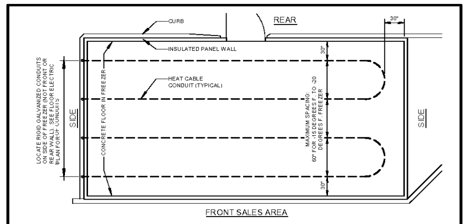
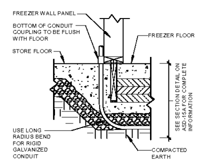


PLAN - CONDUIT LAYOUT

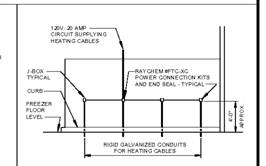
NOTES:

1. RAYCHEM (TYCO THERMAL CONTROLS) TYPE "RAYSOL 1" 120 VOLT SELF REGULATING HEATING CABLE. CUT TO LENGTH AS NEEDED AND TERMINATE IN APPROPRIATE JUNCTION BOX LOCATED ON EITHER SIDE OF FREEZER BOX (NOT FRONT OR REAR WALL) USING RAYCHEM TYPE FTC-XC TERMINATION KITS. DEPENDING ON FREEZER SIZE AND LAYOUT, THE POWER CONNECTION AND END SEAL MAY BE LOCATED IN THE SAME OR IN DIFFERENT JUNCTION BOXES. MAXIMUM "RAYSOL 1" CABLE FOOTAGE PER 120 VOLT, 20 AMP CIRCUIT = 160' (30 AMP CIRCUIT = 240'). PER NEC MUST USE 30MA GFEP BREAKER INSTALL IN 1" CONDUIT WITH WIDE RADIUS BENDS. MAX. 360 DEGREES OF CONDUIT TURN PER RUN. FOR FLOOR CONSTRUCTION CONSISTING OF 4" CONCRETE, 6" OF STYROFOAM INSULATION, 3" CONCRETE, FOLLOWED BY THE HEATING CABLE INSTALLED IN 4" OF FINE GRAVEL. THE FOLLOWING HEATING CABLE SPACING SHOULD BE USED: -15 DEGREES F TO -20 DEGREES F TEMP. = MAX. OF 60" SPACING. SPACING BETWEEN HEATING CABLE AND OUTSIDE WALLS SHOULD NOT EXCEED 50% OF THE SPACING. RESULTING FLOOR SURFACE HEAT FLUX EQUALS 0.60 WATT / FT. SQ.
CONTACT INFORMATION: RELCON, INC., P.O. BOX 307, CONNERSVILLE, IN. 47331. PH: 765-825-2194 (SCOTT).
EMAIL: info@ relconinc.com

2. ALL CONDUITS SHALL BE 1" RIGID GALVANIZED.



SECTION SHOWING CONDUIT UNDER FREEZER FLOOR

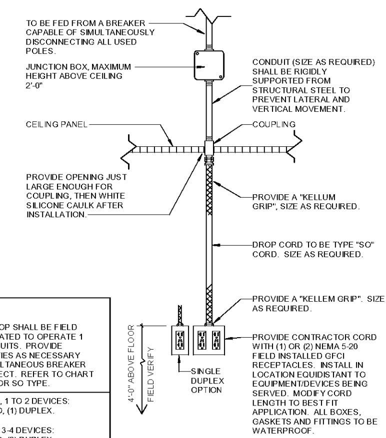


SIDE ELEVATION OF FREEZER

NOTICE:
THIS DETAIL IS BASED ON HEATING CABLE MANUFACTURER'S RECOMMENDATION. INSTALLING ELECTRICIAN WILL NEED TO MODIFY CONDUIT LAYOUT FOR VARIOUS OPERATING TEMPERATURES AND SIZE OF WALK-IN FREEZERS AS OUTLINED IN NOTE No. 1.

UNDERFLOOR HEATING FOR FREEZER 200 SQ. FT. AND GREATER	DATE: 11/10/16 DRAWN: ZAW
MASTER SPECIFICATION DETAIL	ESD-7

ORIGINAL ISSUE DATE 2/20/06



NOTE:
CORD DROP SHALL BE FIELD COORDINATED TO OPERATE 1 TO 3 CIRCUITS. PROVIDE HANDLE TIES AS NECESSARY FOR SIMULTANEOUS BREAKER DISCONNECT. REFER TO CHART BELOW FOR SO TYPE.

1 CIRCUIT, 1 TO 2 DEVICES:
3 WIRE SO, (1) DUPLEX.

1 CIRCUIT 3-4 DEVICES:
3 WIRE SO, (2) DUPLEX.

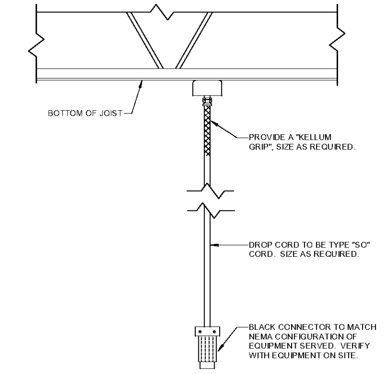
2 CIRCUIT, 1 TO 2 DEVICES:
4 WIRE SO, (1) DUPLEX WITH TABS CUT.

2 CIRCUIT 3-4 DEVICES:
4 WIRE SO, (2) DUPLEX, EACH TO ONE CIRCUIT.

3 CIRCUIT 3-4 DEVICES:
5 WIRE SO, (2) DUPLEX, (1) WITH TABS CUT

PENDENT MULTI RECEPTACLE FOR CEILING	DATE: 1/31/17 DRAWN: ZAW
MASTER SPECIFICATION DETAIL	ESD-16A

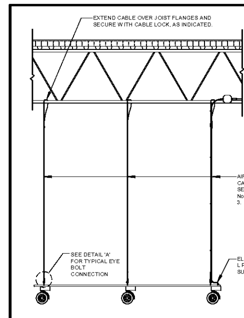
ORIGINAL ISSUE DATE 10/9/13



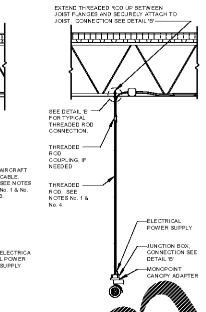
NOTE:
COORDINATE EXACT LOCATION OF RECEPTACLE WITH KROGER PROJECT MANAGER

OPEN CEILING 'NEMA' CONFIGURATION PENDENT	DATE: 1/31/17 DRAWN: ZAW
MASTER SPECIFICATION DETAIL	ESD-16D

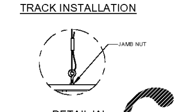
ORIGINAL ISSUE DATE 1/31/17



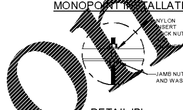
TRACK INSTALLATION



MONOPOINT INSTALLATION



DETAIL 'A'



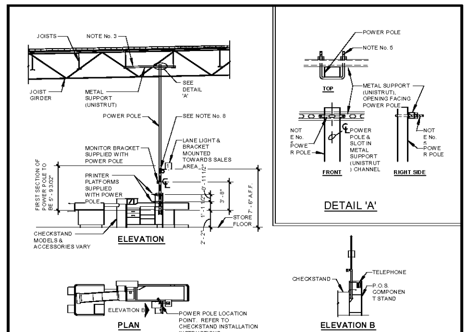
DETAIL 'B'

NOTES:

1. THIS DETAIL IS [illegible] WITH THE INSTALLATION [illegible] TR18 AND TR19 LED TRACK LIGHT FIXTURES. HANG ELECTRIFIED [illegible] MULTIPLE FIXTURES WITH AIRCRAFT [illegible] AND THREADED ROD FOR MONOPOINT FIXTURE INSTALLATION. THREADED ROD SHOULD BE USED TO SUPPORT ELECTRIFIED TRACK AT LOCATIONS WHERE HVAC DIFFUSERS
2. FIXTURE SUPPORT AND POWER CONNECTION FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AS REQUIRED BY GOVERNING CODES.
3. INSTALL ELECTRIFIED TRACK WITH MIN. 1/16" DIAMETER STANDARD STEEL WIRE ROPE OR STAINLESS STEEL AIRCRAFT CABLE WITH CABLE LOCK CONNECTED TO 1/4" EYE BOLT THRU [illegible] DRILLED HOLES WITH LOCK NUT INSERT ON BOTTOM AND STANDARD JAMB NUT ON TOP OF THE TRACK. 4' TRACK TO BE INSTALLED BY 2 POINTS OF ATTACHMENT, 8' BY 3 POINTS AND 12' BY 4 POINTS.
4. MONOPOINT FIXTURE TO BE HUNG BY 1/4" THREADED ROD ATTACHED TO STEEL AND JUNCTION BOX, FOR LONGER DROPS INSTALL THREADED COUPLING AS [illegible] AS POSSIBLE. ATTACH TO BOTTOM CHORD OF JOIST BY EXTENDING THREADED ROD BETWEEN JOIST FLANGES AND HOLE IN JUNCTION BOX [illegible] ATTACHING WITH LOCK NUT WITH NYLON INSERT ON TOP AND STANDARD JAMB NUT & WASHER ON BOTTOM.
5. [illegible] MOUNT [illegible] THREADED ROD MISSES EXISTING STRUCTURAL STEEL, PROVIDE & SECURELY ATTACH METAL SUPPORT BETWEEN STEEL [illegible] CHANNEL 7/8" MIN, 1" x 1" ANGLE IRON OR 3/4" IMC OR RIGID CONDUIT.
6. LIGHT TRACK LENGTH AND HEIGHT ABOVE FLOOR VARIES PER LOCATION. REFER TO LIGHTING PLAN FOR MOUNTING HEIGHT AND LOCATIONS.

LED TRACK LIGHT & MONOPOINT DETAIL	DATE: 11/5/13 DRWAN: ZAW
MASTER SPECIFICATION DETAIL	ESD-50

ORIGINAL ISSUE DATE 11/2/12



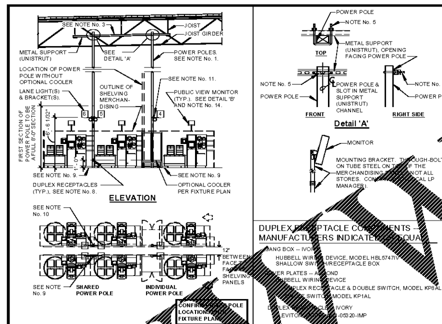
NOTES:

1. FOLLOW INSTRUCTIONS FROM CHECKSTAND MANUFACTURER SUPPLIED WITH POWER POLES FOR ASSEMBLY & INITIAL INSTALLATION.
2. POWER POLE WEIGHT IS SUPPORTED BY CHECKSTAND. CUT TOP OF POWER POLE AS NECESSARY AND ATTACH TO BUILDING STRUCTURE.
3. WHEN TOP OF POWER POLE MISSES EXISTING STRUCTURAL STEEL, PROVIDE & SECURELY ATTACH A METAL SUPPORT, SUCH AS UNISTRUT CHANNEL, ACROSS NEAREST JOISTS.
4. SECURELY ATTACH POWER POLE TO EXISTING STRUCTURE OR NEW METAL SUPPORT. DO NOT DRILL THRU, RUN BOLTS THRU, OR SCREW INTO POLE, TO PREVENT SHARP EDGES WHICH COULD DAMAGE COMMUNICATION CABLES.
5. 3/8" x 5" INSIDE LENGTH x 4" INSIDE WIDTH SQUARE U-BOLT, TO CONNECT TO SLOTTED METAL SUPPORT (UNISTRUT) CHANNEL, WITHOUT DRILLING, IF POWER POLE IS CENTERED ON A SLOT IN METAL SUPPORT (UNISTRUT) CHANNEL. DO NOT OVER TIGHTEN U-BOLT NUTS, LEAVE LOOSE ENOUGH TO PERMIT VERTICAL MOVEMENT OF ROOF STRUCTURE. SIMILAR UNISTRUT HARDWARE MAY BE USED IN LIEU OF U-BOLTS, TO SECURELY ATTACH POWER POLES.
6. HEIGHTS INDICATED RESULT IN POSITIONING BRACKETS TO PARTIALLY COVER SOME ACCESS HOLES.
7. METAL SUPPORT (UNISTRUT), SQUARE U-BOLT AND ATTACHMENT HARDWARE, MC CABLE SUPPLIED AND INSTALLED BY CONTRACTOR. ALL OTHER COMPONENTS SUPPLIED BY OWNER.
8. LANE LIGHT IS SUPPLIED WITH 10'-0" LONG CORD AND STANDARD GROUNDED PLUG. CONTRACTOR TO RUN LANE LIGHT CORD THROUGH PREDRILLED HOLE IN POWER POLE AND OUT BOTTOM OF POWER POLE TO FACTORY INSTALLED RECEPTACLE IN CHECKSTAND BASE DESIGNATED FOR LANE LIGHT, RECEPTACLE IS CONTROLLED BY FACTORY INSTALLED SWITCH LOCATED ON CHECKSTAND.
BEFORE TIGHTENING HARDWARE ON LANE LIGHT, ADJUST TO PARTIALLY CONCEAL HOLE. INSTALL SHELVES AND MONITOR BRACKET AT PREDRILLED LOCATIONS. CONTRACTOR TO RUN POWER CORD THROUGH PREDRILLED HOLES IN POWER POLE TO BE PLUGGED INTO DESIGNATED RECEPTACLES.
12. ONE COMPARTMENT POWER POLES, LANE LIGHTS, BRACKETS AND STANDS COME FROM CHECKSTAND MANUFACTURER SUPPLIED BY OWNER INSTALLED BY CONTRACTOR.
13. ALL HIGH VOLTAGE CONDUCTORS MUST BE WRAPPED WITH STEEL JACKETING (MC CABLE).

e-PRO NUMBERS:
Power Pole #K-0001345
Light Arm Bracket With Lamp #K-0015235
Cube for Lane Light #K-0037228
Express Topper #K-0037230
ADA Topper #K-0015366 (Deactivated)
Family Friendly Topper (Fred Meyer Only) #K-0045002
Express Lane Topper (Fred Meyer Only) #K0045000

CHECKOUT POWER POLE AND LANE LIGHT INSTALLATION	DATE: 6/5/15 DRAWN: ZAW
MASTER SPECIFICATION DETAIL	ESD-62

ORIGINAL ISSUE DATE 12/19/07



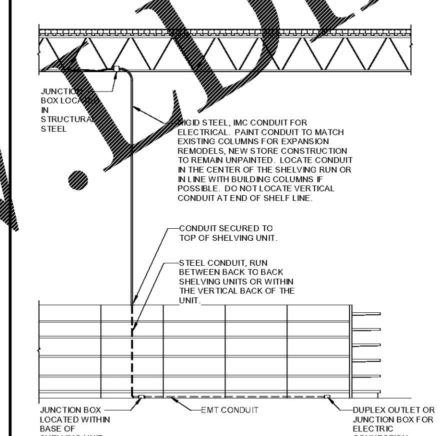
DUPLEX RECEPTACLE COMPONENTS -- MANUFACTURERS INDICATED OR EQUAL
GANG BOX -- IVORY
HUBBELL WIRING DEVICE, MODEL HBL5747IV SHALLOW SWITCH/RECEPTACLE BOX
COVER PLATES -- ALMOND
HUBBELL WIRING DEVICE
DUPLEX RECEPTACLE & DOUBLE SWITCH, MODEL KP8AL
[illegible] SWITCH MODEL KP1AL
DUPLEX [illegible] IVORY
LEVITON [illegible]-05320-IMP

NOTES:

1. FOLLOW INSTRUCTIONS FROM CHECKSTAND MANUFACTURER SUPPLIED WITH POWER POLES FOR ASSEMBLY & INITIAL INSTALLATION. POWER POLES AS FOLLOWS:
- PRE-CUT ACCESS HOLE [illegible] OF POLE AT LIGHT BRACKET MOUNTING HEIGHT.
- PRE-CUT ACCESS HOLE ON [illegible] POLE AT HEIGHT INDICATED ON ABOVE ELEVATION FOR DUPLEX RECEPTACLE.
2. POSITION POWER POLE AGAINST [illegible] SELF-SCAN SHELF THEN BOLT POLE BASE FLANGE TO FLOOR. CUT TOP OF POWER POLE AS NECESSARY AND [illegible] TOP OF POWER POLE TO [illegible] STRUCTURE.
3. WHEN TOP OF POWER POLE MISSES EXISTING STRUCTURAL STEEL, PROVIDE & SECURELY ATTACH A METAL SUPPORT, SUCH AS UNISTRUT CHANNEL ACROSS NEAREST JOISTS.
4. SECURELY ATTACH [illegible] POLE TO EXISTING STRUCTURE OR NEW METAL SUPPORT (UNISTRUT). DO NOT DRILL THRU, RUN BOLTS THRU, OR SCREW INTO POLE, TO PREVENT SHARP EDGES WHICH COULD DAMAGE COMMUNICATIONS CABLES.
5. 3/8" x 5" INSIDE LENGTH x [illegible] WIDTH SQUARE U-BOLT TO CONNECT TO SLOTTED METAL SUPPORT (UNISTRUT) CHANNEL, WITHOUT DRILLING, IF POWER POLE IS CENTERED [illegible] IN METAL SUPPORT (UNISTRUT) CHANNEL. DO NOT OVER TIGHTEN U-BOLT NUTS, LEAVE LOOSE ENOUGH TO PERMIT VERTICAL MOVEMENT OF [illegible] STRUCTURE. SIMILAR UNISTRUT HARDWARE MAY BE USED IN LIEU OF U-BOLTS, TO SECURELY ATTACH POWER POLES.
6. HEIGHTS INDICATED RESULT IN POSITIONING BRACKETS TO PARTIALLY COVER SOME ACCESS HOLES.
7. METAL SUPPORT, SQUARE U-BOLT AND ATTACHMENT HARDWARE, MC CABLE SUPPLIED AND INSTALLED BY CONTRACTOR. ALL OTHER COMPONENTS SUPPLIED BY OWNER.
8. CONTRACTOR TO SUPPLY AND INSTALL DUPLEX RECEPTACLES & COVER PLATES. CONTRACTOR TO COMPLETE WIRING INSTALLATION BETWEEN ELECTRIC CIRCUIT AND RECEPTACLES.
9. CONTRACTOR TO FIELD FABRICATE AND INSTALL STAINLESS STEEL PROTECTOR FOR WIRING FROM POWER POLE AND BETWEEN CHECKSTAND, FASTEN TO FLOOR AS NEEDED.
10. REMOVE COVER FROM SECOND HOLE FOR BACK TO BACK LIGHTING BRACKET INSTALLATION.
11. LANE LIGHT IS SUPPLIED WITH 20'-0" LONG CORD AND STANDARD GROUNDED PLUG. CONTRACTOR TO RUN LANE LIGHT CORD THROUGH POWER POLE, AND OUT OF POWER POLE TO FIELD FABRICATED WIRE PROTECTOR, TO INSIDE OF SELF-SCAN UNIT. LANE LIGHT TO BE POWERED FROM REQUIRED CIRCUIT INSIDE SELF-SCAN UNIT. EXCESS CORD TO BE COILED IN BOTTOM OF SELF SCAN UNIT.
12. ONE COMPARTMENT POWER POLES, LIGHTS, SWITCHES AND RECEPTACLES SUPPLIED AND INSTALLED BY CONTRACTOR.
13. ALL HIGH VOLTAGE CONDUCTORS MUST BE WRAPPED WITH STEEL JACKETING (MC CABLE).
14. MONITOR MOUNTED TO THE TOP STEEL TUBE OF THE MERCHANDISING RACK, CENTERED ON THE CENTER LINE OF CHECKSTAND SCALE. NOT ALL STORES. CONFIRM LOCATION WITH LOCAL LP MANAGER.

SELF-SCAN CHECKOUT POWER POLE AND LANE LIGHT INSTALLATION	DATE: 5/9/18 DRAWN: ZAW
MASTER SPECIFICATION DETAIL	ESD-62A

ORIGINAL ISSUE DATE 5/7/10



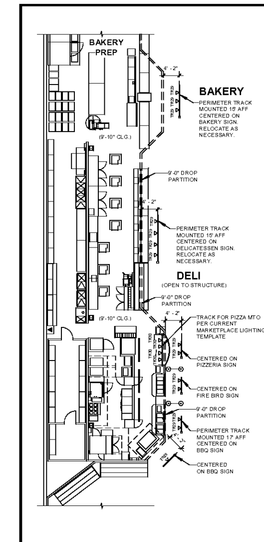
FRONT ELEVATION

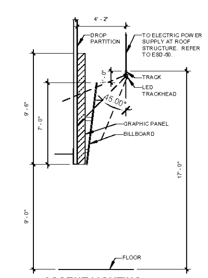
NOTES:

1. DASHED LINES INDICATE HIDDEN CONDUIT IN SHELF BACK AND BASE.

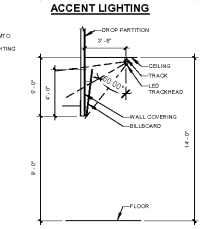
SHELVING ELECTRIC FROM OVERHEAD	DATE: 11/10/16 DRAWN: ZAW
MASTER SPECIFICATION DETAIL	EISD-2

ORIGINAL ISSUE DATE 7/23/12





ACCENT LIGHTING



ACCENT LIGHTING AT DROPPED CEILING

NOTE:
NO TRACK LIGHTS AT CEILINGS BELOW 14'-0".

LIGHTING DETAILS - DECOR	DATE: 4/9/18 DRAWN: ZAW
MASTER SPECIFICATION DETAIL	ESD-48

ORIGINAL ISSUE DATE 4/9/18

ROBERTSON LOIA ROOF
ARCHITECTS & ENGINEERS
3460 Preston Ridge Road . Suite 275 . Alpharetta, GA. 30005
770.674.2600 / www.rlrpc.com

GEORGIA REGISTERED No. 24803 ENGINEER SCOTT E. WALKER
03/06/2020

Kroger GA-291
6199 Hwy 92
Acworth, GA 30102

FOR:
The Kroger Company
2175 Park Lake Drive, Atlanta, GA

REVISIONS

SHEET TITLE
ELECTRICAL STANDARD DETAILS

DATE
03-06-20

PROJECT NUMBER
20-108

SHEET NUMBER
E5.1

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