

USE: SINGLE-PHASE,
120/240V, 100A &
200A, 4 TERMINAL

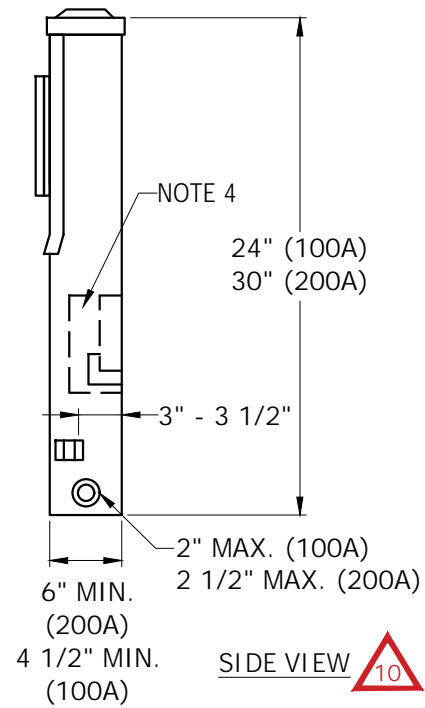
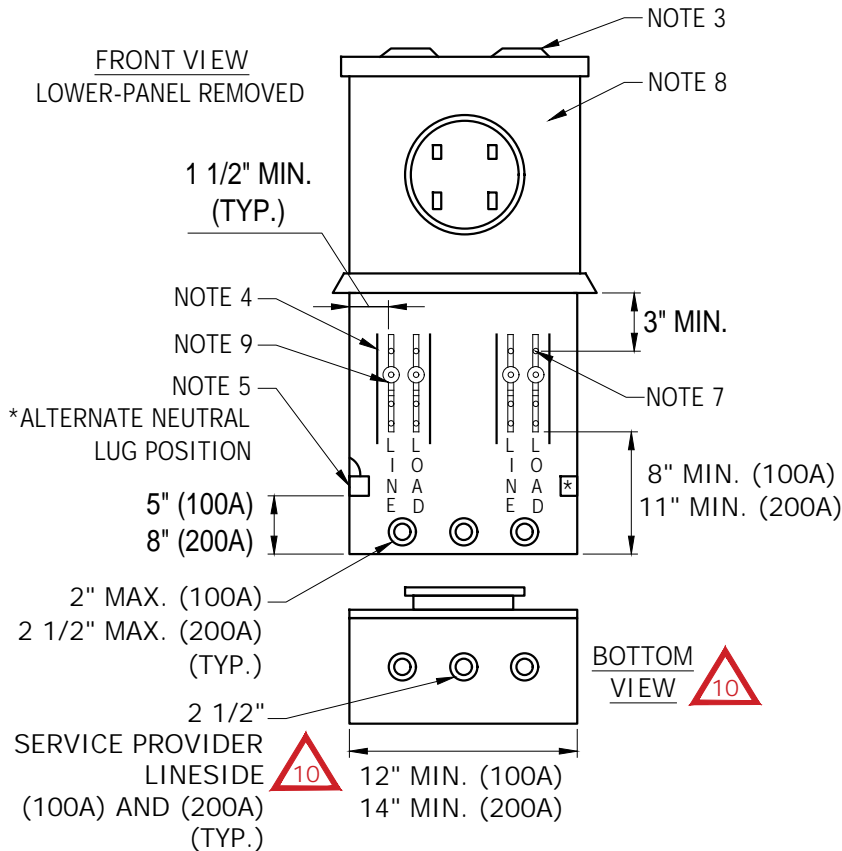
SAFETY SOCKET BOX, TEST-BYPASS BLOCK AND SWITCHBOARDS



EUSERC DWG.
NO. 304 & 305



REFER TO SR-452 FOR THE
COMPLETE APPROVED METERING
AND SERVICE EQUIPMENT LIST



NOTES:

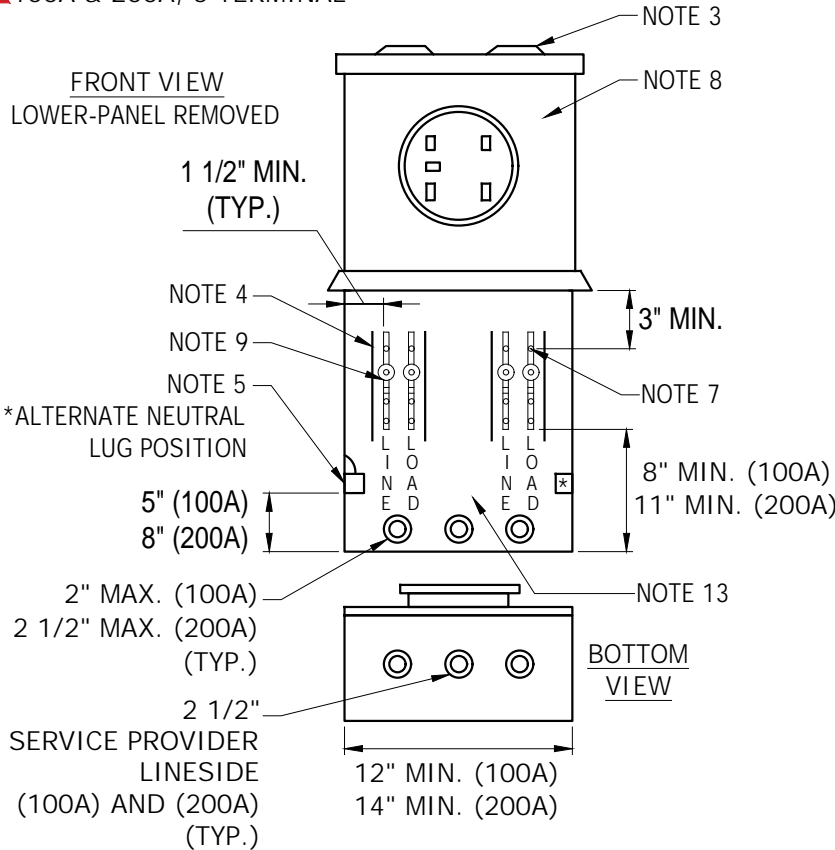
1. THIS DEVICE MAY BE USED FOR TERMINATING/PULLING AND METER SOCKET BOX FOR AN UNDERGROUND SERVICE.
2. ALUMINUM BODIED TERMINALS FOR NO. 6 THROUGH NO. 1/0AWG WIRE (100A) OR 1/0AWG THROUGH 250KCMIL (200A).
3. UNUSED HUBS CAPPED OFF WITH A RAINPROOF ACCESS PLATE(S) THAT IS SECURED INTERNALLY UTILIZING A CARRIAGE BOLT AND A WINGNUT BAR THAT SPANS BEYOND THE OPENING, SEE SR-405.
4. RIGID INSULATING BARRIERS.
5. INSULATED BONDABLE VERTICAL LAY-IN, DOUBLE NEUTRAL LUG WITH NO. 1/0 (100A), NO. 250 KCMIL (200A), AWG WIRE CAPACITY MOUNTED ON EITHER SIDEWALL. NEUTRAL LUG SHALL BE BONDED TO ENCLOSURE.
6. TEST-BYPASS BLOCKS SHALL BE BUSSED OR WIRED TO SOCKET JAWS OR TERMINALS.
7. UPPER TEST CONNECTOR STUDS.
8. ALL SECTION PANELS SHALL BE INDEPENDENTLY REMOVABLE. UPPER PANEL SHALL BE NON-REMOVABLE WHEN METER IS IN PLACE. METER SOCKET SHALL BE MOUNTED ON SUPPORT AND ATTACHED TO UPPER PANEL. LOWER PANEL SHALL BE SEALABLE AND PERMANENTLY LABELED, "DO NOT BREAK SEALS, NO FUSES INSIDE".
9. TEST-BYPASS BLOCK DETAIL. SEE SR-410, PAGE 3.
10. FOR SINGLE-PHASE, 3 WIRE SERVICE, PROVIDE TWO TEST-BYPASS BLOCKS MOUNTED IN THE OUTER POSITIONS AND A FOUR JAW SOCKET (FORM 2 METER).
11. PERMANENT LABEL ON INSIDE BACK OF ENCLOSURE IS 3/4" MINIMUM HIGH BLOCK LETTERS.
12. FOR SWITCHBOARD APPLICATION, REFER TO SR-410, PAGE 6.
13. THIS SOCKET IS REQUIRED FOR MULTI-METERED COMMERCIAL APPLICATIONS, SR-418.
14. REFER TO SR-408, PAGES 1, 3 AND 4 FOR SOCKET REQUIREMENTS FOR PERMANENTLY UNOCCUPIED COMMERCIAL INSTALLATIONS SUCH AS WATER WELLS, BILLBOARDS, IRRIGATION SYSTEMS, ETC., WHERE A BY-PASS SYSTEM IS NOT NEEDED.
15. MINIMUM WIDTH OF ACCESS OPENING SHALL BE 11 1/2" FOR 100A, 13 1/2" FOR 200A SOCKET.
16. WHEN INSTALLING A SAFETY SOCKET FOR METERING OF STREET LIGHT INSTALLATIONS OR IN PARKS, SCHOOL YARDS AND OTHER AREAS SUBJECT TO VANDALISM, INSTALL A PROTECTIVE COVER (METER DEVICES/BROOKS CAT. #4042) ON THE METER BASE.

		INITIATED BY	MS	REVISION NO.	10	SR-410
		ESR COMM.	10-89	ESR COMM.	9-20	
				EFFECTIVE DATE	9-20	

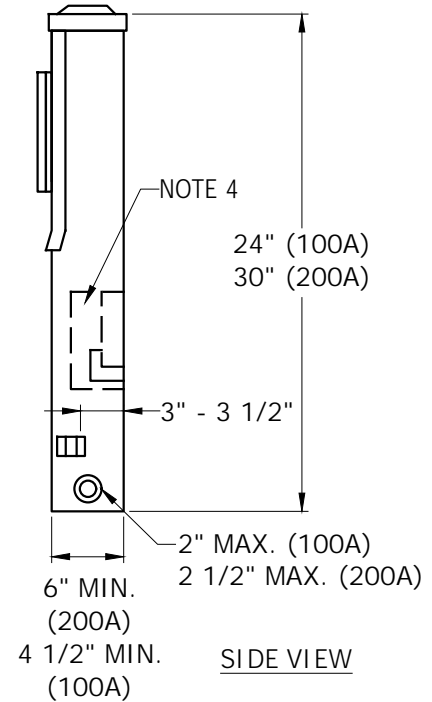
USE: SINGLE-PHASE,
 120/208V, 120/240V,
 100A & 200A, 5 TERMINAL

SAFETY SOCKET BOX, TEST-BYPASS BLOCK AND SWITCHBOARDS

EUSERC DWG.
 NO. 304 & 305



REFER TO SR-452 FOR THE COMPLETE APPROVED METERING AND SERVICE EQUIPMENT LIST



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- UNUSED HUBS CAPPED OFF WITH A RAINPROOF ACCESS PLATE(S) THAT IS SECURED INTERNALLY UTILIZING A CARRIAGE BOLT AND A WINGNUT BAR THAT SPANS BEYOND THE OPENING, SEE SR-405.
- RIGID INSULATING BARRIERS.
- INSULATED BONDABLE VERTICAL LAY-IN, DOUBLE NEUTRAL LUG WITH NO. 1/0 (100 A), NO. 250 KCMIL (200 A), AWG WIRE CAPACITY MOUNTED ON EITHER SIDEWALL. NEUTRAL LUG SHALL BE BONDED TO ENCLOSURE.
- TEST-BYPASS BLOCKS SHALL BE BUSSED OR WIRED TO SOCKET JAWS OR TERMINALS.
- UPPER TEST CONNECTOR STUDS.
- ALL SECTION PANELS SHALL BE INDEPENDENTLY REMOVABLE. UPPER PANEL SHALL BE NON-REMOVABLE WHEN METER IS IN PLACE. METER SOCKET SHALL BE MOUNTED ON SUPPORT AND ATTACHED TO UPPER PANEL. LOWER PANEL SHALL BE SEALABLE AND PERMANENTLY LABELED, "DO NOT BREAK SEALS, NO FUSES INSIDE".
- TEST-BYPASS BLOCK DETAIL. SEE SR-410, PAGE 3.
- FOR SINGLE-PHASE, 3 WIRE, 208V, FORM 12 METER, PROVIDE TWO TEST-BYPASS BLOCKS MOUNTED IN THE OUTER POSITION AND A FIVE JAW SOCKET. CONNECT 5TH JAW OF METER SOCKET TO BODY OF NEUTRAL LUG WITH #12 MIN. COPPER WIRE, WHITE IN COLOR. THE 5TH JAW OF THE METER SOCKET IS TO BE SECURELY ATTACHED TO THE METER SOCKET.
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- MINIMUM WIDTH OF ACCESS OPENING SHALL BE 11 1/2" FOR 100A, 13 1/2" FOR 200A SOCKET.
- WHEN INSTALLING A SAFETY SOCKET FOR METERING OF STREET LIGHT INSTALLATIONS OR IN PARKS, SCHOOL YARDS AND OTHER AREAS SUBJECT TO VANDALISM, INSTALL A PROTECTIVE COVER (METER DEVICES/BROOKS CAT. #4042) ON THE METER BASE.

USE: THREE-PHASE,
120/208V, 120/240V,
277V/480V, 240/480V,
100A & 200A, 7 TERMINAL

SAFETY SOCKET BOX, TEST-BYPASS BLOCK AND SWITCHBOARDS

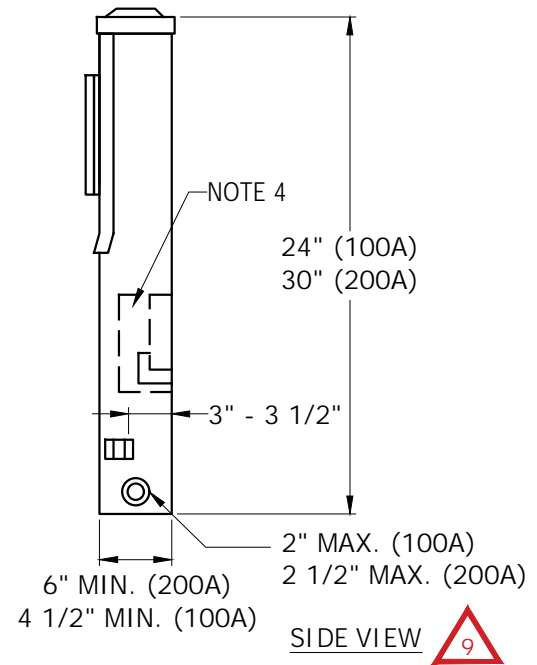
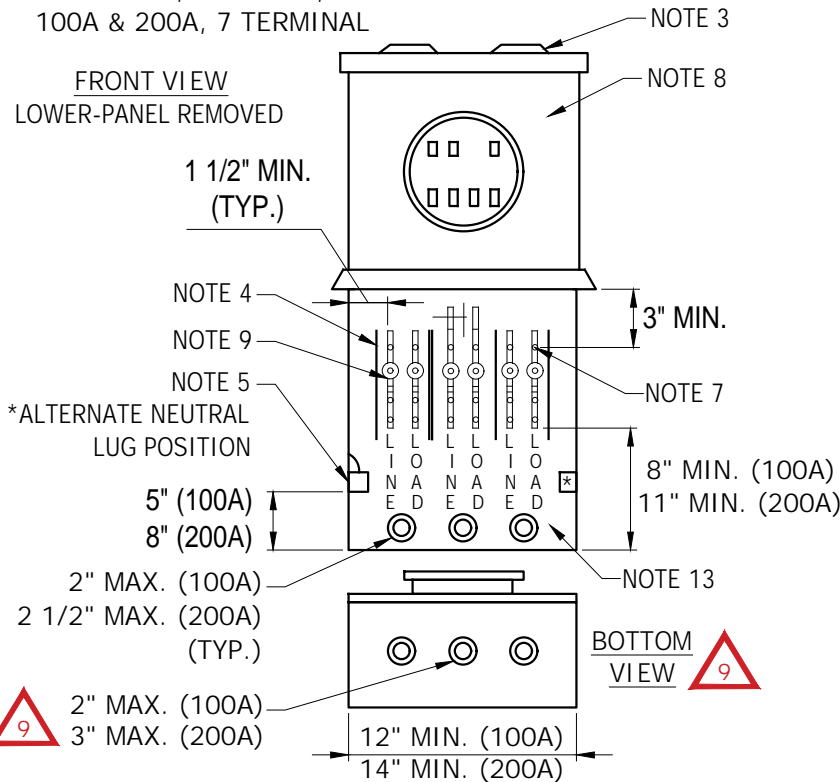


EUSERC DWG.
NO. 304 & 305



REFER TO SR-452 FOR THE
COMPLETE APPROVED METERING
AND SERVICE EQUIPMENT LIST

FRONT VIEW
LOWER-PANEL REMOVED



NOTES:

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3. UNUSED HUBS CAPPED OFF WITH A RAINPROOF ACCESS PLATE(S) THAT IS SECURED INTERNALLY UTILIZING A CARRIAGE BOLT AND A WINGNUT BAR THAT SPANS BEYOND THE OPENING, SEE SR-405.
4. RIGID INSULATING BARRIERS.
5. INSULATED BONDABLE VERTICAL LAY-IN, DOUBLE NEUTRAL LUG WITH NO. 1/0 (100A), NO. 250 KCMIL (200A), AWG WIRE CAPACITY MOUNTED ON EITHER SIDEWALL. NEUTRAL LUG SHALL BE BONDED TO ENCLOSURE.
6. TEST-BYPASS BLOCKS SHALL BE BUSSED OR WIRED TO SOCKET JAWS OR TERMINALS.
7. UPPER TEST CONNECTOR STUDS.
8. ALL SECTION PANELS SHALL BE INDEPENDENTLY REMOVABLE. UPPER PANEL SHALL BE NON-REMOVABLE WHEN METER IS IN PLACE. METER SOCKET SHALL BE MOUNTED ON SUPPORT AND ATTACHED TO UPPER PANEL. LOWER PANEL SHALL BE SEALABLE AND PERMANENTLY LABELED, "DO NOT BREAK SEALS, NO FUSES INSIDE".
9. TEST-BYPASS BLOCK DETAIL. SEE SR-410, PAGE 3.
10. FOR THREE-PHASE, 4 WIRE, CONNECT 7TH JAW TO BODY OF NEUTRAL LUG WITH #12 AWG COPPER WIRE WHITE IN COLOR (SEVEN JAW SOCKET).
11. FOR THREE-PHASE, 240/120V, 4 WIRE DELTA, IDENTIFY RIGHT HAND SIDE OF THE TEST-BYPASS BLOCK, LINE AND LOAD SIDE (2 POLES) AS THE POWER LEG (SEVEN JAW SOCKET).
12. PERMANENT LABEL ON INSIDE BACK OF ENCLOSURE IS 3/4" MINIMUM HIGH BLOCK LETTERS.
13. FOR SWITCHBOARD APPLICATION, REFER TO SR-410, PAGE 6.
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15. REFER TO SR-408, PAGES 1,3 & 4 FOR SOCKET REQUIREMENTS FOR PERMANENTLY UNOCCUPIED COMMERCIAL INSTALLATIONS SUCH AS WATER WELLS, BILLBOARDS, IRRIGATION SYSTEMS, ETC., WHERE A BYPASS SYSTEM IS NOT NEEDED.
16. MINIMUM WIDTH OF ACCESS OPENING SHALL BE 11 1/2" FOR 100A, 13 1/2" FOR 200A SOCKET.
17. WHEN INSTALLING A SAFETY SOCKET FOR METERING OF STREET LIGHT INSTALLATIONS OR IN PARKS, SCHOOL YARDS AND OTHER AREAS SUBJECT TO VANDALISM, INSTALL A PROTECTIVE COVER (METER DEVICES/BROOKS CAT. #4042) ON THE METER BASE.
18. ALL METER SOCKETS AND SERVICES ARE TO IDENTIFIED WITH AN ADDRESS TAG AS PER SR-405, NOTE 5 AND 16.
19. ALL CONDUCTORS SHALL BE COLOR CODE IDENTIFIED AS PER SR-405, NOTE 16.

		INITIATED BY	MS	REVISION NO.	9	SR-410
		ESR COMM.	10-89	ESR COMM.	9-20	
				EFFECTIVE DATE	9-20	

USE: TEST BYPASS,
DISCONNECT BLOCK
FOR SAFETY SOCKET,
100A AND 200A

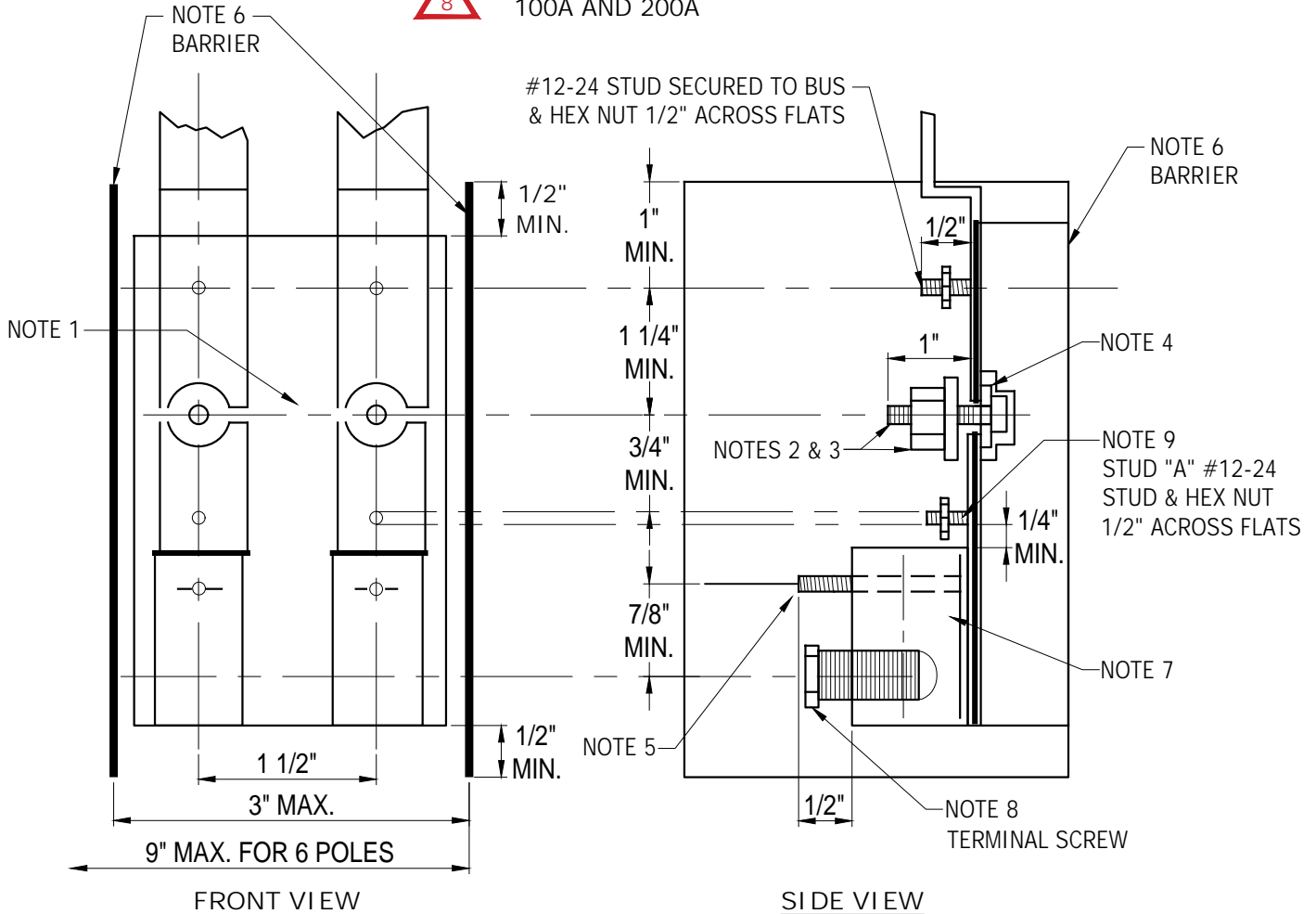
SAFETY SOCKET BOX, TEST-BYPASS BLOCK
AND SWITCHBOARDS



EUSERC DWG.
NO. 311



TEST-BYPASS BLOCK
100A AND 200A



NOTES:

1. DISTANCE BETWEEN UPPER AND LOWER BUS SECTIONS SHALL NOT BE LESS THAN 1/4 INCH WHEN SHORTING NUT IS BACKED OFF.
2. CIRCUIT-CLOSING NUT SHALL BE A HEX NUT 5/8 INCH ACROSS FLATS WITH PLATED COPPER WASHER ATTACHED AND HAVE THREADS COUNTER-BORED AT BOTTOM TO FACILITATE RE-INSTALLATION. BOLT HEAD SHALL BE SECURED IN PLACE TO PREVENT TURNING AND BACKOUT.
3. THE CIRCUIT-CLOSING NUT AND BOLT ASSEMBLY SHALL MAINTAIN THE APPLIED CONTACT PRESSURE BETWEEN THE PLATED COPPER WASHER AND THE BUS MEMBERS OF THE TEST-BYPASS BLOCK.
4. INSULATING WASHER SHALL BE MADE FROM DIMENSIONALLY STABLE, NON-TRACKING MATERIAL AND SHALL PROVIDE A MINIMUM OF 1/8 INCH CREEP DISTANCE BETWEEN THE BOLT AND THE BUS SECTIONS. BUS SECTIONS SHALL BE PLATED.

USE: TEST BYPASS,
DISCONNECT BLOCK
FOR SAFETY SOCKET,
100A AND 200A

SAFETY SOCKET BOX, TEST-BYPASS BLOCK
AND SWITCHBOARDS





EUSERC DWG.
NO. 311



NOTES (CONTINUED):

5. WIRE STOPS SHALL EXTEND TO CENTER OF TERMINAL OPENING OR BEYOND. THE WIRE STOP STUDS SHALL NOT BE USED FOR THE PURPOSE OF MODIFY MOUNTING OF TERMINAL CONNECTORS.
6. RIGID INSULATING BARRIERS SHALL PROJECT AT LEAST 1/4 INCH BEYOND ANY ENERGIZED PARTS WHEN THE MAXIMUM WIRE SIZE IS INSTALLED.
7. TERMINALS SHALL BE ALUMINUM BODIED. FOR REQUIRED CONDUCTOR RANGE, SEE SR-410, PAGES 1 & 2. THE OPENING SHALL EXTEND THROUGH THE TERMINAL BODY AND, IF WIRE HOLE IS ROUND, SHALL BE CHAMFERRED AS NECESSARY TO FACILITATE INSTALLATION OF THE LARGEST SIZE WIRE.
8. THE TERMINAL SCREW MAY BE OF THE ALLEN TYPE (3/16 INCH ACROSS FLATS FOR 200A. IF STUD "A" IS A PART OF THE TERMINAL SCREW, THE TERMINAL SCREW SHALL BE 5/8 INCH HEX ACROSS FLATS.
9. STUD "A" SHALL BE LOCATED IN THE CLEAR AREA BETWEEN THE TERMINATING LUG AND THE CIRCUIT-CLOSING NUT, AND MAY BE POSITIONED ON THE TERMINAL BODY, ON THE TERMINAL SCREW, ON THE BUS MEMBER, OR INCORPORATED AS PART OF THE WIRE STOP.

		INITIATED BY	SC	REVISION NO.	8	SR-410 Pg. 5 of 10
		ESR COMM.	8-77	ESR COMM.	9-20	
EFFECTIVE DATE	9-20					

USE: SELF-CONTAINED
METERING SINGLE
AND THREE-PHASE,
FOUR WIRE SERVICE,
MAX. 200A, 0-600V

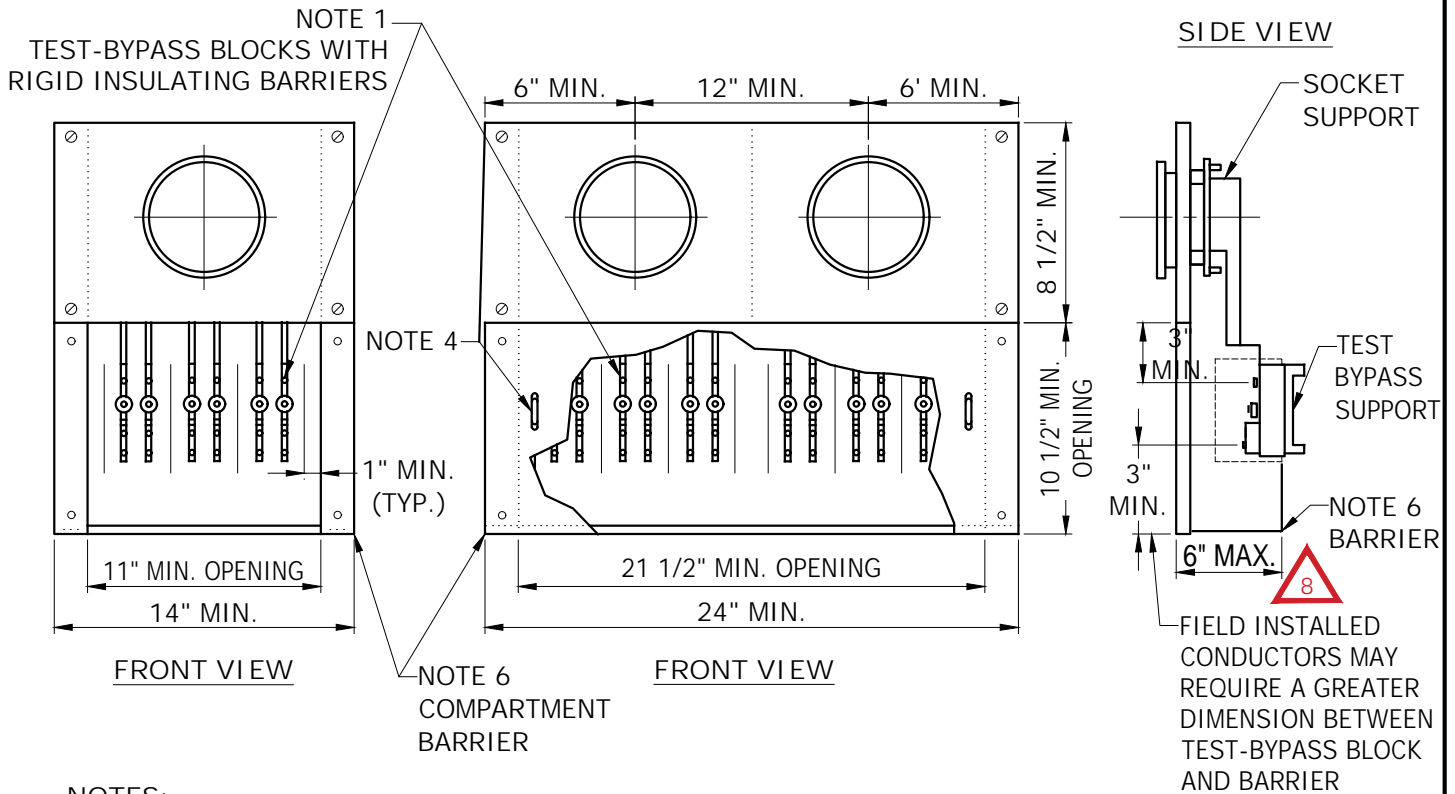
SAFETY SOCKET BOX, TEST-BYPASS BLOCK
AND SWITCHBOARDS



EUSERC DWG.
NO. 306



8 SWITCHBOARDS
200A MAXIMUM



NOTES:

1. TEST-BYPASS BLOCKS WITH RIGID INSULATING BARRIERS SHALL BE FURNISHED, INSTALLED, AND WIRED OR BUSSED TO THE METER SOCKET BY THE MANUFACTURER. CONNECTION SEQUENCE IS LINE-LOAD FROM LEFT TO RIGHT.
2. METERED CONDUCTORS SHALL NOT PASS THROUGH ADJACENT METERING COMPARTMENTS EXCEPT IN ENCLOSED WIREWAYS. TO INSURE PROPER IDENTIFICATION OF CABLES IN FACTORY CABLED EQUIPMENT, METERED CABLES (EXCEPT IN THE TEST-BYPASS AREA), SHALL BE EITHER PHYSICALLY BARRIERED OR BUNDLED SO AS TO SEPARATE THEM FROM UNMETERED CABLE OR PERMANENTLY MARKED AND ISOLATED FROM UNMETERED CABLES. PHYSICAL BARRIERS WILL NOT BE REQUIRED IF THE UNMETERED CONDUCTORS ARE BUS.
3. METER PANELS SHALL BE REMOVABLE WITH A MAXIMUM OF TWO METERS PER PANEL. BREAKERS MUST BE SEALABLE IN THE OFF POSITION WITH A TEP OR SERVICE PROVIDER SEAL, OR INDIVIDUAL BREAKERS MUST HAVE INDIVIDUAL SEALABLE COVERS.
4. TEST- BYPASS BLOCK COVER PANEL SHALL BE SEALABLE AND FITTED WITH A LIFTING HANDLE. ALL PANELS EXCEEDING 16" IN WIDTH SHALL REQUIRE TWO LIFTING HANDLES.
5. WHEN A NEUTRAL IS REQUIRED FOR METERING OR TESTING, AN INSULATED NEUTRAL TERMINAL SHALL BE PROVIDED BEHIND EACH TEST-BYPASS COVER PANEL. THE TERMINAL SHALL BE READILY ACCESSIBLE WHEN THE COVER PANEL IS REMOVED AND SHALL BE INDIVIDUALLY CONNECTED TO THE NEUTRAL BUS WITH A MINIMUM SIZE NO. 8 COPPER WIRE.

USE: SELF-CONTAINED
METERING SINGLE
AND THREE-PHASE,
FOUR WIRE SERVICE,
MAX. 200A, 0-600V

SAFETY SOCKET BOX, TEST-BYPASS BLOCK
AND SWITCHBOARDS





EUSERC DWG.
NO. 306



NOTES (CONTINUED):

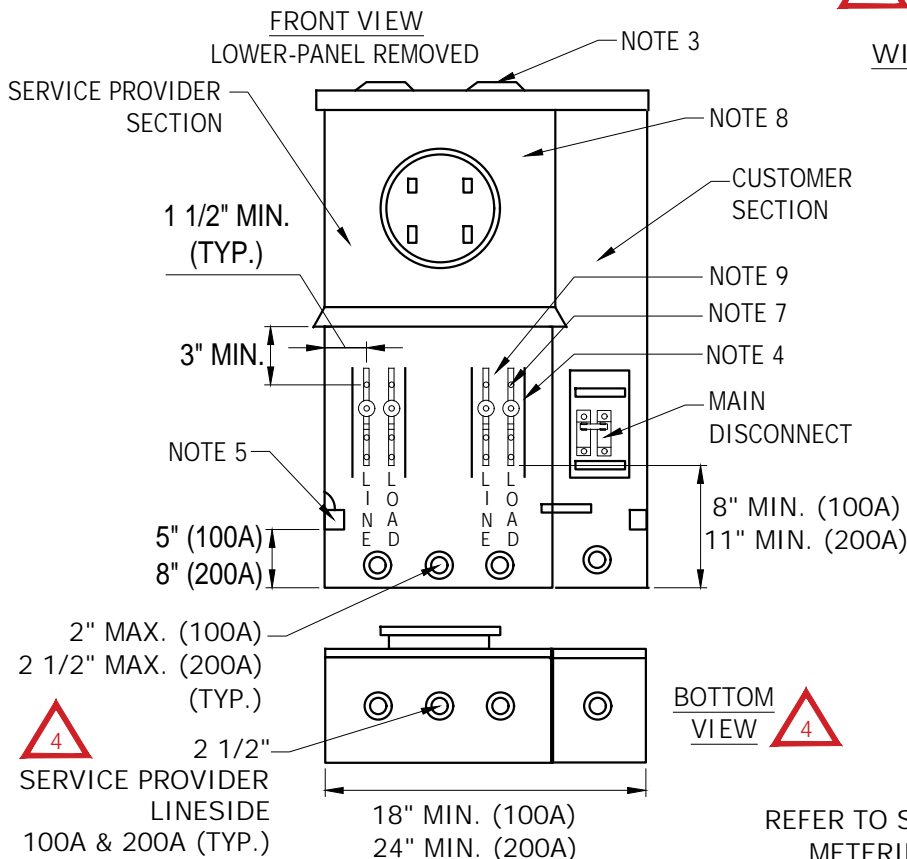
6. FACTORY INSTALLED FULL WIDTH INSULATING BARRIER WITH A MAXIMUM DEFLECTION OF 1/2 INCH FROM AN APPLIED FORCE OF 25 POUNDS DOWNWARD, SHALL BE LOCATED AT THE BOTTOM OF EACH TEST BY-PASS COMPARTMENT.
7. FOR THREE-PHASE, 4 WIRE, CONNECT 7TH JAW TO BODY OF NEUTRAL LUG WITH NO. 12 MINIMUM. COPPER WIRE, WHITE IN COLOR.
8. FOR THREE-PHASE, 240/120V, 4 WIRE DELTA, IDENTIFY RIGHT-HAND TEST-BYPASS BLOCK (2 POLES) AS POWER LEG. IDENTIFICATION TO BE ORANGE IN COLOR (NOT AVAILABLE FOR NEW SERVICE).
9. FOR SINGLE-PHASE, 3 WIRE, PROVIDE TWO TEST-BYPASS BLOCKS MOUNTED IN THE OUTER POSITIONS, AND A FOUR JAW SOCKET.
10. FOR SINGLE-PHASE, 3 WIRE, 120/208V, PROVIDE TWO TEST-BYPASS BLOCKS MOUNTED IN THE OUTER POSITION AND A 5 JAW SOCKET. CONNECT 5TH JAW TO BODY OF NEUTRAL LUG WITH NO. 12 MIN. COPPER WIRE, WHITE IN COLOR.
11. METER PANELS SHALL BE REMOVABLE BUT SHALL BE NON-REMOVABLE WHEN METER IS IN PLACE. METER SOCKET IS TO BE SUPPORTED INDEPENDENT OF AND ATTACHED TO METER PANEL.
12. SEPARATE LINE AND LOAD CONDUCTORS SHALL BE INSTALLED BY THE CONTRACTOR OR MANUFACTURER FOR EACH METER SOCKET.
13. EACH LINE AND LOAD POSITION SHALL BE CLEARLY IDENTIFIED 3/4 INCH MINIMUM BLOCK LETTER LABELING.
14. ALL SECURING SCREWS SHALL BE CAPTIVE. ALL PANELS SHALL BE SEALABLE.

		INITIATED BY	SC	REVISION NO.	9	SR-410 Pg. 7 of 10
		ESR COMM.	8-77	ESR COMM.	9-20	
				EFFECTIVE DATE	9-20	

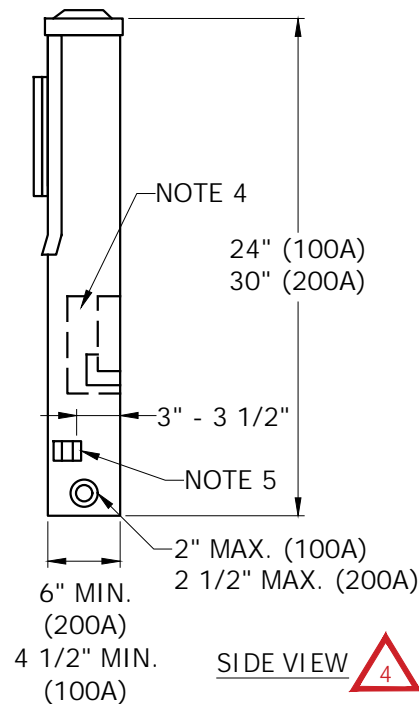
USE: SINGLE-PHASE,
120/240V, 100A &
200A, 4 TERMINAL

SAFETY SOCKET BOX, TEST-BYPASS BLOCK AND SWITCHBOARDS

EUSERC DWG.
NO. 304 & 305



SAFETY SOCKET WITH MAIN DISCONNECT



REFER TO SR-452 FOR THE COMPLETE APPROVED
METERING AND SERVICE EQUIPMENT LIST

NOTES:

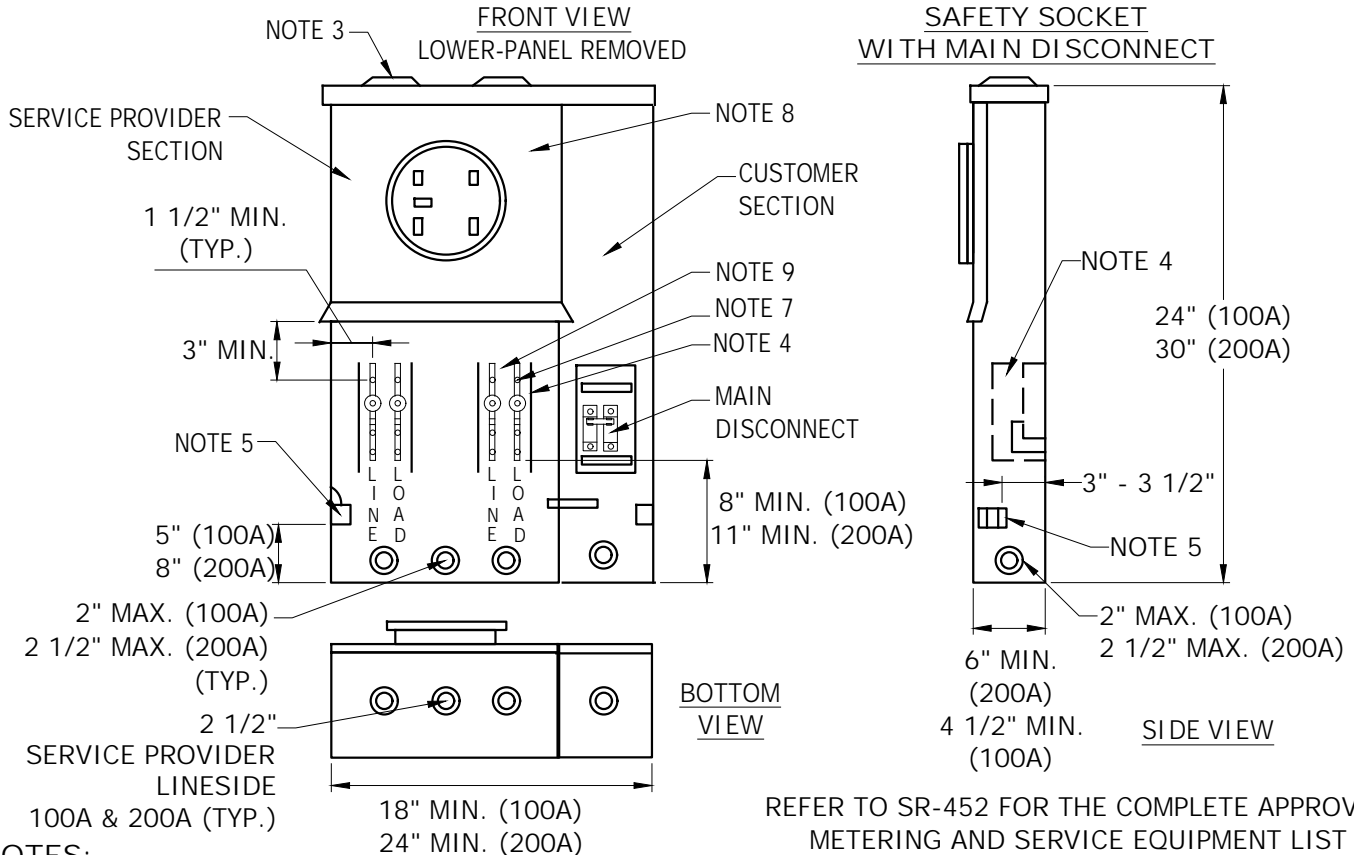
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- RIGID INSULATING BARRIERS.
- INSULATED BONDABLE VERTICAL LAY-IN, DOUBLE NEUTRAL LUG WITH NO. 1/0 (100A), NO. 250 KCMIL, (200A) AWG WIRE CAPACITY MOUNTED ON EITHER SIDEWALL. NEUTRAL LUG SHALL BE BONDED TO ENCLOSURE.
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USE: SINGLE-PHASE,
 120/208V, 120/240V,
 100A & 200A, 5 TERMINAL

SAFETY SOCKET BOX, TEST-BYPASS BLOCK AND SWITCHBOARDS

EUSERC DWG.
 NO. 304 & 305



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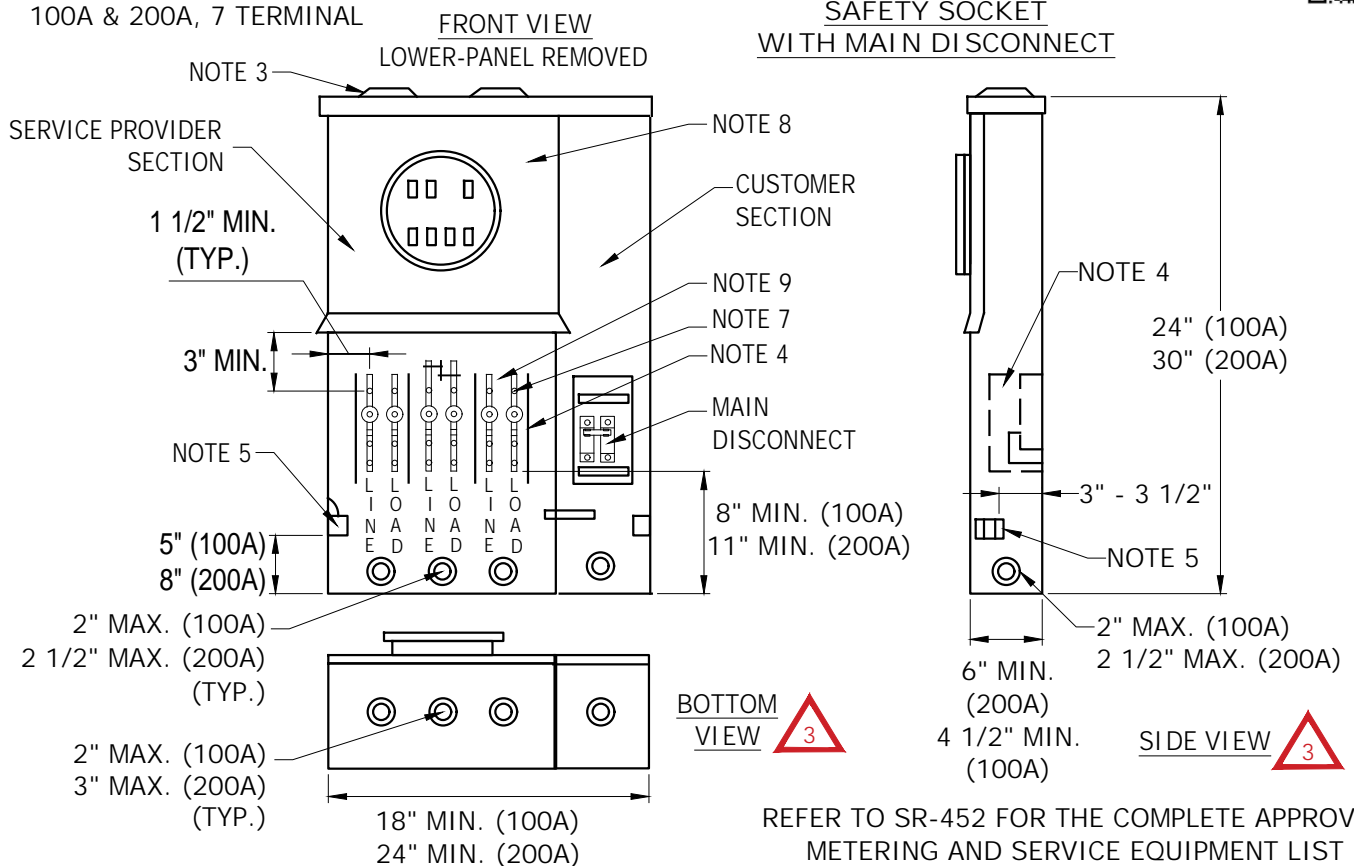
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		ESR COMM.	10-04	ESR COMM.	11-21	
				EFFECTIVE DATE	11-21	

USE: THREE-PHASE,
120/208V, 120/240V,
277/480V, 240/480V,
100A & 200A, 7 TERMINAL

SAFETY SOCKET BOX, TEST-BYPASS BLOCK AND SWITCHBOARDS



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6. TEST-BYPASS BLOCKS SHALL BE BUSSED OR WIRED TO SOCKET JAWS OR TERMINALS.
7. UPPER TEST CONNECTOR STUDS.
8. ALL SECTION PANELS SHALL BE INDEPENDENTLY REMOVABLE. UPPER PANEL SHALL BE NON-REMOVABLE WHEN METER IS IN PLACE. METER SOCKET SHALL BE MOUNTED ON SUPPORT AND ATTACHED TO UPPER PANEL. LOWER PANEL SHALL BE SEALABLE AND PERMANENTLY LABELED, "DO NOT BREAK SEALS, NO FUSES INSIDE."
9. TEST-BYPASS BLOCK DETAIL. SEE SR-410, PAGE 3.
10. FOR THREE-PHASE, 4 WIRE, CONNECT 7TH JAW TO BODY OF NEUTRAL LUG WITH #12 AWG COPPER WIRE, WHITE IN COLOR (SEVEN JAW SOCKET).
11. FOR THREE-PHASE, 240/480V, 4 WIRE DELTA, IDENTIFY RIGHT HAND SIDE OF THE TEST-BYPASS BLOCK, LINE AND LOAD SIDE (2 POLES) AS THE POWER LEG (SEVEN JAW SOCKET).
12. PERMANENT LABEL ON INSIDE BACK OF ENCLOSURE IS 3/4 INCH MINIMUM HIGH BLOCK LETTERS.
13. FOR SWITCHBOARD APPLICATION, REFER TO SR-410, PAGE 6.
14. THIS SOCKET IS REQUIRED FOR MULTI-METERED COMMERCIAL APPLICATIONS, SR-418.
15. REFER TO SR-408, PAGE 1, 3 AND 4 FOR SOCKET REQUIREMENTS FOR PERMANENTLY UNOCCUPIED COMMERCIAL INSTALLS SUCH AS WATER WELLS, BILLBOARDS, IRRIGATION SYSTEMS, ETC., WHERE A BYPASS SYSTEM IS NOT NEEDED.
16. MINIMUM WIDTH OF ACCESS OPENING SHALL BE 11 1/2" FOR 100A, 13 1/2" FOR 200A SOCKET.
17. WHEN INSTALLING A SAFETY SOCKET FOR METERING OF STREET LIGHTS OR IN PARKS, SCHOOL YARDS AND OTHER AREAS SUBJECT TO VANDALISM, INSTALL A PROTECTIVE COVER (METER DEVICES/BROOKS CAT. #4042) ON THE METER BASE.

 Tucson Electric Power	 SANTA CRUZ COUNTY	INITIATED BY	GC	REVISION NO.	3	SR-410 Pg. 10 of 10
		ESR COMM.	10-04	ESR COMM.	9-20	
			EFFECTIVE DATE	9-20		