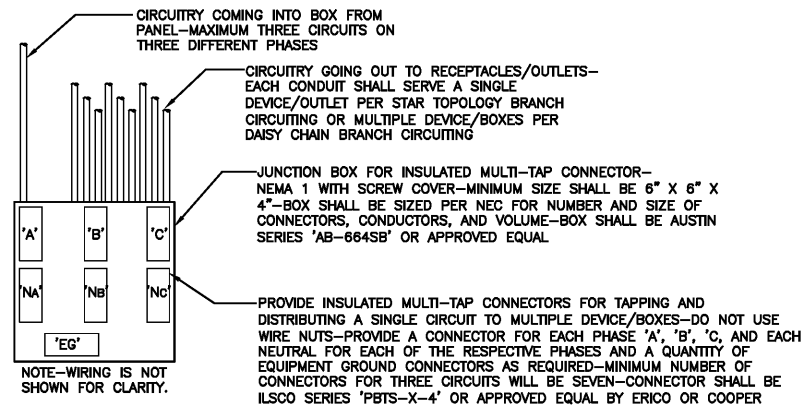


PROVIDE BOX AND TWIST ON WIRE CONNECTORS AT THE FOLLOWING LOCATIONS

- 1- PROVIDE JUNCTION BOX WITH TWIST ON WIRE CONNECTORS AS SHOWN WHERE CONNECTING THREE OR LESS CONDUCTORS TOGETHER FOR ALL OF THE THREE CIRCUITS WITHIN THE BOX. A MAXIMUM OF TWO DEVICES OR OUTLETS SHALL BE SERVED FROM ANY OF THE THREE CIRCUITS WITHIN THE BOX.

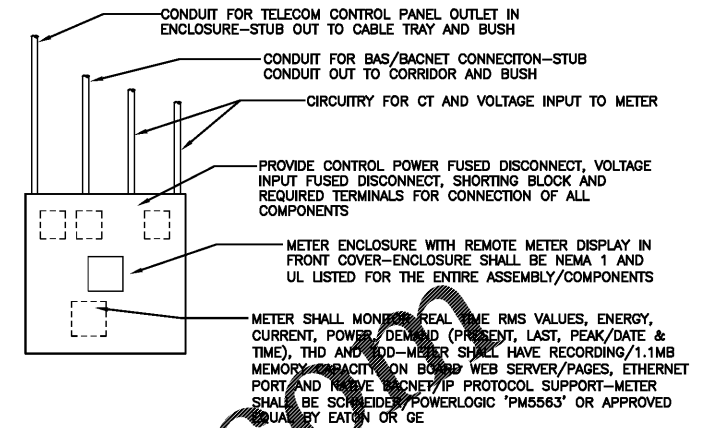
1 HOMERUN JUNCTION BOX WITH TWIST ON WIRE CONNECTORS
E406 SCALE: NOT TO SCALE



PROVIDE BOX AND INSULATED MULTI-TAP CONNECTORS AT THE FOLLOWING LOCATIONS

- 1- PROVIDE JUNCTION BOX WITH INSULATED MULTI-TAP CONNECTORS AS SHOWN WHERE CONNECTING FOUR OR MORE CONDUCTORS TOGETHER FOR ANY OF THE THREE CIRCUITS WITHIN THE BOX.
- 2- THIS BOX/CONNECTOR INSTALLATION IS INTENDED TO PREVENT THE USE OF MULTIPLE SMALLER JUNCTION BOXES WITH MULTIPLE 'WIRE NUT' SPLICED WIRES.

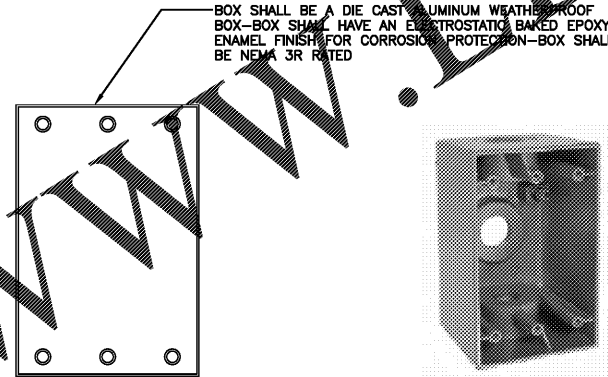
2 HOMERUN JUNCTION BOX WITH INSULATED MULTI-TAP CONNECTORS
E406 SCALE: NOT TO SCALE



NOTES

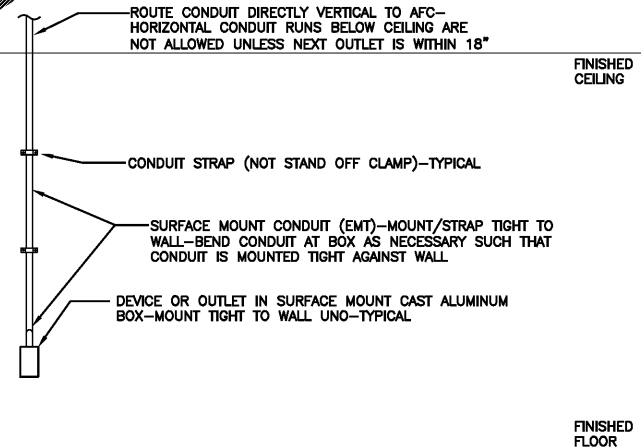
- 1- PROVIDE CT'S IN PANEL WHICH IS BEING METERED. CT'S SHALL BE SCHNEIDER SERIES '3090' CT'S OR APPROVED EQUAL BY EATON OR FLEXCORE. AMPERAGE SHALL BE THE FEEDER AMPERAGE AS A MINIMUM.
- 2- PROVIDE 3P-15A BREAKER IN THE PANEL BEING METERED OR TAP THE EQUIPMENT BUS FOR VOLTAGE INPUT TO THE METER.

3 POWER METER
E406 SCALE: NOT TO SCALE



NOTE - A SINGLE GANG BOX IS SHOWN. PROVIDE DOUBLE GANG OR OTHER APPROPRIATE SIZE AS NEEDED FOR THE PARTICULAR APPLICATION. BOX SHALL HAVE MINIMUM 18 CUBIC INCH VOLUME.

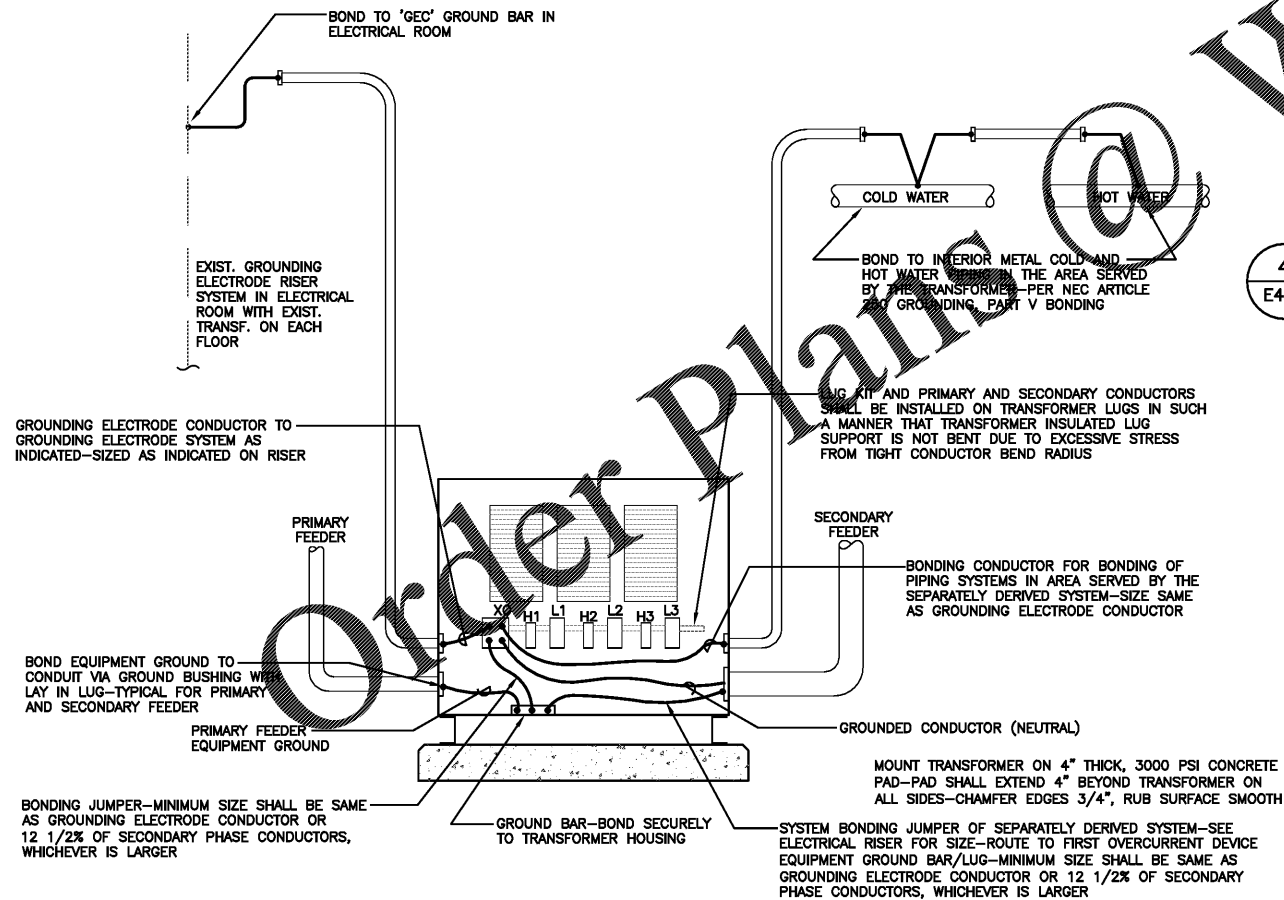
4 BOX FOR SURFACE MOUNT INSTALLATION
E406 SCALE: NOT TO SCALE



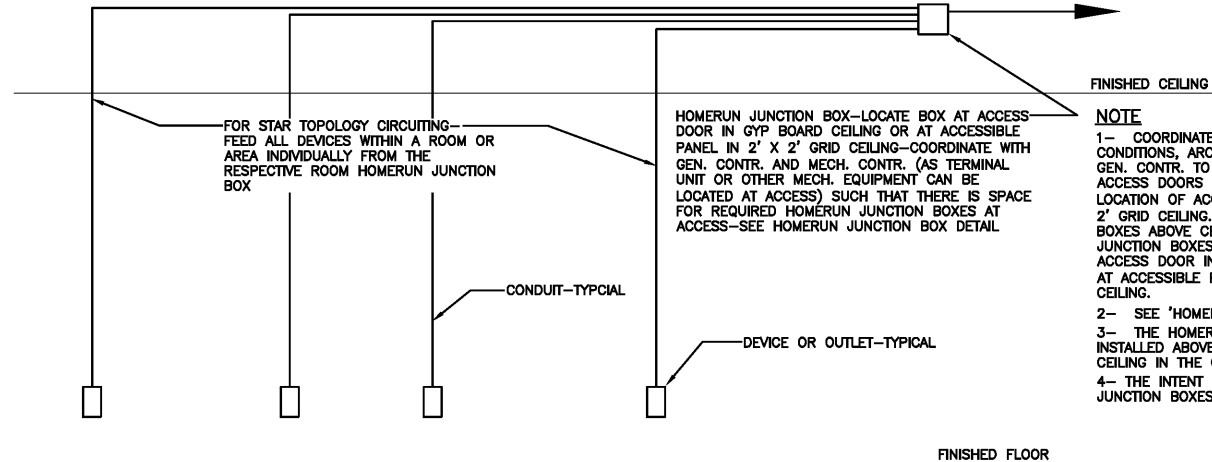
NOTES

- 1- THIS INSTALLATION IS TYPICAL FOR ALL SURFACE BOX INSTALLATIONS INCLUDING RECEPTACLES, SWITCHES, DOOR SWITCHES, CARD READERS, TELECOM AND OTHER DEVICES NOTED IN A SURFACE BOX.
- 2- THIS INSTALLATION IS FOR STAR TOPOLOGY ONLY SUCH THAT THE BOX IS NOT A FEED THRU BOX.

5 SURFACE MOUNT BOX INSTALLATION
E406 NOT TO SCALE



6 DRY TYPE TRANSFORMER/GROUNDING/BONDING
E406 SCALE: NOT TO SCALE



STAR TOPOLOGY BRANCH CIRCUITING

NOTE: ALL DEVICES, SURFACE OR FLUSH MOUNT, INSTALLED IN LAB AREAS SHALL BE INSTALLED USING STAR TOPOLOGY CIRCUITING AS SHOWN WITH A HOMERUN JUNCTION BOX. PROVIDE THIS INSTALLATION WHETHER THE CIRCUIT SERVES ONE INDIVIDUAL OUTLET OR MULTIPLE OUTLETS. THIS INSTALLATION ALLOWS FOR EASY EXPANSION OR RENOVATION IN THE FUTURE. ALL AREAS ARE LAB AREAS EXCEPT ROOMS DESIGNATED AS 'OFFICE'

7 CIRCUITING IN LAB AREAS
E406 NOT TO SCALE

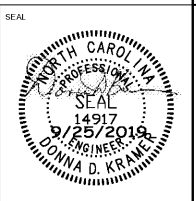
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REVISION

SHEET TITLE: **DETAILS**
SCALE: NOT TO SCALE

UNC SCHOOL OF MEDICINE
NEUROSCIENCES RESEARCH BUILDING
7th & 8th FLOORS FOR DERMATOLOGY
LOCATION: 1515 Wilson Farm Road, Campus Box 7250
Chapel Hill, North Carolina 27599-7250



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