#### ABBREVIATIONS:

AMP AMPERE, AMPERES AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AIC AMPERE INTERRUPTING CAPACITY ATS AUTOMATIC TRANSFER SWITCH AWG AMERICAN WIRE GAUGE CATV CABLE TELEVISION C CONDUIT	
CAP CAPACITY CB CIRCUIT BREAKER CCTV CLOSED CIRCUIT TELEVISION CKT CIRCUIT CND CONDUIT DIA DIAMETER	
DWG DRAWING EC ELECTRICAL CONTRACTOR ECB ENCLOSED CIRCUIT BREAKER ETR EXISTING TO REMAIN EX EXISTING EXIST EXISTING FAAP FIRE ALARM ANNUNCIATOR PANEL	
FACP FIRE ALARM CONTROL PANEL FLA FULL LOAD AMPERES FRM FRAME FSS FUSED SAFETY SWITCH GFI GROUND FAULT INTERRUPTING G GROUND	
GND GROUND HID HIGH-INTENSITY DISCHARGE HOA HAND-OFF-AUTOMATIC HP HORSEPOWER IDF INTERMEDIATE DISTRIBUTION FRAMI IMC INTERMEDIATE METAL CONDUIT KCMIL THOUSAND CIRCULAR MILS	E
KVA KILOVOLT-AMPERES KW KILOWATT LRA LOCKED ROTOR AMPERES LTG LIGHTING MCA MINIMUM CIRCUIT AMPACITY MCB MAIN CIRCUIT BREAKER	
MCP MOTOR CIRCUIT PROTECTOR MDF MAIN DISTRIBUTION FRAME MDP MAIN DISTRIBUTION PANEL MH MOUNTING HEIGHT/MANHOLE MIN MINIMUM MLO MAIN LUGS ONLY	
MTD MOUNTED NEC NATIONAL ELECTRICAL CODE NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION NFSS NONFUSED SAFETY SWITCH NIC NOT IN CONTRACT	
NO NUMBER OC ON CENTER P POLE, POLES Ø PHASE PNL PANEL PVC POLYVINYL CHLORIDE	
REC RECEPTACLE RECEPT RECEPTACLE RGS RIGID GALVANIZED STEEL RL RELOCATED RM ROOM RR REMOVE AND REINSTALL	
RX REMOVE EXISTING TTB TELEPHONE TERMINAL BOARD TYP TYPICAL V VOLT, VOLTS VR VANDALL RESISTANT W WATTS/WIRE, WIRES	
WP WEATHÉRPROOF XFMR TRANSFORMER TTB TELEPHONE TERMINAL BOARD UG UNDERGROUND UON UNLESS OTHERWISE NOTED UTP UNSHIELDED TWISTED PAIR	

## EQUIPMENT LEGEND:

1.000 //	AIR COOLED CONDENSING UNIT
AHU-x	AIR HANDLING UNIT
EF-x	EXHAUST FAN
F-x	FAN
(-x) SU	FFIX DENOTES EQUIPMENT NUMBER

## ELECTRICAL SPECIFICATIONS AND GENERAL NOTES

## **SECTION 16 - ELECTRICAL** PART 1 - GENERAL

#### INSTRUCTIONS TO BIDDERS

THE ITEMS INCLUDED IN "INSTRUCTIONS TO BIDDERS". "GENERA CONDITIONS". AND "SPECIAL CONDITIONS" OF THE GENERAL CONSTRUCTION SPECIFICATIONS ARE HEREBY MADE A PART OF SPECIFICATION, AND ALL PROVISIONS SHALL BE CAREFULLY NO THIS CONTRACTOR, AND ALL REQUIREMENTS COMPLETELY FUI THE ENTIRE SATISFACTION OF THE ENGINEER AND OWNER.

#### RELATED DOCUMENTS

THE GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GEN AND SUPPLEMENTARY CONDITIONS AND GENERAL REQUIREME ANY), APPLY TO THE WORK SPECIFIED IN THIS SECTION.

#### DESCRIPTION OF THE WORK

THE EXTENT OF THE ELECTRICAL WORK IS GENERALLY INDICA THE CONTRACT DOCUMENTS BY THE DRAWINGS AND INCLUDES WIRING SYSTEMS, DEVICES AND EQUIPMENT.

#### EXCAVATION AND BACK FILL

THE EXTENT OF THE EXCAVATION AND BACK FILL REQUIRED FO ELECTRICAL WORK IS INDICATED ON THE DRAWINGS AND IS HEI DEFINED TO INCLUDE WHATEVER EXCAVATING AND BACK FILLI NECESSARY TO INSTALL THE ELECTRICAL WORK. PERFORM THE EXCAVATION AND BACK FILL IN ACCORDANCE WITH THE DRAWI

#### CODES AND PERMITS

IN GENERAL, COMPLY WITH REGULATIONS OF EVERY LAWFUL A HAVING JURISDICTION OVER THE WORK. WHERE GOVERNING **REGULATIONS REQUIRE NOTICES, PERMITS, LICENSES, INSPEC** TESTS AND SIMILAR ITEM OR ACTIONS IN ORDER TO LAWFULLY WITH THE REQUIRED ELECTRICAL WORK, OBTAIN THESE ITEMS THOSE ACTIONS REQUIRED.

#### SHOP DRAWINGS

PRIOR TO INSTALLATION, PROVIDE 1 COPY AND ELECTRONIC CO OF SHOP DRAWINGS EQUIPMENT. REFRAIN FROM INSTALLATIO EQUIPMENT UNTIL APPROVED SHOP DRAWINGS ARE RETURNED

## ELECTRICAL WORK CLOSE OUT

PRIOR TO DEMONSTRATION OF THE WORK, CLEAN EQUIPMENT LUBRICATE EQUIPMENT AND TOUCH UP PAINTED FINISHES. CHE EACH SYSTEM TO DETERMINE THAT IT IS SET FOR PROPER OPE OPERATE EACH SYSTEM AND IN A TEST RUN OF APPROPRIATE DURATION TO DEMONSTRATE COMPLIANCE WITH PERFORMING REQUIREMENTS. EXPLAIN THE OPERATION TO THE OWNERS PERSONNEL AND PROVIDE 3 SETS OF OPERATING MANUALS.

## REMOVAL AND RELOCATION

REMOVE ALL MATERIAL AND EQUIPMENT MADE OBSOLETE BY T RENOVATIONS AND ADDITIONS. IF ANY EXISTING EQUIPMENT OI WHICH ARE TO REMAIN, INTERFACE WITH NEW CONSTRUCTION AS REQUIRED. RELOCATE ALL ITEMS NOTED ON THE PLANS IN ACCORDANCE WITH REQUIREMENTS FOR NEW WORK.

## CUTTING AND PATCHING

(A) PERFORM ALL NECESSARY CUTTING AND PATCHING OF FLO PARTITIONS OR CEILINGS REQUIRED FOR THE PROPER INSTALL THE WORK. REPAIR ALL AREAS DISTURBED BY THIS WORK, INCI FINISHES, WITH MATERIALS WHICH MATCH THE EXISTING IN TYP APPEARANCE.

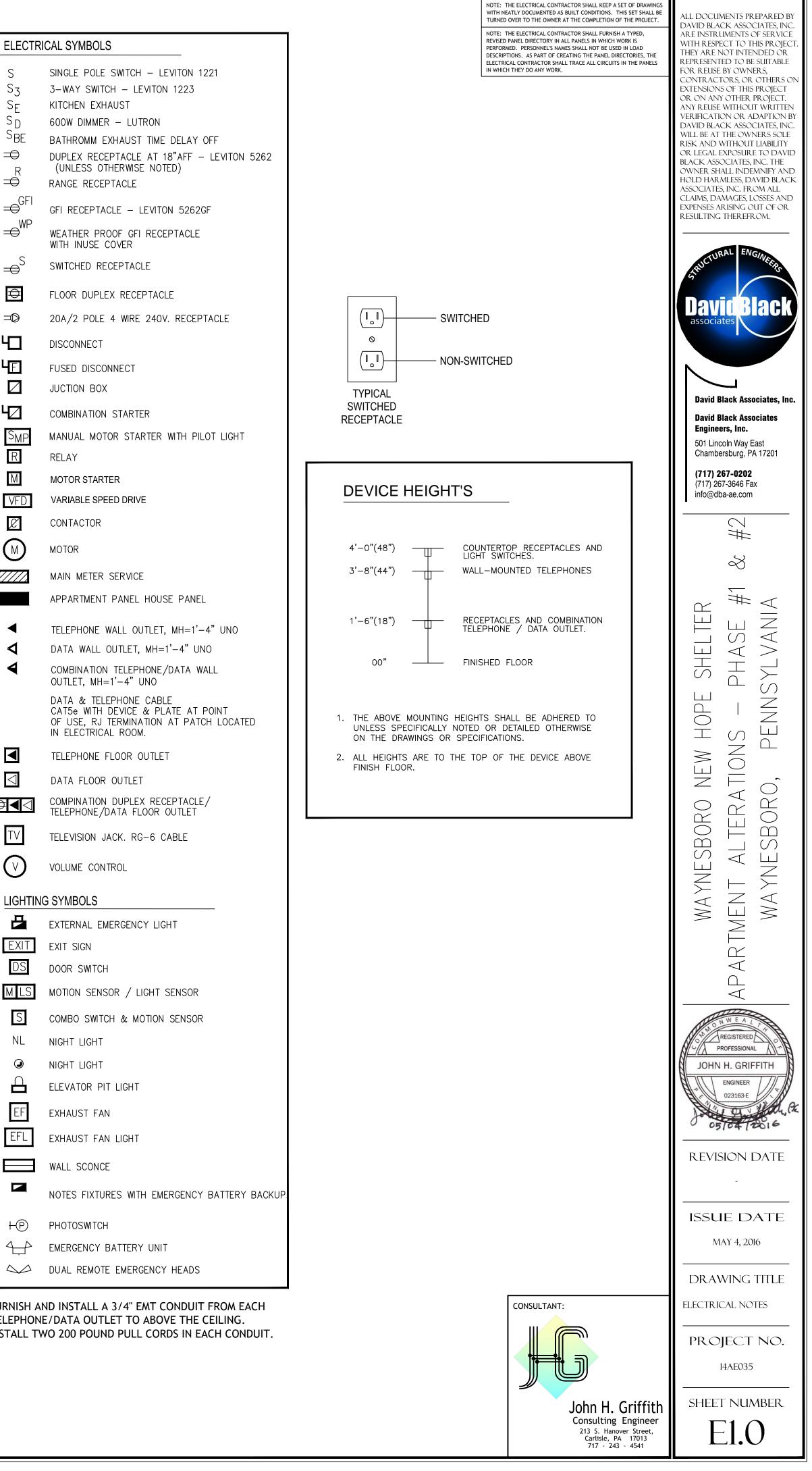
		] [	ELECTR	ICAL SYMBOLS
RAL OF THIS NOTED BY ULFILLED TO	THE TELEPHONE/DATA LOCATIONS IN THE OFFICES ALL WILL REQUIRE A SECURITY CABLE TO BE PROVIDED BY THE SECURITY CONTRACTOR AND INSTALLED BY THE EC. THE EC IS TO PROVIDE AND INSTALL THE DATA/TELCO CABLING. THE SECURITY VENDOR WILL INSTALL AND TERMINATE THEIR DEVICES AND		S Sz SD SBE ₽ R₽	SINGLE POLE SWITCH 3-WAY SWITCH - LE KITCHEN EXHAUST 600W DIMMER - LUTF BATHROMM EXHAUST DUPLEX RECEPTACLE (UNLESS OTHERWISE RANGE RECEPTACLE
	EQUIPMENT.		⇒GFI	GFI RECEPTACLE – L
ENERAL IENTS (IF	THE VARIABLE SPEED CONTROL FOR THE BATHROOM FANS AND JANITOR CLOSET COMES WITH THE FAN AND THE EC MOUNTS AND WIRES.		=⊖ <sup>WP</sup>	WEATHER PROOF GFI WITH INUSE COVER
	PART 2 - PRODUCTS WIRING MATERIALS		⇒ <sup>S</sup>	SWITCHED RECEPTACL
ATED IN	MC CABLE		$\Phi$	FLOOR DUPLEX RECEF
ES	RIGID STEEL CONDUIT: ZINC COATED F. S. WW-C-581 WITH GALVANIZED THREADED COUPLINGS, ELLS, BUSHINGS AND ADAPTERS.			20A/2 POLE 4 WIRE
	GALVANIZED CONDOLET FITTINGS.		40	DISCONNECT
FOR THE IEREBY _ING IS	ELECTRIC METALLIC TUBING: ZINC COATED F. S. WW-C-663 WITH GALVANIZED COMPRESSION TYPE COUPLINGS OR GALVANIZED SET SCREW CONNECTIONS.		LE □	FUSED DISCONNECT JUCTION BOX
HE VINGS.			42	COMBINATION STARTE
	PLASTIC CONDUIT: FEDERAL SPECIFICATIONS W-C-1904 DEVICES:		S <sub>MP</sub>	MANUAL MOTOR STAR
AUTHORITY	BOXES: PRESSED GALVANIZED STEEL, EXCEPT CAST METAL FOR WET LOCATIONS AND SURFACE MOUNTING. FOR CONCEALED BOXES, RAISED		R	RELAY
CTIONS,	COVERS TO CORRESPOND WITH FINISH. FOR TILE OR NO FINISH, SQUARE CORNER COVERS.			MOTOR STARTER
Y PROCEED IS AND TAKE	CONDUCTORS: COPPER FOR 600 VOLT SERVICE, 75°C INSULATION.		VFD	CONTACTOR
	MINIMUM 12 AWG(SOLID) FOR 120 VOLTS NOT MORE THAN 100' LONG.			MOTOR
COPY ON OF	BRANCH CIRCUITS AND FEEDERS, 2% MAXIMUM VOLTAGE DROP AT FULL LOAD. CONNECTORS: COMMERCIAL WIRE CONNECTORS OR SOLDERLESS PRESSURE CONNECTORS PROPERLY TAPED.			MAIN METER SERVICE
ED.	SAFETY SWITCHES: TYPE HD, NEMA STANDARD, FUSED, UL APPROVED.			APPARTMENT PANEL
T, HECK	DISCONNECT SWITCHES: SAME AS SAFETY SWITCHES EXCEPT SOLID COPPER BARS IN LIEU OF FUSES.		<ul> <li></li> <li><!--</td--><td>TELEPHONE WALL OU DATA WALL OUTLET,</td></li></ul>	TELEPHONE WALL OU DATA WALL OUTLET,
PERATION.	FUSES: ONE TIME, TIME DELAY, BUSSMANN RK-1.		4	COMBINATION TELEPH OUTLET, MH=1'-4" U
G	PART 3 - EXECUTION INSTALLATION			DATA & TELEPHONE CAT5e WITH DEVICE & OF USE, RJ TERMINA
THE OR SYSTEM, N, RELOCATE	GENERAL: COMPLY WITH THE LATEST PENNSYLVANIA APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE, NECA STANDARDS OF INSTALLATION, STATE AND LOCAL REGULATIONS, AND REQUIREMENTS OF THE UTILITY COMPANY. WIRING SHALL CONSIST OF INSULATED CONDUCTORS INSTALLED IN CONDUIT OR ELECTRIC METALLIC TUBING TO ACHIEVE PERMANENT SYSTEMS CAPABLE OF PERFORMING EACH INDICATED SERVICE WITHOUT FAILURE.		<ul> <li>▼</li> <li>▼</li> <li>▼</li> <li>▼</li> <li>▼</li> </ul>	IN ELECTRICAL ROOM TELEPHONE FLOOR OF DATA FLOOR OUTLET COMPINATION DUPLEX TELEPHONE/DATA FLO
-	LIGHTING FIXTURES: INSTALL BE IN ACCORDANCE WITH THE DRAWINGS AND MANUFACTURER'S WRITTEN INSTRUCTIONS.		TV	TELEVISION JACK. RG-
OORS, WALLS, LLATION OF	PANEL BOARDS: INSTALL BE IN ACCORDANCE WITH THE MANUFACTURE'S WRITTEN INSTRUCTIONS.		$\bigtriangledown$	VOLUME CONTROL
CLUDING YPE ANS	EQUIPMENT CONNECTIONS: PROVIDE POWER TO DISCONNECT - MOTOR STARTER- CONTROLLER - AND TO POINT OF CONNECTION ON ALL EQUIPMENT PROVIDED BY OTHERS.			G SYMBOLS EXTERNAL EMERGENC
	TEMPERATURE CONTROL: PROVIDE POWER TO CONTROLLER. CONTROL WIRING PROVIDED BY EQUIPMENT PROVIDER AND INSTALLER.		EXIT	EXIT SIGN
	LIGHTING CONTROL: TIE INTO WHERE SHOWN ON DRAWINGS AND PROVIDE WHERE REQUIRED CONSISTING OF PHOTO CELL, TIMER CLOCK CONTROLLER, CONTACTORS, MOTION SENSOR LIGHT SWITCHES, WALL SWITCHES AND AS REQUIRED FOR COMPLETE OPERABLE SYSTEM.		M LS S	DOOR SWITCH MOTION SENSOR / LIC COMBO SWITCH & MO
	SOUND, PUBLIC ADDRESS, & INTERCOM: NOT PART OF THIS CONTRACT EXCEPT AS SHOWN.		NL @	NIGHT LIGHT NIGHT LIGHT
	FIRE ALARM: SEE CODE REQUIREMENTS ON DRAWING X1.1.			ELEVATOR PIT LIGHT
	DATA, COMMUNICATIONS, TELEPHONE: FURNISH AND INSTALL 1 TELPHONE		EF	EXHAUST FAN
	AND 1 DATA OUTLET IN EACH APARTMENT LIVING AREA AND IN EACH BEDROOM. FURNISH AND INSTALL A 3/4" EMT CONDUIT FROM EACH TELEPHONE/DATA OUTLET TO ABOVE THE CEILING. INSTALL TWO 200 POUND PULL CORDS IN EACH		EFL	EXHAUST FAN LIGHT
	CONDUIT.			WALL SCONCE
				NOTES FIXTURES WITH

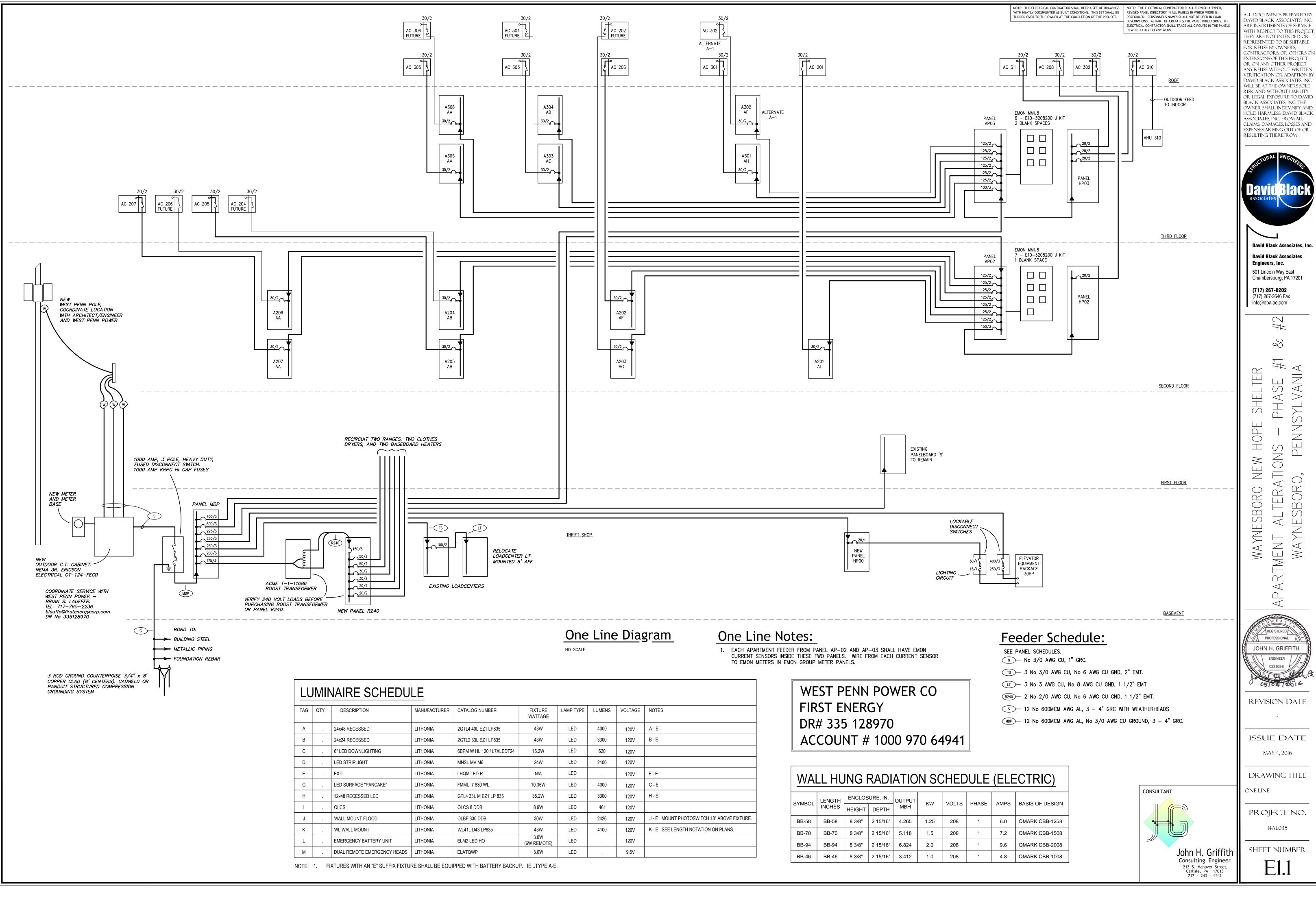
DUAL REMOTE EMERGENCY HEADS FURNISH AND INSTALL A 3/4" EMT CONDUIT FROM EACH

PHOTOSWITCH

HP

TELEPHONE/DATA OUTLET TO ABOVE THE CEILING. INSTALL TWO 200 POUND PULL CORDS IN EACH CONDUIT.





JFACTURER	CATALOG NUMBER	FIXTURE WATTAGE	LAMP TYPE	LUMENS	VOLTAGE	NOTES
AINC	2GTL4 40L EZ1 LP835	43W	LED	4000	120V	A - E
AINC	2GTL2 33L EZ1 LP835	43W	LED	3300	120V	B - E
AINC	6BPM W HL 120 / L7XLEDT24	15.2W	LED	620	120V	
AINC	MNSL MV M6	24W	LED	2100	120V	
AINC	LHQM LED R	N/A	LED		120V	E-E
AINC	FMML 7 830 WL	10.35W	LED	4000	120V	G-E
AINC	GTL4 33L M EZ1 LP 835	35.2W	LED	3300	120V	H-E
AINC	OLCS 8 DDB	8.9W	LED	461	120V	
AINC	OLBF 830 DDB	30W	LED	2426	120V	J-E MOUNT PHOTOSWITCH 18" ABOVE FIXTURE
AINC	WL41L D43 LP835	43W	LED	4100	120V	K - E SEE LENGTH NOTATION ON PLANS.
AINC	ELM2 LED HO	3.0W (6W REMOTE)	LED		120V	
ONIA	ELATQWP	3.0W	LED		9.6V	

SYMBOL	LENGTH	ENCLOS	URE, IN.	OUTPUT	
STNBOL	INCHES	HEIGHT	DEPTH	MBH	
BB-58	BB-58	8 3/8"	2 15/16"	4.265	
BB-70	BB-70	8 3/8"	2 15/16"	5.118	
BB-94	BB-94	8 3/8"	2 15/16"	6.824	
BB-46	BB-46	8 3/8"	2 15/16"	3.412	

# NOTE:

1	REFRIGERATOR	1200	10		20A/1	MC	2-12/1-12G	RECEPTACLE
3	KITCHEN COUNTER RECEPT	1500		12.5	20A/1	MC	2-12/1-12G	GFI
5	KITCHEN-BATH LIGHTS	120	1		20A/1	MC	2-12/1-12G	ARC FLASH
7	RANGE -KITCHEN	7500	36.1		45A/2	1	3-8/1-10G	RECEPTACLE
9				<mark>36.1</mark>				
11	WATER HEATER	3380	16.2		30A/2	MC	2-10/1-10G	DISCONNECT
13				16.2				
15	LIVING SPACE HEAT	2000	9.6		20A/2	MC	2-12/1-12G	LV THERMOSTAT
17				9.6				BATHROOM
<mark>1</mark> 9								
21								
23	KITCHEN COUNTER RECEPT	1500			20A/1	MC	2-12/1-12G	GFI
2	BATH RECEPT	180	1.5		20A/1	MC	2-12/1-12G	GFI
4	LIVING ROOM RECEPT	900		7.5	20A/1	MC	2-12/1-12G	ARC FLASH
6								
8	HVAC CONDENSOR	2829	<mark>13.6</mark>		20A/2	MC	2-12/1-12G	DISCONNECT
10				13.6				
12	HVAC AIR HANDLER	516	4.3		20A/1	MC	2-12/1-12G	DISCONNECT
14	RADIANT HEATING PANEL	500		4.2	20A/1	MC	2-12/1-12G	LV THERMOSTAT
16	SPARE				20A1			
18	SPARE				20A1			
20	SPACE							
22	SPACE							
24	SPACE							
	TOTAL	22125	92.3	99.7				
/OLTS	MAIN LUG				125A/2	2	3-1/0 /1-6G	ALUM WIRE
					GROUND	BUSS	TRIM	ENCLOSURE
120/208					STANDARD			NEMA-1
HASE						AL	FLUSH	
ONE								
INE							1	

B CIRCIUT BREAKER CONDUIT

WIRE

NOTES

CIRCUIT NUMBER

DESCRIPTION

LOAD

A

CIRCUIT	DESCRIPTION	LOAD	A	В	CIRCIUT	CONDUIT	WRE	NOTES	CIRCUIT	DESCRIPTION	LOAD	٨	В	CIRCIUT	CONDUIT	WIRE	NOTES
NUMBER			112		BREAKER				NUMBER			A	D	BREAKER		Research States	
1	REFRIGERATOR	1200	10		20A/1	MC	2-12/1-12G	RECEPTACLE	1	REFRIGERATOR	1200	10		20A/1	MC	2-12/1-12G	RECEPTACLE
3	KITCHEN COUNTER RECEPT	1500		12.5	20A/1	MC	2-12/1-12G	GFI	3	KITCHEN COUNTER RECEPT	1500		12.5	20A/1	MC	2-12/1-12G	GFI
5	KITCHEN-BATH LIGHTS	120	1		20A/1	MC	2-12/1-12G	ARC FLASH	5	KITCHEN-BATH LIGHTS	120	1		20A/1	MC	2-12/1-12G	ARC FLASH
7	RANGE -KITCHEN	7500	36.1		45A/2	1	3-8/1-10G	RECEPTACLE	7	RANGE -KITCHEN	7500	36.1		45A/2	1	3-8/1-10G	RECEPTACLE
9				36.1					9				36.1				
11	WATER HEATER	3380	16.2	••••••	30A/2	MC	2-10/1-10G	DISCONNECT	11	WATER HEATER	3380	<mark>16.2</mark>		30A/2	MC	2-10/1-10G	DISCONNECT
13				16.2					13				<mark>16.</mark> 2				
15	LIVING SPACE HEAT	1500	7.2		20A/2	MC	2-12/1-12G	LV THERMOSTAT	15	LIVING SPACE HEAT	2000	9.6		20A/2	MC	2-12/1-12G	LV THERMOSTAT
17				7.2				BATHROOM	17				9.6				BATHROOM
19	BEDROOM HEAT	1000	<mark>4.8</mark>		20A/2	MC	2-12/1-12G	LV THERMOSTAT	19	BEDROOM HEAT	1250	6		20A/2	МС	2-12/1-12G	LV THERMOSTAT
21				4.8				BEDROOM1	21				6				BEDROOM1
23	KITCHEN COUNTER RECEPT	1500			20A/1	MC	2-12/1-12G	GFI	23	KITCHEN COUNTER RECEPT	1500			20A/1	MC	2-12/1-12G	GFI
2	BATH RECEPT	180	1.5		20A/1	MC	2-12/1-12G	GFI	2	BATH RECEPT	180	<mark>1.</mark> 5		20A/1	MC	2-12/1-12G	GFI
4	LIVING ROOM RECEPT	1080		9	20A/1	MC	2-12/1-12G	ARC FLASH	4	LIVING ROOM RECEPT	1080		9	20A/1	MC	2-12/1-12G	ARC FLASH
6	BEDROOM-1 RECEPT	900	7.5		20A/1	MC	2-12/1-12G	ARC FLASH	6	BEDROOM-1 RECEPT	900	7.5		20A/1	MC	2-12/1-12G	ARC FLASH
8	HVAC CONDENSOR	2829	<mark>13.6</mark>		20A/2	MC	2-12/1-12G	DISCONNECT	8	HVAC CONDENSOR	2829	<mark>13.6</mark>		20A/2	MC	2-12/1-12G	DISCONNECT
10				13.6					10				13.6				
12	HVAC AIR HANDLER	516	4.3		20A/1	MC	2-12/1-12G	DISCONNECT	12	HVAC AIR HANDLER	<mark>516</mark>	<mark>4.</mark> 3		20A/1	MC	2-12/1-12G	DISCONNECT
14	RADIANT HEATING PANEL	500		4.2	20A/1	MC	2-12/1-12G	LV THERMOSTAT	14	RADIANT HEATING PANEL	500		4.2	20A/1	MC	2-12/1-12G	LV THERMOSTAT
16	SPARE				20A1				16	SPARE				20A1			
18	SPARE				20A1				18	SPARE				20A1			
20	SPACE								20	SPACE							
22	SPACE								22	SPACE							
24	SPACE								24	SPACE							
	TOTAL	23705	102.2	103.6						TOTAL	24455	105.8	107.2				
VOLTS	MAIN LUG				125A/2	2	3-1/0-1-6G	ALUM WIRE	VOLTS	MAIN LUG				125A/2	2	3-1/0-1-6G	ALUM
					GROUND	BUSS	TRIM	ENCLOSURE						GROUND	BUSS	TRIM	ENCLOSURE
120/208					STANDARD		SURFACE	NEMA-1	120/208					STANDA RD			NEMA-1
PHASE						AL	FLUSH		PHASE						AL	FLUSH	
DNE									ONE								
	APARTMENT 203						PANEL	AG		APARTMENT 301						PANEL	AH

CIRCUIT NUMBER	DESCRIPTION	LOAD	A	В	CIRCIUT BREAKER	CONDUIT	WIRE	NOTES
1	REFRIGERATOR	1200	10		20A/1	MC	2-12/1-12G	RECEPTACLE
3	KITCHEN COUNTER RECEPT	1500		12.5	20A/1	MC	2-12/1-12G	GFI
5	KITCHEN-BATH LIGHTS	120	1		20A/1	MC	2-12/1-12G	ARC FLASH
7	RANGE -KITCHEN	7500	36.1		45A/2	1	3-8/1-10G	RECEPTACLE
9				36.1				
11	WATER HEATER	3380	16.2		30A/2	MC	2-10/1-10G	DISCONNECT
13				16.2				
15	LIVING SPACE HEAT	2000	9.6		20A/2	MC	2-12/1-12G	LV THERMOSTAT
17				9.6				BATHROOM
19	BEDROOM HEAT	2500	12		20A/2	МС	2-12/1-12G	LV THERMOSTAT
21				12				BEDROOM1
23	KITCHEN COUNTER RECEPT	1500	<mark>12.5</mark>		20A/1	MC	2-12/1-12G	GFI
2	BATH RECEPT	180	1.5		20A/1	MC	2-12/1-12G	GFI
4	LIVING ROOM RECEPT	900		7.5	20A/1	MC	2-12/1-12G	ARC FLASH
6	BEDROOM-1 RECEPT	900	6.7		20A/1	MC	2-12/1-12G	ARC FLASH
8	HVAC CONDENSOR	4597	22.1		30A/2	3/4	2-10/1-10G	DISCONNECT
10				22.1				
12	HVAC AIR HANDLER	<mark>516</mark>	4.3		20A/1	MC	2-12/1-12G	DISCONNECT
14	RADIANT HEATING PANEL	<mark>500</mark>		4.2	20A/1	МС	2-12/1-12G	LV THERMOSTAT
<mark>16</mark>	BEDROOM-2 RECEPT	900		6.7	20A/1	MC	2-12/1-12G	ARC FLASH
18	SPARE				20A2			LV THERMOSTAT
20	SPARE			6				BEDROOM 2
22	SPACE							
24	SPACE							
	TOTAL	28193	132	132.9				
VOLTS	MAIN LUG				125A/2	2	3-2/0-1-4G	ALUM WIRE
					GROUND	BUSS	TRIM	ENCLOSURE
120/208					STANDARD			NEMA-1
PHASE						AL	FLUSH	
ONE								
	BASE BID: APARTMENTS 207, FUTURE APARTMENTS: 206 & 3	& 305					PANEL	Λ Λ

	APARTMENT 205 FUTURE APARTMENT 204						PANEL	AB
DNE								
PHASE						AL	FLUSH	
120/208					STANDARD			NEMA-1
					GROUND	BUSS	TRIM	ENCLOSURE
OLTS	MAIN LUG				125A/2	2	3-1/0-1-6G	ALUM WIRE
	<u>TOTAL</u>	24275	<mark>118.3</mark>	105.7				
24	SPACE							
22	SPACE							
20	SPACE							
18	SPARE				20A1			
16	SPARE				20A1			
14	RADIANT HEATING PANEL	500		4.2	20A/1	MC	2-12/1-12G	LV THERMOSTA
12	HVAC AIR HANDLER	<mark>516</mark>	4.3		20A/1	МС	2-12/1-12G	DISCONNECT
10				13.6				
8	HVAC CONDENSOR	2829	13.6		20A/2	MC	2-12/1-12G	DISCONNECT
6	BEDROOM-1 RECEPT	900	7.5		20A/1	MC	2-12/1-12G	ARC FLASH
4	LIVING ROOM RECEPT	900	1.0	7.5		MC	2-12/1-12G	ARC FLASH
23	BATH RECEPT	180	1.5		20A/1	MC	2-12/1-12G	GFI
23	KITCHEN COUNTER RECEPT	1500	12.5		20A/1	МС	2-12/1-12G	GFI
21		1200	U	6				BEDROOM1
19	BEDROOM HEAT	1250	6	5.0	20A/2	МС	2-12/1-12G	LV THERMOSTA
15	LIVING SPACE HEAT	2000	9.0	9.6		me	2-12 1-123	LV THERMOSTAT
13 15		2000	9.6	10.2	20A/2	МС	2-12/1-12G	
11	WATER HEATER	3380	16.2	16.2	30A/2	MC	2-10/1-10G	DISCONNECT
9				36.1	204/2	MO	2 40/4 400	
7	RANGE -KITCHEN	7500	<u>36.1</u>		45A/2	1	3-8/1-10G	RECEPTACLE
5	KITCHEN-BATH LIGHTS	120	1		20A/1	MC	2-12/1-12G	ARC FLASH
3	KITCHEN COUNTER RECEPT	1500		12.5		MC	2-12/1-12G	GFI
1	REFRIGERATOR	1200	10		20A/1	MC	2-12/1-12G	RECEPTACLE
CIRCUIT NUMBER	DESCRIPTION	LOAD	A	В	CIRCIUT BREAKER	CONDUIT	WIRE	NOTES

FOR PANELS ASSOCIATED WITH FUTURE APARTMENTS, THE PANEL IS TO BE PROVIDED IN BASE BID WITH SERVICE WIRING INSTALLED TO PROVIDE POWER TO PANEL. NO OTHER ELECTRICAL WIRING TO BE INCLUDED IN BASE BID.

CIRCUIT	DESCRIPTION	LOAD	Δ	В	CIRCIUT	CONDUIT	WIRE	NOTES	CIRCUIT	DESCRIPTION	LOAD	A	В	CIRCIUT	CONDUIT	WIRE	NOTES
NUMBER		constant and a			BREAKER 20A/1	MC		Desires Terres-	NUMBER			10	5	BREAKER	MC	2-12/1-12G	
1		1200		12.5	20A/1 20A/1	MC		RECEPTACLE GFI		REFRIGERATOR KITCHEN COUNTER RECEPT	1200 1500	10	12.5	20A/1 20A/1	MC		RECEPTACLE GFI
ა 5	KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS	1500 120		12.0	20A/1	MC		ARC FLASH		KITCHEN-BATH LIGHTS	1300	1	12.0	20A/1 20A/1	MC	2-12/1-12G	ARC FLASH
7	RANGE -KITCHEN	7500			45A/2	1		RECEPTACLE		RANGE -KITCHEN	7500	36.1		45A/2	1	3-8/1-10G	RECEPTACLE
9				36.1					9				<mark>36.1</mark>				
11	WATER HEATER	3380	<u>16.2</u>		30A/2	MC	2-10/1-10G	DISCONNECT	11	WATER HEATER	3380	16.2		30A/2	МС	2-10/1-10G	DISCONNECT
13				<mark>16.</mark> 2					13				<mark>16</mark> .2				
	LIVING SPACE HEAT	2000	9.6		20A/2	MC		LV THERMOSTAT		LIVING SPACE HEAT	2000	9.6		20A/2	MC		LV THERMOSTAT
17		4050		9.6	20A/2	МС		BATHROOM	17	BEDROOM HEAT	1250	c	9.6	20A/2	МС	2-12/1-12G	BATHROOM LV THERMOSTAT
19 21	BEDROOM HEAT	1250	0	6	ZUAIZ	INC.		LV THERMOSTAT BEDROOM1	19 21		1200	Ö	6	208/2	wic .		BEDROOM1
23	KITCHEN COUNTER RECEPT	1500	12.5		20A/1	MC		GFI		KITCHEN COUNTER RECEPT	1500	12.5		20A/1	МС	2-12/1-12G	GFI
	BATH RECEPT	180	1.5		20A/1	MC	2-12/1-12G	GFI		BATH RECEPT	180	1.5		20A/1	МС	2-12/1-12G	GFI
4	LIVING ROOM RECEPT	<mark>900</mark>		7.5	20A/1	MC	2-12/1-12G	ARC FLASH	4	LIVING ROOM RECEPT	900		7.5	20A/1	МС	2-12/1-12G	ARC FLASH
6	BEDROOM-1 RECEPT	900	7.5		20A/1	MC		ARC FLASH		BEDROOM-1 RECEPT	900	7.5		20A/1	MC		ARC FLASH
8	HVAC CONDENSOR	2829	13.6	40.0	20A/2	MC	2-12/1-12G	DISCONNECT		HVAC CONDENSOR	4368	22.1	22.4	30A/2	MC	2-10/1-10G	DISCONNECT
10	HVAC AIR HANDLER	516	4.3	13.6	20A/1	МС	2-12/1-12G	DISCONNECT	10 12	HVAC AIR HANDLER	5 <b>1</b> 6	4.3	22.1	20A/1	МС	2-12/1-12G	DISCONNECT
12 14	RADIANT HEATING PANEL	500	4.3	4.2	20A/1	MC		LV THERMOSTAT		RADIANT HEATING PANEL	500	4.3	4.2	20A/1 20A/1	MC		LV THERMOSTAT
	SPARE			<b>T.</b>	20A1					SPARE				20A1			
18	SPARE				20A1					SPARE				20A1			
20	SPACE								20	SPACE							
22	SPACE									SPACE							
24	SPACE								24	SPACE							
	<u>TOTAL</u>	24275	1 <mark>18</mark> .3	105.7						<u>TOTAL</u>	25814	<mark>126.</mark> 8	114.2				
VOLTS	MAIN LUG				125A/2	2	3-1/0-1-6G	ALUM	VOLTS	MAIN LUG				125A/2	2	3-1/0-1-6G	ALUM WIRE
					GROUND	BUSS	TRIM	ENCLOSURE						GROUND	BUSS	TRIM	ENCLOSURE
120/208					STANDARD			NEMA-1	120/208					STANDARD			NEMA-1
PHASE						AL	FLUSH		PHASE						AL	FLUSH	
ONE									ONE								
	APARTMENT 303						PANEL	AC		FUTURE APARTMENT 304						PANEL	AD
CIRCUIT			Γ.		CIRCIUT				CIRCUIT		1015		_	CIRCIUT			10750
CIRCUIT NUMBER	DESCRIPTION	LOAD	A	В	BREAKER	CONDUIT	WIRE	NOTES	CIRCUIT NUMBER	DESCRIPTION	LOAD	А	В	CIRCIUT BREAKER	CONDUIT	WRE	NOTES
NUMBER 1	REFRIGERATOR	1200	10		BREAKER	MC	2-12/1-12G	RECEPTACLE	NUMBER 1	REFRIGERATOR	1200	A 10		BREAKER	MC	2-12/1-12G	RECEPTACLE
	REFRIGERATOR KITCHEN COUNTER RECEPT	1200 1500	10	B 12.5	BREAKER 20A/1 20A/1	MC MC	2-12/1-12G 2-12/1-12G	RECEPTACLE GFI	NUMBER 1 3	REFRIGERATOR KITCHEN COUNTER RECEPT	1200 1500	and a second		BREAKER 20A/1 20A/1	MC MC	2-12/1-12G 2-12/1-12G	RECEPTACLE GFI
NUMBER 1	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS	1200 1500 120	10 1		BREAKER 20A/1 20A/1 20A/1 20A/1	MC	2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH	NUMBER 1 3 5	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS	1200 1500 120	10 1		BREAKER 20A/1 20A/1 20A/1	MC	2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH
NUMBER 1	REFRIGERATOR KITCHEN COUNTER RECEPT	1200 1500	10 1		BREAKER 20A/1 20A/1	MC MC	2-12/1-12G 2-12/1-12G	RECEPTACLE GFI	NUMBER 1 3 5	REFRIGERATOR KITCHEN COUNTER RECEPT	1200 1500	and a second		BREAKER 20A/1 20A/1	MC MC	2-12/1-12G 2-12/1-12G	RECEPTACLE GFI
NUMBER 1 3 5 7	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS	1200 1500 120	10 1 36.1	12.5 36.1	BREAKER 20A/1 20A/1 20A/1 20A/1	MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH	NUMBER 1 3 5 7 9	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS	1200 1500 120	10 1	12.5 36.1	BREAKER 20A/1 20A/1 20A/1	MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH
NUMBER 1 3 5 7 9	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN	1200 1500 120 7500 3380	10 1 36.1 16.2	12.5 36.1	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2	MC MC 1 MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT	NUMBER 1 3 5 7 9 11 13	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER	1200 1500 120 7500 3380	10 1 36.1 16.2	12.5 36.1 16.2	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2	MC MC 1 MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT
NUMBER 1 3 5 7 9 11 13 15	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN	1200 1500 120 7500	10 1 36.1 16.2	12.5 36.1 16.2	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2	MC MC MC 1	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT	NUMBER 1 3 5 7 9 11 13 15	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN	1200 1500 120 7500	10 1 36.1	12.5 36.1 16.2	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2	MC MC MC 1	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT
NUMBER 1 3 5 7 9 11 13 15 17	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER LIVING SPACE HEAT	1200 1500 120 7500 3380 2000	10 1 36.1 16.2 9.6	12.5 36.1 16.2	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2	MC MC 1 MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM	NUMBER 1 3 5 7 9 11 13 15 17	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER LIVING SPACE HEAT	1200 1500 120 7500 3380 2000	10 1 36.1 16.2 9.6	12.5 36.1 16.2 9.6	BREA KER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2	MC MC 1 MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM
NUMBER 1 3 5 7 9 11 13 15 17 19	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER	1200 1500 120 7500 3380	10 1 36.1 16.2 9.6	12.5 36.1 16.2	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2	MC MC 1 MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT	NUMBER 1 3 5 7 9 11 13 15 17 19	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER	1200 1500 120 7500 3380	10 1 36.1 16.2	12.5 36.1 16.2 9.6	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2	MC MC MC 1 MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT
NUMBER 1 3 5 7 9 11 13 15 17	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER LIVING SPACE HEAT	1200 1500 120 7500 3380 2000	10 1 36.1 16.2 9.6	12.5 36.1 16.2	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2	MC MC 1 MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM	NUMBER 1 3 5 7 9 11 13 15 17 19 21	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER LIVING SPACE HEAT	1200 1500 120 7500 3380 2000	10 1 36.1 16.2 9.6 4.8	12.5 36.1 16.2 9.6	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2	MC MC 1 MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM
NUMBER 1 3 5 7 9 11 13 15 17 19 21	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER LIVING SPACE HEAT BEDROOM HEAT	1200 1500 7500 3380 2000 1250	10 1 36.1 16.2 9.6	12.5 36.1 16.2	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2	MC MC 1 MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1	NUMBER 1 3 5 7 9 11 13 15 17 19 21	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER LIVING SPACE HEAT BEDROOM HEAT	1200 1500 7500 3380 2000 1000	10 1 36.1 16.2 9.6 4.8	12.5 36.1 16.2 9.6	BREA KER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2	MC MC 1 MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1
NUMBER 1 3 5 7 9 11 13 15 17 19 21	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER LIVING SPACE HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT	1200 1500 7500 3380 2000 1250 1500	10 1 36.1 16.2 9.6 6 1.5	12.5 36.1 16.2	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1	MC MC 1 MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI	NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER LIVING SPACE HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT	1200 1500 7500 3380 2000 1000 1500	10 1 36.1 16.2 9.6 4.8	12.5 36.1 16.2 9.6	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/2 20A/1 20A/1 20A/1	MC MC 1 MC MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI
NUMBER 1 3 5 7 9 11 13 15 17 19 21	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVING SPACE HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT	1200 1500 7500 3380 2000 1250 1500 180 1080 900	10 1 36.1 16.2 9.6 6 1.5 7.5	12.5 36.1 16.2 9.6 6	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1	MC MC 1 MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI ARC FLASH ARC FLASH	NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER LIVING SPACE HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT	1200 1500 7500 3380 2000 1000 1500 180 900 900	10 1 36.1 16.2 9.6 4.8 1.5 7.5	12.5 36.1 16.2 9.6 4.8 7.5	BREA KER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1	MC MC 1 MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI ARC FLASH ARC FLASH
NUMBER 1 3 5 7 9 11 13 15 17 19 21 23 2 4 6 8	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER LIVING SPACE HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT	1200 1500 7500 3380 2000 1250 1500 180 1080	10 1 36.1 16.2 9.6 6 1.5 7.5	12.5 36.1 16.2 9.6 6	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1	MC MC 1 MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI ARC FLASH	NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER LIVING SPACE HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT	1200 1500 7500 3380 2000 1000 1500 180 900	10 1 36.1 16.2 9.6 4.8	12.5 36.1 16.2 9.6 4.8 7.5	BREA KER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1	MC MC 1 MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI GFI ARC FLASH
NUMBER 1 3 5 7 9 11 13 15 17 19 21 23 2 4 6 8 10	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVING SPACE HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR	1200 1500 7500 3380 2000 1250 1500 180 1080 900 2829	10 1 36.1 16.2 9.6 6 1.5 7.5 13.6	12.5 36.1 16.2 9.6 6 9	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1	MC MC 1 MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI GFI ARC FLASH ARC FLASH DISCONNECT	NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8           10	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER LIVING SPACE HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR	1200 1500 7500 3380 2000 1000 1500 180 900 900 2829	10 1 36.1 16.2 9.6 4.8 1.5 7.5 13.6	12.5 36.1 16.2 9.6 4.8 7.5 13.6	BREA KER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1	MC MC 1 MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI ARC FLASH ARC FLASH ARC FLASH
NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8           10           12	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER WATER HEATER LIVING SPACE HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR	1200 1500 7500 3380 2000 1250 1500 180 1080 900 2829 516	10 1 36.1 16.2 9.6 6 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 6 9	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/2	MC MC 1 MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI ARC FLASH ARC FLASH DISCONNECT DISCONNECT	NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8           10           12	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVING SPACE HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER	1200 1500 7500 3380 2000 1000 1500 180 900 900 2829 516	10 1 36.1 16.2 9.6 4.8 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 4.8 7.5 13.6	BREA KER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/2 20A/2	MC MC 1 MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI ARC FLASH ARC FLASH DISCONNECT
NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8           10           12	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVING SPACE HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR	1200 1500 7500 3380 2000 1250 1500 180 1080 900 2829	10 1 36.1 16.2 9.6 6 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 6 9	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/2	MC MC 1 MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI ARC FLASH ARC FLASH DISCONNECT	NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8           10           12           14	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVING SPACE HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER RADIANT HEATING PANEL	1200 1500 7500 3380 2000 1000 1500 180 900 900 2829	10 1 36.1 16.2 9.6 4.8 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 4.8 7.5 13.6	BREA KER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/2 20A/2	MC MC 1 MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI ARC FLASH ARC FLASH ARC FLASH
NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8           10           12           14           16	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVING SPACE HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER RADIANT HEATING PANEL	1200 1500 7500 3380 2000 1250 1500 180 1080 900 2829 516	10 1 36.1 16.2 9.6 6 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 6 9	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/2 3 20A/2	MC MC 1 MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI ARC FLASH ARC FLASH DISCONNECT DISCONNECT	NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8           10           12           14           16	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVING SPACE HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER	1200 1500 7500 3380 2000 1000 1500 180 900 900 2829 516	10 1 36.1 16.2 9.6 4.8 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 4.8 7.5 13.6	BREA KER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1	MC MC 1 MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI ARC FLASH ARC FLASH DISCONNECT
NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8           10           12           14           16	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER WATER HEATER LIVING SPACE HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER RADIANT HEATING PANEL SPARE	1200 1500 7500 3380 2000 1250 1500 180 1080 900 2829 516	10 1 36.1 16.2 9.6 6 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 6 9	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1	MC MC 1 MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI ARC FLASH ARC FLASH DISCONNECT DISCONNECT	NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8           10           12           14           16           18	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVING SPACE HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER RADIANT HEATING PANEL SPARE	1200 1500 7500 3380 2000 1000 1500 180 900 900 2829 516	10 1 36.1 16.2 9.6 4.8 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 4.8 7.5 13.6	BREA KER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1	MC MC 1 MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI ARC FLASH ARC FLASH DISCONNECT
NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8           10           12           14           16           18           20           22	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVING SPACE HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER RADIANT HEATING PANEL SPARE SPARE SPACE	1200 1500 7500 3380 2000 1250 1500 180 1080 900 2829 516	10 1 36.1 16.2 9.6 6 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 6 9	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1	MC MC 1 MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI ARC FLASH ARC FLASH DISCONNECT DISCONNECT	NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8           10           12           14           16           18           20           22	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVATER HEATER BEDROOM HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER RADIANT HEATING PANEL SPARE SPARE SPACE	1200 1500 7500 3380 2000 1000 1500 180 900 900 2829 516	10 1 36.1 16.2 9.6 4.8 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 4.8 7.5 13.6	BREA KER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1	MC MC 1 MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI ARC FLASH ARC FLASH DISCONNECT
NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8           10           12           14           16           18           20           22	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVING SPACE HEAT BEDROOM HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER RADIANT HEATING PANEL SPARE SPARE SPACE SPACE SPACE	1200 1500 7500 3380 2000 1250 1500 180 1080 900 2829 516	10 1 36.1 16.2 9.6 6 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 6 9	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1	MC MC 1 MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI ARC FLASH ARC FLASH DISCONNECT DISCONNECT	NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8           10           12           14           16           18           20           22	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVATER HEATER BEDROOM HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER RADIANT HEATING PANEL SPARE SPARE SPACE SPACE SPACE	1200 1500 7500 3380 2000 1000 1500 180 900 900 2829 516 500	10 1 36.1 16.2 9.6 4.8 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 4.8 7.5 13.6	BREA KER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1	MC MC 1 MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI ARC FLASH ARC FLASH DISCONNECT
NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8           10           12           14           16           18           20           22           24	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVING SPACE HEAT BEDROOM HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER RADIANT HEATING PANEL SPARE SPARE SPACE SPACE SPACE	1200 1500 7500 3380 2000 1250 1500 180 1080 900 2829 516	10 1 36.1 16.2 9.6 6 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 6 9	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/2 3 3 3 3 3 3 3 3 3 3 3 3 3	MC MC 1 MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI GFI ARC FLASH ARC FLASH DISCONNECT DISCONNECT LV THERMOSTAT	NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8           10           12           14           16           18           20           22           24	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVING SPACE HEAT BEDROOM HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER RADIANT HEATING PANEL SPARE SPARE SPACE SPACE SPACE SPACE	1200 1500 7500 3380 2000 1000 1500 180 900 900 2829 516 500	10 1 36.1 16.2 9.6 4.8 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 4.8 7.5 13.6	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1	MC MC 1 MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI GFI ARC FLASH ARC FLASH DISCONNECT DISCONNECT LV THERMOSTAT
NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8           10           12           14           16           18           20           22	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVING SPACE HEAT BEDROOM HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER RADIANT HEATING PANEL SPARE SPARE SPACE SPACE SPACE	1200 1500 7500 3380 2000 1250 1500 180 1080 900 2829 516 500	10 1 36.1 16.2 9.6 6 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 6 9 13.6 4.2	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1	MC MC 1 MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI GFI ARC FLASH ARC FLASH DISCONNECT DISCONNECT LV THERMOSTAT	NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8           10           12           14           16           18           20           22	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVATER HEATER BEDROOM HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER RADIANT HEATING PANEL SPARE SPARE SPACE SPACE SPACE	1200 1500 7500 3380 2000 1000 1500 180 900 900 2829 516 500	10 1 36.1 16.2 9.6 4.8 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 4.8 7.5 13.6 4.2	BREA KER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1	MC MC 1 MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI ARC FLASH ARC FLASH DISCONNECT
NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8           10           12           14           16           18           20           22           24	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVING SPACE HEAT BEDROOM HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER RADIANT HEATING PANEL SPARE SPARE SPACE SPACE SPACE	1200 1500 7500 3380 2000 1250 1500 180 1080 900 2829 516 500	10 1 36.1 16.2 9.6 6 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 6 9 13.6 4.2	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/2 3 3 3 3 3 3 3 3 3 3 3 3 3	MC MC 1 MC MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI GFI ARC FLASH ARC FLASH DISCONNECT DISCONNECT LV THERMOSTAT	NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8           10           12           14           16           18           20           22           24	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVING SPACE HEAT BEDROOM HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER RADIANT HEATING PANEL SPARE SPARE SPACE SPACE SPACE SPACE	1200 1500 7500 3380 2000 1000 1500 180 900 900 2829 516 500	10 1 36.1 16.2 9.6 4.8 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 4.8 7.5 13.6 4.2	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1	MC MC 1 MC MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI GFI ARC FLASH ARC FLASH DISCONNECT DISCONNECT LV THERMOSTAT
NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8           10           12           14           16           18           20           22           24	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVING SPACE HEAT BEDROOM HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER RADIANT HEATING PANEL SPARE SPARE SPACE SPACE SPACE	1200 1500 7500 3380 2000 1250 1500 180 1080 900 2829 516 500	10 1 36.1 16.2 9.6 6 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 6 9 13.6 4.2	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/2 125A/2	MC MC 1 MC MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI ARC FLASH ARC FLASH DISCONNECT DISCONNECT LV THERMOSTAT DISCONNECT LV THERMOSTAT	NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8           10           12           14           16           18           20           22           24	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVING SPACE HEAT BEDROOM HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER RADIANT HEATING PANEL SPARE SPARE SPACE SPACE SPACE SPACE	1200 1500 7500 3380 2000 1000 1500 180 900 900 2829 516 500	10 1 36.1 16.2 9.6 4.8 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 4.8 7.5 13.6 4.2 104.5	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1	MC MC 1 MC MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BEDROOM1 GFI GFI GFI ARC FLASH ARC FLASH DISCONNECT DISCONNECT LV THERMOSTAT
NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8           10           12           14           16           18           20           22           24           VOLTS	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVING SPACE HEAT BEDROOM HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER RADIANT HEATING PANEL SPARE SPARE SPACE SPACE SPACE	1200 1500 7500 3380 2000 1250 1500 180 1080 900 2829 516 500	10 1 36.1 16.2 9.6 6 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 6 9 13.6 4.2	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/2 3 20A/2 20A/1 20A/2 3 20A/2 20A/2 20A/2 20A/2 20A/2 20A/2 20A/2 20A/2 20A/2 20A/2 20A/2 20A/2 20A/1 2	MC MC 1 MC MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BATHROOM1 GFI GFI GFI ARC FLASH ARC FLASH DISCONNECT DISCONNECT LV THERMOSTAT DISCONNECT LV THERMOSTAT	NUMBER         1         3         5         7         9         11         13         15         17         19         21         23         2         4         6         8         10         12         14         16         18         20         22         24	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVING SPACE HEAT BEDROOM HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER RADIANT HEATING PANEL SPARE SPARE SPACE SPACE SPACE SPACE	1200 1500 7500 3380 2000 1000 1500 180 900 900 2829 516 500	10 1 36.1 16.2 9.6 4.8 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 4.8 7.5 13.6 4.2 104.5	BREA KER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/2 C C C C C C C C C C C C C	MC MC 1 MC MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G	RECEPTACLEGFIARC FLASHRECEPTACLEDISCONNECTLV THERMOSTATBATHROOMLV THERMOSTATBEDROOM1GFIGFIARC FLASHARC FLASHDISCONNECTDISCONNECTDISCONNECTARC FLASHDISCONNECTLV THERMOSTATBEDROOM1GFIARC FLASHARC FLASHALUMENCLOSURE
NUMBER 1 3 5 7 9 11 13 15 17 19 21 23 2 4 6 8 10 12 14 16 18 20 22 24 VOLTS 120/208	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UWING SPACE HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER RADIANT HEATING PANEL SPARE SPARE SPACE SPACE SPACE <u>TOTAL</u> MAIN LUG	1200 1500 7500 3380 2000 1250 1500 180 1080 900 2829 516 500	10 1 36.1 16.2 9.6 6 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 6 9 13.6 4.2	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/2 3 20A/2 20A/1 20A/2 3 20A/2 20A/2 20A/2 20A/2 20A/2 20A/2 20A/2 20A/2 20A/2 20A/2 20A/2 20A/2 20A/1 2	MC MC 1 MC MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 3-1/0-1-6G TRIM	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BATHROOM1 GFI GFI GFI ARC FLASH ARC FLASH DISCONNECT DISCONNECT LV THERMOSTAT DISCONNECT LV THERMOSTAT	NUMBER         1         3         5         7         9         11         13         15         17         19         21         23         2         4         6         8         10         12         14         16         18         20         22         24         VOL TS         120/208	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVATER HEATER IIVING SPACE HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER RADIANT HEATING PANEL SPARE SPARE SPACE SPACE SPACE SPACE SPACE	1200 1500 7500 3380 2000 1000 1500 180 900 900 2829 516 500	10 1 36.1 16.2 9.6 4.8 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 4.8 7.5 13.6 4.2 104.5	BREA KER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/2 C C C C C C C C C C C C C	MC MC 1 MC MC MC MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 3-1/0-1-6G TRIM	RECEPTACLEGFIARC FLASHRECEPTACLEDISCONNECTLV THERMOSTATBATHROOMLV THERMOSTATBEDROOM1GFIGFIARC FLASHARC FLASHDISCONNECTDISCONNECTDISCONNECTARC FLASHDISCONNECTLV THERMOSTATBEDROOM1GFIARC FLASHARC FLASHALUMENCLOSURE
NUMBER           1           3           5           7           9           11           13           15           17           19           21           23           2           4           6           8           10           12           14           16           18           20           22           24           VOLTS           120/208           PHASE	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVING SPACE HEAT BEDROOM HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER RADIANT HEATING PANEL SPARE SPARE SPACE SPACE SPACE	1200 1500 7500 3380 2000 1250 1500 180 1080 900 2829 516 500	10 1 36.1 16.2 9.6 6 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 6 9 13.6 4.2	BREAKER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/2 3 20A/2 20A/1 20A/2 3 20A/2 20A/2 20A/2 20A/2 20A/2 20A/2 20A/2 20A/2 20A/2 20A/2 20A/2 20A/2 20A/1 2	MC MC 1 MC MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 3-1/0-1-6G TRIM	RECEPTACLE GFI ARC FLASH RECEPTACLE DISCONNECT LV THERMOSTAT BATHROOM LV THERMOSTAT BATHROOM1 GFI GFI GFI ARC FLASH DISCONNECT DISCONNECT DISCONNECT LV THERMOSTAT DISCONNECT ARC FLASH ARC FLASH DISCONNECT LV THERMOSTAT ENCLOSURE NEMA-1	NUMBER         1         3         5         7         9         11         13         15         17         19         21         23         2         4         6         8         10         12         14         16         18         20         22         24         VOLTS         120/208         PHASE	REFRIGERATOR KITCHEN COUNTER RECEPT KITCHEN-BATH LIGHTS RANGE -KITCHEN WATER HEATER UVING SPACE HEAT BEDROOM HEAT BEDROOM HEAT KITCHEN COUNTER RECEPT BATH RECEPT LIVING ROOM RECEPT BEDROOM-1 RECEPT HVAC CONDENSOR HVAC AIR HANDLER RADIANT HEATING PANEL SPARE SPARE SPACE SPACE SPACE SPACE	1200 1500 7500 3380 2000 1000 1500 180 900 900 2829 516 500	10 1 36.1 16.2 9.6 4.8 1.5 7.5 13.6 4.3	12.5 36.1 16.2 9.6 4.8 7.5 13.6 4.2 104.5	BREA KER 20A/1 20A/1 20A/1 45A/2 30A/2 20A/2 20A/2 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/1 20A/2 C C C C C C C C C C C C C	MC MC 1 MC MC MC MC MC MC MC MC MC MC MC	2-12/1-12G 2-12/1-12G 3-8/1-10G 2-10/1-10G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 2-12/1-12G 3-1/0-1-6G TRIM	RECEPTACLEGFIARC FLASHRECEPTACLEDISCONNECTLV THERMOSTATBATHROOMLV THERMOSTATBEDROOM1GFIGFIARC FLASHDISCONNECTDISCONNECTDISCONNECTLV THERMOSTATBEDROOM1GFIARC FLASHARC FLASHDISCONNECTLV THERMOSTATALUMENCLOSURENEMA-1

NOTE: THE ELECTRICAL CONTRACTOR SHALL KEEP A SET OF DRAWINGS WITH NEATLY DOCUMENTED AS BUILT CONDITIONS. THIS SET SHALL BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT. NOTE: THE ELECTRICAL CONTRACTOR SHALL FURNISH A TYPED, REVISED PANEL DIRECTORY IN ALL PANELS IN WHICH WORK IS PERFORMED. PERSONNEL'S NAMES SHALL NOT BE USED IN LOAD DESCRIPTIONS. AS PART OF CREATING THE PANEL DIRECTORIES, THE ELECTRICAL CONTRACTOR SHALL TRACE ALL CIRCUITS IN THE PANELS IN WHICH THEY DO ANY WORK.

ALL DOCUMENTS PREPARED BY DAVID BLACK ASSOCIATES, INC. ARE INSTRUMENTS OF SERVICE WITH RESPECT TO THIS PROJECT THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNERS, CONTRACTORS, OR OTHERS ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTION BY DAVID BLACK ASSOCIATES, INC WILL BE AT THE OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO DAVID BLACK ASSOCIATES, INC. THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS, DAVID BLACK ASSOCIATES, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM. David Black Associates, Inc. David Black Associates Engineers, Inc. 501 Lincoln Way East Chambersburg, PA 17201 (717) 267-0202 (717) 267-3646 Fax info@dba-ae.com  $\sim$ #  $\lesssim$  $\downarrow \# \triangleleft$ SHELTER NS – PHASE PENNSYLVANIA Ц С APARTMENT ALTERATIONS - P WAYNESBORO, PENNSY TITO REGISTERED, PROFESSIONAL JOHN H. GRIFFITH ENGINEER 023163-**REVISION DATE** ISSUE DATE MAY 4, 2016 DRAWING TITLE PANEL SCHEDULES PROJECT NO. 14AE035 SHEET NUMBER

E1.2

John H. Griffith Consulting Engineer <sup>213</sup> S. Hanover Street, Carlisle, PA 17013 717 - 243 - 4541

CONSULTANT:

## SERVICE PANEL SCHEDULE

								PANEL	MDP
THREE									
PHASE									
120/208						STANDARD		SURFA CE	NEMA-1
	42,000 AIC					GROUND	ONE LINE	TRIM	ENCLOSURE
OLTS	1000 AMP MAIN LUGS ONLY					FEEDER	- REFE	R TO ONE LI	NE
	DEMAND ADJUSTED	290457	805.7	806.6	809.9				
					88				
6				88				1-2 GRD AL	BREAKER
	ELEVATOR - 30HP	<mark>31703</mark>	88			250A/3	3	4-350MCM AL	SHUNT TRIP
					261.7				
5	PANEL AP-03			261.7				2-1 GRD	ALUM
	APARTMENTS 3RD FLR	94220	261.7		01.0	400A/3	2-3	8-250MCM	ALUM
4				0.80	61.9				
4	HOUSE PANEL-HP-00	17908	<mark>58.3</mark>	58.8		IJUA/J	2	4-3/0 1-4 GRD	ALUM ALUM
		47000	50.0		340.4	150A/3		1.0/0	
3	PANEL AP-02			340.4				2-2/0 GRD	ALUM
	APARTMENTS 2ND FLR	122626	340.4			600A/3	2-4	8-500MCM	ALUM
	SPACE								
	SPACE								
	PANEL		57.7					1-6 CU GRD	
2	EXISTING FIRST FLOOR	12000			57.7	125A/2	3	3-2/0 AL	NOTE-02
	PANEL S			57.7			-	1-6 CU GRD	
1	EXISTING GROUND FLOOR	12000	57.7			125A/2	3	3-2/0 AL	NOTE-01
CIRCUIT NUMBER	DESCRIPTION	LOAD	A	В	С	CIRCIUT BREAKER	CONDUIT	WIRE	NOTES

NOTES

1 ELECTRICAL CONTRACTOR TO FIELD SURVEY THE EXISTING ELECTRICAL SERVING THE BASEMENT LEVEL AND RECONNECT TO THE NEW SERVICE PANEL

2 ELECTRICAL CONTRACTOR TO FIELD SURVEY THE EXISTING ELECTRICAL SERVING THE FIRST FLOOR AND RECONNECT TO THE NEW SERVICE PANEL

3 ELECTRICAL CONTRACTOR TO FIELD SURVEY THE EXISTING ELECTRIC SERVICE SERVING THE BUILDING. DEMO AND REMOVE WORK MADE OBSOLETE.CONNECT TO EXISTING SERVICE. VERIFY THE AVAILABLE FAULT CURRENT WITH THE UTILITY AND SELECT EQUIPMENT ACCORDINGLY. 4 UTILITY CHARGES SHALL BE PAID BY OWNER.

CIRCUIT NUMBER	DESCRIPTION	LOAD	A	В	С	CIRCIUT BREAKER	CONDUIT	WIRE	NOTES
1	SPARE					100A/3			
3									
5									
7	ELEVATOR PACKAGE LTG	300	2.5			20A/1	3/4	2#12-1#12G	
9	ELEVATOR SUMP PUMP	300		2.5		20A/1	3/4	2-#12-1#12G	
11	ELEVATOR RECEPTACLES	540			4.5	20A/1	3/4	2-#12-1#12G	
13	ELEVATOR FAN	300	2.5			20A/1	3/4	2-#12-1#12G	
15	ELEVATOR LIGHTS [4]K[1]K	700		5.8		20A/1 HL	3/4	2-#12-1#12G	bkr lock
17	STAIR 1 RECEPTACLES	720			6	20A/1	3/4	2-#12-1#12G	
19	STAIR 1 LIGHTS [8]K[1]J	374	3.2			20A/1	3/4	2-#12-1#12G	
21	STAIR1 HEATER	4000		19.2		30A/2	3/4	3#10-1#12G	
23	ENTRY-FIRST FLOOR				19.2				
25	STAIR 1 HEATER	4000	19.2			30A/2	3/4	3#10-1#12G	
27	SECOND FLOOR			19.2					
29	SPACE								
2	ELECT ROOM 112 LIGHTS[2]G	100	0.9			20A/1	3/4	2-#12-1#12G	
4	STAIR 2 LIGHTS[8]K [4]J	474		4		20A/1	3/4	2-#12-1#12G	
6	STAIR 2 RECEPTACLE	900			7.5	20A/1	3/4	2-#12-1#12G	
8	SPACE								
10									
12	LOBBY101 LIGHTS[1]G[1]J	80			0.7	20A/1	3/4	2-#12-1#12G	
14	ELECT ROOM112RECEPT	720	6			20A/1	3/4	2-#12-1#12G	
16	BUILDING EXHAUST FAN			4.8		20A/3	3/4	4#12-1#12g	
18					4.8				
20			4.8						
22	FIRE ALARM-SECURITY	400		3.3		20A/1 HL	3/4	2-#12-1#12G	bkr lock
24	STAIR 2 HEATER	4000			19.2	30A/2	3/4	3#10-1#12G	
26	ENTRY-BASEMENT		19.2						
28									
30									~
	TOTAL	17908	58.3	58.8	61.9				
VOLTS	MAIN LUG					150A/3	2	4-3/0-1-#4G	ALUM WIRE
	10,000 AIC					GROUND	BUSS	TRIM	ENCLOSUR
120/208						STANDARD	AL	SURFACE	NEMA-1
PHASE									
THREE									
								PANEL	HP-00

CIRCUIT NUMBER	DESCRIPTION	LOAD	A	В	С	CIRCIUT BREAKER	CONDUIT	WIRE	NOTES
1	201-1	<mark>1661</mark> 5	<mark>79.9</mark>			125A/2	2	3-2/0-1-6G	ALUM
3	PANEL-AI			79.9					
5									
7	202-S	16565				125A/2	2	3-2/0 /1-6G	ALUM WIRE
9	PANEL-AF			79.6					
11					79.6				
13	203-1	16943				125A/2	2	3-2/0 /1-6G	ALUM WIRE
15	PANE-AG		81.5						
17					81.5				
19	204-1	17764	85.4			125A/2	2	3-2/0 /1-6G	ALUM WIRE
21	PANELAB			85.4					
23									
25	SPACE								
27									
29									
2	205-1	17764	85.4			125A/2	2	3-2/0 /1-6G	ALUM WIRE
4	PANEL AB			85.4					
6									
8	206-2	18963				125A/2	2	3-2/0 /1-6G	ALUM WIRE
10	PANEL-AA			91.2					
12					91.2				
14	207-2	18963	91.2			125A/2	2	3-2/0 /1-6G	ALUM WIRE
16	PANEL-AA								
18					91.2				
20	HP-02	34614	96.1			150A/3	2	4-3/0 /1-6G	ALUM WIRE
22	HOUSE PANEL SECOND FLOO	R		96.1					
24					96.1				
26	SPACE								
28									
30									
	TOTAL	158191	519.5	<b>517.6</b>	439.6				
							2-4	8-500MCM	ALUM
OLTS	MAIN LUGS ONLY					600A/3		2-2/0 GRD-CU	
	22,000 AIC					GROUND	BUSS	TRIM	ENCLOSURE
120/208						STANDARD	CU	SURFACE	NEMA-1
HASE							AL		
HREE									
								PANEL	AP-02

CIRCUIT NUMBER	DESCRIPTION	LOAD	Α	В	С	CIRCIUT BREAKER	CONDUIT	WIRE	NOTES
1	CORRIDOR 214 LIGHTS[6]H-[5]	<mark>550</mark>	<mark>4.6</mark>			20A/1	MC	2#12-1#12G	
3	CORRIDOR 214 RECEPTACLES	1260		10.5		20A/1	MC	2#12-1#12G	
5	SPACE								
7	CORRIDOR 214 HEAT	1800	15			20A/1	MC	2#12-1#12G	
9	LOBBY 208 HEAT	1800		15		20A/1	MC	2#12-1#12G	
11	LAUNDRY 209-MAINT 210 REC	1080			9	20A/1	MC	2#12-1#12G	
13	LAUNDRY 209 HEAT	1500	12.5			20A/1	MC	2#12-1#12G	
15	MAINTENANCE 210 HEAT	1000		4.2		20A/2	MC	3#12-1#12G	
17					4.2				
19	LAUN209-MAIN210 LIGHTS[2]H-[1]G	150	1.3			20A/1	MC	2#12-1#12G	
21	SPACE								
23	SPACE								
25	SPACE								
27	AC-208			13.6		20A/2			
29					13.6				
2	RM 209 WASHER#1	1500	12.5			20A/1	MC	2#12-1#12G	
4	RM 209 WASHER#2	1500		12.5		20A/1	MC	2#12-1#12G	
6	RM 209 WASHER#3	1500			12.5	20A/1	MC	2#12-1#12G	
8	RM 209 WASHER#4	1500	12.5			20A/1	MC	2#12-1#12G	
10	RM209 DRYER#1	6000		28.8		35A/2	3/4	3#10-1#12G	
12				20.0	28.8				
14	RM209 DRYER#2	6000	28.8			35A/2	3/4	3#10-1#12G	
16		0000	20.0	28.8			3/4		
18	RM209 DRYER#3	6000		20.0	28.8	35A/2	3/4	3#10-1#12G	
20		0000	28.8		20.0				
22	SPACE		20.0						
24									
26	SPACE								
20	SPACE								
28 30	SPACE								
50	TOTAL	33140	116	113.4	96.9				
VOLTS	MAIN LUG	33140	110	113.4	90.9	225A/3	2	4-3/0-1-4G	ALUM WIRE
	22,000 AIC					GROUND	BUSS	TRIM	
120/208						STANDARD	AL	SURFACE	NEMA-1
PHASE									
THREE									
								PANEL	HP-02

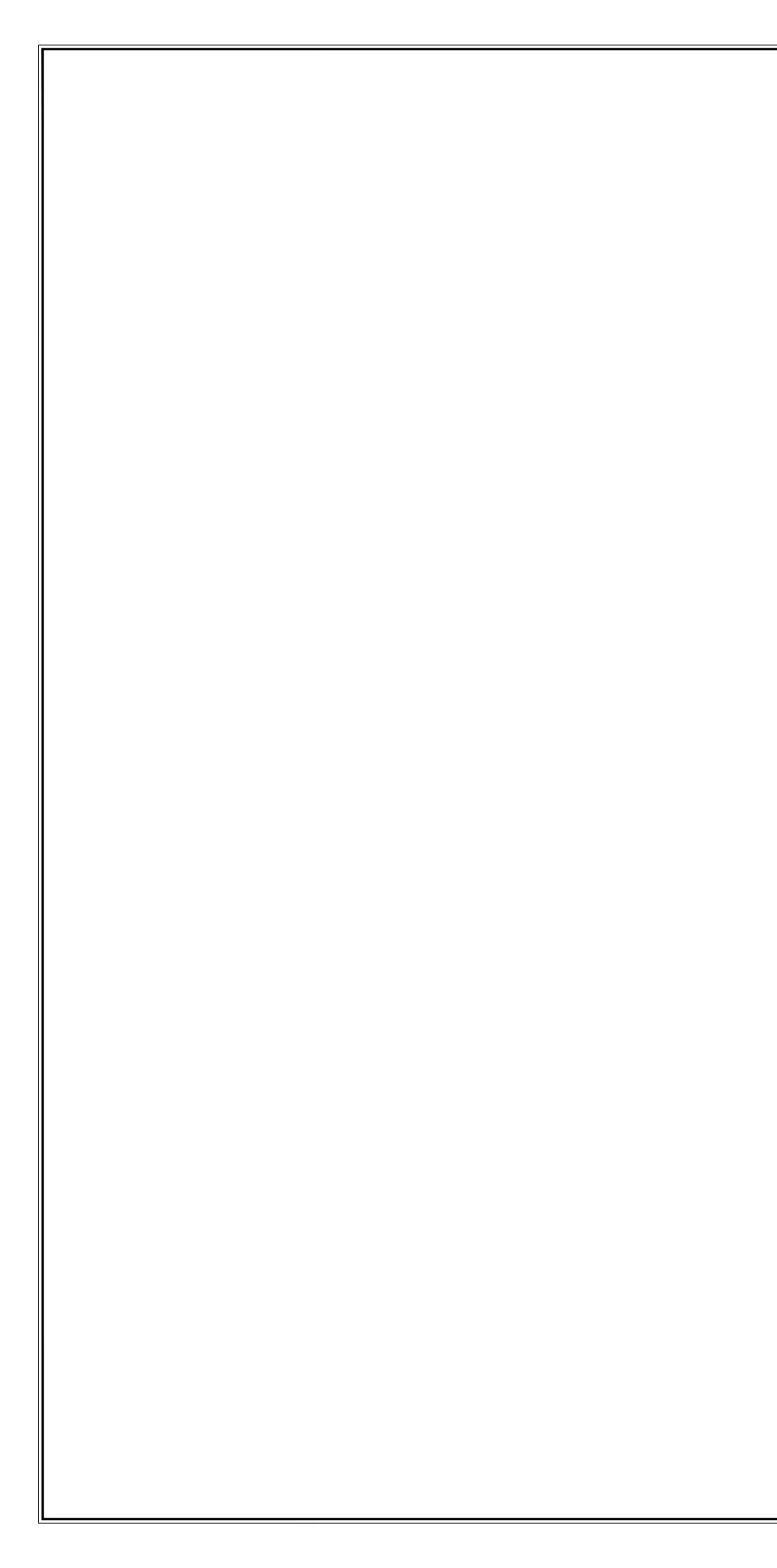
								1	
CIRCUIT	DESCRIPTION	LOAD	Α	В	С	CIRCIUT BREAKER	CONDUIT	WIRE	NOTES
1	301	18098	104			125A/2	2	3-2/0-1-6G	ALUM
3	PANEL-AH			<mark>95.4</mark>					
5									
7	302	16565				125A/2	2	3-2/0 /1-6G	ALUM WIRE
9	PANEL-AF			96.8					
11					94.9				
13	303	18035				125A/2	2	3-2/0 /1-6G	ALUM WIRE
15	PANEL-AC		102.7						
17					94.1				
19	304	<mark>1841</mark> 9	115.5			125A/2	2	3-2/0 /1-6G	ALUM WIRE
21	PANEL AD			106.9					
23									
25	SPACE								
27									
29									
2	305	18963				125A/2	2	3-2/0 /1-6G	ALUM WIRE
4	PANEL AA			123.9					
6					1 <mark>2</mark> 2				
8	306	18963	123.9			125A/2	2	3-2/0 /1-6G	ALUM WIRE
10	PANEL-AA								
12					122				
14									
16									
18									
20	HP-03	18944	61.2			100A/3	2	4-1/0 /1-6G	ALUM WIRE
22	HOUSE PANEL THIRD FLOOR			<mark>55.</mark> 7					
24					50.1				
26	SPACE								
28									
30									
	TOTAL	127987	507.3	478.7	483.1				
		12/00/	007.0	11 0.1	100.1		2-3	8-250MCM	ALUM
VOLTS	MAIN LUGS ONLY					400A/3		2-2/0 GRD-CU	
	22,000 AIC					GROUND	BUSS	TRIM	ENCLOSURE
120/208						STANDARD	cu	SURFACE	NEMA-1
PHASE							AL		
THREE									
								PANEL	AP-03

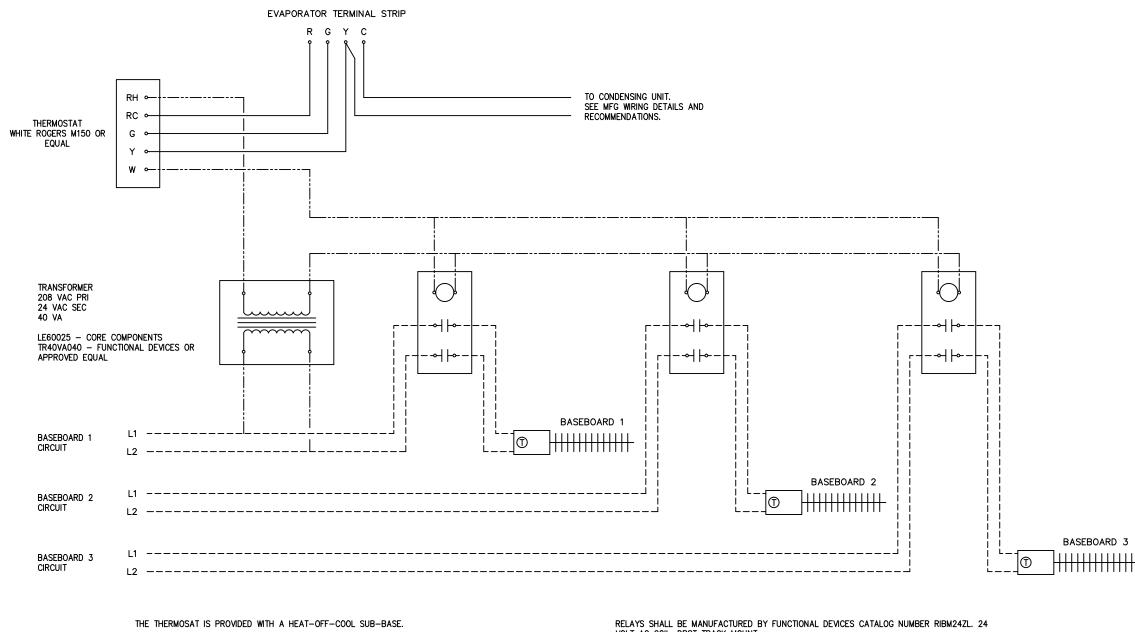
CIRCUIT NUMBER	DESCRIPTION	LOAD	A	В	С	CIRCUIT BREAKER	CONDUIT	WIRE	NOTES
1	CORRIDOR 315 LIGHTS (6)H-(5)HE	506	4.3			20A/1	MC	2#12 -1#12G	
3	CORRIDOR 315 RECEPTACLES	1260		10.5		20A/1	MC	2#12 -1#12G	
5	SPACE								
7	REST RM 312-STOR 313 LTS (2)H	92	0.8			20A/1	MC	2#12 -1#12G	
9	LOBBY 307 HEAT	1800		15.0		20A/1	MC	2#12 -1#12G	
11	CORRIDOR 315 HEAT	1800			15.0	20A/1	MC	2#12 -1#12G	
13	OFFICE 310 HEAT	2000	9.6			20A/2	MC	3#12 -1#12G	
15				9.6					
17	OFFICE 311 HEAT	1000			4.8	20A/2	MC	3#12 -1#12G	
19			4.8						
21	ROOF RECEPTACLES	900		7.5		20A/1	MC	2#12 -1#12G	SEALTIGHT OUTDOORS
23	EF-2	696			5.8	20A/1	MC	2#12 -1#12G	PRESSURE SWITCH
25	EF-3	696	5.8			20A/1	MC	2#12 -1#12G	PRESSURE SWITCH
27	AC-310	2080		10.0		20A/2	MC	3#12 -1#12G	SEALTIGHT OUTDOORS
29					10.0				
31	SPACE								
33	SPACE								
35	SPACE								
37	SPACE								
39	SPACE								
39	SPACE								
2	OFFICE 310, 311 LIGHTS (5)A	215	1.8			20/1	MC	2#12 -1#12G	
4	CONFERENCE 308 LIGHTS (5)A	215		1.8		20/1	MC	2#12 -1#12G	
6	OFFICE 310 RECEPTACLES	1080			6.0	20/1	MC	2#12 -1#12G	
8	OFFICE 311 RECEPTACLES	1080	6.0			20/1	MC	2#12 -1#12G	
10	STORAGE 313 RECEPTACLES	180		3.4		20/1	MC	2#12 -1#12G	
12	CONFERENCE 308 RECEPTACLES	1080			11.7	20/1	MC	2#12 -1#12G	
14	CONFERENCE 308 RECEPTACLES	1260	11.7			20/1	MC	2#12 -1#12G	
16	LOBBY 307 WATER COOLER	696		5.8		20/1	MC	2#12 -1#12G	
18	CONFERENCE 308 HEAT	2000			9.6	20A/2	MC	3#12 -1#12G	
20			9.6						
22	CONFERENCE 308 CU	2000		9.6		20A/2	MC	3#12 -1#12G	
24			(0.0		9.6				
26	AC 311	2892	13.6	40.0		20A/2	MC	2#12 -1#12G	SEALTIGHT OUTDOORS
28	40.207	0000		13.6	40.0	00 \ /0		0//40 4//400	
30	AC 307	2892	40.0		13.6	20A/2	MC	2#12 -1#12G	SEALTIGHT OUTDOORS
32	00405		13.6						
34	SPACE								
36	SPACE								
38	SPACE								
40	SPACE								
42	SPACE TOTAL	28420	81.6	86.8	86.1				
VOLTS	MAIN LUG	20420	01.0	00.0	00.1	100A/3	2	4-1/0 -1#6G	ALUM WIRE
120/208	10,000 AIC					GROUND	BUSS	TRIM	ENCLOSURE
VOLTS	10,000 AIC					STANDARD	AL	SURFACE	NEMA-1
THREE							/\L	JUNI AUE	
TINEL								PANEL	HP-03

NOTE: THE ELECTRICAL CONTRACTOR SHALL KEEP A SET OF DRAWING WITH NEATLY DOCUMENTED AS BUILT CONDITIONS. THIS SET SHALL BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT. ALL DOCUMENTS PREPARED BY DAVID BLACK ASSOCIATES, INC. NOTE: THE ELECTRICAL CONTRACTOR SHALL FURNISH A TYPED, REVISED PANEL DIRECTORY IN ALL PANELS IN WHICH WORK IS PERFORMED. PERSONNEL'S NAMES SHALL NOT BE USED IN LOAD DESCRIPTIONS. AS PART OF CREATING THE PANEL DIRECTORIES, THE ARE INSTRUMENTS OF SERVICE WITH RESPECT TO THIS PROJECT THEY ARE NOT INTENDED OR ELECTRICAL CONTRACTOR SHALL TRACE ALL CIRCUITS IN THE PANELS IN WHICH THEY DO ANY WORK. REPRESENTED TO BE SUITABLE FOR REUSE BY OWNERS, CONTRACTORS, OR OTHERS ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTION BY DAVID BLACK ASSOCIATES, INC WILL BE AT THE OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO DAVID BLACK ASSOCIATES, INC. THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS, DAVID BLACK ASSOCIATES, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM. David Black Associates, Inc. David Black Associates Engineers, Inc. 501 Lincoln Way East Chambersburg, PA 17201 **(717) 267-0202** (717) 267-3646 Fax info@dba-ae.com  $\sim$ # 1 ALL LOADS OUTDOORS SHALL  $\approx$ HAVE UV RESISTANT SEALTITE.  $\tilde{} = \langle$ SHELTER Z [] $\triangleleft$ PHA: SYLV,  $\bigcirc$ HOPE PENN  $\bigcirc$  $\geq$ WAYNESBORO NEW MENT ALTERATION WAYNESBORO, APARTMENT TIT -REGISTERED PROFESSIONAL JOHN H. GRIFFITH ENGINEER 023163-E 05/04 **REVISION DATE** ISSUE DATE MAY 4, 2016 DRAWING TITLE PANEL SCHEDULES PROJECT NO. 14AE035 John H. Griffith Consulting Engineer <sup>213</sup> S. Hanover Street, Carlisle, PA 17013 717 - 243 - 4541 SHEET NUMBER E1.3

NOTE

CONSULTANT:





COOL: WHEN THE SUB-BASE IS INDEXED TO COOL, THE THERMOSTAT CYCLES THE EVAPORATOR UNIT FAN AND REMOTE CONDENSING UNIT TO MAINTAIN THE COOLING SPACE TEMPERATURE SETPOINT. THE HEAT IS DISABLED FROM THE THERMOSTAT. HEATING: WHEN THE SUB-BASE IS IN THE HEAT POSITION, THE EVAPORATOR AND CONDENSING UNIT ARE DISABLED. WHEN THE SPACE TEMPERATURE FALL BELOW THE HEATING SETPOINT, THE RELAYS ARE ENERGIZED ALLOWING THE ELECTRIC BASEBOARD HEAT TO OPERATE FROM THE INTEGRAL THERMOSTAT.

OFF: WHEN THE SUB-BASE IS SWITCHED TO THE OFF POSITION, HEATING AND COOLING ARE DISABLED.

WITH NEATLY DOCUMENTED AS BUILT CONDITIONS. THIS SET SHALL BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT. NOTE: THE ELECTRICAL CONTRACTOR SHALL FURNISH A TYPED, REVISED PANEL DIRECTORY IN ALL PANELS IN WHICH WORK IS PERFORMED. PERSONNEL'S NAMES SHALL NOT BE USED IN LOAD DESCRIPTIONS. AS PART OF CREATING THE PANEL DIRECTORIES, THE ELECTRICAL CONTRACTOR SHALL TRACE ALL CIRCUITS IN THE PANELS IN WHICH THEY DO ANY WORK.

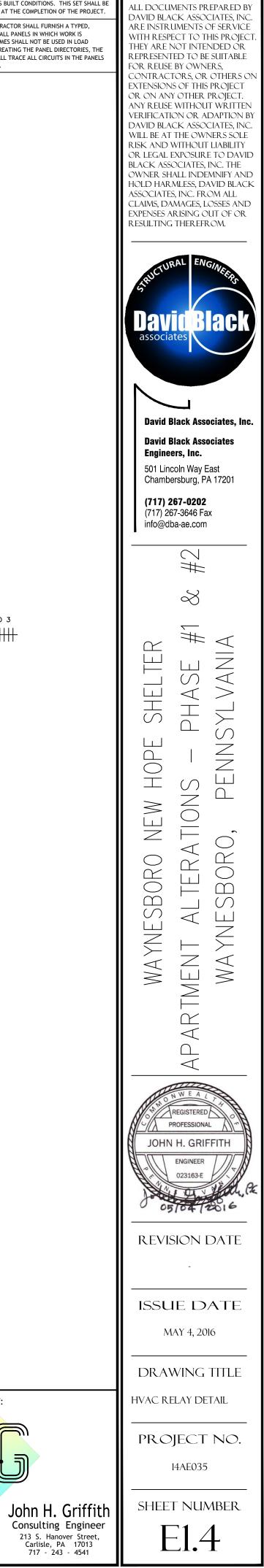
CONSULTANT:

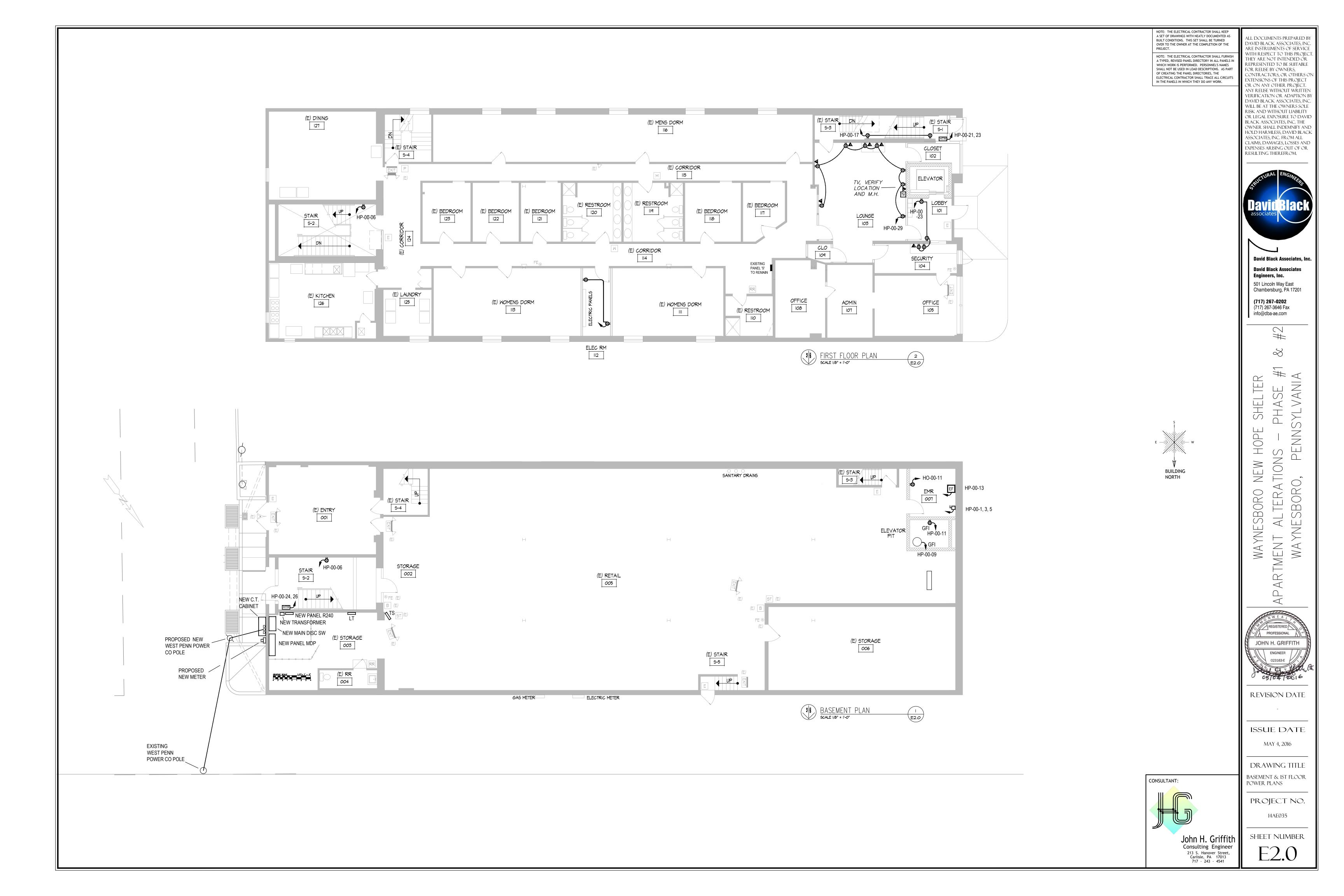
NOTE: THE ELECTRICAL CONTRACTOR SHALL KEEP A SET OF DRAWING

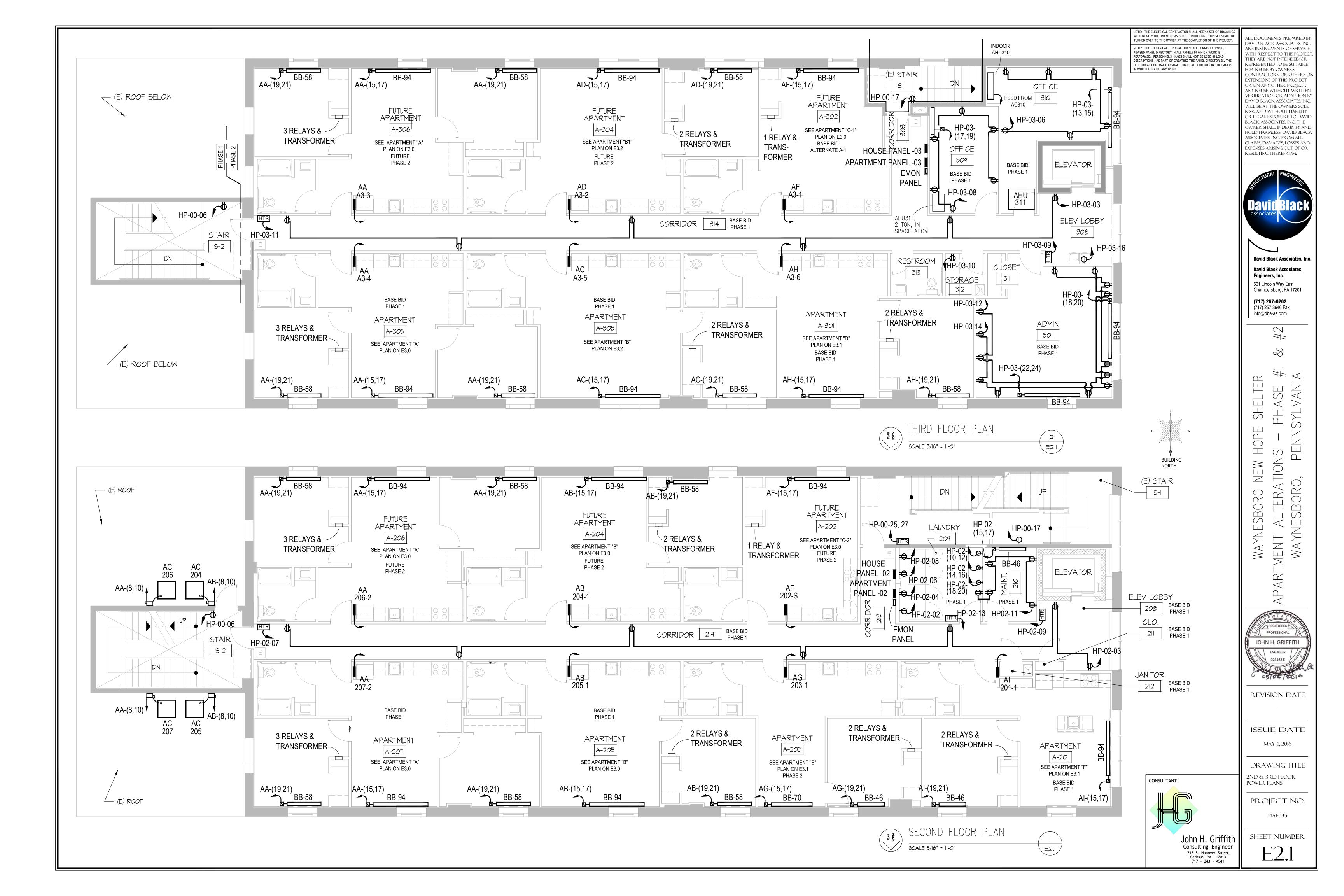
# <u>Three Remote Relays</u>

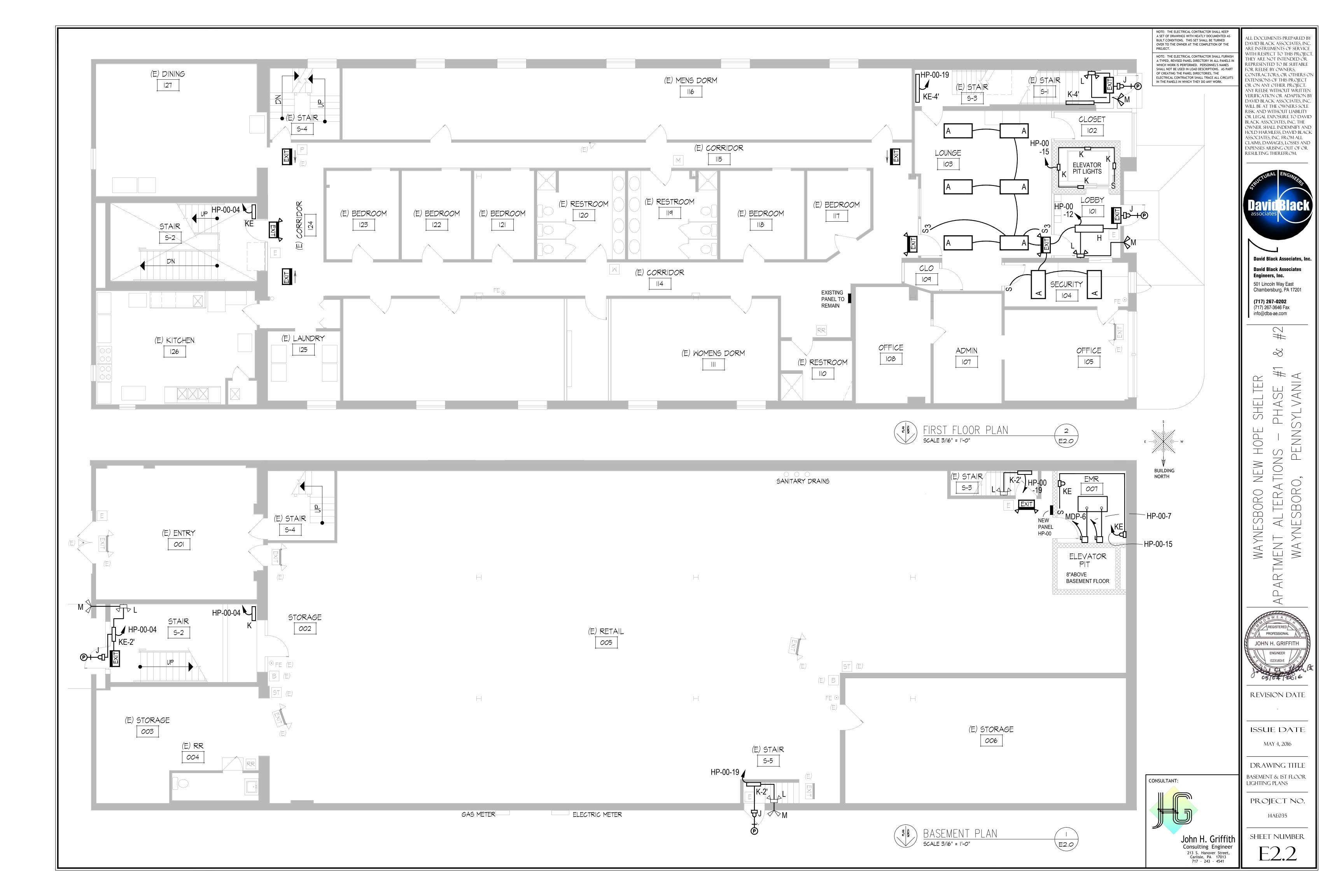
RELAYS SHALL BE MANUFACTURED BY FUNCTIONAL DEVICES CATALOG NUMBER RIBM24ZL. 24 VOLT AC COIL. DPST TRACK MOUNT. MOUNT IN 12" x 12" x 6" BOX. BOX LOCATED IN WING WALL.

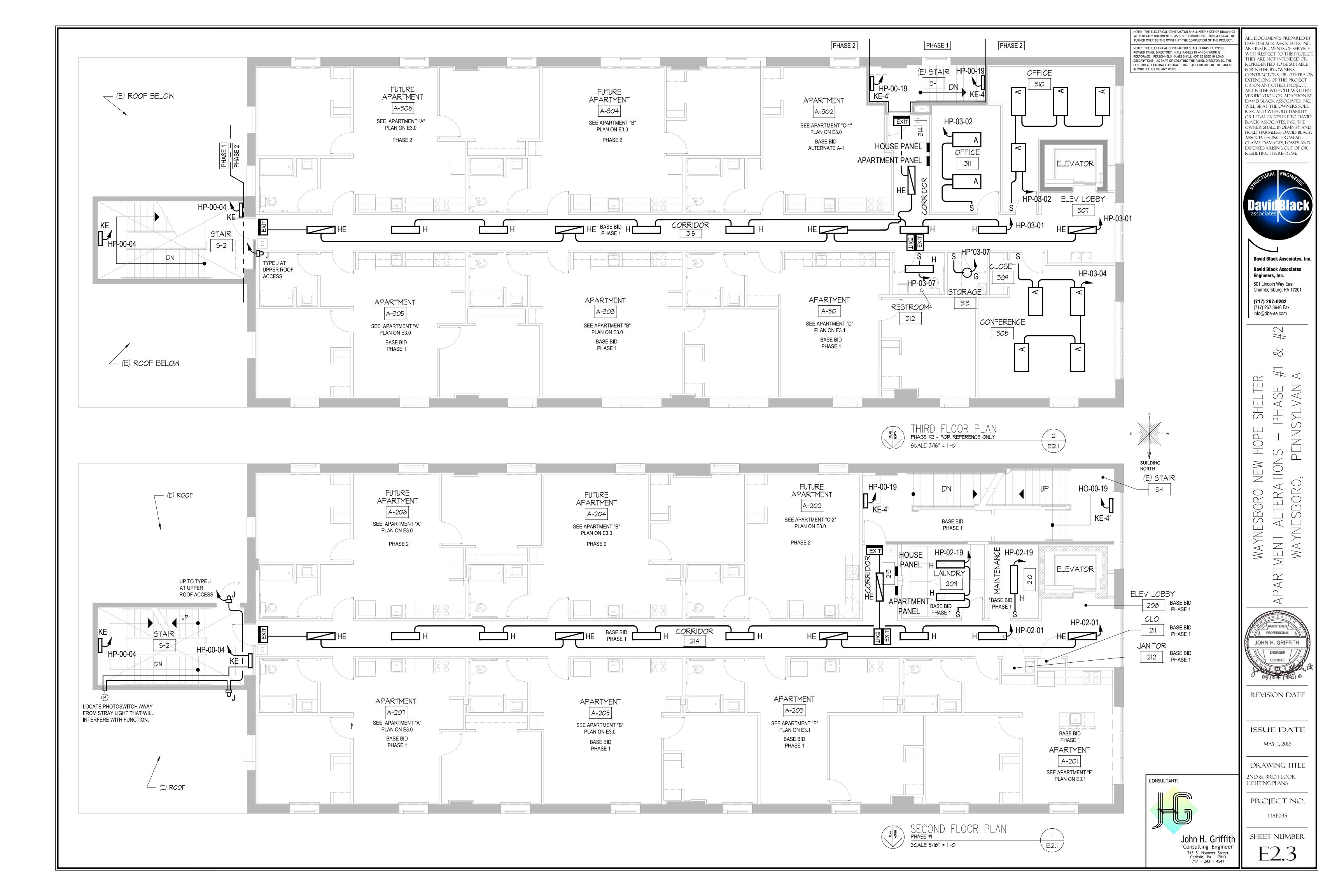
24 VOLT WIRING SHALL BE BY THE HVAC CONTRACTOR. 208 VOLT WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR. TRANSFORMER, RELAYS, AND BOX SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.

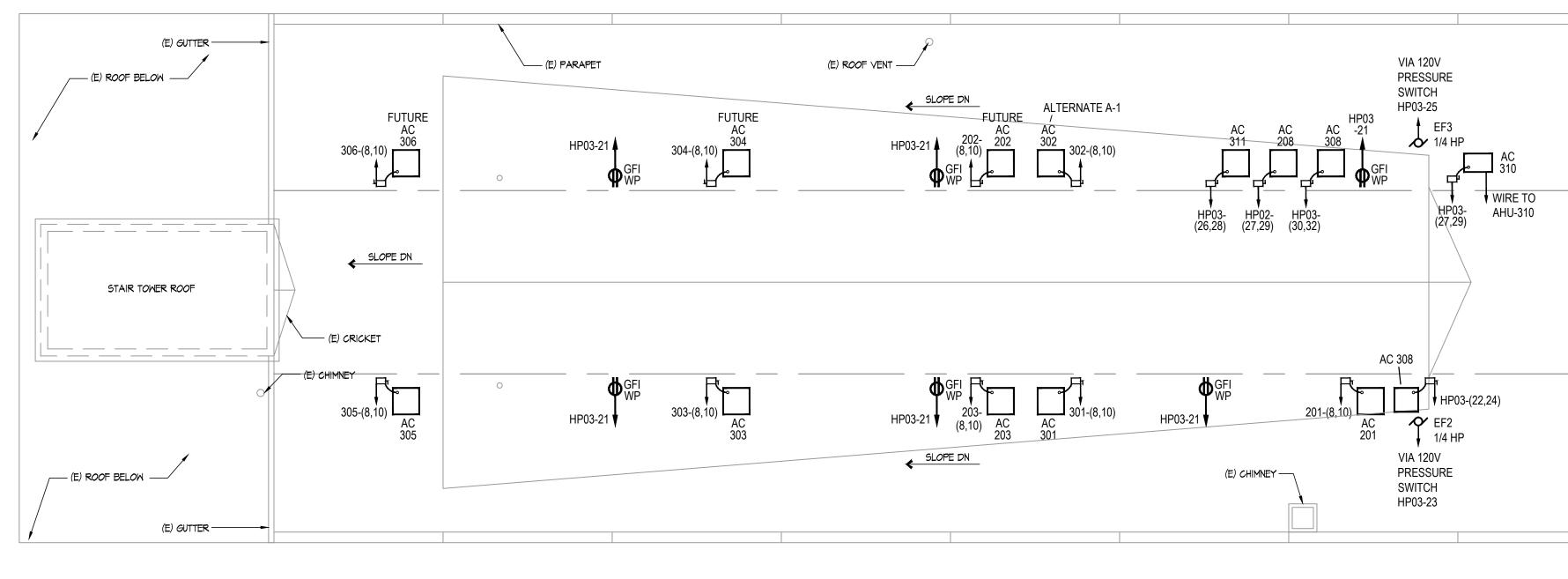






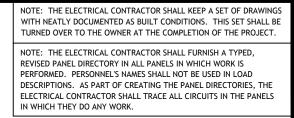




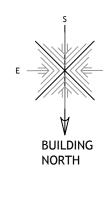


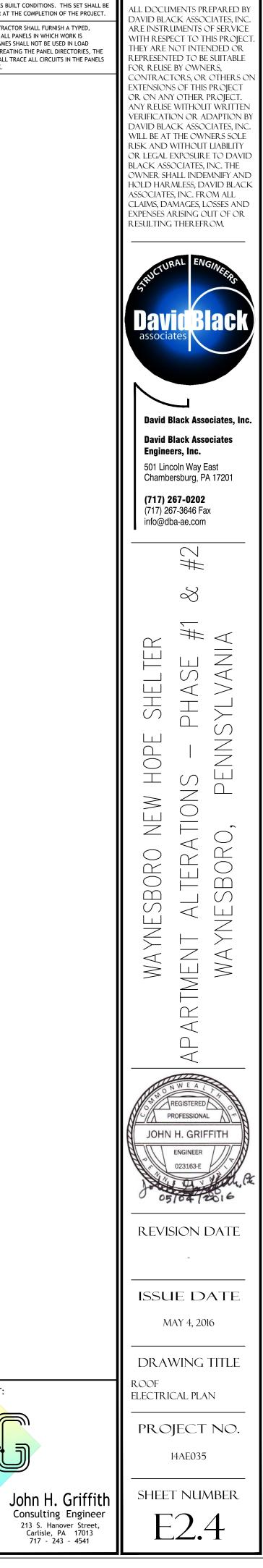
ROOF PLAN scale 1/8" = 1'-0"

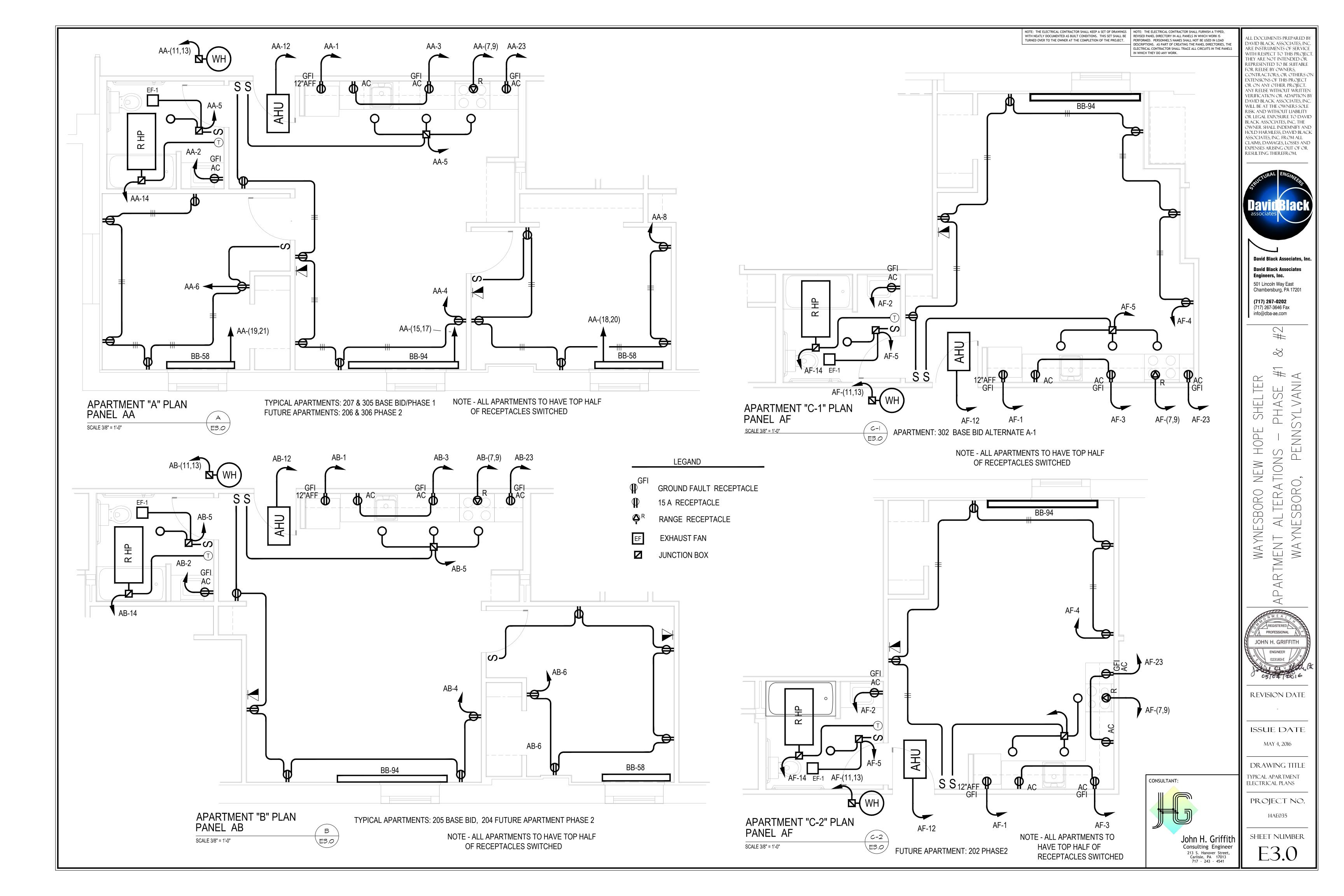
VERIFY LOCATION OF AC UNITS WITH MECHANICAL CONTRACTOR.

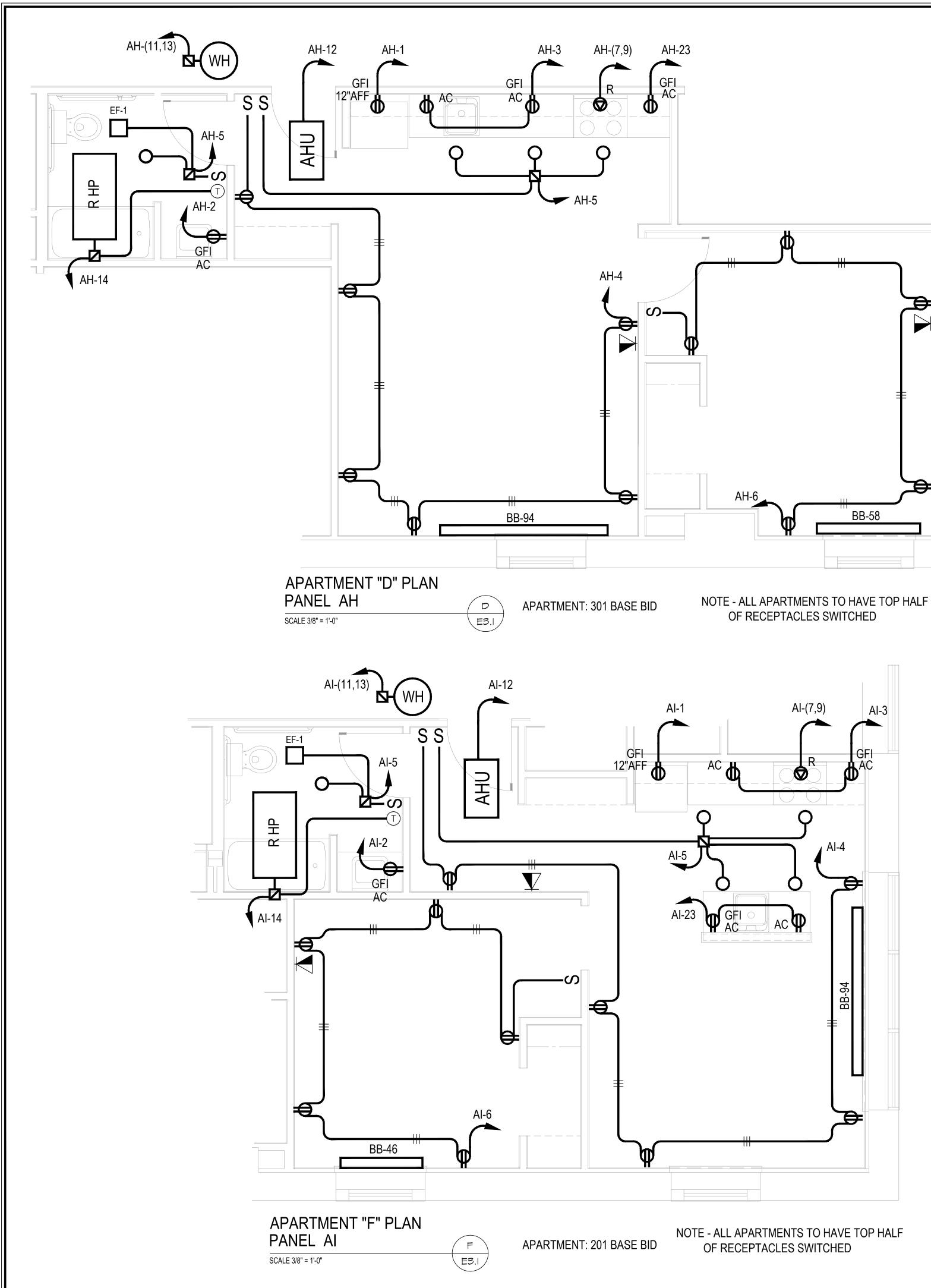


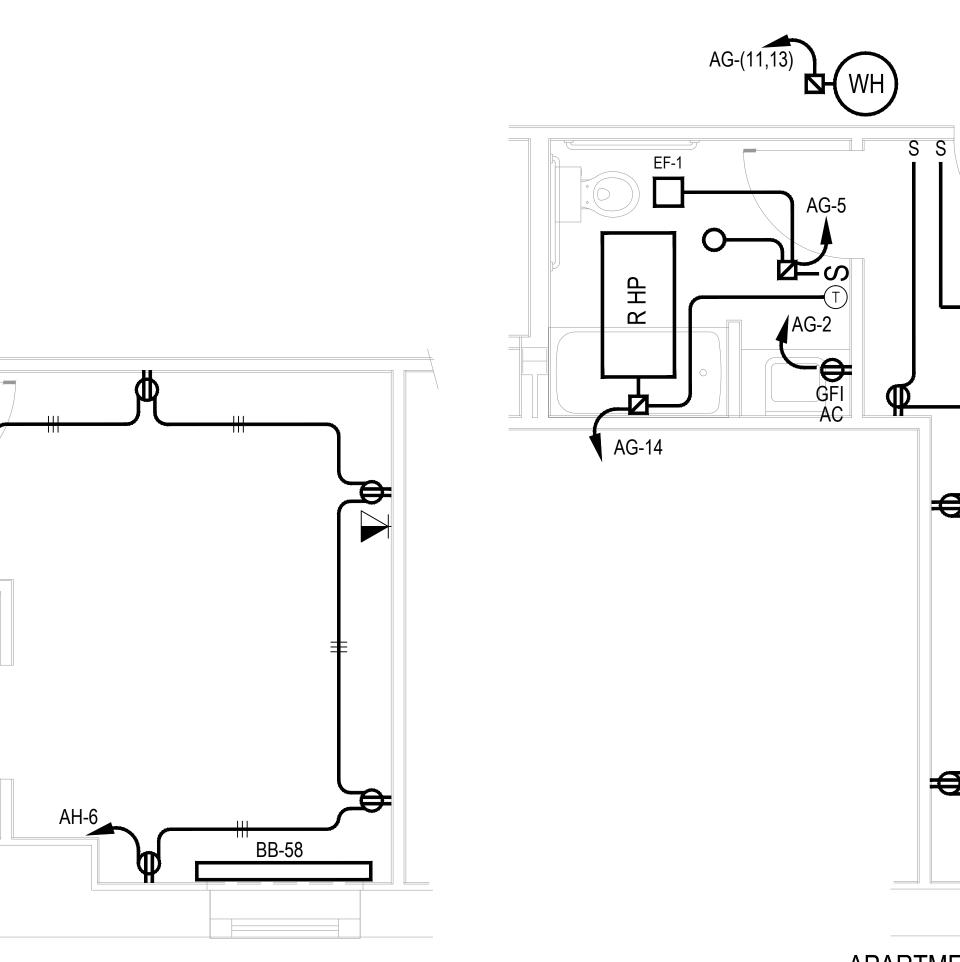
CONSULTANT:











NOTE - ALL APARTMENTS TO HAVE TOP HALF

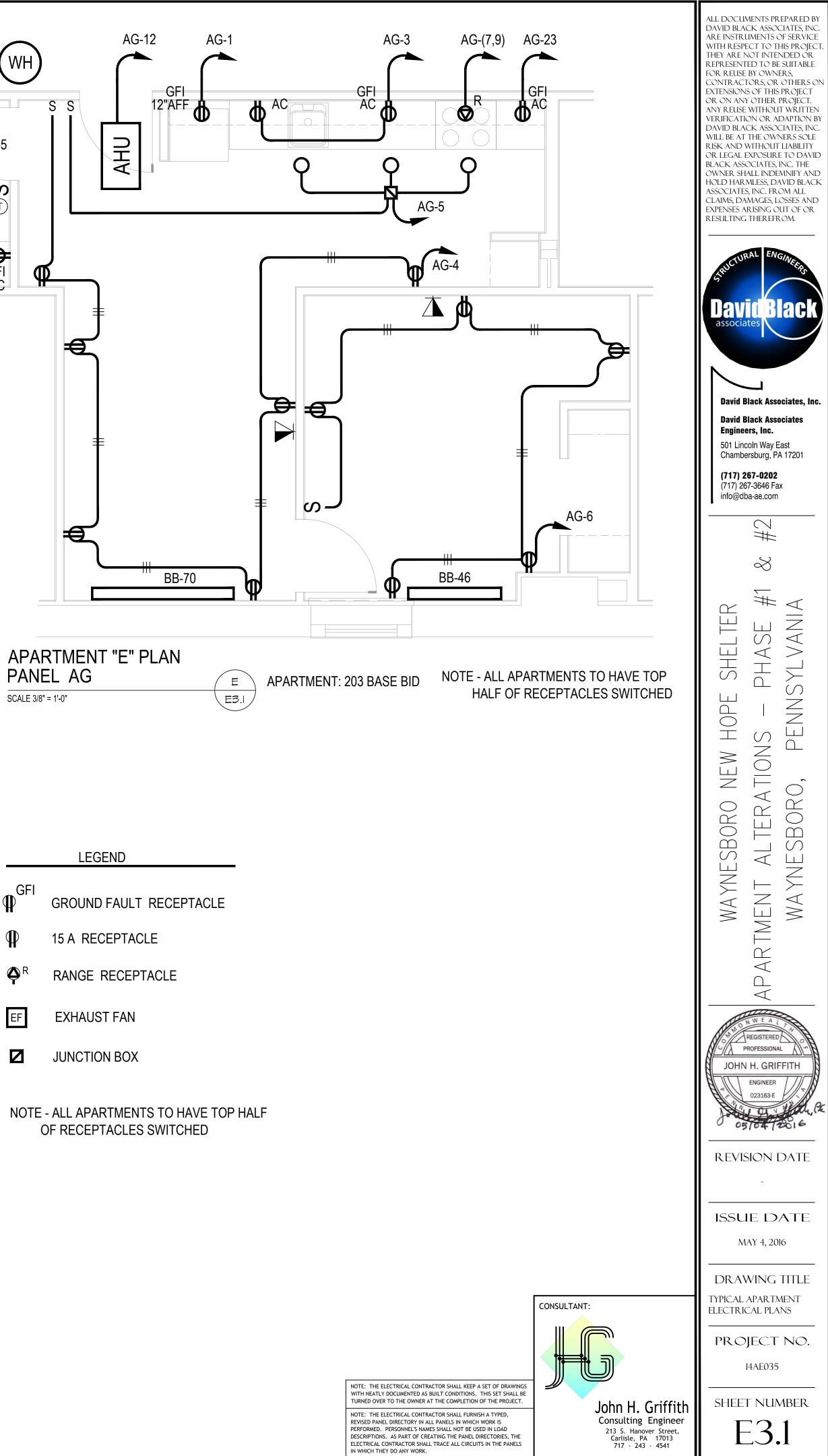
LEGEND GROUND FAULT RECEPTACLE 15 A RECEPTACLE **⊘**<sup>R</sup> RANGE RECEPTACLE EF EXHAUST FAN  $\mathbf{Z}$ JUNCTION BOX

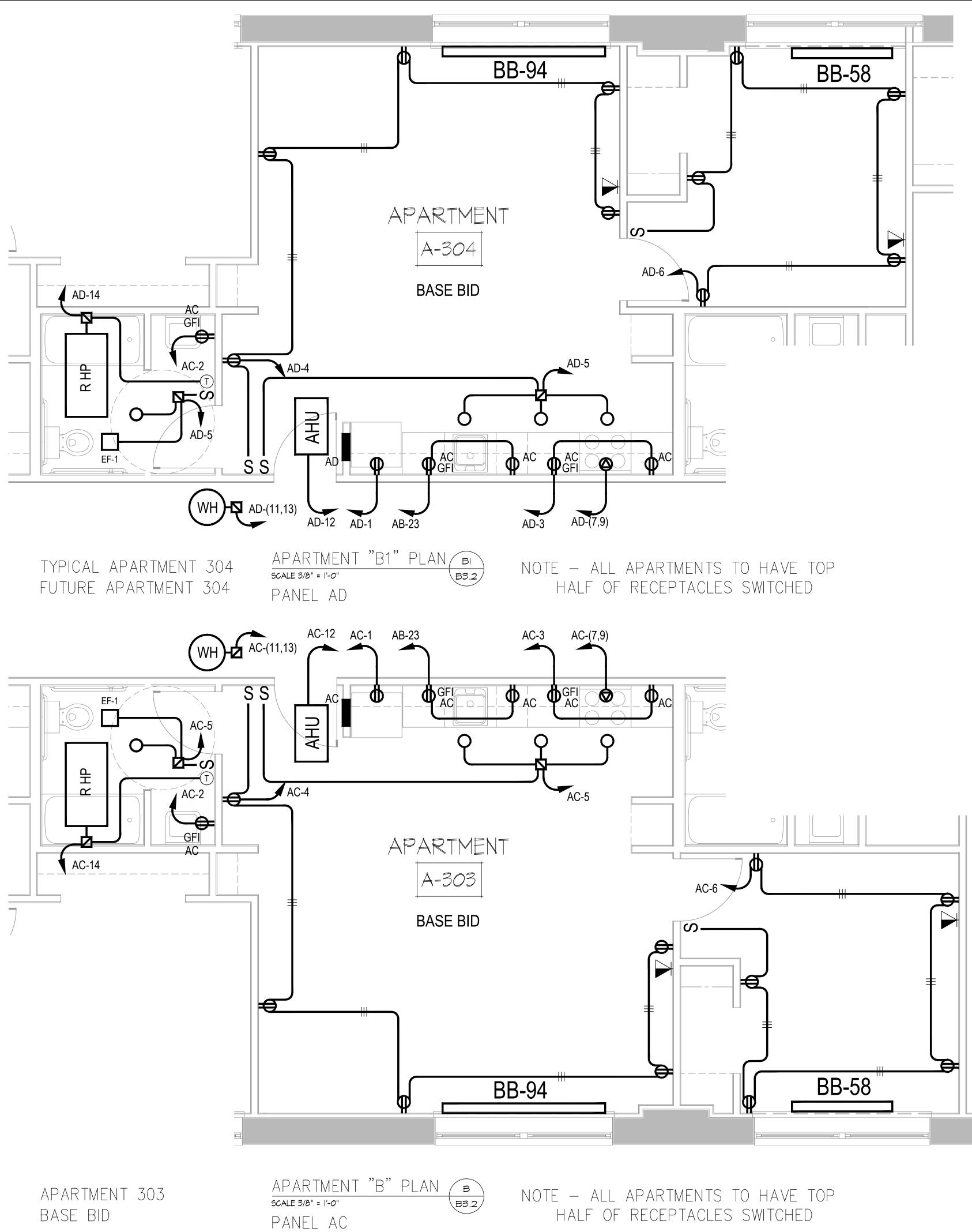
SCALE 3/8" = 1'-0"

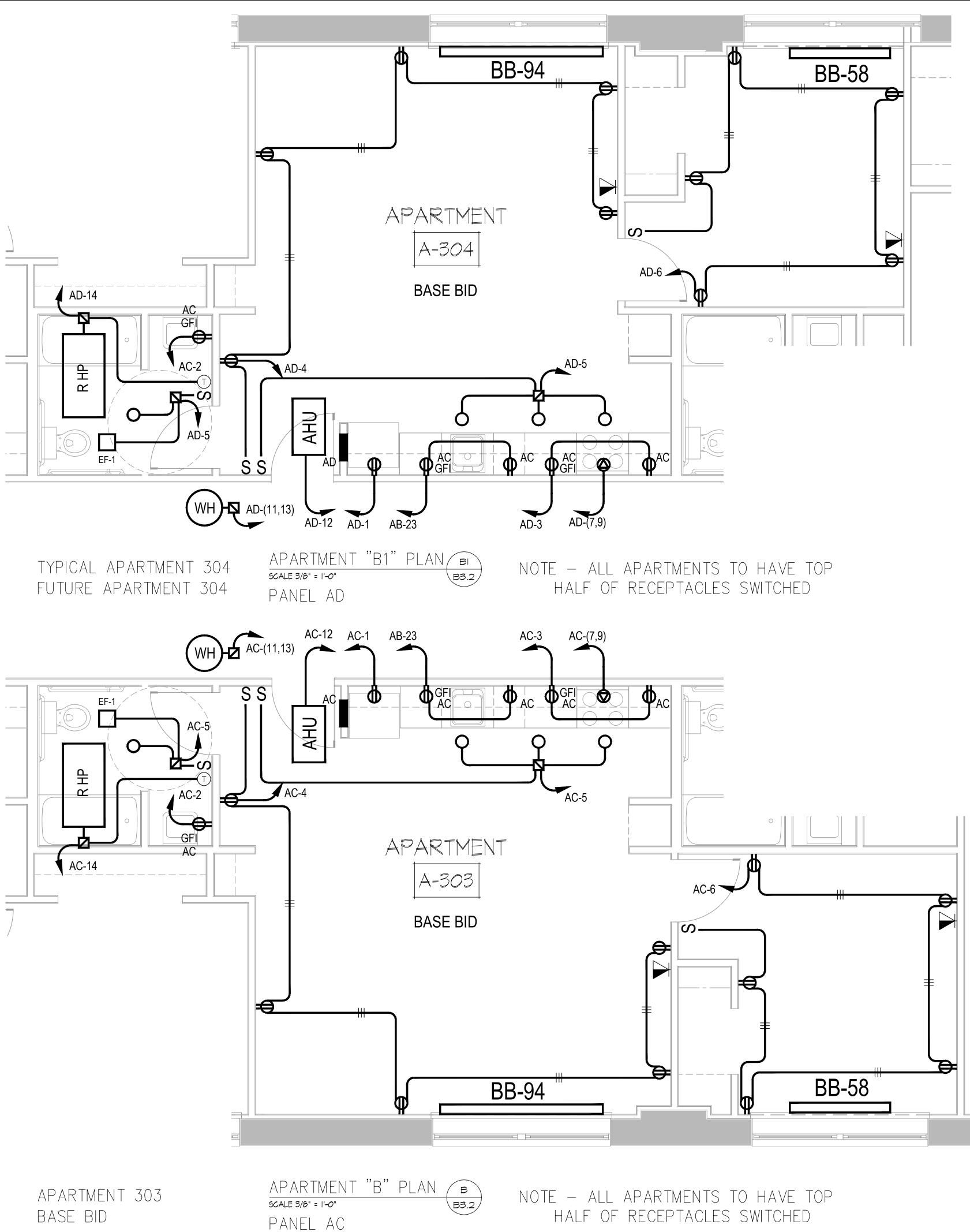
AG-12

AHU

NOTE - ALL APARTMENTS TO HAVE TOP HALF OF RECEPTACLES SWITCHED







NOTE: THE ELECTRICAL CONTRACTOR SHALL KEEP A SET OF DRAWINGS WITH NEATLY DOCUMENTED AS BUILT CONDITIONS. THIS SET SHALL BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT. NOTE: THE ELECTRICAL CONTRACTOR SHALL FURNISH A TYPED, REVISED PANEL DIRECTORY IN ALL PANELS IN WHICH WORK IS PERFORMED. PERSONNEL'S NAMES SHALL NOT BE USED IN LOAD DESCRIPTIONS. AS PART OF CREATING THE PANEL DIRECTORIES, THE ELECTRICAL CONTRACTOR SHALL TRACE ALL CIRCUITS IN THE PANELS IN WHICH THEY DO ANY WORK.	ALL DOCUMENTS PREPARED BY DAVID BLACK ASSOCIATES, INC. ARE INSTRUMENTS OF SERVICE WITH RESPECT TO THIS PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNERS, CONTRACTORS, OR OTHERS ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTION BY DAVID BLACK ASSOCIATES, INC. WILL BE AT THE OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO DAVID BLACK ASSOCIATES, INC. THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS, DAVID BLACK ASSOCIATES, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.
	ENGINEERS David Black Associates, Inc. David Black Associates Engineers, Inc. 501 Lincoln Way East Chambersburg, PA 17201 (717) 267-3646 Fax info@dba-ae.com
	WAYNESBORO NEW HOPE SHELTER APARTMENT ALTERATIONS – PHASE #1 & #2 WAYNESBORO, PENNSYLVANIA
	REVISION DATE
CONSULTANT:	ISSUE DATE MAY 4, 2016 DRAWING TITLE TYPICAL APARTMENT ELECTRICAL PLANS PROJECT NO. 14AE035 SHEET NUMBER
Consulting Engineer 213 S. Hanover Street, Carlisle, PA 17013 717 - 243 - 4541	E3.2