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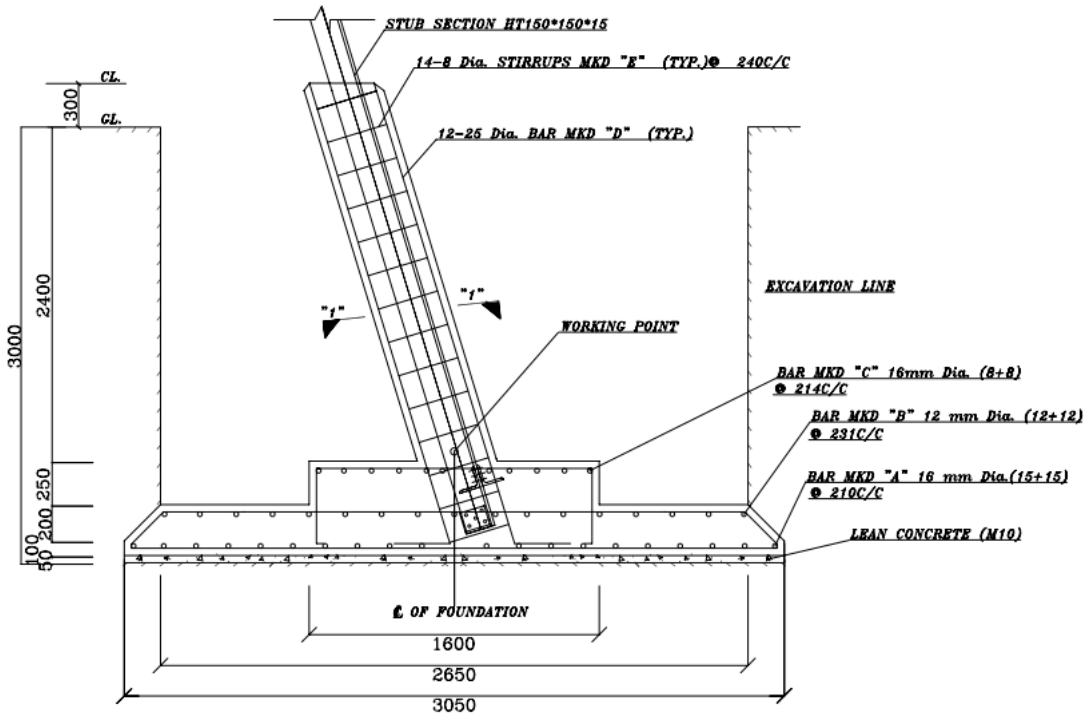
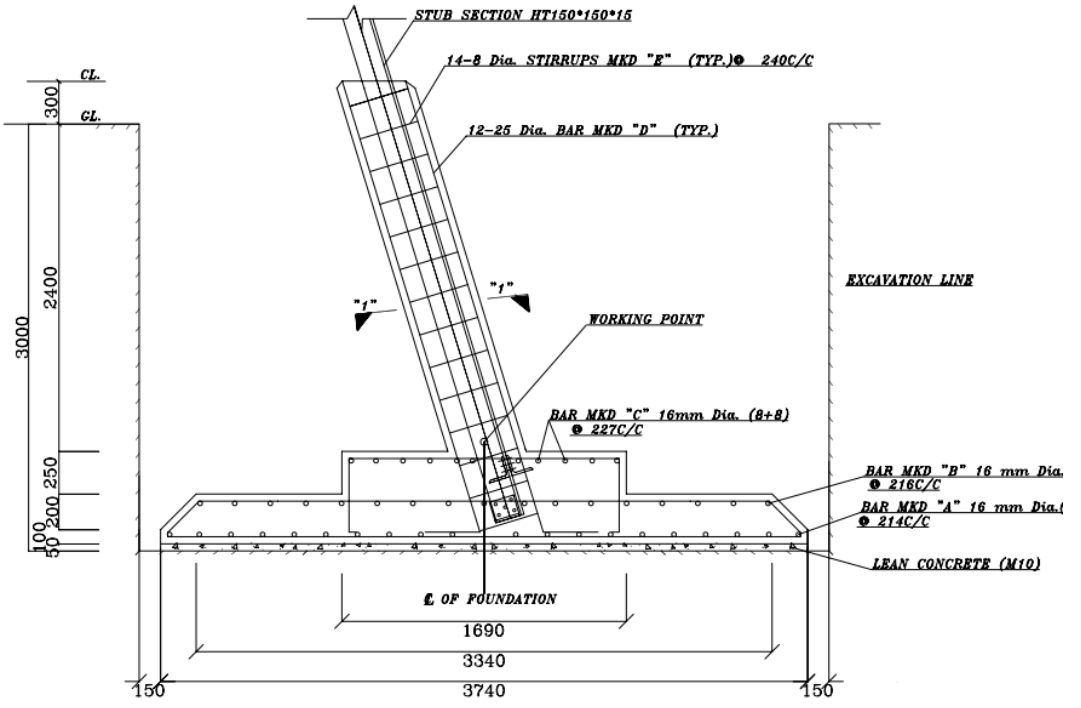
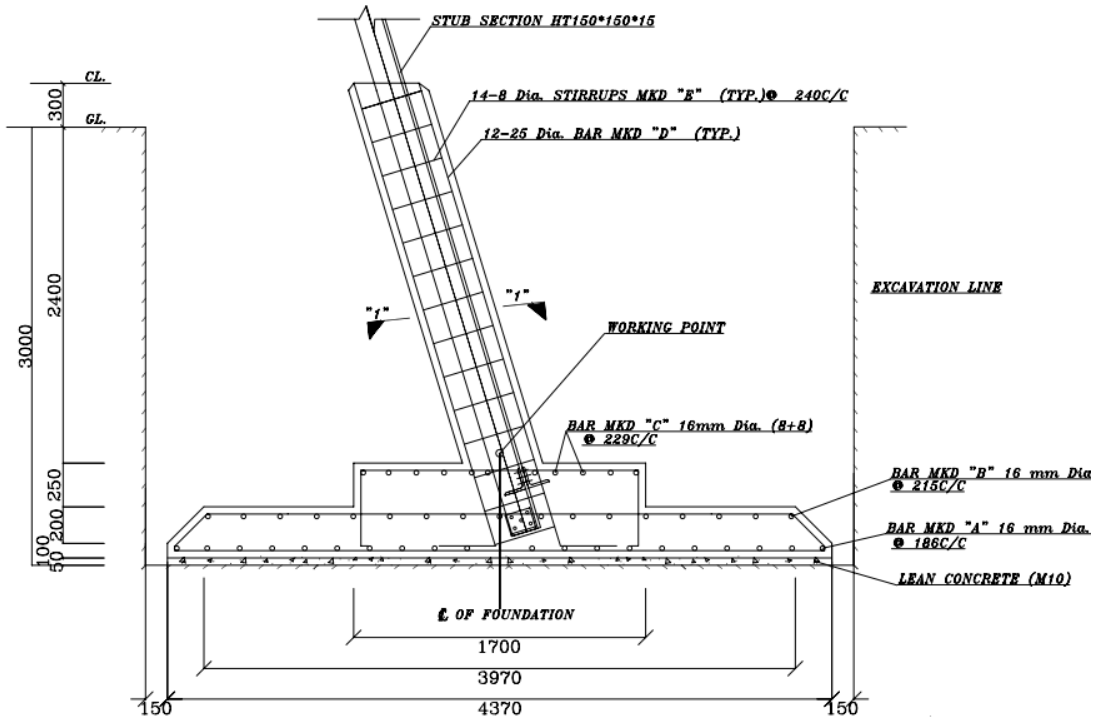
APPENDIX 01 – TYPE DRAWINGS ANALYZED TOWER FOUNDATIONS



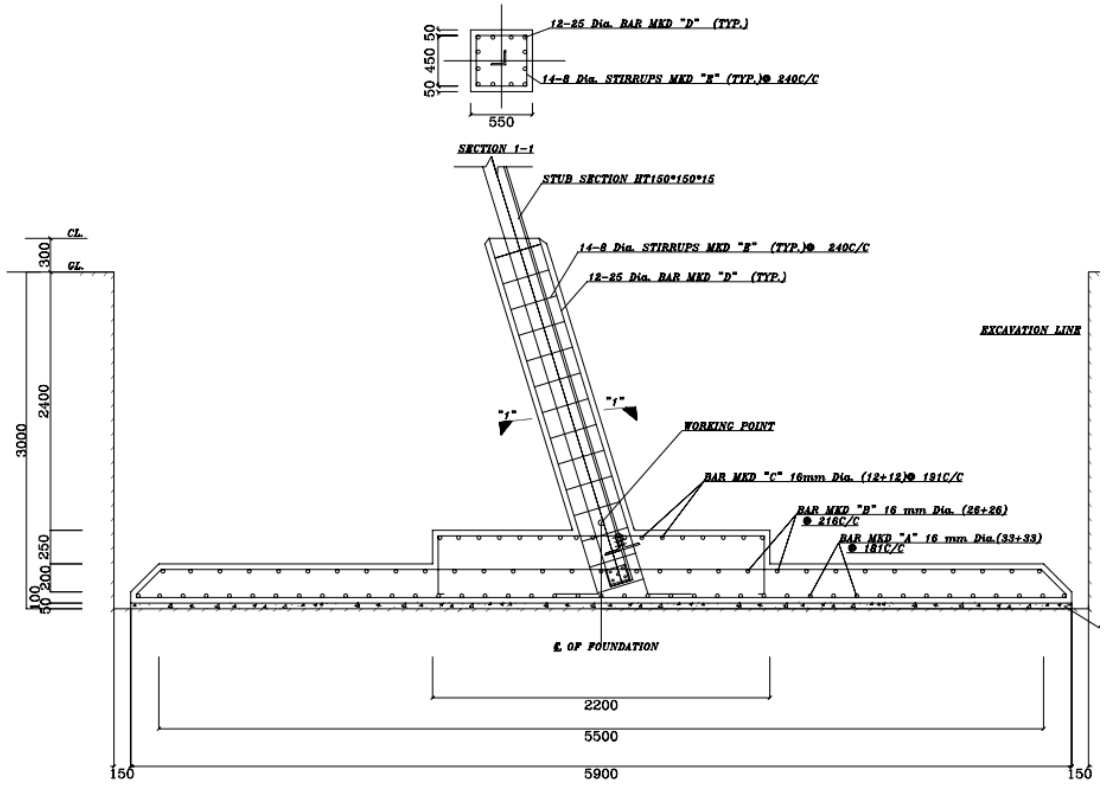
TD1 – S2 foundation



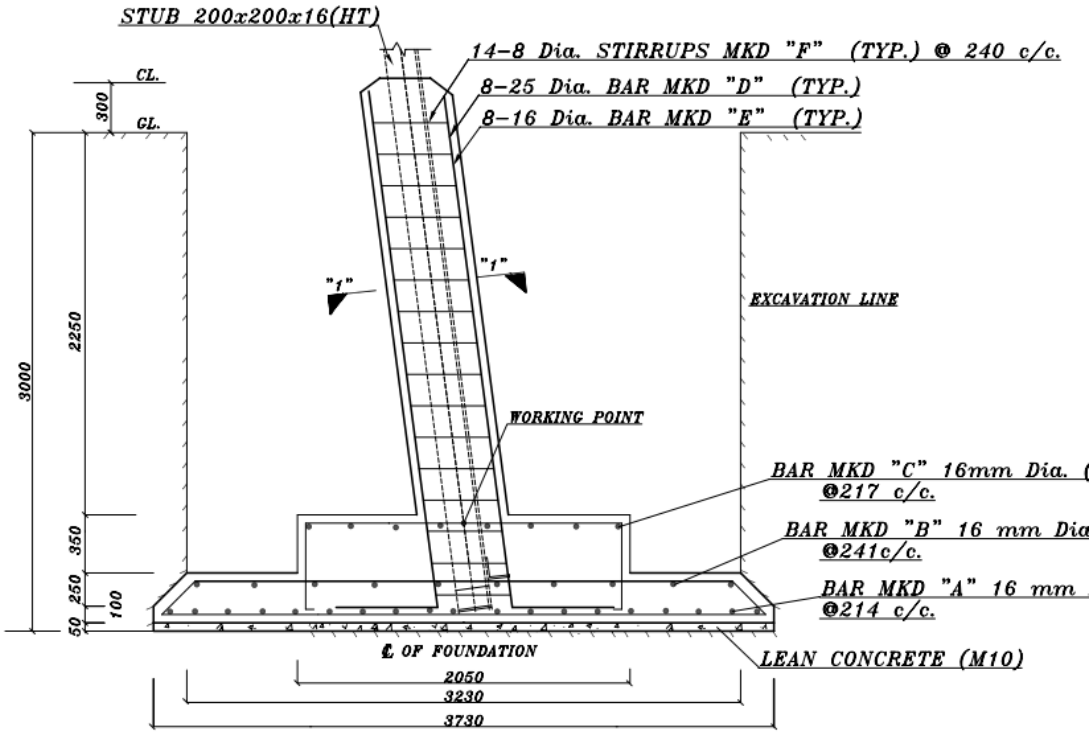
TD1 – S3 foundation



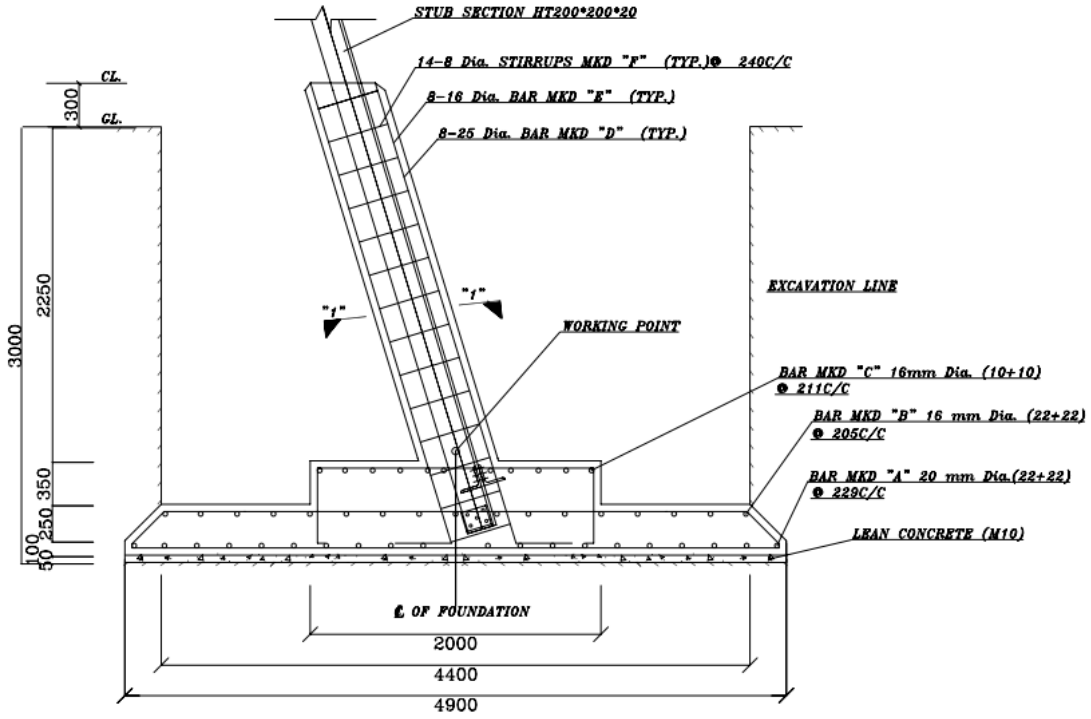
TD1 – S4 foundation



TD1 – S5 foundation



TD3-S2 foundation

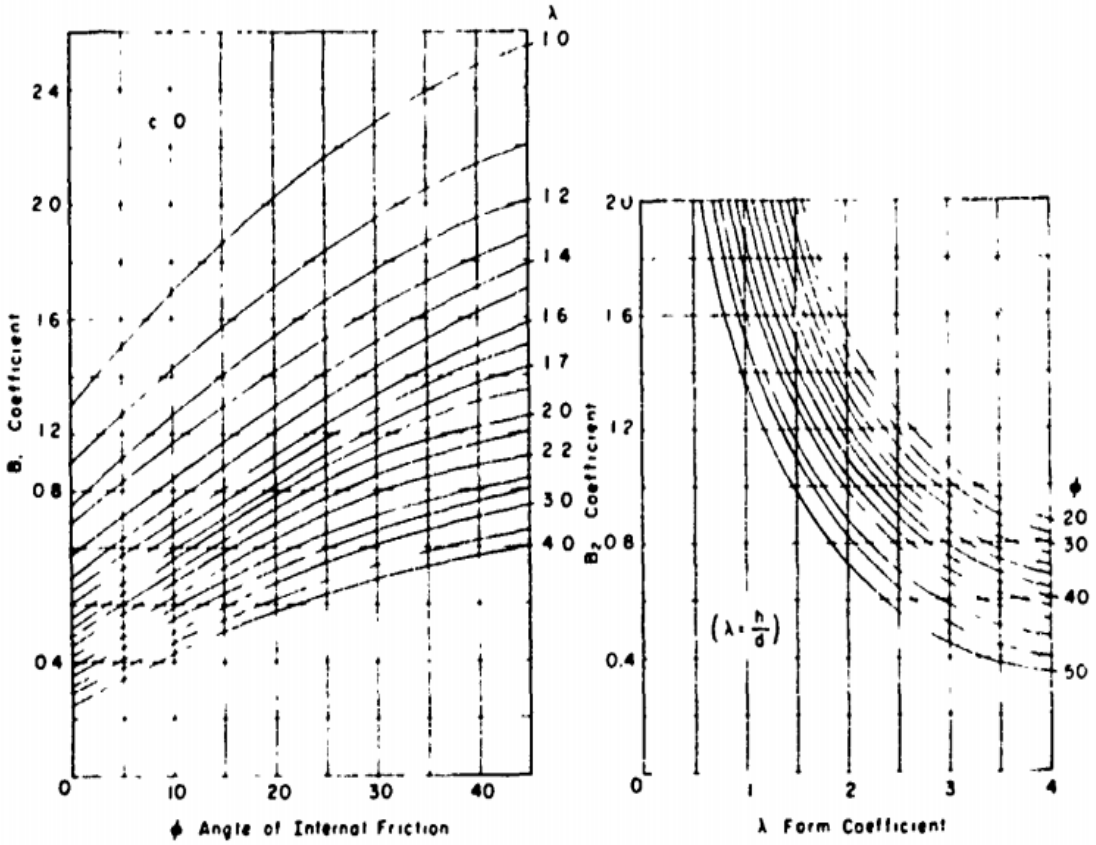


TD6 – S2 foundation

APPENDIX 02 – VALUE OF K_d FOR DEWBERRY METHOD

Class of Soil	K_d
Hardpan	1.2
Crumbly, damp	1.0
Firm, moist	0.8
Plastic, wet	0.7
Loose, dry	0.5

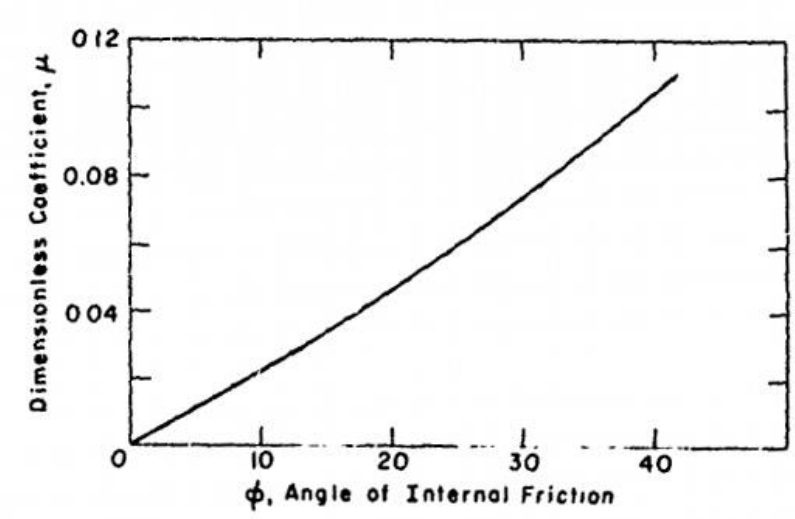
APPENDIX 03 – GRAPHS TO DETERMINE BALLA'S COEFFICIENTS B_1 AND B_2



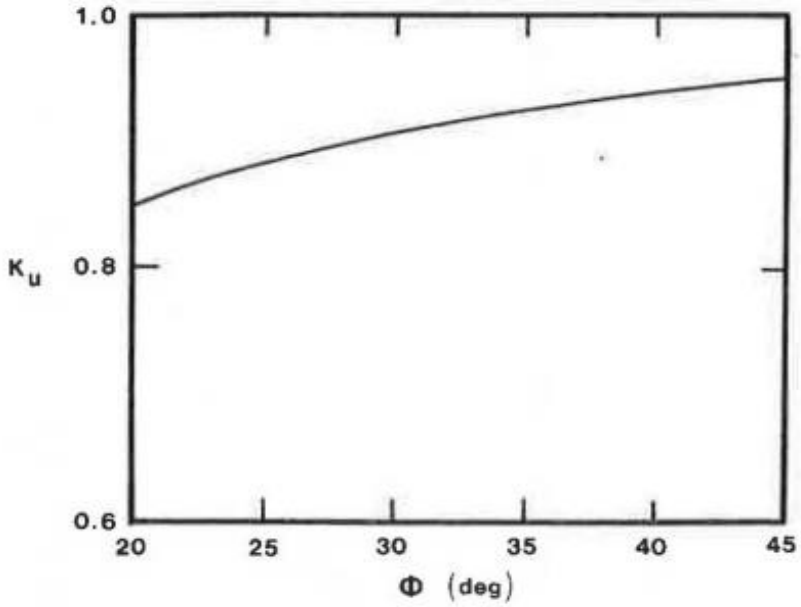
APPENDIX 04 – PULLOUT STRENGTH FACTORS K_1, K_2, K_3 AND K_4 FOR MATSUO AND TAGAWA METHOD

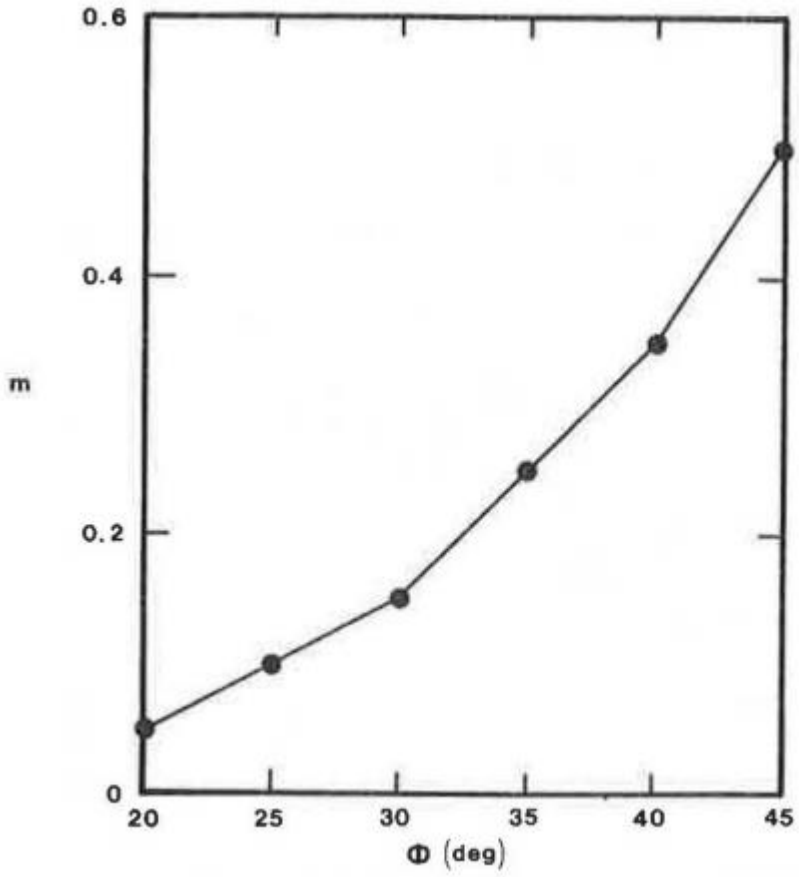
(h_2/R) limit	K_1	K_2	K_3	K_4
$0.5 \leq \frac{h_2}{R} \leq 1$	$0.056\phi + 4.0$	$0.007\phi + 1.0$	$0.027\phi + 7.653$	$0.002\phi + 1.052$
$1 \leq \frac{h_2}{R} \leq 3$	$0.056\phi + 4.0$	$0.016\phi + 1.1$	$0.027\phi + 7.653$	$0.004\phi + 1.103$
$3 \leq \frac{h_2}{R} \leq 10$	$0.597\phi + 10.4$	$0.023\phi + 1.3$	$0.013\phi + 6.110$	$0.005\phi + 1.334$

APPENDIX 05 – DIMENSIONLESS FUNCTION μ OF MARIUPOL'SKII METHOD



APPENDIX 06 – SHAPE FACTOR COEFFICIENT AND UPLIFT COEFFICIENT FOR MAYERCHOF AND ADAMS METHOD





APPENDIX 07 – VALUE FOR FACTOR f_c AND K_0 FOR MORS METHOD

Class of Soil	f_c	
	Smooth surface	**Rough Surface**
Moist clay and loam	0.2	0.3
Dry sand	0.6	0.7
Wet sand	0.3	0.5
Gravel	0.4	0.5

K_0 = 0.35 – 0.60 for sand and gravel

K_0 = 0.45 – 0.70 for normally consolidated clay and silt

K_0 = 0.80 – 1.36 for over-consolidated clays

APPENDIX 08 – VALUE FOR FACTOR *j* FOR MORS METHOD

$$j = 13 \; for \; anchor \; grillage \; in \; compacted \; backfill$$

$$j = 10 \; for \; formed \; concrete \; footings \; without \; base \; in \; gravel$$

$$j = 5 \; for \; formed \; concrete \; footings \; with \; base \; in \; gravel$$

$$j = 1 \; for \; concrete \; footings \; poured \; against \; stiff \; clay$$

APPENDIX 08 – FACTORS $M_{c0}, M_{\varphi 0}$ AND $M_{\gamma 0}$ FOR BIAREZ AND BARRAUD METHOD