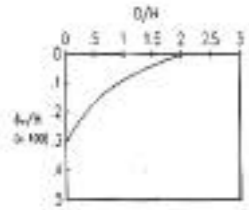
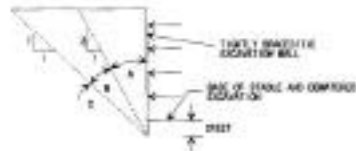




[ 3] O Rourke (1976)



[ 4] NAVFAC D.M 7-2



목적 A : 이 양에 대해 기초는 일반적으로 안정성을 검토한다.  
 목적 B : 이 양에 대해 기초는 일반적으로 양면 수직 조약에 의해 안전성을 검토한다.  
 목적 C : 양면 안전성이 안정성에 대한 조약에 의해 검토된 경우 양면 안전성에 대한 검토를 위한 것이다.

Caspe(1966)

Harrison Kane(1966) Caspe

가

가

가

가 Caspe

= h

$$= [ / (1 - ) ] h$$

Bowles(1984)

Peck(1943)

Caspe Kane Bowles

Fry et al.(1983)

Fry(1983)

Fry

Kyrou

Caspe

가

가

2

가

“

” 가

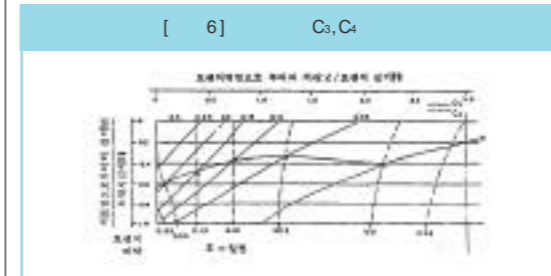
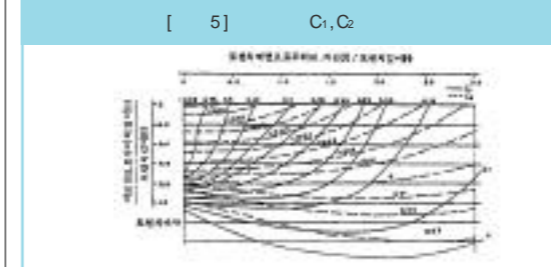
(

).

$$H = \frac{H^2}{E} (C_1 K_0 + C_2), \quad v = \frac{H^2}{E} (C_3 K_0 + C_4)$$

H :  
 E :  
 C<sub>1</sub> ~ C<sub>4</sub> :

[ 2] E K <sub>0</sub>		
SOIL TYPE	E(MN/m <sup>2</sup> )	K <sub>0</sub>
	1 ~ 6	0.65 ~ 0.9
Firm Clay	4 ~ 15	0.75 ~ 1.5
Stiff Clay	10 ~ 25	1 ~ 3
High Stiff Clay	20 ~ 50	1 ~ 3
Loose	10 ~ 25	0.5 ~ 1.0
Medium	20 ~ 60	0.5 ~ 1.0
Dense ~ Very Dense	50 ~ 100	0.5 ~ 1.0



Bauer

( , ) ( ) ,

가 .

$$= \frac{2 - (2D)^{1/2}}{100}$$

S = H

$$B = 1.5H, \tan(45 - \frac{\phi}{2})$$

$$S = S (\frac{B}{B_0})^2 f_1 f_2$$

, :

S : B :

H : H, :

f<sub>1</sub>, f<sub>2</sub>:

[ 3]								
	f <sub>1</sub>					f <sub>2</sub>		
	0.80	0.9	1.00	1.10		1.00	1.02	1.05

Mana & Clough(1981, 1989)

Mana & Clough

< >

, 1981

가

~

1981

0.6 ~ 1.0

$$h_{v,m} = h_{h,m} \cdot M \cdot W \cdot s \cdot D \cdot B$$

$$h_{v,m} = 0.6 \sim 1.0 \cdot h_{h,m}$$

$h_{h,m}$  :

$h_{h,m}$  :

$h_{h,m}$  :

$M$  :

$W$  :

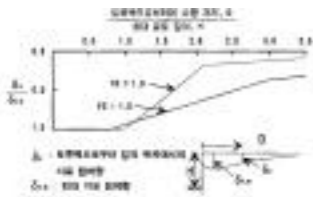
$s$  :

$p$  :

$D$  :

$B$  :

[ 7 ]



< >

“

( h,m )

H

0.5%H

( v,m )

가 Goldberg et al.(1976)

· Clough et al. ( h,m )

( v,m )

3

Mana & Clough

[ 4 ]

h,m, v,m	0.005H	2.0m	가
h,m, v,m	0.005H	5.0m	가
h,m, v,m	0.005H	가	가
h,m, v,m	0.005H	가	(Piping)

6 ]

[ 5 ] ( h,m )

		h,m	
	+	1.0%H	Peck(1967)
(till)		0.2%H	( )
(stiff fissured clays)	-	0.5%H,	NAVFAC DM-7.2(1982)
	-	0.5%H ~ 2.0%H	
		0.2%H( 0.5%H )	Clough & O'Rourke(1990)
Silty Sand, Silty Clay	+ Shrut	0.2%H ~ 0.5%H	Chang Yu-Ou (1993)
		0.2%H	(1993)

( v,m, h,m, H, D )

[ 6 ]	( h,m )	( D1 )
	+	0.5%H
가	+	0.3%H
	Top-Down	0.3%H
	-	>>h,m
	-	<0.5 ~ 1.0h,m
	Strut	<0.5 ~ 1.0h,m
		0.3%H
		0.3%H
Silty Sand, Silty Clay	+ Strut	<0.5 ~ 0.7h,m

( v,m, h,m, H, D )

( 0.2 ~ 1.0 ) %

2 ~ 3

( 0.3 ~ 0.5 ) %

2 ~ 3

( 0.3 ~ 0.5 ) %

가 가

1. (1992).

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3. (1996).

4. ( ) (1996).

( )

5. ( ) (1988).

pp.319 ~ 397

6. (1985).

7. ( ) (1995).

8. (1996).

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pp.65 ~ 86

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