

PANEL D												400 AMP M.L.O.						
120/208V_3PH_4W_S/N												42 POLE						
CKT. NO.	GRND WIRE SIZE	#WIRE S & SIZE	A&E NO.	BRKR. SIZE	SERVICE	KEY NOTE	LOAD (VA)	PHASE	LOAD (VA)	KEY NOTE	SERVICE	BRKR. SIZE	A&E NO.	#WIRE S & SIZE	GRND WIRE SIZE	CKT. NO.		
1							1620	A			SPARE	20/1				2		
3	#12	4 #12	W-075	20/3	WALK-IN COOLER		1620	K	B		SPARE	20/1				4		
5							1620	C			SPARE	20/1				6		
7							1320	A			SPARE	20/1				8		
9	#10	4 #10	W-075	20/3	WALK-IN FREEZER		1320	K	B	5	ICE MAKERS S/S & D/T (2)	20/1	S-513	2 #12	#12	10		
11							1320	C	K		ICE MACHINE CONDENSER	20/2	S-513	3 #10	#10	12		
13			20/1		SPARE			A			ICE MACHINE CONDENSER	20/2	S-513	3 #10	#10	14		
15			20/1		SPARE			B			ICE MACHINE CONDENSER	20/2	S-513	3 #10	#10	16		
17			20/1		SPARE			C			ICE MACHINE CONDENSER	20/2	S-513	3 #10	#10	18		
19	#12	3 #12	N-043	20/2	POWER SOAKER		1185	A	H	2	EF-2 (RESTROOM)	20/1				20		
21							1185	M	B		SPARE	20/1				22		
23	#12	2 #12	E-107	20/1	HOOD FIRE SUPPRESSION SYSTEM	1	720	M	C		EXTERIOR RECEPTACLES	20/1		2 #12	#12	24		
25	#12	2 #12		20/1	IRRIGATION TIMER		360	M	A	M	5	UTILITY RECEPTACLE	20/1		2 #12	#12	26	
27	#12	2 #12		15/1	ROOF RECEPTACLES		540	M	B	H	2	EF-1 (HOOD)/HOOD LIGHTS	20/1		2 #12	#12	28	
29	#12	2 #12	B-215	20/1	TANKLESS WATER HEATER	5	240	M	C	M	1100	HAND DRYER	20/1		2 #12	#12	30	
31							5090	A	M		1100	HAND DRYER	20/1		2 #12	#12	32	
33	#10	4 #6		50/3	RTU-1		5090	H	B	M	1090	5	UTILITY RECEPTACLES	20/1		2 #12	#12	34
35							5090	C	M		720	5	UTILITY RECEPTACLES	20/1		2 #12	#12	36
37							8520	A	H		1225		AR CURTAIN	20/1		2 #12	#12	38
39	#8	4 #3		80/3	RTU-2		8520	H	B		3120		FROZEN BEVERAGE DISPENSER	30/2	S-639	3 #10	#10	40
41							8520	C	K		3120		FROZEN BEVERAGE DISPENSER	30/2	S-639	3 #10	#10	42
CONNECTED LOAD A:							22805	VA	73430	VA	TOTAL LOAD	203.8	VA					
CONNECTED LOAD B:							25225	VA	65017	VA	DEMAND LOAD	180.5	VA					
CONNECTED LOAD C:							25800	VA		VA								

PANEL D

PANEL A												225 AMP M.L.O.						
120/208V_3PH_4W_S/N												42 POLE						
CKT. NO.	GRND WIRE SIZE	#WIRE S & SIZE	A&E NO.	BRKR. SIZE	SERVICE	KEY NOTE	LOAD (VA)	PHASE	LOAD (VA)	KEY NOTE	SERVICE	BRKR. SIZE	A&E NO.	#WIRE S & SIZE	GRND WIRE SIZE	CKT. NO.		
1	#12	2 #12	S-285	20/1	BEVERAGE DISPENSER D/T		420	K	A	K	1780	5	ICE TEA EQUIPMENT	20/1	S-546	2 #12	#12	2
3	#12	2 #12	S-204	20/1	D/T TIMING SYSTEM		865	M	B	M	1200	5	POS/ORDER ENTRY TERM (2) & U-070 (2)	20/1	U-100	2 #12	#12	4
5	#12	2 #12	R-928	20/1	FULL HEIGHT FREEZER		865	K	C	M	720	5	SAFE AND MONEY COUNTER (F-102)	20/1	F-174	2 #12	#12	6
7	#12	2 #12		20/1	OFFICE GENERAL POWER		180	M	A	K	865	5	CARBONATOR	20/1	S-570	2 #12	#12	8
9	#10	2 #10	P-452	30/2	HOT WATER DISPENSER		2040	K	B	M	1200	5	POS/ORDER ENTRY TERM (1)	20/1	U-100	2 #12	#12	10
11													SPACE					12
13	#12	2 #12		20/1	DEDICATED OFFICE POWER		720	M	A				SPACE					14
15	#12	2 #12	F-040	20/1	OFFICE PWR/COMPUTER/FAX MACHNE		1600	M	B	M	1200	5	POS/ORDER ENTRY TERM (1) & U-070 (1)	20/1	U-100	2 #12	#12	16
17	#12	2 #12	U-052	20/1	OFFICE SECURITY SYSTEM	1	720	M	C	K	480	5	BEVERAGE DISPENSER S/S	20/1	S-570	2 #12	#12	18
19	#12	2 #12		20/1	TELEPHONE SYSTEM/OFFICE RECEPT.		360	M	A	K	865	5	CARBONATOR	20/1	S-570	2 #12	#12	20
21	#12	2 #12	S-240	20/1	ORDER CONFIRMATION/SWITCH BOX		500	M	B	M	480	5	DT COMM SYS BASE STATION	20/1	U-100	2 #12	#12	22
23													SPACE					24
25	#12	2 #12	S-540	20/1	PEPSIBSTER/CO2/WTR. SFTNR. & FLTR.	5	720	M	A				SHUNT TRIP BREAKER					26
27	#12	2 #12	U-238	20/1	MONITOR	5	600	M	B	L	1080	5	MENU BOARD & RECALL ALARM			2 #12	#12	28
29	#12	2 #12	S-005	20/1	HEATED CABINET	5	1920	K	C	M	420	5	HEATERS (C-400 - P)	20/1	C-400	2 #12	#12	30
31	#12	2 #12		20/1	OFFICE POWER		180	M	A	M	900		FLY FAN	20/1		2 #12	#12	32
33	#12	2 #12		20/1	UTILITY RECEPTACLE/SAT (F-050 & U-081)	5	1120	M	B	M	600		MONITOR	20/1		2 #12	#12	34
35							2040	K	A	K			SPACE					36
37	#10	2 #10	P-452	30/2	HOT WATER DISPENSER		2040	K	A	K			BREWER	20/1	S-547	2 #12	#12	38
39	#12	2 #12	F-131	20/1	MUSIC SYSTEM (MUZAK)		500	M	B	K			SHUNT TRIP BREAKER	20/1	C-046	2 #12	#12	40
41	#12	2 #12	S-004	20/1	HEATED CABINET	5	1920	K	C				SHUNT TRIP BREAKER	20/1		2 #12	#12	42
CONNECTED LOAD A:							10080	VA	35485	VA	TOTAL LOAD	98.5	VA					
CONNECTED LOAD B:							13825	VA	28414	VA	DEMAND LOAD	75.9	VA					
CONNECTED LOAD C:							13825	VA		VA								

KITCHEN EQUIPMENT PANEL A

PANEL B												225 AMP M.L.O.					
120/208V_3PH_4W_S/N												42 POLE					
CKT. NO.	GRND WIRE SIZE	#WIRE S & SIZE	A&E NO.	BRKR. SIZE	SERVICE	KEY NOTE	LOAD (VA)	PHASE	LOAD (VA)	KEY NOTE	SERVICE	BRKR. SIZE	A&E NO.	#WIRE S & SIZE	GRND WIRE SIZE	CKT. NO.	
1	#12	2 #12		20/1	INTERIOR LIGHTING/FRZ LIGHTS	2	1310	L	A		SPARE	20/1				2	
3				20/1	SPARE						DINING ROOM LIGHTS	20/1		2 #12	#12	4	
5				20/2	SPARE						PARKING LOT LIGHTING	20/1		2 #10	#10	6	
7	#12	2 #12		20/1	INTERIOR LIGHTING/FAN CONTROL BOX	1	590	M	A		SPARE	20/1				8	
9	#10	2 #10		20/1	OUTSIDE LIGHTS	2	670	L	B	L	1200	2,3	PARKING LOT LIGHTING	20/1	2 #10	#10	10
11											SPACE					12	
13											SPACE					14	
15											SPACE					16	
17											SPACE					18	
19											SPACE					20	
21	#12	2 #12		20/1	SHOW WINDOW		1200	L	B		SPACE					22	
23	#12	2 #12		20/1	SHOW WINDOW		1200	L	C		SPACE					24	
25	#12	2 #12		20/1	SHOW WINDOW		1200	L	A		SPACE					26	
27											SPACE					28	
29	#10	2 #10		20/1	PYLON SIGN	2,3	1200	L	C		SPACE					30	
31	#10	2 #10		20/1	BUILDING SIGNS	2	1200	L	A		SPACE					32	
33											SPACE					34	
35											SPACE					36	
37											SPACE					38	
39											SPACE					40	
41	#10	2 #10		20/1	BUILDING SIGNS	2	1200	L	C		SPACE					42	
CONNECTED LOAD A:							4210	VA	13500	VA	TOTAL LOAD	37.5	VA				
CONNECTED LOAD B:							4890	VA	13500	VA	DEMAND LOAD	37.5	VA				
CONNECTED LOAD C:							4400	VA		VA							

LIGHTING PANEL B

PANEL	LIGHTING (W)	KITCHEN EQUIP (W)	HVAC (W)	MISCELLANEOUS (W)	CONNECTED LOAD	DEMAND LOAD
PANEL A	1000	47894		15485	35485	28414
PANEL B	1300	20545	43935	8410	50684	33382
TOTAL	2300	68029	43935	26795	172479	140313

TOTAL DEMAND =	WATTS	140313 @ 120/208V_3Ø-4W	AMPS	389.5
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LOAD DESCRIPTION	APPLICABLE FACTOR
L LIGHTING	100%
K KITCHEN EQUIPMENT	65% ***
H HVAC	100%
M MISC. EQUIPMENT	100%

***KITCHEN EQUIPMENT DEMAND FACTORS PER NEC 2011 SECTION 220.56 ALLOWS FOR PERCENTAGES WITHIN EACH PANEL ACCORDING TO THE FOLLOWING EQUIPMENT QUANTITIES:
 1 - 100%; 2 - 100%; 3 - 90%; 4 - 80%;
 5 - 70%; 6 AND OVER - 65%.
 THESE PERCENTAGES DO NOT CARRY OVER INTO THE LOAD SUMMARY, WHICH IS CALCULATED AT 65% REGARDLESS.

LOAD SUMMARY & LEGEND F

NOT USED	C
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- GENERAL NOTE:
 LIGHTING CIRCUITS INSIDE THE BUILDING SHALL BE WIRED THRU LIGHTING CONTACTORS. REFER TO DETAILS ON SHEET E6.0.
- KEY NOTES:
 1 PROVIDE LOCK-ON BREAKER
 2 CIRCUITS TO BE WIRED THRU COMBINED CONTROL BOX CONTACTOR SHEET SHEETS E6.0 AND E6.1 FOR MORE INFORMATION.
 3 FOR PARKING LOT LIGHTS AND OUTSIDE SIGNS: PROVIDE 3/4" FROM PANEL "B" AND STUB OUT 10'-0" AWAY FROM THE BUILDING. VERIFY EXACT LOCATION AND QUANTITIES OF STUBS PRIOR TO ROUGH-IN. LOADS MAY VARY WITH LOCATION - VERIFY. VERIFY OUTDOOR VOLTAGE DROP FOR ALL PARKING LIGHTING CIRCUITS.
 4 CIRCUIT TO BE ROUTED THRU DEAD-FRONT GFCI DEVICE.
 5 CIRCUIT TO BE PROTECTED VIA GFCI BREAKER.

VERIFY ALL WIRE AND BREAKER SIZES AND EQUIPMENT LOADS WITH EQUIPMENT MANUFACTURER AND EQUIPMENT SUPPLIED IN FIELD PRIOR TO COMMENCING WORK.

GENERAL NOTES & KEY NOTES E

CONTRACT DATE: XXX-XXX
 BUILDING TYPE: EXPLORER LITE 40
 PLAN VERSION: DECEMBER 2017
 SITE NUMBER: XXX-XXX
 STORE NUMBER: XXXXX

TACO BELL
 101 MONTGOMERY CROSSING
 BISCOE, NC 27209

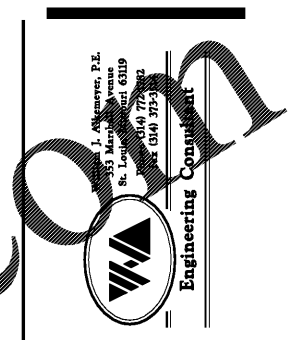


PANEL SCHEDULES AND LOAD SUMMARY
E2.1

PLOT DATE:

Order Plans @ WWWWLDLINE.COM

NOT USED G



PERMIT/CONSTRUCTION SET
 DATE: FEB. 28, 2018