

REVISIONS	
DATE	DESCRIPTION

**Hardee's**  
Prince George, VA  
BN2016 LD-R

Reference Set - 1st Release

PROJECT NUMBER:	<b>19-101</b>
DATE:	8-6-2019
SCALE:	1/4" = 1'-0"
DRAWN BY:	AH
APPROVED BY:	RJ

SHEET TITLE:	<b>ELECTRICAL ROUGH-INS</b>
SHEET NUMBER:	<b>QF301</b>

ELECTRICAL ROUGH-INS SCHEDULE									
MARK	ROUGH-INS HEIGHT	QTY	FL AMPS	KW OR HP RATING	ITEM	DESCRIPTION	REMARKS		
				120/1 208/208 208/1 208/3 240/1 480/3					
E-4	86"	2	14.0	2.90-KW	4	COFFEE MAKER	208V-1Ø WITH NEUTRAL WIRE		
E-6	84"	1	12.0		6	ICE CUBE MAKER	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-7	ON ROOF	1			7	ICE MAKER REMOTE CONDENSER	115V-1Ø SERVICE FROM ICE MAKER		
E-8	VERIFY 1"	20A OR			8	ICE / SODA DISPENSER	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-11	50"	2	5.2	3/4-HP	11	DRINK MIXER	120V-1Ø WITH CORD & PLUG		
E-12	18"	1	2.1		12	ICE CREAM FREEZER	115V-1Ø WITH CORD & PLUG, NEMA 5-15P		
E-19	VERIFY 1"	20A OR			19	ICE / SODA DISPENSER	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-22	14"	1	7.5	1/4-HP	22	UNDERCOUNTER REFRIGERATOR	115V-1Ø WITH CORD & PLUG NEMA 5-15P		
E-28	14"	2	20A OR		28	P.O.S. SYSTEM	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-29	DROP	1	48.4		29	TRANSFER TABLE	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-31	12"	1	7.5	1/4-HP	31	UNDERCOUNTER REFRIGERATOR	115V-1Ø WITH CORD & PLUG NEMA 5-15P		
E-34	32"	1	20A OR		34	DRIVE-THRU WINDOW	115V-1Ø WITH 15 AMP DEDICATED CIRCUIT		
E-35A	50"	1	18.5	3.8-KW	35A	CONVEYOR TOASTER	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-36	18"	1	40.0	8.25-KW	36	GRIDDLE	208V-1Ø SERVICE CORD & PLUG NEMA 15-50P		
E-37	DROP	1	20A OR		37	TIMER	120V-1Ø WITH CORD & PLUG		
E-38	84"	3	20A OR		38	TIMER	120V-1Ø WITH CORD & PLUG		
E-40	80"	1	4.9	1/5-HP	40	REACH-IN REFRIGERATOR	115V-1Ø WITH CORD & PLUG NEMA 5-15P		
E-42	80"	1	4.9	1/5-HP	42	REACH-IN REFRIGERATOR	115V-1Ø WITH CORD & PLUG NEMA 5-15P		
E-45	18"	1	48.0	17.0 KW	45	FRYER	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-49	84"	1	9.7	1/2-HP	49	REACH-IN FREEZER	115V-1Ø WITH CORD & PLUG NEMA 5-15P		
E-50	12"	3	48.0	17.0 KW	50	MEAT FREEZER	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-50A	18"	1	7.5	1/4-HP	50A	ICE REFRIGERATOR	115V-1Ø SERVICE CORD & PLUG NEMA 5-15P		
E-51	DROP	1	20A OR		51	EXHAUST FAN	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-52	DN ROOF	1	2.5	3/4-HP	52	EXHAUST FAN (ON ROOF)	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-53	14"	1	6.3	1/3-HP	53	UNDERCOUNTER FREEZER	115V-1Ø WITH CORD & PLUG, NEMA 5-15P		
E-54	14"	1	16.0	3.2-KW	54	FRENCH FRY WARMER	120V-1Ø WITH CORD & PLUG, NEMA 5-20P		
E-56	DROP	1	64.0	8.8-KW	56	CONVEYOR BROILER	208V/50/3Ø, HARD WIRED		
E-57	DROP	1	20A OR		57	EXHAUST HOOD	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-58	DN ROOF	1	1.4	1/2	58	EXHAUST FAN (ON ROOF)	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-59	DROP	1	5.1		59	SLIDE TOP FREEZER	115V-1Ø WITH CORD & PLUG, NEMA 5-15P		
E-60	DROP	1	58.4		60	MAKE UP TABLE	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-62A	14"	1	16.0	1.9	62A	MICROWAVE OVEN	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-63	DROP	1	20A OR		63	WALK-IN COOLER	120V-1Ø FOR LIGHTS & DOOR TITERS, SEE E-64 FOR 208V-1Ø DIRECT CONNECTION, SEE E-65 FOR 208V-3Ø DIRECT CONNECTION, SEE E-66 FOR 208V-3Ø DIRECT CONNECTION, SEE E-67 FOR 208V-1Ø FOR LIGHTS & DOOR TITERS, SEE E-68 FOR 208V-1Ø FOR LIGHTS & DOOR TITERS, SEE E-69 FOR 208V-1Ø SERVICE FOR CONDENSATE LINE EXTERIOR TAKE, POWER FOR COIL, B.T.C FROM CONDENSER		
E-64	DN	1	1.4	21/15-HP	64	MED TEMP EVAP. COIL	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-65	REMO	1	14.1	1.0-HP	65	MED TEMP CONDENSER	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-66	DROP	1	1.4		66	WALK-IN FREEZER	120V-1Ø FOR LIGHTS & DOOR TITERS, SEE E-67 FOR 208V-1Ø FOR LIGHTS & DOOR TITERS, SEE E-68 FOR 208V-1Ø FOR LIGHTS & DOOR TITERS, SEE E-69 FOR 208V-1Ø SERVICE FOR CONDENSATE LINE EXTERIOR TAKE, POWER FOR COIL, B.T.C FROM CONDENSER		
E-67	DROP	1	1.4		67	WALK-IN FREEZER	120V-1Ø FOR LIGHTS & DOOR TITERS, SEE E-68 FOR 208V-1Ø FOR LIGHTS & DOOR TITERS, SEE E-69 FOR 208V-1Ø SERVICE FOR CONDENSATE LINE EXTERIOR TAKE, POWER FOR COIL, B.T.C FROM CONDENSER		
E-68	REMO	1	13.1	2.5-HP	68	LOW TEMP CONDENSER	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-69	DROP	1	10.3	21/19-HP	69	LOW TEMP EVAP. COIL MOTORS	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-74	77"	1	13.5	1.9-KW	74	ICE CUBE MAKER	208V-1Ø CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-75	REMO	1			75	REMOTE CONDENSER	115V-1Ø SERVICE FROM ICE MAKER		
E-82	84"	1	20A OR		82	BISCUIT FLOUR HOOD	115V-1Ø SERVICE WITH CORD & PLUG		
E-85	30"	1	24.0	5.6-KW	85	SINGLE CONVECTION OVEN	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-87.1	24"	1	24.0	5.6-KW	87.1	DOUBLE CONVECTION OVEN	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-87.2	48"	1	24.0	5.6-KW	87.2	DOUBLE CONVECTION OVEN	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-88	DROP	1	20A OR		88	EXHAUST HOOD	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-89	DN ROOF	1	1.9	1/2-HP	89	EXHAUST FAN (ON ROOF)	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-96	DROP	1	3.4	1/5-HP	96	INSECT CONTROL FAN	ELECTRICIAN TO MOUNT INSECT CONTROL FAN THROUGH SCHEDULED PEN FOR EQUIPMENT CENTER, SEE SCHEDULE FOR EQUIPMENT CENTER		
E-97	DN ROOF	1	3.4	1.0-HP	97	SUPPLY FAN	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-97A	DN ROOF	1	86.7	36.0-KW	97	SUPPLY FAN	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-98	VERIFY 1"	3.7	1/4-HP		98	RESTROOM EXHAUST	115V-1Ø SERVICE, VERIFY LOCATION WITH ARCHITECT AND/OR MECHANICAL DRAWINGS FOR DETAILS		
E-99	86"	1	19.5	4.0-KW	99	HOT WATER DISPENSER	208V-1Ø CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P		
E-102	46"	2	12.5	1.5-KW	102	HAND DRYER	120V-1Ø SERVICE, DIRECT CONNECTION		
E-C01	16"	2	20A OR		E-C01	CONVENIENCE OUTLET	120V-1Ø SERVICE		

ELECTRICAL CONNECTIONS AT ITEM 29, TRANSFER TABLE									
MARK	ROUGH-INS HEIGHT	QTY	FL AMPS	KW OR HP RATING	ITEM	DESCRIPTION	REMARKS		
				120/1 208/208 208/1 208/3 360/3 480/3					
E-30	BTC	1	12.8	3.0-KW	30	SANDWICH HOLDING BIN	208V-1Ø SERVICE CORD & PLUG NEMA 1Ø-20P WIRE TO OUTLET IN COOLER		
E-32	BTC	1	7.5	1/4-HP	32	UNDERCOUNTER COOLER	115V-1Ø SERVICE CORD & PLUG NEMA 5-15P WIRE TO OUTLET IN COOLER		
E-33	BTC	2	4.2	0.5-KW	33	HEAT LAMP	115V-1Ø SERVICE CORD & PLUG NEMA 5-15P WIRE TO OUTLET IN COOLER		
E-35	BTC	1	18.5	3.8-KW	35	CONVEYOR TOASTER	208V-1Ø SERVICE CORD & PLUG NEMA 6-20P WIRE TO OUTLET IN COOLER		

ELECTRICAL CONNECTIONS AT ITEM 60, MAKE UP TABLE									
MARK	ROUGH-INS HEIGHT	QTY	FL AMPS	KW OR HP RATING	ITEM	DESCRIPTION	REMARKS		
				120/1 208/208 208/1 208/3 360/3 480/3					
E-38	BTC	1	20A OR		38	TIMER	120V-1Ø SERVICE CORD & PLUG NEMA 5-15P WIRE TO OUTLET IN COOLER		
E-60B	BTC	1	5.8		60B	BISCUIT HOLDING SHELF	115V-1Ø SERVICE CORD & PLUG NEMA 5-15P WIRE TO OUTLET IN COOLER		
E-60C	BTC	1	3.7		60C	HOLDING CABINET	115V-1Ø SERVICE CORD & PLUG NEMA 5-15P WIRE TO OUTLET IN COOLER		
E-60D	BTC	1	11.7		60D	HOLDING CABINET	115V-1Ø SERVICE CORD & PLUG NEMA 5-15P WIRE TO OUTLET IN COOLER		
E-61	BTC	4	13.8	1.6-KW	61	FOOD WARMER	115V-1Ø SERVICE CORD & PLUG NEMA 5-15P WIRE TO OUTLET IN COOLER		
E-62B	BTC	1	16.0	1.9-KW	62B	MICROWAVE OVEN	208V-1Ø SERVICE CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN, NEMA 1Ø-20P WIRE TO OUTLET IN COOLER		
E-100	BTC	1	2.9	1/4-HP	100	UNDERCOUNTER REFRIGERATOR	115V-1Ø SERVICE CORD & PLUG NEMA 5-15P WIRE TO OUTLET IN COOLER		

ELECTRICAL NEMA SCHEDULE				
ITEM	QTY	DESCRIPTION	VOLTS/PHASE	NEMA
12	1	ICE CREAM FREEZER	115	1 NEMA 5-15P
22	1	UNDERCOUNTER COOLER	115	1 NEMA 5-15P
30	1	SANDWICH HOLDING BIN	120-208	1 NEMA L14-20P
31	1	UNDERCOUNTER REFRIGERATOR	115	1 NEMA 5-15P
32	1	UNDERCOUNTER COOLER	115	1 NEMA 5-15P
33	2	HEAT LAMP	120	1 NEMA 5-15P
35	1	CONVEYOR TOASTER	208	1 NEMA 6-20P
35A	1	CONVEYOR TOASTER	208	1 NEMA 6-20P
36	1	GRIDDLE	208	3 NEMA 15-50P
37/38	4	TIMER	120	1 NEMA 5-15P
40	1	REACH-IN REFRIGERATOR	115	1 NEMA 5-15P
42	1	REACH-IN REFRIGERATOR	115	1 NEMA 5-15P
49	1	REACH-IN FREEZER	115	1 NEMA 5-15P
50A	1	UNDERCOUNTER COOLER	115	1 NEMA 5-15P
53	1	WORKTOP FREEZER	115	1 NEMA 5-15P
54	1	FRENCH FRY WARMER	120	1 NEMA 5-20P
59	1	SLIDE TOP FREEZER	115	1 NEMA 5-15P
60C	1	HOLDING CABINET	120	1 NEMA 5-15P
60D	1	HOLDING CABINET	120	1 NEMA 5-15P
61	4	FOOD WARMER	120	1 NEMA 5-15P
62A	1	MICROWAVE OVEN	120	1 NEMA 5-20P
62B	1	MICROWAVE OVEN	120	1 NEMA 5-20P
100	1	REACH-IN REFRIGERATOR	115	1 NEMA 5-15P

(CORD & PLUG PROVIDED BY ELECTRICIAN) SCHEDULE				
ITEM	QTY	DESCRIPTION	VOLTS/PHASE	NEMA
4	2	TEA/COFFEE BREWER	208	1
6	1	ICE CUBE MAKER	115	1
45/50	4	FRYER	208	3
59	1	MEAT FREEZER	115	1
74	1	ICE CUBE MAKER	208-230	1
85	1	CONVECTION OVEN	208	3
87.1	1	CONVECTION OVEN	208	3
87.2	1	CONVECTION OVEN	208	3
99	1	HOT WATER DISPENSER	208	1

