

KROGER ELECTRICAL FIXTURE SCHEDULE	
FIXTURE ID	TYPE COMMENTS
B44T	120V 1PH .75AMPS FOR SERVICE SCALE/UPC PRINTER (TOLEDO), PROVIDE A 3/4" CONDUIT TO ECR RM. MOUNT RCPT 4'-0" AB. FL.
B99CDB	1027W FOR CAKE IMAGING MACHINE
B100	115V 2.4A FOR AIR BRUSH W/COMPRESSOR. MOUNT RCPT 4'-0" AB. FL.
B155T-I_LM	120V, 3.75 AMP, 1PH, FOR LED LIGHTS ON IN LINE TALL DONUT DISPLAY CASE
BGDNC6HI	195W FOR FANS, 273W FOR A.S. HTRS, .55W FOR LIGHTS, 2100W (208V 1PH) FOR ELEC DEF. (TO PANEL FOR DEF WIRING) ON 8" NARROW GLASS DOOR ICE CREAM TEMP GROCERY CASE
BMDL5HP	72W FOR FANS, 117W FOR LIGHTS ON 5' MDLP BAKERY CASE
BV5DN8HX	6' FIVE-DECK NARROW BEVERAGE CASE ON 8' FIVE-DECK NARROW BEVERAGE CASE
BV5DN12HX	75W FOR FANS, 255W FOR LIGHTS ON 12' 5-DECK NARROW BEVERAGE CASE
D23T	120V 1PH .75AMPS FOR SERVICE SCALE/UPC PRINTER (TOLEDO), PROVIDE A 3/4" COND. TO ECR ROOM
D26	504W 4'-0" AB FL FOR MANUAL SLICER
D36	120V 1PH 13.0A CKT, 1750W 3'-5" AB FL FOR MICROWAVE OVEN
D70V	120V, 12.5A FOR SINGLE CUP COFFEE MACHINE
D77B	1150W FOR RICE COOKER
D299TV-48	120V, 180W, 1PH, FOR 48" DIGITAL MONITOR FOR DELI MENU BOARD
DCKSO6AT	208V, 1PH, 1934.5W FOR HEAT LAMP, 208V, 1PH, 1914W FOR DROP-IN WARMER, 208V, 1PH, 1914W FOR DROP-IN WARMER, 208V, 1PH, 780W FOR HEATED DRAWERS
DGD12HI	120V, 48W FOR FANS, 68.2W FOR MULLION LIGHTS, FOR 12FT GLASS DOOR DELI CASE
DMDLR8HC	120V, 32W, FOR FANS, 41W FOR LED LIGHTS, FOR 8' FRESH SLICED MULTI DECK CASE (REMOTE)
DPSSST6B-2	168W FOR FANS, 132W FOR LIGHTS, 38W FOR ANTI-SWEAT HEATERS FOR 6' SUSHI PREP/DISPLAY CASE W/ REF. REAR STORAGE
DS12HE	30W FOR FANS, 135W FOR AMB FANS, 1200W A/S HTRS, 257W FOR LIGHTS
E38TP	375W FOR THERMAL PRINTER
E38TS	18W FOR TOUCHSCREEN POS (FOR DEM MOUNT)
E42-17	37W FOR 17" LCD MONITOR
E102	56W FOR THINCLINET & MONITOR
F4VD_BL	120V, .28AMPS, 1PH CIRCUIT FOR LED LIGHTS WITHIN 4' VASE DISPLAY WITH ADJUSTABLE SHELVES.
G5DN5C4M-20 8	208-230V, 10.5 AMP, 1PH FOR 4' FIVE DECK NARROW SELF-CONTAINED GROCERY MERCH, COMES WITH 9' CORD WITH NEMA L6-20 208-230 PLUG
GE38	120V 500W FOR REGISTER (DEDICATED CKT)
GE156	120V 250W ELEC FED FROM RACEWAY FOR EFT PIN PAD & CREDIT CARD READER
GE186	120V 1PH 14AMPS FOR MICROWAVE MOUNT RCPT 4'-0" AB. FL.
GGDNL12HI	326W FOR FANS, 455W FOR A.S. HTRS, 108W FOR LIGHTS, 3500W (208V 1PH) FOR ELEC DEF. (TO PANEL FOR DEF WIRING) ON 12' NARROW GLASS DOOR LOW-TEMP GROCERY CASE
QMS4K	2466W FOR PROMO CASE (RECD LOCKED ON DEVICE @ PANEL)
HDR2	120V, 8.33AMP, 1PH FOR DYSON LOW VOLTAGE HAND DRYER
MGDNL18HI	195W FOR FANS, 273W FOR A.S. HTRS, .65W FOR LIGHTS, 2100W (208V 1PH) FOR ELEC DEF. (TO PANEL FOR DEF WIRING) ON 8' NARROW GLASS DOOR LOW-TEMP GROCERY CASE
P54	100W FOR PRODUCE MISTING CONTROL/TIMER, DUPLEX OUTLET MOUNTED ABOVE CASE
SSDFRN8HI	120V, 48W FOR FANS, 132.10W FOR HIGH OUTPUT CANOPY LIGHTS AND FOUR ROWS OF SHELF LIGHTS, FOR 8' FIVE-DECK SEAFOOD CASE (NO GLASS)
SGDNL18HI	75W FOR FANS, 415W FOR A.S. HTRS, .240W FOR LIGHTS, 2720W (208V 1PH) FOR ELEC DEF. (TO PANEL IN MECH HOUSE FOR DEF WIRING) ON 8' NARROW GLASS DOOR LOW-TEMP GROCERY CASE
T4D	PROVIDE POWER FOR TABLE TOP EQUIPMENT AS SHOWN ON LEGEND & 800W. CONVENIENCE OUTLETS, 4'-0" AB.FL. AS REQUIRED BY CODE
T6D	PROVIDE POWER FOR TABLE TOP EQUIPMENT AS SHOWN ON LEGEND & 800W. CONVENIENCE OUTLETS, 4'-0" AB.FL. AS REQUIRED BY CODE
T6SC	1265W FOR 6' TABLE W/REF BASE (SELF- CONT.)
T8S	PROVIDE POWER FOR TABLE TOP EQUIPMENT AS SHOWN ON LEGEND & 800W. CONVENIENCE OUTLETS, 4'-0" AB.FL. AS REQUIRED BY CODE
TMP-392	120V, 28V, 1PH, FOR RAD CHARGING STATION.

Kroger Data Device Scedule			
Family and Type	Type	Comments	Keynote
Structured Cabling - Wall: B44T	1 DATA JACK		
Structured Cabling - Wall: D23T	1 DATA JACK		
Structured Cabling - Wall: D299TV-48	1 DATA JACK		

TYPICAL EQUIPMENT NAME NOMENCLATURE:
1 - POWER DISTRIBUTION SYSTEM (BLANK - NORMAL, E - EMERGENCY, S - STANDBY, L - LIFE SAFETY)
2 - DESCRIPTION (H - 480V/277V, L - 208V/120V)
3 - FLOOR / LEVEL
4 - SEQUENCE

EQUIPMENT	PHASE	SPACE NUMBER	SPACE NAME	SUPPLY FROM	POWER BRANCH	TYPE	VOLTAGE	PHASE	WIRES	DEMAND (kVA)	DEMAND (A)	MAINS RATING (A)	MAINS FRAME RATING (A)	MAINS TYPE	BUSING	MOUNTING	FEEDER	LUIGS TYPE	SPD	ULSE	GEC	ENCLOSURE TYPE	FAULT CURRENT (A)	SHORT CIRCUIT RATING (A)	NOTES
LA	Existing	19	MAIN ELECTRIC ROOM	LDPA	NORMAL	Branch Panelboard	208	3	4	1921 VA	49 A	225	225	MAIN LUSS ONLY	COPPER OR ALUMINUM	SURFACE	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE					NEMA 1	1265	EXISTING	
LB	Existing	19	MAIN ELECTRIC ROOM	LDPA	NORMAL	Branch Panelboard	208	3	4	1019 VA	3 A	225	225	MAIN LUSS ONLY	COPPER OR ALUMINUM	SURFACE	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE					NEMA 1	12621	EXISTING	
LC	Existing	19	MAIN ELECTRIC ROOM	LDPA	NORMAL	Branch Panelboard	208	3	4	951 VA	3 A	225	225	MAIN LUSS ONLY	COPPER OR ALUMINUM	SURFACE	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE					NEMA 1	12468	EXISTING	
LDPA	Existing	19	MAIN ELECTRIC ROOM	TLCPA	NORMAL	Distribution Panelboard	208	3	4	30127 VA	84 A	1600	1600	FUSED	COPPER OR ALUMINUM	SURFACE	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE					NEMA 1	13866	EXISTING	
LM1	Existing	3	BAKERY PREP	LMI	NORMAL	Branch Panelboard	208	3	4	8492 VA	24 A	225	225	MAIN LUSS ONLY	COPPER OR ALUMINUM	SURFACE	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE	FEED-THROUGH				NEMA 1	4400	EXISTING	
LM2	Existing	3	BAKERY PREP	LMI	NORMAL	Branch Panelboard	208	3	4	8602 VA	19 A	225	225	MAIN LUSS ONLY	COPPER OR ALUMINUM	SURFACE	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE					NEMA 1	4399	EXISTING	
LV	Existing	35	PICKUP	LDPA	NORMAL	Branch Panelboard	208	3	4	4294 VA	12 A	100	100	MAIN LUSS ONLY	COPPER OR ALUMINUM	RECESSED	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE					NEMA 1	1722	EXISTING	
MSB	Existing	19	MAIN ELECTRIC ROOM	UTILITY	NORMAL	Switchboard	480	3	4	708077 VA	853 A	2000	2000	FUSED	COPPER OR ALUMINUM	PAD	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE			Yes	Yes	NEMA 1	17348	EXISTING	

ELECTRIC TRANSFORMER SCHEDULE

TYPICAL EQUIPMENT NAME NOMENCLATURE:
1 - POWER DISTRIBUTION SYSTEM (BLANK - NORMAL, E - EMERGENCY, S - STANDBY, L - LIFE SAFETY)
2 - DESCRIPTION (H - 480V/277V, L - 208V/120V)
3 - FLOOR / LEVEL
4 - SEQUENCE

GENERAL TRANSFORMER NOTES:
A. FOR FLOOR MOUNTED TRANSFORMERS, PROVIDE PERMANENT MARKING ON TRANSFORMER THAT READS "STORING ITEMS ON TOP OF TRANSFORMER IS PROHIBITED."

EQUIPMENT	PHASE	SPACE NUMBER	SPACE NAME	SUPPLY FROM	TYPE	RATING	DEMAND	PRIMARY VOLTAGE	PRIMARY WIRES	SECONDARY VOLTAGE	SECONDARY WIRES	WINDINGS	ENCLOSURE TYPE	MOUNTING
TLCPA	Existing	19	MAIN ELECTRIC ROOM	MSB	Dry Type Transformers	500.0 kVA	30.1 kVA	480 V	3	208	4	COPPER OR ALUMINUM	NEMA 1	PAD

120V CONTACTOR SCHEDULE

CONTACTOR RATING TYP: 30AMP/900V

NOTES: COIL VOLTAGE: 120V

"BC" CONTROL REMARKS: OFF FROM 10:00PM TO 8:00AM

NOTES: ALL CONTACTORS ARE TO BE 12 POLE UNLESS OTHERWISE NOTED. EC TO PROVIDE ONE ENCLOSURE FOR EACH PANEL LISTED IN "BC" CONTROL REMARKS. REFER TO DETAIL ESD-13 FOR...

SUPPLY	CIRCUIT NUMBER	LOAD NAME
LC	7	(H) MODULAR LOW-TEMP CASE (S) DONUT SEAFOOD CASE (L) SEAFOOD PREP 12
LC	31	(H) GONDOLIN GROCERY CASE (L) TO SALES AREA 2

ELECTRIC BREAKER DIRECT BUY SCHEDULE

PANEL NAME	TYPE	VOLTAGE	BREAKER QUANTITIES	SHORT CIRCUIT RATING
LA	Branch Panelboard	208 V	(2) 25A / 3P	EXISTING
LM1	Branch Panelboard	208 V	(3) 20A / 1P(G)	EXISTING
LM2	Branch Panelboard	208 V	(1) 20A / 1P(G), (1) 40A / 2P(LT)	EXISTING
LV	Branch Panelboard	208 V	(1) 20A / 1P, (2) 20A / 1P(G) (LT), (1) 20A / 2P	EXISTING

SINGLE LINE GENERAL NOTES

- SCOPE:** ONLY EQUIPMENT AFFECTED BY THIS SCOPE OF WORK IS SHOWN BELOW.
- FAULT CURRENT CALCULATIONS:** BASED OFF A 750 kVA TRANSFORMER AT 5% IMPEDANCE. FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEERS OF ANY DISCREPANCIES.
- BRANCH CIRCUIT BREAKERS:** ELECTRICAL CONTRACTOR TO PROVIDE BRANCH CIRCUIT BREAKERS FOR ALL BREAKERS LISTED IN THE ELECTRIC BREAKER DIRECT BUY SCHEDULE ABOVE. REFER TO PANEL SCHEDULES FOR PANELBOARD INFORMATION.

SINGLE LINE KEYED NOTES

- 30-DAY METERING:** PROVIDE RECORDING METERING AT EQUIPMENT/NODE INDICATED, CONTINUOUSLY RECORDED OVER A MINIMUM 30-DAY PERIOD, COMPLIANT WITH THE EXCEPTION UNDER PARAGRAPH (1) OF ARTICLE 220.87 OF THE NATIONAL ELECTRICAL CODE (NFPA 70). SUBMIT RESULTS TO DESIGN PROFESSIONALS AFTER 7 DAYS, 15 DAYS AND AFTER 30 DAYS.

SWITCHBOARD: MSB

SUPPLY FROM: UTILITY

LOCATION: MAIN ELECTRIC ROOM 19

DISTRIBUTION SYSTEM: 480/277V 3PH 4W

MAINS RATING (A): 2000

MAINS TYPE: FUSED

200% NEUTRAL:

FEEDER ID: X2000

FEEDER: EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE

NOTES:

FAULT CURRENT (A): 17348

SHORT CIRCUIT RATING (A): EXISTING

ENCLOSURE TYPE: NEMA 1

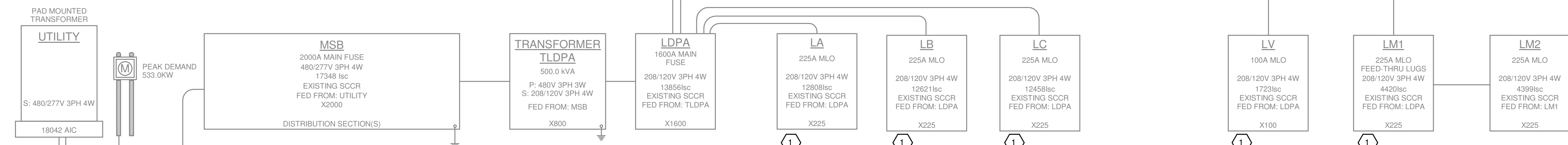
URGE SUPPRESSION:

ULSE: Yes

ISOLATED GROUND:

PHASE: Existing

CKT	TRIP	FRAME	POLES	VDN	AWG	CHD	CIRCUIT DESCRIPTION		LOAD
1	800 A	800 A	3	SL	SL	SL	(EXT) TLPOA		30.75 kVA
2	--	--	3	--	--	--	ALL OTHER BREAKERS ARE EXISTING TO REMAIN		--
3									
4									
LOAD CLASSIFICATION	CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		BREAKER QUANTITIES (NEW ONLY)		
Continuous	0 VA		0.00%		0 VA				
Cooling	0 VA		0.00%		0 VA				
Elevator	0 VA		0.00%		0 VA				
Heating	0 VA		0.00%		0 VA				
Kitchen Equipment	8667 VA		90.00%		8661 VA				
Lighting	761 VA		125.00%		951 VA				
Motor	987 VA		108.17%		1079 VA				
Non-Continuous	2008 VA		100.00%		2008 VA				
Receptacle	0 VA		0.00%		0 VA				
PANEL TOTALS									
METERED PEAK DEMAND (PER NEC 220.87): 54300.0 VA									
ADDED CONNECTED LOAD: 10751 VA									
DEMAND CALCULATION NOTES: ESTIMATED DEMAND 30.13 kVA, WITH 125% EXISTING METERED DEMAND									
TOTAL DEMAND: 108076.7 VA									
TOTAL DEMAND AMPS: 853 A									



PARTIAL SINGLE LINE DIAGRAM

SCALE: NONE

2" REFERENCE LINE



KOHRIS LONNEMANN HEL ENGINEERS, INC.
MECHANICAL/ELECTRICAL ENGINEERS

WWW.KLHENGRS.COM

1538 ALEXANDRIA PIKE, SUITE 111

FT. THOMAS, KENTUCKY 41075

800-354-9783

859-442-8690

859-442-8695 FAX

LEXINGTON, KENTUCKY

LOUISVILLE, KENTUCKY

COLUMBUS, OHIO

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KROGER N856



126 W HIGH ST

FOSTORIA, OH 44830

for the KROGER COMPANY



300 Spruce Street

Suite 300

Columbus, Ohio 43215

Phone: (614) 461-4684

Fax: (614) 280-8881

www.moodynolan.com

Dwg. Coord: CJC

Tech. Coord: L.G.F.

Proj #: 25778.00

SINGLE LINE ELECTRICAL DIAGRAM

E6.2

95% OWNER REVIEW

10/27/2023