

A. WORK IN BUILDING 408 TO BE BID AS DEDUCT ALT. #4.

1. REPLACE EXISTING PANEL WITH NEW. RETERMINATE ALL EXISTING CONDUITS TO NEW TUB. EXTEND FEEDERS AND BRANCH CIRCUITRY AS REQUIRED TO ACCOMMODATE NEW PANELBOARD. REFER TO PANEL SCHEDULE AND FLOOR PLANS FOR ADDITIONAL REQUIREMENTS.
2. RUN 4-#3 THHN, #8 GND IN 1.25".

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	MAIN	100 A	3	0 VA	0 VA					--	--	Space	2
3		--	--	--	--	0 VA	0 VA			--	--	Space	4
5		--	--	--	--			0 VA	0 VA			Space	6
7	EXISTING	20 A	3	0 VA	0 VA					3	20 A	EXISTING	8
9		--	--	--	--	0 VA	0 VA			--	--		10
11		--	--	--	--			0 VA	0 VA	--	--		12
13	EXISTING	20 A	1	0 VA	0 VA					1	20 A	EXISTING	14
15	EXISTING	20 A	3			0 VA	0 VA			2	20 A	EXISTING	16
17		--	--	--	--			0 VA	0 VA	2	20 A		18
19		--	--	--	--							EXISTING	20
21	EXISTING	20 A	3	0 VA	0 VA	0 VA	0 VA						22
23		--	--	--	--			0 VA	0 VA	3	20 A	EXISTING	24
25		--	--	0 VA	0 VA					--	--		26
27	EXISTING	20 A	3			0 VA	0 VA			--	--		28
29		--	--	--	--			0 VA	0 VA	2	20 A	EXISTING	30
31		--	--	0 VA	0 VA								32
33	EXISTING	20 A	1			0 VA	0 VA			1	20 A	EXISTING	34
35	EXISTING	20 A	2					0 VA	0 VA	2	20 A	EXISTING	36
37		--	--	0 VA	0 VA					--	--		38
39	Space	--	--			0 VA	0 VA			--	--	Space	40
41	Space	--	--					0 VA	0 VA	--	--	Space	42

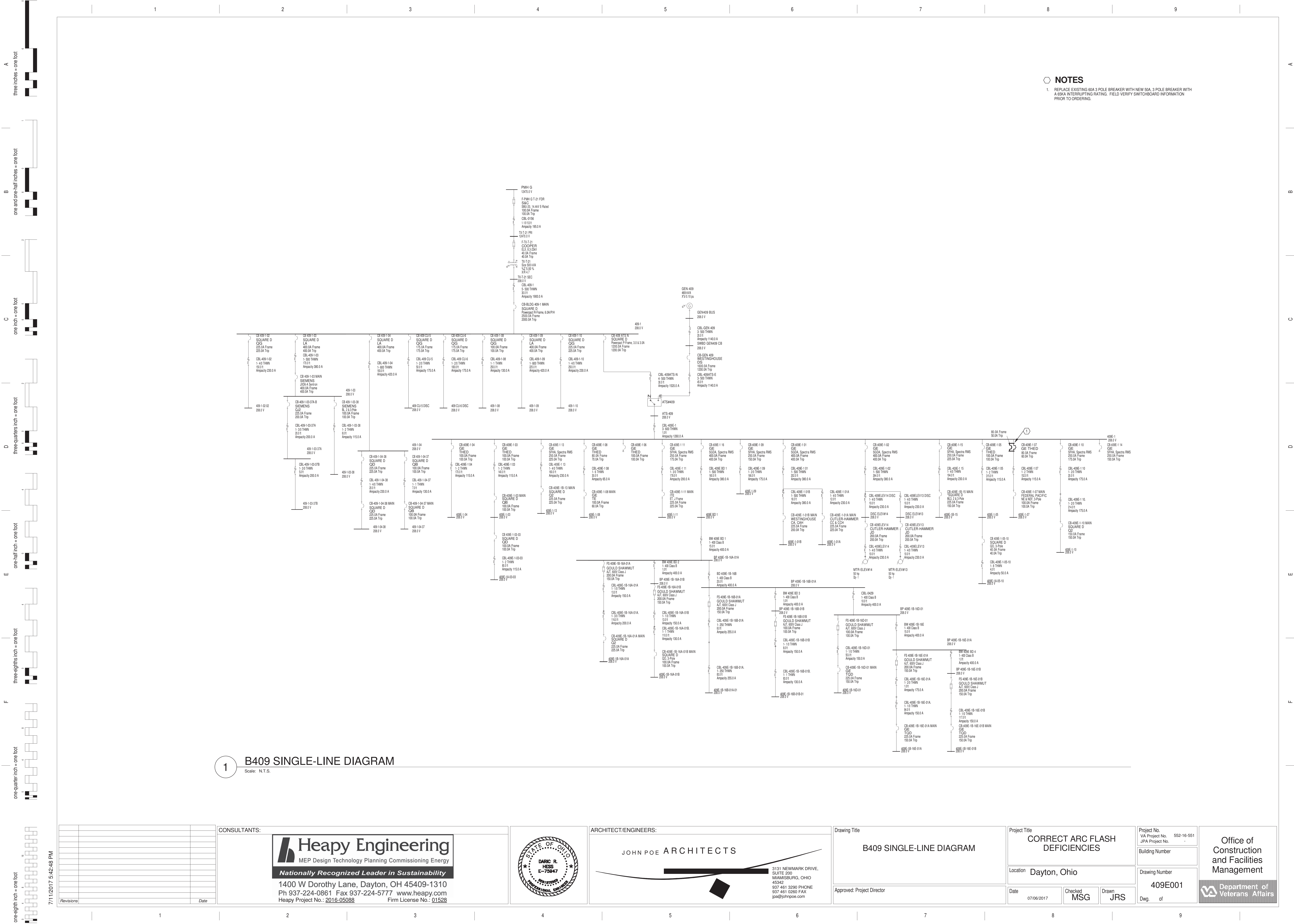
Notes: NEW PANELBOARD

<b>TOTAL CONNECTED</b>		<b>ESTIMATED DEMAND</b>
0 kVA		0 kVA (0 A)



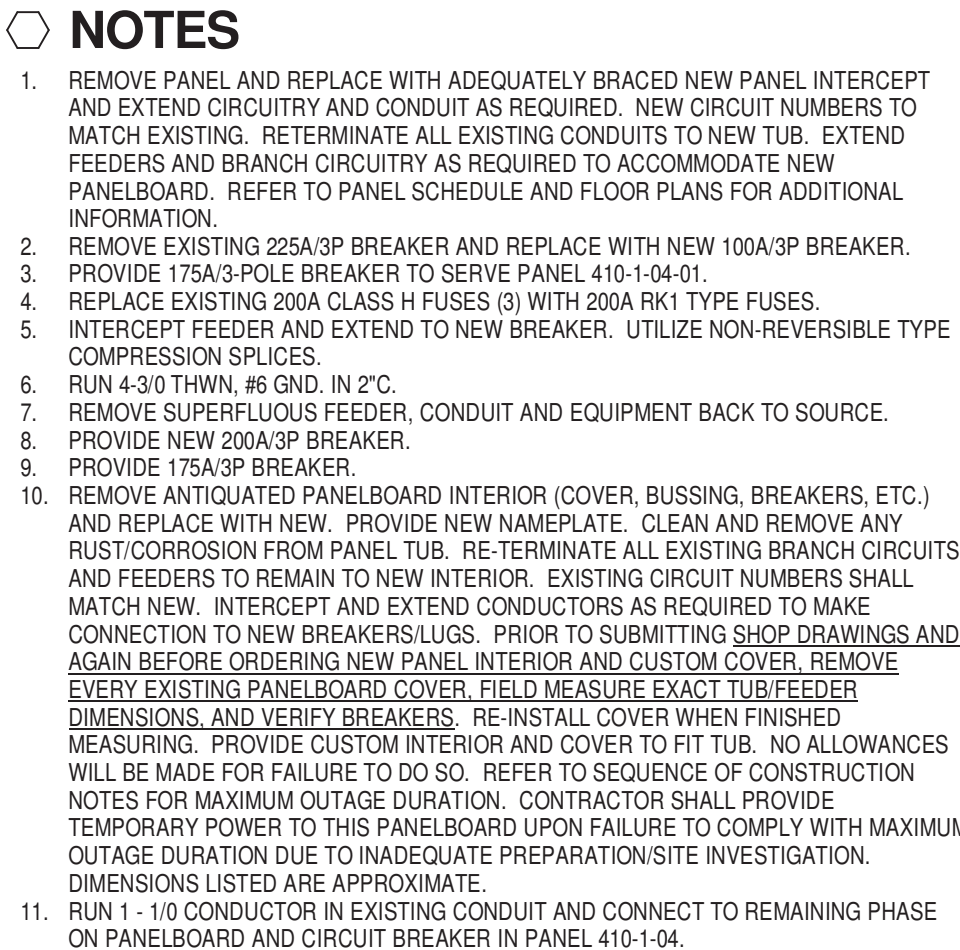






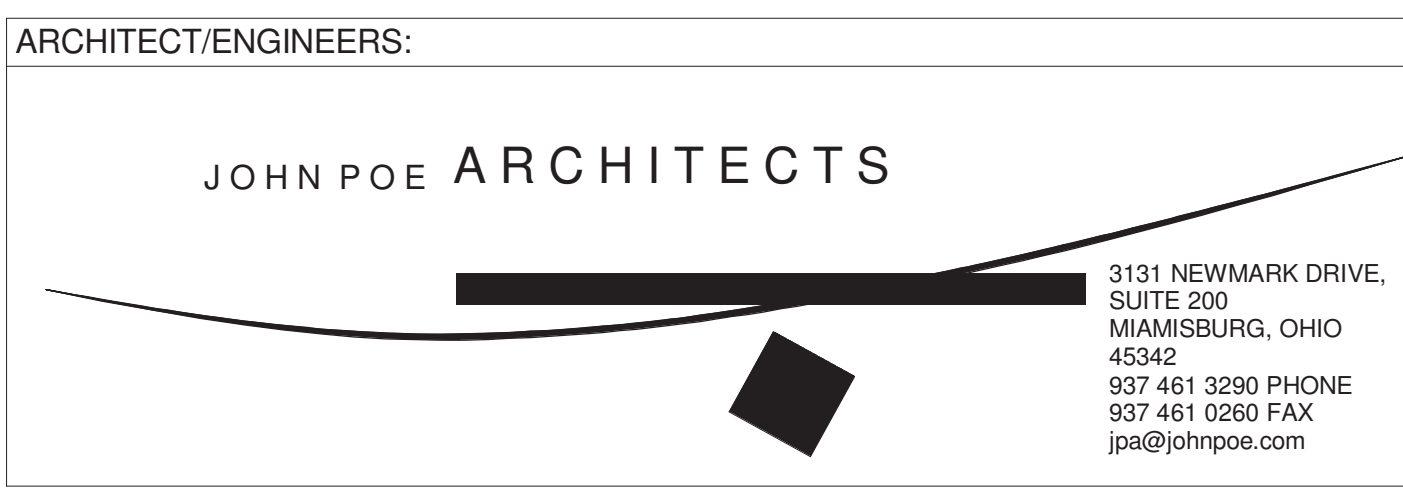







CONSULTANTS:

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Heapy Project No.: 2016-05088 Firm License No.: 01528



Project Title <b>CORRECT ARC FLASH DEFICIENCIES</b>			Project No. VA Project No. 552-16-551 JPA Project No. -		Office of Construction and Facilities Management
Location <b>Dayton, Ohio</b>			Building Number		
Date 07/06/2017			Drawing Number  <b>410E001</b>		
Checked <b>MSG</b>	Drawn <b>JRS</b>	Dwg. of		 <b>Department of Veterans Affairs</b>	



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

Panel: 410-1-04													
Location: Corridor 0C-G-1				Mounting: Surface				A.I.C. Rating: 42,000					
Supply From: 410-1				Enclosure: Type 1				Mains Type: M.L.O					
Voltage: 120/208 Wye-3PH-4W								Mains Rating: 400 A					
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EXISTING	20 A	1	0 VA	0 VA					1	20 A	Spare	2
3	EXISTING	20 A	1			0 VA	0 VA			1	20 A	EXISTING	4
5	EXISTING	20 A	1					0 VA	0 VA	1	20 A	EXISTING	6
7	EXISTING	20 A	1	0 VA	0 VA					1	20 A	EXISTING	8
9	EXISTING	20 A	1			0 VA	0 VA			1	20 A	Spare	10
11	EXISTING	20 A	1					0 VA	0 VA	1	20 A	Spare	12
13	EXISTING	20 A	1	0 VA	0 VA					1	20 A	EXISTING	14
15	EXISTING	100 A	3			0 VA	0 VA			1	20 A	EXISTING	16
17	--	--	--					0 VA	0 VA	1	20 A	EXISTING	18
19	--	--	--			0 VA	0 VA			1	20 A	EXISTING	20
21	EXISTING	100 A	3			0 VA	0 VA			1	20 A	Spare	22
23	--	--	--					0 VA	0 VA	2	30 A	EXISTING	24
25	--	--	--	0 VA	0 VA					--	--	--	26
27	EXISTING	20 A	3			0 VA	0 VA			3	50 A	EXISTING	28
29	--	--	--					0 VA	0 VA	--	--	--	30
31	--	--	--	0 VA	0 VA					--	--	--	32
33	EXISTING	40 A	2			0 VA	0 VA			2	60 A	EXISTING	34
35	--	--	--					0 VA	0 VA	--	--	--	36
37	Space	--	--	0 VA	0 VA					3	175 A	410-1-04-01	38
39	Space	--	--			0 VA	0 VA			--	--	--	40
41	Space	--	--					0 VA	0 VA	--	--	--	42
Total Load:				0.00 kVA		0.00 kVA		0.00 kVA					
Notes: NEW PANELBOARD													
TOTAL CONNECTED								ESTIMATED DEMAND					
0 kVA								0 kVA (0 A)					

Panel: 410-1-04-21													
Location: Patient Storage 9				Mounting: Surface				A.I.C. Rating: 22,000					
Supply From: 410-1-04				Enclosure: Type 1				Mains Type: M.L.O					
Voltage: 120/208 Wye-3PH-4W								Mains Rating: 100 A					
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EXISTING	15 A	1	0 VA	0 VA					2	15 A	EXISTING	2
3	EXISTING	30 A	1			0 VA	0 VA			--	--	--	4
5	EXISTING	20 A	2					0 VA	0 VA	2	30 A	Spare	6
7	--	--	--	0 VA	0 VA					--	--	--	8
9	EXISTING	40 A	2			0 VA	0 VA			2	50 A	EXISTING	10
11	--	--	--					0 VA	0 VA	--	--	--	12
13	EXISTING	15 A	1	0 VA	0 VA					1	15 A	EXISTING	14
15	EXISTING	15 A	1			0 VA	0 VA			1	15 A	EXISTING	16
17	EXISTING	15 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Space	--	--	0 VA	0 VA					--	--	Space	26
27	Space	--	--			0 VA	0 VA			--	--	Space	28
29	Space	--	--					0 VA	0 VA	--	--	Space	30
Total Load:				0.00 kVA		0.00 kVA		0.00 kVA					
Notes: NEW PANELBOARD INTERIOR AND TUB.													
TOTAL CONNECTED								ESTIMATED DEMAND					
0 kVA								0 kVA (0 A)					

Panel: 410-1-04-34													
Location: Storage 4				Mounting: Surface				A.I.C. Rating: 22,000					
Supply From: 410-1-04				Enclosure: Type 1				Mains Type: M.L.O					
Voltage: 120/208 Wye-3PH-4W								Mains Rating: 100 A					
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EXISTING	30 A	1	0 VA	0 VA					1	15 A	EXISTING	2
3	EXISTING	20 A	1			0 VA	0 VA			1	15 A	EXISTING	4
5	EXISTING	20 A	1					0 VA	0 VA	1	20 A	Spare	6
7	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	8
9	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	10
11	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	12
13	Space	--	--	0 VA	0 VA					--	--	Space	14
15	Space	--	--			0 VA	0 VA			--	--	Space	16
17	Space	--	--					0 VA	0 VA	--	--	Space	18
19	Space	--	--	0 VA	0 VA					--	--	Space	20
21	Space	--	--			0 VA	0 VA			--	--	Space	22
23	Space	--	--					0 VA	0 VA	--	--	Space	24
25	Space	--	--	0 VA	0 VA					--	--	Space	26
27	Space	--	--			0 VA	0 VA			--	--	Space	28
29	Space	--	--					0 VA	0 VA	--	--	Space	30
Total Load:				0.00 kVA		0.00 kVA		0.00 kVA					
Notes: NEW PANELBOARD.													
TOTAL CONNECTED								ESTIMATED DEMAND					
0 kVA								0 kVA (0 A)					

Panel: 410E-1-5													
Location: Corridor 0C-G-1				Mounting: Recessed				A.I.C. Rating: 22,000					
Supply From: 410E-1				Enclosure: Type 1				Mains Type: M.L.O					
Voltage: 120/208 Wye-3PH-4W								Mains Rating: 225 A					
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EXISTING	20 A	1	0 VA	0 VA					1	20 A	EXISTING	2
3	EXISTING	20 A	2			0 VA	0 VA			1	20 A	EXISTING	4
5	--	--	--					0 VA	0 VA	1	20 A	EXISTING	6
7	EXISTING	20 A	1	0 VA	0 VA					1	20 A	EXISTING	8
9	EXISTING	20 A	1			0 VA	0 VA			1	20 A	EXISTING	10
11	EXISTING	20 A	1					0 VA	0 VA	1	20 A	EXISTING	12
13	EXISTING	20 A	1	0 VA	0 VA					3	20 A	EXISTING	14
15	EXISTING	20 A	1			0 VA	0 VA			--	--	--	16
17	EXISTING	20 A	1					0 VA	0 VA	--	--	--	18
19	EXISTING	30 A	3	0 VA	0 VA					3	20 A	EXISTING	20
21	--	--	--			0 VA	0 VA			--	--	--	22
23	--	--	--					0 VA	0 VA	--	--	--	24
25	EXISTING	100 A	3	0 VA	0 VA					3	100 A	EXISTING	26
27	--	--	--			0 VA	0 VA			--	--	--	28
29	--	--	--					0 VA	0 VA	--	--	--	30
Total Load:				0.00 kVA		0.00 kVA		0.00 kVA					
Notes: NEW PANELBOARD INTERIOR.													
TOTAL CONNECTED									ESTIMATED DEMAND				
0 kVA									0 kVA (0 A)				

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Revisions

Date

CONSULTANTS:

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Drawing Title

B410 PANELBOARD SCHEDULES

Approved: Project Director

Project Title

CORRECT ARC FLASH DEFICIENCIES

Location Dayton, Ohio

Date 07/06/2017

Checked Approver

Drawn Designer

Project No.

VA Project No. 552-16-551  
JPA Project No. -

Building Number

Drawing Number 410E002

Dwg. of

Office of Construction and Facilities Management

Department of Veterans Affairs

three inches = one foot

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three-quarters inch = one foot

one-half inch = one foot

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Panel: 412-1-04A

Location: Corridor-1 C/B-1-1

Supply From: 412-1

Voltage: 120/208 Vys-SPH-4W

Mounting: Surface

Enclosure: Type 1

A.I.C. Rating: 10,000A

Mains Type: MLO

Mainns Rating: 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EXISTING	20 A	1	0 VA	0 VA					1	20 A	EXISTING	2
3	EXISTING	20 A	1			0 VA	0 VA			1	20 A	EXISTING	4
5	EXISTING	20 A	1					0 VA	0 VA	1	20 A	EXISTING	6
7	EXISTING	20 A	1	0 VA	0 VA					1	20 A	EXISTING	8
9	EXISTING	20 A	1			0 VA	0 VA			1	20 A	EXISTING	10
11	EXISTING	30 A	1					0 VA	0 VA	1	30 A	EXISTING	12
13	EXISTING	20 A	1	0 VA	0 VA					1	30 A	EXISTING	14
15	EXISTING	50 A	2			0 VA	0 VA			1	30 A	EXISTING	16
17								0 VA	0 VA	1	20 A	EXISTING	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Space	--	--	0 VA	0 VA					--	--	Space	26
27	Space	--	--			0 VA	0 VA			--	--	Space	28
29	Space	--	--					0 VA	0 VA	--	--	Space	30
Total Load:				0.00 kVA		0.00 kVA		0.00 kVA					

Notes: PROVIDE FEED THRU LUGS.  
NEW PANELBOARDS.

TOTAL CONNECTED				ESTIMATED DEMAND	
0 kVA				0 kVA (0 A)	

Panel: 412-1-03

Location: Corridor 1 C-B-1-1

Mounting: Surface

A.I.C. Rating: 10,000A

Supply From: 412-1

Enclosure: Type 1

Mains Type: MLO

Main Type: MLO

Voltage: 120/208 Wye-3PH-4W

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EXISTING	20 A	1	0 VA	0 VA					1	20 A	EXISTING	2
3	EXISTING	20 A	1			0 VA	0 VA			1	20 A	EXISTING	4
5	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	6
7	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	8
9	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	10
11	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	12
13	Space	--	--	0 VA	0 VA					--	--	Space	14
15	Space	--	--			0 VA	0 VA			--	--	Space	16
17	Space	--	--					0 VA	0 VA	--	--	Space	18
Total Load:				0.00 kVA		0.00 kVA		0.00 kVA					

Notes: PROVIDE FEED THRU LUGS.  
NEW PANELBOARD.

TOTAL CONNECTED				ESTIMATED DEMAND			
0 kVA				0 kVA (0 A)			

Panel: 412-1-04B

Location: Laundry Room 011

Mounting: Surface

A.I.C. Rating: 10,000A

Supply From: 412-1-04A

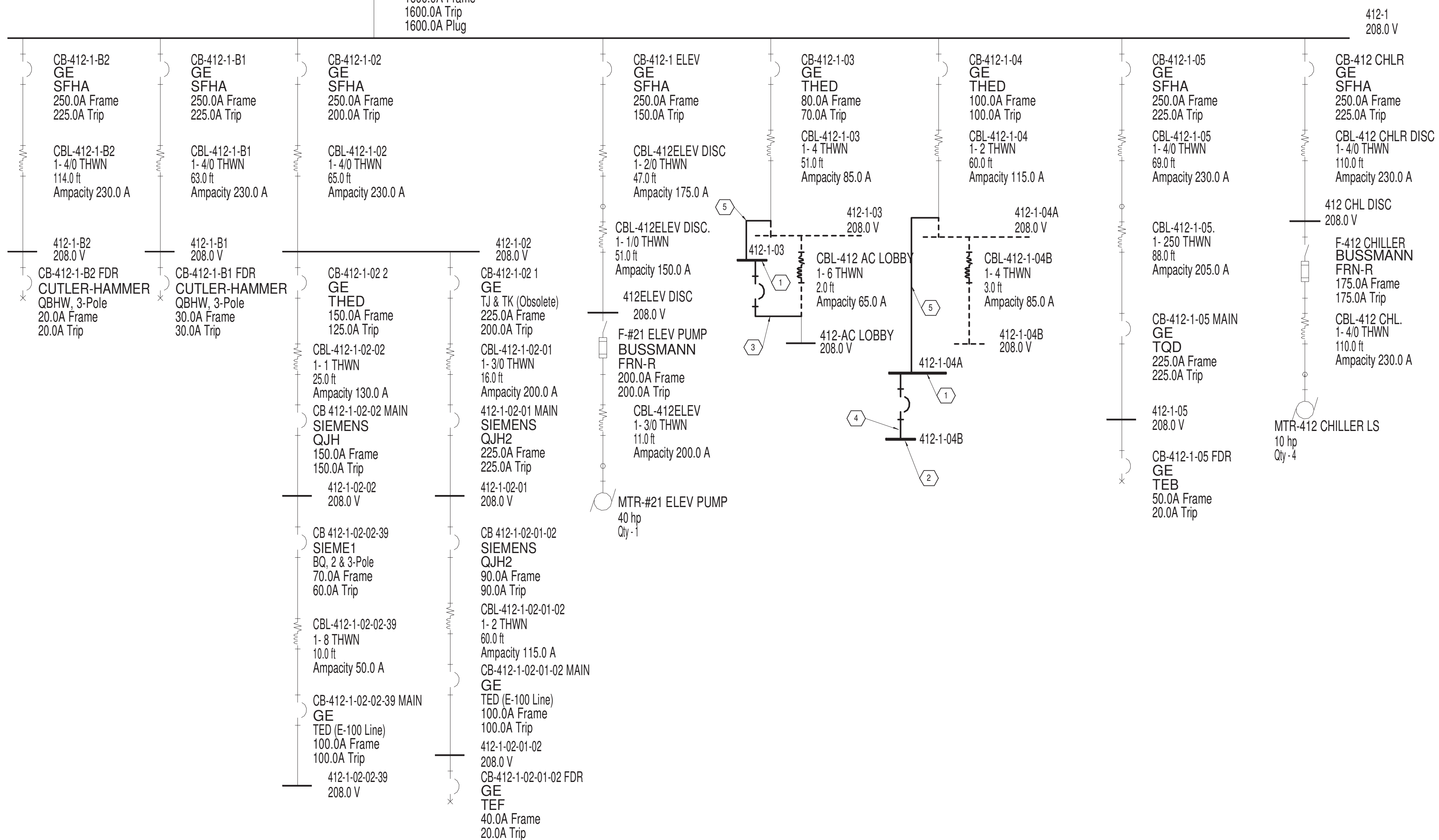
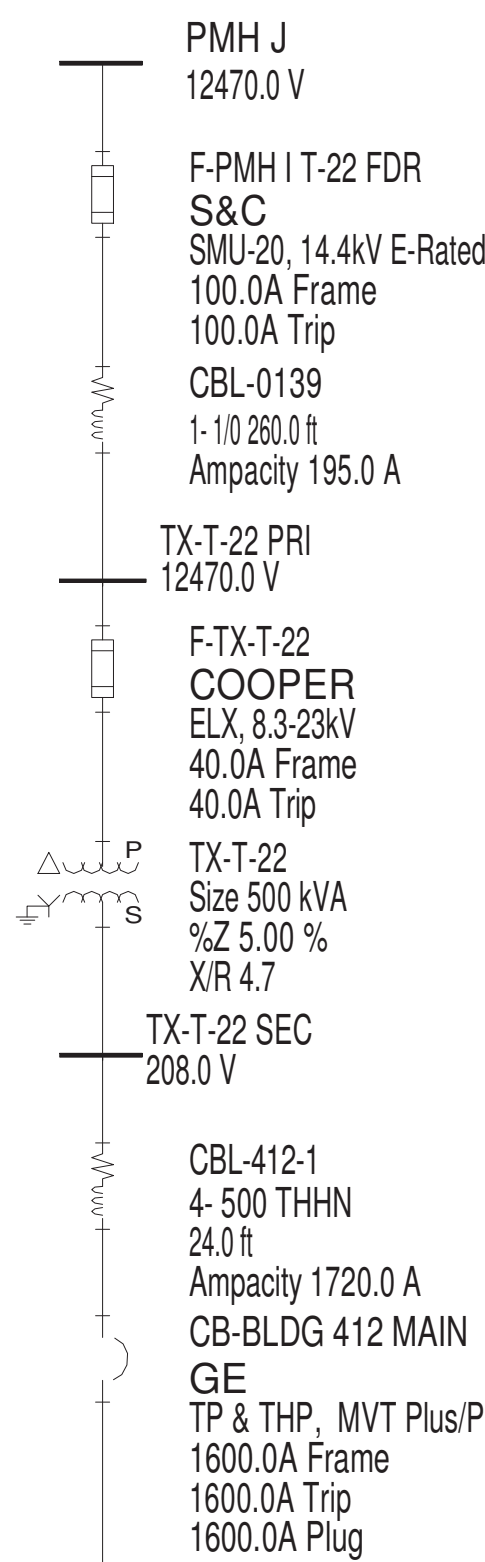
Enclosure: Type 1

Main Type: MLO

Voltage: 120/208 Wye-3PH-4W

Mains Rating: 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EXISTING	20 A	2	0 VA	0 VA					2	20 A	EXISTING	2
3	..	..	..			0 VA	0 VA			..	..	..	4
5	EXISTING	20 A	1					0 VA	0 VA	1	20 A	EXISTING	6
7	EXISTING	20 A	1	0 VA	0 VA					1	20 A	EXISTING	8
9	EXISTING	20 A	1			0 VA	0 VA			1	20 A	EXISTING	10
11	EXISTING	20 A	1					0 VA	0 VA	1	20 A	EXISTING	12
13	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
Total Load:				0.00 kVA		0.00 kVA		0.00 kVA					
Notes: NEW PANELBOARD.													
TOTAL CONNECTED										ESTIMATED DEMAND			
0 kVA										0 kVA (0 A)			



## GENERAL NOTES

- A SCHEDULE ANY SHUTDOWNS WITH THE COR 4 WEEKS PRIOR TO PERFORMING WORK. CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION NARRATIVE TO THE COR AND ENGINEER FOR APPROVAL PRIOR TO SCHEDULING SHUTDOWN. NARRATIVE SHALL INCLUDE DATE AND TIME OF SHUTDOWN, ANTICIPATED DURATION, AND SEQUENCE OF REMOVAL AND INSTALLATION. CONTRACTOR SHALL SCHEDULE A WALK THRU WITH THE COR AND ENGINEER PRIOR TO PERFORMING WORK.

## NOTES

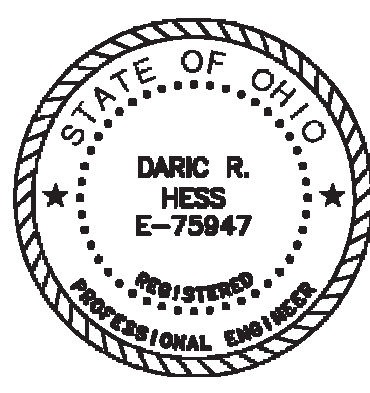
1. REPLACE PANEL WITH NEW 100A, 208Y/120V-3PH-4W, 42 CIRCUIT PANEL. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITRY TO NEW PANELBOARD. NEW CIRCUIT NUMBERS SHALL MATCH EXISTING. RE-TERMINATE ALL EXISTING CONDUITS TO NEW TUB. EXTEND FEEDERS AND BRANCH CIRCUITRY AS REQUIRED TO ACCOMMODATE NEW PANELBOARD.
2. REPLACE PANEL WITH NEW 100A, 208Y/120V-3PH-4W, 30 CIRCUIT PANEL. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITRY TO NEW PANELBOARD. NEW CIRCUIT NUMBERS SHALL MATCH EXISTING.
3. UTILIZE EXISTING CONDUIT AND FEEDER.
4. RUN 4-#4, #8 GRD. IN 1.25".
5. RE-USE EXISTING FEEDER.

## B412 SINGLE-LINE DIAGRAM

Scale: N.T.S.

[illegible]

CONSULTANTS:



ARCHITECT/ENGINEERS:

JOHN POE ARCHITECTS

3131 NEWMARK DRIVE,  
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Drawing Title

### B412 SINGLE-LINE DIAGRAM

Approved: Project Director

Project Title

## CORRECT ARC FLASH DEFICIENCIES

Location	Dayton, Ohio
----------	--------------

Date 07/06/2017

Checked  
MSG

Drawn  
JBS

Project No.	
VA Project No.	552-16-55
JPA Project No.	-
Building Number	

Drawing Number

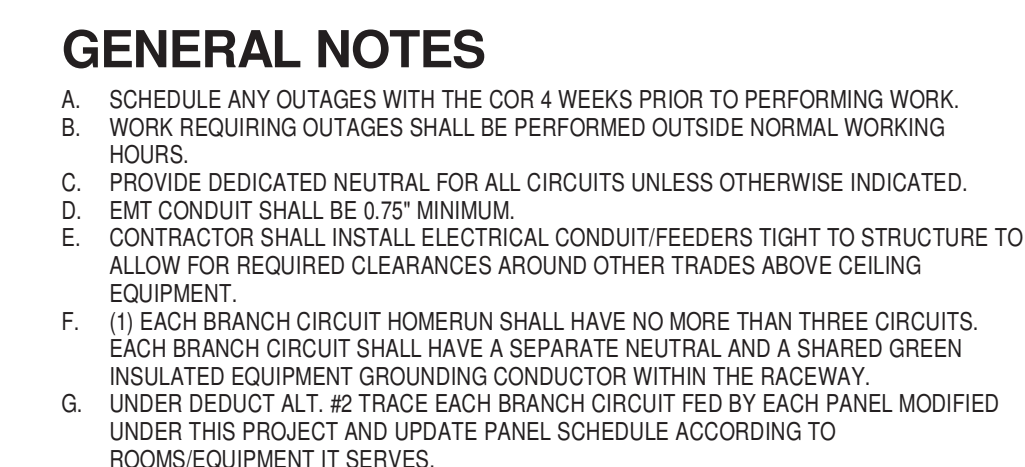
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Dwg. of

Office of  
Construction  
and Facilities  
Management

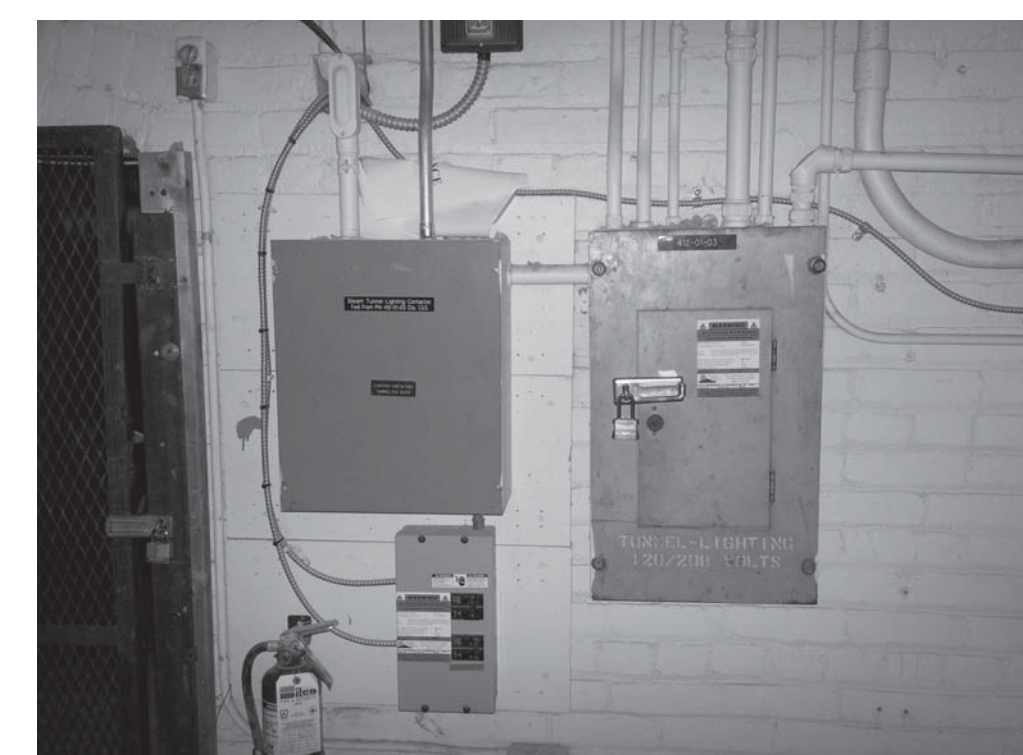






## NOTES

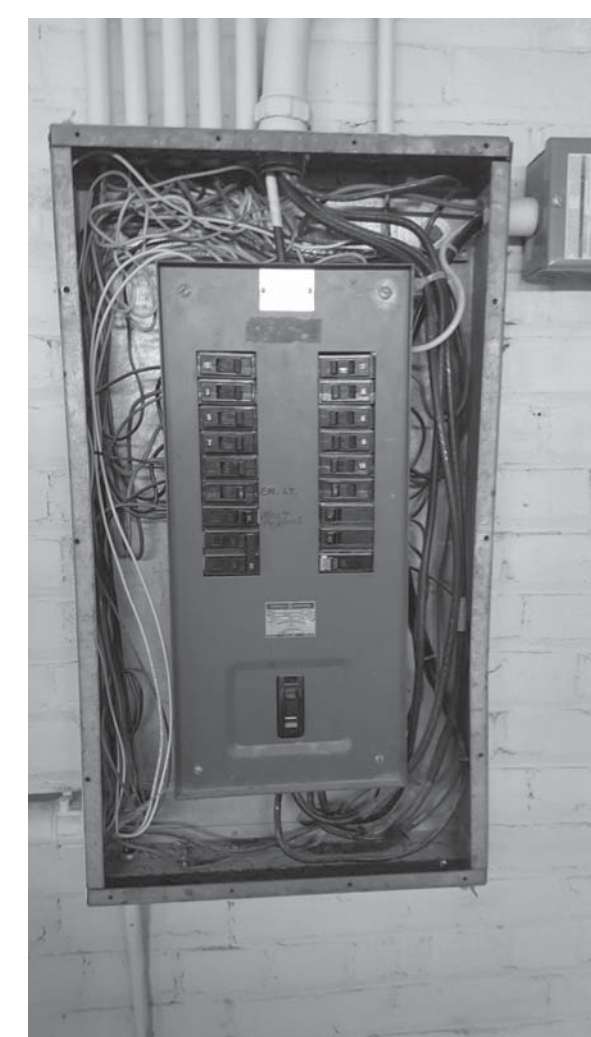
1. REPLACE EXISTING PANEL AND TUB WITH NEW. REFER TO SINGLE-LINE DIAGRAM.
2. REMOVE 60A ENCLOSED CIRCUIT BREAKER.



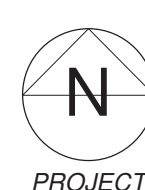
## B SITE PHOTOGRAPH



SITE PHOTOGRAPH



## A SITE PHOTOGRAPH

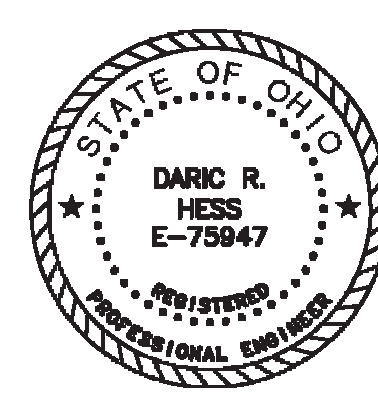


BASEMENT FLOOR PLAN - POWER

Scale: 1/8" = 1'-0"

[illegible]

CONSULTANTS:



ARCHITECT/ENGINEERS-

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Drawing Title

B412 BASEMENT POWER PLAN

Approved: Project Director

Project Title

## CORRECT ARC FLASH DEFICIENCIES

Location	Dayton, Ohio
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Date	07/06/2017
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Checked	MSG
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Drawn  
JBS

Project No.	VA Project No.	552-16-551
	JPA Project No.	-
Building Number		

	Drawing Number
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Construction  
and Facilities  
Management



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