

ALL PANELBOARDS, TRANSFORMERS, TRANSFER SWITCH KIT AND DISCONNECTS WILL BE SUPPLIED BY THE OWNER (O'REILLY). ELECTRICAL GEAR SHALL BE DIRECT ORDERED AND/OR RELEASED FROM THE LISTED ELECTRICAL EQUIPMENT DISTRIBUTOR. SEE "ELECTRIC SERVICE RESPONSIBILITIES" FOR ADDITIONAL CLARIFICATION:

GRAYBAR ELECTRIC CO. INC. 11885 LACKLAND ROAD ST. LOUIS, MO. 63146

GRAYBAR O'REILLY TEAM EMAIL: oreilly@graybar.com TOLL FREE: (314) 573-2080

MP PANELBOARD SCHEDULE table with columns for MAINS, VOLTAGE, ACCESSORIES, and a detailed list of circuits including lighting, building, and site lighting.

PLP PANELBOARD SCHEDULE table with columns for MAINS, VOLTAGE, ACCESSORIES, and a detailed list of circuits including lathe, saw, crimpers, and various receptacles.

E TRANSFER SWITCH SCHEDULE table listing circuit breakers, load descriptions, and breaker ratings.

NOTE: ALL BRANCH CIRCUITS SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR ROUTED WITH THE CIRCUIT CONDUCTORS. THIS MEANS ALL CONDUITS MUST HAVE A GREEN WIRE INSTALLED IN THEM AND SIZED IN ACCORDANCE WITH TABLE 250.122 OF THE N.E.C.

WIRING & LABELING OF EXIT & EMERGENCY LIGHT CIRCUITS. 1. SEE DETAIL 1/E1 FOR WIRING OF EXIT & EMERGENCY LIGHTS ON THESE CIRCUITS. 2. ALL EXIT & EMERGENCY LIGHTING CIRCUITS SHALL BE LABELED BY THE CONTRACTOR ON THE "PANEL DIRECTORY". (SPEC: NEPA 70 408.4 & 700.12.)

EQUIPMENT LABELS CHART

Table with columns for EQUIPMENT, SERVICE DISCONNECT, OPTIONAL STANDBY SOURCE, GENERATOR POWER INLET, SERIES RATING, AVAILABLE CURRENT. Lists items like DISCONNECT, GENERATOR POWER INLET, MP, PLP, E, CT CABINET.

GENERATOR POWER INLET LABEL

PERMANENT LABEL SHALL BE 2 x 3 IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. LABEL TO BE PLACED 6 INCHES ABOVE GENERATOR RECEPTACLE.

WARNING: FOR CONNECTION OF A NONSEPARATELY DERIVED (FLOATING NEUTRAL) SYSTEM ONLY (MAX. 6,000 WATT GENERATOR)

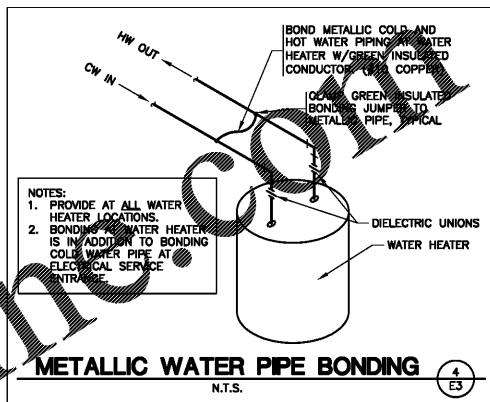
OPTIONAL STANDBY SOURCE LABEL

PERMANENT LABEL SHALL BE 2 x 3 IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. LABEL TO BE PLACED ON DISCONNECT DOOR.

CAUTION TWO SOURCES OF SUPPLY. STANDBY POWER SOURCE: PORTABLE 6kw GENERATOR LOCATION: OVERHEAD DOOR.

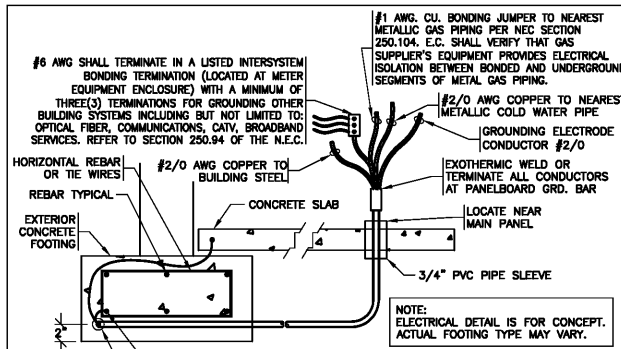
SERVICE DISCONNECT LABEL

THE SERVICE DISCONNECT MEANS SHALL BE PROPERLY MARKED "SERVICE DISCONNECT". REFER TO SPEC SECTION 28 00 20 FOR FURTHER IDENTIFICATION AND REQUIREMENTS.



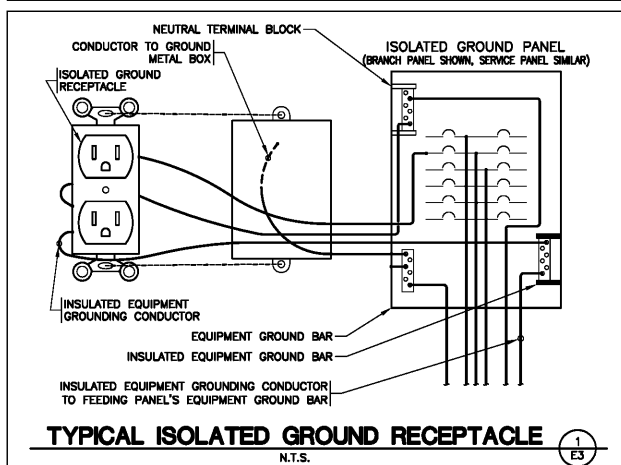
NOTE: 1. PROVIDE AT ALL WATER HEATER LOCATIONS. 2. BONDING OF WATER HEATER IS IN ADDITION TO BONDING OF METAL WATER PIPE AT ELECTRICAL SERVICE ENTRANCE.

NOTE: 1. BOND ALL NONCURRENT CARRYING METAL PARTS OF SERVICE EQUIPMENT (INCLUDING METER ENCLOSURE) TO GROUNDING ELECTRODE AS REQUIRED. PER NEC 250-92. 2. THE GROUNDED NEUTRAL CONDUCTOR SHALL BE RUN TO AND BONDED TO EACH SERVICE DISCONNECTING MEANS ENCLOSURE IN ACCORDANCE WITH NEC 250-24c. 3. BONDING OF OTHER ENCLOSURES SHALL BE IN ACCORDANCE WITH NEC 250-96.



NOTE: GROUNDING ELECTRODE TEST MEASURE AND RECORD GROUND RESISTANCE FROM SYSTEM NEUTRAL CONNECTION AT SERVICE ENTRANCE TO CONVENIENT GROUND REFERENCE POINT USING SUITABLE GROUND TESTING EQUIPMENT. MAXIMUM ACCEPTABLE RESISTANCE: 10 OHMS. WHEN RESISTANCE EXCEEDS 10 OHMS, DRIVE AND BOND (#6 COPPER MINIMUM) ANOTHER GROUND ROD, ONE GROUND ROD LENGTH AWAY (MINIMUM 6'-0") AND REPEAT TEST. CONTINUE THIS PROCESS UNTIL RESISTANCE IS BELOW 10 OHMS.

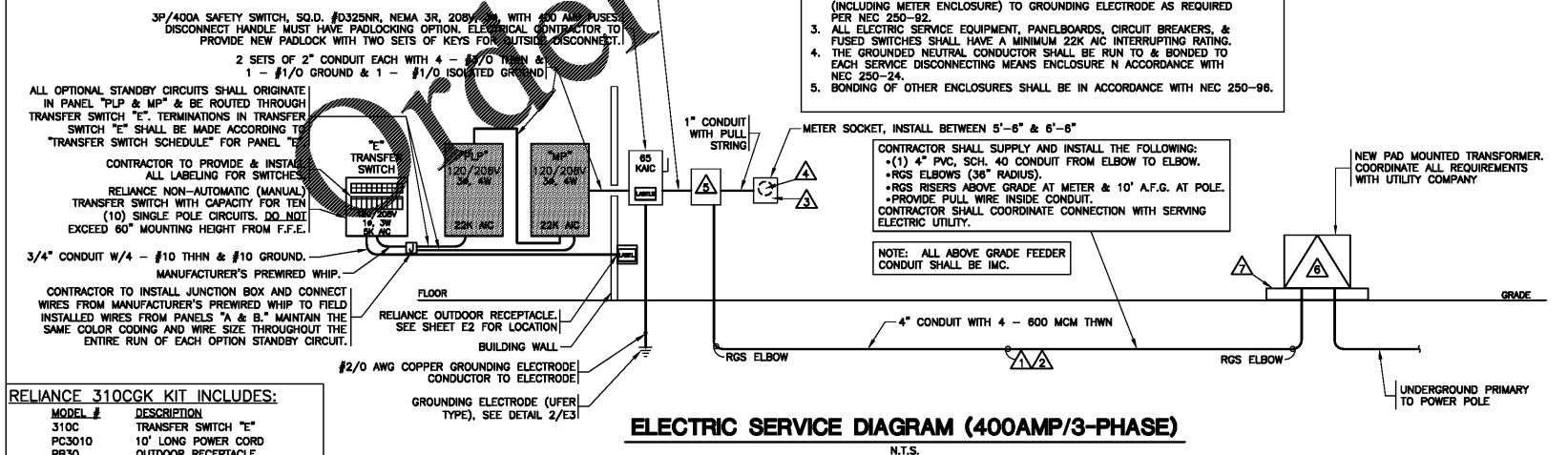
TYPICAL ISOLATED GROUND RECEPTACLE



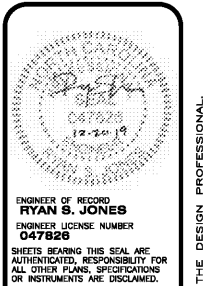
ELECTRIC SERVICE RESPONSIBILITIES

Table with columns for ITEM NO., DESCRIPTION (IF APPLICABLE), FURNISHED BY (UTILITY CO., CONTRACTOR), and INSTALLED BY (UTILITY CO., CONTRACTOR).

PORTABLE, PLUG-IN GENERATOR IS FOR NEC ARTICLE 702 OPTIONAL STANDBY LOADS FOR DISRUPTION OF BUSINESS ONLY.



RELIANCE 310CGK KIT INCLUDES: MODEL # 310C TRANSFER SWITCH "E", PC3010 10' LONG POWER CORD, PB30 OUTDOOR RECEPTACLE



CJD Engineering | Energy | Innovation 2225 West Chesfield Boulevard, Suite 200, Springfield, MO 65807 P: 417.877.1700 www.cjd-eng.com

PROJECT: NEW O'REILLY AUTO PARTS STORE 2801 SOUTH MIAMI BLVD. DURHAM, NC 27703

O'Reilly AUTO PARTS CORPORATE OFFICES 233 SOUTH PATTERSON SPRINGFIELD, MISSOURI 65802 (417) 862-2674 TELEPHONE

DRAWN BY: JBR CHECKED BY: CRF DATE: 12/20/19 REVISION: PROJECT NUMBER: 19261-DC1 SHEET NUMBER: E3

REPRODUCTION PROHIBITED WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE DESIGN PROFESSIONAL. © COPYRIGHT 2019 - DESIGNS, DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND ARE THE PROPERTY OF THE DESIGN PROFESSIONAL.