PANEL SCHEDULE

PANEL: MCC
LOCATION: CORRIDOR 109
FEEDER SOURCE: ENTERGY

VOLTAGE: 208/120V, 400A, 3Ø, 4W (V/MB); 22KIG
ENCLOSURE: FLUSH MOUNTED W/ EQUIPMENT GND BAR SQ D TYPE QO LOAD CENTER

CKT NO	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (kva)	AØ BØ CØ	LOAD (kva)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT NO
1					11.9		12.3					2
3	2/0	AHU-1 (20 TON) **	150	3	11.9		12.3	3	110	** CU-1 (20 TON)	#1	4
5					11.9		12.3					6
7					1.0		1.1					8
9	#12	AHU-2 (2 TON) **	15	2	1.0		1.1	2	15	** CU-2 (2 TON)	#12	10
11					1.0		1.7					12
13	#12	AHU-3 (2-1/2 TON) **	15	2	1.0		1.7	2	25	** CU-3 (2-1/2 TON)	#10	14
15					1.0		3.4					16
17	#12	AHU-5 (5 TON) **	15	2	1.0		3.4	2	50	** CU-5 (5 TON)	#6	18
19	#10	5.5 kw BAPTISTRY HEATER **	30	2	2.7		0.6	1	15	** HOOD CONTROLLER	#12	20
21					2.7		1.8	1	25	** KSF-1; SHUNT TRIP; ROUTE THRU HOOD CONTROLLER	#12	22
23	#10	BAPTISTRY HEATER CIRCULATION PUMP **	20	1	1.6		1.3	1	20	** KEF-1; SHUNT TRIP; ROUTE THRU HOOD CONTROLLER	#12	24
25	#10	CLOTHES DRYER	30	2	2.5		0.5	1	20	WASHING MACHINE	#12	26
27					2.5		-	1	20	SPARE	-	28
29	-	SPARE	20	1	-		-	1	20	SPARE	-	30
31	-	SPARE	20	1	-		-	1	20	SPARE	-	32
33	-	SPARE	20	1	-		-	1	20	SPARE	-	34
35	-	SPARE	20	1	-		-	1	20	SPARE	-	36
37	-	SPARE	20	1	-		6.5					38
39	-	SPARE	20	1	-		3.2	3	100	LP2	-	40
41	-	SPARE	20	1	-		5.4					42

SOLID NEUTRAL / NEUTRAL WIRE (N)

TOTAL CONNECTED LOAD (kva) = 140.1

AØ = 47.8 | BØ = 46.9 | CØ = 45.6

GROUND BUS / GROUND WIRE (G)

** INSTALL BREAKER TO MATCH EQUIPMENT INSTALLED

PANEL SCHEDULE

PANEL: LP2
LOCATION: CORRIDOR 109
FEEDER SOURCE: MCC

VOLTAGE: 208/120V, 100A, 3Ø, 4W (V/MLO); 10KIG
ENCLOSURE: FLUSH MOUNTED W/ EQUIPMENT GND BAR SQ D TYPE QO LOAD CENTER

CKT NO	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (kva)	AØ BØ CØ	LOAD (kva)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT NO
1	#12	ADMIN OFFICE 110	20	1	1.1		0.5	1	20	SOUND CLOSET 114; DEDICATED	#12	2
3	#12	PASTOR OFFICE 117	20	1	0.7		0.5	1	20	SOUND CLOSET 114; DEDICATED	#12	4
5	#12	KITCHEN, MICROWAVE	20	1	1.5		0.5	1	20	SOUND CLOSET 114; DEDICATED	#12	6
7	#12	KITCHEN, ICE MACHINE	20	1	1.5		1.5	1	20	KITCHEN OUTLETS	#12	8
9	#12	SPARE	20	1	-		1.5	1	20	KITCHEN REFRIGERATOR	#12	10
11	#12	KITCHEN, FREEZER	20	1	1.5		0.5	1	20	CHOIR	#12	12
13	#12	STAGE RIGHT	20	1	0.2		0.2	1	20	PULPIT	#12	14
15	#12	STAGE LEFT	20	1	0.2		0.5	1	20	MULTI-PURPOSE RM OUTLETS	#12	16
17	#12	2ND FLR & ATTIC OUTLETS	20	1	0.7		0.7	1	20	MULTI-PURPOSE RM OUTLETS	#12	18
19	#12	LIGHTS	20	1	1.0		1.5	1	20	LIGHTS	#12	20
21	-	SPARE	20	1	-		-	1	20	SPARE	-	22
23	-	SPARE	20	1	-		-	1	20	SPARE	-	24
25		SPACE								SPACE		26
27		SPACE								SPACE		28
29		SPACE								SPACE		30
31		SPACE								SPACE		32
33		SPACE								SPACE		34
35		SPACE								SPACE		36
37		SPACE								SPACE		38
39		SPACE								SPACE		40
41		SPACE								SPACE		42

SOLID NEUTRAL / NEUTRAL WIRE (N)

TOTAL CONNECTED LOAD (kva) = 15.0

AØ = 6.5 | BØ = 3.2 | CØ = 5.4

GROUND BUS / GROUND WIRE (G)

PANEL SCHEDULE

PANEL: LP1
LOCATION: STORAGE RM 103
FEEDER SOURCE: MDP

VOLTAGE: 208/120V, 100A, 3Ø, 4W (V/MLO); 22KIG
ENCLOSURE: FLUSH MOUNTED W/ EQUIPMENT GND BAR SQ D TYPE QO LOAD CENTER

CKT NO	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (kva)	AØ BØ CØ	LOAD (kva)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT NO
1	#12	AHU-4 (3 TON) **	15	2	1.0		2.0	2	30	** CU-4 (3 TON)	#10	2
3					1.0		2.0					4
5	#10	INSTANT WATER HEATER, WOMENS RESTROOM	30	1	3.4		0.7	1	20	VESTIBULE WATER FOUNTAIN	#12	6
7	#10	INSTANT WATER HEATER, MENS RESTROOM	30	1	3.4		1.3	1	20	OUTLETS	#12	8
9	#12	RESTROOM OUTLETS	20	1	0.7		0.4	1	20	ATTIC & LOFT OUTLETS	#12	10
11	#12	PENDANT LIGHTS IN WORSHIP & 2ND FLR	20	1	1.4		1.0	1	20	LIGHTS	#12	12
13	-	SPARE	20	1	-		-	1	20	SPARE	-	14
15	-	SPARE	20	1	-		-	1	20	SPARE	-	16
17	-	SPARE	20	1	-		-	1	20	SPARE	-	18

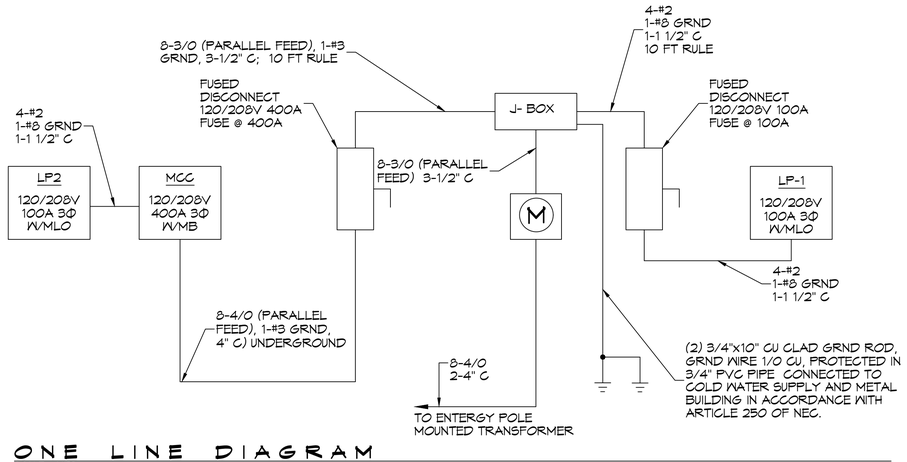
SOLID NEUTRAL / NEUTRAL WIRE (N)

TOTAL CONNECTED LOAD (kva) = 18.3

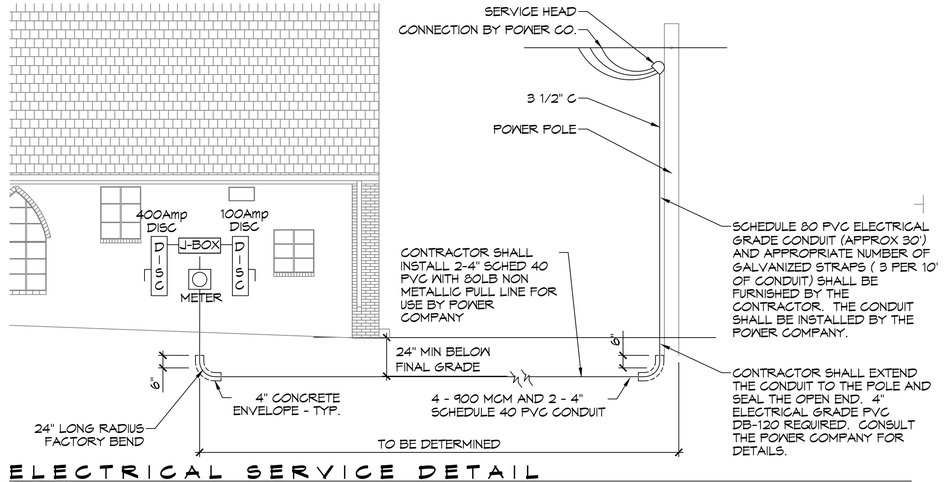
AØ = 7.7 | BØ = 4.1 | BØ = 6.5

GROUND BUS / GROUND WIRE (G)

** INSTALL BREAKER TO MATCH EQUIPMENT INSTALLED



ONE LINE DIAGRAM
SCALE: NTS



ELECTRICAL SERVICE DETAIL
SCALE: NTS

DAMMON ENGINEERING, INC.
LOUISIANA & MISSISSIPPI
Chief Engineer: Brian Wolsch, PE
554 Old Spanish Trail
Slidell, LA 70458
www.dammonengineering.com
info@dammonengineering.com
PH: 985.649.5832

HEWITT WASHINGTON & ASSOCIATES
ARCHITECTS PLANNERS (A PROFESSIONAL CORPORATION)
6900 PLAZA DRIVE, SUITE 206
NEW ORLEANS, LOUISIANA
7 0 1 2 6

THE SIXTH BAPTIST CHURCH
RENOVATION AND ADDITION

928 FELICITY STREET
NEW ORLEANS, LOUISIANA 70130

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SHEET TITLE
CIRCUIT PANELS AND ONE-LINE DIAGRAM

SHEET NO.
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