

PANEL DESIGNATION		NZLVNE	BUS AMPS: 225		MN A.I.C.: 10 KA		MAIN BREAKER:		200A		NOTES:		MSB SHALL BE ISI ELECTRONIC																									
LOCATION		ELEC A128F	PHASE 3		WIRE 4		VOLTAGE		208Y/120				TRIP CIRCUIT BREAKER																									
MOUNTING		SURFACE	FED FROM NZHVNE VIA 75KVA XMR						NEUTRAL SIZE		100%																											
ENCLOSURE:		NEMA 1	LOAD ON ELEC A128F						TOTAL LOSES:		94																											
OKT	FEEDER/BRANCH CIRCUIT	CIRC.	BREAKER	LOAD (KVA)			WIRE			GND.			COND.			COND.			GND.			WIRE			LOAD (KVA)			BREAKER			AMP			CIRC.	FEEDER/BRANCH CIRCUIT	AREA	NO.	OCT
NO	DESCRIPTION	AREA	NOTES	AMP	POLES	A	B	C	NO	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	NO	A	B	C	POLES	AMP	NOTES	DESCRIPTION	AREA	NO.	OCT									
1	PLUMB RESEP	A104		15	1	0.2			2	12	12	3/4	3/4	12	12	2	0.2						1	15		PLUMB RESEP	A105	2										
2	PLUMB RESEP	A110		15	1	0.2			2	12	12	3/4	3/4	12	12	2		0.2					1	15		PLUMB RESEP	A112	3										
3	PLUMB RESEP	A113		15	1		0.2		2	12	12	3/4	3/4	12	12	2			0.2			0.2	1	15		REFRIGRE RESEP	A114	6										
7	PLUMB RESEP	A116		15	1	0.2			2	12	12	3/4	3/4	12	12	2	0.2						1	20		PLUMB RESEP	A117	8										
8	PLUMB RESEP	A118		15	1	0.2			2	12	12	3/4	3/4	12	12	2		0.9					1	20		RESEPS	A132	10										
11	RECIPS	A121		20	1		0.7		2	12	12	3/4	3/4	12	12	2			0.2			0.2	1	15		REFRIGRE RESEP	A137	12										
13	RECIPS	A128F		20	1	0.4			2	12	12	3/4	3/4	12	12	2	0.2									LIGHTING	A101, A102, A104, A105	14										
15	LIGHTING A103,A106,A107,A108,A109	A106		20	1		0.3		2	12	12	3/4	3/4	12	12	2		0.2					1	20		LIGHTING	A110,A111,A112,A113,A114	15										
17	LIGHTING A115,A116,A117,A118,A119	A119		20	1		0.2		2	12	12	3/4	3/4	12	12	2			0.2				1	20		LIGHTING	A121,A122,A123,A124,A125	16										
19	LIGHTING A120,A130,A131,A132,A133	A133		20	1	0.2			2	12	12	3/4	3/4	12	12	2	0.2						0.1	20		LIGHTING	A134,A135, A136, A137	20										
21	LIGHTING A128, A128A, A128B, A128C	A128C		20	1	0.2			2	12	12	3/4	3/4	12	12	2			0.1				1	20		LIGHTING	A128D, A128E, A128F	22										
23	LIGHTING A139, A139A, A140, A143	A143		20	1		0.2		2	12	12	3/4	3/4	12	12	2			0.2			0.2	1	20		LIGHTING	A141, A142, A144, A147	24										
25	LIGHTING A145, A146, A151, A152	A152		20	1	0.2			2	12	12	3/4	3/4	12	12	2	0.2						1	15		PLUMB POWER	A133	26										
27	PLUMB POWER	A135		15	1		0.2		2	12	12	3/4	3/4	12	12	2			0.2				0.2	1	15		PLUMB POWER	A136	28									
29	FAUCET RESEP	A136		15	1		0.2		2	12	12	3/4	3/4	12	12	2										FAUCET RESEP	A135	30										
31	RECIPS	A133		20	1	0.4			2	12	12	3/4	3/4	10	10	3	2.1						2	30		ACQU-1												
33	AHU-1	A135		15	2	0.8			3	12	12	3/4	3/4									2.1				--												
35	--						0.8							3/4	12	12	2					0.3	1	15		EF-101				36								
37	EF-102			15	1	0.3			2	12	12	3/4	3/4	12	12	2	1.7						1	15		EF-103				38								
39	EF-104			15	1	0.3			2	12	12	3/4	3/4	12	12	2		0.7					1	15		EF-105				40								
41	PURH-101			15	1		0.3		2	12	12	3/4	3/4	12	12	2										PURH-102				42								
43	RTU-101			60	3	6.8			4	4	10	1-1/4	1-1/4	10	4	4	6.8						0.3	60		RTU-102				44								
45	--						6.8										6.8								--				46									
47	--						6.8											6.8							--				48									
49	SEF-101			15	3	0.6			4	12	12	3/4	3/4	12	12	2	0.1						1	15		TWV-2-1				50								
51	--						0.6							3/4	12	12	2		0.1				1	15		TWV-2-2				52								
53	--						0.6							3/4	12	12	2					0.1	1	20		LIGHTING	EXTERIOR	54		56								
55	WATER FTRN RESEP	A131		20	1	0.2			2	12	12	3/4	3/4	12	12	2	0.5						1	20		NETWORK RACK				58								
57	SECURITY RACK			20	1	0.5			2	12	12	3/4	3/4	12	12	2		0.5					1	20		DOOR CONTROL RACK				60								
59	DOOR POWER			20	1		0.5		2	12	12	3/4	3/4	12	12	2			0.5				1	20		LIGHTING RELAY PANEL				62								
61	OVERHEAD DOOR			20	1	1.2			2	12	12	3/4	3/4	12	12	2	1.2						1	20		OVERHEAD DOOR				64								
63	FIRE ALARM EXTENDER PANEL			20	1	0.5			2	12	12	3/4	3/4	12	12	2			0.5				1	20		SHOCK CONTROL PANEL				66								
65	GENERATOR RECEPTACLE			20	1		0.2		2	12	12	3/4	3/4	12	12	2			1.0				1	20		GENERATOR BLOCK HEATER				68								
67	ELECTRIC HAND DRYER			15	1	1.1			2	12	12	3/4	3/4	12	12	2	1.6						1	20		LOCKER RECEPTS				70								
69	ELECTRIC HAND DRYER			15	1	1.1			2	12	12	3/4	3/4	12	12	2		1.6					1	20		LOCKER RECEPTS				72								
71	ELECTRIC HAND DRYER			15	1		1.1		2	12	12	3/4	3/4	12	12	2			1.6				1	1	20		LOCKER RECEPTS				74							
73	LOCKER RECEPTS			20	1	1.6			2	12	12	3/4	3/4										0.0	1	20		SPARE				76							
75	SPARE			20	1	0.0																	0.0	1	20		SPARE				78							
77	SPARE			20	1		0.0																0.0	1	20		SPARE				80							
79	SPARE			20	1	0.0								3/4	10	10	4	0.0					3	30		SPD				82								
81	SPARE			20	1	0.0																	0.0			--					84							
83	SPARE			20	1		0.0																0.0			--					86							
SIDE CONNECTED KVA				13	12	12	PANEL CONNECTED KVA				76	15				14	11	SIDE CONNECTED KVA				DERATING FACTOR (80%)				DEMAND LOAD SIZE				183	AMPS							
								PANEL DEMAND KVA				53																										
								PANEL DEMAND FACTOR				89%																										

CONTRACTOR SHALL REPLACE EXISTING SPARE 400A FUSIBLE SWITCH IN SERVICE DISTRIBUTION PANEL WITH 600A FUSIBLE SWITCH; EXISTING PANEL IS A SQUARE D QMB PANEL BOARD

POWER FROM DISTRIBUTION EQUIPMENT AT SERVICE LOCATION

208/120V, 3PH, 4W

BOND SUPPLEMENTAL GROUND TO EQUIPMENT GROUNDING CONDUCTOR FROM SERVICE PANEL WITHIN ENCLOSED BREAKER

2 SETS OF 3 #350, #1 GRD, (2) 3" C AND DUCT BANK

ENCLOSED CIRCUIT BREAKER

600A LSI

GROUND BAR

CONNECT EXISTING BUILDING GROUNDING SYSTEM/WATER PIPING TO GROUND BAR WITH #30 GRD

2 SETS OF 3 #250, #1 GRD, (2) 3" C

XFMR-NZH/V 150KVA 208V 480/277V STEP-UP

4 #10, #6 GRD, 2°C

480/277V, 3PH, 4W 100KW/125KVA STANDBY DIESEL GENERATOR

SEN CB 150A LSI

#10 GRD

1

4 #10, #6 GRD, 2" C AND DUCT BANK

2

3 #6, #10 GRD, 1°C

XFMR 30KVA 480/208/120V

4 #1, #6 GRD, 1-1/2°C

PANEL N2H/V

SPD

PANEL N2LV

ATS-NE 200A

4 #10, #6 GRD, 2°C

TEMPORARY EMERGENCY GENERATOR ATS-TERMINATION BOX COMBINATION UNIT; PROVIDE 200A NEMA 3R ASCO SERIES 300 MTQD OR EQUAL COMBINATION UNIT

4 #10, #6 GRD, 2°C

2

3 #1, #6 GRD, 2°C

XFMR 75KVA 480/208/120V

4 #30, #4 GRD, 2°C

PANEL N2H/VNE

SPD

PANEL N2LVNE

ISSUED FOR BID