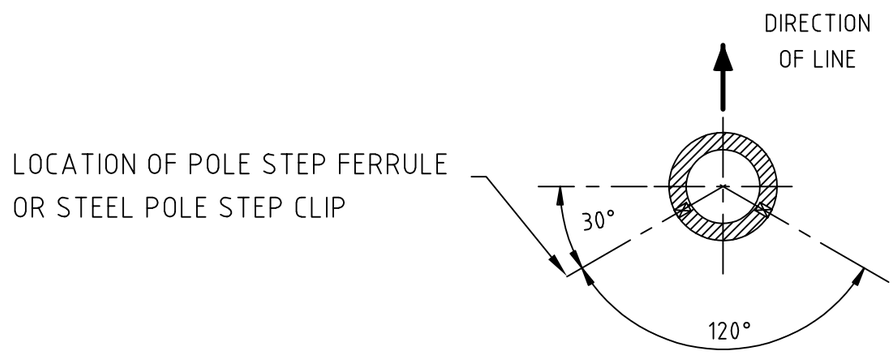
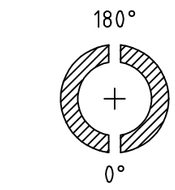
| AMENDMENTS | |
|---|---|
| A | ORIGINAL ISSUE |
| Job No. | CA104907 |
| B – DR'N | M.C. |
| B – CH'D | R.L. |
| B – DATE | 09-03-10 |
| B – JR No | N/A |
| REVISED TO ALIGN POLE STEP SPACING WITH DISTRIBUTION STANDARD. | |
| DSM | J.B. |
| C – DR'N | S.F. |
| C – CH'D | E.W. |
| C – DATE | 26-09-24 |
| C – JR No | N/A |
| ADD TWO HOLE FERRULES. TWO EARTHING FERRULE RELOCATED. NOTES UPDATED. CONSTRUCTION TOLERANCE TABLE DELETED. TABLE 1 UPDATED. SECTIONS ADDED. | |
| EDM | K.S. |
| D – DR'N | S.F. |
| D – CH'D | E.W. |
| D – DATE | 05-12-24 |
| D – JR No | N/A |
| NOTES 5 -7 ADDED. LEGEND UPDATED. TABLE 1 UPDATED. | |
| EDM | K.S. |

## NOTES

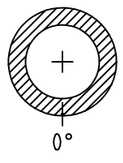
1. POLE STEPS ARE REQUIRED TO BE INSTALLED FROM 8.3M ABOVE GROUND LEVEL. WHERE NORMAL VEHICLE ACCESS IS NOT AVAILABLE (OFF ROAD) POLE STEPS WILL BE REQUIRED FROM 6M ABOVE GROUND LEVEL. ALL CONCRETE AND STEEL POLES SHOULD HAVE FERRULES FROM 6M REGARDLESS.
2. DISTRIBUTION FERRULES AND HOLE FORMERS:-
   A) ONLY REQUIRED IF SPECIFIED AND IN ACCORDANCE WITH ORG: 331149
   B) FIRST (HIGHEST) DISTRIBUTION HOLE FORMER ABOVE GROUND POSITION TO BE SPECIFIED.
   C) MINIMUM HOLE FORMER HEIGHT ABOVE GROUND = 4.6M
3. HOLES & FERRULES TO SUIT CONSTRUCTION 81S/C, 82S/C, 83S/C, 84S/C, 85S/C, 86S/C, 86VS/VC.
4. ALLOWABLE CONSTRUCTION TOLERANCE FOR STEEL POLES IS +/- 25.4MM FOR SINGLE SEGMENT POLES AND +/-25.4MM PER SEGMENT FOR MULTI SEGMENT POLES.
5. WHERE CORROSION PROTECTION IS SPECIFIED, THE AFFECTED EARTH FERRULE SHALL BE RELOCATED 100MM ABOVE THE COATING.
6. WHERE TOUCH PROTECTION IS SPECIFIED, THE ID TAG SHALL BE RELOCATED 100MM ABOVE THE COATING.
7. A 22MM ID INSPECTION HOLE SHALL BE LOCATED 650MM ABOVE GROUND LEVEL FOR STEEL POLES ONLY.



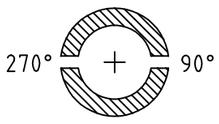

SECTION A - A
POLE STEP FACE



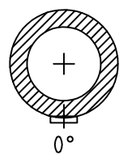

SECTION E1 - E1
25ϕ HOLE




SECTION G - G
M12 EARTH FERRULE



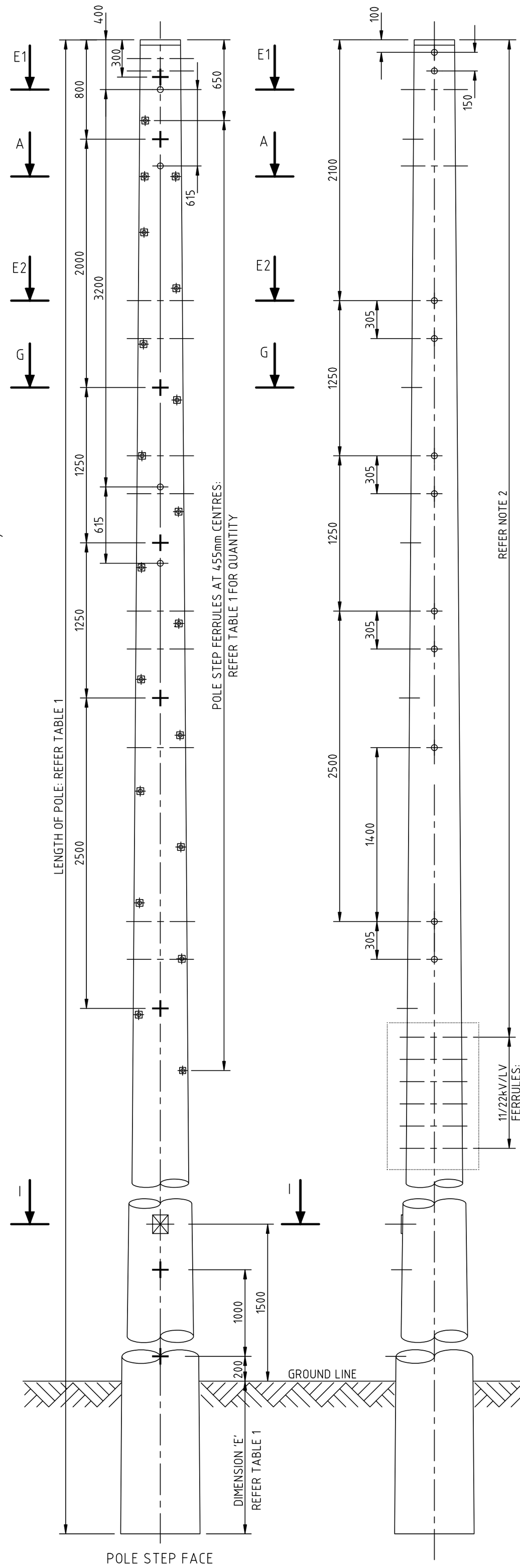

SECTION E2 - E2
25ϕ HOLE




SECTION I - I
IDENTIFICATION PLATE

| Table 1 | | | | | |
|---|---|---|---|---|---|
| Steel | | | | Concrete | |
| LENGTH OF POLE | POLE STRENGTH | DIMENSION 'E' | Qty of Pole Step Ferrule | DIMENSION 'E' | Qty of Pole Step Ferrule |
| 17 | 32 | 3100 | 22 | 3100 | 22 |
| 18.5 | 32 | 3200 | 25 | 3200 | 25 |
| | 40 | 3600 | | 3600 | |
| | 60 | 4200 | | 4200 | |
| 20 | 32 | 3400 | 27 | 3400 | 28 |
| | 40 | 3600 | | 3800 | |
| | 60 | 4400 | | 4400 | |
| 21.4 | 32 | 3500 | 30 | 3500 | 30 |
| | 40 | 3700 | | 3900 | |
| | 60 | 4200 | | 4600 | |
| 23 | 32 | 3600 | 34 | 3600 | 34 |
| | 40 | 3900 | | 4100 | |
| | 60 | 4300 | | 4700 | |
| 24 | - | - | - | 3700 | 36 |
| | - | - | - | 4200 | |
| | - | - | - | 4800 | |

| LEGEND | | | |
|---|---|---|---|
| SYMBOL | DESCRIPTION | QTY | DRG |
| ⌖ | CONCRETE: STAINLESS STEEL FERRULE ϕ22 ID<br>STEEL: HOLE ϕ25 ID | 15 | |
| + | EARTHING FERRULE LOCATION M12 | 8 | |
| ⊕ | POLE STEP FERRULE LOCATION M16 | REFER TABLE ABOVE | |
| ⊠ | IDENTIFICATION PLATE | 1 | 053999 |

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| | | | |
|---|---|---|---|
| ORIGINAL SCALE | NONE | APPROVED | M. Cupples |
| DRAWN | B.F. | | |
| DATE | 08.10.09 | | |
| CH'D | R.L. | | |

Endeavour Energy

REFERENCE DRAWINGS

DO NOT SCALE
DIMENSIONS IN MILLIMETRES

AUTHORISED
D. Asvestas / J. Broadhead

MGR TRANSMISSION CAPITAL PROJECT DEVELOPMENT 19.10.09

# OVERHEAD TRANSMISSION 132kV POLE TYPE '80 SERIES' HOLE & FERRULE LAYOUT

A2P | 339927 | Rev. D

SHEET No 1 OF 1 SHEETS