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SUSITNA HYDROELECTRIC PROJECT

SWITCHING STATIONS AND SUBSTATIONS

SINGLE LINE DIAGRAMS

FINAL DRAFT

MARCH 1982

FIGURES

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SUSITNA HYDROELECTRIC PROJECT

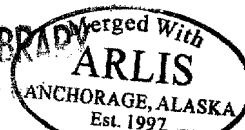
SWITCHING STATIONS AND SUBSTATIONS SINGLE LINE DIAGRAMS

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1 - SWITCHING STATIONS AND SUBSTATIONS SINGLE LINE DIAGRAMS

This document contains the single line diagrams for the four terminal and intermediate stations discussed in Section 14.5 of the Feasibility Report. Each station is represented by the following figures:

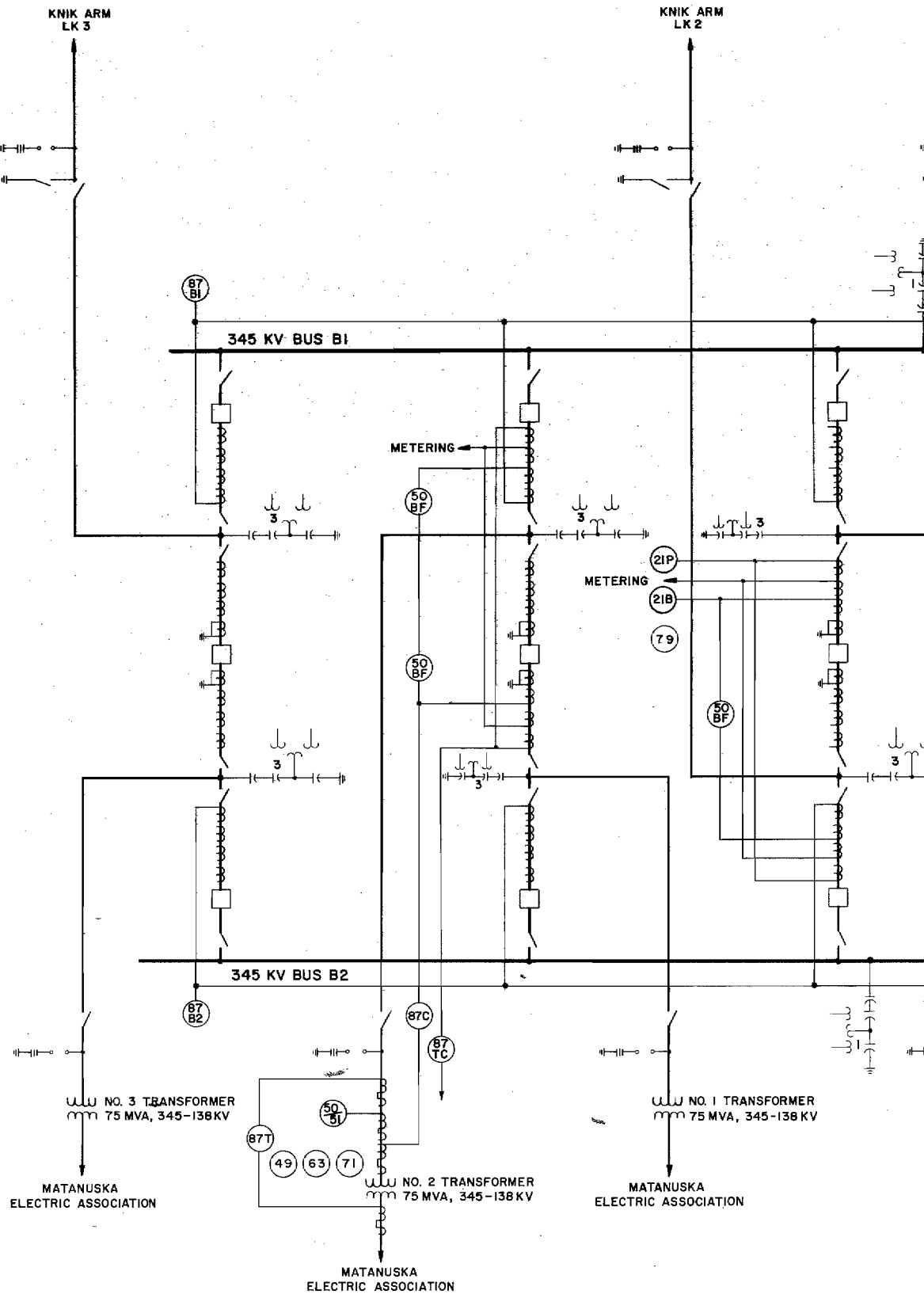
Figure 1 - Willow Substation - Single Line Diagram

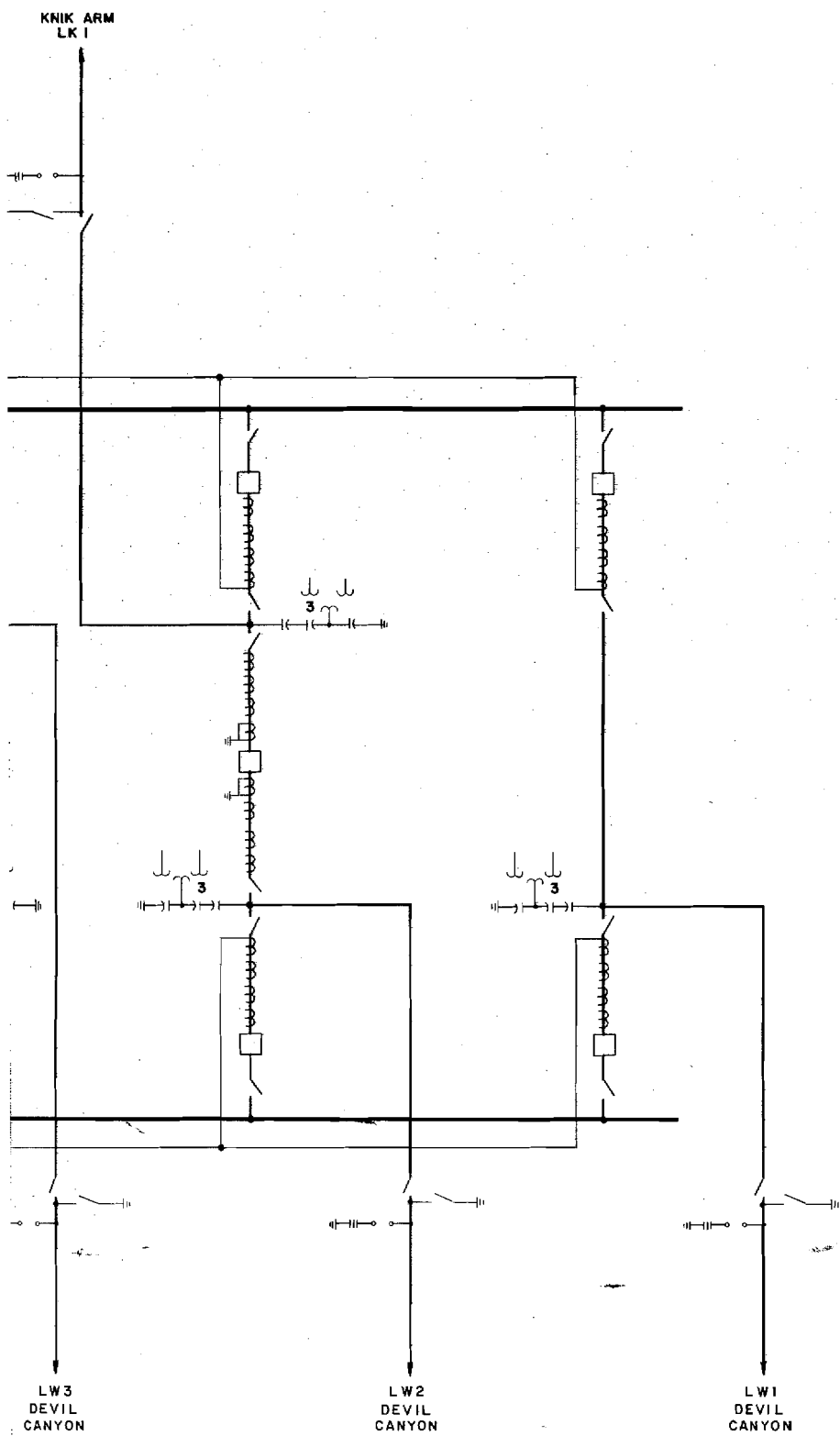
Figure 2 - Knik Arm Substation - Single Line Diagram

Figure 3 - University Substation - Single Line Diagram

Figure 4 - Ester Substation - Single Line Diagram

The substations are part of the 345-kV transmission system and serve as intermediate switching stations or as terminal stations at the major load centers. The single line diagrams depict a "breaker-and-a-half" arrangement of the station and also show the proposed relay protection schemes for transmission line and major equipment.





WILLOW SUBSTATION
SINGLE LINE DIAGRAM

FIGURE 1

SUBMARINE CABLE
UNDER KNIK ARM

WILLOW
LK1

WILLOW
LK2

345 KV BUS B1

345 KV BUS B2

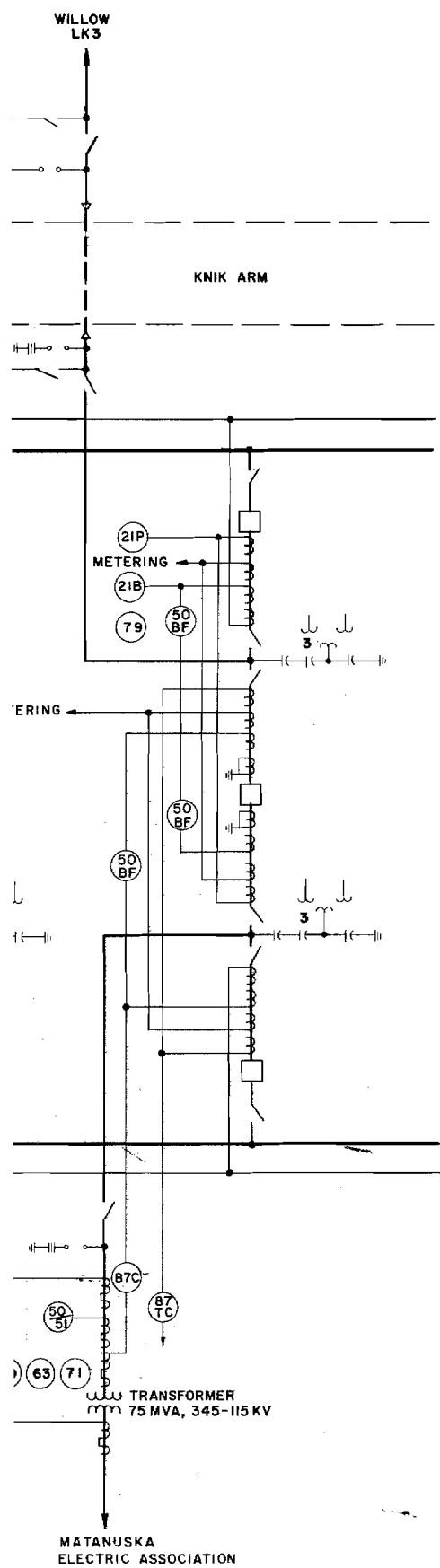
LU1
UNIVERSITY

LU2
UNIVERSITY

(877)

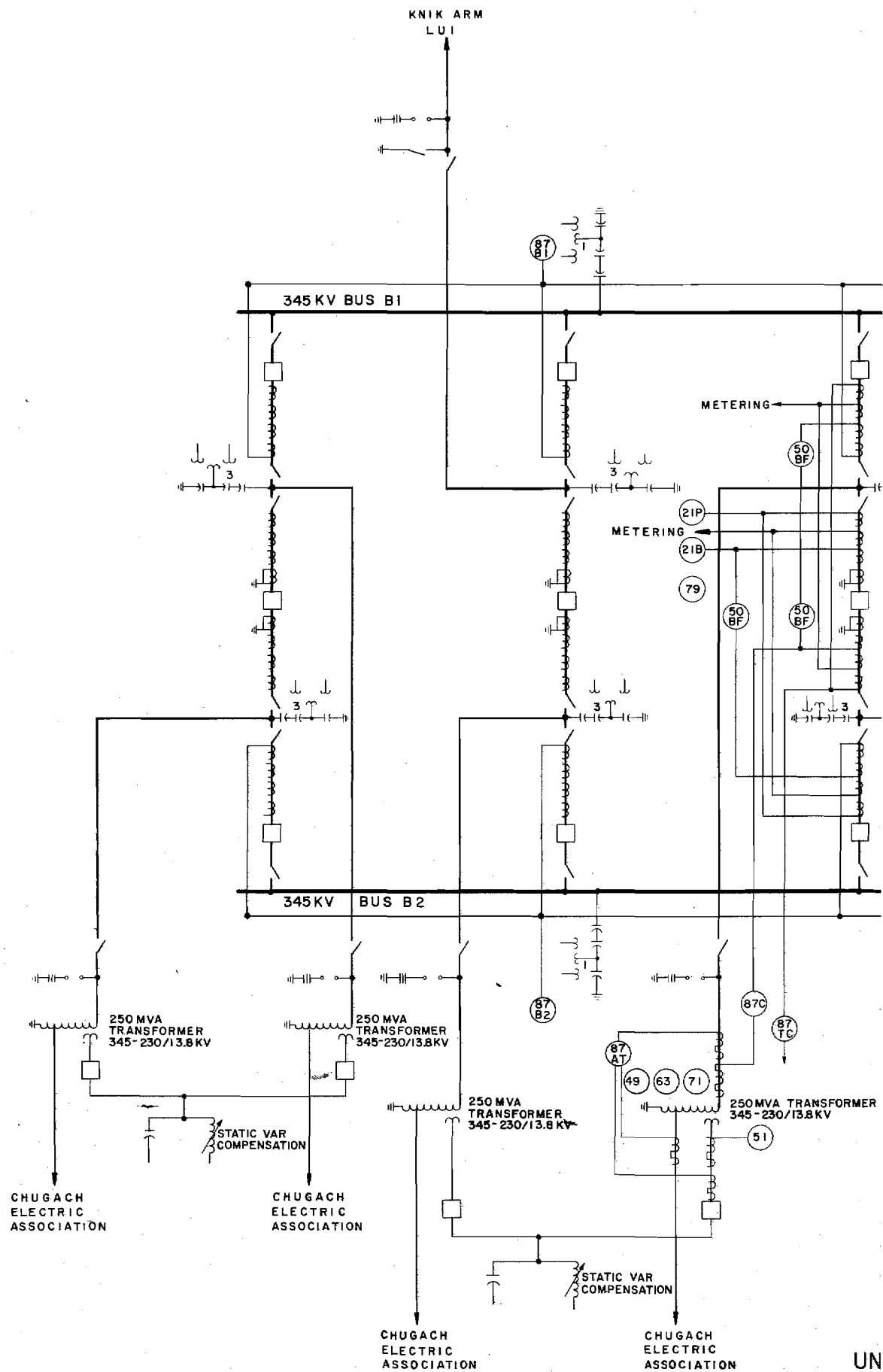
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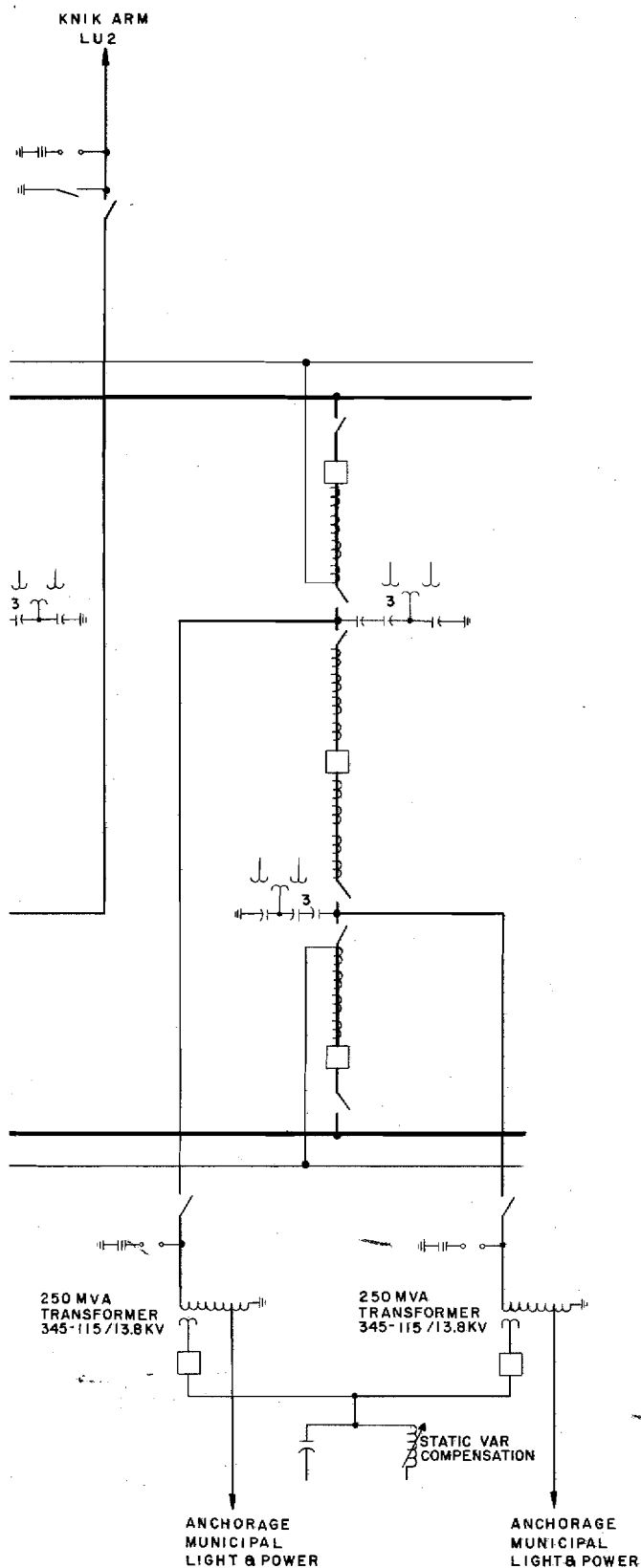
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KNIK ARM SUBSTATION
SINGLE LINE DIAGRAM

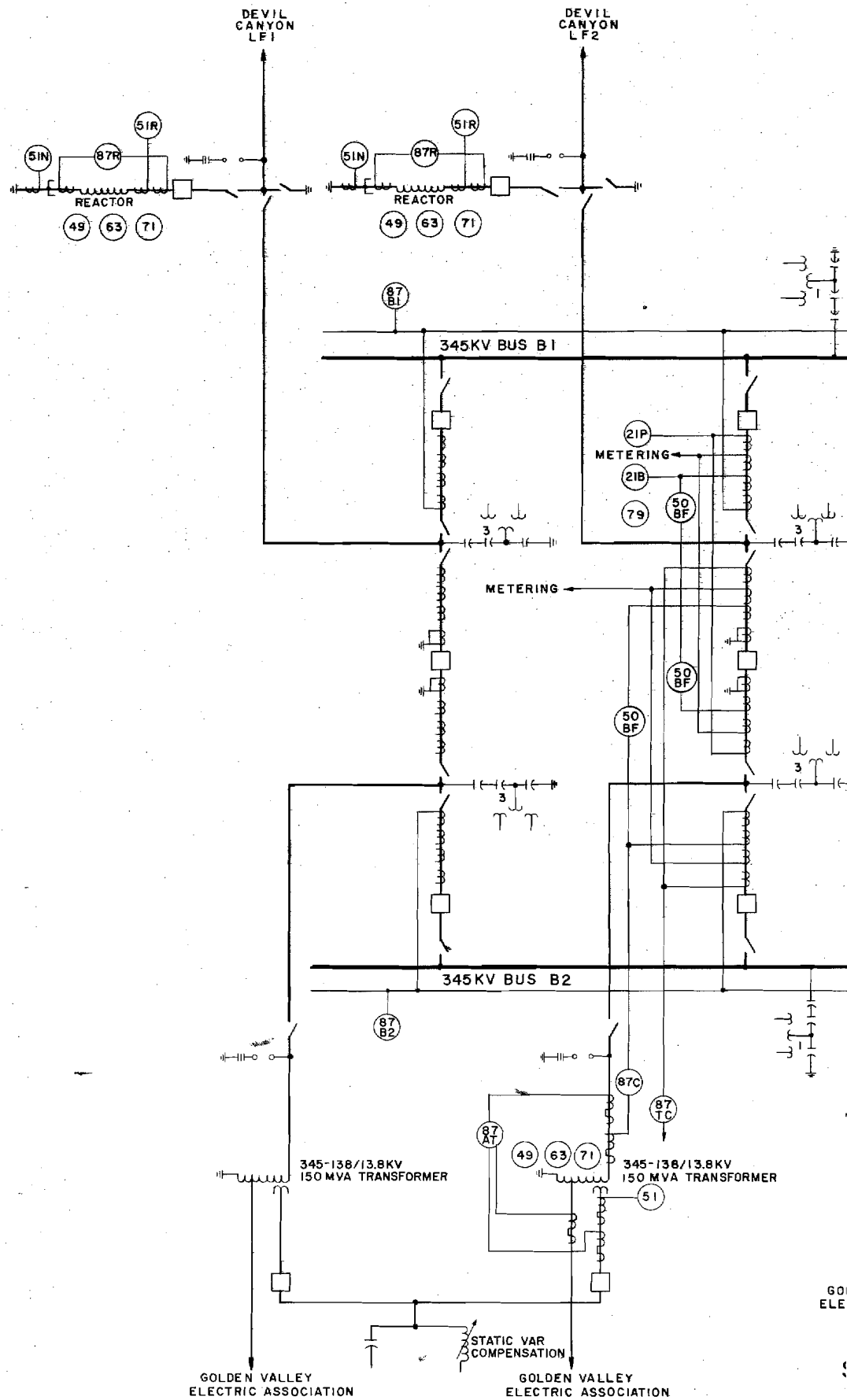
FIGURE 2

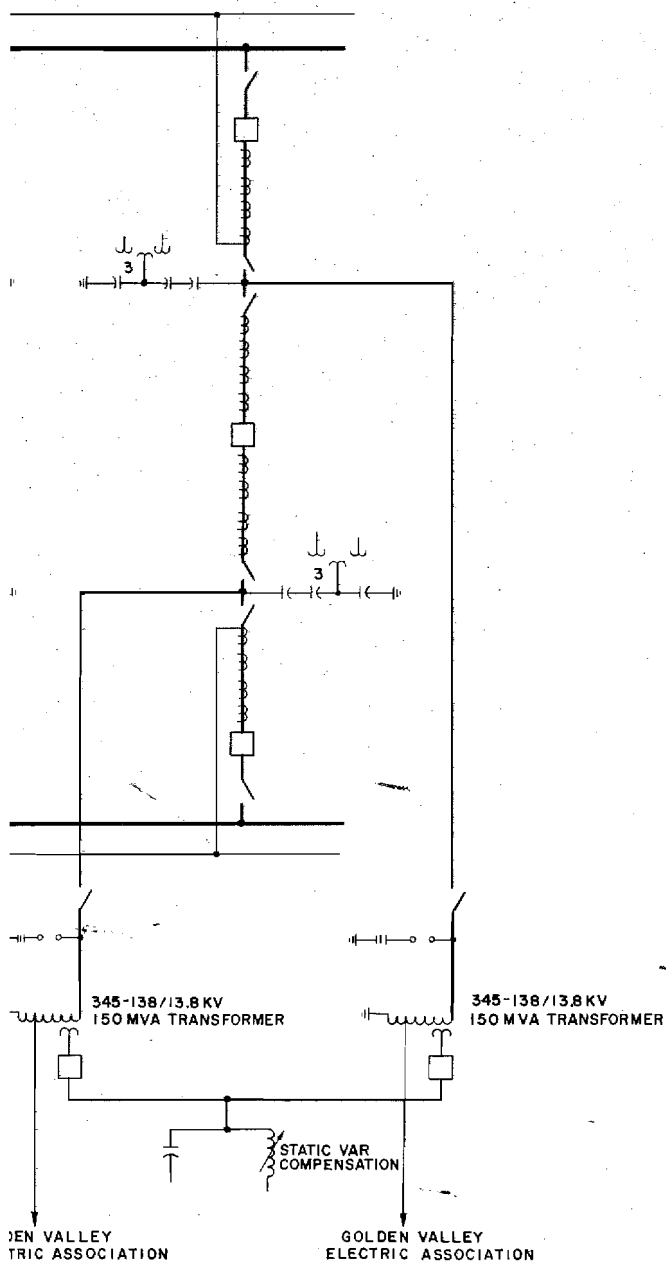




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UNIVERSITY SUBSTATION
 SINGLE LINE DIAGRAM





ESTER SUBSTATION
SINGLE LINE DIAGRAM

FIGURE 4

