



- NOTES:**
1. ALL 275kV & 400kV STEELWORK ALL CONNECTIONS USE EW1 WITH THE U-BOLT IN VERTICAL POSITION.
  2. STEELWORK 132kV AND BELOW EW PEAK DESIGN REQUIRES 1 OFF EW1 & 1 OFF EW2 FOR ALL THROUGH CONDUCTOR ARRANGEMENT.
  3. ALL DEAD END CONNECTIONS TO BE USE EW1 WITH U-BOLT IN VERTICAL POSITION, EXCEPT WHERE 2x EARTH-WIRES ARE ATTACHED TO THE SAME U-BOLT THEN USE EW2 WITH U-BOLT HORIZONTAL.

ITEM	ARRANGMENT No	CONDUCTOR DIA
EW 1	1	10 TO 21,5mm
EW 2	2	10 TO 21,5mm

SEE DRG 0.54/412 SHEET 41

EARTHWIRE CONDUCTOR & HARDWARE SCHEDULE			
DESCRIPTION	MK	ITEM	QUANTITY
CONDUCTOR (HARE)	-	1x100mm <sup>2</sup>	2350m
EARTH-WIRE CLAMPS	1	EW1	71
PG CLAMPS	2	EW2	10
PG CLAMPS	3	PG CLAMPS	48

- NOTES:**
1. [Symbol] INDICATES EARTHWIRE SUPPORT ON COLUMN.
  2. [Symbol] INDICATES EARTH-WIRE.
  3. [Symbol] INDICATES FUTURE EARTH-WIRE.
  4. FOR TYPICAL ARRANGEMENT OF EARTH-WIRE, REFER TO CLAMP & HARDWARE STANDARDS DRAWING 0.54/412 SHEET 41.

**FINAL DESIGN FOR CONSTRUCTION**  
 ORIGINAL DRG # 0.18/19712 REV 0  
 CONCEPT DRG # N/A  
 DETAIL DRG # Mo21P05-SE-011 REV 1

- NOTES:**
1. ALL CIVIL WORKS TO COMPLY WITH S.A.B.S 1200.
  2. FOR STANDARD EARTHING SPEC SEE 0.54/393.
  3. REFER TO 0.54/390 FOR STANDARD CIVIL DETAIL.
  4. CABLE TRENCH SHOWN AS THUS:
  5. REFER TO 0.54/320 FOR STANDARD CIVIL DETAIL.
  6. FOR EQUIPMENT FOUNDATION LAYOUT SEE BAY LAYOUT SCHEDULE 0.37/5223
  7. ORIENTATION OF EQUIPMENT FOUNDATIONS WHEN LINED UP WITH SIMILAR ARROW ON BAY LAYOUT SCHEDULE.
  8. REFER TO DRG 0.37/5220 FOR SECURITY FENCE SETTING OUT DIMENSIONS
  9. FOUNDATIONS INDICATED AS BEING GROUPED TO BE IN ACCORDANCE WITH S.A.B.S 1200.
  10. SEE BAY LAYOUT SCHEDULE 0.18/19713 FOR EARTHING OF EQUIPMENT
  11. EARTH/MAT MATERIAL TO BE CONFIRMED AFTER TERRACE CONSTRUCTION

REV	REVISION DESCRIPTION	DRAWN	CHECKED	DATE	KEY PLAN
0	FIRST ISSUE				ES
APPROVED BY:	R Ramnarain				National Transmission Company South Africa SOC Ltd
DATE:	02/03/2026	Mo21P05-SE-REFERENCE DRAWING			
SHEET NO:	0				0
DATE:	24/02/2026	Mo21P05-SE-011 REV 1			
SCALE:	1:1000	Mo21P05-SE-E8			