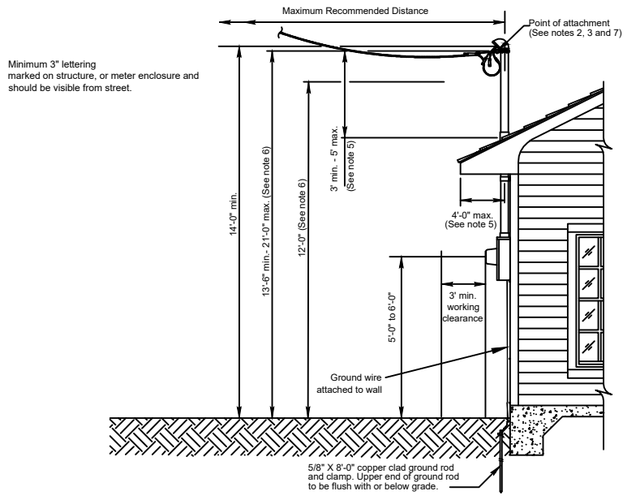
120/240 VOLT SINGLE PHASE 2 WIRE ELECTRICAL SERVICE				
ITEM	CONN. LOAD (VA)	DEMAND F.	DEMAND LOAD (WATTS)	TOTAL (AMPS)
LIGHTING	800	125%	1000	
WATER HEATERS	2000	100%	2000	
EQUIPMENT	2750	65%	1788	
HVAC LOADS	14400	100%	14400	
SUB-TOTAL			19189	
LIFT/COMPRESSOR MOTOR	0	125%	0	
TOTAL @ 120/208 V	19950		19189	54

PANEL SCHEDULE & SERVICE CALCULATION

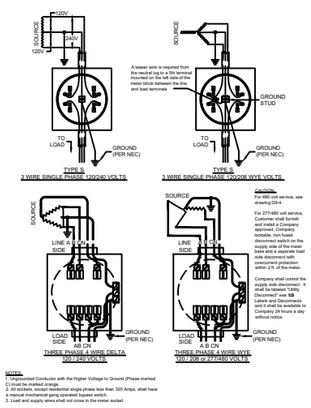
ELECTRICAL PANEL - MAIN												
LOAD SERVED	CKT #	TYPE	BKR TRIP	WIRE SIZE	PHASE A	PHASE B	PHASE C	BKR TRIP	WIRE SIZE	TYPE	CKT #	LOAD SERVED
HVAC	1		60	#6	7200		800	20	#12		2	LIGHTING LOAD
	3		60	#6		7200	2000	100	#10		4	WATER HEATER
REFRIGERATOR	5		20	#12	500		250	30	#10		6	DOUBLE BOWL-SPARE
OVEN	7		20	#12	1000		250	30	#10		8	DOUBLE BOWL-SPARE
CB-1	9		20	#12	250		1000	20	#12		10	COFFEE MAKER/TOASTER
TOTAL VA PHASE A					8950							8950
TOTAL VA PHASE B						7200						7200
TOTAL VA PHASE C							4300					4300
TOTAL VOLT-AMPS												20450
DIVIDE TOTAL VOLT-AMPS BY SYSTEM VOLTAGE (PHASE TO PHASE)					208		AMPS					98
DIVIDE TOTAL AMPS BY THREE PHASE MULTIPLIER					1.734							57
TOTAL CONNECTED LOAD (AMPS) @ 125%					71							
MAIN TYPE AND AMPERE RATING					100 AMP MCCB							

PANEL FEEDER SIZE – SEE RISER DIAGRAM



NOTES:

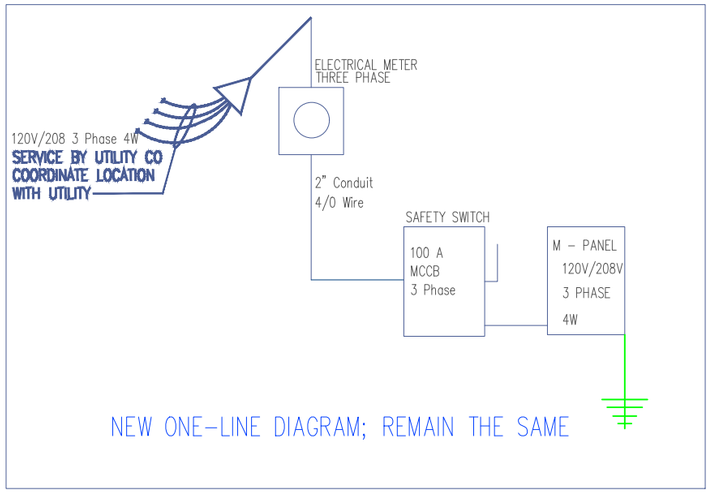
1. 1. Customer facilities must comply with Company Standards, the National Electrical Code (NEC), and all applicable local authorities.
2. 2. The customer is responsible for installing the meter enclosure, conduit, weatherhead, point of attachment, and conductor up to the point of attachment.
3. 3. Each conductor must extend a minimum of 3'-0" from the top of the service mast. The neutral conductor must be marked with white tape at both ends and can be bare.
4. The main breaker should be located within 2'-0" of the meter, preferably on an outside wall.
5. 4. The maximum distance from the fascia to the center of the mast is 4'-0", as per NEC. Only rigid metal or IMC conduit is permitted above the roof. Guying or bracing of the mast may be required; refer to drawing D2-1.
6. 5. Clearance requirements:
7. a. The point of attachment must be accessible to the company's bucket truck or be positioned on a wall or building structure with sufficient ground space.
8. b. Additional height may be required to maintain proper clearance.
9. c. The point of attachment must not exceed a height of 21'.
10. d. A minimum height of 10'-0" to the bottom of the drip loop is required 6. when all traffic under the wire does not exceed a height of 8'-0".
11. 7. No telephone or cable attachments are allowed on the mast (NEC).
12. 8. For any service greater than 200 amps, consult the Company.



Maximum Recommended Distance	
Amps	Length
100	100'
200	75'
320	40'

Minimum Customer Wiring Size - Residence Single Phase				
METER SIZE	CONDUIT SIZE	Current carrying & neutral wire size (per NEC)		COPPER GROUND WIRE SIZE
		ALUMINUM	COPPER	
100 Amp	1.5"	#2	#4	#6
200 Amp	2"	4/0	2/0	#4
320 Amp	3"	500	350	#2

Wire sizes based upon customer breaker size
For 3Ø, consult the company Commercial & Industrial. Wire sizes are typically larger.



1 E200 SINGLE LINE DIAGRAM

Material	
Name	Watt
CEILING FAN	55W
CEILING MOUNT ROUND LED LIGHT	20W
WALL MOUNT LED LIGHT	10W
CEILING MOUNT 2"X2" SQUARE LED LIGHT	40W
HANGING LIGHT	20W

AR CH

1050 FM306 STE105
NEW BRAUNFELS TX,US, 78130

OWNER:

1050 FM306 STE105
NEW BRAUNFELS
TX,US, 78130

SEAL:

Release for construction

ELECTRICAL LOAD SCHEDULE PLAN

Drawn by:	B.R & J.T
Checked:	
Date:	MAR, 24.
A.18	
Scale: no scale	