PANEL: A

MAINS: 150 MLO	VOLTAGE: 120/240	WIRE: 3	MOUNTING: FLUSH
BUS: 225 A	PHASE: 1	AIC: 10 kA	ENCLOSURE: NEMA 1

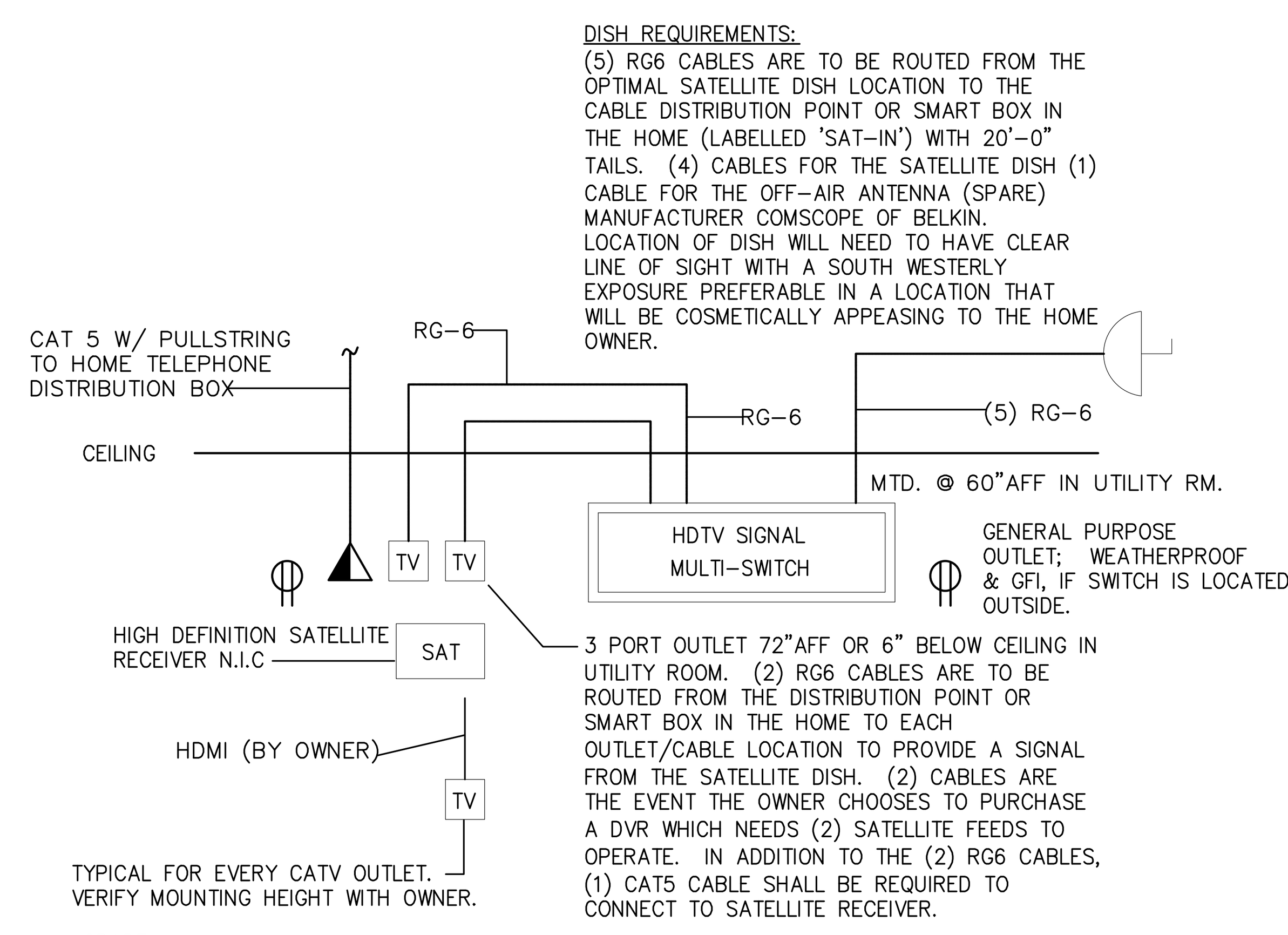
CKT #	TRIP POLE	LOAD TYPE	DESCRIPTION	AWG COND.	NOTE	CONNECTED LOAD KVA: KVA	PH A	PH B	KVA	NOTE	AWG COND.	DESCRIPTION	LOAD TYPE	TRIP POLE	CKT #
1	60	F	AHU-1	#6-1"	1,3,5,6	4.2	4.9		0.7	1,4	#12-3/4"	GWH	E	20/1	2
3	2	F	↓			4.2		4.2		1,2	#12-3/4"	EXTERIOR RECEPTS	A	20/1	4
5	20/1	A	MASTER BR LTS & RECS	#12-3/4"	1,2		0.3		0.3	1,4	#12-3/4"	RECIRC. PUMP	E	20/1	6
7	20/1	A	BALCONY LTS & RECS	#12-3/4"	1,2					1,2	#12-3/4"	GARAGE LTS / RECS	A	20/1	8
9	20/1	A	HALL/BATH LTS	#12-3/4"	1,2		1.0		1.0	1,4	#12-3/4"	GARAGE DOOR OPENER	E	20/1	10
11	20/1	A	MASTER BATH RECS	#12-3/4"	1,2					1,2	#12-3/4"	FOYER BATHROOM	A	20/1	12
13	20/1	A	LOFT LTS & RECS	#12-3/4"	1,2					1,2	#12-3/4"	FOYER LTS/RECS	A	20/1	14
15	20/1	A	BEDROOM LTS & RECS	#12-3/4"	1,2					1,2	#12-3/4"	KITCHEN/PANTRY	A	20/1	16
17	20/1	A	BEDROOM LTS & RECS	#12-3/4"	1,2		1.2		1.2	1	#12-3/4"	REFRIGERATOR	B	20/1	18
19	20/1	A	BATHROOM LTS	#12-3/4"	1,2			1.5	1.5	1	#12-3/4"	KITCHEN APPLIANCE	B	20/1	20
21	20/1	A	BATHROOM RECS	#12-3/4"	1,2		1.5		1.5	1	#12-3/4"	KITCHEN APPLIANCE	B	20/1	22
23	20/1	C	WASHER	#12-3/4"	1,4	1.0		2.5	1.5	1	#12-3/4"	KITCHEN APPLIANCE	B	20/1	24
25	30	C	DRYER	#10-3/4"	1,4	1.5	3.0		1.5	1	#12-3/4"	KITCHEN APPLIANCE	B	20/1	26
27	2	C	↓			1.5		3.0	1.5	1	#12-3/4"	KITCHEN APPLIANCE	B	20/1	28
29			SPACE				4.8		4.8	1,4	#8-1"	RANGE	C	50	30
31			SPACE					4.8	4.8			↓	C	2	32
33			SPACE				1.5		1.5	1	#12-3/4"	KITCHEN APPLIANCE	B	20/1	34
35			SPACE					1.0	1.0	1,4	#12-3/4"	DISHWASHER	C	20/1	36
37			SPACE				0.5		0.5	1,4	#12-3/4"	DISPOSAL	C	20/1	38
39			SPACE							1,2	#12-3/4"	DINING/LIVING LTS	A	20/1	40
41			SPACE							1,2	#12-3/4"	DINING/LIVING RECS	A	20/1	42
						Total Connected Load	18.7	17.0	18.7 + 17.0 + 9.0 = 44.7 KVA						
FEEDER SIZE:			REFER TO ONELINE RISER ON SHEET E-5						LOCATION:						

NOTES:

1 PROVIDE AFCI CIRCUIT BREAKER TYPE
2 CIRCUIT LOAD CALCULATED BY NEC 220.82(B)(1)
3 PROVIDE TIE-HANDLE TO BOTH BREAKERS.
4 REFER TO MANUFACTURER'S REQUIREMENTS PRIOR TO INSTALLING DISCONNECTS, OUTLETS, BREAKERS, WIRING, ETC.
5 NON-CONCURRENT LOAD. CONTROLLED VIA THERMOSTAT
6 PROVIDE HACR CIRCUIT BREAKERS.
7 LAUNDRY CIRCUIT (1500VA MAX)
8 LIGHTING CONTROLLED VIA TIMECLOCK.

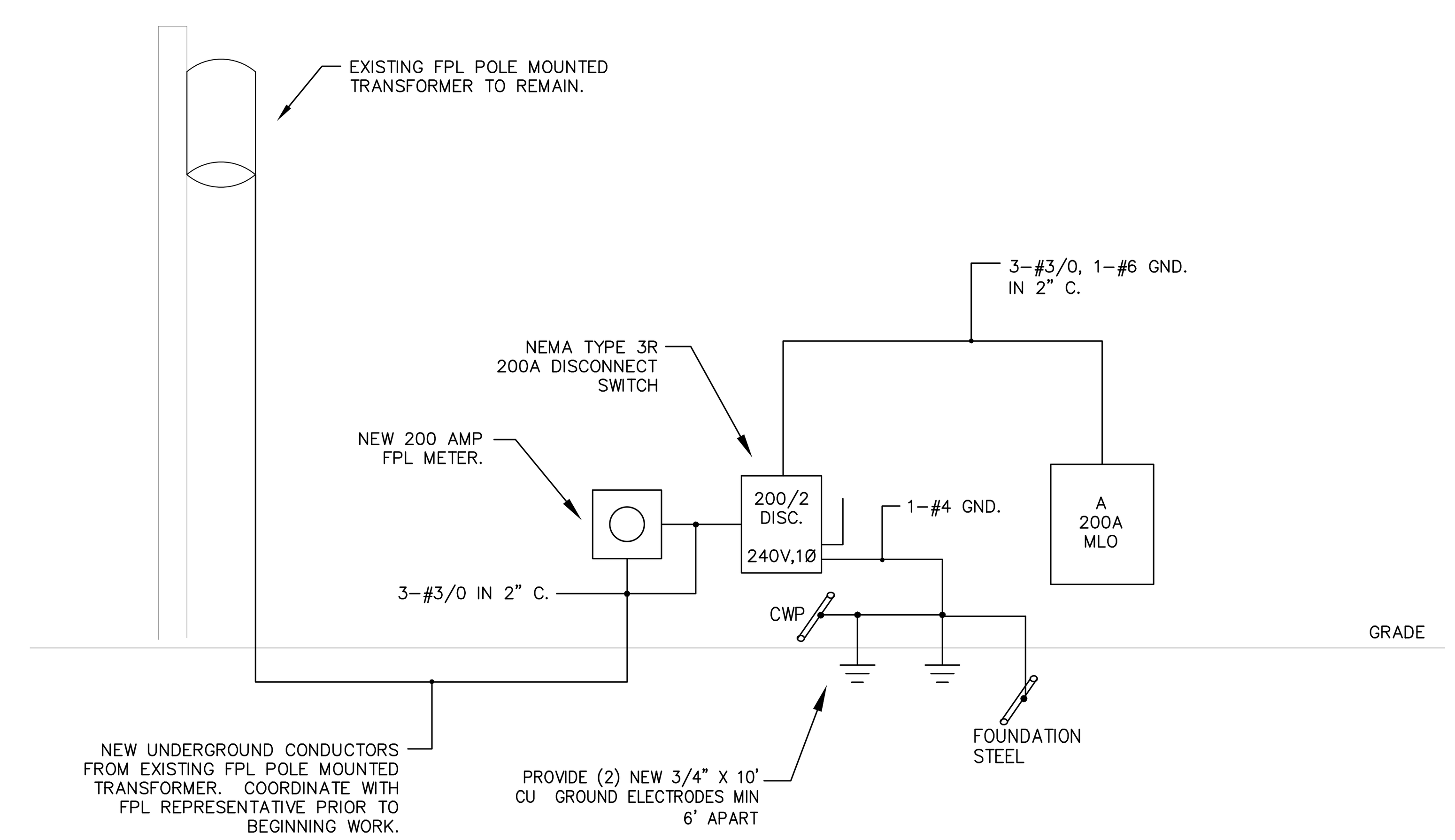
LOAD CALCULATION FOR UNIT TYPE "A"
(PER NEC 220.82)
UNIT AREA: 2677

		KVA
PART B		
A	GENERAL LTG & RECEPT LOAD @3 VA/SQFT	**9.0**
B	KITCHEN APPLIANCE	10.2
C	PERMANENTLY CONNECTED APPLIANCES	15.1
D	MOTOR LOADS (FCU MOTOR /WITHOUT HEAT)	0.0
E	MISC	2.0
TOTAL PART B		36.3
PART C		
F	A/C	8.4
G	HEAT	0.0
TOTAL PART C		8.4
Demand Load		
Part B	1st 10KVA @ 100%	10.0
	Remainder @ 40%	10.5
Part C	@100%	8.4
Total Demand Load in Kva		**28.9**
Total Demand Amp at 120/240		**121.0**



Typical Satellite/Cable Riser Diagram

Scale NTS



Typical Electrical Riser Diagram

Scale NTS

robert vick architect, p.a.
architecture planning and design
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hom Townhomes
813 & 815 NE 17th Way, Fort Lauderdale, FL

Designed By:
Drawn By:
Date: 2.6.15
Job No. 1420

E-2

AA # 2916