

**Report By:**

National TAB  
1329 E. KEMPER ROAD  
SUITE 4210  
CINCINNATI, OH 45246

**NATIONAL**

**TAB**

Comfort. Under control.

**Report: Commissioning - (FIV) Electrical Above Ceiling**

**Date: 4/2/2022**

# **PROJECT**

## **Shake Shack (Chesterfield) - Commissioning**

17312 Chesterfield Airport Road

Chesterfield, MO 63005

### **Client**

24 Union Square East, 5th Fl

New York, NY 10003



# National TAB

Project: Shake Shack (Chesterfield) - Commissioning

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Comfort. Under control.

## Shake Shack (Chesterfield) - Commissioning

### CheckList Information

**Name :** (FIV) - Electrical Above Ceiling Inspection **Status :** NotSubmitted

**Assigned Organization :** National TAB **Asset :**

**Requesting Organization :** National TAB

### CheckList Item Details

#### BREAKER PANELS AND SURGE PROTECTION DEVICE

Ensure panel location is correct and recessed into the wall Yes



Recessedpanels.jpeg

MP panel is installed as specified: 600 A, 208Y/120, 3p, 4W Yes





MPpaneltag.jpeg

P1 Panel is installed as specified: 225A, 208Y/120, 3p, 4W No

P2 Panel is installed as specified: 225A, 208Y/120, 3p, 4W No

Validate Panels are color coded and wired for each phase A: Black; phase B: Red; Phase C: Blue; Neutral: White; Equipment Ground: Green; Isolated Ground: Green and yellow stripe. No

Review Panel wiring. Work with electrician to validate circuits and all phase to phase loading is as designed. Any deviations to phase loads or branch labels Cx to require electrician to submit to EOR to approve and update plans No

MP Panel breakers and phase loading match specified panel layout No

**PANELBOARD: MDP**

FEED FROM SERVICE DISCONNECT  
EQUIPMENT GROUND BUS

CIRCUIT NO.	DESCRIPTION	CIRCUIT RATING			WIRE SIZE	WIRE TYPE	WIRE COLOR	LOCATION	DESCRIPTION	CIRCUIT NO.
		A	B	C						
1	208Y/120V	208	120	3	1	1	1	1	1	1
2	208Y/120V	208	120	3	1	1	1	1	1	1
3	208Y/120V	208	120	3	1	1	1	1	1	1
4	208Y/120V	208	120	3	1	1	1	1	1	1
5	208Y/120V	208	120	3	1	1	1	1	1	1
6	208Y/120V	208	120	3	1	1	1	1	1	1
7	208Y/120V	208	120	3	1	1	1	1	1	1
8	208Y/120V	208	120	3	1	1	1	1	1	1
9	208Y/120V	208	120	3	1	1	1	1	1	1
10	208Y/120V	208	120	3	1	1	1	1	1	1
11	208Y/120V	208	120	3	1	1	1	1	1	1
12	208Y/120V	208	120	3	1	1	1	1	1	1
13	208Y/120V	208	120	3	1	1	1	1	1	1
14	208Y/120V	208	120	3	1	1	1	1	1	1
15	208Y/120V	208	120	3	1	1	1	1	1	1
16	208Y/120V	208	120	3	1	1	1	1	1	1
17	208Y/120V	208	120	3	1	1	1	1	1	1
18	208Y/120V	208	120	3	1	1	1	1	1	1
19	208Y/120V	208	120	3	1	1	1	1	1	1
20	208Y/120V	208	120	3	1	1	1	1	1	1
21	208Y/120V	208	120	3	1	1	1	1	1	1
22	208Y/120V	208	120	3	1	1	1	1	1	1
23	208Y/120V	208	120	3	1	1	1	1	1	1
24	208Y/120V	208	120	3	1	1	1	1	1	1
25	208Y/120V	208	120	3	1	1	1	1	1	1
26	208Y/120V	208	120	3	1	1	1	1	1	1
27	208Y/120V	208	120	3	1	1	1	1	1	1
28	208Y/120V	208	120	3	1	1	1	1	1	1
29	208Y/120V	208	120	3	1	1	1	1	1	1
30	208Y/120V	208	120	3	1	1	1	1	1	1
31	208Y/120V	208	120	3	1	1	1	1	1	1
32	208Y/120V	208	120	3	1	1	1	1	1	1
33	208Y/120V	208	120	3	1	1	1	1	1	1
34	208Y/120V	208	120	3	1	1	1	1	1	1
35	208Y/120V	208	120	3	1	1	1	1	1	1
36	208Y/120V	208	120	3	1	1	1	1	1	1
37	208Y/120V	208	120	3	1	1	1	1	1	1
38	208Y/120V	208	120	3	1	1	1	1	1	1
39	208Y/120V	208	120	3	1	1	1	1	1	1
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51	208Y/120V	208	120	3	1	1	1	1	1	1
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55	208Y/120V	208	120	3	1	1	1	1	1	1
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58	208Y/120V	208	120	3	1	1	1	1	1	1
59	208Y/120V	208	120	3	1	1	1	1	1	1
60	208Y/120V	208	120	3	1	1	1	1	1	1
61	208Y/120V	208	120	3	1	1	1	1	1	1
62	208Y/120V	208	120	3	1	1	1	1	1	1
63	208Y/120V	208	120	3	1	1	1	1	1	1
64	208Y/120V	208	120	3	1	1	1	1	1	1
65	208Y/120V	208	120	3	1	1	1	1	1	1
66	208Y/120V	208	120	3	1	1	1	1	1	1
67	208Y/120V	208	120	3	1	1	1	1	1	1
68	208Y/120V	208	120	3	1	1	1	1	1	1
69	208Y/120V	208	120	3	1	1	1	1	1	1
70	208Y/120V	208	120	3	1	1	1	1	1	1
71	208Y/120V	208	120	3	1	1	1	1	1	1
72	208Y/120V	208	120	3	1	1	1	1	1	1
73	208Y/120V	208	120	3	1	1	1	1	1	1
74	208Y/120V	208	120	3	1	1	1	1	1	1
75	208Y/120V	208	120	3	1	1	1	1	1	1
76	208Y/120V	208	120	3	1	1	1	1	1	1
77	208Y/120V	208	120	3	1	1	1	1	1	1
78	208Y/120V	208	120	3	1	1	1	1	1	1
79	208Y/120V	208	120	3	1	1	1	1	1	1
80	208Y/120V	208	120	3	1	1	1	1	1	1
81	208Y/120V	208	120	3	1	1	1	1	1	1
82	208Y/120V	208	120	3	1	1	1	1	1	1
83	208Y/120V	208	120	3	1	1	1	1	1	1
84	208Y/120V	208	120	3	1	1	1	1	1	1
85	208Y/120V	208	120	3	1	1	1	1	1	1
86	208Y/120V	208	120	3	1	1	1	1	1	1
87	208Y/120V	208	120	3	1	1	1	1	1	1
88	208Y/120V	208	120	3	1	1	1	1	1	1
89	208Y/120V	208	120	3	1	1	1	1	1	1
90	208Y/120V	208	120	3	1	1	1	1	1	1
91	208Y/120V	208	120	3	1	1	1	1	1	1
92	208Y/120V	208	120	3	1	1	1	1	1	1
93	208Y/120V	208	120	3	1	1	1	1	1	1
94	208Y/120V	208	120	3	1	1	1	1	1	1
95	208Y/120V	208	120	3	1	1	1	1	1	1
96	208Y/120V	208	120	3	1	1	1	1	1	1
97	208Y/120V	208	120	3	1	1	1	1	1	1
98	208Y/120V	208	120	3	1	1	1	1	1	1
99	208Y/120V	208	120	3	1	1	1	1	1	1
100	208Y/120V	208	120	3	1	1	1	1	1	1

MDP\_PANEL\_BOARD\_DESIG N.PNG

**PANELBOARD LEGEND**

ABBREVIATIONS V1.00

AF	ARC FAULT CIRCUIT INTERRUPTER.
CB	CIRCUIT BREAKER
CL	CIRCUIT VIA LIGHTING CONTACTOR #
DL	DISCONNECT CIRCUITRY FOR REMOVED LOAD. UPDATE CIRCUIT DIRECTORY TO SPARE AND TURN OFF.
D	DISCONNECT CIRCUITRY FOR REMOVED LOAD. UPDATE CIRCUIT DIRECTORY TO SPARE AND TURN OFF.
EM	EMERGENCY LIGHTING HANDLE-ON CLAMP.
EX	EXISTING.
F	FUTURE LOAD. NOTE AS SPARE AND TURN OFF.
FA	REDHANDLE-ON CLAMP.
GF	GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA).
GFEP	GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA).
HT	PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.
IG	ISOLATED GROUND CIRCUIT.
LI	LIGHTING CONTROL SCHEME NUMBER.
LOK	HANDLE PADLOCKABLE-OFF DEVICE.
LO	HANDLE-ON CLAMP.
N	PROVIDE NEW CIRCUIT BREAKER.
OL	REFER TO ELECTRICAL ONE-LINE RISER DIAGRAM.
PS	POWER-SWITCHING CIRCUIT BREAKER.
PSE	EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.
R	REUSE EXISTING CIRCUIT BREAKER FOR NEW/REVISED LOAD.
RP	CIRCUIT VIA RELAY PANEL.
ST	SHUNT TRIP CIRCUIT BREAKER.
STC	ROUTE VIA SHUNT TRIP CONTACTOR.
V	VERIFY EXISTING LOAD AND UPDATE DIRECTORY. IF UNUSED, NOTE AS SPARE AND TURN OFF.
VD	BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP. ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED.
Z	CORRECT/REPAIR EXISTING HAZARD TO MAKE CODE COMPLIANT INSTALLATION.

NOT ALL ABBREVIATIONS ARE USED.

PANEL\_BOARD\_LEGEND.PNG

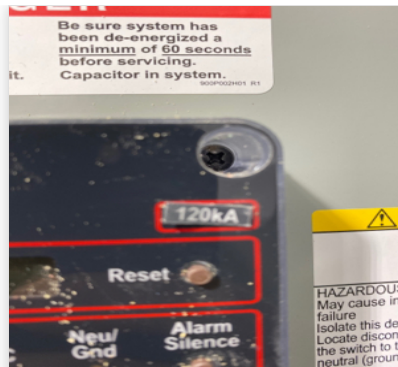
P1 Panel breakers and phase loading match specified panel layout No







Surgeprotector.jpeg



120KA.jpeg



Onoffsirgectrlnote.jpeg

(SPD) surge protector shall have LED indicator lights to provide indication of suppression component failure Yes

(SPD) Transient counter: A transient voltage surge counter shall be included to totalize transient voltage surges which deviate from the sine wave envelope by more than 125V. The readout shall be at least a six digit LCD located on the units hinged front cover Yes

(SPD) The counter shall be equipped with a battery back-up to retain memory when power is not present. A push button switch on the display's face plate shall be provided for manual counter reset. Unit is not equipped with a battery backup, surge protector counter has a stored memory that will automatically retain the memory and recall once power is re-initiated.

**HOOD CONTROL CIRCUIT**

Rough-in of hood H1/N1 control is complete No

Rough-in of Shunt Trip contractors for electrical appliances are complete No

Rough-In of DOAS power is complete (Main power and receptacle power) DOAS 3phase power is complete, the 120v electrical receptacle has not been wired.



Doasmainpower.jpeg



Convenienceoutlet.jpeg



Nopowerconvoutlet.jpeg

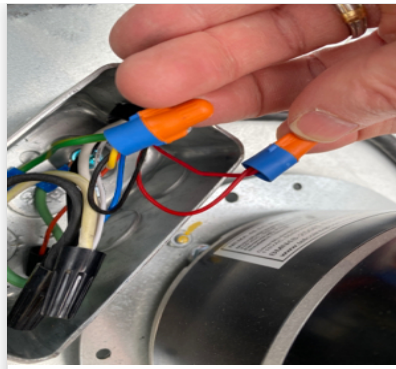


Rough-In of Kitchen Exhaust Fan power is complete

Yes



Fanpower.jpeg



Lowvoltfanctrl.jpeg

Electrician has reviewed hood schematic and understands point to point connections for all 120V and higher connections, including: Pre-wire power, hood light connections, power route to each fan, shunt trip, gas valve, fire system switch, and any required audible alarm

Yes

**HOOD LOW VOLTAGE CONNECTIONS**

Low voltage: CAT5, speed control, thermostat wire required to interlock all features of the hood

No

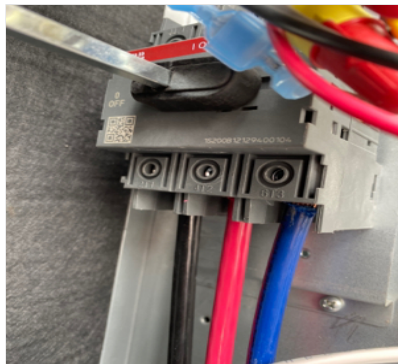
Building alarm panel contractor connection points on fire suppression low voltage micro-switch are complete

No

**RTU AND GENERAL PURPOSE FANS**

Power to RTU is complete, including 120v receptacle outlet

Yes



RTUMAINPOWER.jpeg



Convoutletpwr.jpeg



Disconnectoutlet.jpeg

Power to office FCU is complete

No



Power to office FCU condenser is complete	No
Power to the restroom exhaust fan is complete	No
Power to Walk-in cooler condenser is complete	No
Power to custard mobile freezer condenser is complete	No

**LIGHT ROUGH-IN**

All exterior Parking lights are installed and powered	No
All exterior menus and signs are installed and powered	No
All interior menus and signs are installed and powered	No
Emergency Lighting power is complete	No
Power for Lutron Gateway is complete	No

**SUPPORTS**

Rigid supports at intervals of 5ft support all electrical raceways	Yes
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Electricalsupport1.jpeg



Electricalsupport2.jpeg

Verify supports are not hung from the roof deck, they should be supported by structural beams	Yes
All exposed conduit to be ran parallel to building lines in rigid conduit	Yes

**HOT WATER HEATER AND ACCESSORIES**

hot water heater power is complete	No
hot water low temp alarm and aqua stat power is complete	No



Recirculation Pump is powered

No

