



- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.
  2. MINIMUM DIRECT EMBEDMENT DEPTHS FOR VARIOUS POLES ARE CALCULATED BASED ON HORIZONTAL FORCES ON THE TIP OF THE POLE (SERVICEABILITY STRENGTH), HEIGHT ABOVE GROUND, BEARING STRENGTH OF SOIL ( $f_b$ ) 150kPa AND EFFECTIVE WIDTH OF FOOTING ( $b$ ) 0.6m. FOR FURTHER DETAILS, PLEASE REFER TO OVERHEAD LINE DESIGN MANUAL – PO07132.
  3. SOIL CLASSIFICATION MUST BE CONFIRMED BY INSPECTION DURING CONSTRUCTION.

TABLE 1: SOIL CLASSIFICATION FIELD GUIDE

CLASS	DESCRIPTION	BEARING STRENGTH (kPa)	FIELD GUIDE
VERY SOFT	SILTY CLAYS AND SANDS; LOOSE DRY SANDS	$f_b \leq 60$	EXUDES BETWEEN FINGERS WHEN SQUEEZED BY HAND
SOFT	WET CLAYS: SILTY LOAMS; WET OR LOOSE SANDS	$60 < f_b \leq 100$	CAN BE MOULDED BY LIGHT FINGER PRESSURE
FIRM	DAMP CLAYS; SANDY CLAYS; DAMP SANDS	$100 < f_b \leq 150$	CAN BE MOULDED BY STRONG FINGER PRESSURE
VERY FIRM	DRY CLAYS; CLAYEY SANDS; COARSE SANDS; COMPACTED SANDS	$150 < f_b \leq 240$	CANNOT BE MOULDED BY FINGERS, CAN BE INDENTED BY THUMB.
HARD	GRAVELS; DRY CLAYS	$240 < f_b$	CAN BE INDENTED WITH DIFFICULTY BY THUMB NAIL

4. ALL HOLES MUST BORED VERTICALLY TO MEET THE DEPTH (L) AND WIDTH (b) OF 0.6m SPECIFIED IN THIS DRAWING AND TABLE 2. (USE A LARGER DIAMETER AUGER FOR POOR BEARING SOILS OR VISE VERSA).

TABLE 2: MINIMUM EMBEDMENT DEPTHS

APPLICATION AND HOLE TYPE	POLE HEIGHT (m)	HORIZONTAL FORCE $H_r$ (kN)	EMBEDMENT DEPTH 'L' (m)
LV - TYPE 1B	9.5	8	1.6

5. ALL HOLES MUST BE CLEANED OF DEBRIS & SOIL REMOVED FROM THE HOLE & HOLE EDGES.
6. BACKFILL MATERIAL MUST BE FINE CRUSHED ROCK "DGB20 ROAD BASE" TO EVOENERGY SPECIFICATION QUARRY PRODUCTS AND RAW MATERIALS - PO07330.
7. THE BACKFILL IS TO BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 200mm LOOSE THICKNESS, TO A DENSITY NOT LESS THAN 90% MODIFIED MAXIMUM DRY DENSITY, UP TO A DEPTH OF 300mm FROM GROUND LEVEL.

No.	DESCRIPTION	CKD	AUTH	DATE
A	PRELIMINARY	MJB	WJC	
B	UPDATED AS PER UOM PROJECT	JJP	WNI	11/02/2016
C	EVOENERGY BRANDING	NAA	WJC	27/01/2021
D	NOTATION AND TABLES REVISED	NAA	WJC	31/01/2024



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ITEM	UA TYPE	DESCRIPTION	STOCK CODE	QTY	DRAWING NO
1	P	FINE CRUSHED ROCK (ROAD BASE) DELIVERED	-	0.4 m <sup>3</sup>	D109-0002

  

Drawn: B.P J.A.K.	STANDARD CONSTRUCTION, DISTRIBUTION OVERHEAD, CONDUCTORS AND ACCESSORIES, SA, POLE FOUNDATION, 9.5m COMPOSITE POLES	Scale: NTS	Date: 5/03/2014	Sheet No.:
Designed:		Project No.:	Stock Code:	
Checked: M. Butson 25/06/2014		Status: Current		
Branch Engineer: W. Cleland 25/06/2014				
Branch Manager:				
Old Drawing No. and Revision:	Rev	A2	D204-0017	Rev D