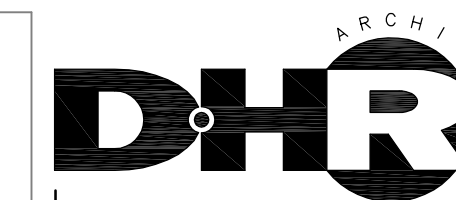
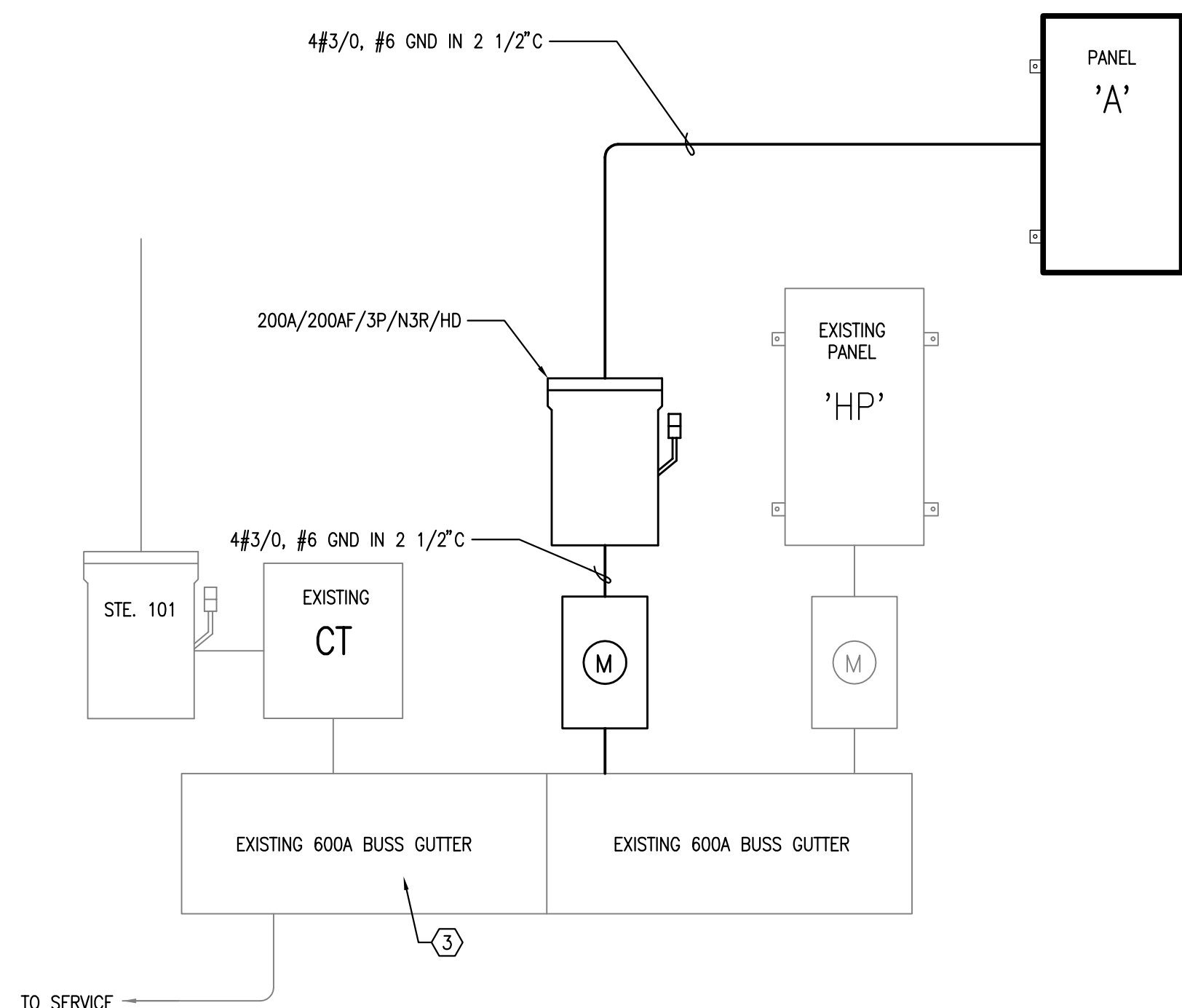




TEXAS REGISTERED  
ENGINEERING FIRM F-10487  
700 N. ST. MARY'S  
SUITE 1225  
SAN ANTONIO, TX 78205  
WWW.RGMENGINEERING.NET  
PHONE: 210.299.4522  
FAX: 210.299.4525



DURAND-HOLLIS RUPE  
ARCHITECTS, INC.  
14603 HUEBNER RD.  
BUILDING 18  
SAN ANTONIO,  
TEXAS 78230  
TEL. 210 308-0080  
FAX. 210 697-3309  
EMAIL OFFICE@DHRARCHITECTS.COM



**1 ONE-LINE RISER DIAGRAM**  
SCALE: NOT TO SCALE

**ELECTRICAL KEYED NOTES:**

- ① PROVIDE 200A FUSES.
- ② 4#4/0, #3 GND IN 2 1/2\"
- ③ CONTRACTOR TO VERIFY BUSS RATING AND REPORT ANY DISCREPANCIES TO ENGINEER IMMEDIATELY.

PANELBOARD SCHEDULE																	
PANEL: NEW PANEL 'A'			PROJECT: SNOPIOCA			MOUNTING: RECESSED			TYPE: BOLT-ON			NOTE: ALL BRANCH CIRCUITS SHALL BE RUN IN EMT CONDUIT FROM PANEL TO DEVICE WHERE CONDUIT SIZE IS NOT INDICATED E.C. MAY COMBINE SIMILAR TYPE CIRCUITS IN LARGER CONDUIT NOT TO EXCEED 40% FILL PER TABLES IN NEC 2008 AND PER TABLE 310.15 (B) (2) (a) FOR CONDUCTOR DERATING WHERE APPLICABLE. ALL OTHER BR. CKTS WITH #12 OR #10 CU. SHALL BE RUN IN 3/4\"					
FED FROM: SERVICE			VOLTAGE: 208 120			BUSSING:			MLO:			MAIN C.B.: 200A					
PH/W/RE: 3 4W			SUB-FEED LUGS:			A.I.C. RATING:			KEY NOTES:								
CONDUIT/CONDUCTORS:																	
CIRCUIT DESCRIPTION	CONDUIT SIZE	COND. SIZE (AWG)	NEUT. SIZE (AWG)	E.G.C. SIZE (AWG)	TYPE LOAD	LOAD VA	CKT BKR	CKT #	CKT #	CKT BKR	LOAD VA	TYPE LOAD	CONDUIT SIZE	COND. SIZE (AWG)	NEUT. SIZE (AWG)	E.G.C. SIZE (AWG)	CIRCUIT DESCRIPTION
RCPTS-BACK LOUNGE	3/4"	#10	#10	#12	1	800	20/1	1	2	40/2	3000	6	1"	#8	#8	#10	ELECTRIC WATERHEATER
KEF-1	3/4"	#10	#10	#12	8	1700	25/1	3	4		3000	6		#8			
MAU-1	3/4"	#10	#10	#12	8	900	20/1	5	6	20/1	1760	8	3/4"	#10	#10	#12	ITEM R CHEST FREEZER
ITEM S- CHEST FREEZER	3/4"	#10	#10	#12	1	1200	20/1	7	8	20/1	1000	8	3/4"	#10	#10	#12	ITEM W COFFEE GRINDER
SPARE							20/1	9	10	20/1	1000	8	3/4"	#10	#10	#12	ITEM XEXPRESSO MACHINE
ITEM S- CHEST FREEZER	3/4"	#10	#10	#12	1	1200	20/1	11	12	40/2	3000	8	3/4"	#10	#10	#12	ITEM Y COFFEE MAKER
SPARE							20/1	13	14		3000	8		#10			
SPARE							20/1	15	16	20/1							ICE VAT
SPARE							20/1	17	18	20/1							ITEM Z DISH WASHER
ITEM Q ICE MACHINE	3/4"	#10	#10	#12	8	1200	20/1	19	20	20/1							SPARE
GFCI-ROOFTOP	3/4"	#10	#10	#12	1	180	20/1	21	22	20/1							SPARE
RTU-1	1"	#10	#10	#12	3	1914		23	24		8822	3	1 1/2"	#2		#8	RTU-2
--					3	1914	25/2	25	26	100/3	8822	3		#2			--
BUSSED SPACE								27	28		8822	3		#2			
BUSSED SPACE								29	30	20/1	1080	8	3/4"	#10	#10	#12	ITEM U COUNTER FRIDGE
RCPTS-BOOTHS	3/4"	#10	#10	#12	1	1200	20/1	31	32	20/1	600	1	3/4"	#10	#10	#12	RCPTS - BOOTHS/COUNTER
RCPTS-BOOTHS	3/4"	#10	#10	#12	1	1200	20/1	33	TM	20/1							SPARE
RCPTS-POS	3/4"	#10	#10	#12	1	1200	20/1	35	36	20/1	1000	2	3/4"	#10	#10	#12	LIGHTS - DISPLAY AREA
LIGHTS - BACK AREA	3/4"	#10	#10	#12	2	1000	20/1	37	38	20/1	1200	1	3/4"	#10	#10	#12	ITEM O UC REFRIGERATOR
ITEM N UC FRIG.	3/4"	#10	#10	#12	1		20/1	39	40	20/1	800	1	3/4"	#10	#10	#12	ITEM V' SALAD PREP TABLE
ITEM V' SALAD PREP TABLE	3/4"	#10	#10	#12	1	800	20/1	41	42	20/1							SPARE
CONNECTED LOADS SUMMARY					VA/PH	AMPS/PH	PANELBOARD LOAD COMPUTATIONS - LOAD SUMMARY										
PHASE 'A'					24936	208	TYPE	LOAD DESCRIPTION	SUB FEED	KVA	D.F.	DEMAND LOAD (KVA)					
PHASE 'B'					16702	139	1	1 RECEPTACLES	0.00	10.38	NOTE 1	10.2					
PHASE 'C'					21676	181	2	2 LIGHTING	0.00	2.00	125%	2.5					
TOTALS					63314	176	3	3 AIR CONDITIONING	0.00	30.29	100%	30.3					
PANELBOARD LOAD ANALYSIS					KVA	AMPS	4	4 ELECTRIC HEATING	0.00	0.00	100%	0.0					
1. TOTAL NEC DEMAND LOAD					58.50	162.3	5	5 MOTORS	0.00	0.00	100%	0.0					
2. ADD LARGEST MOTOR (25%)					0.00	0.0	6	6 ELECT WATER HTG.	0.00	6.00	100%	6.0					
3. ADD LIGHTING PER VASF (SEE NOTE 2)					0.00	0.0	7	7 ELEVATOR	0.00	0.00	100%	0.0					
4. SUB-TOTAL LOAD					58.50	162.3	8	8 KITCHEN EQUIP.	0.00	14.64	65%	9.5					
5. NOT USED							9	9 MISCELLANEOUS	0.00	0.00	100%	0.0					
6. TOTAL NEC LOAD WITH FUTURE LOAD					58.50	162.3	10	10 EXT. LIGHTING	0.00	0.00	125%	0.0					
LOAD ANALYSIS NOTES AND PANELBOARD TYPICAL NOTES:							TOTAL KVA										
1. REFER TO THE TYPICAL LOAD ANALYSIS NOTES ON THIS DRAWING SHEET.							0.00										
2. REFER TO THE TYPICAL PANELBOARD KEYED NOTES ON THIS DRAWING SHEET.							TOTAL AMPERES										
							0.0										
							175.7										
							162.3										

BUILDING LOAD ANALYSIS				
120/208V, 3PHASE				
	AREA	SQFT	WATTS/	
			KVA	AMPS
TENANT 1			72	200
HOUSE PANEL			15	42
NEW TENANT			59	164
TOTAL				
SERVICE SIZE, AMPS			600	
SPARE CAPACITY			194	

**ELECTRICAL ONE LINE RISER DIAGRAM**

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY:  
ROGER B. MENDEZ, P.E. 93809  
ON 04/01, 2016



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ISSUE DATE: 04-01-16  
DRAWN BY: RGM  
REVIEWED BY: RGM  
PROJECT ARCHITECT:  
GABRIEL DURAND-HOLLIS, FAIA  
TEXAS LICENSE NO. 10881

**E201**

FILE NAME: 16-000 E201 Electrical One Line Riser Diagram.dwg  
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