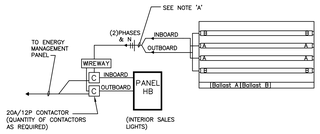


Sales Area FBay Fixtures "B11"

B11

REFERENCE FIXTURE

Light Levels:

LEVEL '1' INBOARD BALLAST 'ON'
OUTBOARD BALLAST 'ON'

LEVEL '2' INBOARD BALLAST 'OFF'
OUTBOARD BALLAST 'ON'

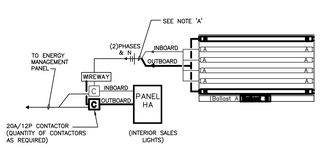
LEVEL '3' INBOARD BALLAST 'OFF'
OUTBOARD BALLAST 'OFF'

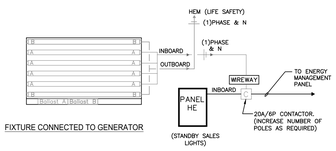
Notes:

'A' MULTI CIRCUITS SERVED FROM CIRCUIT BREAKERS TO PROVIDE COMMON CONTROL PER NEC REQUIREMENT.

'B' CIRCUITING OF FIXTURES ALLOWS FOR STAGES OF LIGHTING SET BACK (LEVELS). WHEN ORIENTING CIRCUITS WITHIN FIXTURE, ENSURE THE CIRCUITS PROVIDE A CONSISTENT AND UNIFORM PATTERN AS SET BACKS OCCUR.

'C' DIAGRAM ILLUSTRATES CONTROL CAPABILITY FOR TWO LIGHT LEVELS (LEVELS 1, 2)





FIXTURE CONNECTED TO GENERATOR

Sales Area FBay Fixtures "B10"

B10G B10

REFERENCE FIXTURES

Light Levels:

LEVEL '1' INBOARD BALLAST 'ON'
OUTBOARD BALLAST 'ON'

LEVEL '2' INBOARD BALLAST 'ON'
OUTBOARD BALLAST 'OFF'

LEVEL '3' INBOARD BALLAST 'OFF'
OUTBOARD BALLAST 'ON'

LEVEL '4' INBOARD BALLAST 'OFF'
OUTBOARD BALLAST 'OFF'

Notes:

'A' MULTI CIRCUITS SERVED FROM CIRCUIT BREAKERS TO PROVIDE COMMON CONTROL PER NEC REQUIREMENT.

'B' CIRCUITING OF FIXTURES ALLOWS FOR STAGES OF LIGHTING SET BACK (LEVELS). WHEN ORIENTING CIRCUITS WITHIN FIXTURE, ENSURE THE CIRCUITS PROVIDE A CONSISTENT AND UNIFORM PATTERN AS SET BACKS OCCUR.

'C' DIAGRAM ILLUSTRATES CONTROL CAPABILITY FOR THREE LIGHT LEVELS (LEVELS 1, 2, 3)

WIRING DIAGRAM

Scale: N.T.S.

NOTES: (MARKETPLACE ISLAND)

2. THE EXHAUST HOODS TYPICALLY ARE SUPPLIED WITH THE LIGHT FIXTURE INSTALLED. KROGER TO SUPPLY (1) 18 WATT LED FOR EACH LIGHT FIXTURE INSTALLED IN HOOD.
3. ALL LINEAR LAMPS TO BE 3500K LAMPS, UNLESS NOTED OTHERWISE.
4. LED FIXTURES IN BACKROOM AREAS TO BE INSTALLED 16'-0" ABOVE FLOOR OR AT THE BOTTOM OF STEEL. LED FIXTURES IN DOCK AREA TO BE INSTALLED AT THE BOTTOM OF STEEL.
5. ANY DECOR IS SHOWN AS REFERENCE ONLY. REFER TO DECOR PLANS FOR FINAL LOCATION OF GRAPHICS.
6. SELF SERVICE AND SERVICE CASES THAT FALL UNDER A SOFFIT ARE NOT DEPICTED ON THIS DRAWING. WHEN THESE CASES HAVE INTERNAL LIGHTS, THEY SHALL BE CIRCUITED PER CROSS HATCHED CASES ON PLAN.
8. SPECIAL LIGHTING CONDITIONS --

PRODUCE/FLORAL DEPT'S: STORE AMBIENT LIGHTING REDUCED BY OVER HALF, AND TRACK FIXTURES ADDED AS SHOWN. PRODUCE LIGHTING TRACKS ARE TO BE POSITIONED THROUGHOUT THE DEPARTMENT TO ACCOMMODATE THE MOBILITY OF PRODUCE DEPARTMENT FIXTURES. USE TRACK COMBINATIONS SO ELECTRICAL CIRCUITS COMPLY WITH 2014 NEC 220.43 (B) -- USE WITH CURRENT LIMITERS. USE TRACK COMBINATIONS SO ELECTRICAL CIRCUITS DO NOT EXCEED 1920 WATTS (FOR 20 AMP CIRCUIT), WHEN INCLUDING CURRENT LIMITERS. REFER TO TRACK/CURRENT LIMITER MATRIX FOR REFERENCE ON SITEFOLIO. CURRENT LIMITER SHOWN ON EVERY PIECE OF TRACK.

THE USE OF TRACK LIGHTING IS INTENDED TO HIGHLIGHT INDIVIDUAL AREAS, AND NOT INTENDED TO PROVIDE UNIFORM LIGHT LEVELS ON DISPLAYS. USING SOME JUDGMENT, TRACK SHOULD PROVIDE COVERAGE TO CASES AND BE AESTHETICALLY PLEASING. NO TRACK SHOULD EXTEND OVER THE SALAD OR OLIVE BAR, SINCE THE LIGHTS CREATE GLARE ON THE SNEEZE GUARD.

MOUNT BOTTOM OF TRACK 11'-9" AFF.

OTHER TRACK LIGHTING: TRACKS NOT RELATED TO DECOR TO BE MOUNTED AT 11'-9" ABOVE FLOOR TO ALIGN WITH PRODUCE & FLORAL TRACK.

WALL WASH (NO GRAPHICS): AA1 & AA2 FIXTURES TO BE WITHIN 4'-0" OF WALL, PROVIDING ILLUMINATION ON WALL. WHERE THERE IS NO SPECIFIC WALL WASH FIXTURES, THE PERIMETER 'B' TYPE FIXTURES TO BE CIRCUITED SIMILARLY. UN-LIGHTED WALLS CAN GIVE A DEPARTMENT A DARK APPEARANCE, WHICH CAN LEAD TO PHOTOCELL SET-UP THAT LEAVES THE AMBIENT LIGHTS ON LONGER THAN NECESSARY. ADDITIONALLY, WHERE THERE ARE LARGE EXPANSES OF WALLS WITHOUT SPECIFIC WALL WASH OR DECOR LIGHTING, THE PERIMETER AMBIENT LIGHTS TO BE WIRED, SO THEY CAN STAY ON FOR THE SAME PURPOSE.

ARTISAN BREAD: TRACK TO HIGHLIGHT OPEN FRESH PRODUCT ALONG CASELINE.

COSMETICS/OTC: DO NOT INDICATE TRACK LIGHTING IN THIS AREA. FIXTURES ARE BACKLIT WITH VALENCE AND SHELF LIGHTING.

APPAREL (DIP): USE TYPE "TR33" LED TRACKHEAD ON GRAPHICS AND DISPLAYS, MOUNTING HEIGHT 14'-0".

DRY AGED BEEF COOLER: (WHEN APPLICABLE) USE TYPE "M14" BY THE WINDOW INSIDE THE COOLER.

MURRAY'S CHEESE: (WHEN APPLICABLE) REFER TO MURRAY'S CHEESE LIGHTING ON THIS SHEET.

9. PREP. AREAS, SERVICE AREAS, PHARMACY, ETC., SHALL HAVE CEILING LIGHT FIXTURES POSITIONED OVER ALL WORK SURFACES.
10. NOT USED.
11. "TR24" TRACK LIGHT FIXTURES ARE TO BE PLACED SO THAT ENTIRE LARGE DECOR ELEMENT IS COVERED WITH A WASH OF LIGHT. IF MULTIPLE HEADS ARE NEEDED TO LIGHT SIGN, USE A CONTINUOUS PIECE OF TRACK.
12. TRACK LIGHT FIXTURES and TRACKS FINISHES:
    TR33, TR32 & TR24 -- LIGHT FIXTURES TO BE ALUMINUM HAZE & TRACKS TO BE SILVER, IN BOTH OPEN CEILING STORES AND STORES WITH CEILING.
13. TYPE "M8" TO BE LOCATED OVER GRINDER IN THE COOLER. CODE MAY VARY BUT REQUIRES AT LEAST 50 FC OVER WORK SURFACE OF GRINDER, SLICER AND SAWS, AND 10 FC THROUGHOUT. (IF THE GRINDER IS NOT LOCATED INSIDE THE COOLER, USE ONLY TYPE "M13" TO ACHIEVE LIGHT LEVEL IN THE COOLER). IF GRINDER IS IN PREP AREA, USE STANDARD 2x4 LIGHTS TO ACHIEVE LIGHTING LEVELS. FIXTURES OVER THIS EQUIPMENT SHOULD BE ON THE LIFE SAFETY.
14. NO SURFACE MOUNTED ELECTRICAL CONDUITS PERMITTED TO BE EXPOSED IN MEAT OR PRODUCE PREP. AREA.
15. MINIMIZE EXPOSED SURFACE MOUNTED ELECTRICAL CONDUITS LOCATED IN WALK-IN COOLER & FREEZER.
16. MOTION SENSORS ARE TO BE INSTALLED ONLY ON FROZEN FOOD CASES THAT ARE IN AN AISLE. DO NOT INSTALL ON END CAPS OR CASES THAT ARE PERPENDICULAR TO THE END OF AN AISLE FOR ASSISTANCE IN DETERMINING PROPER PLACEMENT OF MOTION SENSORS AND ALSO FOR CONTRACTORS FAMILIAR WITH THE INSTALLATION PROCESS CONTACT THE DIVISION ENERGY ENGINEER. REFER TO INSTALLATION INSTRUCTIONS DOCUMENT LOCATED ON SITEFOLIO.
17. LIGHT FIXTURE TRACK FOR TR32 TO BE INSTALLED APPROXIMATELY 12" FROM FRONT EDGE OF SEAFOOD CASE., TO REDUCE GLARE ON THE GLASS OF THE OPEN SEAFOOD CASE. SEE SECTION 'A-A' ON THIS SHEET.
18. ACCENT LIGHT TYPICALLY RELATES TO MERCHANDISE OR DECOR THE RELATIONSHIP NEEDS TO BE UNDERSTOOD. DIMENSIONS TO BE TAKEN FROM FIXED ELEMENTS (COLUMNS, WALLS, DROP PARTITION, ETC.).
19. REFER TO FINAL SITE LIGHTING PHOTOMETRICS FOR WALLPACK TYPE AND LOCATION.
20. CURRENT A & E STANDARDS CALLS FOR THE PHOTOLUMINESCENT EXIT SIGNS TO BE INDICATED ON THE LIFE SAFETY PLAN.
21. NEED 4FC OF LIGHTING TO CHARGE PHOTOLUMINESCENT EXIT SIGNS. PROVIDE OVERHEAD LIGHTS ON EMERGENCY CIRCUIT NEAR EXITS TO CHARGE THE EXIT SIGNS.

LIGHTING FIXTURE KEY:

** Refer to Sitefolio Section 'Sitefolio/Files/Capital/Enterprise Sourcing/Direct Buy Owner Furnished Products Information/Lighting _Interior_Fixtures/"Lighting Master Fixture Schedule" for Fixture Manufacturer & Lamp Information **

Type	Symbol	Mounting Height	Fixture Usage
Interior Light Fixtures			
AA1		Bottom of Joist, unless noted otherwise	Wall Wash
AA2		Bottom of Joist, unless noted otherwise	Wall Wash – where applicable.
B10	B10	FBay – Suspended 16'-0"	Sales Area, Vestibule.
B11	B11	FBay – Suspended 16'-0" or As Noted	Sales Area
C1		Ceiling Grid	Pharmacy, Counsel Rooms, Food Prep areas, Office Area.
C8	C8	Drywall Ceiling / Ceiling Grid	Restrooms (Prismatic), Quiet Room
CC	CC	Ceiling Grid	Manager's Office, HR Office, Office Area.
CC1	CC1	Ceiling Grid	Prep, Hallways (Prismatic)
CC2	CC2	Ceiling Grid	Hallways
D		Varies, Refer to Plan	Storage, Back Room, Dock Area, ECR Room, Loss Prevention.
D1		Varies, Refer to Plan	Storage, Back Room, Dock Area, ECR Room, Loss Prevention.
K5		Suspended 7'-6" (Fresh Meat & Deli Island Cases) Suspended 9'-0" (Floral, if applicable)	Refrigerated Fresh Meat and Deli Island Cases. Floral, if applicable. Refer to Plan for Length of Lighting Fixture
L18		Recessed	Recessed in Ceiling of Fitting Room, TLC Waiting Area.
L19		Recessed	Recessed in Fitting Room Ceiling, Beverage Center, Patio Entry.
L21		Recessed	Seafood & Meat Service Canopy. (DELETE, if no Canopy).
M		Surface Mount	Meat Prep Areas, Produce Prep Areas.
M1		Surface Mount	Meat Prep Areas
M8		Surface Mount	Meat Cooler over Grinder, or Meat Saw – Where Applicable.
M13		Surface Mount	All Refrig, Coolers, Retarders & Freezer Boxes, Floral Cooler (LED).
P24		Suspended Bottom of Pendent 6'-6"	Wine & Beer Tasting. DO NOT Install Glass Shield.
P29		Suspended Bottom of Pendent 8'-0"	Bakery
P31		Suspended Bottom of Pendent 8'-0"	Deli
P32		Suspended Bottom of Pendent 8'-0"	Meat & Seafood
P38	P38	Suspended Bottom of Pendent 7'-6"	Seating Area
RR1	RR1	Surface Mount	Canopy Surface Mounted.
S7		Wall Mount	Dock light fixtures (LED)
TR24		Bottom of trackhead even with Top of Graphic	Accent light for large graphics. Front Wall Graphics.
TR29	TR29 on Track / TR29 Mono Point	Varies, see Plan	Accent lights for Displays (LED narrow flood). Apparel, Floral, Produce, Deli, Bakery, Vestibule, Murray's Cheese.
TR30	TR30 on Track / TR30 Mono Point		Track Light (LED narrow flood). Adult Beverage, Kitchen Place, Deli, Bakery, Seafood.
TR31	TR31 on Track	Track mounted on dropped ceiling.	Wine Bar
TR33	on Track / Mono Point	Varies, see Plan	Accent lights for Displays (LED narrow flood). Apparel, Floral, Produce, Deli, Vestibule.
TR32	on Track / Mono Point		Track Light (LED narrow flood). Adult Beverage, Kitchen Place, Deli, Bakery, Seafood, Murray's Cheese.
2' TRACK		Coordinate Track Height with Fixture Height indicated above	Track part for trackheads such as TR33's, TR32's and TR31's.
4' TRACK			Track part for trackheads such as TR33's, TR32's and TR31's.
8' TRACK			Track part for trackheads such as TR33's, TR32's and TR31's.
12' TRACK			Track part for trackheads such as TR33's, TR32's and TR31's.
POWER FEED			Track part for trackheads such as TR33's, TR32's and TR31's.
CONNECTOR			Track part for trackheads such as TR33's, TR32's and TR31's.
FLEX CONNECTOR			Track part for trackheads such as TR33's, TR32's and TR31's.
CANOPY ADAPTER			Adapter for Single Point Mounting (No Track) for TR33 and TR32, 5-3/8 inches square, install directly to outlet box.
CURRENT LIMITER	¤		Use with track
Exterior Light Fixtures			
NN13			Exterior wall fixtures above exit doors (LED)(connected to generator)
WALLPACK			Exterior wall fixtures

"E" is to be used for stores that are not utilizing the generator, battery back-up ballast required. For stores with generator, the "E" is not required in the nomenclature.

CUT SHEETS FOR LIGHT FIXTURES ARE LOCATED IN: SITEFOLIO\FILES\CAPITAL\ENTERPRISE SOURCING\DIRECT BUY OWNER FURNISHED PRODUCTS INFORMATION\LIGHTING INTERIOR FIXTURES\ CUT SHEETS\KROGER STANDARD INTERIOR LIGHTING FIXTURES ALL.

MASTER FIXTURE SCHEDULE IS LOCATED IN: SITEFOLIO\FILES\CAPITAL\ENTERPRISE SOURCING\DIRECT BUY OWNER FURNISHED PRODUCTS INFORMATION\LIGHTING INTERIOR FIXTURES\ LIGHTING MASTER FIXTURE SCHEDULE.

The Kroger Co.
Track/Current Limiter Matrix

Continuous Length (LF = Linear Feet)	EATON - Single Circuit Track			EATON - Two Circuit Track (for CA - Title 24 compliance ONLY)		
	Type	Catalog Number	Wattage	Type	Catalog Number	Wattage
2 LF Track	CL10	LC901CB120	120	CL20	LC941CB120CB120	240
4 LF Track	CL10	LC901CB120	120	CL20	LC941CB120CB120	240
8 LF Track	CL11	LC901CB300	300	CL20	LC941CB120CB120	240
12 LF Track	CL11	LC901CB300	300	CL20	LC941CB120CB120	240
16 LF Track	CL12	LC901CB600	600	CL21	LC941CB300CB300	600
20 LF Track	CL12	LC901CB600	600	CL21	LC941CB300CB300	600
24 LF Track	CL12	LC901CB600	600	CL21	LC941CB300CB300	600
28 LF Track	CL12	LC901CB600	600	CL21	LC941CB300CB300	600
32 LF Track	CL13	LC901CB960	960	CL22	LC941CB600CB300	900
36 LF Track	CL13	LC901CB960	960	CL22	LC941CB600CB300	900
40 LF Track	CL13	LC901CB960	960	CL22	LC941CB600CB300	900
44 LF Track	CL13	LC901CB960	960	CL22	LC941CB600CB300	900
48 LF Track	CL14	LC901CB1200	1,200	CL23	LC941CB600CB600	1,200
52 LF Track	CL14	LC901CB1200	1,200	CL23	LC941CB600CB600	1,200
56 LF Track	CL14	LC901CB1200	1,200	CL23	LC941CB600CB600	1,200
60 LF Track	CL14	LC901CB1200	1,200	CL23	LC941CB600CB600	1,200
64 LF Track (60 LF Track, Current Limiter, 4 LF Track)	CL15	LC903CB1200CB120	1,320	CL24	LC943CB1200CB120	1,320
68 LF Track (60 LF Track, Current Limiter, 8 LF Track)	CL15	LC903CB1200CB120	1,320	CL24	LC943CB1200CB120	1,320
72 LF Track (60 LF Track, Current Limiter, 12 LF Track)	CL16	LC903CB1200CB300	1,500	CL25	LC943CB1200CB300	1,500
76 LF Track (60 LF Track, Current Limiter, 16 LF Track)	CL16	LC903CB1200CB300	1,500	CL25	LC943CB1200CB300	1,500
80 LF Track (60 LF Track, Current Limiter, 20 LF Track)	CL17	LC903CB1200CB600	1,800	CL26	LC943CB1200CB600	1,800

LIMITER IS INSTALLED ON EACH PIECE OF TRACK. IF YOU EXCEED THE WATTAGE ON A PIECE OF TRACK, THE CORRECT CURRENT LIMITER SHOULD BE SELECTED.

12/22/2016

LIGHTING SENSOR SYMBOL LEGEND:

** Refer to Sitefolio Section 'Sitefolio/Files/Capital/Enterprise Sourcing/Direct Buy Owner Furnished Products Information/Lighting _Interior_Fixtures/"Lighting Master Fixture Schedule" for Lighting Sensor Manufacturer & Model **

TS1	TIMER SWITCH
TS3	3-WAY TIMER SWITCH
	SINGLE POLE LIGHT SWITCH – (3) 3-WAY, (4) 4-WAY, (PL) PILOT --- AS REQUIRED.
OT	LIGHT LEVEL SENSOR, SEE NOTE No. 7
OS1	ONE WAY CEILING MOUNTED LIGHTING SENSOR WITH SWITCHPACK ABOVE CEILING. CONNECT SENSOR TO SWITCHPACK WITH #18 AWG CLASS 2 CONDUCTORS.
OS2	TWO WAY LIGHTING SENSOR SUSPENDED 12'-6" AB. FL. or AT CEILING WITH SWITCHPACK MOUNTED AT BAR JOIST. CONNECT SENSOR TO SWITCHPACK WITH #18 AWG CLASS 2 CONDUCTORS.
OS3	TWO WAY LIGHTING SENSOR SUSPENDED 12'-6" AB. FL. or AT CEILING WITH SWITCHPACK MOUNTED AT BAR JOIST. CONNECT SENSOR TO SWITCHPACK WITH #18 AWG CLASS 2 CONDUCTORS.
OS4	TWO WAY LIGHTING SENSOR SUSPENDED 15'-6" AB. FL. or AT CEILING WITH SWITCHPACK MOUNTED AT BAR JOIST. CONNECT SENSOR TO SWITCHPACK WITH #18 AWG CLASS 2 CONDUCTORS.
OS5	ONE WAY WIDE ANGLE OCCUPANCY SENSOR.
OS6	MOTION SENSOR – WET LOCATION OCCUPANCY SENSOR.
OS7	MOTION SENSOR – PASSIVE INFRARED OCCUPANCY SENSOR.
MS1	MOTION SENSOR SWITCH **
US1	OCCUPANCY SENSOR SWITCH
MO1	MOMENTARY OVERRIDE

ALL LIGHTING CONTROLS NOT PART OF THE BUILDING EMS TO BE SET WITH A MINIMUM ON TIME OF 15 MINUTES

** PROVIDE MOTION SENSOR SWITCHES IN AREAS WHERE THERE IS INTERMITTENT OCCUPANCY.
EXAMPLES: BREAK ROOMS, CBT, CONFERENCE ROOMS, POS, ECR, FMTV, FILE MANAGEMENT, PRICE CHANGING, ETC.

issued for: BIDS AND PERMITS 01/31/2024
90% OWNER REVIEW 10/23/2023

PROPOSED MINOR INTERIOR REMODEL FOR:

Kroger

STORE NO. D-409
12731 S SAGINAW ST
GRAND BLANC, MI 48439

THE KROGER CO. OF MICHIGAN

jeffery a. scott architects p.c.
32316 grand river ave. suite 200
farmington, michigan 48336-3261
(248) 476-8800 fax (248) 476-8833

LIGHTING DETAILS & SCHEDULES

project no. 23042
sheet no. E6.2.5

PLOT FULL SIZE @ 30"x42"

copyright © 2024