A — PANELBOARD

208Y/120V, 3PH, 4W
200A M.L.O.
22,000 AIC
SURFACE MOUNT
GROUND BAR
ISOLATED GROUND BAR

SERVES: FUEL EQUIP/SITE LIGHTING
LOCATION: CAR WASH EQUIP. RM
FED FROM: CAR WASH MDP
OVERCURRENT DEVICE: 200A

CK	LOAD SERVED	WIRE	BRKR	PL	PHASE A	PHASE B	PHASE C	PL	BRKR	WIRE	LOAD SERVED	CK
1	PANEL B	3	100	2	11.10 | 0.00							2
3	------	---	---			4.84 | 0.00						4
5	AIR MACHINE (4) (6)	10	20	1			1.90 | 0.18	1	20	10	GAS SWITCH (1)	6
7				1	0.00 | 0.00							8
9						0.00 | 0.00					10
11	CANOPY LIGHTS (11)	12	20	1			1.21 | 0.50	1	20	12	SITE CONTROLLER	12
13	CANOPY LIGHTS (11)	12	20	1	1.21 | 0.00							14
15	CANOPY SIGNS (11)	12	20	1		0.54 | 0.00					16
17	APPLAUSE SERVER	12	20	1			0.50 | 0.18	1	20	12	LIGHTING CONTACTOR	18
19					0.00 | 0.00							20
21						0.00 | 0.00					22
23	VEEDER ROOT						0.50 | 0.50	1	20	12	POS	24
25					0.00 | 0.00							26
27						0.00 | 0.00					28
29							0.00 | 0.90	1	20	10	WAVE (11)	30
31					0.00 | 0.00							32
33						0.00 | 0.00					34
35							0.00 | 0.00					36
37	SURGE SUPPRESSOR	10	30	3	0.00 | 0.00							38
39	------	---	---			0.00 | 0.00						40
41	------	---	---				0.00 | 0.00					42
43					0.00 | 0.00							44
45						0.00 | 0.00					46
47							0.00 | 0.00					48
49					0.00 | 0.00							50
51						0.00 | 0.00					52
53							0.00 | 0.00					54

TOTAL CONNECTED	12.31	5.38	6.37 KVA
TOTAL CONNECTED	102.60	44.83	53.10 AMPS
TOTAL LOAD	24.06 KVA		66.79 AMPS
PER NEC ARTICLE 220 FEEDER LOAD	25.08 KVA		69.60 AMPS

100%	7.80	100%	7.80 KVA
125%	0.00	125%	0.00 KVA
LIGHTING	4.04	125%	5.06 KVA
MOTORS	9.68	100%	9.68 KVA
RECEPTACLES*	2.54	*	2.54 KVA
KITCHEN	0.00	100%	0.00 KVA
REFRIGERATION	0.00	100%	0.00 KVA
HVAC – COOLING**	0.00	100%	0.00 KVA
HVAC – HEAT**	0.00	0%	0.00 KVA
LARGEST MOTOR	0.00	25%	0.00 KVA
			25.08 KVA

*FIRST 10kVA AT 100% AND REMAINING AT 50%
**LARGEST OF COOLING OR HEATING

B — PANELBOARD

208/120V, 1PH, 3W
100A M.L.O.
22,000 AIC
SURFACE MOUNT
GROUND BAR
ISOLATED GROUND BAR

SERVES: FUELING EQUIPMENT
LOCATION: CAR WASH EQUIP. RM
FED FROM: PANEL A
OVERCURRENT DEVICE: 100A

CK	LOAD SERVED	WIRE	BRKR	PL	PHASE A	PHASE B	PL	BRKR	WIRE	LOAD SERVED	CK
1	DISPENSER #1 (2) (ES)	10	20	2	1.18 | 1.18		2	20	10	DISPENSER #2 (2) (ES)	2
3	SWITCHED NEUTRAL	10	---			0.00 | 0.00		---	10	SWITCHED NEUTRAL	4
5	DISPENSER #3 (2) (ES)	10	20	2	1.18 | 1.18		2	20	10	DISPENSER #4 (2) (ES)	6
7	SWITCHED NEUTRAL	10	---			0.00 | 0.00		---	10	SWITCHED NEUTRAL	8
9	DISPENSER #5 (2) (ES)	10	20	2	1.18 | 1.21		2	20	10	STP UNLEADED (2) (ES)	10
11	SWITCHED NEUTRAL	10	---			0.00 | 1.21		---	---	------	12
13	STP PREMIUM (2) (ES)	10	20	2	1.21 | 1.21		2	20	10	STP DIESEL (2) (ES)	14
15	------	---	---			1.21 | 1.21		---	---	------	16
17	STP NO ETHANOL (2) (ES)	10	20	2	1.21 | 0.36		1	20	12	LVDD (1) (ES)	18
19	------	---	---			1.21 | 0.00	2	30	10	SURGE SUPPRESSOR	20
21					0.00 | 0.00			---	---	------	22
23						0.00 | 0.00					24
25					0.00 | 0.00						26
27						0.00 | 0.00					28
29					0.00 | 0.00						30
31						0.00 | 0.00					32
33					0.00 | 0.00						34
35						0.00 | 0.00					36
37					0.00 | 0.00						38
39						0.00 | 0.00					40
41					0.00 | 0.00						42

	11.10	4.84	
TOTAL CONNECTED	92.50	40.33	AMPS
TOTAL LOAD	15.94 KVA	76.63	AMPS
PER NEC ARTICLE 220 FEEDER LOAD	16.23 KVA	78.05	AMPS

LIGHT FIXTURE SCHEDULE

TYPE	MODEL#/DESCRIPTION	LAMP	WATTA
A	CREE# CAN-304-SL-RS-08 [illegible] UL-WH-525 CANOPY FIXTURE		10

ELECTRICAL SYMBOLS LEGEND

(SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)

SYMBOL	DESCRIPTION
	FLUORESCENT FIXTURE
	FLUORESCENT FIXTURE, NIGHT LIGHT
	EMERGENCY FIXTURE
$	SWITCH, SINGLE POLE
$OS	SWITCH, OCCUPANCY SENSOR
	RECEPTACLE, DUPLEX
	RECEPTACLE, SIMPLEX
	RECEPTACLE, DUPLEX IG
	RECEPTACLE, QUAD
	RECEPTACLE, SIMPLEX TWIST LOCK, ISOLATED GROUND, L5-[illegible] NEMA
J	JUNCTION BOX (WALL MOUNTED / CEILING MOUNTED)
A	ALARM JUNCTION BOX (WALL MOUNTED / CEILING MOUNTED)
	NON-FUSED DISCONNECT
NEUTRAL GROUND HOTS	CIRCUIT, CONCEALED IN WALLS OR CEILING, E INDICATES EXISTING WIRING
	CIRCUIT, CONCEALED IN SLAB FLOOR, E INDICATES EXISTING WIRING
	CIRCUIT, EXPOSED, E INDICATES EXISTING WIRING
	TELEPHONE / DATA BOX FOR ISD
	MOTOR
XXX	EQUIPMENT SCHEDULE CALLOUT

ABBREVIATIONS

CU	CONDENSING UNIT
EF	EXHAUST FAN
G	GROUND
GFI	GROUND FAULT CIRCUIT INTERRUPTER
IG	ISOLATED GROUND
SC	SECURITY CAMERA
UH	UNIT HEATER
WH	WATER HEATER
WP	WEATHER PROOF COVERPLATE
WR	WEATHER RESISTANT RECEPTACLE

PANELBOARD NOTES

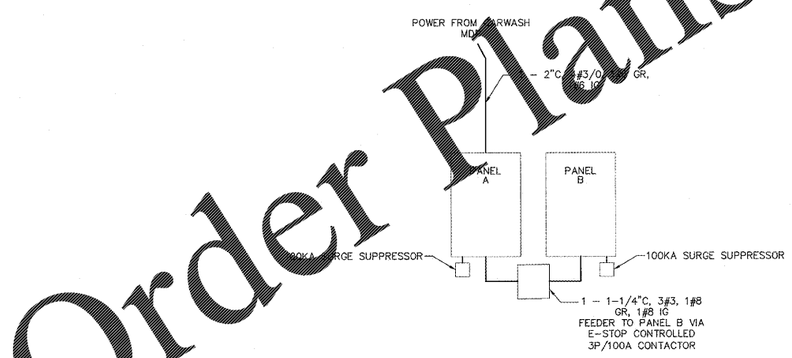
1. TERMINATE GROUND ON ISOLATED GROUND BUS.
2. INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-OFF FOR MAINTENANCE).
3. INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-ON FOR CRITICAL [illegible]).
4. GFI BREAKER FOR PERSONNEL PROTECTION (5 mA).
5. GFI BREAKER FOR EQUIPMENT PROTECTION (30 mA).
6. CONDUCTOR SIZE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUNDING CONDUCTOR PROPORTIONALLY PER NEC.
7. REFER TO ONE-LINE DIAGRAM FOR AVAILABLE FAULT CURRENT FOR INTERRUPT RATINGS.
8. REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES.
9. FACTORY WIRED TO LOAD.
10. REFER TO SITE LIGHTING PLAN FOR WIRE SIZES.
11. THRU CONTACTOR.

SN. DESIGNATES A SWITCHED NEUTRAL CIRCUIT BREAKER.

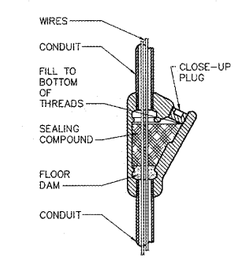
ES. CIRCUIT IS DISCONNECTED BY EMERGENCY STOP.

LIGHTING CONTACTORS

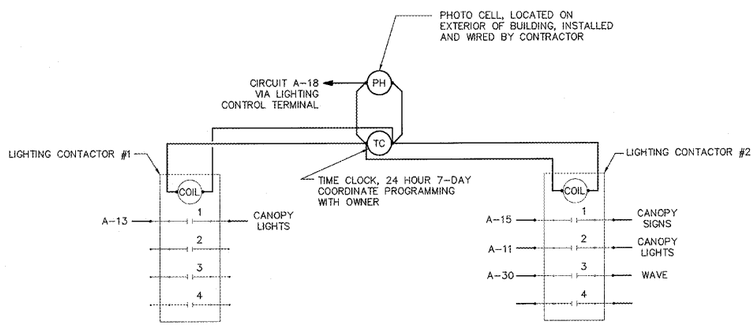
LIGHTING CONTACTORS ARE WIRED TO OPERATE DURING PRESET HOURS WHEN IT IS OF THE APPROPRIATE LIGHT LEVEL AS SET BY THE PHOTOCELL.



3 ELECTRICAL ONE-LINE DIAGRAM
NTS 013015



2 CONDUIT SEAL-OFF
NTS



1 LIGHTING CONTACTORS SCHEMATIC
NTS

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HFA ARCHITECTS ENGINEERS INTERIORS
HARRISON FRENCH & ASSOCIATES, PLLC
2705 S. Walton Blvd., Suite 3
Bentonville, Arkansas 72712
479.273.7780
FAX 888.520.9685
www.hfa-ae.com

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6-6-17

PANEL SCHEDULES AND ONE-LINE DIAGRAM

SHEET: FSE3