

- NOTES:
- CT BUS ZONE TURNS RATIO
 

|       |        |
|-------|--------|
| 400kV | 1/2400 |
| 132kV | 1/2400 |
  - STATION BATTERY VOLTAGE: 220V DC.

| 400kV    |  | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|----------|--|---------|---------|---------|---------|
| BAY      | DESCRIPTION                            |         |         |         |         |
| FEEDER 1 | ACACIA 2                               | ✓       |         |         |         |
| FEEDER 2 | ACACIA 1                               | ✓       |         |         |         |
| FEEDER 3 | STIKLAND 1                             | ✓       |         |         |         |
| FEEDER 4 | STERREKUS 1                            | ✓       |         |         |         |
| FEEDER 5 | ANKERLIG 1                             | ✓       |         |         |         |
| FEEDER 6 | ANKERLIG 2                             | ✓       |         |         |         |
| FEEDER 7 | INTERCONNECTING FEEDER 1               | ✓       |         |         |         |
| FEEDER 8 | INTERCONNECTING FEEDER 2 (TRFR 13 FUT) | ✓       |         |         |         |

| 400kV GENERATOR TRANSFORMERS |                       | STAGE 1     | STAGE 2 | STAGE 3 | STAGE 4 |
|------------------------------|-----------------------|-------------|---------|---------|---------|
| CB RATING                    | BAY                   | DESCRIPTION |         |         |         |
| 400 4000 63                  | GEN TRFR 1 (EXISTING) | 1050MVA     | ✓       |         |         |
| 400 4000 63                  | GEN TRFR 2 (EXISTING) | 1050MVA     | ✓       |         |         |

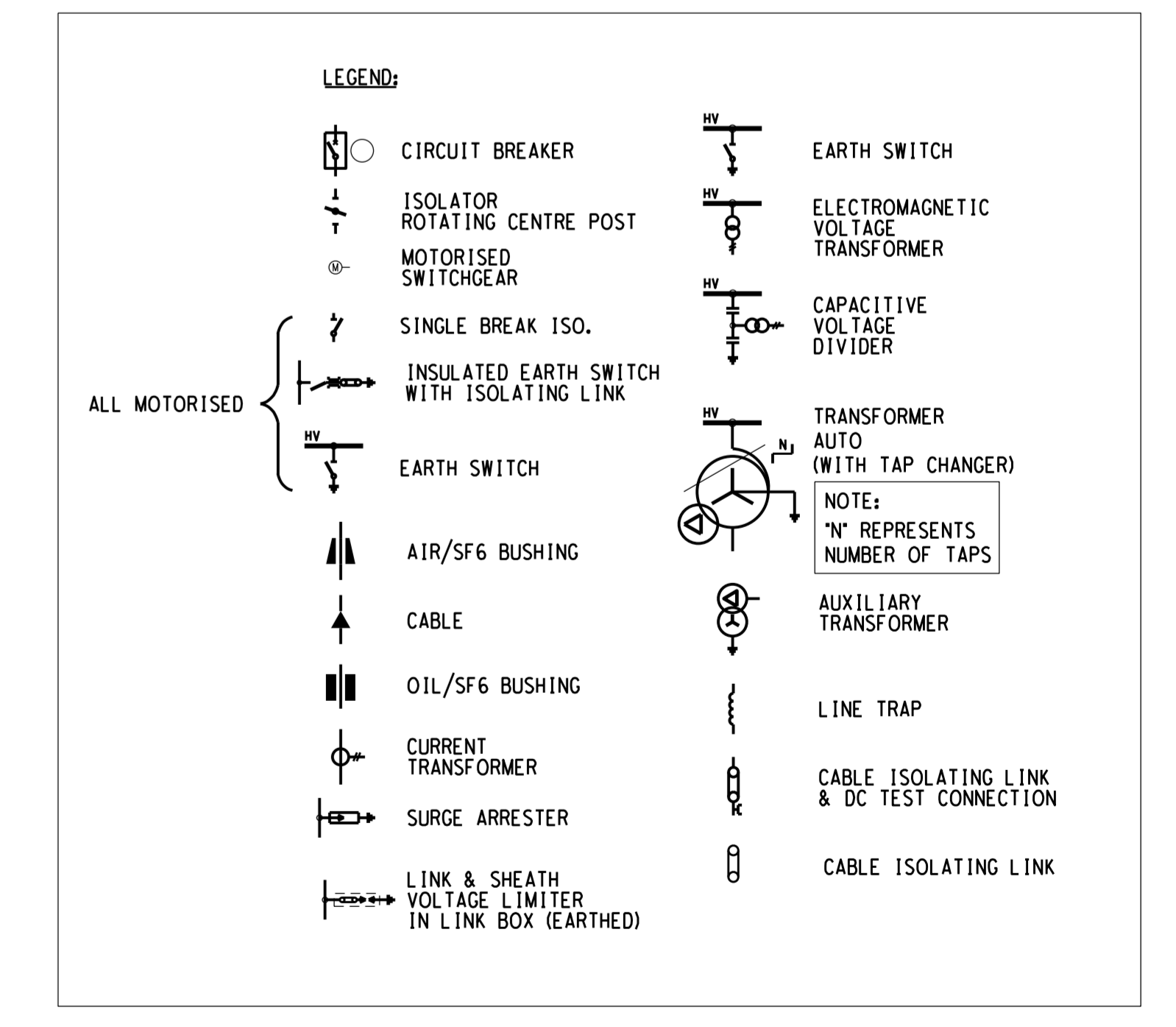
| 400/132kV TRANSFORMERS |             | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|------------------------|-------------|---------|---------|---------|---------|
| BAY                    | DESCRIPTION |         |         |         |         |
| TRANSFORMER 11         | 250MVA      | ✓       |         |         |         |
| TRANSFORMER 12         | 250MVA      | ✓       |         |         |         |
| TRANSFORMER 13         | (FUTURE)    |         |         |         |         |

| 400kV CIRCUIT BREAKERS |      | STAGE 1               | STAGE 2         | STAGE 3 |
|------------------------|------|-----------------------|-----------------|---------|
| C.B. RATING            | TYPE | DESCRIPTION           |                 |         |
| 4000 50 -              | CA   | BAY 1, TIE BAY, BAY 2 | FDR 1 & TRFR 11 | ✓       |
| 4000 50 -              | CB   | BAY 1, TIE BAY, BAY 2 | FDR 2 & FDR 3   | ✓       |
| 4000 50 -              | CC   | BAY 1, BAY 2          | GEN. TRFR 2     | ✓       |
| 4000 50 -              | CD   | BAY 1, BAY 2          | GEN. TRFR 1     | ✓       |
| 4000 50 -              | CE   | BAY 1, TIE BAY, BAY 2 | FDR 4 & FDR 5   | ✓       |
| 4000 50 -              | CF   | BAY 1, TIE BAY, BAY 2 | FDR 6 & TRFR 12 | ✓       |
| 4000 50 -              | CG   | BAY 1, TIE BAY, BAY 2 | FDR 7 & FDR 8   | ✓       |

| 132kV    |                               | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|----------|-------------------------------|---------|---------|---------|---------|
| BAY      | DESCRIPTION                   |         |         |         |         |
| FEEDER 1 | (FUTURE)                      |         |         |         |         |
| FEEDER 2 | (FUTURE)                      |         |         |         |         |
| FEEDER 3 | DASSENBERG 2                  | ✓       |         |         |         |
| FEEDER 4 | DASSENBERG 1                  | ✓       |         |         |         |
| FEEDER 5 | BLAUBERG 1                    | ✓       |         |         |         |
| FEEDER 6 | ANKERLIG 1 (EMERGENCY SUPPLY) | ✓       |         |         |         |
| FEEDER 7 | DUINE 1                       | ✓       |         |         |         |
| FEEDER 8 | (FUTURE)                      |         |         |         |         |

| 132/6.6kV TRANSFORMERS |                           | STAGE 1     | STAGE 2 | STAGE 3 | STAGE 4 |
|------------------------|---------------------------|-------------|---------|---------|---------|
| C.B. RATING            | BAY                       | DESCRIPTION |         |         |         |
| 132 6,6                | STATION TRFR 1 (EXISTING) | 29MVA       | ✓       |         |         |
| 132 6,6                | STATION TRFR 2 (EXISTING) | 29MVA       | ✓       |         |         |

| 132kV CIRCUIT BREAKERS |      | STAGE 1               | STAGE 2                 | STAGE 3 |
|------------------------|------|-----------------------|-------------------------|---------|
| C.B. RATING            | TYPE | DESCRIPTION           |                         |         |
| - - -                  | CA   | FUTURE                | FDR 1 (F) & FDR 2 (F)   |         |
| 3150 40 -              | CB   | BAY 1, TIE BAY, BAY 2 | FDR 3 & TRFR 11         | ✓       |
| 3150 40 -              | CC   | BAY 1, TIE BAY, BAY 2 | FDR 4 & FDR 5           | ✓       |
| 3150 40 -              | CD   | BAY 1, BAY 2          | STATION TRFR 2          | ✓       |
| 3150 40 -              | CE   | BAY 1, TIE BAY, BAY 2 | FDR 6 & STATION TRFR 1  | ✓       |
| 3150 40 -              | CF   | BAY 1, TIE BAY, BAY 2 | FDR 7 & TRFR 12         | ✓       |
| - - -                  | CG   | FUTURE                | FDR 8 (F) & TRFR 13 (F) |         |



|   |   |   |   |
|---|---|---|---|
| <p>3 2 1</p> <p>3 ORIGINAL DESIGN REVISIONS TO BE APPROVED BY THE CLIENT FOR THE SUBSTATION DESIGN. THE DESIGN SHALL BE SUBJECT TO THE CLIENT'S APPROVAL AND THE CLIENT SHALL BE RESPONSIBLE FOR THE DESIGN. THE DESIGN SHALL BE SUBJECT TO THE CLIENT'S APPROVAL AND THE CLIENT SHALL BE RESPONSIBLE FOR THE DESIGN.</p> | <p>2 1</p> <p>2 ORIGINAL DESIGN REVISIONS TO BE APPROVED BY THE CLIENT FOR THE SUBSTATION DESIGN. THE DESIGN SHALL BE SUBJECT TO THE CLIENT'S APPROVAL AND THE CLIENT SHALL BE RESPONSIBLE FOR THE DESIGN. THE DESIGN SHALL BE SUBJECT TO THE CLIENT'S APPROVAL AND THE CLIENT SHALL BE RESPONSIBLE FOR THE DESIGN.</p> | <p>1 0</p> <p>1 ORIGINAL DESIGN REVISIONS TO BE APPROVED BY THE CLIENT FOR THE SUBSTATION DESIGN. THE DESIGN SHALL BE SUBJECT TO THE CLIENT'S APPROVAL AND THE CLIENT SHALL BE RESPONSIBLE FOR THE DESIGN. THE DESIGN SHALL BE SUBJECT TO THE CLIENT'S APPROVAL AND THE CLIENT SHALL BE RESPONSIBLE FOR THE DESIGN.</p> | <p>0 0</p> <p>0 ORIGINAL DESIGN REVISIONS TO BE APPROVED BY THE CLIENT FOR THE SUBSTATION DESIGN. THE DESIGN SHALL BE SUBJECT TO THE CLIENT'S APPROVAL AND THE CLIENT SHALL BE RESPONSIBLE FOR THE DESIGN. THE DESIGN SHALL BE SUBJECT TO THE CLIENT'S APPROVAL AND THE CLIENT SHALL BE RESPONSIBLE FOR THE DESIGN.</p> |
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**WESKUSFLEUR**  
 STATION ELECTRIC DIAGRAM  
 Wkoe11P01-SE-D6 0 3

**DETAIL DESIGN**  
 NOT FOR CONSTRUCTION

ORIGINAL DWG NO: 0-66333 REV: 18  
 CONCEPT DWG NO: Wkoe11P01-SE-D6-1-1 & 2

SCALE: ~