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PROBLEMS A AND B

SLOPE STABILITY ANALYSIS - COMPUTATIONS SHEET 1 OF 5

NAME OF SLIP BOVILLS MAP REF 4497 54411

ANALYSIS BY A.T.M.
DATE 12.7.1984
CHECKED BY

INITIAL INPUT			SHAPE *					
STORE	ITEM		STORE	ITEM		STORE	ITEM	
00	X L.H.S.	2·5 m	20	Y_1	6·5	31	Y_{12}	
01	Y L.H.S.	5 m	21	Y_2	9	32	Y_{13}	
02	X R.H.S.	40 m	22	Y_3	10	33	Y_{14}	
03	Y R.H.S.	14 m	23	Y_4	11·5	34	Y_{15}	
04	SLICES	5	24	Y_5	13·5	35	Y_{16}	
06	GAMMA	20 kN/m³	25	Y_6		36	Y_{17}	
07	C	3 kPa	26	Y_7		37	Y_{18}	
08	PHI	? degrees	27	Y_8		38	Y_{19}	
09	ru	0·44	28	Y_9		39	Y_{20}	
10	YCIRCLE	50 m	29	Y_{10}				
11	F_1	1	30	Y_{11}				

* Only enter Nº specified

CALCULATIONS

PROBLEM 'A' (MEAN)

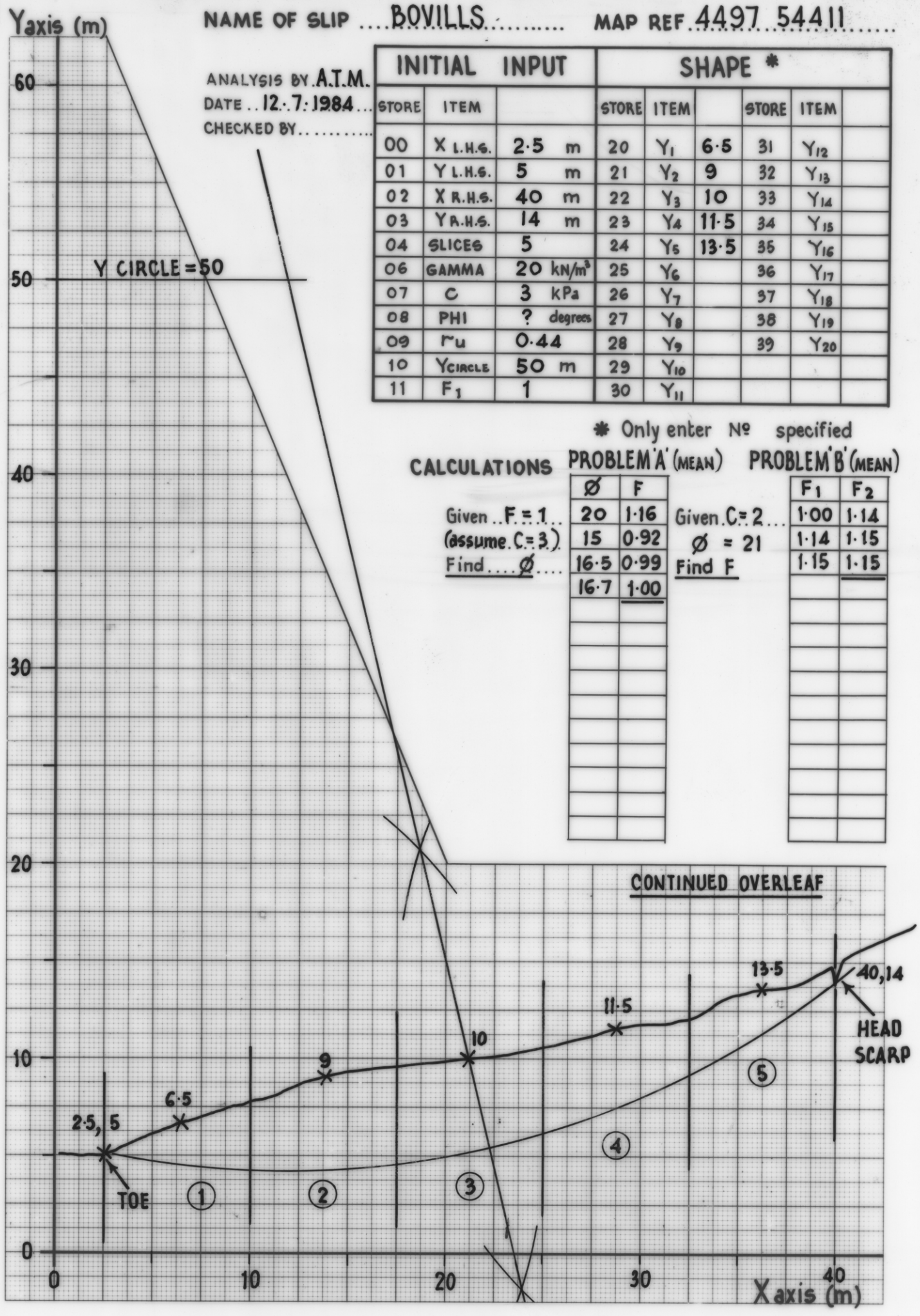
Given F = 1
(assume C = 3)
Find Ø

Ø	F
20	1·16
15	0·92
16·5	0·99
16·7	1·00

PROBLEM 'B' (MEAN)

Given C = 2
Ø = 21
Find F

F_1	F_2
1·00	1·14
1·14	1·15
1·15	1·15



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