

SYMBOL LEGEND

1. NOT ALL SYMBOLS MAY BE APPLICABLE TO THIS PARTICULAR PROJECT.
2. MEASURE ALL DIMENSIONS TO DEVICE CENTERLINES.

DESCRIPTION	MTG HT	REMARKS
HOMERUN	-	ARROW REPRESENTS BRANCH CIRCUIT.
POWER POLE	-	-
LUMINAIRE	-	HALF SHADING REPRESENTS EMERGENCY.
STRIP LUMINAIRE	-	-
TRACK LIGHTING	-	PROVIDE ALL REQUIRED ACCESSORIES.
EMERGENCY LIGHTING UNIT	+96"	-
RECEPTACLE, SIMPLEX, NEMA 5-20R, FLOOR MOUNTED	FLOOR	-
RECEPTACLE, DUPLEX, NEMA 5-20R, FLOOR MOUNTED	FLOOR	-
RECEPTACLE, TWO GANG DUPLEX, NEMA 5-20R, FLOOR MOUNTED	FLOOR	-
RECEPTACLE, DUPLEX, NEMA 5-20R	+18"	MOUNT WITH GROUND ORIENTED DOWN. MOUNT AT +48" SERVING TABLETOPS.
RECEPTACLE, SIMPLEX, NEMA 5-20R	+18"	MOUNT WITH GROUND ORIENTED DOWN. MOUNT AT +48" SERVING TABLETOPS.
RECEPTACLE, TWO GANG DUPLEX, NEMA 5-20R	+18"	MOUNT WITH GROUND ORIENTED DOWN. MOUNT AT +48" SERVING TABLETOPS.
SPECIAL RECEPTACLE AS NOTED OR REQUIRED	+18"	MOUNT AT +48" SERVING TABLETOPS.
RECEPTACLE, CLOCK-TYPE, NEMA 5-20R	+96"	MOUNT WITH GROUND ORIENTED DOWN.
JUNCTION BOX	-	MAKE FINAL CONNECTION TO EQUIPMENT SERVED.
JUNCTION BOX, WALL MOUNTED	-	MAKE FINAL CONNECTION TO EQUIPMENT SERVED.
SWITCH, SPST, 20A	+48"	MOUNT WITH OFF ORIENTED DOWN. GANG WHERE PRACTICABLE.
SAFETY SWITCH, FUSED	-	SIZE AS NOTED OR REQUIRED.
SAFETY SWITCH, NON-FUSED	-	SIZE AS NOTED OR REQUIRED.
CONTACTOR	-	SIZE AS NOTED OR REQUIRED.
STARTER, MAGNETIC	-	SIZE AS NOTED OR REQUIRED.
STARTER, COMBINATION MAGNETIC	-	SIZE AS NOTED OR REQUIRED.
CONTROL PANEL	-	-
MOTOR, SINGLE PHASE	-	MAKE FINAL CONNECTION TO EQUIPMENT SERVED.
MOTOR, THREE PHASE	-	MAKE FINAL CONNECTION TO EQUIPMENT SERVED.

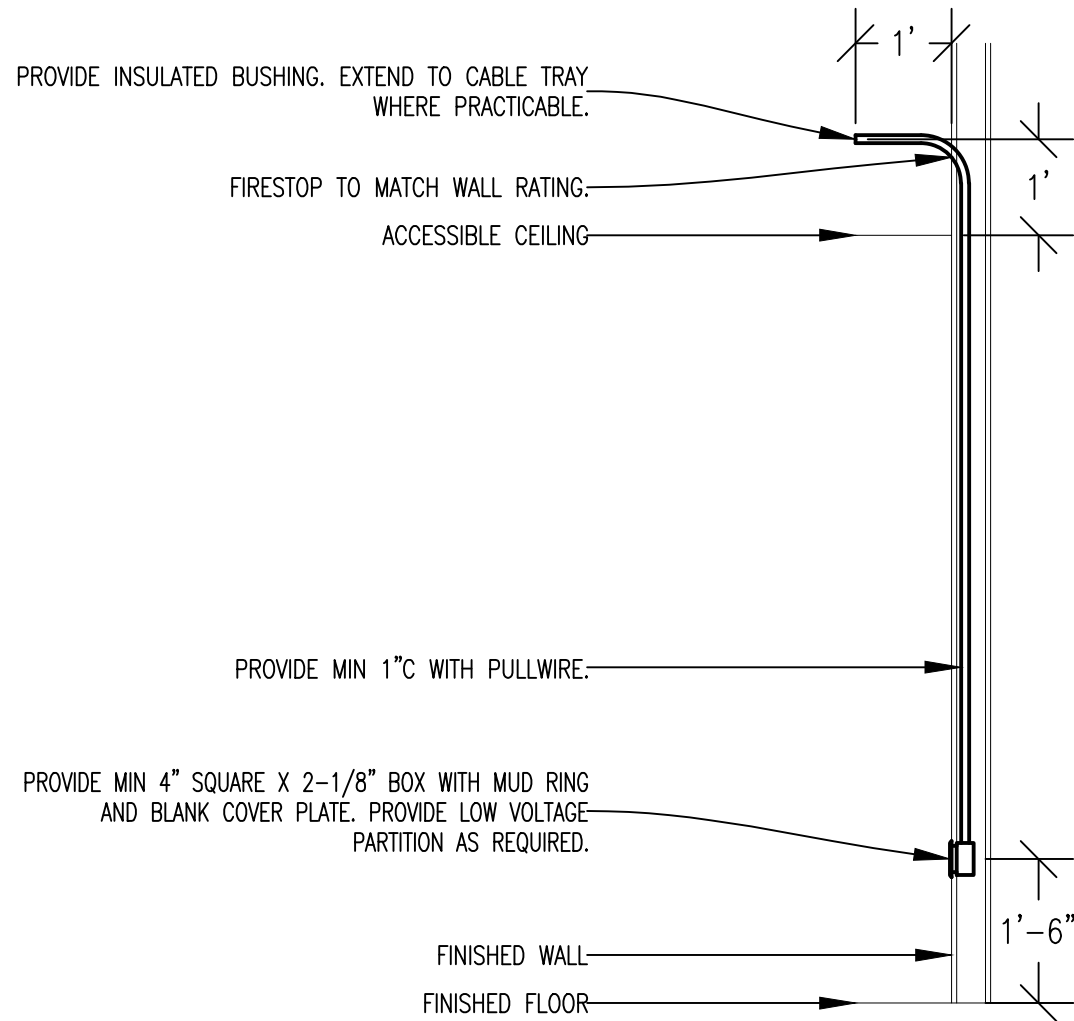
DESCRIPTION	MTG HT	REMARKS
DOOR RELEASE	-	-
ELECTRIC STRIKE	-	-
MAGNETIC LOCK	-	-
CARD READER	+48"	-
KEYPAD	+48"	-
FIRE ALARM ANNUNCIATOR PANEL	-	-
FIRE ALARM CONTROL PANEL	-	-
DIGITAL ALARM COMMUNICATOR TRANSMITTER	-	-
FIRE ALARM HORN-STROBE	-	-
FIRE ALARM STROBE	-	-
MANUAL PULL STATION, SINGLE ACTION	+48"	-
DETECTOR, SMOKE	CEILING	-
DETECTOR, CARBON MONOXIDE	CEILING	-
DETECTOR, HEAT	CEILING	-
DETECTOR, HYDROGEN	CEILING	-
FLOW SWITCH	-	-
TAMPER SWITCH	-	-
PANELBOARD	-	-
AUTOMATIC TRANSFER SWITCH	-	-
DATA OUTLET ROUGH-IN	+18"	-
DATA OUTLET FLOOR BOX	FLOOR	-
COMBINATION TELEPHONE/DATA ROUGH-IN	+18"	-
COMBINATION TELEPHONE/DATA FLOOR BOX	FLOOR	-
TELEPHONE OUTLET ROUGH-IN	+18"	-
TELEPHONE OUTLET FLOOR BOX	FLOOR	-
SPEAKER ROUGH-IN, CEILING MOUNTED	CEILING	-
SPEAKER ROUGH-IN	+96"	-

GENERAL ABBREVIATIONS

1P 2P 3P 4P 1W 2W 3W 4W A ABV AC AFCI AFF AFG AHJ AIC AL ARCH ATS A/V BLDG BLW C, COND CATV CB CKT CLG CLT CU CT COPPER CL DACT DACT DC D D, DED DISC DN DPST E EC EM, EMG EMT EOL EQPM, EQPT ENC F FBD FA FNC GC GFI, GFCI GND, GRD GRC HDA H, HORIZ HP HVAC HZ IAM IG JB KCMIL K/O	ONE POLE TWO POLE THREE POLE FOUR POLE ONE WIRE TWO WIRE THREE WIRE FOUR WIRE AMPERE ABOVE ALTERNATING CURRENT, ARMORED CABLE ARC FAULT CIRCUIT INTERRUPTER ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION AMPERE INTERRUPTING CAPACITY ALUMINUM ARCHITECT AUTOMATIC TRANSFER SWITCH AUDIOVISUAL BUILDING BELOW CONDUIT CABLE TELEVISION CIRCUIT BREAKER CIRCUIT CEILING CURRENT TRANSFORMER COPPER CENTERLINE DIGITAL ALARM COMMUNICATOR/ TRANSMITTER DIRECT CURRENT DELTA DEDICATED DISCONNECT DOWN DOUBLE POLE DOUBLE THROW DOUBLE POLE SINGLE THROW EXISTING ELECTRICAL CONTRACTOR WIRED ON EMERGENCY CIRCUIT ADDITIONAL BRANCH CIRCUITS AS REQUIRED FROM NEAREST SUITABLE PANELBOARD. SPOT SINGLE POLE SINGLE THROW SHIELDED TWISTED PAIR SUSPENDED SWITCH SWITCHBOARD TEL TYP UG UTP V VT UNO WFE W WH WP WT WW XTMR XP ZAM +72	KVA KILOVOLT AMPERE KILOVOLT AMPERE REACTIVE KILOWATT LPA LIGHTING LTC METAL CLAD CABLE MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MAIN DISTRIBUTION PANEL MINIMUM MISC MISCELLANEOUS MLO MAIN LUGS ONLY MOUNTING N/A NOT APPLICABLE NC NORMALLY CLOSED NEC NATIONAL ELECTRICAL CODE NOT IN CONTRACT NL NIGHT LIGHT NMC NONMETALLIC SHEATHED CABLE NRTL NATIONALLY RECOGNIZED TESTING LABORATORY # NOT TO SCALE NTS NOT TO SCALE PB PULLBOX PC PLUMBING CONTRACTOR PH, Ø PHASE PNL PANELBOARD PP POWER PANEL PR PAIR PRI PRIMARY PT POTENTIAL TRANSFORMER PWR POWER R RELOCATED RSC RIGID STEEL CONDUIT S SURFACE MOUNTED SEC SECONDARY SN SOLID NEUTRAL SPOT SINGLE POLE DOUBLE THROW SPST SINGLE POLE SINGLE THROW STP SHIELDED TWISTED PAIR SUSPENDED SW SWITCH SWD SWITCHBOARD TEL TELEPHONE TERM TERMINAL(S) TV TELEVISION TYP TYPICAL UG UNDERGROUND UNO UNLESS NOTED OTHERWISE V VOLT VT VAPORTIGHT UNO UNLESS NOTED OTHERWISE WFE WATT WH WATHOUR WP WEATHERPROOF WT WATERTIGHT WW WIREDWAY XTMR TRANSFORMER XP EXPLOSIONPROOF ZAM ZONE ADAPTER MODULE +72 MOUNTING UNITS TO CENTERLINE ABOVE FINISHED FLOOR OR GRADE
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GENERAL NOTES

1. NOT ALL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES MAY BE APPLICABLE TO THIS PROJECT.
2. DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS ONLY.
3. DRAWINGS INDICATE ONLY INTENT; IDENTIFIED CIRCUITS BASED ON ACCESSIBLE EQUIPMENT AND DOCUMENTS, WHICH MAY CONTAIN INACCURACIES. FIELD VERIFY AVAILABLE CIRCUITS, LOADS, AND EQUIPMENT, LUMINAIRE, AND DEVICE QUANTITIES. BALANCE LOADS AND MAKE ADJUSTMENTS AS REQUIRED FOR ACTUAL FIELD CONDITIONS.
4. MAINTAIN OPERATION OF ALL EXISTING ELECTRICAL SYSTEMS, SUBSYSTEMS, AND PORTIONS THEREOF, TO REMAIN. INCLUDE IN BASE BID ALL TEMPORARY WORK REQUIRED TO MAINTAIN OPERATION DURING ESTABLISHED CONSTRUCTION PHASING.
5. THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL."
6. WHERE THE TERM "RELOCATE" IS USED IN THESE DRAWINGS, PROVIDE NEW DEVICES, COVER PLATES, AND WIRING METHODS MATCHING THE ORIGINAL DEVICES, COVER PLATES, AND WIRING METHODS WHERE PRACTICABLE. EXTEND EXISTING WIRING METHODS AS REQUIRED TO ACCOMMODATE NEW EQUIPMENT LOCATIONS. PROVIDE ADJUSTMENTS OR ADDITIONAL BRANCH CIRCUITS AS REQUIRED FROM NEAREST SUITABLE PANELBOARD.
7. CONDUIT AND WIRE SIZES INDICATED ARE MINIMUM REQUIREMENTS. OPTIONALLY COMBINE HOMERUNS, DERATE CONDUCTORS, AND MAKE ADJUSTMENTS AS REQUIRED FOR SPECIFIC METHOD OF INSTALLATION.
8. ENSURE FEEDER VOLTAGE DROP SHALL NOT EXCEED 2% AND BRANCH CIRCUIT VOLTAGE DROP SHALL NOT EXCEED 3%. MAKE ADJUSTMENTS AS REQUIRED FOR SPECIFIC METHOD OF INSTALLATION. SHOULD ANY EQUIPMENT FAIL TO OPERATE PROPERLY WITHIN THE WARRANTY PERIOD DUE TO IMPROPER VOLTAGE, CORRECT IMPROPER VOLTAGE WITHIN SEVENTY-TWO HOURS UPON RECEIVING WRITTEN NOTICE.
9. ENSURE ALL LUMINAIRES ARE FURNISHED WITH FACTORY LABELS INDICATING MAXIMUM LAMP WATTAGES NOT EXCEEDING THOSE SPECIFIED.
10. ENSURE ALL LUMINAIRES ARE FURNISHED WITH FACTORY LABELS INDICATING COMPATIBILITY WITH UL FIRE-RATED CEILING ASSEMBLIES AS REQUIRED.
11. INCLUDE IN BASE BID AN ADD/DEDUCT UNIT PRICE FOR EACH TYPE OF EMERGENCY OR EXIT LIGHTING COMPLETELY INSTALLED, INCLUDING, BUT NOT LIMITED TO, THE LUMINAIRE AND BRANCH CIRCUIT WIRING METHODS.
12. PROVIDE GFCI PROTECTION FOR ALL RECEPTACLES IN NON-DWELLING UNIT KITCHENS AS REQUIRED BY CODE.
13. PROVIDE INDIVIDUAL GFCI RECEPTACLES TO LOAD SIDE OF GFCI RECEPTACLE.
14. NOT USED.
15. PROVIDE A SUITABLE DISCONNECTING MEANS FOR EACH FLUORESCENT LUMINAIRE AS REQUIRED BY CODE.
16. PROVIDE A SUITABLE DISCONNECTING MEANS IMMEDIATELY ADJACENT TO ALL EQUIPMENT AS REQUIRED BY CODE WHERE SUCH DISCONNECTING MEANS IS NOT PROVIDED AS A FACTORY OPTION.
17. NOT USED.
18. COORDINATE WITH OTHER TRADES AND PROVIDE ALL HARD-WIRED CONNECTIONS AND RECEPTACLE, PLUG, AND CORD SETS AS REQUIRED FOR OTHER TRADES' EQUIPMENT UNLESS NOTED OTHERWISE. MAKE ADJUSTMENTS AS REQUIRED TO ACCOMMODATE CHANGES ORIGINATED BY OTHER TRADES OR IN ACTUAL ELECTRICAL SERVICE REQUIREMENTS UPON EQUIPMENT DELIVERY.
19. TEMPORARILY REMOVE AND REINSTALL ALL WORK REQUIRED FOR INSTALLATION OF NEW WALL FINISHES AS INDICATED ON SHEET A11.4.
20. PROVIDE REQUESTED DATA FOR ARC FLASH; SEE ELECTRICAL SPECIFICATIONS. INSTALL ALL PANEL LABELS FURNISHED BY KROGER.
21. REFER TO PHASING PLAN. PROVIDE TEMPORARY POWER REQUIRED TO KEEP OPERATING STORE IN FULL OPERATION AT ALL TIMES.



1 TELEPHONE/DATA RECEPTACLE ROUGH-IN

SCALE: 1/2"=1'

BIDS AND PERMITS
Issued for:
90% OWNER REVIEW

01/31/2024
10/23/2023

PROPOSED MINOR INTERIOR
REMODEL FOR:


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

THE KROGER CO. OF MICHIGAN



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ELECTRICAL COVER SHEET

project no.
23042

sheet no.
E0

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PLOT FULL SIZE • 30"x42"