PANEL: PANEL 1
LOCATION: CARWASH EQUIPMENT ROOM
FEEDER SOURCE: 112.5 kva TRANSFORMER

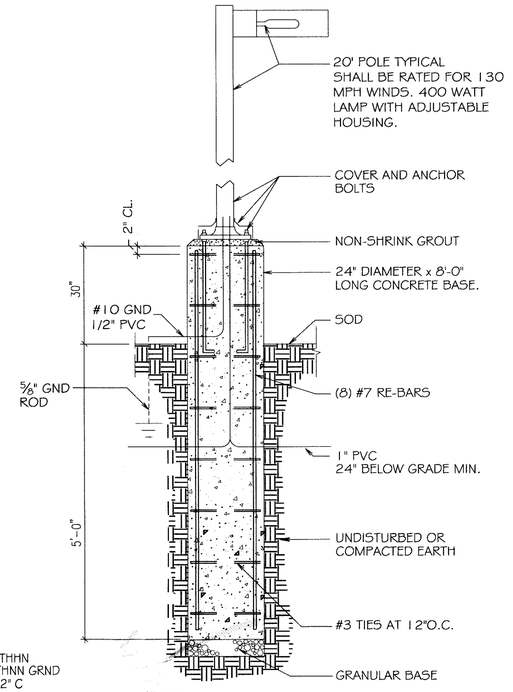
VOLTAGE: 208/120V, 225A 3ø, 4W
ENCLOSURE: SURFACE MOUNTED W/EQUIPMENT GND BAR
W/ 225 MAIN BRK. 22000 AIC

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (KVA)	LOAD (KVA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT. NO.
1					3.04	3.04					2
3	#2	COMPRESSOR 7.5HP (ITEM 10-A)	50	3	3.04	3.04	3	50	COMPRESSOR 7.5HP (ITEM 10-A)	#2	4
5					3.04	3.04					6
7	#12	DALE R. BROTT SYSTEMS COMPUTER SERVER	20	1	1.50	1.20	1	20	TUNNEL SIGNS (ITEMS 29-A, 29-B, 29-C, 29-J)	#12	8
9	#12	AIR DRYER 35 CFM (ITEM 10-L) (COMPRESSOR 10)	20	1	0.72	1.60	1	20	SIGNS AND MENU (ITEMS 30-C, 30-E, 30-I)	#12	10
11	#12	PROGRAMER PUSH BUTTON STATION (ITEM 20-B)	20	1	1.50	0.64	1	20	PREWASH "PORCH" LIGHTS	#12	12
13	#12	PAY STATION 2EA. (ITEM 20-C)	20	1	1.44	1.60	1	20	TUNNEL LIGHTING	#12	14
15	#12	GATE 2 EA. (ITEM 20-D)	20	1	1.44	0.80	1	20	OFFICE & GFI OUTLETS	#12	16
17	#12	CANOPY LIGHTS #1	20	1	1.92	0.64	1	20	EQUIPMENT RM LIGHTS	#12	18
19	#12	CANOPY LIGHTS #2	20	1	1.92	0.19	1	20	OFFICE & RESTROOM LIGHTS	#12	20
21	#12	PAY STATION CANOPY LIGHTS	20	1	0.64	1.40					22
23	#12	EF-2 ROOFTOP EXHAUST FAN EQUIPMENT ROOM	25	1	1.5	1.40	2	20	SITE LIGHTING	#12	24
25			25	1	1.5	1.35	2	20	DS1 DUCTLESS A/C & HEAT PUMP (9,000 BTU)	#12	26
27	#12	EQ. RM CONVENIENCE OUTLETS	20	1	1.10	1.35					28
29	–	SPARE	20	1	–	8.33	3	100	WATER HEATER 120 GALLON (25 kw)	#12	30
31	–	SPARE	20	1	–	8.33					32
33	–	SPARE	20	1	–	8.33					34
35											36
37											38
39											40
41						–			SHUNT TRIP BREAKER	#12	42

SOLID NEUTRAL
NEUTRAL WIRE (W)

TOTAL CONNECTED LOAD (KVA)=70.38
A@=29.28 B@=15.11 C@=26.18

GROUND BUS
GROUND WIRE (G)



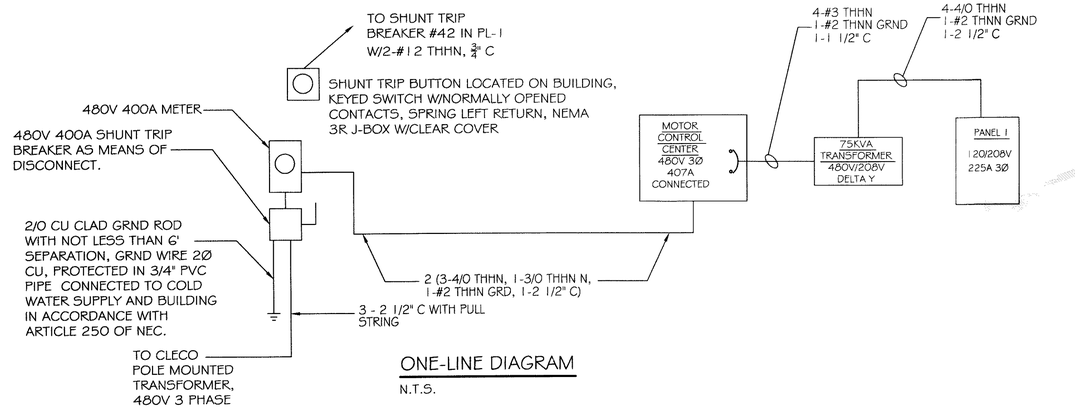
TYPICAL LIGHT POLE DETAIL
N. T. S.

NOTE:

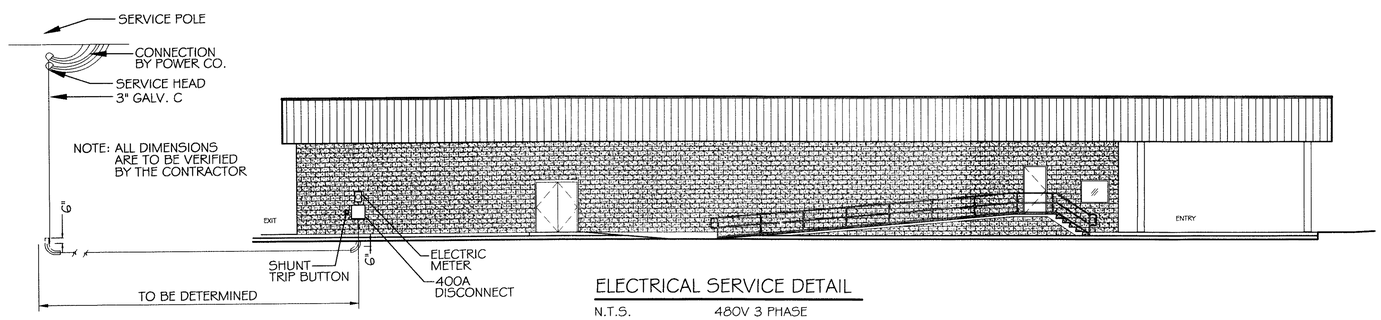
ALL UTILITIES SHALL BE INSTALLED UNDERGROUND.
PRIOR TO DIGGING ALWAYS VERIFY ALL EXISTING UNDERGROUND UTILITIES, CONTACT LOUISIANA ONE CALL.

SITE LIGHTING

EXTERIOR LIGHTING SHALL BE SHADED OR INWARDLY DIRECTED IN SUCH A MANNER SO THAT NO DIRECT LIGHTING OR GLARE IS CAST BEYOND THE PROPERTY LINE. THE INTENSITY OF SUCH LIGHTING SHALL NOT EXCEED ONE FOOT CANDLE AS MEASURED AT THE ABUTTING PROPERTY LINE.



ONE-LINE DIAGRAM
N.T.S.



ELECTRICAL SERVICE DETAIL
N.T.S. 480V 3 PHASE

392868
REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

CLECO Power LLC - Electrical Load Summary

Project Name: Rain Forest Carwash
Project Address: 3017 Pontchartrain Drive
City / Town: Slidell, Louisiana
Intended Use: Carwash Business
Requested Service: 480 Volts 3 Phase 4 Wires
Service Entrance Size: 400 Amps
HVAC Tonnage: N/A Tons
Largest Motor: 25 HP (Note: Motors above 20 hp may require reduced Voltage starting and are never recommended for use with 208/120V, 3 Ø, 4W services.)
4,587 Square Feet
Total Building Square Footage: N/A Square Feet (Multiple Occupancy)
Individual Unit Square Footage: N/A (Multiple Occupancy)
Individual Unit Designation:

LOAD SOURCE	SECONDARY TRANSFORMER 120/208V 1Ø - kVA	3Ø - kVA	or	480V 1Ø - kW	3Ø - kW
Building Lighting	2.98	-	or	-	-
Electric Water Heating	25.00	-	or	-	-
Heat Pumps - DS Ductless Units	2.71	-	or	-	-
Supplemental Heat System	-	-	or	-	-
Air Conditioning Condensing Units	-	-	or	-	-
Electrical Heating (Primary) - AHUs	-	-	or	-	-
Cooking	-	-	or	-	-
Refrigeration	-	-	or	-	-
Receptacles (Standard)	1.76	-	or	-	-
Receptacles (Computer)	1.60	-	or	-	-
Total Motors (Exclude HVAC)	-	18.23	or	-	338.36
Parking Lot / Exterior Lighting	6.64	-	or	-	-
Miscellaneous	-	-	or	-	-
Other (Specify)	-	-	or	-	-

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CHIEF ENGINEER
EMMETT
DAMMON, P.E.
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EXPERT WITNESS

RAIN FOREST CARWASH

3017 PONTCHARTRAIN DRIVE SLIDELL, LA 70458

ELECTRICAL SCHEDULES, DIAGRAMS, & NOTES

REV:

SCALE: AS NOTED
JOB#: 2085
DATE: 01-17-11
SHEET 25

E-3

OF 25