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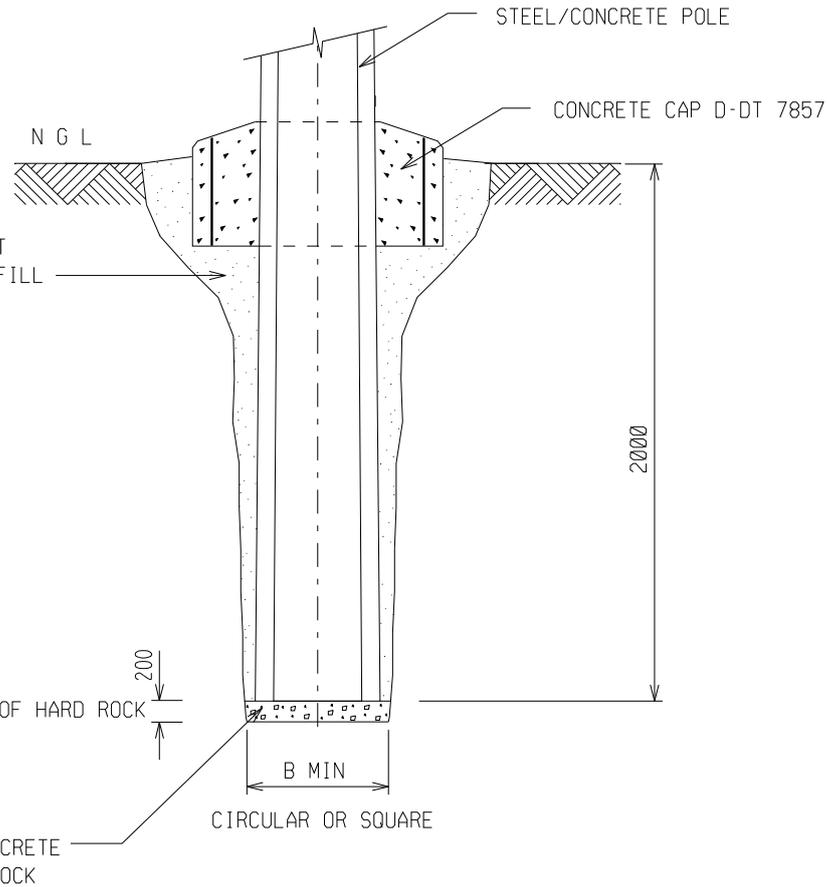
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STRAIN STRUCTURE FOUNDATION
FOR ROCK AND SOFT ROCK (MIN 500KPA)

37kN & 23kN TIP LOADS	POLE LENGTH (m)	PLANTING DEPTH D (M)	B (m)	EXCAVATION VOLUME m ³	BACKFILL SOIL/CEMENT m ³	25MPa CONCRETE m ³
	20	2.0	0.70	1.27	0.796	0.077
	21	2.0	0.75	1.37	0.807	0.088
	22	2.0	0.80	1.48	0.853	0.101
	23	2.0	0.85	1.59	0.934	0.114
	24	2.0	0.90	1.72	0.999	0.123

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NOTE : VOLUMES ARE APPROXIMATE ONLY
"B" DIMS ARE MINIMUM TO FIT POLE INTO EXCAVATION

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2	RETICULATION REMOVED FROM TITLE BLOCK	N.M.	P.A.T.	P.A.T.	31.01.10	
1	STEEL POLE CHANGED TO STEEL/CONCRETE POLE	N.M.	B.HILL	B.HILL	05.08.08	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

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		DISTRIBUTION TECHNOLOGY SUB-TRANSMISSION LINES MONOPOLE STAYED STRAIN STRUCTURE 0-90 DEGREES FOUNDATION DETAILS-ROCK			
AUTH: A BEKKER		D DT 7851			
DATE: NOV 2005					
CHKD: S LE ROUX					
DATE: NOV 2005					
DRAWN: B MOICHELA					
DATE: OCT 2005					
		SET	SHEET	REVISION	
		5	1	2	

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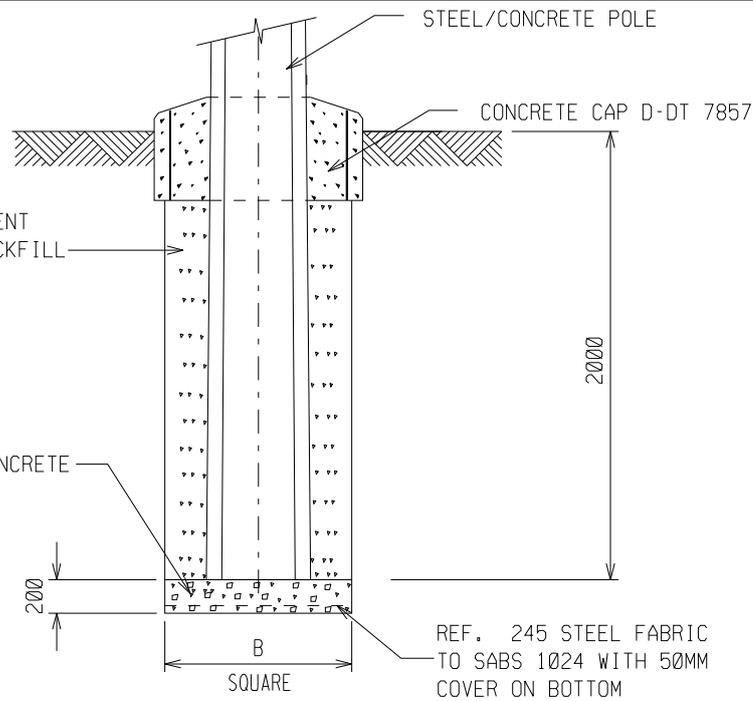
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STRAIN STRUCTURE FOUNDATION
FOR NORMAL SOIL TYPE 1 (300KPA)

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0-30 DEG.	POLE LENGTH (m)	PLANTING DEPTH D (m)	B (m)	EXCAVATION VOLUME m ³	BACKFILL SOIL/CEMENT m ³	25MPa CONCRETE m ³
	20	2.0	0.70	1.458	0.388	0.098
21	2.0	0.75	1.589	0.425	0.113	
22	2.0	0.80	1.728	0.498	0.128	
23	2.0	0.85	1.877	0.607	0.145	
24	2.0	0.90	2.034	0.702	0.162	
31-60 DEG.	POLE LENGTH (m)	PLANTING DEPTH D (m)	B (m)	EXCAVATION VOLUME m ³	BACKFILL SOIL/CEMENT m ³	25MPa CONCRETE m ³
	20	2.0	1.0	2.376	1.204	0.2
21	2.0	1.0	2.376	1.125	0.2	
22	2.0	1.0	2.376	1.074	0.2	
23	2.0	1.0	2.376	1.051	0.2	
24	2.0	1.0	2.376	1.006	0.2	
61-90 DEG.	POLE LENGTH (m)	PLANTING DEPTH D (m)	B (m)	EXCAVATION VOLUME m ³	BACKFILL SOIL/CEMENT m ³	25MPa CONCRETE m ³
	20	2.0	1.2	3.168	1.907	0.288
21	2.0	1.2	3.168	1.829	0.288	
22	2.0	1.2	3.168	1.778	0.288	
23	2.0	1.2	3.168	1.755	0.288	
24	2.0	1.2	3.168	1.710	0.288	

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NOTE : VOLUMES ARE APPROXIMATE ONLY

2	RETICULATION REMOVED FROM TITLE BLOCK	N.M.	P.A.T.	P.A.T.	31.01.10	
1	STEEL POLE CHANGED TO STEEL/CONCRETE POLE	N.M.	B.HILL	B.HILL	05.08.08	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

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		DISTRIBUTION TECHNOLOGY SUB-TRANSMISSION LINES MONOPOLE STAYED STRAIN STRUCTURE 0-90 DEGREES FOUNDATION DETAILS-3005PA			
AUTH: A BEKKER					
DATE: NOV 2005					
CHKD: S LE ROUX					
DATE: NOV 2005					
DRAWN: B MOICHELA					
DATE: OCT 2005					
D DT 7851		SET	SHEET	REVISION	
		5	2	2	

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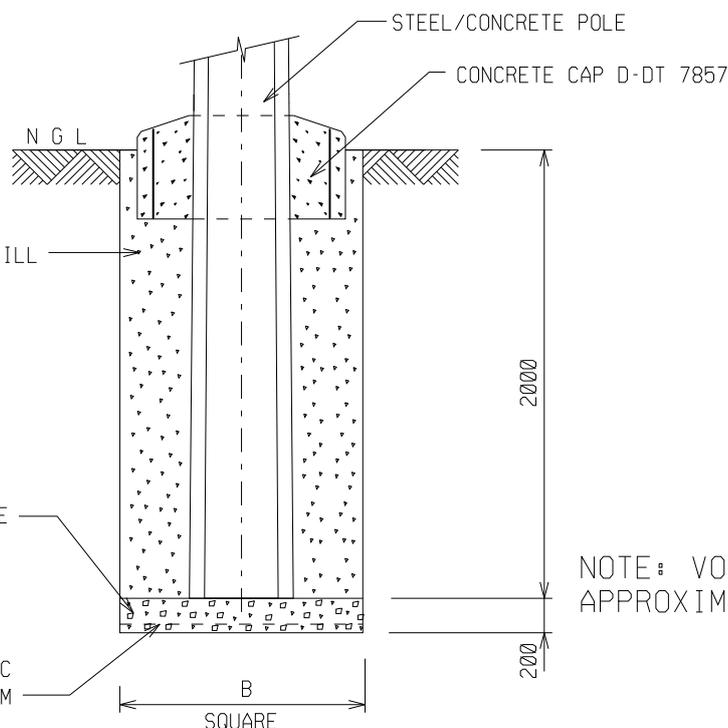
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STRAIN STRUCTURE FOUNDATION
FOR INTERMEDIATE SOIL TYPE 2 (150KPA)

ANGLE DEG.	POLE	PLANTING	B	EXCAVATION	BACKFILL	25MPa
	LENGTH (m)	DEPTH D (m)	(m)	VOLUME m ³	SOIL/CEMENT m ³	CONCRETE m ³
0-30 DEG.	20	2.0	1.0	2.2	1.027	0.2
	21	2.0	1.0	2.2	0.949	0.2
	22	2.0	1.0	2.2	0.898	0.2
	23	2.0	1.0	2.2	0.875	0.2
	24	2.0	1.0	2.2	0.830	0.2
31-60 DEG.	20	2.0	1.4	4.312	2.940	0.392
	21	2.0	1.4	4.312	2.869	0.392
	22	2.0	1.4	4.312	2.818	0.392
	23	2.0	1.4	4.312	2.795	0.392
	24	2.0	1.4	4.312	2.750	0.392
61-90 DEG.	20	2.0	1.6	5.632	4.267	0.512
	21	2.0	1.6	5.632	4.189	0.512
	22	2.0	1.6	5.632	4.138	0.512
	23	2.0	1.6	5.632	4.115	0.512
	24	2.0	1.6	5.632	4.070	0.512

2	RETICULATION REMOVED FROM TITLE BLOCK	N.M.	P.A.T.	P.A.T.	31.01.10	
1	STEEL POLE CHANGED TO STEEL/CONCRETE POLE	N.M.	B.HILL	B.HILL	05.08.08	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.



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DATE: NOV 2005

CHKD: S LE ROUX

DATE: NOV 2005

DRAWN: B MOICHELA

DATE: OCT 2005

DISTRIBUTION TECHNOLOGY
SUB-TRANSMISSION LINES
MONOPOLE STAYED STRAIN STRUCTURE
0-9 DEGREES FOUNDATION DETAILS-150KPA

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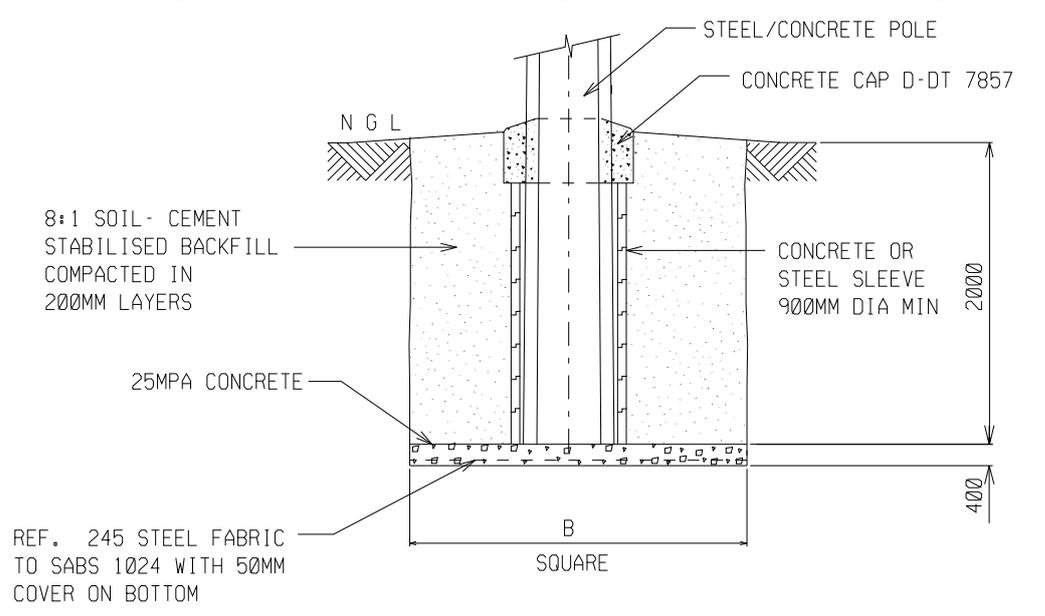
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STRAIN STRUCTURE FOUNDATION
FOR SANDY, LOOSE, COHESIONLESS SOILS TYPE 3 (100KPA)

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	POLE LENGTH (m)	PLANTING DEPTH D (m)	B (m)	EXCAVATION VOLUME m ³	BACKFILL SOIL/CEMENT m ³	25MPa CONCRETE m ³
0-30 DEG.	20	2.0	1.2	7.776	5.507	1.296
	21	2.0	1.2	7.776	5.429	1.296
	22	2.0	1.2	7.776	5.378	1.296
	23	2.0	1.2	7.776	5.355	1.296
	24	2.0	1.2	7.776	5.31	1.296
31-60 DEG.	20	2.0	1.7	13.824	10.548	2.304
	21	2.0	1.7	13.824	10.469	2.304
	22	2.0	1.7	13.824	10.418	2.304
	23	2.0	1.7	13.824	10.395	2.304
	24	2.0	1.7	13.824	10.35	2.304
61-90 DEG.	20	2.0	1.9	17.496	13.607	2.916
	21	2.0	1.9	17.496	13.529	2.916
	22	2.0	1.9	17.496	13.478	2.916
	23	2.0	1.9	17.496	13.455	2.916
	24	2.0	1.9	17.496	13.41	2.916

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NOTE: VOLUMES ARE APPROXIMATE ONLY

2	RETICULATION REMOVED FROM TITLE BLOCK	N.M.	P.A.T.	P.A.T.	31.01.10	
1	STEEL POLE CHANGED TO STEEL/CONCRETE POLE	N.M.	B.HILL	B.HILL	05.08.08	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

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AUTH: A BEKKER

DATE: NOV 2005

CHKD: S LE ROUX

DATE: NOV 2005

DRAWN: B MOICHELA

DATE: OCT 2005

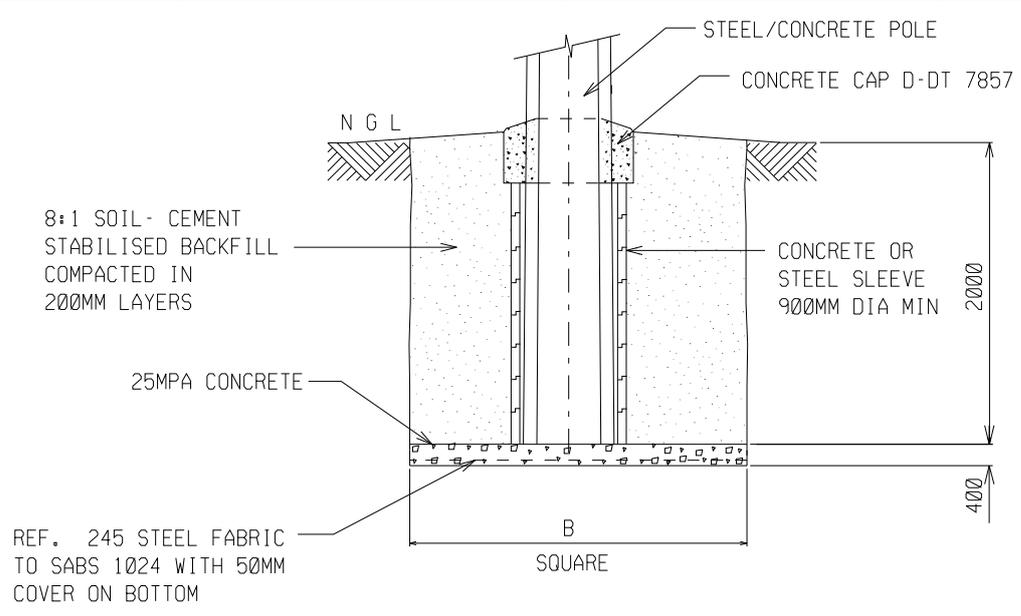
DISTRIBUTION TECHNOLOGY
SUB-TRANSMISSION LINES
MONOPOLE STAYED STRAIN STRUCTURE
0-90 DEGREES FOUNDATION DETAILS-100KPA

D DT 7851

SET	SHEET	REVISION
5	4	2

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STRAIN STRUCTURE FOUNDATION
FOR SUBMERGED, COHESIONLESS SOIL TYPE 4 (50KPA)

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	POLE LENGTH (m)	PLANTING DEPTH D (m)	B (m)	EXCAVATION VOLUME m ³	BACKFILL SOIL/CEMENT m ³	25MPa CONCRETE m ³
0-30 DEG.	20	2.0	1.8	7.776	5.507	1.296
	21	2.0	1.8	7.776	5.429	1.296
	22	2.0	1.8	7.776	5.378	1.296
	23	2.0	1.8	7.776	5.355	1.296
	24	2.0	1.8	7.776	5.31	1.296
31-60 DEG.	20	2.0	2.4	13.824	10.548	2.304
	21	2.0	2.4	13.824	10.469	2.304
	22	2.0	2.4	13.824	10.418	2.304
	23	2.0	2.4	13.824	10.395	2.304
	24	2.0	2.4	13.824	10.35	2.304
61-90 DEG.	20	2.0	2.7	17.496	13.607	2.916
	21	2.0	2.7	17.496	13.529	2.916
	22	2.0	2.7	17.496	13.478	2.916
	23	2.0	2.7	17.496	13.455	2.916
	24	2.0	2.7	17.496	13.41	2.916

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NOTE: VOLUMES ARE APPROXIMATE ONLY

2	RETICULATION REMOVED FROM TITLE BLOCK	N.M.	P.A.T.	P.A.T.	31.01.10	
1	STEEL POLE CHANGED TO STEEL/CONCRETE POLE	N.M.	B.HILL	B.HILL	05.08.08	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

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AUTH: A BEKKER

DATE: NOV 2005

CHKD: S LE ROUX

DATE: NOV 2005

DRAWN: B MOICHELA

DATE: OCT 2005

DISTRIBUTION TECHNOLOGY
SUB-TRANSMISSION LINES
MONOPOLE STAYED STRAIN STRUCTURE
0-90 DEGREES FOUNDATION DETAILS-50KPA

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5	5	2