



**Addendum No. 3**

---

Smyrna Readiness Center – Packaged Air Terminal Conditioning (PTAC) Units  
Delaware Army Reserve National Guard (DEARNG)  
Smyrna, Delaware  
DEARNG Contract No.: 15-2016  
OMB/DFM Contract No.: MC7601000088  
Tt Project No.: 200-76984-16009

Addendum No. 3  
to  
Drawings and Project Manual

September 18, 2017

---

To: ALL BIDDERS

This ADDENDUM forms a part of the BIDDING AND CONTRACT DOCUMENTS and modifies the following documents:

Original DRAWINGS dated September 6, 2017

PROJECT MANUAL dated September 6, 2017 and

Acknowledge receipt of the ADDENDUM in the space provided on the FORM OF PROPOSAL

This ADDENDUM consists of three (3) pages and the attachments:

3.1 **CHANGES TO PROJECT MANUAL**

A. Spec Section 00 43 13; DEARNG Bid Bond Form

1. **REPLACE** “Original Bid Bond Form” with “Revised Bid Bond Form” attached to this addendum, indicating the correct year.

3.2 **CHANGES TO DRAWINGS**

A. Sheet M-501

1. Dedicated VRF Outside Air Unit Schedule

- a. **CHANGE** the Electrical Characteristics for DOAS-1 and DOAS-2 from “208-1-60” to read “208-3-60.”

B. Sheet E-401

1. **EDIT** Branch Circuit # “MLP3-23-25” Feeding CVRF-2j-2h (See Room #176) to read as “MLP1-23-25.”

2. **EDIT** Branch Circuit # “MLP3-23-25” Feeding CVRF-1v & CVRF -1w” (See Rooms #186 & #187) to read as “MLP1-23-25.”
3. **EDIT** Labels for Disconnect Switches serving Equipment Namely CU-1a, CU-1b, CU-2, OACU-1 and OACU-2 respectively as follows:
  - a. **CHANGE** CU-1a to read as “30/3” with New Work Note 4.
  - b. **CHANGE** CU-1b to read as “60/3” with New Work Note 4.
  - c. **CHANGE** CU-2 to read as “60/3” with New Work Note 4.
  - d. **CHANGE** OACU-1 to read as “60/3” with New Work Note 4.
  - e. **CHANGE** OACU-2 to read as “60/3” with New Work Note 4.
4. **ADD** the following sentence to the end of Work Note #4 in its entirety.

“Stack Disconnect Switches as required with Front clearance per NEC.”
5. **EDIT** Power Circuit for “DOAS-2” to read as “LDP-7” instead of “MLP2-25, 27” shown on Plan.
6. **EDIT** Label of Disconnect Switch to read as “200/3/240.”
7. **EDIT** Label of Disconnect Switch for “DOAS-1” to read as “200/3/240.”

C. Sheet E-402

1. **EDIT** Branch Circuit # “MLP3-11-13” to read as “MLP2-23-25” serving CVRF-1m,-1k, CVRF-2m,-2k” (see Rooms #143, 144 & 146.)
2. **ADD** the following sentence to the end of Work Note #4 in its entirety.

“Stack Disconnect Switches as required with Front clearance per NEC.”

D. Sheet E-602

1. **ADD** the following New Panelboard Schedules in their entirety, attached to this addendum:
  - a. Schedule of Existing Panel “MHP3.”
  - b. Revised Schedule of Existing Panel “MHP3.”
  - c. Schedule of Existing Panel “LDP.”
  - d. Revised Schedule of Existing Panel “LDP.”
2. **REPLACE** the following Panelboard Schedule shown on Drawings in their entirety with the ones attached to this addendum:
  - a. Revised Schedule of Existing Panel “MLP1.”
  - b. Revised Schedule of Existing Panel “MLP3.”

3.3 **CLARIFICATIONS/REQUEST FOR INFORMATION (RFI'S)**

A. Joseph T. Richardson, Inc. September 18, 2017 phone call.

**Question #1:** The pipe sizes on Sheet M-601 are not completely legible.

**Response:** The VRF System Pipe Trees were all enlargements of pdf's from the factory. Attached are the actual pdf's from the factory which are more legible.

**END OF ADDENDUM 03**

**Attachments:**

00 43 13 DEARNG Bid Bond Form

LATS VRF System Pipe Trees

Schedule of Existing Panel "MHP3"

Revised Schedule of Existing Panel "MHP3"

Revised Schedule of Existing Panel "MLP1"

Revised Schedule of Existing Panel "MLP3"

STATE OF DELAWARE  
DELAWARE ARMY NATIONAL GUARD

BID BOND

TO ACCOMPANY PROPOSAL  
(Not necessary if security is used)

KNOW ALL MEN BY THESE PRESENTS That: \_\_\_\_\_  
\_\_\_\_\_ of \_\_\_\_\_ in the County of \_\_\_\_\_  
\_\_\_\_\_ and State of \_\_\_\_\_ as **Principal**, and \_\_\_\_\_  
\_\_\_\_\_ of \_\_\_\_\_ in the County of \_\_\_\_\_  
and State of \_\_\_\_\_ as **Surety**, legally authorized to do business in the State of Delaware  
("State"), are held and firmly unto the **State** in the sum of \_\_\_\_\_  
\_\_\_\_\_ Dollars (\$ \_\_\_\_\_), or \_\_\_\_\_ percent not to exceed \_\_\_\_\_  
\_\_\_\_\_ Dollars (\$ \_\_\_\_\_)  
of amount of bid on DEARNG SMYRNA RC – PTAC REPLACEMENT - CONTRACT NO.: 15-2016 to be  
paid to the **State** for the use and benefit of Delaware National Guard for which payment well and truly to be  
made, we do bind ourselves, our and each of our heirs, executors, administrators, and successors, jointly and  
severally for and in the whole firmly by these presents.

NOW THE CONDITION OF THIS OBLIGATION IS SUCH That if the above bonded **Principal**  
who has submitted to the Delaware National Guard a certain proposal to enter into this contract for the  
furnishing of certain material and/or services within the **State**, shall be awarded this Contract, and if said  
**Principal** shall well and truly enter into and execute this Contract as may be required by the terms of this  
Contract and approved by the Delaware National Guard this Contract to be entered into within twenty days  
after the date of official notice of the award thereof in accordance with the terms of said proposal, then this  
obligation shall be void or else to be and remain in full force and virtue.

Sealed with \_\_\_\_\_ seal and dated this \_\_\_\_\_ day of \_\_\_\_\_ in the year of our Lord two  
thousand and seventeen (2017).

SEALED, AND DELIVERED IN THE  
Presence of

\_\_\_\_\_  
Name of Bidder (Organization)

Corporate  
Seal

By:

\_\_\_\_\_  
Authorized Signature

Attest \_\_\_\_\_

\_\_\_\_\_  
Title

\_\_\_\_\_  
Name of Surety

Witness: \_\_\_\_\_

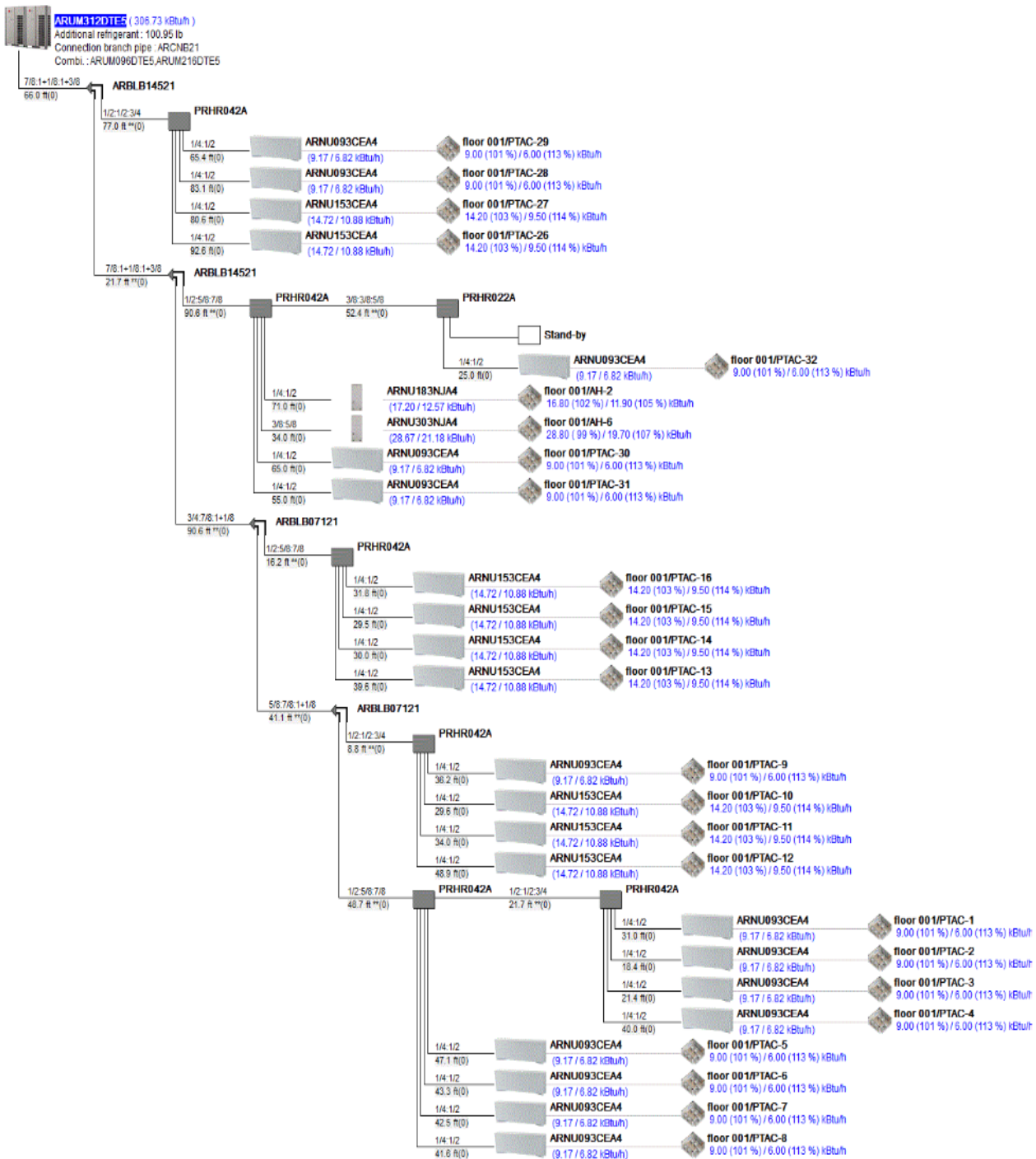
By:

\_\_\_\_\_  
Title

PAGE  
INTENTIONALLY  
LEFT  
BLANK

Project Name :Delaware Army National Guard 7-21-17

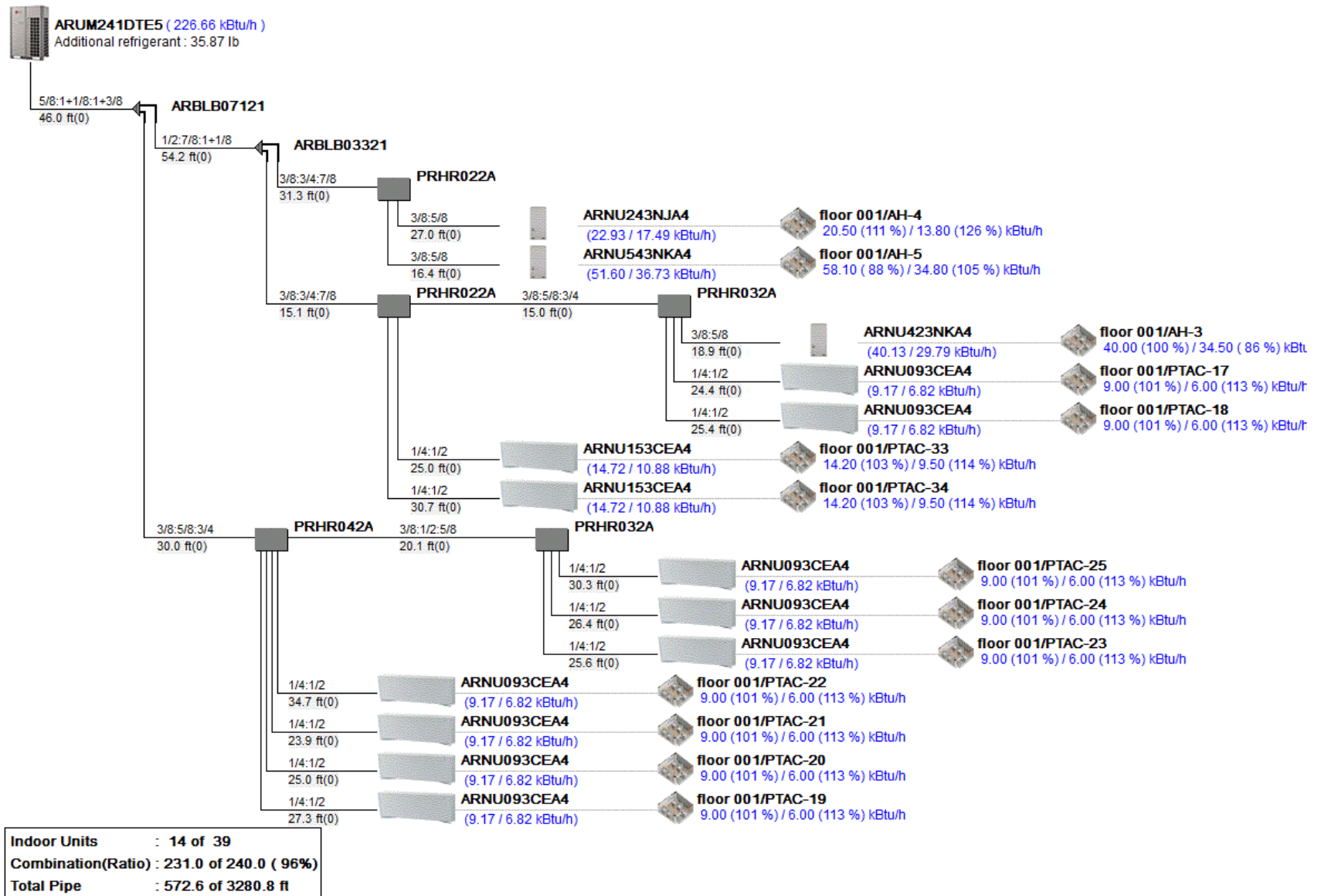
System No :1/2



Indoor Units : 25 of 52  
Combination(Ratio) : 309.0 of 312.0 ( 99% )  
Total Pipe : 2140.5 of 3280.8 ft

Project Name :Delaware Army National Guard 7-21-17

System No :2/2



1		2		3		4		5		6		7								
A																				
B																				
C																				
D																				
E																				
SCHEDULE OF EX. PANEL		MHP3	225A, 277/480V, 3PHASE, 4WIRES (FED FROM 225A,3P,600V SIEMENS ENCLOSED CB, LOCATED IN MECH.RM.#171. POWER TO THIS CB IS TAPPED FROM BUSES OF SWBD)								SURFACE		MOUNTED;				LOCATION: TRAINING AID STORE#109			
		MAIN:				MLO			SQUARE D, TYPE HCP								KAIC:		14	
CKT#	DESCRIPTION	BREAKER			WIRING			PHASES					CKT#	DESCRIPTION	BREAKER			WIRING		
		FRAME	P	TRIP	C-QTY#AWG,G#AWG			KVA	A	B	C				KVA	FRAME	P	TRIP	C-QTY#AWG,G#AWG	
1	RF-1	100A	3P	15A	EXISTING TO REMAIN		1.5	3.0			1.5	2	RF-2	100A	3P	15A	EXISTING TO REMAIN			
3							1.5		3.0		1.5	4								
5								1.5			3.0	1.5		6						
7	AH-2		3P	15A	EXISTING TO REMAIN		1.2	2.7			1.5	8	AH-6		3P	15A	EXISTING TO REMAIN			
9							1.2		2.7		1.5	10								
11							1.2			2.7	1.5	12								
13	AH-8		3P	15A	EXISTING TO REMAIN		1.3	2.8			1.5	14	AH-9		3P	15A	EXISTING TO REMAIN			
15							1.3		2.8		1.5	16								
17							1.3			2.8	1.5	18								
19	SPARE		3P	15A	XX		0.0	3.4			3.4	20	CC-3		3P	35A	EXISTING TO REMAIN			
21							0.0		3.4		3.4	22								
23							0.0		3.4	3.4	24									
25	CC-2		3P	50A	EXISTING TO REMAIN		1.5	1.5			0.0	26	SPARE. SEE DEMO. WORK NOTE 2.		3P	15A	XX			
27							1.5		1.5		0.0	28								
29							1.5			1.5	0.0	30								
31	SPARE. SEE DEMO. WORK NOTE 2.		1P	20A	XX		0.0	0.0			0.0	32	SPARE. SEE DEMO. WORK NOTE 2.		1P	20A	XX			
33	SPARE. SEE DEMO. WORK NOTE 2.		1P	20A	XX		0.0		0.0		0.0	34	SPARE. SEE DEMO. WORK NOTE 2.		1P	20A	XX			
35	SPARE. SEE DEMO. WORK NOTE 2.		1P	20A	XX		0.0			0.0	0.0	36	SPARE. SEE DEMO. WORK NOTE 2.		1P	20A	XX			
37	SPARE		1P	20A	XX		0.0	0.0			0.0	38	SPARE		1P	20A	XX			
39	SPARE		1P	20A	XX		0.0		0.0		0.0	40	SPARE		1P	20A	XX			
41	SPARE		1P	20A	XX		0.0			0.0	0.0	42	SPARE		1P	20A	XX			
SUB-TOTAL=							16.5			PLUS	23.8	TOTAL=		40.3						
TOTAL WITH SPARE OF		25%	50.4		KVA		CURRENT AT 277/480V, 3PHASE, 4 WIRES=					60.6		A						

SCHEDULE OF EX. PANEL			MHP3	225A, 277/480V, 3PHASE, 4WIRES (FED FROM 225A,3P,600V SIEMENS ENCLOSED CB, LOCATED IN MECH.RM.#171. POWER TO THIS CB IS TAPPED FROM BUSES OF SWBD)								SURFACE		MOUNTED;			LOCATION: TRAINING AID STORE#109	
		MAIN:			MLO	SQUARE D, TYPE HCP										KAIC:	14	
CKT#	DESCRIPTION	BREAKER			WIRING		PHASES				CKT#	DESCRIPTION	BREAKER			WIRING		
		FRAME	P	TRIP	C-QTY#AWG,G#AWG	KVA	A	B	C	KVA			FRAME	P	TRIP	C-QTY#AWG,G#AWG		
1	RF-1	100A	3P	15A	EXISTING TO REMAIN	1.5	3.0			1.5	2	RF-2	100A	3P	15A	EXISTING TO REMAIN		
3						1.5		3.0		1.5	4							
5							1.5			3.0	1.5		6					
7	AH-2		3P	15A	EXISTING TO REMAIN	1.2	2.7			1.5	8	AH-6		3P	15A	EXISTING TO REMAIN		
9						1.2		2.7		1.5	10							
11							1.2			2.7	1.5		12					
13	AH-8		3P	15A	EXISTING TO REMAIN	1.3	2.8			1.5	14	AH-9		3P	15A	EXISTING TO REMAIN		
15						1.3		2.8		1.5	16							
17							1.3			2.8	1.5		18					
19	SPARE		3P	15A	XX	0.0	3.4			3.4	20	CC-3		3P	35A	EXISTING TO REMAIN		
21						0.0		3.4		3.4	22							
23							0.0			3.4	3.4		24					
25	CC-2		3P	50A	EXISTING TO REMAIN	1.5	1.5			0.0	26	SPARE. SEE DEMO. WORK NOTE 2.		3P	15A	XX		
27						1.5		1.5		0.0	28							
29							1.5			1.5	0.0		30					
31	SPARE. SEE DEMO. WORK NOTE 2.		1P	20A	XX	0.0	0.0			0.0	32	SPARE. SEE DEMO. WORK NOTE 2.		1P	20A	XX		
33	SPARE. SEE DEMO. WORK NOTE 2.		1P	20A	XX	0.0		0.0		0.0	34	SPARE. SEE DEMO. WORK NOTE 2.		1P	20A	XX		
35	SPARE. SEE DEMO. WORK NOTE 2.		1P	20A	XX	0.0			0.0	0.0	36	SPARE. SEE DEMO. WORK NOTE 2.		1P	20A	XX		
37	SPARE		1P	20A	XX	0.0	0.0			0.0	38	SPARE		1P	20A	XX		
39	SPARE		1P	20A	XX	0.0		0.0		0.0	40	SPARE		1P	20A	XX		
41	SPARE		1P	20A	XX	0.0			0.0	0.0	42	SPARE		1P	20A	XX		
SUB-TOTAL=						16.5			PLUS	23.8		TOTAL=		40.3				
TOTAL WITH SPARE OF		25%	50.4		KVA	CURRENT AT 277/480V, 3PHASE, 4 WIRES=						60.6		A				



DEARNG SMYRNA HVAC PTAC REPLACEMENT  
ELECTRICAL SCHEDULES

Proj # 200-26912-16009  
Date: 9/18/17  
Drawn By: KG/RLH  
Drawing No.:  
E/SK-0.01



REVISED SCHEDULE OF EX. PANEL		MHP3	225A, 277/480V, 3PHASE, 4WIRES (FED FROM 225A,3P,600V SIEMENS ENCLOSED CB, LOCATED IN MECH.RM.#171. POWER TO THIS CB IS TAPPED FROM BUSES OF SWBD)								SURFACE		MOUNTED;		LOCATION: TRAINING AID STORE#109	
		MAIN:	MLO			SQUARE D, TYPE HCP							KAIC:		14	
CKT#	DESCRIPTION	BREAKER			WIRING	KVA	PHASES			KVA	CKT#	DESCRIPTION	BREAKER			WIRING
		FRAME	P	TRIP	C-QTY#AWG,G#AWG		A	B	C				FRAME	P	TRIP	C-QTY#AWG,G#AWG
1	RF-1	100A	3P	15A	EXISTING TO REMAIN	1.5	3.0			1.5	2	RF-2	100A	3P	15A	EXISTING TO REMAIN
3						1.5		3.0		1.5	4					
5						1.5			3.0	1.5	6					
7	AH-2		3P	15A	EXISTING TO REMAIN	1.2	2.7			1.5	8	AH-6		3P	15A	EXISTING TO REMAIN
9						1.2		2.7		1.5	10					
11						1.2			2.7	1.5	12					
13	AH-8		3P	15A	EXISTING TO REMAIN	1.3	2.8			1.5	14	AH-9		3P	15A	EXISTING TO REMAIN
15						1.3		2.8		1.5	16					
17						1.3			2.8	1.5	18					
19	SPARE		3P	15A	XX	0.0	3.4			3.4	20	CC-3		3P	35A	EXISTING TO REMAIN
21						0.0		3.4		3.4	22					
23						0.0			3.4	3.4	24					
25	CC-2		3P	50A	XX	1.5	12.9			11.4	26	CU-2 (480V,3PH.,41.1MCA,50A-MOCP). SEE NEW WOPK NOTE 3		3P	50A	PROVIDE 1"C-(3#6, 1#10G)
27						1.5		12.9		11.4	28					
29						1.5			12.9	11.4	30					
31	CU-1a (480V,3PH.,16.4 MCA,25A-MOCP). SEE NEW WORK NOTEs 3 & 4.		3P	25A	PROVIDE 3/4"C-(3#8,1#10G).	4.5	15.2			10.6	32	CU-1b (480V,3PH.,38.3 MCA,50A-MOCP). SEE NEW WORK NOTEs 3 & 4.		3P	50A	PROVIDE 1"C-(3#6,1#8G).
33						4.5		15.2		10.6	34					
35						4.5			15.2	10.6	36					
37	SPARE		1P	20A	XX	0.0	0.0			0.0	38	SPARE		1P	20A	XX
39	SPARE		1P	20A	XX	0.0		0.0		0.0	40	SPARE		1P	20A	XX
41	SPARE		1P	20A	XX	0.0			0.0	0.0	42	SPARE		1P	20A	XX
SUB-TOTAL=						30.2			PLUS	89.8		TOTAL=		120.0		
TOTAL WITH SPARE OF		25%	150.0			KVA	CURRENT AT 277/480V, 3PHASE, 4 WIRES=					180.4		A		



DEARNG SMYRNA HVAC PTAC REPLACEMENT

ELECTRICAL SCHEDULES

Proj # 200-26912-16009

Date: 9/18/17

Drawn By: KG/RLH

Drawing No.:

E/SK-0.02

Description:

Date:

Rev.:

A

B

C

D

E

EXISTING SCHEDULE OF EX. SWITCHBOARD					LDP	1200A, 120/208V, 3HASE, 4WIRES					SURFACE		MOUNTED;			LOCATION: ELEC. RM. #174		
		MAIN:	1000A	MCB		SIEMENS (3B3 REV A, S.O.17-51163-H00010)									KAIC:	30		
CKT#	DESCRIPTION	BREAKER			WIRING		PHASES					CKT#	DESCRIPTION	BREAKER			WIRING	
		FRAME	P	TRIP	C-QTY#AWG,G#AWG		KVA	A	B	C				KVA	FRAME	P	TRIP	C-QTY#AWG,G#AWG
	SPACE	100A	3P	XX	XX	0.0	0.0			0.0			SPACE	100A	3P	XX	XX	
1						0.0		0.0		0.0	2							
						0.0			0.0	0.0								
	TVSS		3P	30A	EXISTING TO REMAIN	0.7	9.1			8.4		PANEL MP IN MOTORPOOL		3P	100A	EXISTING TO REMAIN		
3						0.7		9.1		8.4	4							
						0.7			9.1	8.4								
	SPEC. RECPT.		3P	50A	EXISTING TO REMAIN	3.6	7.2			3.6		SPEC. RECPT.		3P	50A	EXISTING TO REMAIN		
5						3.6		7.2		3.6	6							
						3.6			7.2	3.6								
	SPARE		3P	100A	XX	0.0	0.0			0.0		SPARE		3P	100A	XX		
7						0.0		0.0		0.0	8							
						0.0			0.0	0.0								
	SPARE		3P	30A	XX	0.0	8.4			8.4		LP-3A		3P	100A	EXISTING TO REMAIN		
9						0.0		8.4		8.4	10							
						0.0			8.4	8.4								
	LP-1	250A	3P	100A	EXISTING TO REMAIN	9.6	18.1			8.4		LP-4		3P	100A	EXISTING TO REMAIN		
11						9.6		18.1		8.4	12							
						9.6			18.1	8.4								
	MLP-1		3P	225A	EXISTING TO REMAIN	11.5	29.6			18.1		UNKNOWN	250A	3P	225A	EXISTING TO REMAIN		
13						11.5		29.6		18.1	14							
						11.5			29.6	18.1								
	MLP-2		3P	225A	EXISTING TO REMAIN	22.9	39.3			16.5		MLP-3		3P	225A	EXISTING TO REMAIN		
						22.9		39.3		16.5	16							
						22.9			39.3	16.5								
							111.7			111.7		MAIN	1200A	3P	1000A	EXISTING TO REMAIN		
15								111.7		111.7								
									111.7	111.7								
SUB-TOTAL=						145.0			PLUS	190.2		TOTAL=		335.2				
TOTAL WITH SPARE OF			335.2		KVA	CURRENT AT 120/208V, 3PHASE, 4 WIRES=						928.6			A			



TETRA TECH

DEARNG SMYRNA HVAC PTAC REPLACEMENT  
ELECTRICAL SCHEDULES

Proj # 200-26912-16009

Date: 9/18/17

Drawn By: KG/RLH

Drawing No.:

E/SK-0.03

A														
B														
C														
D														
E														



TETRA TECH

DEARNG SMYRNA HVAC PTAC REPLACEMENT  
ELECTRICAL SCHEDULES

Proj # 200-26912-16009

Date: 9/18/17

Drawn By: KG/RLH

Drawing No.:

E/SK-0.04