

MASTER EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
3	INCANDESCENT, L.E.D., "H.I.D." OR ROUND TWIN TUBE FLUORESCENT TYPE FIXTURE; "A" REFERS TO DESIGNATION IN THE FIXTURE SCHEDULE; "b" REFERS TO SWITCH CONTROL; "3" REFERS TO CIRCUIT NUMBER.
A	FLUORESCENT OR L.E.D. FIXTURE, NOTATIONS SAME AS ABOVE.
3	WALL SWITCH; SINGLE POLE UNLESS NOTED 3-OR-4 WAY, 2-GANG BOX WITH 1-GANG DEVICE RING, MOUNT 48" TO TOP OF BOX ABOVE FLOOR OR 48" TO TOP OF BOX WHEN LOCATED ABOVE COUNTER/ETC; "T" INDICATES WITH PLOT LIGHT. PROVIDE HORIZONTALLY MOUNTED SWITCHES WITH VERTICAL ON/OFF OPERATION WHERE SWITCHES ARE LOCATED ABOVE COUNTERS.
3	DUPLEX RECEPTACLE, 120 VOLT, 20 AMP., 2-GANG BOX WITH 1-GANG DEVICE RING, MOUNT 44" TO TOP OF BOX ABOVE FINISHED FLOOR WHEN LOCATED ABOVE COUNTER TOP OR WORK TABLES AND 18" +/- ABOVE FLOOR TO CENTERLINE OF BOX ELSEWHERE UNLESS NOTED OTHERWISE.
3	DUPLEX ISOLATED GROUNDING RECEPTACLE, 20 AMP., 120 VOLT, 2-GANG BOX WITH 1-GANG DEVICE RING, SAME MOUNTING AS FOR DUPLEX RECEPTACLE ABOVE. PULL A SEPARATE #12 AWG GROUNDING CONDUCTOR ALL RUNS IN ADDITION TO CONDUCTORS INDICATED. TOTAL OF TWO #12 AWG GROUNDING CONDUCTORS REQUIRED IN PVC CONDUIT.
3	GFCI TYPE DUPLEX PLUG RECEPTACLE, 120 VOLT, 20 AMP., 2-GANG BOX WITH 1-GANG DEVICE RING, MOUNTING SIMILAR TO STANDARD DUPLEX RECEPTACLE ABOVE. "W" INDICATES PROVIDE WEATHERPROOF WHILE IN USE. GASKET/WEATHERPROOF COVER PLATE WHEN INSTALLED IN PREP AREA OR ANY OTHER WET AREA INSIDE BUILDING.
3	DOUBLE DUPLEX RECEPTACLE, 20 AMP., MOUNT 8" +/- TO BOTTOM OF BOX ABOVE COUNTER TOP AT WORK COUNTERS AND 18" +/- ABOVE TO BOTTOM OF BOX ELSEWHERE UNLESS NOTED OTHERWISE.
3	SINGLE RECEPTACLE, 20 AMP. OR 480 VOLT, 1-PHASE, AMPS AS NOTED, 1-GANG DEVICE RING, MOUNT 18"(46cm) TO BOTTOM OF BOX ABOVE FLOOR UNLESS NOTED OTHERWISE. SEE EQUIPMENT SCHEDULE FOR EXACT REQUIREMENTS.
3	SINGLE RECEPTACLE, 208 OR 480 VOLT, 3-PHASE, AMPS AS NOTED, 2-PHASE BOX WITH 1-GANG DEVICE RING, MOUNT 18"(46cm) TO BOTTOM OF BOX ABOVE FLOOR UNLESS NOTED OTHERWISE. SEE EQUIPMENT SCHEDULE FOR EXACT REQUIREMENTS.
3	FLOOR OUTLET; SEE DETAIL "E" INDICATES 120 VOLT DUPLEX ELECTRIC RECEPTACLE; "T" INDICATES TELEPHONE JACK; "D" INDICATES DATA JACK; "G" INDICATES ISOLATED GROUNDING RECEPTACLE, VERIFY EXACT LOCATION TO INSTALLATION.
3	PANELBOARD; RECESSED OR SURFACE MOUNTED AS INDICATED, TOP 6"-0"(1.5m) ABOVE FLOOR ADJUSTED TO OCCUR AT MASONRY JOINT; IN HANDICAPPED ACCESSIBLE OR ADAPTABLE SPACES, MOUNT PANEL SO THAT THE TOP OPERABLE BREAKER IS NO MORE THAN 48" ABOVE FINISHED FLOOR LEVEL. SEE PANELBOARD SCHEDULE.
3	CONDUIT EXTENDED TO PANELBOARD (MINIMUM OF 3/4" SIZE CONDUIT); PANEL "A", CIRCUITS 143; CROSS LINES INDICATE NUMBER OF NO. 10 AWG. 120V BREAKERS TO BE INSTALLED. MORE THAN TWO, NO SHARED NEUTRALS ARE ALLOWED. PROVIDE SEPARATE CODE SIZE EQUIPMENT GROUND CONDUCTOR IN ADDITION TO CONDUCTORS INDICATED.
3	CONDUIT RUN CONCEALED WITHIN WALL OR CEILING CONSTRUCTION (MINIMUM OF 3/4" SIZE CONDUIT). PULL A SEPARATE CODE SIZE EQUIPMENT GROUND CONDUCTOR IN ALL PVC CONDUIT RUNS IN ADDITION TO CONDUCTORS INDICATED. INCREASE CONDUIT SIZE IF REQUIRED TO ACCOMMODATE THIS CONDUCTOR.
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3	TELEPHONE OUTLET; 2-GANG BOX WITH 1-GANG DEVICE RING, TELEPHONE TYPE COVERPLATE WITH ONE (1) TELEPHONE JACK; EXTEND 1" MIN. SIZE CONDUIT WITH CAT5E CABLE(S) TO EQUIPMENT RACKS IN ECR ROOM UNLESS NOTED OTHERWISE. MOUNTING HEIGHT SAME AS FOR DUPLEX PLUG RECEPTACLE ABOVE UNLESS NOTED OTHERWISE.
3	DATA OUTLET; 2-GANG BOX WITH 1-GANG DEVICE RING, DATA JACK WITH DATA TYPE COVERPLATE WITH ONE (1) DATA JACK; EXTEND 1" MIN. SIZE CONDUIT WITH CAT5E CABLE(S) TO EQUIPMENT RACKS IN ECR ROOM UNLESS NOTED OTHERWISE. MOUNTING HEIGHT SAME AS FOR DUPLEX PLUG RECEPTACLE ABOVE UNLESS NOTED OTHERWISE.
3	ELECTRIC MOTOR REQUIRING CONNECTION; SIZE, USE AND LOCATION AS INDICATED. VERIFY LOCATION AND CONNECTIONS REQUIRED WITH MECHANICAL TRADE PRIOR TO ROUGH-IN. USE FLEXIBLE CONDUIT WITHIN 18"(46cm) OF EQUIPMENT. PROVIDE DISCONNECT SWITCH WHEN OUT OF SIGHT OF PANELBOARD.
3	MAGNETIC MOTOR STARTER; MOUNT 5'-8" ABOVE FLOOR. PROVIDE DISCONNECT SWITCH WHEN OUT OF SIGHT OF SUPPLYING PANELBOARD.
3	SURFACE METAL PULGMOLD RACEWAY WITH SINGLE 20 AMP, 120-VOLT RECEPTABLES 12" O.C., MOUNTING SIMILAR TO STANDARD DUPLEX RECEPTACLE ABOVE, PULL SEPARATE INSULATED #12 AWG GROUND CONDUCTOR.
3	TELEVISION OUTLET, 2-GANG BOX WITH 1-GANG DEVICE RING, MOUNT AND 1" CONDUIT WITH #10 & #10 GROUND FROM EACH CASE TO NEW DETROIT PANEL AND TERMINATE ON NEW #1/2 BREAKER(S) AS REQUIRED. MAXIMUM OF #10 & #10 GROUND PER 1" CONDUIT.
3	CORD DROP PLUG RECEPTACLE, 20 AMP, 120 VOLT, 2-GANG BOX WITH 1-GANG DEVICE RING. SEE ESD-16 OR ESD-16A.
3	FUSED DISCONNECT SWITCH, GENERAL DUTY TYPE, WEATHERPROOF OUTDOORS. PROVIDE FUSING OF SIZE AS IT APPEARS ON THE LABEL OF EQUIPMENT IN ACCORDANCE WITH N.E.C. MOUNT 60" ABOVE FINISHED FLOOR (A.F.F.) IN PREP AREAS UNLESS NOTED OTHERWISE.
3	EXIT SIGN WITH BUILT-IN BATTERY, "W" INDICATES WALL MOUNTED; "S" INDICATES SINGLE FACE; "D" INDICATES DOUBLE-FACE; "C" INDICATES CEILING MOUNTED. DIRECTIONAL ARROWS AS SHOWN.
3	EMERGENCY FLUORESCENT LIGHTING FIXTURE, CONNECTED TO EMERGENCY GENERATOR VIA AUTOMATIC TRANSFER SWITCH.
3	TELEPHONE TERMINAL SPACE, "T.T.S.", PROVIDE 3/4"(1.9cm) PLYWOOD BOARD BOLTED TO WALL, TOP 8'-0"(1.8m) ABOVE FLOOR, 5'-0"(1.5m) HIGH BY WIDTH SHOWN. PROVIDE P100 UNISTRUT ABOVE AND BELOW BOARD FOR ATTACHING CONDUIT TO WALL.
3	OCCUPANCY SENSOR SWITCH WITH 1-ZONE ON/OFF, DUAL TECHNOLOGY IR/ULTRASONIC, MOUNTING SAME A WALL SWITCH.
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WIRING DEVICE NOTE:  
ALL WIRING DEVICES LOCATED ADJACENT TO ONE ANOTHER AT THE SAME HEIGHT SHALL BE GROUPED TOGETHER WITH MULTI-GANG WALL PLATE WHEN POSSIBLE. HIGH VOLTAGE AND LOW VOLTAGE WIRING SHALL NOT BE INSTALLED IN SAME BOX.

- SPECIFIC POWER PLAN NOTES:
- CONNECT TO NEW CASE(S) TO EXISTING A/S HEATER, WIRING AS REQUIRED.
  - CONNECT TO NEW CASE FANS TO NEW PROTOCOL UNIT AS NOTED AS REQUIRED.
  - CONNECT TO NEW CASE(S) TO NEW CASE LIGHTS NEW PROTOCOL UNIT AS NOTED AS REQUIRED.
  - EXISTING CUSTOMER SERVICE COUNTER, FLORAL DEPARTMENT AND CASH WRAPS SHALL BE REFRESHED. CONTRACTOR REMOVE ALL EXISTING WIRING, CABLES, CONDUIT, ELECTRICAL OUTLETS AND ETC. BEFORE ALL CASE WORK CAN BE REFINISHED THEN INSTALL NEW CONDUIT, WIRING AND CABLES NECESSARY TO RECONNECT ALL EXISTING / RELOCATED EQUIPMENT AS REQUIRED.
  - CONNECT NEW EQUIPMENT AS REQUIRED, SEE "MASTER EQUIPMENT SCHEDULE ON SHEET E-1.3-1.
  - CONNECT NEW SELF-CONTAINED REFRIGERATION CASES FROM OVER-HEAD, SEE ESD-2.
  - PROVIDE AND INSTALL DUPLEX PLUG RECEPTACLE FLUSH IN LAY-IN CEILING, SEE ESD-16. VERIFY EXACT LOCATION WITH KROGER PROJECT MANAGER PRIOR TO ROUGH-IN.
  - CONNECT NEW AND OR RELOCATED EQUIPMENT TO EXISTING POWER, CONTROL, CIRCUITS AND TEMP. SENSOR AS REQUIRED.
  - EXTEND 1" CONDUIT WITH #10 & #10 GROUND PER CASE FROM ELECTRICAL DETROIT CIRCUITS TO NEW PROTOCOL UNIT AND CONNECT TO NEW ELECTRICAL DETROIT CIRCUITS AS REQUIRED.
  - TELEPHONE SHALL NOT ROUTE ANY ELECTRICAL CONDUITS, SPRINKLER PIPING, WATER PIPING, GAS PIPING, ETC. ACROSS TOP OF BALER.
  - TURN-UP NEW CONDUITS/UP EXISTING BUILDING COLUMNS TO AS HIGH AS POSSIBLE. PAINT EXPOSED CONDUIT(S) WITH TWO COATS OF PAINT TO MATCH COLUMNS AS REQUIRED.
  - PROVIDE AND INSTALL CONCEALED CONDUIT SYSTEM (1" MINIMUM CONDUIT SIZE) BETWEEN TELEPHONE OUTLETS AND THE NEAREST TELEPHONE TERMINAL SPACE (T.T.S.). PROVIDE AND INSTALL A PULL STRING (200 LB TEST) IN ALL TELEPHONE CONDUITS.
  - ELECTRICAL CONTRACTOR SHALL CONNECT NEW CHECK-OUT STANDS UNDER FLOOR DUCTS AS REQUIRED. CONNECT CASH REGISTER (CRM) BELTS & DATA CIRCUITS AS PER KROGER NEW CHECK-OUT STANDS REQUIREMENTS. CONTRACTOR SHALL FIELD VERIFY EXISTING UNDER FLOOR DUCT LOCATIONS PRIOR TO BID. CONTRACTOR SHALL INCLUDE IN BID PRICE ALL NECESSARY CONDUIT & TRIMMING TO CONNECT NEW CHECK-OUT STANDS AS REQUIRED. VERIFY REQUIREMENTS FOR NEW CHECK-OUT STANDS WITH KROGER PROJECT MANAGER PRIOR TO BID.
  - CONNECT NEW BALANCE LIGHTING AS REQUIRED. SEE ESD-2.
  - EXISTING DETROIT SERVING POS TERMINAL (DET20) AND DETROIT (DET30) SHALL HAVE A SEPARATE AND INDEPENDENT CIRCUIT CONNECTED TO EXISTING PANEL. "L" CIRCUITS MUST HAVE A SEPARATE AND INDEPENDENT GROUND WIRE AND SEPARATE AND INDEPENDENT NEUTRAL (CANNOT BE PHASED OUT PANEL). EACH DEDICATED BRANCH CIRCUIT SHALL BE AS FOLLOWS:
    - (3) NO. 10 AWG WIRES FOR EACH CIRCUIT (USE #8 AND FORMULAS OVER 150' BUT LESS THAN 150' - 10" USE #8 AWG FOR HOMERUNS OVER 150' - 10" BUT LESS THAN 150' - 10")
    - (1) DETROIT HOOD (BLACK, RED OR BLUE)
    - (1) ISOLATED NEUTRAL (WHITE INDEPENDENT INSULATED)
    - (1) ISOLATED GROUND (GREEN/YELLOW STRIP) INDEPENDENT INSULATED
  - SET DUPLEX PLUG RECEPTACLE FOR MIXING SYSTEM, VERIFY EXACT LOCATION WITH KROGER PROJECT MANAGER PRIOR TO ROUGH-IN.
  - CONTRACTOR SHALL PROVIDE AND INSTALL 3/4" CONDUIT WITH MONITORING AND ALARMING CAPABILITY AS PER THE DETROIT PROJECT MANUAL. THE SAME REF. SYSTEM NUMBERS AS LABELS INDICATED ON THE KROGER AND HUSMANN REF. DRAWINGS.
  - CONTRACTOR SHALL PROVIDE AND INSTALL 3/4" CONDUIT WITH SYSTEM IDENTIFICATION MARKING FOR 120 VOLTS, 1-PHASE AS PER "M" DRAWINGS FOR REF. TO NEW PROTOCOL UNIT. SEE REFERENCE DRAWINGS AND SPECIFICATIONS FOR EXACT REQUIREMENTS.
  - EXTEND 3/4" CONDUIT WITH CONTROL WIRING AS PER THE "DETROIT" MANUAL TO EXISTING "CPC" OR DETROIT CONTROL PANEL.
  - EXTEND 3/4" CONDUIT WITH CABLE FROM SCALES, TO A LOCATION AS DETERMINED BY KROGER PROJECT MANAGER, FOR REMOTE SCALE JUNCTION BOX IN CASHWARE. REQUIRED TO CONNECT DATA CABLE WITH CASE FAN.
  - CONTRACTOR SHALL PROVIDE AND INSTALL POWER PLENUM FOR POWER AND COMMUNICATIONS WIRING FOR TELEVISION AND RELOCATE CASH WRAPS AND RECONNECT TO EXISTING CIRCUITS IN EXISTING ELECTRICAL PANEL "A" AND "J" AS REQUIRED.
  - CONNECT NEW SELF-CONT. REF. CASE TO #10 & #10 GROUND, SEE ESD-2.
- PROVIDE AND INSTALL NEW GFCI PLUG RECEPTACLE ON ISLAND CASES KICK PLATE AS REQUIRED.
- CONNECT TO EXISTING EQUIPMENT TO NEW / EXISTING CIRCUIT 20/1 OR 20/2 BREAKERS WITH-IN EXISTING PANELS.
- CONNECT NEW PLUGS TO EXISTING SERV. 20/1 BREAKERS AS NOTED IN EXISTING PANEL AS INDICATED. MOUNT ADDITIONAL CONDUIT OUTLETS ON THE SIDE OF ISLAND REF. CASES AS REQUIRED. CONNECT TO SEPARATE 120 VOLT, 20 AMP CIRCUITS. DO NOT CONNECT CONDUIT OUTLETS ON THE SAME CIRCUITS WITH CASE FAN.
- SEE ESD-16 FOR COORD DROPS OR ESD-16A IN PREP AREAS.
- SET JUNCTION BOXES AT 72" A.F.F. AND CONNECT NEW Ovens AT 21.9 KW AT 208 VOLTS, 3-PHASE, EXTEND 1" CONDUIT WITH #10 & #10 GROUND. PROVIDE AND INSTALL NEW 80/3 SHUNT TRIP BREAKERS WITH IN EXISTING PANEL AS INDICATED.
- SET JUNCTION BOXES AND CONNECT NEW WEATS TO CO GASSES AT 208 VOLTS, 1-PHASE WITH FOUR 20 AMP CIRCUITS. EXTEND 1" CONDUIT WITH #10 & #10 GROUND AND INSTALL NEW FOUR 20/2 BREAKERS WITH IN EXISTING PANEL AS INDICATED.
- SET JUNCTION BOXES AND CONNECT NEW MENU BOARDS MOUNTED TO CEILING AS REQUIRED AT 120 VOLTS. PROVIDE AND INSTALL WALL SWITCH AS DIRECTED BY KROGER PROJECT MANAGER TO CONTROL MENU BOARDS. EXTEND 3/4" CONDUIT WITH #8-COAX CABLE FROM EACH TELEVISION TO EQUIPMENT RACKS IN ECR ROOMS.
- SET JUNCTION BOX AND CONNECT NEW FRITERS, 18.5 KW, 208 VOLTS, 3-PHASE, EXTEND 1 1/4" 3#1 & #8 GROUND (80/3 BREAKER WITH SHUNT TRIP COILS).
- ALTERNATE - EXISTING DISHWASHER IS BEING REPLACED WITH NEW UNIT OF THE SAME SIZE. CONNECT TO DISHWASHER TO THE EXISTING 20/3 CIRCUITS AS REQUIRED.
- EXISTING EXHAUST HOOD AND FAN IS BEING REPLACED WITH NEW UNIT. CONNECT NEW EXHAUST HOOD AND EXHAUST FAN (2.0 AMPS AT 120 VOLTS) TO THE EXISTING CIRCUIT(S) AS REQUIRED. CONNECT NEW HOOD TO EXISTING LIGHTING CIRCUIT. FIRE ALARM SYSTEM AND SHUNT TRIP WIRING AS REQUIRED.
- CONTRACTOR SHALL DISCONNECT ALL EXISTING SHELVING UNITS / IN-LINE SELF CONTAIN REF. CASES / BALANCE LIGHTING AND ETC. DURING THE FILTERING RESET PHASE OF THE PROJECT AS PER KROGER PROJECT MANAGER. CONTRACTOR SHALL RECONNECT ALL EXISTING SHELVING UNITS / IN-LINE SELF CONTAIN REF. CASES / BALANCE LIGHTING AND ETC. AFTER ALL THE SHELVING UNIT / IN-LINE SELF CONTAIN REF. CASES / BALANCE LIGHTING AND ETC. HAVE BEEN REINSTALLED BY THE FIXTURE CONTRACTOR.
- CONTRACTOR SHALL ADJUST EXISTING "QUE-VISION" SYSTEM SENSORS AS NECESSARY FOR NEW CHECK-OUT LANE LAYOUT. ADJUST EXISTING PLUG RECEPTABLES REQUIRED FOR "QUE-VISION" SYSTEM SENSORS AS NECESSARY.
- EXISTING GLASS DOOR CASES BEING REMOVED AND REPLACED WITH NEW SHELVING UNITS AS REQUIRED. CAP OFF EXISTING CIRCUITS IN EXISTING JUNCTION BOXES AS REQUIRED.
- CONNECT NEW ISLAND CASES TO NEW ELECTRICAL DETROIT PANELS IN EXISTING COMPRESSOR ROOM. EXTEND AND 1" CONDUIT WITH #10 & #10 GROUND FROM EACH CASE TO NEW DETROIT PANEL AND TERMINATE ON NEW #1/2 BREAKER(S) AS REQUIRED. MAXIMUM OF #10 & #10 GROUND PER 1" CONDUIT.
- CONNECT NEW PROTOCOL UNIT PS-B, 300 AMP CIRCUIT AT 208 VOLTS, 3-PHASE. SEE FEEDER DIAGRAM.
- CONNECT NEW PROTOCOL UNIT PS-C, 300 AMP CIRCUIT AT 208 VOLTS, 3-PHASE. SEE FEEDER DIAGRAM.
- CONNECT NEW PROTOCOL UNIT PS-D, 250 AMP CIRCUIT AT 208 VOLTS, 3-PHASE. SEE FEEDER DIAGRAM.
- SET GFCI DUPLEX PLUG RECEPTACLE +/- 18" A.F.F. BELOW SINK FOR REGR. PUMP CP-2 AT 120 VOLTS.



ARCHITECTURAL INC.  
1501 1/2 Main Street  
Knoxville, TN 37915  
615-546-5466 • fax: 615-673-3978  
www.dollarandfewers.com



NO. REVISIONS


A With-in-the-Walls Remodel for:  
**KROGER STORE #GA-414**  
4355 WASHINGTON ROAD, EVANS, GEORGIA 30809

**EQUIPMENT SCHEDULE AND LEGEND**

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KEVIN E. NORRIS  
REGISTERED ELECTRICAL ENGINEER  
1515 WALLWOOD ROAD  
KNOXVILLE, TN 37912  
615-546-5466