

시험 성적서

PEC

(주)프라임엔지니어링
주소: 서울시 강남구 도곡동 450-3 동촌빌딩
전화: 02-573-4818 팩스: 02-573-4819

성적서번호: 13-047
페이지 (1) / (총 1)

PEC

1. 의뢰자

- 기관명 : (주)에이스지오
- 주소 : 서울시 서초구 양재2동 264-12
- 의뢰일자 : 2013년 03월 15일

2. 시험성적서의 용도 : 보고서

3. 시료명 : 토사 시료, 암석 시료

4. 시험기간 : 2013년 3월 15일 부터 2013년 3월 25일 까지

5. 시험방법 : KSF-2302, KSF-2303, KSF-2304, KSF-2306, KSF-2308, KSF-2309, KSF-2314, KSF-2316, KSF-2343, KSF-2346

6. 시험환경

온도(13 ~ 18) °C , 상대습도 : (30 ~ 50) % R.H.

- 시험결과 -

시험항목	단위	시험결과값	비고
별첨	SI	별첨	

확인	시험자	기술책임자
	성명 : 신동파 (서명)	성명 : 김성현 (서명)

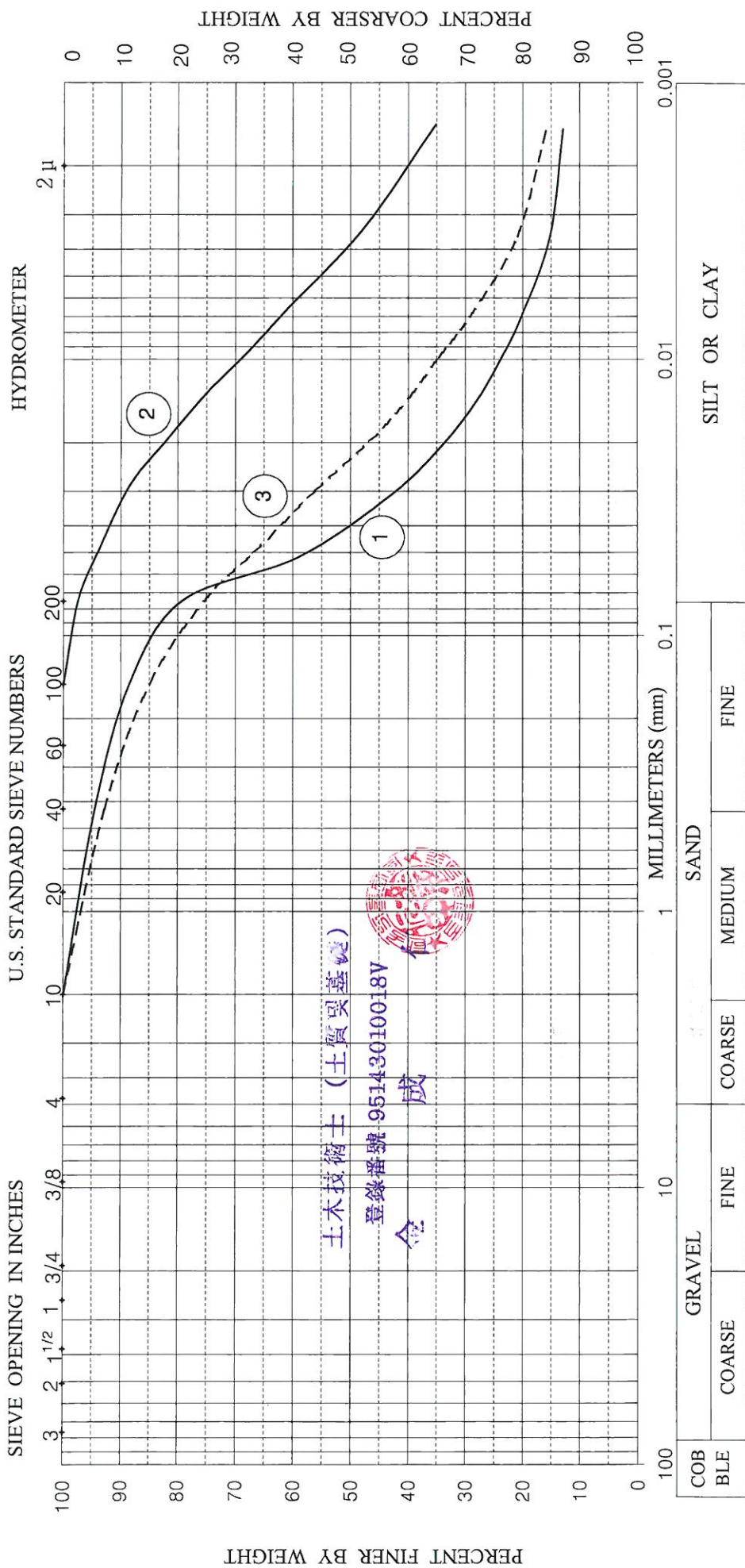
※ 본 성적서의 시험결과는 고객이 제시한 시료에 대한 결과임.

2013 . 03 . 25 .

(주)프라임엔지니어링 대표이사 (인)

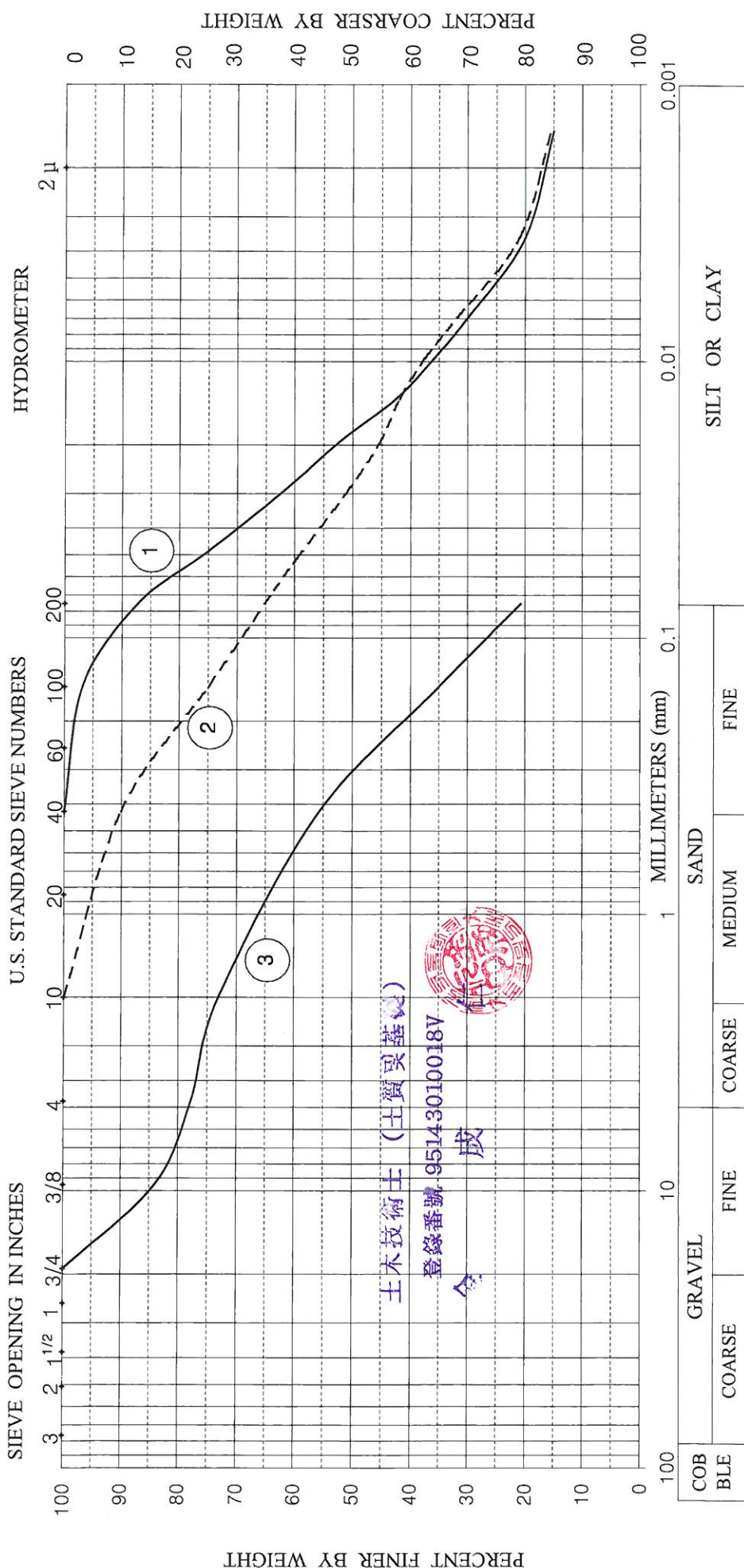


GRADATION CURVES



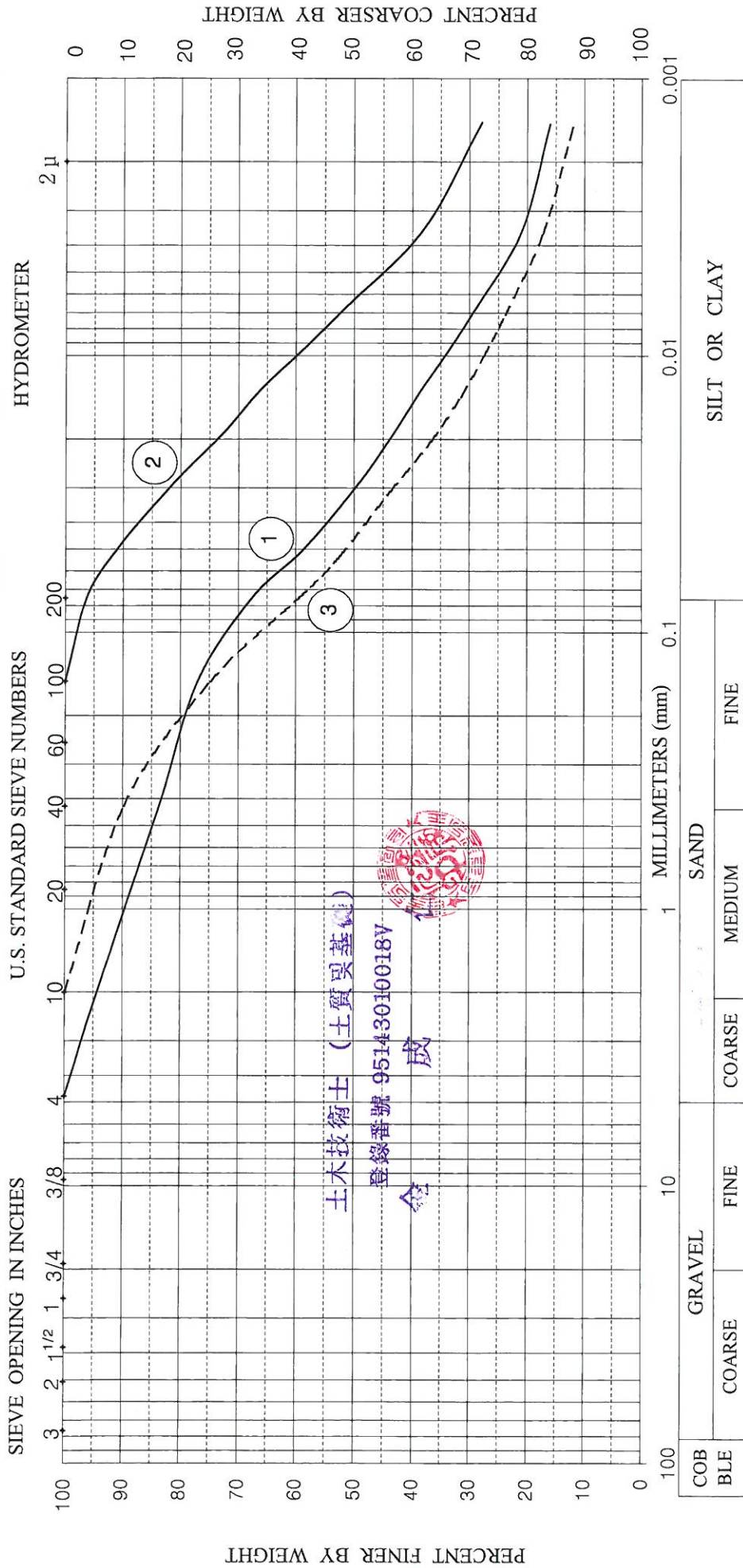
Sample No.	Depth (m)	Classification	Wnat (%)	ρ_s^3 (g/cm^3)	LL(%)	PI	시험관리번호 정밀안전진단 및 실시설계 기술영역
1 : BH-1	12.00	CL ; Lean Clay with Sand	30.3	2.681	37.9	15.7	
2 : BH-1	23.0~23.8	CH ; Fat Clay	56.4	2.689	82.4	55.0	
3 : BH-1	37.0~37.8	CL ; Lean Clay with Sand	33.8	2.677	40.0	17.6	
							Test Date : 2013. 3. .

GRADATION CURVES



Sample No.	Depth (m)	Classification	W _{nat} (%)	ρ_s (g/cm ³)	LL (%)	PI	Test Date
1 : BH-2	4.0~4.8	CL ; Lean Clay	38.1	2.679	38.6	16.0	Sample No. : BH - 2 Test Date : 2013. 3. .
2 : BH-2	29.0~29.8	CL ; Sandy Lean Clay	30.2	2.674	39.1	17.3	
3 : BH-2	40.00	SC ; Clayey Sand with Gravel	16.1	2.668	36.5	14.4	

GRADATION CURVES

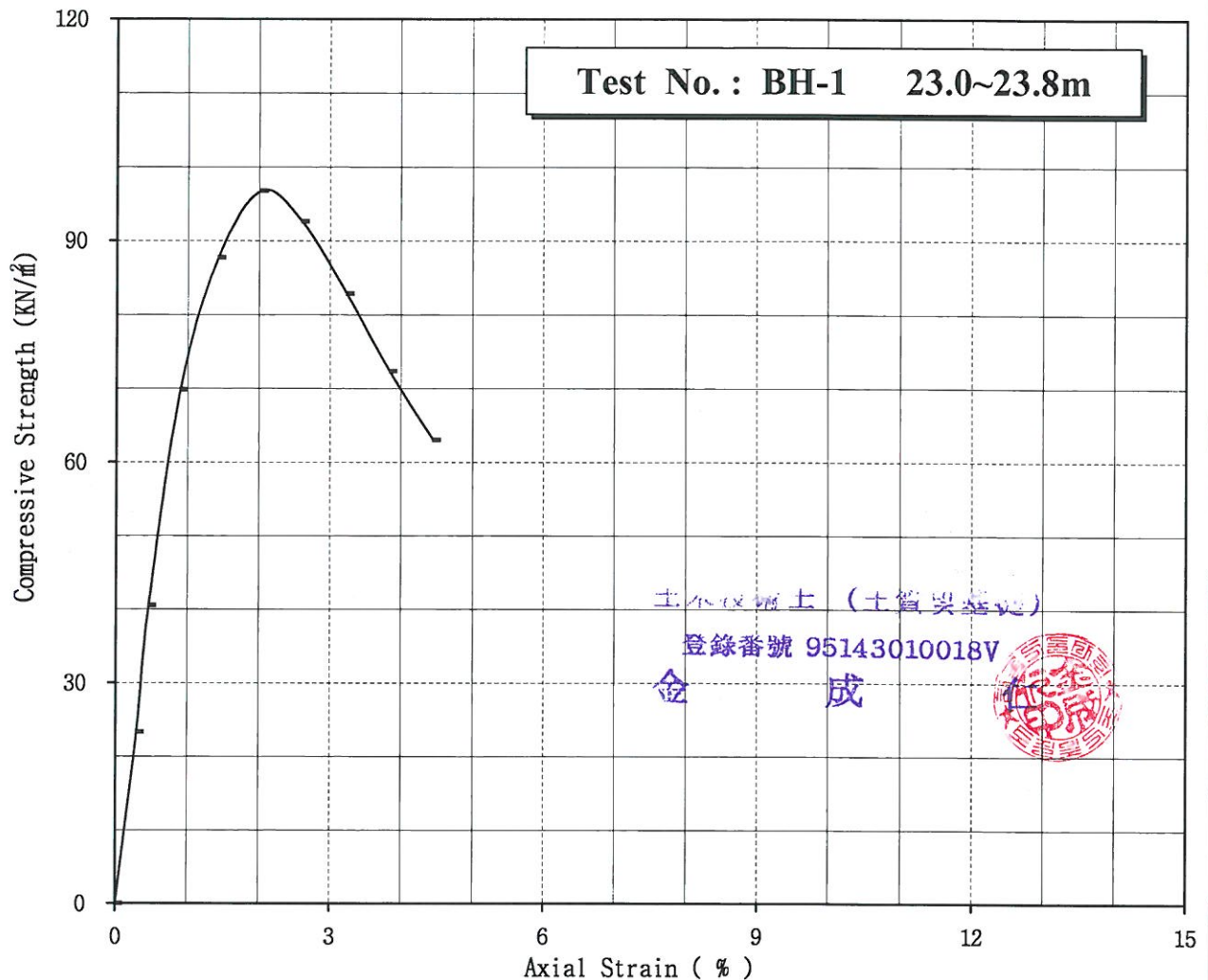


Sample No.	Depth (m)	Classification	Wnat (%)	ρ_s (g/cm ³)	LL(%)	PI	시험관리교 정밀안전진단 및 실시설계 기술용역
1 : BH-3	8.0~8.8	CL ; Sandy Lean Clay	32.5	2.683	40.8	18.2	Sample No. : BH - 3
2 : BH-3	24.5~25.3	CH ; Fat Clay	49.4	2.689	77.3	46.1	
3 : BH-3	34.00	CL ; Sandy Lean Clay	25.8	2.675	36.0	13.8	
							Test Date : 2013. 3. .

UNCONFINED COMPRESSION TEST

PROJECT : 섬안큰다리고 정밀안전진단 및 실시설계 기술용역

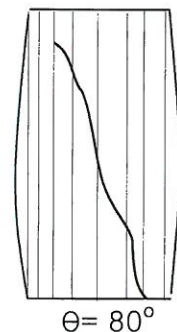
Test Date : 2013. 3.



LL :	82.4	Gs :	2.689
PI :	55.0	D ₁₀ :	

	Undisturbed
Water Content (%)	56.4
Dry Density (kN/m ³)	10.47
Void Ratio	1.516
Saturation (%)	100
Comp. Strength (kN/m ²)	96.76
Specimen Diameter (cm)	6.0
Specimen Height (cm)	13.0

Failure Sketch

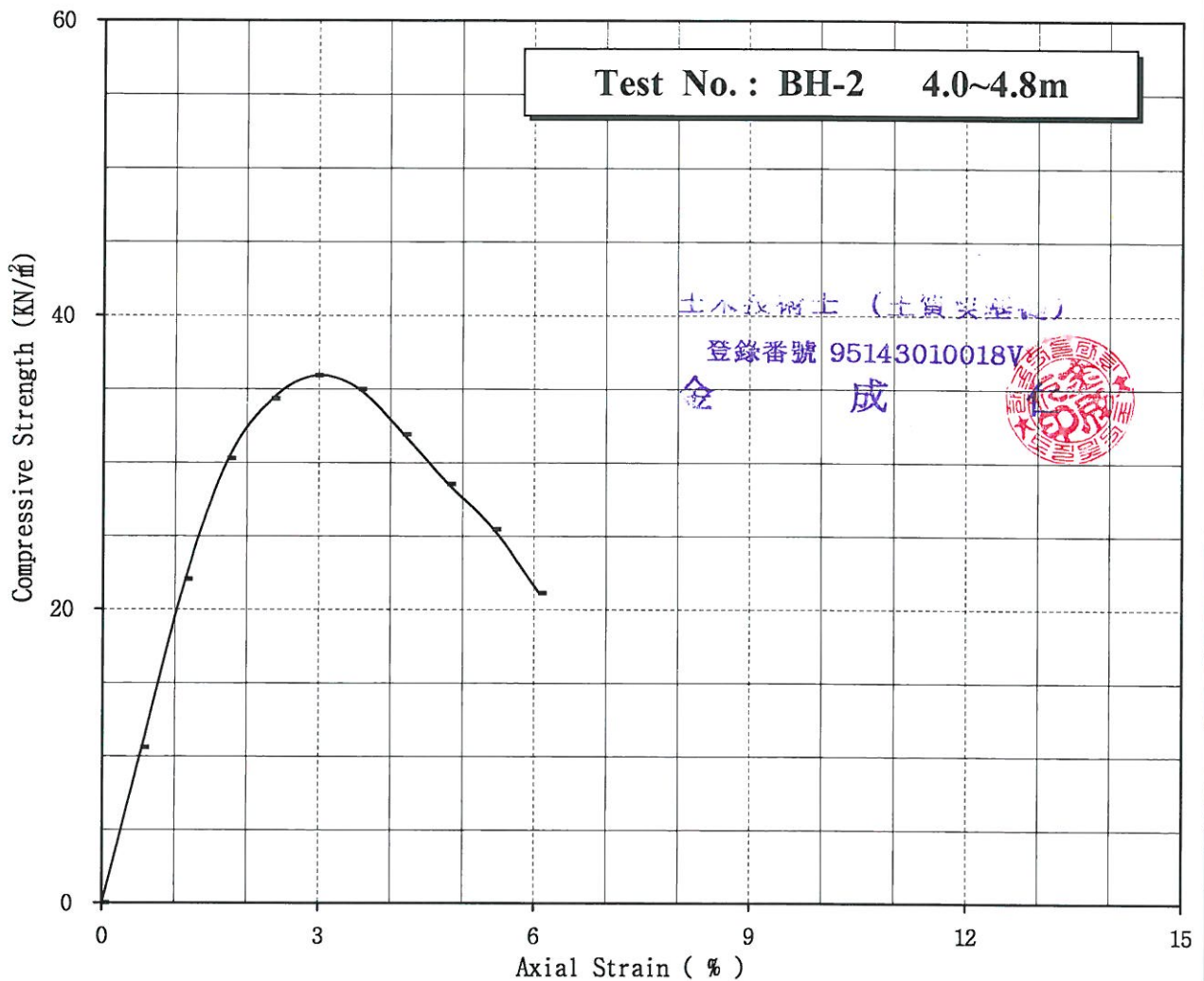


Remark : Medium Fat Clay (CH), 시료 양호
직경 6.0cm로 Trimming

UNCONFINED COMPRESSION TEST

PROJECT : 섬안큰다리고 정밀안전진단 및 실시설계 기술용역

Test Date : 2013. 3.



LL :	38.6	Gs :	2.679
PI :	16.0	D ₁₀ :	

	Undisturbed
Water Content (%)	38.1
Dry Density (kN/m ³)	13.19
Void Ratio	0.991
Saturation (%)	100
Comp. Strength (kN/m ²)	35.90
Specimen Diameter (cm)	6.0
Specimen Height (cm)	13.0

Failure Sketch

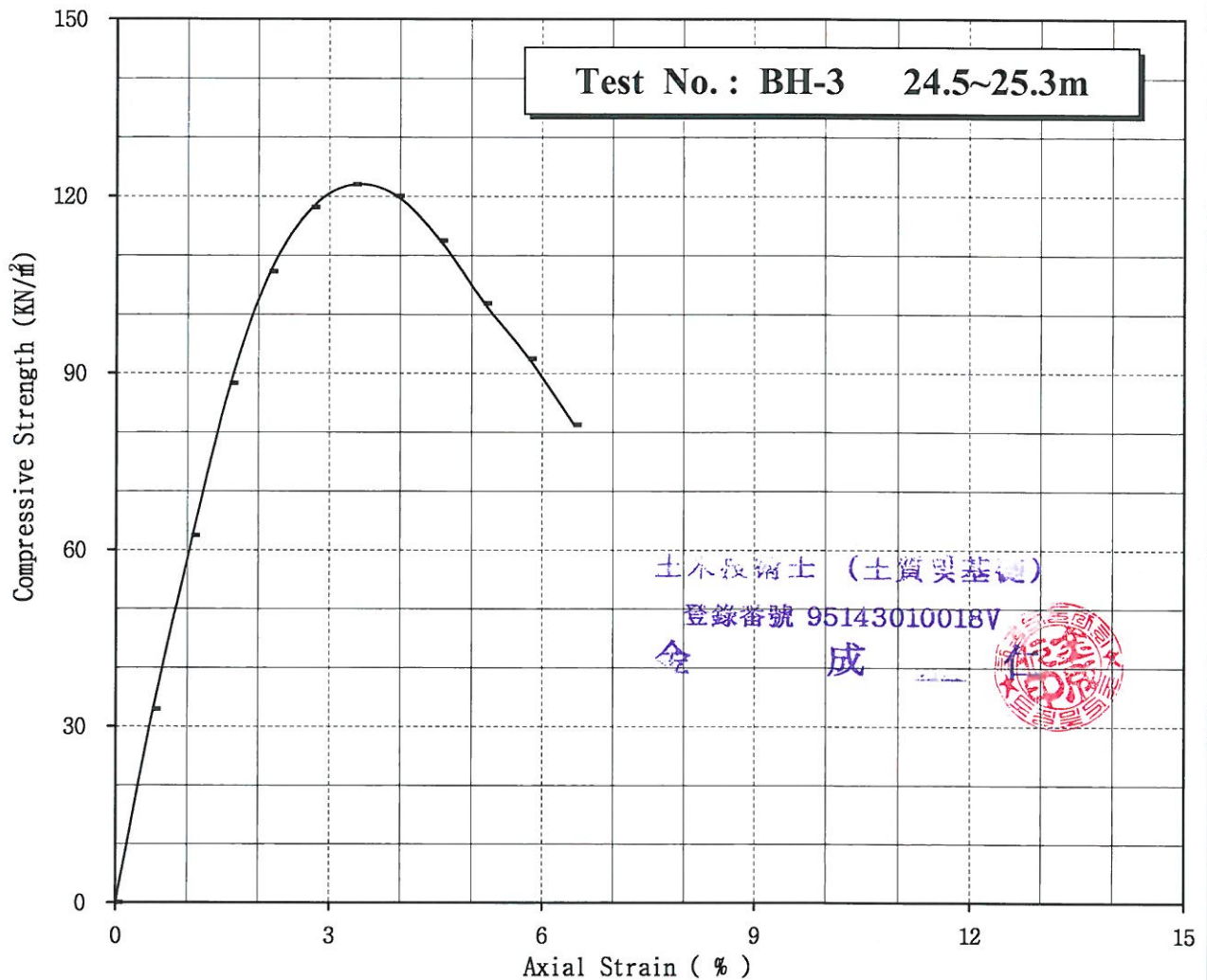


Remark : Soft Lean Clay (CL), 시료 양호
직경 6.0cm로 Trimming

UNCONFINED COMPRESSION TEST

PROJECT : 섬안큰다리고 정밀안전진단 및 실시설계 기술용역

Test Date : 2013. 3.



LL :	77.3	Gs :	2.689
PI :	46.1	D ₁₀ :	

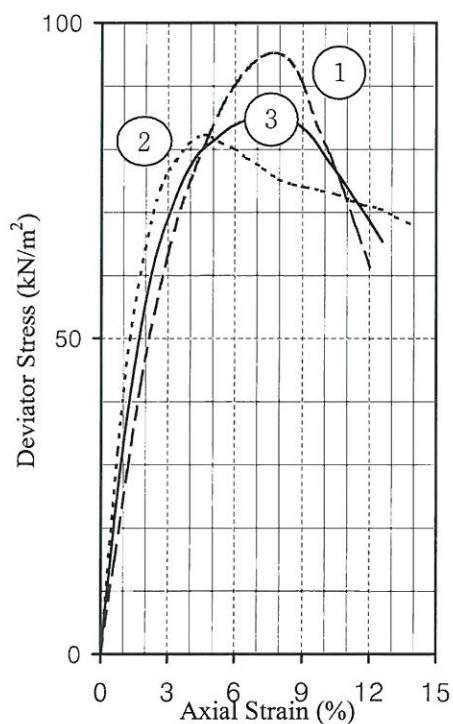
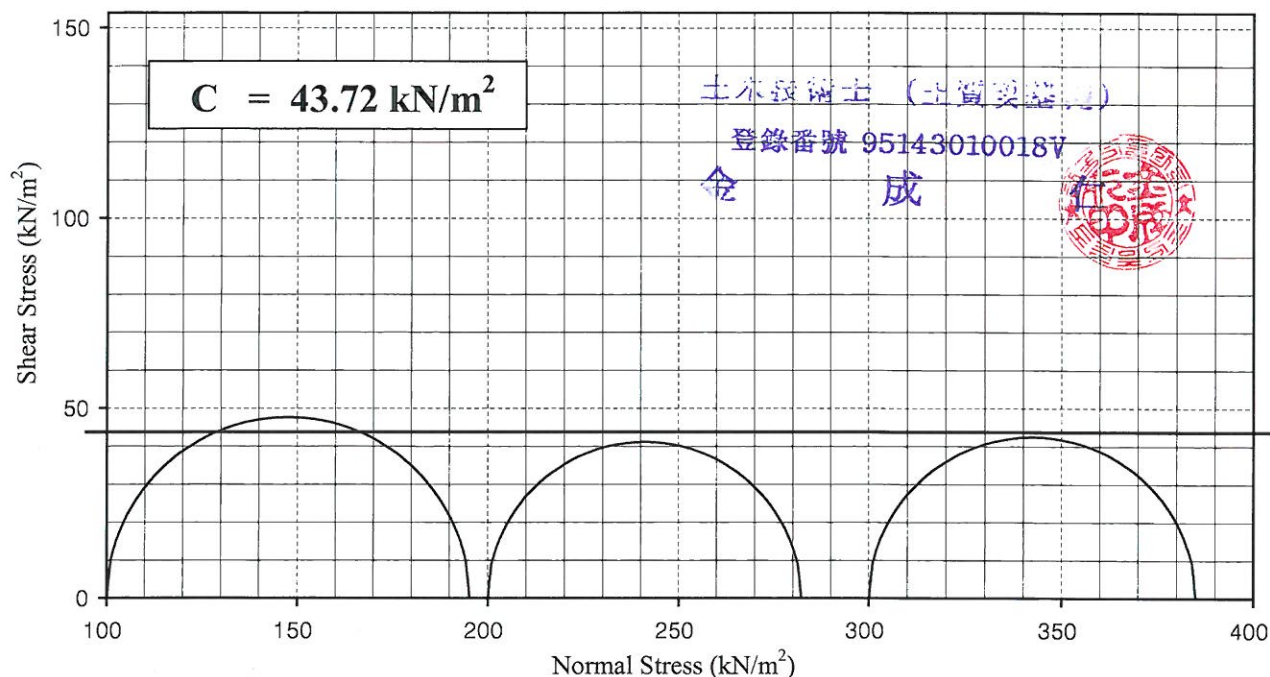
	Undisturbed
Water Content (%)	49.4
Dry Density (kN/m ³)	11.41
Void Ratio	1.309
Saturation (%)	100
Comp. Strength (kN/m ²)	121.94
Specimen Diameter (cm)	6.0
Specimen Height (cm)	13.0

Remark : Stiff Fat Clay (CH), 시료 양호
직경 6.0cm로 Trimming

Failure Sketch



TRIAxIAL COMPRESSION TEST



Strain Control Test

Test No.			1	2	3
Initial	Water Content %	WCo	59.8	61.6	60.7
	Dry Density kN/m^3	rd	10.11	9.94	10.02
	Saturation %	So	100	100	100
	Void Ratio	eo	1.607	1.651	1.629
Before shear	Water Content %	WCc			
	Dry Density kN/m^3	r dc			
	Saturation %	Sc			
	Void Ratio	ec			
Final Back Pressure(kN/m^2) Uo					
Minor Principal Stress(kN/m^2) σ_3			100	200	300
Max. Devi.Stress(kN/m^2), $(\sigma_1 - \sigma_3)_{\text{max}}$			95.24	82.21	84.88
Pore Pressure Stress (kN/m^2) uf					
Ult. Dev. Stress (kN/m^2)					
Initial Diameter (cm) D			5.0	5.0	5.0
Initial Height (cm) H			11.5	11.5	11.5

Description of Specimens : Medium Consistency Fat Clay (CH)

Order of samples : No. 2(lower part), 1(middle part), 3(upper).

Sample Condition : Well All Samples.

LL: 82.4 PL: 27.4 PI: 55.0 ps: 2.689

Test Date : 2013. 3. .

Type of specimen : UD

Type of Test : UU

Remarks :

Deformation rate : 1.0 % / Min. / H

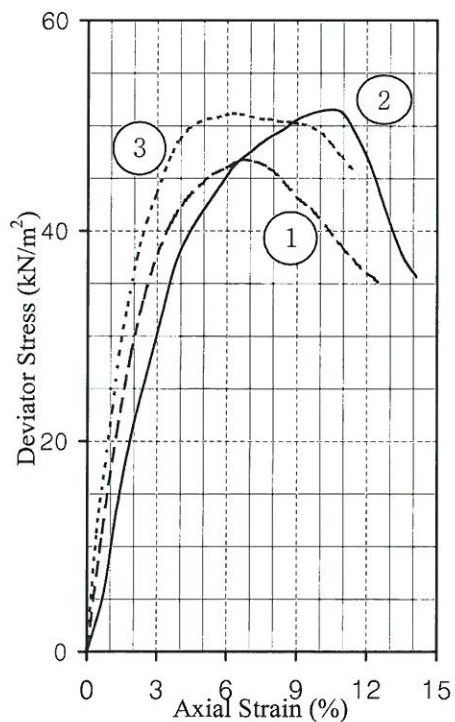
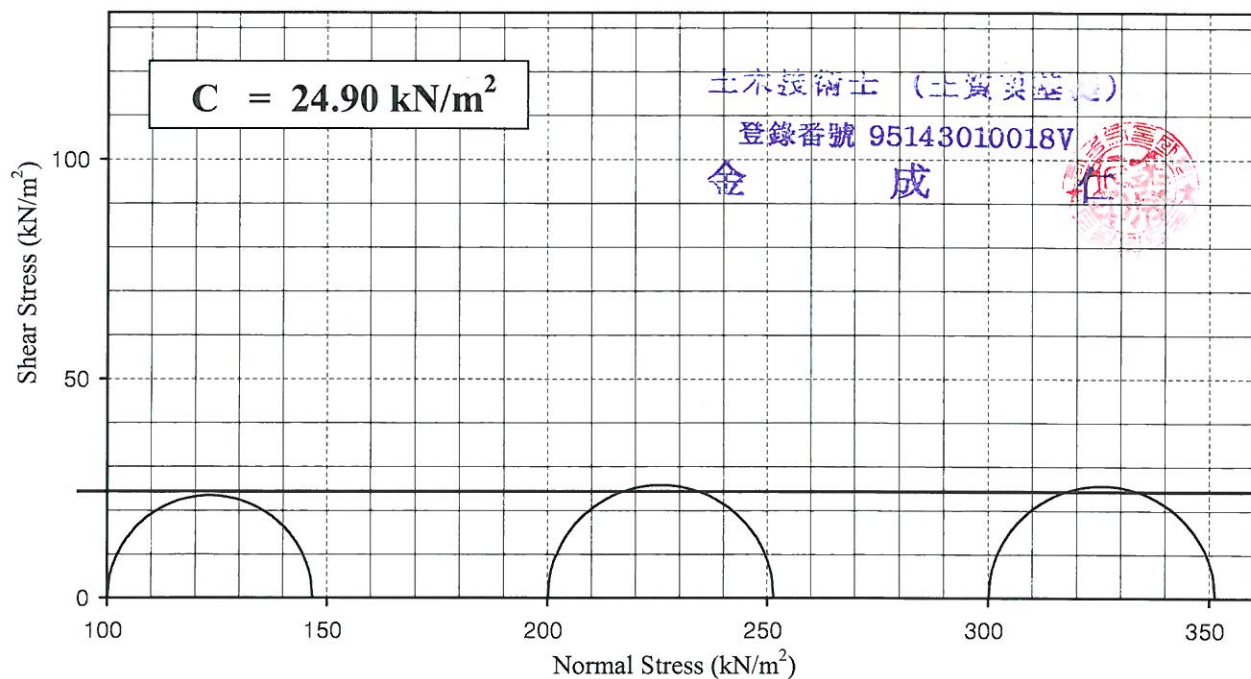
Consolidation time : -

섬안콘다리고 정밀안전진단 및 실시설계 기술용역

Bore Hole : BH-1

Depth : 23.0~23.8m

TRIAXIAL COMPRESSION TEST



Strain Control Test

Test No.			1	2	3
Initial	Water Content %	WCo	34.5	33.9	34.2
	Dry Density kN/m ³	rd	13.67	13.80	13.73
	Saturation %	So	100	100	100
	Void Ratio	eo	0.921	0.903	0.912
Before shear	Water Content %	WCc			
	Dry Density kN/m ³	r dc			
	Saturation %	Sc			
	Void Ratio	ec			
Final Back Pressure(kN/m ²) Uo					
Minor Principal Stress(kN/m ²) σ3			100	200	300
Max. Devi.Stress(kN/m ²),(σ1-σ3)max.			46.73	51.48	51.16
Pore Pressure Stress (kN/m ²) uf					
Ult. Dev. Stress (kN/m ²)					
Initial Diameter (cm) D			5.0	5.0	5.0
Initial Height (cm) H			11.5	11.5	11.5

Description of Specimens : Medium Consistency Lean Clay (CL)

Order of samples : No. 2(lower part), 1(middle part), 3(upper).

Sample Condition : Well All Samples.

LL: 38.6 PL: 22.6 PI: 16.0 ps: 2.679

Test Date : 2013. 3. .

Type of specimen : UD

Type of Test : UU

Remarks :

Deformation rate : 1.0 % / Min. / H

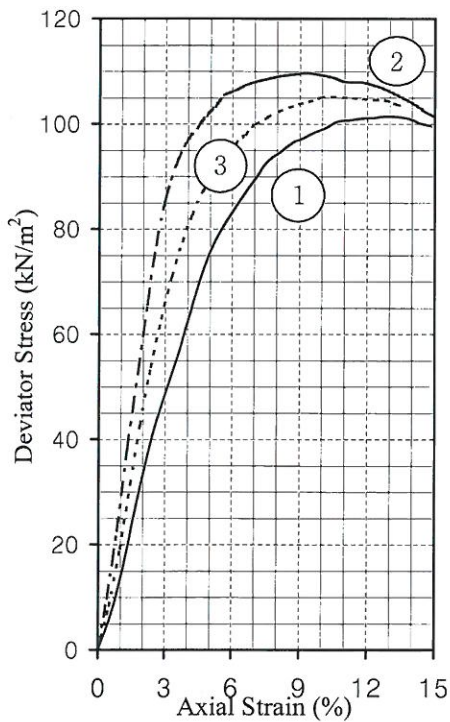
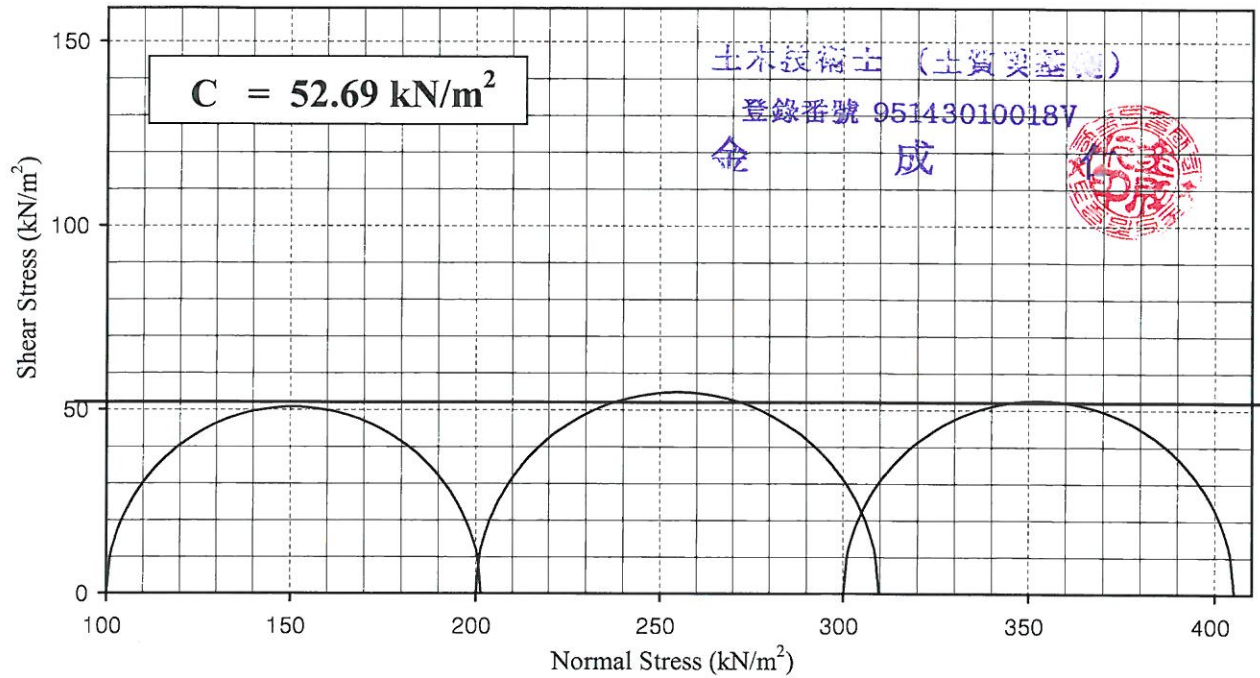
Consolidation time : -

섬안콘다리고 정밀안전진단 및 실시설계 기술용역

Bore Hole : BH-2

Depth : 4.0~4.8m

TRIAxIAL COMPRESSION TEST



Strain Control Test

Test No.				1	2	3
Initial	Water Content %	WCo	50.0	46.1	48.1	
	Dry Density kN/m ³	rd	11.26	11.83	11.54	
	Saturation %	So	100	100	100	
	Void Ratio	eo	1.340	1.228	1.284	
Before shear	Water Content %	WCc				
	Dry Density kN/m ³	r dc				
	Saturation %	Sc				
	Void Ratio	ec				
	Final Back Pressure(kN/m ²)	Uo				
Minor Principal Stress(kN/m ²)		σ3	100	200	300	
Max. Devi.Stress(kN/m ²),(σ1-σ3)max.			101.42	109.61	105.11	
Pore Pressure Stress (kN/m ²)		uf				
Ult. Dev. Stress (kN/m ²)						
Initial Diameter (cm)		D	5.0	5.0	5.0	
Initial Height (cm)		H	11.5	11.5	11.5	

Description of Specimens : Stiff Consistency Fat Clay (CH)

Order of samples : No. 2(lower part), 1(middle part), 3(upper).

Sample Condition : Well All Samples.

LL: 77.3 PL: 31.2 PI: 46.1 ps: 2.689

Test Date : 2013. 3. .

Type of specimen : UD

Type of Test : UU

Remarks :

Deformation rate : 1.0 % / Min. / H
Consolidation time : -

섬안콘다리고 정밀안전진단 및 실시설계 기술용역

Bore Hole : BH-3

Depth : 24.5~25.3m

DIRECT SHEAR TEST

PROJECT : 섬안큰다리고 정밀안전진단 및 실시설계 기술용역

Sample No. : BH-1 23.0~23.8m

Sample Condition : Undisturbed Sample (UD)

Sample Areal A : 28.274 cm²

Method of Test : Strain Control

Sample Volume V : 56.548 cm³

Method of Shear : Q

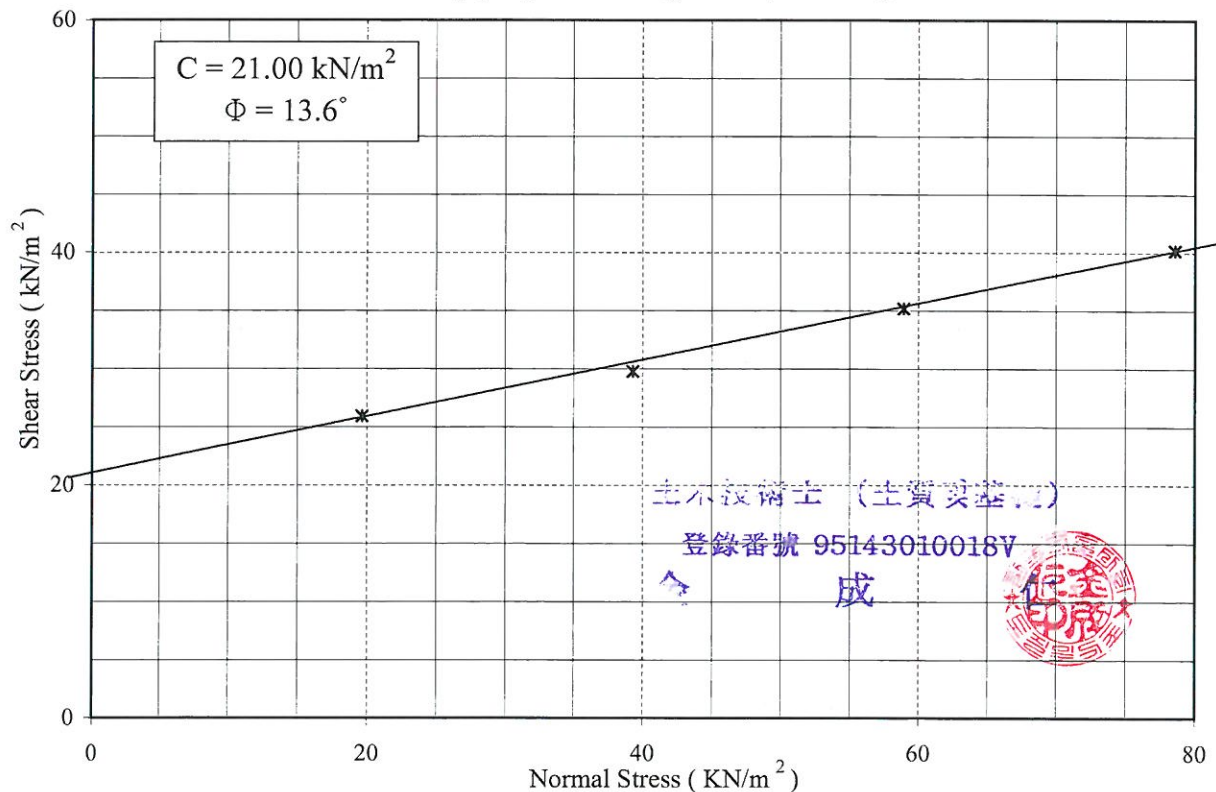
Initial height L : 2.00cm

Specific Gravity 2.689

Test Date : 2013. 3. .

TEST No.		1	2	3	4
Sample Weight	Wt (g)	94.15	94.15	94.18	95.26
Wet Density	ρ_t (kN/m ³)	16.32	16.32	16.32	16.51
Water Content	w (%)	56.4	56.4	56.4	56.4
Dry Density	ρ_d (kN/m ³)	10.43	10.43	10.44	10.56
Void Ratio	e	1.526	1.526	1.525	1.496
Saturation	S (%)	99.4	99.4	99.4	100
Deformation Rate	(mm/min)	1.0	1.0	1.0	1.0
Normal Load	(kN/m ²)	19.64	39.28	58.92	78.57
Maximun Shear Stress	(kN/m ²)	25.92	29.76	35.18	40.16

Remark : Fat Clay (CH), Peak Strength Value, Shearing Time Soaked.



DIRECT SHEAR TEST

PROJECT : 섬안큰다리고 정밀안전진단 및 실시설계 기술용역

Sample No. : BH-2 4.0~4.8m

Sample Condition : Undisturbed Sample (UD)

Sample Areal A : 28.274 cm²

Method of Test : Strain Control

Sample Volume V : 56.548 cm³

Method of Shear : Q

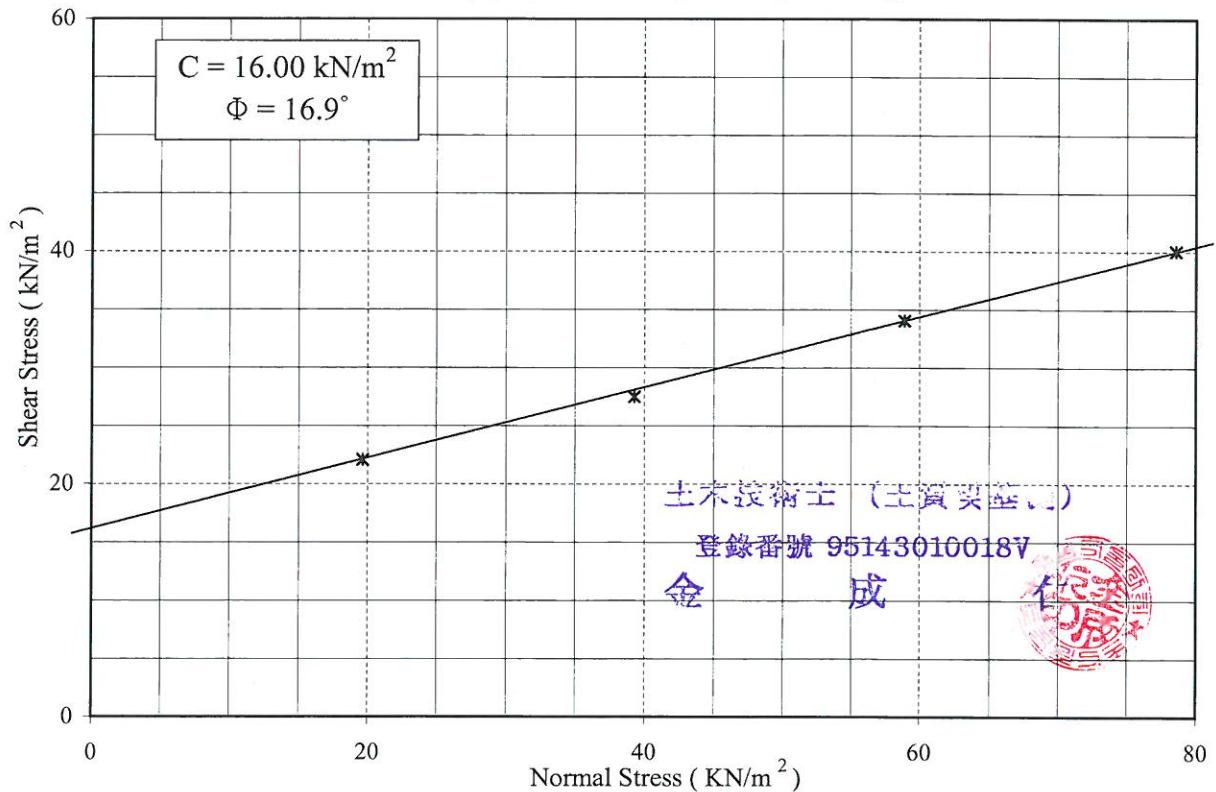
Initial height L : 2.00cm

Specific Gravity 2.679

Test Date : 2013. 3. .

TEST No.		1	2	3	4
Sample Weight	Wt (g)	102.34	102.23	102.48	102.01
Wet Density	ρ_t (kN/m ³)	17.74	17.72	17.76	17.68
Water Content	w (%)	38.1	38.1	38.1	38.1
Dry Density	ρ_d (kN/m ³)	12.84	12.83	12.86	12.80
Void Ratio	e	1.044	1.046	1.041	1.051
Saturation	S (%)	97.7	97.5	98.0	97.1
Deformation Rate	(mm/min)	1.0	1.0	1.0	1.0
Normal Load	(kN/m ²)	19.64	39.28	58.92	78.57
Maximun Shear Stress	(kN/m ²)	22.07	27.49	34.04	40.02

Remark : Lean Clay (CL), Peak Strength Value, Shearing Time Soaked.



DIRECT SHEAR TEST

PROJECT : 섬안큰다리고 정밀안전진단 및 실시설계 기술용역

Sample No. : BH-3 24.5~25.3m

Sample Condition : Undisturbed Sample (UD)

Sample Areal A : 28.274 cm²

Method of Test : Strain Control

Sample Volume V : 56.548 cm³

Method of Shear : Q

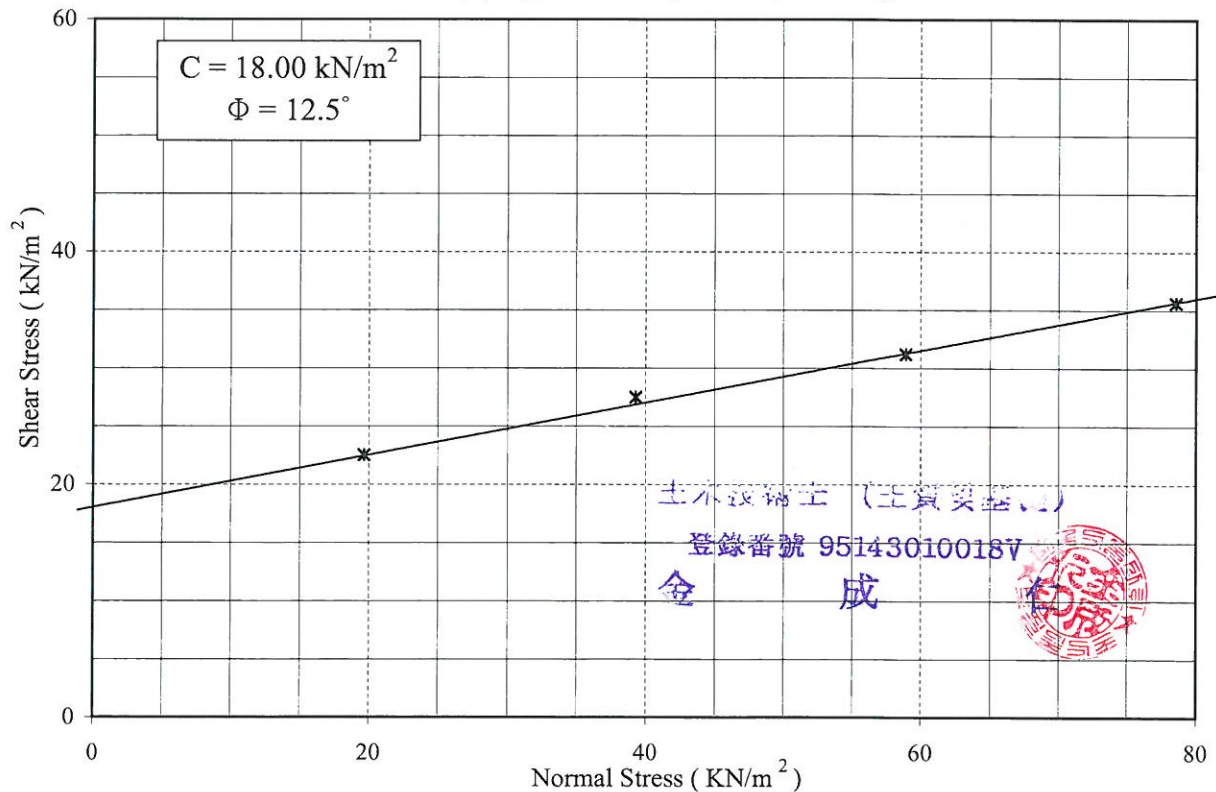
Initial height L : 2.00cm

Specific Gravity 2.689

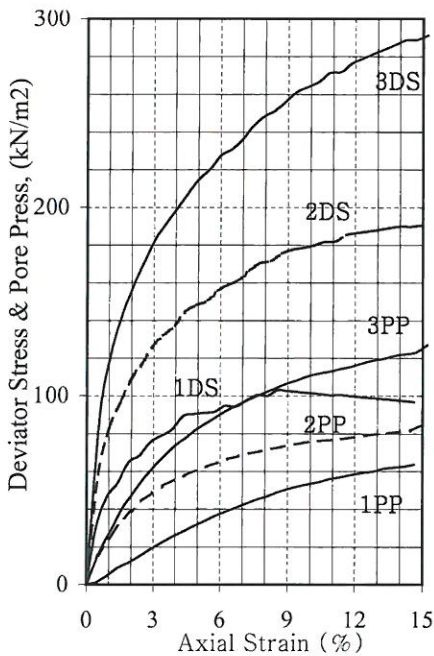
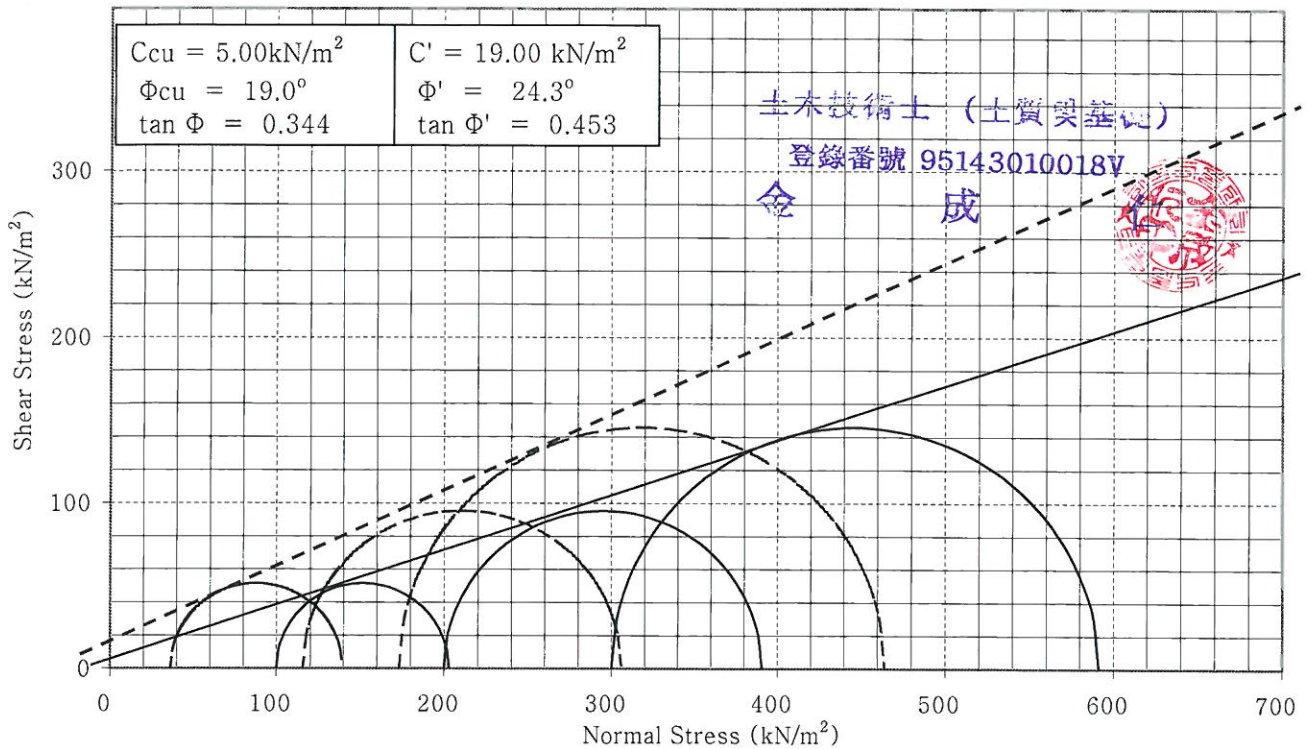
Test Date : 2013. 3. .

TEST No.		1	2	3	4
Sample Weight	Wt (g)	97.98	97.78	97.88	96.65
Wet Density	ρ_t (kN/m ³)	16.98	16.95	16.96	16.75
Water Content	w (%)	49.4	49.4	49.4	49.4
Dry Density	ρ_d (kN/m ³)	11.37	11.34	11.35	11.21
Void Ratio	e	1.319	1.323	1.321	1.350
Saturation	S (%)	100	100	100	98.4
Deformation Rate	(mm/min)	1.0	1.0	1.0	1.0
Normal Load	(kN/m ²)	19.64	39.28	58.92	78.57
Maximun Shear Stress	(kN/m ²)	22.50	27.49	31.19	35.60

Remark : Fat Clay (CH), Peak Strength Value, Shearing Time Soaked.



TRIAXIAL COMPRESSION TEST



Test No.			1	2	3
Natural	Water Content , %	Wo	48.0	44.4	51.0
	Dry Density , kN/m ³	r do	11.55	11.93	11.62
	Saturation , %	So	100.0	98.8	100
	Void Ratio	eo	1.282	1.208	1.268
Before Shear	Water Content , %	Wc	39.0	33.3	35.2
	Dry Density , kN/m ³	r dc	12.86	13.94	13.57
	Saturation , %	Sc	100	100	100
	Void Ratio	ec	1.049	0.895	0.947
	Final Back Pr.(kN/m ²)	Uo			
Minor Principal Str.(kN/m ²)		σ3	100.0	200.1	300.1
Max.Dev.Stress(kN/m ²) (σ1-σ3)max.			102.92	190.45	291.16
Pore Pressure Str.(kN/m ²)		uf	63.62	84.50	126.88
Ult.Dev.Stress(kN/m ²)(σ1-σ3)max.					
Initial Diameter(cm)		D	5.0	5.0	5.0
Initial Height(cm)		H	11.5	11.5	11.5

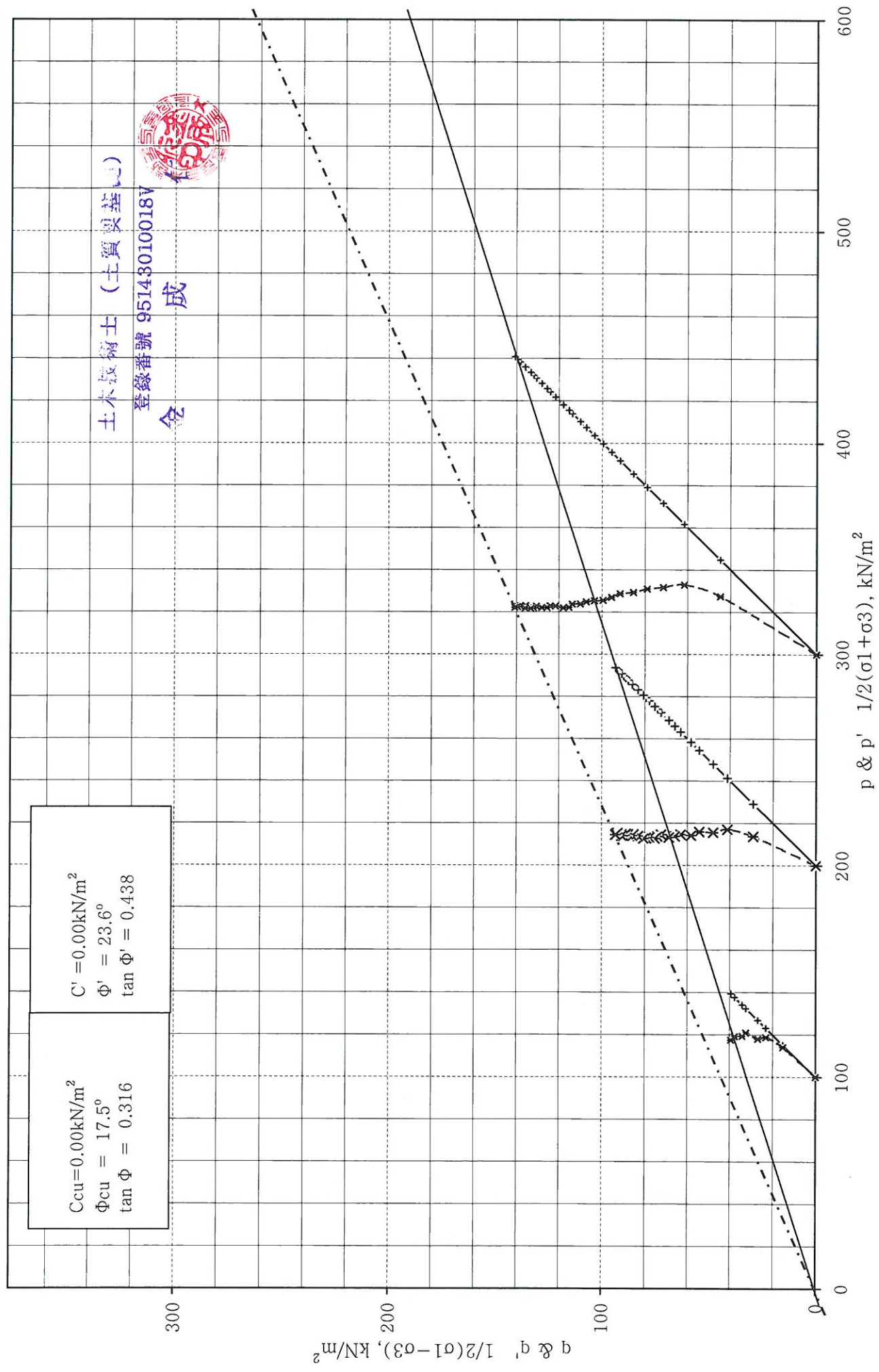
Strain Control Test	
Description of Specimens : Medium Consistency Fat Clay (CH)	
Order of samples : No.(lower part), 2(middle part), 3(upper).	
Sample Condition : Well All Samples.	
LL: 82.4 PL: 27.4 PI: 55.0 ps : 2.689	Type of specimen : Undisturbed Sample(UD)
Remarks : Test Date 2013. 3. . Deformation Rate : 0.2% / Min. /Height. Consolidation Time ; 15 Hour 시료를 Back Pressure(20kN/m²)로 약 8시간 포화시킨후(B계수=1) 압밀시킴.	Type of Test : CU
	보안큰다리고 정밀안전진단 및 실시설계 기술용역 Bore Hole : BH-1 Depth : 23.0~23.8m

STRESS PATH(응력경로)

BH-1 23.0~23.8m

PROJECT : 섬안큰다리교 정밀안전진단 및 실시설계 기술용역

Test Date : 2013. 3. .



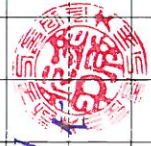
$C_{cu} = 0.00 \text{ kN/m}^2$
 $\Phi_{cu} = 17.5^\circ$
 $\tan \Phi = 0.316$

$C' = 0.00 \text{ kN/m}^2$
 $\Phi' = 23.6^\circ$
 $\tan \Phi' = 0.438$

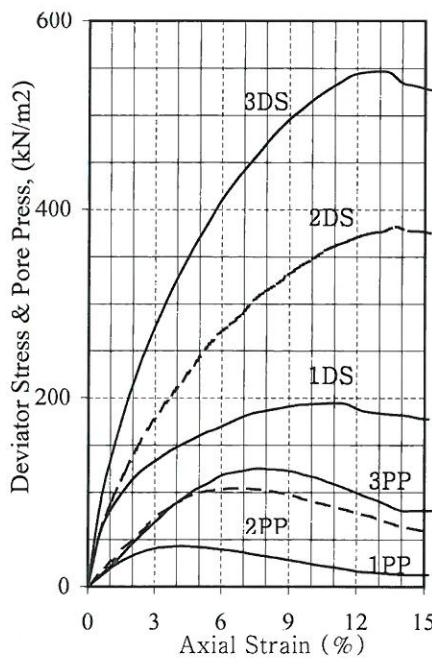
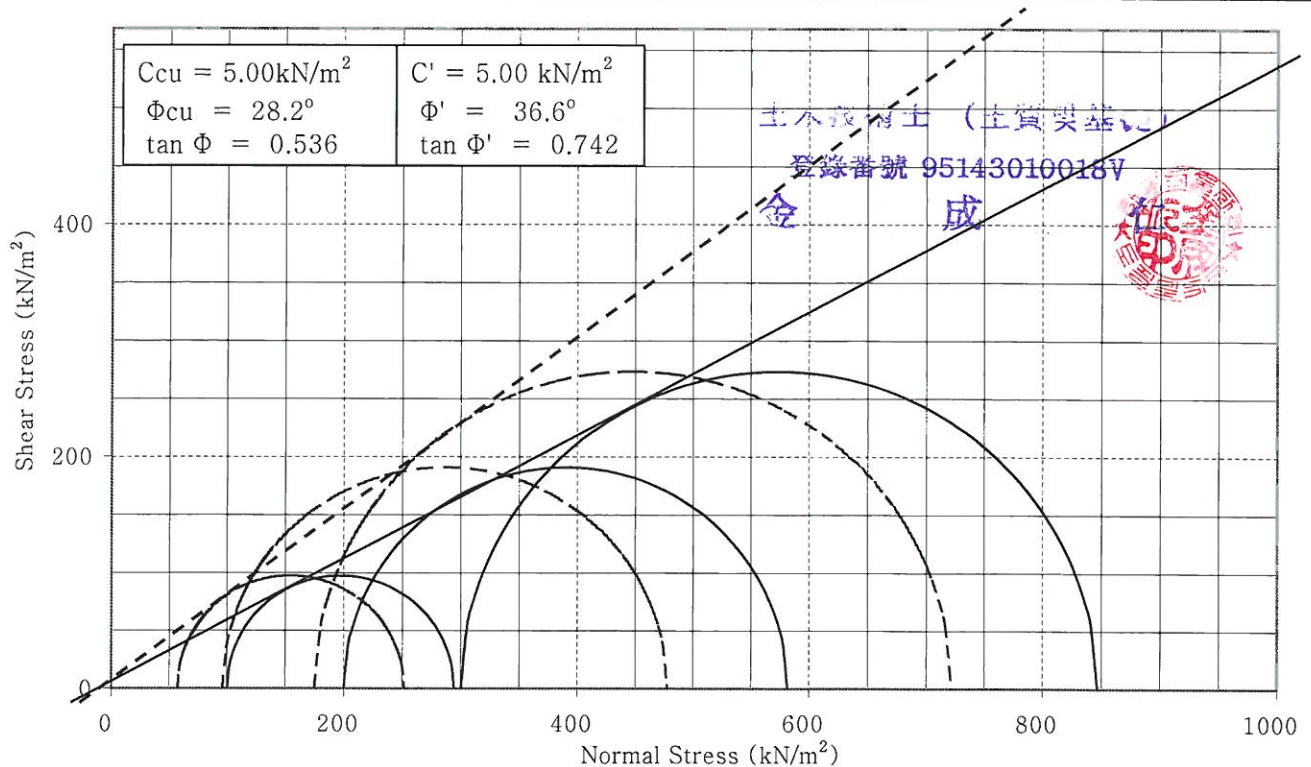
土木技術士 (土質製基)

登録番號 95143010018V

全 成



TRIAXIAL COMPRESSION TEST



Test No.			1	2	3
Natural	Water Content , %	Wo	31.2	31.8	28.5
	Dry Density , kN/m ³	r do	14.47	14.15	15.16
	Saturation , %	So	100.0	100	100
	Void Ratio	eo	0.814	0.856	0.732
Before Shear	Water Content , %	Wc	28.4	27.5	21.8
	Dry Density , kN/m ³	r dc	14.90	15.14	16.60
	Saturation , %	Sc	100	100	100
	Void Ratio	ec	0.762	0.738	0.585
	Final Back Pr.(kN/m ²)	Uo			
Minor Principal Str.(kN/m ²)		σ3	100.0	200.1	300.1
Max.Dev.Stress(kN/m ²) (σ1-σ3)max.			194.45	381.63	546.65
Pore Pressure Str.(kN/m ²)		uf	42.78	104.05	125.05
Ult.Dev.Stress(kN/m ²)(σ1-σ3)max.					
Initial Diameter(cm)		D	5.0	5.0	5.0
Initial Height(cm)		H	11.5	11.5	11.5

Strain Control Test

Description of Specimens :

Soft Consistency Lean Clay (CL)

Order of samples : No.(lower part),2(middle part), 3(upper).

Sample Condition : Well All Samples.

LL: 38.6 PL: 22.6 PI: 16.0 ps : 2.679

Type of specimen : Undisturbed Sample(UD)

Remarks : Test Date 2013. 3. .

Type of Test : CU

Deformation Rate : 0.2% / Min. /Height.

Consolidation Time ; 15 Hour

시료를 Back Pressure(20kN/m²)로

약 8시간 포화시킨후(B계수=1) 압밀시킴.

섬안큰다리고 정밀안전진단 및 실시설계 기술용역

Bore Hole : BH-2

Depth : 4.0~4.8m

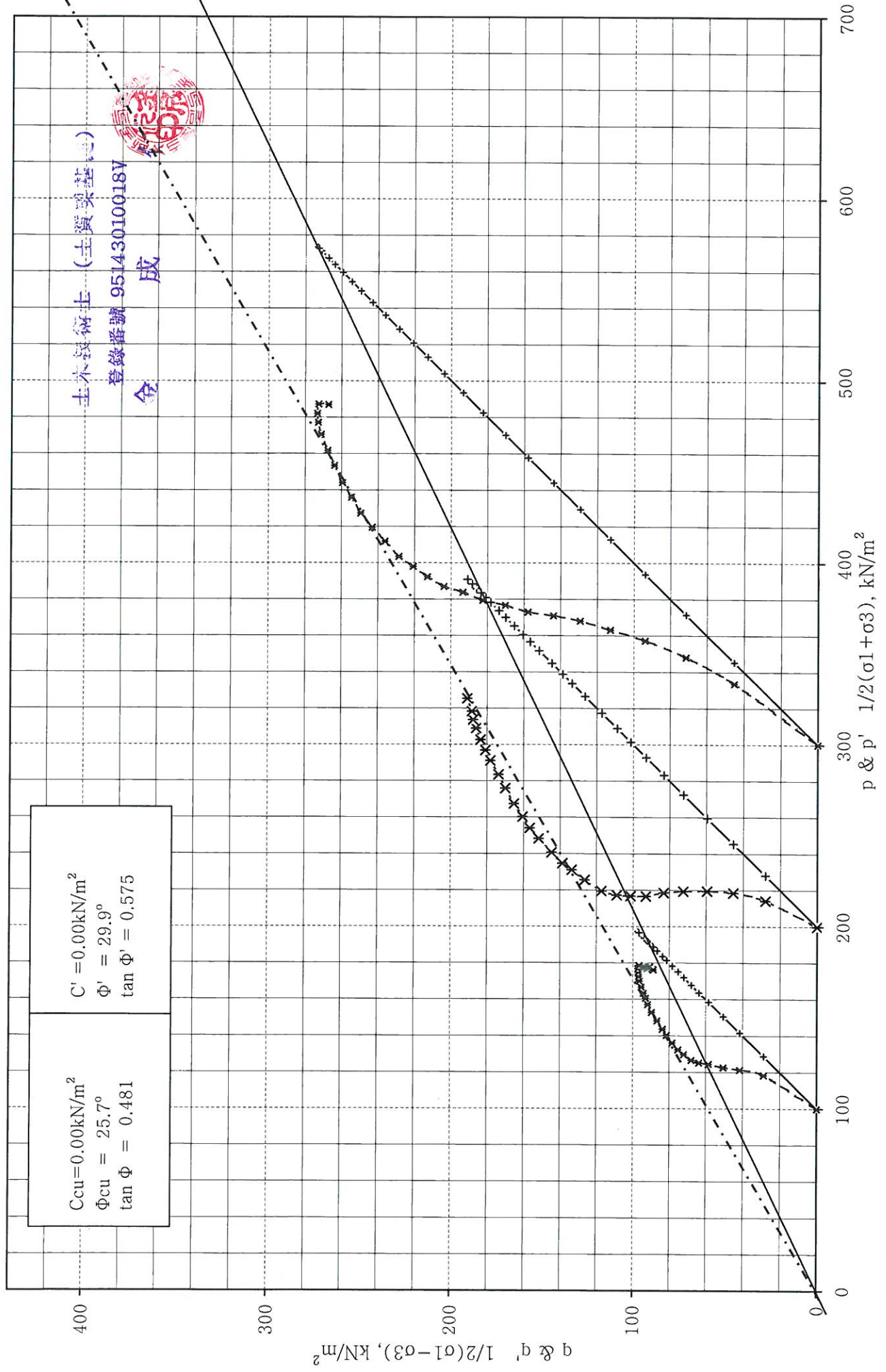
PEC-TI-12-02(00)

STRESS PATH(응력경로)

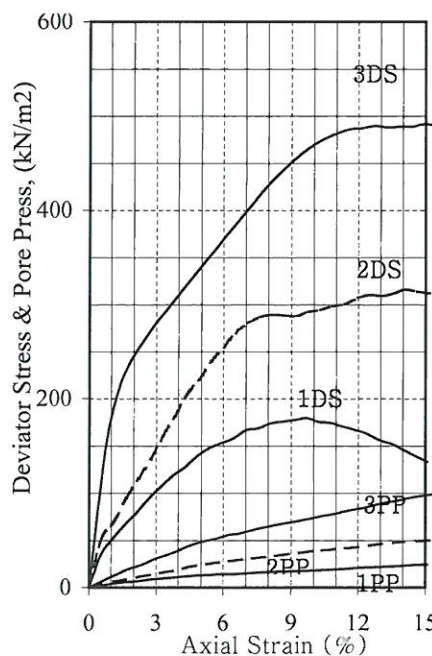
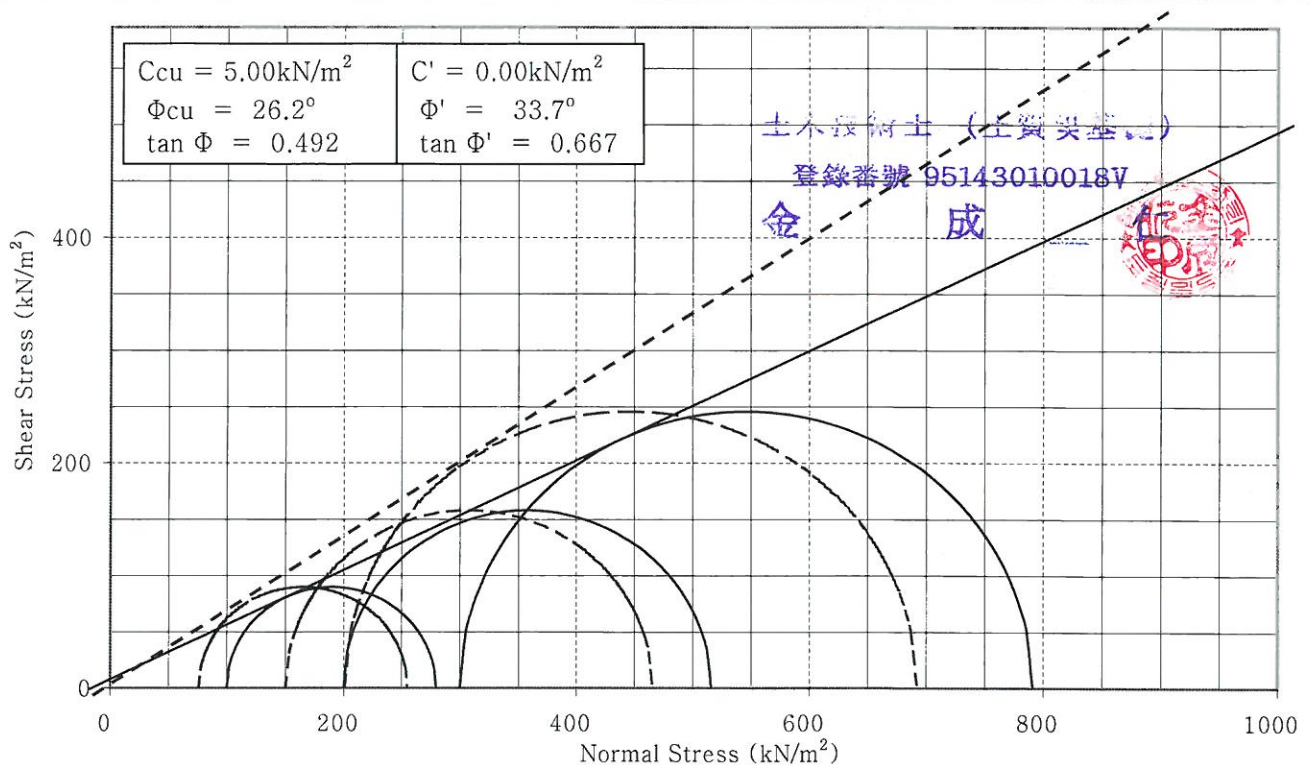
BH-2 4.0~4.8m

PROJECT : 섬안큰다리교 정밀안전진단 및 실시설계 기술용역

Test Date : 2013. 3. .



TRIAXIAL COMPRESSION TEST



Test No.			1	2	3
Natural	Water Content , %	Wo	25.7	26.8	26.1
	Dry Density , kN/m ³	r do	15.71	15.45	15.59
	Saturation , %	So	100	100	100
	Void Ratio	eo	0.677	0.706	0.691
Before Shear	Water Content , %	Wc	18.4	19.0	16.1
	Dry Density , kN/m ³	r dc	17.62	17.49	18.44
	Saturation , %	Sc	100	100	100
	Void Ratio	ec	0.495	0.510	0.432
	Final Back Pr.(kN/m ²)	Uo			
Minor Principal Str.(kN/m ²)		σ3	100.0	200.1	300.1
Max.Dev.Stress(kN/m ²) (σ1-σ3)max.			179.53	315.61	491.07
Pore Pressure Str.(kN/m ²)		uf	24.50	49.94	99.17
Ult.Dev.Stress(kN/m ²)(σ1-σ3)max.					
Initial Diameter(cm)		D	5.0	5.0	5.0
Initial Height(cm)		H	11.5	11.5	11.5

Strain Control Test

Description of Specimens :

Stiff Consistency Fat Clay (CH)

Order of samples : No.(lower part),2(middle part), 3(upper).

Sample Condition : Well All Samples.

LL: 77.3 PL: 31.2 PI: 46.1 ρ_s : 2.689

Type of specimen : Undisturbed Sample(UD)

Remarks : Test Date 2013. 3. .

Type of Test : CU

Deformation Rate : 0.2% / Min. /Height.

Consolidation Time ; 15 Hour

시료를 Back Pressure(20 kN/m^2)로

약 8시간 포화시킨후(B계수=1) 압밀시킴.

섬안큰다리고 정밀안전진단 및 실시설계 기술용역

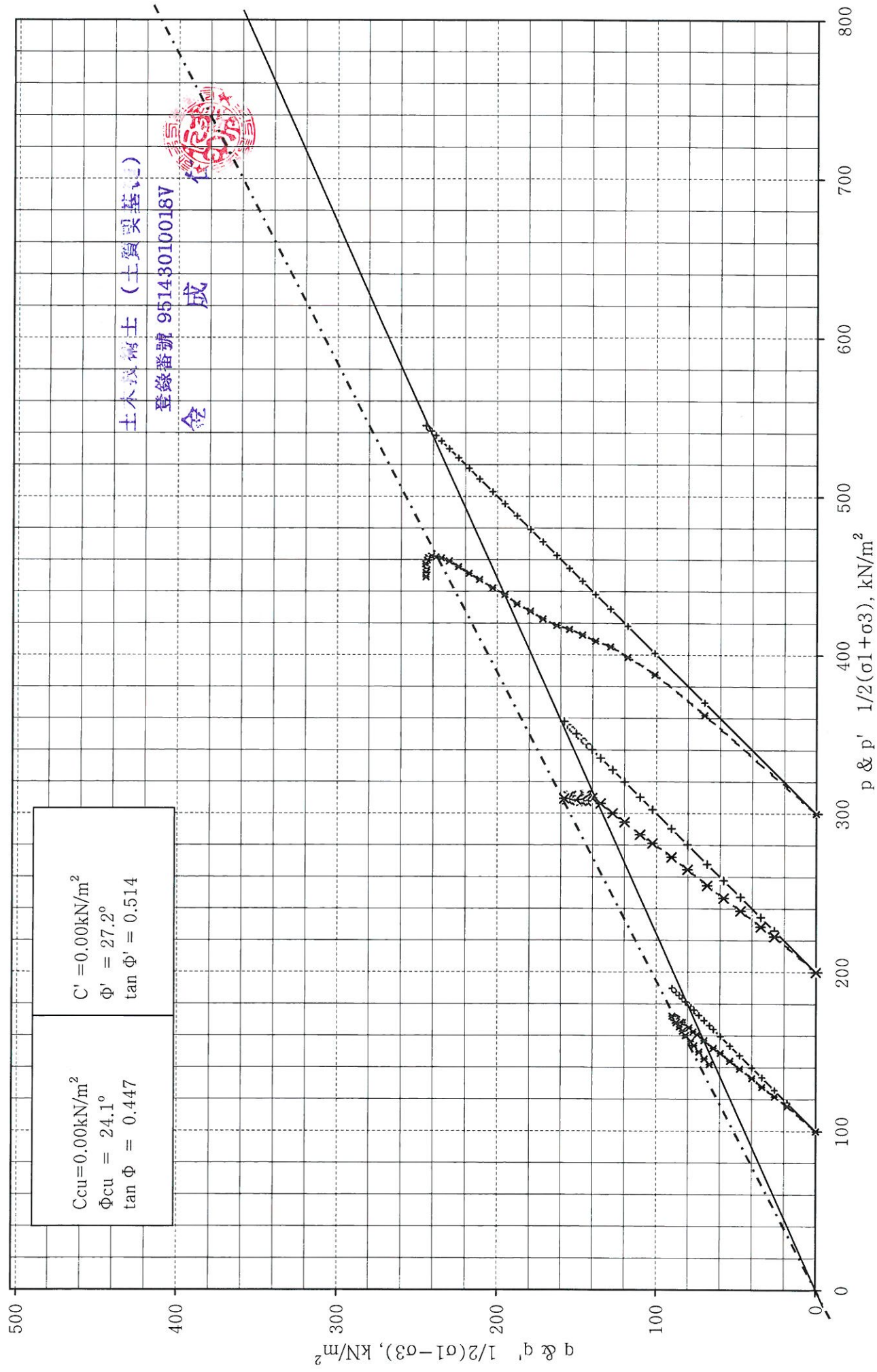
Bore Hole : BH-3

Depth : 24.5~25.3m

PEC-TI-12-02(00)

BH-3 24.5~25.3m

Test Date : 2013. 3.

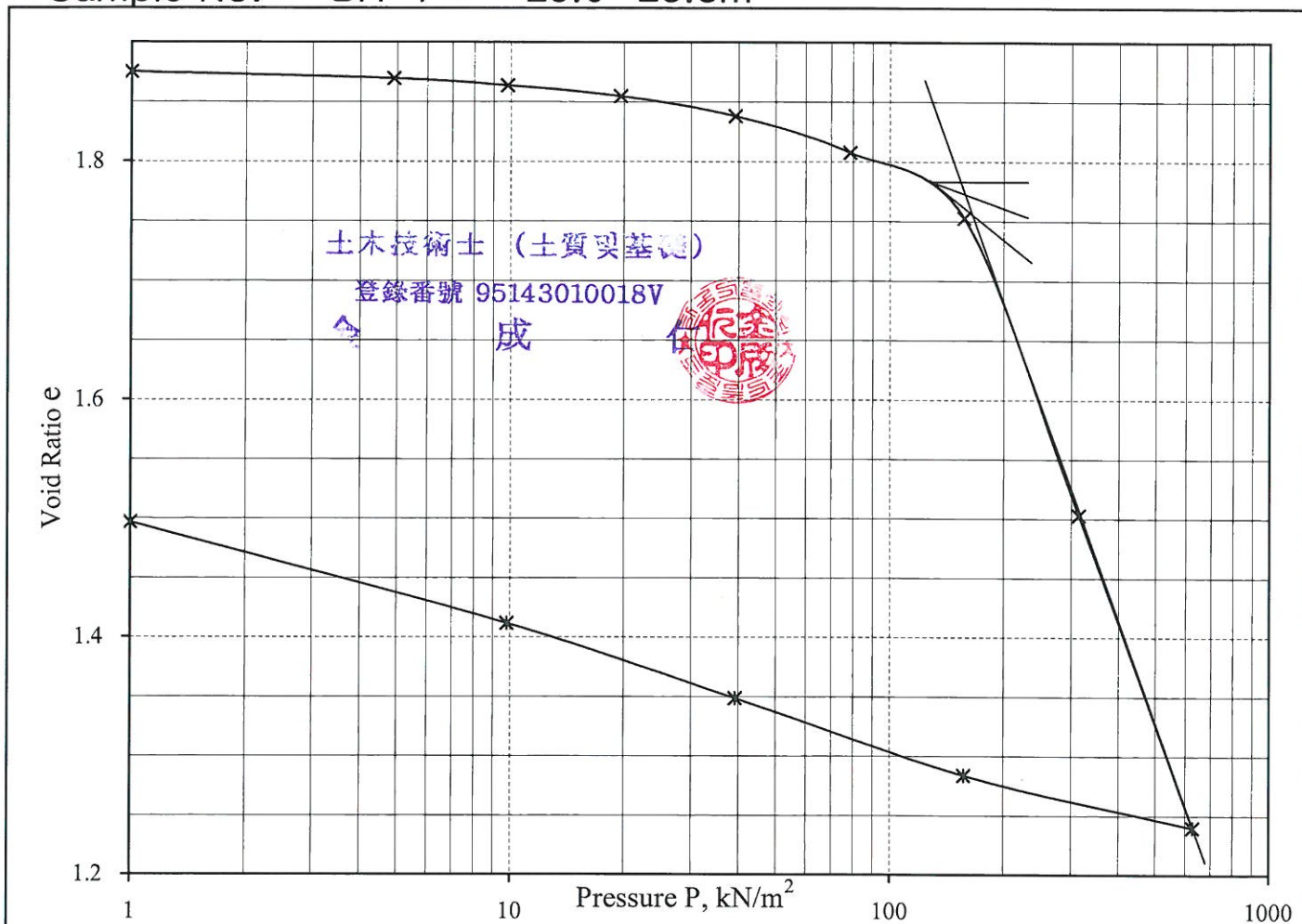


CONSOLIDATION TEST RESULTS

PROJECT : 섬안큰다리고 정밀안전진단 및 실시설계 기술용역

Sample No. : BH-1 23.0~23.8m

TEST DATE : 2013. 3.



Water Content, % : 70.2

Dry Density, kN/m^3 : 9.17

ρ_s , g/cm^3 : 2.689

Type of Specimen

Dia. 6.00 cm

Height 2.00 cm

P_c : 150.0 kN/m^2

C_c : 0.875

C_s : 0.106

Remark : Fat Clay (CH)

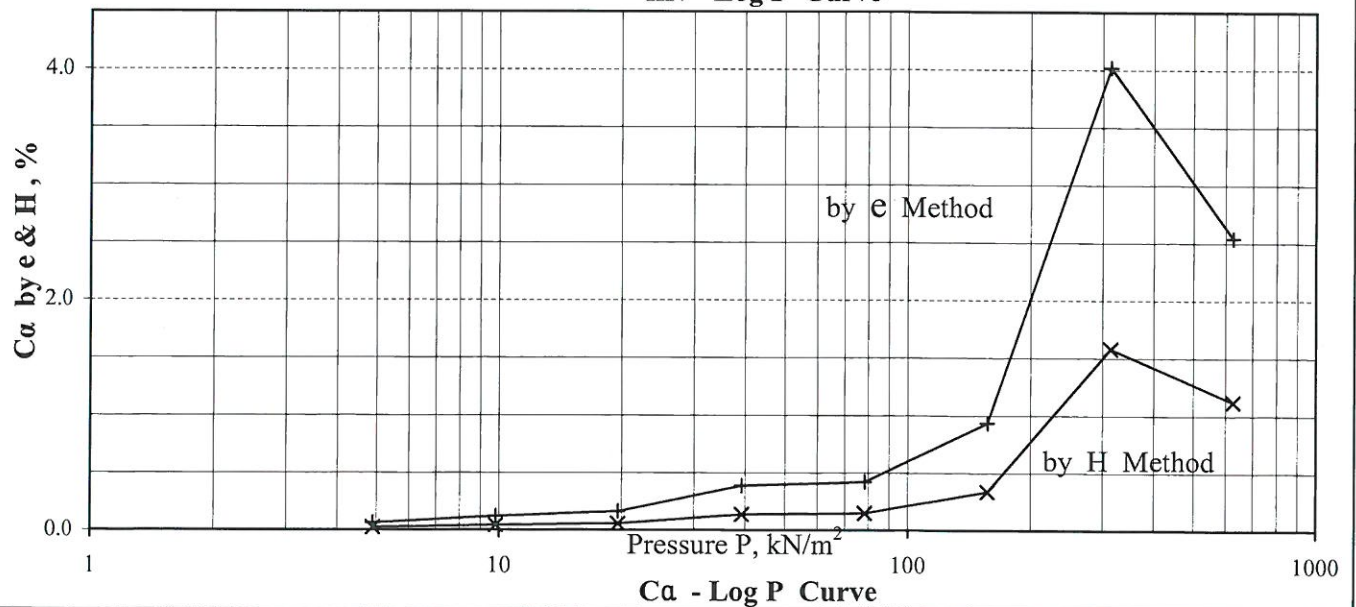
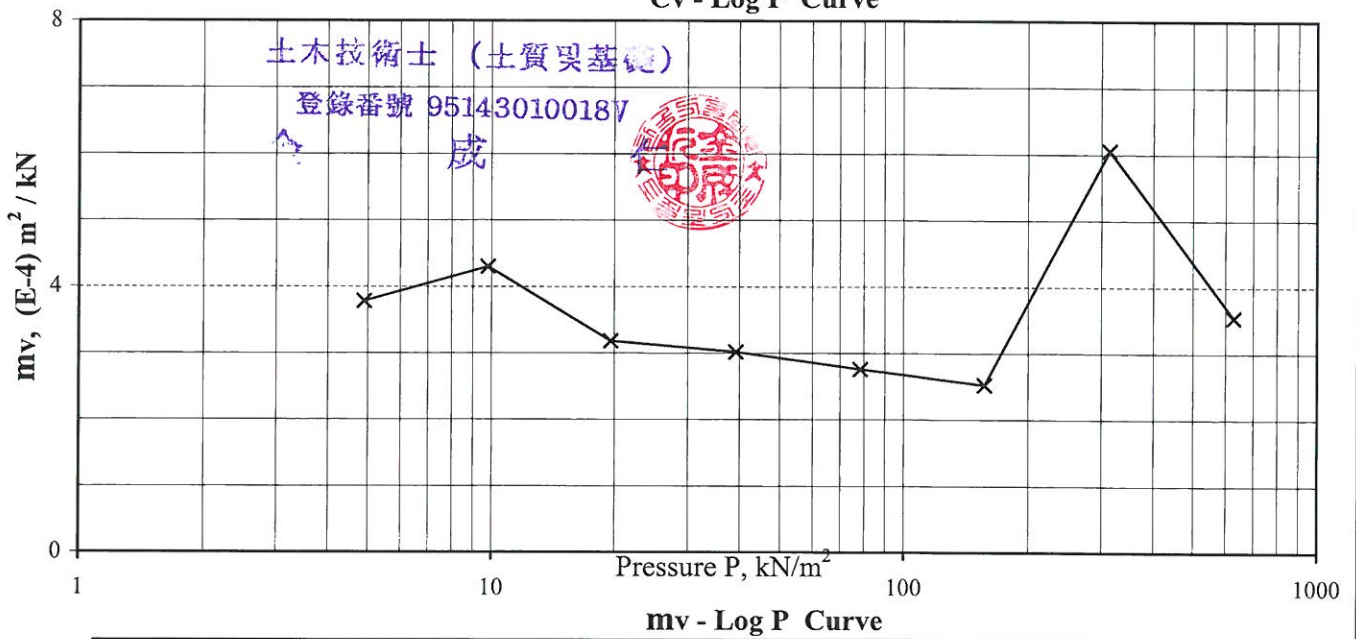
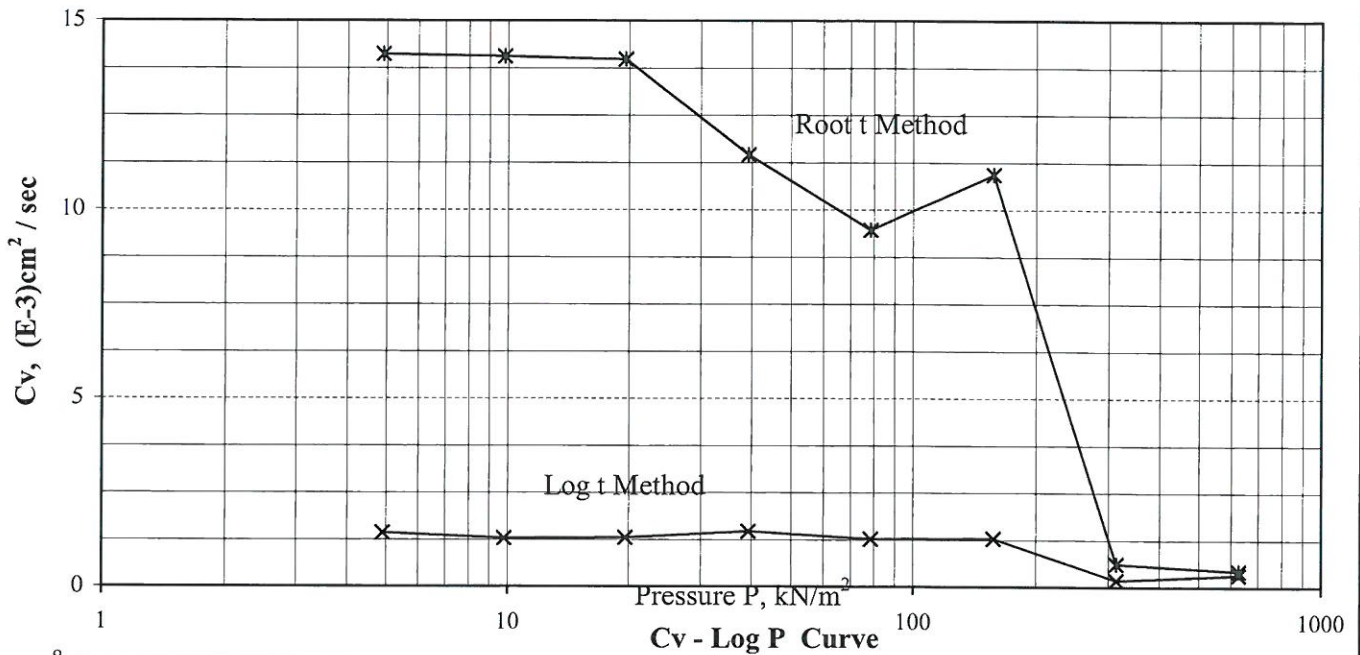
p kN/m^2	e	C_v (E-3) cm^2/sec		m_v (E-4) m^2/kN	k (E-8) cm/sec		r (일차압밀비)		C_α (이차 압축지수) by H
		Log t	Root t		Log t	Root t	Log t	Root t	
0.00	1.875								
4.90	1.870	1.425	14.107	3.78	5.28	52.24	0.865	0.751	0.0002
9.81	1.864	1.279	14.051	4.30	5.39	59.19	0.595	0.503	0.0004
19.61	1.855	1.299	13.978	3.18	4.05	43.57	0.710	0.609	0.0006
39.23	1.838	1.463	11.449	3.01	4.32	33.82	0.692	0.570	0.0014
78.45	1.807	1.266	9.461	2.75	3.42	25.54	0.717	0.587	0.0015
156.91	1.753	1.279	10.921	2.52	3.16	26.97	0.654	0.494	0.0034
313.82	1.503	0.177	0.610	6.05	1.05	3.62	0.834	0.549	0.0158
627.64	1.240	0.319	0.426	3.54	1.11	1.48	0.880	0.735	0.0112
156.91	1.283								
39.23	1.348	Root and Log Time method (24 Hours Interval)							
9.81	1.412								
0.00	1.497								

CONSOLIDATION TEST RESULTS

PROJECT : 섬안큰다리고 정밀안전진단 및 실시설계 기술용역

Sample No. : BH-1 23.0~23.8m

TEST DATE : 2013. 3.

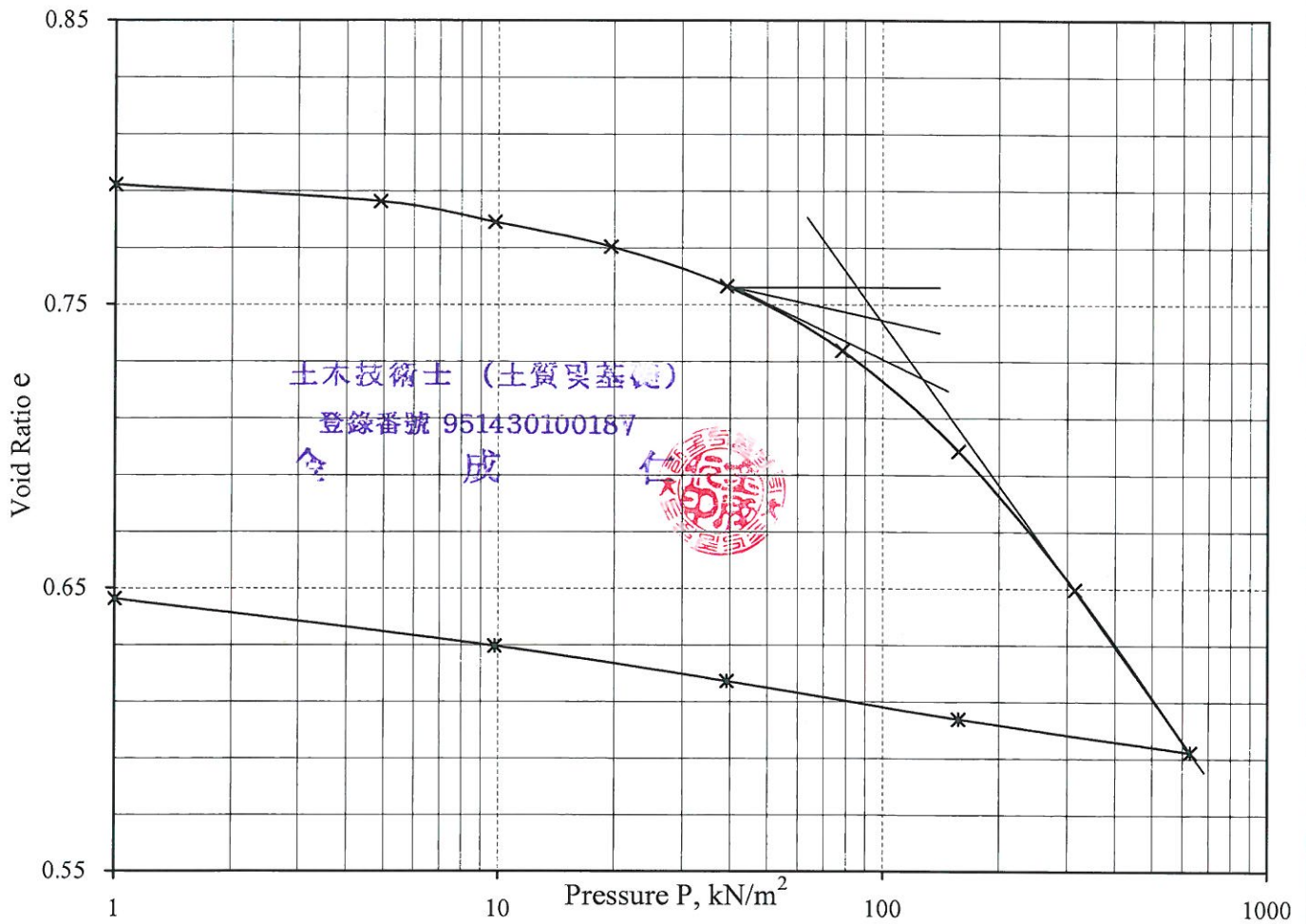


CONSOLIDATION TEST RESULTS

PROJECT : 섬안큰다리고 정밀안전진단 및 실시설계 기술용역

Sample No. : BH-2 4.0~4.8m

TEST DATE : 2013. 3.



Water Content, % : 29.6
Dry Density, kN/m^3 : 14.65
 ρ_s , g/cm^3 : 2.679

Type of Specimen
Dia. 6.00 cm
Height 2.00 cm

P_c : 99.0 kN/m^2
 C_c : 0.191
 C_s : 0.021

Remark : Lean Clay (CL)

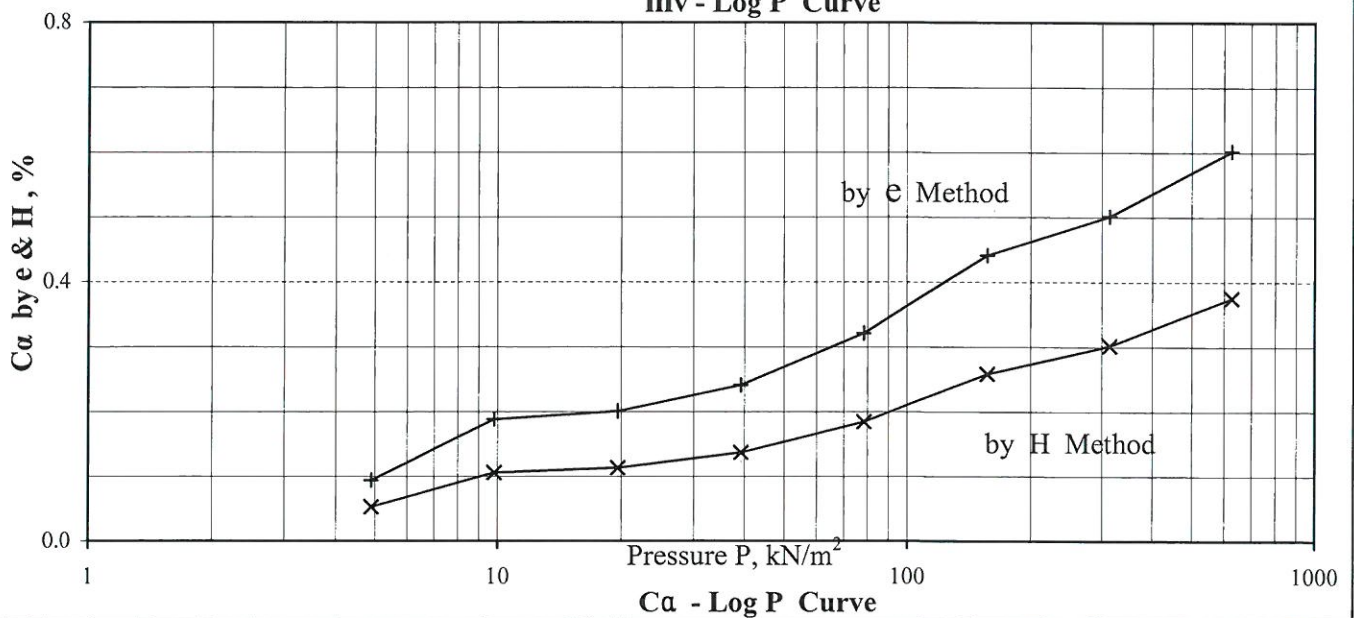
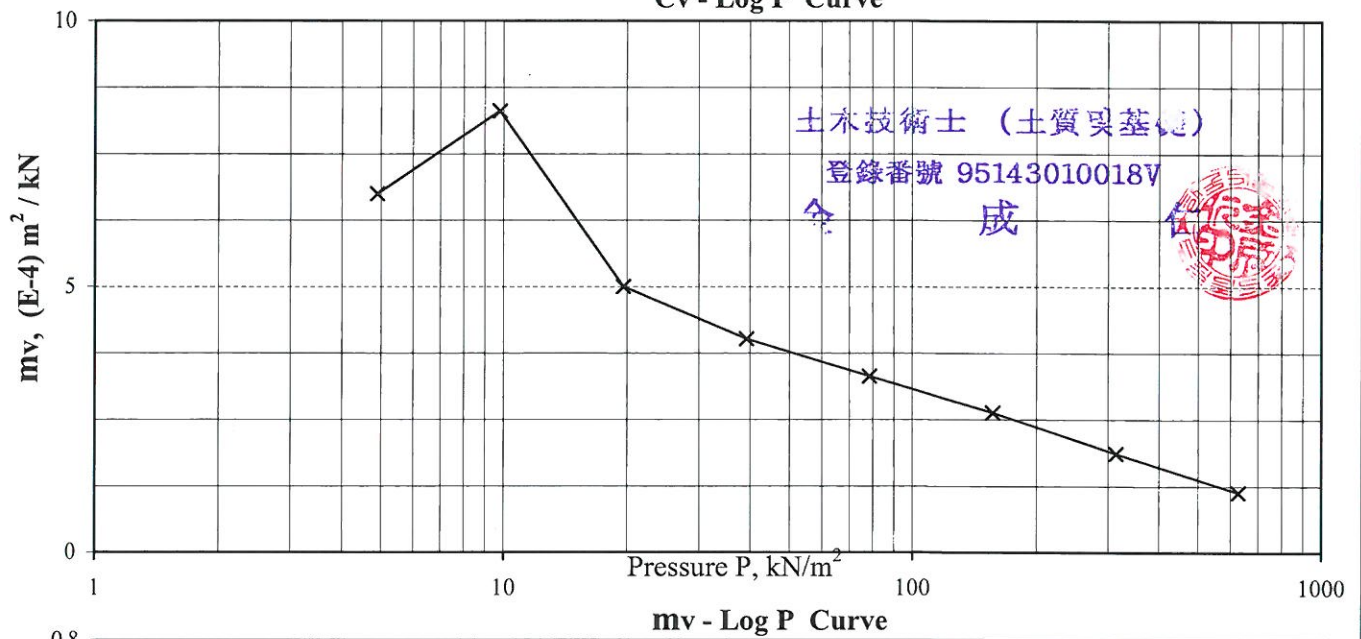
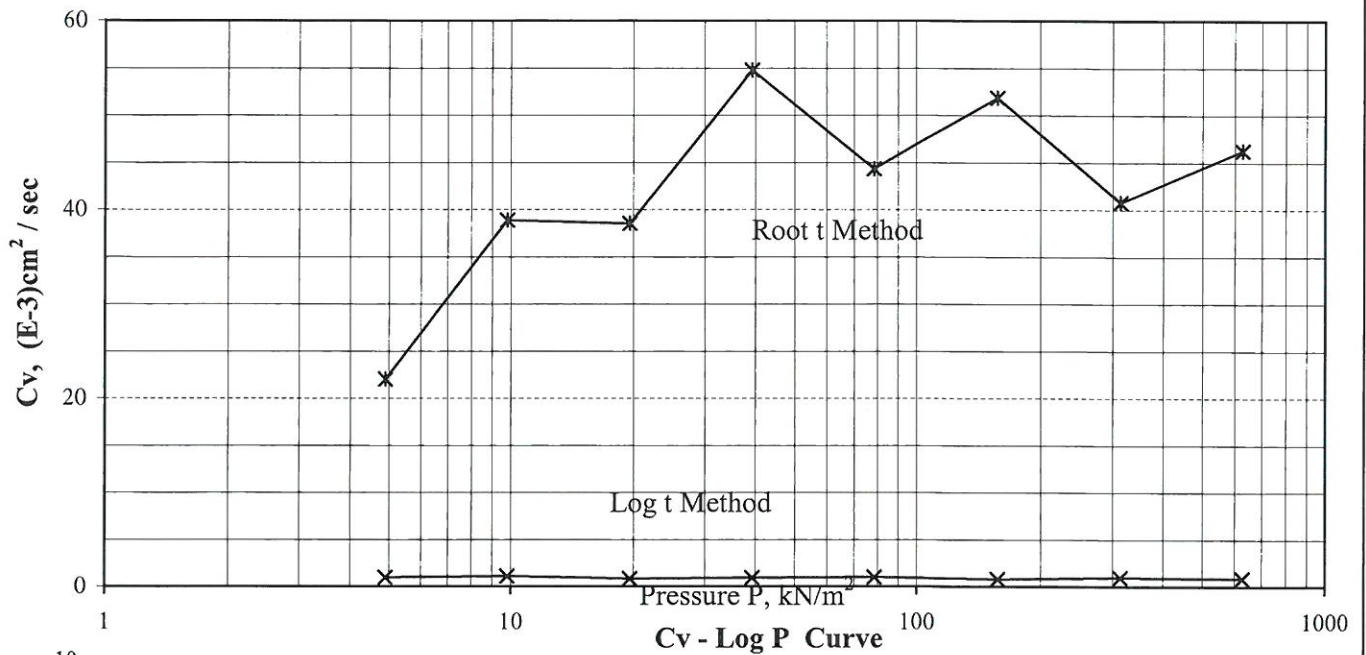
p kN/m^2	e	C_v (E-3) cm^2/sec		m_v (E-4) m^2/kN	k (E-8) cm/sec		r (일차압밀비)		C_α (이차 압축지수) by H
		Log t	Root t		Log t	Root t	Log t	Root t	
0.00	0.792								
4.90	0.786	0.963	22.011	6.74	6.36	145.51	0.848	0.640	0.0005
9.81	0.779	1.083	38.842	8.30	8.82	316.31	0.605	0.412	0.0011
19.61	0.770	0.805	38.495	4.99	3.94	188.55	0.701	0.493	0.0011
39.23	0.756	0.908	54.730	4.02	3.58	215.55	0.716	0.509	0.0014
78.45	0.734	0.973	44.299	3.31	3.16	143.88	0.696	0.509	0.0018
156.91	0.698	0.792	51.833	2.63	2.04	133.64	0.729	0.473	0.0026
313.82	0.650	0.955	40.760	1.86	1.74	74.32	0.739	0.526	0.0030
627.64	0.592	0.839	46.241	1.13	0.93	51.13	0.794	0.561	0.0037
156.91	0.604								
39.23	0.617	Root and Log Time method (24 Hours Interval)							
9.81	0.630								
0.00	0.646								

CONSOLIDATION TEST RESULTS

PROJECT : 섬안큰다리고 정밀안전진단 및 실시설계 기술용역

Sample No. : BH-2 4.0~4.8m

TEST DATE : 2013. 3.

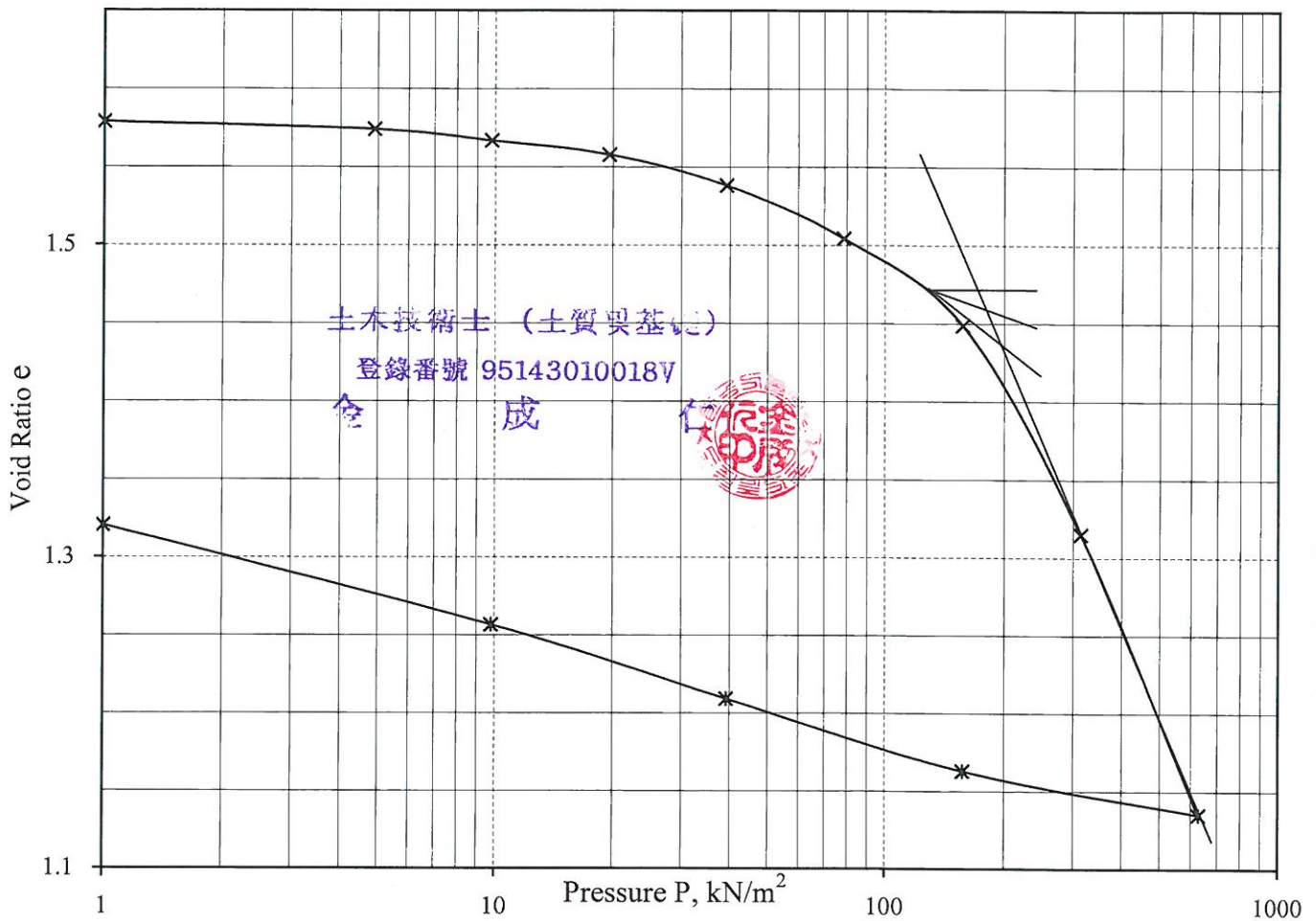


CONSOLIDATION TEST RESULTS

PROJECT : 섬안큰다리고 정밀안전진단 및 실시설계 기술용역

Sample No. : BH-3 24.5~25.3m

TEST DATE : 2013. 3.



Water Content, % : 59.0

Dry Density, kN/m³ : 10.22

ρ_s , g/cm³ : 2.689

Type of Specimen

Dia. 6.00 cm

Height 2.00 cm

P_c : 170.0 kN/m²

C_c : 0.598

C_s : 0.078

Remark : Fat Clay (CH)

p kN/m²	e	C_v (E-3) cm²/sec		m_v (E-4) m²/kN	k (E-8) cm/sec		r (일차압밀비)		C_α (이차 압축지수) by H
		Log t	Root t		Log t	Root t	Log t	Root t	
0.00	1.579								
4.90	1.574	2.048	14.108	3.67	7.38	50.83	0.833	0.833	0.0002
9.81	1.567	0.362	14.043	5.73	2.04	78.89	0.786	0.675	0.0002
19.61	1.558	1.297	9.691	3.59	4.57	34.13	0.686	0.556	0.0005
39.23	1.538	0.866	7.040	3.92	3.33	27.08	0.776	0.607	0.0014
78.45	1.504	0.826	6.005	3.43	2.78	20.19	0.783	0.617	0.0016
156.91	1.449	0.797	5.092	2.85	2.23	14.25	0.751	0.576	0.0033
313.82	1.315	0.318	1.717	3.58	1.12	6.03	0.831	0.528	0.0078
627.64	1.135	0.461	0.729	2.58	1.17	1.84	0.863	0.696	0.0081
156.91	1.163								
39.23	1.209	Root and Log Time method (24 Hours Interval)							
9.81	1.256								
0.00	1.320								

CONSOLIDATION TEST RESULTS

PROJECT : 섬안큰다리고 정밀안전진단 및 실시설계 기술용역

Sample No. : BH-3 24.5~25.3m

TEST DATE : 2013. 3.

