

| KROGER ELECTRICAL FIXTURE SCHEDULE | |
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| FIXTURE ID | TYPE COMMENTS |
| B44MT | 120V 1PH .75AMPS FOR BAKERY WIRELESS SCALE |
| B44T | 120V 1PH .75AMPS FOR SERVICE SCALE/UPC PRINTER (TOLEDO),PROVIDE A 3/4" CONDUIT TO ECR RM. MOUNT RCPT 4'-0" AB. FL |
| B99COB | 1027W FOR CAKE IMAGING MACHINE |
| B100 | 115V 2.4A FOR AIR BRUSH W/COMPRESSOR. MOUNT RCPT 4'-0" AB. FL. |
| B155-L LM | 120V, 180W, 1PH, FOR LED LIGHTS ON MID-HEIGHT DONUT DISPLAY |
| BMDL5HP | 72W FOR FANS, 117W FOR LIGHTS ON 5' MDLP BAKERY CASE |
| CHMOI-12 | 120V, .72 AMPS, 1PH FOR FANS & LED LIGHTS FOR MURRAY'S 12 PAN OLIVE BAR IN-LINE 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 |
| D41 | SEE KROGER A&E STANDARDS FOR WHERE PLUGMOLD IS REQUIRED |
| D115M | 725W FOR MINI-WRAPPER (TABLE TOP) |
| D182 | 115V 1/2 HP 8.5A FOR CHEESE SHREDDER, MOUNT RCPT 4'-0" AB. FL |
| D293TV-48 | 120V, 180W, 1PH, FOR 48" DIGITAL MONITOR FOR DELI MENU BOARD |
| DGD8HI | 120V, 32W FOR FANS, 47.7W FOR MULLION LIGHTS, FOR 6FT GLASS DOOR DELI CASE. |
| 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) |
| DMDLR12HC | 120V, 48W, FOR FANS, 51W, FOR LIGHTS, FOR 12' FRESH SLICED MULTI DECK CASE (REMOTE) |
| DSE8H | 96W FOR FANS, 177W FOR LIGHTS ON 8' EUROPEAN SERVICE DELI CASE |
| E38TP | 375W FOR THERMAL PRINTER |
| E38TS | 18W FOR TOUCHSCREEN POS (FOR OEM MOUNT) |
| E42-17 | 37W FOR 17" LCD MONITOR |
| E102 | 56W FOR THINCLIENT & MONITOR |
| GE38 | 120V 500W FOR REGISTER (DEDICATED CKT) |
| GE41 | SEE KROGER A&E STANDARDS FOR WHERE PLUGMOLD IS REQUIRED |
| GE156 | 120V 250W ELEC FED FROM RACEWAY FOR EFT PIN PAD & CREDIT CARD READER |
| GM204S | 120V, 2AMP, 1PH CIRCUIT FOR LED LIGHTING IN TOBACCO FIXTURE WITH NEMA5-15P PLUG. |
| GMSC4K | 2496W FOR PROMO CASE (REQ'D LOCKED ON DEVICE @ PANEL) |
| M1DSC4HP | 120V, 8.6AMP, 1PH CIRCUIT FOR 4'x4' (SELF-CONT) REF. MOBILE MERCHANDISER SUPPLIED WITH CORD & NEMA 5-15P PLUG. |
| T3D | PROVIDE POWER FOR TABLE TOP EQUIPMENT AS SHOWN ON LEGEND & 800W. CONVENIENCE OUTLETS, 4'-0" AB.FL. AS REQUIRED BY CODE |
| T3S | PROVIDE POWER FOR TABLE TOP EQUIPMENT AS SHOWN ON LEGEND & 800W. CONVENIENCE OUTLETS, 4'-0" AB.FL. AS REQUIRED BY CODE |
| T6S | 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.) |
| TMP-391 | 120V, 15 AMP, 1PH CIRCUIT WITH QUAD RECEPTICLE FOR DIGITAL ORDER SCREEN & THERMAL PRINTER |
| TMP-392 | 120V, 28W, 1PH, FOR RAD CHARGING STATION. |

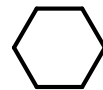
| ELECTRIC PANELBOARD AND SWITCHBOARD SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------|--------------|---------------|-------------|--------------|-------------------|---------|-------|-------|--------------|------------|------------------|------------------------|-------------------------|--------------------|----------|--|--------------|-----|------|-----|----------------|-------------------|--------------------------|---|--|
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | LUGS TYPE | SPD | ULSE | GEC | ENCLOSURE TYPE | FAULT CURRENT (A) | SHORT CIRCUIT RATING (A) | NOTES | |
| LE | Existing | 22 | ELECTRIC ROOM | SEP | NORMAL | Branch Panelboard | 208 | 3 | 4 | 43555 VA | 121 A | 200 | 200 | MAIN LUGS ONLY | COPPER OR ALUMINUM | SURFACE | EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE | FEED THROUGH | | | | NEMA 1 | 24733 | EXISTING | SIEMENS P1 TYPE PANELBOARD, EXISTING 10K RATED BREAKERS | |
| LN1 | Existing | 35 | ECR | SEP | NORMAL | Branch Panelboard | 208 | 3 | 4 | 96100 VA | 267 A | 400 | 400 | MAIN LUGS ONLY | COPPER OR ALUMINUM | SURFACE | EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE | FEED THROUGH | | | | NEMA 1 | 8110 | EXISTING | SIEMENS P1 TYPE PANELBOARD | |
| LN2 | Existing | 35 | ECR | LN1 | NORMAL | Branch Panelboard | 208 | 3 | 4 | 54300 VA | 151 A | 400 | 400 | MAIN LUGS ONLY | COPPER OR ALUMINUM | SURFACE | EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE | FEED THROUGH | | | | NEMA 1 | 8067 | EXISTING | SIEMENS P1 TYPE PANELBOARD | |
| LN3 | Existing | 35 | ECR | LN1 | NORMAL | Branch Panelboard | 208 | 3 | 4 | 3300 VA | 10 A | 70 | 70 | MAIN LUGS ONLY | COPPER OR ALUMINUM | SURFACE | EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE | FEED THROUGH | | | | NEMA 1 | 7142 | EXISTING | SIEMENS P1 TYPE PANELBOARD | |
| SEP | Existing | 22 | ELECTRIC ROOM | UTILITY | NORMAL | Switchboard | 208 | 3 | 4 | 462955 VA | 1285 A | 2500 | 2500 | FUSED - BOLTED PRESSURE | COPPER OR ALUMINUM | PAD | EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE | | | | Yes | Yes | NEMA 1 | 37981 | EXISTING | |

| Kroger Data Device Schedule | | |
|------------------------------------|--|---------|
| Family and Type | Type Comments | Keynote |
| Structured Cabling - Wall: B44MT | 1 DATA JACK | |
| Structured Cabling - Wall: B44T | 1 DATA JACK | |
| Structured Cabling - Wall: D23T | 1 DATA JACK | |
| Structured Cabling - Wall: E102 | 1 DATA JACK | |
| Structured Cabling - Wall: GE38 | IF PART OF CHECKSTAND OR ALJAS STAND (1 DATA PATCH); OTHERWISE (1 DATA JACK, 1 VOICE JACK) | |
| Structured Cabling - Wall: GE156 | IF PART OF CHECKSTAND OR ALJAS STAND (1 DATA PATCH); OTHERWISE (1 DATA JACK) | |
| Structured Cabling - Wall: TMP-391 | 4 DATA JACKS | |

| 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 15 POLE UNLESS OTHERWISE NOTED. EC TO PROVIDE ONE ENCLOSURE FOR EACH PANEL LISTED IN "BC" CONTROL REMARKS. REFER TO DETAIL ESD-13 FOR CONTACTOR WIRING DIAGRAM. | |
| SUPPLY | CIRCUIT NUMBER |
| LE | 29 |
| B155-L LM DONUT DISPLAY CHICK-12 CHEESE KITCHEN EQUIPMENT MURRAY'S CHEESE 12 | |

| ELECTRIC FEEDER SCHEDULE | | | | | | | | | |
|---|-------------|-----------|--|---------------|-----------|------------|-------|---|--|
| NOTES: ALL CONDUIT SIZES INDICATED ARE MINIMUM SIZES. INCREASE SIZES AS REQUIRED TO ACCOMMODATE CONDUCTOR PULLING EASE, FIELD CONDITIONS, ETC. "C"U" = COPPER CONDUCTOR. "AL" = ALUMINUM CONDUCTOR. **WHERE THESE FIELDS ARE BLANK, PROVIDE INSULATION & CONDUIT MATERIAL PER THE CONDUIT & WIRE MATERIAL SCHEDULE. | | | | | | | | | |
| FEEDER ID NOMENCLATURE: 1 - INDICATES FEEDER SIZED TO COMPENSATE FOR VOLTAGE DROP 1 - GROUND TYPE (MAY BE BLANK) U - EQUIPMENT GROUND CONDUCTOR REMOVED FOR SERVICE ENTRANCE FROM UTILITY P - PARITY SIZED EQUIPMENT GROUND CONDUCTOR A - EXISTING FEEDER TO REMAIN UNLESS OTHERWISE NOTED 1 - UPSTREAM GROUND CONDUCTORS FOR TRANSFORMER SECONDARY 2 - CONDUCTOR AMPLIFICATION 3 - TOTAL NUMBER OF PHASE AND GROUND(NEUTRAL) CONDUCTORS 4 - CONDUCTOR MATERIAL: C = COPPER, A = ALUMINUM 5 - SPECIAL (MAY BE BLANK) 1 = ISOLATED GROUND (PROVIDE CONTINUOUS INSULATED ISOLATED EQUIPMENT GROUNDING CONDUCTOR(S) FROM INSULATED ISOLATED GROUND BARS) TO RESPECTIVE UPSTREAM SERVICE ENTRANCE OR DERIVED SYSTEM GROUNDING ELECTRODE CONDUCTOR AS APPLICABLE. | | | | | | | | | |
| SUPPLY TO | SUPPLY FROM | FEEDER ID | FEEDER | INSULATION ** | CONDUIT** | DEMAND (A) | VD % | NOTES | |
| UTILITY | SEP | LN2 | EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE | | | 1285 A | 0.962 | | |
| LE | SEP | X2500 | EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE | | | 121 A | 0.999 | SIEMENS P1 TYPE PANELBOARD, EXISTING 10K RATED BREAKERS | |
| LN1 | SEP | X400 | EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE | | | 267 A | 0.428 | SIEMENS P1 TYPE PANELBOARD | |
| LN2 | LN1 | X400 | EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE | | | 151 A | 0.428 | SIEMENS P1 TYPE PANELBOARD | |
| LN3 | LN1 | X70 | EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE | | | 10 A | 0.438 | SIEMENS P1 TYPE PANELBOARD | |

| ELECTRIC BREAKER DIRECT BUY SCHEDULE | | | | |
|--------------------------------------|-------------------|---------|--|----------------------|
| PANEL NAME | TYPE | VOLTAGE | BREAKER QUANTITIES | SHORT CIRCUIT RATING |
| LE | Branch Panelboard | 208 V | (5) 20A / 1P, (2) 20A / 1P(G), (1) 20A / 2P(G) | EXISTING |
| LN3 | Branch Panelboard | 208 V | (2) 20A / 1P(G), (1) 20A / 2P(G) | EXISTING |



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.

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 CIRCUIT BREAKERS FOR EXISTING PANELS, LISTED IN THE ELECTRIC BREAKER DIRECT BUY SCHEDULE ABOVE. REFER TO PANEL SCHEDULES FOR PANELBOARD INFORMATION.

| SWITCHBOARD: SEP | | | | | | | | | |
|---|-------|----------------|-------|---------------|-----|------------------------------------|---|-------------------------------|-----------|
| SUPPLY FROM: UTILITY | | | | | | FAULT CURRENT (A): 37981 | | | |
| LOCATION: ELECTRIC ROOM 22 | | | | | | SHORT CIRCUIT RATING (A): EXISTING | | | |
| DISTRIBUTION SYSTEM: 208/120V 3PH 4W | | | | | | ENCLOSURE TYPE: NEMA 1 | | | |
| MAINS RATING (A): 2500 | | | | | | SURGE SUPPRESSION: | | | |
| MAINS TYPE: FUSED - BOLTED PRESSURE | | | | | | ULISE: Yes | | | |
| 200% NEUTRAL: | | | | | | ISOLATED GROUND: | | | |
| FEEDER ID: X2500 | | | | | | PHASE: Existing | | | |
| FEEDER: EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE | | | | | | | | | |
| NOTES: | | | | | | | | | |
| CKT | TRIP | FRAME | POLES | VD% | AWG | QND | CIRCUIT DESCRIPTION | | LOAD |
| 1 | 400 A | 400 A | 3 | SL | SL | SL | (EX) LN1 | | 96.10 kVA |
| 2 | 200 A | 200 A | 3 | SL | SL | SL | (EX) LE | | 44.73 kVA |
| 3 | -- | -- | 3 | -- | -- | -- | ALL OTHER SWITCHES ARE EXISTING TO REMAIN | | -- |
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| 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 | | 4274 VA | | 70.00% | | 2990 VA | | | |
| Lighting | | 360 VA | | 125.00% | | 450 VA | | | |
| Motor | | 0 VA | | 0.00% | | 0 VA | | | |
| Non-Continuous | | 1865 VA | | 100.00% | | 1865 VA | | | |
| Receptacle | | 5190 VA | | 100.00% | | 5190 VA | | | |
| PANEL TOTALS | | | | | | | | | |
| METERED PEAK DEMAND (PER NEC 220.87): 362000.0 VA | | | | | | | | | |
| ADDED CONNECTED LOAD: 11629 VA | | | | | | | | | |
| DEMAND CALCULATION NOTES: ESTIMATED DEMAND 139.66 kVA, ADD 105% EXISTING METERED DEMAND | | | | | | | | | |
| TOTAL DEMAND: 462955.1 VA | | | | | | | | | |
| TOTAL DEMAND AMPS: 1285 A | | | | | | | | | |

PARTIAL SINGLE LINE DIAGRAM
SCALE: NONE

