

가
1983 6

Earth Shel

Building

Infra-Structure

가

가

Infra-Structure

가

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가

가

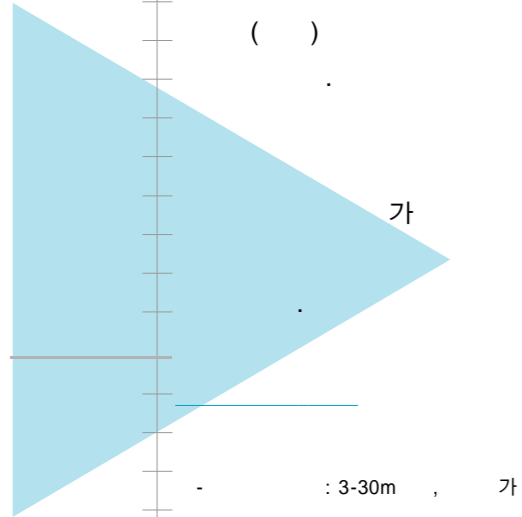
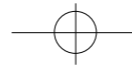
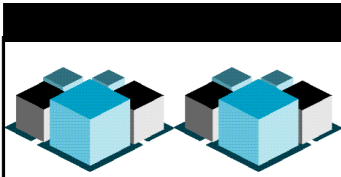
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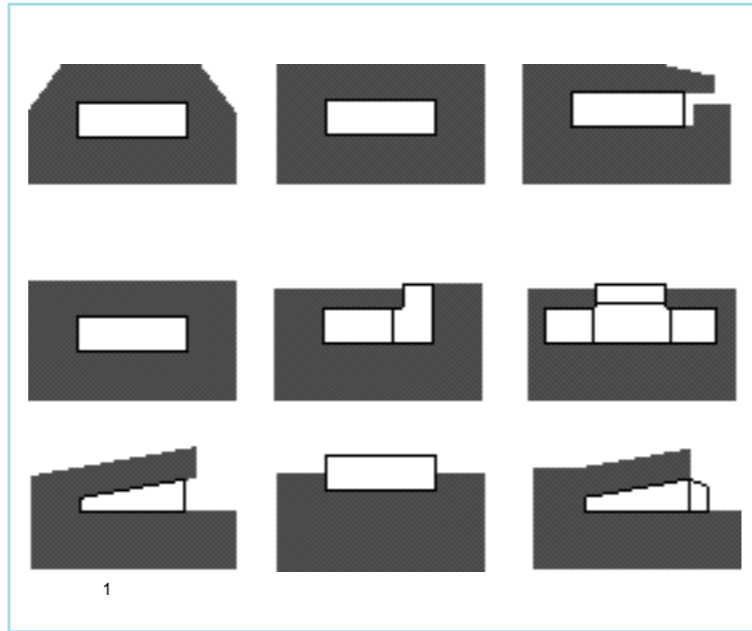
가

: 3-30m , 가

: 30-300m ,

: 300-3000m ,

가



1

Live Load

Dewatering (Pumping :)

300m

Test Wall

(Drop Panel)

L. O. S (Level of Service)

O. S) 가 가

AASHTO(American Associa
State Highway and Transpor
Official) TRRL (Transpo
Road Research Laboratory)

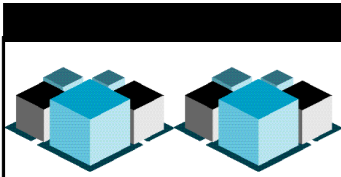
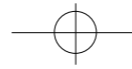
Glass (Elev 가)

(24

L. O. S				
A				-
B				-
C				-
D				-
E				-
F				가

5m (F) , 10m Round Ramp E/F

ITEM	(L. O. S)			
	D	C	B	A
	7.3m	9.1m	10.9m	12.8m
	0.48m	0.6m	0.8m	0.9m
	6%	5%	4%	3%
	16%	14%	12%	10%
	2.13m	2.44m	2.74m	3.05m



	NPA	IES
	40	50
	20	-
	20	10 / 15 / 20
	6	5
	2	-
	-	10
	2	3.6 / 2.4 / 0.8

NPA : National Parking Association (England)
 IES : Illuminating Engineering Society Sub Committee on Off-Roadway Facilities

가
 50%,
 CCTV 100%, 85cm 70lux
 100% (6)
 DC
 100lux,
 50lux, 300 ~ 200lux 가
 가
 300 ~ 700lux :
 150 ~ 300lux : 가
 70 ~ 150lux :
 30 ~ 70lux :

가

가

가

가

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가

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가

8

가 50ppm

50ppm

가

: 50ppm
: 100ppm)

fan

: "CCTV가

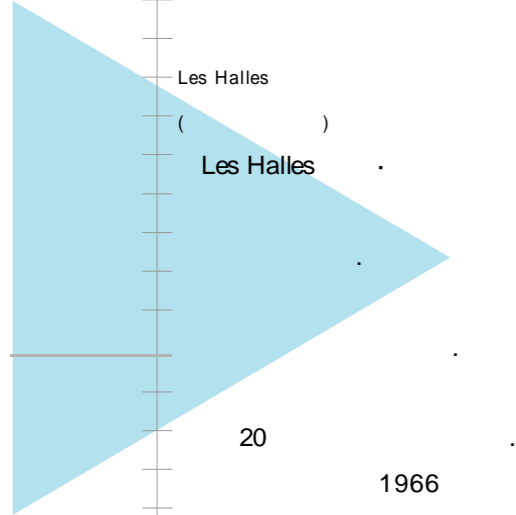
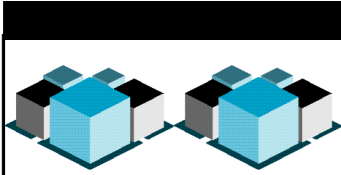
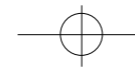
가
가 가

가

가

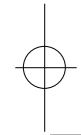
가

	0.15mg/m ³	24	150g/m ³
		1	300g/m ³
			400g/m ³
		24	850g/m ³
			150g/m ³
CO ₂	1000ppm	-	-
	18 - 27	-	-
	40% - 70%RH	-	-
	0.5m/sec	-	-



1983 17 1500

B5	
B4	
B3	
B2	METRO
B1	FORUM



() Sunken

가

-2 (10~15

)

(4230)

CCTV

()

-6

가

가

가

Decking
Paving Open Space

Eaton Center (Toronto)

-	()
-	가
-	- 1000 가
-	
-	Mall 1 3
-	
-	, 1970
-	Path
-	Gas

- / Bus

- Atrium ()

- 가

- Open

- 가

- 가 All Air

- Air Curtain

