE-PHASE FOUR-CONDUCTOR FOUR-WIRE AIR CONDITIONING UNIT	J—B( kV kVA kVAH
A/E AC ACC ADDL	ARCHITECT/ENGINEER ALTERNATING CURRENT ACCESSIBLE ADDITIONAL	kVAR kW kWH kWHN
ADJ <b>AF</b> AFC AFF AFG	AMPERE FRAME OR AMP FUSE AVAILABLE FAULT CURRENT	LED LF LM LP
AHJ AIC ALT AMB AMP	AUTHORITY HAVING JURISDICTION AMPERE INTERRUPTING CAPACITY ALTERNATE AMBIENT AMPERE	LT LTG LTNG LV
ARCH ASC <b>AT</b> ATS	ARCHITECT AMPS SHORT CIRCUIT <b>AMPERE TRIP</b> AUTOMATIC TRANSFER SWITCH	MAX MC MCA MCB
AUTO BAT <b>BC</b> BD	AUTOMATIC BATTERY BARE COPPER BOARD	MCC MDP MECH MG MH
BFF BLDG BRKR BYP	BELOW FINISH FLOOR BUILDING BREAKER BY PASS	MIN MOCF <b>MLO</b> MT MTD
C CAB CALC CAP	CONDUIT CABINET CALCULATE CAPACITY	MTG MTS MV MVA
CAT CCR CD CF CF/CI	CATALOG CONTROL CONTACTOR CONSTRUCTION DOCUMENTS CONTRACTOR FURNISHED CONTRACTOR	MW NA NEC NEMA
CF/OI CFE CHW	FURNISHED/CONTRACTOR INSTALLED CONTRACTOR FURNISHED/OWNER INSTALLED CONTRACTOR FURNISHED EQUIPMENT CHILLED WATER	<b>N</b> NFPA NIC
CHWP CKT	CHILLED WATER PUMP CIRCUIT CIRCUIT BREAKER CURRENT LIMITING FUSE CEILING	NO NS NTS OC
CMU COMPT CONC CONT	CONCRETE MASONRY UNIT COMPARTMENT CONCRETE CONTINUE	OD OL P
CONTR COORD CPT CRI CT	CONTRACTOR COORDINATE CONTROL POWER TRANSFORMER COLOR RENDERING INDEX CURRENT TRANSFORMER	PB PEC PED PEND
CU CU FT CUR DB	COPPER CUBIC FEET CURRENT DIRECT BURIAL	PF PH PNL <b>POD</b> PT
DC DCP DEMO DISC	DIRECT CURRENT DIMMER CONTROL PANEL	PVC PVC PWR RCP
DISTR PNL DMR SW <b>DN</b> DPDT	DISTRIBUTION PANEL DIMMER SWITCH DOWN DOUBLE POLE, DOUBLE THROW	REC RECF <b>RGS</b> RM
DPST DS DWG EC	DISCONNECT SWITCH DRAWING EMPTY CONDUIT	REQE SCC SES SF
EG EL ELEC EMER EMI		SHT SI SPEC SPST SURF
EMT ENCL EPO EPRF ESMT	EMERGENCY POWER OFF	SW SWBI SWGF TC
EWH EXIST FA	ELECTRIC WATER HEATER EXISTING FIRE ALARM	TP TPS TTB TYP
FC FIXT FLA FLEX FLUOR	FOOTCANDLE FIXTURE FULL LOAD AMPS FLEXIBLE METALLIC CONDUIT FLUORESCENT	UFD UGNI UL UON
FT FU SW FVNR FVR	FEET OR FOOT FUSED SWITCH FULL VOLTAGE NON-REVERSING FULL VOLTAGE REVERSING	UPS UTIL V VA
G GEN GFCI	GROUND OR GENERATOR GENERATOR GROUND FAULT CIRCUIT INTERRUPTER	VAR VFD VOLT W

IMC	INTERMEDIATE METAL CONDUIT
IR	INFRARED
IWH	INSTANTANEOUS WATER HEATER
J-BOX	JUNCTION BOX
kV kVA kVAH kVAR kW kWH kWHM	
LED	LIGHT EMITTING DIODE
LF	LINEAR FEET (FOOT)
LM	LUMEN
LP	LIGHT POLE
LT	LIGHT
LTG	LIGHTING
LTNG	LIGHTNING
LV	LOW VOLTAGE
MAX MC MCA MCB MCC <b>MDP</b> MECH MG MH MIN MOCP <b>MLO</b> MT MTD MTG MTS MV MVA MW	MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MAIN DISTRIBUTION PANEL
NA NEC NEMA NFPA NIC NO NS NTS OC	NOT APPLICABLE NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NATIONAL FIRE PROTECTION ASSOCIATION NOT IN CONTRACT NORMALLY OPEN NO SCALE NOT TO SCALE ON CENTER
OD	OUTSIDE DIAMETER
OL	OVERLOAD
P PB PEC PED PEND PF PH PNL <b>POD</b> <b>PT</b> <b>PVC</b> PVC PWR	POWER FACTOR PHASE PANEL POWER OPERATED DAMPER POTENTIAL TRANSFORMER POWER TYPE ROOF VENTILATION
RCP	REFLECTED CEILING PLAN
REC	RECESSED
RECPT	RECEPTACLE
<b>RGS</b>	<b>RIGID GALVANIZED STEEL</b>
RM	ROOM
REQD	REQUIRED
SCC SES SF SHT SI SPEC SPST SURF SW SWBD SWBD SWGR	SQUARE FOOT (FEET) SHEET INTERNATIONAL SYSTEM OF UNITS SPECIFICATION SINGLE POLE, SINGLE THROW
TC	<b>TIME CLOCK</b>
TP	TWISTED PAIR
TPS	TWISTED PAIR SHIELDED
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UFD	UNDERFLOOR DUCT
UGND	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY
V	VOLT
VA	VOLT AMPERE
VAR	VOLT AMPERE REACTIVE
VFD	VARIABLE FREQUENCY DRIVE
VOLT	VOLTAGE
W	WATT
WH	WATER HEATER
WP	WEATHERPROOF
XFER	TRANSFER
XFMR	TRANSFORMER

### ARCHITECT/ENGINEERS:

FARRIS ENGINEERING OMAHA | LINCOLN | SIDNEY | COLORADO SPRINGS farris-usa.com 

FEI #202013



5

E-7734

6

6

7

### ELECTRICAL SYMBOLS - DIAGRAM

	DELTA CONNECTION
$\diamond$	MOTOR, SINGLE-PHASE
Ø	MOTOR, THREE-PHASE
$\sim$	TRANSFORMER
¥.	WYE CONNECTION
	EARTH GROUND
	FUSE WITH RATING
	MOLDED CASE CIRCUIT BREAKER
`\	SWITCH AND FUSE UNIT
	DISCONNECT SWITCH, FUSED
	DISCONNECT SWITCH, UNFUSED
$\boxtimes^{\!$	STARTER, COMBINATION WITH DISCONNECT SWITCH
$\boxtimes$	STARTER OR MOTOR CONTROLLER
A	AMMETER
V	VOLTMETER
W	WATTMETER
WH	WATT-HOUR METER

### **GENERAL NOTES**

- A. ALL FINAL LOCATIONS AND ARRANGEMEI SHALL BE OBTAINED FROM THE ARCHIT PLAN.
- B. LIGHTING FIXTURES WITH MORE THAN T OUTER LAMPS CONTROLLED WITH ONE CONTROLLED BY A SECOND SWITCH.
- C. (1) EACH BRANCH CIRCUIT HOMERUN THREE CIRCUITS. EACH BRANCH CIRCU SEPARATE GREEN INSULATED EQUIPMEN
- D. MULTI-GANG BACKBOXES FOR DIFFEREN EMERGENCY AND NORMAL BRANCH WIRI DIVIDERS BETWEEN DEVICES.

### GENERAL NOTES - DEMOLITION

- A. EXISTING EQUIPMENT, SUCH AS LIGHTIN DEVICES, CONDUITS, ETC., SHOWN ON COMPLETELY. CUT/CAP CONDUITS AT PERIMETER AND RÉMOVE CONDUIT WITH DISCONNECT WIRING AT THE OVERCURR AND REMOVE WIRING COMPLETELY FROM CONDUITS.
- B. REMOVE ALL ACCESSIBLE ABANDONED CAP AND LABEL IN JUNCTION BOX FOR WITH THE NATIONAL ELECTRIC CODE.
- C. MAINTAIN AND RESTORE, IF INTERRUPTE CONDUCTORS PASSING THROUGH RENO UNDISTURBED AREAS.

### ELECTRICAL SYMBOLS - POWER PLAN

$\sim$	MOTOR, SINGLE-PHASE
Ø	MOTOR, THREE-PHASE
T	TRANSFORMER, PLAN
Y.	WYE CONNECTION
	BRANCH CIRCUIT HOMERUN.
۲	PUSH BUTTON
	DISTRIBUTION PANEL
<i></i>	PANELBOARD CABINET, FLUSH MOUNTED
7////2	PANELBOARD CABINET, SURFACE MOUNTED
$\square$	DISCONNECT SWITCH, FUSED
	DISCONNECT SWITCH, UNFUSED
$\boxtimes$	STARTER, COMBINATION WITH DISCONNECT SWITCH
$\bowtie$	STARTER OR MOTOR CONTROLLER
₩ VFD	VARIABLE FREQUENCY DRIVE

\$#	SWITCH (# SUBSCRIPT AS INDICATED	BELOW):
	M = MANUAL MOTOR STARTING	K = KEY OPERATED
	MP= MOTOR SNAP WITH PILOT LIGHT	LM= LOW VOLTAGE MASTER
	(THERMAL TYPE)	MC= MOMENTARY CONTACT
	WP= WEATHER PROOF	P = WITH PILOT LIGHT

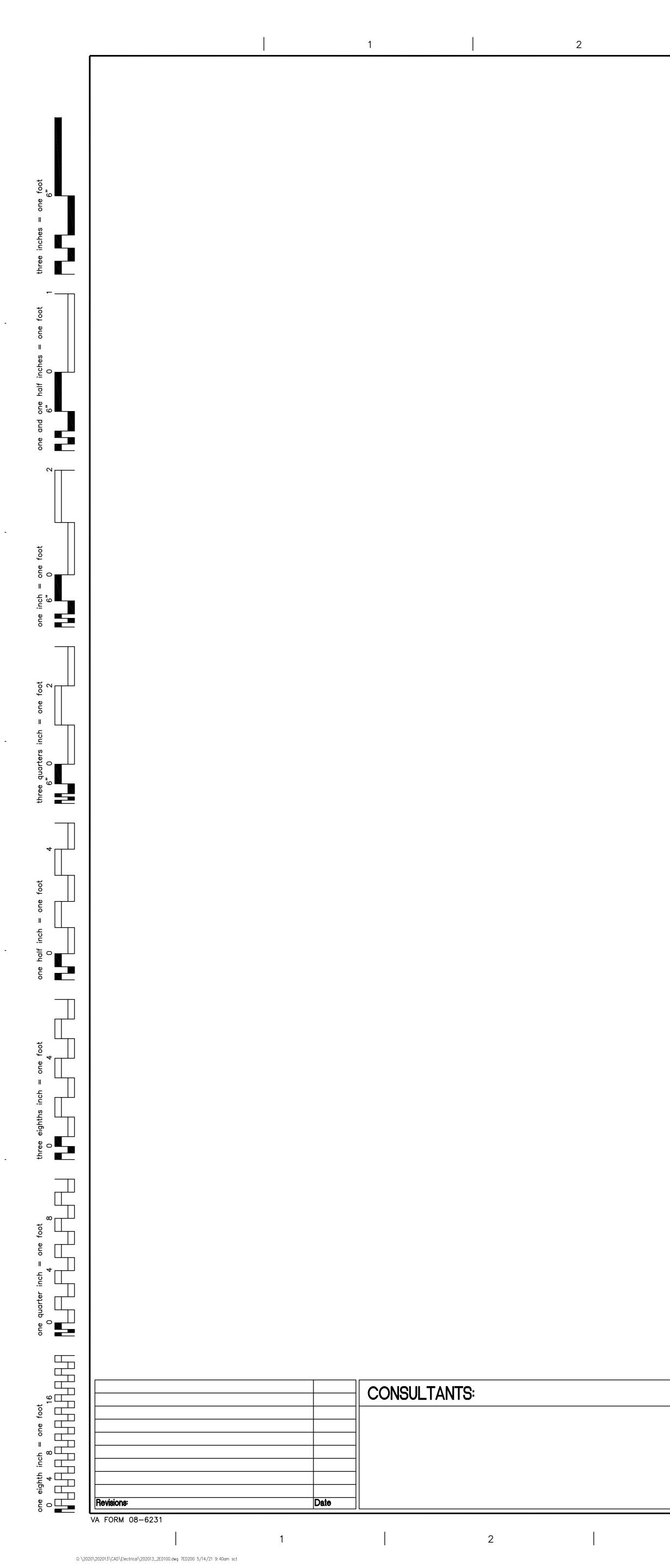
### ELECTRICAL SYMBOLS - LIGHTING PLAN

\$#	SWITCH BLANK = SINGLE POLE 3 = THREE-WAY D = DIMMER LV = LOW VOLTAGE LM = LOW VOLTAGE MASTER PB= PUSH BUTTON STATION T = TIMER OPERATED	2 = DOUBLE POLE 4 = FOUR-WAY K = KEY OPERATED P = WITH PILOT LIGH RC= REMOTE CONTROL WP= WEATHER PROOF Mo= OCCUPANCY SENSOR
$\bigcirc$	LIGHT FIXTURE, SURFACE MOUNT	TED FLUORESCENT, 1'x4'

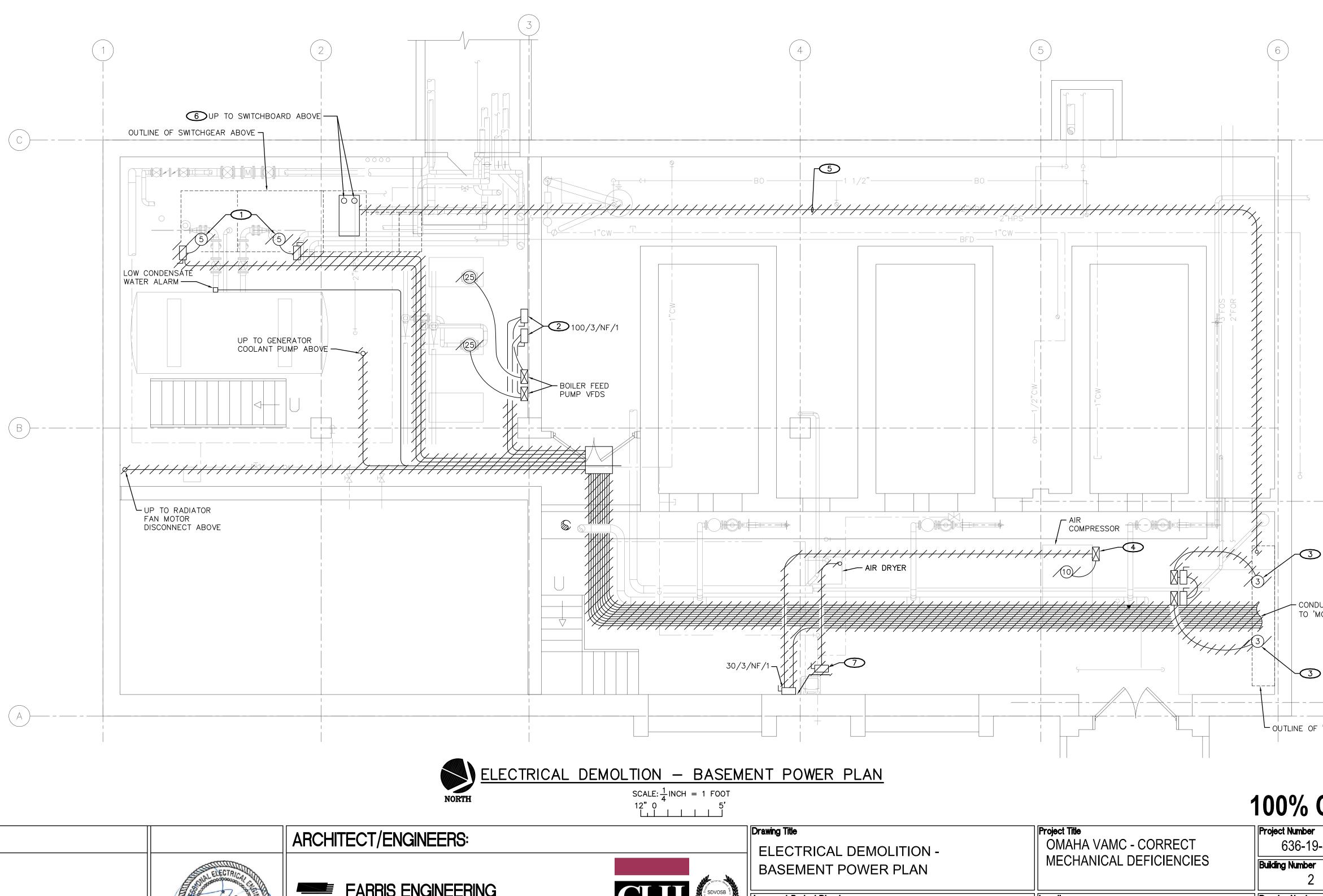
							100%	CD S	SUB
	Drawing Title ELECTRICAL - S	SYMBOL LEGE	ND	Project Title OMAHA VAMO			Project Number 636-1		
	AND GENERAL			MECHANICAL	. DEFICIEN(	CIES	<b>Building Numbe</b> 2	r ) -	] Co ] an
Calvin L. Hinz	Approved: Project Director			Location OMAHA, N	IE		Drawing Numbe		] <b>M</b> a
к с н і т є с т s, рс. 25 North 200th Street NO: 18-013 5 orn, Nebraska 68022 (402) 291-6941				<b>Date</b> 05-14-2021	Checked DCL	Drawn SCT	2EG	of X	Ċ
6		7		8			9		

А

ENTS OF LIGHTING FIXTURES TECTURAL REFLECTED CEILING
TWO LAMPS SHALL HAVE TWO SWITCH AND INNER LAMP(S)
SHALL HAVE NO MORE THAN SUIT HOMERUN SHALL HAVE A NT GROUNDING CONDUCTOR.
INT VOLTAGES AND TYPES OF RING DEVICES SHALL HAVE
NG FIXTURES, WIRING PLANS TO BE REMOVED THE AREA OF WORK HIN THE WORK AREA,
RENT PROTECTIRVE DEVICE
WIRING OF ALL TYPES, OR R RE-USE, IN COMPLIANCE
ED, ALL CONDUITS AND OVATED AREAS AND SERVICING
CD SUBMITTAL
19-301 Office of
2 ber 2 ber Management
G101
of X



			NORTH ELE	CTRICAL	DEMOLTION – SCALE: 1/4 INCH 12" 0
		ARCHIT	ECT/ENGINEERS:		
	DEMINIS C. DEMINIS C. DEMINI		FARRIS ENGINEERING omaha   lincoln   sidney   colorado springs farris-usa.com FEI #202013		Calvin L. Hinz A R C H LT E C T S, RC. 3705 North 200th Street Elkhorn, Nebraska 68022 (402) 291-6941
3	4		5		6



- GENERAL ELECTRICAL NOTES A. A MINIMUM OF 1 CONDENSATE PUM OIL PUMP SHALL REMAIN OPERABLE INDIVIDUAL EQUIPMENT CUT OVER
- WITH OWNERS REPRESENTATIVES. B. WIRE AND CONDUIT TO BE REMOVED LOADS TO POWER SOURCE.

### ELECTRICAL KEYNOTES

$\bigcirc$	REMOVE CONNECTION TO EXISTING
2	REMOVE CONNECTION TO EXISTING
3	REMOVE CONNECTION TO EXISTING
4	PROVIDE TEMPORARY AIR COMPRE AIR COMPRESSOR IS ROUTED TO I
5	REMOVE EXISTING FEEDER (WIRE A
6	EXISTING PULLBOX TO REMAIN. P REMOVED.
	DEMOVE & DOLE SWITCH WILLOU S

Calvin L. Hinz A R C HITE CT S, PC. 3705 North 200th Street Ikhorn, Nebraska 68022 (402) 291-6941 7

Approved: Project Director

8

05-14-2021

OMAHA, NE

Location

Date

9

Drawn

SCT

Checked

DCL

<u>NOTES</u>
MP, 1 BOILER FEED PUMP, AND 1 FUEL LE AT ALL TIMES. COORDINATE TO NEW POWER SOURCE/CONTROLLERS
ED IN ITS ENTIRETY FROM EXISTING
<u>S:</u> (O)

NG CONDENSATE TRANSFER PUMPS. NG BOILER FEED PUMP SAFETY SWITCHES. NG FUEL OIL PUMPS. RESSOR WHILE POWER SOURCE TO EXISTING NEW POWER SOURCE. AND CONDUIT) TO EXISTING 'MCC'. PROVIDE KO CLOSURE WHERE CONDUIT IS

7 REMOVE 2-POLE SWITCH WHICH SERVES AIR DRYER LOCATED ABOVE AIR COMPRESSOR SAFETY SWITCH.

В

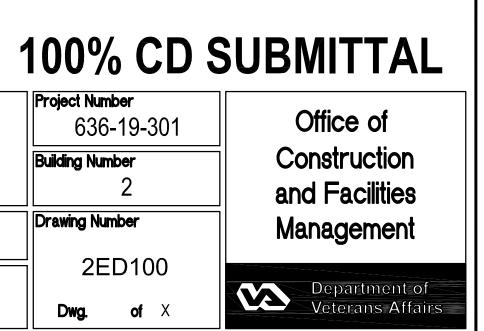
— – — (В)

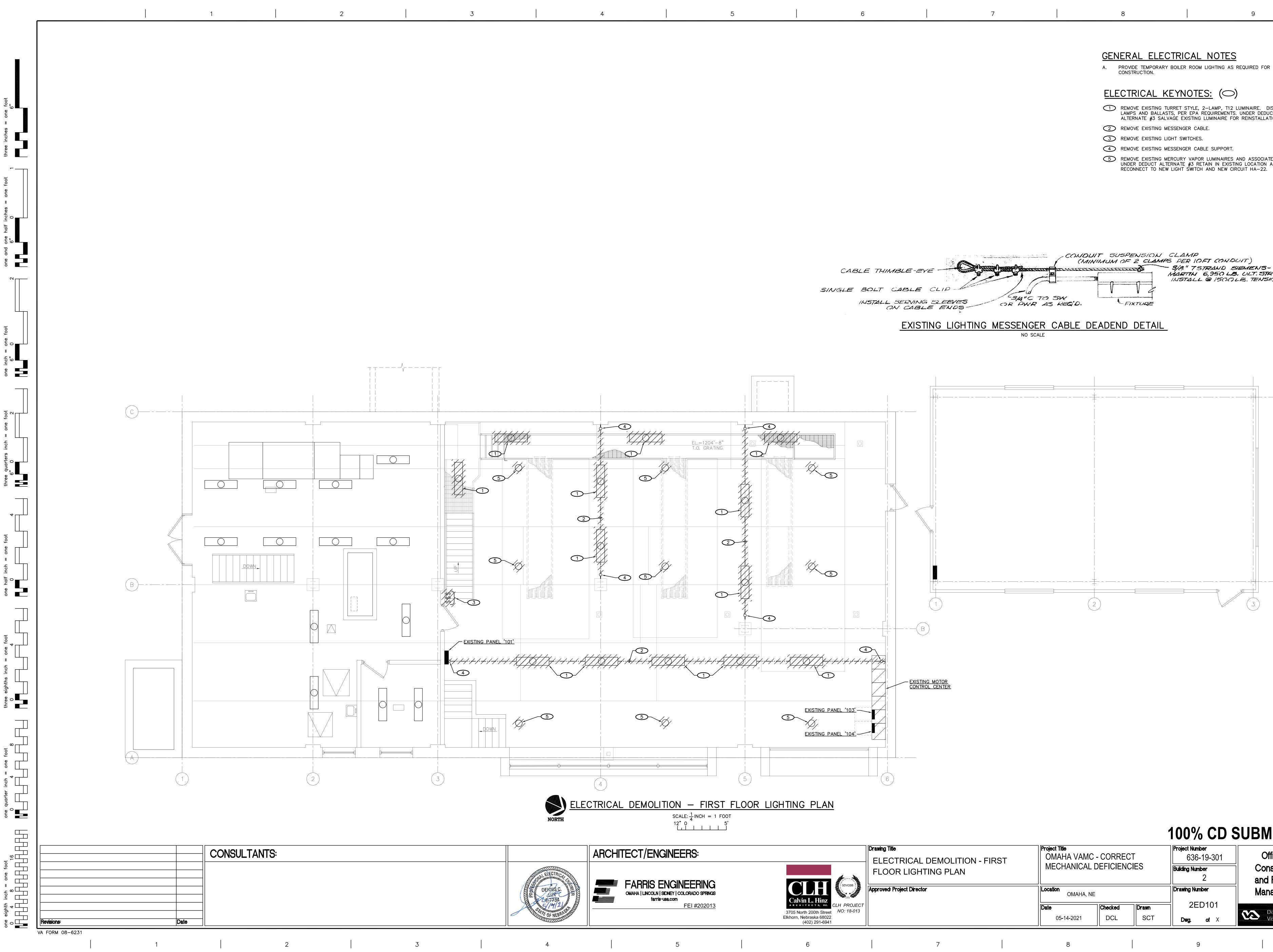
-3 OIL PUMP S

- CONDUITS UP TO 'MCC' ABOVE

3 OIL PUMP N

LOUTLINE OF 'MCC' ABOVE





G:\2020\202013\CAD\Electrical\202013\_2ED101.dwg 7ED101 5/14/21 9:40am sct

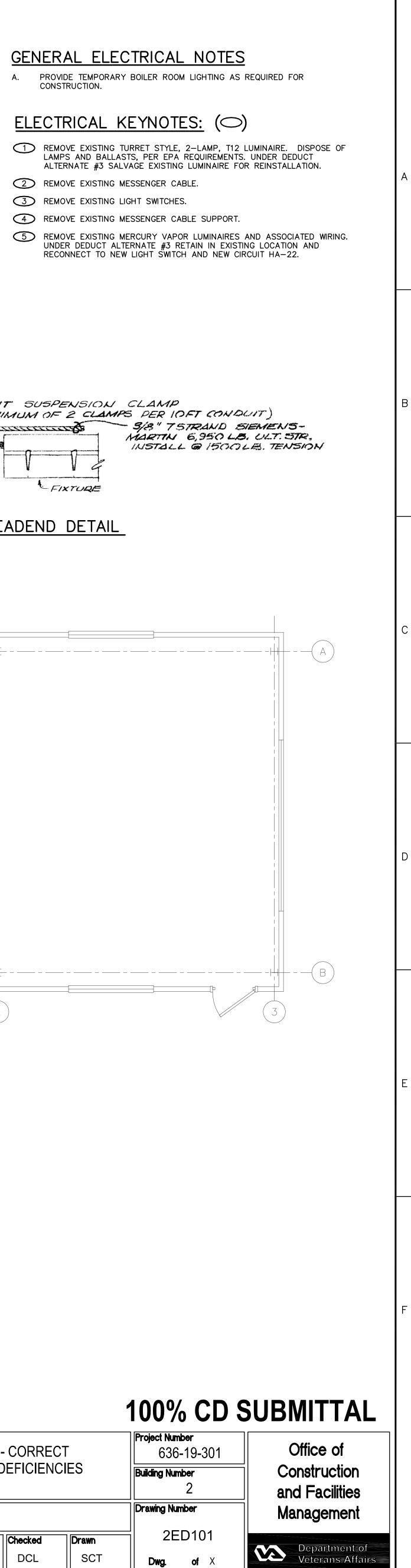
	8	

### GENERAL ELECTRICAL NOTES

	REMOVE EXISTING TURRET STYLE, LAMPS AND BALLASTS, PER EPA ALTERNATE #3 SALVAGE EXISTING
2	REMOVE EXISTING MESSENGER CA
3	REMOVE EXISTING LIGHT SWITCHES

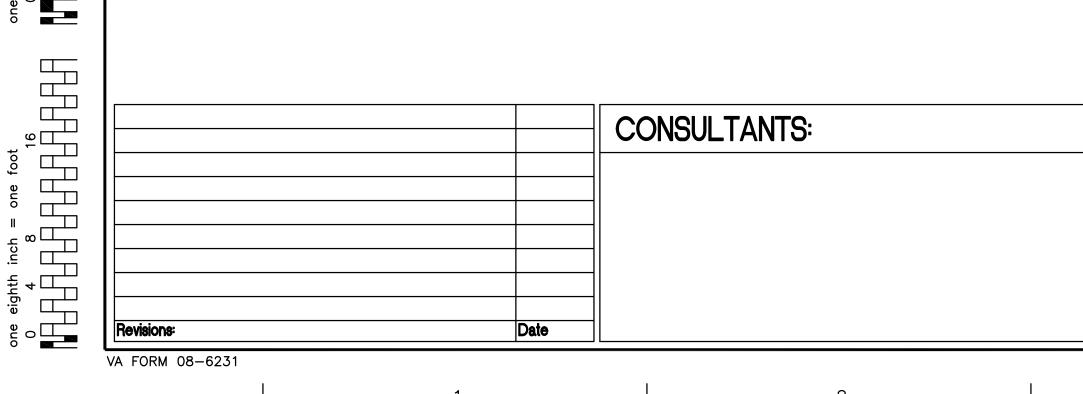
		Project Title OMAHA VAMC ·	Project Title OMAHA VAMC - CORRECT MECHANICAL DEFICIENCIES			
John Salara and	ELECTRICAL DEMOLITION - FIRST					
Calvin L. Hinz	Approved: Project Director	Location OMAHA, NE			Drawing Number	
CALVIII L., FIIIIZ I.R.C.H.I.T.E.C.T.S, P.C. 05 North 200th Street norn, Nebraska 68022 (402) 291-6941		<b>Date</b> 05-14-2021	Checked DCL	Drawn SCT	2ED101 Dwg. of X	
6	7	8			9	



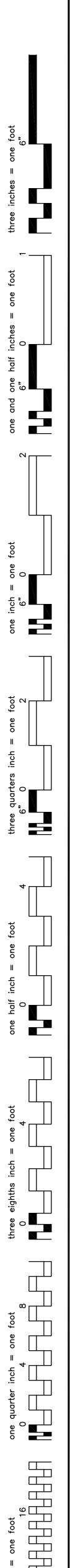


EXISTING MOTOR CONTROL CENTER 'MCC' - FPE (FEDERAL PACIFIC) 500A 480Y/277 70A 20A GE GE 30A 100A GE 15A EXHAUST BOILER FEED 50A GE #5 SPACE 30A PANEL | PANEL | PANEL | 103 VIA | 104 | XEMP FAN EF—1 PUMP FW-1 PARKING B-3 LOT COM-OIL PUMP WEST NORTH | 5HP | 5HP XFMR 25HP LIGHTS | PRESSOR RQ 15A 15A | 15A | #5 | SPACE | OIL PUMP | SOUTH | 5HP | CONDENSATE PUMP P-2 SOUTH 5HP SPACE  $\bigcirc$ START STOP R C START STOP PANEL 103 15A SPACE GEN. WATER PUMP 208Y/120 RQ 15A 50A GE 2HP #2 BOILER B-2 20 HP 15A j 15A OIL PUMP EAST 3HP SPARE SPARE Ì 15A RC UNIT START STOP RQ HEATER WH-1 15A 1HP HEAT CONDENSATE EXTRACT PUMP P-1 PANEL RG INCOMING 15A SERVICE 5HP RADIATOR START STOP RC MAIN C/B FAN 2@2HP 15A 30A AIR COMPRESSOR | #2 OIL PUMP WEST 3HP AC-1 5HP ) G RC 100A GE BOILER FEED START STOP START STOP PUMP FW-2 60A GE EAST BOILER B-1 BOILER 25HP 50A B-3 RQ 20HP (VFD) 25 HP RC START STOP

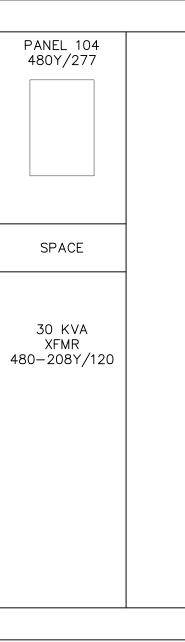
> EXISTING MOTOR CONTROL CENTER (TO BE REMOVED) NO SCALE



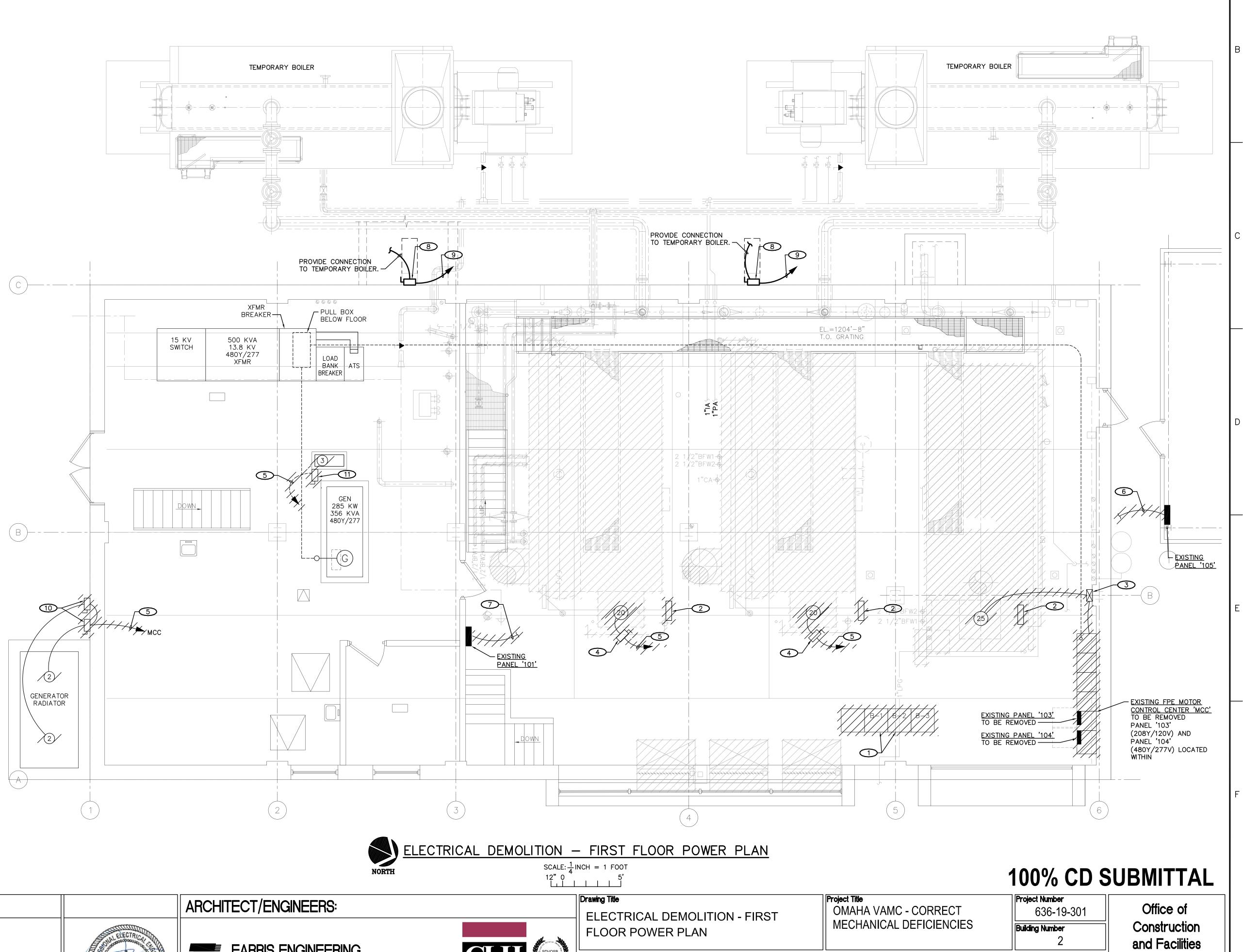
G: \2020\202013\CAD\Electrical\202013\_2ED201.dwg 7ED201 5/14/21 9:40am sct

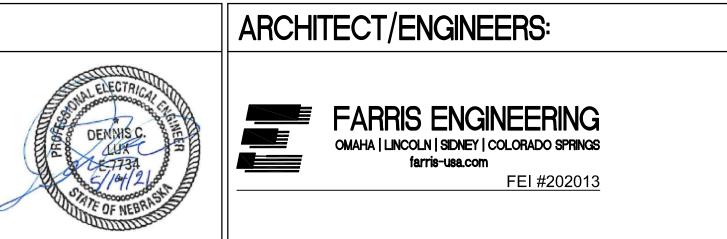










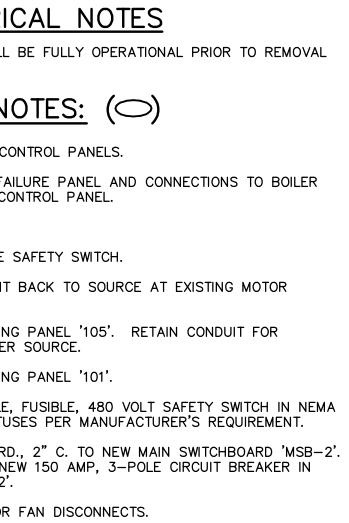


	0
GEN	NERAL ELECTRIC
A.	TEMPORARY BOILERS SHALL OF EXISTING MCC.
ELE	CTRICAL KEYN
$\bigcirc$	REMOVE EXISTING BOILER CO
2	REMOVE EXISTING FLAME FAIL AND ASSOCIATED BOILER CO
3	REMOVE EXISTING VFD.
(4)	REMOVE 100 AMP, 3-POLE S
5	REMOVE WIRE AND CONDUIT CONTROL CENTER.
6	REMOVE FEEDER TO EXISTING CONNECTION TO NEW POWER
$\overline{7}$	REMOVE FEEDER TO EXISTING
8	PROVIDE 200 AMP, 3-POLE, 1 ENCLOSURE. PROVIDE FUS
9	PROVIDE 3-#1/0, 1-#6 GRD PROVIDE CONNECTION TO NE NEW SWITCHBOARD 'MSB-2'.
10	REMOVE EXISTING RADIATOR

8

7

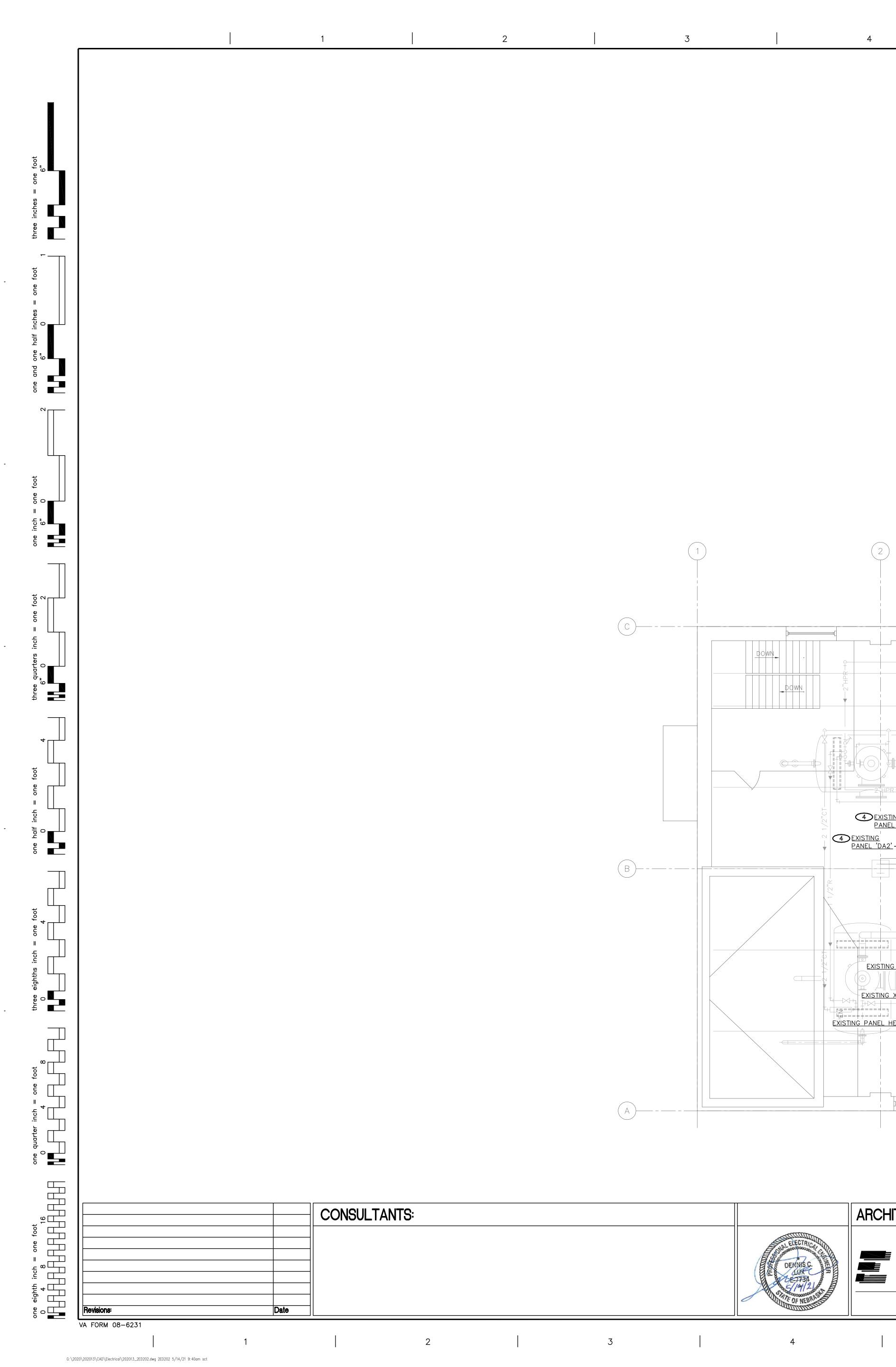
SCALE: <u>1</u> 12" 0 	NCH = 1 FOOT 5'					100% CD
	Drawing Title ELECTRICAL DEMOLITION	Project Title OMAHA VAMC - CORRECT MECHANICAL DEFICIENCIES			Project Number 636-19-301	
	FLOOR POWER PLAN				Building Number 2	
Calvin L. Hinz	Approved: Project Director		OMAHA, NE			Drawing Number
ARCHITECTS, P.C. CLH PROJECT 3705 North 200th Street NO: 18-013 Elkhorn, Nebraska 68022			Date 05-14-2021	Checked DCL	Drawn SCT	2ED201
(402) 291-6941						Dwg. of X
6	7		8			9

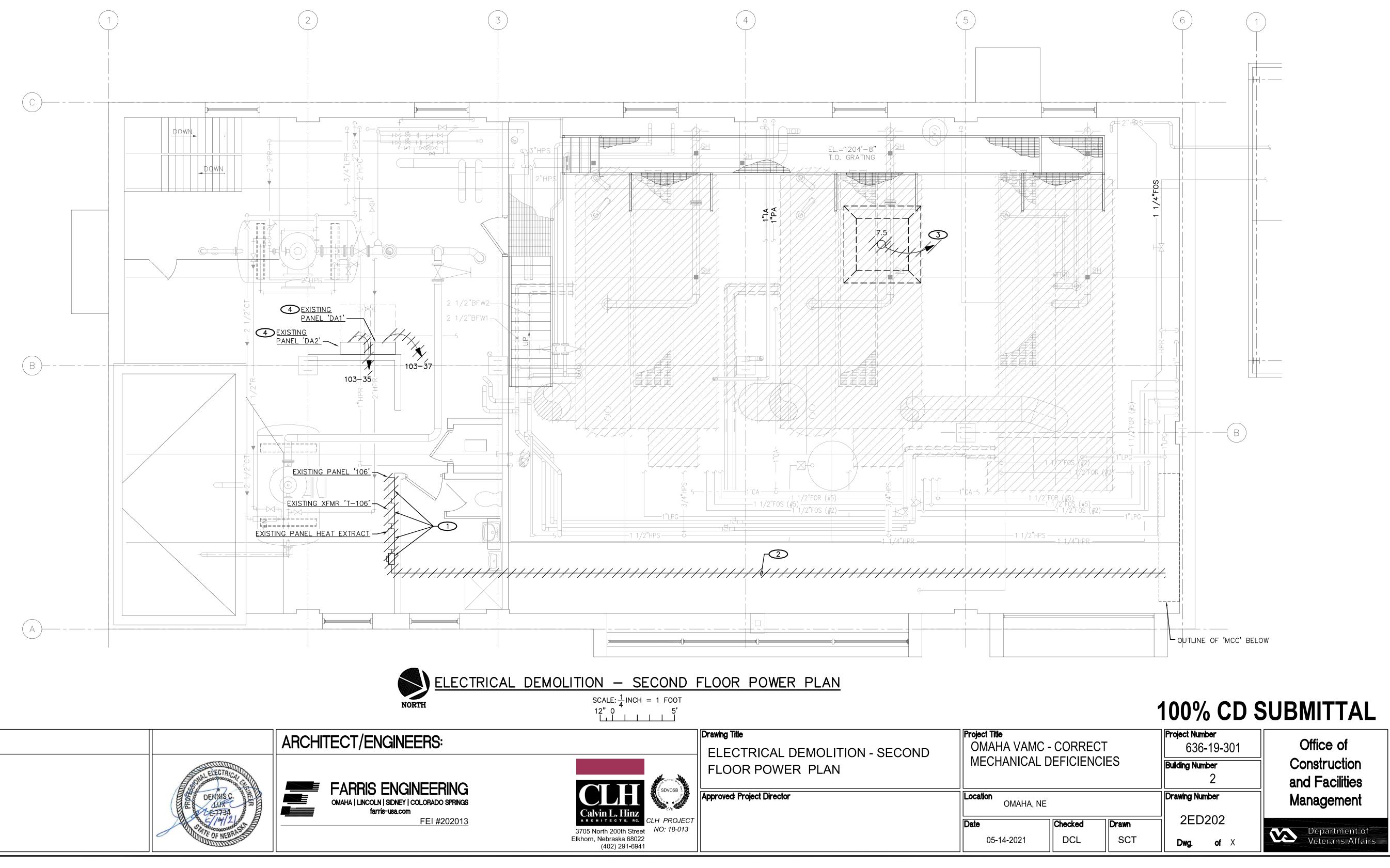


11 REMOVE EXISTING GENERATOR COOLANT PUMP DISCONNECT.

Management

**Department of** Veterans Affairs





## ELECTRICAL KEYNOTES: $(\bigcirc)$

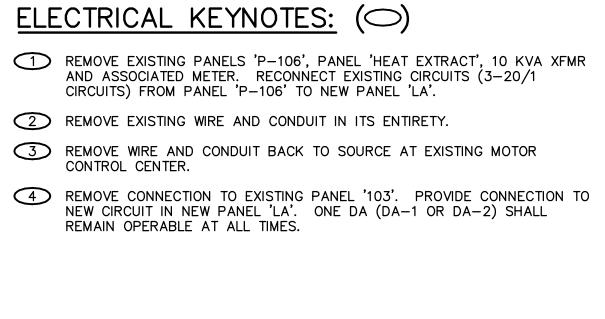
1	REMOVE EXISTING PANELS 'P-106', AND ASSOCIATED METER. RECONN CIRCUITS) FROM PANEL 'P-106' TO
2	REMOVE EXISTING WIRE AND CONDU

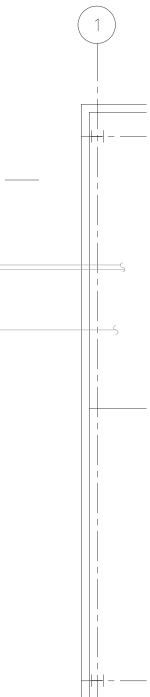
= 1 F001 5'	

1	0	0	%
	-	-	

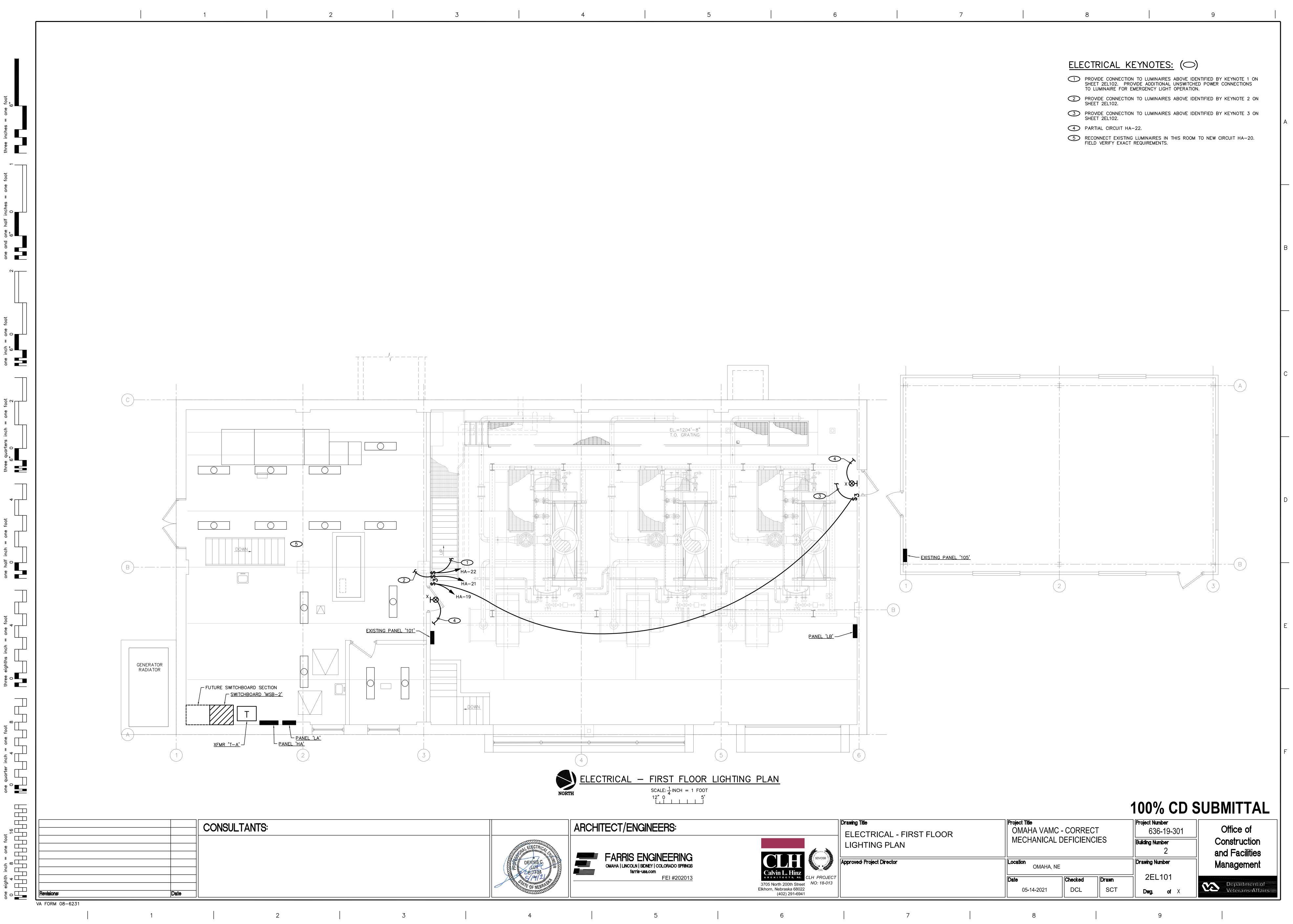
							/ L
	Drawing Title ELECTRICAL DEMOLI FLOOR POWER PLAN	Project Title OMAHA VAMO MECHANICAL	Project Number 636-19-30 Building Number				
Calvin L. Hinz ARGHITECTS. PC. 3705 North 200th Street Elkhorn, Nebraska 68022 (402) 291-6941	Approved: Project Director		Date 05-14-2021	E Checked DCL	Drawn SCT	Drawing Number 2ED202 Dwg. of	
6	7		8			9	

5





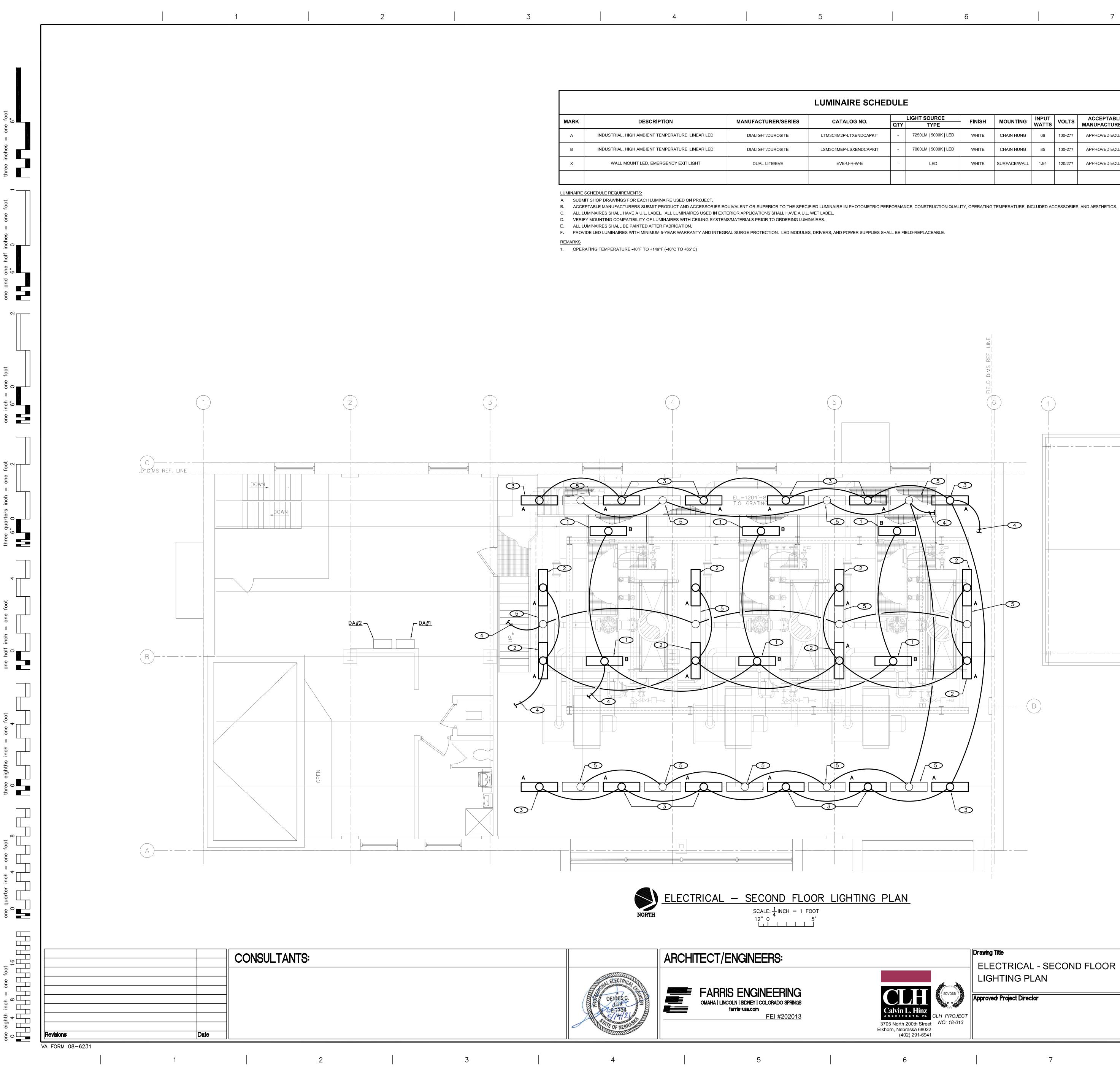




G:\2020\202013\CAD\Electrical\202013\_2EL101.dwg 2EL101 5/14/21 9:41am sct

	ELECTRICAL - FIRST FLOOR LIGHTING PLAN				Building Nu
Ivin L. Hinz	Approved: Project Director	OMAHA, NE	Ē		Drawing N
CHITECTS, P.C. CLH PROJECT		Date	Checked	Drawn	≓  2El
North 200th Street NO: 18-013 n, Nebraska 68022 (402) 291-6941		05-14-2021	DCL	SCT	Dwg.
		_		1	





G:\2020\202013\CAD\Electrical\202013\_2EL102.dwg 2EL101 5/14/21 9:53am sct

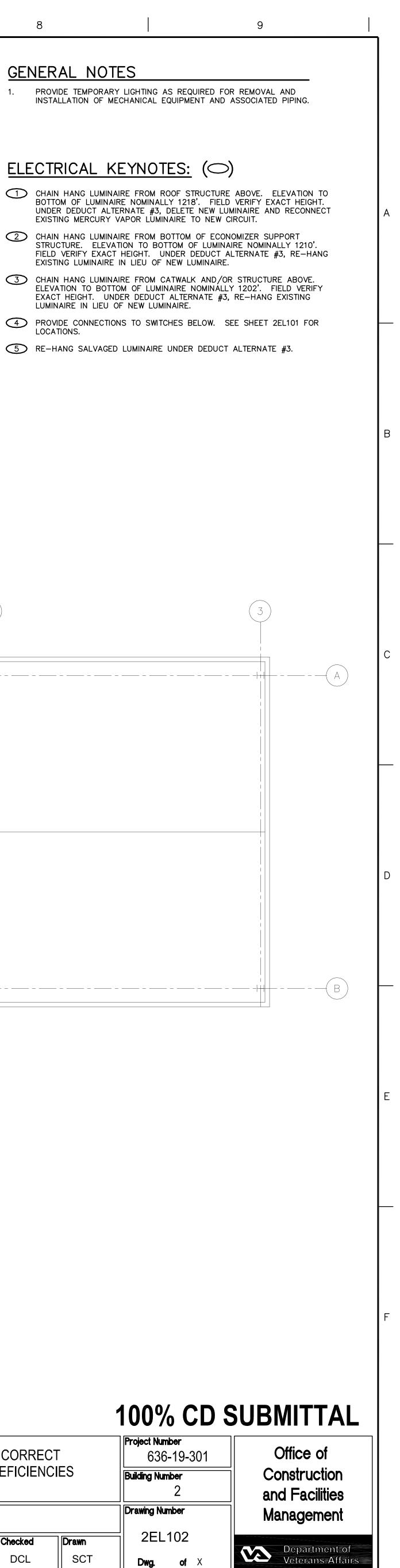
	LUMINAIRE SCHEDULE										
MARK	DESCRIPTION	MANUFACTURER/SERIES	CATALOG NO.	QTY	LIGHT SOURCE TYPE	FINISH	MOUNTING	INPUT WATTS	VOLTS	ACCEPTABLE MANUFACTURERS	REMARKS
A	INDUSTRIAL, HIGH AMBIENT TEMPERATURE, LINEAR LED	DIALIGHT/DUROSITE	LTM3C4M2P-LTXENDCAPKIT	-	7250LM   5000K   LED	WHITE	CHAIN HUNG	66	100-277	APPROVED EQUAL	1
В	INDUSTRIAL, HIGH AMBIENT TEMPERATURE, LINEAR LED	DIALIGHT/DUROSITE	LSM3C4MEP-LSXENDCAPKIT	-	7000LM   5000K   LED	WHITE	CHAIN HUNG	85	100-277	APPROVED EQUAL	1
х	WALL MOUNT LED, EMERGENCY EXIT LIGHT	DUAL-LITE/EVE	EVE-U-R-W-E	-	LED	WHITE	SURFACE/WALL	1.94	120/277	APPROVED EQUAL	

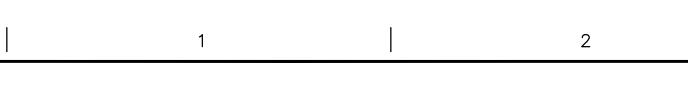
GENERAL NOTES

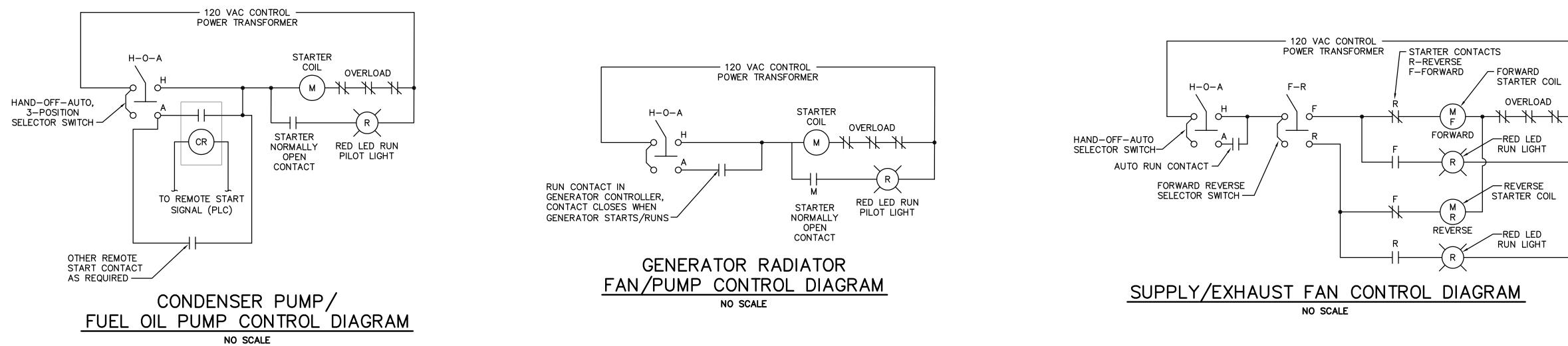
ELE	CTRICAL KEYNOTE
1	CHAIN HANG LUMINAIRE FROM ROO BOTTOM OF LUMINAIRE NOMINALLY UNDER DEDUCT ALTERNATE #3, DE EXISTING MERCURY VAPOR LUMINAI
2	CHAIN HANG LUMINAIRE FROM BOT STRUCTURE. ELEVATION TO BOTTO FIELD VERIFY EXACT HEIGHT. UND EXISTING LUMINAIRE IN LIEU OF NE
3	CHAIN HANG LUMINAIRE FROM CAT ELEVATION TO BOTTOM OF LUMINAI EXACT HEIGHT. UNDER DEDUCT AI LUMINAIRE IN LIEU OF NEW LUMINA
4	PROVIDE CONNECTIONS TO SWITCHE LOCATIONS.
$\overline{(5)}$	RE-HANG SALVAGED LUMINAIRE UN

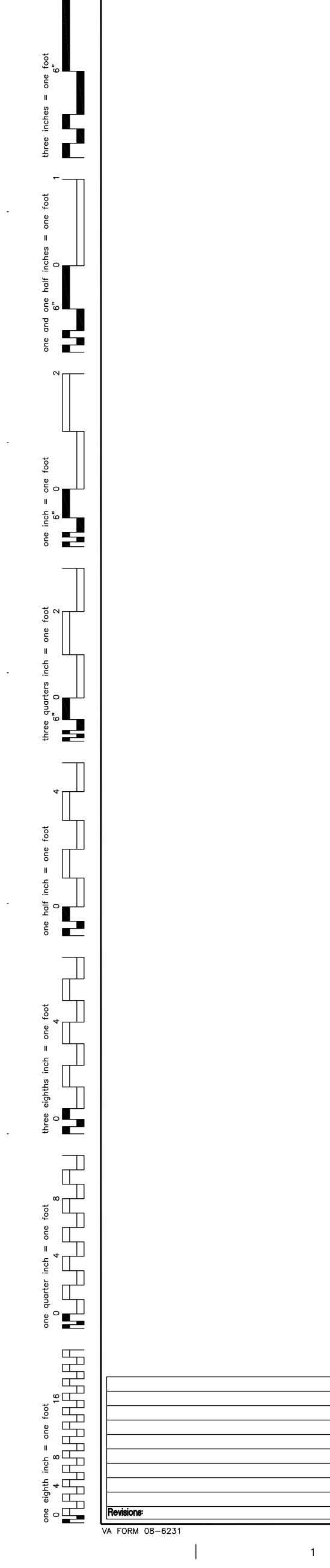
$\begin{pmatrix} 1 \end{pmatrix}$	$\left(\begin{array}{c}2\end{array}\right)$
   1  +++	

	Drawing Title ELECTRICAL - SECOND FL LIGHTING PLAN	Project Title OMAHA VAMC MECHANICAL			Project Number 636-19-301 Building Number				
Calvin L. Hinz R C H I T E C T S, RC. D5 North 200th Street NO: 18-013	Approved: Project Director	Location OMAHA, NI Date	Drawing Number 2EL102						
orn, Nebraska 68022 (402) 291-6941		05-14-2021	DCL	SCT	Dwg.	of X			
6	7	8			9				

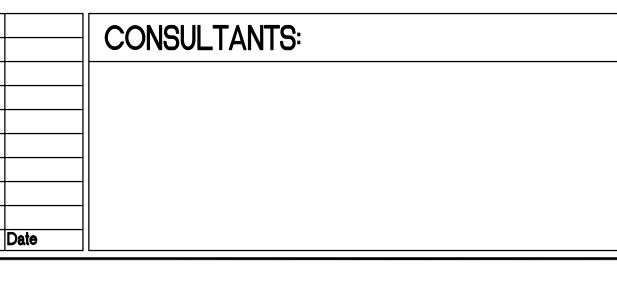




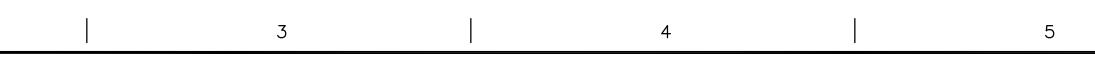


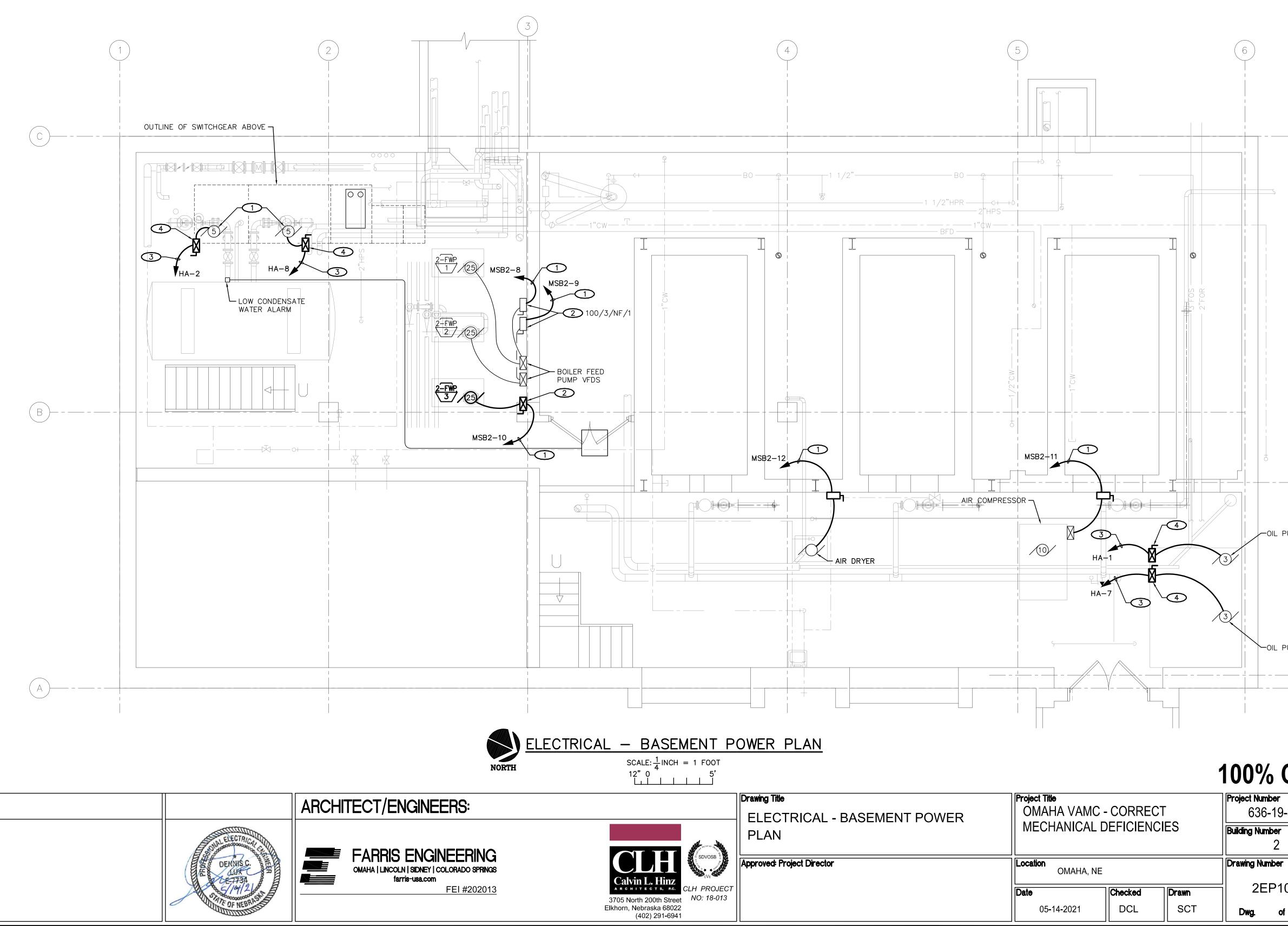


G:\2020\202013\CAD\Electrical\202013\_2EP100.dwg 7ED200 5/14/21 9:41am sct



2





	GENERAL ELE
VAC CONTROL R TRANSFORMER STARTER CONTACTS R-REVERSE F-FORWARD FORWARD STARTER COIL OVERLOAD	A. A MINIMUM OF 1 O OIL PUMP SHALL INDIVIDUAL EQUIPM WITH OWNERS REF
R FORWARD RED LED RUN LIGHT	ELECTRICAL
	PROVIDE CONNECT     CONDUIT REQUIREN
F M R STARTER COIL	<ul><li>PROVIDE NEW VFD</li><li>PROVIDE 3-#10, 1</li></ul>

ELE	CTRICAL	KEYNOTE
	PROVIDE CONNEC CONDUIT REQUIRE	TION TO MSB2. S EMENTS.
2	PROVIDE NEW VF	D.
3	PROVIDE 3-#10,	1-#10 GRD., 3/4
4	COMBINATION ST	IZE 1, FULL VOLTA ARTER WITH STOP, VAC CONTROL PO

6

7

8

05-14-2021

Date

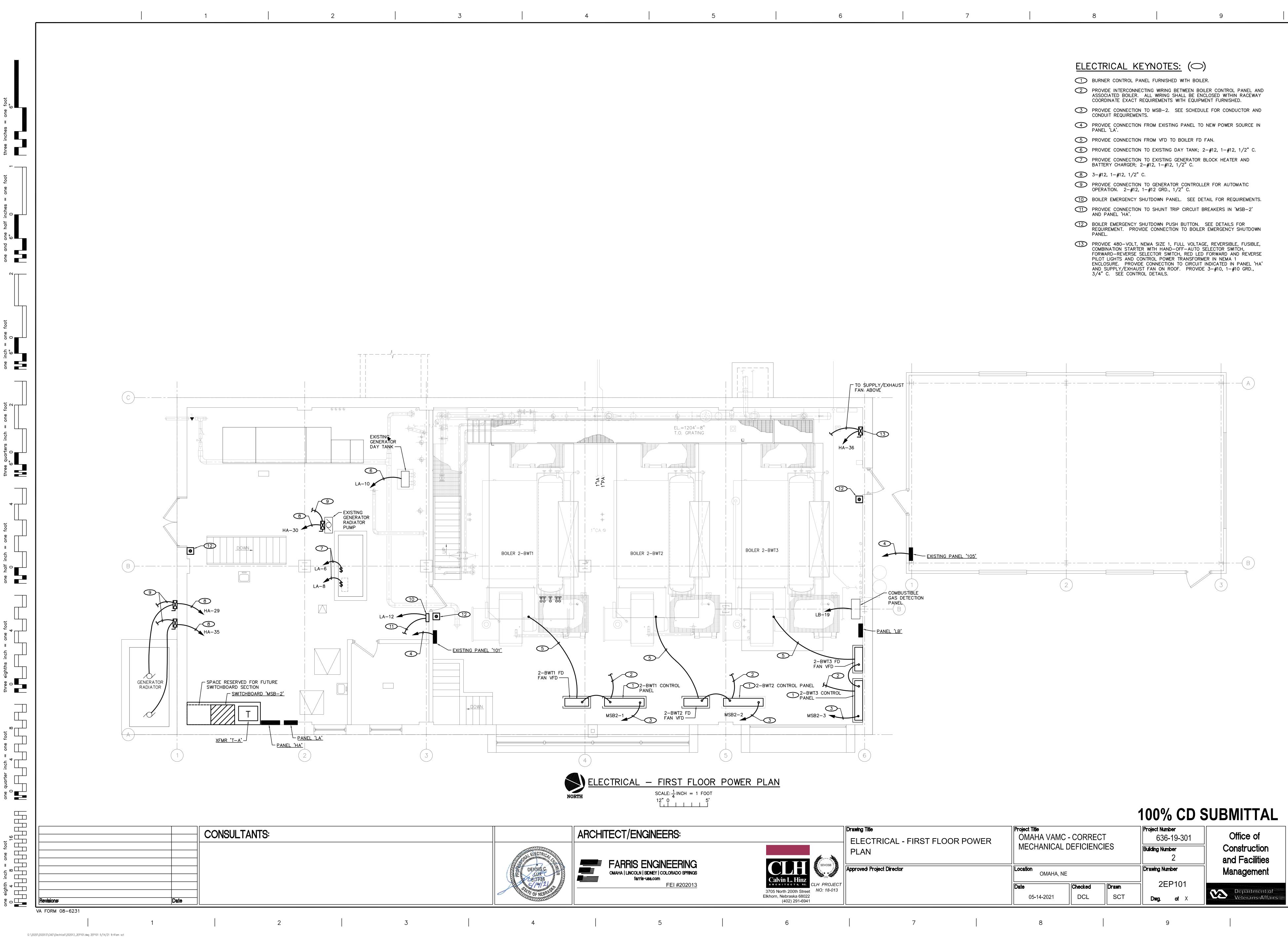
9

Dwg. of X

SCT

DCL

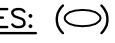


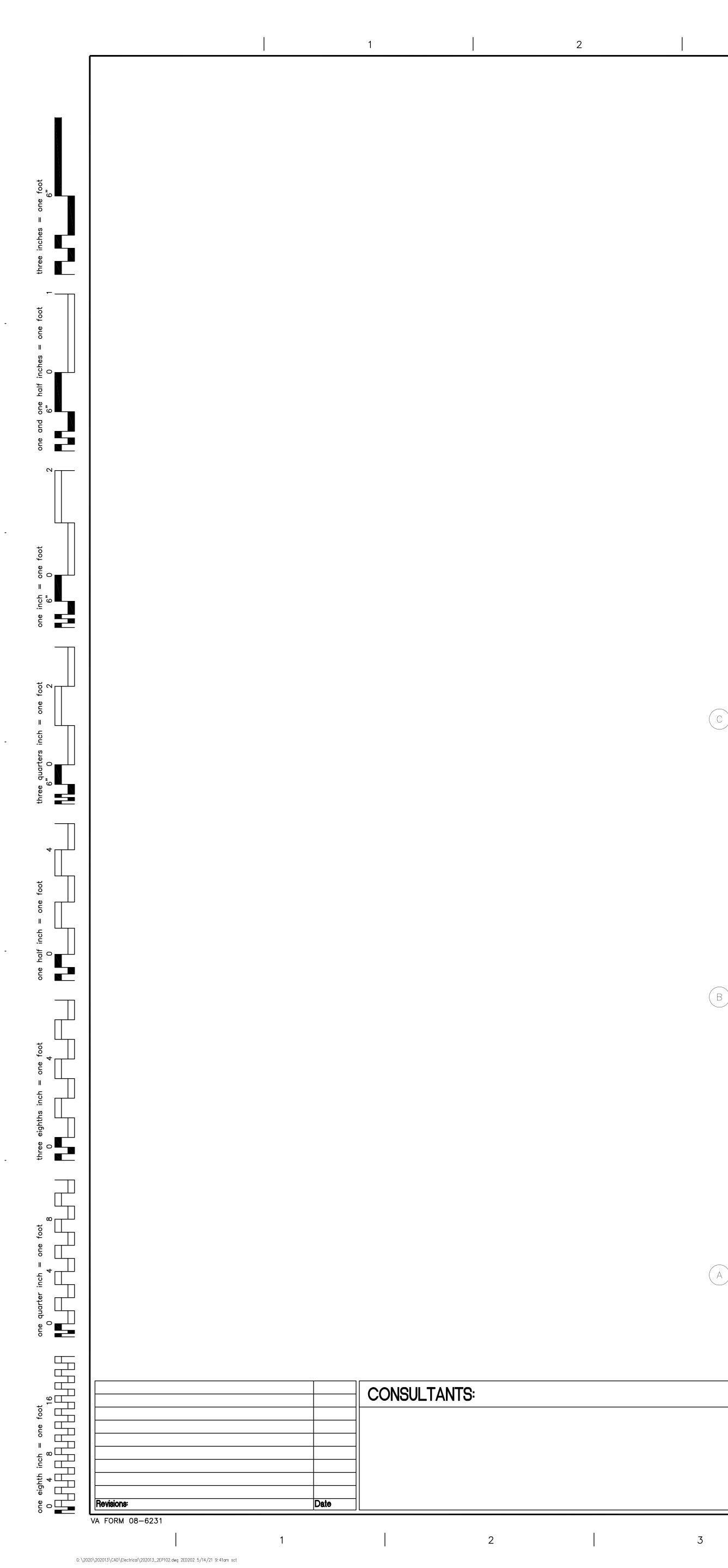


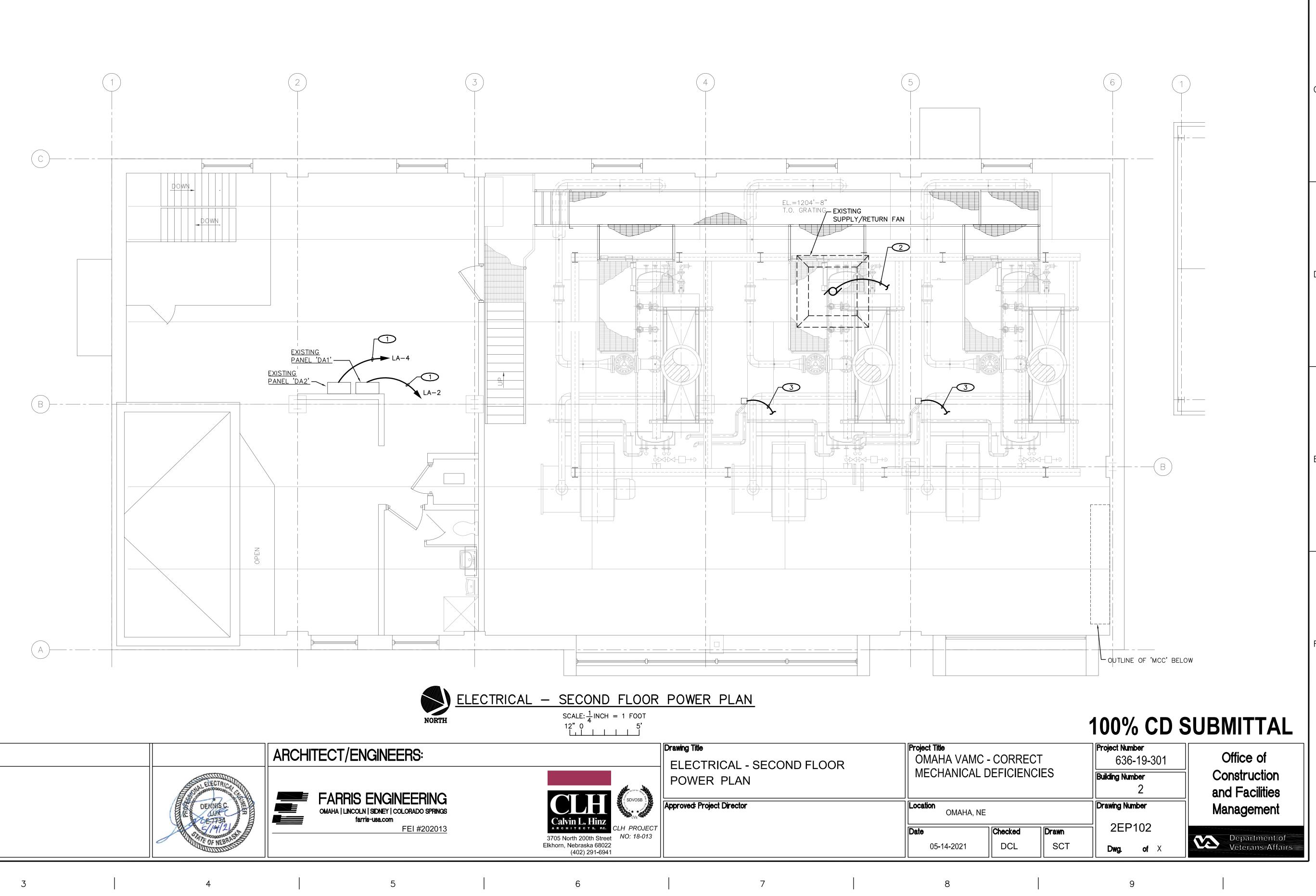
	8

$\bigcirc$	BURNER CONTROL PANEL FURNISH
2	PROVIDE INTERCONNECTING WIRING ASSOCIATED BOILER. ALL WIRING COORDINATE EXACT REQUIREMENT
3	PROVIDE CONNECTION TO MSB-2. CONDUIT REQUIREMENTS.
4	PROVIDE CONNECTION FROM EXIS <sup>®</sup> PANEL 'LA'.
5	PROVIDE CONNECTION FROM VFD

					100 /0			
(c.ter.ex)	Drawing Title ELECTRICAL - FIRST FLOOR POWER PLAN		Project Title OMAHA VAMC - CORRECT MECHANICAL DEFICIENCIES					
Calvin L. Hinz	Approved: Project Director	Location OMAHA, NE			Drawing Numb			
R C H I T E C T S, PC.CLH PROJECT05 North 200th StreetNO: 18-013		Date	Checked	Drawn	=  2EP			
orn, Nebraska 68022 (402) 291-6941		05-14-2021	DCL	SCT	Dwg.			
				1				
6	7	8			9			



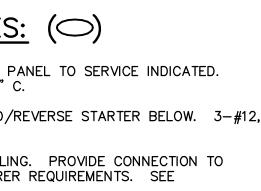


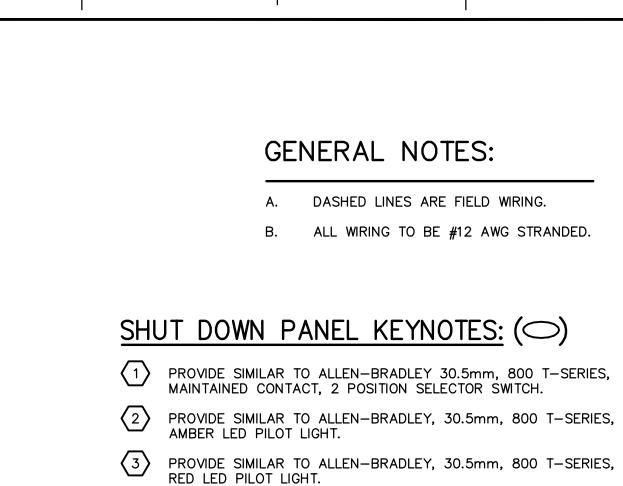


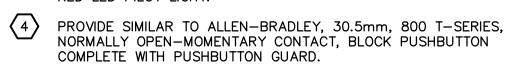
8	

### ELECTRICAL KEYNOTES: $(\bigcirc)$

- 1 RECONNECT EXISTING DA CONTROL PANEL TO SERVICE INDICATED. PROVIDE 2-#12, 1-#12 GRD., 3/4" C.
- 2 PROVIDE CONNECTION TO FORWARD/REVERSE STARTER BELOW. 3-#12, 1-#12 GRD., 3/4" C.
- COMBUSTIBLE GAS SENSOR AT CEILING. PROVIDE CONNECTION TO CONTROL PANEL PER MANUFACTURER REQUIREMENTS. SEE SPECIFICATIONS.



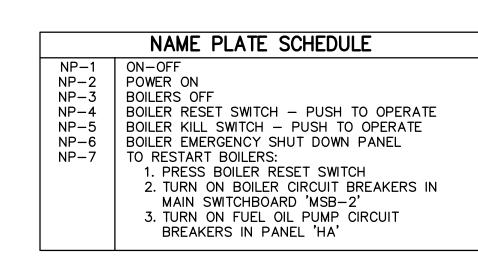




- 5 PROVIDE SIMILAR TO ALLEN-BRADLEY, 30.5mm, 800 T-SERIES, NORMALLY OPEN-MOMENTARY CONTACT, RED MUSHROOM HEAD AND PUSHBUTTON GUARD. PROVIDE SIGN ABOVE PUSHBUTTON STATING "BOILER KILL SWITCH-PUSH TO OPERATE".
- 6 4-POLE 120 VAC COIL LATCHING RELAY. CONTACTS SHOWN IN "UNLATCHED" POSITION.
- 7 120 VAC, SELF-RESETTING, EMERGENCY GAS SHUT OFF VALVE (VALVE PROVIDED BY MECHANICAL).
- 8 CIRCUIT BREAKER SHUNT TRIP. THE SHUNT TRIP PROVIDES REMOTE CONTROLLED TRIPPING OF THE CIRCUIT BREAKER. THE SHUNT TRIP CONSISTS OF AN INTERMITTENT RATED 120 VAC SOLENOID WITH A TRIP PLUNGER AND CUTOFF SWITCH.  $\langle 9 \rangle$  FIELD MOUNTED DEVICE.
- NEMA 12 ENCLOSURE, SIZE AS REQUIRED

 $\square$ 

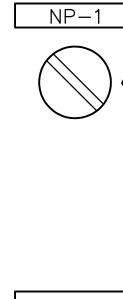
120 VAC, SELF-RESETTING, EMERGENCY PROPANE SHUT-OFF VALVE (VALVE PROVIDED BY MECHANICAL).





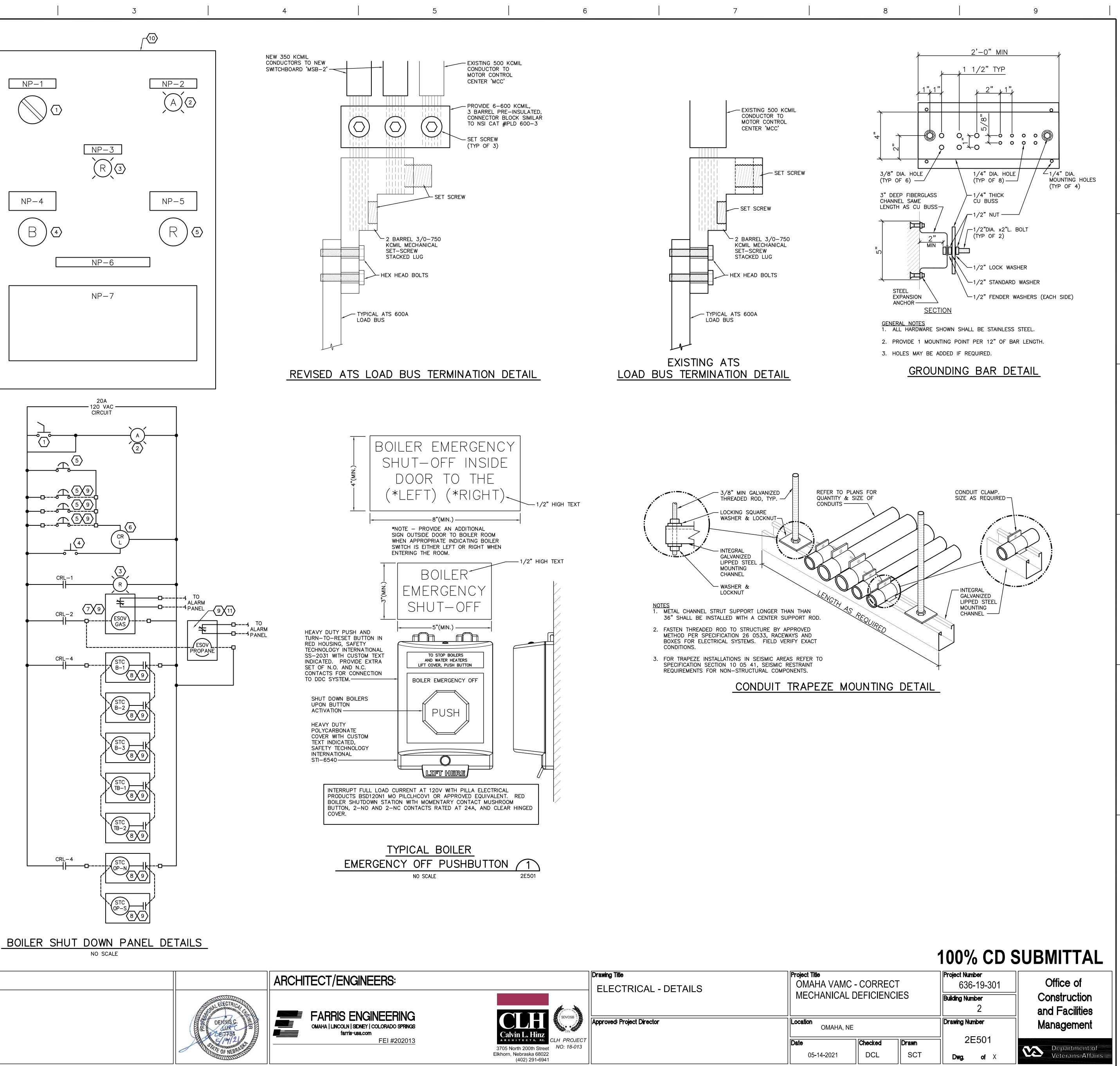
				CONSULTA	NTS:	
	<b>sions</b> :		Date			
VA FC	DRM 08-6231					
		1			2	2

G: \2020\202013\CAD\Electrical\202013\_2E501.dwg E-501 5/14/21 9:40am sct









4

5

6

| 7

8

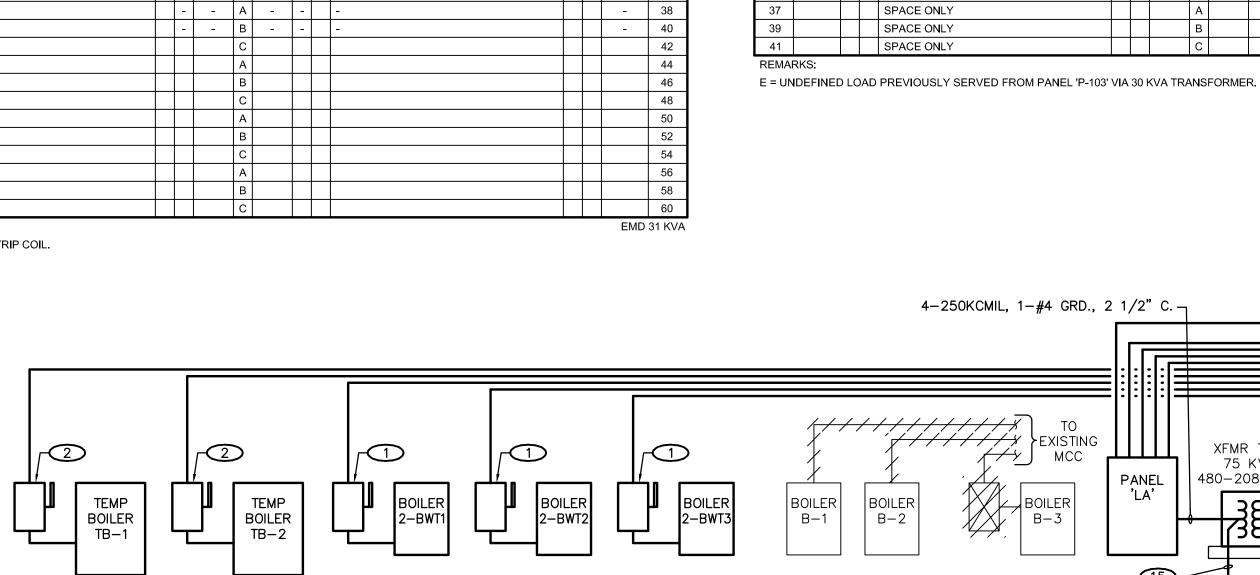
9





				HASE, 4 WIRE	Ν	E	W P		NEL	Η	Α		AIC F	RAT	ING: 65	,00 <sup>,</sup>
SURI	AMP FACE M	ou	NT		R	1					R		R	L		1
CCT NO	LOAD V.A.	T S	R E C	LOAD DESCRIPTION	E M	Р	AMP SIZE	ø	AMP SIZE	Р	E M	LOAD DESCRIPTION	E C	TS	LOAD V.A.	C (   N
1	3823			OIL PUMP OP-N 3HP	S	3	20	А	20	3		CONDENSATE PUMP 2-CTP1 5HP			6055	
3	-			-		-	-	В	-	-		-			-	4
5	-			-		-	-	С	-	-		-			-	
7	3823			OIL PUMP OP-S 3HP	S	3	20	А	20	3		CONDENSATE PUMP 2-CTP2 5HP			6055	;
9	-			-		-	-	в	-	-		-			-	1
11	-			-		-	-	С	-	-		-			-	1
13				SPARE		3	20	А	20	3		SPARE				1
15	-			-		-	-	В	-	-		-			-	1
17	-			-		-	-	С	-	-		-			-	1
19	880	X		BOILER RM EAST/WEST LIGHTS		1	15	Α	20	1		XFMR RM LIGHTS				2
21	587	X		BOILER RM LOW CENTER LIGHTS		1	15	В	15	1		BOILER RM CENTER LIGHTS		X	574	2
23						1	20	С	20	1						2
25						1	20	А	20	1						2
27						1	20	В	20	1						2
29	2700			RADIATOR FAN 1		3	20	С	20	3		RADIATOR PUMP			2700	3
31	-			-		-	-	А	-	-		-			-	3
33	-			-		-	-	в	-	-		-			-	3
35	2700			RADIATOR FAN 2		3	20	С	20	3		ROOF SUPPLY/EXHAUST FAN			8764	3
37	-			-		-	-	А	-	-		-			-	3
39	-			-		-	-	В	-	-		-			-	4
41								С								4
43								А								4
45								В								4
47								С								4
49								А								5
51								В								5
53								С								5
55								А								5
57								В								5
59								С								6

REMARKS: S = PROVIDE WITH 120 VAC SHUNT TRIP COIL.



100	08 VOL AMP ACE M	M.	L.O	HASE, 4 WIRE	XIS	ST	ING	P	ANI	ΞL	. 1		AIC
CCT NO	LOAD V.A.	L T S	R E C	LOAD DESCRIPTION	R E M	Р	AMP SIZE	ø	AMP SIZE	Ρ	R E M	LOAD DESCRIPTION	
1				OFFICE AC	1	1	20	A	20	1	1	ROOF	
3				PHONE HORN	1	1	20	В	15	1	1	CHEMICAL FEED PUMP	
5				OFFICE LIGHT & DOOR BELL	1	1	15	С	20	1	1	CHEMICAL FEED PUMP	
7				EAST HALF 2-FLOOR RESTROOMS	1	1	15	A	20	1	1	BOILER FLOOR WEST	
9				WEST HALF 2-FLOOR LIGHTS	1	1	15	В	20	1	1	FUEL OIL PUMP RM	
11				WALL RECP 2 FLOOR	1	1	15	С	20	2	1	DRILL PRESS	
13				TUNNEL LIGHTS	1	1	20	A	-	-		-	
15		X		BASEMENT STORAGE RM	1	1	20	В	20	1	1	WALL PLUGS BEHIND BOILERS	
17		X		BASEMENT STORAGE RM	1	1	20	С	20	1	1	FIRE ALARM	
19			Х	BOILER FEED PUMP & FUEL PUMP RM	1	1	20	Α	50	1	1	WATER TESTING & HOT PLATES	
21			Х	BOILER FEED PUMP RM.	1	1	20	В	20	1	1	TRANSFORMER RM & PARK TIMER	
23			X	OFFICE	1	1	20	С	20	1	1	PLUG BEHIND GENERATOR	

1 = RELOCATE EXISTING LOAD TO NEW PANEL.

277/4	7/480 VOLT, 3 PHASE, 4 WIRE AMP M.L.O.												AIC R	AIC RATING: 14,000A			
60 MOU	AMP NTED IN						-		-					-			
CCT NO	LOAD V.A.	L T S	RШC	LOAD DESCRIPTION	R E M	Р	AMP SIZE	ø	AMP SIZE	P	R⊔⊠	LOAD DESCRIPTION	R E C	L T S	LOAD V.A.	CC <sup>.</sup> NC	
1		Х		TRANSFORMER RM.	1	1	20	A			2	FRONT OF BOILER		X		2	
3		Х		BOILER ROOM MERCURY VAPOR	2	1	20	В			2	BACK OF BOILER		X		4	
5				SPARE		1	20	С				SPARE				6	
7				SPACE ONLY				A				SPACE ONLY				8	
9				SPACE ONLY				В				SPACE ONLY				10	
				SPACE ONLY				С				SPACE ONLY				12	

REMARKS: 1 = RELOCATE EXISTING LOAD TO NEW PANEL.

2 = DISCONNECT EXISTING LOAD AND REMOVE ALL ASSOCIATED WIRING/CONDUIT.

50		MA	۸IN	IASE, 3 WIRE BREAKER	EXIS	ST	ING	Ρ	ANE	EL	. 1	06	AIC F	RAT	ING: 10	,000/
CCT NO	LOAD V.A.	L T S	R E C	LOAD DESCRIPTION	R E M	Р	AMP SIZE	ø	AMP SIZE	Р	R E M	LOAD DESCRIPTION	R E C	т	LOAD V.A.	CCT NO
1				MAIN		50	2	Α	20	1		SPARE				2
3	-			-		-	-	В	20	1	1	UNDEFINED LOAD				4
5				SPARE		1	20	Α	20	1		SPARE				6
7				UNDEFINED LOAD	1	1	20	В	20	1		SPARE				8
9				UNDEFINED LOAD	1	1	20	Α	20	1		SPARE				10
11								В								12

1 = RELOCATE EXISTING LOAD TO NEW PANEL.

			CONSULT	ANTS:		
<b>Revisions</b> :		Date				
VA FORM 08-6231	1			2	3	

one eighth inch = one foot 0 4 8 16 B 16 B 16 B 16 B 16 B 16 B 16 B 16 C 16 C 16 C 16 C 16 C 16 C 16 C 16 C	one quarter inch = o 0 4 4	
	ne eighth inch = one foot 0  4  8  16 0  16	Revisions

G:\2020\202013\CAD\Electrical\202013\_2E601.dwg E-501 5/14/21 9:40am sct

1

	2								3								4				
	AIC	RAT	'ING: 65	,000A		250		MAIN	HASE, 4 WIRE BREAKER ED	N	E	W P		NEL	L	Α		AIC	RAT	'ING: 22	2,000Å
N		R L E T C S	LOAD V.A.	ССТ		CCT NO	LOAD V.A.	LR TE SC	LOAD DESCRIPTION	R E M	Ρ	AMP SIZE	ø	AMP SIZE	Ρ	R E M	LOAD DESCRIPTION		R L E T C S	LOAD V.A.	
D			6055	2		1			PANEL 'P-101'		3	100	А	20	1		DA-1 CONTROL PANEL				2
			-	4		3	-		-		-	-	В	20	1		DA-2 CONTROL PANEL			1	4
			-	6	1	5	-		-		-	-	С	20	1		GENERATOR BATTERY CHARGER				6
D C			6055	8	1	7			PANEL 'P-105' NORTH GARAGE		3	60	Α	20	1		GENERATOR BLOCK HEATER				8
			-	10	1	9	-		-		-	-	В	20	1		GENERATOR DAY TANK				10
			-	12		11	-		-		-	-	С	20	1		BOILER KILL PANEL				12
				14		13			PANEL 'P-106'		3	60	А	20	1		SPARE				14
			-	16		15	-		-		-	-	В	20	1		SPARE				16
			-	18		17	-		-		-	-	С	20	1		SPARE				18
				20		19			RECREATION BLDG.		2	50	А	20	1		SPARE				20
		X	574	22		21	-		-		-	-	В	20	1		SPARE				22
				24	4	23			PANEL 'LB'		3	100	С	20	1		SPARE		$\square$	<u> </u>	24
				26	4	25	-		-		-	-	А				SPACE ONLY		$\perp$	<b></b>	26
			1	28		27	1 _		I			I _	B				SPACE ONLY			1	28

- - B

 1
 20
 C
 SPACE ONLY

 A
 SPACE ONLY

 B
 SPACE ONLY

 C
 SPACE ONLY

 A
 SPACE ONLY

 A
 SPACE ONLY

 A
 SPACE ONLY

 B
 SPACE ONLY

 B
 SPACE ONLY

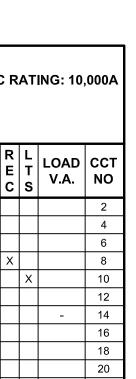
 C
 SPACE ONLY

SPACE ONLY



6

5



24

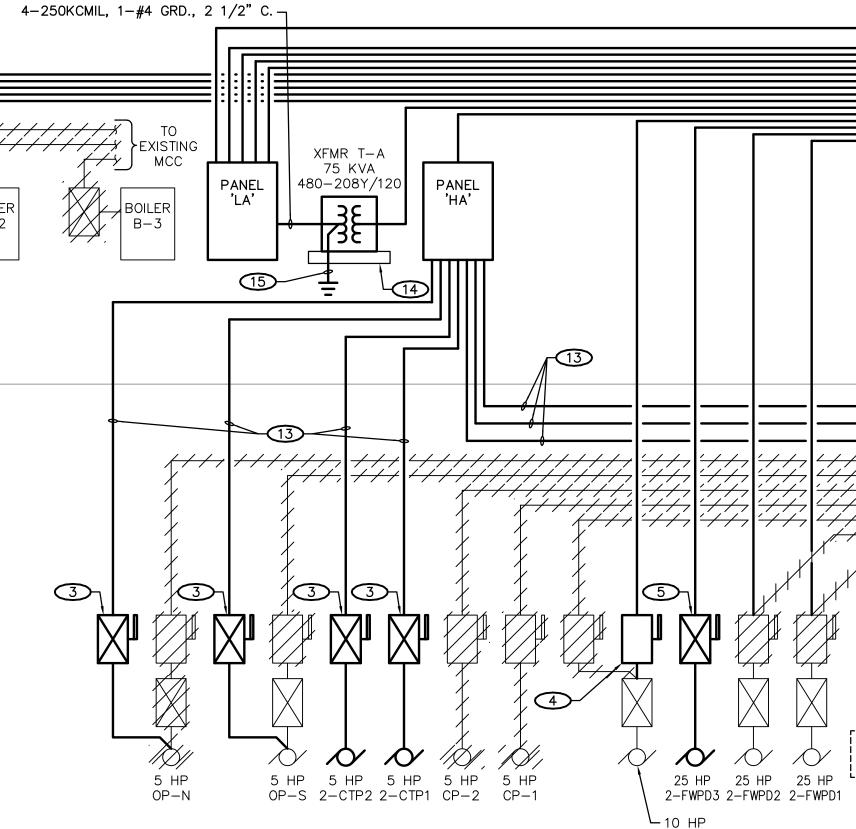
31

35

27 - -29 SPARE

SPACE ONLY SPACE ONLY

SPACE ONLY

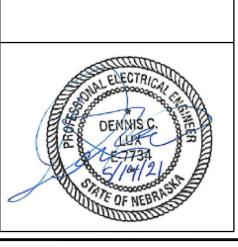


ATING: 22,000A	120/208 VOLT, 3 PHASE, 4 WIRE 100 AMP M.L.O. SURFACE MOUNTED	NEW PANEL LB	AIC RATING	:: 22,000A 1 PROVID PROVID	<b>RICAL KEYNOTES</b> DE 100 AMP, 480 VOLT, 3-PC DE DUAL ELEMENT, TIME DELA DE 200 AMP, 480 VOLT, 3-PC DE DUAL ELEMENT, TIME DELA	DLE, FUSIBLE SAFET Y FUSES PER EQUI DLE, FUSIBLE SAFET
LOAD V.A.         CCT NO           2         4           4         6           4         6           10         10           10         12           11         16           11         16           11         16           11         16           12         14           14         16           15         20           22         24           24         26           25         30           30         32           34         36           38         40           40         42	NO         V.A.         S         C           1         MAIN GAS VALVE         3         UNDEFINED LOAD           5         UNDEFINED LOAD         5         UNDEFINED LOAD           7         UNDEFINED LOAD         9         NORTH OUTLETS           11         CONDENSATE VALV         13         UNDEFINED LOAD           13         UNDEFINED LOAD         15         EAST TANK FARM L           15         EAST TANK FARM L         17         WEST TANK FARM L           19         COMBUSTIBLE GAS         21         SPARE           23         SPARE         23         SPARE           24         SPARE         23         SPARE           25         SPARE         31         SPACE ONLY           33         SPACE ONLY         35         SPACE ONLY           37         SPACE ONLY         39         SPACE ONLY           39         SPACE ONLY         41         SPACE ONLY           39         SPACE ONLY         39         SPACE ONLY           39         SPACE ONLY         39         SPACE ONLY           39         SPACE ONLY         39         SPACE ONLY           39         SPACE ONLY         SPACE ONLY <th>E       1       20       B       30       2       E       UND         E       1       20       C       -       -       -       -       -         E       1       20       A       300       2       E       UND         E       1       20       A        -       -       -       -         E       1       20       A        -       -       -       -       -         GHTS       1       20       A        -</th> <th>CSVJMN &amp; EAST BOILER RM RECEPTS.IEFINED LOADIEFINED LOADIIIDER OUTLETIII<th>DAD       CCT       Image: Second sec</th><th>DE 480 VOLT, NEMA SIZE 1, F ER WITH HAND-OFF-AUTO SEI IGNAL), RED LED RUNNING PIL 1 ENCLOSURE. DE 30 AMP, 480 VOLT, 3-POL DE VARIABLE FREQUENCY DRIV TS LOAD BUS TERMINATION DE CHEDULE FOR CONDUCTOR AN STING PANEL 'P-106' IS LOCA RUCTION, REMOVE PANEL 'P- ANEL 'LA'. IF PANEL HAS BE EEDER FROM PANEL 'LA' TO F DE CONNECTION TO EXISTING F ATE EXISTING CIRCUITS FROM ATED ARE IDENTIFIED BY REM. DE 480 VOLT, NEMA SIZE 1, F ER WITH HAND-OFF-AUTO SEI OL POWER TRANSFORMER IN 1 1 ENCLOSURE). CONNECT FO ATOR CONTROL PANEL. VED FOR FUTURE NEW POWER , 1-#10 GRD., 3/4" C. DE 4" THICK CONCRETE HOUSE UIPMENT. DE #6 TO EXISTING GROUNDING</th><th>ULL VOLTAGE, NON LECTOR SWITCH, 24 OT LIGHT, AND 120 LE, UNFUSED SAFET ZE. SEE SPECIFICA ETAIL FOR REQUIRE D CONDUIT SIZE. TED WHERE SHOWN 106' AND RE-FEED EN RELOCATED BY PANEL 'P-106'. RECREATION BLDG. PANEL 'P-103' TO ARK 3 IN EXISTING ULL VOLTAGE, NON LECTOR SWITCH, RE NEMA 3R ENCLOSUI R AUTOMATIC OPEF SOURCE PROVIDED EKEEPING PAD. EX</th></th>	E       1       20       B       30       2       E       UND         E       1       20       C       -       -       -       -       -         E       1       20       A       300       2       E       UND         E       1       20       A        -       -       -       -         E       1       20       A        -       -       -       -       -         GHTS       1       20       A        -	CSVJMN & EAST BOILER RM RECEPTS.IEFINED LOADIEFINED LOADIIIDER OUTLETIII <th>DAD       CCT       Image: Second sec</th> <th>DE 480 VOLT, NEMA SIZE 1, F ER WITH HAND-OFF-AUTO SEI IGNAL), RED LED RUNNING PIL 1 ENCLOSURE. DE 30 AMP, 480 VOLT, 3-POL DE VARIABLE FREQUENCY DRIV TS LOAD BUS TERMINATION DE CHEDULE FOR CONDUCTOR AN STING PANEL 'P-106' IS LOCA RUCTION, REMOVE PANEL 'P- ANEL 'LA'. IF PANEL HAS BE EEDER FROM PANEL 'LA' TO F DE CONNECTION TO EXISTING F ATE EXISTING CIRCUITS FROM ATED ARE IDENTIFIED BY REM. DE 480 VOLT, NEMA SIZE 1, F ER WITH HAND-OFF-AUTO SEI OL POWER TRANSFORMER IN 1 1 ENCLOSURE). CONNECT FO ATOR CONTROL PANEL. VED FOR FUTURE NEW POWER , 1-#10 GRD., 3/4" C. DE 4" THICK CONCRETE HOUSE UIPMENT. DE #6 TO EXISTING GROUNDING</th> <th>ULL VOLTAGE, NON LECTOR SWITCH, 24 OT LIGHT, AND 120 LE, UNFUSED SAFET ZE. SEE SPECIFICA ETAIL FOR REQUIRE D CONDUIT SIZE. TED WHERE SHOWN 106' AND RE-FEED EN RELOCATED BY PANEL 'P-106'. RECREATION BLDG. PANEL 'P-103' TO ARK 3 IN EXISTING ULL VOLTAGE, NON LECTOR SWITCH, RE NEMA 3R ENCLOSUI R AUTOMATIC OPEF SOURCE PROVIDED EKEEPING PAD. EX</th>	DAD       CCT       Image: Second sec	DE 480 VOLT, NEMA SIZE 1, F ER WITH HAND-OFF-AUTO SEI IGNAL), RED LED RUNNING PIL 1 ENCLOSURE. DE 30 AMP, 480 VOLT, 3-POL DE VARIABLE FREQUENCY DRIV TS LOAD BUS TERMINATION DE CHEDULE FOR CONDUCTOR AN STING PANEL 'P-106' IS LOCA RUCTION, REMOVE PANEL 'P- ANEL 'LA'. IF PANEL HAS BE EEDER FROM PANEL 'LA' TO F DE CONNECTION TO EXISTING F ATE EXISTING CIRCUITS FROM ATED ARE IDENTIFIED BY REM. DE 480 VOLT, NEMA SIZE 1, F ER WITH HAND-OFF-AUTO SEI OL POWER TRANSFORMER IN 1 1 ENCLOSURE). CONNECT FO ATOR CONTROL PANEL. VED FOR FUTURE NEW POWER , 1-#10 GRD., 3/4" C. DE 4" THICK CONCRETE HOUSE UIPMENT. DE #6 TO EXISTING GROUNDING	ULL VOLTAGE, NON LECTOR SWITCH, 24 OT LIGHT, AND 120 LE, UNFUSED SAFET ZE. SEE SPECIFICA ETAIL FOR REQUIRE D CONDUIT SIZE. TED WHERE SHOWN 106' AND RE-FEED EN RELOCATED BY PANEL 'P-106'. RECREATION BLDG. PANEL 'P-103' TO ARK 3 IN EXISTING ULL VOLTAGE, NON LECTOR SWITCH, RE NEMA 3R ENCLOSUI R AUTOMATIC OPEF SOURCE PROVIDED EKEEPING PAD. EX
	3-#4, 1-#8 GRD	., 1 1/4" C 4-#4, 1-#8	GRD., 1 1/2"C.		KVA 120/240 EXIST ANEL BEAT HEAT XTRCTR	
		ING	.63% Z 1A 800 AF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ANEL B D	TING MCC; LEVATIONS T 2EP101 EXIST PANEL 103
				277/480 VOLT, 3 PHA FULL NEUTRAL FLOOR MOUNTED CKT C/B NO. TRIP	600 /	NITCHBOARI AMP MAIN BREAK AMP BUS AIC RATING EMD KVA
25 HP 25 H 2-FWPD3 2-FWP 10 HP AIR COMPRESS	PD2 2-FWPD1 RADIATOR FANS	BASEMENT		M1       600/3       MAIN #2         M2       600/3       MAIN #2         1       100/3       BOILER         2       100/3       BOILER         3       100/3       BOILER	2 12 2-BWT1 2-BWT2	2 SETS - 41.3 3-#1, 1 41.3 3-#1, 1 41.3 3-#1, 1
	120/208 VOLT, 3 PHASE, 4 WIRE         125 AMP MAIN BREAKER         MOUNTED IN MCC         CCT LOAD V.A.       L R E         I       MAIN GAS VALVE         3       GAUGE LIGHTS         5       UNDEFINED LOAD         7       BOILER #1 CONTROL         9       UNDEFINED LOAD         11       NORTH OUTLETS         15       CONDENSATE VALVE         16       PANEL 105 SHED         21       -         23       -	R       P       AMP       Ø       AMP       P       R       LOAD I         3       1       20       A       20       1       3       COLUMN & EAST         3       1       20       A       20       1       3       COLUMN & EAST         2       1       20       B       20       1       2       BOILER MASTER         3       1       20       C       20       1       3       BOILER MASTER         3       1       20       C       20       1       3       BOILER MASTER         3       1       20       C       20       1       1       GENERATOR BLO         3       1       20       A       20       1       3       BOILER MASTER         3       1       20       A       20       1       1       GENERATOR BAC         3       1       20       A       20       1       1       GENERATOR BAC         3       1       20       A       -       -       -       -         3       1       20       A       -       -       -       -         3       1	CONTROL RM4DCK HEATER6ROL8TTERY CHARGER10D12-14	8         60/3         BOILER           9         60/3         BOILER           10         60/3         BOILER           11         30/3         AIR CO           12         15/2         AIR DR	TB-2 HA' FORMER 'TA' (PANEL 'LA') FEED PUMP 2-FWP1 FEED PUMP 2-FWP2 FEED PUMP 2-FWP3 MPRESSOR YER IG LOT LIGHTS	61.3       3-#1/0,         61.3       3-#1/0,         22.0       4-#3/0,         75.0       3-#1/0,         27.0       3-#4, 1         27.0       3-#4, 1         27.0       3-#4, 1         27.0       3-#4, 1         27.0       3-#4, 1         11.0       3-#10,         4-#4, 1       4-#4, 1
ERS:	25       RECREATION BLDG.         27       -         29       SPACE ONLY         31       EAST TANK FARM LIGHTS         33       WEST TANK FARM LIGHTS         35       DFH-2 DA         37       DFH-1 DA         39       SPACE ONLY         41       SPACE ONLY         REMARKS:       1 = RELOCATE EXISTING LOAD TO NEW PANEL 'LA'.         2 = DISCONNECT EXISTING LOAD AND REMOVE ALL AS         3 = RELOCATE EXISTING LOAD TO NEW PANEL 'LB'. PF		RY CONTROLS344TS363381 PLUG403R42	2. PROVIDE WITH 1 Project Title OMAHA VAMO	ONLY ONLY ONLY IIRK KEY INTERLOCK 20 VAC SHUNT TRIP COIL.	<b>100%</b> Project Number 636-19
NEERING COLORADO SPRINGS FEI #202013	Calvin L. Hin ARCHITECTS, P 3705 North 200th St Elkhorn, Nebraska 68 (402) 291-6	DIAGRAM DIAGRAM Approved: Project Director CLH PROJECT NO: 18-013		Location OMAHA, N Date 05-14-2021	DEFICIENCIES E Checked Drawn DCL SCT	Building Number 2 Drawing Number 2E6 Dwg. c
	6		7	8	I	9

### ARCHITECT/ENGINEERS:

FARRIS ENGINEERING OMAHA | LINCOLN | SIDNEY | COLORADO SPRINGS farris-usa.com FEI #202013

5

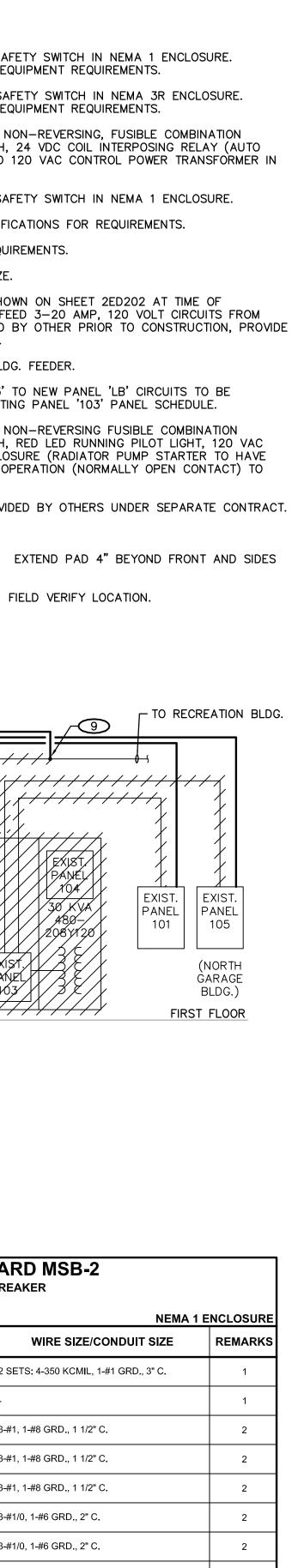


4

6

7

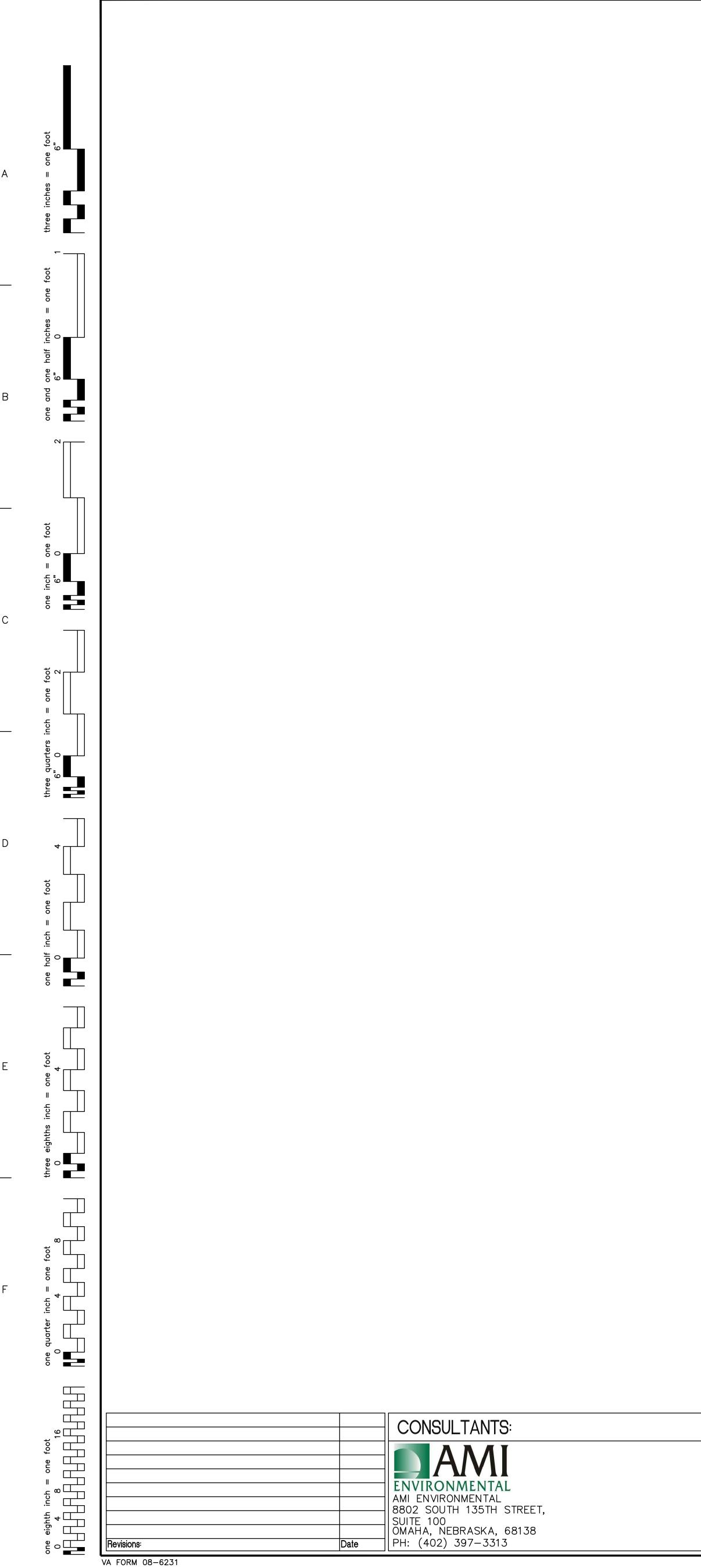
8



С

D

#3/0, 1-#6 GRD , 2" C. #1/0, 1-#6 GRD., 2" C. #4, 1-#8 GRD., 1 1/4" C. #4, 1-#8 GRD., 1 1/4" C. #4, 1-#8 GRD., 1 1/4" C. #10, 1-#10 GRD., 3/4" C. #10, 1-#10 GRD., 3/4" C. #4, 1-#8 GRD., 1 1/2" C. EMD 218 KVA CD SUBMITTAL Office of -19-301 Construction and Facilities Management E601 Department of Veterans Affairs of X 9



2

1

\_\_\_\_

	AR	CHITECT/ENGINI	EERS:	
	OMAHA   L COPYRIGHT This document and the be reproduced or exce written permission of Fa	RIS ENGINEERING LINCOLN   SIDNEY   COLORADO SPRING farris-usa.com FEI #: 182047 information contained may no rpted from without the express rris Engineering, Inc. Unauthorized onstruction use are prohibited by		ait.jpg Calvin L. Hir A R C H LT E C T S, 3705 North 200th S Elkhorn, Nebraska 68 (402) 291-6
3	4		5	6

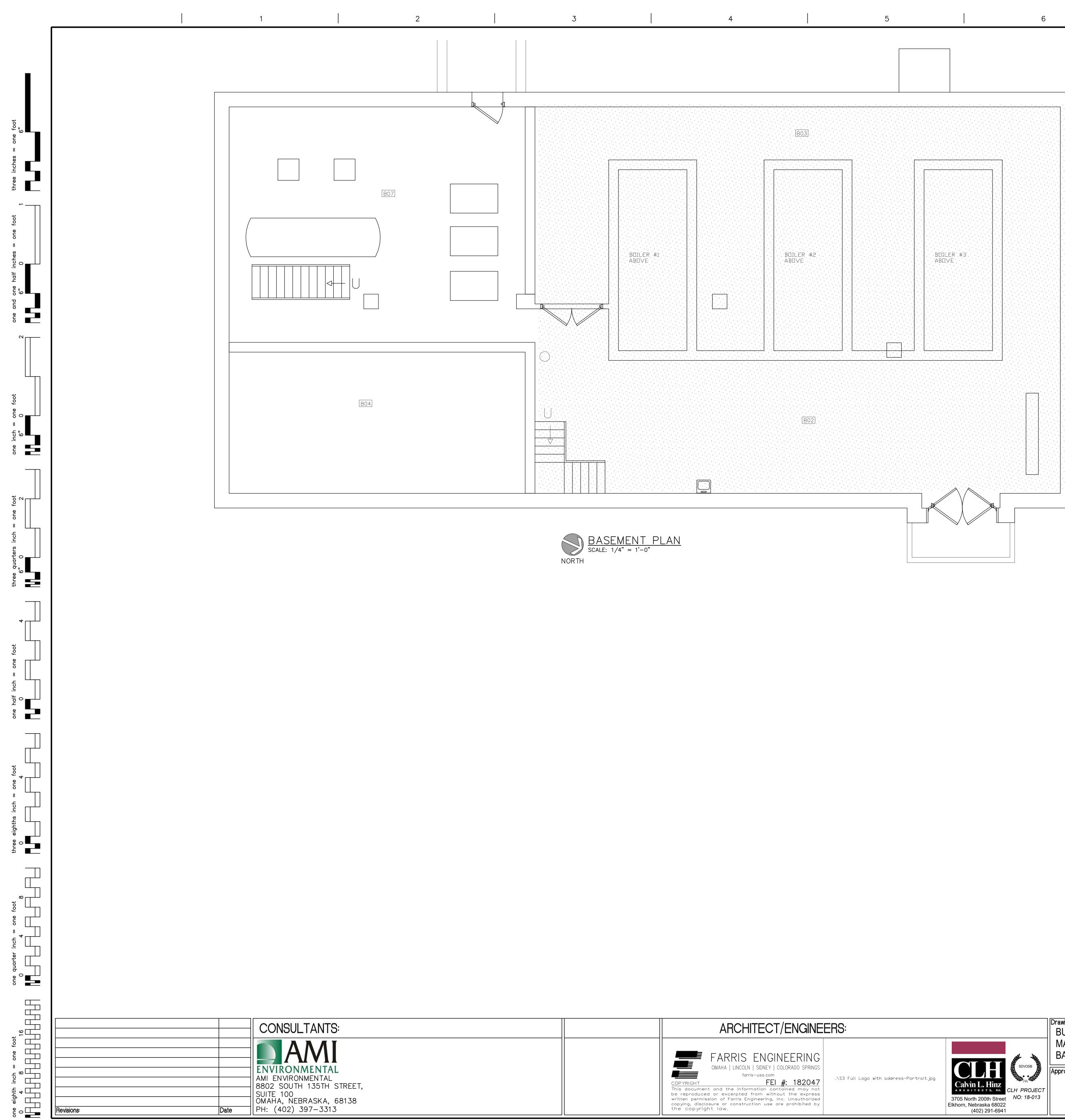
## GENERAL NOTES:

<ol> <li>THESE DRAWINGS ARE DIAGRAMMATIC AND FOR GENERAL I LEAD-BASED PAINT (LBP) SUBJECT TO REMOVAL OR DISTURBANCE. T SHOWN OF ACM AND LBP TO BE REMOVED ARE REPRESENTATIVE BA ABATEMENT CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VER EXISTING SITE CONDITIONS.</li> <li>ASBESTOS REMOVAL IS BEING PERFORMED PURSUANT TO RE ACM IN ACCORDANCE WITH APPLICABLE REGULATIONS, PROJECT SP PLAN (AHP). IF SUSPECT ACMS ARE ENCOUNTERED DURING COM ASBESTOS ABATEMENT DRAWINGS, STOP WORK AND CONTACT THE I S. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH ALL SPECIFICATIONS, THE APPROVED WORK PLAN, AND ACCEPTED INDUS MOST STRINGENT REQUIREMENT SHALL APPLY. ALL WORK SHAI CONSULTANTS, AND REGULATORY PERSONNEL.</li> <li>DEMOLITION OF NON-ACM BUILDING MATERIALS MAY BE REC LIMITED TO, CABINETS, RAISED FLOORING, GYPSUM WALLBOARD, EX WALL FRAMING, CARPET, CERAMIC AND VINY FLOOR COVERINGS, V FOR DEMOLITION OF NON-ACM MATERIALS AS NEEDED TO ACCESS THE LIMITS OF DEMOLITION AND ABATEMENT WITH THE GENERAL COI 5. ALL COSTS ASSOCIATED WITH EXPLORATORY DEMOLITION AN ABATEMENT SHALL BE INCLUDED IN THE ABATEMENT CONTRA COMPENSATION SHALL BE CONSIDERED FOR THIS WORK.</li> <li>ABBESTOS NOTES:</li> <li>THE PROJECT AREA WAS RECENTLY SURVEYED FOR ACM. REF BY AMI ENVIRONMENTAL, DATED AUGUST 27, 2020 FOR MORE INFORM</li> <li>CONCEALED ACM PIPE INSULATION (TSI) MAY EXIST WITHIN WAI WITH DEMOLITION OF AND PACKINGS ARE CONCEALED IN VALVES, EQUIPI FOR SAMPLING, GASKETS AND PACKINGS ARE ASSUMED AS ACM UNL</li> <li>ESTABLISH REGULATED AREAS (RA) AND NEGATIVE PRESSURE APPLICABLE SPECIFICATION SECTIONS: SEC 02 82 13-13, GLOVEBA ABATEMENT; SEC 02 82 13-19, FINALIZE LIMITS OF REGULATED AN DECONTAMINATION FACILITIES (PDF), AND WASTE DECONTAMINATION AND PHASING REQUIREMENTS.</li> <li>ASSUME 50% EFFICIENCY WHEN CALCULATING NAM REQUIR PROVIDED GREATER THAN -0.02° WCG PRESSURE. CONFIGURE AND F DEAD AIR SPACE. COORDINATE NEGATIVE AIR DISCHARGE LOCATION VPIH, IF NEEDED.</li> <li>ASSUME 50% EFFICIENCY WHEN CALCULATING NAM REQUIR PROVIDED GR</li></ol>	THEIR ACCURACY IS NOT G SED ON RECENT AND PREI RIFYING ALL MATERIAL LOO ENOVATION OF THE PROJECT PECIFICATIONS, AND THE AI NSTRUCTION AND DEMOLI PROJECT MANAGER AND VI APPLICABLE FEDERAL, ST/ STRY PRACTICE. WHEN REI LL BE SUBJECT TO INSP QUIRED TO ACCESS REGU PANDED METAL OR WOOD NOOD, ETC. THE ABATEME REGULATED MATERIALS FONTRACTOR. ND DEMOLITION OF NON-A COTOR'S LUMP SUM PRICE FER TO THE HAZARDOUS E MATION ABOUT ACMS IDENT LLS, PIPE CHASES AND ABC ME EXPLORATORY DEMOLI MENT, STEAM TRAPS, BOIL .ESS SAMPLED, ANALYZED, ENCLOSURES (NPE) AND F AG ASBESTOS ABATEMENT REAS, LOCATIONS OF NEO DN FACILITIES (WDF) BASE EMENTS FOR ACHIEVING PLACE NAMS AS NEEDED TO NS WITH GENERAL CONTRACT REMOVAL OF ACM IN ACC AND WEEK-END WORK MA	SUARANTEED. LOCATIONS AND QUANTITIES EXISTING SITE SURVEY INFORMATION. THE CATIONS AND REMOVAL QUANTITIES, AND CATIONS AND REMOVAL QUANTITIES, AND CATIONS AND REMOVAL QUANTITIES, AND CATE, AND LOCAL REGULATIONS; PROJECT EQUIREMENTS OVERLAP OR CONFLICT, THE PECTION BY THE OWNER, THE OWNER'S CLATED MATERIALS, INCLUDING, BUT NOT CLATH AND PLASTER WALLS AND CEILINGS, INT CONTRACTOR SHALL BE RESPONSIBLE FOR ABATEMENT, AND FOR COORDINATING ACM MATERIALS NEEDED TO ACCOMPLISH CE FOR THE PROJECT. NO ADDITIONAL BUILDING MATERIALS INSPECTION REPORT TIFIED IN THE PROJECT AREA. DVE RIGID CEILINGS. COORDINATE ACCESS ITION MAY BE REQUIRED TO DETERMINE IF LERS AND FLUES AND ARE INACCESSIBLE , AND DETERMINED TO BE NON-ASBESTOS. PERFORM REMOVAL IN ACCORDANCE WITH T; SEC 02 82 11, TRADITIONAL ASBESTOS GATIVE AIR MACHINES (NAM), PERSONAL ED ON SITE CONDITIONS, BEST PRACTICES FOUR (4) AIR CHANGES PER HOUR AND PO MAXIMIZE AIR MOVEMENT AND PREVENT RACTOR, OWNER'S REPRESENTATIVE, AND
ACM IN ACCORDANCE WITH APPLICABLE REGULATIONS, PROJECT SP PLAN (AHAP). IF SUSPECT ACMS ARE ENCOUNTERED DURING CON ASBESTOS ABATEMENT DRAWINGS, STOP WORK AND CONTACT THE # 3. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH ALL SPECIFICATIONS, THE APPROVED WORK PLAN, AND ACCEPTED INDUS MOST STRINGENT REQUIREMENT SHALL APPLY. ALL WORK SHAL CONSULTANTS, AND REGULATORY PERSONNEL. 4. DEMOLITION OF NON-ACM BUILDING MATERIALS MAY BE REC LIMITED TO, CABINETS, RAISED FLOORING, GYPSUM WALLBOARD, EX WALL FRAMING, CARPET, CERAMIC AND VINYL FLOOR COVERINGS, V FOR DEMOLITION OF NON-ACM MATERIALS AS NEEDED TO ACCESS THE LIMITS OF DEMOLITION AND ABATEMENT WITH THE GENERAL COU 5. ALL COSTS ASSOCIATED WITH EXPLORATORY DEMOLITION AN ABATEMENT SHALL BE INCLUDED IN THE ABATEMENT CONTRA COMPENSATION SHALL BE CONSIDERED FOR THIS WORK. <b>ASBESTOS NOTES:</b> 1. THE PROJECT AREA WAS RECENTLY SURVEYED FOR ACM. REF BY AMI ENVIRONMENTAL, DATED AUGUST 27, 2020 FOR MORE INFORM 2. CONCEALED ACM PIPE INSULATION (TSI) MAY EXIST WITHIN WAI WITH DEMOLITION DRAWINGS AND THE GENERAL CONTRACTOR. SO CONCEALED ACM IS PRESENT. 3. GASKETS AND PACKINGS ARE CONCEALED IN VALVES, EQUIPI FOR SAMPLING, GASKETS AND PACKINGS ARE ASSUMED AS ACM UNL 4. ESTABLISH REGULATED AREAS (RA) AND NEGATIVE PRESSURE APPLICABLE SPECIFICATION SECTIONS: SEC 02 82 13-13, GLOVEBA ABATEMENT; SEC 02 82 13-19, FINALIZE LIMITS OF REGULATED AI DECONTAMINATION FACILITIES (PDF), AND WASTE DECONTAMINATION AND PHASING REQUIREMENTS. 5. ASSUME 50% EFFICIENCY WHEN CALCULATING NAM REQUR PROVIDED GREATER THAN -0.02° WGG PRESSURE. CONFIGURE AND F DEAD AIR SPACE. COORDINATE NEGATIVE AIR DISCHARGE LOCATION VPIH, IF NEEDED. <b>ASBESTOS ABATEMENT PHASING:</b> 1. THE ABATEMENT CONTRACTOR SHALL WORK CLOSELY WITH OWNER'S REPRESENTATIVE, AND/OR THE VPIH TO COORDINATE IN SEQUENCING, AND PHASING REQUIREMENTS. SOME AFTER HOURS CHANGE TO ACCOMMODATE SITE CONDITIONS AND FACILITY OPERAT	PECIFICATIONS, AND THE AI NSTRUCTION AND DEMOLI PROJECT MANAGER AND VI APPLICABLE FEDERAL, ST STRY PRACTICE. WHEN REF LL BE SUBJECT TO INSP QUIRED TO ACCESS REGU PANDED METAL OR WOOD WOOD, ETC. THE ABATEME REGULATED MATERIALS FONTRACTOR. ND DEMOLITION OF NON-A CTOR'S LUMP SUM PRICE FER TO THE HAZARDOUS E MATION ABOUT ACMS IDENT LLS, PIPE CHASES AND ABC ME EXPLORATORY DEMOLI MENT, STEAM TRAPS, BOIL ESS SAMPLED, ANALYZED, AG ASBESTOS ABATEMENT REAS, LOCATIONS OF NEO ON FACILITIES (WDF) BASE EMENTS FOR ACHIEVING PLACE NAMS AS NEEDED TO ONS WITH GENERAL CONTRACT REMOVAL OF ACM IN ACC AND WEEK-END WORK MA	PPROVED ASBESTOS HAZARD ABATEMENT ITION THAT ARE NOT IDENTIFIED ON THE PIH. ATE, AND LOCAL REGULATIONS; PROJECT QUIREMENTS OVERLAP OR CONFLICT, THE PECTION BY THE OWNER, THE OWNER'S ULATED MATERIALS, INCLUDING, BUT NOT LATH AND PLASTER WALLS AND CEILINGS, ENT CONTRACTOR SHALL BE RESPONSIBLE FOR ABATEMENT, AND FOR COORDINATING ACM MATERIALS NEEDED TO ACCOMPLISH CE FOR THE PROJECT. NO ADDITIONAL BUILDING MATERIALS INSPECTION REPORT TIFIED IN THE PROJECT AREA. OVE RIGID CEILINGS. COORDINATE ACCESS ITION MAY BE REQUIRED TO DETERMINE IF LERS AND FLUES AND ARE INACCESSIBLE , AND DETERMINED TO BE NON-ASBESTOS. PERFORM REMOVAL IN ACCORDANCE WITH T; SEC 02 82 11, TRADITIONAL ASBESTOS GATIVE AIR MACHINES (NAM), PERSONAL DO N SITE CONDITIONS, BEST PRACTICES FOUR (4) AIR CHANGES PER HOUR AND O MAXIMIZE AIR MOVEMENT AND PREVENT RACTOR, OWNER'S REPRESENTATIVE, AND
<ul> <li>SPECIFICATIONS, THE APPROVED WORK PLAN, AND ACCEPTED INDUS MOST STRINGENT REQUIREMENT SHALL APPLY. ALL WORK SHAL CONSULTANTS, AND REGULATORY PERSONNEL.</li> <li>DEMOLITION OF NON-ACM BUILDING MATERIALS MAY BE REQUINTED TO, CABINETS, RAISED FLOORNING, GYPSUM WALLBOARD, EVALL FRAMING, CARPET, CERANC AND VINYL FLOOR COVERINGS, VFOR DEMOLITION OF NON-ACM MATERIALS AS NEEDED TO ACCESS THE LIMITS OF DEMOLITION AND ABATEMENT WITH THE GENERAL COUST.</li> <li>ALL COSTS ASSOCIATED WITH EXPLORATORY DEMOLITION AN ABATEMENT SHALL BE INCLUDED IN THE ABATEMENT CONTRACOMPENSATION SHALL BE INCLUDED IN THE ABATEMENT CONTRACOMPENSATION SHALL BE INCLUDED FOR THIS WORK.</li> <li>ASBESTOS NOTES: <ol> <li>THE PROJECT AREA WAS RECENTLY SURVEYED FOR ACM. REFBY AMI ENVIRONMENTAL, DATED AUGUST 27, 2020 FOR MORE INFORM</li> <li>CONCEALED ACM PIPE INSULATION (TSI) MAY EXIST WITHIN WAI WITH DEMOLITION DRAWINGS AND THE GENERAL CONTRACTOR. SON CONCEALED ACM IS PRESENT.</li> <li>GASKETS AND PACKINGS ARE CONCEALED IN VALVES, EQUIPPIFOR SAMPLING. GASKETS AND PACKINGS ARE ASSUMED AS ACM UNL</li> <li>ESTABLISH REGULATED AREAS (RA) AND NEGATIVE PRESSURE APPLICABLE SPECIFICATION SECTIONS: SEC 02 82 13-13, GLOVEBA ABATEMENT; SEC 02 82 13-19, FINALIZE LIMITS OF REGULATED AND PHASING REQUIREMENTS.</li> <li>ASSUME 50% EFFICIENCY WHEN CALCULATING NAM REQUIR PROVIDED GREATER THAN -0.02" WCG PRESSURE. CONFIGURE AND FDEAD AIR SPACE. COORDINATE NEGATIVE AIR DISCHARGE LOCATION VPIH, IF NEEDED.</li> </ol> </li> <li>ABBESTOS ABATEMENT PHASING: <ol> <li>THE ABATEMENT CONTRACTOR SHALL WORK CLOSELY WITH OWNER'S REPRESENTATIVE, AND/OR THE VPIH TO COORDINATE SEQUENCING, AND PHASING REQUIREMENTS. SOME AFTER HOURS. CHANGE TO ACCOMMODATE SITE CONDITIONS AND FACILITY OPERATIONS CHANGE TO ACCOMMODATE SITE CONDITIONS A</li></ol></li></ul>	STRY PRACTICE. WHEN REALL BE SUBJECT TO INSP QUIRED TO ACCESS REGU PANDED METAL OR WOOD WOOD, ETC. THE ABATEME REGULATED MATERIALS FONTRACTOR. ND DEMOLITION OF NON-A CTOR'S LUMP SUM PRICE FER TO THE HAZARDOUS EN ACTOR'S LUMP SUM PRICE FER TO THE HAZARDOUS EN ACTOR'S LUMP SUM PRICE MENT, STEAM TRAPS, BOIL MENT, STEAM TRAPS, BOIL ESS SAMPLED, ANALYZED, ENCLOSURES (NPE) AND FON AG ASBESTOS ABATEMENT REAS, LOCATIONS OF NEO DN FACILITIES (WDF) BASE EMENTS FOR ACHIEVING PLACE NAMS AS NEEDED TO DNS WITH GENERAL CONTRACT REMOVAL OF ACM IN ACC AND WEEK-END WORK MA	QUIREMENTS OVERLAP OR CONFLICT, THE PECTION BY THE OWNER, THE OWNER'S ULATED MATERIALS, INCLUDING, BUT NOT LATH AND PLASTER WALLS AND CEILINGS, ENT CONTRACTOR SHALL BE RESPONSIBLE OR ABATEMENT, AND FOR COORDINATING ACM MATERIALS NEEDED TO ACCOMPLISH DE FOR THE PROJECT. NO ADDITIONAL BUILDING MATERIALS INSPECTION REPORT TIFIED IN THE PROJECT AREA. OVE RIGID CEILINGS. COORDINATE ACCESS ITION MAY BE REQUIRED TO DETERMINE IF LERS AND FLUES AND ARE INACCESSIBLE , AND DETERMINED TO BE NON-ASBESTOS. PERFORM REMOVAL IN ACCORDANCE WITH T; SEC 02 82 11, TRADITIONAL ASBESTOS GATIVE AIR MACHINES (NAM), PERSONAL ED ON SITE CONDITIONS, BEST PRACTICES FOUR (4) AIR CHANGES PER HOUR AND TO MAXIMIZE AIR MOVEMENT AND PREVENT RACTOR, OWNER'S REPRESENTATIVE, AND
LIMITED TO, CABINETS, RAISED FLOORING, GYPSUM WALLBOARD, EX WALL FRAMING, CARPET, CERAMIC AND VINYL FLOOR COVERINGS, V FOR DEMOLITION OF NON-ACM MATERIALS AS NEEDED TO ACCESS THE LIMITS OF DEMOLITION AND ABATEMENT WITH THE GENERAL COU 5. ALL COSTS ASSOCIATED WITH EXPLORATORY DEMOLITION AN ABATEMENT SHALL BE INCLUDED IN THE ABATEMENT CONTRA COMPENSATION SHALL BE INCLUDED IN THE ABATEMENT CONTRA COMPENSATION SHALL BE CONSIDERED FOR THIS WORK. <b>ASBESTOS NOTES:</b> 1. THE PROJECT AREA WAS RECENTLY SURVEYED FOR ACM. REF BY AMI ENVIRONMENTAL, DATED AUGUST 27, 2020 FOR MORE INFORM 2. CONCEALED ACM PIPE INSULATION (TSI) MAY EXIST WITHIN WAI WITH DEMOLITION DRAWINGS AND THE GENERAL CONTRACTOR. SON CONCEALED ACM IS PRESENT. 3. GASKETS AND PACKINGS ARE CONCEALED IN VALVES, EQUIPT FOR SAMPLING. GASKETS AND PACKINGS ARE ASSUMED AS ACM UNL 4. ESTABLISH REGULATED AREAS (RA) AND NEGATIVE PRESSURE APPLICABLE SPECIFICATION SECTIONS: SEC 02 82 13-13, GLOVEBA ABATEMENT; SEC 02 82 13-19, FINALIZE LIMITS OF REGULATED AN DECONTAMINATION FACILITIES (PDF), AND WASTE DECONTAMINATION AND PHASING REQUIREMENTS. 5. ASSUME 50% EFFICIENCY WHEN CALCULATING NAM REQUIR PROVIDED GREATER THAN -0.02" WCG PRESSURE. CONFIGURE AND DEAD AIR SPACE. COORDINATE NEGATIVE AIR DISCHARGE LOCATIO VPIH, IF NEEDED. <b>ASBESTOS ABATEMENT PHASING:</b> 1. THE ABATEMENT CONTRACTOR SHALL WORK CLOSELY WITH OWNER'S REPRESENTATIVE, AND/OR THE VPIH TO COORDINATE IN SEQUENCING, AND PHASING REQUIREMENTS. SOME AFTER HOURS CHANGE TO ACCOMMODATE SITE CONDITIONS AND FACILITY OPERAT <b>LEAD-BASED PAINT AND PAINT CONTALINING LEAD:</b> 1. LEAD-BASED PAINT (LBP) ARE PAINTS THAT CONTAIN LEAD ≥1.0	PANDED METAL OR WOOD NOOD, ETC. THE ABATEME REGULATED MATERIALS FON NTRACTOR. ND DEMOLITION OF NON-A CTOR'S LUMP SUM PRICE FER TO THE HAZARDOUS E MATION ABOUT ACMS IDENT LLS, PIPE CHASES AND ABC ME EXPLORATORY DEMOLI MENT, STEAM TRAPS, BOIL ESS SAMPLED, ANALYZED, ENCLOSURES (NPE) AND F AG ASBESTOS ABATEMENT REAS, LOCATIONS OF NEE ON FACILITIES (WDF) BASE EMENTS FOR ACHIEVING PLACE NAMS AS NEEDED TO NS WITH GENERAL CONTR THE GENERAL CONTRACT REMOVAL OF ACM IN ACC AND WEEK-END WORK MA	LATH AND PLASTER WALLS AND CEILINGS, ENT CONTRACTOR SHALL BE RESPONSIBLE FOR ABATEMENT, AND FOR COORDINATING ACM MATERIALS NEEDED TO ACCOMPLISH CE FOR THE PROJECT. NO ADDITIONAL BUILDING MATERIALS INSPECTION REPORT TIFIED IN THE PROJECT AREA. OVE RIGID CEILINGS. COORDINATE ACCESS ITION MAY BE REQUIRED TO DETERMINE IF LERS AND FLUES AND ARE INACCESSIBLE , AND DETERMINED TO BE NON-ASBESTOS. PERFORM REMOVAL IN ACCORDANCE WITH T; SEC 02 82 11, TRADITIONAL ASBESTOS GATIVE AIR MACHINES (NAM), PERSONAL DO N SITE CONDITIONS, BEST PRACTICES FOUR (4) AIR CHANGES PER HOUR AND PO MAXIMIZE AIR MOVEMENT AND PREVENT RACTOR, OWNER'S REPRESENTATIVE, AND
ABATEMENT SHALL BE INCLUDED IN THE ABATEMENT CONTRA COMPENSATION SHALL BE CONSIDERED FOR THIS WORK. ASBESTOS NOTES: 1. THE PROJECT AREA WAS RECENTLY SURVEYED FOR ACM. REF BY AMI ENVIRONMENTAL, DATED AUGUST 27, 2020 FOR MORE INFORM 2. CONCEALED ACM PIPE INSULATION (TSI) MAY EXIST WITHIN WAI WITH DEMOLITION DRAWINGS AND THE GENERAL CONTRACTOR. SON CONCEALED ACM IS PRESENT. 3. GASKETS AND PACKINGS ARE CONCEALED IN VALVES, EQUIPING FOR SAMPLING. GASKETS AND PACKINGS ARE ASSUMED AS ACM UNL 4. ESTABLISH REGULATED AREAS (RA) AND NEGATIVE PRESSURE APPLICABLE SPECIFICATION SECTIONS: SEC 02 82 13-13, GLOVEBA ABATEMENT; SEC 02 82 13-19, FINALIZE LIMITS OF REGULATED AND DECONTAMINATION FACILITIES (PDF), AND WASTE DECONTAMINATION AND PHASING REQUIREMENTS. 5. ASSUME 50% EFFICIENCY WHEN CALCULATING NAM REQUIR PROVIDED GREATER THAN -0.02" WCG PRESSURE. CONFIGURE AND F DEAD AIR SPACE. COORDINATE NEGATIVE AIR DISCHARGE LOCATION VPIH, IF NEEDED. ASBESTOS ABATEMENT PHASING: 1. THE ABATEMENT CONTRACTOR SHALL WORK CLOSELY WITH OWNER'S REPRESENTATIVE, AND/OR THE VPIH TO COORDINATE IN SEQUENCING, AND PHASING REQUIREMENTS. SOME AFTER HOURS CHANGE TO ACCOMMODATE SITE CONDITIONS AND FACILITY OPERATIONS LEAD-BASED PAINT AND PAINT CONTAINING LEAD: 1. LEAD-BASED PAINT (LEP) ARE PAINTS THAT CONTAIN LEAD ≥1.0	THE GENERAL CONTRACT ACTOR'S LUMP SUM PRICE ATION ABOUT ACMS IDENT LLS, PIPE CHASES AND ABC ME EXPLORATORY DEMOLI MENT, STEAM TRAPS, BOIL ESS SAMPLED, ANALYZED, ENCLOSURES (NPE) AND F AG ASBESTOS ABATEMENT REAS, LOCATIONS OF NEG DN FACILITIES (WDF) BASE EMENTS FOR ACHIEVING PLACE NAMS AS NEEDED TO DNS WITH GENERAL CONTRACT REMOVAL OF ACM IN ACC AND WEEK-END WORK MA	CE FOR THE PROJECT. NO ADDITIONAL BUILDING MATERIALS INSPECTION REPORT TIFIED IN THE PROJECT AREA. OVE RIGID CEILINGS. COORDINATE ACCESS ITION MAY BE REQUIRED TO DETERMINE IF LERS AND FLUES AND ARE INACCESSIBLE , AND DETERMINED TO BE NON-ASBESTOS. PERFORM REMOVAL IN ACCORDANCE WITH T; SEC 02 82 11, TRADITIONAL ASBESTOS GATIVE AIR MACHINES (NAM), PERSONAL D ON SITE CONDITIONS, BEST PRACTICES FOUR (4) AIR CHANGES PER HOUR AND TO MAXIMIZE AIR MOVEMENT AND PREVENT RACTOR, OWNER'S REPRESENTATIVE, AND
<ol> <li>THE PROJECT AREA WAS RECENTLY SURVEYED FOR ACM. REF BY AMI ENVIRONMENTAL, DATED AUGUST 27, 2020 FOR MORE INFORM</li> <li>CONCEALED ACM PIPE INSULATION (TSI) MAY EXIST WITHIN WAI WITH DEMOLITION DRAWINGS AND THE GENERAL CONTRACTOR. SON CONCEALED ACM IS PRESENT.</li> <li>GASKETS AND PACKINGS ARE CONCEALED IN VALVES, EQUIPI FOR SAMPLING. GASKETS AND PACKINGS ARE ASSUMED AS ACM UNL</li> <li>ESTABLISH REGULATED AREAS (RA) AND NEGATIVE PRESSURE APPLICABLE SPECIFICATION SECTIONS: SEC 02 82 13-13, GLOVEBA ABATEMENT; SEC 02 82 13-19, FINALIZE LIMITS OF REGULATED AI DECONTAMINATION FACILITIES (PDF), AND WASTE DECONTAMINATIC AND PHASING REQUIREMENTS.</li> <li>ASSUME 50% EFFICIENCY WHEN CALCULATING NAM REQUIR PROVIDED GREATER THAN -0.02" WCG PRESSURE. CONFIGURE AND F DEAD AIR SPACE. COORDINATE NEGATIVE AIR DISCHARGE LOCATIO VPIH, IF NEEDED.</li> <li>THE ABATEMENT CONTRACTOR SHALL WORK CLOSELY WITH OWNER'S REPRESENTATIVE, AND/OR THE VPIH TO COORDINATE IN SEQUENCING, AND PHASING REQUIREMENTS. SOME AFTER HOURS . CHANGE TO ACCOMMODATE SITE CONDITIONS AND FACILITY OPERAT</li> <li>LEAD-BASED PAINT (LBP) ARE PAINTS THAT CONTAIN LEAD ≥1.0</li> </ol>	THE GENERAL CONTRACT	TIFIED IN THE PROJECT AREA. OVE RIGID CEILINGS. COORDINATE ACCESS ITION MAY BE REQUIRED TO DETERMINE IF LERS AND FLUES AND ARE INACCESSIBLE , AND DETERMINED TO BE NON-ASBESTOS. PERFORM REMOVAL IN ACCORDANCE WITH T; SEC 02 82 11, TRADITIONAL ASBESTOS GATIVE AIR MACHINES (NAM), PERSONAL ED ON SITE CONDITIONS, BEST PRACTICES FOUR (4) AIR CHANGES PER HOUR AND TO MAXIMIZE AIR MOVEMENT AND PREVENT RACTOR, OWNER'S REPRESENTATIVE, AND TOR, CONTRACTING OFFICER, OWNER OR CORDANCE WITH PROJECT SCHEDULING,
BY AMI ENVIRONMENTAL, DATED AUGUST 27, 2020 FOR MORE INFORM 2. CONCEALED ACM PIPE INSULATION (TSI) MAY EXIST WITHIN WAI WITH DEMOLITION DRAWINGS AND THE GENERAL CONTRACTOR. SON CONCEALED ACM IS PRESENT. 3. GASKETS AND PACKINGS ARE CONCEALED IN VALVES, EQUIPI FOR SAMPLING. GASKETS AND PACKINGS ARE ASSUMED AS ACM UNL 4. ESTABLISH REGULATED AREAS (RA) AND NEGATIVE PRESSURE APPLICABLE SPECIFICATION SECTIONS: SEC 02 82 13-13, GLOVEBA ABATEMENT; SEC 02 82 13-19, FINALIZE LIMITS OF REGULATED AND DECONTAMINATION FACILITIES (PDF), AND WASTE DECONTAMINATICA AND PHASING REQUIREMENTS. 5. ASSUME 50% EFFICIENCY WHEN CALCULATING NAM REQUIR PROVIDED GREATER THAN -0.02" WCG PRESSURE. CONFIGURE AND F DEAD AIR SPACE. COORDINATE NEGATIVE AIR DISCHARGE LOCATION VPIH, IF NEEDED. 4. THE ABATEMENT CONTRACTOR SHALL WORK CLOSELY WITH OWNER'S REPRESENTATIVE, AND/OR THE VPIH TO COORDINATE IN SEQUENCING, AND PHASING REQUIREMENTS. SOME AFTER HOURS. CHANGE TO ACCOMMODATE SITE CONDITIONS AND FACILITY OPERAT 1. LEAD-BASED PAINT (LBP) ARE PAINTS THAT CONTAIN LEAD ≥1.0	THE GENERAL CONTRACT	TIFIED IN THE PROJECT AREA. OVE RIGID CEILINGS. COORDINATE ACCESS ITION MAY BE REQUIRED TO DETERMINE IF LERS AND FLUES AND ARE INACCESSIBLE , AND DETERMINED TO BE NON-ASBESTOS. PERFORM REMOVAL IN ACCORDANCE WITH T; SEC 02 82 11, TRADITIONAL ASBESTOS GATIVE AIR MACHINES (NAM), PERSONAL ED ON SITE CONDITIONS, BEST PRACTICES FOUR (4) AIR CHANGES PER HOUR AND TO MAXIMIZE AIR MOVEMENT AND PREVENT RACTOR, OWNER'S REPRESENTATIVE, AND TOR, CONTRACTING OFFICER, OWNER OR CORDANCE WITH PROJECT SCHEDULING,
<ol> <li>GASKETS AND PACKINGS ARE CONCEALED IN VALVES, EQUIPI FOR SAMPLING. GASKETS AND PACKINGS ARE ASSUMED AS ACM UNL</li> <li>ESTABLISH REGULATED AREAS (RA) AND NEGATIVE PRESSURE APPLICABLE SPECIFICATION SECTIONS: SEC 02 82 13-13, GLOVEBA ABATEMENT; SEC 02 82 13-19, FINALIZE LIMITS OF REGULATED AND DECONTAMINATION FACILITIES (PDF), AND WASTE DECONTAMINATION AND PHASING REQUIREMENTS.</li> <li>ASSUME 50% EFFICIENCY WHEN CALCULATING NAM REQUIR PROVIDED GREATER THAN -0.02" WCG PRESSURE. CONFIGURE AND F DEAD AIR SPACE. COORDINATE NEGATIVE AIR DISCHARGE LOCATIO VPIH, IF NEEDED.</li> <li>THE ABATEMENT PHASING:</li> <li>THE ABATEMENT CONTRACTOR SHALL WORK CLOSELY WITH OWNER'S REPRESENTATIVE, AND/OR THE VPIH TO COORDINATE IN SEQUENCING, AND PHASING REQUIREMENTS. SOME AFTER HOURS CHANGE TO ACCOMMODATE SITE CONDITIONS AND FACILITY OPERAT</li> <li>LEAD-BASED PAINT (LBP) ARE PAINTS THAT CONTAIN LEAD ≥1.0</li> </ol>	ESS SAMPLED, ANALYZED, ENCLOSURES (NPE) AND F AG ASBESTOS ABATEMENT REAS, LOCATIONS OF NEG ON FACILITIES (WDF) BASE EMENTS FOR ACHIEVING PLACE NAMS AS NEEDED TO PLACE NAMS AS NEEDED TO ONS WITH GENERAL CONTRACT REMOVAL OF ACM IN ACC AND WEEK-END WORK MA	AND DETERMINED TO BE NON-ASBESTOS. PERFORM REMOVAL IN ACCORDANCE WITH T; SEC 02 82 11, TRADITIONAL ASBESTOS GATIVE AIR MACHINES (NAM), PERSONAL ED ON SITE CONDITIONS, BEST PRACTICES FOUR (4) AIR CHANGES PER HOUR AND TO MAXIMIZE AIR MOVEMENT AND PREVENT RACTOR, OWNER'S REPRESENTATIVE, AND
APPLICABLE SPECIFICATION SECTIONS: SEC 02 82 13-13, GLOVEBA ABATEMENT; SEC 02 82 13-19, FINALIZE LIMITS OF REGULATED AI DECONTAMINATION FACILITIES (PDF), AND WASTE DECONTAMINATIO AND PHASING REQUIREMENTS. 5. ASSUME 50% EFFICIENCY WHEN CALCULATING NAM REQUIR PROVIDED GREATER THAN -0.02" WCG PRESSURE. CONFIGURE AND F DEAD AIR SPACE. COORDINATE NEGATIVE AIR DISCHARGE LOCATIO VPIH, IF NEEDED. ASBESTOS ABATEMENT PHASING: 1. THE ABATEMENT CONTRACTOR SHALL WORK CLOSELY WITH OWNER'S REPRESENTATIVE, AND/OR THE VPIH TO COORDINATE I SEQUENCING, AND PHASING REQUIREMENTS. SOME AFTER HOURS CHANGE TO ACCOMMODATE SITE CONDITIONS AND FACILITY OPERAT LEAD-BASED PAINT AND PAINT CONTAINING LEAD: 1. LEAD-BASED PAINT (LBP) ARE PAINTS THAT CONTAIN LEAD ≥1.0	AG ASBESTOS ABATEMENT REAS, LOCATIONS OF NEO DN FACILITIES (WDF) BASE REMENTS FOR ACHIEVING PLACE NAMS AS NEEDED TO DNS WITH GENERAL CONTR NS WITH GENERAL CONTRACT REMOVAL OF ACM IN ACC AND WEEK-END WORK MA	T; SEC 02 82 11, TRADITIONAL ASBESTOS GATIVE AIR MACHINES (NAM), PERSONAL ED ON SITE CONDITIONS, BEST PRACTICES FOUR (4) AIR CHANGES PER HOUR AND TO MAXIMIZE AIR MOVEMENT AND PREVENT RACTOR, OWNER'S REPRESENTATIVE, AND TOR, CONTRACTING OFFICER, OWNER OR CORDANCE WITH PROJECT SCHEDULING,
PROVIDED GREATER THAN -0.02" WCG PRESSURE. CONFIGURE AND F DEAD AIR SPACE. COORDINATE NEGATIVE AIR DISCHARGE LOCATIO VPIH, IF NEEDED. ASBESTOS ABATEMENT PHASING: 1. THE ABATEMENT CONTRACTOR SHALL WORK CLOSELY WITH OWNER'S REPRESENTATIVE, AND/OR THE VPIH TO COORDINATE F SEQUENCING, AND PHASING REQUIREMENTS. SOME AFTER HOURS CHANGE TO ACCOMMODATE SITE CONDITIONS AND FACILITY OPERAT LEAD-BASED PAINT AND PAINT CONTAINING LEAD: 1. LEAD-BASED PAINT (LBP) ARE PAINTS THAT CONTAIN LEAD ≥1.0	PLACE NAMS AS NEEDED TO NS WITH GENERAL CONTR THE GENERAL CONTRACT REMOVAL OF ACM IN ACC AND WEEK-END WORK MA	TO MAXIMIZE AIR MOVEMENT AND PREVENT RACTOR, OWNER'S REPRESENTATIVE, AND TOR, CONTRACTING OFFICER, OWNER OR CORDANCE WITH PROJECT SCHEDULING,
<ol> <li>THE ABATEMENT CONTRACTOR SHALL WORK CLOSELY WITH OWNER'S REPRESENTATIVE, AND/OR THE VPIH TO COORDINATE I SEQUENCING, AND PHASING REQUIREMENTS. SOME AFTER HOURS CHANGE TO ACCOMMODATE SITE CONDITIONS AND FACILITY OPERAT</li> <li>LEAD-BASED PAINT AND PAINT CONTAINING LEAD:</li> <li>LEAD-BASED PAINT (LBP) ARE PAINTS THAT CONTAIN LEAD ≥1.0</li> </ol>	REMOVAL OF ACM IN ACC AND WEEK-END WORK MA	CORDANCE WITH PROJECT SCHEDULING,
OWNER'S REPRESENTATIVE, AND/OR THE VPIH TO COORDINATE I SEQUENCING, AND PHASING REQUIREMENTS. SOME AFTER HOURS CHANGE TO ACCOMMODATE SITE CONDITIONS AND FACILITY OPERAT LEAD-BASED PAINT AND PAINT CONTAINING LEAD: 1. LEAD-BASED PAINT (LBP) ARE PAINTS THAT CONTAIN LEAD ≥1.0	REMOVAL OF ACM IN ACC AND WEEK-END WORK MA	CORDANCE WITH PROJECT SCHEDULING,
MAY BE DISTURBED, PENETRATED, REFINISHED, OR DEMOLISHED. F AND/OR PCL IN ACCORDANCE WITH APPLICABLE REGULATIONS AND T	OWN TO EXIST ON MATERI. PERFORM DEMOLITION OF	IALS, COMPONENTS, AND SURFACES THAT MATERIALS AND COMPONENTS WITH LBP
2. FLAKING AND PEELING LBP AND/OR PCL ON SURFACES TO ACCORDANCE WITH SECTION 02 83 33.13, LEAD-BASED PAINT REMOVA		/ED AND STABILIZED USING METHODS IN
3. REFER TO THE HAZARDOUS BUILDING MATERIALS INSPECTION INFORMATION CONCERNING THE PRESENCE OF LBP AND PCL IN THE I		ONMENTAL, DATED AUGUST 27, 2020, FOR
SUMMARY OF ASBESTOS	CONTAINING	MATERIALS
DESCRIPTION LOCATION	EST. QTY.	HATCHING
NTERIOR & EXTERIOR CAULK - COLOR; GRAY & BLDG 2 BOILER RI ULACK WINDOWS	M 900 LF	
PIPING THERMAL SYSTEMS INSULATION - COLOR; (ELLOW & RED PIPING THERMAL SYSTEMS FITTINGS - COLOR:	M 1110 FT <sup>2</sup>	
IPING THERMAL SYSTEMS FITTINGS - COLOR; ELLOW, GREEN & RED	M 85 EACH	
HERMAL SYSTEMS FLUE - COLOR; SILVER BLDG 2 BOILER RI BLDG 1 & 2 CONCELED INSID	F	
BOILER & EQUIPMENT	500 EACH	
DEFECTIVE TRAPS BUILDING 1	AS NEEDED	NDNE
SUMMARY OF LEAD-BAS	EST. QTY.	HATCHING OR
BUILDING 2 - PAINT ON EXTERIOR OF	2000 SQ FT	KEYNOTE
OILER 1 (GRAY) UILDING 2 - PAINT ON PIPES OF OILER ROOM (ORANGE) POOR	2000 GQ 1 1 200 LF	
UILDING 2 - PAINT ON EXTERIOR OF OILERS 1 AND 2 (BLUE)	800 SQ FT	
UILDING 2 - END EDGE STRIP OF	50 LF	
LIII DING 2 - SEAM STRIP OF BOILERS 1	120 LF	
SUILERS TAND 2 (GRAT)       SUILDING 2 - SEAM STRIP OF BOILERS 1       ND 2 (GRAY)       SUILDING 2 - PAINT ON PIPES (YELLOW)	500 LF	
BUILDING 2 - SEAM STRIP OF BOILERS 1 ND 2 (GRAY) BUILDING 2 - PAINT ON PIPES (XELLOW)	500 LF 50 LF	

GENERAL NOTES:						
LEAD-BASED PAINT (LBP) SUBJECT TO F SHOWN OF ACM AND LBP TO BE REMOV	REMOVAL OI 'ED ARE REI	R DISTURBANCE PRESENTATIVE	e. The Base	EIR ACCURACY IS NOT GUE ON RECENT AND PREE	TOS-CONTAINING MATERIALS (ACM) AND JARANTEED. LOCATIONS AND QUANTITIES EXISTING SITE SURVEY INFORMATION. THE CATIONS AND REMOVAL QUANTITIES, AND	
2. ASBESTOS REMOVAL IS BEING PE ACM IN ACCORDANCE WITH APPLICABL	E REGULATI ENCOUNTE	IONS, PROJECT RED DURING C	SPEC	CIFICATIONS, AND THE AF	CT AREAS. REMOVE AND DISPOSE OF ALL PROVED ASBESTOS HAZARD ABATEMENT TION THAT ARE NOT IDENTIFIED ON THE PIH.	
3. ALL WORK IS TO BE PERFORMED SPECIFICATIONS, THE APPROVED WOR	) IN ACCOR < PLAN, ANE ALL APPLY.	DANCE WITH AI DACCEPTED INI	LL AP DUSTI	PLICABLE FEDERAL, STA RY PRACTICE. WHEN REC	ATE, AND LOCAL REGULATIONS; PROJECT QUIREMENTS OVERLAP OR CONFLICT, THE ECTION BY THE OWNER, THE OWNER'S	
4. DEMOLITION OF NON-ACM BUILD LIMITED TO, CABINETS, RAISED FLOORII WALL FRAMING, CARPET, CERAMIC AND	ING MATER NG, GYPSUN ) VINYL FLC ALS AS NEE	M WALLBOARD, OR COVERINGS EDED TO ACCES	EXPA S, WO SS RE	NDED METAL OR WOOD I OD, ETC. THE ABATEMEN GULATED MATERIALS FO	LATED MATERIALS, INCLUDING, BUT NOT LATH AND PLASTER WALLS AND CEILINGS, NT CONTRACTOR SHALL BE RESPONSIBLE DR ABATEMENT, AND FOR COORDINATING	A
5. ALL COSTS ASSOCIATED WITH E	XPLORATOF	RY DEMOLITION	AND	DEMOLITION OF NON-A	CM MATERIALS NEEDED TO ACCOMPLISH E FOR THE PROJECT. NO ADDITIONAL	
ASBESTOS NOTES:						
BY AMI ENVIRONMENTAL, DATED AUGUS 2. CONCEALED ACM PIPE INSULATIO	ST 27, 2020 F N (TSI) MAY	OR MORE INFO	RMAT	TION ABOUT ACMS IDENT	UILDING MATERIALS INSPECTION REPORT FIED IN THE PROJECT AREA. VE RIGID CEILINGS. COORDINATE ACCESS FION MAY BE REQUIRED TO DETERMINE IF	
CONCEALED ACM IS PRESENT.					ERS AND FLUES AND ARE INACCESSIBLE	
FOR SAMPLING. GASKETS AND PACKING	S ARE ASSU	JMED AS ACM U	INLES	S SAMPLED, ANALYZED,	AND DETERMINED TO BE NON-ASBESTOS.	В
APPLICABLE SPECIFICATION SECTIONS ABATEMENT; SEC 02 82 13-19, FINALIZ	SEC 02 8 ZE LIMITS C	2 13-13, GLOVE DF REGULATED	EBAG ARE	ASBESTOS ABATEMENT AS, LOCATIONS OF NEG	ERFORM REMOVAL IN ACCORDANCE WITH ; SEC 02 82 11, TRADITIONAL ASBESTOS GATIVE AIR MACHINES (NAM), PERSONAL O ON SITE CONDITIONS, BEST PRACTICES	
PROVIDED GREATER THAN -0.02" WCG F	RESSURE.	CONFIGURE AN	d pla	ACE NAMS AS NEEDED TO	FOUR (4) AIR CHANGES PER HOUR AND D MAXIMIZE AIR MOVEMENT AND PREVENT ACTOR, OWNER'S REPRESENTATIVE, AND	
ASBESTOS ABATEMENT PHASING:						
OWNER'S REPRESENTATIVE, AND/OR	THE VPIH T MENTS. SOM DITIONS AND	TO COORDINAT ME AFTER HOUF D FACILITY OPEF	E RE RS AN	MOVAL OF ACM IN ACC	OR, CONTRACTING OFFICER, OWNER OR CORDANCE WITH PROJECT SCHEDULING, Y BE REQUIRED. PHASING IS SUBJECT TO	
1. LEAD-BASED PAINT (LBP) ARE PAII PAINT WITH A DETECTABLE LEVEL OF I	NTS THAT C _EAD. LBP FINISHED, C	ONTAIN LEAD ≥ AND PCL ARE k )R DEMOLISHEE	know D. Pef	N TO EXIST ON MATERIAR	WEIGHT. PAINT CONTAINING LEAD (PCL) IS ALS, COMPONENTS, AND SURFACES THAT MATERIALS AND COMPONENTS WITH LBP I.	С
2. FLAKING AND PEELING LBP AND ACCORDANCE WITH SECTION 02 83 33.1					ED AND STABILIZED USING METHODS IN	
3. REFER TO THE HAZARDOUS BUIL INFORMATION CONCERNING THE PRESE					NMENTAL, DATED AUGUST 27, 2020, FOR	
SUMMARY	OF AS	SBESTO	S C	ONTAINING	MATERIALS	
DESCRIPTION		LOCATIO	N	EST. QTY.	HATCHING	
INTERIOR & EXTERIOR CAULK - COLOR; C BLACK	GRAY &	BLDG 2 BOILER WINDOWS	RRM	900 LF		
PIPING THERMAL SYSTEMS INSULATION	- COLOR;	BLDG 2 BOILER	R RM	1110 FT <sup>2</sup>		
PIPING THERMAL SYSTEMS FITTINGS - CO YELLOW, GREEN & RED	DLOR;	BLDG 2 BOILER	R RM	85 EACH		
THERMAL SYSTEMS FLUE - COLOR; SILVE	ER	BLDG 2 BOILER	R RM	1500 SF		D
GASKETS / PACKING		BLDG 1 & 2 CONCELED INS BOILER & EQUIPMENT	SIDE	500 EACH	NONE	
DEFECTIVE TRAPS		BUILDING 1		AS NEEDED	NDNE	
				ED PAINT MA		
	-				HATCHING OR	
<b>DESCRIPTION</b> BUILDING 2 - PAINT ON EXTERIOR OF	CON	DITION		EST. QTY.	KEYNOTE	
BUILDING 2 - PAINT ON EXTENSION OF BUILDING 2 - PAINT ON PIPES OF		200R		2000 SQ FT 200 LF		E
BOILER ROOM (ORANGE) BUILDING 2 - PAINT ON EXTERIOR OF BOILERS 1 AND 2 (BLUE)		-00R		800 SQ FT		
BUILDING 2 - END EDGE STRIP OF BOILERS 1 AND 2 (GRAY)	F	POOR		50 LF		
BUILDING 2 - SEAM STRIP OF BOILERS 1 AND 2 (GRAY)	F	POOR		120 LF		
BUILDING 2 - PAINT ON PIPES (YELLOW) SUBGRADE OF BOILER RM BUILDING 2 - PAINT ON PIPES (GREEN)		POOR		500 LF		
SUBGRADE OF BOILER RM BUILDING 2 - VALVE UNDER BOILER 3		200R 200R		50 LF 5 EACH		
PAINTED BLACK	F				///////////////////////////////////////	
					PLAN ACTUAL	F
					NORTH NORTH	
				<u>KEYPLAN</u>		
100% CD	Sl	JBM	-	TTAL		
Project Title VAMC OMAHA - C		CT		Project Number 636-19-301	Office of	
				Building Numbers	Construction	
					and Facilities	
Location OMAHA, NE				Drawing Number	Management	
				HA-100	Department of	
05-14-2021	VWMICC	MÆT		Dwg. of	Veterans Affairs	

	Drawing Title BUILDING 2 HAZARDOUS MATERIALS SUMMARY	Project Title VAMC OMAHA MECHANICAL [			Project Number 636-19-301 Building Numbers	Offic Const and F
SDVOSB in L. Hinz ITECTS, RC. rth 200th Street Vebraska 68022 (402) 291-6941	Approved: Project Director	Location OMAHA, NE Date 05-14-2021	Checked WMICC	Drawn MJEETT	Drawing Number HA-100 Dwg. of	Mana Mana De Vet
6	7	8			9	

5



VA FORM 08-6231

1

2 3 4 5

BUILDING 1 AND 2 ASBESTOS NOTES:

1. THE PROJECT AREA WAS RECENTLY SURVEYED FOR ACM. REFER TO THE HAZARDOUS BUILDING MATERIALS INSPECTION REPORT BY AMI ENVIRONMENTAL, DATED AUGUST 27, 2020 FOR MORE INFORMATION ABOUT ACMS IDENTIFIED IN THE PROJECT AREA.

2. ESTABLISH REGULATED AREA (MINOR DECONTAMINATION AREA) AND REMOVE ACM WINDOW CAULK IN BUILDING 2 BOILER ROOM IN ACCORDANCE WITH CLASS II REMOVAL SECTIONS 02 82 13-31.

3. ESTABLISH REGULATED AREA AND REMOVE THERMAL SYSTEM INSULATION (TSI) COVERED PIPE AND FITTINGS USING GLOVEBAG ABATEMENT METHODS AS REQUIRED BY SECTION 02 82 13-13. FOR SECTIONS OF PIPE TO BE DEMOLISHED, WRAP AND CUT METHODS MAY BE USED ONLY IF APPROVED BY THE GENERAL CONTRACTOR. USE GLOVEBAG ABATEMENT METHODS TO REMOVE ACM THAT REMAINS IN WALL PENETRATIONS. WHEN GLOVEBAG METHODS ARE NOT FEASIBLE, USE FULL CONTAINMENT AND ISOLATION PROCEDURES (MAJOR DECONTAMINATION AREAS) IN ACCORDANCE WITH SECTION 02 82 11, TRADITIONAL ASBESTOS ABATEMENT.

4. GASKETS/PACKINGS ARE PRESENT IN PIPE VALVES, PUMPS, BOILERS AND EQUIPMENT WITHIN THE INSPECTION AREA. GASKETS/PACKINGS ARE CONCEALED AND UNABLE TO BE SAMPLED. GASKETS/PACKINGS ARE ASSUMED AS ACM UNLESS SAMPLED, ANALYZED, AND FOUND AS NON-ACM. WHEN GLOVEBAG METHODS ARE NOT FEASIBLE, USE FULL CONTAINMENT AND ISOLATION PROCEDURES (MAJOR DECONTAMINATION AREAS) IN ACCORDANCE WITH SECTION 02 82 11, TRADITIONAL ASBESTOS ABATEMENT.

5. CONCEALED ACM PIPE INSULATION (TSI) MAY EXIST WITHIN WALLS, PIPE CHASES AND ABOVE RIGID CEILINGS. COORDINATE ACCESS WITH DEMOLITION DRAWINGS AND THE GENERAL CONTRACTOR. SOME EXPLORATORY DEMOLITION MAY BE REQUIRED TO DETERMINE IF CONCEALED ACM IS PRESENT.

6. ASSUME 50% EFFICIENCY WHEN CALCULATING NAM REQUIREMENTS FOR ACHIEVING FOUR (4) AIR CHANGES PER HOUR AND PROVIDED GREATER THAN -0.02" WCG PRESSURE. CONFIGURE AND PLACE NAMS AS NEEDED TO MAXIMIZE AIR MOVEMENT AND PREVENT DEAD AIR SPACE. COORDINATE NEGATIVE AIR DISCHARGE LOCATIONS WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, AND VPIH, IF NEEDED.

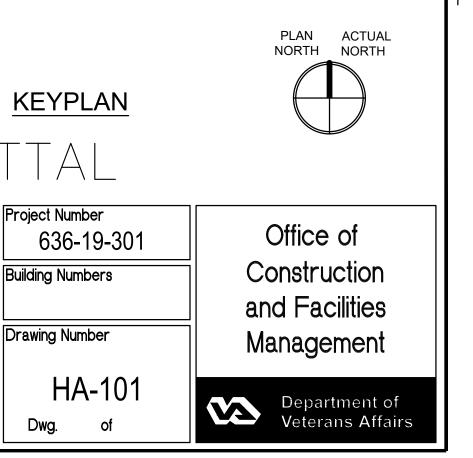
7. THE ABATEMENT CONTRACTOR SHALL WORK CLOSELY WITH THE GENERAL CONTRACTOR, CONTRACTING OFFICER, OWNER OR OWNER'S REPRESENTATIVE, AND/OR THE VPIH TO COORDINATE REMOVAL OF ACM IN ACCORDANCE WITH PROJECT SCHEDULING, SEQUENCING, AND PHASING REQUIREMENTS. SOME AFTER HOURS AND WEEK-END WORK MAY BE REQUIRED. PHASING IS SUBJECT TO CHANGE TO ACCOMMODATE SITE CONDITIONS AND FACILITY OPERATIONS.

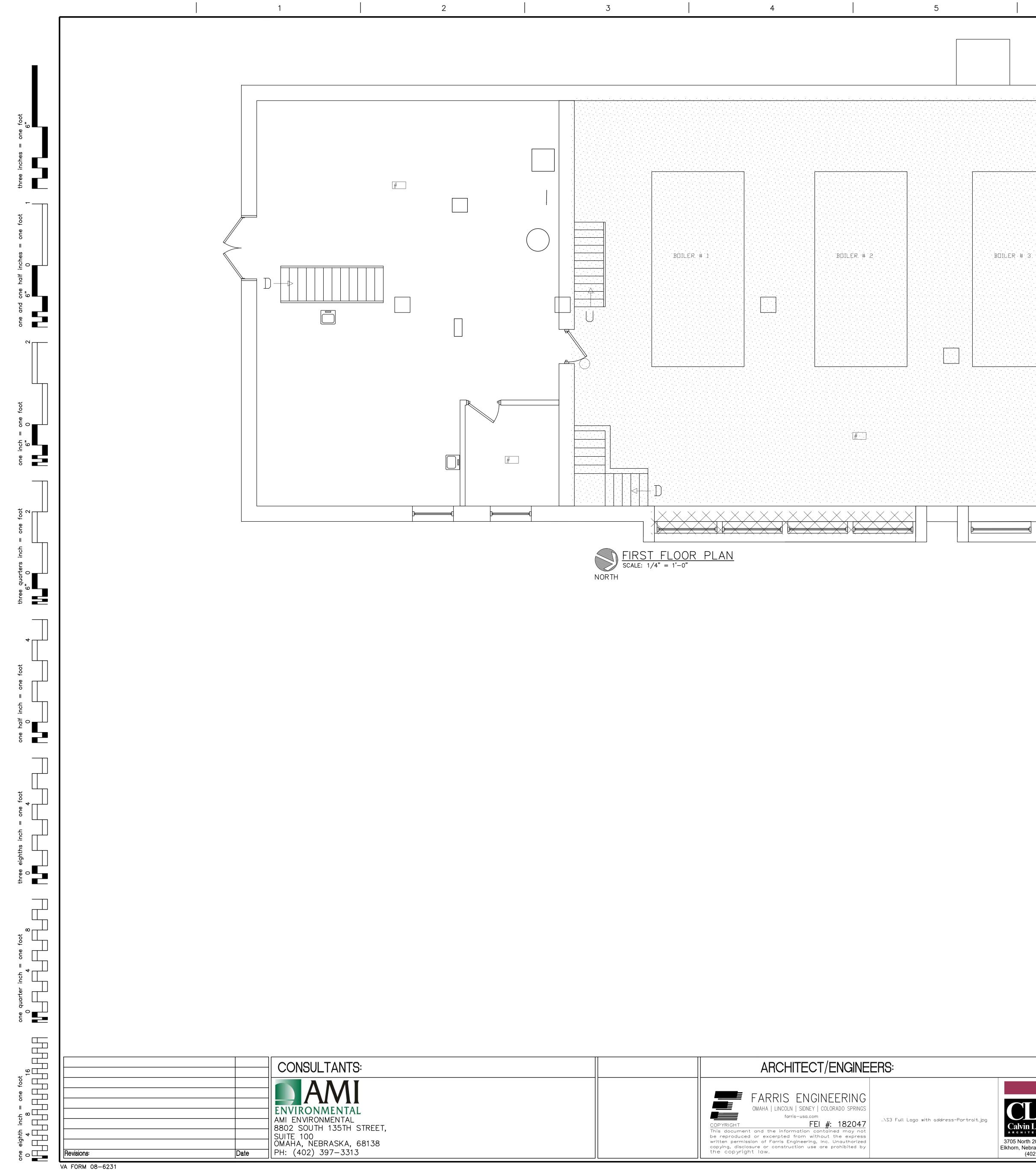
ASBESTOS ABATEMENT PHASING:

1. THE ABATEMENT CONTRACTOR SHALL WORK CLOSELY WITH THE GENERAL CONTRACTOR, CONTRACTING OFFICER, OWNER OR OWNER'S REPRESENTATIVE, AND/OR THE VPIH TO COORDINATE REMOVAL OF ACM IN ACCORDANCE WITH PROJECT SCHEDULING, SEQUENCING, AND PHASING REQUIREMENTS. SOME AFTER HOURS AND WEEK-END WORK MAY BE REQUIRED. PHASING IS SUBJECT TO CHANGE TO ACCOMMODATE SITE CONDITIONS AND FACILITY OPERATIONS.

SUMMARY OF ASBESTOS CONTAINING MATERIALS									
DESCRIPTION	LOCATION	EST. QTY.	HATCHING						
INTERIOR & EXTERIOR CAULK - COLOR; GRAY & BLACK	BLDG 2 BOILER RM WINDOWS	900 LF							
PIPING THERMAL SYSTEMS INSULATION - COLOR; YELLOW & RED	BLDG 2 BOILER RM	1110 FT <sup>2</sup>							
PIPING THERMAL SYSTEMS FITTINGS - COLOR; YELLOW, GREEN & RED	BLDG 2 BOILER RM	85 EACH							
THERMAL SYSTEMS FLUE - COLOR; SILVER	BLDG 2 BOILER RM	1500 SF							
GASKETS / PACKING	BLDG 1 & 2 CONCELED INSIDE BOILER & EQUIPMENT	500 EACH	NDNE						
DEFECTIVE TRAPS	BUILDING 1	AS NEEDED	NDNE						

			10	0%	CD SL	JBMI		
	Drawing Title BUILDING 2 HAZA MATERIALS ASBE BASEMENT PLAN				HA - CORREC AL DEFICIENC		Project Number 636-19 Building Number	9-30
SDVOSB VINLAHINZ HITECTS, RC. North 200th Street N. Nebraska 68022	Approved: Project Director			Location OMAHA Date 05-14-2021	, NE Checked WMICC	Drawn MÆTT	Drawing Number	
(402) 291-6941 6	]	7		8		 	9	





ARCHITECT/ENGINE	ERS:

1 2 3 4 5





BUILDING 1 AND 2 ASBESTOS NOTES:

1. THE PROJECT AREA WAS RECENTLY SURVEYED FOR ACM. REFER TO THE HAZARDOUS BUILDING MATERIALS INSPECTION REPORT BY AMI ENVIRONMENTAL, DATED AUGUST 27, 2020 FOR MORE INFORMATION ABOUT ACMS IDENTIFIED IN THE PROJECT AREA. 2. ESTABLISH REGULATED AREA (MINOR DECONTAMINATION AREA) AND REMOVE ACM WINDOW CAULK IN BUILDING 2 BOILER ROOM IN

ACCORDANCE WITH CLASS II REMOVAL SECTIONS 02 82 13-31.

3. ESTABLISH REGULATED AREA AND REMOVE THERMAL SYSTEM INSULATION (TSI) COVERED PIPE AND FITTINGS USING GLOVEBAG ABATEMENT METHODS AS REQUIRED BY SECTION 02 82 13-13. FOR SECTIONS OF PIPE TO BE DEMOLISHED, WRAP AND CUT METHODS MAY BE USED ONLY IF APPROVED BY THE GENERAL CONTRACTOR. USE GLOVEBAG ABATEMENT METHODS TO REMOVE ACM THAT REMAINS IN WALL PENETRATIONS. WHEN GLOVEBAG METHODS ARE NOT FEASIBLE, USE FULL CONTAINMENT AND ISOLATION PROCEDURES (MAJOR DECONTAMINATION AREAS) IN ACCORDANCE WITH SECTION 02 82 11, TRADITIONAL ASBESTOS ABATEMENT.

4. GASKETS/PACKINGS ARE PRESENT IN PIPE VALVES, PUMPS, BOILERS AND EQUIPMENT WITHIN THE INSPECTION AREA. GASKETS/PACKINGS ARE CONCEALED AND UNABLE TO BE SAMPLED. GASKETS/PACKINGS ARE ASSUMED AS ACM UNLESS SAMPLED, ANALYZED, AND FOUND AS NON-ACM. WHEN GLOVEBAG METHODS ARE NOT FEASIBLE, USE FULL CONTAINMENT AND ISOLATION PROCEDURES (MAJOR DECONTAMINATION AREAS) IN ACCORDANCE WITH SECTION 02 82 11, TRADITIONAL ASBESTOS ABATEMENT.

5. CONCEALED ACM PIPE INSULATION (TSI) MAY EXIST WITHIN WALLS, PIPE CHASES AND ABOVE RIGID CEILINGS. COORDINATE ACCESS WITH DEMOLITION DRAWINGS AND THE GENERAL CONTRACTOR. SOME EXPLORATORY DEMOLITION MAY BE REQUIRED TO DETERMINE IF CONCEALED ACM IS PRESENT.

6. ASSUME 50% EFFICIENCY WHEN CALCULATING NAM REQUIREMENTS FOR ACHIEVING FOUR (4) AIR CHANGES PER HOUR AND PROVIDED GREATER THAN -0.02" WCG PRESSURE. CONFIGURE AND PLACE NAMS AS NEEDED TO MAXIMIZE AIR MOVEMENT AND PREVENT DEAD AIR SPACE. COORDINATE NEGATIVE AIR DISCHARGE LOCATIONS WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, AND VPIH, IF NEEDED.

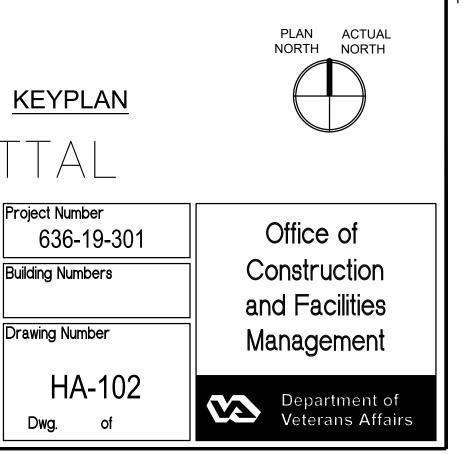
7. THE ABATEMENT CONTRACTOR SHALL WORK CLOSELY WITH THE GENERAL CONTRACTOR, CONTRACTING OFFICER, OWNER OR OWNER'S REPRESENTATIVE, AND/OR THE VPIH TO COORDINATE REMOVAL OF ACM IN ACCORDANCE WITH PROJECT SCHEDULING, SEQUENCING, AND PHASING REQUIREMENTS. SOME AFTER HOURS AND WEEK-END WORK MAY BE REQUIRED. PHASING IS SUBJECT TO CHANGE TO ACCOMMODATE SITE CONDITIONS AND FACILITY OPERATIONS.

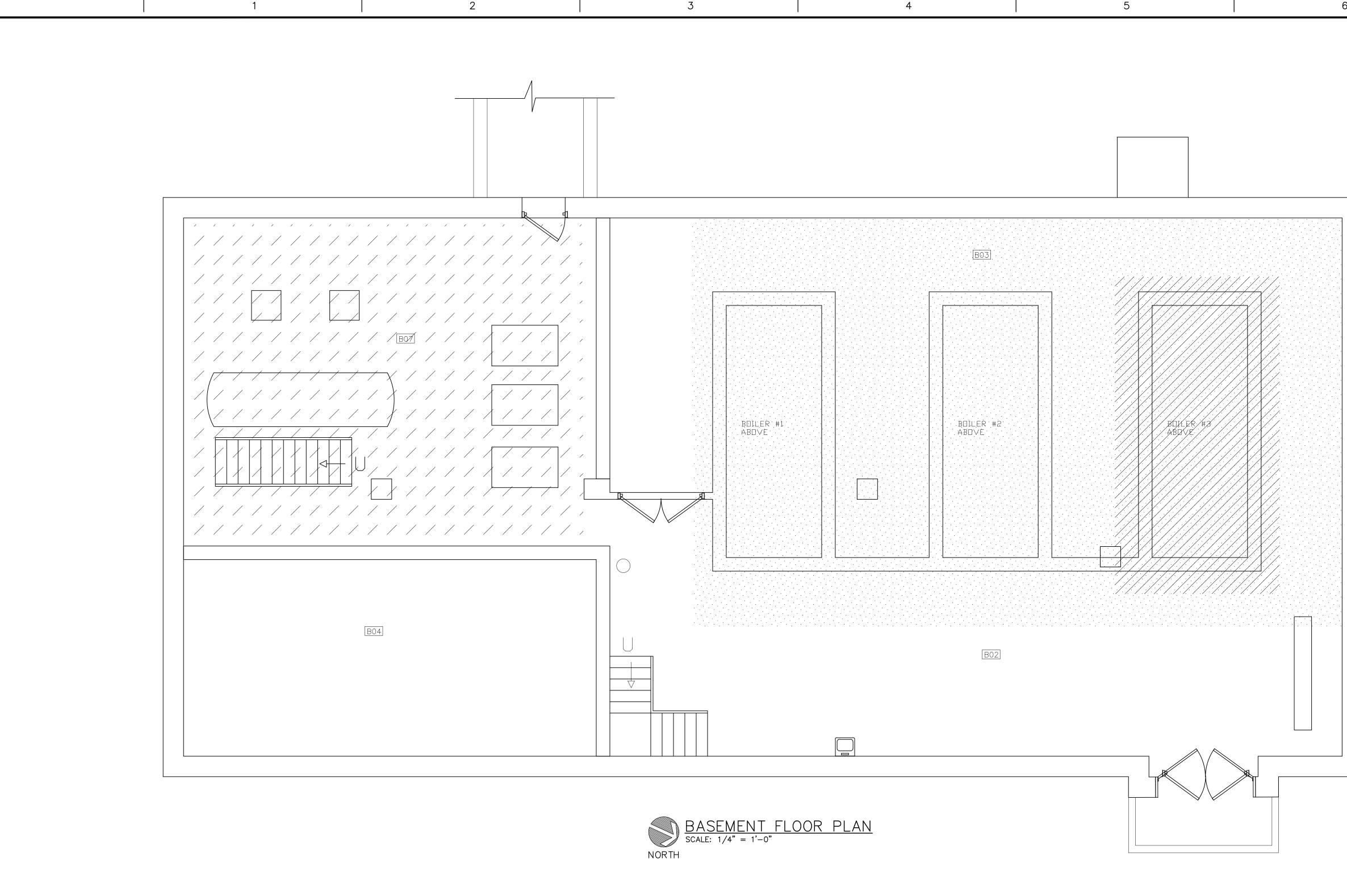
ASBESTOS ABATEMENT PHASING:

1. THE ABATEMENT CONTRACTOR SHALL WORK CLOSELY WITH THE GENERAL CONTRACTOR, CONTRACTING OFFICER, OWNER OR OWNER'S REPRESENTATIVE, AND/OR THE VPIH TO COORDINATE REMOVAL OF ACM IN ACCORDANCE WITH PROJECT SCHEDULING, SEQUENCING, AND PHASING REQUIREMENTS. SOME AFTER HOURS AND WEEK-END WORK MAY BE REQUIRED. PHASING IS SUBJECT TO CHANGE TO ACCOMMODATE SITE CONDITIONS AND FACILITY OPERATIONS.

SUMMARY OF ASBESTOS CONTAINING MATERIALS								
DESCRIPTION	HATCHING							
INTERIOR & EXTERIOR CAULK - COLOR; GRAY & BLACK	BLDG 2 BOILER RM WINDOWS	900 LF						
PIPING THERMAL SYSTEMS INSULATION - COLOR; YELLOW & RED	BLDG 2 BOILER RM	1110 FT <sup>2</sup>						
PIPING THERMAL SYSTEMS FITTINGS - COLOR; YELLOW, GREEN & RED	BLDG 2 BOILER RM	85 EACH						
THERMAL SYSTEMS FLUE - COLOR; SILVER	BLDG 2 BOILER RM	1500 SF						
GASKETS / PACKING	BLDG 1 & 2 CONCELED INSIDE BOILER & EQUIPMENT	500 EACH	NDNE					
DEFECTIVE TRAPS	BUILDING 1	AS NEEDED	NDNE					

								NETP	LAIN
				1 ()	0% CE	) Sl	BMI	TTA	
:		Drawing Title BUILDING 2 HAZAI	RDOUS		Project Title VAMC OMAHA -	CORRECT		Project Numl 636-	<sup>ber</sup> 19-301
		MATERIALS ASBE	STOS FIRST		MECHANICAL D	EFICIENCI	ES	Building Num	bers
3 Full Logo with address-Portrait.jpg	Calvin L. Hinz	Approved: Project Director			Location OMAHA, NE			Drawing Num	
	ARCHITECTS, RG. CLH PROJECT 3705 North 200th Street NO: 18-013 Elkhorn, Nebraska 68022 (402) 291-6941				Date 05-14-2021	Checked WHC	Drawn MET	HA Dwg.	v-102
	6		7		8			9	





	CONSULTANTS:
Revisions:	Date

------ ۱

		I

# ARCHITECT/ENGINEERS: FARRIS ENGINEERING OMAHA LINCOLN SIDNEY COLORADO SPRINGS



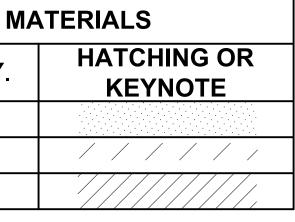
LEAD NOTES:

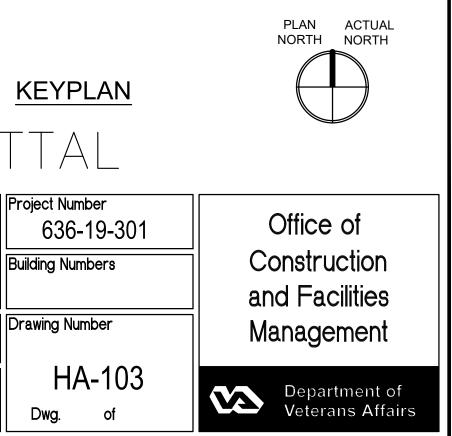
1. LBP IS KNOWN TO EXIST ON MATERIALS, COMPONENTS, AND SURFACES THAT MAY BE DISTURBED, PENETRATED, REFINISHED, OR DEMOLISHED. PERFORM DEMOLITION OF MATERIALS AND COMPONENTS WITH LBP AND/OR PCL IN ACCORDANCE WITH APPLICABLE REGULATIONS, SECTION 02 83 33.13, LEAD-BASED PAINT REMOVAL AND DISPOSAL AND THE APPROVED WORK PLAN.

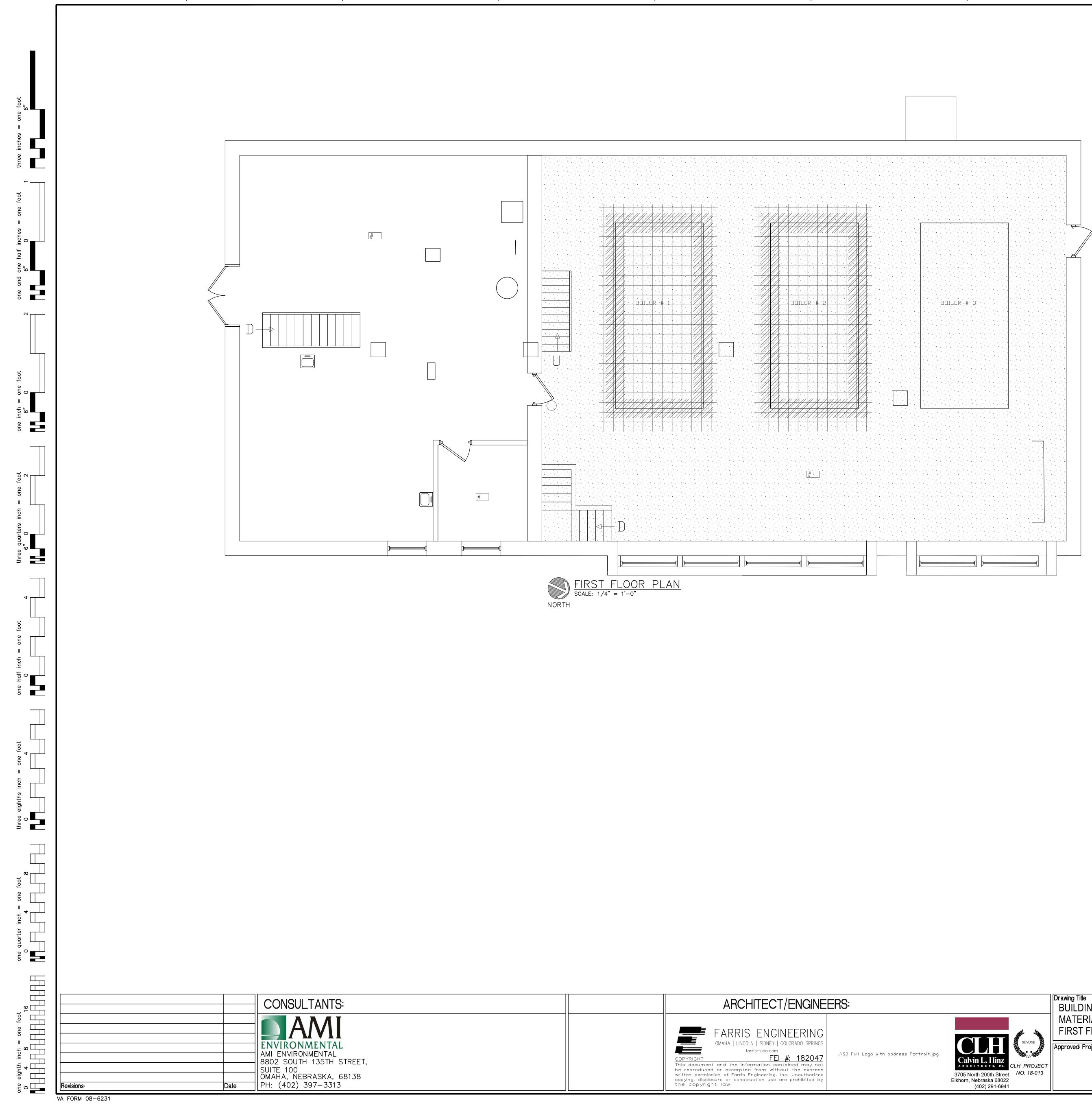
2. CONCEALED LBP MAY BE PRESENT ON SURFACES BEHIND WALLS AND MAY BE IMPACTED FOR PENETRATIONS, OR WALL DEMOLITION. LBP DUST MUST BE CONTROLLED ACCORDING TO 29 CFR 1926.62. PERFORM CLEANUP AND DISPOSAL OF LBP DUST AND DEBRIS IN ACCORDANCE WITH SECTION 02 83 33.13, LEAD-BASED PAINT REMOVAL AND DISPOSAL.

SUMMARY OF LEAD-BASED PAINT N								
CONDITION	EST. QTY.							
POOR	500 LF							
POOR	50 LF							
POOR	5 EACH							
	POOR POOR							

									10	0% C[	) SL	JBMI	TTAL	
	- CONSULTANTS:			ARCHITECT/ENGINE	ERS:		Drawing Title BUILDING 2 HAZARE	DOUS		Project Title VAMC OMAHA	- CORRECT	-	Project Number 636-19-301	0
				FARRIS ENGINEERING		SDVOSB	MATERIALS LEAD BASEMENT PLAN	ASED PAINT		MECHANICAL [	DEFICIENCI	ES	Building Numbers	Cor ano
	- ENVIRONMENTAL AMI ENVIRONMENTAL 8802 SOUTH 135TH STREET,		COPYRIGHT This documen	farris-usa.com <u>FEI #: 182047</u> nt and the information contained may not	\S3 Full Logo with address-Portrait.jpg	Calvin L. Hinz ARCHITECTS, PC.	Approved: Project Director			Location OMAHA, NE			Drawing Number	Mar
Date	SUITE 100 OMAHA, NEBRASKA, 68138 PH: (402) 397–3313		written permis	ed or excerpted from without the express ssion of Farris Engineering, Inc. Unauthorized osure or construction use are prohibited by ght law.		3705 North 200th Street NO: 18-013 Elkhorn, Nebraska 68022 (402) 291-6941				Date 05-14-2021	Checked WHC	Drawn MET	HA-103 Dwg. of	V.







1

1

	ARCHITECT/ENGINEERS:	
	FARRIS ENGINEERING         OMAHA   LINCOLN   SIDNEY   COLORADO SPRINGS         farris-usa.com         COPYRIGHT         FEI #: 182047         This document and the information contained may not         be reproduced or excerpted from without the express         written permission of Farris Engineering, Inc. Unauthorized         copyright law.	370 Elkho
3	4 5	



LEAD NOTES:

1. LBP IS KNOWN TO EXIST ON MATERIALS, COMPONENTS, AND SURFACES THAT MAY BE DISTURBED, PENETRATED, REFINISHED, OR DEMOLISHED. PERFORM DEMOLITION OF MATERIALS AND COMPONENTS WITH LBP AND/OR PCL IN ACCORDANCE WITH APPLICABLE REGULATIONS, SECTION 02 83 33.13, LEAD-BASED PAINT REMOVAL AND DISPOSAL AND THE APPROVED WORK PLAN.

2. CONCEALED LBP MAY BE PRESENT ON SURFACES BEHIND WALLS AND MAY BE IMPACTED FOR PENETRATIONS, OR WALL DEMOLITION. LBP DUST MUST BE CONTROLLED ACCORDING TO 29 CFR 1926.62. PERFORM CLEANUP AND DISPOSAL OF LBP DUST AND DEBRIS IN ACCORDANCE WITH SECTION 02 83 33.13, LEAD-BASED PAINT REMOVAL AND DISPOSAL.

SUMMARY OF LEAD-BASED PAINT MATERIALS								
DESCRIPTION	CONDITION	EST. QTY.	HATCHING OR KEYNOTE					
BUILDING 2 - PAINT ON EXTERIOR OF BOILER 1 (GRAY)	POOR	2000 SQ FT						
BUILDING 2 - PAINT ON PIPES OF BOILER ROOM (ORANGE)	POOR	200 LF						
BUILDING 2 - PAINT ON EXTERIOR OF BOILERS 1 AND 2 (BLUE)	POOR	800 SQ FT						
BUILDING 2 - END EDGE STRIP OF BOILERS 1 AND 2 (GRAY)	POOR	50 LF						
BUILDING 2 - SEAM STRIP OF BOILERS 1 AND 2 (GRAY)	POOR	120 LF						

### 100% CD SUBMITTAL Drawing Title BUILDING 2 HAZARDOUS Project Title VAMC OMAHA - CORRECT Project Number 636-19-301 MATERIALS LEAD BASED PAINT MECHANICAL DEFICIENCIES Building Numbers FIRST FLOOR PLAN Approved: Project Director Drawing Number Location OMAHA, NE Drawn Checked IDate MET WHC 05-14-2021 Dwg. | 6 7 8 9

А

