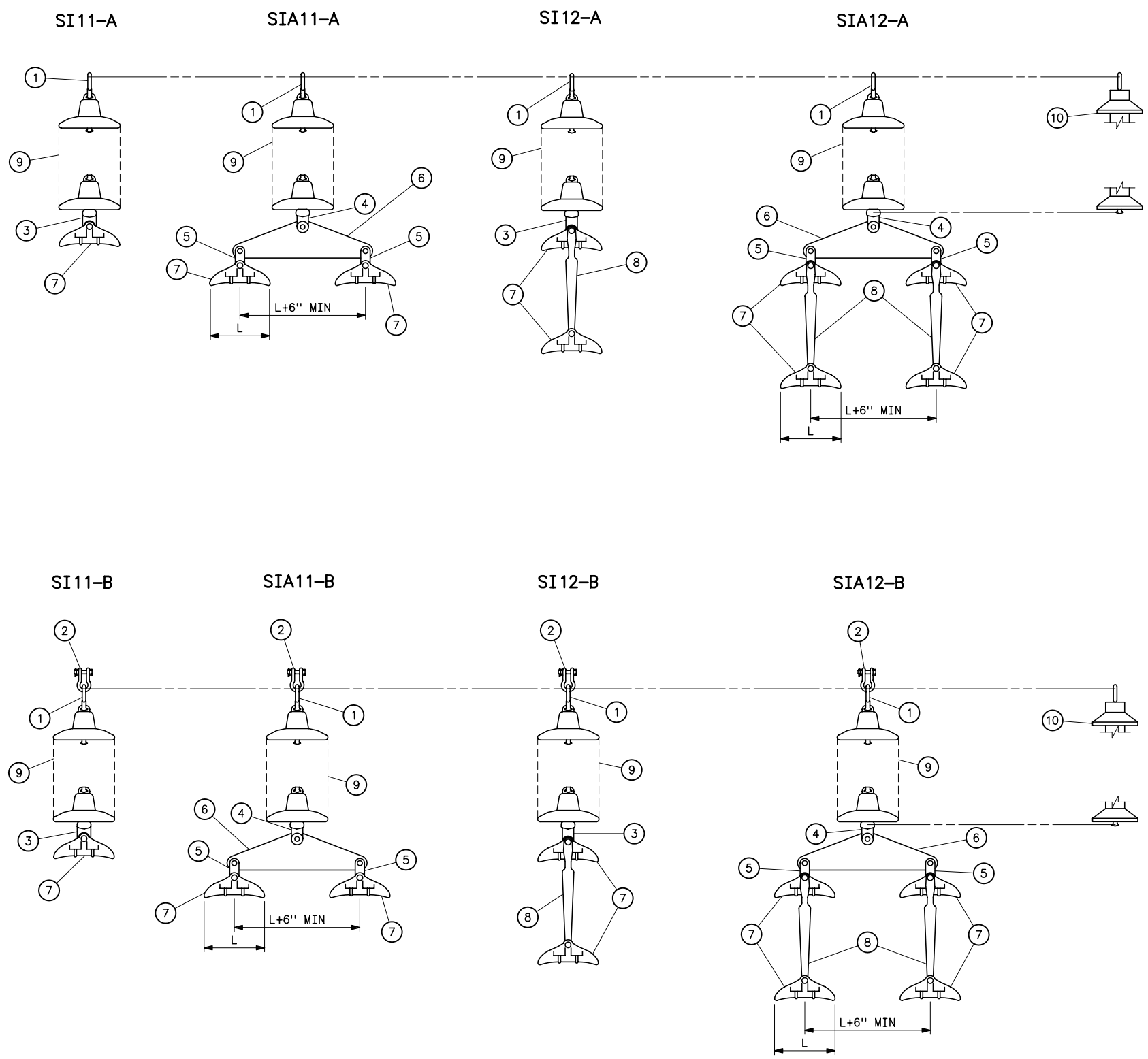

MATERIALS LIST

ITEM NO.	DESCRIPTION
1	OVAL EYE BALL
2	ANCHOR SHACKLE, BNK
3	SOCKET EYE
4	SOCKET CLEVIS, BNK
5	CLEVIS EYE, BNK
6	YOKE PLATE
7	SUSPENSION CLAMP, BNK
8	VERTICAL BUNDLE YOKE, 18" SPACING
9	INSULATOR STRING, PORCELAIN UNITS
10	INSULATOR STRING, POLYMER FIBERGLASS, OVAL EYE–BALL LENGTH AS SPECIFIED)

NOTES

1. BNK INDICATES BOLT, NUT AND STAINLESS STEEL COTTER KEY REQUIRED.
2. STRENGTH OF HARDWARE COMPONENTS SHALL BE EQUAL TO OR GREATER THAN THE INSULATOR ASSEMBLY ULTIMATE STRENGTH, EXCEPT THAT PARALLEL COMPONENTS IN INSULATOR ASSEMBLIES SIA11 AND SIA12 MAY HAVE 50% OF ASSEMBLY ULTIMATE STRENGTH.

TABLE A – PORCELAIN UNITS

VOLTAGE (KV)	UNIT QUANTITY PER ASSEMBLY			
	SI11 AND SI12		SIA11 AND SIA12	
	WOOD STRUCTURES	STEEL STRUCTURES	WOOD STRUCTURES	STEEL STRUCTURES
69	4	6	6	6
115	7	9	9	9
138	8	10	10	10
161	10	11	11	11
230	12	14	13	14

INSULATOR ASSEMBLY TYPE NO.

EXAMPLE: SIA11 – B

- TYPE OF STRUCTURE ATTACHMENT HARDWARE
- ONE (1) OR TWO (2) SUBCONDUCTORS
- SINGLE (1) OR DOUBLE (2) INSULATOR STRING
- RUNNING ANGLE APPLICATION 15° – 60°
- "I–STRING"
- SUSPENSION ASSEMBLY

SUSPENSION INSULATOR ASSEMBLIES

ULTIMATE INSULATOR ASSEMBLY STRENGTH AS SPECIFIED

(NOTE 2)

B	7–15–03 A7–RC	REVISED TITLE BLOCK ONLY.
A	6–29–00 A3	REVISED ULTIMATE STRENGTH REQUIREMENTS. MINOR REVISIONS.

UNITED STATES DEPARTMENT OF ENERGY
WESTERN AREA POWER ADMINISTRATION
CORPORATE SERVICES OFFICE – LAKEWOOD, COLORADO

TRANSMISSION LINE STANDARDS
SUSPENSION INSULATOR ASSEMBLIES
SINGLE STRING

DESIGNED F.S. COOK APPROVED ROSS CLARK, ELECTRICAL ENGINEERING MANAGER

CAE	OCTOBER 10, 1997	41	1020

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