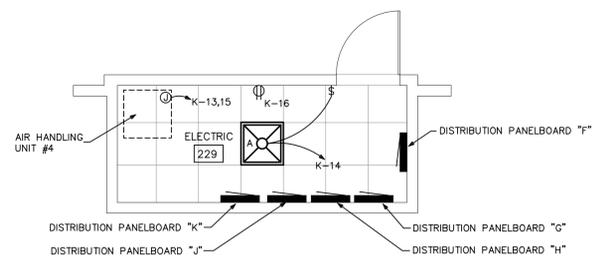
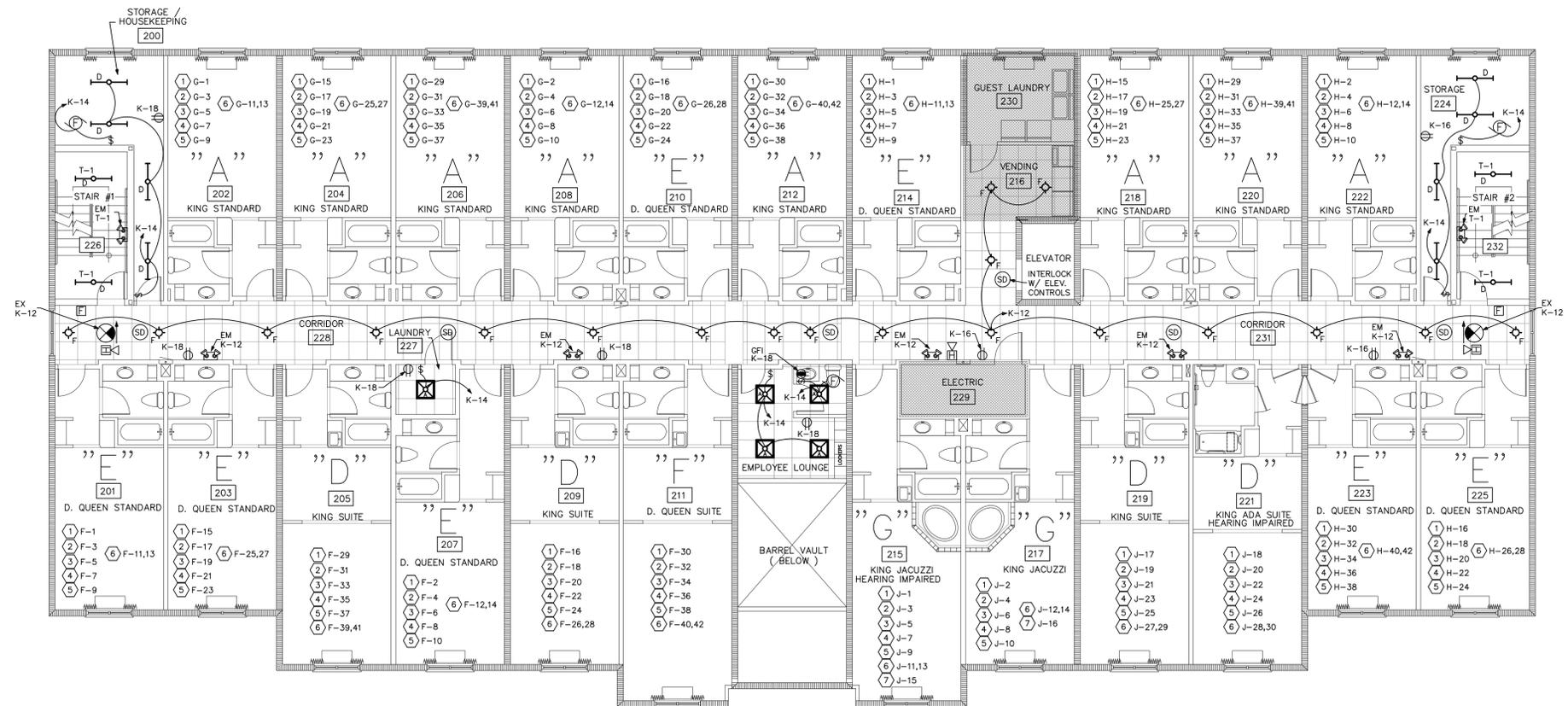


VENDING AND GUEST LAUNDRY



ELECTRICAL ROOM



PORTE COCHERE  
( BELOW )

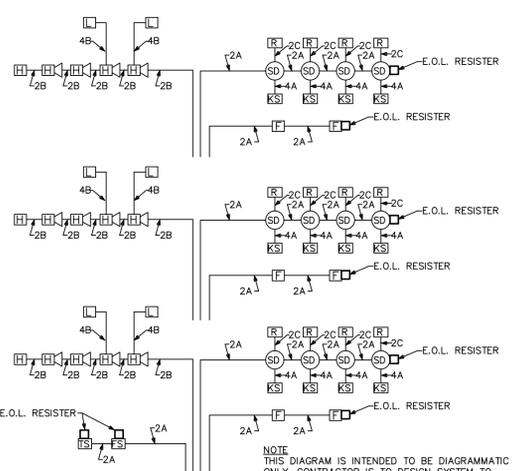


**ELECTRICAL NOTES:**

- GENERAL: ALL WORK SHALL CONFORM TO THE LATEST APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL JURISDICTIONAL CODES.  
THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND ANY APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, THE CONTRACTOR SHALL NOTIFY THE OWNER OR HIS REPRESENTATIVE AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM, AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL THE OWNER HAS DIRECTED THE CORRECTIVE ACTION TO BE TAKEN.  
THE CONTRACTOR SHALL COORDINATE THE PROPOSED LOCATIONS OF ALL ELECTRICAL MATERIALS AND EQUIPMENT WITH THE REPRESENTATIVES OF THE OTHER TRADES INVOLVED BEFORE STARTING INSTALLATION OF THOSE ITEMS.  
COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES, CONDUIT, AND SLEEVES TO BE SET IN CAST-IN-PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED.  
UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL SPECS ARE NOT INTENDED TO BE PROPRIETARY. SUBSTITUTIONS WILL BE ACCEPTABLE FOR EQUAL, RATED AND LISTED UNITS.
- SCOPE: EXCEPT WHERE OTHERWISE SPECIFICALLY INDICATED ON THE DRAWINGS BY "FUTURE," "BY OTHERS," OR BY A SIMILAR NOTATION, IT IS THE INTENT THAT THE CONTRACTOR FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS NECESSARY TO PROVIDE ALL SYSTEMS IN COMPLETE AND OPERATING CONDITION.
- EXCAVATE AS NECESSARY FOR THE INSTALLATION OF ELECTRICAL MATERIALS AND EQUIPMENT. VERIFY THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES OR STRUCTURES BEFORE EXCAVATING AND EXERCISE CARE TO AVOID DAMAGE TO SUCH ITEMS DURING EXCAVATION. BACKFILL WITH EARTH FREE OF LARGE GLOBS, LARGE STONES AND FOREIGN DEBRIS, DEPOSITED IN 6" LAYERS AND COMPACTED TO A DENSITY OF NOT LESS THAN THAT OF THE SURROUNDING UNDISTURBED MATERIAL.
- MATERIALS: THE MATERIALS AND EQUIPMENT FURNISHED SHALL BE AS INDICATED ON THE DRAWINGS. SUBSTITUTIONS SHALL NOT BE MADE EXCEPT WHERE EXPRESSLY APPROVED BY THE OWNER OR HIS REPRESENTATIVE PRIOR TO STARTING INSTALLATION OF THE ITEMS. THE ELECTRICAL MATERIALS AND EQUIPMENT FURNISHED SHALL BE LISTED OR LABELED BY UNDERWRITERS LABORATORIES OR OTHER RECOGNIZED TESTING ORGANIZATION, AND SHALL BE ACCEPTABLE TO THE LOCAL BUILDING AUTHORITY.
- GROUNDING: GROUNDING SHALL BE IN ACCORDANCE WITH ARTICLE 250, NEC.
- CONDUITS: PROVIDE CONDUITS WHERE CALLED FOR ON PANEL SCHEDULES. ELECTRICAL METALLIC TUBING (EMT) SHALL BE INSTALLED ONLY IN DRY LOCATIONS, IN CONCRETE ABOVE GRADE, AND WHERE NOT SUBJECT TO PHYSICAL DAMAGE.  
CONDUITS INSTALLED UNDERGROUND SHALL BE POLYVINYLCHLORIDE (PVC) AND SHALL NOT BE SMALLER THAN 3/4" TRADE SIZE. WHERE PVC CONDUIT IS INSTALLED UNDERGROUND, ELBOWS TURNING UP AND CONDUIT EMERGING ABOVE GRADE SHALL BE RSC. THE TOPS OF CONDUITS SHALL NOT BE LESS THAN 24" BELOW FINISHED GRADE. PVC CONDUIT INSTALLED ABOVE GRADE OR DIRECT-BURIED IN EARTH SHALL BE NEMA TC2 TYPE EPC-40-PVC (SCHEDULE 40) EXCEPT THAT WHERE UNDER AREAS SUBJECT TO HEAVY VEHICULAR TRAFFIC, IT SHALL BE NEMA TC2 TYPE EPC-80-PVC (SCHEDULE 80).  
ALL ARMOR CLAD CABLE (AC CABLE) WIRING SHALL MEET OR EXCEED ALL NEC, OSHA AND HUD STANDARDS.
- CONDUCTORS: CONDUCTORS SHALL BE AS SCHEDULED ON PANEL SCHEDULES. ALL POWER CONDUCTORS SHALL NOT BE SMALLER THAN #14 AWG (CU), OR #12 AWG (AL), CONTROL CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN #18 AWG CU. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET WITHOUT SPLICES EXCEPT WITHIN WIREWAY OR JUNCTION BOXES. MARK CONDUCTORS IN PANELS, PULL BOXES OR WIREWAYS AND TERMINAL STRIP TERMINALS FOR IDENTIFICATION OF CIRCUITS.  
CONDUCTORS SHALL BE JOINED USING COMPRESSION SPLICES, EXCEPT THAT CONDUCTORS #10 AND SMALLER MAY BE JOINED USING WIRE NUT TYPE CONNECTORS. CONDUCTORS SHALL BE TERMINATED USING COMPRESSION OR PRESSURE-TYPE TERMINAL LUGS, OR IN PRESSURE TERMINALS. COMPRESSION SPLICES USED ON CONDUCTORS #10 AWG AND SMALLER, SHALL BE THE SELF-INSULATED TYPE; OTHER SPLICES SHALL BE INSULATED USING 3M #33+ OR #88 PLASTIC TAPE. SPLICES IN WET LOCATIONS SHALL BE INSULATED WITH ELECTRICAL TAPE AND ENCAPSULATED WITH SCOTCHCAST OR EQUAL POTTING COMPOUND.
- PROVIDE AND INSTALL JUNCTION AND PULL BOXES WHERE INDICATED AND WHERE NECESSARY TO TERMINATE, TAP OFF, OR REDIRECT MULTIPLE CONDUIT RUNS, OF SIZE INDICATED OR AS REQUIRED BY NEC. WHERE FEEDER SPLICES ARE TO BE MADE, INSTALL BOXES LARGE ENOUGH TO PROVIDE AMPLE WORK SPACE.
- LIGHTING FIXTURES: LIGHTING FIXTURES SHALL BE AS INDICATED ON THE DRAWINGS, AND SHALL BE INSTALLED COMPLETE WITH LAMPS. FIXTURES WITH ADJUSTMENTS AFFECTING LIGHT DISTRIBUTION SHALL BE SET TO PROVIDE THE REQUIRED LIGHT PATTERNS PRIOR TO THE FINAL DEMONSTRATION TEST.
- TESTS: AFTER EACH SYSTEM HAS BEEN COMPLETED, A FUNCTIONAL TEST SHALL BE PERFORMED TO DEMONSTRATE THAT THE SYSTEM OPERATES IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS. THE TEST SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE OF THE OWNER OR HIS REPRESENTATIVE.
- TERMINALS: ALL ELECTRICAL EQUIPMENT FURNISHED ON THIS PROJECT IS TO HAVE TERMINALS RATED FOR 75° C. OPERATION.

**LEGEND**

ACFP 4001-9403 HONEYWELL POWER LIMITED CONTROL PANEL
2099-9695 PULL STATION
4901-9705 HORN
4904-9501 STROBE ONLY
2098-9649 DUCT DETECTOR
MR801/T RELAY
2908-9806 KEY SWITCH
FLOW SWITCH (FURNISHED BY F.S. CONTRACTOR)
TAMPER SWITCH (FURNISHED BY F.S. CONTRACTOR)

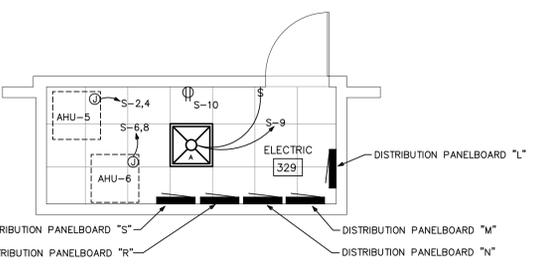


**WIRE LEGEND**

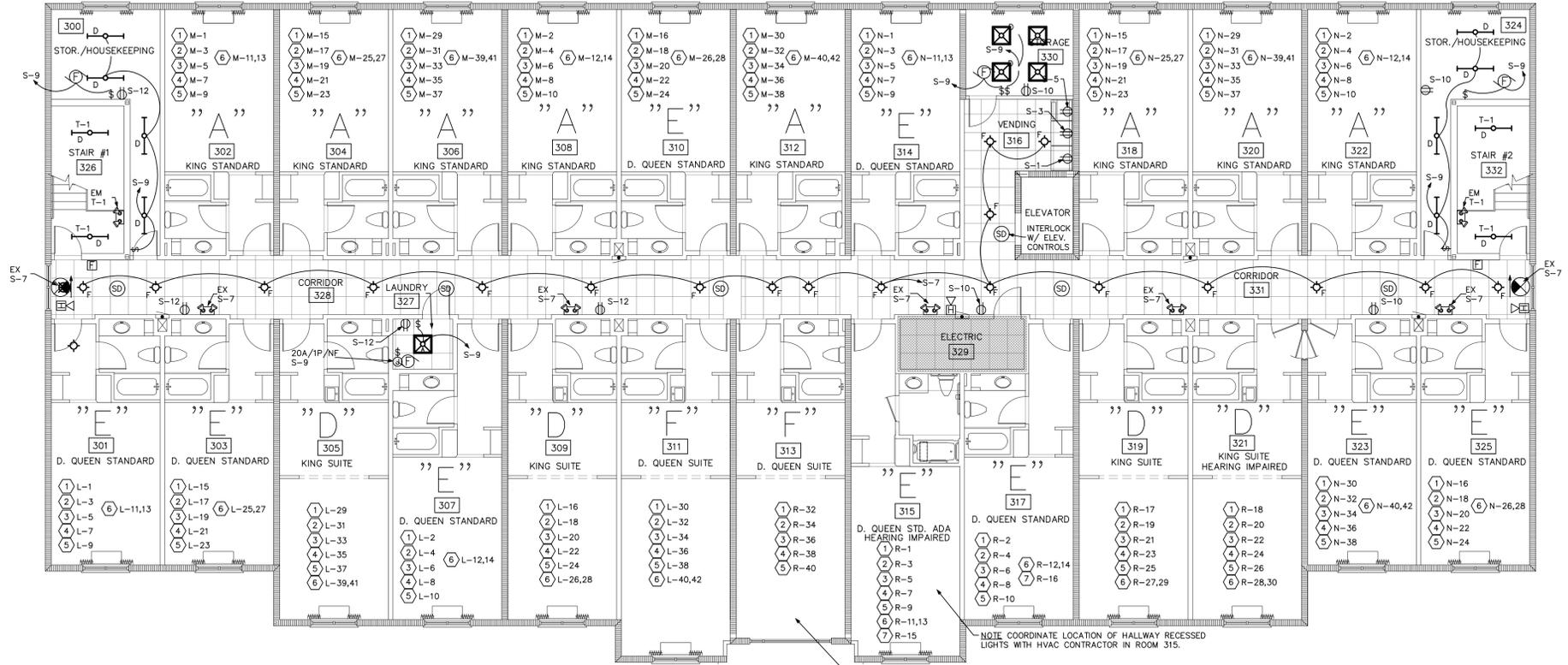
A = 18 AWG SOLID ALARM
B = 14 AWG SOLID CONTROL
C = 18 AWG SOLID CONTROL

NOTE: ALL WIRING TO BE EXPOSED EXCEPT VERTICAL RUN FROM CEILING TO DEVICE.

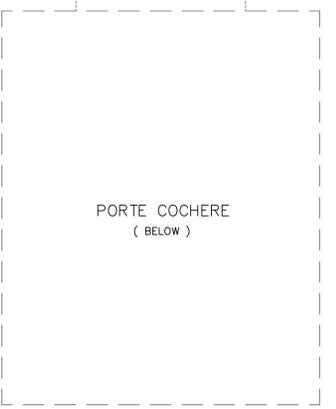
**FIRE ALARM RISER DIAGRAM** NO SCALE



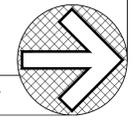
**ENLARGED ELECTRICAL ROOM** SCALE: 1/8" = 1'-0"

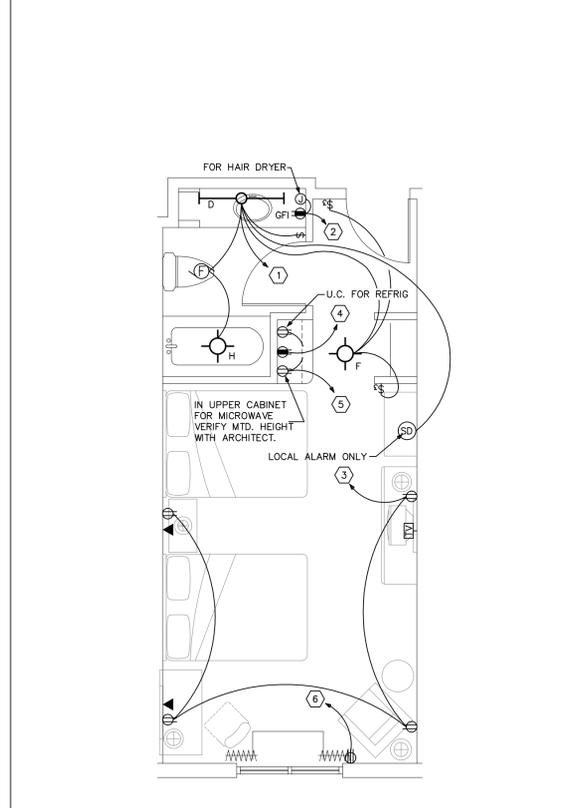
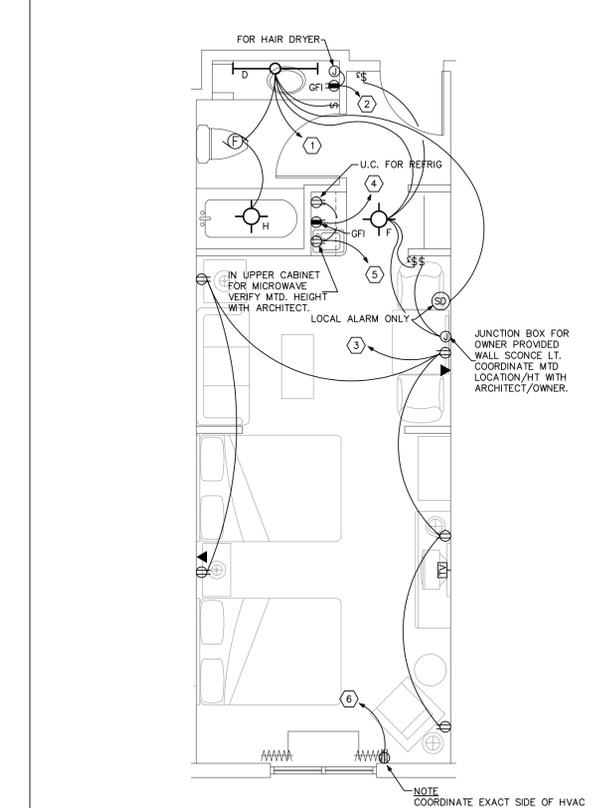
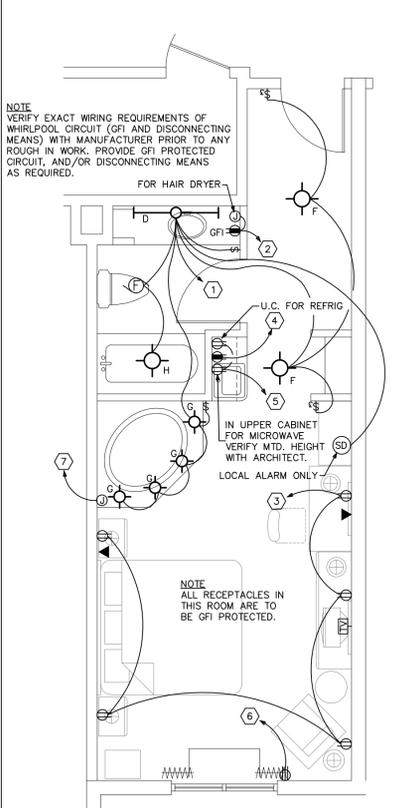
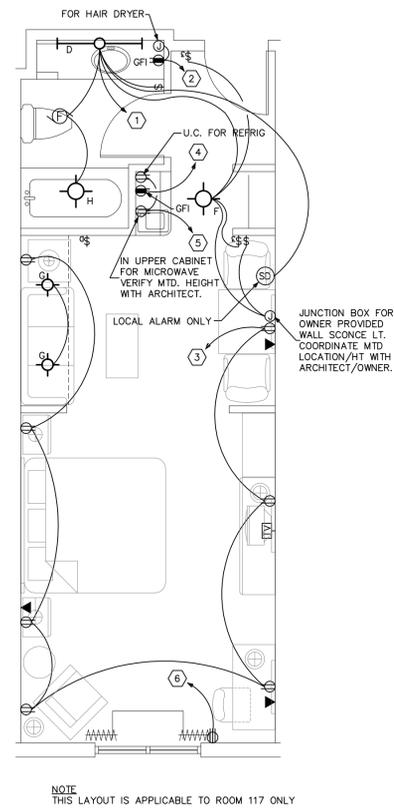


NOTE ROOM 313 DOES NOT HAVE A WALL HVAC UNIT. THE HVAC UNIT FOR THIS ROOM IS LOCATED IN THE ELECTRICAL ROOM. SEE ELECTRICAL ROOM BLOWUP. COORDINATE LOCATION OF BATHROOM RECESSED LIGHT WITH HVAC CONTRACTOR PRIOR TO ROUGH IN.



**THIRD FLOOR PLAN** SCALE: 1/8" = 1'-0"



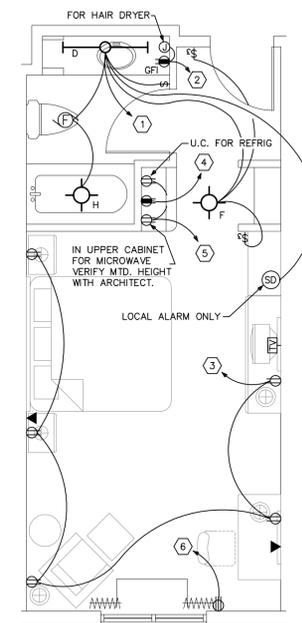
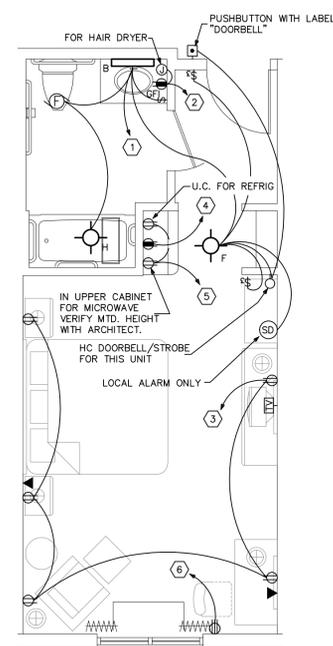
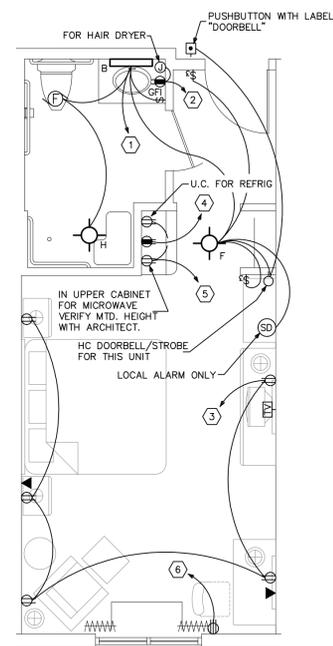
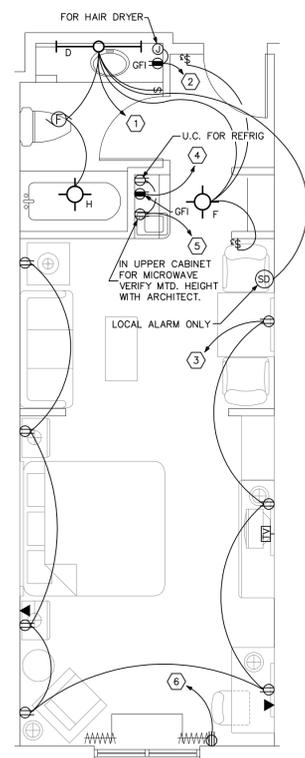


UNIT TYPE "D" - KING MINI SUITE

UNIT TYPE "G" - KING JACUZZI

UNIT TYPE "F" - DOUBLE QUEEN MINI SUITE

UNIT TYPE "E" - DOUBLE QUEEN STANDARD



NOTES

- 1.) OFFSET ALL RECEPTACLES IN PARTY WALLS A MINIMUM OF 24" HORIZONTALLY.
- 2.) ALL DEVICES AT THE DESK OF EACH ROOM ARE TO BE MOUNTED AT +42"
- 3.) ALL RECEPTACLES (EXCEPT IN HANDICAPPED ACCESSIBLE ROOM) ARE TO BE LOCATED AT +15".
- 4.) ALL CATV AND PHONE OUTLETS (EXCEPT IN HANDICAPPED ACCESSIBLE ROOM) ARE TO BE LOCATED AT +12".

UNIT TYPE "D" - KING MINI SUITE

UNIT TYPE "C" - KING A.D.A. (SHOWER) GUEST UNIT # 102

UNIT TYPE "B" - KING A.D.A. (BATHTUB) GUEST UNIT # 104

UNIT TYPE "A" - KING STANDARD

CIRCUIT BREAKER PANEL SCHEDULE S																
100 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 10000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 1 ENCLOSURE																
BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT				BKR. #	
	COND.	NEUTRAL	GND	C. KEYS							KEYS	C.	GND	NEUTRAL		COND.
1	20/1	#12	#12	1/2	CHAL	VENDING MACHINE	1000	1000	0						2	
3	20/1	#12	#12	1/2	CHAL	VENDING MACHINE	1000	1000	0	AIR HANDLING UNIT #5	CHAL	1/2	#10	#10	40/2	4
5	20/1	#12	#12	1/2	CHAL	ICE MACHINE	900	900	0							6
7	20/1	#12	#12	1/2	CHAL	HALLWAY LIGHTING *	1200	1200	1833	AIR HANDLING UNIT #6	CHAL	1/2	#10	#10	30/2	8
9	20/1	#12	#12	1/2	CHAL	LIGHTING	680	680	0							10
11					SPACE		900	900	0	RECEPTACLES	CHAL	1/2	#12	#12	20/1	10
13					SPACE		720	720	0	RECEPTACLES	CHAL	1/2	#12	#12	20/1	12
15					SPACE		0	0	0						14	
17					SPACE		0	0	0						16	
19					SPACE		0	0	0						18	
21					SPACE		0	0	0						20	
23					SPACE		0	0	0						22	
25					SPACE		0	0	0						24	
27					SPACE		0	0	0						26	
29					SPACE		0	0	0						28	
31					SPACE		0	0	0						30	

WIRE/CONDUIT KEY: WIRING TYPE: INSULATION: CONDUIT TYPE: TEMP RATING: L-78-86 Deg. F.

5949 4416 3453 PEAK PHASE (B) UNBALANCED NEUTRAL LOAD AMPS = 20.8 AMPS  
NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 13.819

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CIRCUIT BREAKER PANEL SCHEDULE T																
200 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 22000 AMPS MINIMUM A.I.C. BRACING, FLUSH MOUNTED, TYPE NEMA 1 ENCLOSURE																
BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT				BKR. #	
	COND.	NEUTRAL	GND	C. KEYS							KEYS	C.	GND	NEUTRAL		COND.
1	20/1	#12	#12	1/2	CHAL	STAIR 1 AND 2 LIGHTING *	1100	1100	0	RM 117 LIGHTING	CHAL	1/2	#12	#12	20/1	2
3	20/1	#12	#12	1/2	CHAL	ELEV MACH ROOM LTG/RECEPT	255	255	280	RM 117 BATHROOM OUTLET	CHAL	1/2	#12	#12	20/1	4
5	20/1	#12	#12	1/2	CHAL	ELEVATOR CAB LIGHTING	180	180	180	RM 117 RECEPTACLES	CHAL	1/2	#12	#12	20/1	6
7	20/1	#12	#12	1/2	CHAL	ELEVATOR PIT LTG/RECEPT	180	180	180	RM 117 COUNTER OUTLET	CHAL	1/2	#12	#12	20/1	8
9	20/1	#12	#12	1/2	CHAL	BOILER FAN / RECIRC PUMP	1664	1664	1700	RM 117 REFRIG/MICROWAVE	CHAL	1/2	#12	#12	20/1	10
11	20/1	#12	#12	1/2	CHAL	LIGHTING	1000	1000	0							12
13	20/1	#12	#12	1/2	CHAL	LIGHTING	1000	1000	0	RM 117 HVAC UNIT	CHAL	1/2	#12	#12	20/1	14
15	20/1	#12	#12	1/2	CHAL	LIGHTING	1400	1400	0							16
17	20/1	#12	#12	1/2	CHAL	LIGHTING	1100	1100	0	HALLWAY LIGHTING **	CHAL	1/2	#12	#12	20/1	18
19	20/1	#12	#12	1/2	CHAL	LIGHTING	1400	1400	0	EXTERIOR LIGHTS **	CHAL	1/2	#12	#12	20/1	20
21	20/1	#12	#12	1/2	CHAL	LIGHTING	1200	1200	0	PORTE-COCHÉ LIGHTING **	CHAL	1/2	#10	#10	20/2	22
23	20/1	#12	#12	1/2	CHAL	LIGHTING	700	700	1450							24
25	20/1	#12	#12	1/2	CHAL	RECEPTACLES	1440	1440	1980	SITE LIGHTING **	CHAL	1/2	#10	#10	30/3	26
27	20/1	#12	#12	1/2	CHAL	RECEPTACLES	1440	1440	1980							28
29	20/1	#12	#12	1/2	CHAL	RECEPTACLES	900	900	1980							30
31	20/1	#12	#12	1/2	CHAL	RECEPTACLES	1260	1260	1980	SITE LIGHTING **	CHAL	1/2	#10	#10	30/3	32
33	20/1	#12	#12	1/2	CHAL	RECEPTACLES	900	900	1980							34
35	20/1	#12	#12	1/2	CHAL	RECEPTACLES	540	540	833							36
37					SPACE		0	0	833							38
39					SPACE		0	0	833	SITE PYLON SIGN **	CHAL	1/2	#10	#10	30/3	40
41					SPACE		0	0	833							42

WIRE/CONDUIT KEY: WIRING TYPE: INSULATION: CONDUIT TYPE: TEMP RATING: L-78-86 Deg. F.

13998 16107 12493 PEAK PHASE (B) UNBALANCED NEUTRAL LOAD AMPS = 82.2 AMPS  
NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 42.258

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CIRCUIT BREAKER PANEL SCHEDULE U																
100 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 22000 AMPS MINIMUM A.I.C. BRACING, FLUSH MOUNTED, TYPE NEMA 1 ENCLOSURE																
BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT				BKR. #	
	COND.	NEUTRAL	GND	C. KEYS							KEYS	C.	GND	NEUTRAL		COND.
1	20/1	#12	#12	1/2	CHAL	FRONT DESK RECEPTACLES	360	360	0	FIRE ALARM CONTROL PANEL	CHAL	1/2	#12	#12	20/1	2
3	20/1	#12	#12	1/2	CHAL	FRONT DESK RECEPTACLES	100	100	0	PHONE BOARD OUTLET	CHAL	1/2	#12	#12	20/1	4
5	20/1	#12	#12	1/2	CHAL	MANAGER OFF. RECEPT	180	180	0	CATV BOARD OUTLET	CHAL	1/2	#12	#12	20/1	6
7	20/1	#12	#12	1/2	CHAL	FRONT DESK OFF. RECEPT	720	720	180	PARKING LOT RECEPTACLES	CHAL	1/2	#12	#12	20/1	8
9	20/1	#12	#12	1/2	CHAL	WORK AREA RECEPTACLES	360	360	0	PARKING LOT RECEPTACLES	CHAL	1/2	#12	#12	20/1	10
11	20/1	#12	#12	1/2	CHAL	WORK AREA RECEPTACLES	360	360	540							12
13	20/1	#12	#12	1/2	CHAL	PARKING LOT RECEPTACLES	720	720	0	SPACE						14
15	20/1	#12	#12	1/2	CHAL	PARKING LOT RECEPTACLES	720	720	0	SPACE						16
17	20/1	#12	#12	1/2	CHAL	PARKING LOT RECEPTACLES	720	720	0	SPACE						18
19	20/1	#12	#12	1/2	CHAL	PARKING LOT RECEPTACLES	720	720	0	SPACE						20
21	20/1	#12	#12	1/2	CHAL	PARKING LOT RECEPTACLES	540	540	0	SPACE						22
23	20/1	#12	#12	1/2	CHAL	PARKING LOT RECEPTACLES	540	540	0	SPACE						24
25	20/1	#12	#12	1/2	CHAL	PARKING LOT RECEPTACLES	720	720	0	SPACE						26
27	20/1	#12	#12	1/2	CHAL	PARKING LOT RECEPTACLES	720	720	0	SPACE						28
29	20/1	#12	#12	1/2	CHAL	PARKING LOT RECEPTACLES	720	720	0	SPACE						30

WIRE/CONDUIT KEY: WIRING TYPE: INSULATION: CONDUIT TYPE: TEMP RATING: L-78-86 Deg. F.

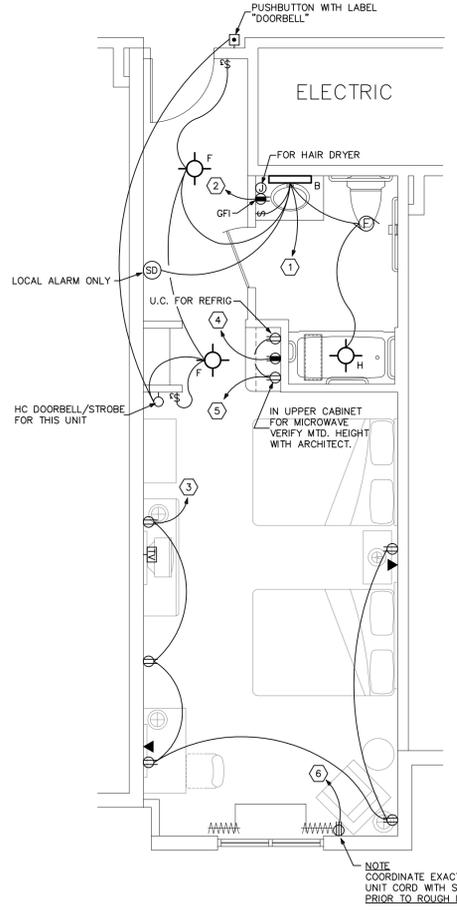
4060 3240 3420 PEAK PHASE (A) UNBALANCED NEUTRAL LOAD AMPS = 33.8 AMPS  
NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 10.720

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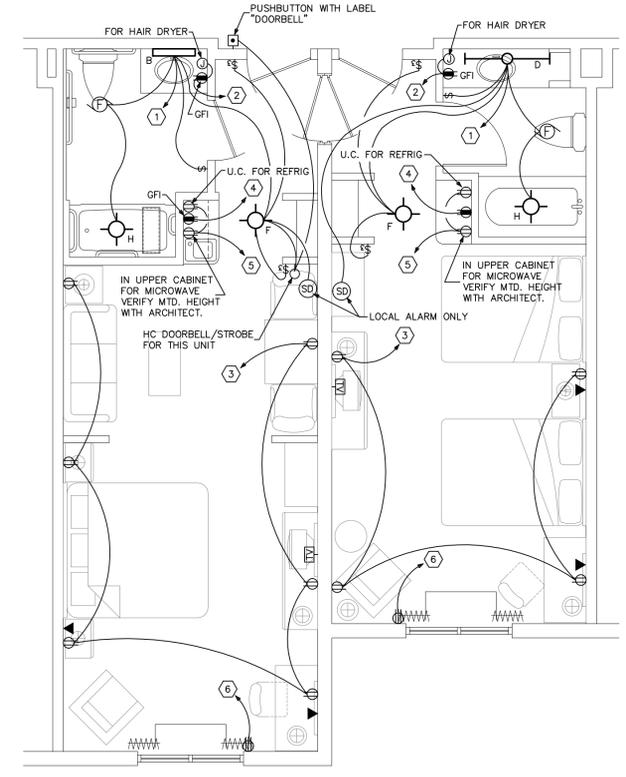
PANEL U DIVERSIFICATION CALCULATIONS		PANEL T DIVERSIFICATION CALCULATIONS		PANEL S DIVERSIFICATION CALCULATIONS	
RECEPTACLES (C9) - 10620 VA TOTAL	FIRST 10 KVA AT 100% - 10000	RECEPTACLES (47) - 8460 VA TOTAL	FIRST 10 KVA AT 100% - 8460	RECEPTACLES (9) - 1620 VA TOTAL	FIRST 10 KVA AT 100% - 1620
REMAINDER AT 25% - 310		LIGHTING - 2616 X 1.25% - 3270		REMAINDER AT 25% - 2250	
MISC NON-CONTINUOUS LOADS AT 100% - 100		HVAC LOAD AT 100% - 2000		HVAC LOAD AT 100% - 7498	
TOTAL DIVERSIFIED PANEL LOAD - 10419		MOTOR LOADS AT 100% - 1799		PLUS 25% OF THE LARGEST MOTOR - 298	
LOAD AT 120/208V/3-PHASE/4-WIRE - 28.9A		MISC NON-CONTINUOUS LOADS AT 100% - 4200		MISC NON-CONTINUOUS LOADS AT 100% - 2900	
		TOTAL DIVERSIFIED PANEL LOAD - 49307		TOTAL DIVERSIFIED PANEL LOAD - 14476	
		LOAD AT 120/208V/3-PHASE/4-WIRE - 137.0A		LOAD AT 120/208V/3-PHASE/4-WIRE - 40.2A	

LIGHTING FIXTURE SCHEDULE							
LABEL	TYPE OF FIXTURE	FINISH	LENS TYPE	VOLTAGE	LAMP	MANUFACTURER & MODEL NO.	REMARKS
A	RECESSED 2'X2' TROFFER	WHITE	PARABOLIC	120	(2) 17W T8	LITHONIA 2PM2-G-217-16LD-120	
B	FLUORESCENT WALL LIGHT	WHITE	PRISMATIC	120	(2) 17W T8	LITHONIA WC-217-A12-120	
C	8' FLUORESCENT STRIP	WHITE		120	(2) 75W T8	LITHONIA C-296-120	
D	4' FLUORESCENT STRIP	WHITE		120	(2) 32W T8	LITHONIA C-232-120	
EM	EMERGENCY EGRESS	WHITE		120	INCLUDED	LITHONIA ELM2	W/ BATTERY BACKUP
EX	EXIT SIGN	WHITE	RED	120	INCLUDED	LITHONIA LE-SW2R-120/277-ELN	W/ BATTERY BACKUP
F	RECESSED INCANDESCENT	WHITE		120	(1) 60W PAR38	LITHONIA R-6MB	W/ BLACK MICROGROOVE BAFFLE
G	LOW VOLTAGE ACCENT DNLT	WHITE		120	(1) 50W MR16	LITHONIA DLV-DWN-MR16-3WC-120	
H	RECESSED INCANDESCENT	WHITE	FLAT FRESNEL	120	(1) 60W A19	LITHONIA LG-7RW-FFL	WET LOCATION LISTED
K	HID WALL PACK	BRONZE	POLYCARBONATE	120	(1) 100W MH	LITHONIA TWP-100M-120	
L	RECESSED HID	WHITE	FLAT FRESNEL	120	(1) 70W MH	LITHONIA LGH-70M-7RW-FFL-120	WET LOCATION LISTED
M	RECESSED HID	WHITE	FLAT FRESNEL	208	(1) 250W MH	LITHONIA LGH-250M-12RW-FFL-208	WET LOCATION LISTED
SA	SITE LIGHT	BRONZE	GLASS	208	(1) 400W MH	SPAULDING CEI-M400-IV-CS	SEE E-1 FOR ADDITIONAL INFORMATION
SB	GROUND MTD HID UP-LIGHT	BRONZE	TEMPERED GLASS	208	(1) 100W MH	LITHONIA KFL2-100M-SP-208-STM	GROUND STANCHION MOUNTED

LIGHT FIXTURE SCHEDULE



UNIT TYPE "E" - DOUBLE QUEEN STD ADA GUEST UNIT # 315



UNIT TYPE "D" - KING ADA MINI SUITE GUEST UNIT # 221 ( ADJOINING )

PANEL K DIVERSIFICATION CALCULATIONS			
RECEPTACLES (11) - 1980 VA TOTAL	1980		
FIRST 10 KVA AT 100% -	2625		
LIGHTING - 2100 X 125% -	2625		
HVAC LOAD AT 100% -	5832		
PLUS 25% OF THE LARGEST MOTOR -	208		
MISC NON-CONTINUOUS LOADS AT 100% -	16200		
TOTAL DIVERSIFIED PANEL LOAD -	26845		
LOAD AT 120/208V/3-PHASE/4-WIRE -	74.6A		

PANEL L DIVERSIFICATION CALCULATIONS			
RECEPTACLES (43) - 7740 VA TOTAL	7740		
FIRST 10 KVA AT 100% -	1350		
LIGHTING - 1080 X 125% -	1350		
HVAC LOAD AT 100% -	12000		
PLUS 25% OF THE LARGEST MOTOR -	450		
MISC NON-CONTINUOUS LOADS AT 100% -	19		
TOTAL DIVERSIFIED PANEL LOAD -	31759		
LOAD AT 120/208V/3-PHASE/4-WIRE -	86.2A		

PANEL M DIVERSIFICATION CALCULATIONS			
RECEPTACLES (41) - 7380 VA TOTAL	7380		
FIRST 10 KVA AT 100% -	1350		
LIGHTING - 1080 X 125% -	1350		
HVAC LOAD AT 100% -	12000		
PLUS 25% OF THE LARGEST MOTOR -	450		
MISC NON-CONTINUOUS LOADS AT 100% -	19		
TOTAL DIVERSIFIED PANEL LOAD -	31999		
LOAD AT 120/208V/3-PHASE/4-WIRE -	87.2A		

PANEL N DIVERSIFICATION CALCULATIONS			
RECEPTACLES (39) - 7020 VA TOTAL	7020		
FIRST 10 KVA AT 100% -	1200		
LIGHTING - 1080 X 125% -	1350		
HVAC LOAD AT 100% -	12000		
PLUS 25% OF THE LARGEST MOTOR -	450		
MISC NON-CONTINUOUS LOADS AT 100% -	19		
TOTAL DIVERSIFIED PANEL LOAD -	31039		
LOAD AT 120/208V/3-PHASE/4-WIRE -	86.2A		

PANEL P DIVERSIFICATION CALCULATIONS			
RECEPTACLES (40) - 1800 VA TOTAL	1800		
FIRST 10 KVA AT 100% -	3125		
LIGHTING - 2500 X 125% -	3125		
HVAC LOAD AT 100% -	14724		
PLUS 25% OF THE LARGEST MOTOR -	1500		
TOTAL DIVERSIFIED PANEL LOAD -	20432		
LOAD AT 120/208V/3-PHASE/4-WIRE -	56.8A		

PANEL R DIVERSIFICATION CALCULATIONS			
RECEPTACLES (31) - 5580 VA TOTAL	5580		
FIRST 10 KVA AT 100% -	950		
LIGHTING - 900 X 125% -	1125		
HVAC LOAD AT 100% -	9749		
PLUS 25% OF THE LARGEST MOTOR -	375		
MISC NON-CONTINUOUS LOADS AT 100% -	187		
TOTAL DIVERSIFIED PANEL LOAD -	28678		
LOAD AT 120/208V/3-PHASE/4-WIRE -	79.7A		

CIRCUIT BREAKER PANEL SCHEDULE P													
100 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 10000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 1 ENCLOSURE													
BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	WIRE AND CONDUIT				BKR.			
	COND.	NEUTRAL	COND.	C. KEYS		COND.	NEUTRAL	COND.	C. KEYS				
1	20/2	---	---	---	FUTURE POOL DECK LIGHTS	0	1250	20/4	---	---	---	---	2
3	20/1	1/2	1/2	1/2	FUTURE POOL DECK RECEP	1080	1800	1/2	1/2	1/2	1/2	50/3	4
7	20/1	1/2	1/2	1/2	SPACE	0	0	---	---	---	---	---	6
9	20/1	1/2	1/2	1/2	SPACE	0	900	---	---	---	---	---	8
11	20/2	1/2	1/2	1/2	FUTURE POOL VAC PUMP	0	900	---	---	---	---	30/3	10
13	20/2	1/2	1/2	1/2	SPACE	0	0	---	---	---	---	---	12
15	20/2	1/2	1/2	1/2	SPACE	0	0	---	---	---	---	---	14
17	20/1	1/2	1/2	1/2	SPACE	0	0	---	---	---	---	---	16
19	20/1	1/2	1/2	1/2	SPACE	0	0	---	---	---	---	---	18
21	20/1	1/2	1/2	1/2	SPACE	0	0	---	---	---	---	---	20
23	20/1	1/2	1/2	1/2	SPACE	0	0	---	---	---	---	---	22
25	20/1	1/2	1/2	1/2	SPACE	0	0	---	---	---	---	---	24
27	20/2	1/2	1/2	1/2	SPACE	0	0	---	---	---	---	---	26
29	20/2	1/2	1/2	1/2	SPACE	0	0	---	---	---	---	---	28
31	20/1	1/2	1/2	1/2	SPACE	0	0	---	---	---	---	---	30
WIRE/CONDUIT KEY						WIRING TYPE	INSULATION	CONDUIT TYPE	TEMP RATING	4154 4154 3984 PEAK PHASE (C) UNBALANCED NEUTRAL LOAD AMPS = 9. AMPS NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 34.1 AMPS			
1234						C-CU WIRE	H-THWN	A-EMT	L-78-86 Deg. F.	12,292			
1234						CONDUIT TYPE	INSULATION	CONDUIT TYPE	TEMP RATING	PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001 REGISTERED TO - TODD W. CAREY AND ASSOCIATES OF THE CAROLINAS, PA			

CIRCUIT BREAKER PANEL SCHEDULE M													
100 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 10000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 1 ENCLOSURE													
BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	WIRE AND CONDUIT				BKR.			
	COND.	NEUTRAL	COND.	C. KEYS		COND.	NEUTRAL	COND.	C. KEYS				
1	20/1	1/2	1/2	1/2	RM 302 LIGHTING	255	255	---	---	---	---	20/1	2
3	20/1	1/2	1/2	1/2	RM 302 BATHROOM OUTLET	180	180	---	---	---	---	20/1	4
5	20/1	1/2	1/2	1/2	RM 302 RECEPTACLES	900	900	---	---	---	---	20/1	6
7	20/1	1/2	1/2	1/2	RM 302 COUNTER OUTLET	180	180	---	---	---	---	20/1	8
9	20/1	1/2	1/2	1/2	RM 302 REFRIG/MICROWAVE	1700	1700	---	---	---	---	20/1	10
11	20/2	1/2	1/2	1/2	RM 302 HVAC UNIT	0	1000	---	---	---	---	20/2	12
13	20/1	1/2	1/2	1/2	RM 304 LIGHTING	255	255	---	---	---	---	20/1	16
15	20/1	1/2	1/2	1/2	RM 304 BATHROOM OUTLET	180	180	---	---	---	---	20/1	18
17	20/1	1/2	1/2	1/2	RM 304 RECEPTACLES	900	900	---	---	---	---	20/1	20
19	20/1	1/2	1/2	1/2	RM 304 COUNTER OUTLET	180	180	---	---	---	---	20/1	22
21	20/1	1/2	1/2	1/2	RM 304 REFRIG/MICROWAVE	1700	1700	---	---	---	---	20/1	24
23	20/2	1/2	1/2	1/2	RM 304 HVAC UNIT	0	1000	---	---	---	---	20/2	26
25	20/1	1/2	1/2	1/2	RM 306 LIGHTING	255	255	---	---	---	---	20/1	28
27	20/1	1/2	1/2	1/2	RM 306 BATHROOM OUTLET	180	180	---	---	---	---	20/1	30
29	20/1	1/2	1/2	1/2	RM 306 RECEPTACLES	900	900	---	---	---	---	20/1	32
31	20/1	1/2	1/2	1/2	RM 306 COUNTER OUTLET	180	180	---	---	---	---	20/1	34
33	20/1	1/2	1/2	1/2	RM 306 REFRIG/MICROWAVE	1700	1700	---	---	---	---	20/1	36
35	20/2	1/2	1/2	1/2	RM 306 HVAC UNIT	0	1000	---	---	---	---	20/2	38
37	20/1	1/2	1/2	1/2	RM 308 LIGHTING	255	255	---	---	---	---	20/1	40
39	20/1	1/2	1/2	1/2	RM 308 BATHROOM OUTLET	180	180	---	---	---	---	20/1	42
41	20/2	1/2	1/2	1/2	RM 308 HVAC UNIT	0	1000	---	---	---	---	20/2	44
WIRE/CONDUIT KEY						WIRING TYPE	INSULATION	CONDUIT TYPE	TEMP RATING	10250 10430 10430 PEAK PHASE (B) UNBALANCED NEUTRAL LOAD AMPS = 53.6 AMPS NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 86.4 AMPS			
1234						C-CU WIRE	H-THWN	A-EMT	L-78-86 Deg. F.	31,110			
1234						CONDUIT TYPE	INSULATION	CONDUIT TYPE	TEMP RATING	PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001 REGISTERED TO - TODD W. CAREY AND ASSOCIATES OF THE CAROLINAS, PA			

CIRCUIT BREAKER PANEL SCHEDULE K													
100 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 10000 AMPS MINIMUM A.I.C. BRACING, FLUSH MOUNTED, TYPE NEMA 1 ENCLOSURE													
BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	WIRE AND CONDUIT				BKR.			
	COND.	NEUTRAL	COND.	C. KEYS		COND.	NEUTRAL	COND.	C. KEYS				
1	25/2	1/0	---	---	DOMESTIC CLOTHES DRYER	1000	1000	---	---	---	---	20/1	2
3	25/2	1/0	---	---	DOMESTIC CLOTHES WASHER	1500	1500	---	---	---	---	20/1	4
5	25/2	1/0	---	---	DOMESTIC CLOTHES WASHER	1500	1500	---	---	---	---	20/1	6
7	20/2	1/2	1/2	1/2	LAUNDRY RM 230 HVAC UNIT	0	1000	---	---	---	---	20/2	8
9	20/2	1/2	1/2	1/2	ICE MACHINE	1200	1200	---	---	---	---	20/1	10
11	40/2	1/0	---	---	END FLOOR HALLWAY LITS #	1916	1916	---	---	---	---	20/1	12
13	40/2	1/0	---	---	END FLOOR COMMON LIGHTS	900	900	---	---	---	---	20/1	14
15	20/1	1/2	1/2	1/2	COMMON SPACE RECEPTACLES	0	1916	---	---	---	---	20/1	16
17	20/1	1/2	1/2	1/2	COMMON SPACE RECEPTACLES	0	1080	---	---	---	---	20/1	18
19	20/1	1/2	1/2	1/2	COMMON SPACE RECEPTACLES	0	900	---	---	---	---	20/1	20
21	20/1	1/2	1/2	1/2	SPACE	0	0	---	---	---	---	20/1	22
23	20/1	1/2	1/2	1/2	SPACE	0	0	---	---	---	---	20/1	24
25	20/1	1/2	1/2	1/2	SPACE	0	0	---	---	---	---	20/1	26
27	20/1	1/2	1/2	1/2	SPACE	0	0	---	---	---	---	20/1	28
29	20/1	1/2	1/2	1/2	SPACE	0	0	---	---	---	---	20/1	30
WIRE/CONDUIT KEY						WIRING TYPE	INSULATION	CONDUIT TYPE	TEMP RATING	10316 8696 7100 PEAK PHASE (B) UNBALANCED NEUTRAL LOAD AMPS = 30. AMPS NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 72.5 AMPS			
1234						C-CU WIRE	H-THWN	A-EMT	L-78-86 Deg. F.	26,112			
1234						CONDUIT TYPE	INSULATION	CONDUIT TYPE	TEMP RATING	PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001 REGISTERED TO - TODD W. CAREY AND ASSOCIATES OF THE CAROLINAS, PA			

PANEL NOTES:  
\* - PROVIDE LOCK-IN CLIPS FOR THIS BREAKER

CIRCUIT BREAKER PANEL SCHEDULE R													
100 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 10000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 1 ENCLOSURE													
BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	WIRE AND CONDUIT				BKR.			
	COND.	NEUTRAL	COND.	C. KEYS		COND.	NEUTRAL	COND.	C. KEYS				
1	20/1	1/2	1/2	1/2	RM 315 LIGHTING	255	255	---	---	---	---	20/1	2
3	20/1	1/2	1/2	1/2	RM 315 BATHROOM OUTLET	180	180	---	---	---	---	20/1	4
5	20/1	1/2	1/2	1/2	RM 315 RECEPTACLES	720	720	---	---	---	---	20/1	6
7	20/1	1/2	1/2	1/2	RM 315 COUNTER OUTLET	180	180	---	---	---	---	20/1	8
9	20/1	1/2	1/2	1/2	RM 315 REFRIG/MICROWAVE	1700	1700	---	---	---	---	20/1	10
11	20/2	1/2	1/2	1/2	RM 315 HVAC UNIT	0	1000	---	---	---	---	20/2	12
13	20/1	1/2	1/2	1/2	RM 315 WHIRLPOOL TUB -GT	1581	1581	---	---	---	---	20/1	16
15	20/1	1/2	1/2	1/2	RM 315 LIGHTING	255	255	---	---	---	---	20/1	18
17	20/1	1/2	1/2	1/2	RM 315 BATHROOM OUTLET	180	180	---	---	---	---	20/1	20
19	20/1	1/2	1/2	1/2	RM 315 RECEPTACLES	720	720	---	---	---	---	20/1	22
21	20/1	1/2	1/2	1/2	RM 315 COUNTER OUTLET	180	180	---	---	---	---</		

PANEL A DIVERSIFICATION CALCULATIONS	
RECEPTACLES (8) - 1440 VA TOTAL	1440
FIRST 10 KVA AT 100% -	2024
HYAC LOAD AT 100% -	2288
MOTOR LOADS AT 100% -	572
PLUS 25% OF THE LARGEST MOTOR -	1294
MISC NON-CONTINUOUS LOADS AT 100% -	5718
TOTAL DIVERSIFIED PANEL LOAD -	159.2A

PANEL B DIVERSIFICATION CALCULATIONS	
RECEPTACLES (4) - 7200 VA TOTAL	7200
FIRST 10 KVA AT 100% -	1350
HYAC LOAD AT 100% -	12000
MOTOR LOADS AT 100% -	450
PLUS 25% OF THE LARGEST MOTOR -	19
MISC NON-CONTINUOUS LOADS AT 100% -	10200
TOTAL DIVERSIFIED PANEL LOAD -	3199
LOAD AT 120/208V/3-PHASE/4-WIRE -	87.2A

PANEL C DIVERSIFICATION CALCULATIONS	
RECEPTACLES (40) - 7200 VA TOTAL	7200
FIRST 10 KVA AT 100% -	1350
HYAC LOAD AT 100% -	12000
MOTOR LOADS AT 100% -	450
PLUS 25% OF THE LARGEST MOTOR -	19
MISC NON-CONTINUOUS LOADS AT 100% -	10200
TOTAL DIVERSIFIED PANEL LOAD -	3121
LOAD AT 120/208V/3-PHASE/4-WIRE -	86.7A

PANEL D DIVERSIFICATION CALCULATIONS	
RECEPTACLES (40) - 7200 VA TOTAL	7200
FIRST 10 KVA AT 100% -	1350
HYAC LOAD AT 100% -	12000
MOTOR LOADS AT 100% -	450
PLUS 25% OF THE LARGEST MOTOR -	19
MISC NON-CONTINUOUS LOADS AT 100% -	10200
TOTAL DIVERSIFIED PANEL LOAD -	2826
LOAD AT 120/208V/3-PHASE/4-WIRE -	82.8A

CIRCUIT BREAKER PANEL SCHEDULE H																	
100 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 10000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 1 ENCLOSURE																	
BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	WIRE AND CONDUIT				BKR.							
	COND.	NEUTRAL	GND	C. KEYS		COND.	NEUTRAL	GND	C. KEYS								
1	20/1	#12	#12	1/2	CHAL	RM 214 LIGHTING	255	255	-----	RM 222 LIGHTING	CHAL	1/2	#12	#12	20/1	2	
3	20/1	#12	#12	1/2	CHAL	RM 214 BATHROOM OUTLET	180	180	-----	RM 222 BATHROOM OUTLET	CHAL	1/2	#12	#12	20/1	4	
5	20/1	#12	#12	1/2	CHAL	RM 214 RECEPTACLES	720	720	-----	RM 222 RECEPTACLES	CHAL	1/2	#12	#12	20/1	6	
7	20/1	#12	#12	1/2	CHAL	RM 214 COUNTER OUTLET	180	180	-----	RM 222 COUNTER OUTLET	CHAL	1/2	#12	#12	20/1	8	
9	20/1	#12	#12	1/2	CHAL	RM 214 REFRIG/MICROWAVE	1700	1700	-----	RM 225 REFRIG/MICROWAVE	CHAL	1/2	#12	#12	20/1	10	
11	20/2	#12	---	1/2	CHAL	RM 214 HVAC UNIT	0	0	-----	RM 222 HVAC UNIT	CHAL	1/2	#12	---	#12	20/2	12
13	20/1	#12	#12	1/2	CHAL	RM 218 LIGHTING	255	255	-----	RM 225 LIGHTING	CHAL	1/2	#12	#12	20/1	16	
15	20/1	#12	#12	1/2	CHAL	RM 218 BATHROOM OUTLET	180	180	-----	RM 225 BATHROOM OUTLET	CHAL	1/2	#12	#12	20/1	18	
17	20/1	#12	#12	1/2	CHAL	RM 218 RECEPTACLES	900	900	-----	RM 225 RECEPTACLES	CHAL	1/2	#12	#12	20/1	20	
19	20/1	#12	#12	1/2	CHAL	RM 218 COUNTER OUTLET	180	180	-----	RM 225 COUNTER OUTLET	CHAL	1/2	#12	#12	20/1	22	
21	20/1	#12	#12	1/2	CHAL	RM 218 REFRIG/MICROWAVE	1700	1700	-----	RM 225 REFRIG/MICROWAVE	CHAL	1/2	#12	#12	20/1	24	
23	20/2	#12	---	1/2	CHAL	RM 218 HVAC UNIT	0	0	-----	RM 225 HVAC UNIT	CHAL	1/2	#12	---	#12	20/2	26
25	20/1	#12	#12	1/2	CHAL	RM 220 LIGHTING	255	255	-----	RM 223 LIGHTING	CHAL	1/2	#12	#12	20/1	30	
27	20/1	#12	#12	1/2	CHAL	RM 220 BATHROOM OUTLET	180	180	-----	RM 223 BATHROOM OUTLET	CHAL	1/2	#12	#12	20/1	32	
29	20/1	#12	#12	1/2	CHAL	RM 220 RECEPTACLES	900	900	-----	RM 223 RECEPTACLES	CHAL	1/2	#12	#12	20/1	34	
31	20/1	#12	#12	1/2	CHAL	RM 220 COUNTER OUTLET	180	180	-----	RM 223 COUNTER OUTLET	CHAL	1/2	#12	#12	20/1	36	
33	20/1	#12	#12	1/2	CHAL	RM 220 REFRIG/MICROWAVE	1700	1700	-----	RM 223 REFRIG/MICROWAVE	CHAL	1/2	#12	#12	20/1	38	
35	20/2	#12	---	1/2	CHAL	RM 220 HVAC UNIT	0	0	-----	RM 223 HVAC UNIT	CHAL	1/2	#12	---	#12	20/2	40
37	20/2	#12	---	1/2	CHAL	RM 220 HVAC UNIT	0	0	-----	RM 223 HVAC UNIT	CHAL	1/2	#12	---	#12	20/2	42
WIRE/CONDUIT KEY WIRING TYPE INSULATION CONDUIT TYPE TEMP RATING																	
1234 1234 C-CU WIRE H-THWN A-EMT L-78-86 Deg. F. 10250 10250 10250 PEAK PHASE (A) UNBALANCED NEUTRAL LOAD AMPS = 52.1 AMPS																	
NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 85.4 AMPS																	
PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001 REGISTERED TO - TODD W. CAREY AND ASSOCIATES OF THE CAROLINAS, PA																	

CIRCUIT BREAKER PANEL SCHEDULE D																	
100 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 10000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 3R ENCLOSURE																	
BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	WIRE AND CONDUIT				BKR.							
	COND.	NEUTRAL	GND	C. KEYS		COND.	NEUTRAL	GND	C. KEYS								
1	3/20/3	#12	---	1/2	CHAL	CONDENSING UNIT #1	0	1368	-----	CONDENSING UNIT #4	CHAL	1/2	#12	---	#12	20/3	2
5	3/20/3	#12	---	1/2	CHAL	CONDENSING UNIT #2	0	1176	-----	CONDENSING UNIT #5	CHAL	1/2	#12	---	#12	20/3	10
9	3/20/3	#10	---	1/2	CHAL	CONDENSING UNIT #3	0	1800	-----	CONDENSING UNIT #6	CHAL	1/2	#12	---	#12	20/2	16
13	3/20/3	#10	---	1/2	CHAL	CONDENSING UNIT #3	0	1800	-----	CONDENSING UNIT #6	CHAL	1/2	#12	---	#12	20/2	16
17	3/20/3	#10	---	1/2	CHAL	CONDENSING UNIT #3	0	1800	-----	CONDENSING UNIT #6	CHAL	1/2	#12	---	#12	20/2	16
19	3/20/3	#10	---	1/2	CHAL	CONDENSING UNIT #3	0	1800	-----	CONDENSING UNIT #6	CHAL	1/2	#12	---	#12	20/2	16
21	3/20/3	#10	---	1/2	CHAL	CONDENSING UNIT #3	0	1800	-----	CONDENSING UNIT #6	CHAL	1/2	#12	---	#12	20/2	16
23	3/20/3	#10	---	1/2	CHAL	CONDENSING UNIT #3	0	1800	-----	CONDENSING UNIT #6	CHAL	1/2	#12	---	#12	20/2	16
25	3/20/3	#10	---	1/2	CHAL	CONDENSING UNIT #3	0	1800	-----	CONDENSING UNIT #6	CHAL	1/2	#12	---	#12	20/2	16
27	3/20/3	#10	---	1/2	CHAL	CONDENSING UNIT #3	0	1800	-----	CONDENSING UNIT #6	CHAL	1/2	#12	---	#12	20/2	16
29	3/20/3	#10	---	1/2	CHAL	CONDENSING UNIT #3	0	1800	-----	CONDENSING UNIT #6	CHAL	1/2	#12	---	#12	20/2	16
WIRE/CONDUIT KEY WIRING TYPE INSULATION CONDUIT TYPE TEMP RATING																	
1234 1234 C-CU WIRE H-THWN A-EMT L-78-86 Deg. F. 8339 8339 8304 PEAK PHASE (C) UNBALANCED NEUTRAL LOAD AMPS = 8.2 AMPS																	
NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 69.4 AMPS																	
PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001 REGISTERED TO - TODD W. CAREY AND ASSOCIATES OF THE CAROLINAS, PA																	

CIRCUIT BREAKER PANEL SCHEDULE A																	
200 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 22000 AMPS MINIMUM A.I.C. BRACING, FLUSH MOUNTED, TYPE NEMA 1 ENCLOSURE																	
BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	WIRE AND CONDUIT				BKR.							
	COND.	NEUTRAL	GND	C. KEYS		COND.	NEUTRAL	GND	C. KEYS								
1	40/2	#8	---	1/2	CHAL	AIR HANDLING UNIT #1	0	2916	-----	AIR HANDLING UNIT #1	CHAL	1/2	#12	---	#12	20/3	2
5	50/2	#8	---	1/2	CHAL	AIR HANDLING UNIT #2	0	3962	-----	AIR HANDLING UNIT #2	CHAL	1/2	#12	---	#12	20/3	6
9	50/2	#8	---	1/2	CHAL	AIR HANDLING UNIT #3	0	3991	-----	AIR HANDLING UNIT #3	CHAL	1/2	#12	---	#12	20/3	10
11	20/1	#12	#12	1/2	CHAL	AUTOMATIC DOOR OPERATOR	1000	1000	-----	AUTOMATIC DOOR OPERATOR	CHAL	1/2	#12	---	#12	20/1	12
15	20/1	#12	#12	1/2	CHAL	AUTOMATIC DOOR OPERATOR	1000	1000	-----	AUTOMATIC DOOR OPERATOR	CHAL	1/2	#12	---	#12	20/1	16
17	20/1	#12	#12	1/2	CHAL	PANTRY REFRIGERATOR	900	900	-----	PANTRY REFRIGERATOR	CHAL	1/2	#12	---	#12	20/1	18
19	20/1	#12	#12	1/2	CHAL	PANTRY REFRIGERATOR	900	900	-----	PANTRY REFRIGERATOR	CHAL	1/2	#12	---	#12	20/1	20
21	20/1	#12	#12	1/2	CHAL	PANTRY FREEZER	1500	1500	-----	PANTRY FREEZER	CHAL	1/2	#12	---	#12	20/1	22
23	20/1	#12	#12	1/2	CHAL	PANTRY COUNTER OUTLETS	360	360	-----	PANTRY COUNTER OUTLETS	CHAL	1/2	#12	---	#12	20/1	24
25	20/1	#12	#12	1/2	CHAL	PANTRY COUNTER OUTLETS	360	360	-----	PANTRY COUNTER OUTLETS	CHAL	1/2	#12	---	#12	20/1	26
27	20/1	#12	#12	1/2	CHAL	PANTRY COUNTER OUTLETS	360	360	-----	PANTRY COUNTER OUTLETS	CHAL	1/2	#12	---	#12	20/1	28
29	20/2	#12	---	1/2	CHAL	PANTRY HVAC UNIT	0	1500	-----	PANTRY HVAC UNIT	CHAL	1/2	#12	---	#12	20/2	30
31	30/2	#10	---	1/2	CHAL	EMPLOYEE BREAK HVAC UNIT	0	2975	-----	EMPLOYEE BREAK HVAC UNIT	CHAL	1/2	#12	---	#12	20/2	32
33	20/1	#12	#12	1/2	CHAL	VENDING MACHINE	1000	1000	-----	VENDING MACHINE	CHAL	1/2	#12	---	#12	20/1	34
35	20/1	#12	#12	1/2	CHAL	VENDING MACHINE	1000	1000	-----	VENDING MACHINE	CHAL	1/2	#12	---	#12	20/1	36
37	20/1	#12	#12	1/2	CHAL	VENDING MACHINE	1000	1000	-----	VENDING MACHINE	CHAL	1/2	#12	---	#12	20/1	38
39	20/1	#12	#12	1/2	CHAL	VENDING MACHINE	1000	1000	-----	VENDING MACHINE	CHAL	1/2	#12	---	#12	20/1	40
41	20/1	#12	#12	1/2	CHAL	VENDING MACHINE	1000	1000	-----	VENDING MACHINE	CHAL	1/2	#12	---	#12	20/1	42
WIRE/CONDUIT KEY WIRING TYPE INSULATION CONDUIT TYPE TEMP RATING																	
1234 1234 C-CU WIRE H-THWN A-EMT L-78-86 Deg. F. 18724 18308 18970 PEAK PHASE (A) UNBALANCED NEUTRAL LOAD AMPS = 42.8 AMPS																	
NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 155.6 AMPS																	
PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001 REGISTERED TO - TODD W. CAREY AND ASSOCIATES OF THE CAROLINAS, PA																	

PANEL F DIVERSIFICATION CALCULATIONS	
RECEPTACLES (40) - 7200 VA TOTAL	7200
FIRST 10 KVA AT 100% -	1350
HYAC LOAD AT 100% -	12000
MOTOR LOADS AT 100% -	450
PLUS 25% OF THE LARGEST MOTOR -	19
MISC NON-CONTINUOUS LOADS AT 100% -	10200
TOTAL DIVERSIFIED PANEL LOAD -	3179
LOAD AT 120/208V/3-PHASE/4-WIRE -	88.2A

PANEL G DIVERSIFICATION CALCULATIONS	
RECEPTACLES (41) - 7200 VA TOTAL	7200
FIRST 10 KVA AT 100% -	1350
HYAC LOAD AT 100% -	12000
MOTOR LOADS AT 100% -	450
PLUS 25% OF THE LARGEST MOTOR -	19
MISC NON-CONTINUOUS LOADS AT 100% -	10200
TOTAL DIVERSIFIED PANEL LOAD -	3199
LOAD AT 120/208V/3-PHASE/4-WIRE -	87.2A

PANEL H DIVERSIFICATION CALCULATIONS	
RECEPTACLES (39) - 7200 VA TOTAL	7200
FIRST 10 KVA AT 100% -	1350
HYAC LOAD AT 100% -	12000
MOTOR LOADS AT 100% -	450
PLUS 25% OF THE LARGEST MOTOR -	19
MISC NON-CONTINUOUS LOADS AT 100% -	10200
TOTAL DIVERSIFIED PANEL LOAD -	3109
LOAD AT 120/208V/3-PHASE/4-WIRE -	86.2A

PANEL I DIVERSIFICATION CALCULATIONS	
RECEPTACLES (39) - 7200 VA TOTAL	7200
FIRST 10 KVA AT 100% -	1350
HYAC LOAD AT 100% -	12000
MOTOR LOADS AT 100% -	450
PLUS 25% OF THE LARGEST MOTOR -	19
MISC NON-CONTINUOUS LOADS AT 100% -	10200
TOTAL DIVERSIFIED PANEL LOAD -	3109
LOAD AT 120/208V/3-PHASE/4-WIRE -	86.2A

CIRCUIT BREAKER PANEL SCHEDULE H													
100 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 10000 AMPS MINIMUM A.I.C. BRACING,													

