

Progressive Design Collaborative, Ltd

3101 Poplarwood Court, Suite 320 Raleigh, North Carolina 27604 919-790-9989

ADDENDUM 01 - ELECTRICAL

DATE: June 27, 2023

PROJECT: ENCSD Alford Hall HVAC Upgrades

PDC Project No. 22034 SCO # 22-24313-01

This Addendum, applicable to the work designed below, shall be understood to be and is a change to the bid documents and shall be part of and included in the contract for the above referenced project. All General, Supplementary and Special Conditions, etc., as originally specified or as modified below shall apply to these items.

Changes to Drawings:

E1.00 – Added keynote to electrical 107 to remove lighting and ceiling mounted devices.

E2.00 – Added keynote 10 to list and mechanical room for new DDC Circuit, and Added keynote 11 to reinstall lighting and ceiling mounted devices to new gyp board ceiling.

END OF ADDENDUM 02 - ELECTRICAL

Attachments: See list above









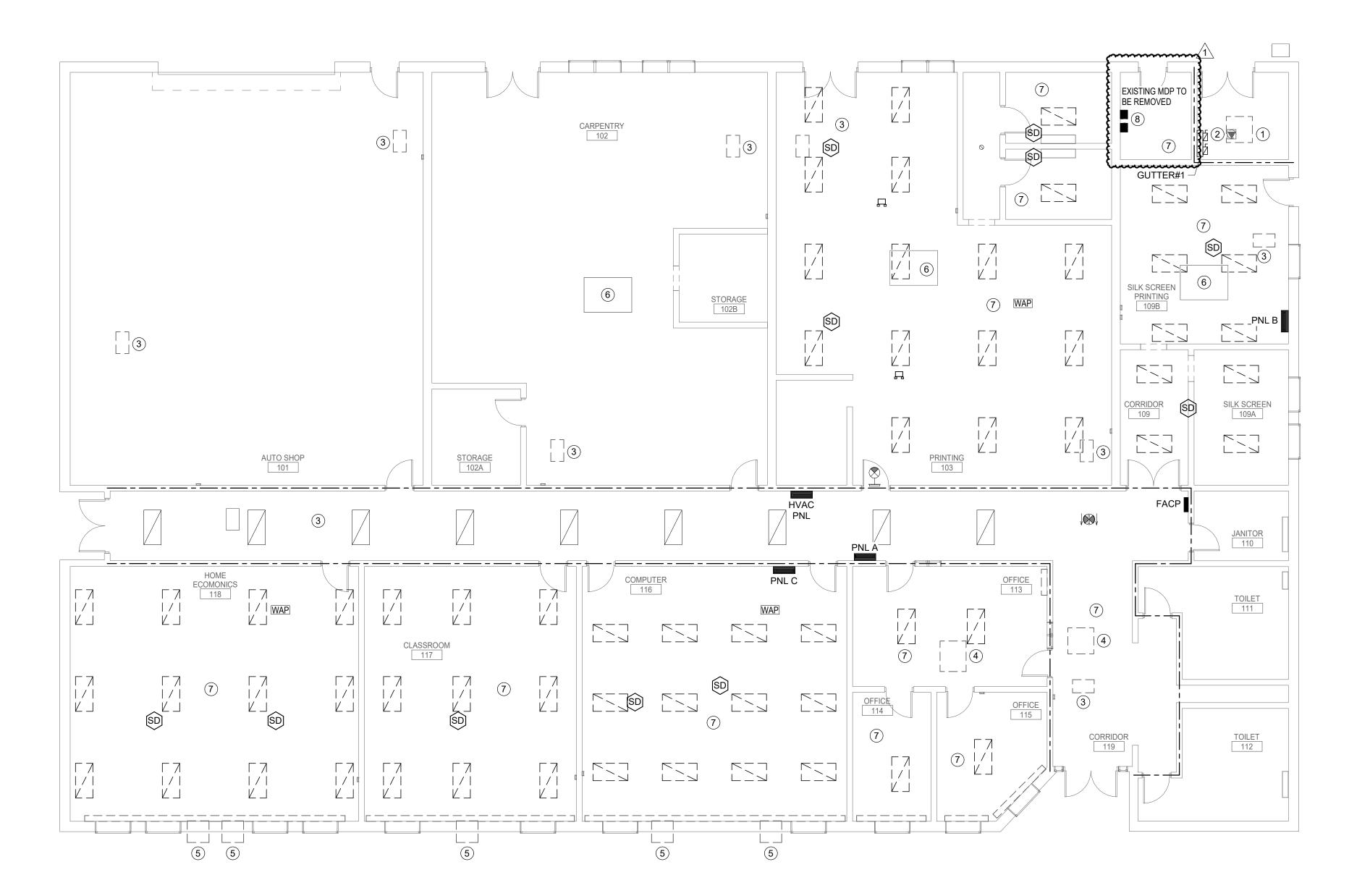


GENERAL NOTES:

- A. EXISTING PANELS SHOWN FOR REFERENCE, UNLESS OTHERWISE NOTED.
- REMOVE ALL CONDUIT, WIRING, AND ACCESSORIES ASSOCIATED WITH MECHANICAL EQUIPMENT BACK TO SOURCE.

KEY NOTES:

- 1. REMOVE EXISTING WIRING AND DISCONNECT FOR BOILER BACK TO EXISTING GUTTER #1. PRESERVE CONDUIT TAP HOLE FOR NEW WORK.
- 2. REMOVE EXISTING WIRING AND DISCONNECT FOR HOT WATER PUMP BACK TO EXISTING GUTTER #1 IN BOILER ROOM. RETAIN CONDUIT TAP HOLE FOR
- DISCONNECT FEEDER FOR EXISTING HOT WATER UNIT HEATER AND LEAVE IN PLACE FOR NEW WORK. DEMOLISH EXISTING HOT WATER UNIT HEATER AND TURN OVER TO OWNER.
- 4. REMOVE EXISTING DISCONNECT, WIRING, AND CONDUIT BACK TO PANEL FOR EXISTING SPLIT SYSTEM HVAC UNITS.
- 5. UNPLUG EXISTING WALL AC UNITS AND DEMOLISH EXISTING RECEPTACLE, WIRING AND CONDUIT BACK TO EXISTING PANEL.
- 6. EXISTING ROOF TOP UNIT TO REMAIN IN PLACE.
- 7. REMOVE EXISTING CEILING GRID, LIGHTS, AND CEILING MOUNTED DEVICES AND STORE FOR ADDITION OF NEW DUCTWORK. KEEP ALL WIRING IN PLACE FOR RECONNECTION. PRESERVE EXISTING STRUCTURAL SUPPORTS, FIRE RATED BOXES AND OTHER ITEMS NOT DISTURBED BY DEMOLITION. PROVIDE SUPPORT FOR ANY CABLING NOT REMOVED VIA DEMOLITION OF EXISTING DEVICES. REMOVAL OF CEILING GRID AND REINSTALLATION IS PER BASE BID. ALTERNATE BID#1 IS FOR REMOVAL OF GRID AND REPLACEMENT WITH NEW GRID AND GRID TILE. REFERENCE SHEET G1.01
- 8. DISCONNECT ALL EXISTING FEEDERS, SERVICE ENTRANCE FEEDER, GROUDING AND BONDING CONDUCTORS FROM EXISTING PANEL 'MDP' REMOVE EXISTING MDP AND TURN OVER TO OWNER FOR DISPOSAL. RETAIN ALL EXISTING WIRING IN SPACE AND SECURE/PROTECT FOR INSTALLATION OF NEW MDP UNDER NEW CONSTRUCTION.





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License# C-0183



TBUTKOVICH@PDCENGINEERS.COM

DRAWN BY: RB

RB CHECKED BY: JPT

PDC 22034 06/09/2023

REVISIONS

NUMBER DATE DESCRIPTION

1 06/27/23 Addendum 01

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STRUCTION # 22-24313-01*A*

AC

Iford Hall HVA(

DEMOLITION PLAN

E1.00

GENERAL NOTES:

- A. EXISTING PANELS SHOWN FOR REFERENCE, UNLESS OTHERWISE NOTED.
- B. LIGHTING REPLACEMENT AND FCAP DEFICIENCY LIFE SAFETY/EGRESS ISSUES WILL BE ADDRESSED DURING CONCURRENT CAMPUS WIDE LIGHTING REPLACEMENT PROJECT SCO ID# 22-25348-01A.

KEY NOTES:

- . EXISTING ROOF TOP UNIT TO REMAIN IN PLACE.
- 2. PROVIDE NEW ACT TYPE CEILING AND GRID PER ALTERNATE BID #1, REINSTALL AND RECONNECT ALL LIGHTING AND CEILING MOUNTED DEVICES REMOVED IN DEMOLITION PHASE TO EXISTING WIRING LEFT IN PLACE. ENSURE ALL EXISTING ITEMS HAVE BEEN STORED AND ANY EXISTING CEILING CABLES, STRUCTURE SUPPORTS, AND FIRE RATED BOXES HAVE BEEN REINSTALLED WITH DEVICES AS REQUIRED.
- 3. PROVIDE 120V, MOTOR RATED TOGGLE SWITCH AND RECONNECT TO EXISTING WIRING LEFT IN PLACE FROM REMOVAL OF EXISTING UNIT HEATERS.
- PROVIDE 30A, 240V, 3P FUSED DISCONNECT FOR NEW HOT WATER PUMP. PROVIDE 3# 12 & 1#12G IN 3/4"C FEEDER FROM NEW HOT WATER PUMP TO NEW DISCONNECT AND EXISTING TAPS IN EXISTING GUTTER #1 UTILIZING EXISTING CONDUIT SPACE LEFT OVER FROM DEMOLITION . FUSE DISCONNECT PER MANUFACTURER SPECIFICATIONS.
- 5. PROVIDE 60A, 240V, 3P FUSED DISCONNECT FOR NEW ROOF TOP UNIT. EXTEND NEW CONDUIT AND FEEDER FROM NEW 40A, 3P BREAKER IN EXISTING PANEL AND PROVIDE NEW CONDUCTORS PER PANEL SCHEDULE. FUSE DISCONNECT PER MANUFACTURER SPECIFICATIONS. VERIFY CIRCUITS IN PANELS PRIOR TO ROUGH-IN AND COORDINATE ANY REQUIRED CHANGES WITH ENGINEER. PER RECORD DRAWINGS FAULT CURRENT RATING OF EXISTING EQUIPMENT SHALL NOT EXCEED 10,000kAIC. PROVIDE BREAKER AND DISCONNECT WITH MAX 10,000kAIC RATING AND LABEL BREAKER AND DISCONNECT PER NEC ART.440.10. LABEL PANEL HVAC WITH AVAILABLE FAULT CURRENT AT 9841A
- 6. WIRE FACTORY PROVIDED RECEPTACLE TO EXISTING LOCAL EXTERIOR RECEPTACLE
- 7. PROVIDE 120V, MOTOR RATED TOGGLE SWITCH AT BOILER. PROVIDE 2#12 & 1#12G IN 3/4"C FEEDER FROM NEW BOILER TO EXISTING TAPS IN EXISTING GUTTER #1 UTILIZING EXISTING CONDUIT SPACE LEFT OVER FROM DEMOLITION.
- 8. PROVIDE NEW CEILING MOUNTED CARBON MONOXIDE DETECTOR IN BOILER RM. PROVIDE UPGRADE MODULE AND WIRING PER FIRE ALARM RISER AND CONNECT TO EXISTING BUILDING FIRE ALARM CONTROL PANEL PER 2018 NC EXISTING BUILDING CODE SECTION 403.11.
- 9. PROVIDE NEW 800A MCB, 208/120V, 3PHASE, 22,000kAIC RATED, S.E. RATED MAIN DISTRIBUTION PANEL AT LOCATION OF EXISTING MDP REMOVED UNDER DEMOLITION. RECONNECT EXISTING SERVICE ENTRANCE FEEDERS, PANEL FEEDERS, GROUND AND BONDING JUMPERS TO NEW PANEL. PROVIDE NEW BREAKERS WITH PANEL MATCHING EXISTING LAYOUT OF BREAKERS IN PREVIOUS MDP PANEL THAT WAS DEMOLISHED. FAULT CURRENT CALCULATIONS PERFORMED ON 5/11/23 BY THIS OFFICE STATE THAT 22,000kAIC RATING IS SUFFICIENT. PER NEC ART. 440.10 LABEL NEW MDP WITH LABEL SHOWING AVAILABLE FAULT CURRENT AT MDP AT 15.331.5A.
- 10. PROVIDE 120V POWER CIRCUIT FOR DDC PANEL. PROVIDE ETHERNET DROP FOR SAME.
- 11. REINSTALL AND RECONNECT ALL LIGHTING AND CEILING MOUNTED DEVICES REMOVED IN DEMOLITION PHASE TO EXISTING WIRING LEFT IN PLACE. ENSURE ALL EXISTING ITEMS HAVE BEEN STORED AND ANY EXISTING CEILING CABLES, STRUCTURE SUPPORTS, AND FIRE RATED BOXES HAVE BEEN REINSTALLED WITH DEVICES AS REQUIRED.

 PANELBOARD: MDP

 LOCATION:
 ELECTRICAL ROOM
 MAINS:
 800 A MCB
 PANEL RATING:
 800 A

 MOUNTING:
 Surface
 VOLTS:
 120/208 Wye
 MCB RATING:
 800 A MCB

 ENCL NEMA:
 Type 1
 PHASE:
 3
 FED FROM:
 UTILITY

 MIN AIC:
 22,000
 WIRES:
 4

NOTES: 1. NEW PANEL TO REPLACE EXISTING PANEL NOT MEETING ARC FAULT RATING REQUIRMENTS
2. LABEL PANEL PER NEC ART. 440.10 - AVAIALBE FAULT CURRENT AT MDP IS 15.331.5A

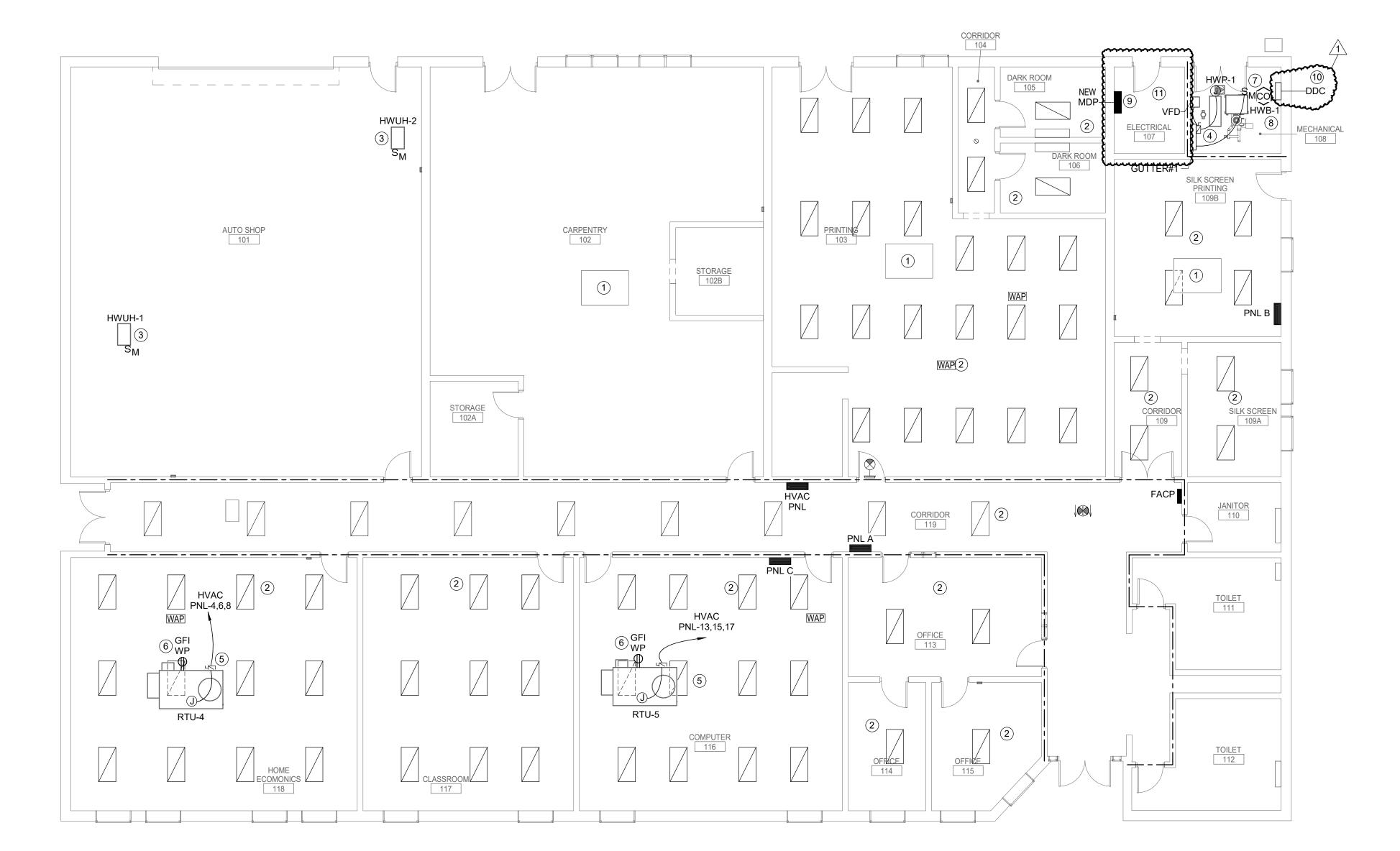
СКТ	LOAD TYPE	LOAD DESCRIPTION	WIRE SIZE	CONDUIT	POLES	TRIP AMPS	A	١	E	3	C	;	TRIP AMPS	POLES	CONDUIT	WIRE SIZE	LOAD DESCRIPTION	LOAD TYPE								
1							15	10											2							
3	E	EXISTING PANEL B NEW BREAKER		EXISTING FEEDER	3	150 A			15	10			150 A	3	EXISTING FEEDER		EXISTING GUTTER #2 NEW BREAKER	E	4							
5		NEW BIRE WER		LEBER							15	10			. LLBER	1	THE VI BILLANEIX		6							
7		E EXISTING PANEL HVAC NEW BREAKER	EXISTING FEEDER	EXISTING FEEDER	3	225 A	16.64	15					200 A	3	EXISTING FEEDER		EXISTING PANEL A NEW BREKAER		8							
9	E								16.64	15								E	10							
11											15.64	15							12							
13		5,407,110,004,05					5,407,110,004,05		14																	
15	E	EXISTING SPARE NEW BREAKER		-	3	200 A			0	0			125 A	3	-		EXISTING SPARE NEW BREAKER	E	16							
17		NEW BIKE WER									0	0							18							
19								1					30 A	2	EXISTING		EM BACKUP FA CONTROLLER		20							
21		SPACE			3					1			30 A		FEEDER		NEW BREAKER		22							
23														1			SPACE		24							
25																										26
27	SPACE			3									3			SPACE		28								
29																		30								
					TOT	AL LOAD:	57.64	kVA	57.64	kVA	55.64	kVA														

PANEL NOTES: PROVIDE DOOR WITH LOCK AND HINGED TRIM

PROVIDE COPPER GROUND AND NEUTRAL BUS

PROVIDE FULL SIZE NEUTRAL BUS, U.O.N.

BREAKER TYPES:	LO - INDICATES "LOCK-ON" DEVICE GFCI - INDICATES GROUND FAULT DEVICE	ST - INDICATES SHUNT TRIP DEVICE GFPE - INDICATES GROUND FAULT F		AFCI - INDICATES ARC FAULT PROTECTED DEVICE		
Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand	Panel Totals		
Receptacle	0 kVA	0.00%	0 kVA			
Motor	0 kVA	0.00%	0 kVA	Total Connected Load:	170.92 kVA	
HVAC	19 kVA	100.00%	19 kVA	Total Connected Amps:	474.43 A	
Lighting	0 kVA	0.00%	0 kVA	Total Estimated Demand:	170.92 kVA	
Equipment	0 kVA	0.00%	0 kVA	Total Estimated Demand Amps:	474.43 A	
Kitchen Equipment	0 kVA	0.00%	0 kVA			





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PUBLIC INSTRUCTION

NEW WORK PLAN

E2.00

