

# SYMBOLS AND TERMS

## SOIL DESCRIPTION

Behavioural properties, such as structure and strength, take precedence over particle gradation in describing soils. Terminology describing soil structure are as follows:

Desiccated	-	having visible signs of weathering by oxidation of clay minerals, shrinkage cracks, etc.
Fissured	-	having cracks, and hence a blocky structure.
Varved	-	composed of regular alternating layers of silt and clay.
Stratified	-	composed of alternating layers of different soil types, e.g. silt and sand or silt and clay.
Well-Graded	-	Having wide range in grain sizes and substantial amounts of all intermediate particle sizes (see Grain Size Distribution).
Uniformly-Graded	-	Predominantly of one grain size (see Grain Size Distribution).

The standard terminology to describe the strength of cohesionless soils is the relative density, usually inferred from the results of the Standard Penetration Test (SPT) 'N' value. The SPT N value is the number of blows of a 63.5 kg hammer, falling 760 mm, required to drive a 51 mm O.D. split spoon sampler 300 mm into the soil after an initial penetration of 150 mm.

Relative Density	'N' Value	Relative Density %
Very Loose	<4	<15
Loose	4-10	15-35
Compact	10-30	35-65
Dense	30-50	65-85
Very Dense	>50	>85

The standard terminology to describe the strength of cohesive soils is the consistency, which is based on the undisturbed undrained shear strength as measured by the in situ or laboratory vane tests, penetrometer tests, unconfined compression tests, or occasionally by Standard Penetration Tests.

Consistency	Undrained Shear Strength (kPa)	'N' Value
Very Soft	<12	<2
Soft	12-25	2-4
Firm	25-50	4-8
Stiff	50-100	8-15
Very Stiff	100-200	15-30
Hard	>200	>30

## SYMBOLS AND TERMS (continued)

### SOIL DESCRIPTION (continued)

Cohesive soils can also be classified according to their “sensitivity”. The sensitivity is the ratio between the undisturbed undrained shear strength and the remoulded undrained shear strength of the soil.

Terminology used for describing soil strata based upon texture, or the proportion of individual particle sizes present is provided on the Textural Soil Classification Chart at the end of this information package.

### ROCK DESCRIPTION

The structural description of the bedrock mass is based on the Rock Quality Designation (RQD).

The RQD classification is based on a modified core recovery percentage in which all pieces of sound core over 100 mm long are counted as recovery. The smaller pieces are considered to be a result of closely-spaced discontinuities (resulting from shearing, jointing, faulting, or weathering) in the rock mass and are not counted. RQD is ideally determined from NXL size core. However, it can be used on smaller core sizes, such as BX, if the bulk of the fractures caused by drilling stresses (called “mechanical breaks”) are easily distinguishable from the normal in situ fractures.

<b>RQD %</b>	<b>ROCK QUALITY</b>
90-100	Excellent, intact, very sound
75-90	Good, massive, moderately jointed or sound
50-75	Fair, blocky and seamy, fractured
25-50	Poor, shattered and very seamy or blocky, severely fractured
0-25	Very poor, crushed, very severely fractured

### SAMPLE TYPES

SS	-	Split spoon sample (obtained in conjunction with the performing of the Standard Penetration Test (SPT))
TW	-	Thin wall tube or Shelby tube
PS	-	Piston sample
AU	-	Auger sample or bulk sample
WS	-	Wash sample
RC	-	Rock core sample (Core bit size AXT, BXL, etc.). Rock core samples are obtained with the use of standard diamond drilling bits.
P	-	Split-spoon pushed through sampling interval which was also tested using a vane apparatus and resulted in a obtaining a sample of disturbed material (i.e., blow-counts not reflective of undisturbed, in-situ soils and not considered relevant)



## SYMBOLS AND TERMS (continued)

### GRAIN SIZE DISTRIBUTION

MC%	-	Natural moisture content or water content of sample, %
LL	-	Liquid Limit, % (water content above which soil behaves as a liquid)
PL	-	Plastic limit, % (water content above which soil behaves plastically)
PI	-	Plasticity index, % (difference between LL and PL)
Dxx	-	Grain size which xx% of the soil, by weight, is of finer grain sizes These grain size descriptions are not used below 0.075 mm grain size
D10	-	Grain size at which 10% of the soil is finer (effective grain size)
D60	-	Grain size at which 60% of the soil is finer
Cc	-	Concavity coefficient = $(D_{30})^2 / (D_{10} \times D_{60})$
Cu	-	Uniformity coefficient = $D_{60} / D_{10}$

Cc and Cu are used to assess the grading of sands and gravels:

Well-graded gravels have:  $1 < Cc < 3$  and  $Cu > 4$

Well-graded sands have:  $1 < Cc < 3$  and  $Cu > 6$

Sands and gravels not meeting the above requirements are poorly-graded or uniformly-graded.

Cc and Cu are not applicable for the description of soils with more than 10% silt and clay (more than 10% finer than 0.075 mm or the #200 sieve)

### CONSOLIDATION TEST

$p'_o$	-	Present effective overburden pressure at sample depth
$p'_c$	-	Preconsolidation pressure of (maximum past pressure on) sample
Ccr	-	Recompression index (in effect at pressures below $p'_c$ )
Cc	-	Compression index (in effect at pressures above $p'_c$ )
OC Ratio		Overconsolidation ratio = $p'_c / p'_o$
Void Ratio		Initial sample void ratio = volume of voids / volume of solids
Wo	-	Initial water content (at start of consolidation test)

### PERMEABILITY TEST

k	-	Coefficient of permeability or hydraulic conductivity is a measure of the ability of water to flow through the sample. The value of k is measured at a specified unit weight for (remoulded) cohesionless soil samples, because its value will vary with the unit weight or density of the sample during the test.
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## SYMBOLS AND TERMS (continued)

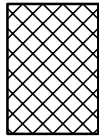
### STRATA PLOT



Topsoil



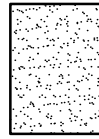
Asphalt



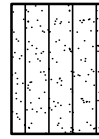
Fill



Peat



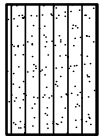
Sand



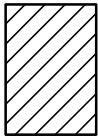
Silty Sand



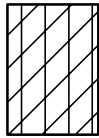
Silt



Sandy Silt



Clay



Silty Clay



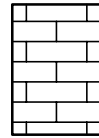
Clayey Silty Sand



Glacial Till



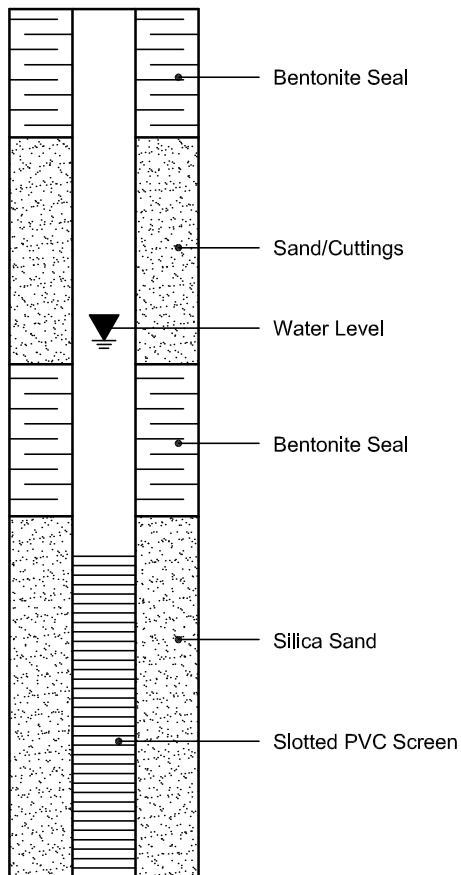
Shale



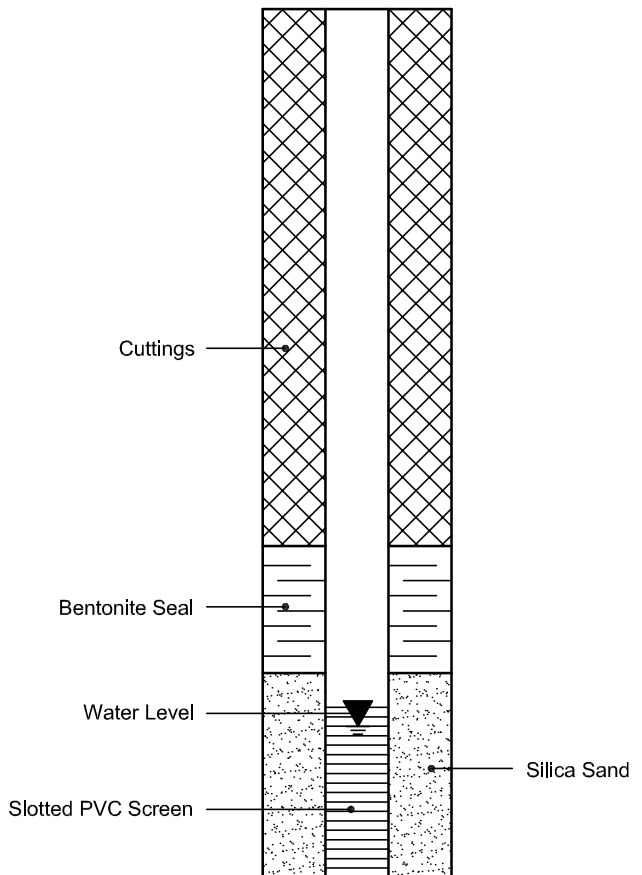
Bedrock

### MONITORING WELL AND PIEZOMETER CONSTRUCTION

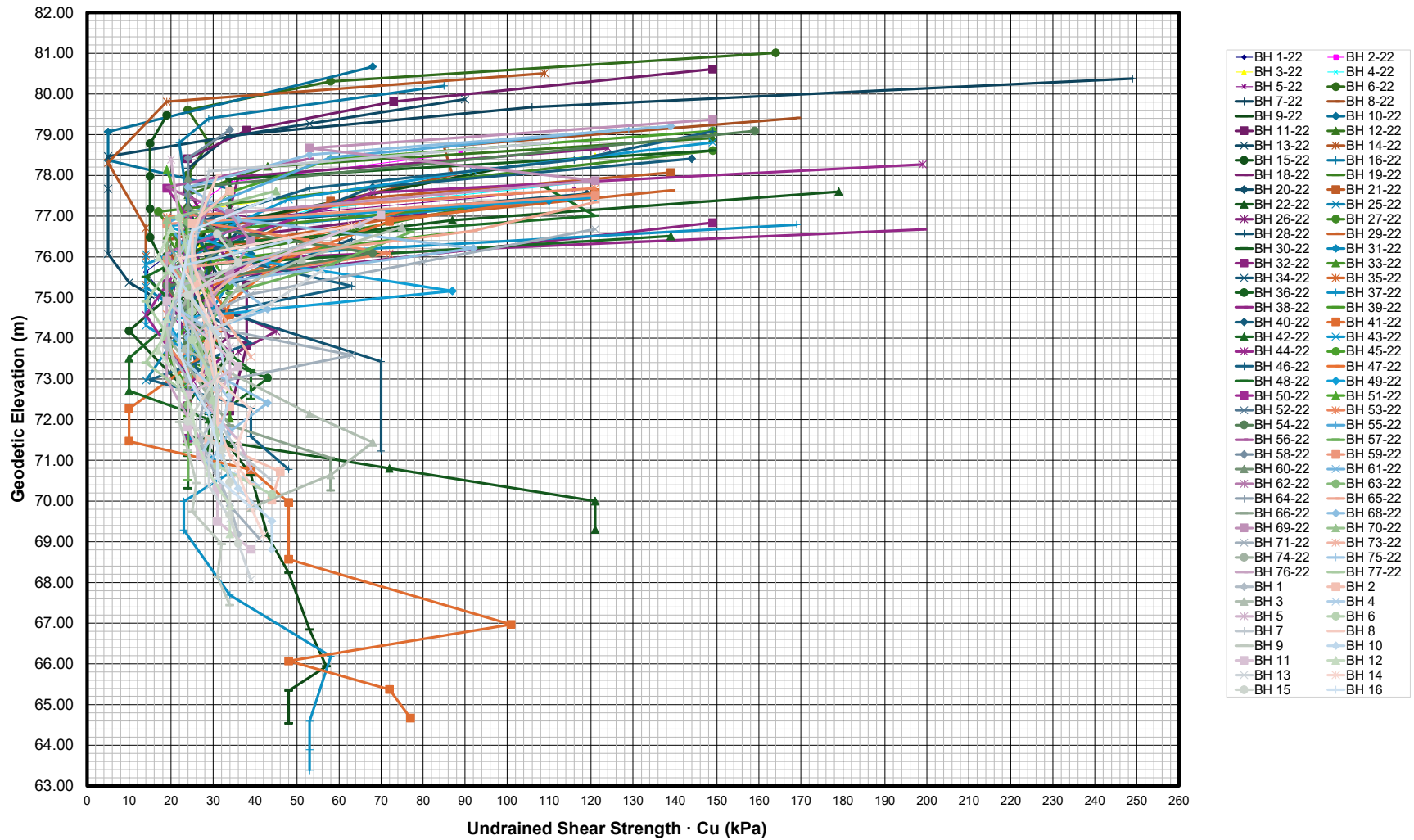
#### MONITORING WELL CONSTRUCTION



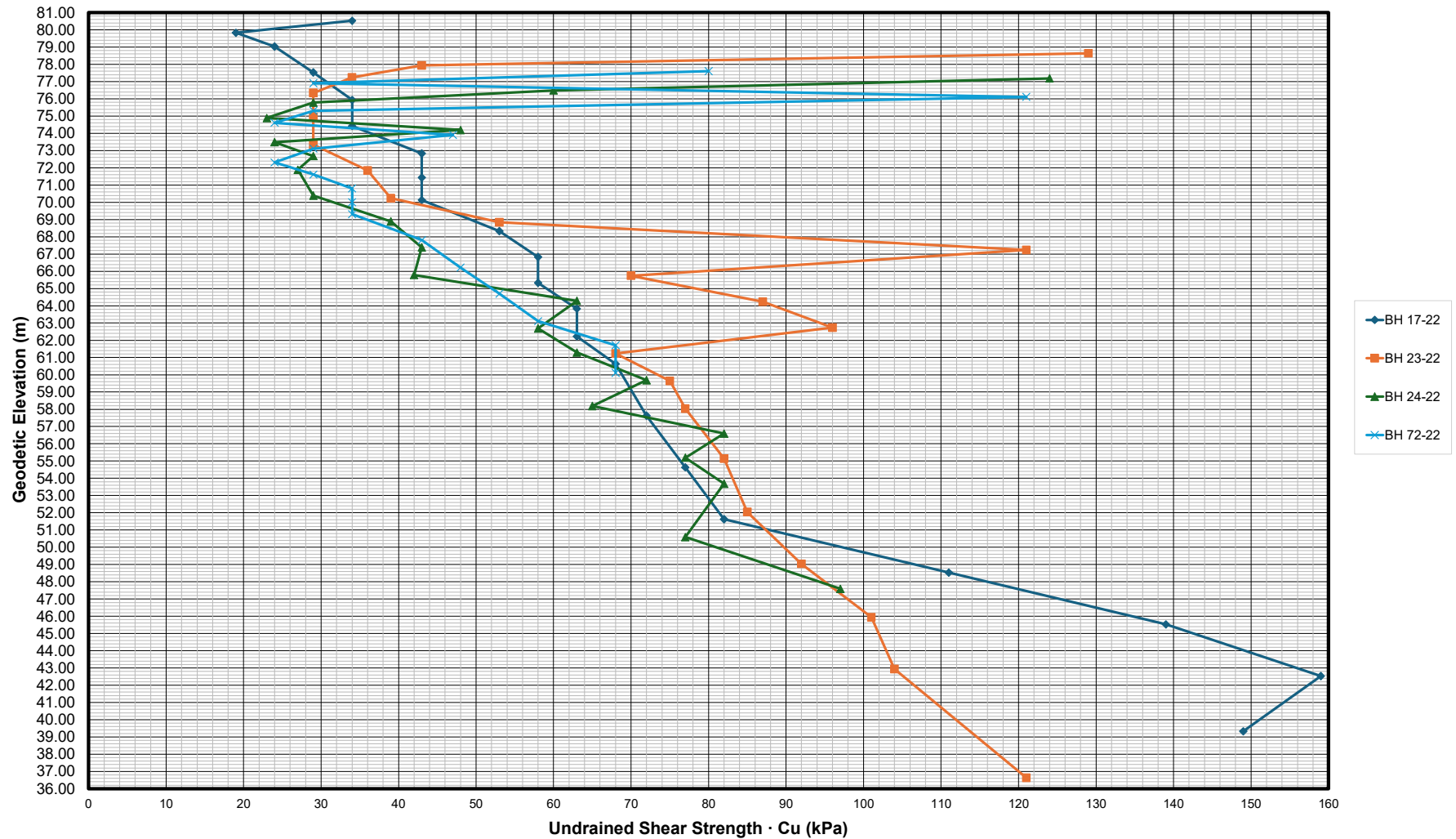
#### PIEZOMETER CONSTRUCTION

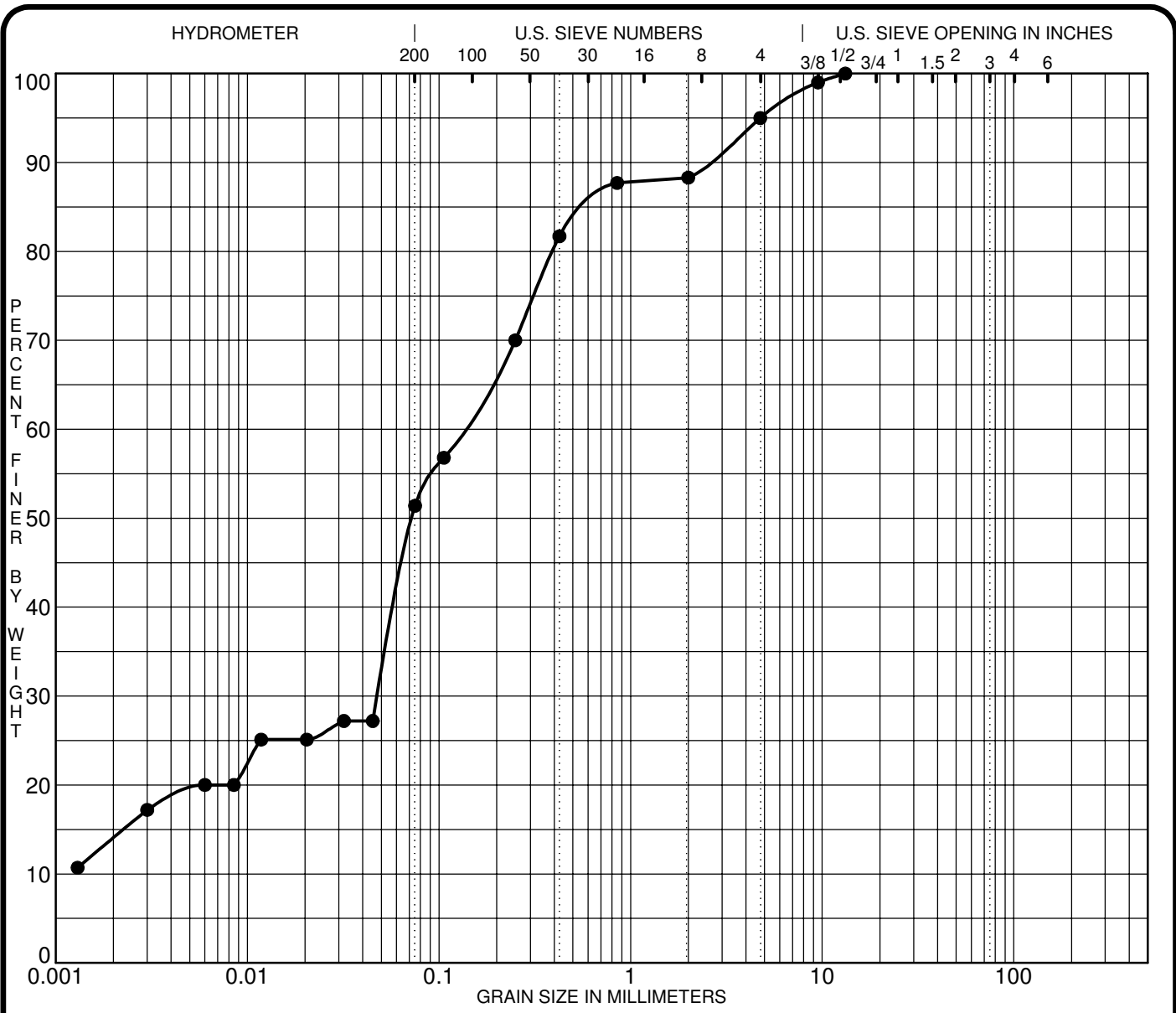


### Summary of Undrained Shear Strength Measurements - Tewin Lands



### Summary of Undrained Shear Strength Measurements - Boreholes to Bedrock - Tewin Lands





SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

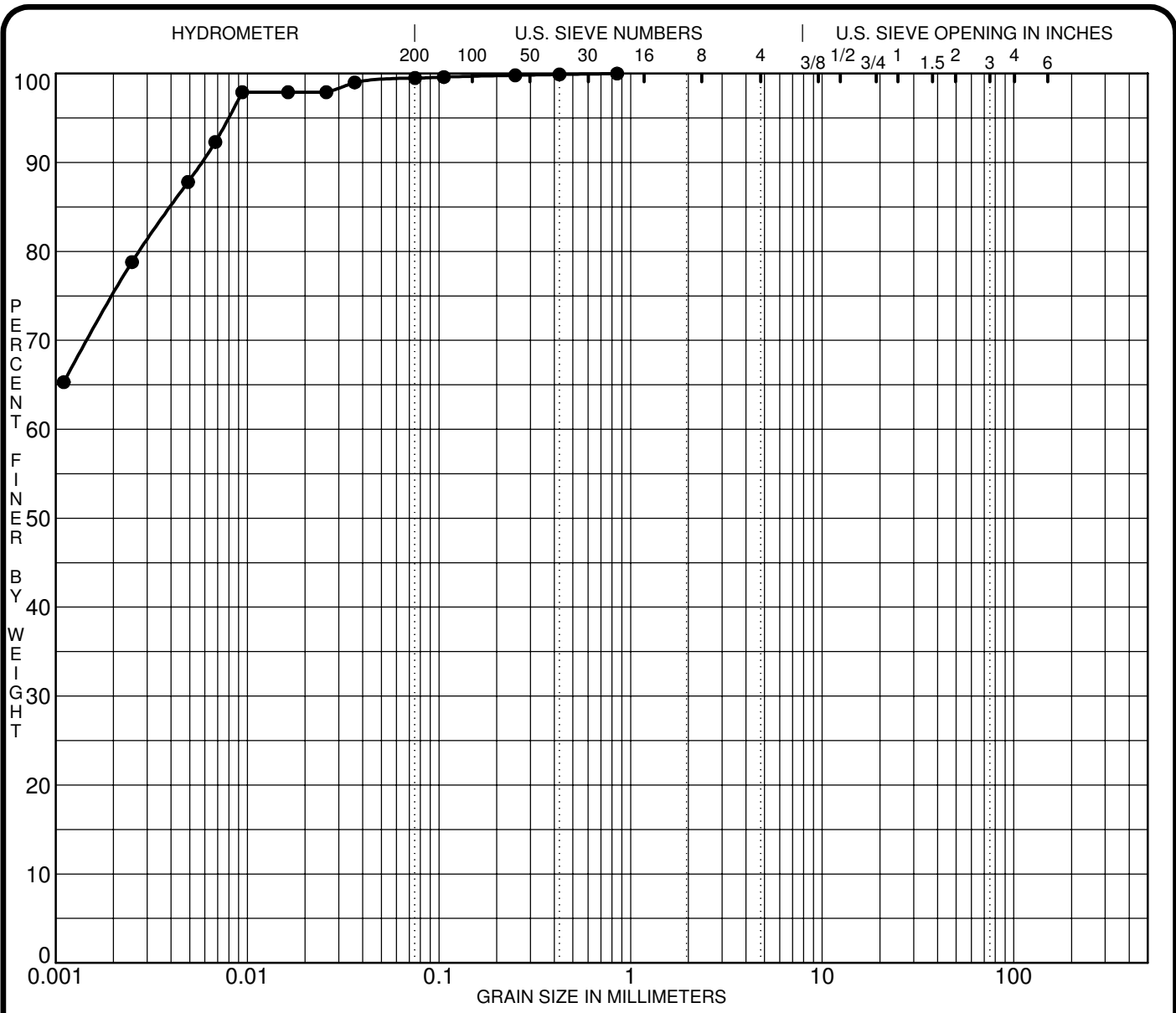
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH 1-22 AU1										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH 1-22 AU1	13.20	0.13	0.048		5.0	43.6	51.4			
☒										
▲										
★										

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 DATE 14 Mar 22

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**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

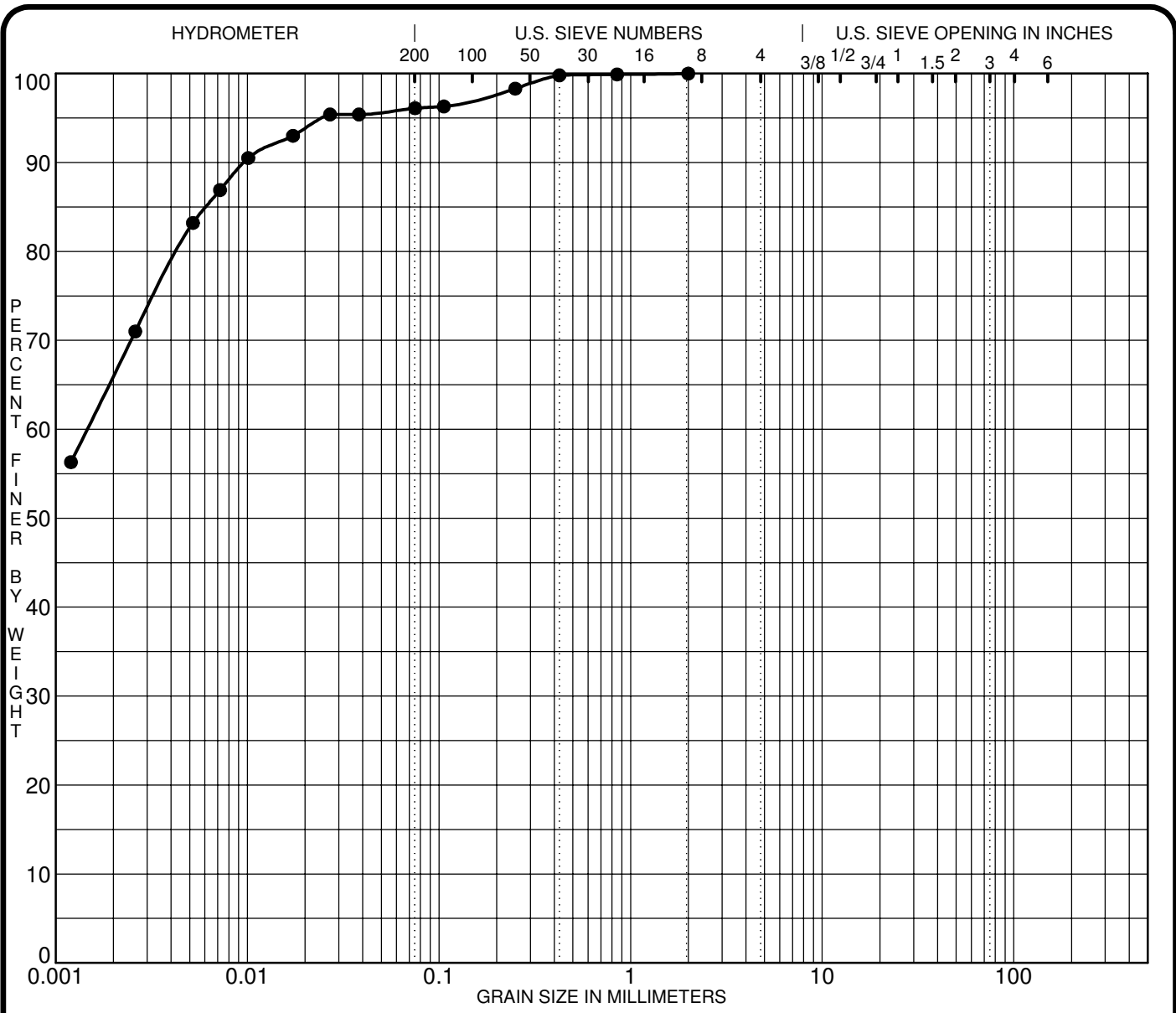
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH 2-22 SS3										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH 2-22 SS3	0.85				0.0	0.5	99.5			
☒										
▲										
★										

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SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

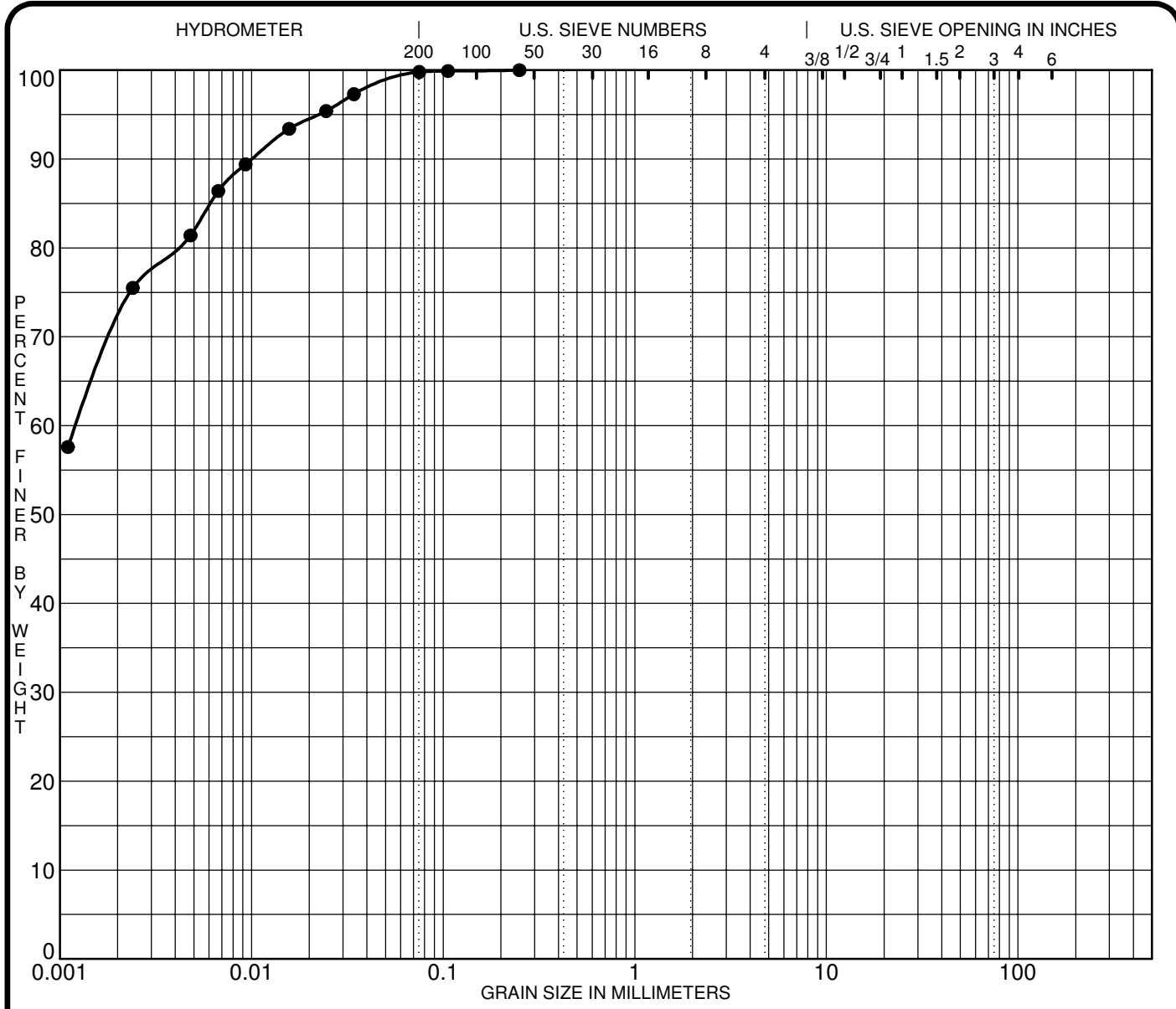
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH 3-22 SS4										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH 3-22 SS4	2.00	0.00			0.0	3.9	96.1			
☒										
▲										
★										

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**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

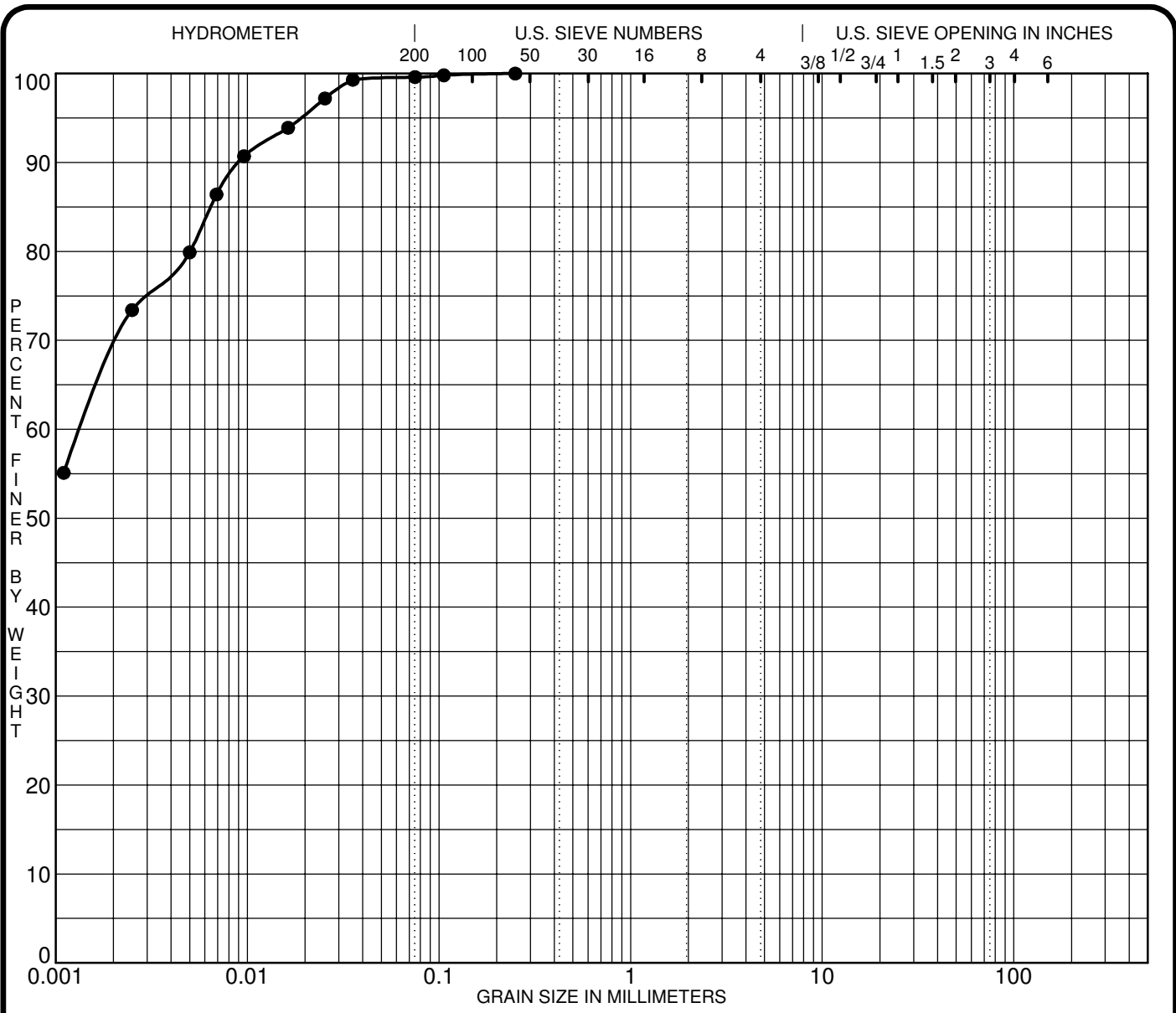
Specimen Identification		Classification				MC%	LL	PL	PI	Cc	Cu
●	BH 4-22 SS4										
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Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	BH 4-22 SS4	0.25	0.00			0.0	0.2	99.8	
☒									
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SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

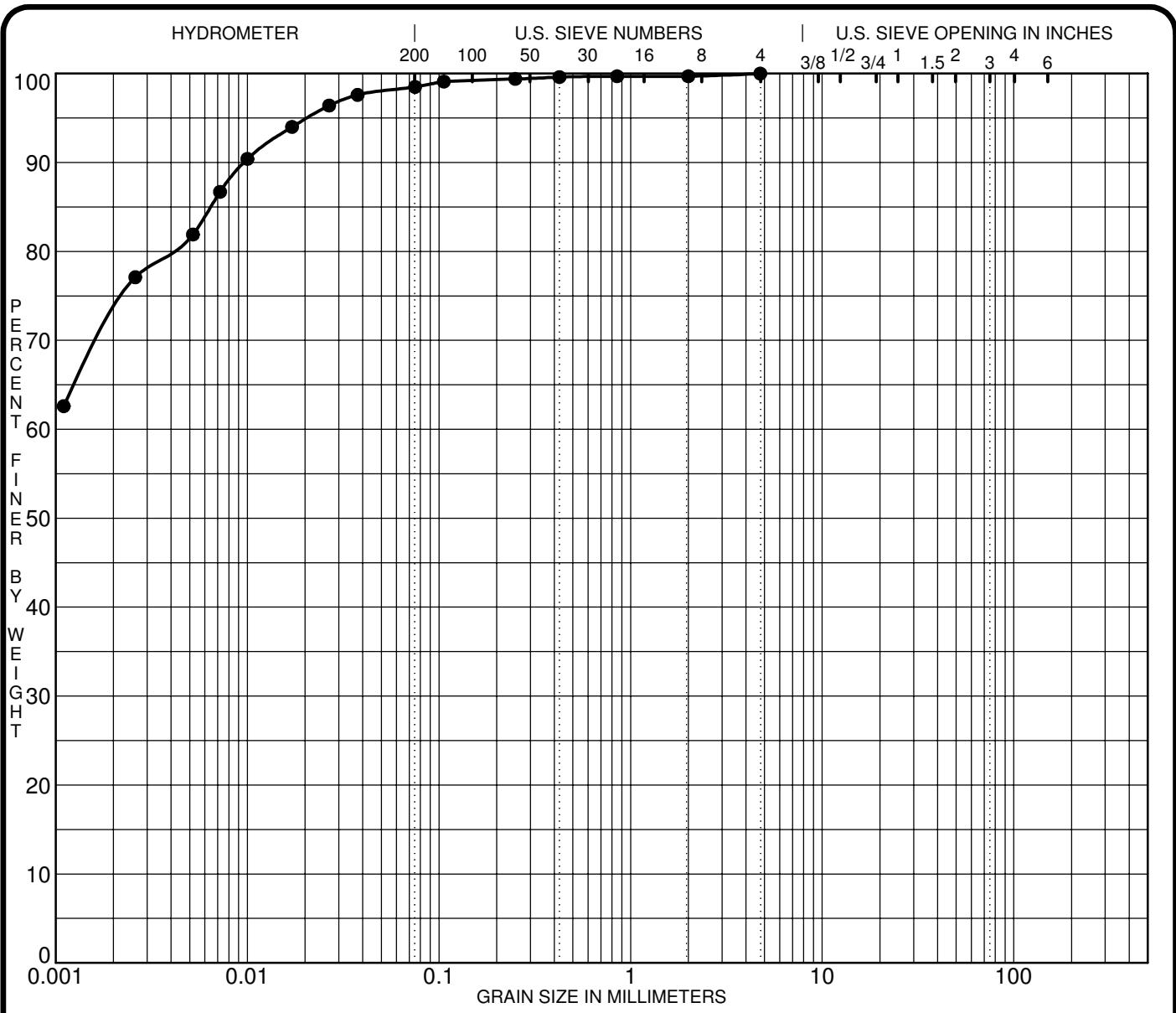
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH 5-22 SS3										
☒										
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Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH 5-22 SS3	0.25	0.00			0.0	0.4	99.6			
☒										
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**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

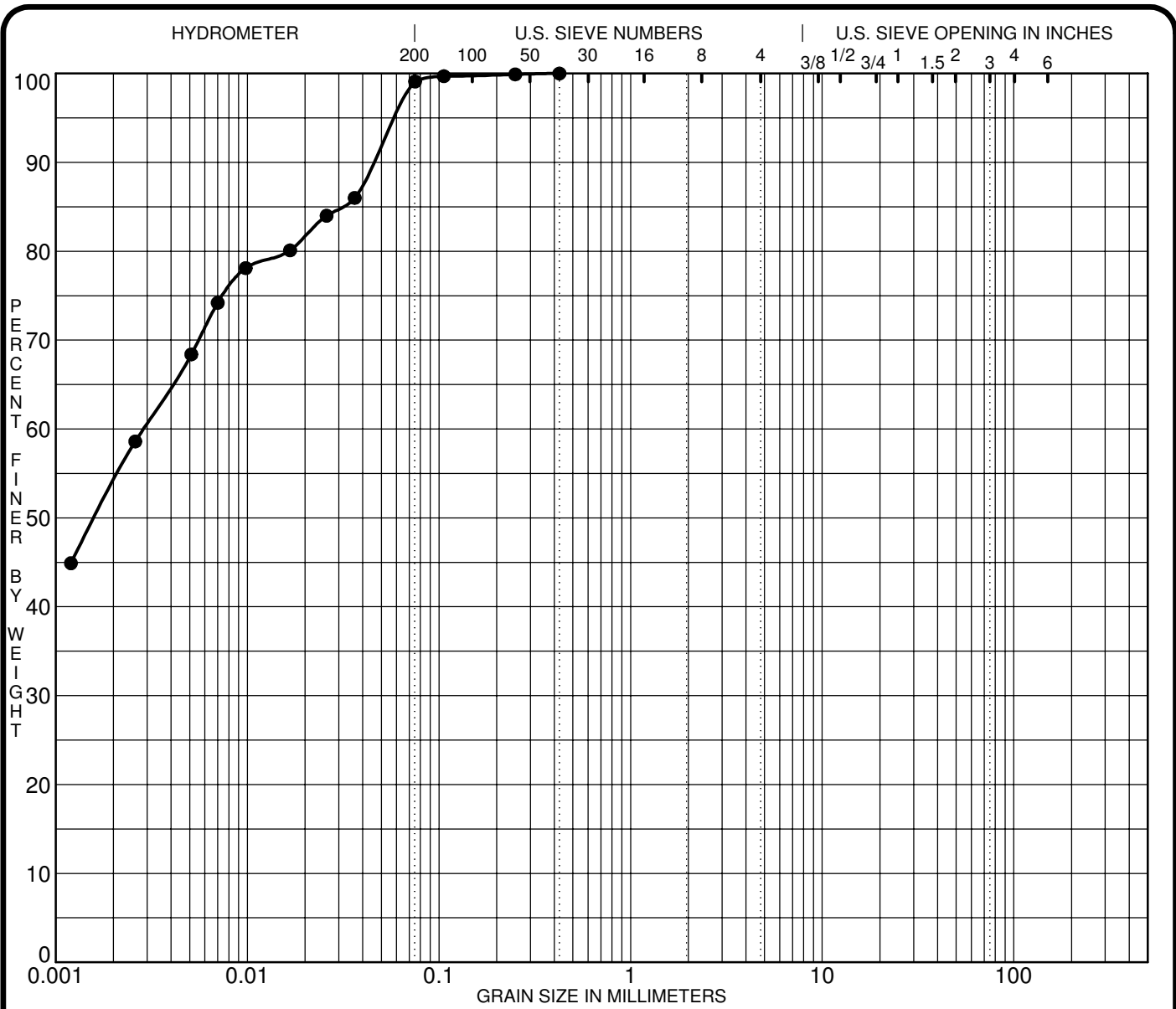
Specimen Identification	Classification					MC%	LL	PL	PI	Cc	Cu
● BH 6-22 SS3	CH - Inorganic clays of high plasticity						60	30	30		
☒											
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★											
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay			
● BH 6-22 SS3	4.75				0.0	1.5	98.5				
☒											
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**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

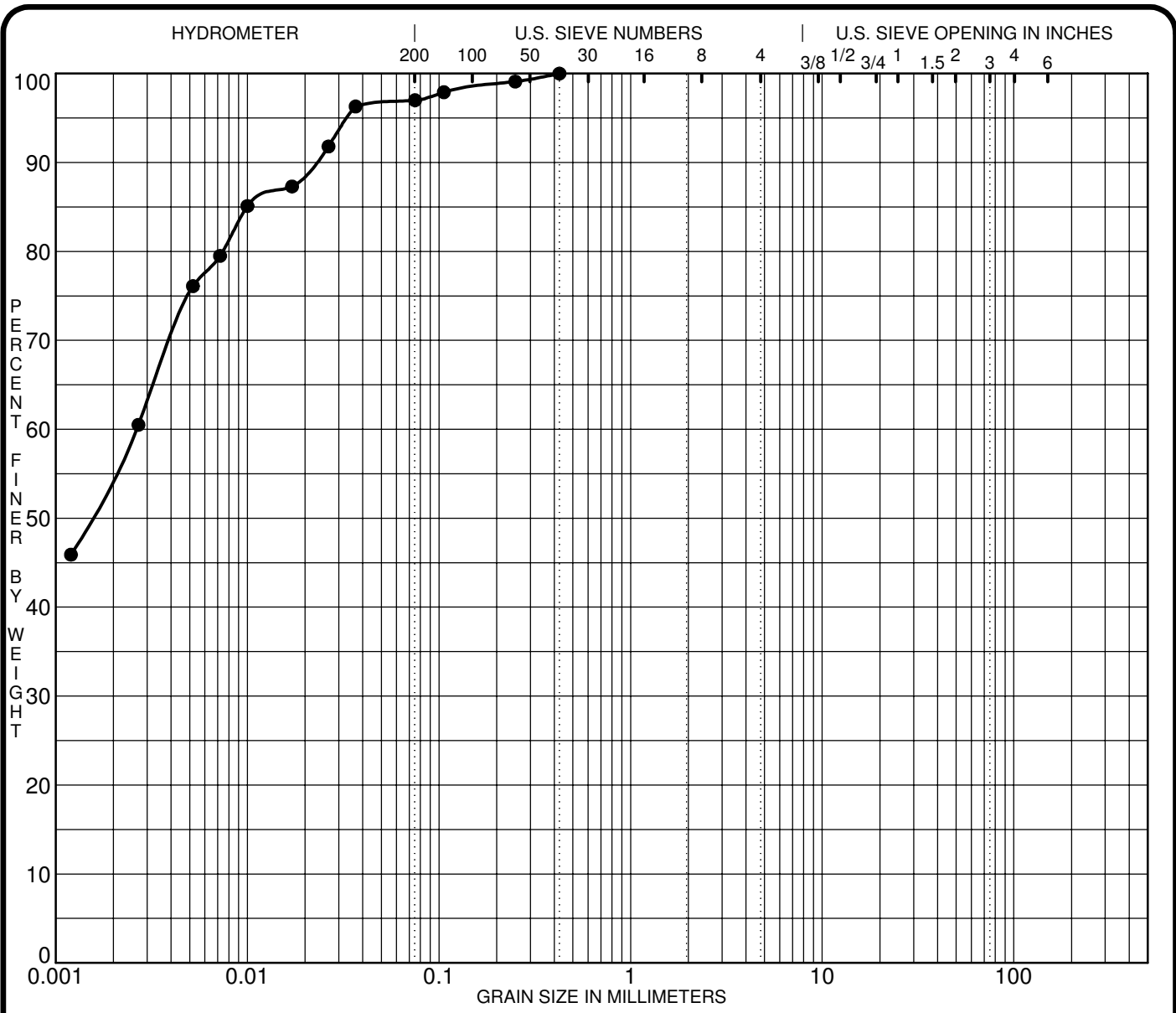
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH 7-22 SS3										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH 7-22 SS3	0.43	0.00			0.0	0.9	99.1			
☒										
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★										

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**GRAIN SIZE  
 DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

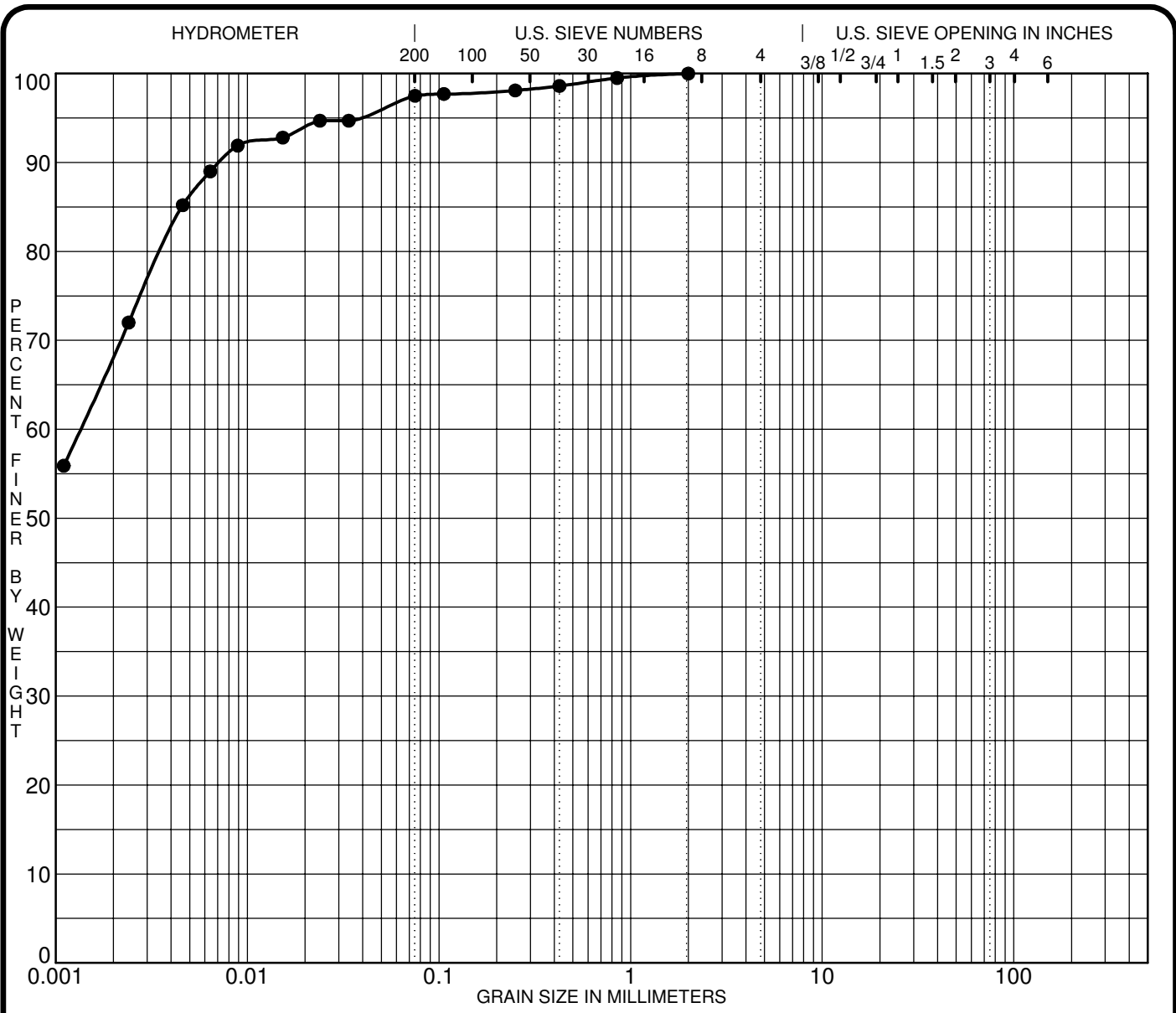
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH 8-22 SS3										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH 8-22 SS3	0.43	0.00			0.0	3.0	97.0			
☒										
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**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

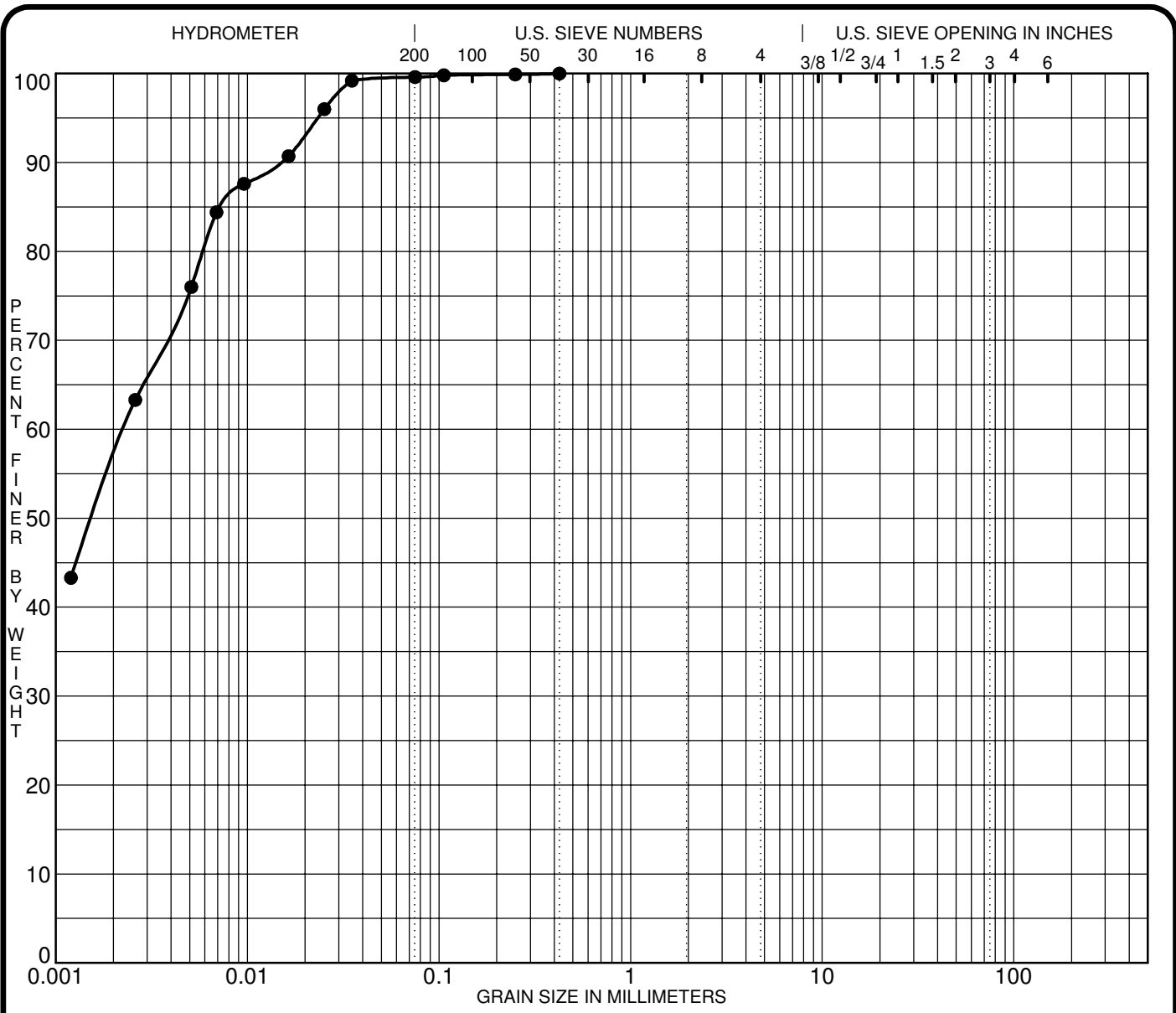
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH 9-22 SS9										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH 9-22 SS9	2.00	0.00			0.0	2.5	97.5			
☒										
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★										

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**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH10-22 SS5										
☒										
▲										
★										

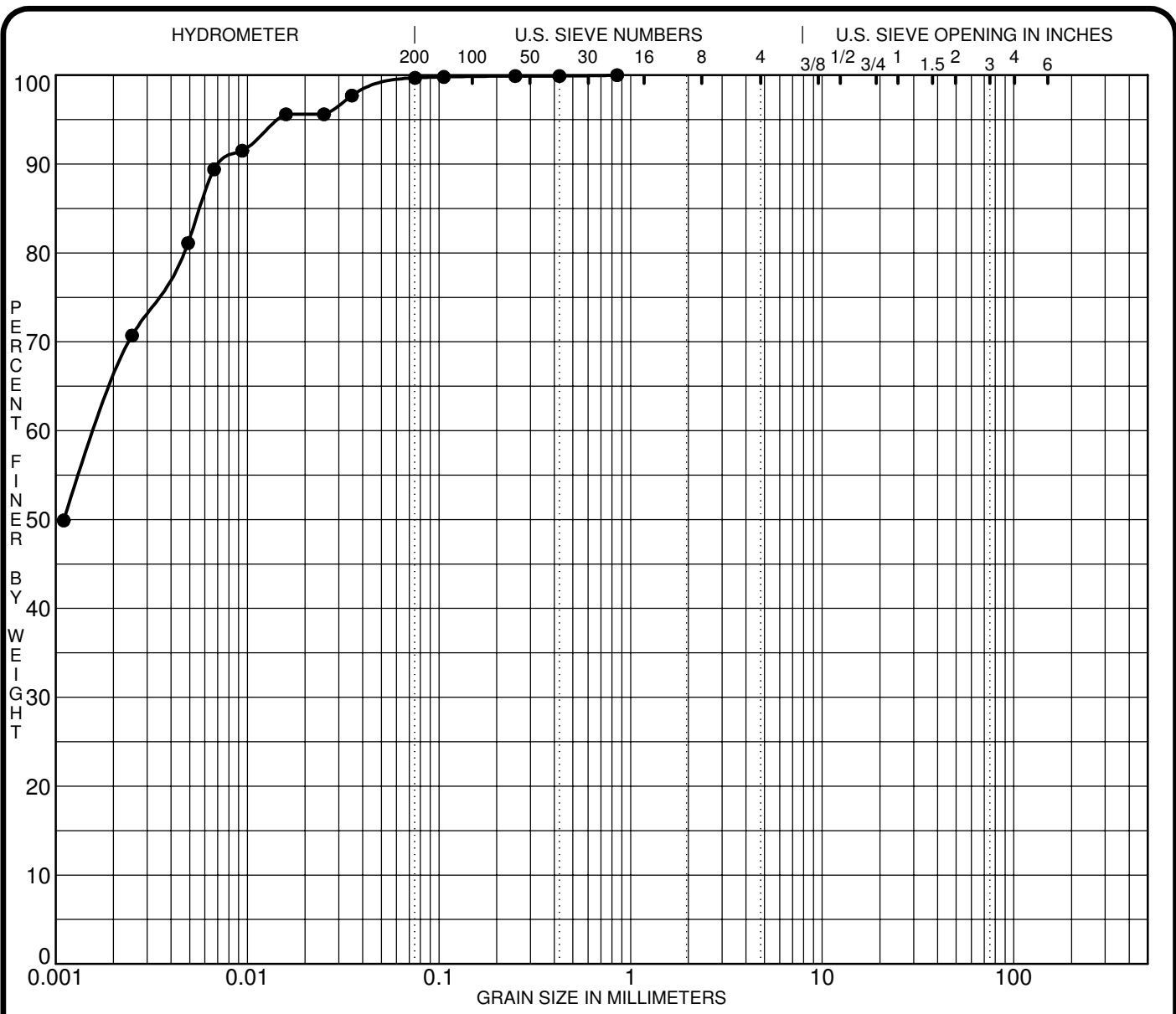
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BH10-22 SS5	0.43	0.00			0.0	0.4	99.6	
☒								
▲								
★								

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**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

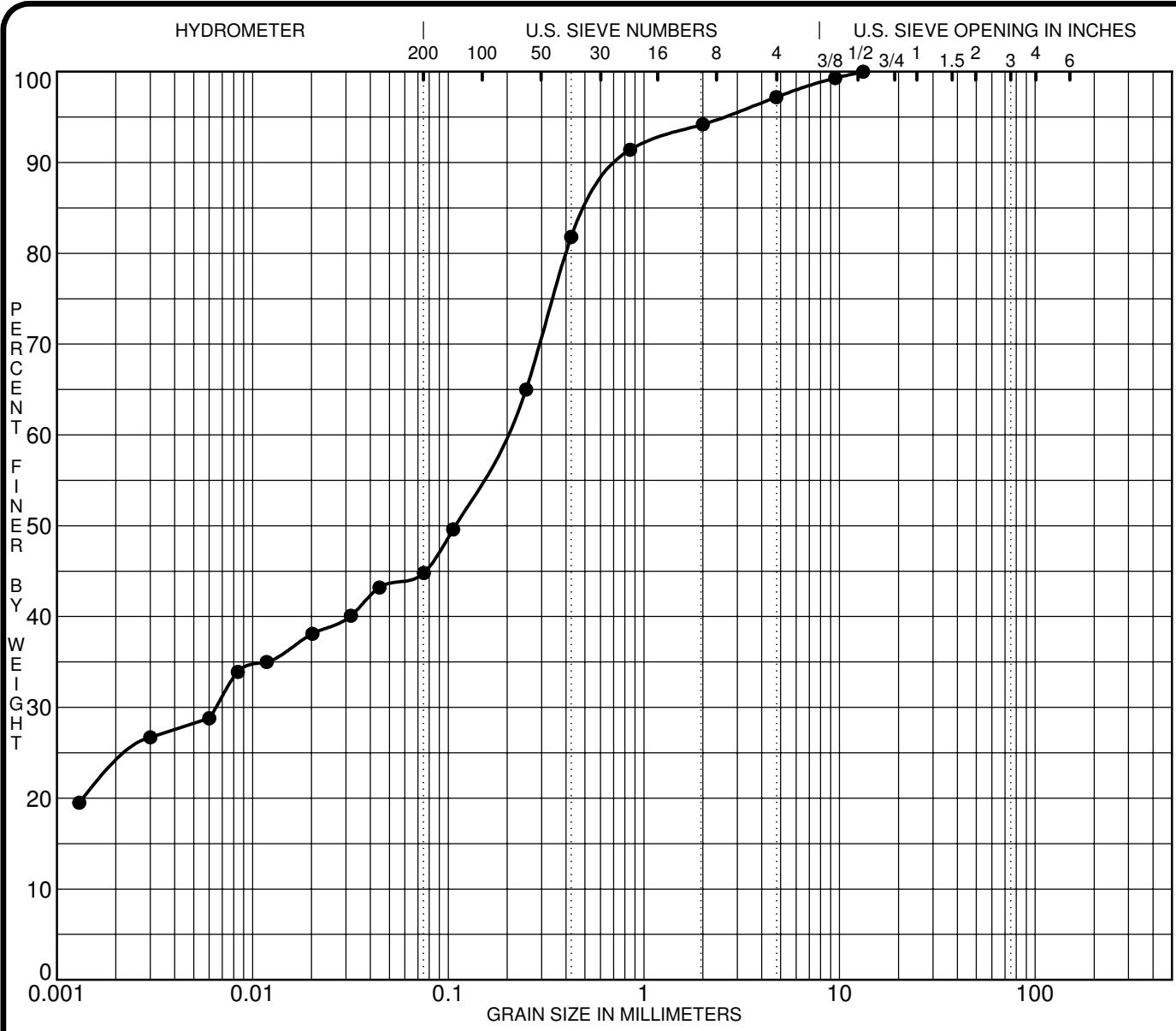
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH11-22 SS6										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH11-22 SS6	0.85	0.00			0.0	0.3	99.7			
☒										
▲										
★										

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# GRAIN SIZE DISTRIBUTION



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● BH12-22 SS1							
☒							
▲							
★							

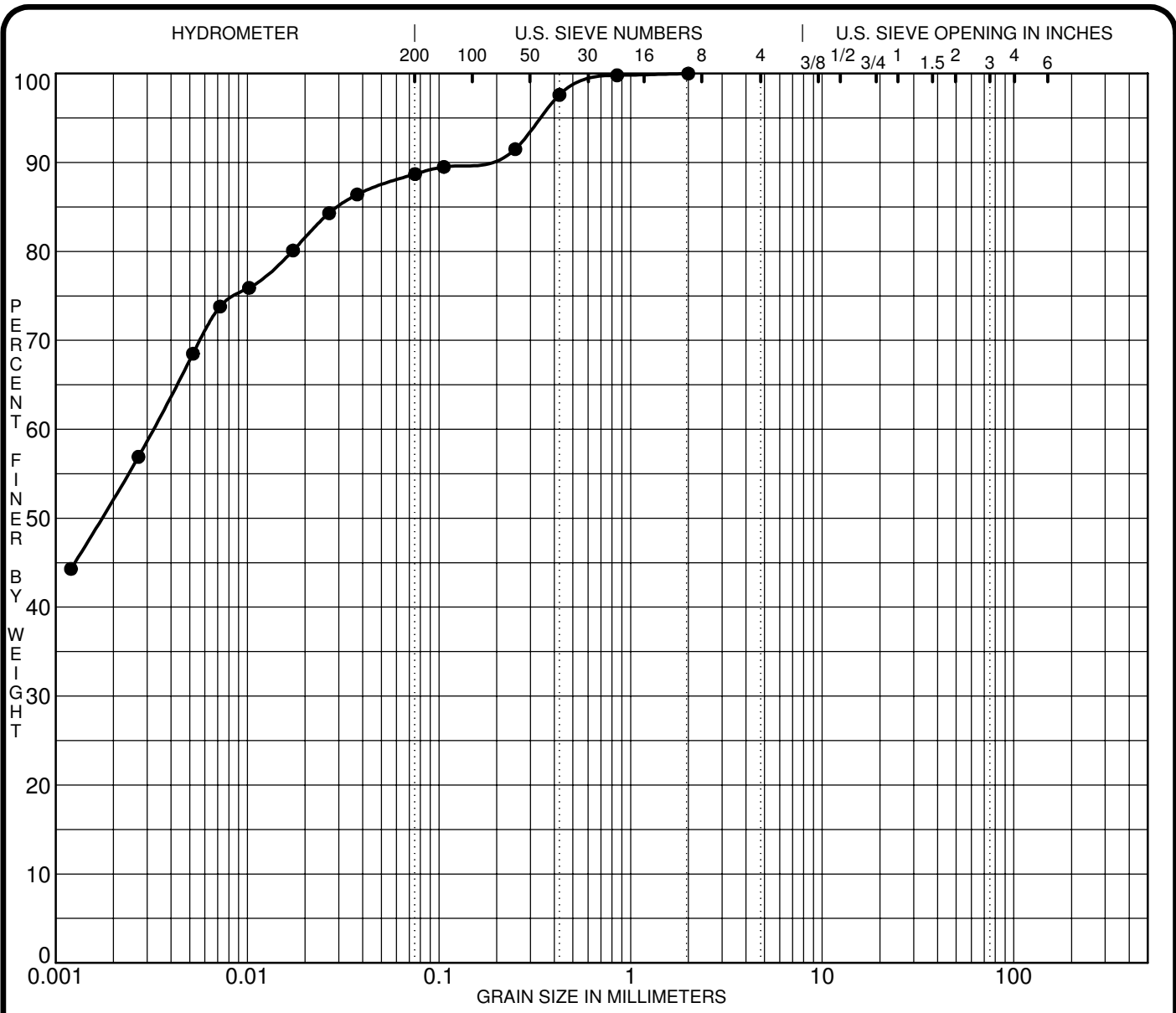
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BH12-22 SS1	13.20	0.19	0.006		2.8	52.4	44.8	
☒								
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**GRAIN SIZE DISTRIBUTION**





SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

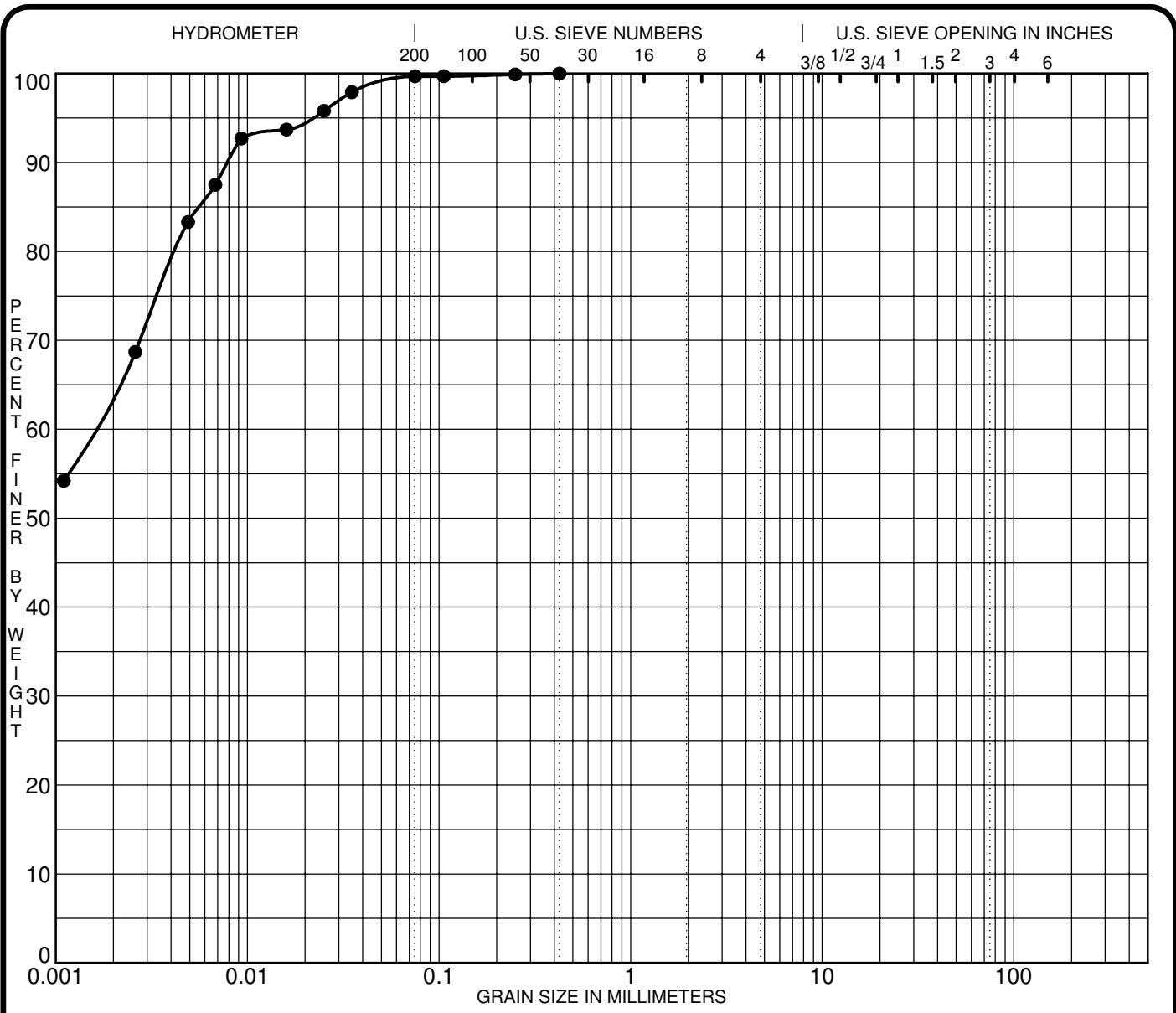
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH12-22 SS2	CL - Inorganic clays of low plasticity					46	21	25		
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH12-22 SS2	2.00	0.00			0.0	11.3	88.7			
☒										
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**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

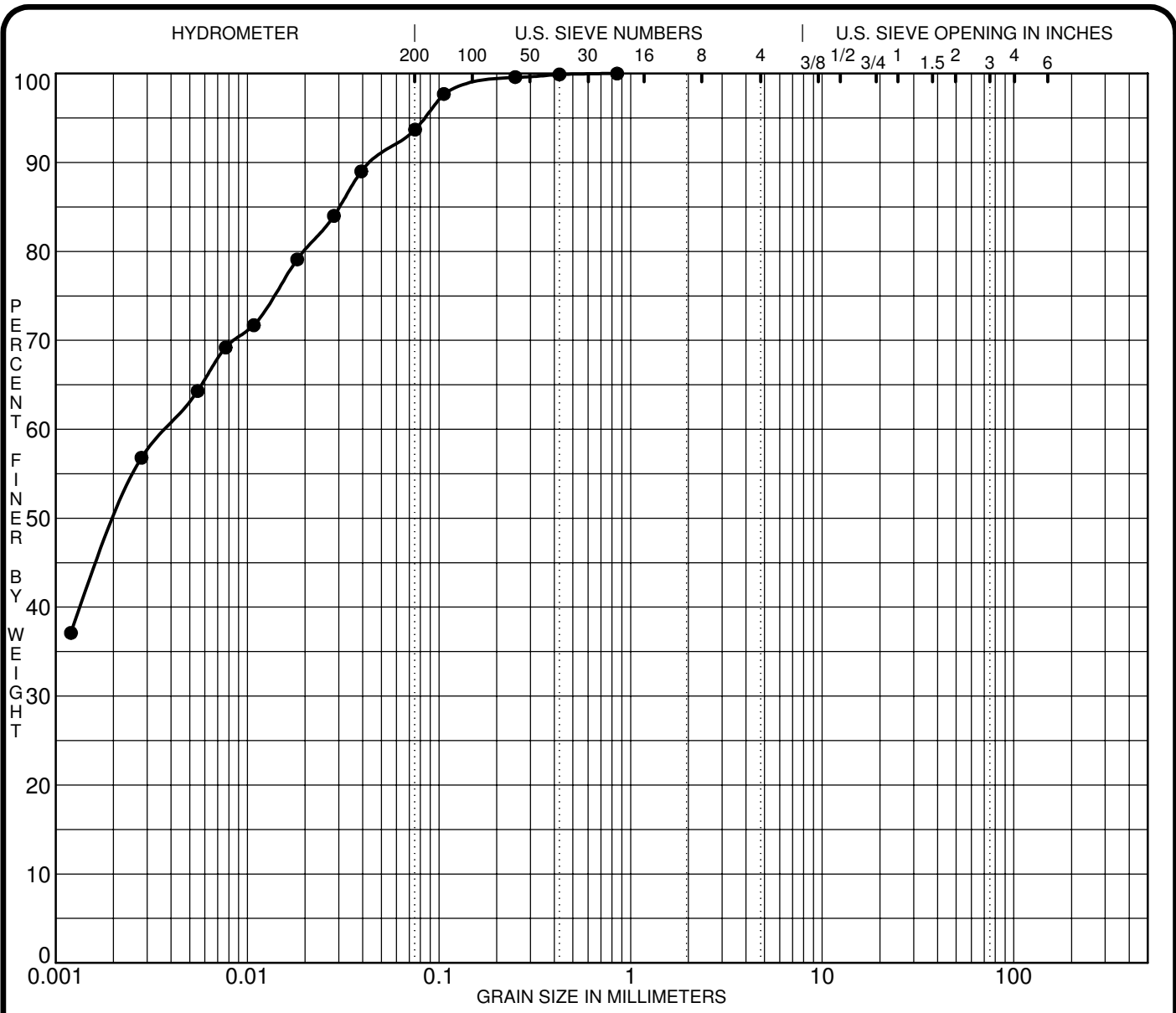
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH13-22 SS4										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH13-22 SS4	0.43	0.00			0.0	0.3	99.7			
☒										
▲										
★										

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**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

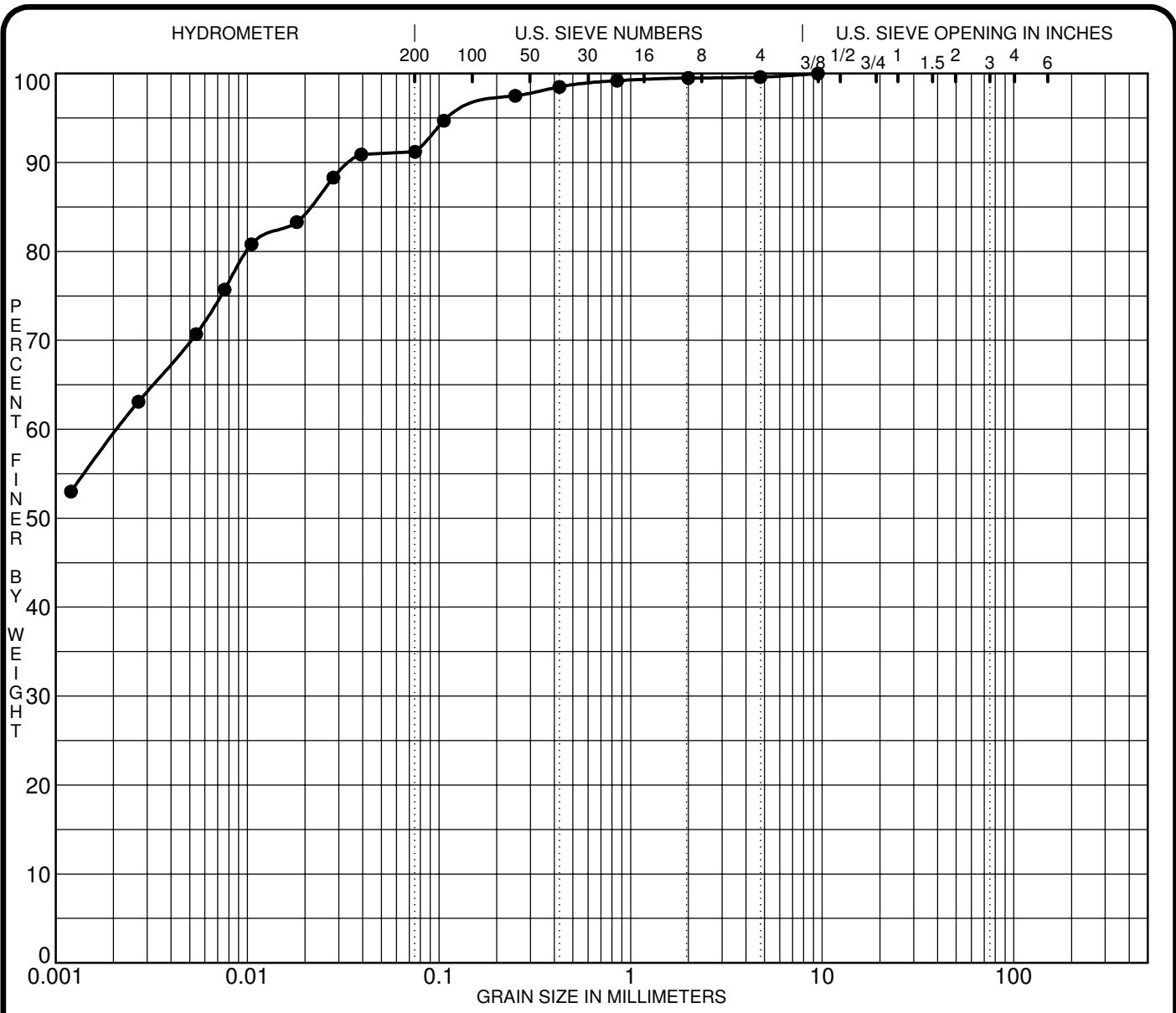
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH14-22 SS3										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH14-22 SS3	0.85	0.00			0.0	6.3	93.7			
☒										
▲										
★										

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**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH15-22 SS3										
☒										
▲										
★										

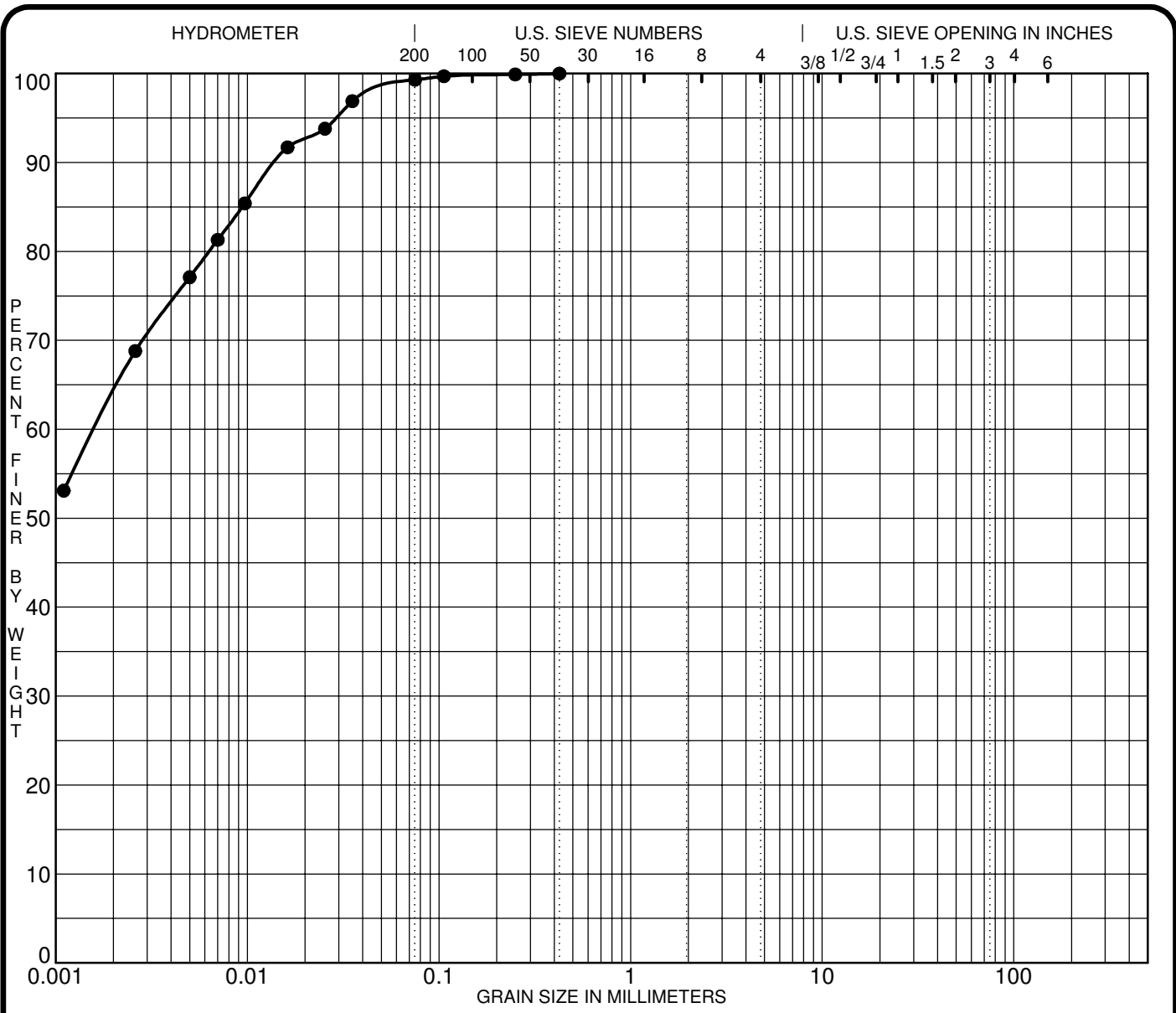
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BH15-22 SS3	9.50	0.00			0.4	8.4	91.2	
☒								
▲								
★								

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 29 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

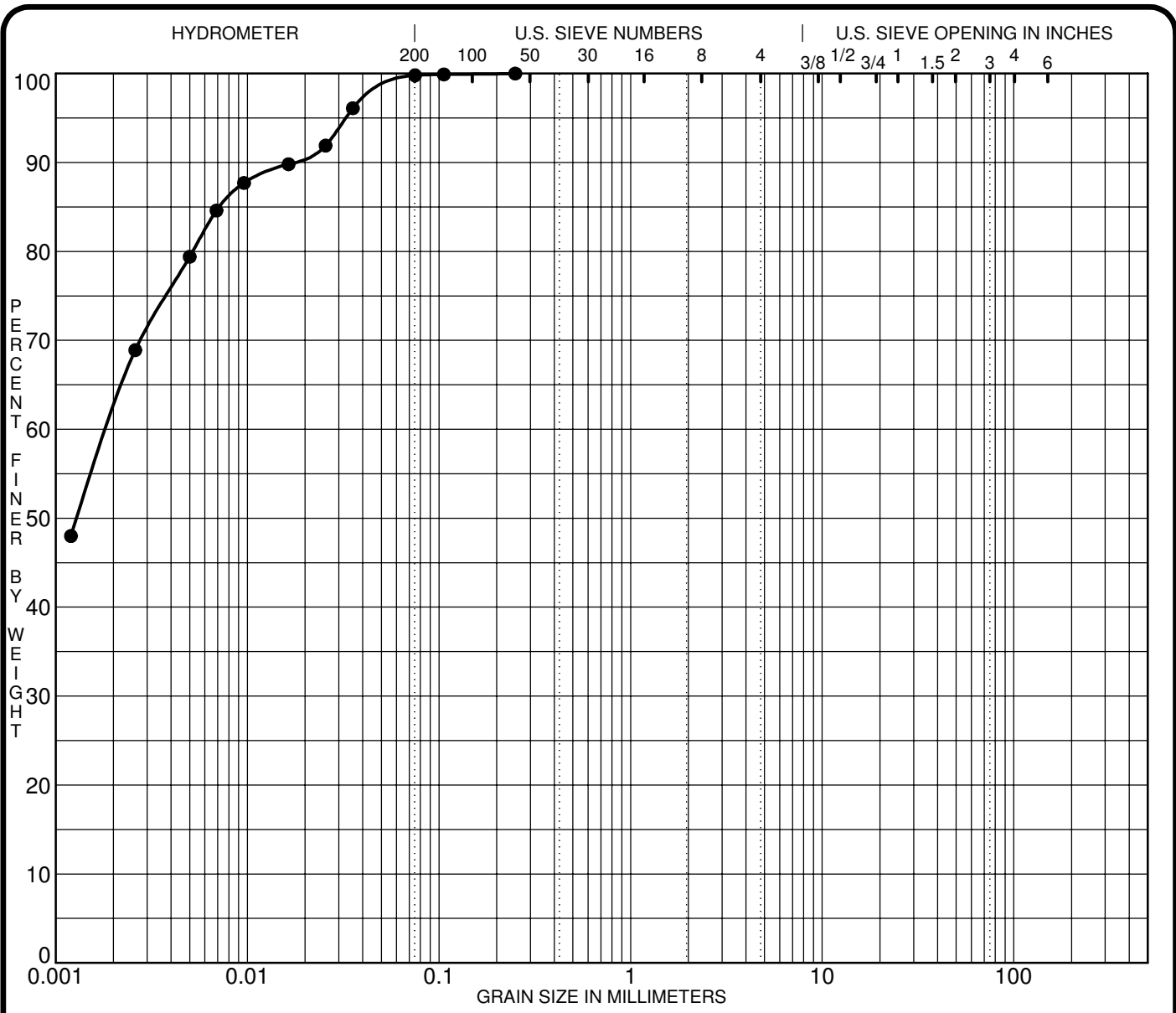
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH16-22 SS3										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH16-22 SS3	0.43	0.00			0.0	0.7	99.3			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 30 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

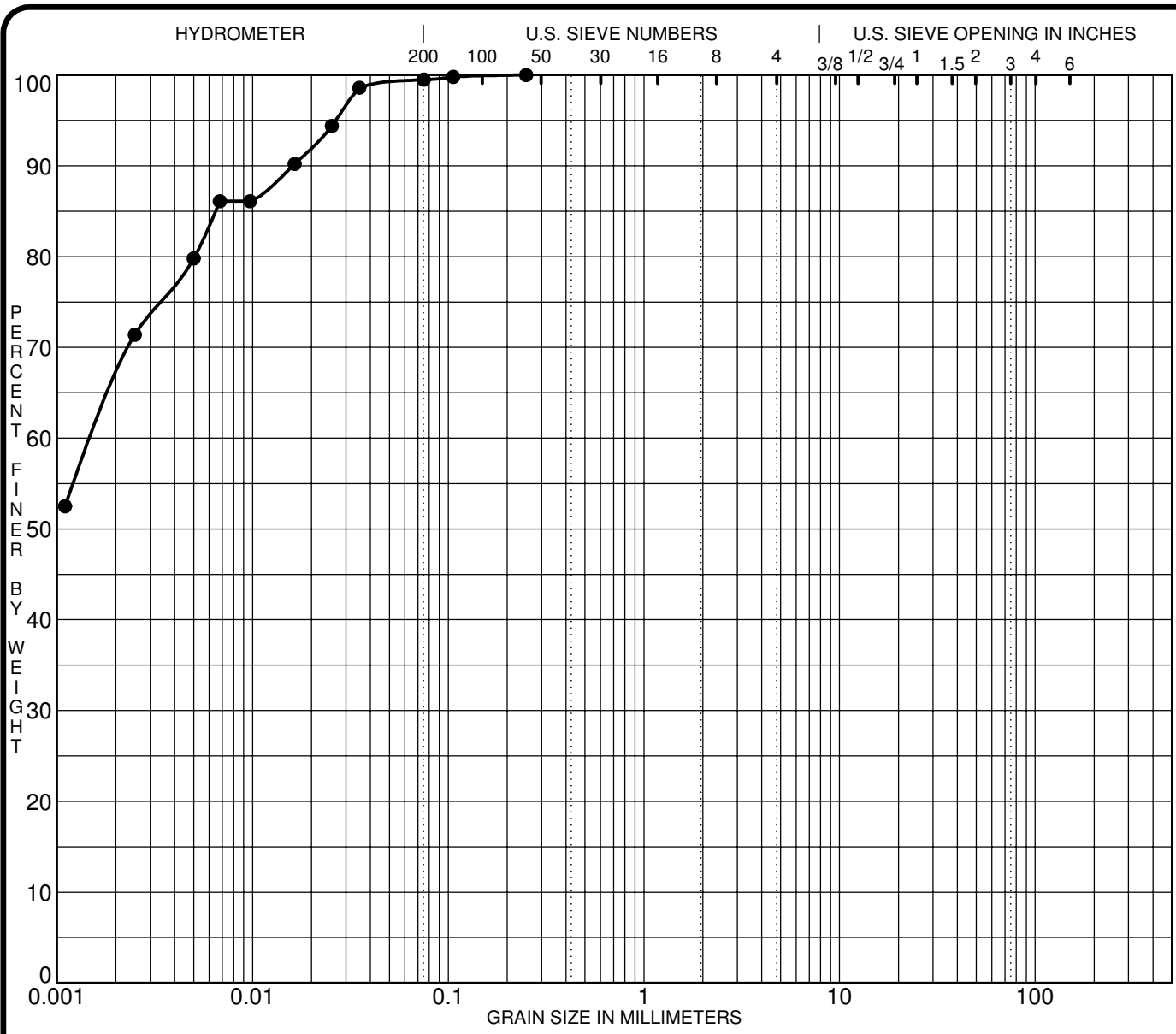
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH18-22 SS7										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH18-22 SS7	0.25	0.00			0.0	0.2	99.8			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 12 Apr 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



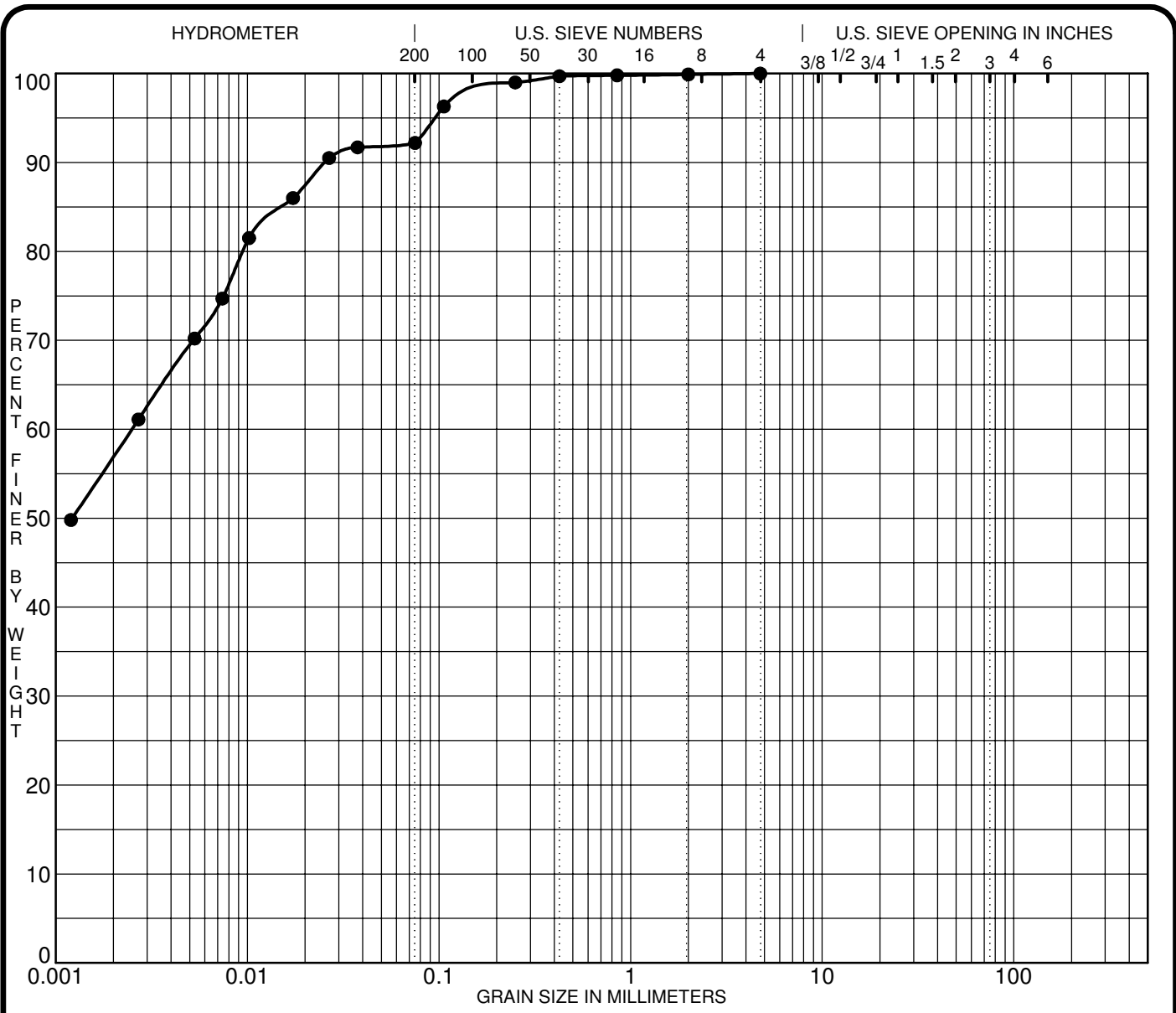
SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH18A-22 SS3										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH18A-22 SS3	0.25	0.00			0.0	0.5	99.5			
☒										
▲										
★										

CLIENT Taggart Investments FILE NO. PG5827  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use DATE 12 Apr 22  
Community Development

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH19-22 SS2										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH19-22 SS2	4.75	0.00			0.0	7.8	92.2			
☒										
▲										
★										

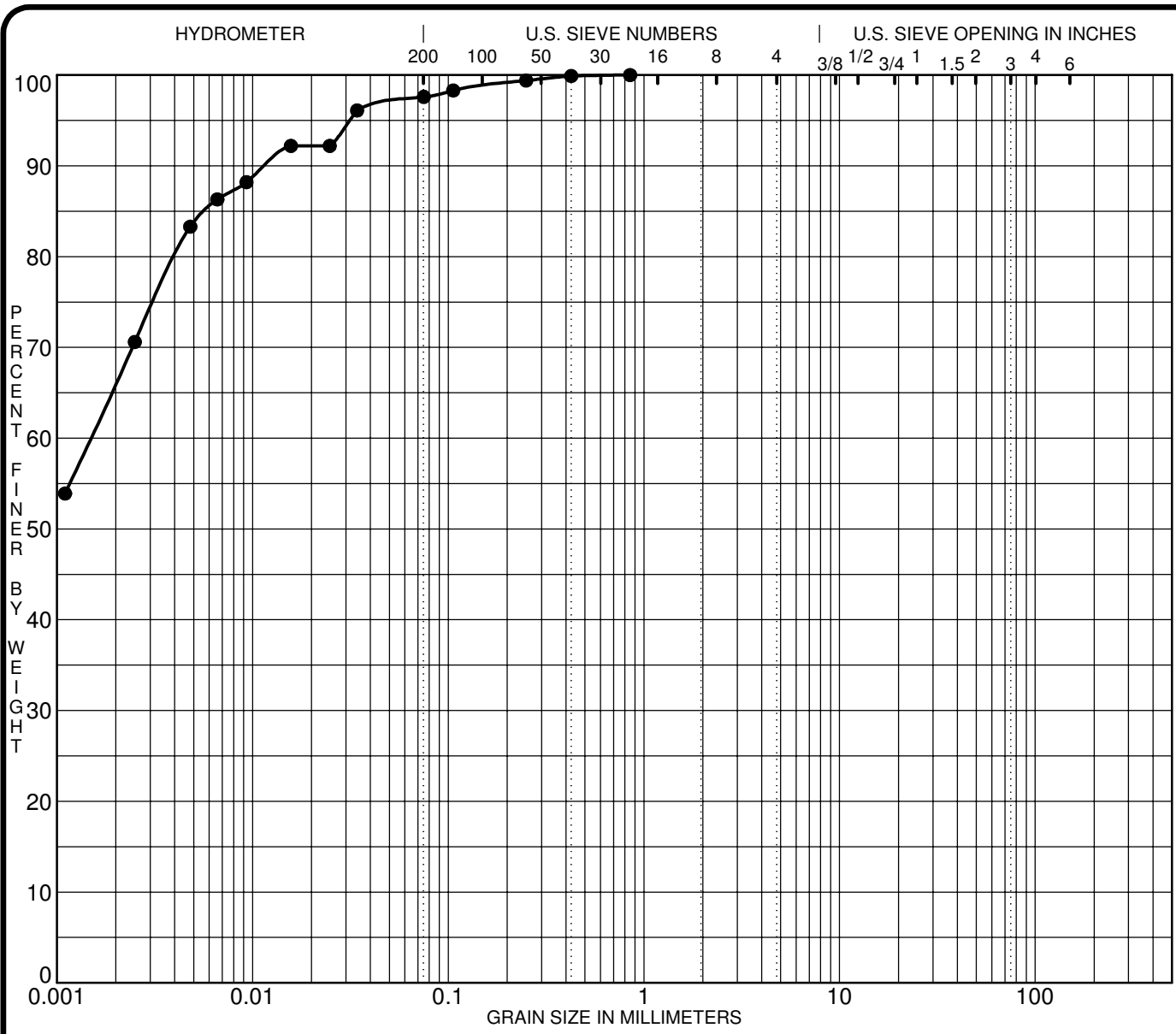
CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 11 Apr 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**





SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

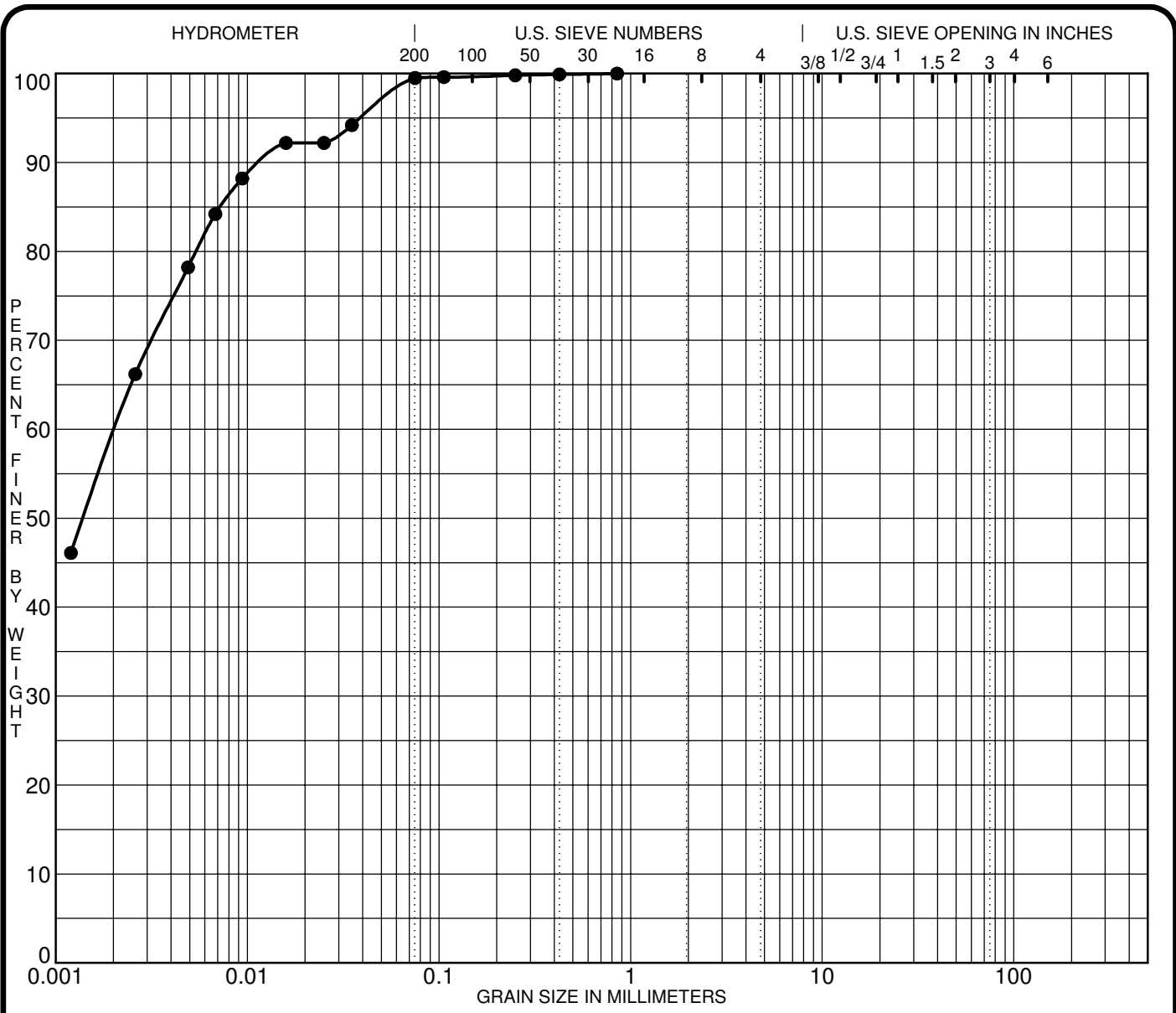
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH20-22 SS3										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH20-22 SS3	0.85	0.00			0.0	2.4	97.6			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 12 Apr 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

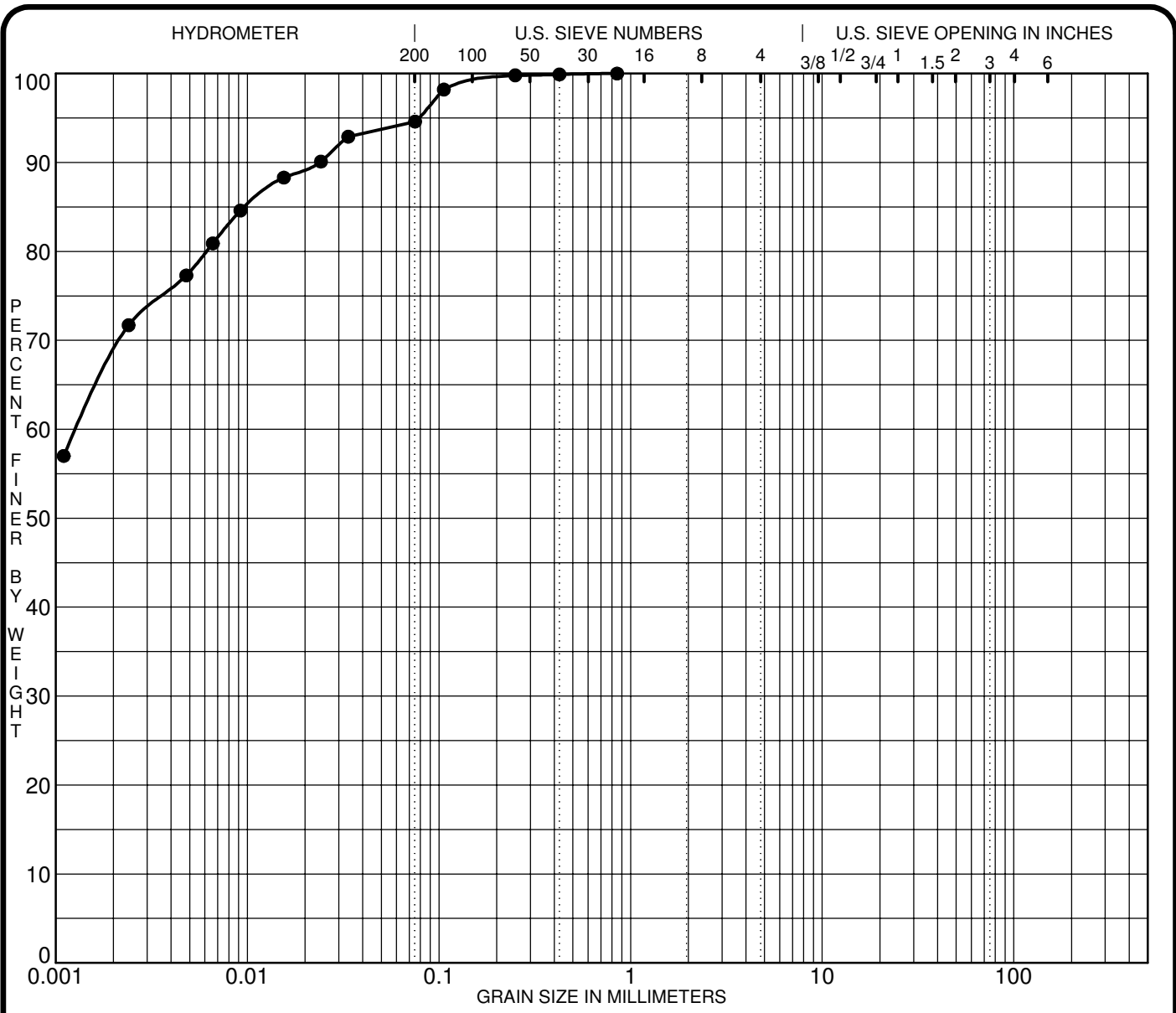
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH22-22 SS12										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH22-22 SS12	0.85	0.00			0.0	0.5	99.5			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 8 Apr 22

**pater-songgroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

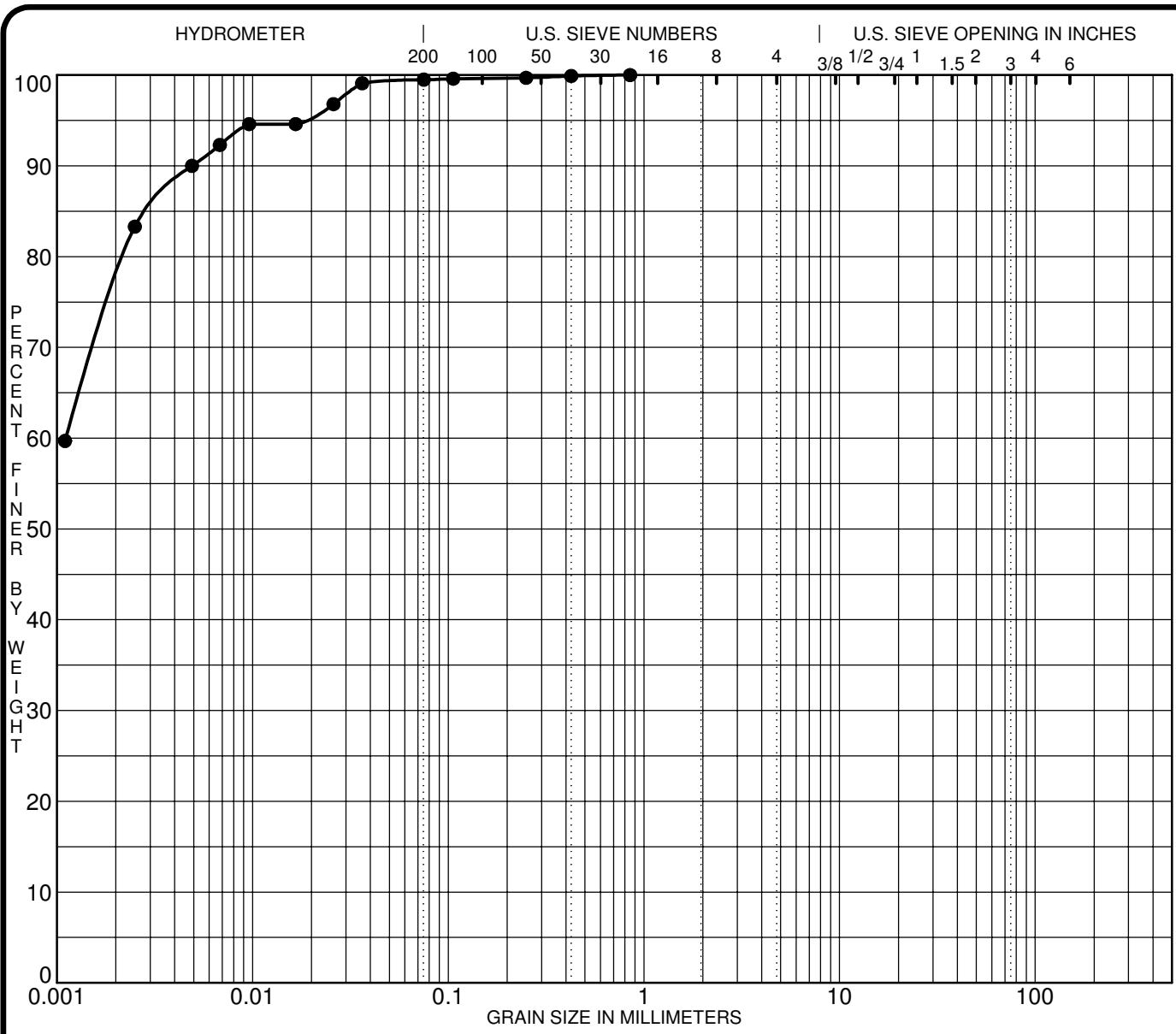
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH22A-22 SS2										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH22A-22 SS2	0.85	0.00			0.0	5.4	94.6			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 11 Apr 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

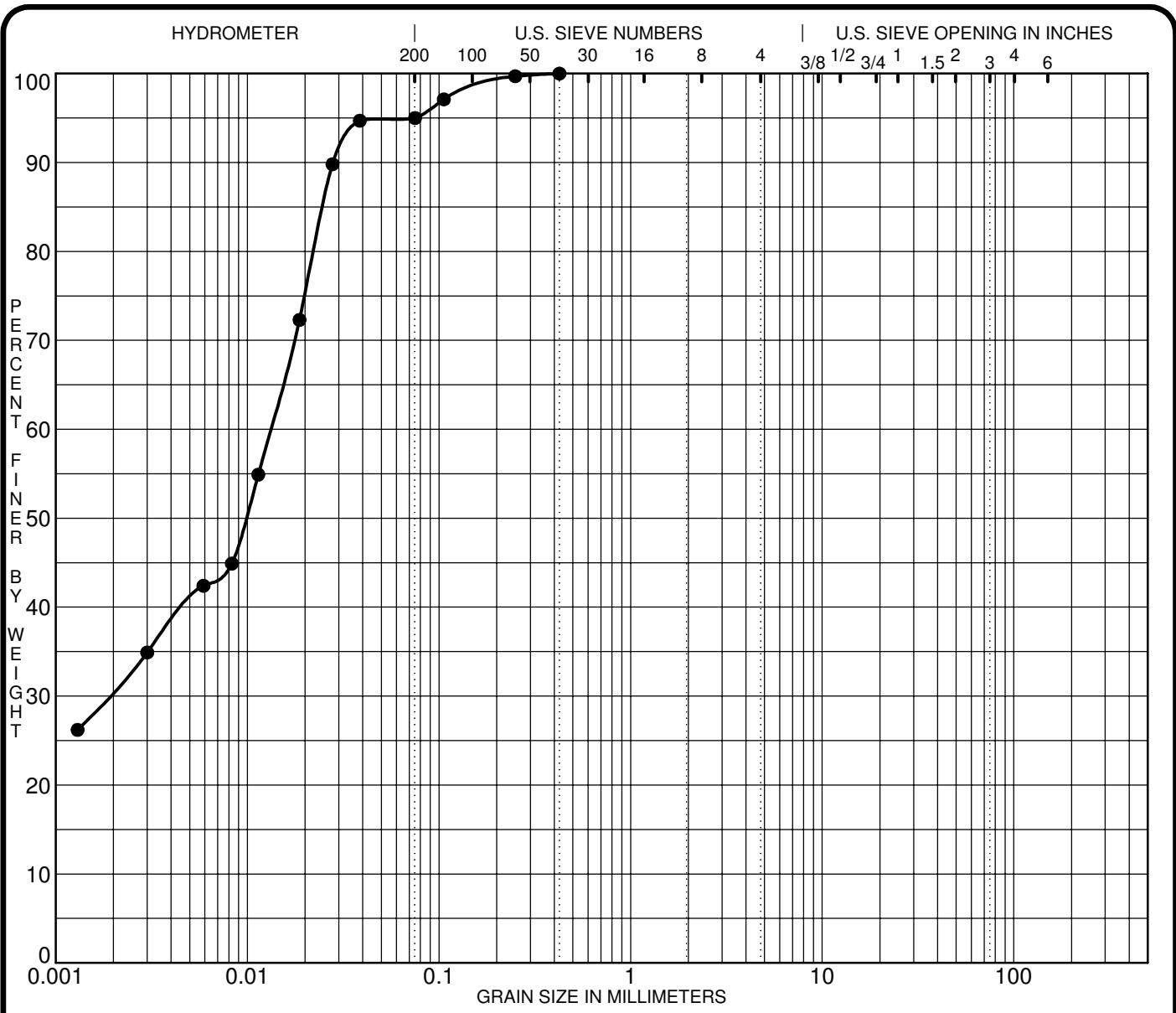
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH23-22 SS3										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH23-22 SS3	0.85	0.00			0.0	0.5	99.5			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 6 Jun 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

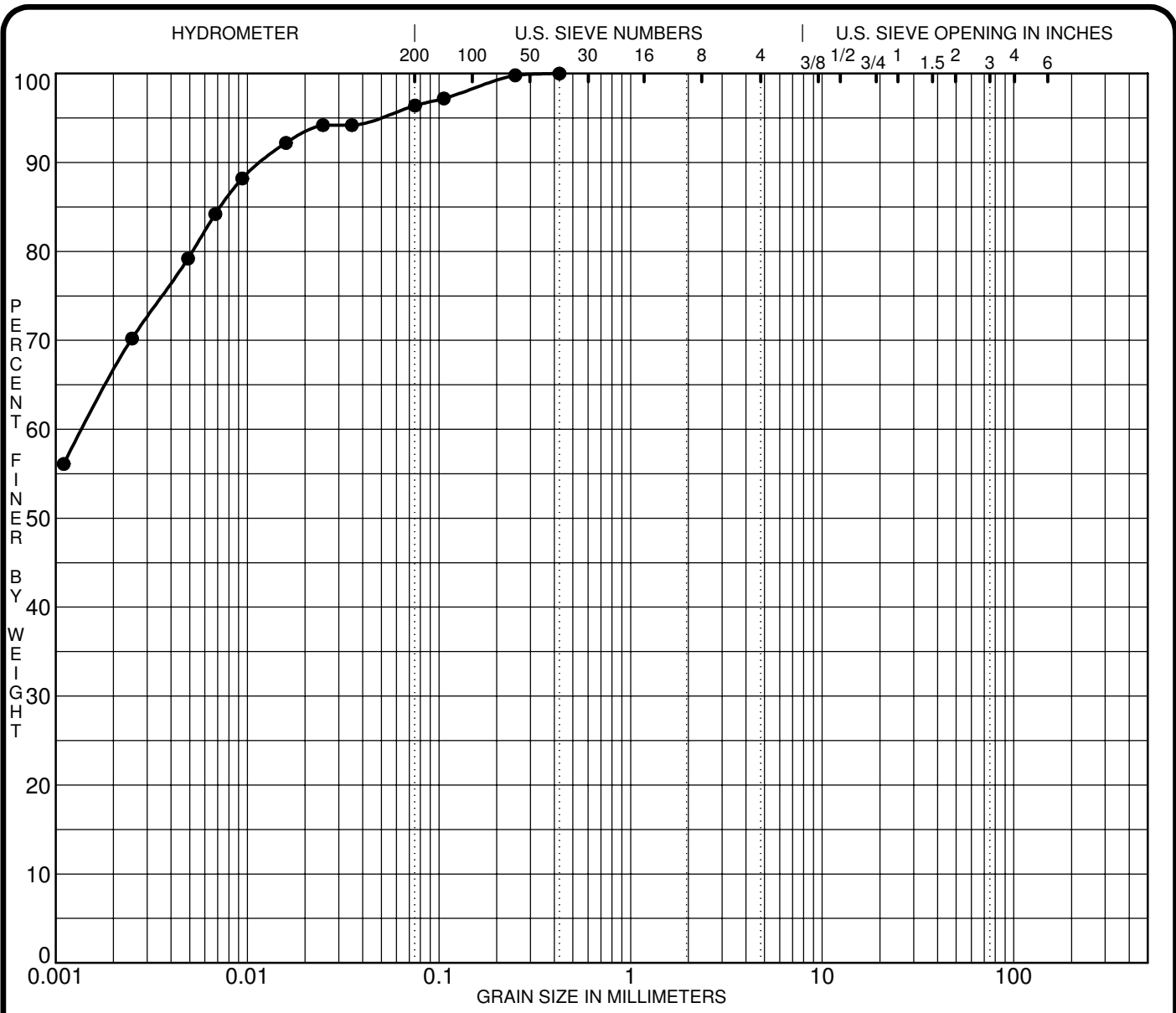
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH24-22										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH24-22	0.43	0.01	0.002		0.0	5.0	95.0			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 1 Jun 22

**pater-song** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH26-22 SS5										
☒										
▲										
★										

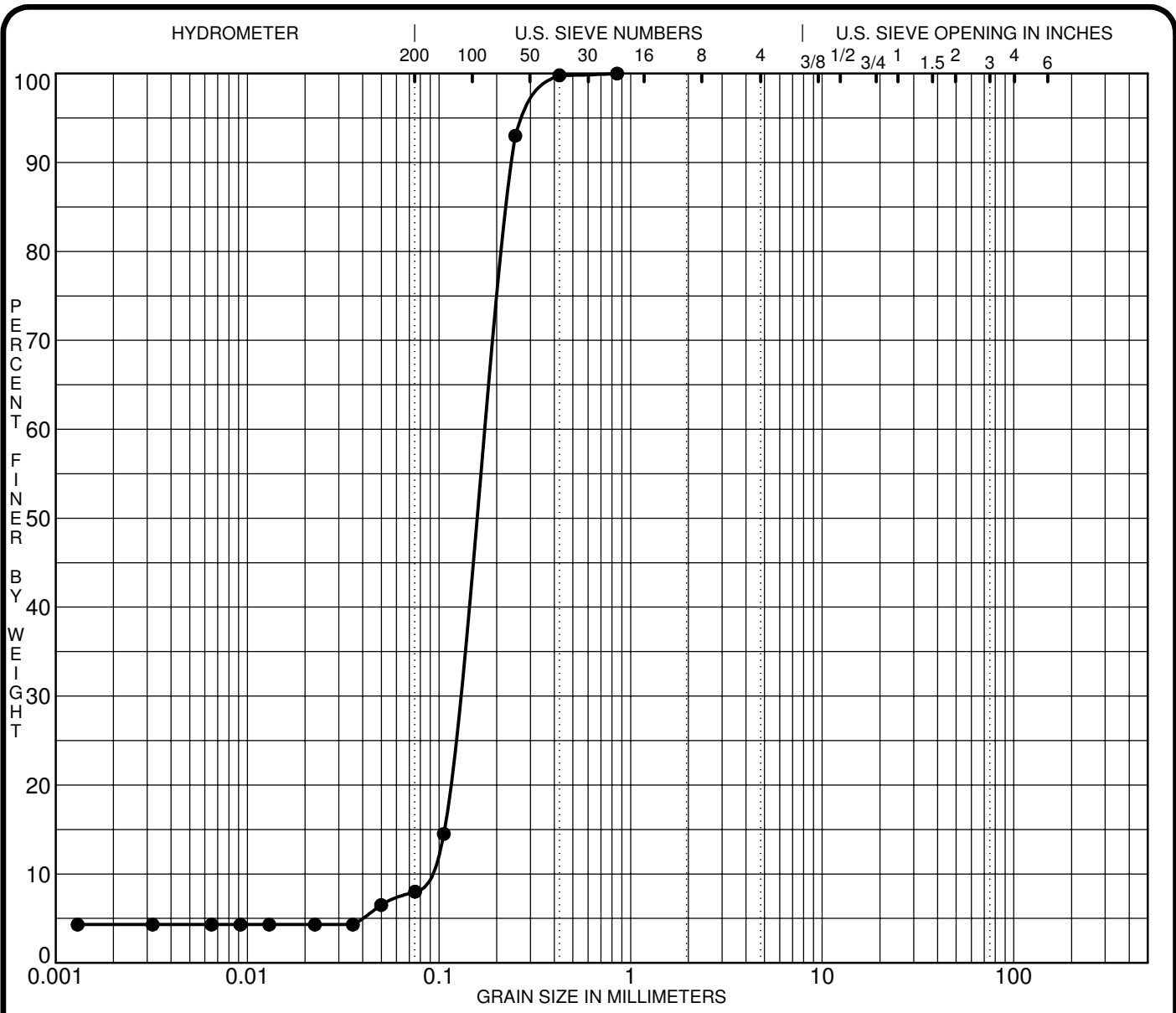
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BH26-22 SS5	0.43	0.00			0.0	3.6	96.4	
☒								
▲								
★								

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 6 Apr 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH26A-22 SS2									1.08	2.1
☒										
▲										
★										

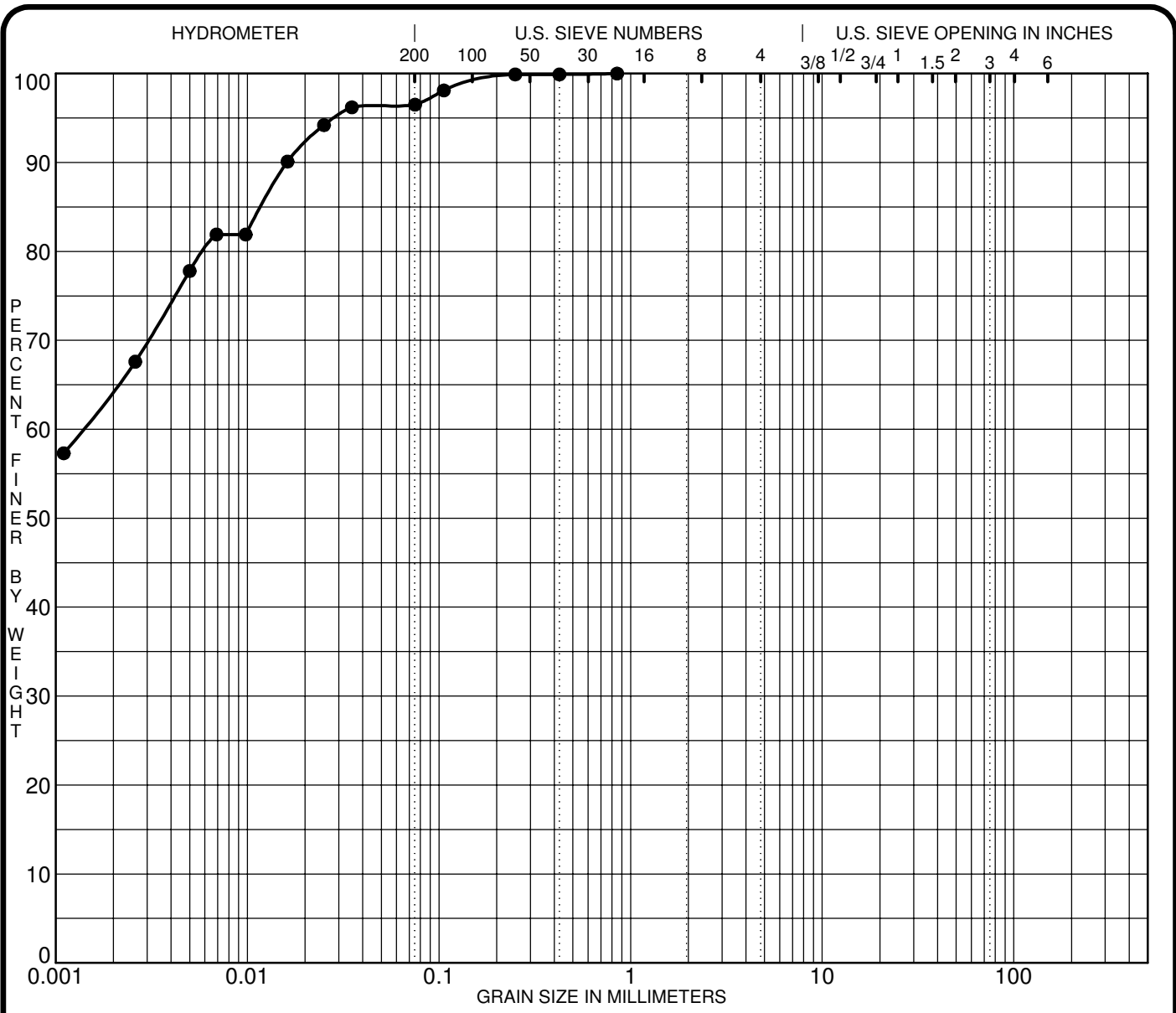
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BH26A-22 SS2	0.85	0.17	0.126	0.0834	0.0	92.0	8.0	
☒								
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CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 6 Apr 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH27-22 SS6										
☒										
▲										
★										

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BH27-22 SS6	0.85	0.00			0.0	3.5	96.5	
☒								
▲								
★								

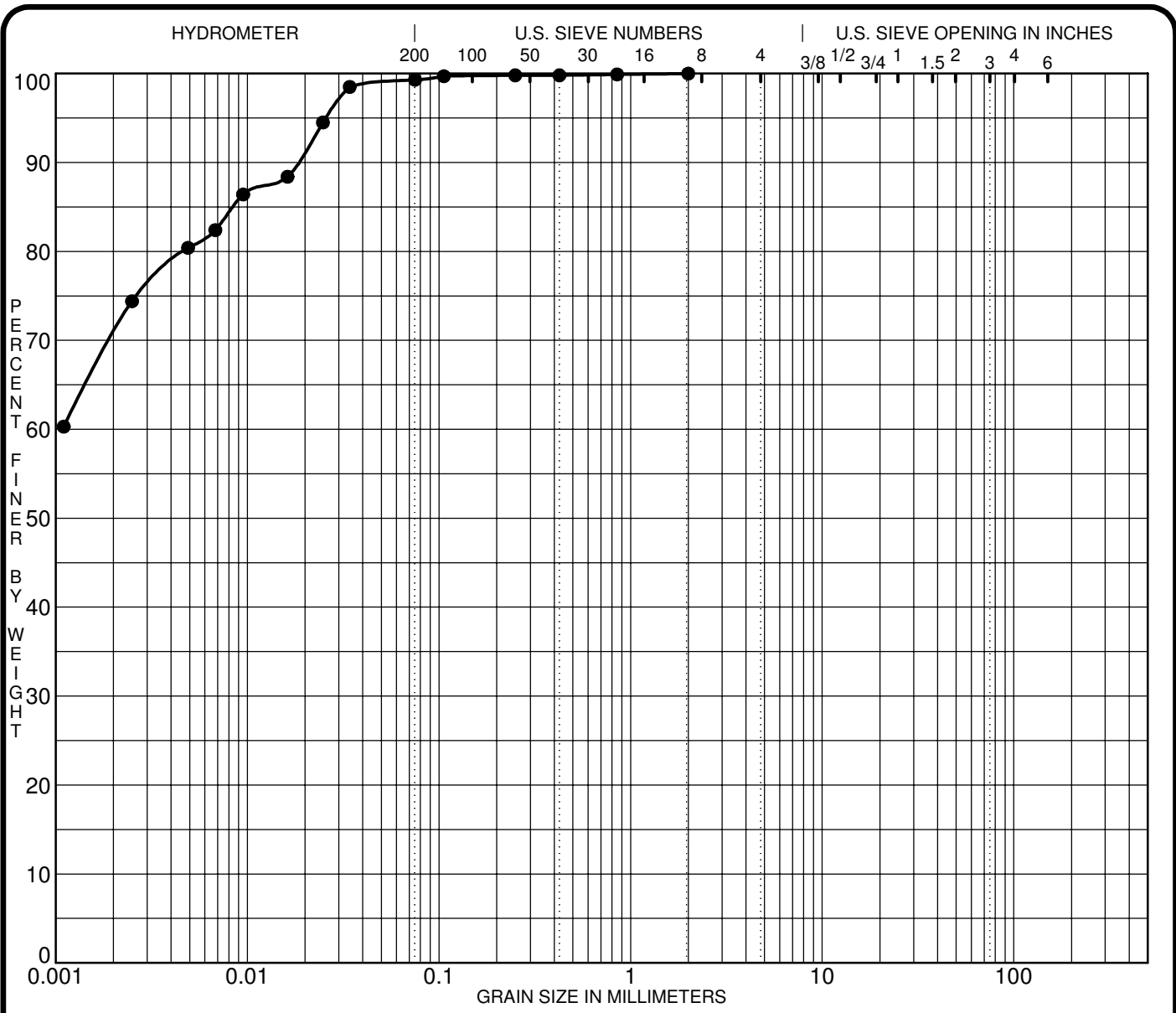
CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 6 Apr 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**





SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

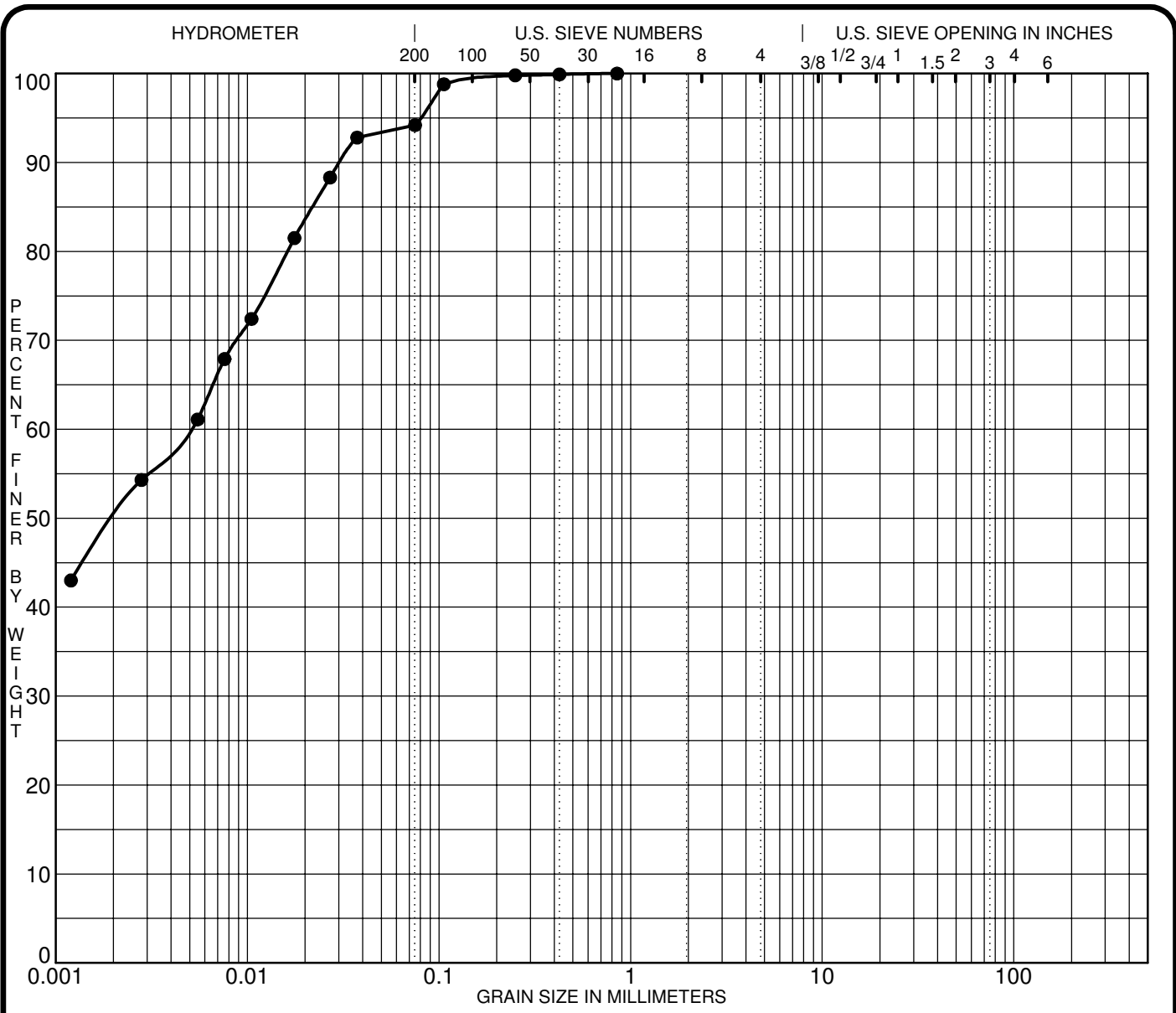
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH28A-22 SS2										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH28A-22 SS2	2.00				0.0	0.7	99.3			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 7 Apr 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

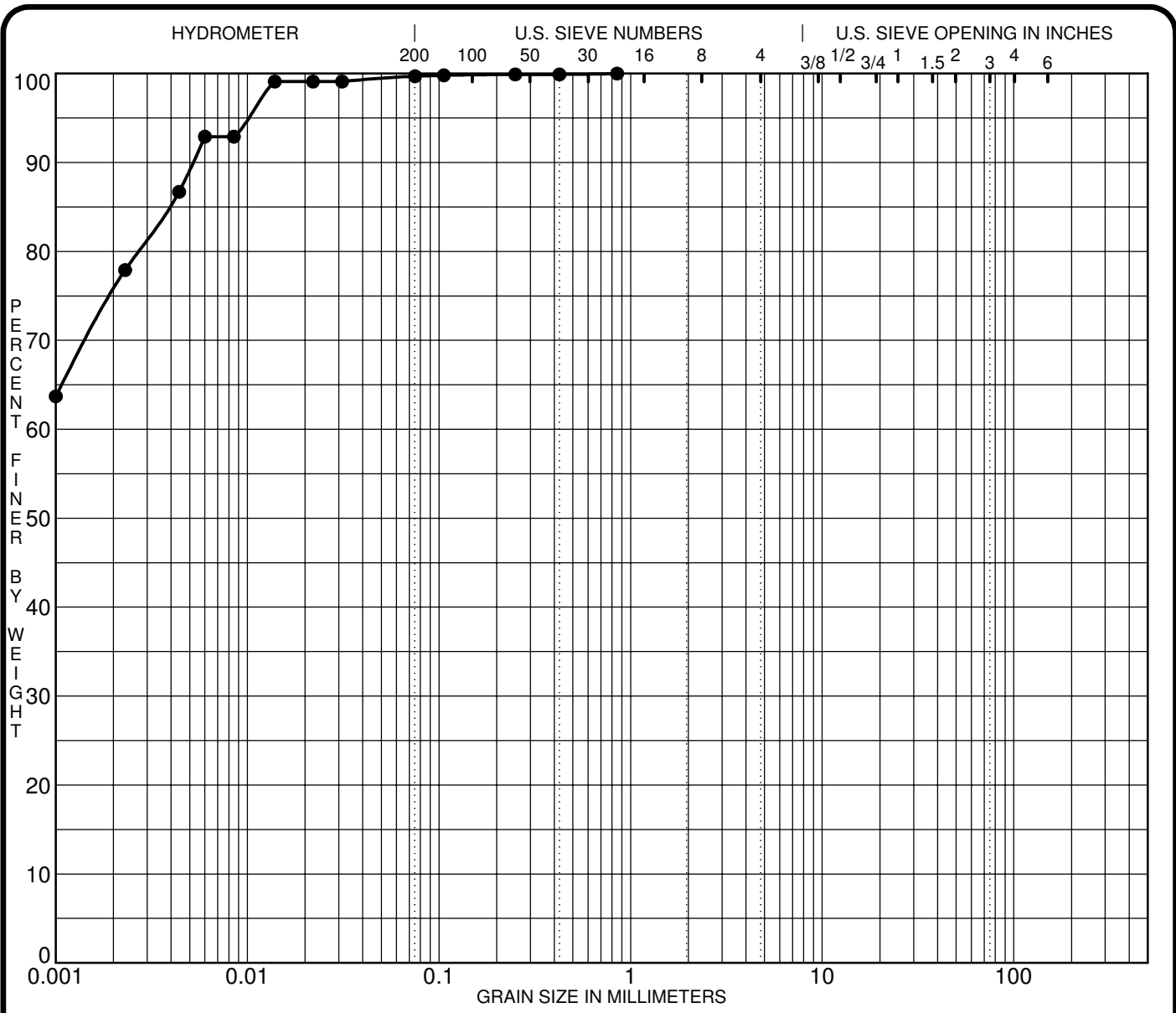
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH29-22 SS3										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH29-22 SS3	0.85	0.00			0.0	5.8	94.2			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 7 Apr 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH30-22 SS11										
☒										
▲										
★										

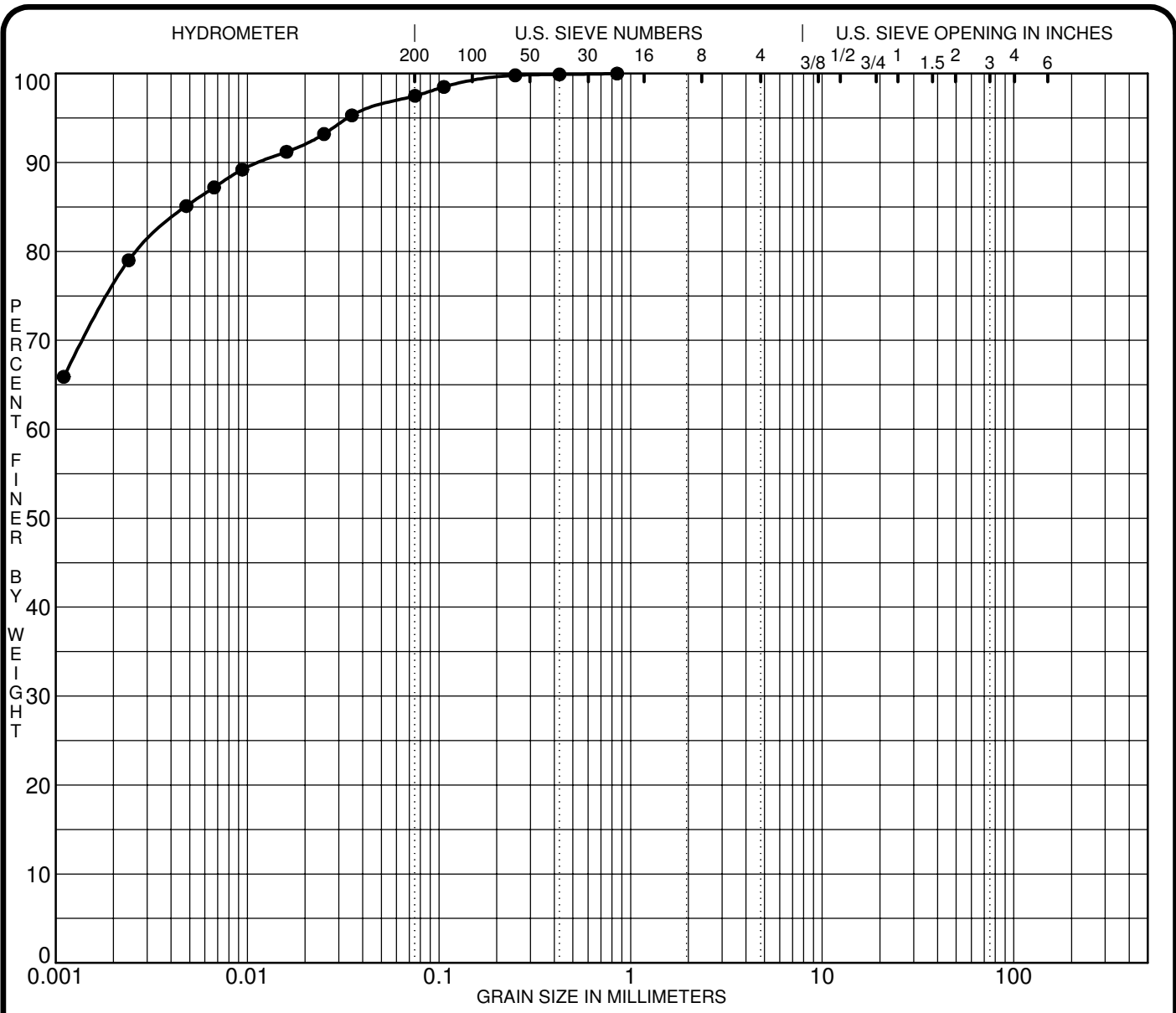
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BH30-22 SS11	0.85				0.0	0.3	99.7	
☒								
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★								

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 7 Apr 22

**paterongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

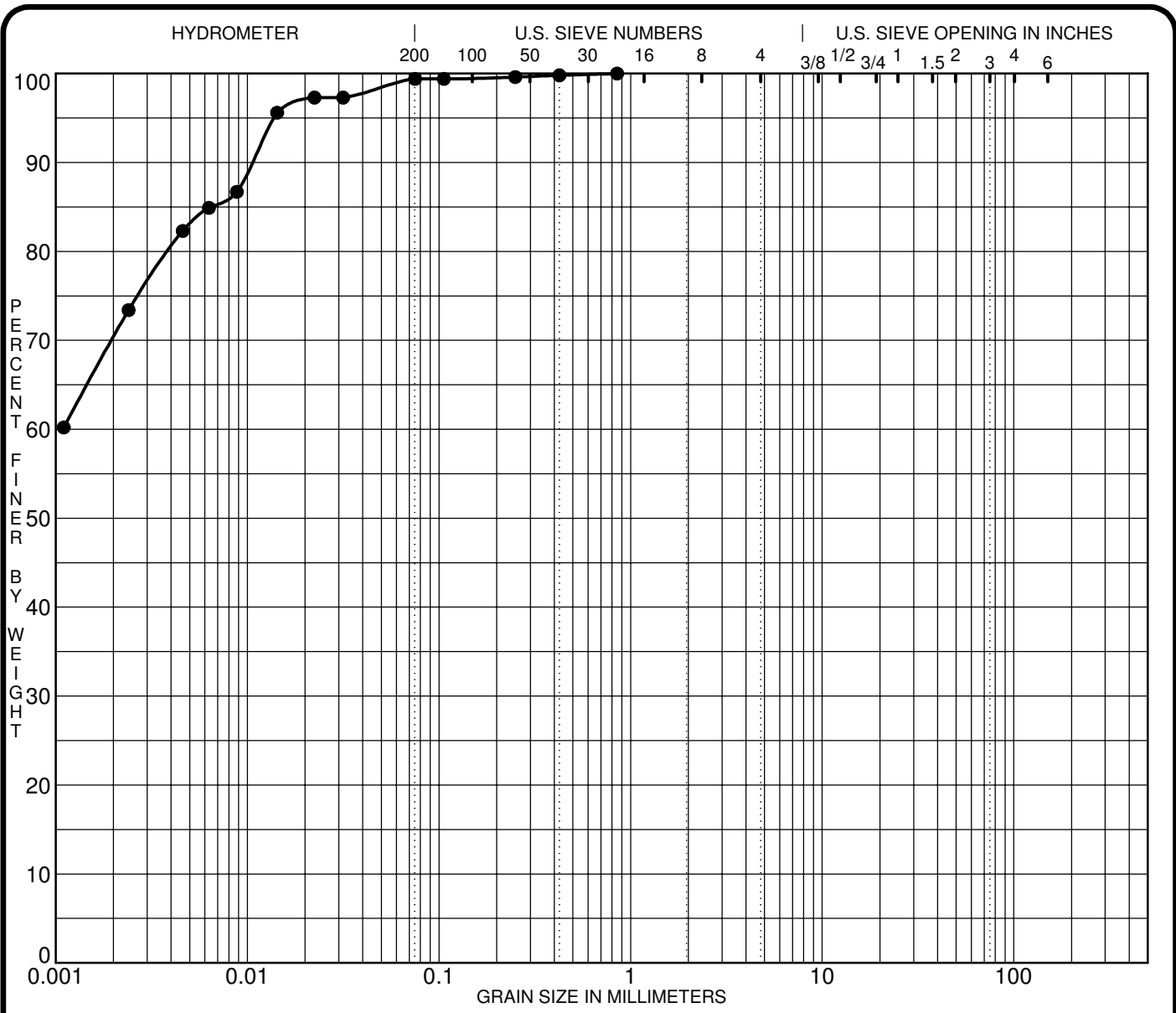
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH31-22 SS2										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH31-22 SS2	0.85				0.0	2.5	97.5			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 6 Apr 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

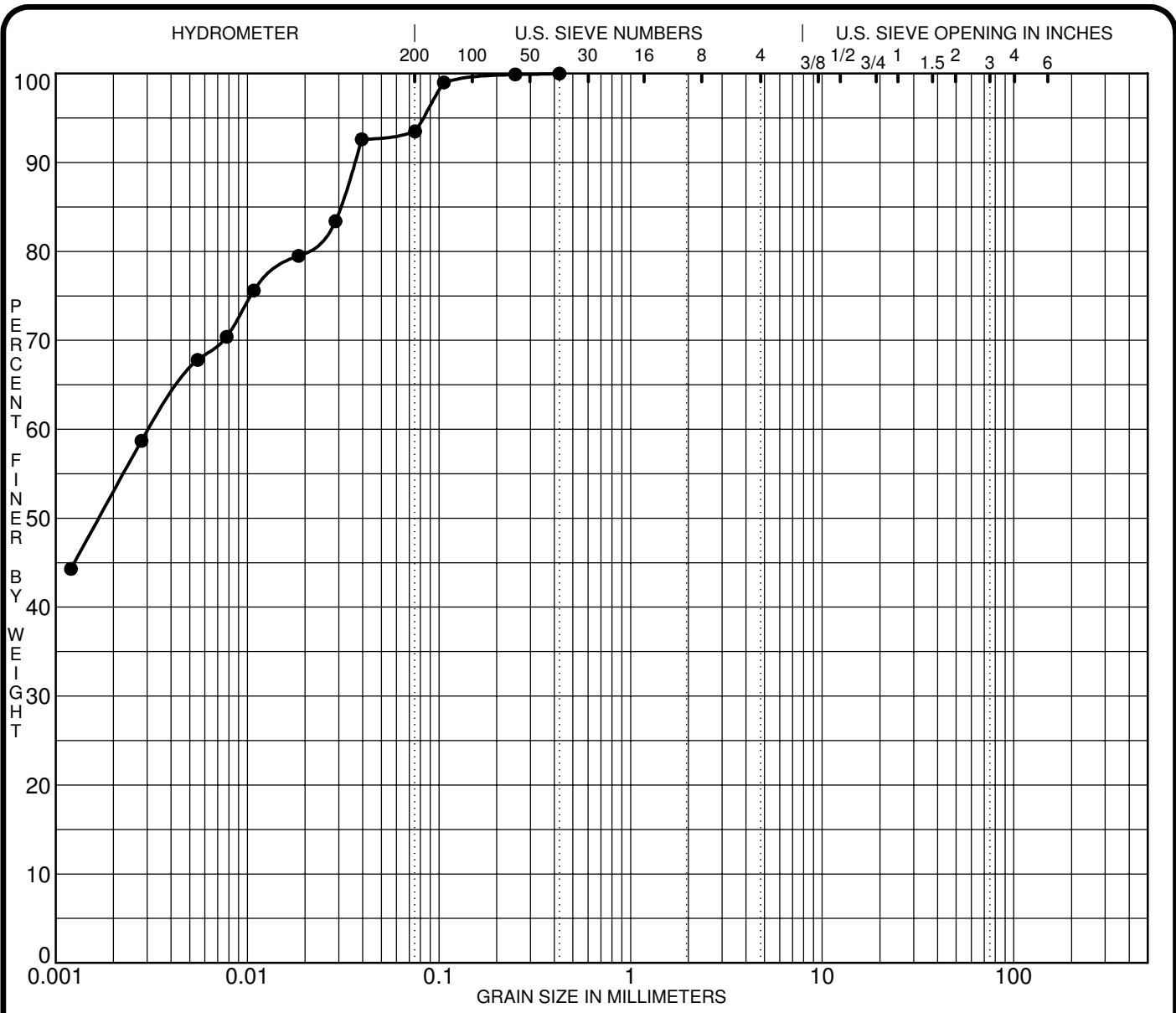
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH32-22 SS7										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH32-22 SS7	0.85				0.0	0.6	99.4			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 6 Apr 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

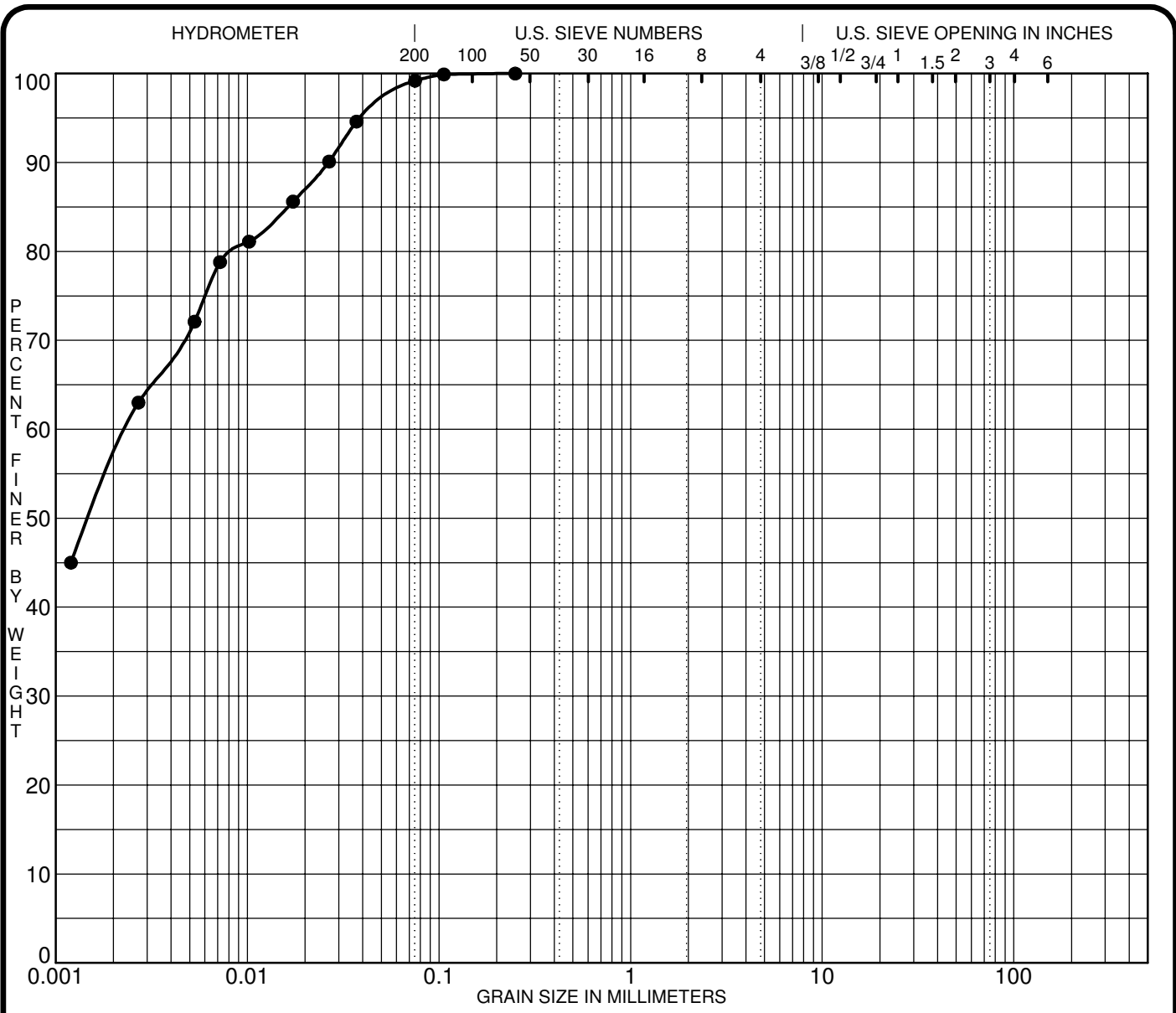
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH33-22 SS3										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH33-22 SS3	0.43	0.00			0.0	6.5	93.5			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 6 Apr 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

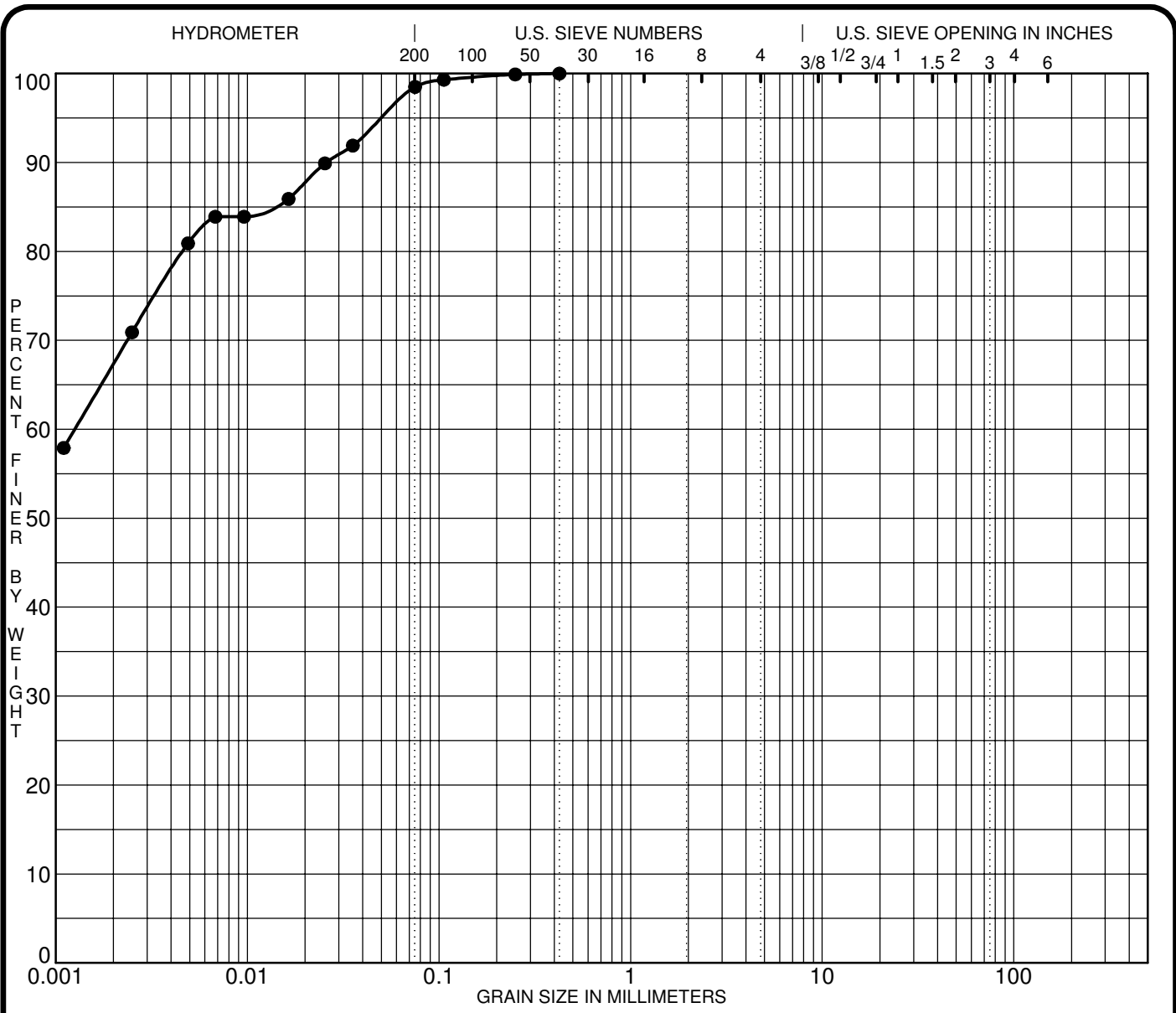
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH34-22 SS7										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH34-22 SS7	0.25	0.00			0.0	0.8	99.2			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 5 Apr 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH35-22 SS6										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH35-22 SS6	0.43	0.00			0.0	1.5	98.5			
☒										
▲										
★										

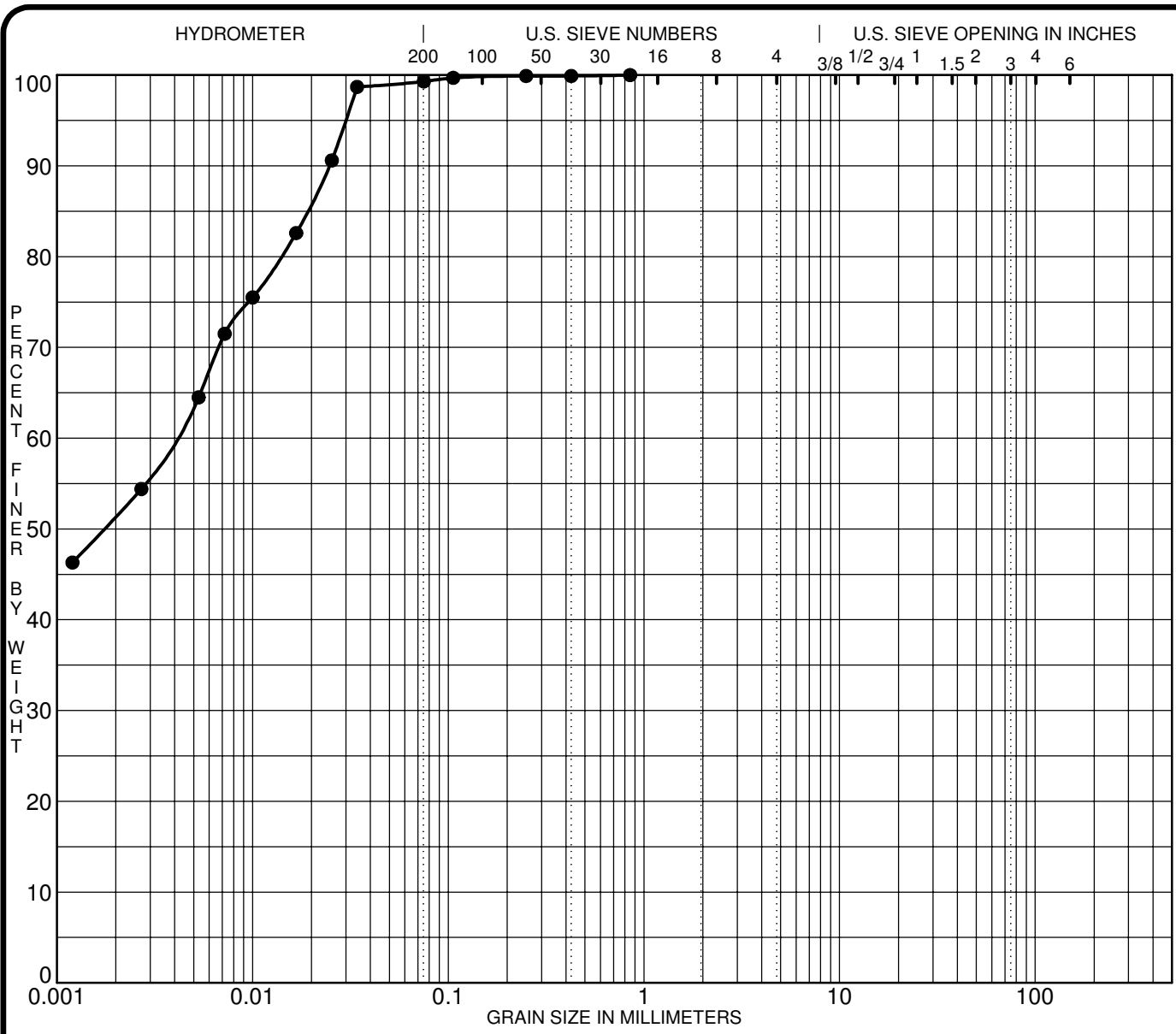
CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 5 Apr 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**





SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

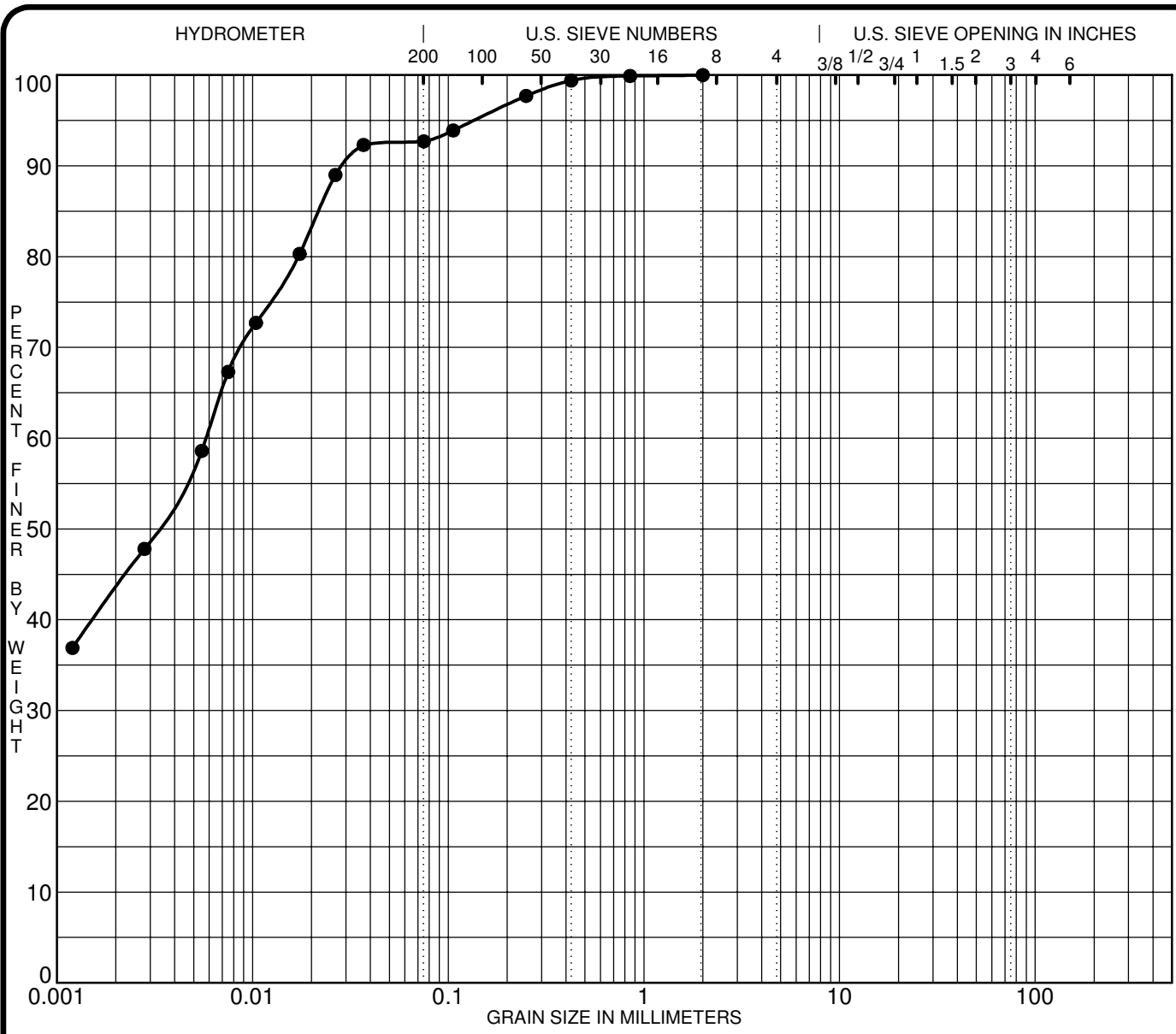
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH36-22 SS5										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH36-22 SS5	0.85	0.00			0.0	0.7	99.3			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 4 Apr 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification					MC%	LL	PL	PI	Cc	Cu
● BH37-22 SS3											
☒											
▲											
★											

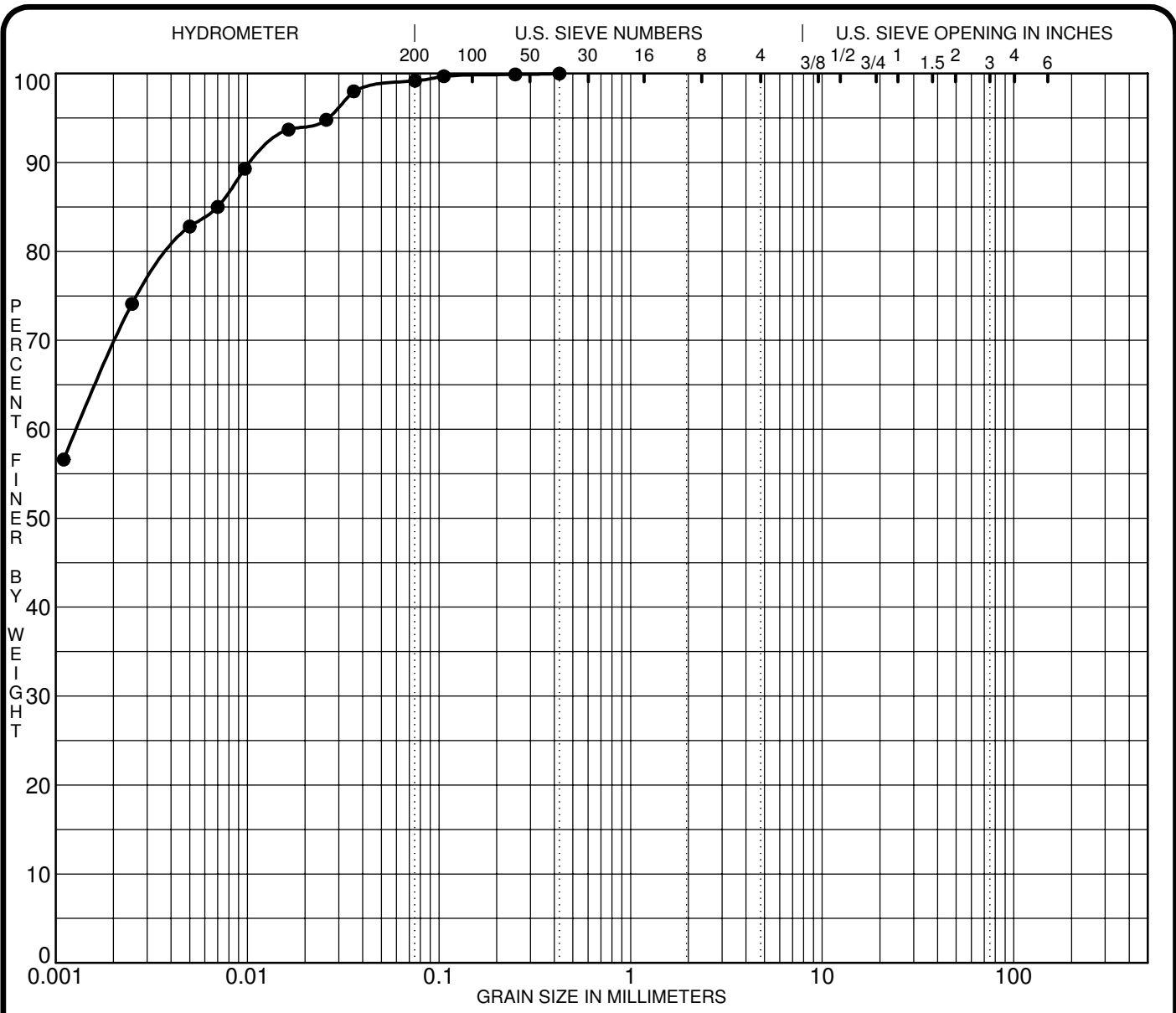
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BH37-22 SS3	2.00	0.01			0.0	7.3	92.7	
☒								
▲								
★								

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 4 Apr 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

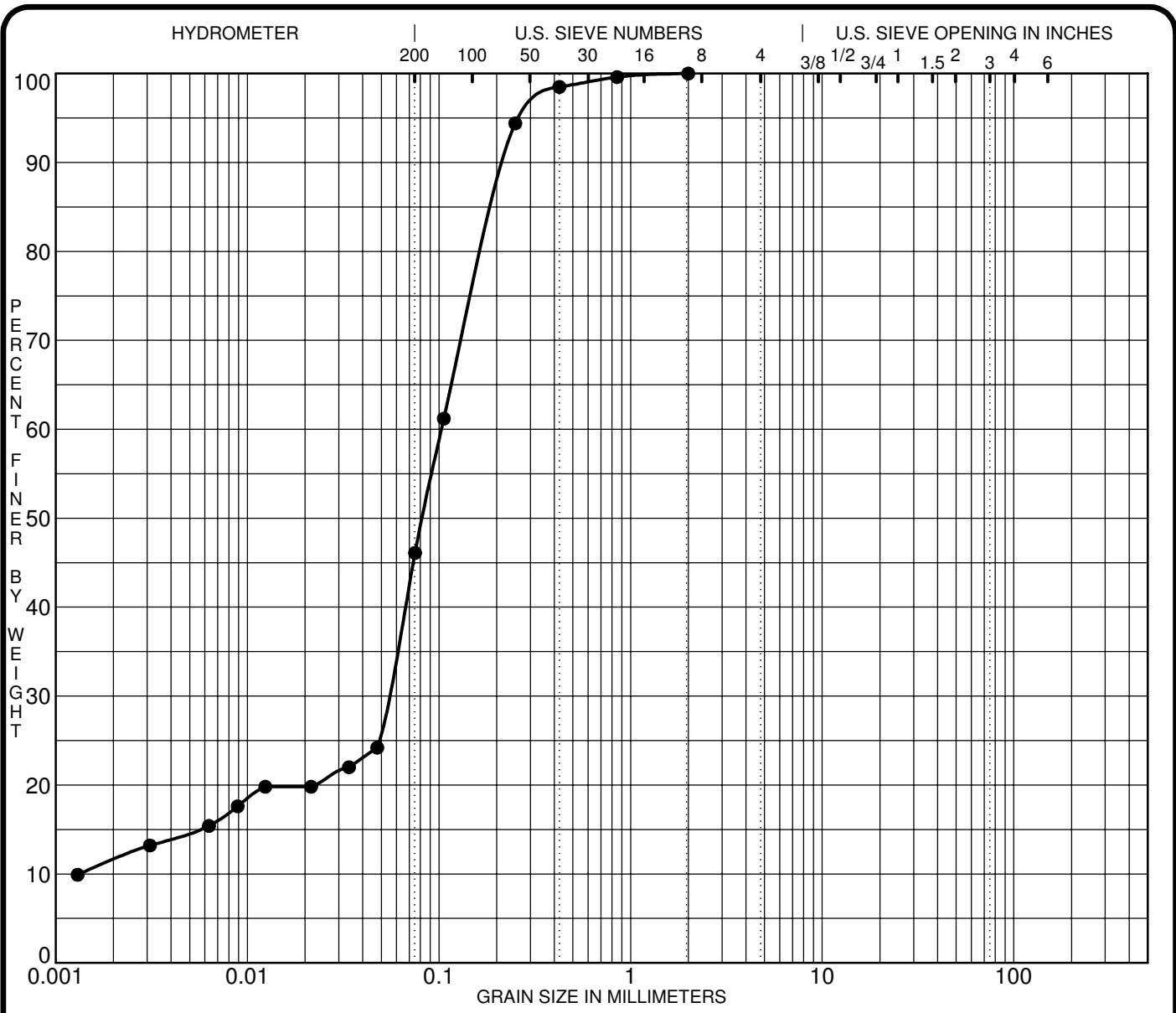
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH38-22 SS3										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH38-22 SS3	0.43	0.00			0.0	0.8	99.2			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 4 Apr 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH38A-22 SS1									20.94	77.3
☒										
▲										
★										

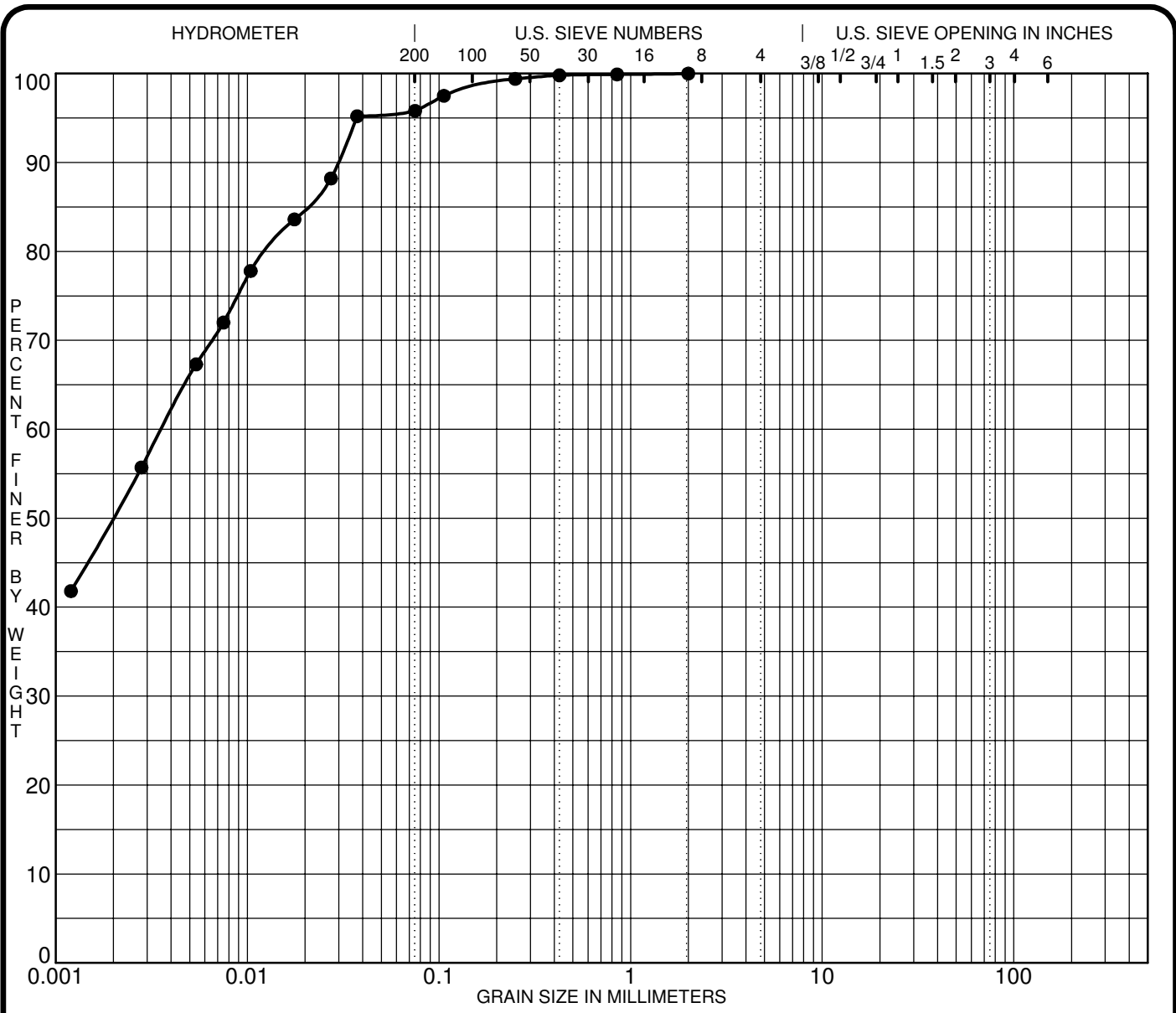
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BH38A-22 SS1	2.00	0.10	0.054	0.0013	0.0	53.9	46.1	
☒								
▲								
★								

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 1 Apr 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

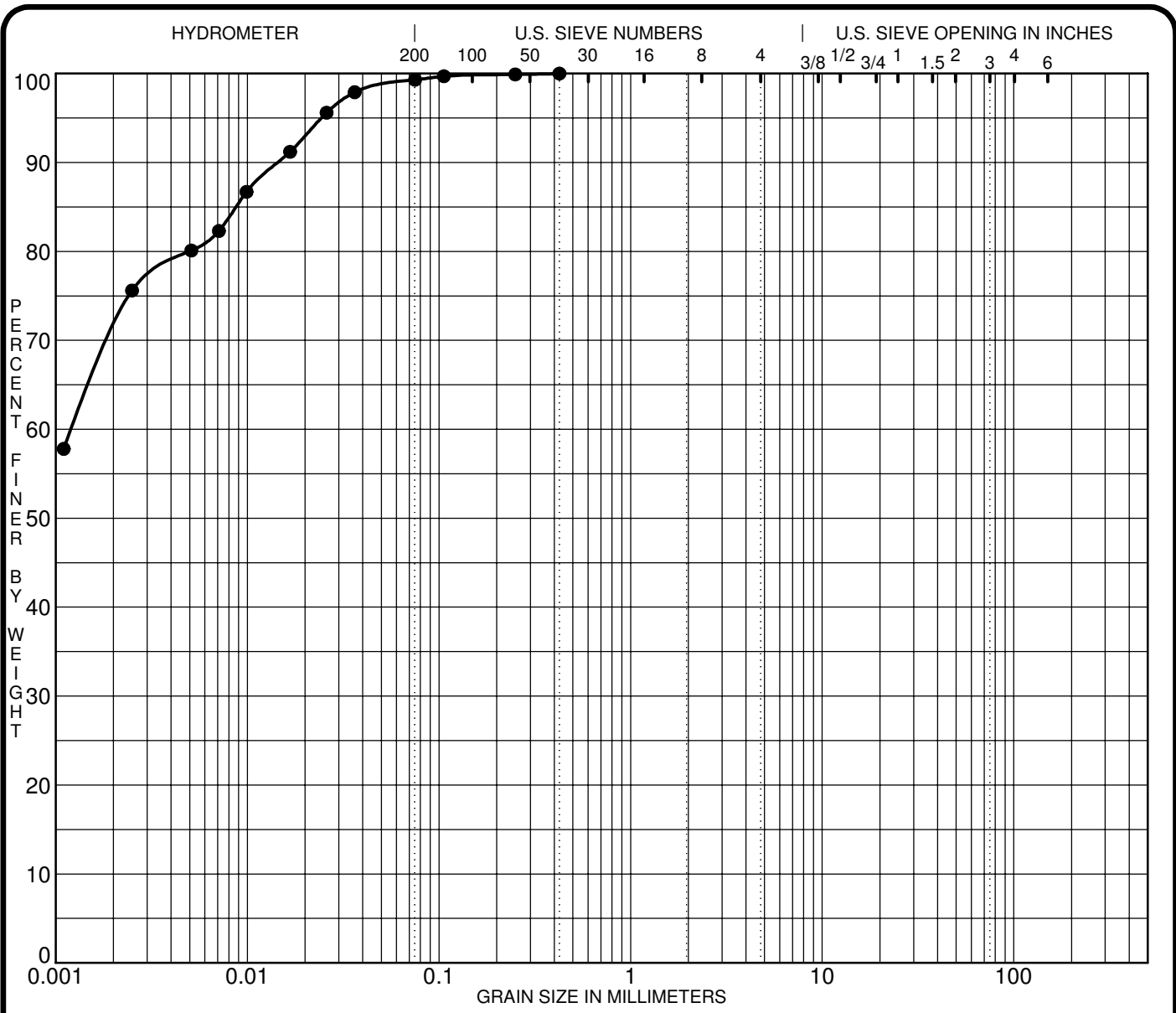
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH39-22 SS3										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH39-22 SS3	2.00	0.00			0.0	4.2	95.8			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 1 Apr 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

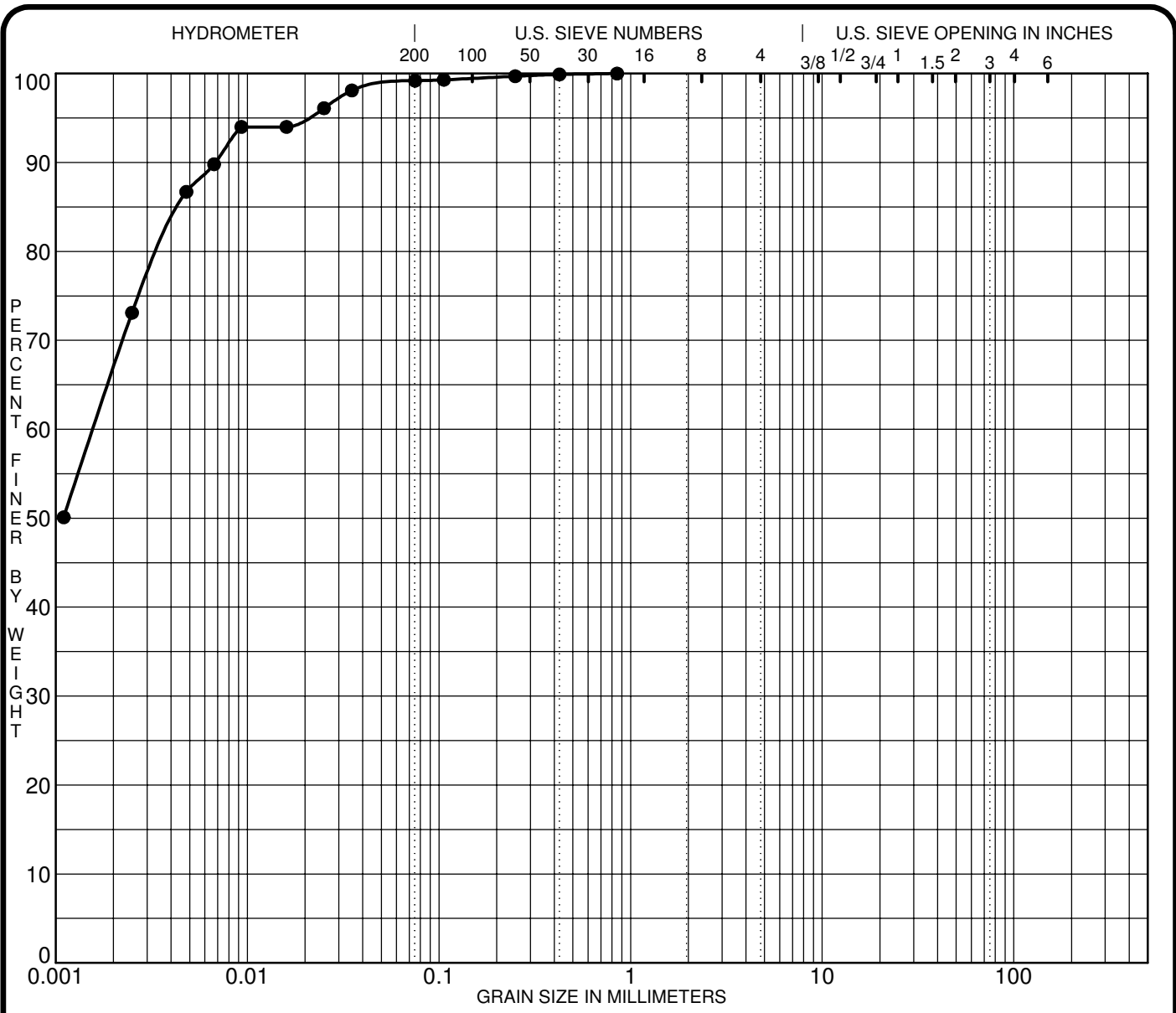
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH40-22 SS3										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH40-22 SS3	0.43	0.00			0.0	0.7	99.3			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 16 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

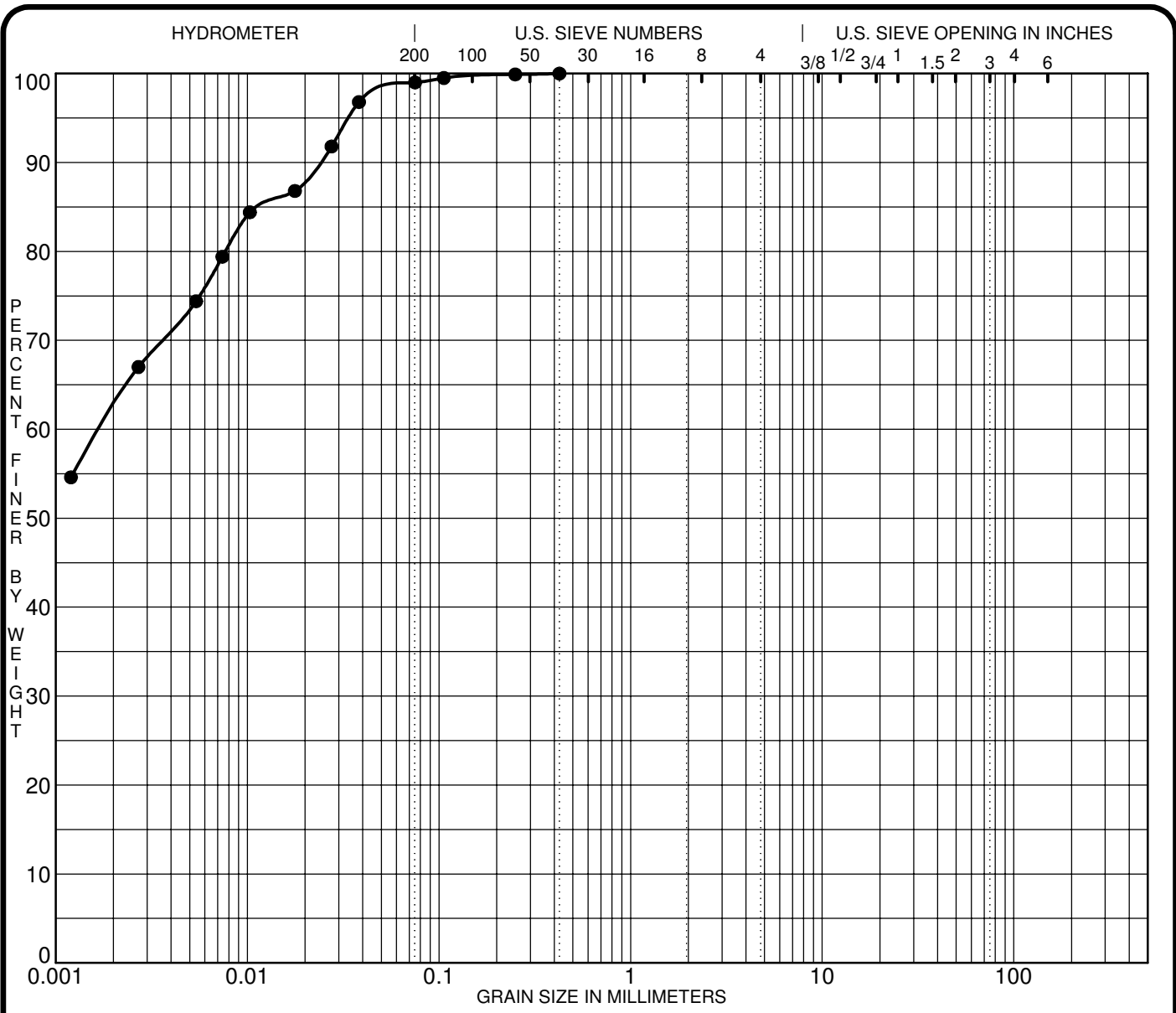
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH41-22 SS9										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH41-22 SS9	0.85	0.00			0.0	0.8	99.2			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 16 Mar 22

**paterongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH42-22 SS3										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH42-22 SS3	0.43	0.00			0.0	1.0	99.0			
☒										
▲										
★										

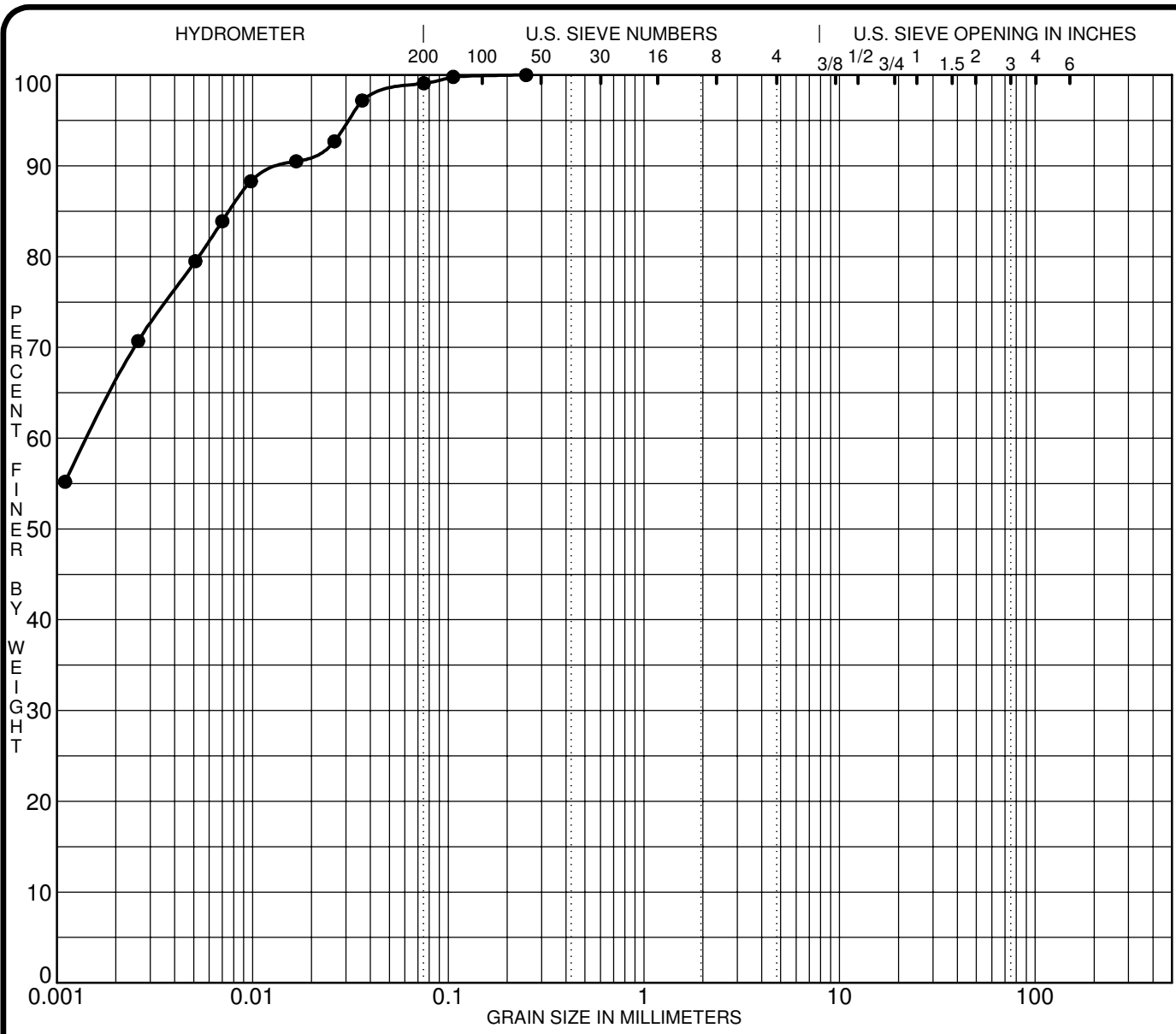
CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 17 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**





SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

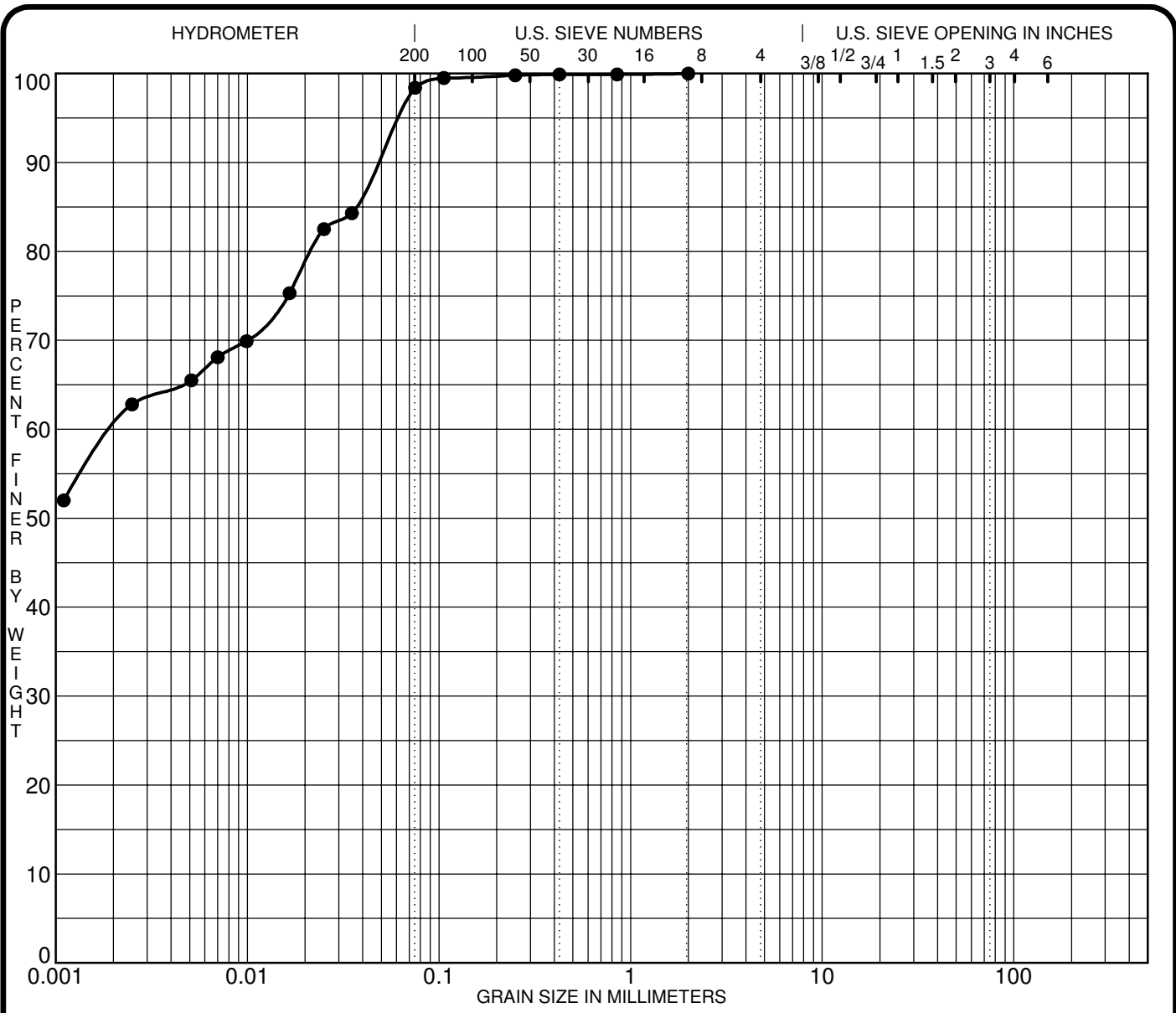
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH43-22 SS3										
☒										
▲										
★										

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BH43-22 SS3	0.25	0.00			0.0	0.9	99.1	
☒								
▲								
★								

CLIENT Taggart Investments FILE NO. PG5827  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use DATE 17 Mar 22  
Community Development

**paterongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH44-22 SS3										
☒										
▲										
★										

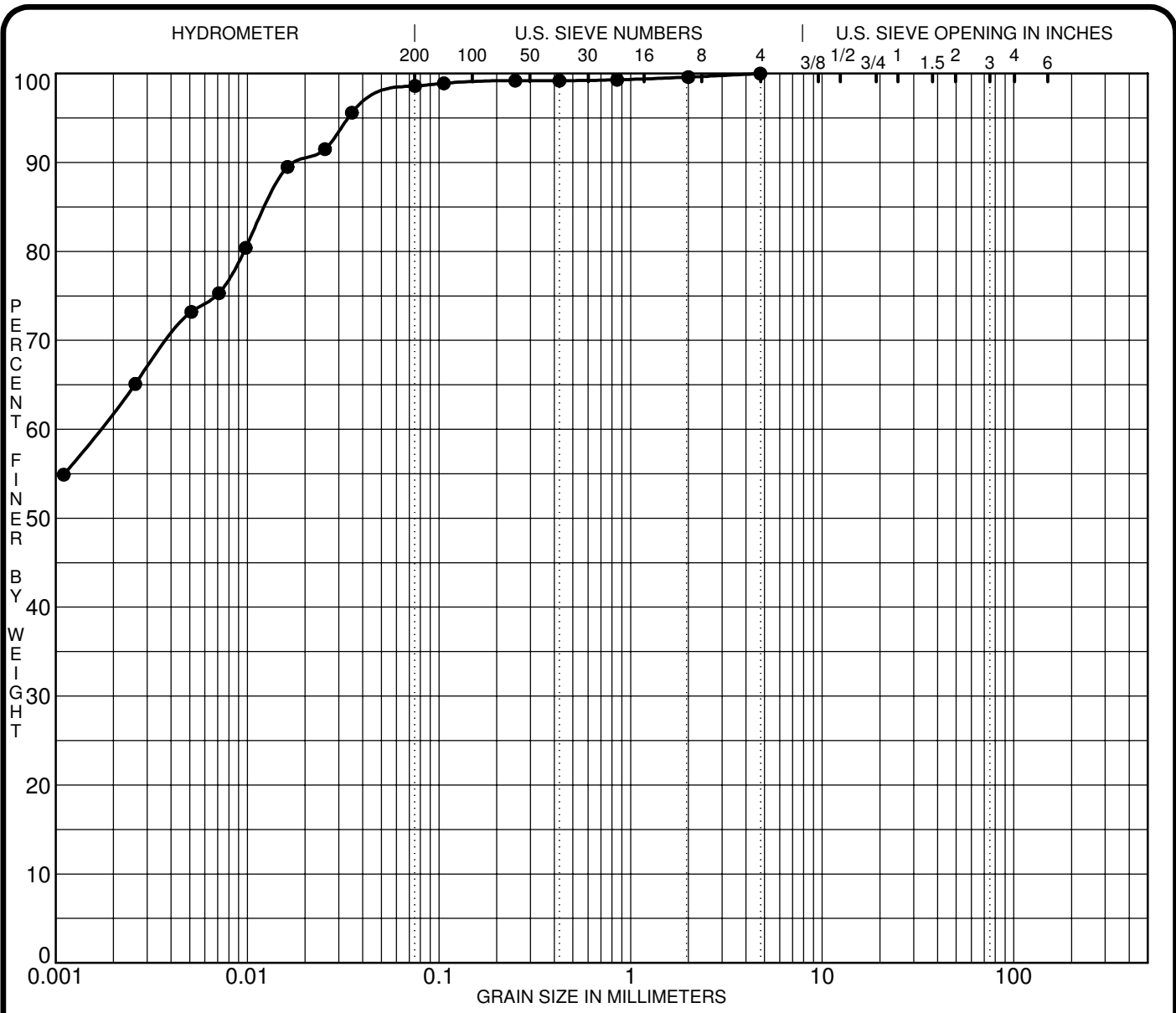
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BH44-22 SS3	2.00	0.00			0.0	1.6	98.4	
☒								
▲								
★								

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 17 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

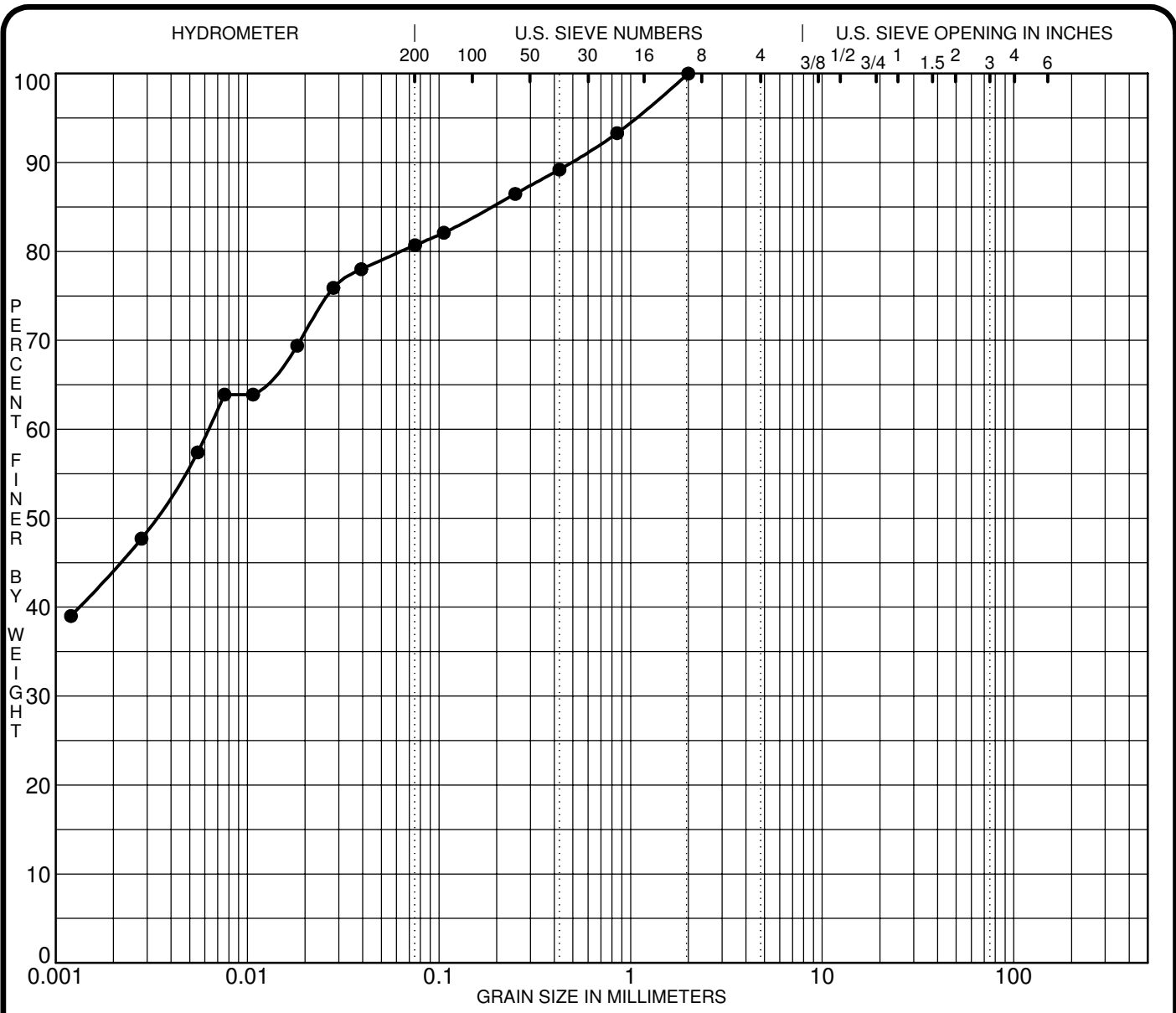
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH45-22 SS3										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH45-22 SS3	4.75	0.00			0.0	1.4	98.6			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 18 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

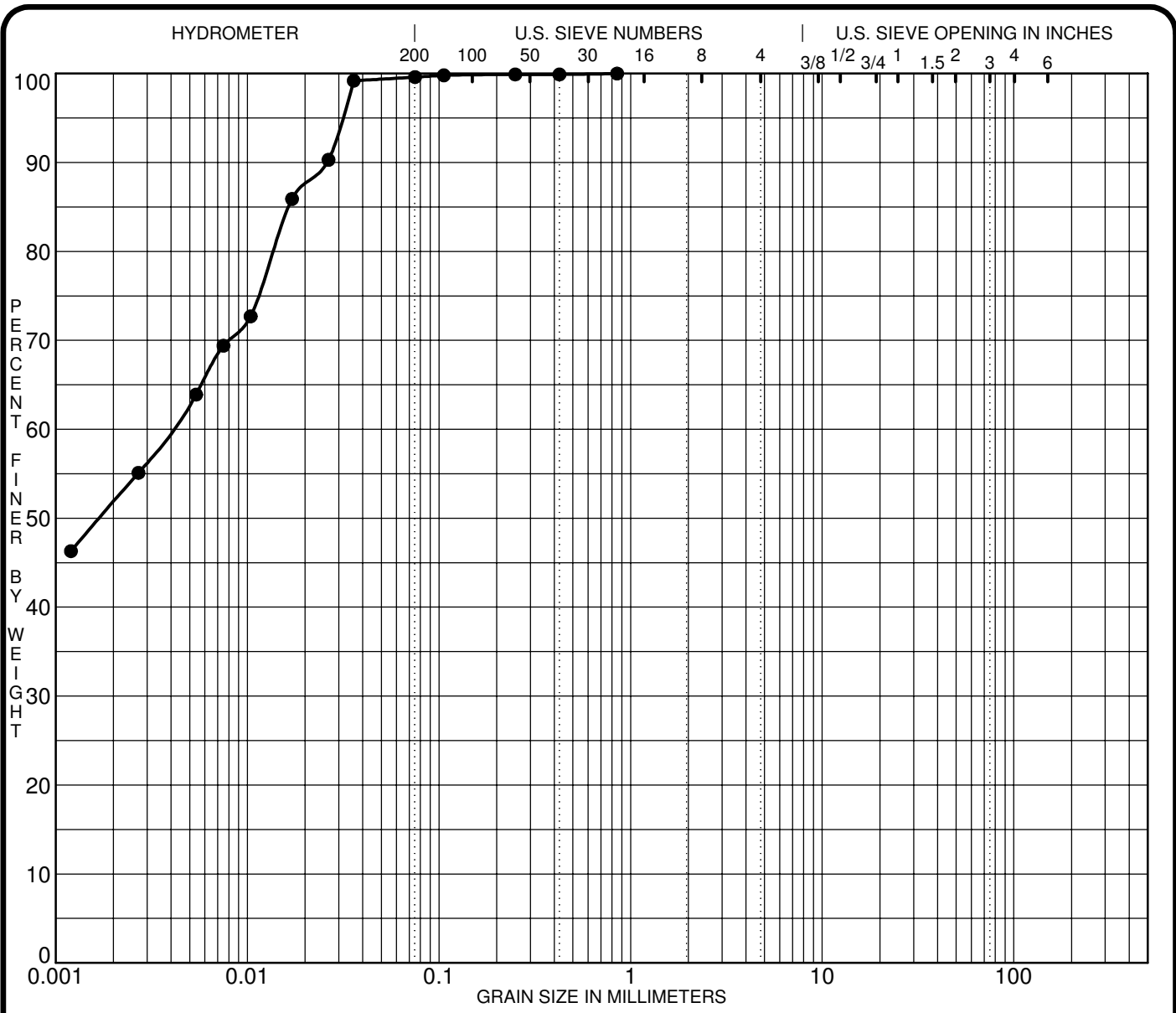
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH45A-22 SS1										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH45A-22 SS1	2.00	0.01			0.0	19.3	80.7			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 18 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

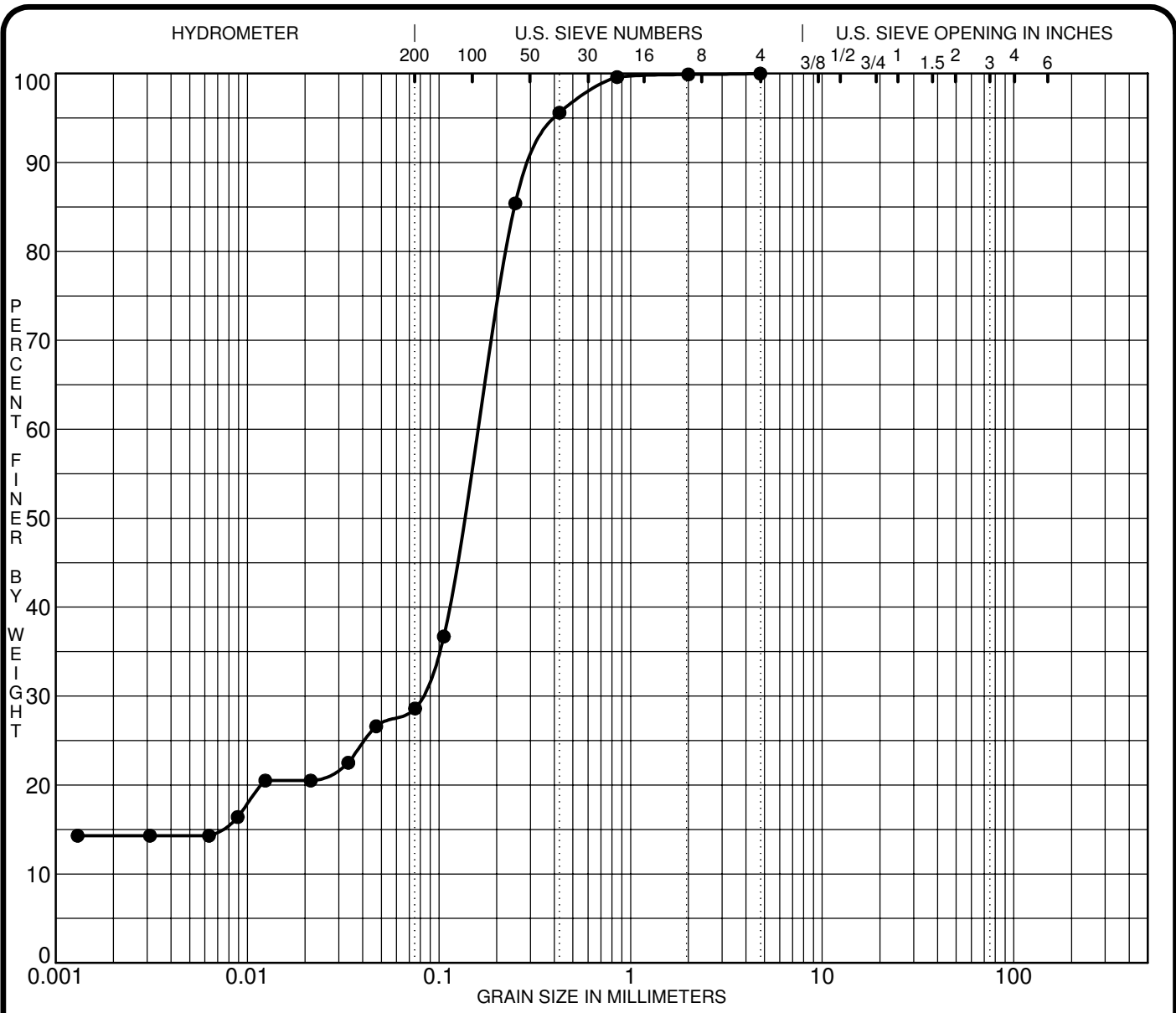
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH46-22 SS10										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH46-22 SS10	0.85	0.00			0.0	0.4	99.6			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 18 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

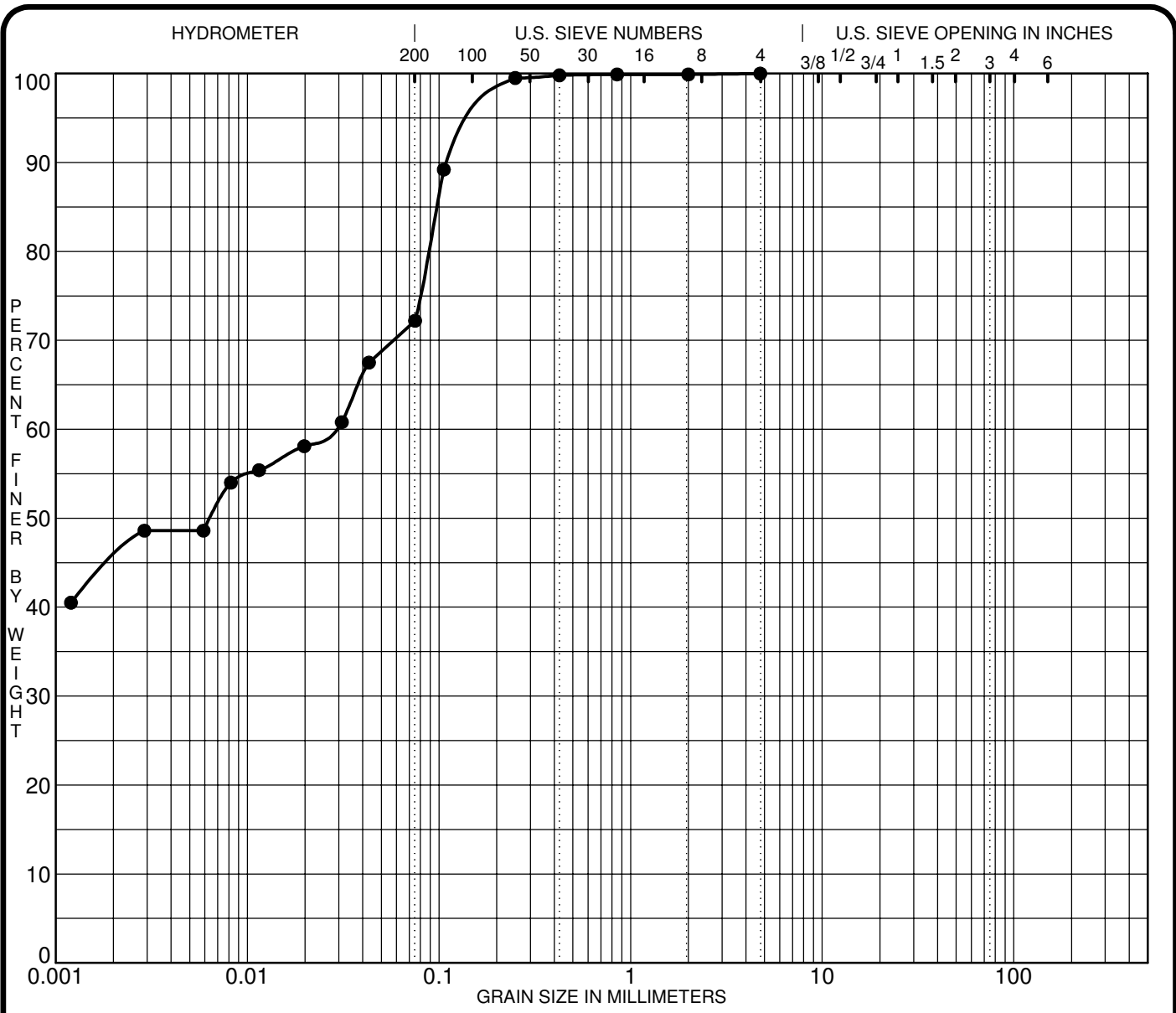
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH47-22 SS1										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH47-22 SS1	4.75	0.16	0.080		0.0	71.4	28.6			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 21 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

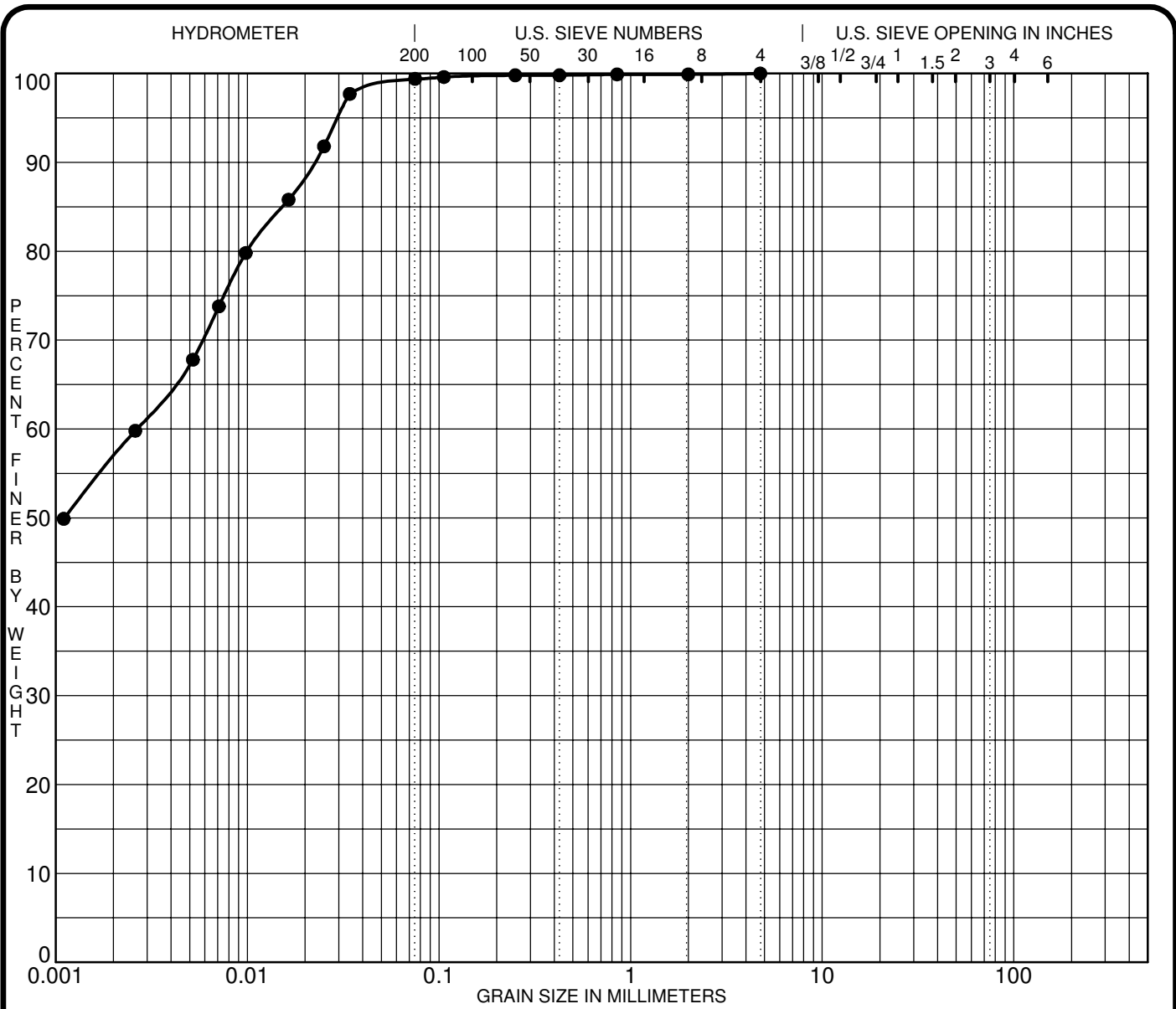
Specimen Identification	Classification					MC%	LL	PL	PI	Cc	Cu
● BH48-22 SS3											
☒											
▲											
★											
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay			
● BH48-22 SS3	4.75	0.03			0.0	27.8	72.2				
☒											
▲											
★											

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 21 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH49-22 SS8										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH49-22 SS8	4.75	0.00			0.0	0.6	99.4			
☒										
▲										
★										

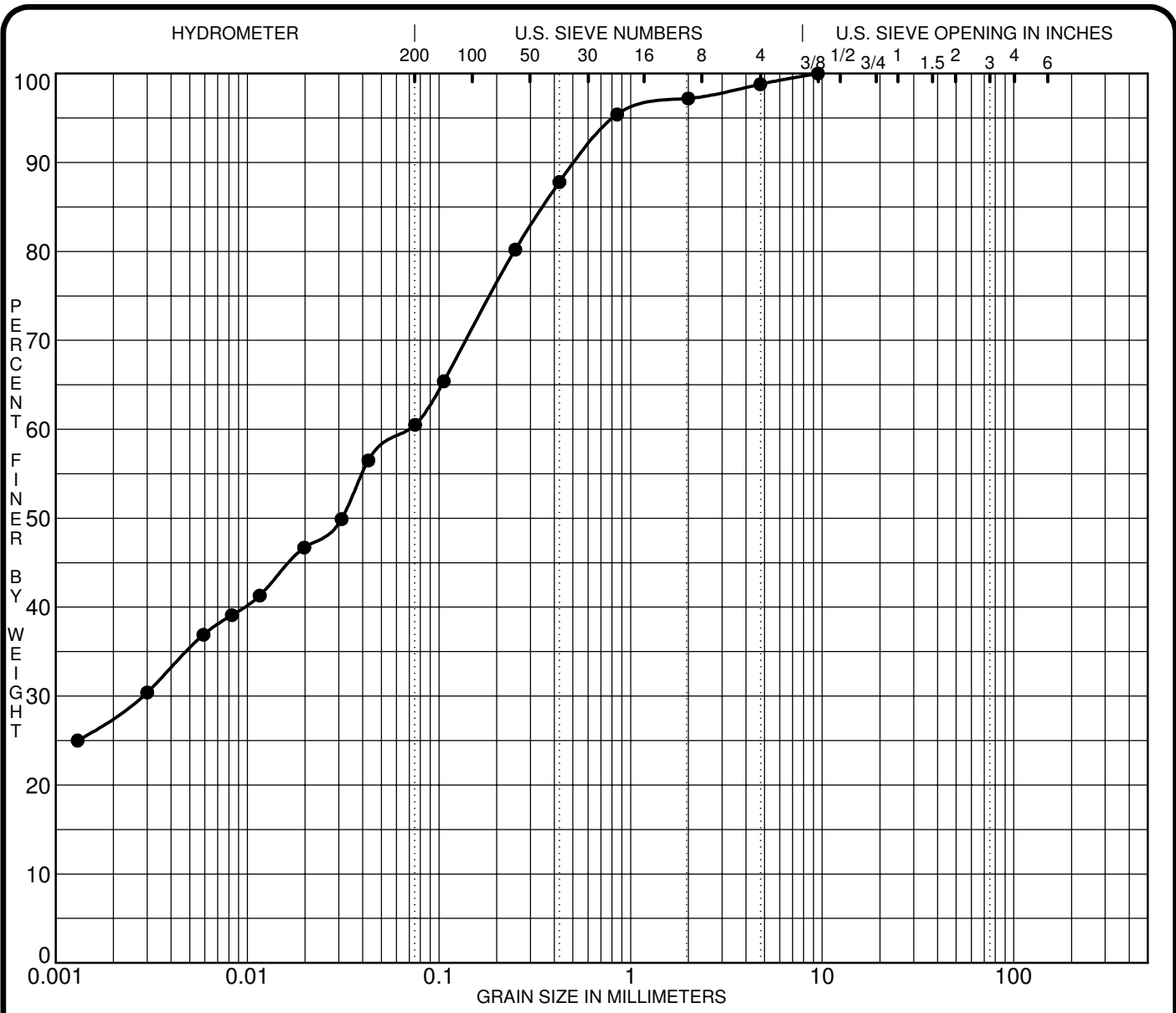
CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 22 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**





SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

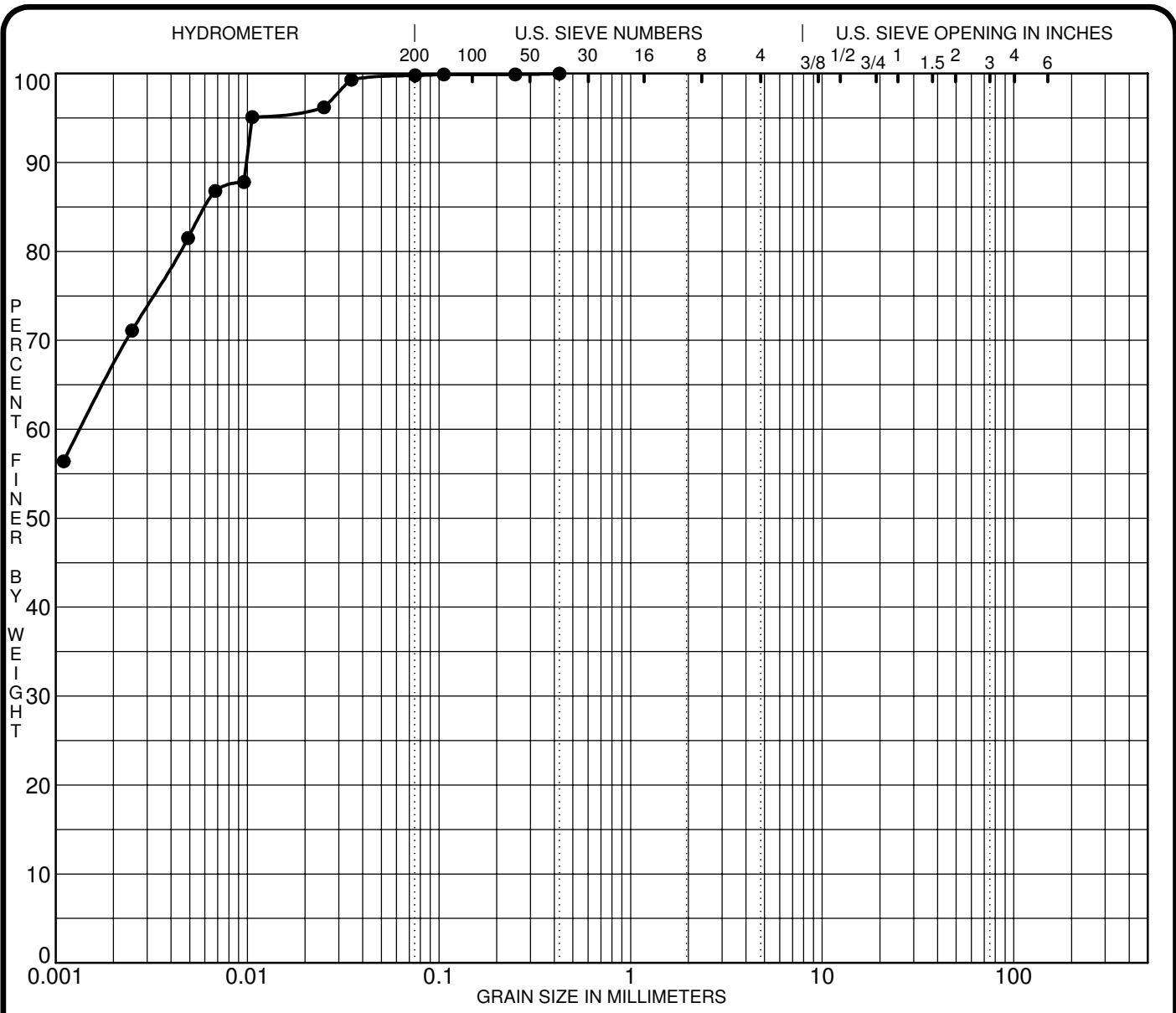
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH49A-22 SS1										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH49A-22 SS1	9.50	0.07	0.003		1.2	38.3	60.5			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 22 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

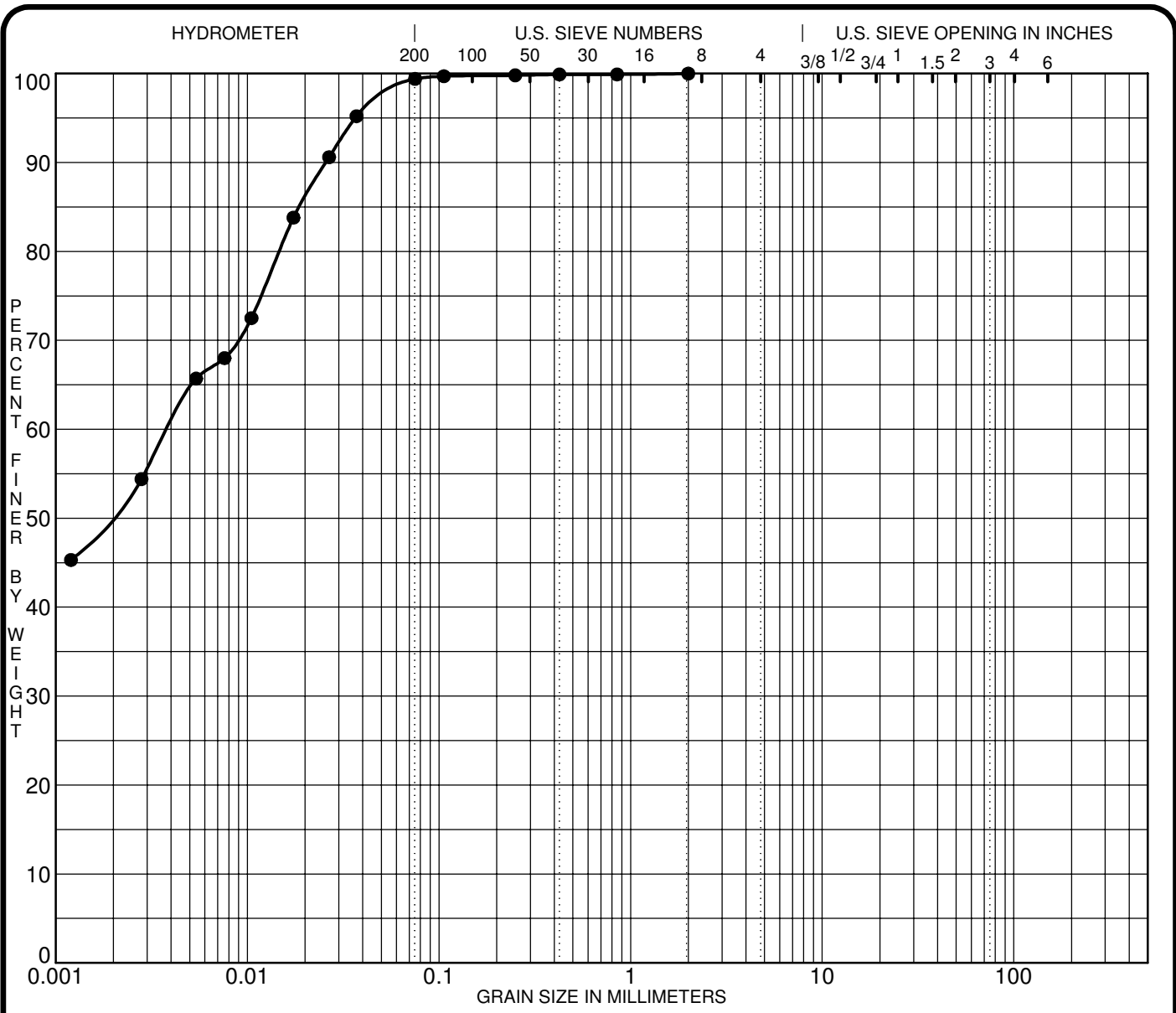
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH50-22 SS8										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH50-22 SS8	0.43	0.00			0.0	0.2	99.8			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 23 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

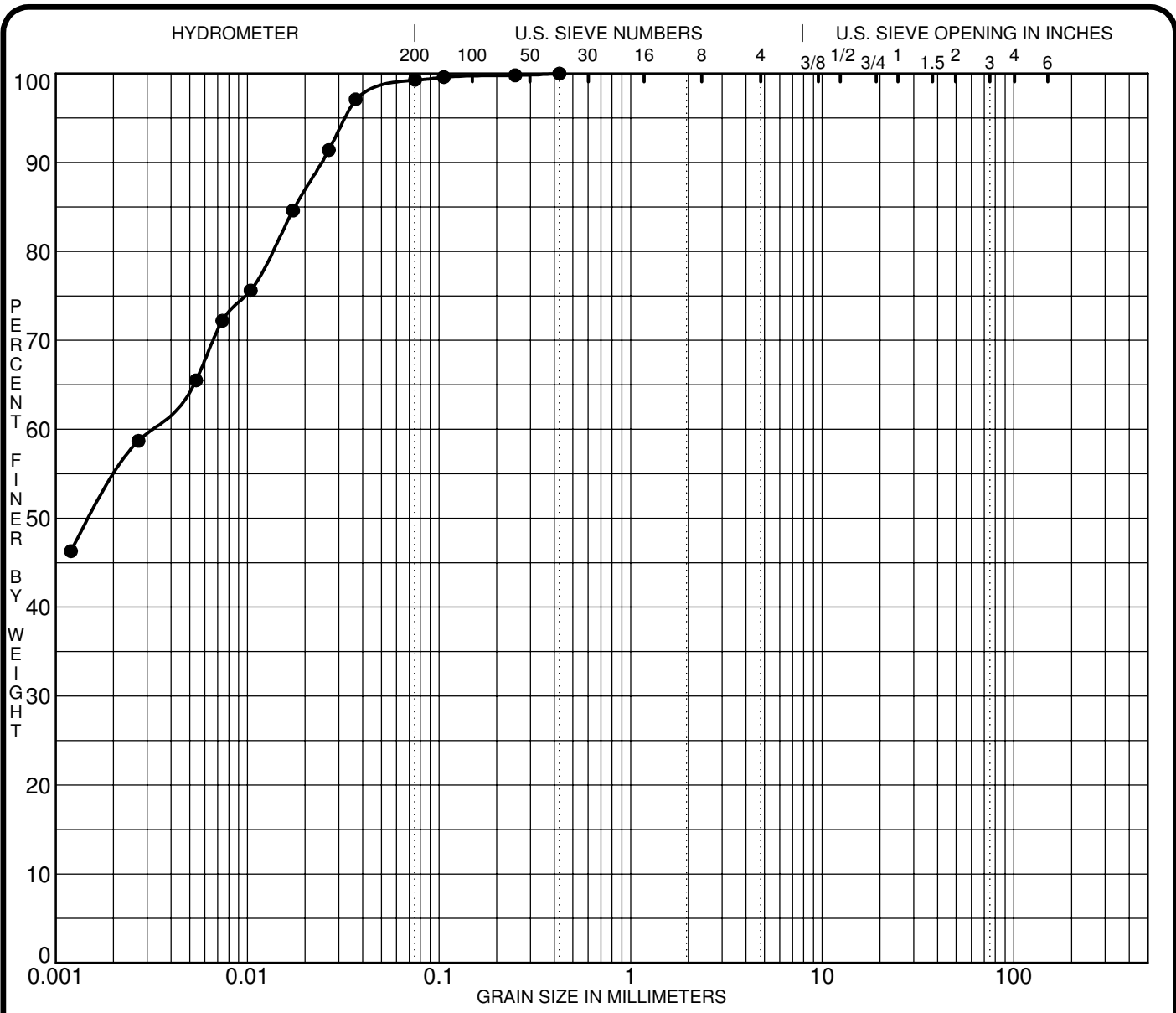
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH51-22 SS6										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH51-22 SS6	2.00	0.00			0.0	0.6	99.4			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 23 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

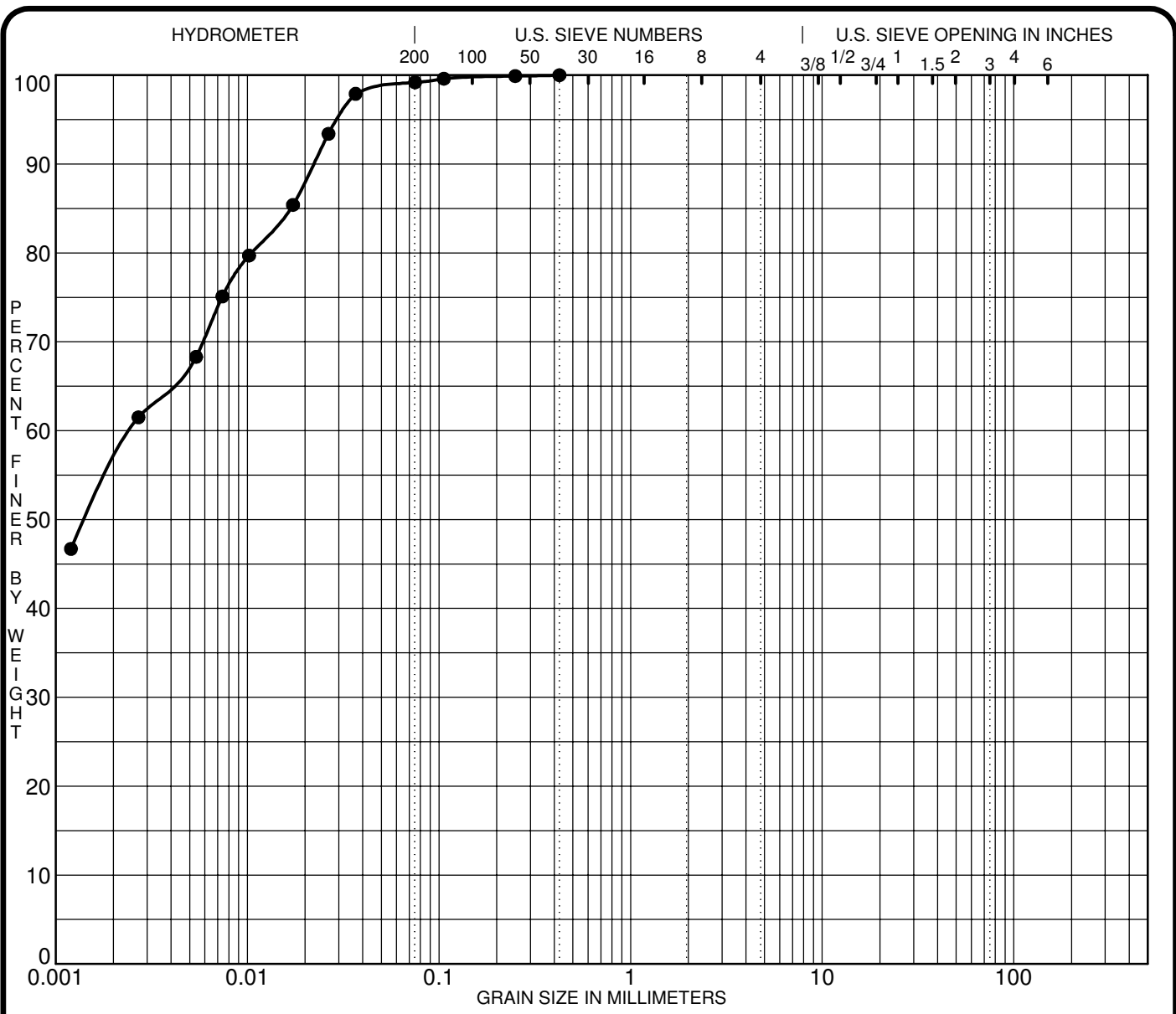
Specimen Identification	Classification					MC%	LL	PL	PI	Cc	Cu
● BH52-22 SS6	CH - Inorganic clays of high plasticity						53	25	28		
☒											
▲											
★											
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay			
● BH52-22 SS6	0.43	0.00			0.0	0.7	99.3				
☒											
▲											
★											

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 23 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

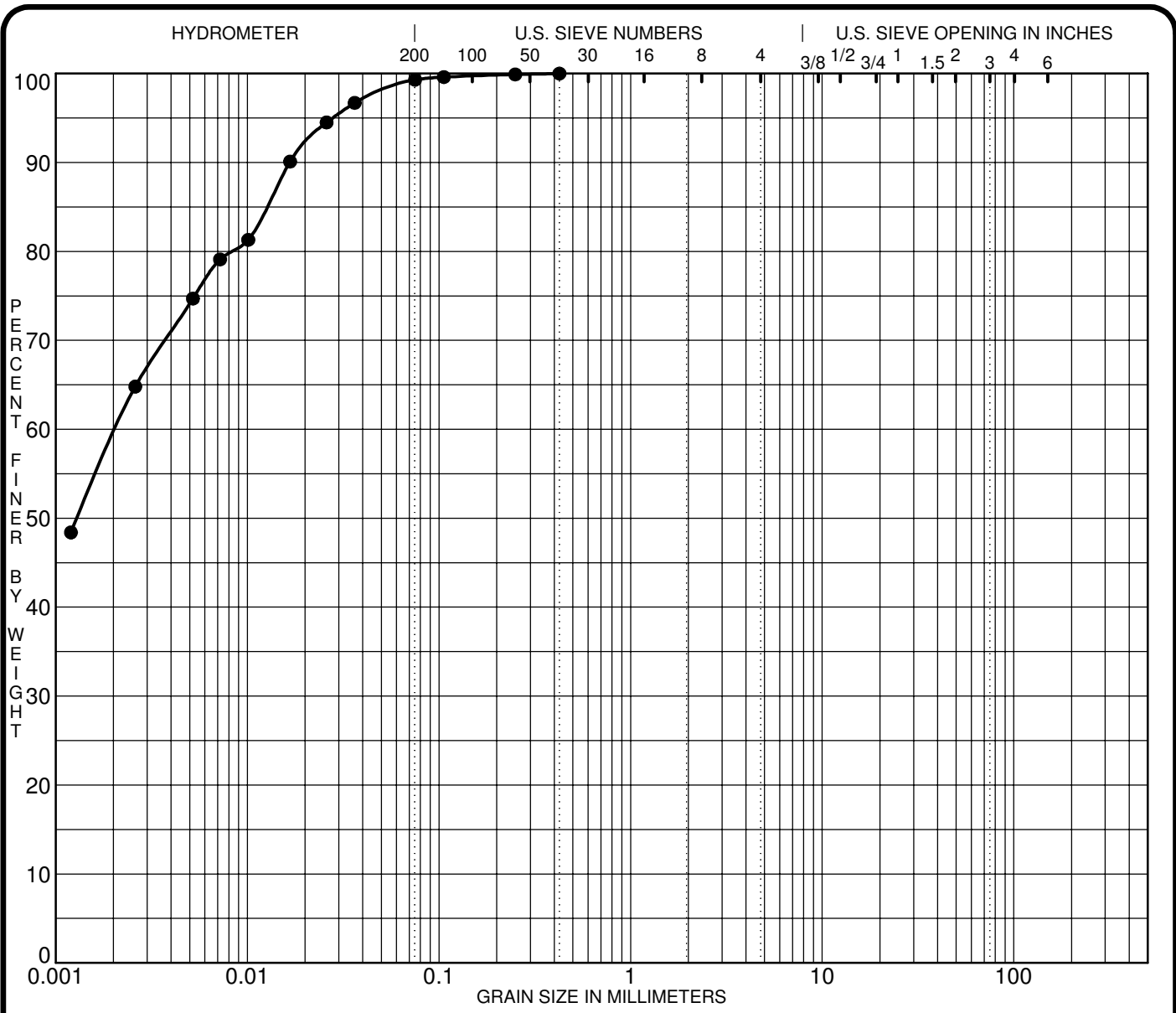
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH53-22 SS5										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH53-22 SS5	0.43	0.00			0.0	0.8	99.2			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 24 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

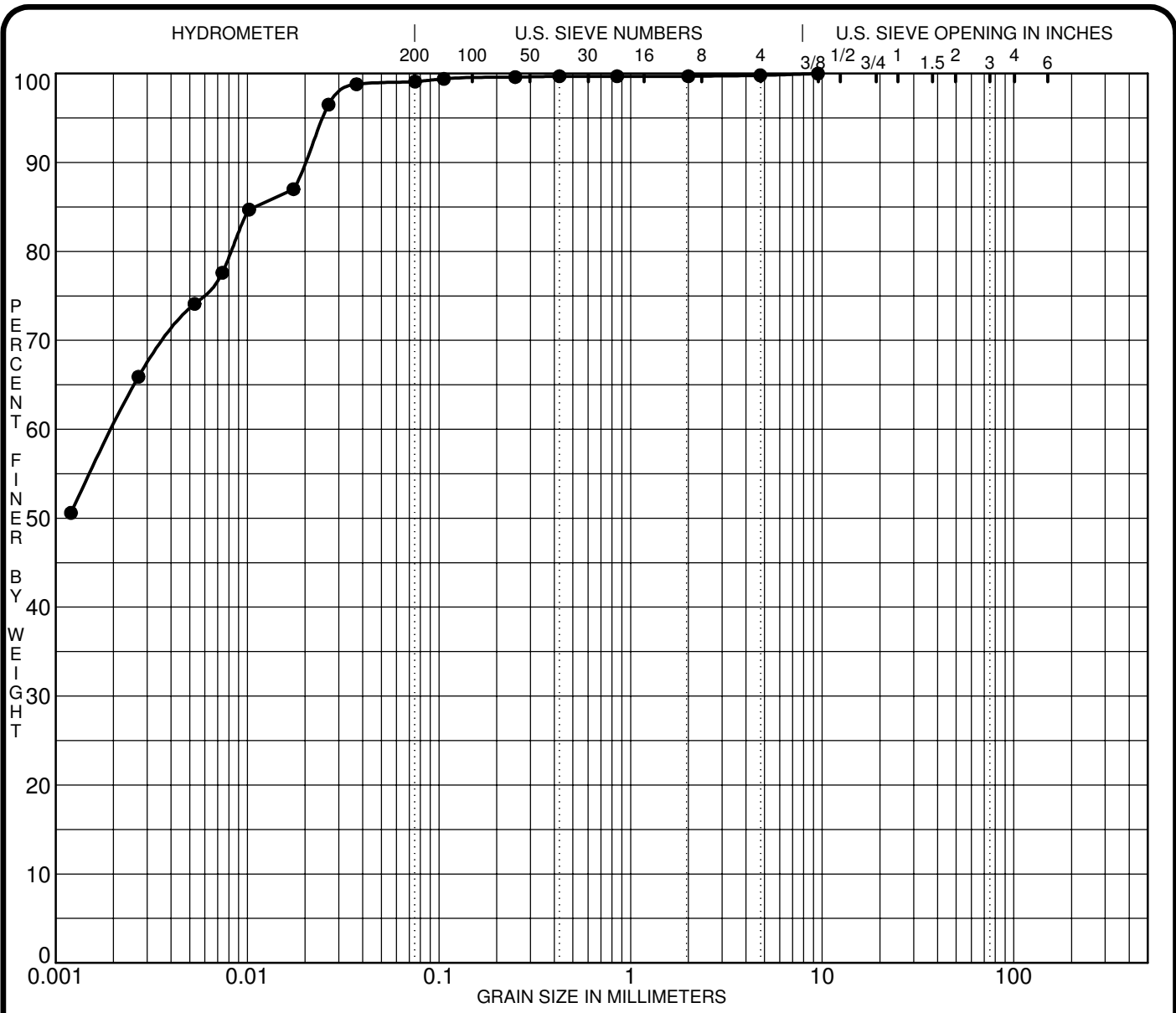
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH54-22 SS7										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH54-22 SS7	0.43	0.00			0.0	0.7	99.3			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 24 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

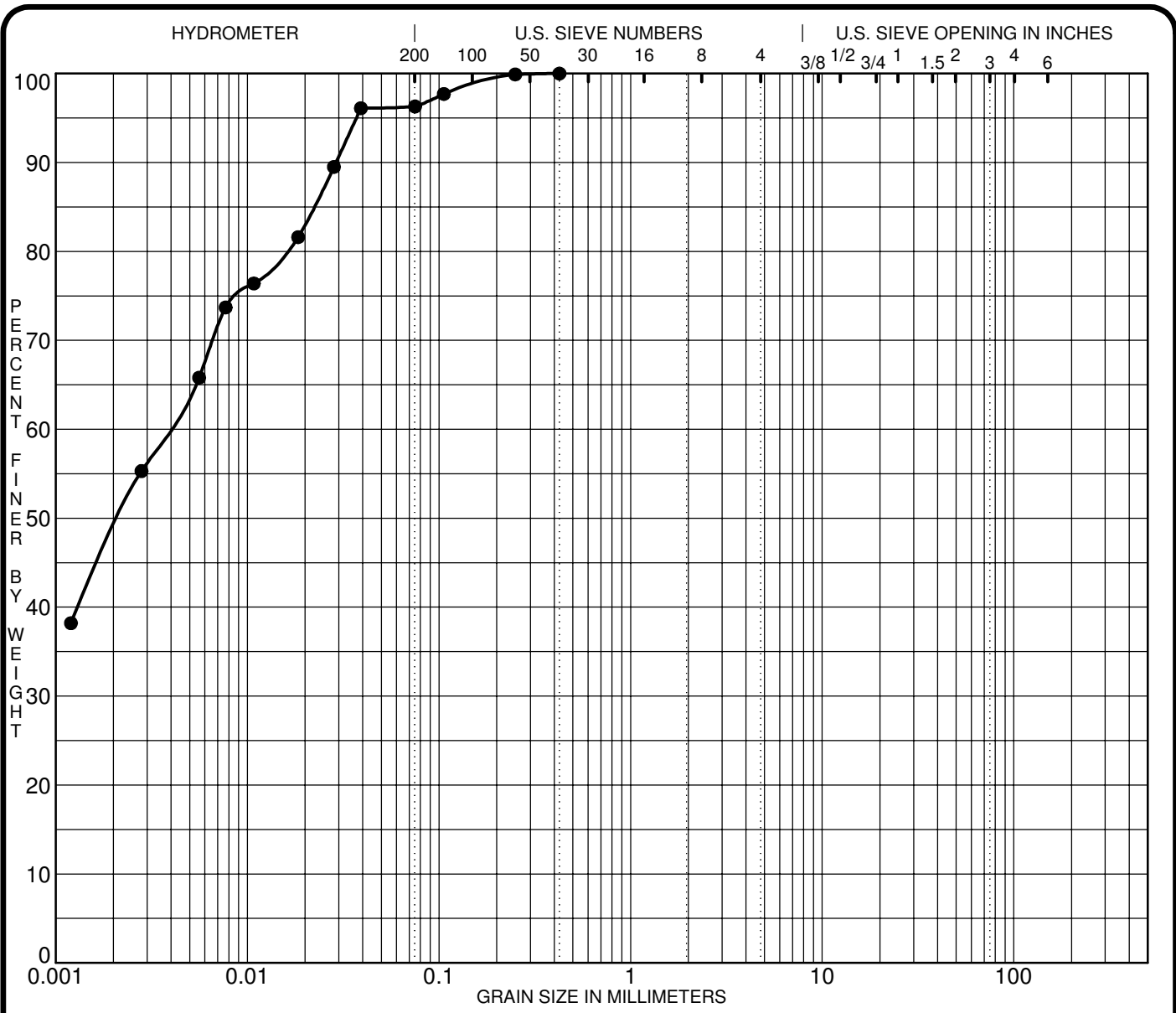
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH55-22 SS5										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH55-22 SS5	9.50	0.00			0.2	0.7	99.1			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 24 Mar 22

**paterosongroup** Consulting Engineers  
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**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH56A-22 SS2										
☒										
▲										
★										

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BH56A-22 SS2	0.43	0.00			0.0	3.7	96.3	
☒								
▲								
★								

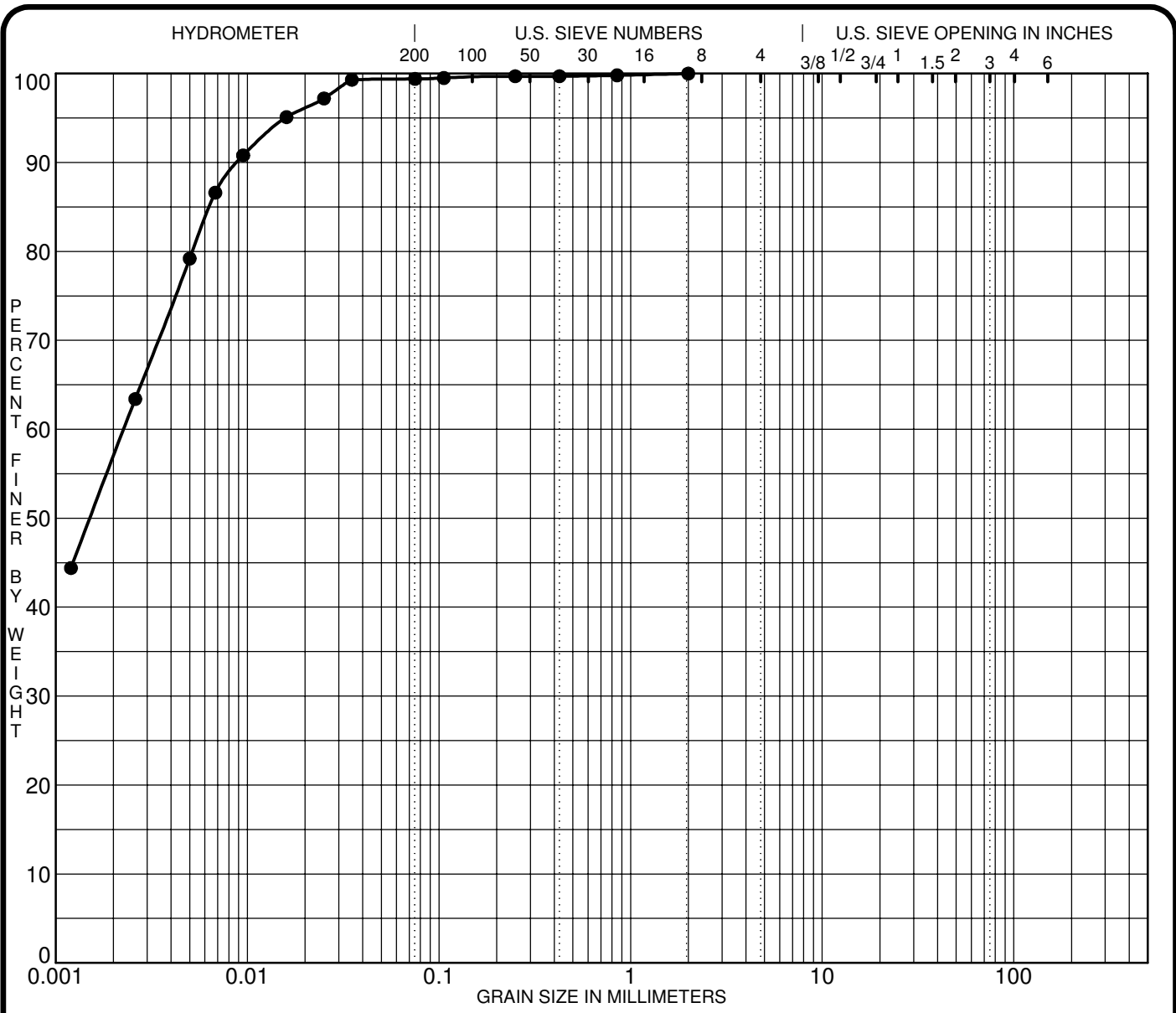
CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 25 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**





SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

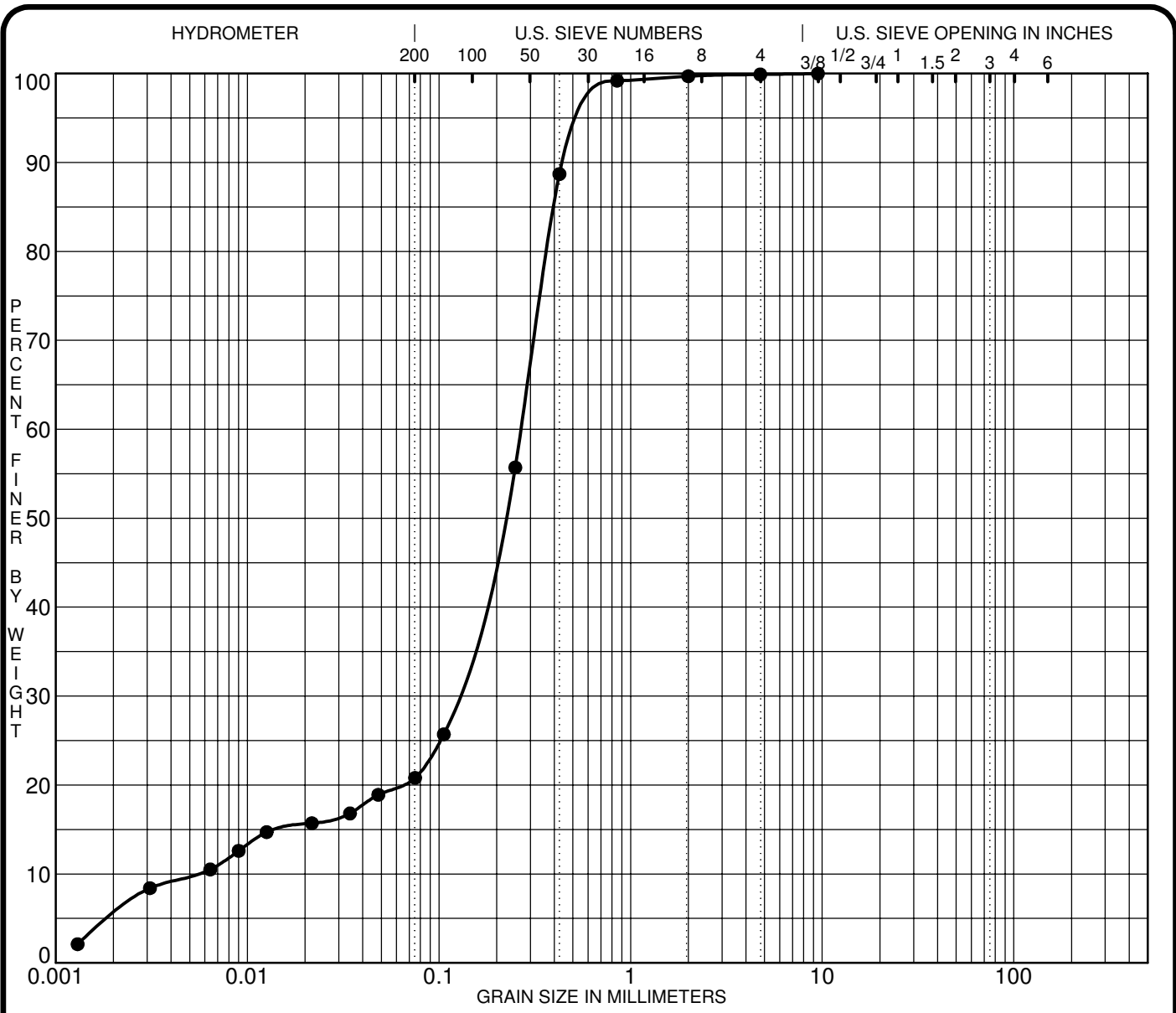
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH57-22 SS12										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH57-22 SS12	2.00	0.00			0.0	0.6	99.4			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 25 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH58-22 SS1									9.96	49.7
☒										
▲										
★										

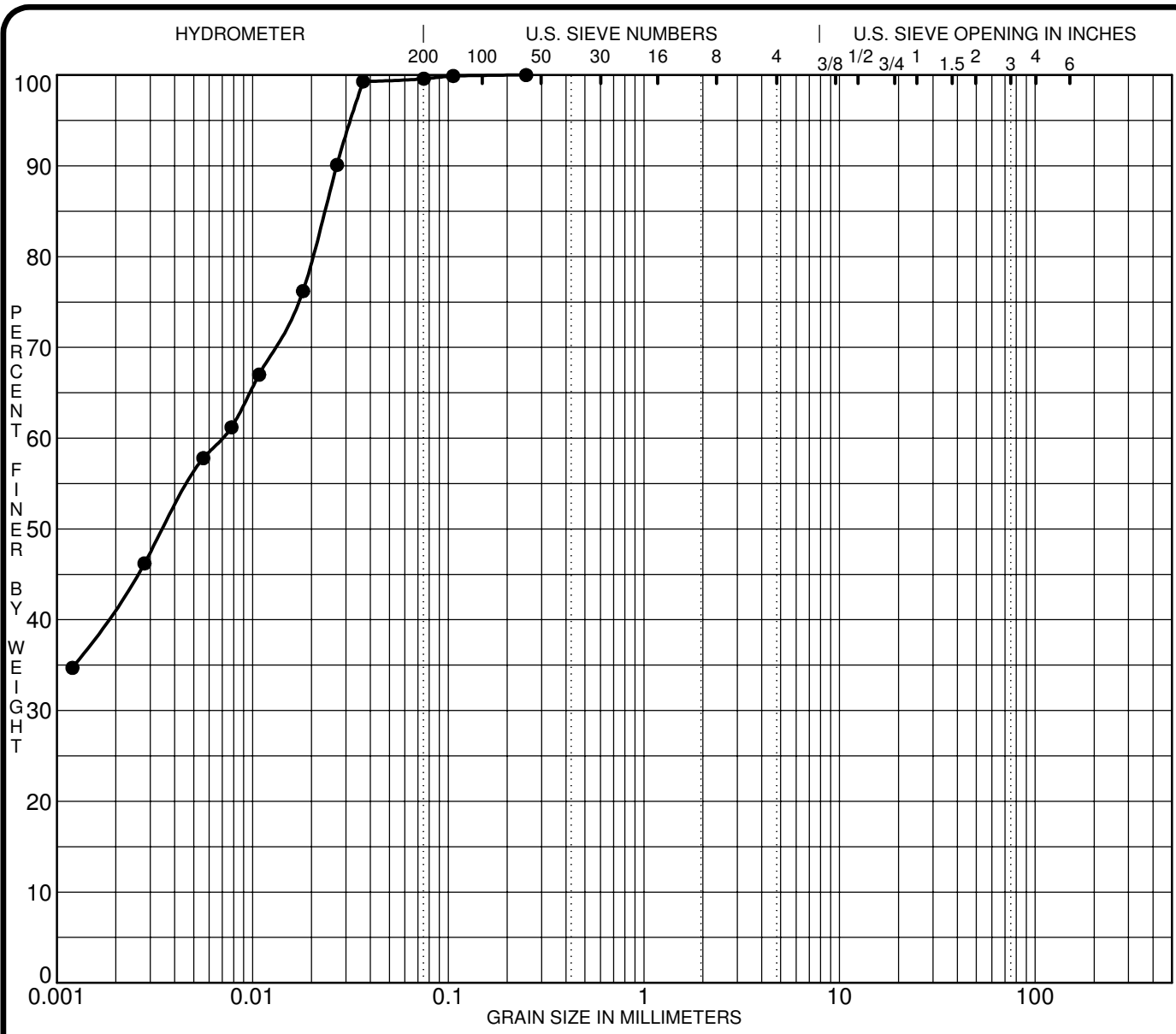
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BH58-22 SS1	9.50	0.27	0.120	0.0054	0.1	79.1	20.8	
☒								
▲								
★								

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 28 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



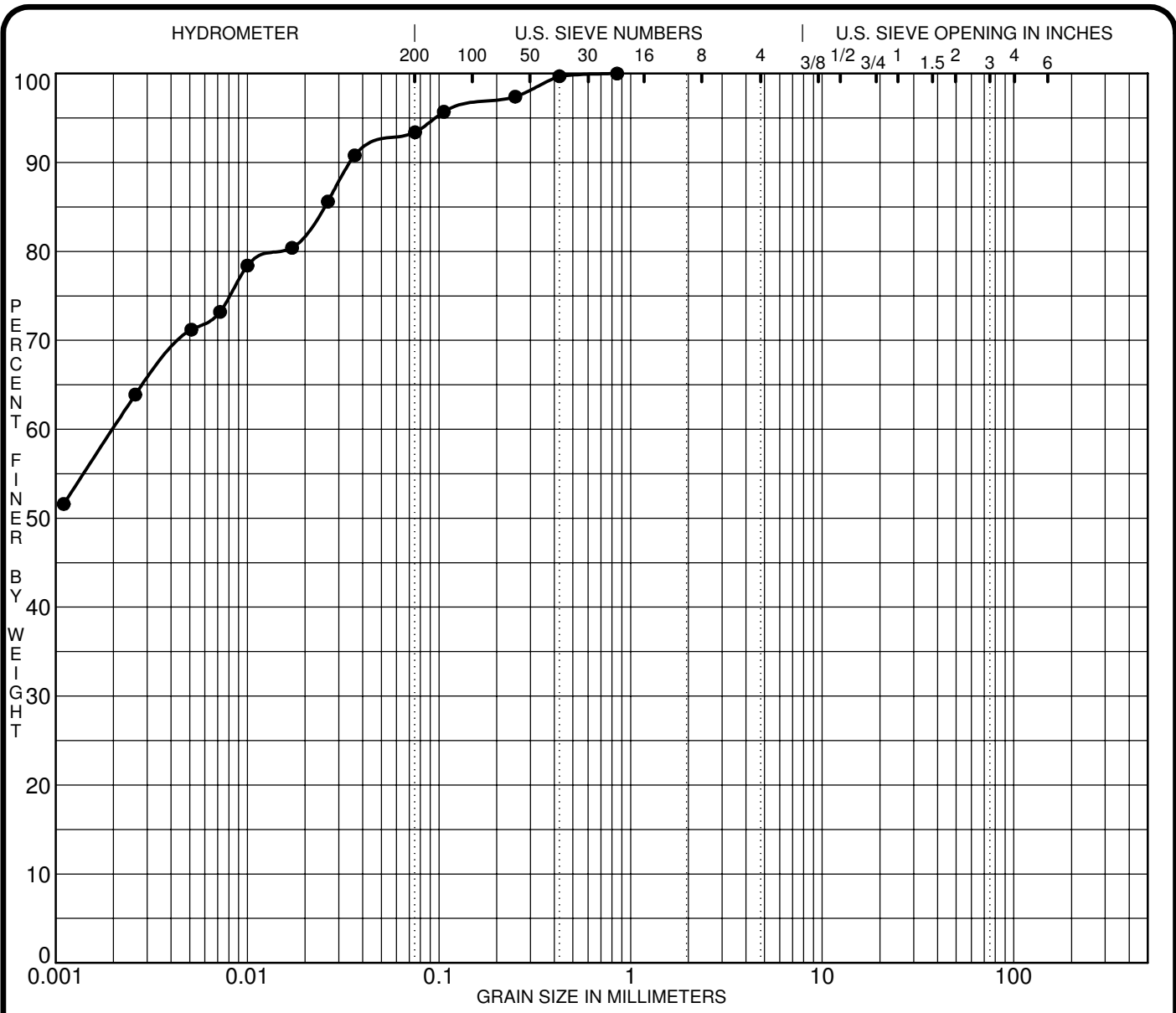
SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH59-22 SS7										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH59-22 SS7	0.25	0.01			0.0	0.4	99.6			
☒										
▲										
★										

CLIENT Taggart Investments FILE NO. PG5827  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use DATE 28 Mar 22  
Community Development

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

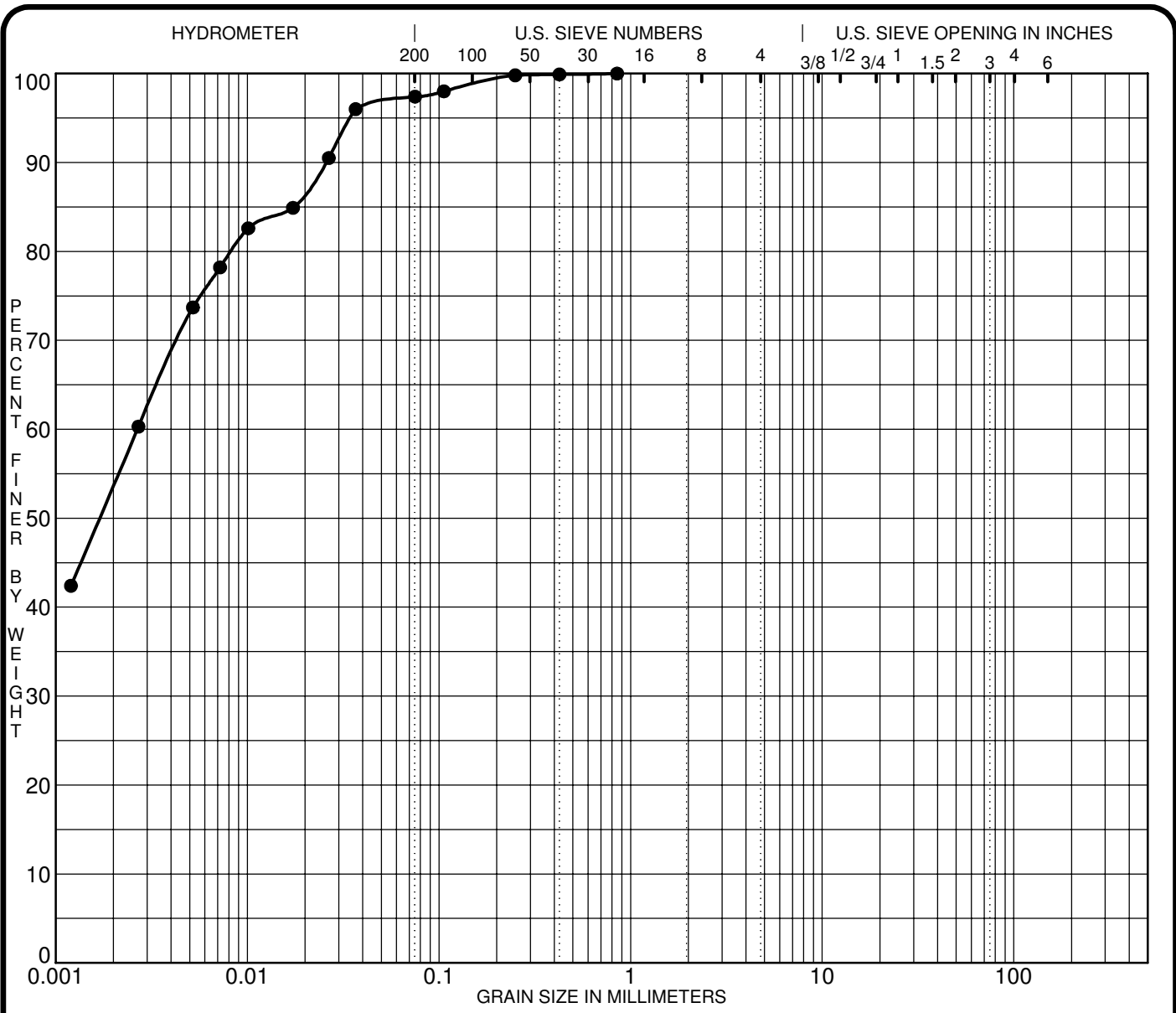
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH59A-22 SS2										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH59A-22 SS2	0.85	0.00			0.0	6.6	93.4			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 28 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

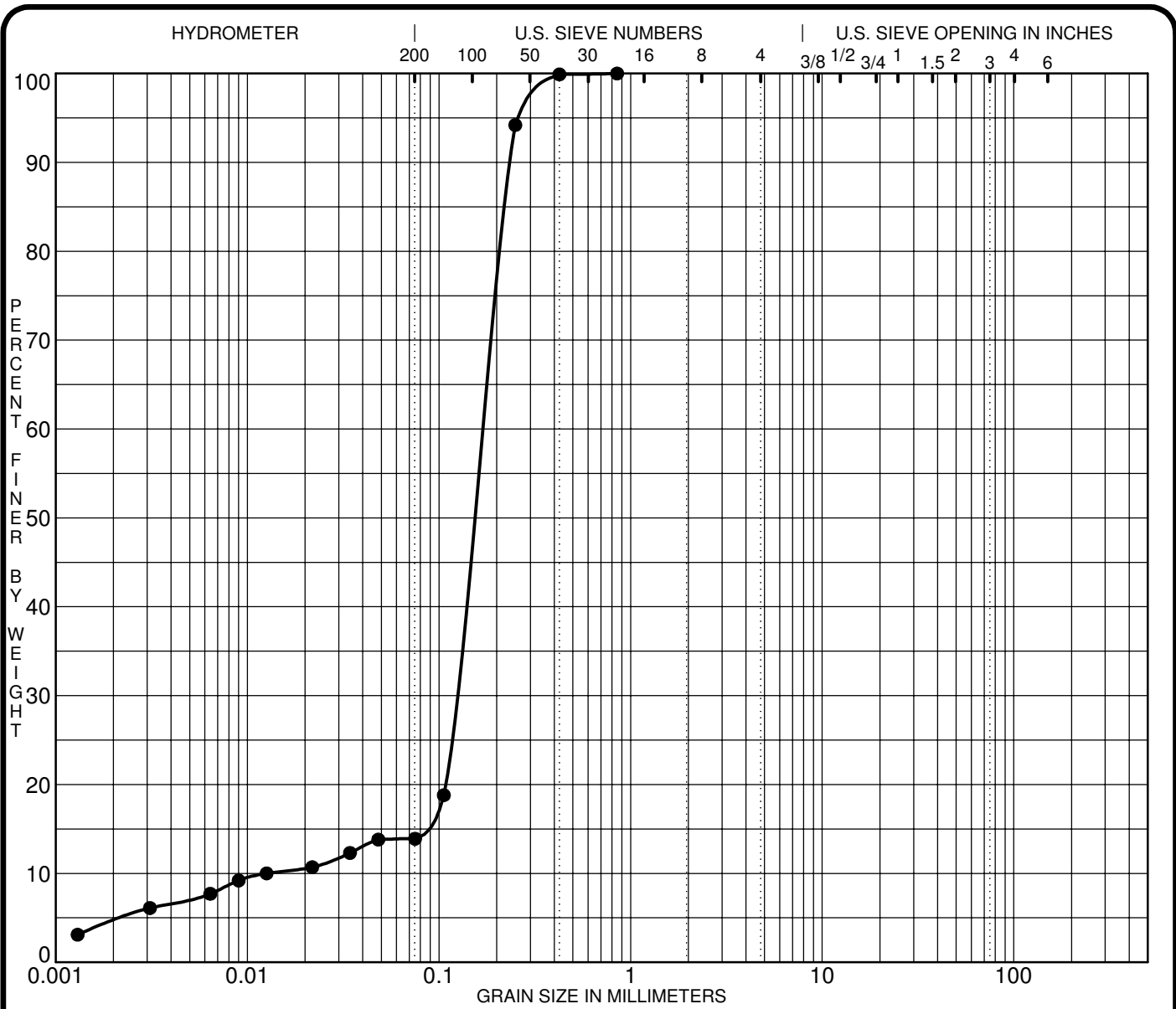
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH60-22 SS3										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH60-22 SS3	0.85	0.00			0.0	2.6	97.4			
☒										
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★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 29 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

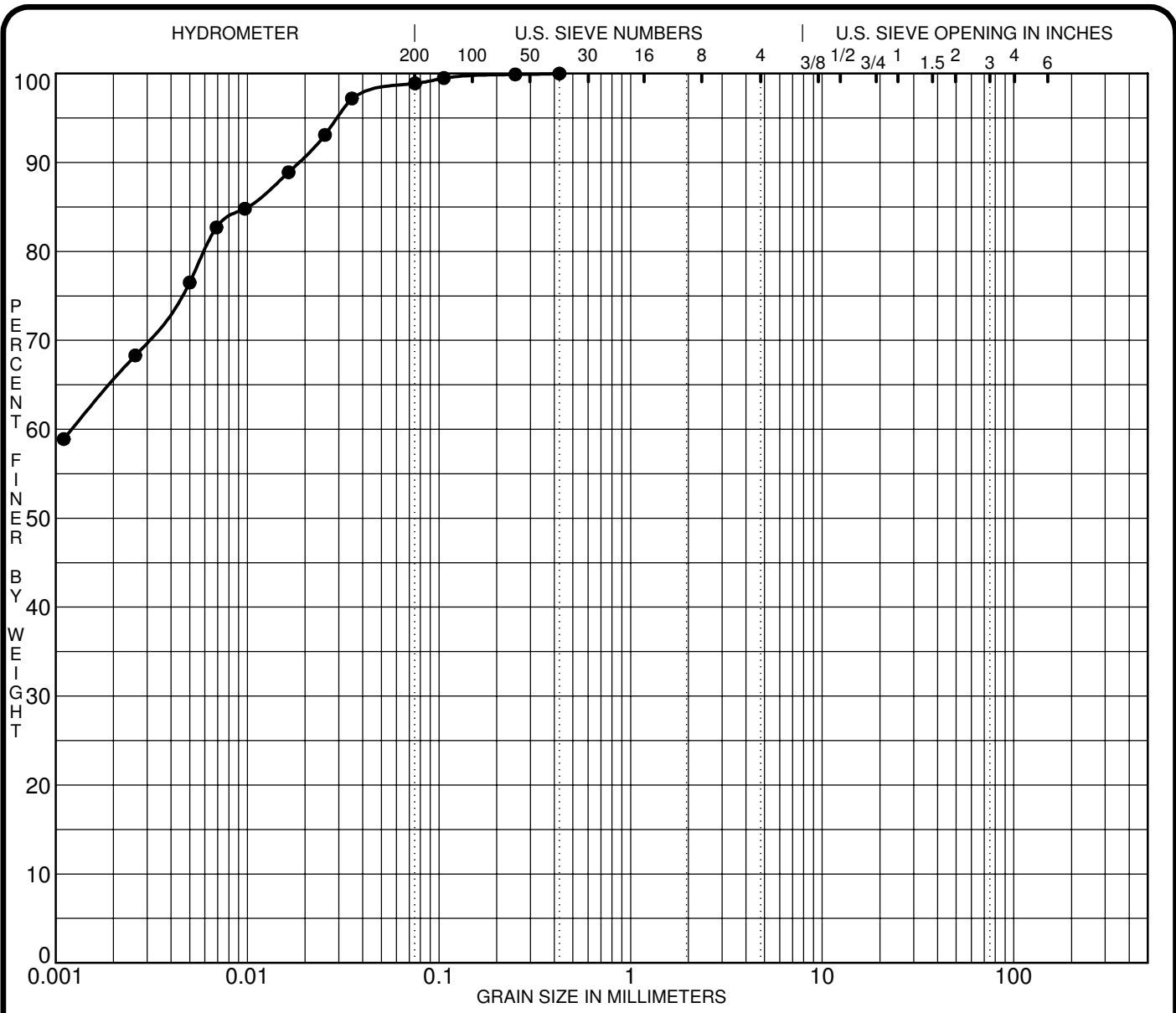
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH60A-22 SS1									6.79	13.4
☒										
▲										
★										

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BH60A-22 SS1	0.85	0.17	0.120	0.0126	0.0	86.1	13.9	
☒								
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CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 29 Mar 22



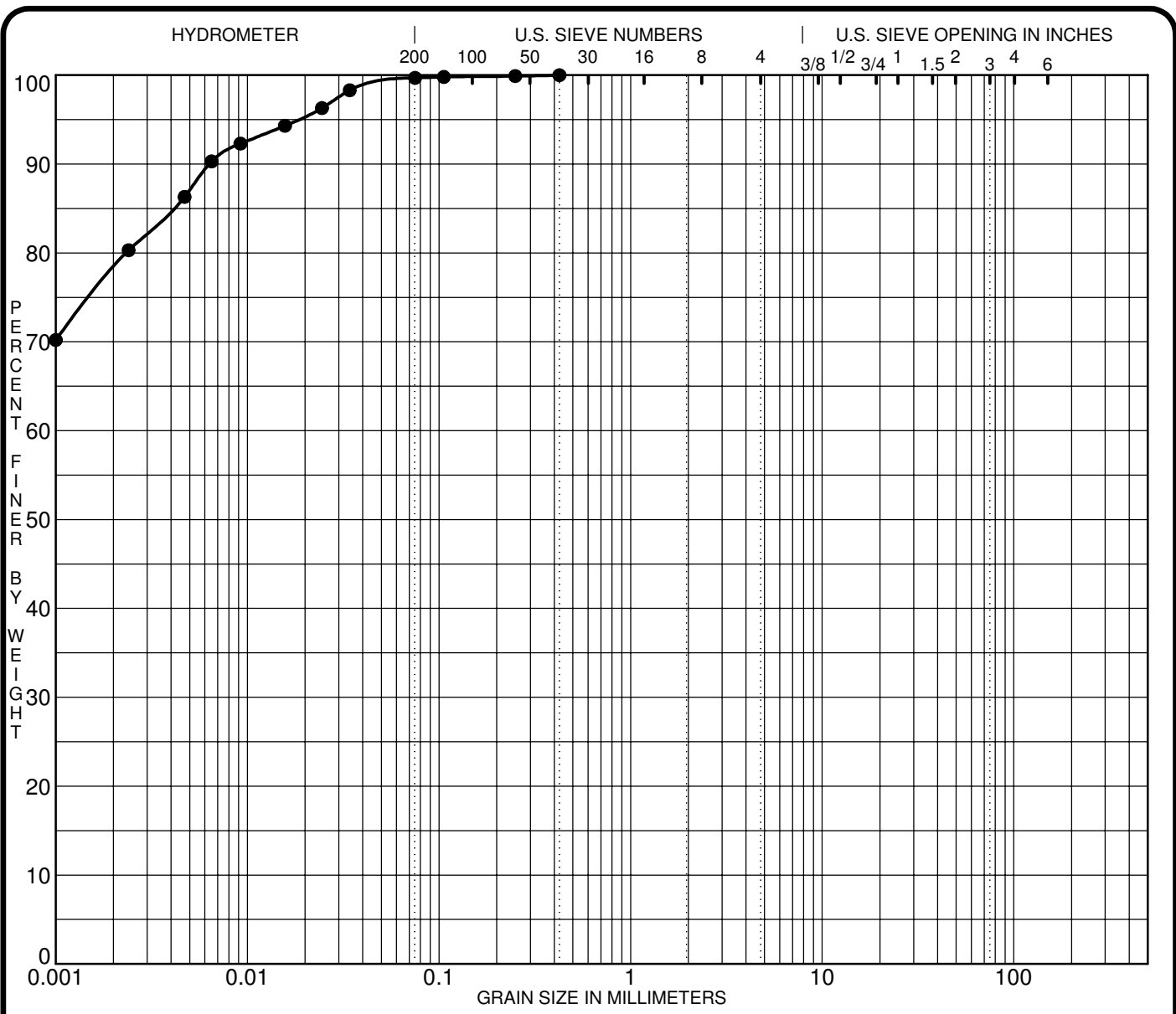
SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH61-22 SS3										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH61-22 SS3	0.43	0.00			0.0	1.1	98.9			
☒										
▲										
★										

CLIENT	<u>Taggart Investments</u>	FILE NO.	<u>PG5827</u>
PROJECT	<u>Geotechnical Investigation - Proposed Mixed-Use Community Development</u>	DATE	<u>29 Mar 22</u>

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH62-22 SS6										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH62-22 SS6	0.43				0.0	0.3	99.7			
☒										
▲										
★										

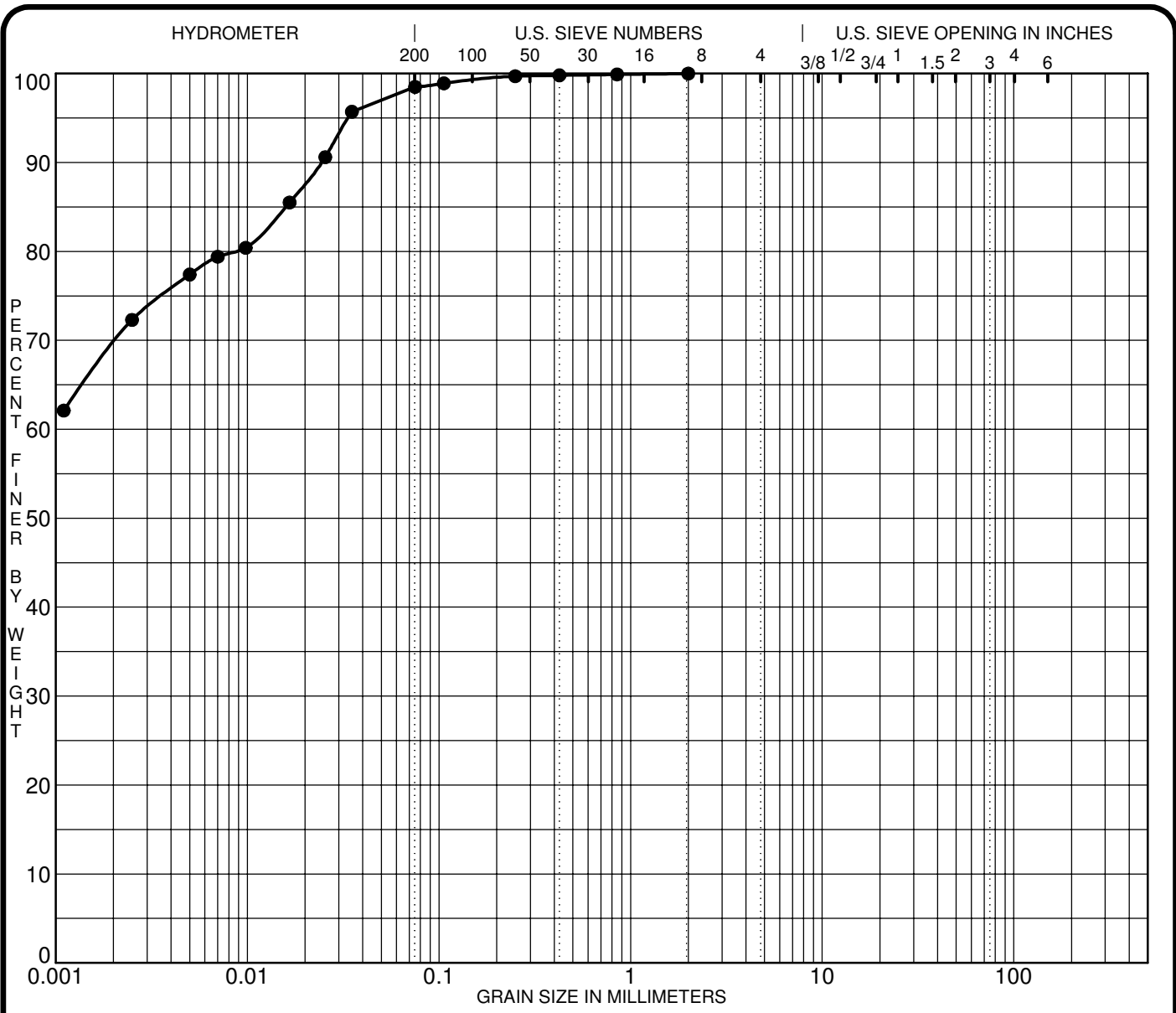
CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 30 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**





SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH63-22 SS3										
☒										
▲										
★										

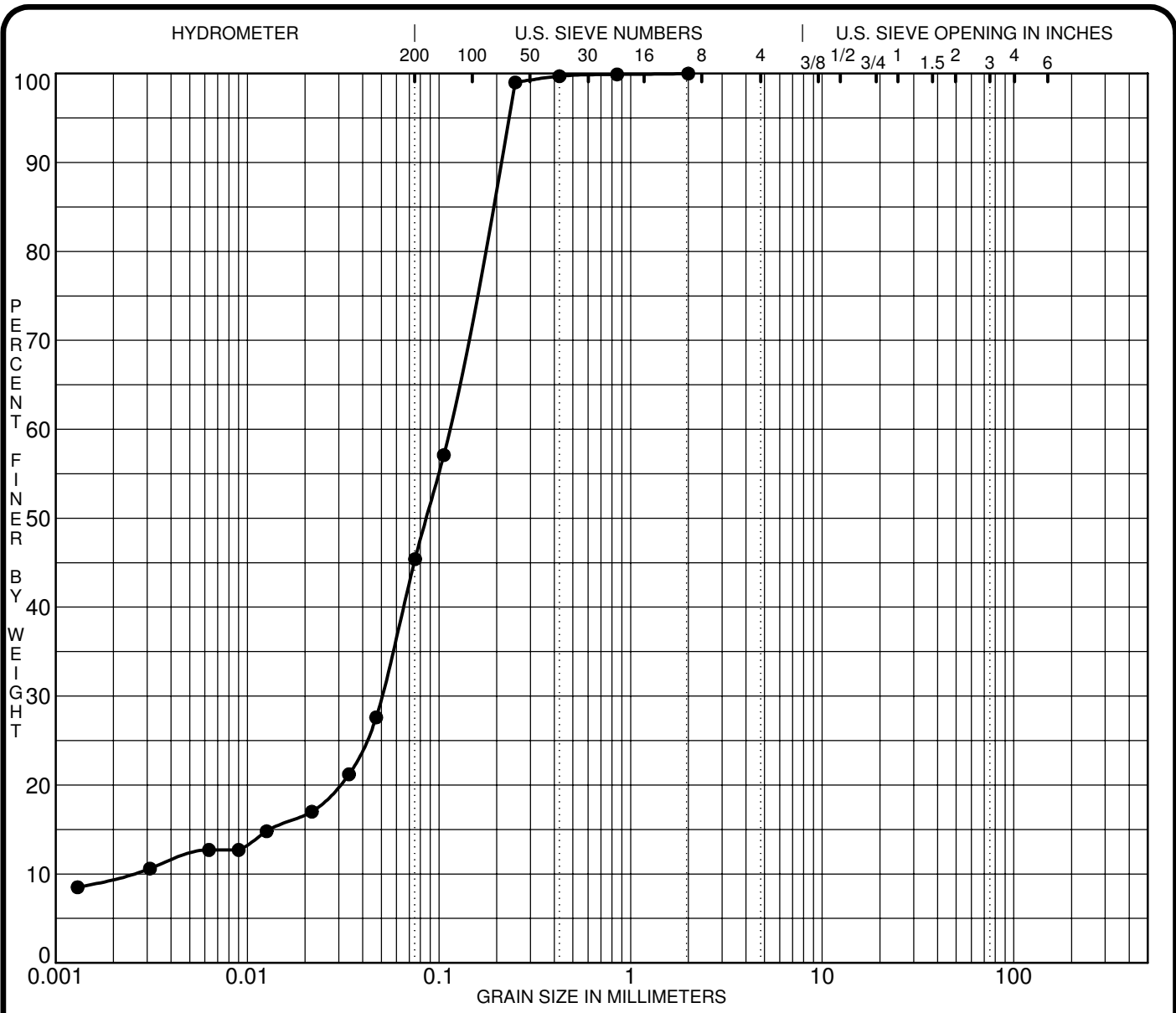
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BH63-22 SS3	2.00				0.0	1.5	98.5	
☒								
▲								
★								

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 30 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

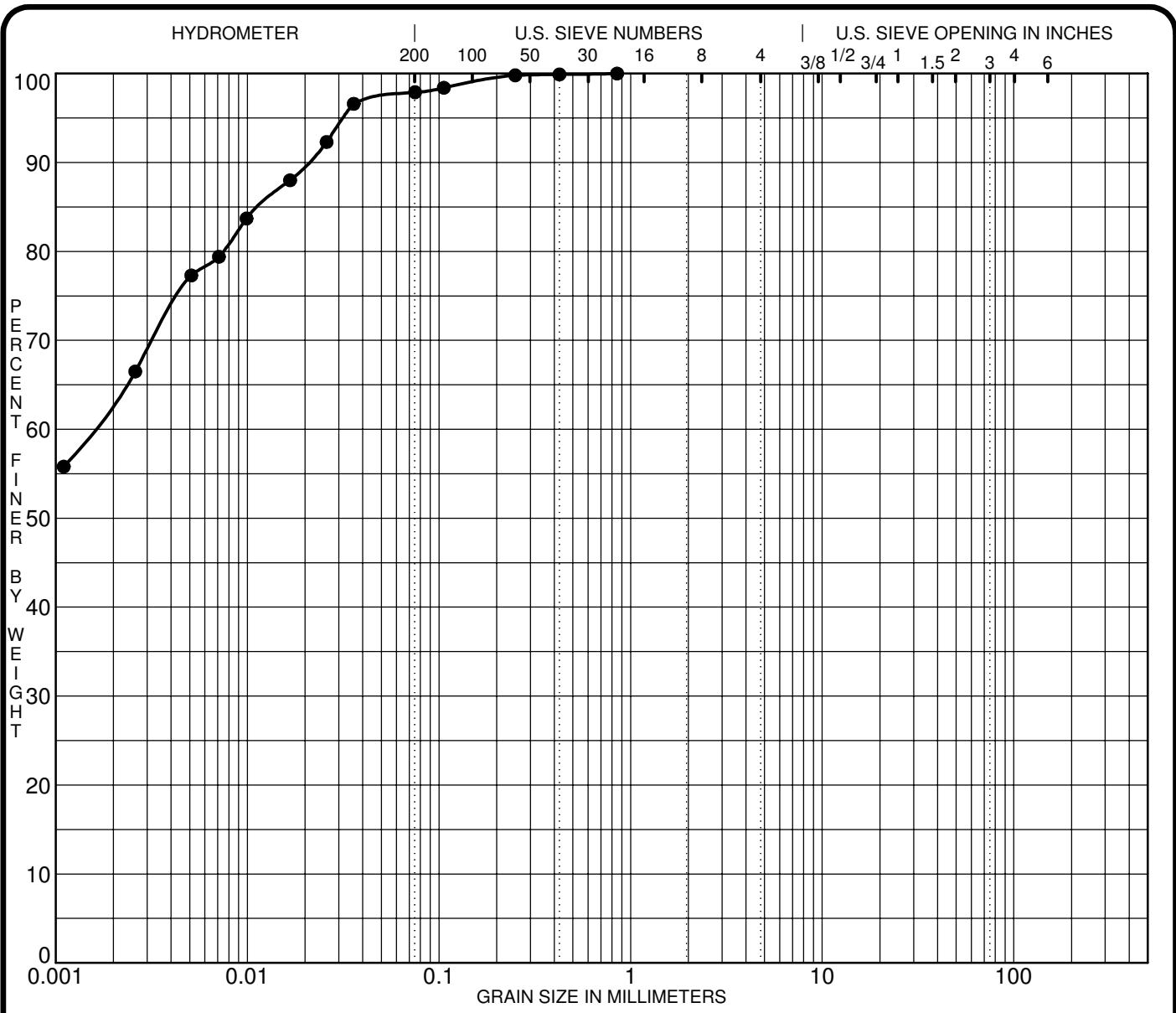
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH63A-22 SS1									9.21	46.5
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH63A-22 SS1	2.00	0.11	0.050	0.0024	0.0	54.6	45.4			
☒										
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★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 30 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

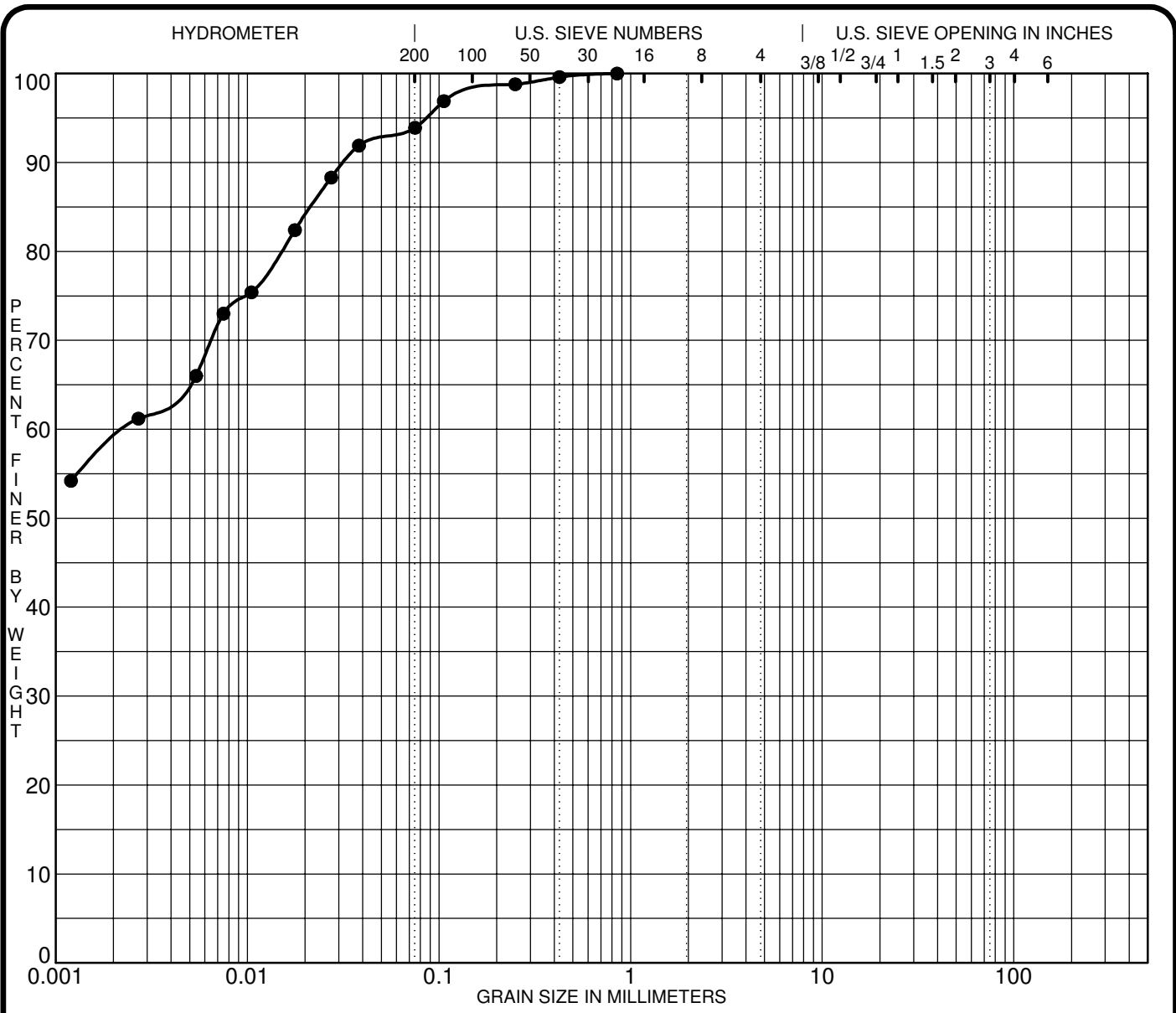
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH64-22 SS5										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH64-22 SS5	0.85	0.00			0.0	2.1	97.9			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 30 Mar 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH65-22										
☒										
▲										
★										

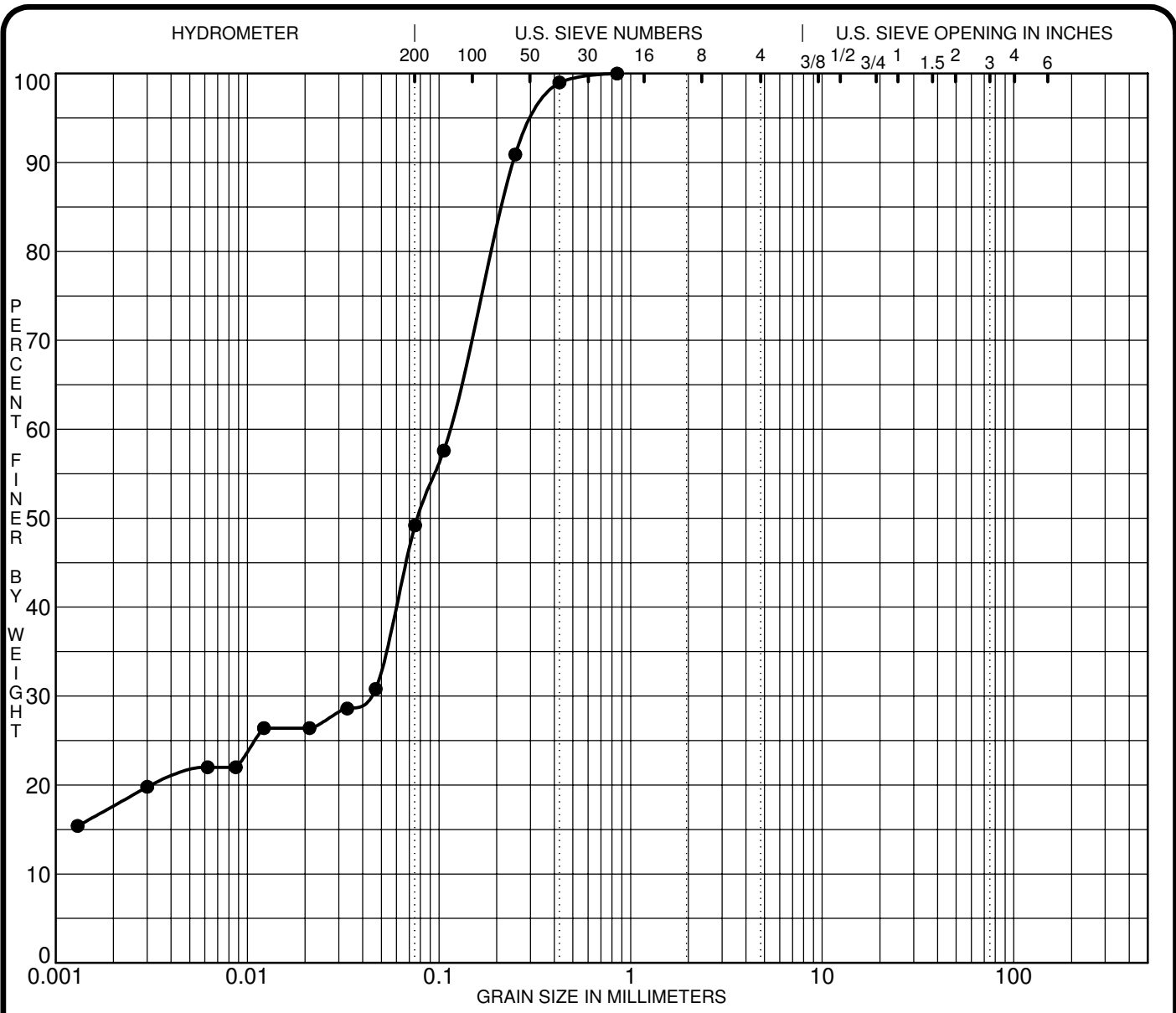
  

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BH65-22	0.85	0.00			0.0	6.1	93.9	
☒								
▲								
★								

CLIENT	<u>Taggart Investments</u>	FILE NO.	<u>PG5827</u>
PROJECT	<u>Geotechnical Investigation - Proposed Mixed-Use Community Development</u>	DATE	<u>31 Mar 22</u>

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification					MC%	LL	PL	PI	Cc	Cu
● BH68-22 SS1/2											
☒											
▲											
★											

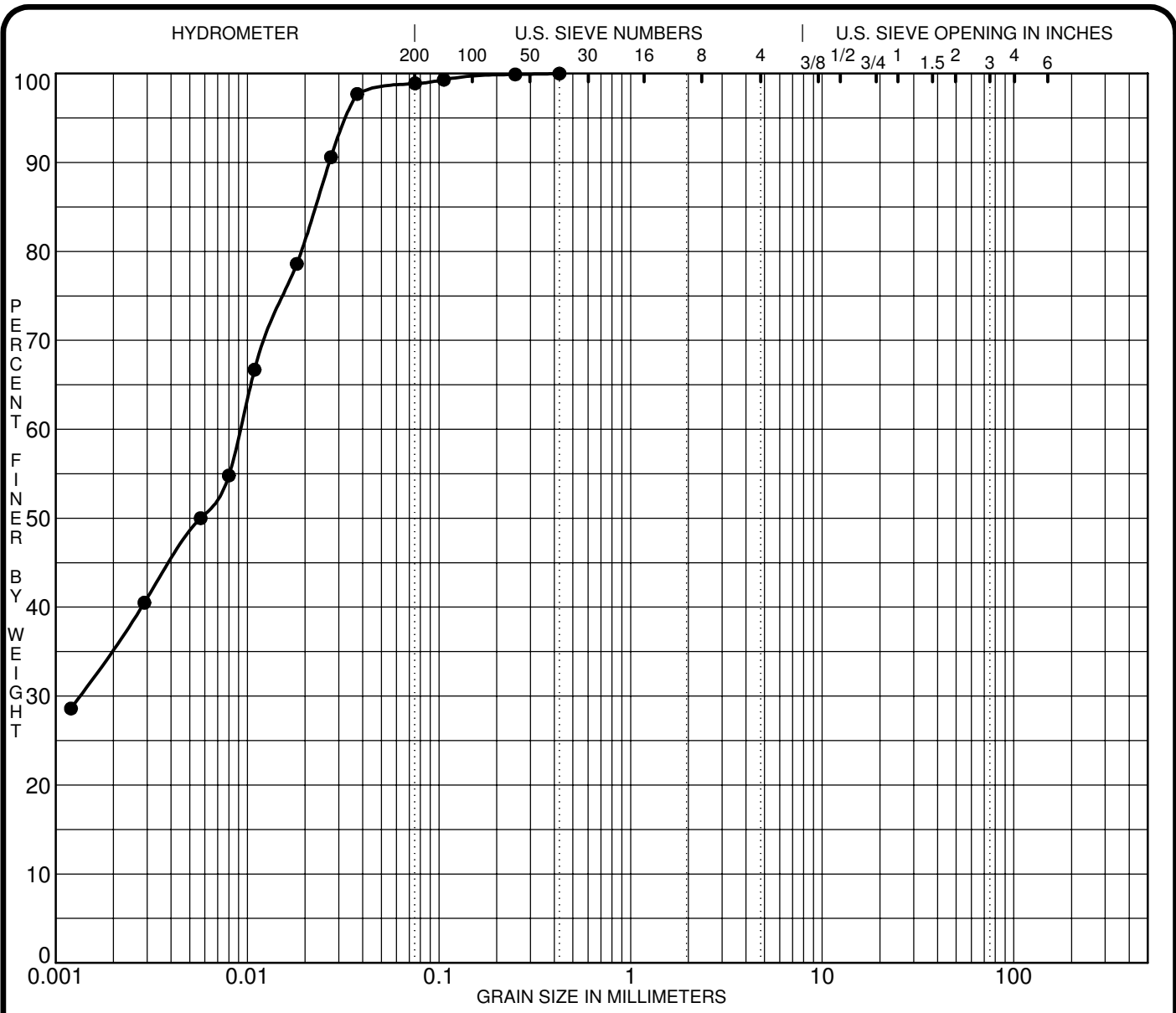
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BH68-22 SS1/2	0.85	0.11	0.041		0.0	50.8	49.2	
☒								
▲								
★								

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 13 Apr 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

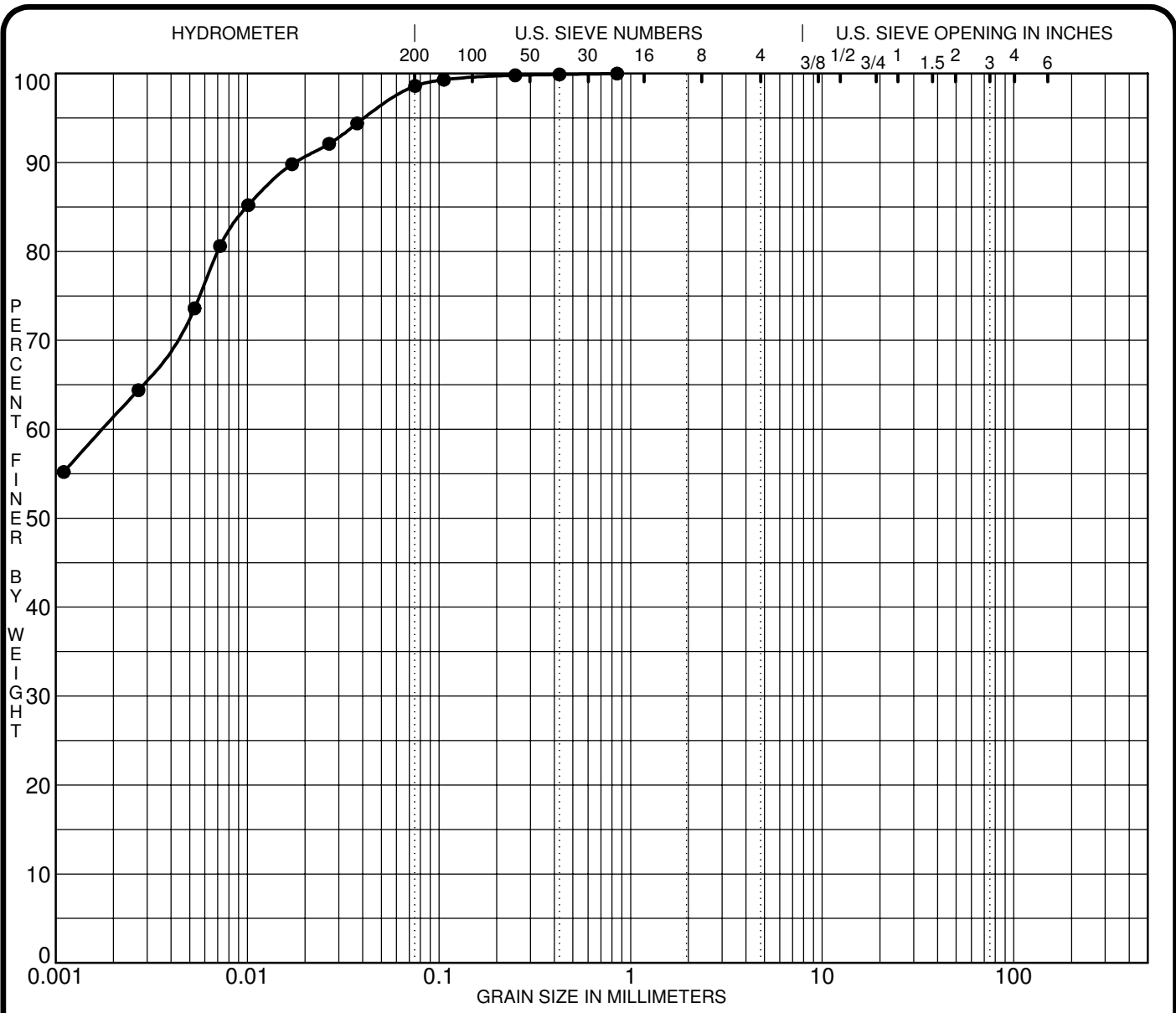
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH69-22 SS3										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH69-22 SS3	0.43	0.01	0.001		0.0	1.1	98.9			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 13 Apr 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

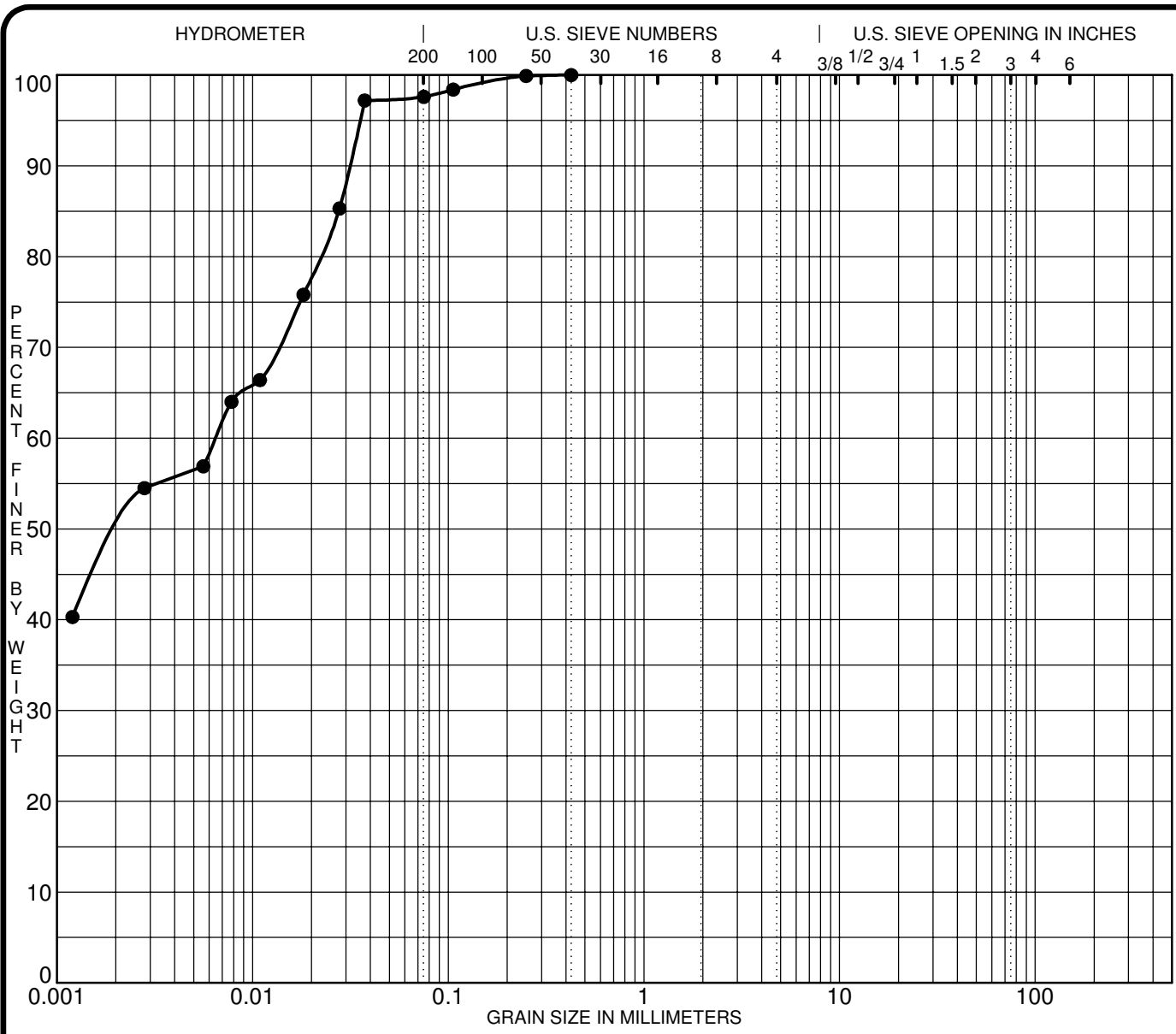
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH69A-22 SS1										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH69A-22 SS1	0.85	0.00			0.0	1.4	98.6			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 13 Apr 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

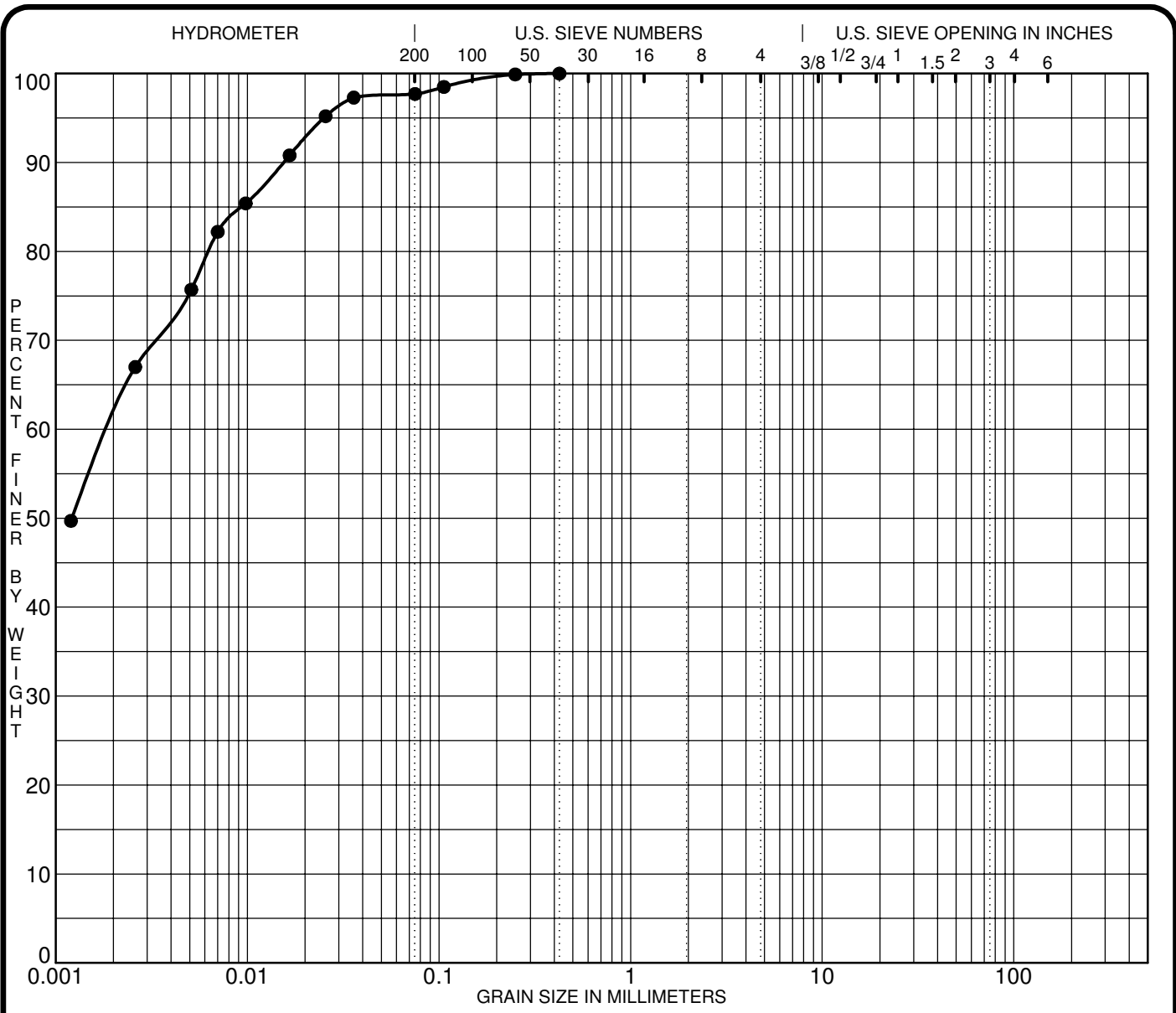
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH71-22 SS4										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH71-22 SS4	0.43	0.01			0.0	2.4	97.6			
☒										
▲										
★										

CLIENT Taggart Investments FILE NO. PG5827  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use DATE 2 Jun 22  
Community Development

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**





SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH72-22 SS4										
☒										
▲										
★										

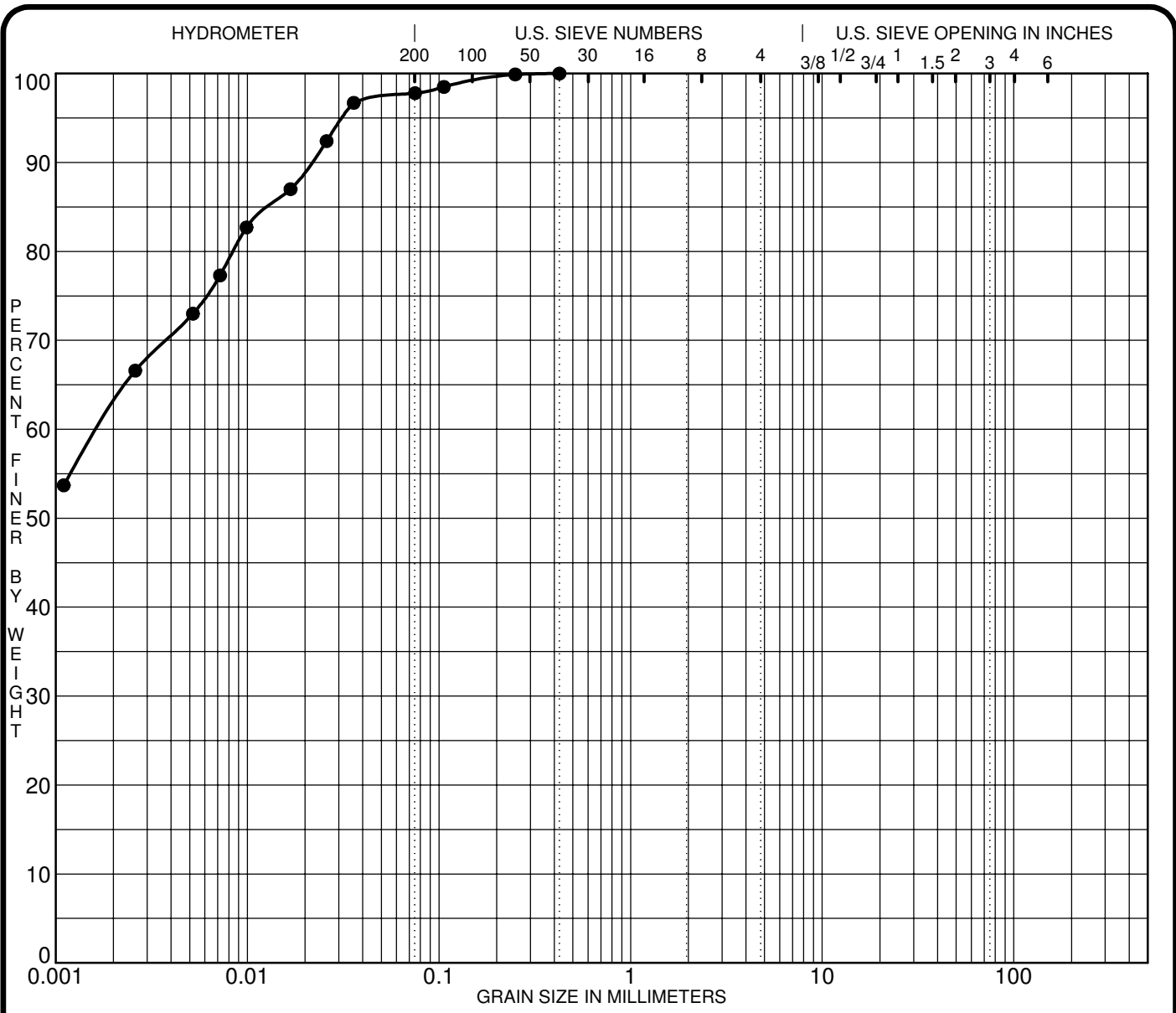
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BH72-22 SS4	0.43	0.00			0.0	2.3	97.7	
☒								
▲								
★								

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 27 May 22

**paterosongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

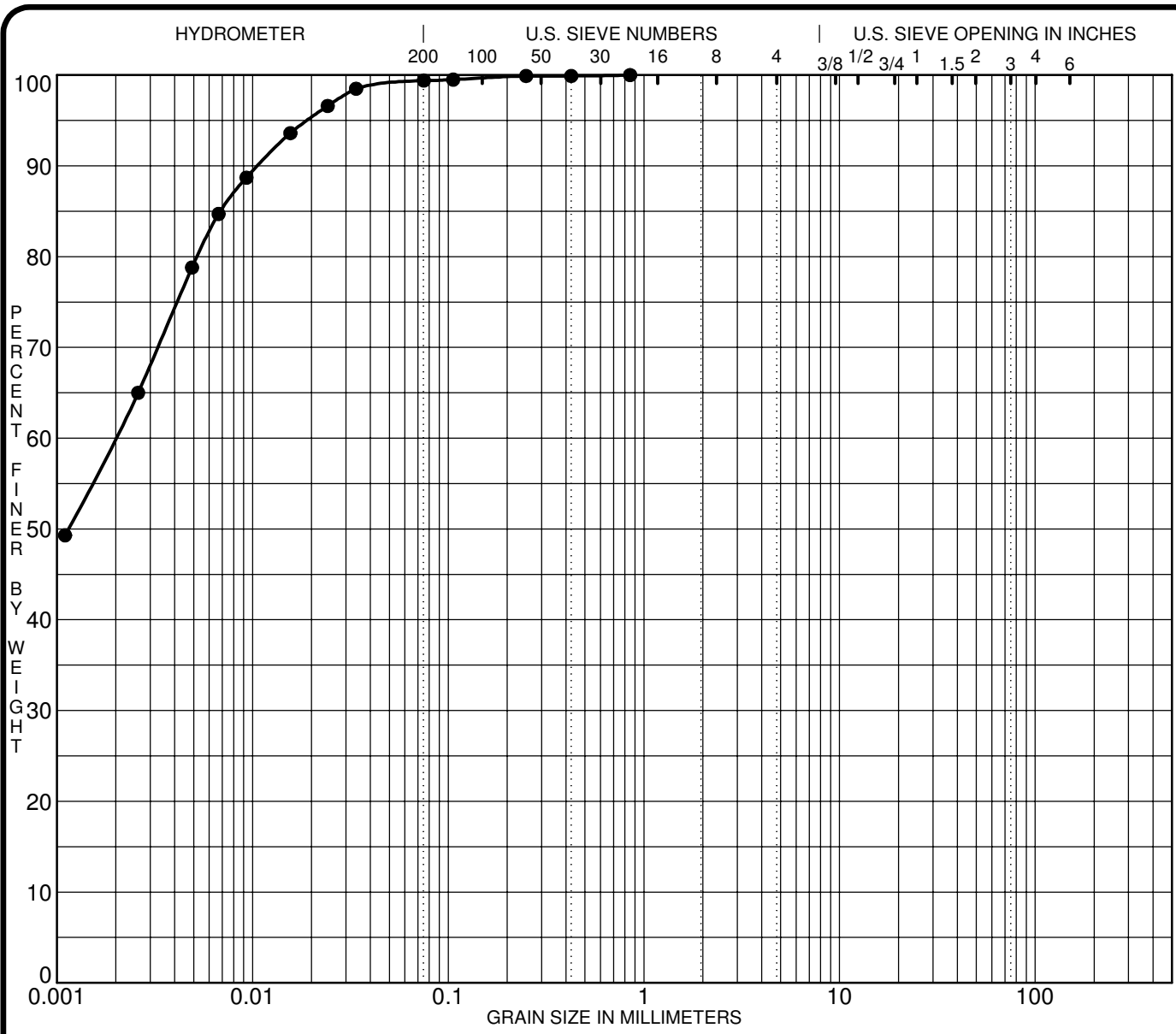
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH25-22 SS5										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH25-22 SS5	0.43	0.00			0.0	2.2	97.8			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 7 Dec 22

**paterongroup** Consulting Engineers  
 9 Auriga Drive, Ottawa, Ontario K2E 7T9

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

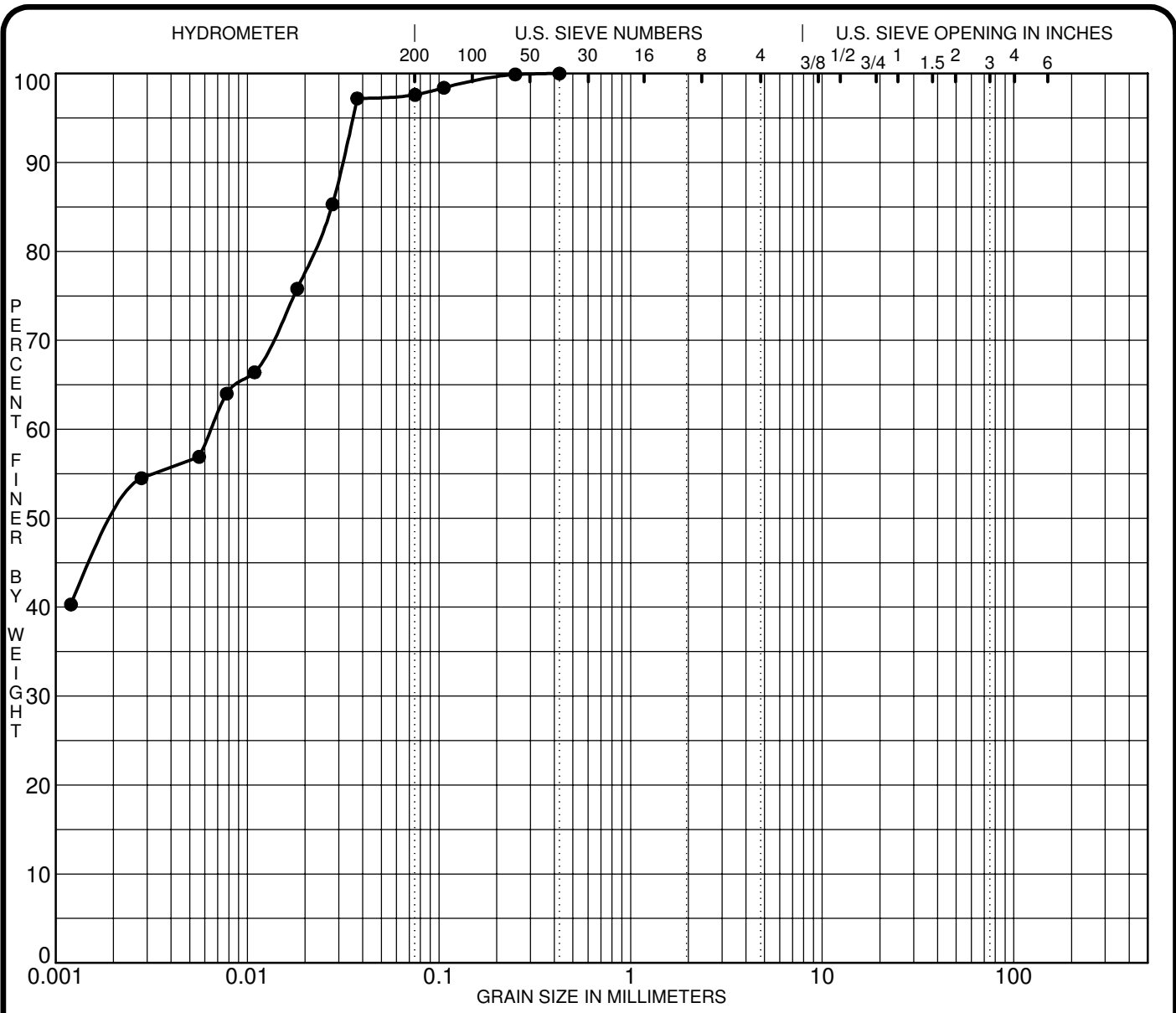
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH70-22 SS7										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH70-22 SS7	0.85	0.00			0.0	0.6	99.4			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 5 Dec 22

**paterosongroup** Consulting Engineers  
 9 Auriga Drive, Ottawa, Ontario K2E 7T9

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

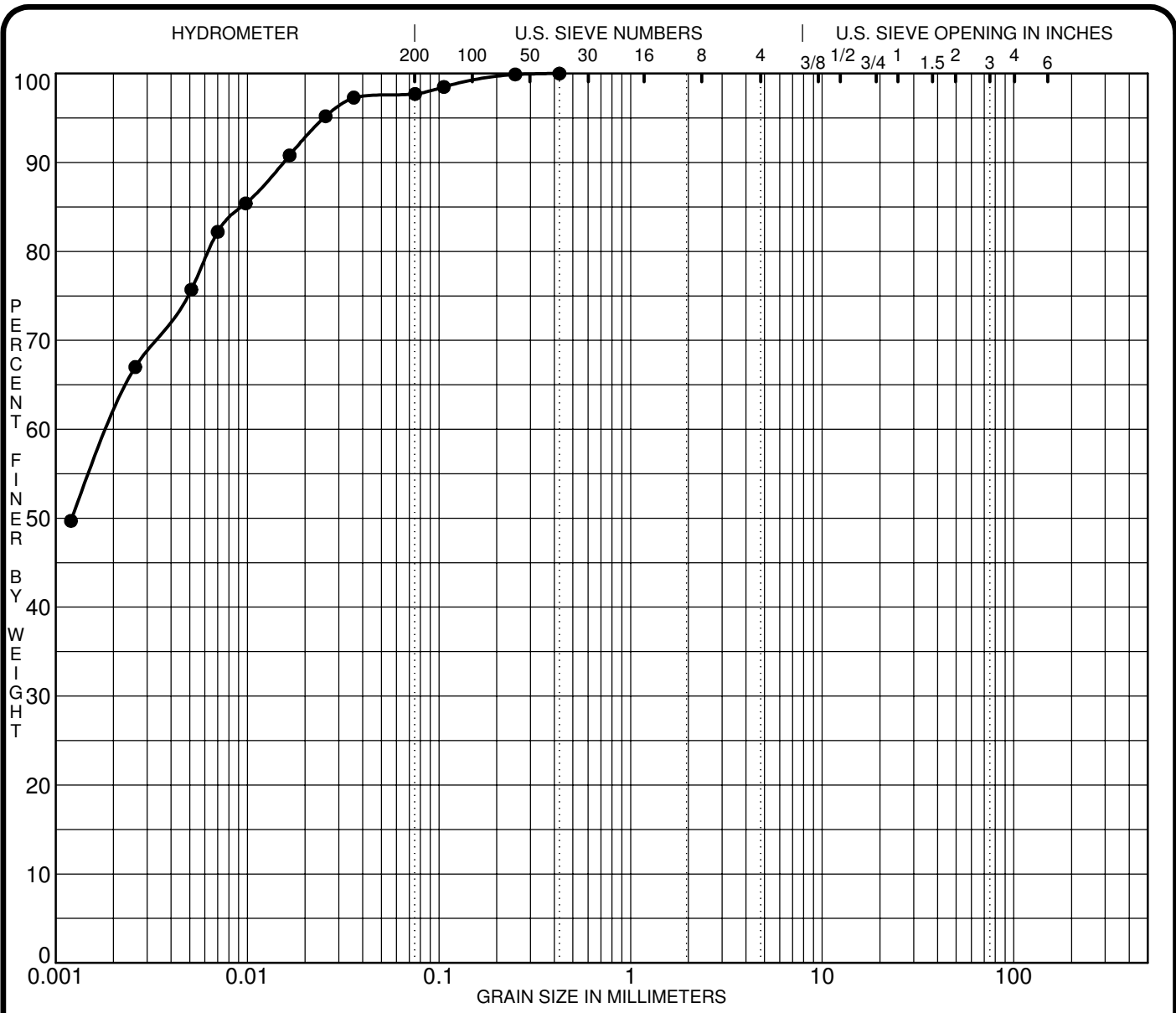
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH71-22 SS4										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH71-22 SS4	0.43	0.01			0.0	2.4	97.6			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 2 Jun 22

**pater-song** Consulting Engineers  
 9 Auriga Drive, Ottawa, Ontario K2E 7T9

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

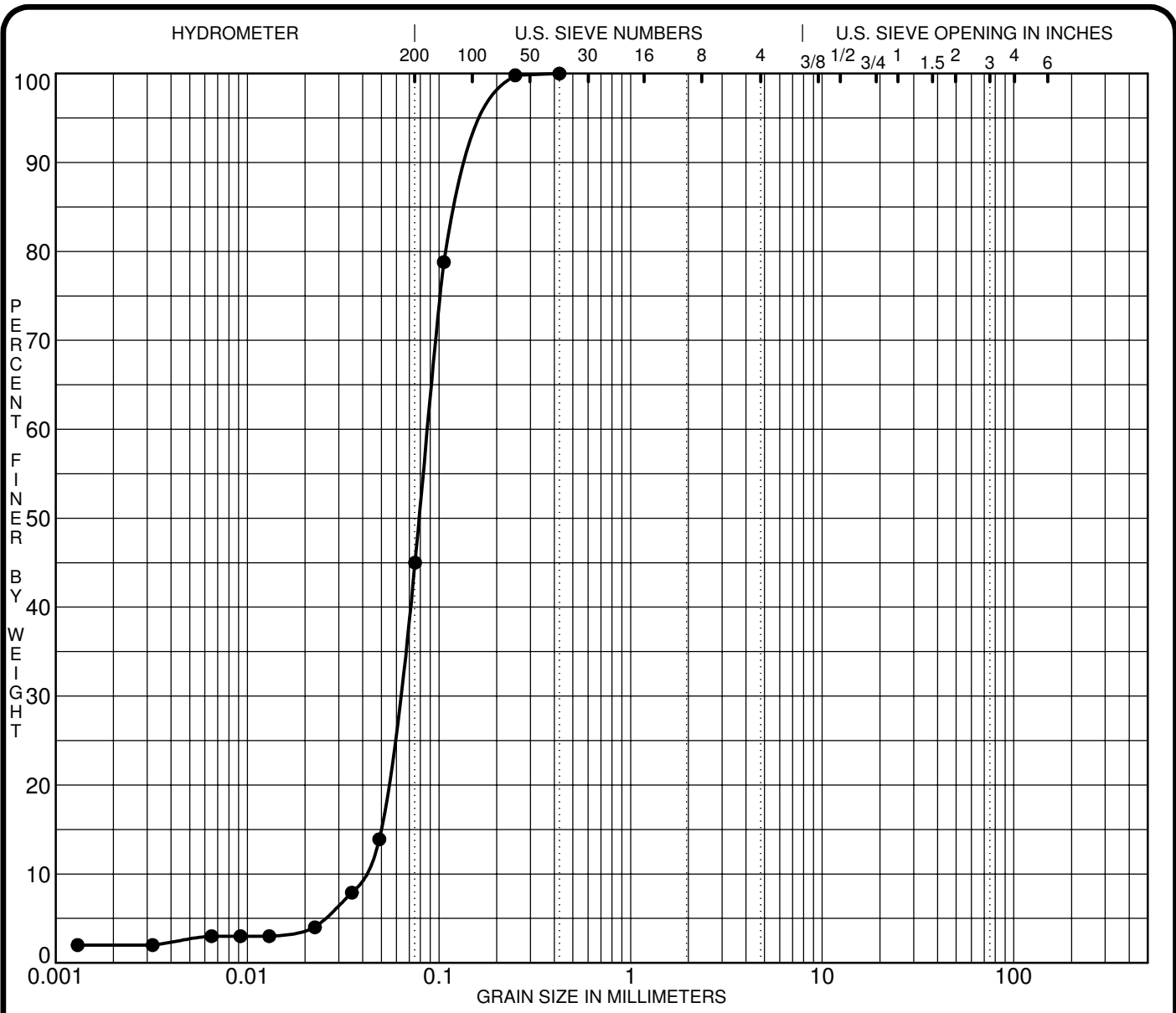
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH72-22 SS4										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH72-22 SS4	0.43	0.00			0.0	2.3	97.7			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 27 May 22

**paterosongroup** Consulting Engineers  
 9 Auriga Drive, Ottawa, Ontario K2E 7T9

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

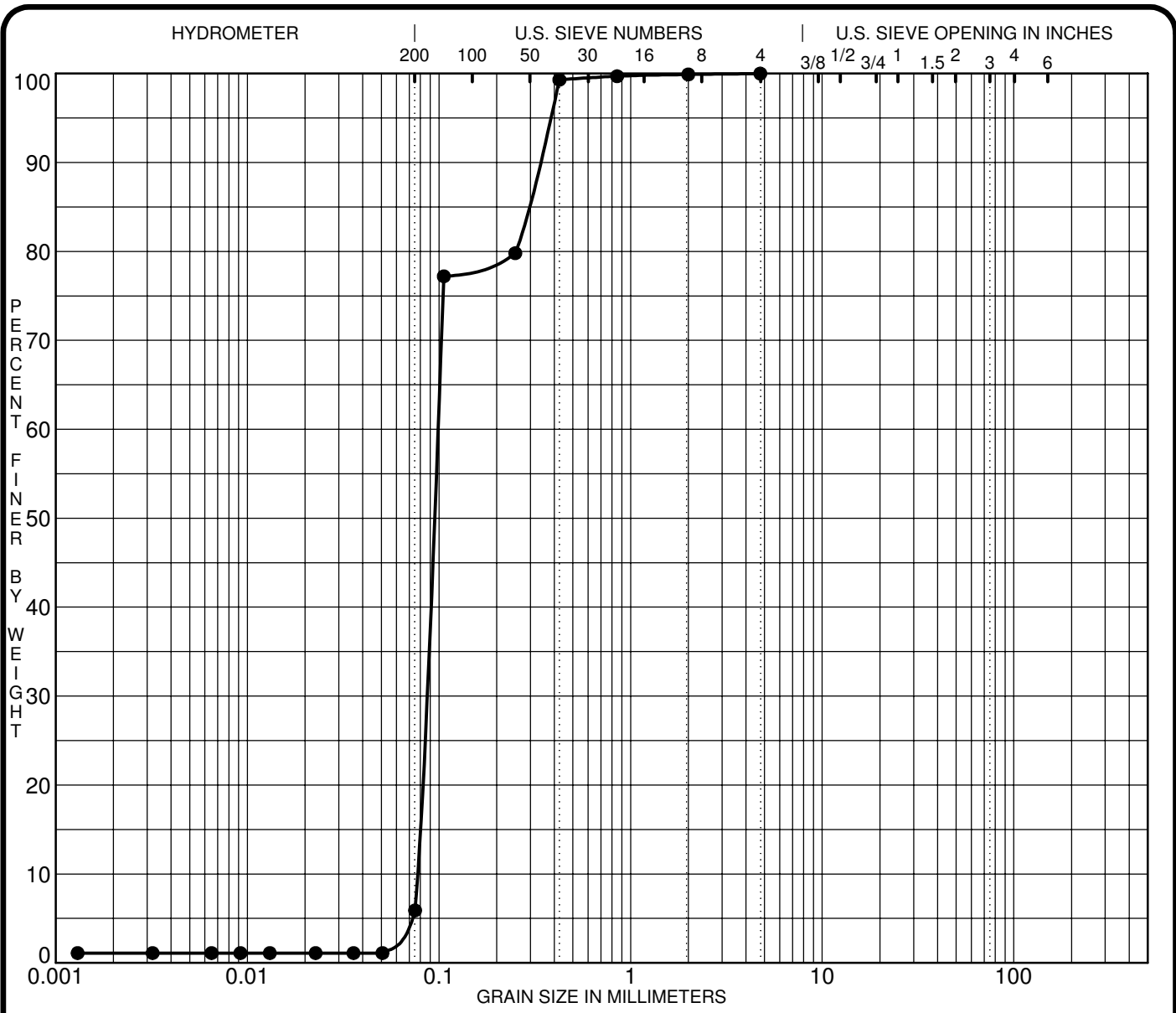
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH73-22 SS4									1.08	2.2
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH73-22 SS4	0.43	0.09	0.061	0.0394	0.0	55.0	45.0			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 5 Dec 22

**paterongroup** Consulting Engineers  
 9 Auriga Drive, Ottawa, Ontario K2E 7T9

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

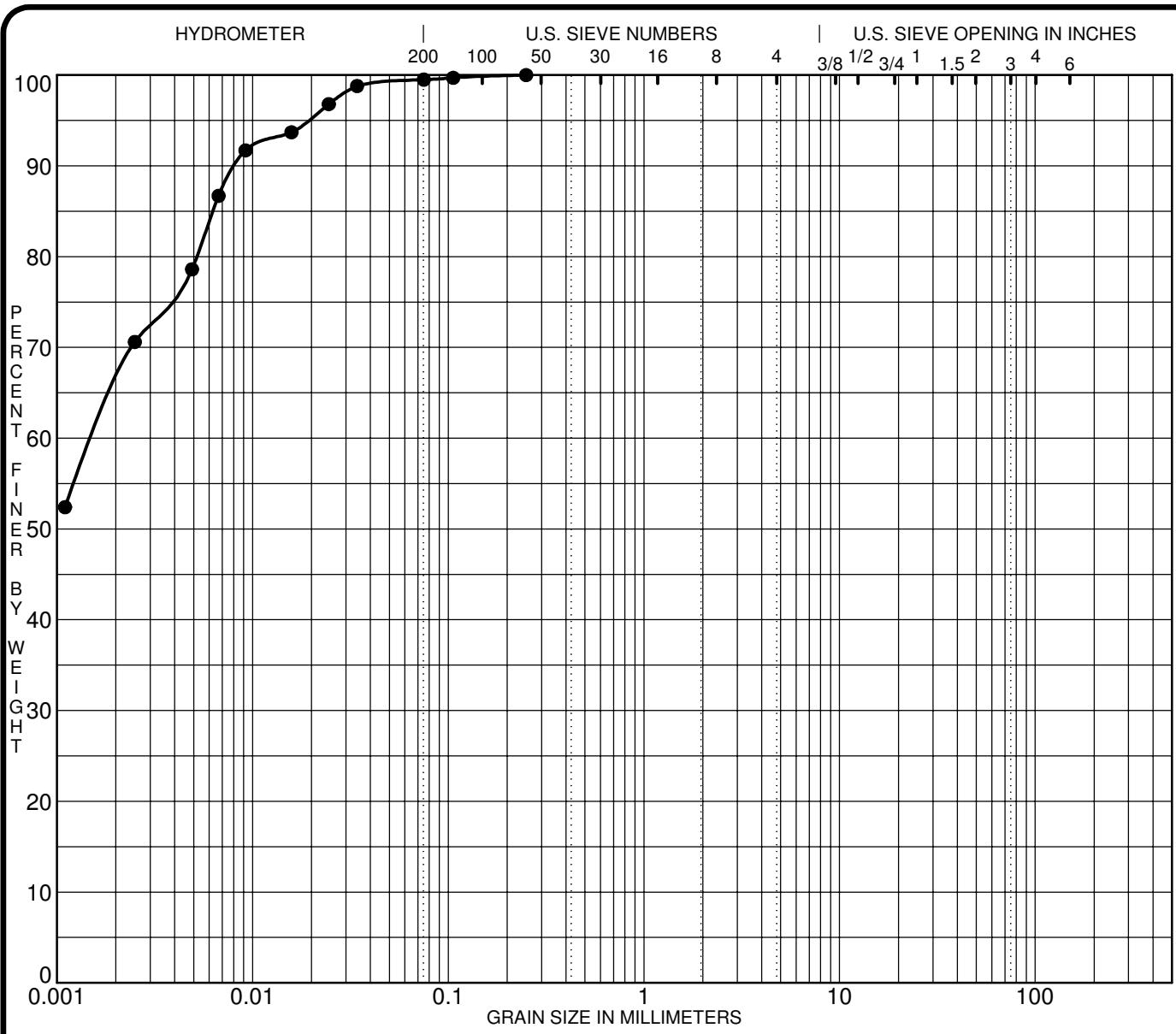
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH74-22 SS4									0.95	1.3
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH74-22 SS4	4.75	0.10	0.084	0.0765	0.0	94.1	5.9			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 6 Dec 22

**paterosongroup** Consulting Engineers  
 9 Auriga Drive, Ottawa, Ontario K2E 7T9

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH74-22 SS9										
☒										
▲										
★										

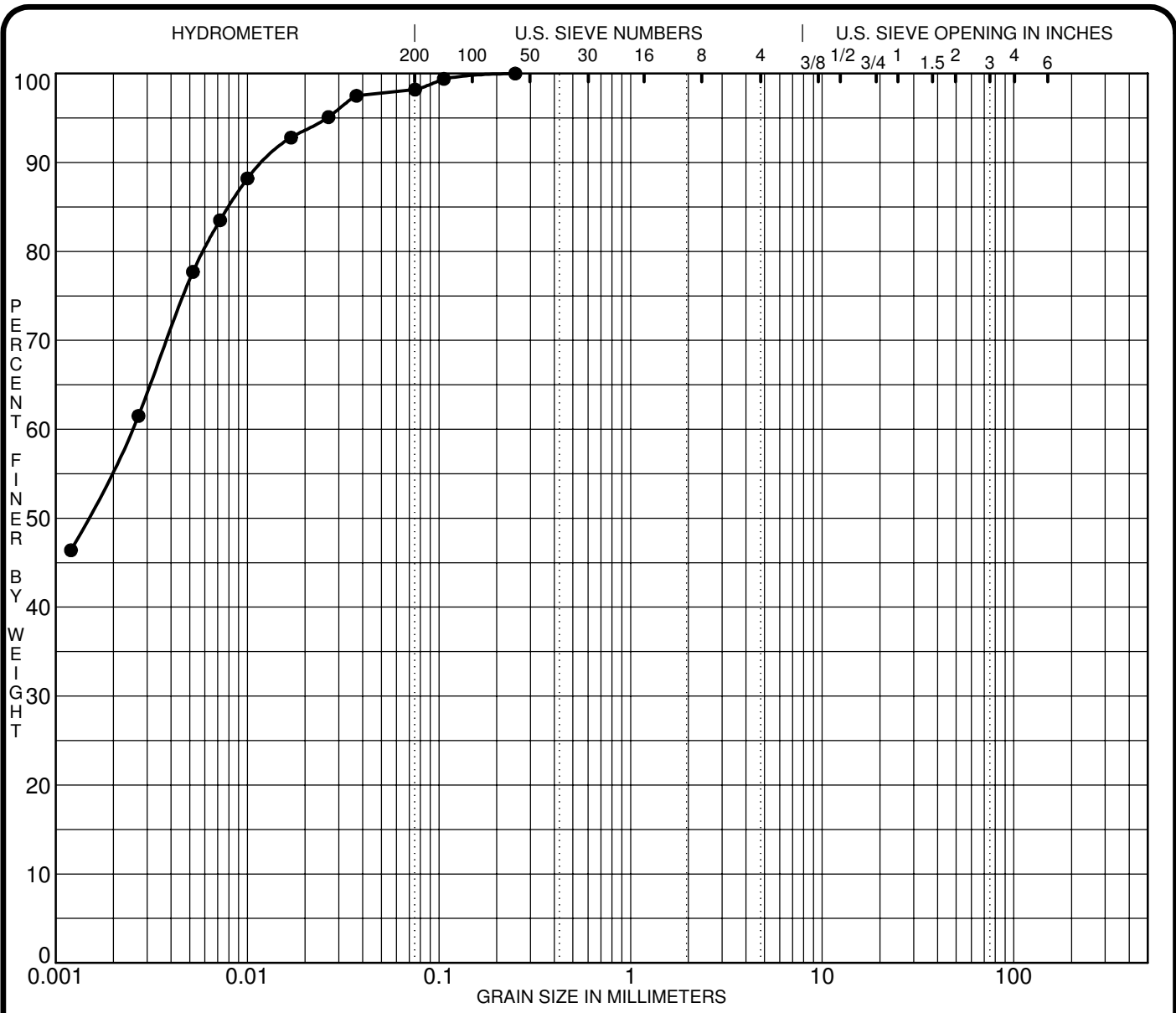
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BH74-22 SS9	0.25	0.00			0.0	0.5	99.5	
☒								
▲								
★								

CLIENT	<u>Taggart Investments</u>	FILE NO.	<u>PG5827</u>
PROJECT	<u>Geotechnical Investigation - Proposed Mixed-Use Community Development</u>	DATE	<u>6 Dec 22</u>

**paterosongroup** Consulting Engineers  
 9 Auriga Drive, Ottawa, Ontario K2E 7T9

**GRAIN SIZE DISTRIBUTION**





SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

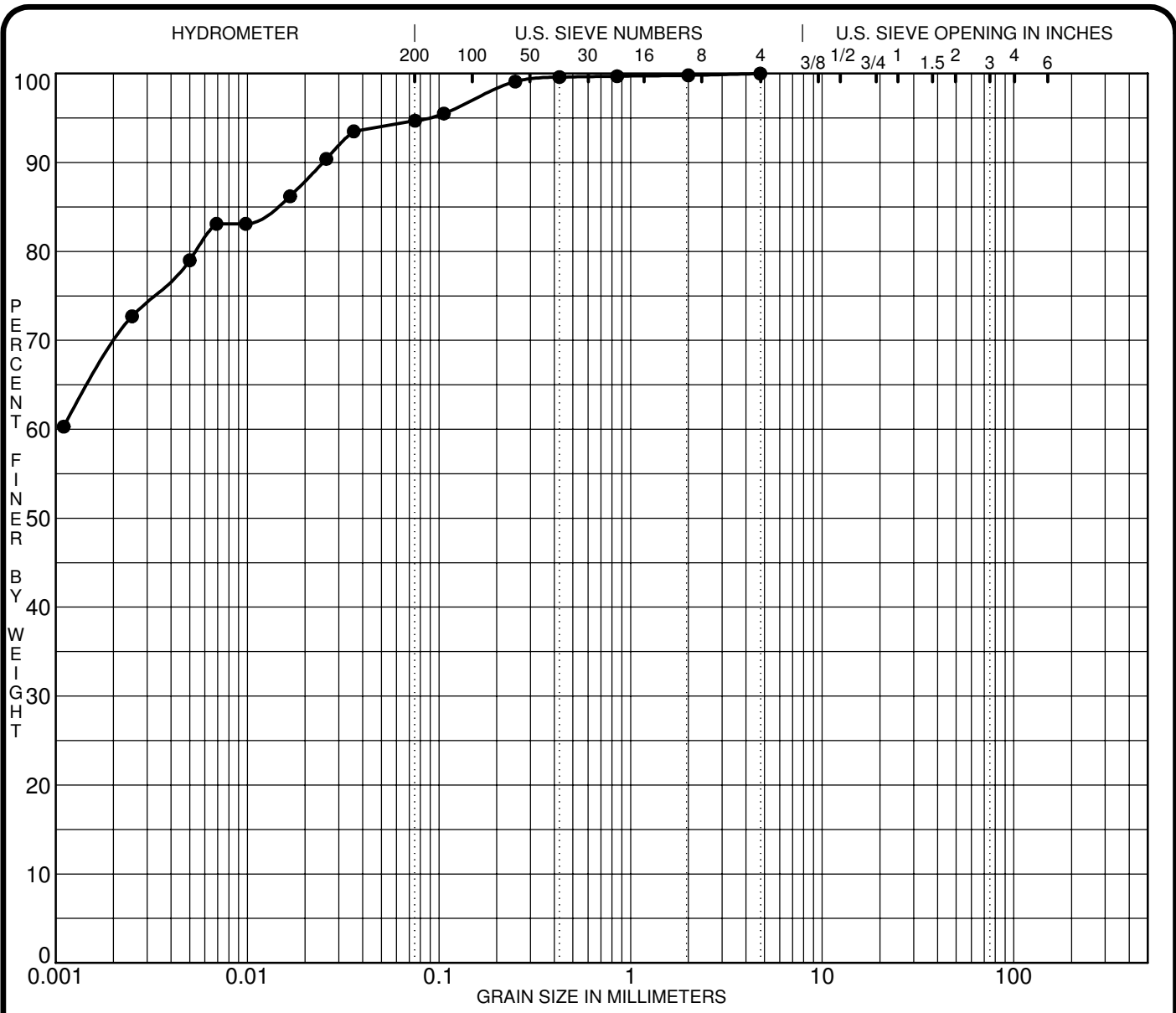
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH75-22 SS6										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH75-22 SS6	0.25	0.00			0.0	1.8	98.2			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 5 Dec 22

**paterosongroup** Consulting Engineers  
 9 Auriga Drive, Ottawa, Ontario K2E 7T9

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● BH76-22 SS3							
☒							
▲							
★							

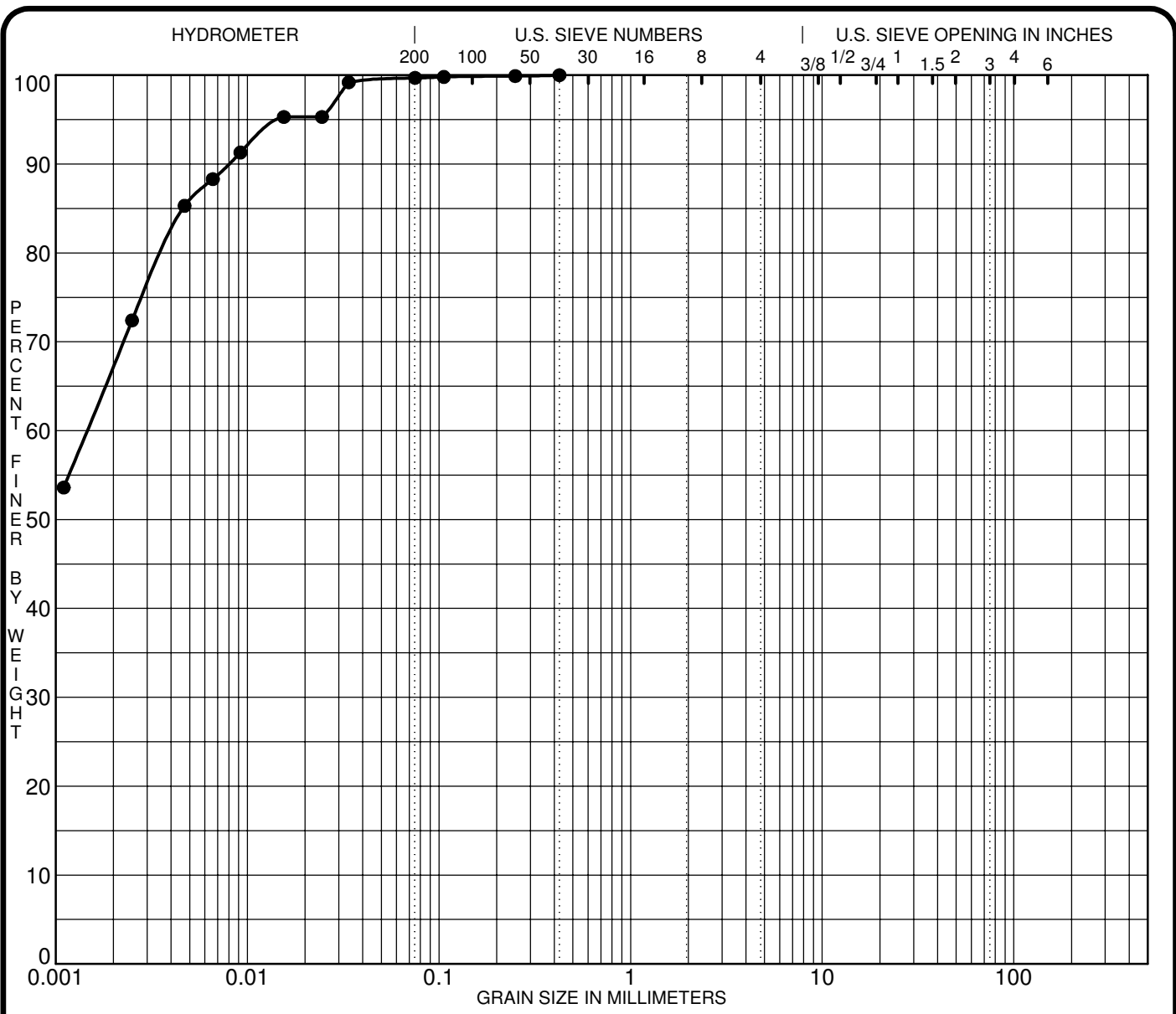
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BH76-22 SS3	4.75				0.0	5.3	94.7	
☒								
▲								
★								

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 6 Dec 22

**paterosongroup** Consulting Engineers  
 9 Auriga Drive, Ottawa, Ontario K2E 7T9

**GRAIN SIZE DISTRIBUTION**



SILT OR CLAY	SAND			GRAVEL		COBBLES
	fine	medium	coarse	fine	coarse	

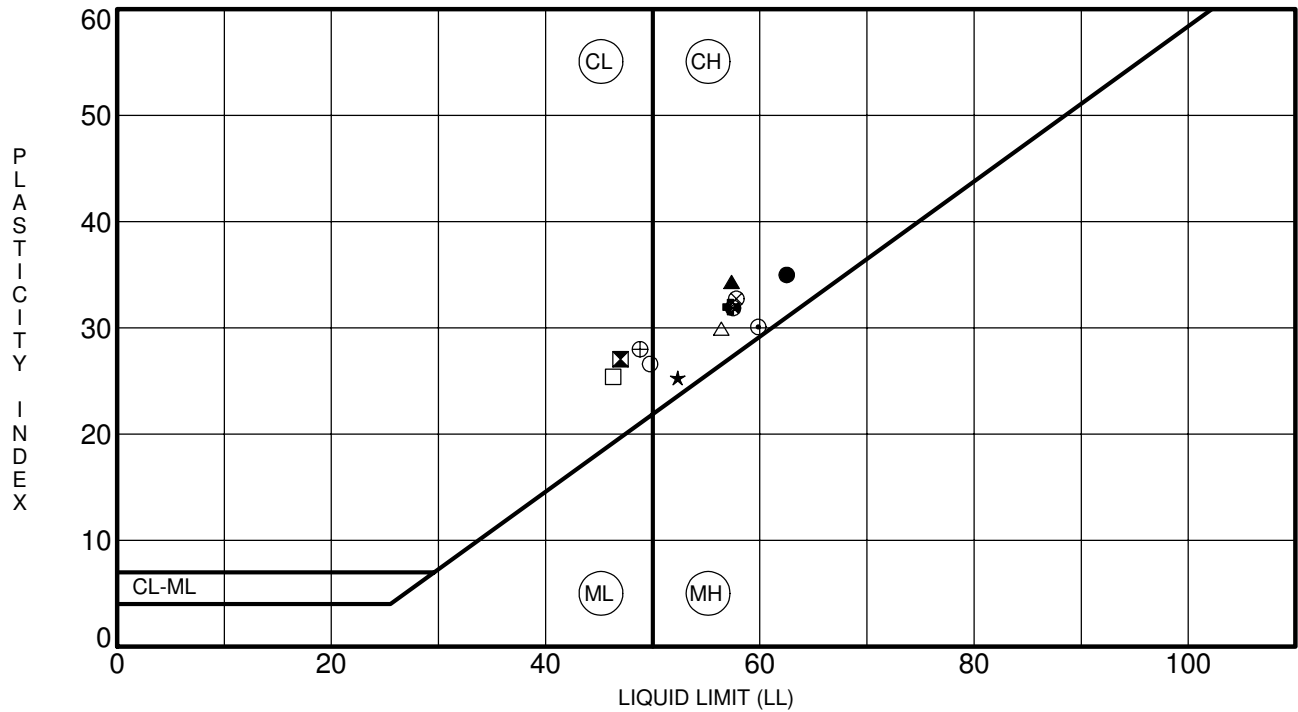
Specimen Identification	Classification				MC%	LL	PL	PI	Cc	Cu
● BH77-22 SS5										
☒										
▲										
★										
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● BH77-22 SS5	0.43	0.00			0.0	0.3	99.7			
☒										
▲										
★										

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use Community Development

FILE NO. PG5827  
 DATE 5 Dec 22

**paterosongroup** Consulting Engineers  
 9 Auriga Drive, Ottawa, Ontario K2E 7T9

**GRAIN SIZE DISTRIBUTION**



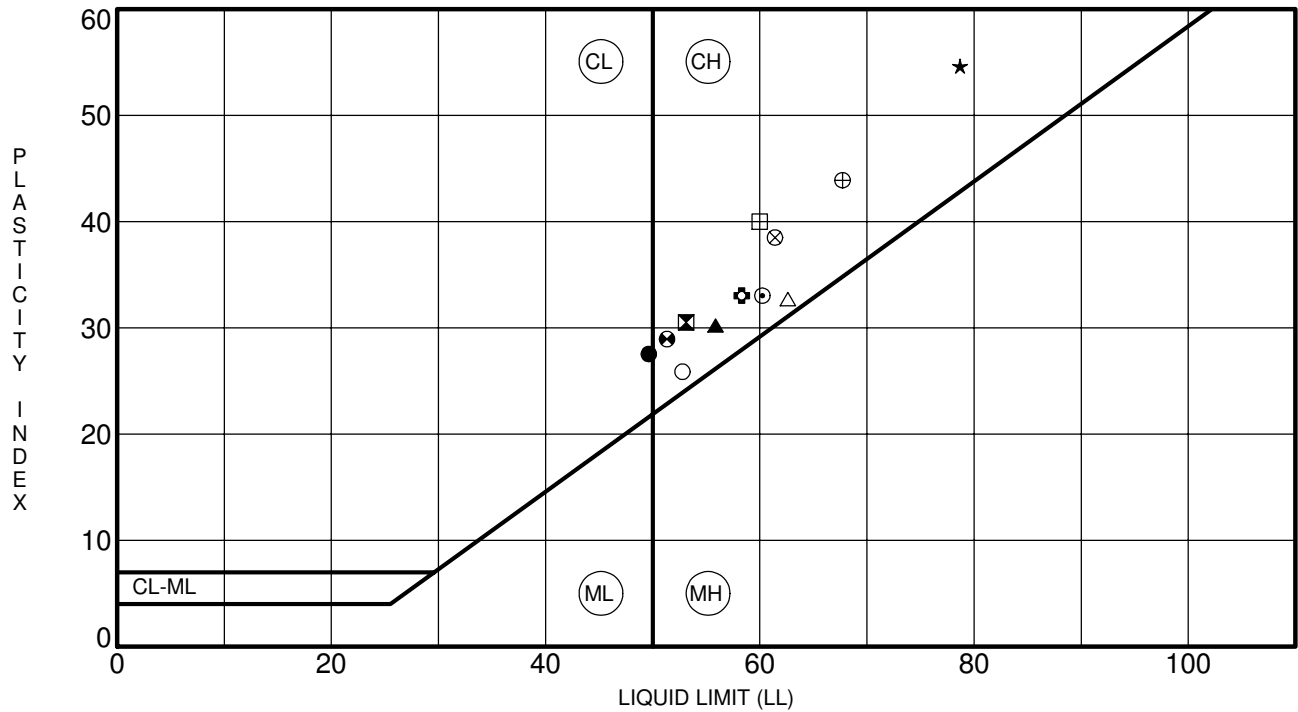
Specimen Identification	LL	PL	PI	Fines	Classification
● BH 1-22	SS2	63	28	35	CH - Inorganic clays of high plasticity
⊠ BH 2-22	SS2	47	20	27	CL - Inorganic clays of low plasticity
▲ BH 4-22	SS2	57	23	34	CH - Inorganic clays of high plasticity
★ BH 5-22	SS2	52	27	25	CH - Inorganic clays of high plasticity
⊙ BH 6-22	SS3	60	30	30	98.5 CH - Inorganic clays of high plasticity CH
⊕ BH 7-22	SS2	57	25	32	CH - Inorganic clays of high plasticity
○ BH 8-22	SS2	50	23	27	CL - Inorganic clays of low plasticity
△ BH 9-22	SS2	56	26	30	CH - Inorganic clays of high plasticity
⊗ BH10-22	SS3	58	25	33	CH - Inorganic clays of high plasticity
⊕ BH11-22	SS2	49	21	28	CL - Inorganic clays of low plasticity
□ BH12-22	SS2	46	21	25	88.7 CL - Inorganic clays of low plasticity CL
⊕ BH13A-22	SS1	57	26	32	CH - Inorganic clays of high plasticity

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use  
Community Development

FILE NO. PG5827  
 DATE 28 Mar 22

**paterosongroup** Consulting Engineers  
 9 Auriga Drive, Ottawa, Ontario K2E 7T9

**ATTERBERG LIMITS' RESULTS**



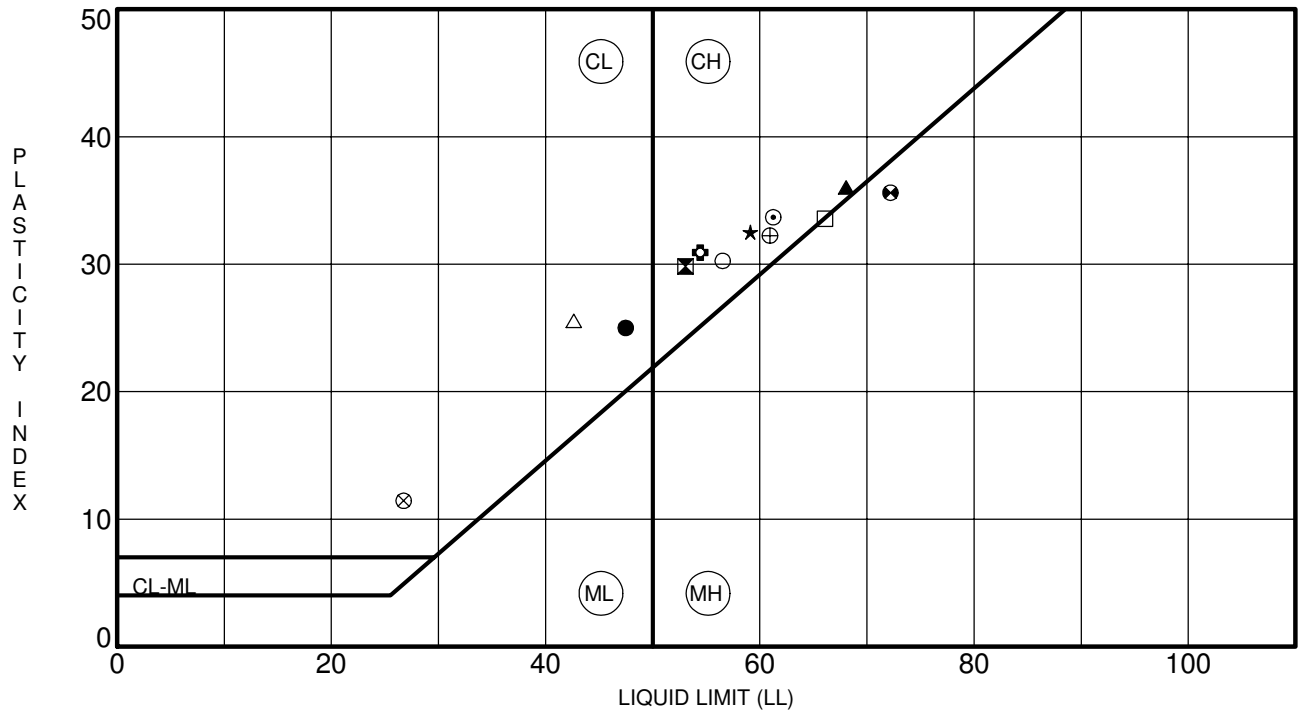
Specimen Identification	LL	PL	PI	Fines	Classification
● BH14-22	SS2	50	22	28	CL - Inorganic clays of low plasticity
⊠ BH15-22	SS2	53	23	31	CH - Inorganic clays of high plasticity
▲ BH16-22	SS2	56	26	30	CH - Inorganic clays of high plasticity
★ BH17-22	SS3	79	24	55	CH - Inorganic clays of high plasticity
⊙ BH18-22	SS2	60	27	33	CH - Inorganic clays of high plasticity
⊕ BH19-22	SS4	58	25	33	CH - Inorganic clays of high plasticity
○ BH20-22	SS2	53	27	26	CH - Inorganic clays of high plasticity
△ BH22-22	SS2	63	30	33	CH - Inorganic clays of high plasticity
⊗ BH23-22	SS2	61	23	39	CH - Inorganic clays of high plasticity
⊕ BH24-22	SS2	68	24	44	CH - Inorganic clays of high plasticity
□ BH25-22	SS3	60	20	40	CH - Inorganic clays of high plasticity
⊕ BH26A-22	SS1	51	22	29	CH - Inorganic clays of high plasticity

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use  
Community Development

FILE NO. PG5827  
 DATE 6 Apr 22

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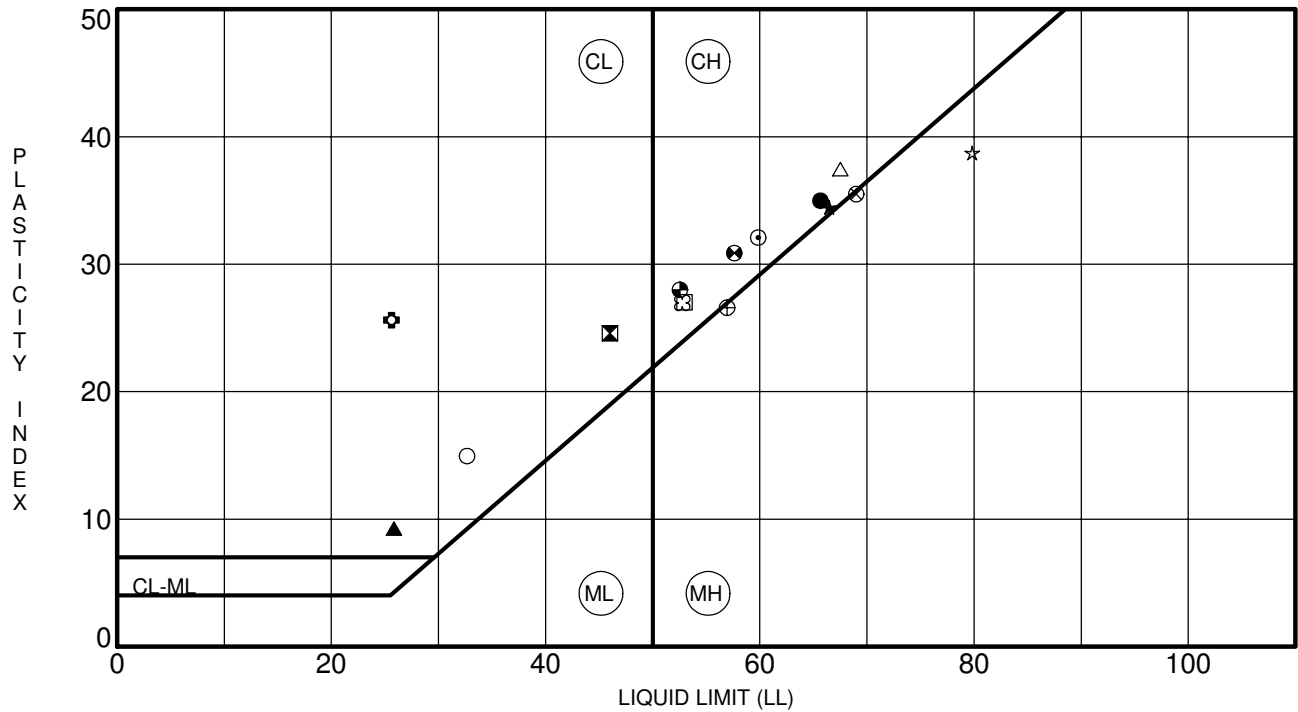
**ATTERBERG LIMITS' RESULTS**



Specimen Identification	LL	PL	PI	Fines	Classification
● BH27-22	SS3	47	22	25	CL - Inorganic clays of low plasticity
⊠ BH29-22	SS2	53	23	30	CH - Inorganic clays of high plasticity
▲ BH30-22	SS2	68	32	36	CH - Inorganic clays of high plasticity
★ BH31-22	SS2	59	27	33	CH - Inorganic clays of high plasticity
⊙ BH32-22	SS2	61	28	34	CH - Inorganic clays of high plasticity
⊕ BH33-22	SS2	54	24	31	CH - Inorganic clays of high plasticity
○ BH34-22	SS5	57	26	30	CH - Inorganic clays of high plasticity
△ BH35-22	SS3	43	17	26	CL - Inorganic clays of low plasticity
⊗ BH36-22	SS4	27	15	11	CL - Inorganic clays of low plasticity
⊕ BH37-22	SS2	61	29	32	CH - Inorganic clays of high plasticity
□ BH38-22	SS2	66	33	34	CH - Inorganic clays of high plasticity
⊗ BH39-22	SS2	72	37	36	CH - Inorganic clays of high plasticity

CLIENT Taggart Investments  
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FILE NO. PG5827  
 DATE 1 Apr 22



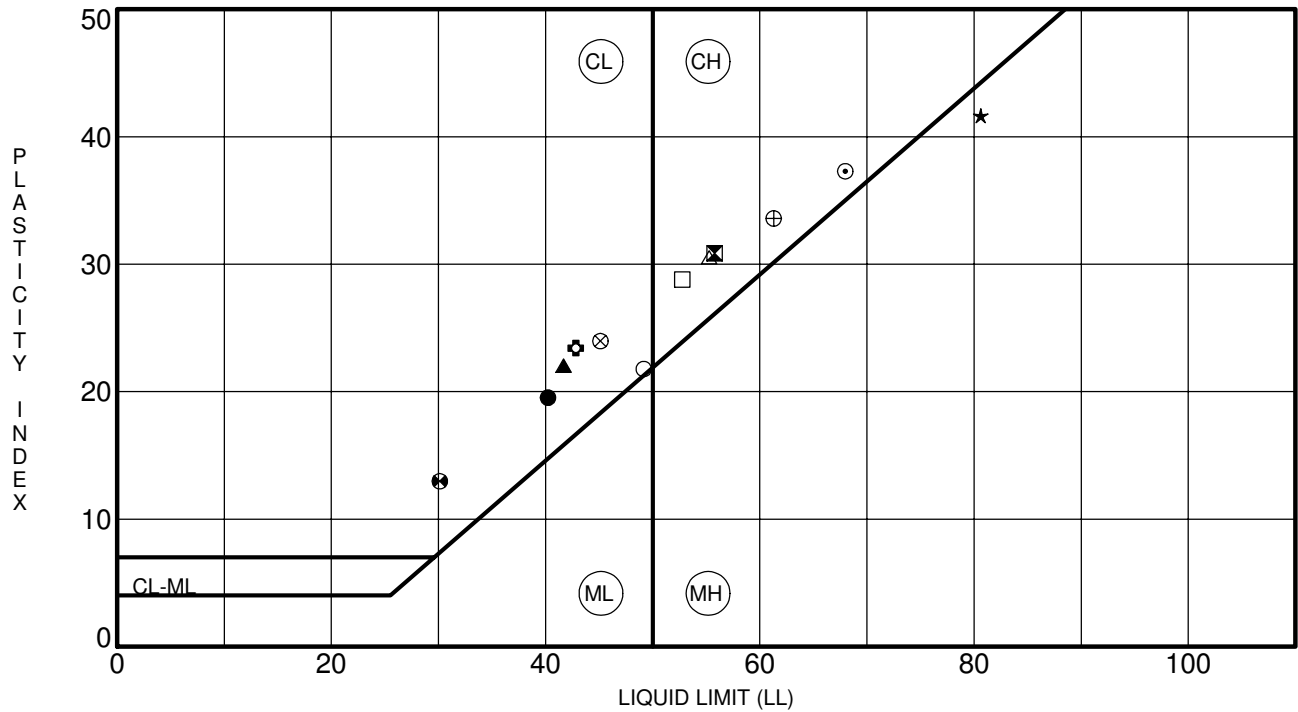
Specimen Identification	LL	PL	PI	Fines	Classification
● BH40-22	SS2	66	31	35	CH - Inorganic clays of high plasticity
⊠ BH41-22	SS2	46	21	25	CL - Inorganic clays of low plasticity
▲ BH42-22	SS2	26	17	9	CL - Inorganic clays of low plasticity
★ BH43-22	SS2	66	32	34	CH - Inorganic clays of high plasticity
⊙ BH44-22	SS2	60	28	32	CH - Inorganic clays of high plasticity
⊕ BH45-22	SS2	26	NP	26	CL - Inorganic clays of low plasticity
○ BH46A-22	SS1	33	18	15	CL - Inorganic clays of low plasticity
△ BH47-22	SS3	68	30	37	CH - Inorganic clays of high plasticity
⊗ BH48-22	SS2	69	33	35	CH - Inorganic clays of high plasticity
⊕ BH49-22	SS2	57	30	27	CH - Inorganic clays of high plasticity
□ BH50-22	SS3	53	26	27	CH - Inorganic clays of high plasticity
⊕ BH51-22	SS3	58	27	31	CH - Inorganic clays of high plasticity
⊕ BH52-22	SS6	53	25	28	99.3 CH - Inorganic clays of high plasticity CH
☆ BH53-22	SS2	80	41	39	MH - Inorganic silts of high plasticity
⊗ BH54-22	SS2	53	26	27	CH - Inorganic clays of high plasticity

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FILE NO. PG5827  
 DATE 24 Mar 22

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**ATTERBERG LIMITS'  
 RESULTS**



Specimen Identification	LL	PL	PI	Fines	Classification
● BH55-22 SS2	40	21	20		CL - Inorganic clays of low plasticity
⊠ BH56-22 SS3	56	25	31		CH - Inorganic clays of high plasticity
▲ BH57-22 SS2	42	20	22		CL - Inorganic clays of low plasticity
★ BH58-22 SS3	81	39	42		MH - Inorganic silts of high plasticity
⊙ BH59-22 SS2	68	31	37		CH - Inorganic clays of high plasticity
⊕ BH60-22 AU1	43	19	23		CL - Inorganic clays of low plasticity
○ BH61-22 SS2	49	27	22		CL - Inorganic clays of low plasticity
△ BH62-22 SS3	55	25	31		CH - Inorganic clays of high plasticity
⊗ BH63-22 SS1	45	21	24		CL - Inorganic clays of low plasticity
⊕ BH64-22 SS2	61	28	34		CH - Inorganic clays of high plasticity
□ BH65-22 SS2	53	24	29		CH - Inorganic clays of high plasticity
⊕ BH68-22 SS3	30	17	13		CL - Inorganic clays of low plasticity

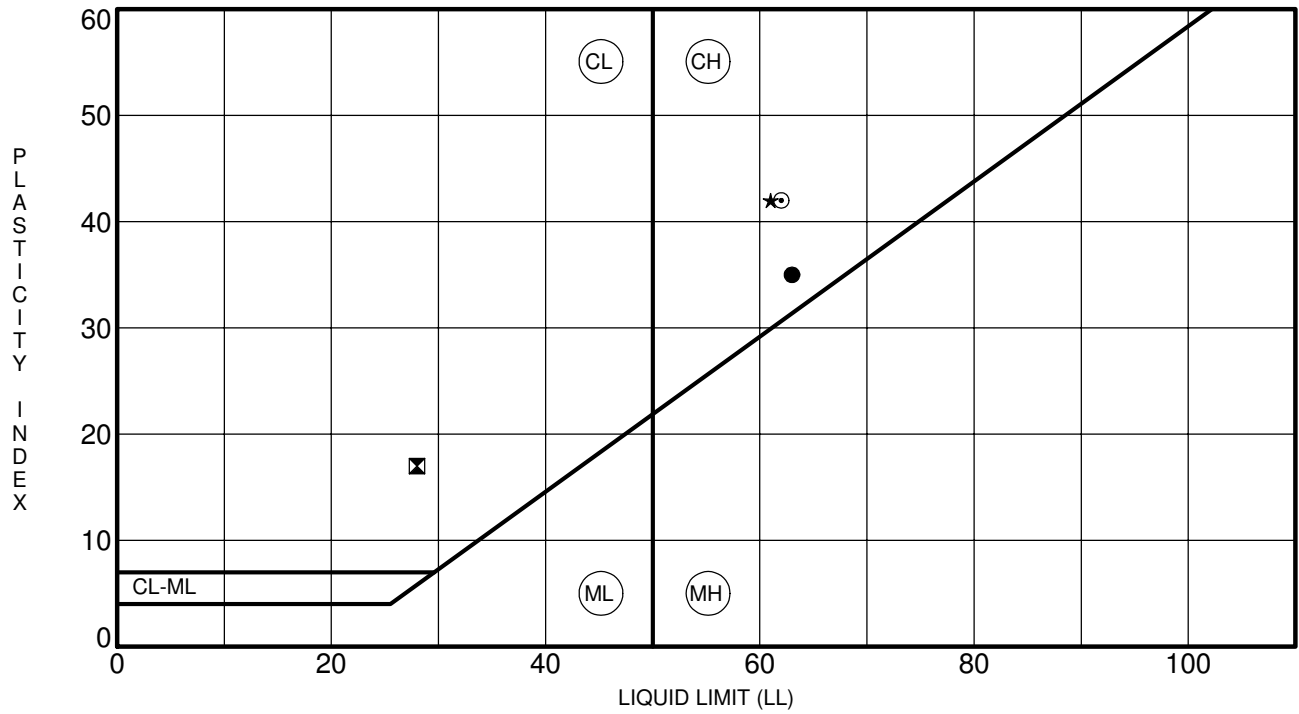
CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use  
 Community Development

FILE NO. PG5827  
 DATE 13 Apr 22

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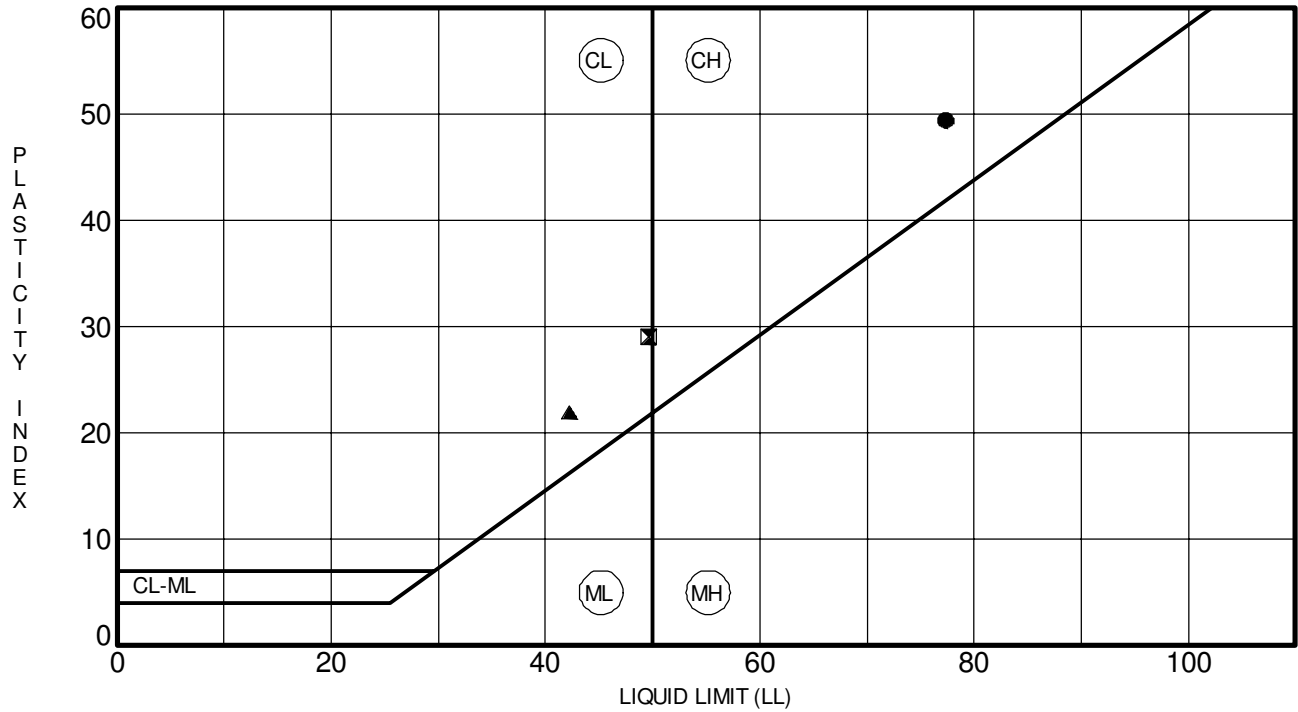
**ATTERBERG LIMITS'  
 RESULTS**





Specimen Identification	LL	PL	PI	Fines	Classification
● BH69-22	SS2	63	28	35	CH - Inorganic clays of high plasticity
⊠ BH70-22	SS3	28	11	17	CL - Inorganic clay of low plasticity
▲ BH72-22	SS2	69	29	58	CH - Inorganic clays of high plasticity
⊙ BH76-22	SS4	62	20	42	CH - Inorganic clays of high plasticity
BH76-22	SS2	62	20	42	CH - Inorganic clays of high plasticity

CLIENT Taggart Investments FILE NO. PG5827  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use DATE 6 Dec 22  
Community Development



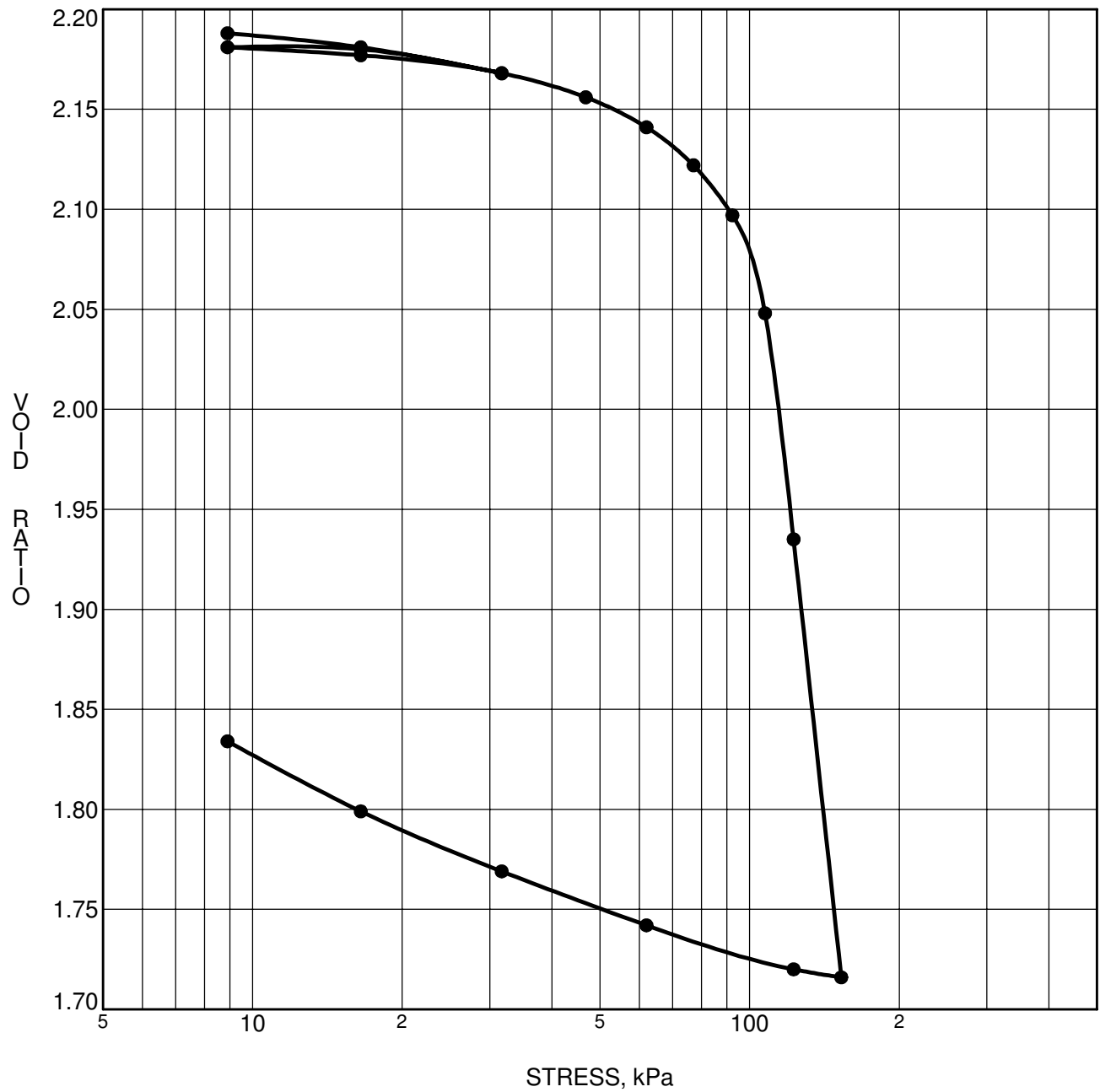
Specimen Identification	LL	PL	PI	Fines	Classification
● BH 3 TW 3	77	28	49		Clays of high plasticity
■ BH 8 TW 3	50	21	29		Clays of low plasticity
▲ BH 9 TW 4	42	20	22		Clays of low plasticity

CLIENT Fairlawn Sod c/o Mr. Ted Phillips  
 PROJECT Geotechnical Investigation - 8th Line Road and Anderson Road

FILE NO. PG2466  
 DATE 30 Sep 11

**paterongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**ATTERBERG LIMITS' RESULTS**



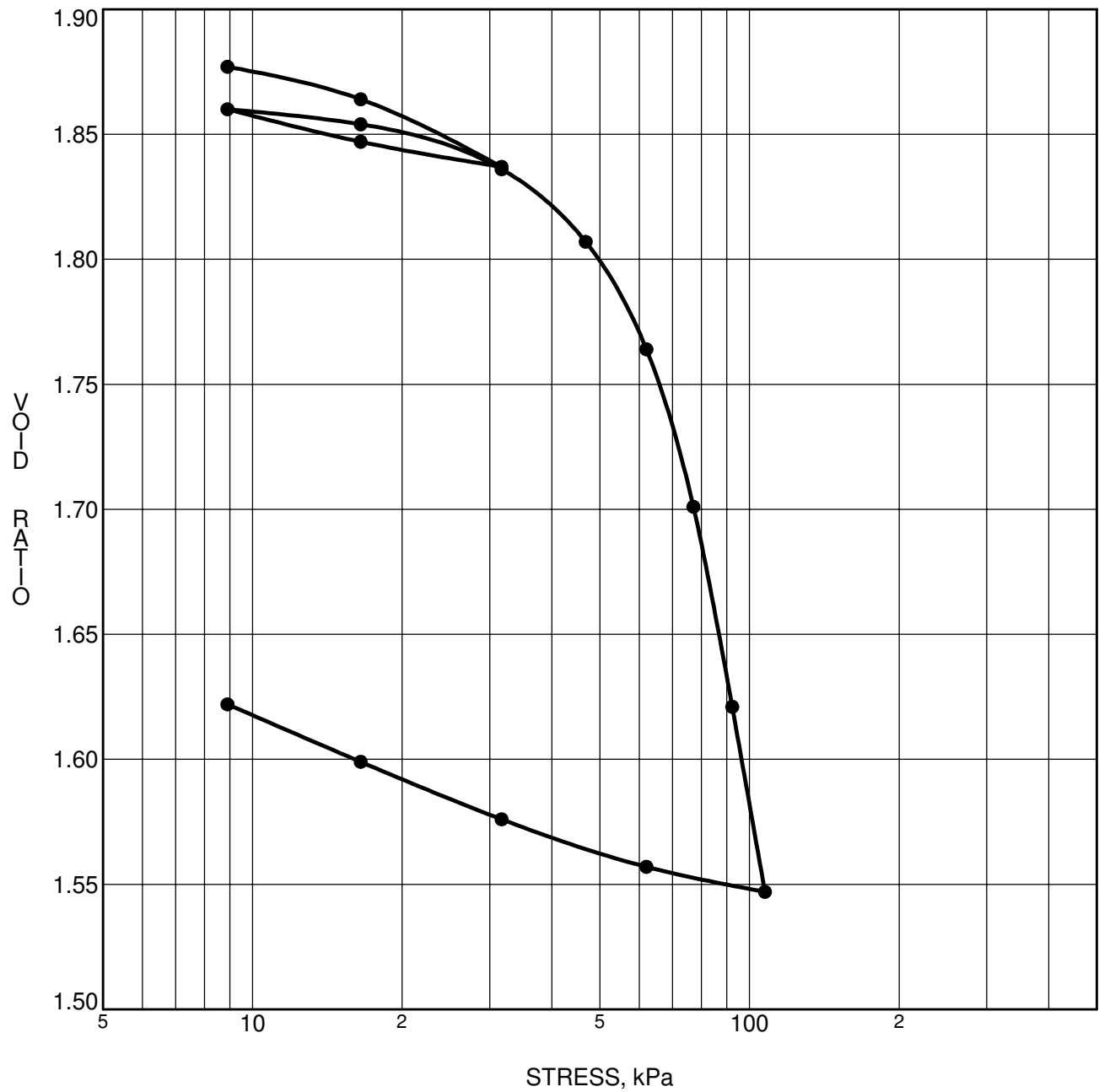
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH 5-22</b>	$p'_o$	<b>33.29</b> kPa	$C_{cr}$	<b>0.023</b>
Sample No.	<b>TW4</b>	$p'_c$	<b>102.33</b> kPa	$C_c$	<b>2.143</b>
Sample Depth	<b>3.40</b> m	OC Ratio	<b>3.1</b>	$W_o$	<b>79.6</b> %
Sample Elev.	<b>75.36</b> m	Void Ratio	<b>2.189</b>	Unit Wt.	<b>15.2</b> kN/m <sup>3</sup>

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 Community Development

FILE NO. PG5827  
 DATE 04/14/2022

**pater-song** Consulting Engineers  
 9 Auriga Drive, Ottawa, Ontario K2E 7T9

**CONSOLIDATION  
 TEST**



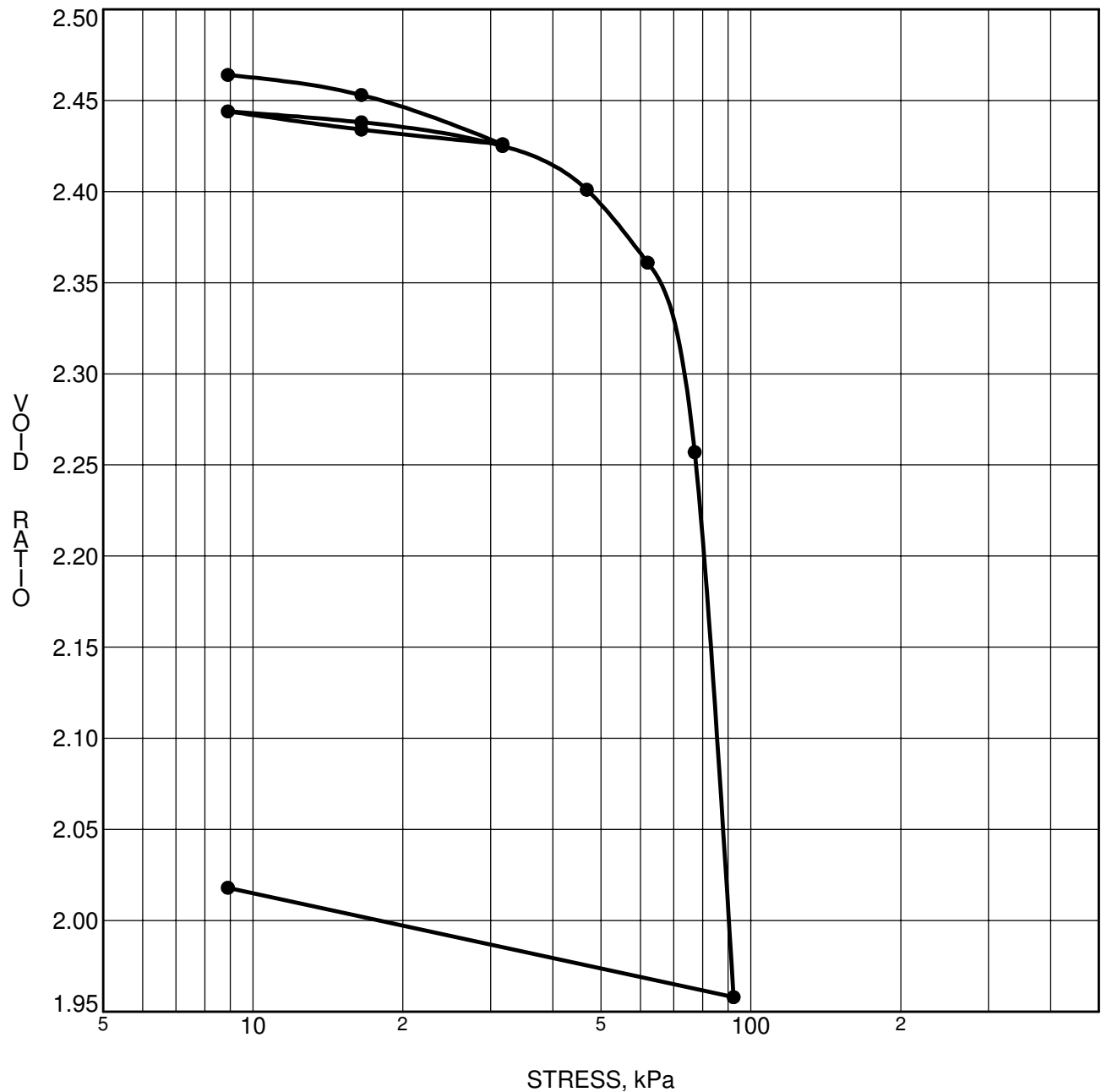
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Borehole No.	<b>BH 6A-22</b>	$p'_o$	<b>35.4 kPa</b>	$C_{cr}$	<b>0.042</b>
Sample No.	<b>TW3</b>	$p'_c$	<b>70 kPa</b>	$C_c$	<b>1.152</b>
Sample Depth	<b>2.67 m</b>	OC Ratio	<b>2.0</b>	$W_o$	<b>68.3 %</b>
Sample Elev.	<b>79.44 m</b>	Void Ratio	<b>1.879</b>	Unit Wt.	<b>15.8 kN/m<sup>3</sup></b>

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FILE NO. PG5827  
 DATE 04/14/2022

**patersongroup** Consulting Engineers  
 9 Auriga Drive, Ottawa, Ontario K2E 7T9

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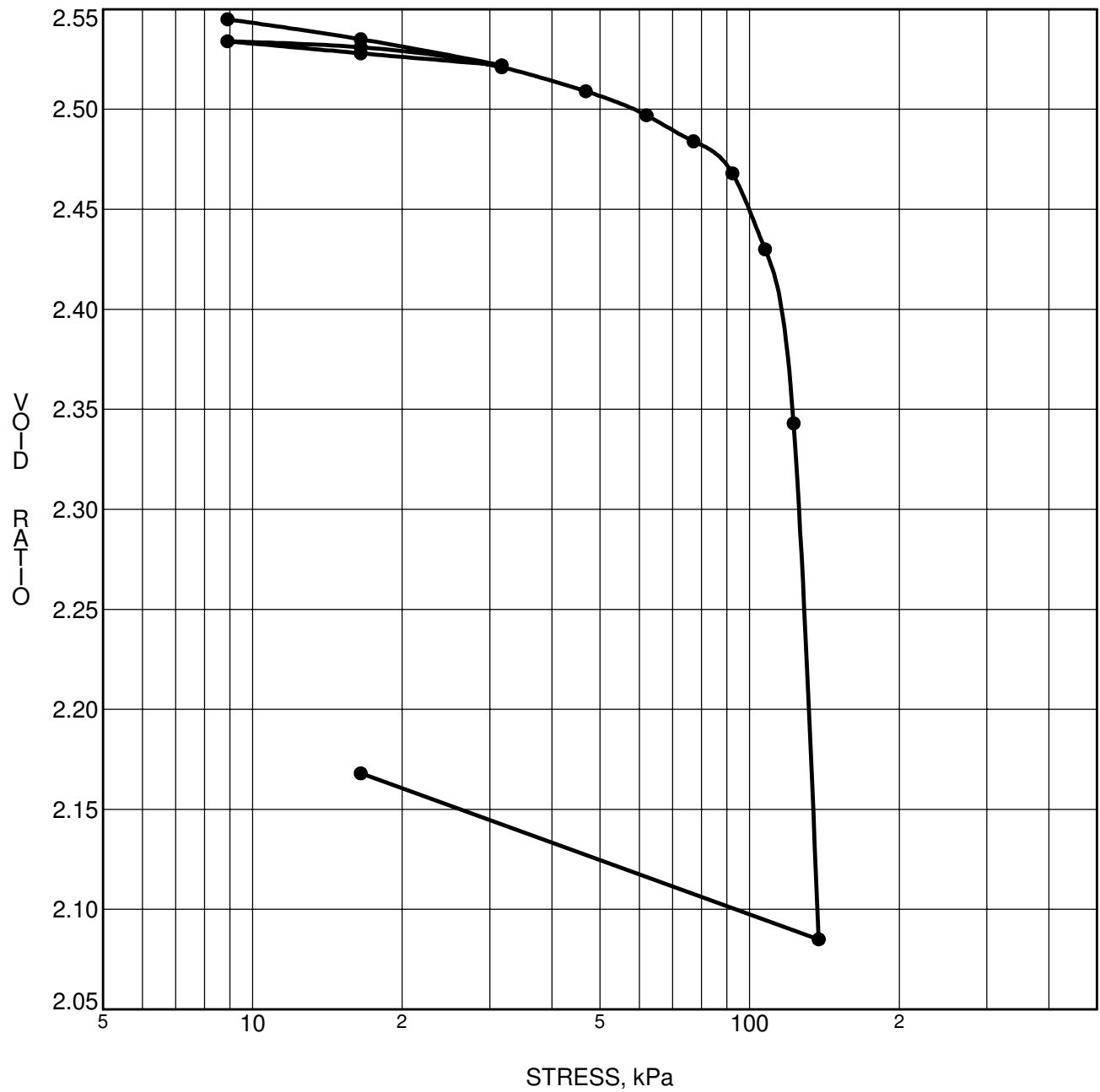
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH 8-22</b>	$p'_o$	<b>67.2 kPa</b>	$C_{cr}$	<b>0.036</b>
Sample No.	<b>TW5</b>	$p'_c$	<b>70.8 kPa</b>	$C_c$	<b>4.000</b>
Sample Depth	<b>4.90 m</b>	OC Ratio	<b>1.1</b>	$W_o$	<b>97.8 %</b>
Sample Elev.	<b>75.61 m</b>	Void Ratio	<b>2.688</b>	Unit Wt.	<b>14.5 kN/m<sup>3</sup></b>

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FILE NO. PG5827  
 DATE 07/21/2022

**patersongroup** Consulting Engineers  
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**CONSOLIDATION  
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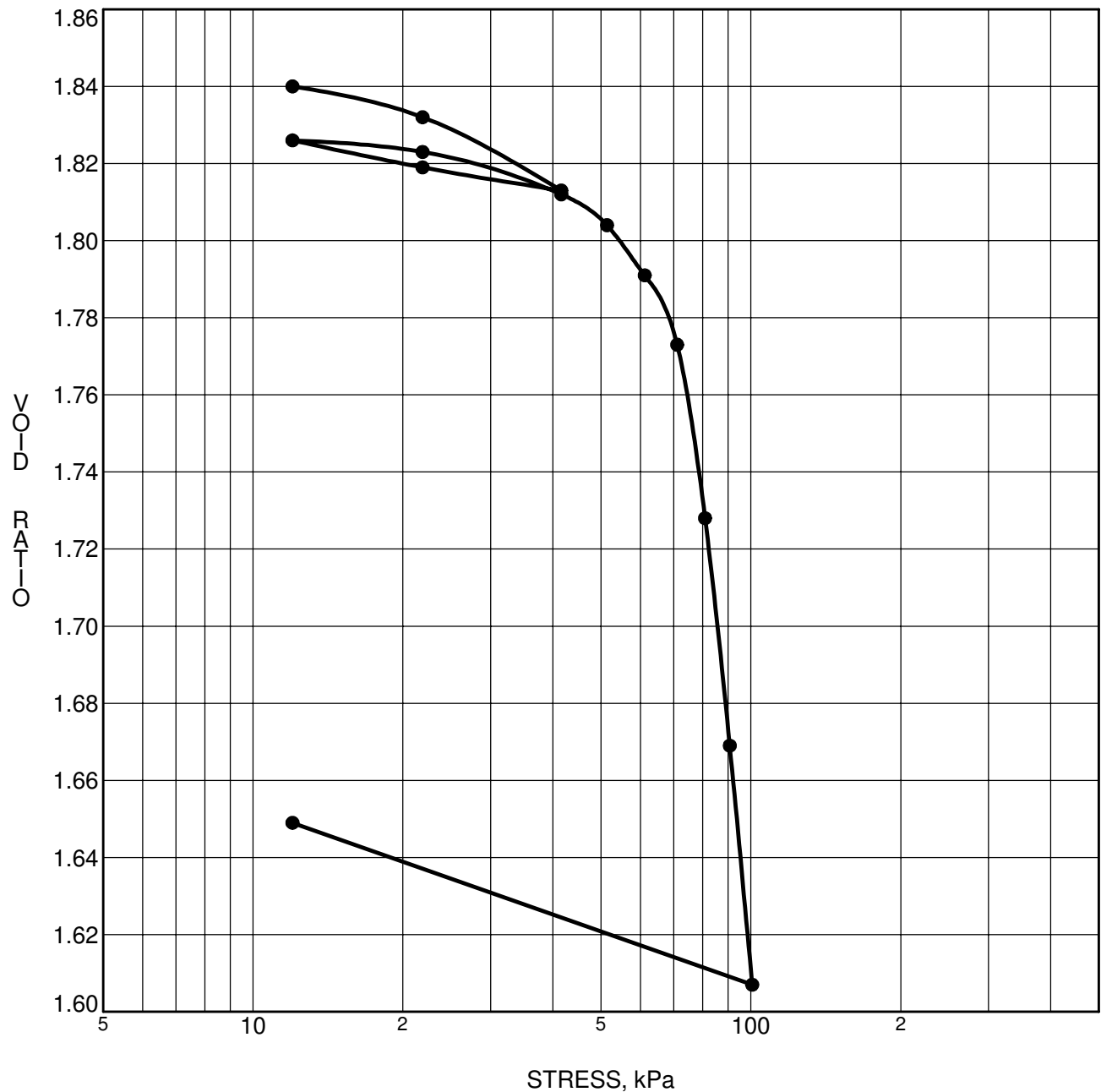
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH 9-22</b>	$p'_o$	<b>78.06</b> kPa	$C_{cr}$	<b>0.024</b>
Sample No.	<b>TW7</b>	$p'_c$	<b>120.23</b> kPa	$C_c$	<b>4.794</b>
Sample Depth	<b>9.45</b> m	OC Ratio	<b>1.5</b>	$W_o$	<b>92.7</b> %
Sample Elev.	<b>69.79</b> m	Void Ratio	<b>2.549</b>	Unit Wt.	<b>14.7</b> kN/m <sup>3</sup>

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 PROJECT Geotechnical Investigation - Proposed Mixed-Use  
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FILE NO. PG5827  
 DATE 05/01/2022

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**CONSOLIDATION  
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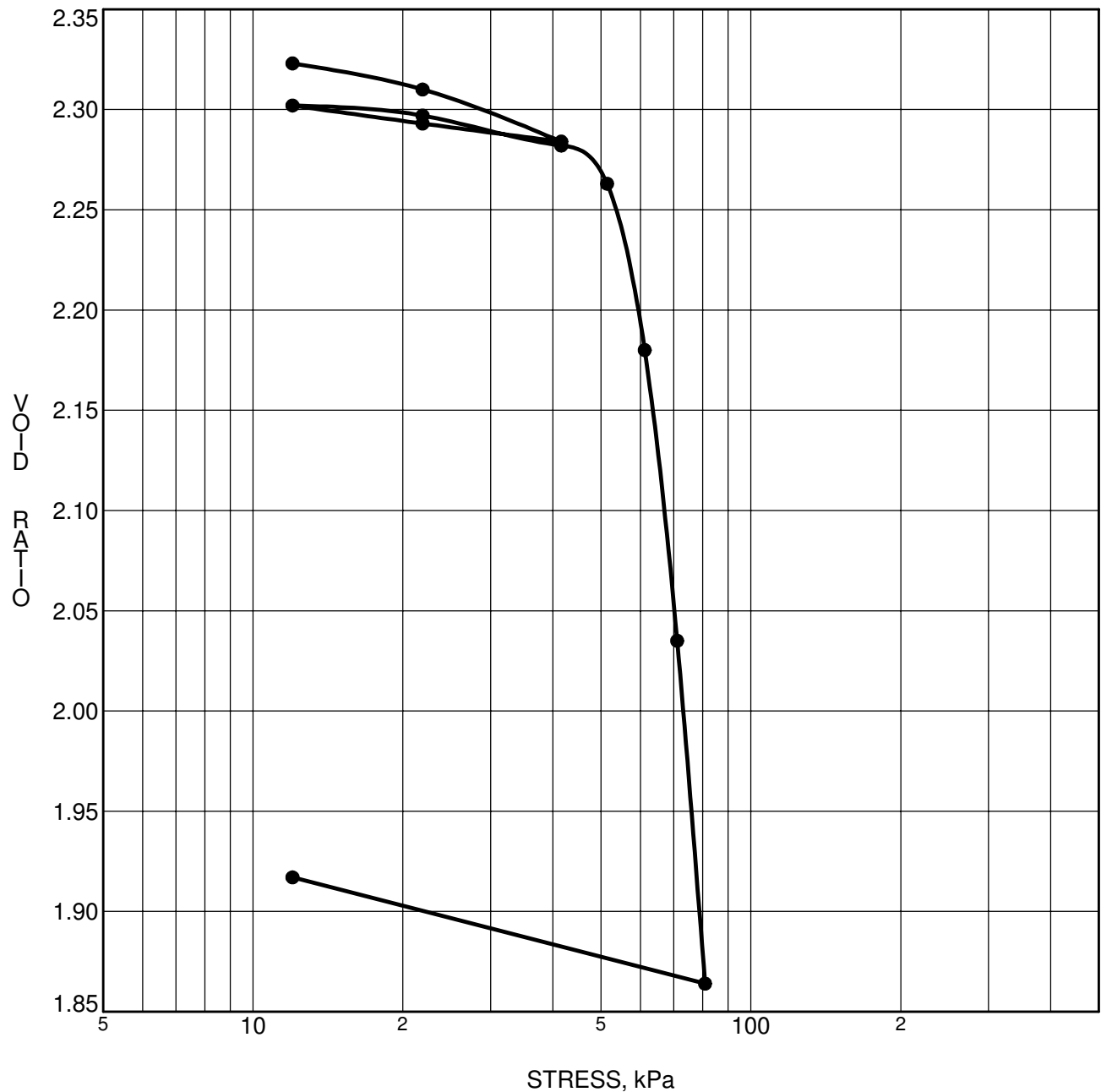
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH10-22</b>	$p'_o$	<b>36.18</b> kPa	$C_{cr}$	<b>0.026</b>
Sample No.	<b>TW4</b>	$p'_c$	<b>73.34</b> kPa	$C_c$	<b>1.277</b>
Sample Depth	<b>2.54</b> m	OC Ratio	<b>2.0</b>	$W_o$	<b>67.3</b> %
Sample Elev.	<b>79.93</b> m	Void Ratio	<b>1.849</b>	Unit Wt.	<b>15.8</b> kN/m <sup>3</sup>

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 Community Development

FILE NO. PG5827  
 DATE 07/29/2022

**pater-song** Consulting Engineers  
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**CONSOLIDATION  
 TEST**



CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH13A-22</b>	$p'_o$	<b>38.21</b> kPa	$C_{cr}$	<b>0.040</b>
Sample No.	<b>TW3</b>	$p'_c$	<b>60.26</b> kPa	$C_c$	<b>3.088</b>
Sample Depth	<b>3.35</b> m	OC Ratio	<b>1.6</b>	$W_o$	<b>85.1</b> %
Sample Elev.	<b>77.62</b> m	Void Ratio	<b>2.34</b>	Unit Wt.	<b>15.0</b> kN/m <sup>3</sup>

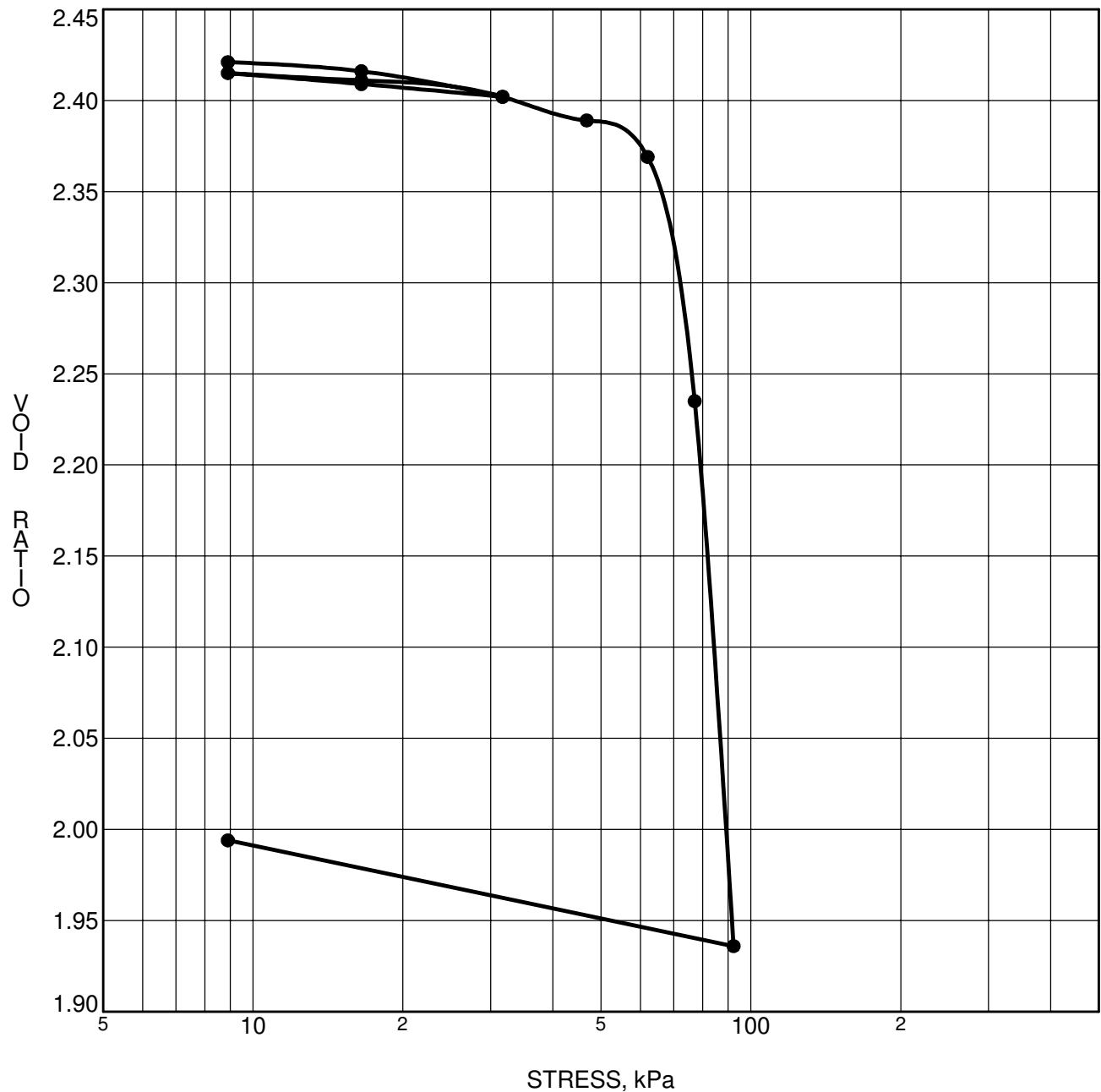
CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use  
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FILE NO. PG5827  
 DATE 07/29/2022

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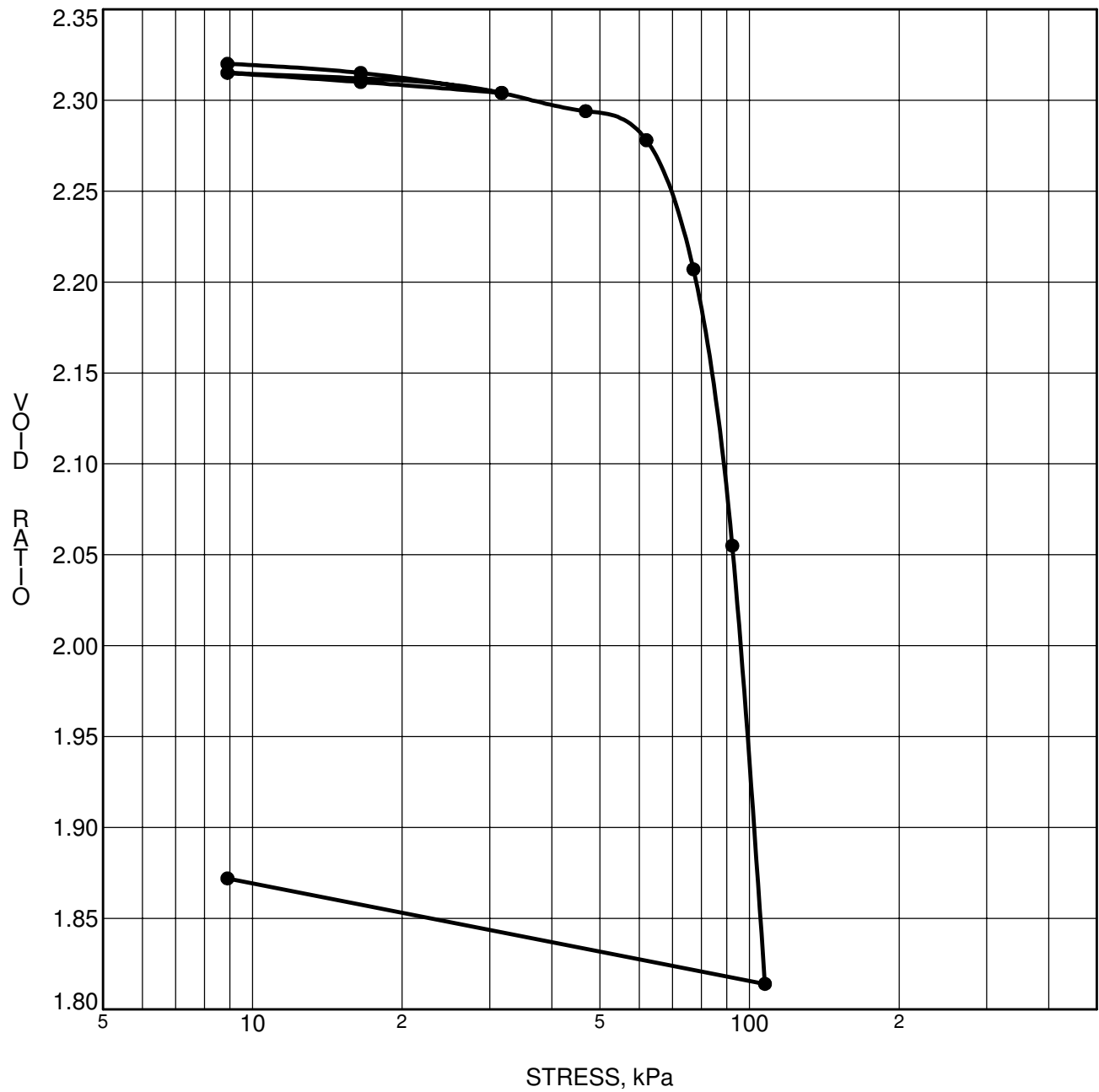
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH13B-22</b>	$p'_o$	<b>43.43</b> kPa	$C_{cr}$	<b>0.025</b>
Sample No.	<b>TW1</b>	$p'_c$	<b>72.11</b> kPa	$C_c$	<b>3.724</b>
Sample Depth	<b>4.19</b> m	OC Ratio	<b>1.7</b>	$W_o$	<b>88.1</b> %
Sample Elev.	<b>76.78</b> m	Void Ratio	<b>2.422</b>	Unit Wt.	<b>14.8</b> kN/m <sup>3</sup>

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FILE NO. PG5827  
 DATE 09/30/22

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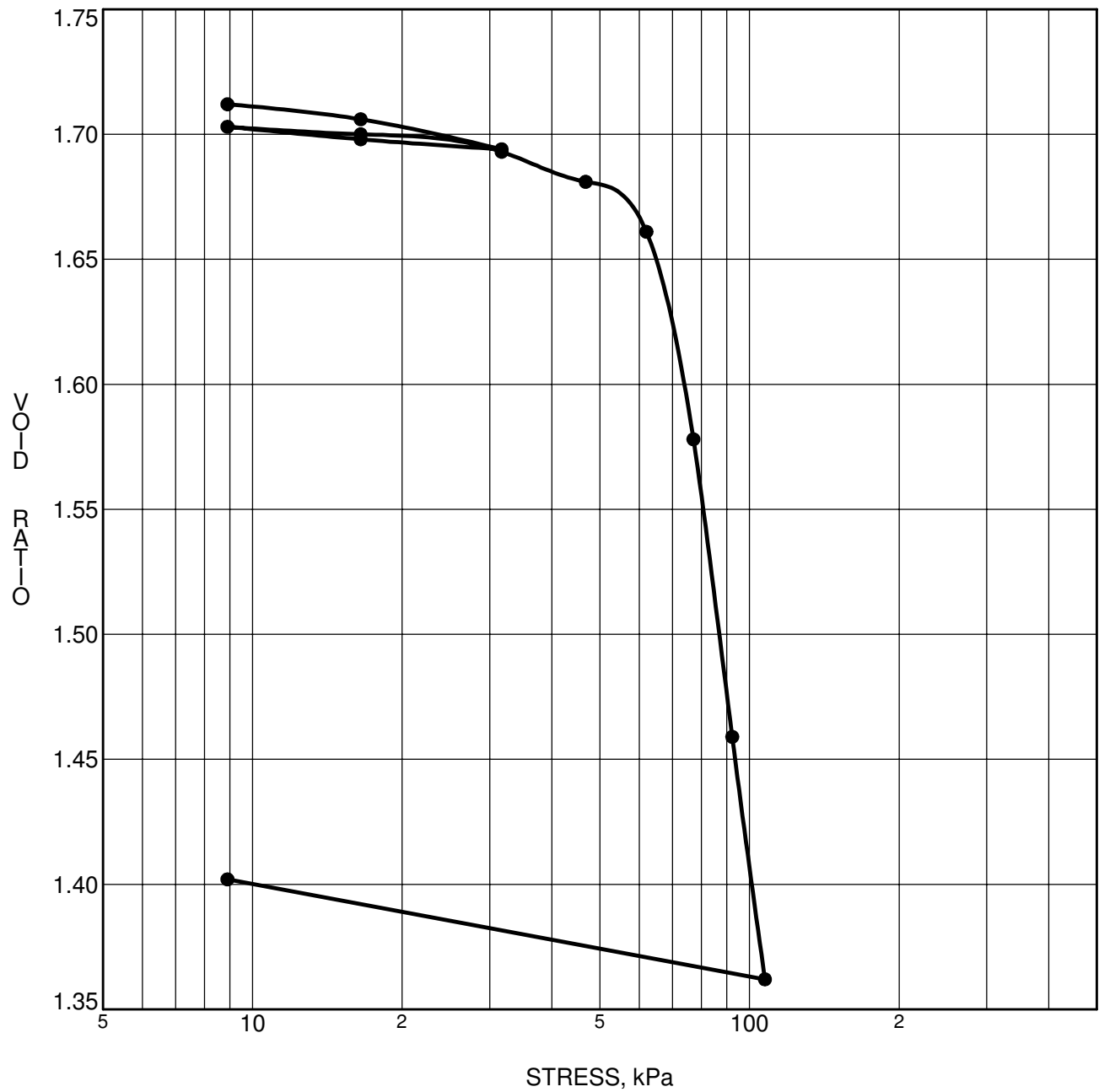
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Borehole No.	<b>BH14-22</b>	$p'_o$	<b>38.63</b> kPa	$C_{cr}$	<b>0.020</b>
Sample No.	<b>TW5</b>	$p'_c$	<b>81.28</b> kPa	$C_c$	<b>3.608</b>
Sample Depth	<b>4.14</b> m	OC Ratio	<b>2.1</b>	$W_o$	<b>84.5</b> %
Sample Elev.	<b>77.47</b> m	Void Ratio	<b>2.323</b>	Unit Wt.	<b>15.0</b> kN/m <sup>3</sup>

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FILE NO. PG5827  
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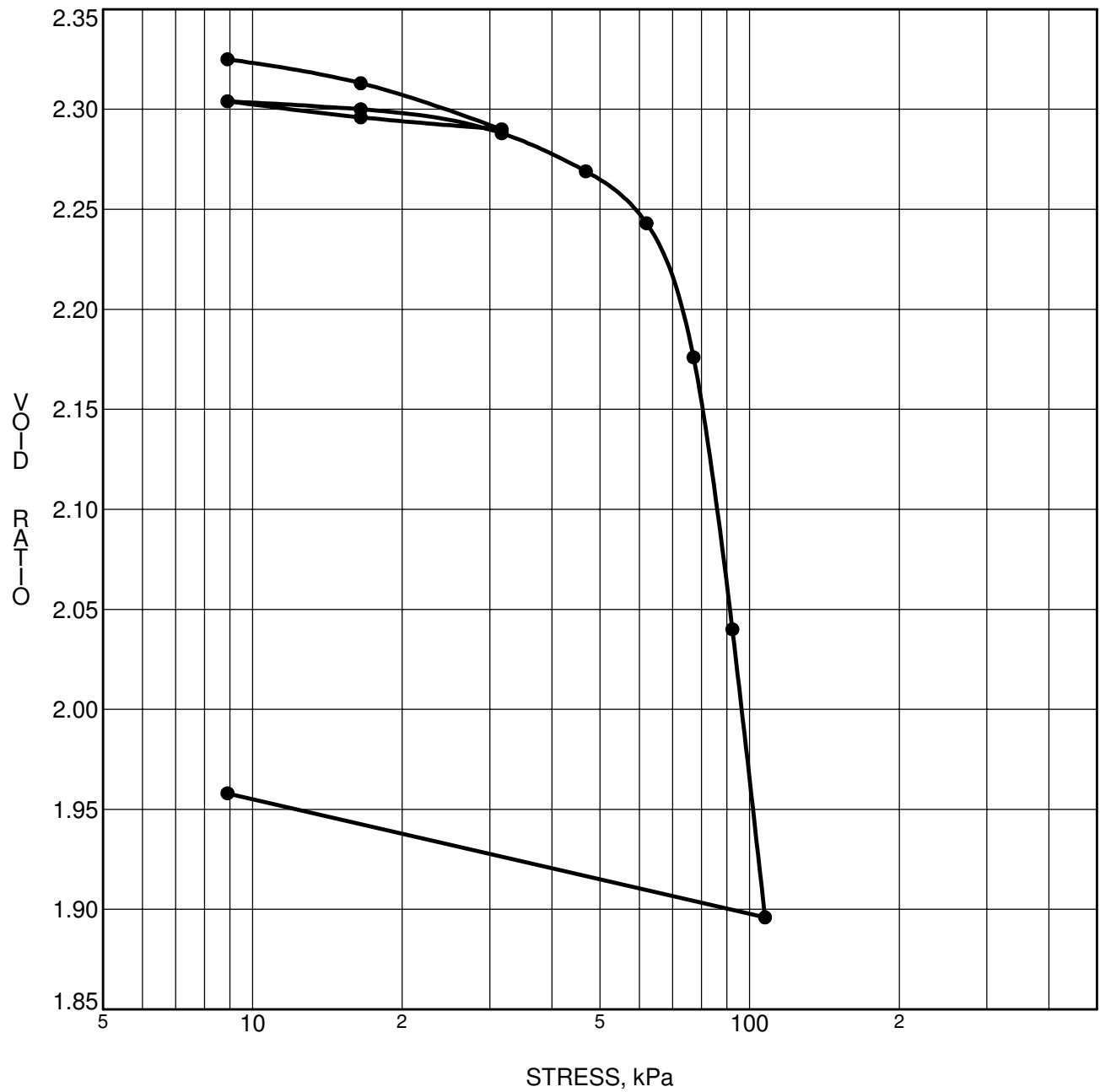
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH16-22</b>	$p'_o$	<b>34.48</b> kPa	$C_{cr}$	<b>0.020</b>
Sample No.	<b>TW4</b>	$p'_c$	<b>67.61</b> kPa	$C_c$	<b>1.493</b>
Sample Depth	<b>3.35</b> m	OC Ratio	<b>2.0</b>	$W_o$	<b>62.4</b> %
Sample Elev.	<b>77.95</b> m	Void Ratio	<b>1.717</b>	Unit Wt.	<b>16.1</b> kN/m <sup>3</sup>

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FILE NO. PG5827  
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 TEST**



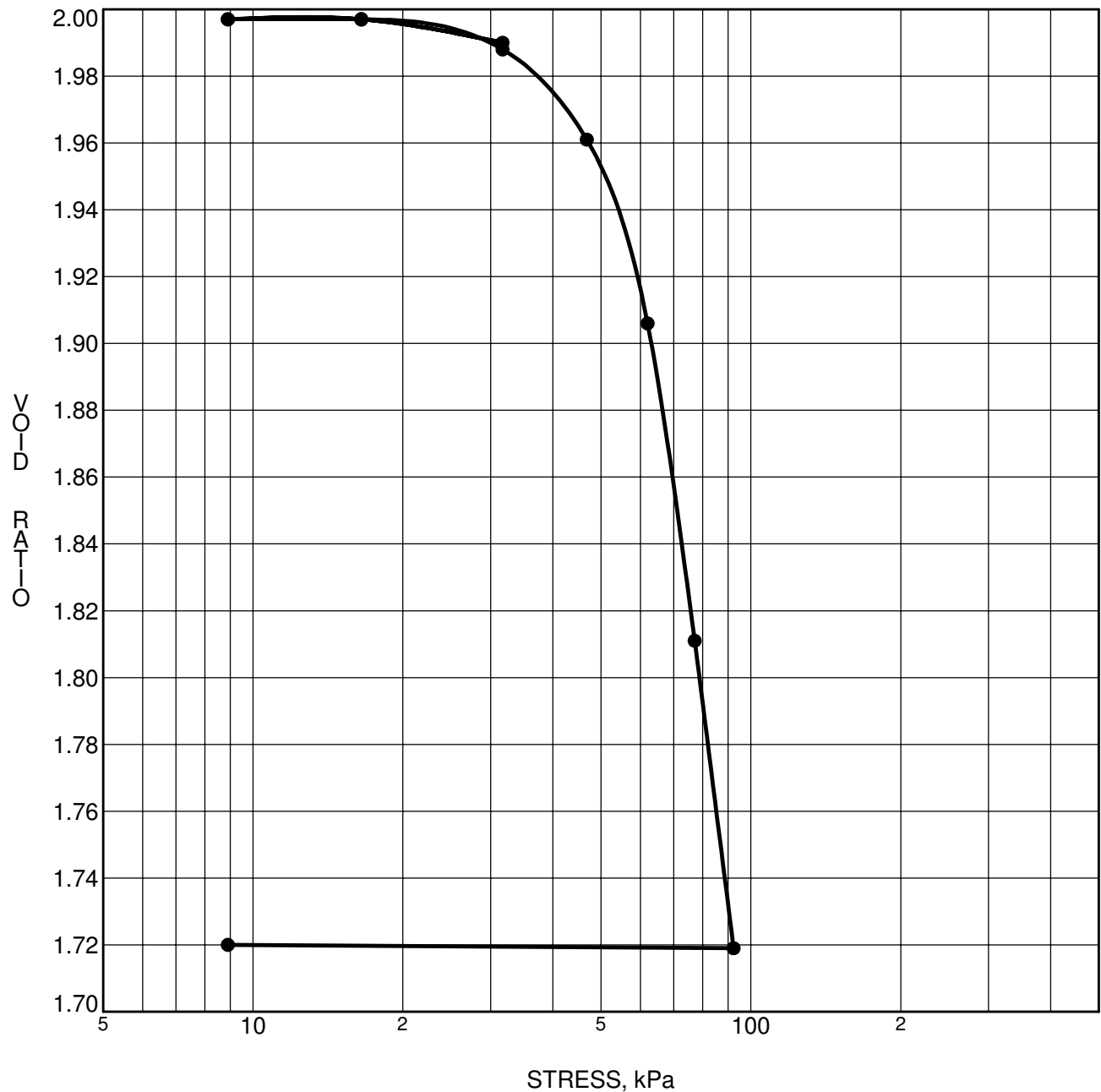
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH16-22</b>	$p'_o$	<b>43.89</b> kPa	$C_{cr}$	<b>0.030</b>
Sample No.	<b>TW6</b>	$p'_c$	<b>70.8</b> kPa	$C_c$	<b>1.935</b>
Sample Depth	<b>4.88</b> m	OC Ratio	<b>1.6</b>	$W_o$	<b>84.8</b> %
Sample Elev.	<b>76.42</b> m	Void Ratio	<b>2.332</b>	Unit Wt.	<b>15.0</b> kN/m <sup>3</sup>

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FILE NO. PG5827  
 DATE 07/28/2022

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**CONSOLIDATION  
 TEST**



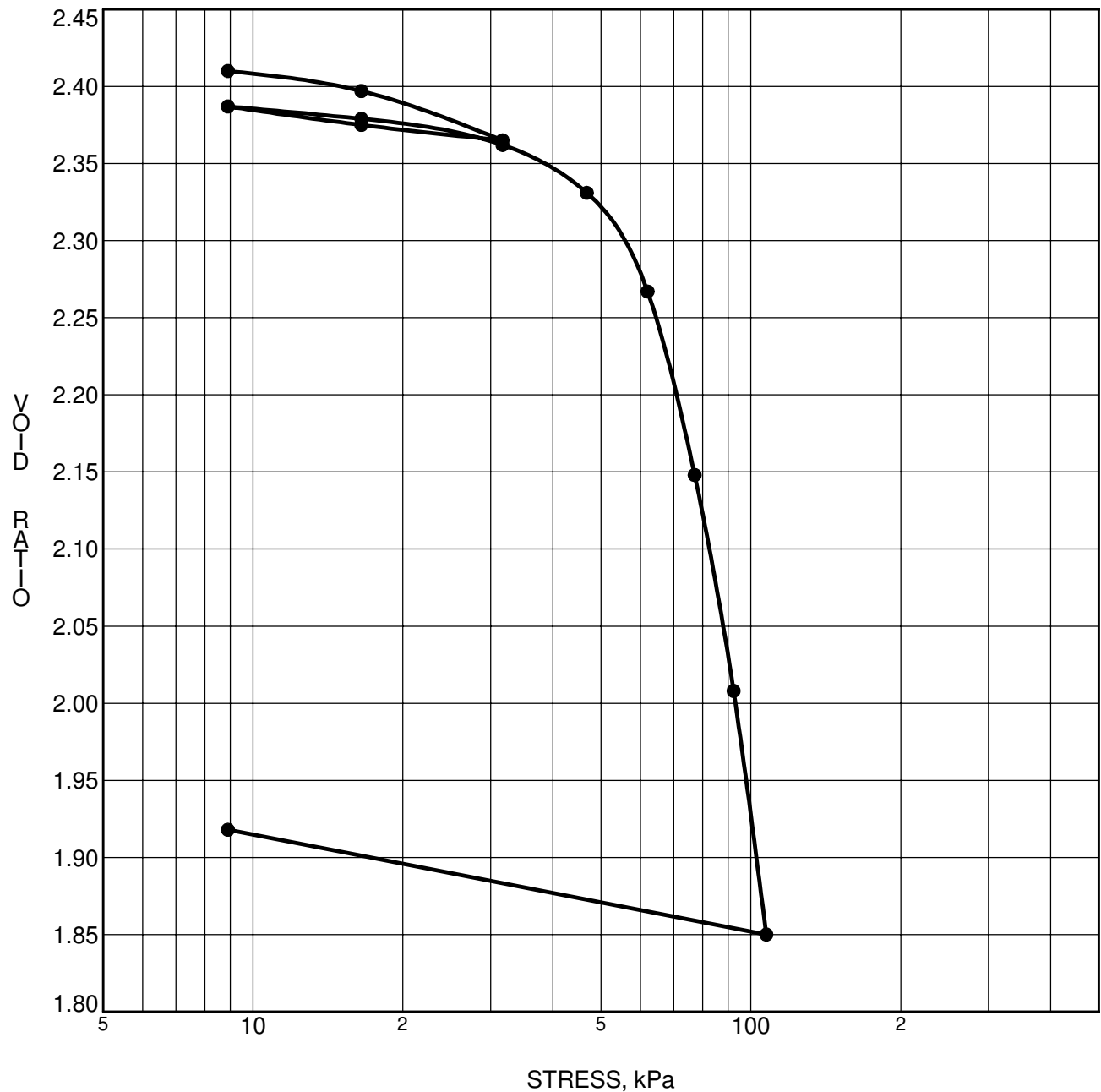
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH19-22</b>	$p'_o$	<b>27.51</b> kPa	$C_{cr}$	<b>0.017</b>
Sample No.	<b>TW3</b>	$p'_c$	<b>56.23</b> kPa	$C_c$	<b>1.087</b>
Sample Depth	<b>1.93</b> m	OC Ratio	<b>2.0</b>	$W_o$	<b>72.6</b> %
Sample Elev.	<b>76.54</b> m	Void Ratio	<b>1.997</b>	Unit Wt.	<b>15.5</b> kN/m <sup>3</sup>

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use  
 Community Development

FILE NO. PG5827  
 DATE 05/11/2022

**patersongroup** Consulting Engineers  
 9 Auriga Drive, Ottawa, Ontario K2E 7T9

**CONSOLIDATION  
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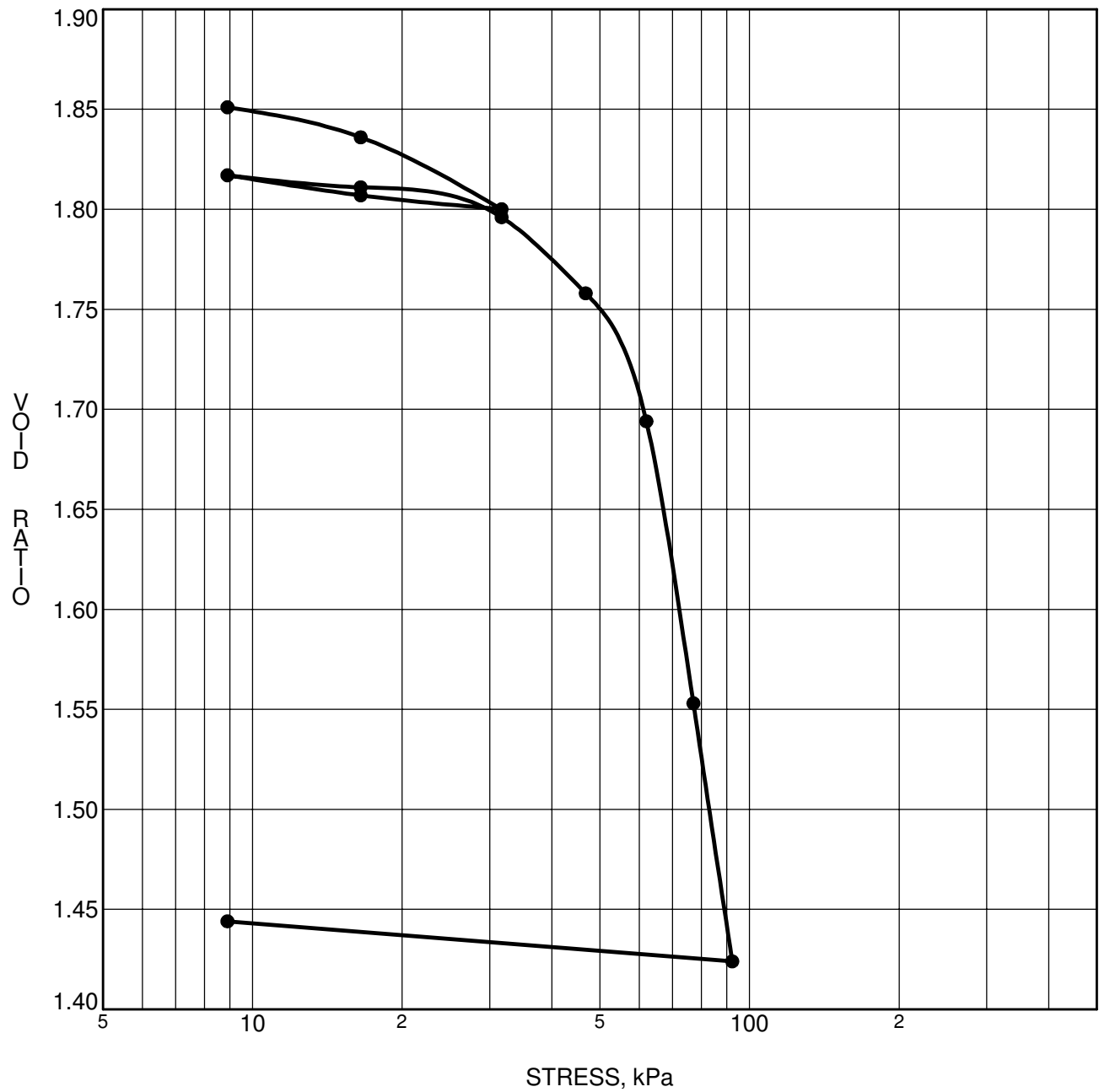
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Borehole No.	<b>BH21-22</b>	$p'_o$	<b>35.61</b> kPa	$C_{cr}$	<b>0.047</b>
Sample No.	<b>TW4</b>	$p'_c$	<b>72.44</b> kPa	$C_c$	<b>2.518</b>
Sample Depth	<b>2.59</b> m	OC Ratio	<b>2.0</b>	$W_o$	<b>87.9</b> %
Sample Elev.	<b>76.58</b> m	Void Ratio	<b>2.416</b>	Unit Wt.	<b>14.8</b> kN/m <sup>3</sup>

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use  
 Community Development

FILE NO. PG5827  
 DATE 11/01/2022

**pater-song** Consulting Engineers  
 9 Auriga Drive, Ottawa, Ontario K2E 7T9

**CONSOLIDATION  
 TEST**



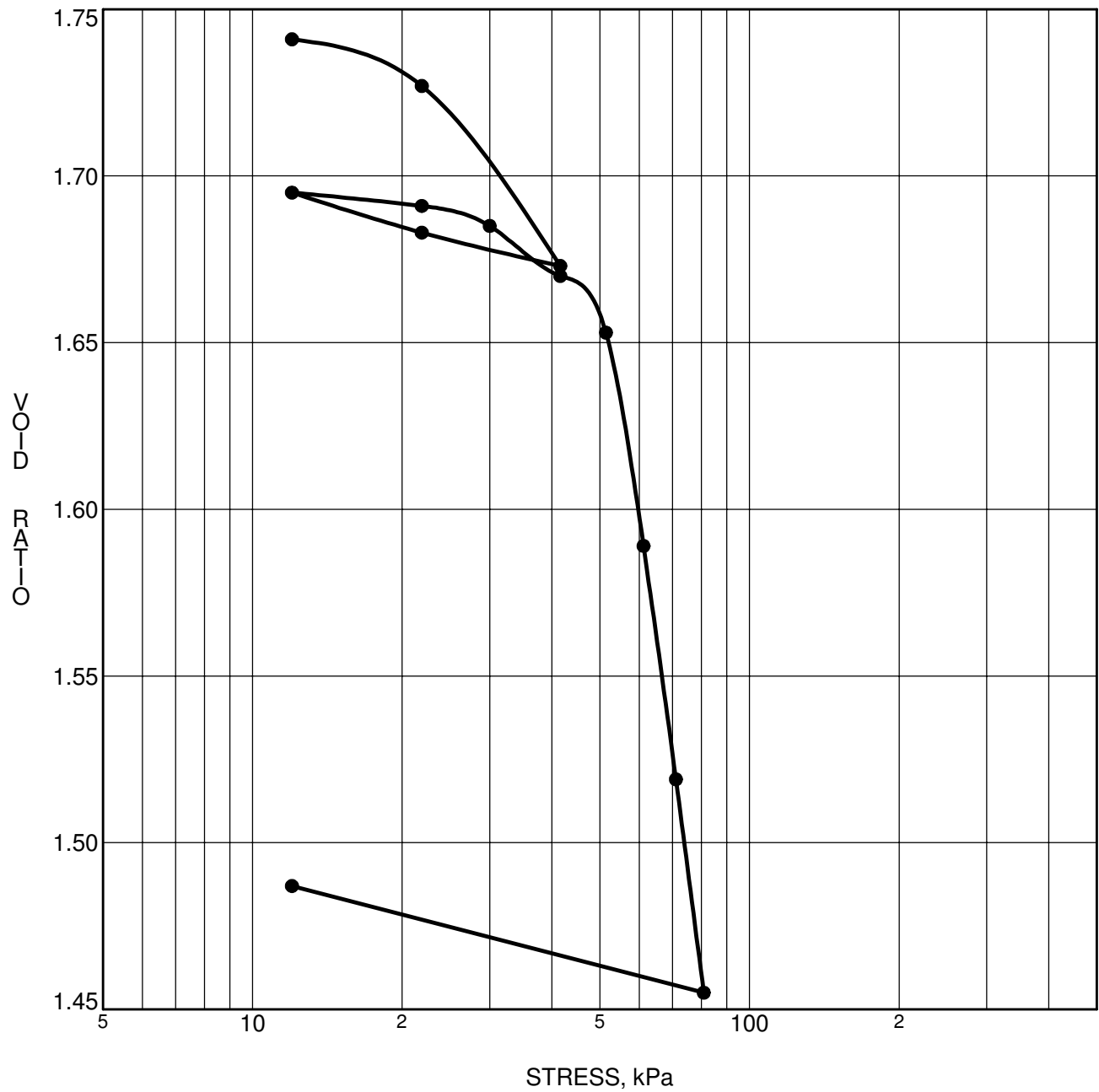
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH21-22</b>	$p'_o$	<b>45.04</b> kPa	$C_{cr}$	<b>0.037</b>
Sample No.	<b>TW6</b>	$p'_c$	<b>56.23</b> kPa	$C_c$	<b>1.579</b>
Sample Depth	<b>4.11</b> m	OC Ratio	<b>1.2</b>	$W_o$	<b>67.6</b> %
Sample Elev.	<b>75.06</b> m	Void Ratio	<b>1.859</b>	Unit Wt.	<b>15.8</b> kN/m <sup>3</sup>

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use  
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FILE NO. PG5827  
 DATE 06/10/2022

**pater-song** Consulting Engineers  
 9 Auriga Drive, Ottawa, Ontario K2E 7T9

**CONSOLIDATION  
 TEST**



CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH22A-22</b>	$p'_o$	<b>34.9</b> kPa	$C_{cr}$	<b>0.041</b>
Sample No.	<b>TW1</b>	$p'_c$	<b>53.95</b> kPa	$C_c$	<b>1.368</b>
Sample Depth	<b>2.59</b> m	OC Ratio	<b>1.5</b>	$W_o$	<b>64.1</b> %
Sample Elev.	<b>76.11</b> m	Void Ratio	<b>1.763</b>	Unit Wt.	<b>16.0</b> kN/m <sup>3</sup>

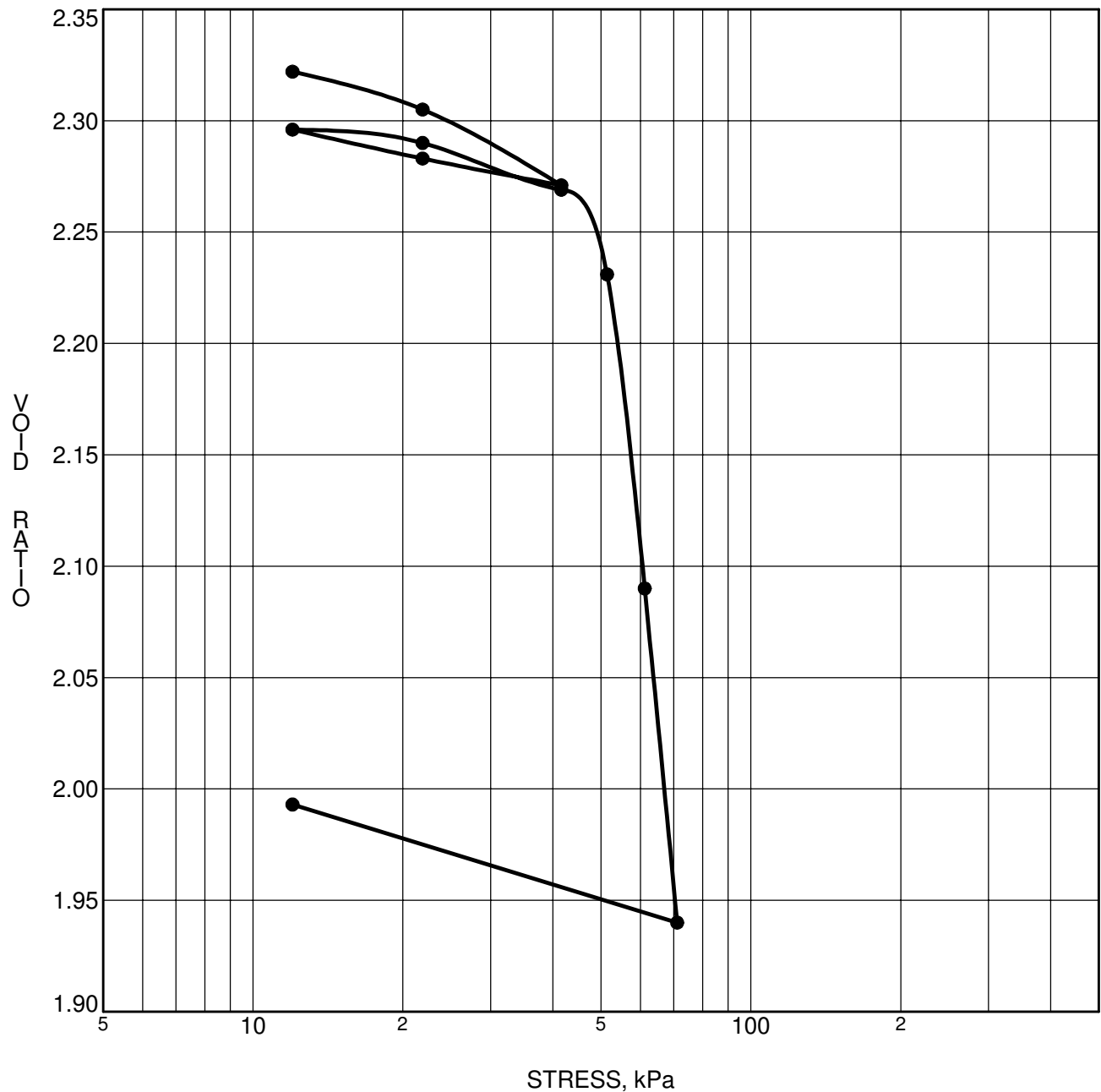
CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use  
 Community Development

FILE NO. PG5827  
 DATE 06/10/2022

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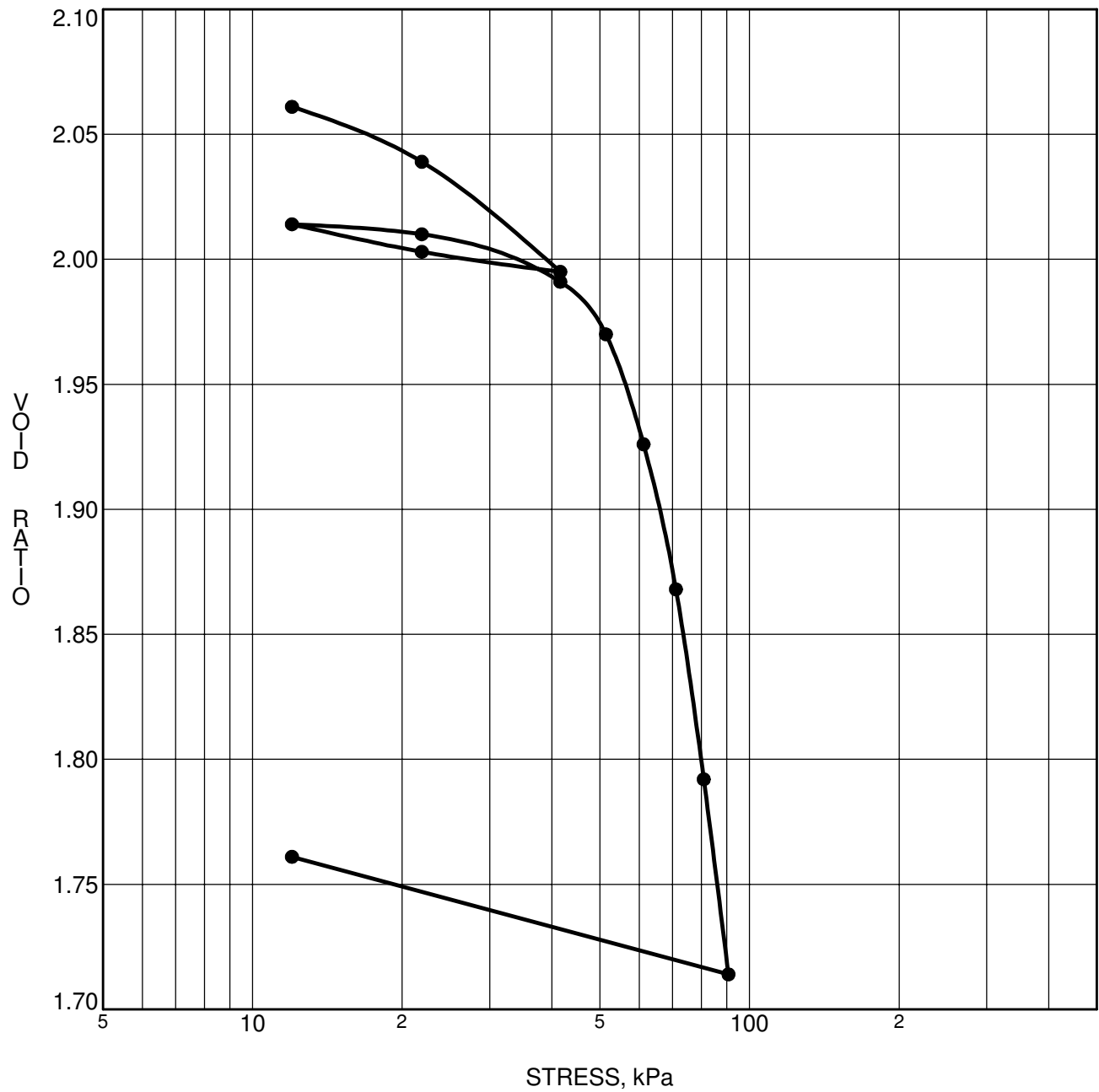
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH27-22</b>	$p'_o$	<b>23.37</b> kPa	$C_{cr}$	<b>0.047</b>
Sample No.	<b>W4</b>	$p'_c$	<b>53.13</b> kPa	$C_c$	<b>2.364</b>
Sample Depth	<b>1.91</b> m	OC Ratio	<b>2.3</b>	$W_o$	<b>85.1</b> %
Sample Elev.	<b>77.81</b> m	Void Ratio	<b>2.339</b>	Unit Wt.	kN/m <sup>3</sup>

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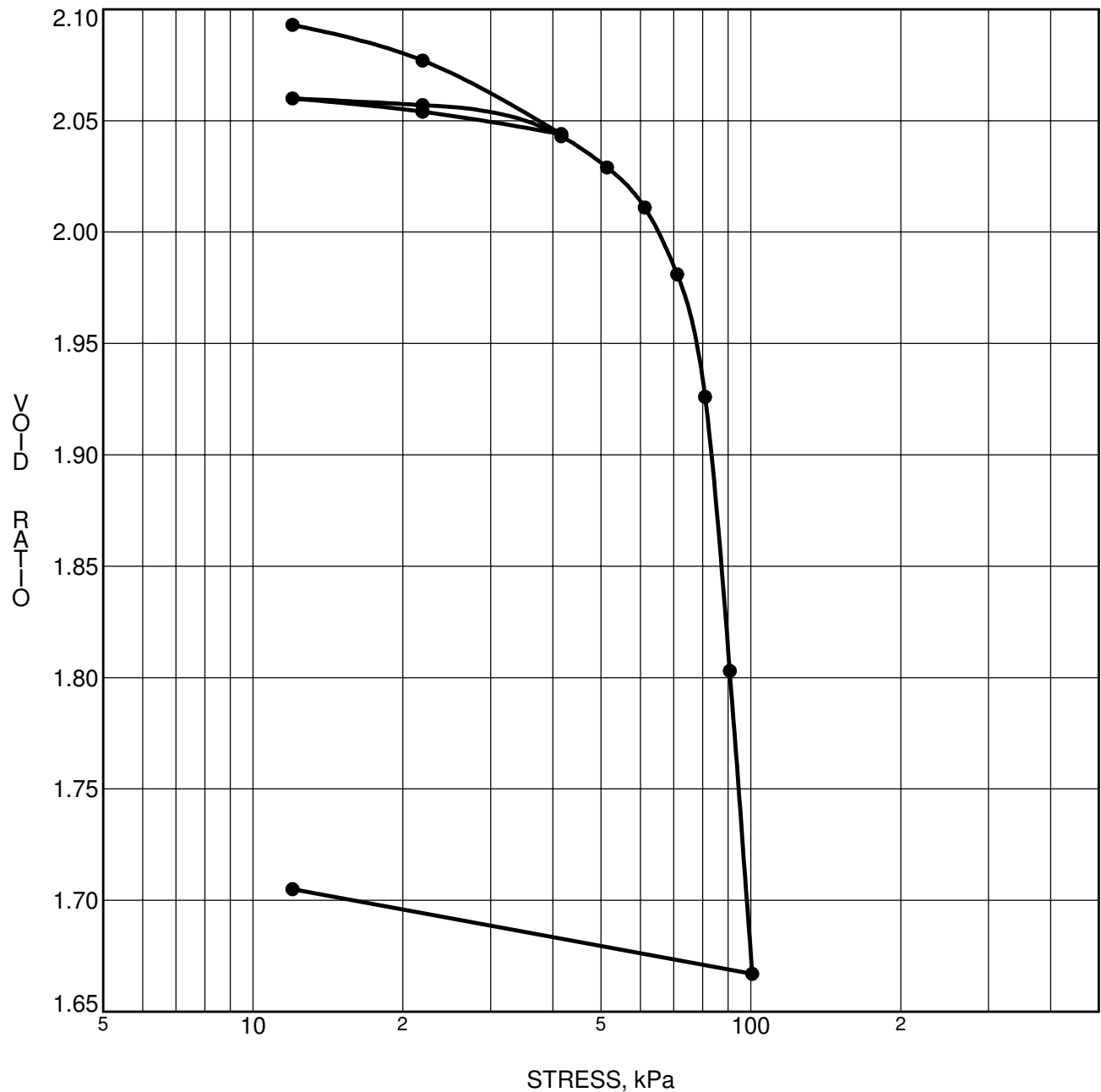
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH28-22</b>	$p'_o$	<b>25.69</b> kPa	$C_{cr}$	<b>0.041</b>
Sample No.	<b>TW5</b>	$p'_c$	<b>67.09</b> kPa	$C_c$	<b>1.909</b>
Sample Depth	<b>3.35</b> m	OC Ratio	<b>2.6</b>	$W_o$	<b>75.8</b> %
Sample Elev.	<b>74.18</b> m	Void Ratio	<b>2.086</b>	Unit Wt.	<b>15.4</b> kN/m <sup>3</sup>

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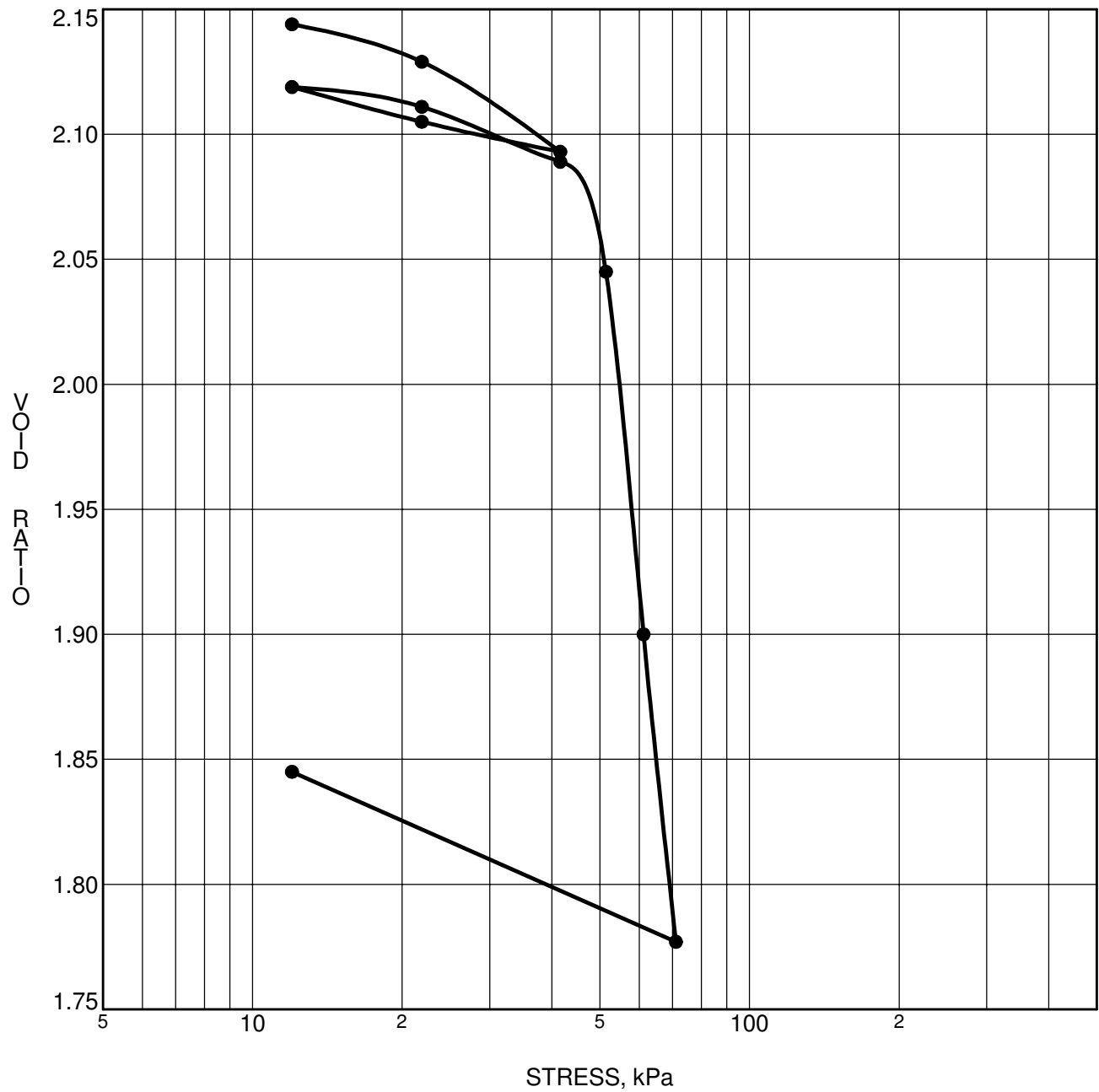
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH30-22</b>	$p'_o$	<b>56.33</b> kPa	$C_{cr}$	<b>0.091</b>
Sample No.	<b>TW10</b>	$p'_c$	<b>81.41</b> kPa	$C_c$	<b>3.302</b>
Sample Depth	<b>7.16</b> m	OC Ratio	<b>1.4</b>	$W_o$	<b>6.7</b> %
Sample Elev.	<b>72.55</b> m	Void Ratio	<b>2.11</b>	Unit Wt.	<b>15.3</b> kN/m <sup>3</sup>

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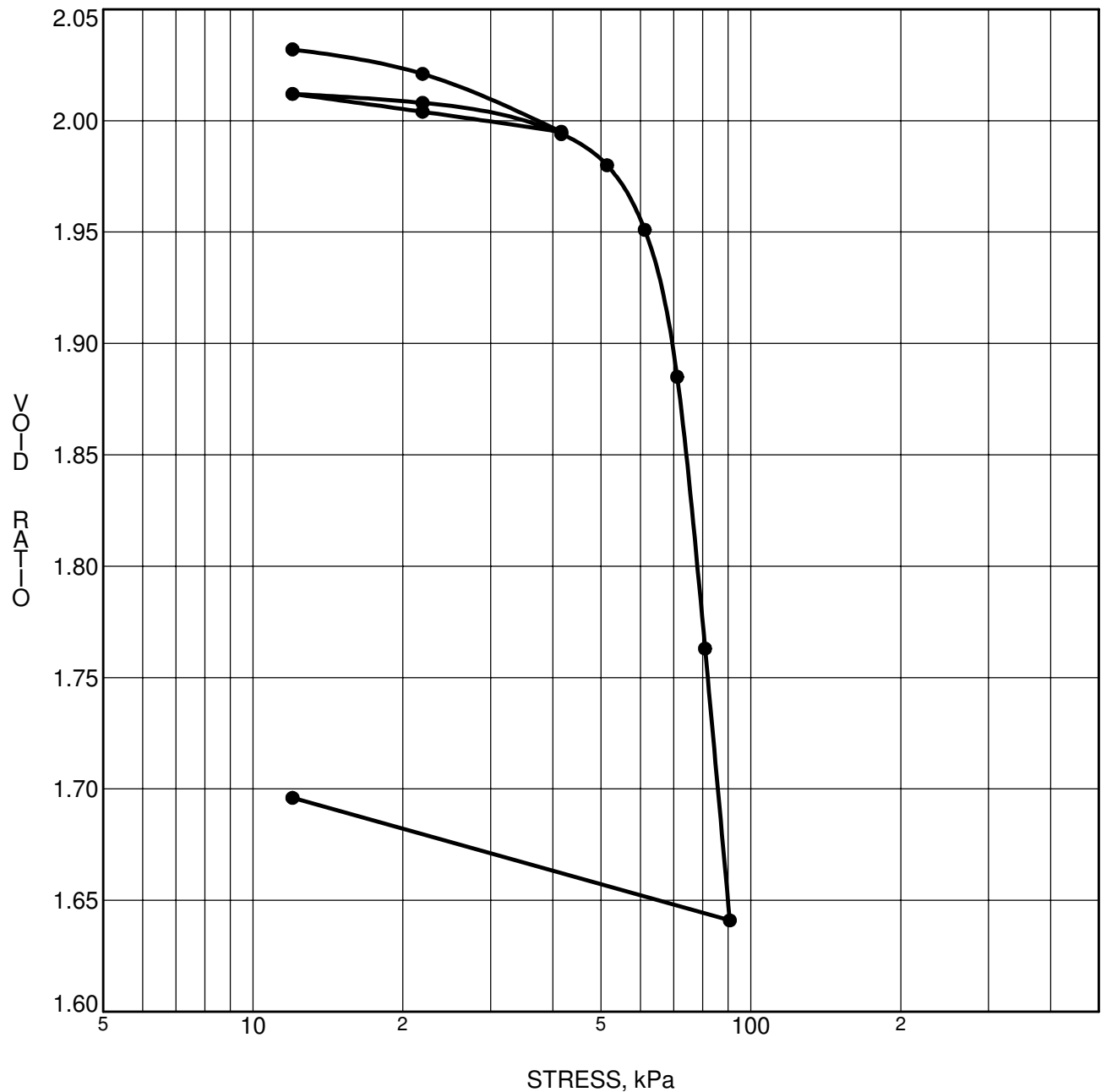
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH34-22</b>	$p'_o$	<b>29.3</b> kPa	$C_{cr}$	<b>0.056</b>
Sample No.	<b>TW4</b>	$p'_c$	<b>50.74</b> kPa	$C_c$	<b>1.916</b>
Sample Depth	<b>2.67</b> m	OC Ratio	<b>1.7</b>	$W_o$	<b>78.6</b> %
Sample Elev.	<b>76.38</b> m	Void Ratio	<b>2.161</b>	Unit Wt.	<b>15.2</b> kN/m <sup>3</sup>

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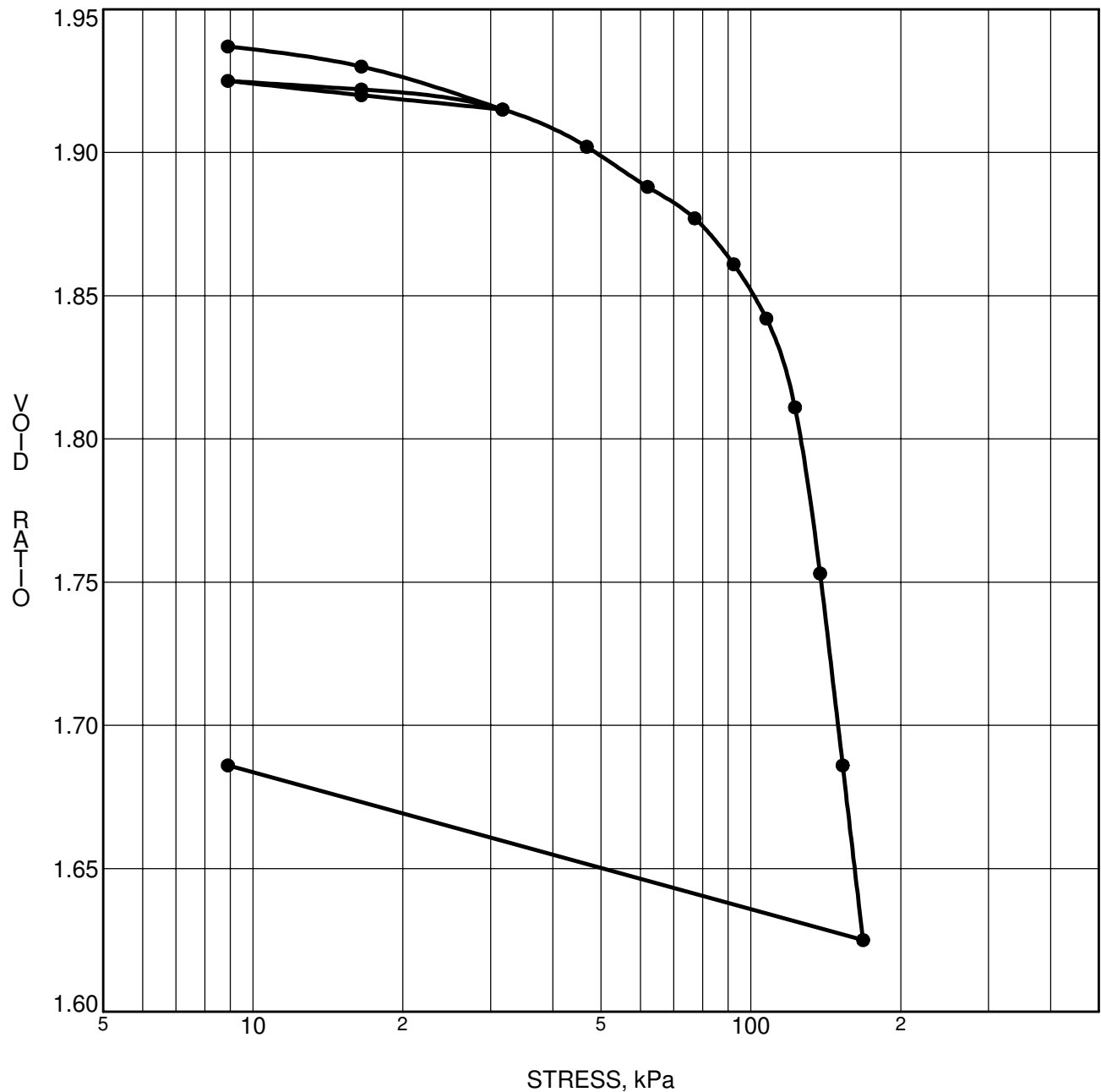
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH36-22</b>	$p'_o$	<b>32.97</b> kPa	$C_{cr}$	<b>0.036</b>
Sample No.	<b>TW5</b>	$p'_c$	<b>70</b> kPa	$C_c$	<b>2.638</b>
Sample Depth	<b>3.35</b> m	OC Ratio	<b>2.1</b>	$W_o$	<b>74.5</b> %
Sample Elev.	<b>75.27</b> m	Void Ratio	<b>2.048</b>	Unit Wt.	<b>15.4</b> kN/m <sup>3</sup>

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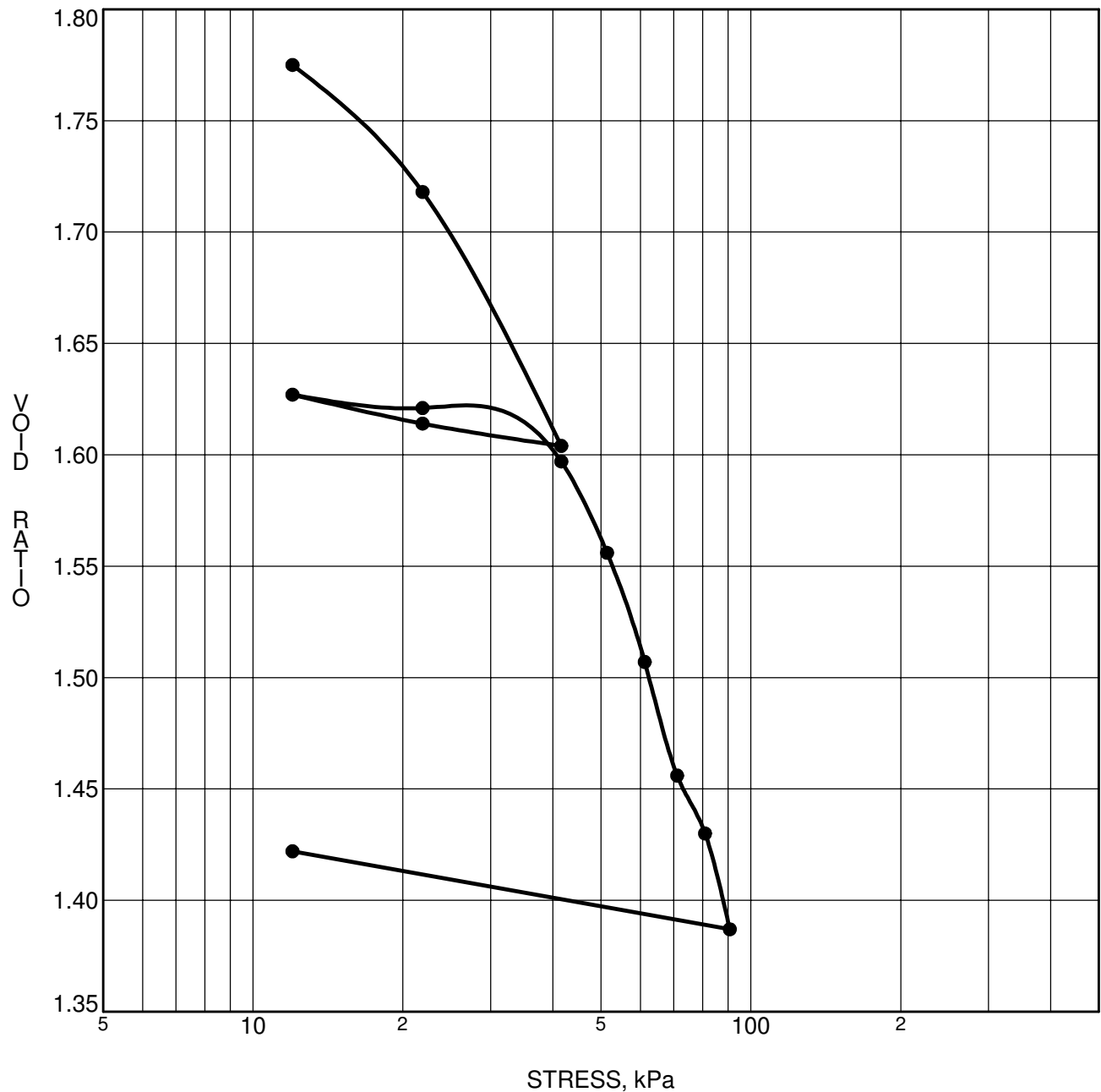
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH37-22</b>	$p'_o$	<b>86.41</b> kPa	$C_{cr}$	<b>0.018</b>
Sample No.	<b>TW15</b>	$p'_c$	<b>112.2</b> kPa	$C_c$	<b>1.471</b>
Sample Depth	<b>10.97</b> m	OC Ratio	<b>1.3</b>	$W_o$	<b>70.6</b> %
Sample Elev.	<b>66.92</b> m	Void Ratio	<b>1.94</b>	Unit Wt.	<b>15.7</b> kN/m <sup>3</sup>

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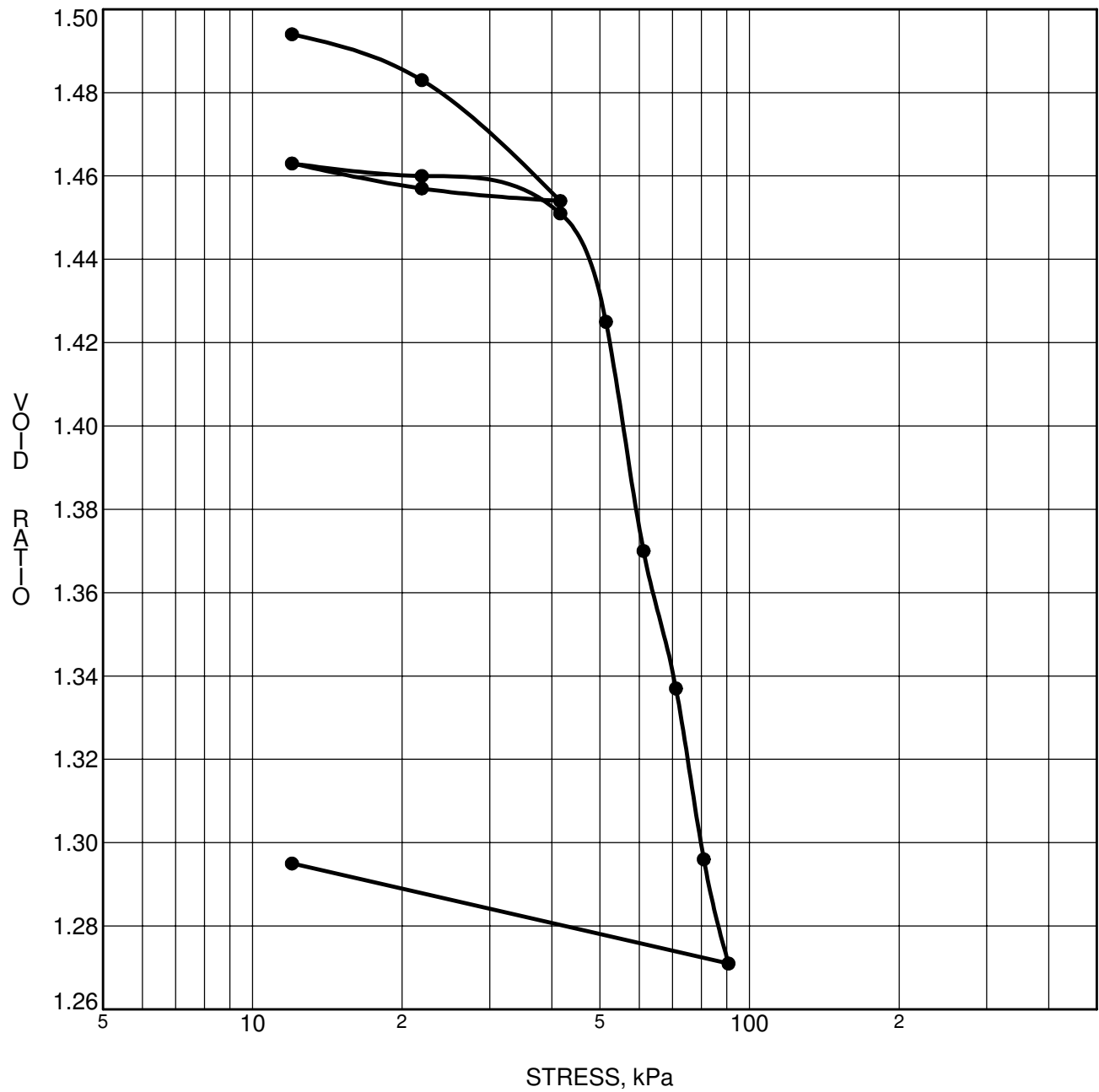
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH38A-22</b>	$p'_o$	<b>39.62</b> kPa	$C_{cr}$	<b>0.053</b>
Sample No.	<b>TW5</b>	$p'_c$	<b>62.52</b> kPa	$C_c$	<b>0.935</b>
Sample Depth	<b>3.35</b> m	OC Ratio	<b>1.6</b>	$W_o$	<b>66.1</b> %
Sample Elev.	<b>74.42</b> m	Void Ratio	<b>1.817</b>	Unit Wt.	<b>15.9</b> kN/m <sup>3</sup>

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CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH40-22</b>	$p'_o$	<b>57.28</b> kPa	$C_{cr}$	<b>0.042</b>
Sample No.	<b>TW8</b>	$p'_c$	<b>54.12</b> kPa	$C_c$	<b>0.750</b>
Sample Depth	<b>5.74</b> m	OC Ratio	<b>0.9</b>	$W_o$	<b>55.0</b> %
Sample Elev.	<b>73.77</b> m	Void Ratio	<b>1.512</b>	Unit Wt.	<b>16.7</b> kN/m <sup>3</sup>

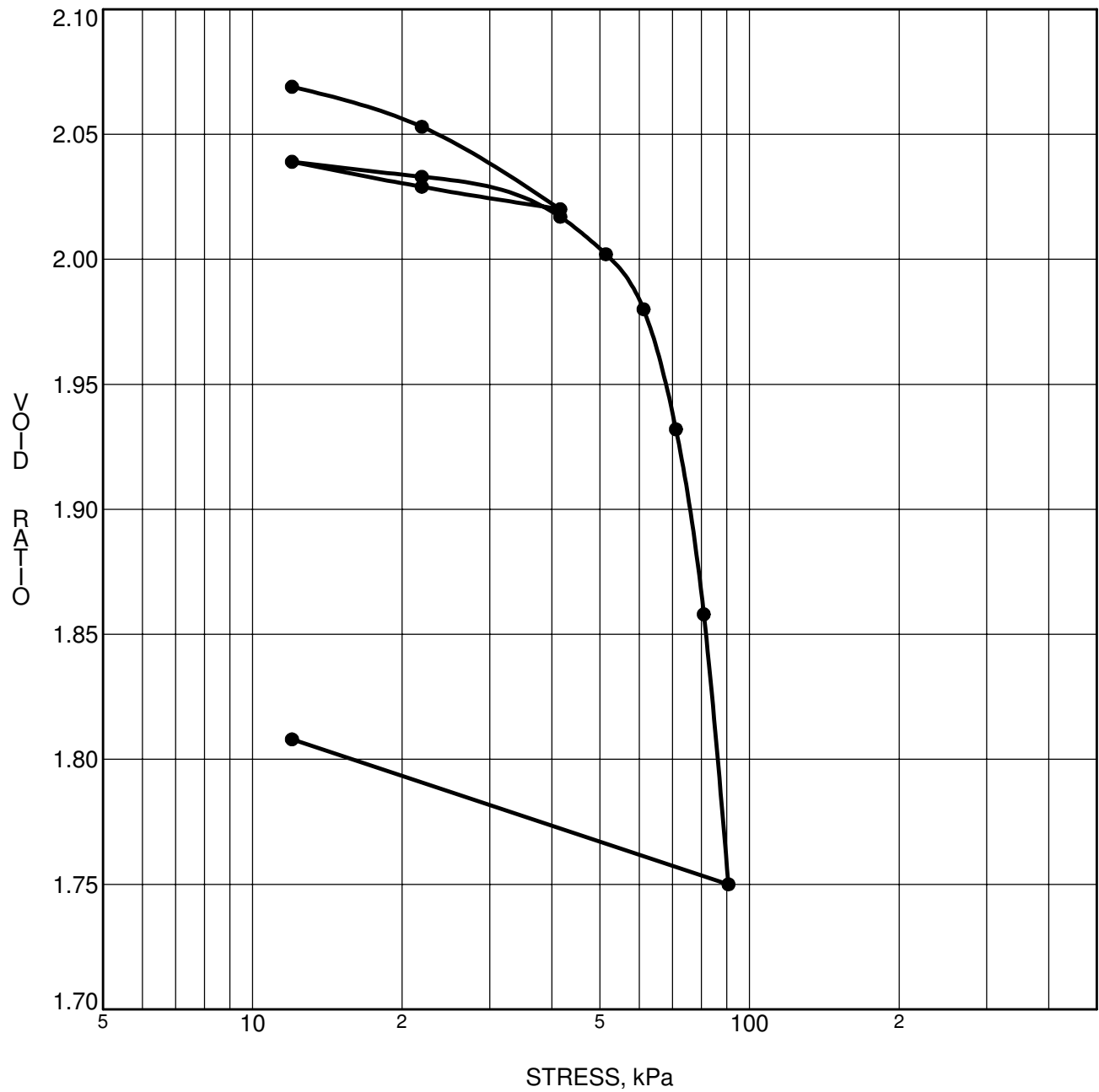
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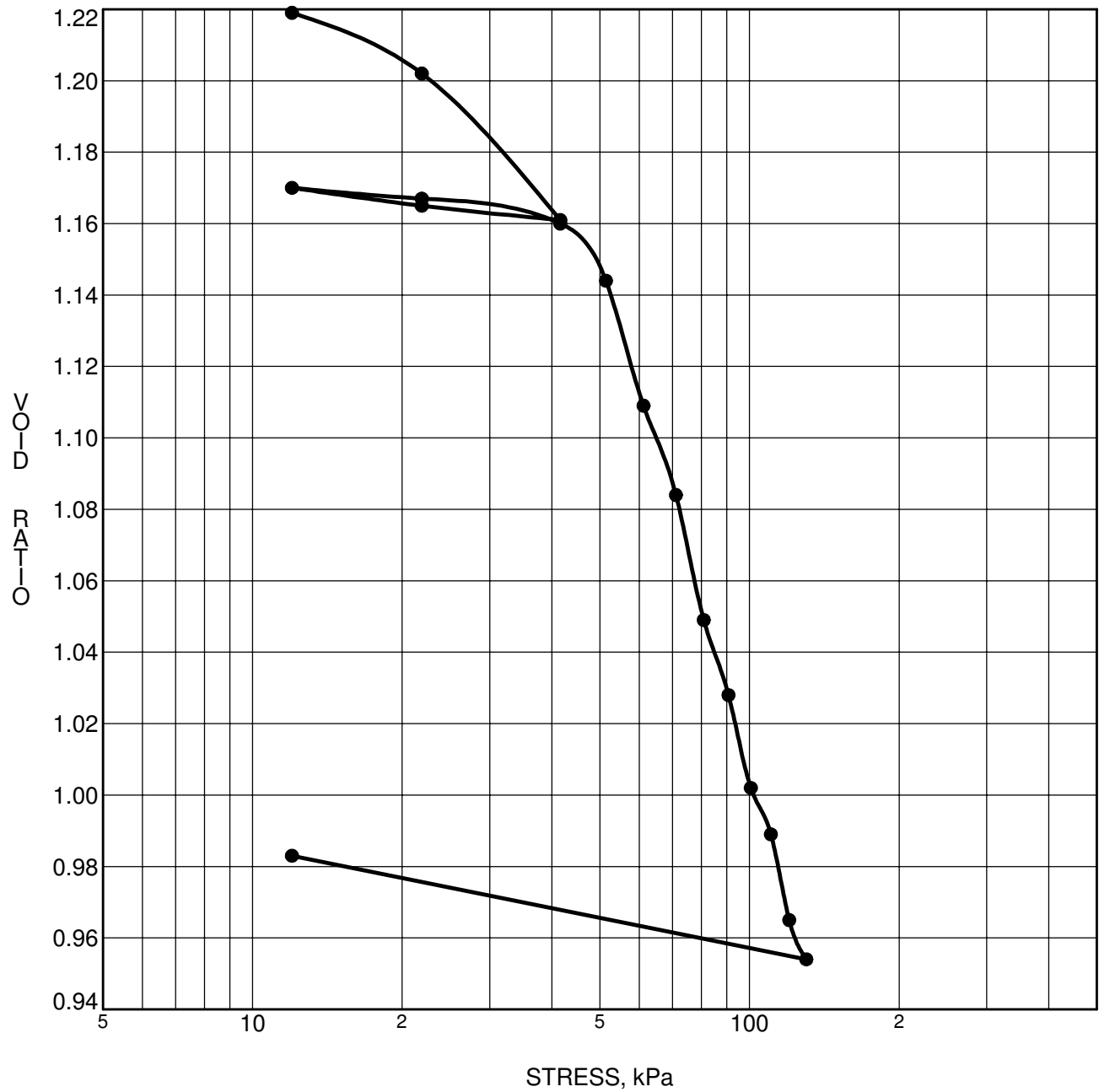
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH43-22</b>	$p'_o$	<b>51.23</b> kPa	$C_{cr}$	<b>0.045</b>
Sample No.	<b>TW6</b>	$p'_c$	<b>71.34</b> kPa	$C_c$	<b>2.250</b>
Sample Depth	<b>5.05</b> m	OC Ratio	<b>1.4</b>	$W_o$	<b>76.0</b> %
Sample Elev.	<b>74.86</b> m	Void Ratio	<b>2.089</b>	Unit Wt.	<b>15.4</b> kN/m <sup>3</sup>

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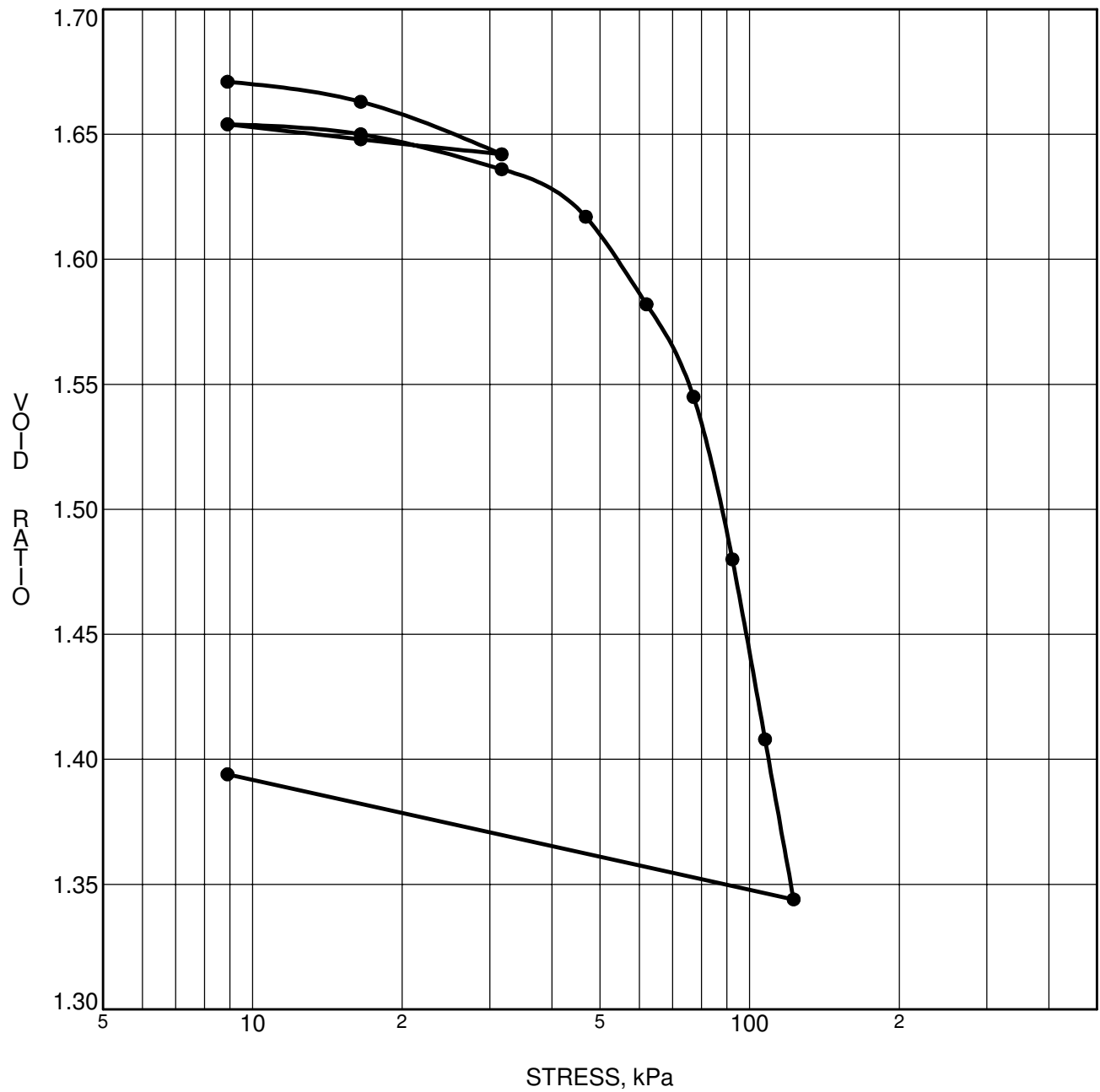
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH44-22</b>	$p'_o$	<b>59.4 kPa</b>	$C_{cr}$	<b>0.018</b>
Sample No.	<b>TW7</b>	$p'_c$	<b>59.4 kPa</b>	$C_c$	<b>0.484</b>
Sample Depth	<b>5.82 m</b>	OC Ratio	<b>1.0</b>	$W_o$	<b>45.1 %</b>
Sample Elev.	<b>73.55 m</b>	Void Ratio	<b>1.24</b>	Unit Wt.	<b>17.5 kN/m<sup>3</sup></b>

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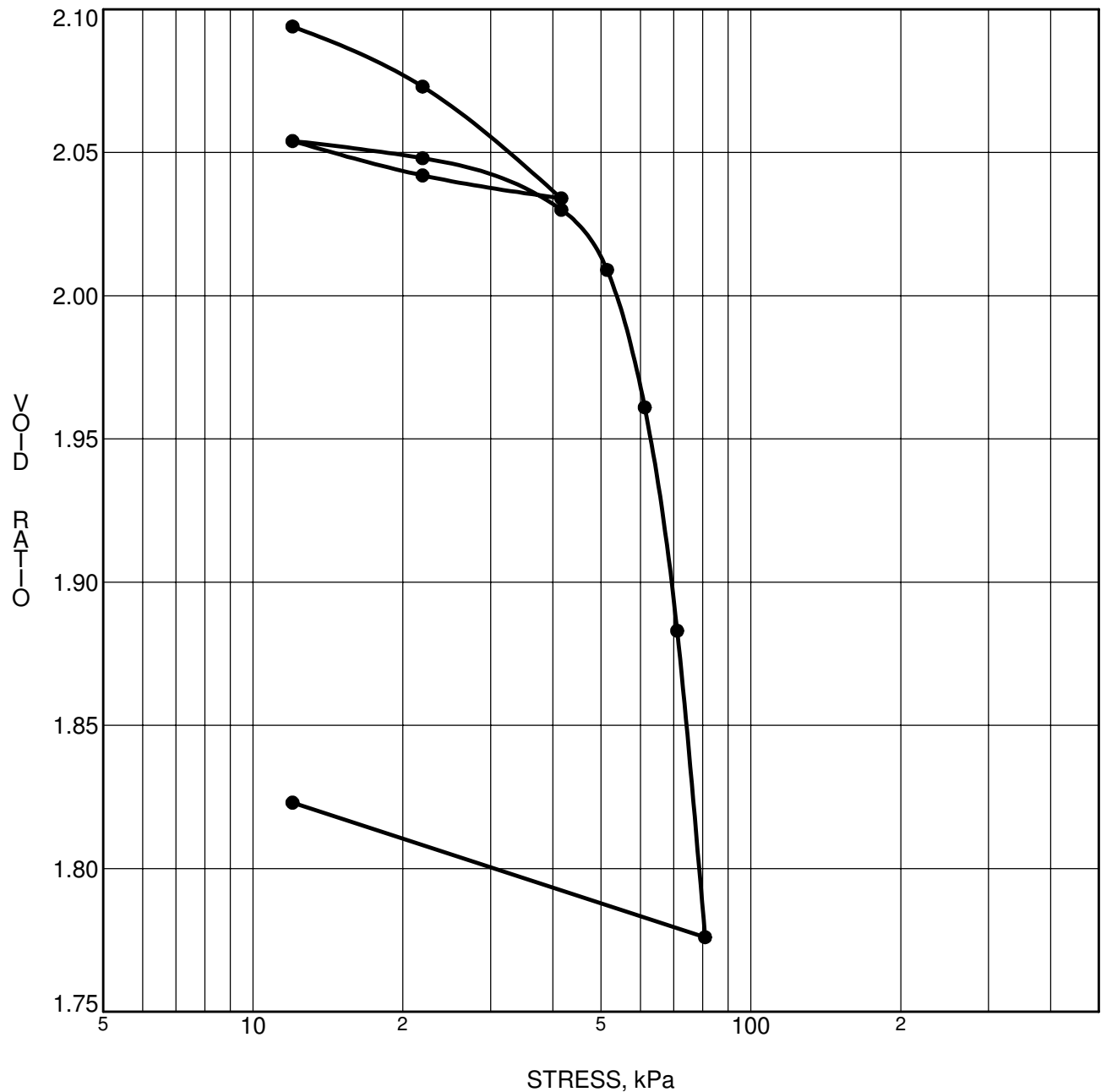
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH45-22</b>	$p'_o$	<b>45.24</b> kPa	$C_{cr}$	<b>0.033</b>
Sample No.	<b>TW6</b>	$p'_c$	<b>74.47</b> kPa	$C_c$	<b>1.148</b>
Sample Depth	<b>4.12</b> m	OC Ratio	<b>1.6</b>	$W_o$	<b>61.0</b> %
Sample Elev.	<b>76.08</b> m	Void Ratio	<b>1.677</b>	Unit Wt.	<b>16.2</b> kN/m <sup>3</sup>

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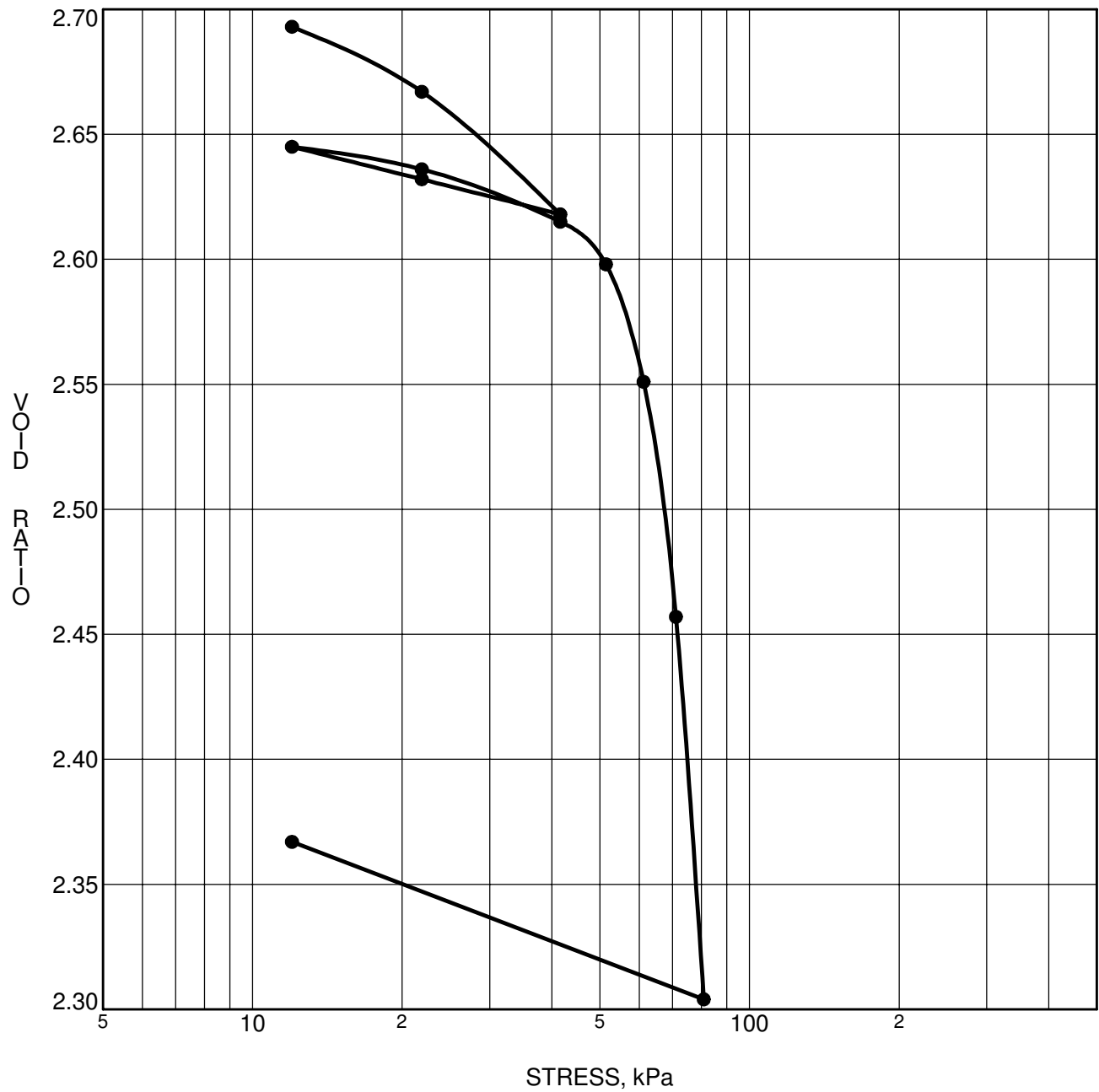
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH46A-22</b>	$p'_o$	<b>72.79</b> kPa	$C_{cr}$	<b>0.046</b>
Sample No.	<b>TW3</b>	$p'_c$	<b>63.1</b> kPa	$C_c$	<b>2.000</b>
Sample Depth	<b>7.26</b> m	OC Ratio	<b>0.9</b>	$W_o$	<b>76.4</b> %
Sample Elev.	<b>72.92</b> m	Void Ratio	<b>2.101</b>	Unit Wt.	<b>15.4</b> kN/m <sup>3</sup>

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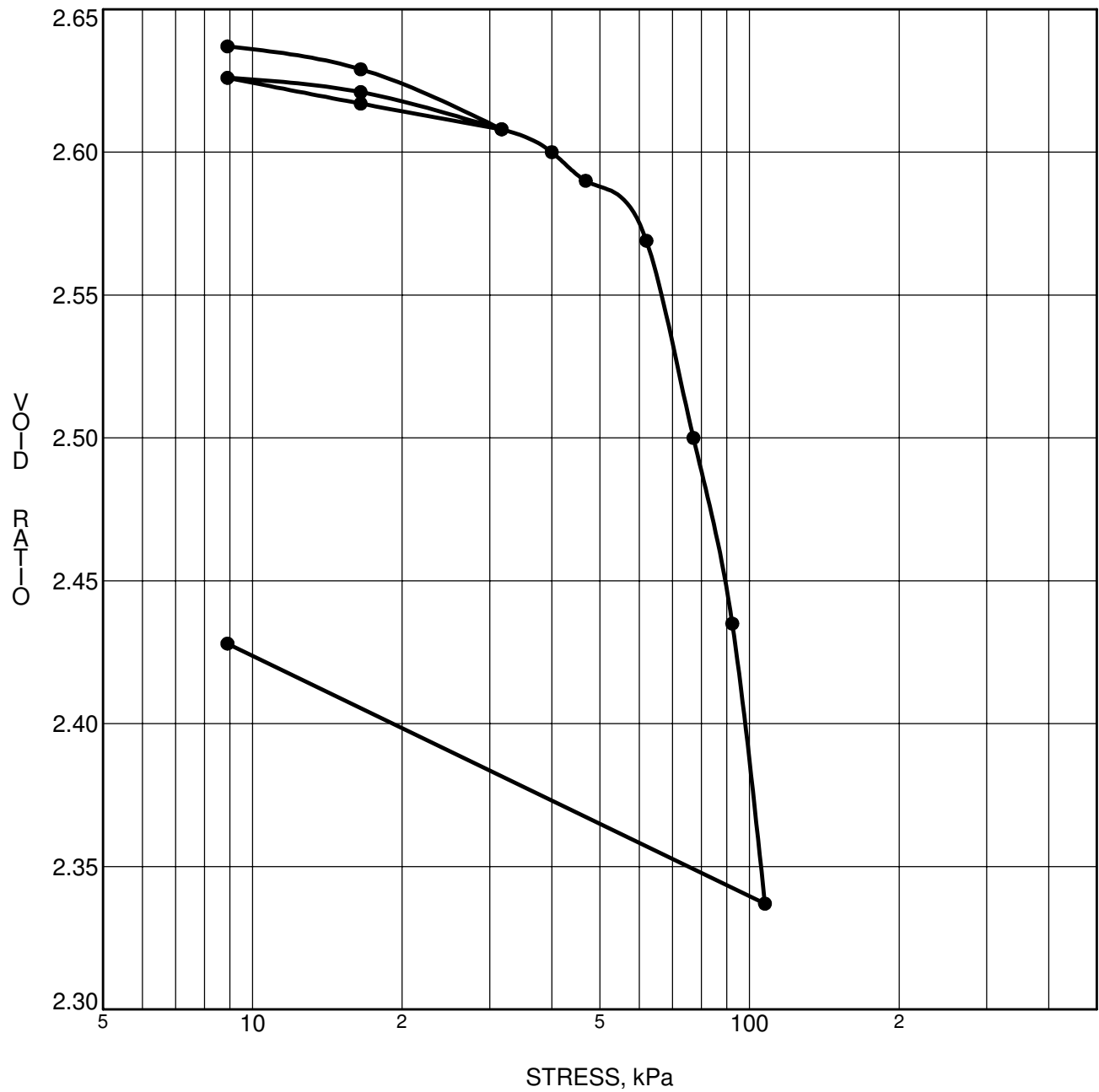
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH47-22</b>	$p'_o$	<b>50.32</b> kPa	$C_{cr}$	<b>0.055</b>
Sample No.	<b>TW6</b>	$p'_c$	<b>63.096</b> kPa	$C_c$	<b>2.647</b>
Sample Depth	<b>4.67</b> m	OC Ratio	<b>1.3</b>	$W_o$	<b>99.5</b> %
Sample Elev.	<b>74.32</b> m	Void Ratio	<b>2.735</b>	Unit Wt.	<b>14.4</b> kN/m <sup>3</sup>

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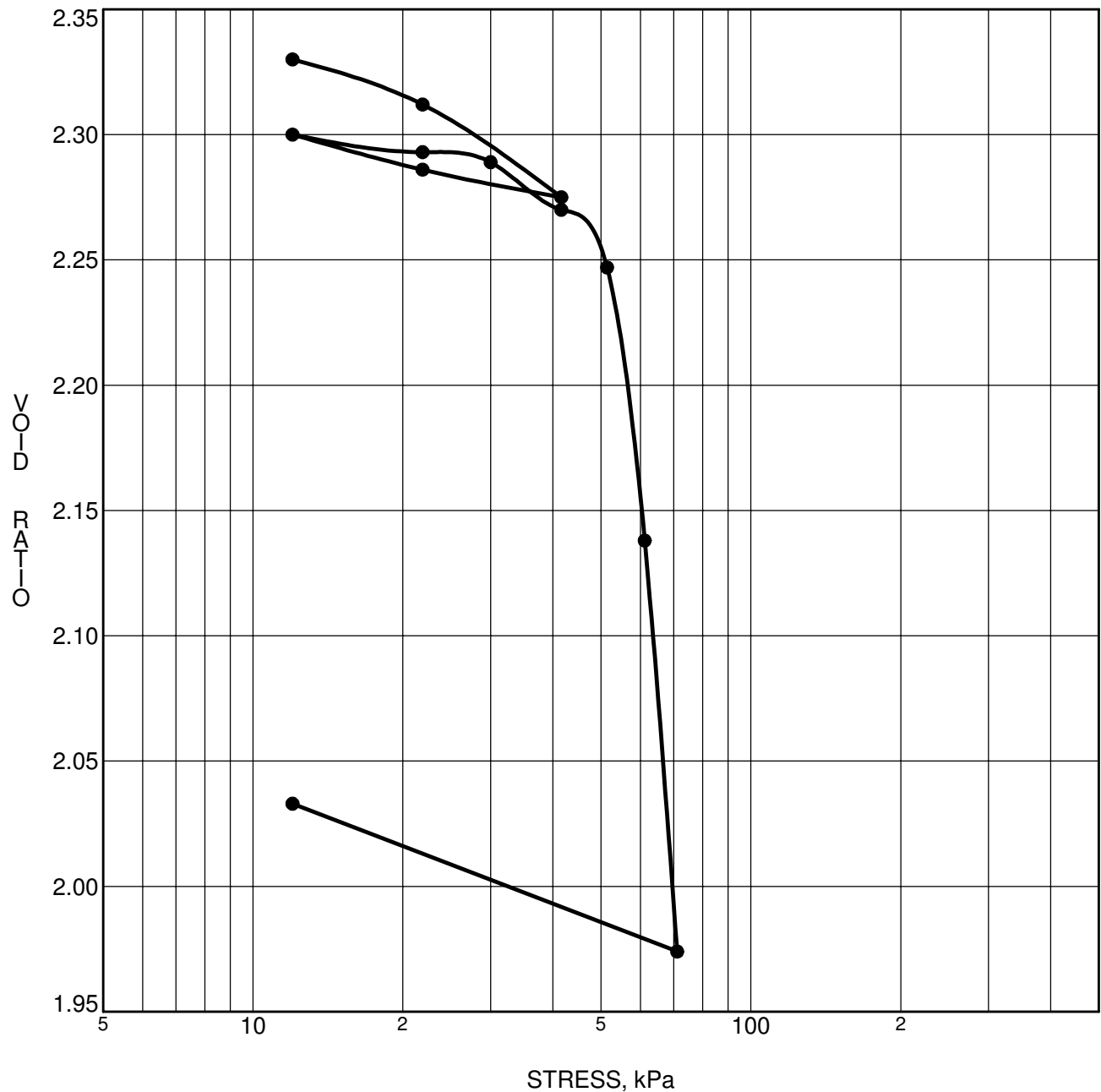
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH48-22</b>	$p'_o$	<b>44.96</b> kPa	$C_{cr}$	<b>0.033</b>
Sample No.	<b>TW6</b>	$p'_c$	<b>74.13</b> kPa	$C_c$	<b>1.515</b>
Sample Depth	<b>4.22</b> m	OC Ratio	<b>1.6</b>	$W_o$	<b>97.3</b> %
Sample Elev.	<b>74.59</b> m	Void Ratio	<b>2.676</b>	Unit Wt.	<b>14.5</b> kN/m <sup>3</sup>

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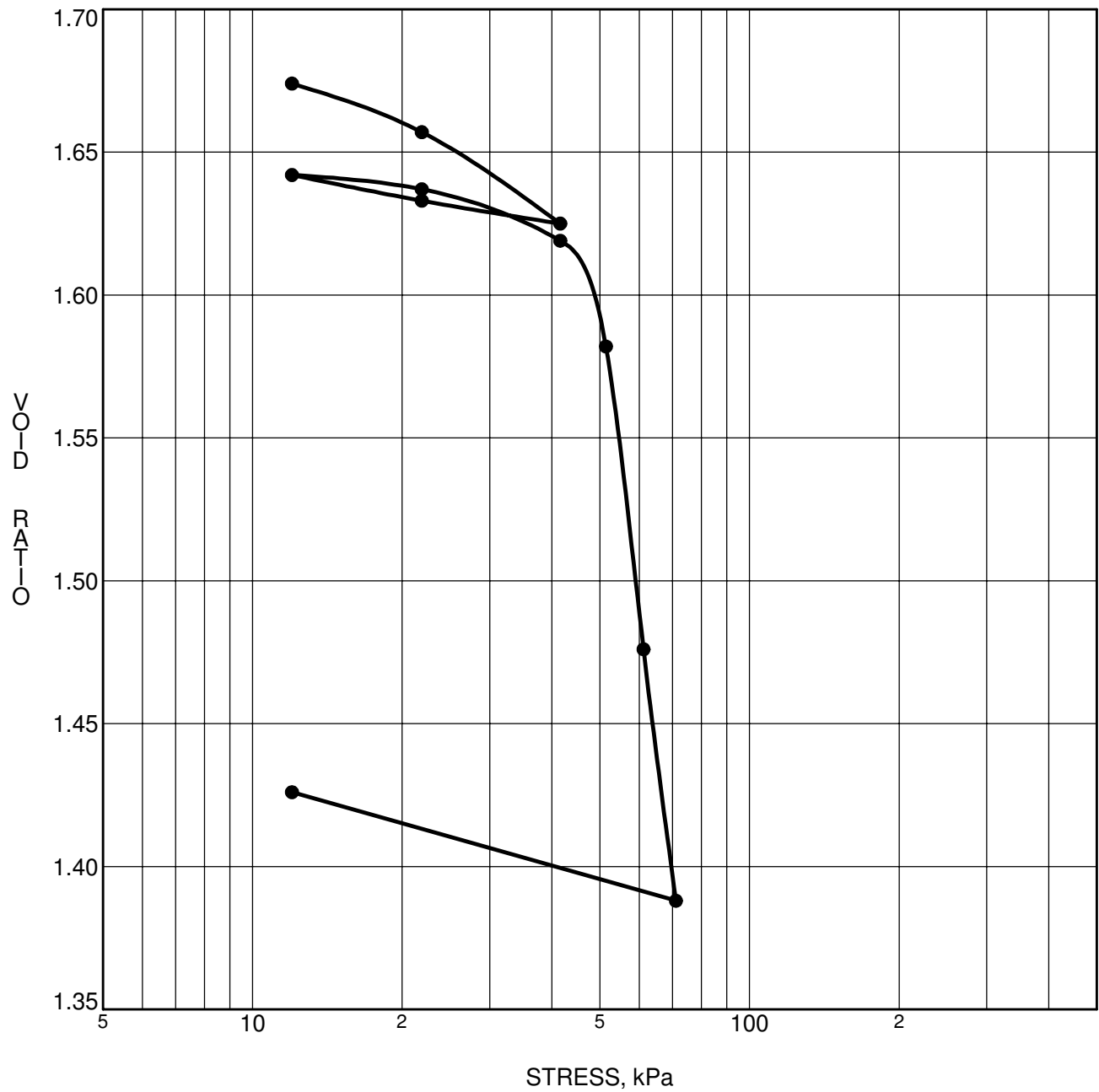
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH49A-22</b>	$p'_o$	<b>36.74</b> kPa	$C_{cr}$	<b>0.075</b>
Sample No.	<b>TW3</b>	$p'_c$	<b>54.95</b> kPa	$C_c$	<b>2.586</b>
Sample Depth	<b>2.59</b> m	OC Ratio	<b>1.5</b>	$W_o$	<b>86.0</b> %
Sample Elev.	<b>76.67</b> m	Void Ratio	<b>2.365</b>	Unit Wt.	<b>14.9</b> kN/m <sup>3</sup>

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CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH49A-22</b>	$p'_o$	<b>50.11</b> kPa	$C_{cr}$	<b>0.043</b>
Sample No.	<b>TW4</b>	$p'_c$	<b>50.12</b> kPa	$C_c$	<b>1.364</b>
Sample Depth	<b>4.75</b> m	OC Ratio	<b>1.0</b>	$W_o$	<b>63.2</b> %
Sample Elev.	<b>74.51</b> m	Void Ratio	<b>1.737</b>	Unit Wt.	<b>16.1</b> kN/m <sup>3</sup>

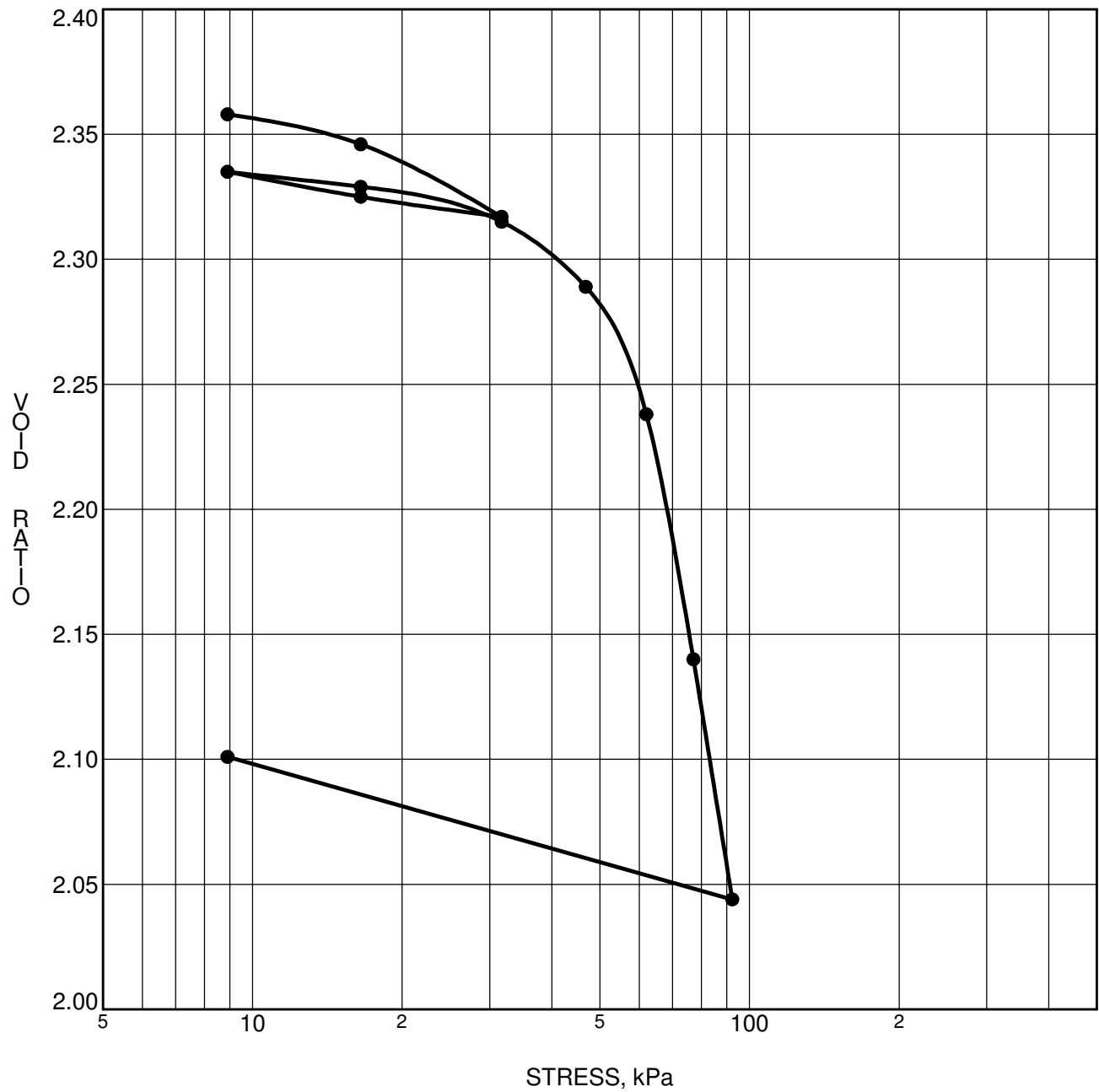
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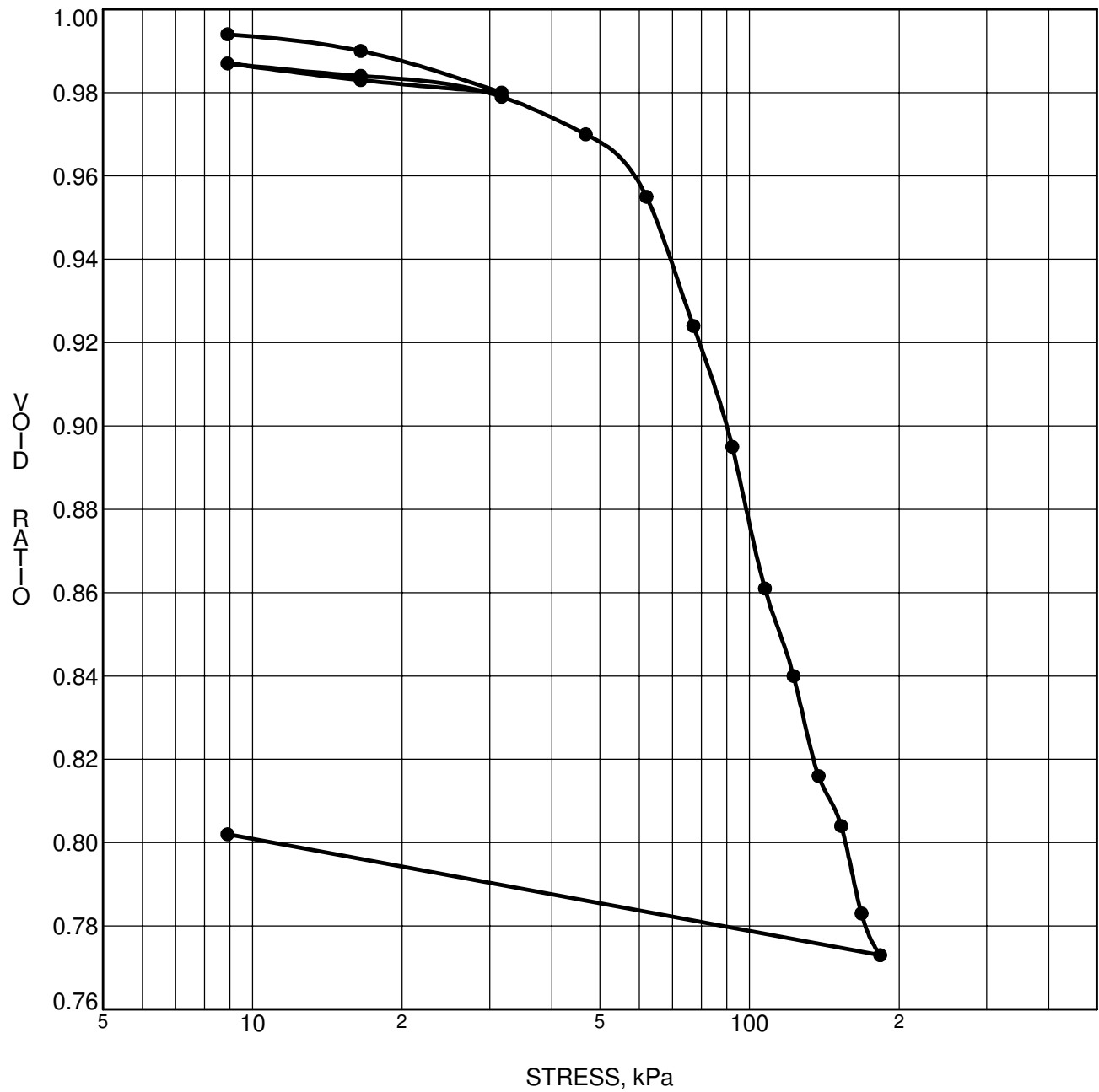
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH55-22</b>	$p'_o$	<b>54.71</b> kPa	$C_{cr}$	<b>0.037</b>
Sample No.	<b>TW8</b>	$p'_c$	<b>57.54</b> kPa	$C_c$	<b>1.111</b>
Sample Depth	<b>5.79</b> m	OC Ratio	<b>1.1</b>	$W_o$	<b>86.0</b> %
Sample Elev.	<b>74.45</b> m	Void Ratio	<b>2.365</b>	Unit Wt.	<b>2.4</b> kN/m <sup>3</sup>

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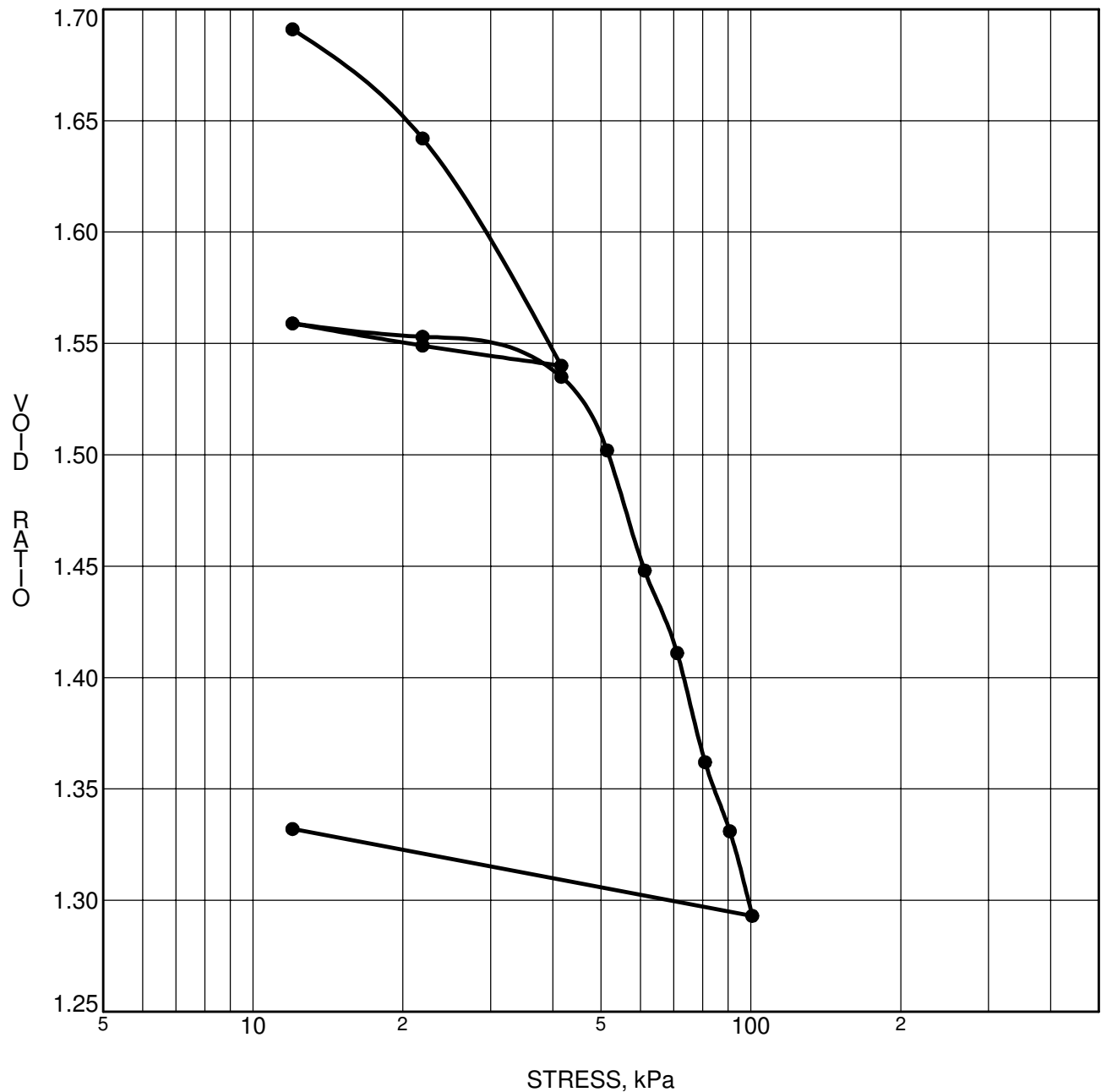
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH56A-22</b>	$p'_o$	<b>28.25</b> kPa	$C_{cr}$	<b>0.022</b>
Sample No.	<b>TW3</b>	$p'_c$	<b>66.07</b> kPa	$C_c$	<b>0.409</b>
Sample Depth	<b>2.59</b> m	OC Ratio	<b>2.3</b>	$W_o$	<b>36.2</b> %
Sample Elev.	<b>77.62</b> m	Void Ratio	<b>0.995</b>	Unit Wt.	<b>18.4</b> kN/m <sup>3</sup>

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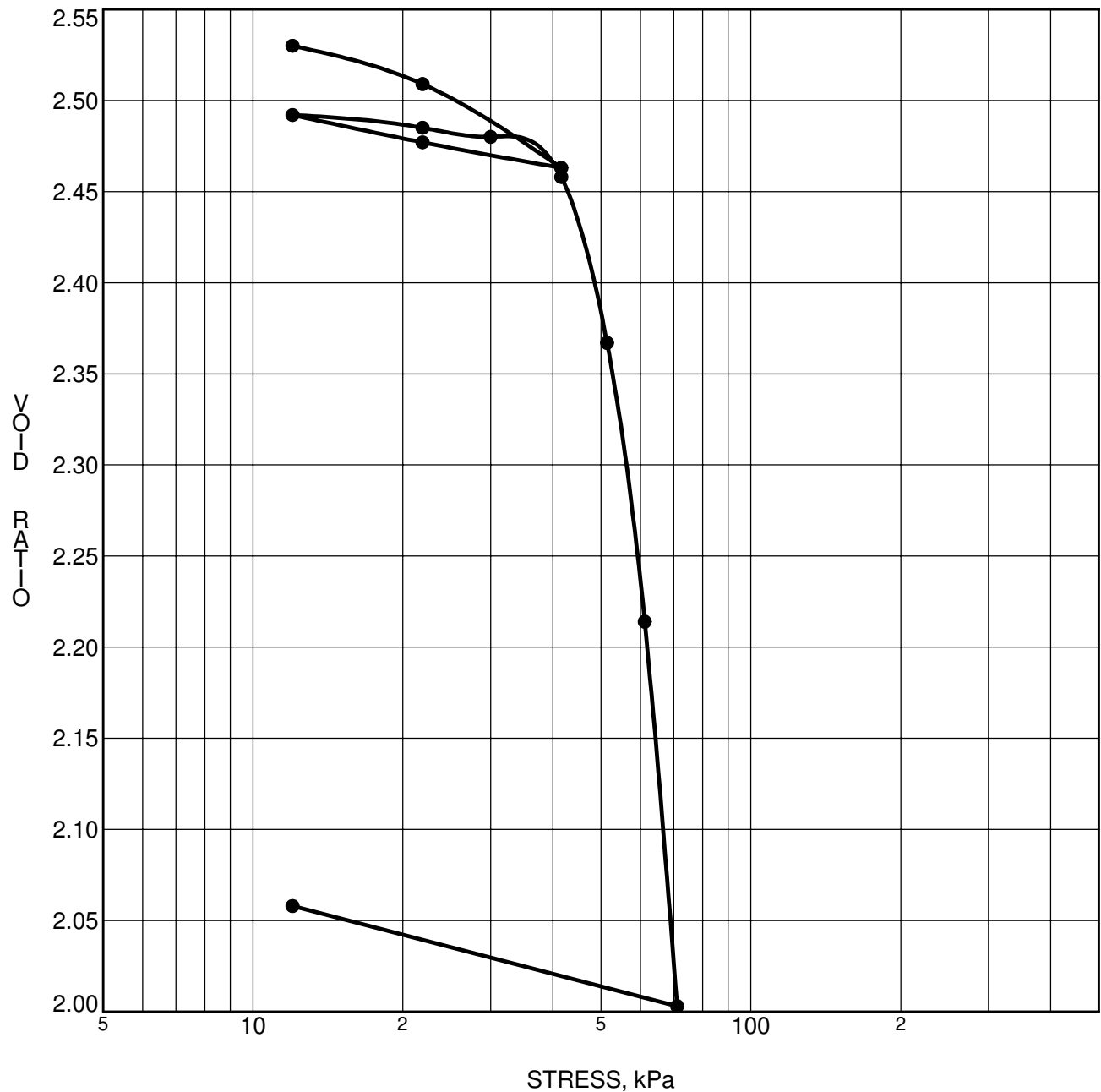
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH59A-22</b>	$p'_o$	<b>34.92</b> kPa	$C_{cr}$	<b>0.043</b>
Sample No.	<b>TW3</b>	$p'_c$	<b>63.1</b> kPa	$C_c$	<b>0.856</b>
Sample Depth	<b>2.59</b> m	OC Ratio	<b>1.8</b>	$W_o$	<b>63.7</b> %
Sample Elev.	<b>76.72</b> m	Void Ratio	<b>1.753</b>	Unit Wt.	<b>16.1</b> kN/m <sup>3</sup>

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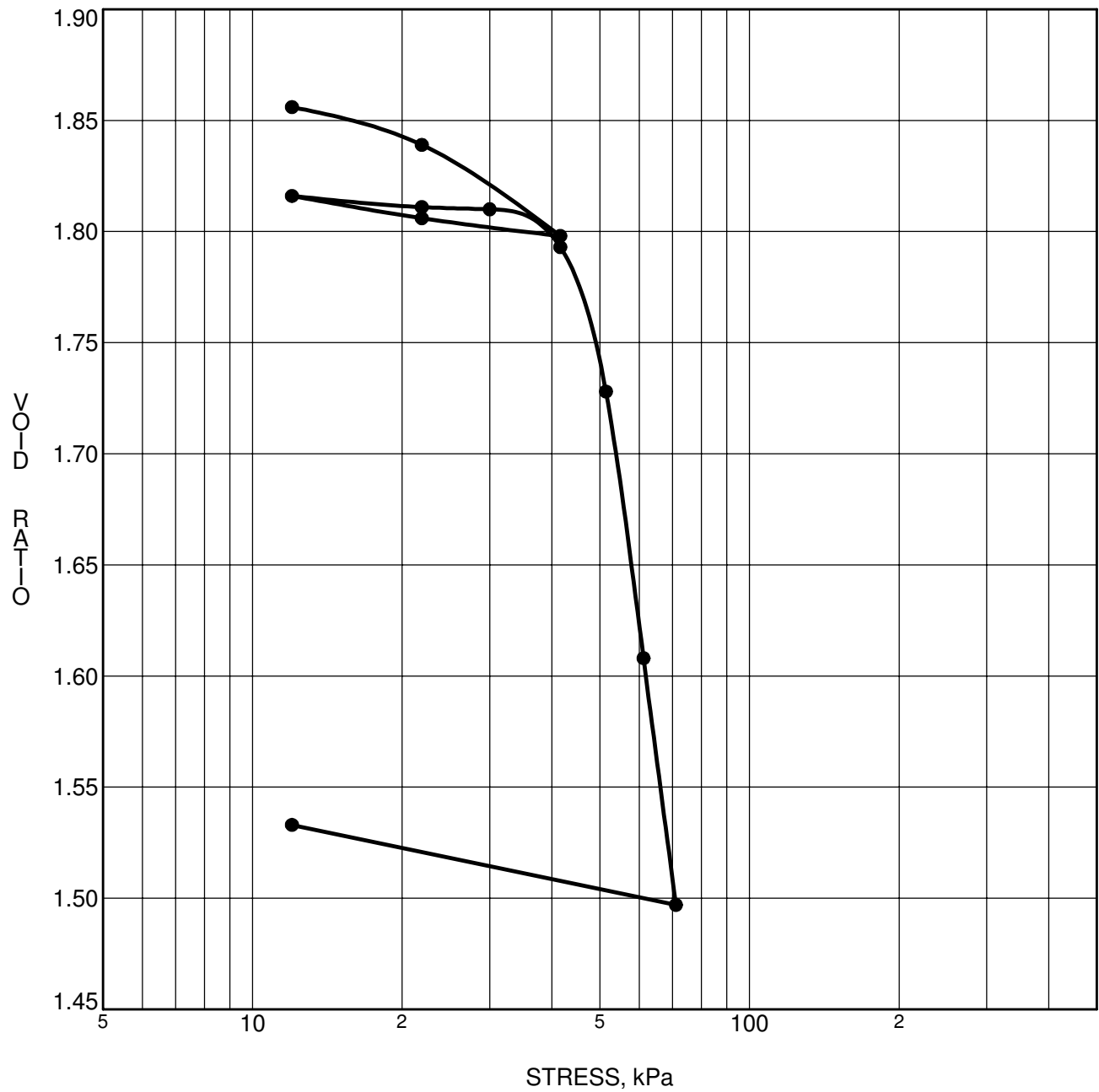
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH61-22</b>	$p'_o$	<b>37.69</b> kPa	$C_{cr}$	<b>0.060</b>
Sample No.	<b>TW6</b>	$p'_c$	<b>54.45</b> kPa	$C_c$	<b>4.771</b>
Sample Depth	<b>4.12</b> m	OC Ratio	<b>1.4</b>	$W_o$	<b>92.9</b> %
Sample Elev.	<b>75.09</b> m	Void Ratio	<b>2.554</b>	Unit Wt.	<b>14.6</b> kN/m <sup>3</sup>

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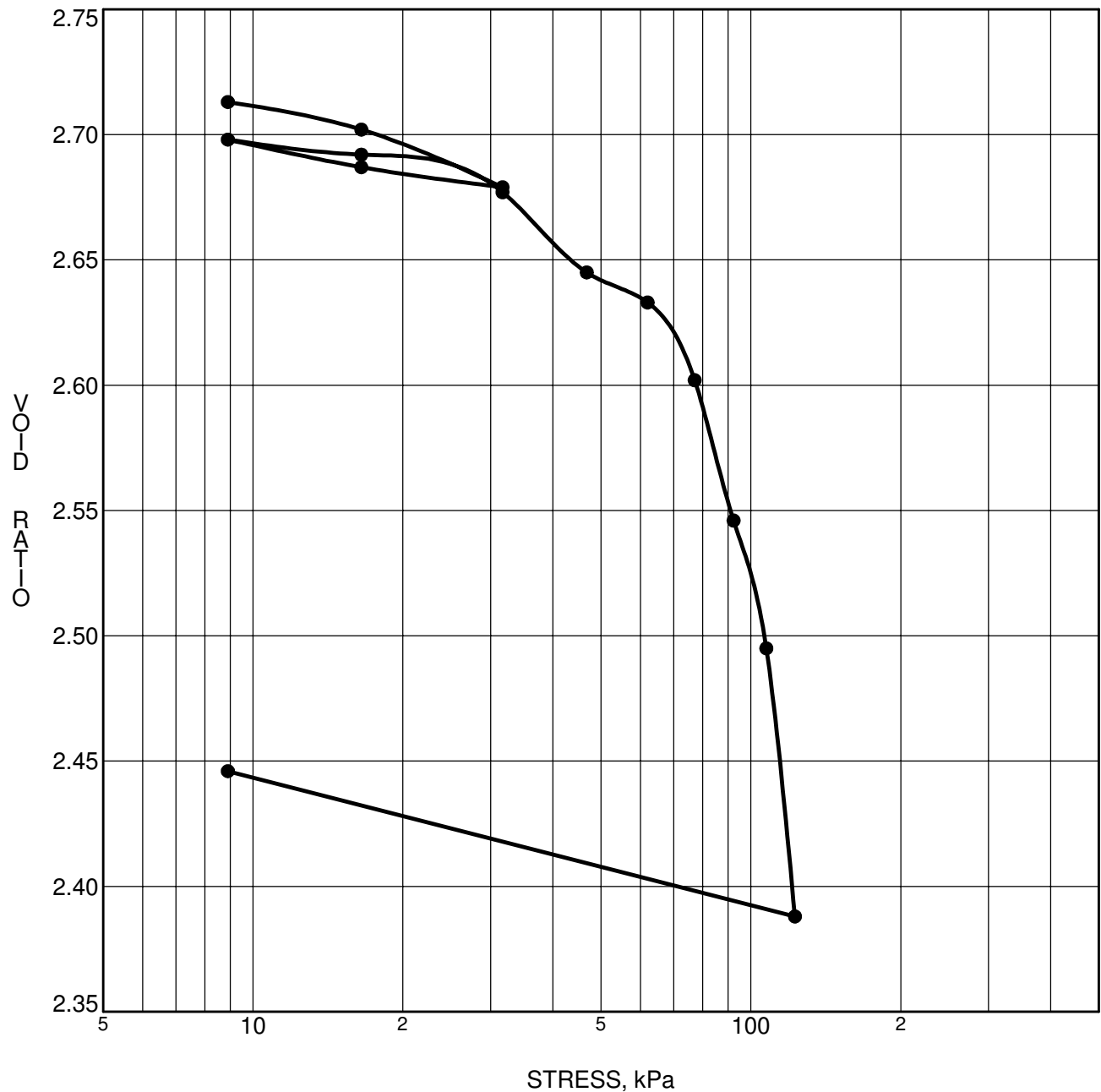
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH62-22</b>	$p'_o$	<b>33.6 kPa</b>	$C_{cr}$	<b>0.040</b>
Sample No.	<b>TW5</b>	$p'_c$	<b>48.6 kPa</b>	$C_c$	<b>1.630</b>
Sample Depth	<b>3.45 m</b>	OC Ratio	<b>1.4</b>	$W_o$	<b>68.3 %</b>
Sample Elev.	<b>75.53 m</b>	Void Ratio	<b>1.877</b>	Unit Wt.	<b>15.8 kN/m<sup>3</sup></b>

CLIENT Taggart Investments  
 PROJECT Geotechnical Investigation - Proposed Mixed-Use  
 Community Development

FILE NO. PG5827  
 DATE 07/15/2022

**pater-song** Consulting Engineers  
 9 Auriga Drive, Ottawa, Ontario K2E 7T9

**CONSOLIDATION  
 TEST**



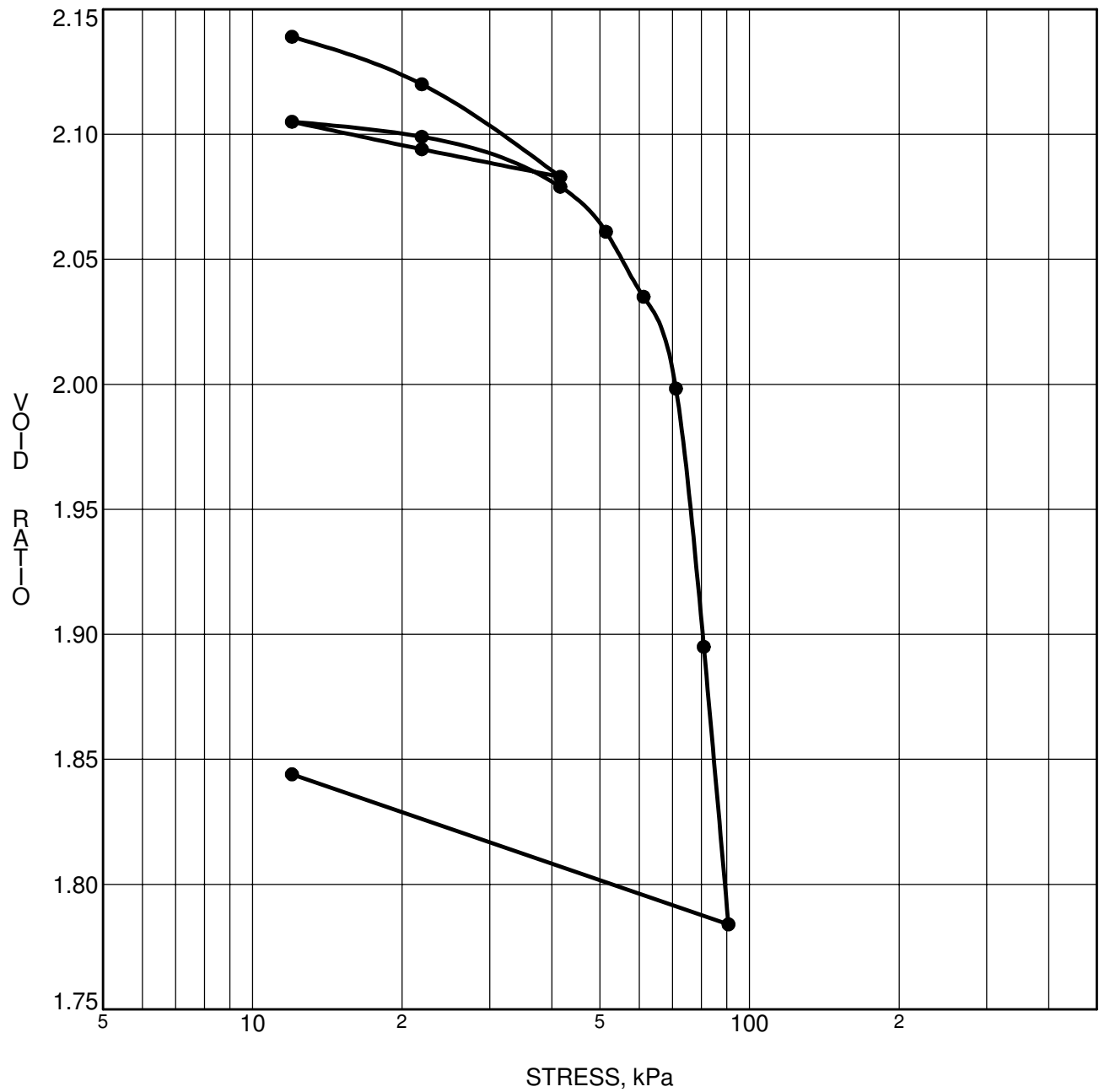
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH64-22</b>	$p'_o$	<b>37.57</b> kPa	$C_{cr}$	<b>0.038</b>
Sample No.	<b>TW4</b>	$p'_c$	<b>77.625</b> kPa	$C_c$	<b>1.282</b>
Sample Depth	<b>2.77</b> m	OC Ratio	<b>2.1</b>	$W_o$	<b>98.8</b> %
Sample Elev.	<b>76.06</b> m	Void Ratio	<b>2.718</b>	Unit Wt.	<b>14.4</b> kN/m <sup>3</sup>

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 PROJECT Geotechnical Investigation - Proposed Mixed-Use  
 Community Development

FILE NO. PG5827  
 DATE 07/07/2022

**paterosongroup** Consulting Engineers  
 9 Auriga Drive, Ottawa, Ontario K2E 7T9

**CONSOLIDATION  
 TEST**



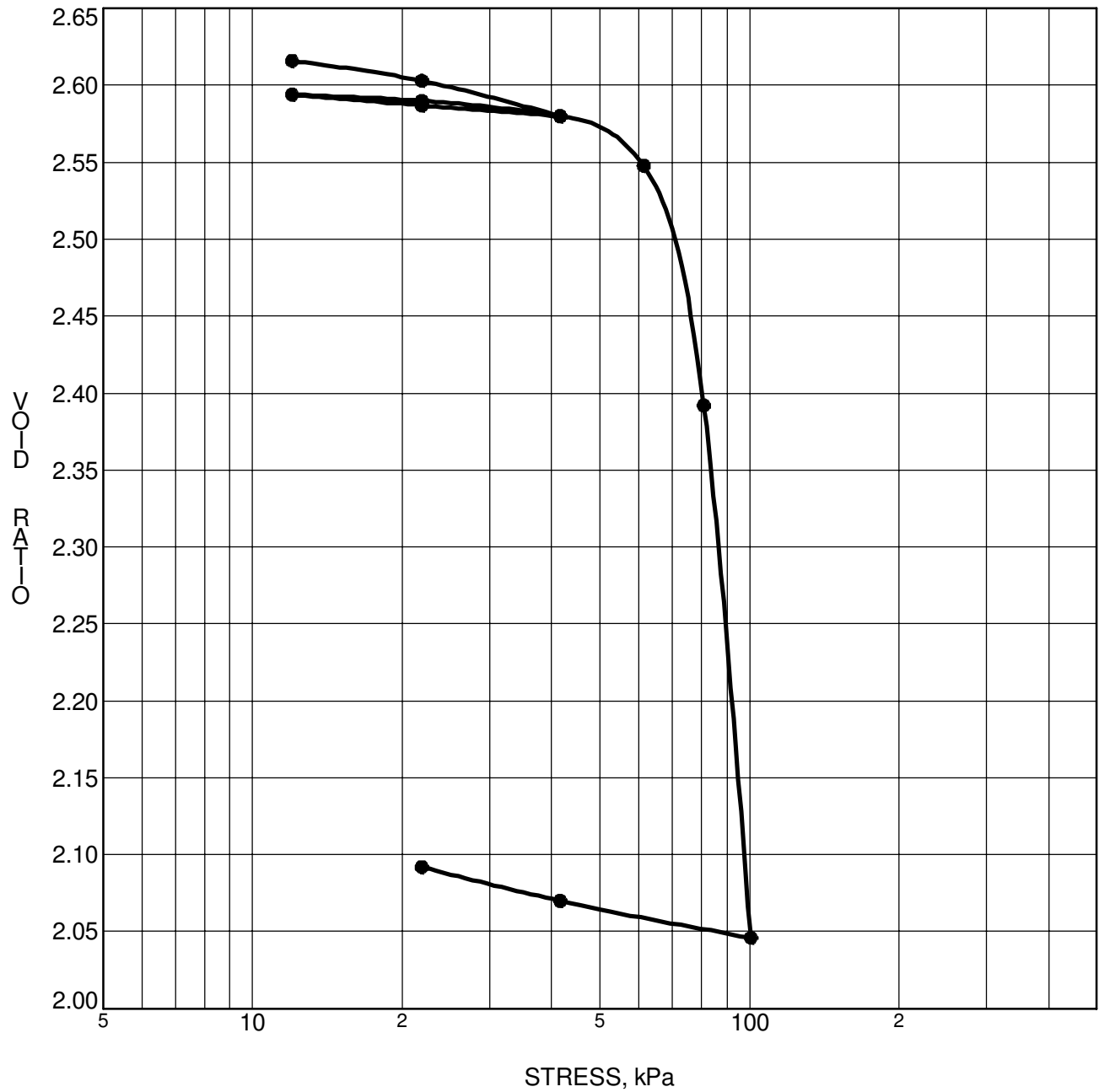
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH64-22</b>	$p'_o$	<b>46.53</b> kPa	$C_{cr}$	<b>0.049</b>
Sample No.	<b>TW6</b>	$p'_c$	<b>69.18</b> kPa	$C_c$	<b>2.344</b>
Sample Depth	<b>4.22</b> m	OC Ratio	<b>1.5</b>	$W_o$	<b>78.6</b> %
Sample Elev.	<b>74.61</b> m	Void Ratio	<b>2.16</b>	Unit Wt.	<b>15.2</b> kN/m <sup>3</sup>

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 Community Development

FILE NO. PG5827  
 DATE 07/08/2022

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**CONSOLIDATION  
 TEST**



CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH 1</b>	$p'_o$	<b>44 kPa</b>	$C_{cr}$	<b>0.027</b>
Sample No.	<b>TW 4</b>	$p'_c$	<b>74 kPa</b>	$C_c$	<b>3.606</b>
Sample Depth	<b>4.36 m</b>	OC Ratio	<b>1.7</b>	$W_o$	<b>95.7 %</b>
Sample Elev.	<b>74.42 m</b>	Void Ratio	<b>2.632</b>	Unit Wt.	<b>14.9 kN/m<sup>3</sup></b>

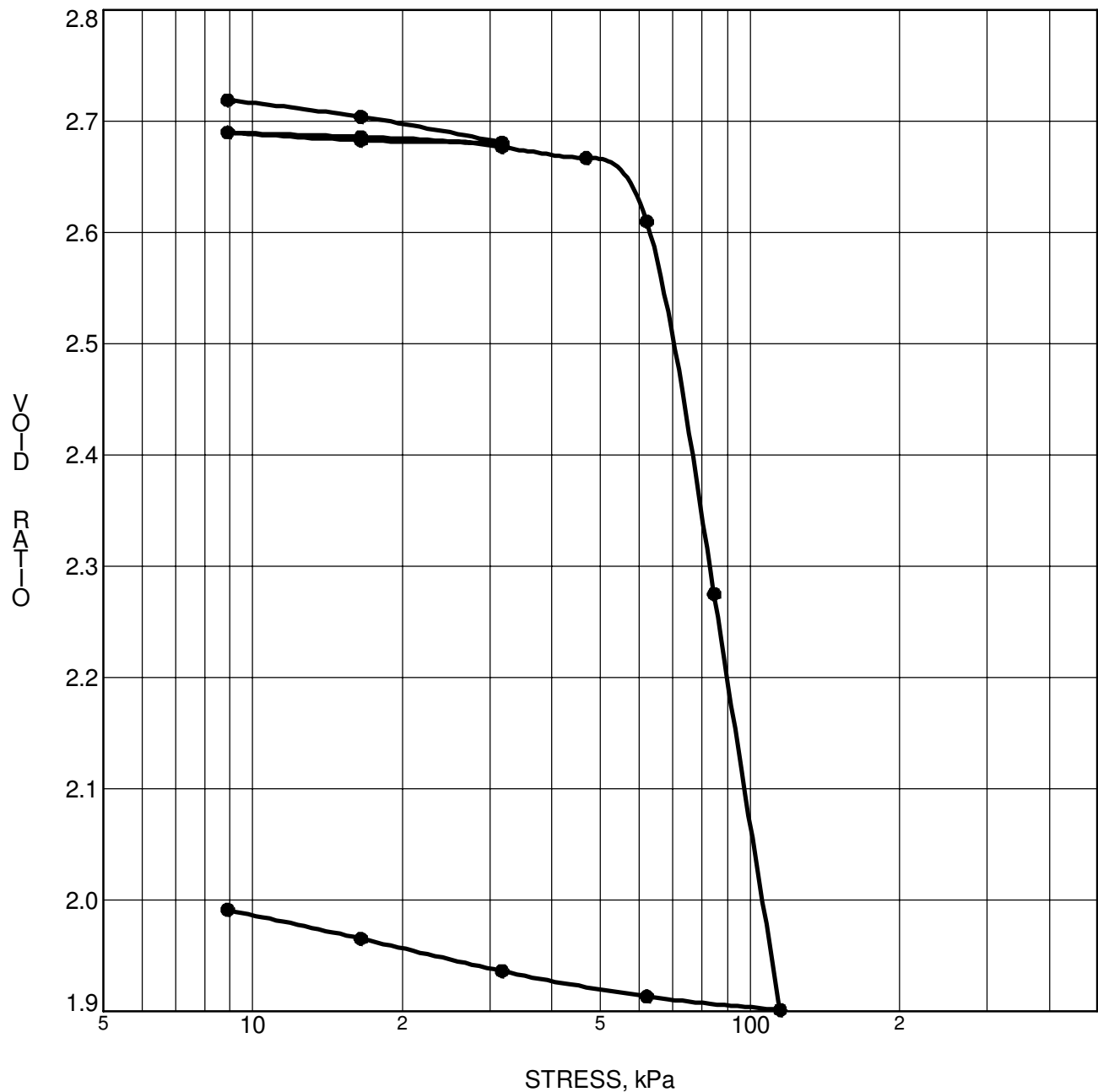
CLIENT Fairlawn Sod c/o Mr. Ted Phillips  
 PROJECT Geotechnical Investigation - 8th Line Road and Anderson Road

FILE NO. PG2466  
 DATE 10/04/2011

**paterongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**CONSOLIDATION TEST**





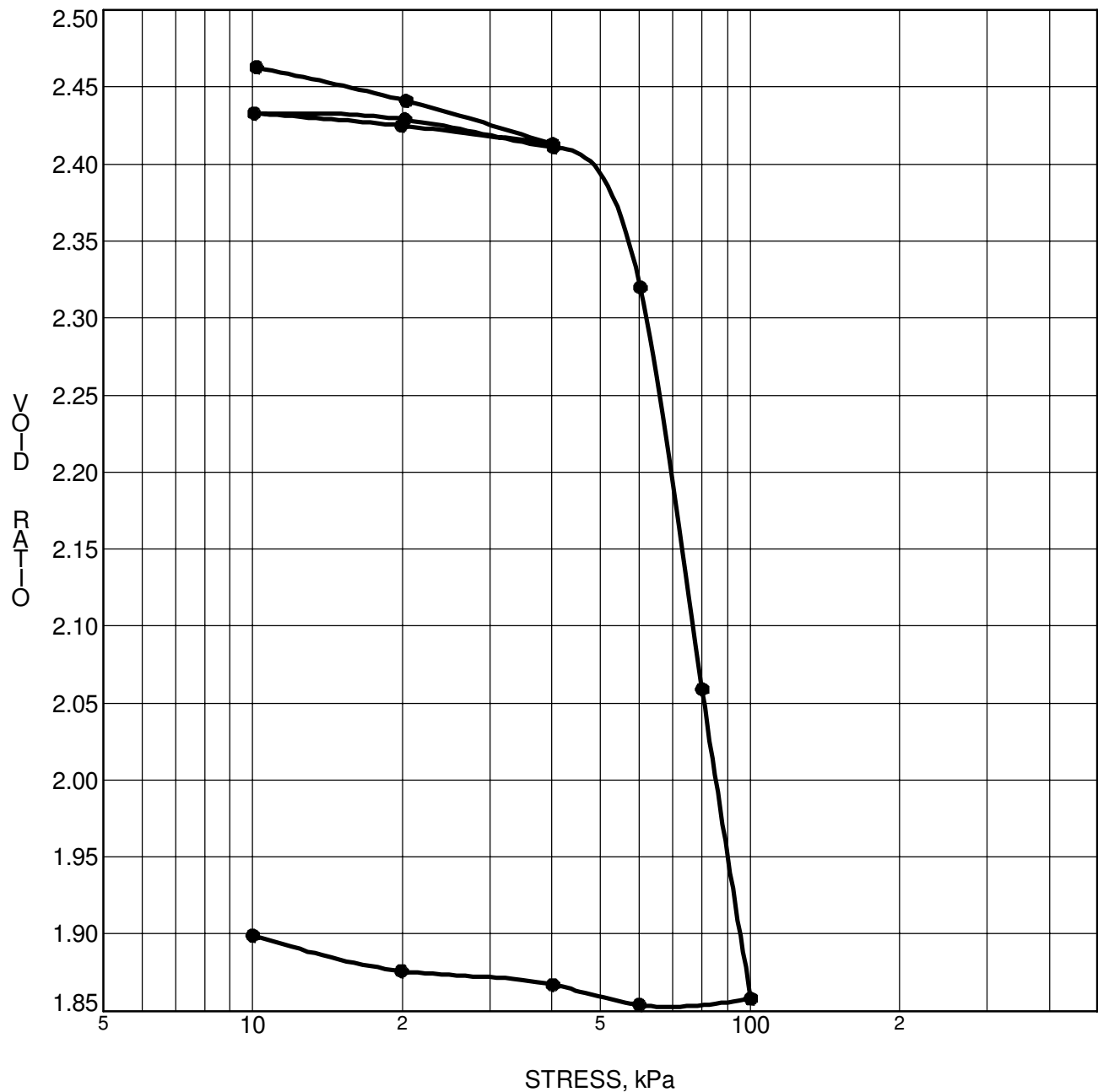
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH 2</b>	$p'_o$	<b>33 kPa</b>	$C_{cr}$	<b>0.024</b>
Sample No.	<b>TW 3</b>	$p'_c$	<b>64 kPa</b>	$C_c$	<b>2.803</b>
Sample Depth	<b>3.58 m</b>	OC Ratio	<b>1.9</b>	$W_o$	<b>99.4 %</b>
Sample Elev.	<b>76.04 m</b>	Void Ratio	<b>2.735</b>	Unit Wt.	<b>14.7 kN/m<sup>3</sup></b>

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 PROJECT Geotechnical Investigation - 8th Line Road and Anderson Road

FILE NO. PG2466  
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**paterongroup** Consulting Engineers  
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**CONSOLIDATION TEST**



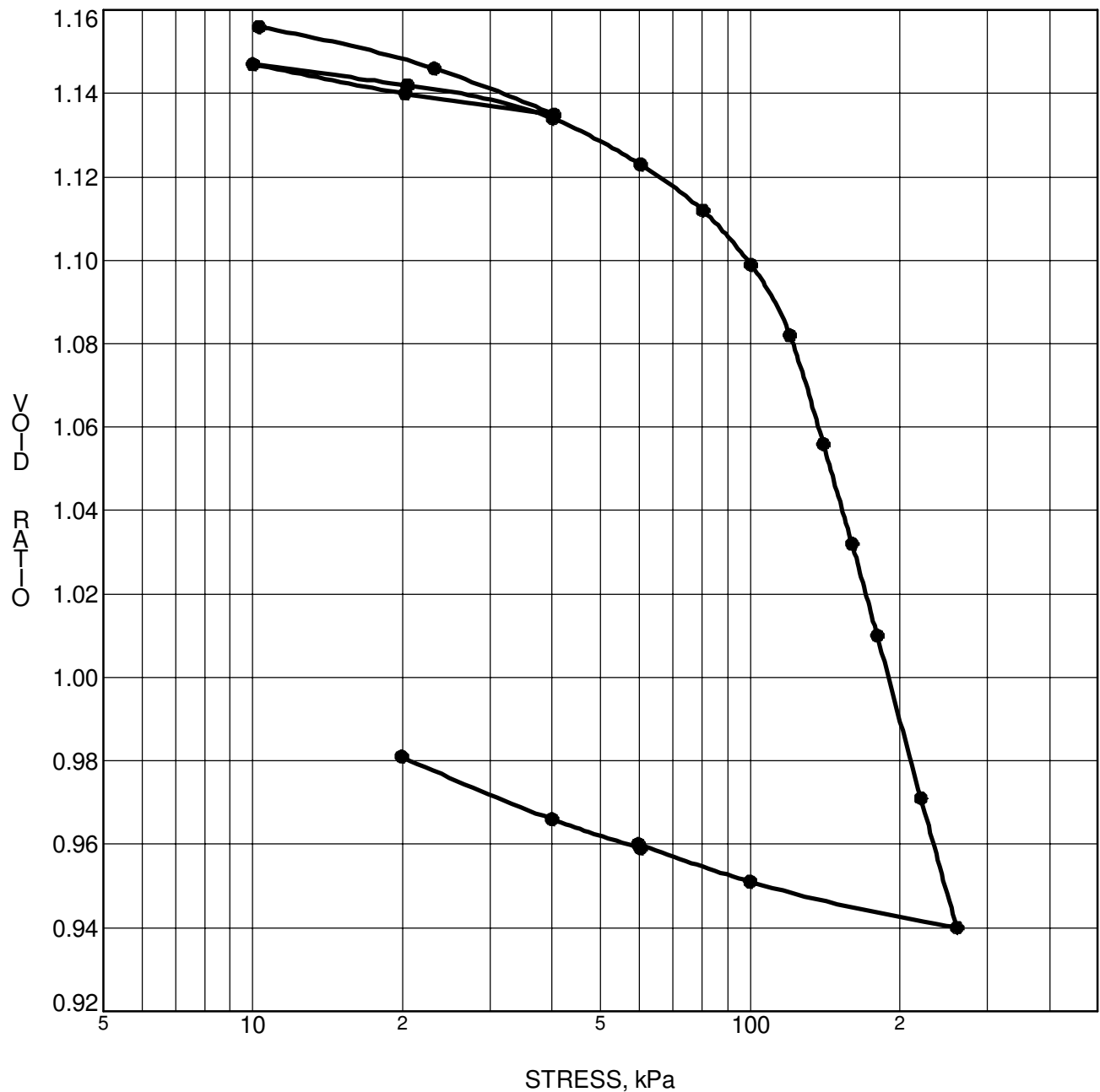
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH 3</b>	$p'_o$	<b>53 kPa</b>	$C_{cr}$	<b>0.019</b>
Sample No.	<b>TW 3</b>	$p'_c$	<b>66 kPa</b>	$C_c$	<b>3.537</b>
Sample Depth	<b>4.27 m</b>	OC Ratio	<b>1.2</b>	$W_o$	<b>90.6 %</b>
Sample Elev.	<b>74.47 m</b>	Void Ratio	<b>2.49</b>	Unit Wt.	<b>15.8 kN/m<sup>3</sup></b>

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FILE NO. PG2466  
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**CONSOLIDATION TEST**



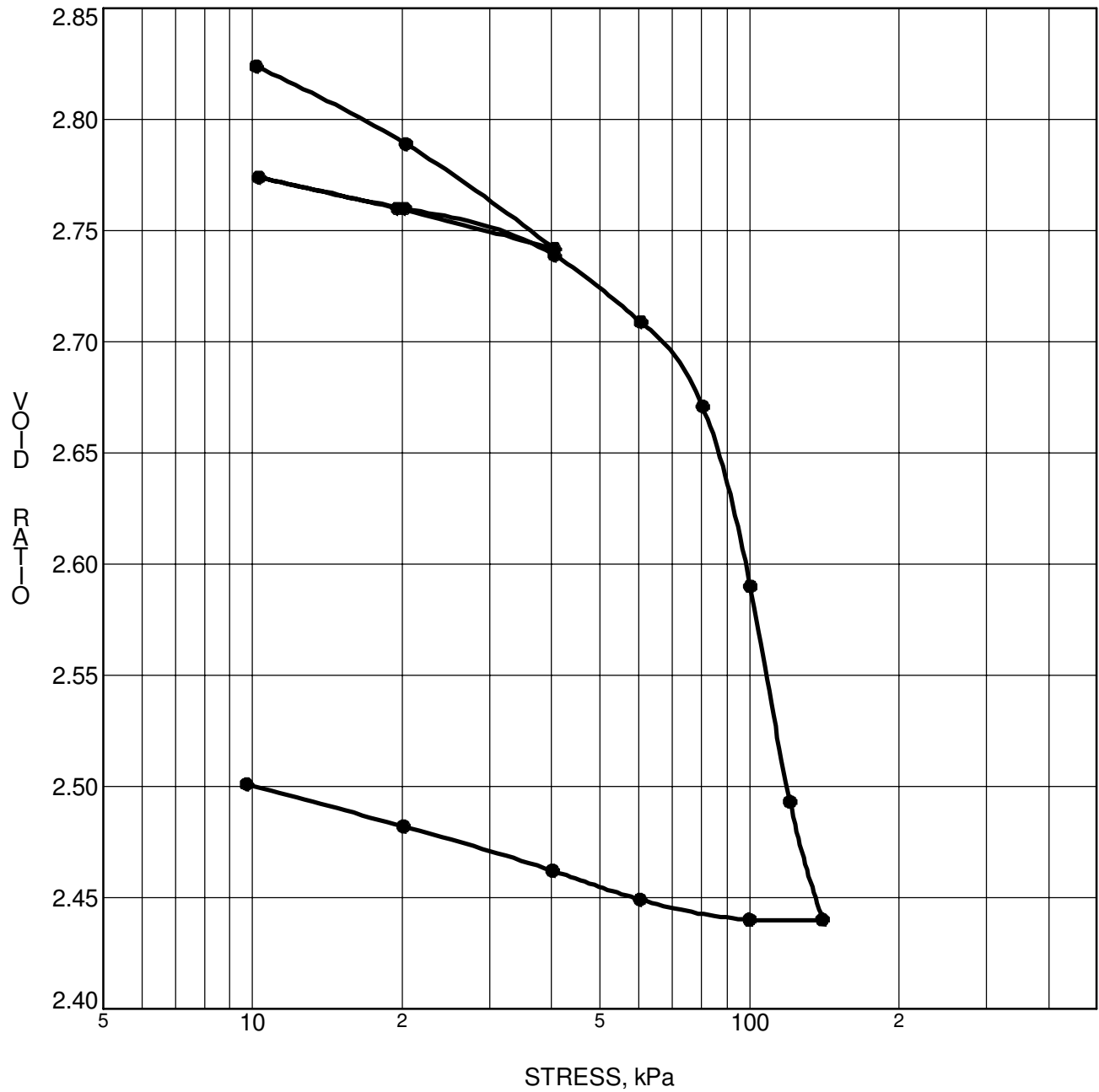
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH 3</b>	$p'_o$	<b>63 kPa</b>	$C_{cr}$	<b>0.020</b>
Sample No.	<b>TW 4</b>	$p'_c$	<b>116 kPa</b>	$C_c$	<b>0.434</b>
Sample Depth	<b>5.87 m</b>	OC Ratio	<b>1.8</b>	$W_o$	<b>42.4 %</b>
Sample Elev.	<b>72.87 m</b>	Void Ratio	<b>1.167</b>	Unit Wt.	<b>18.2 kN/m<sup>3</sup></b>

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FILE NO. PG2466  
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**CONSOLIDATION TEST**



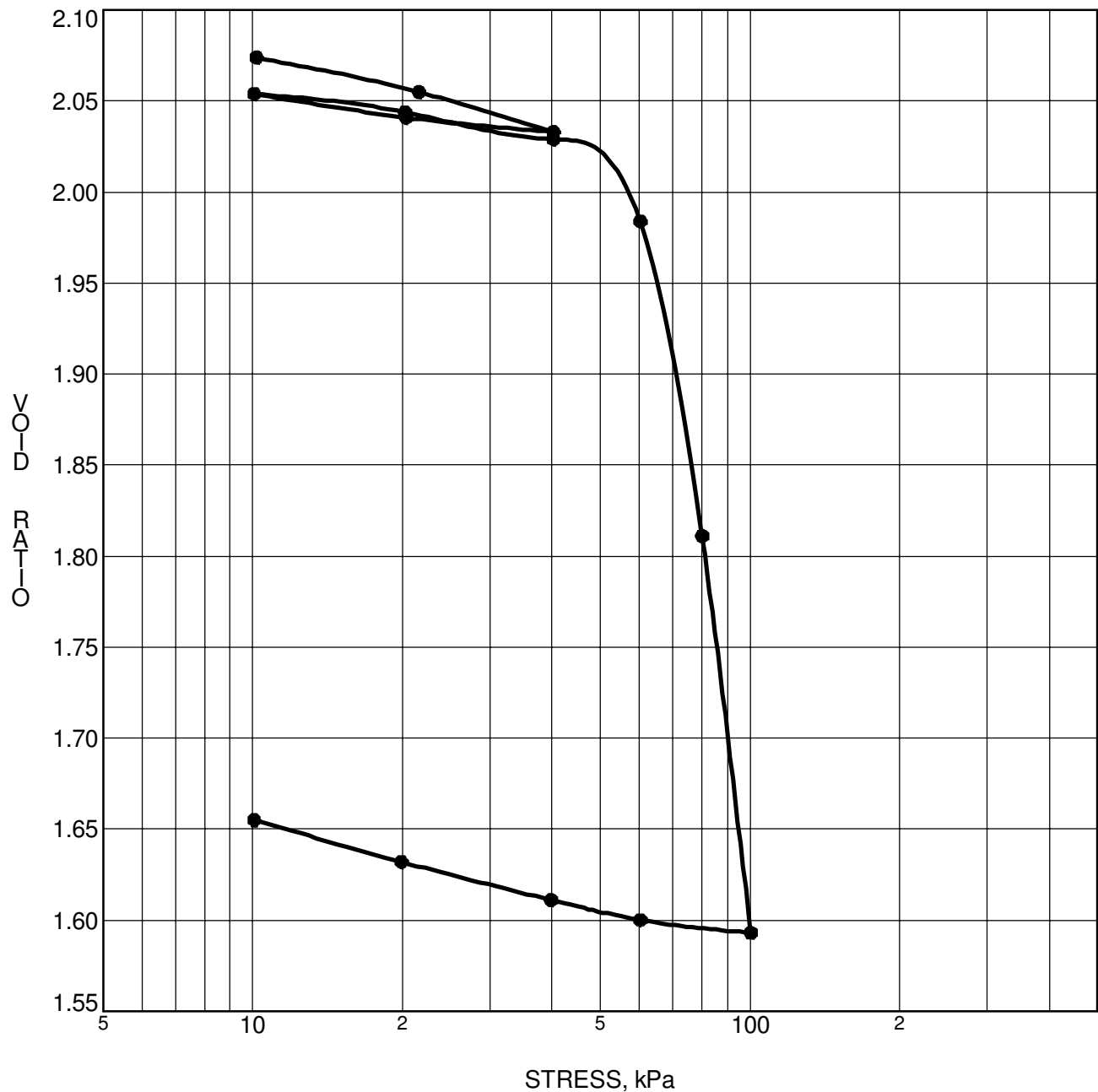
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH 4</b>	$p'_o$	<b>38 kPa</b>	$C_{cr}$	<b>0.056</b>
Sample No.	<b>TW 5</b>	$p'_c$	<b>86 kPa</b>	$C_c$	<b>1.228</b>
Sample Depth	<b>4.27 m</b>	OC Ratio	<b>2.3</b>	$W_o$	<b>103.8%</b>
Sample Elev.	<b>75.70 m</b>	Void Ratio	<b>2.856</b>	Unit Wt.	<b>14.7 kN/m<sup>3</sup></b>

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FILE NO. PG2466  
 DATE 10/05/11

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**CONSOLIDATION TEST**



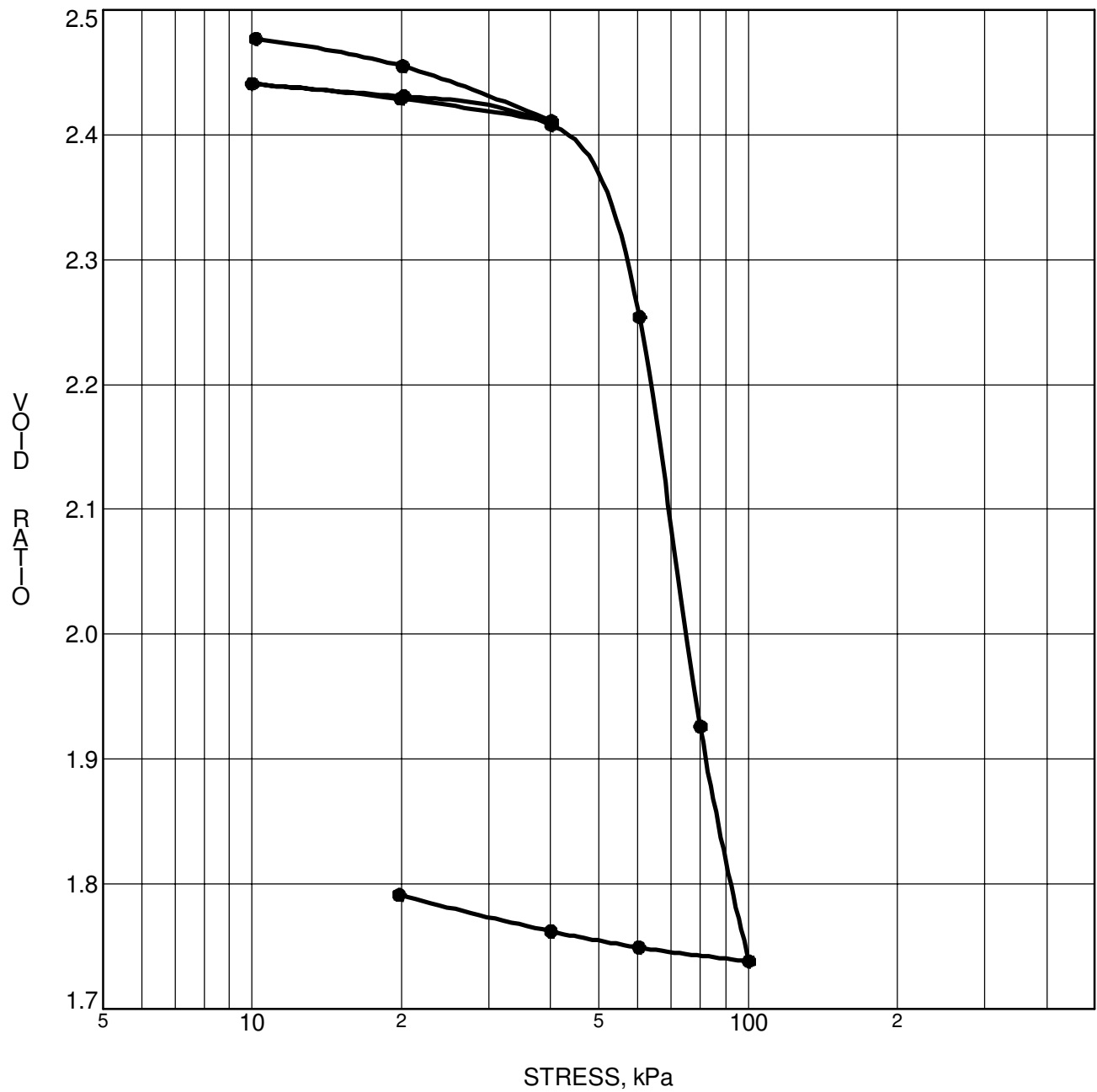
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH 5</b>	$p'_o$	<b>31 kPa</b>	$C_{cr}$	<b>0.039</b>
Sample No.	<b>TW 3</b>	$p'_c$	<b>67 kPa</b>	$C_c$	<b>2.218</b>
Sample Depth	<b>3.20 m</b>	OC Ratio	<b>2.2</b>	$W_o$	<b>76.1 %</b>
Sample Elev.	<b>77.19 m</b>	Void Ratio	<b>2.093</b>	Unit Wt.	<b>15.2 kN/m<sup>3</sup></b>

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FILE NO. PG2466  
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**CONSOLIDATION TEST**



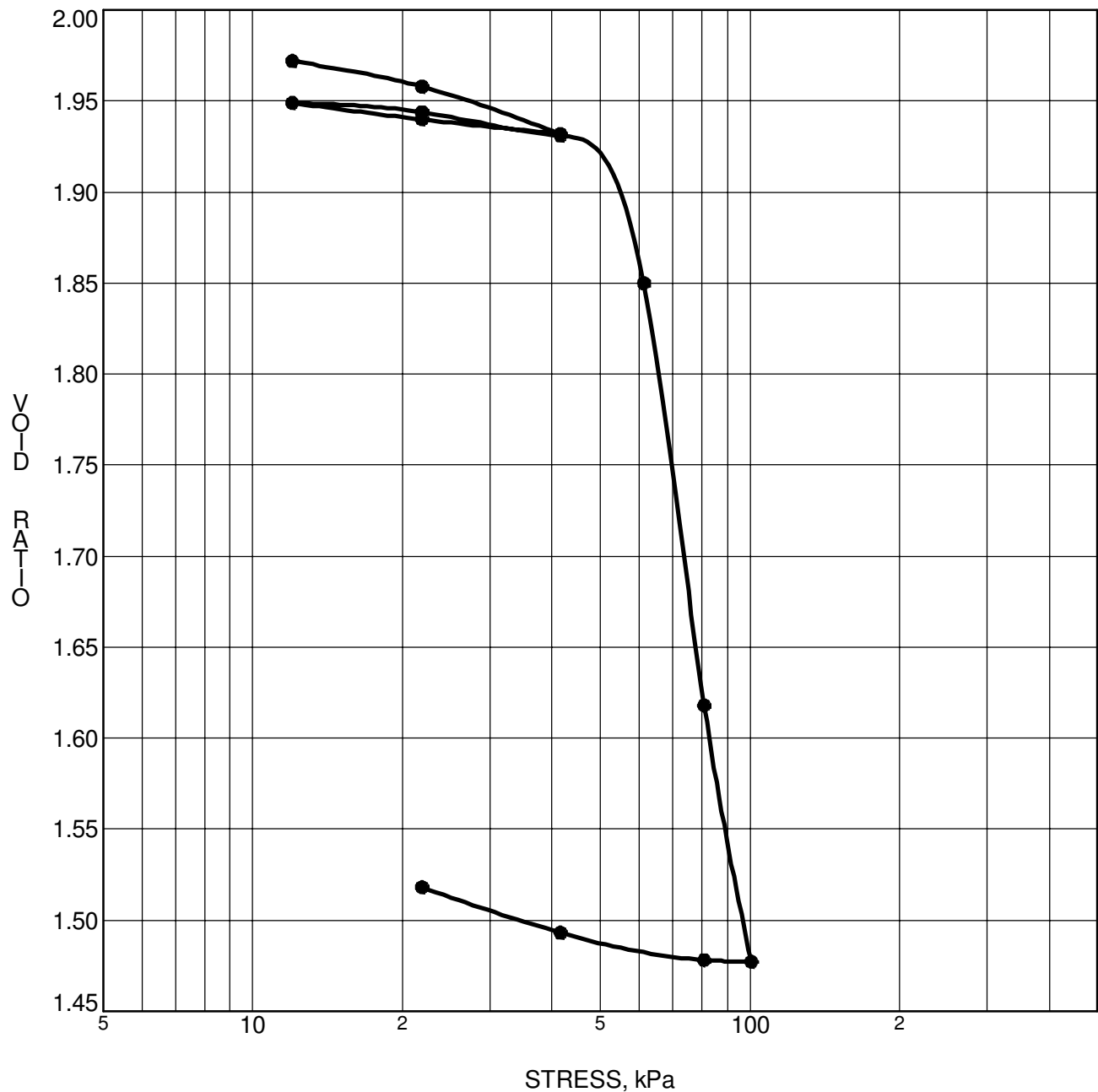
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH 6</b>	$p'_o$	<b>34 kPa</b>	$C_{cr}$	<b>0.050</b>
Sample No.	<b>TW 4</b>	$p'_c$	<b>55 kPa</b>	$C_c$	<b>2.619</b>
Sample Depth	<b>3.61 m</b>	OC Ratio	<b>1.6</b>	$W_o$	<b>91.0 %</b>
Sample Elev.	<b>76.15 m</b>	Void Ratio	<b>2.503</b>	Unit Wt.	<b>15.3 kN/m<sup>3</sup></b>

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 PROJECT Geotechnical Investigation - 8th Line Road and Anderson Road

FILE NO. PG2466  
 DATE 10/21/2011

**paterongroup** Consulting Engineers  
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**CONSOLIDATION TEST**



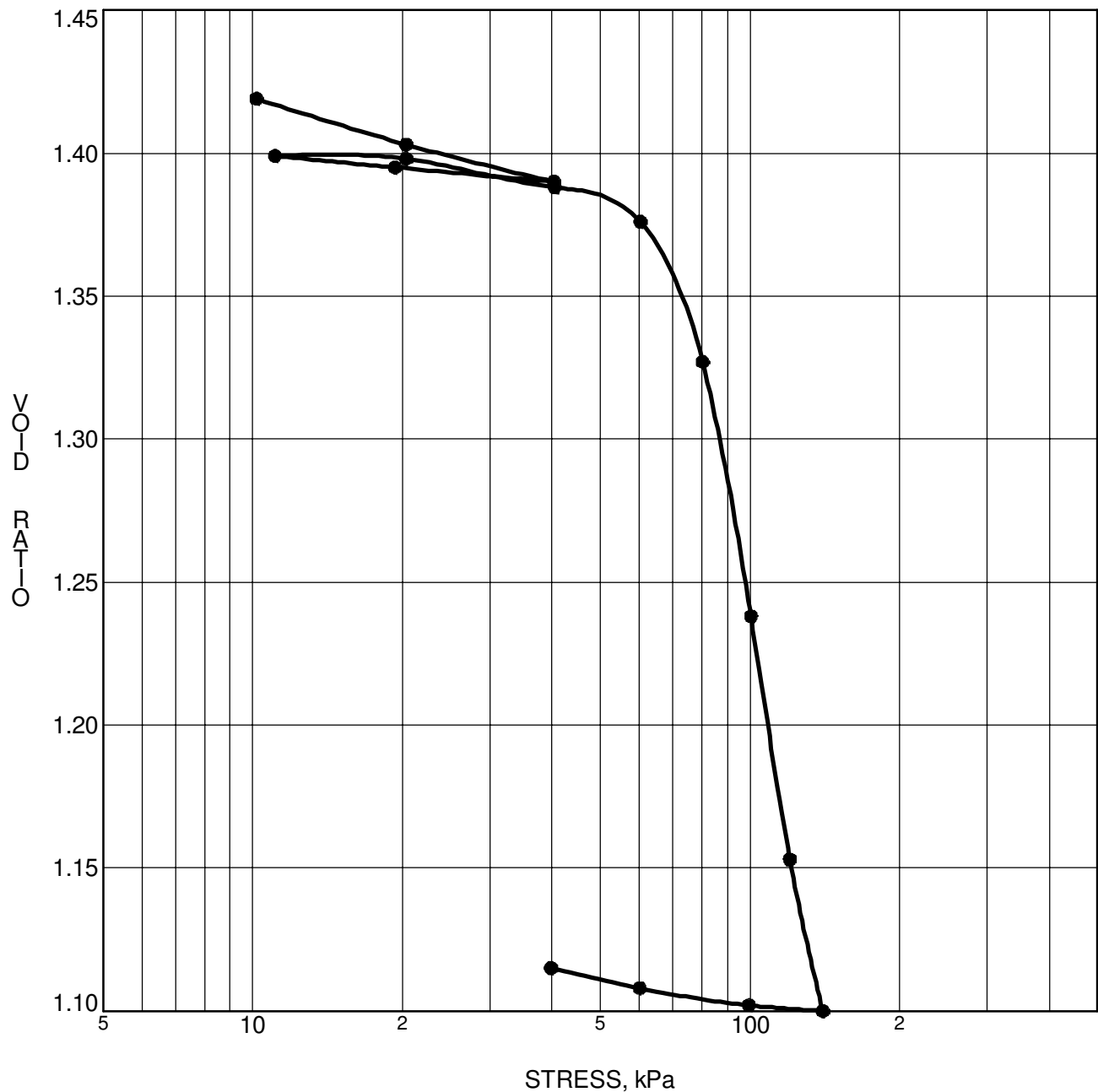
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH 6A</b>	$p'_o$	<b>24 kPa</b>	$C_{cr}$	<b>0.032</b>
Sample No.	<b>TW 1</b>	$p'_c$	<b>62 kPa</b>	$C_c$	<b>2.559</b>
Sample Depth	<b>2.04 m</b>	OC Ratio	<b>2.6</b>	$W_o$	<b>72.3 %</b>
Sample Elev.	<b>77.72 m</b>	Void Ratio	<b>1.989</b>	Unit Wt.	<b>15.7 kN/m<sup>3</sup></b>

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FILE NO. PG2466  
 DATE 11/06/11

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**CONSOLIDATION TEST**



CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH 7</b>	$p'_o$	<b>29 kPa</b>	$C_{cr}$	<b>0.019</b>
Sample No.	<b>TW 2</b>	$p'_c$	<b>78 kPa</b>	$C_c$	<b>1.127</b>
Sample Depth	<b>2.82 m</b>	OC Ratio	<b>2.7</b>	$W_o$	<b>52.1 %</b>
Sample Elev.	<b>77.28 m</b>	Void Ratio	<b>1.432</b>	Unit Wt.	<b>17.4 kN/m<sup>3</sup></b>

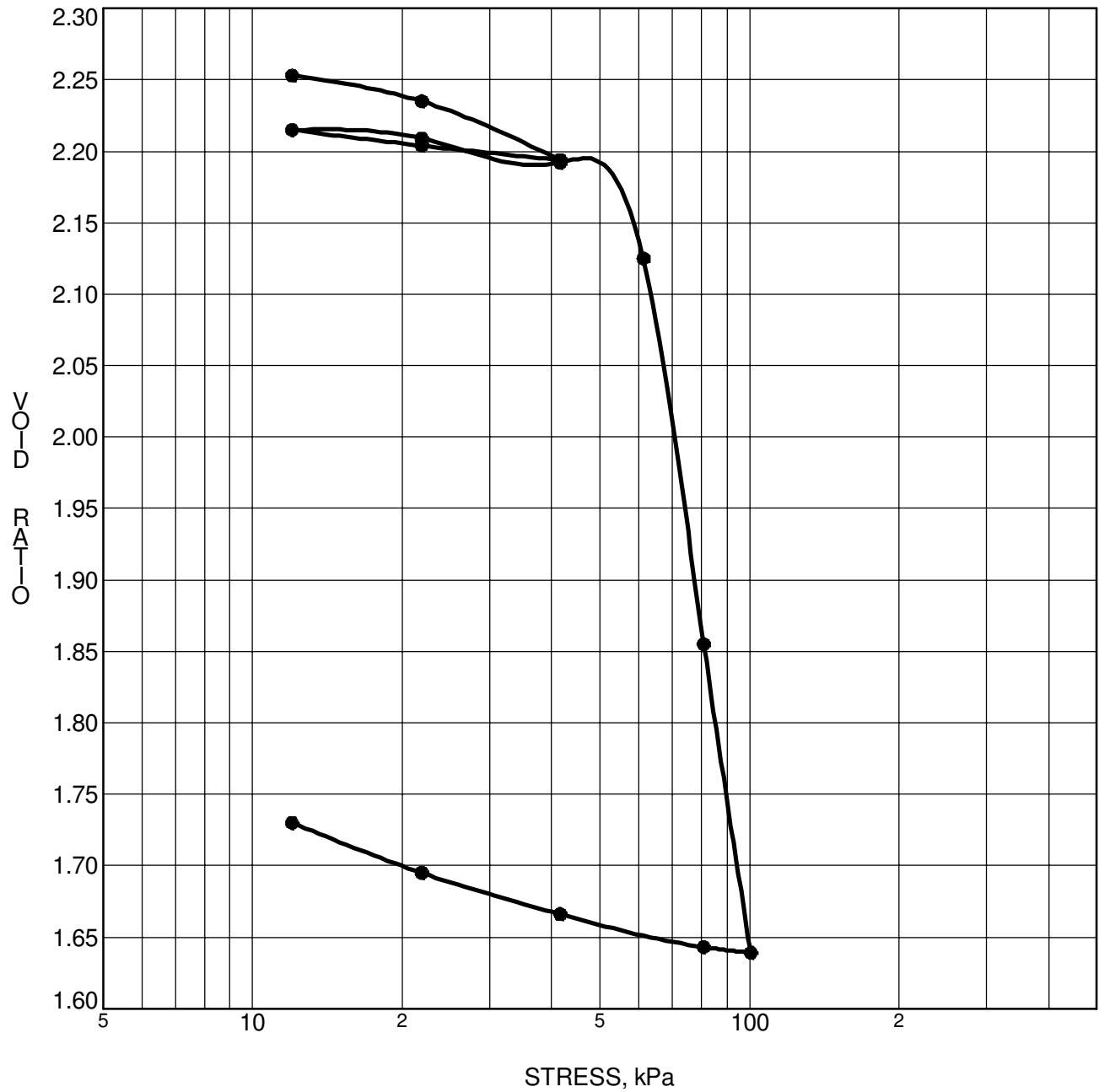
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 PROJECT Geotechnical Investigation - 8th Line Road and Anderson Road

FILE NO. PG2466  
 DATE 10/21/2011

**paterongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**CONSOLIDATION TEST**





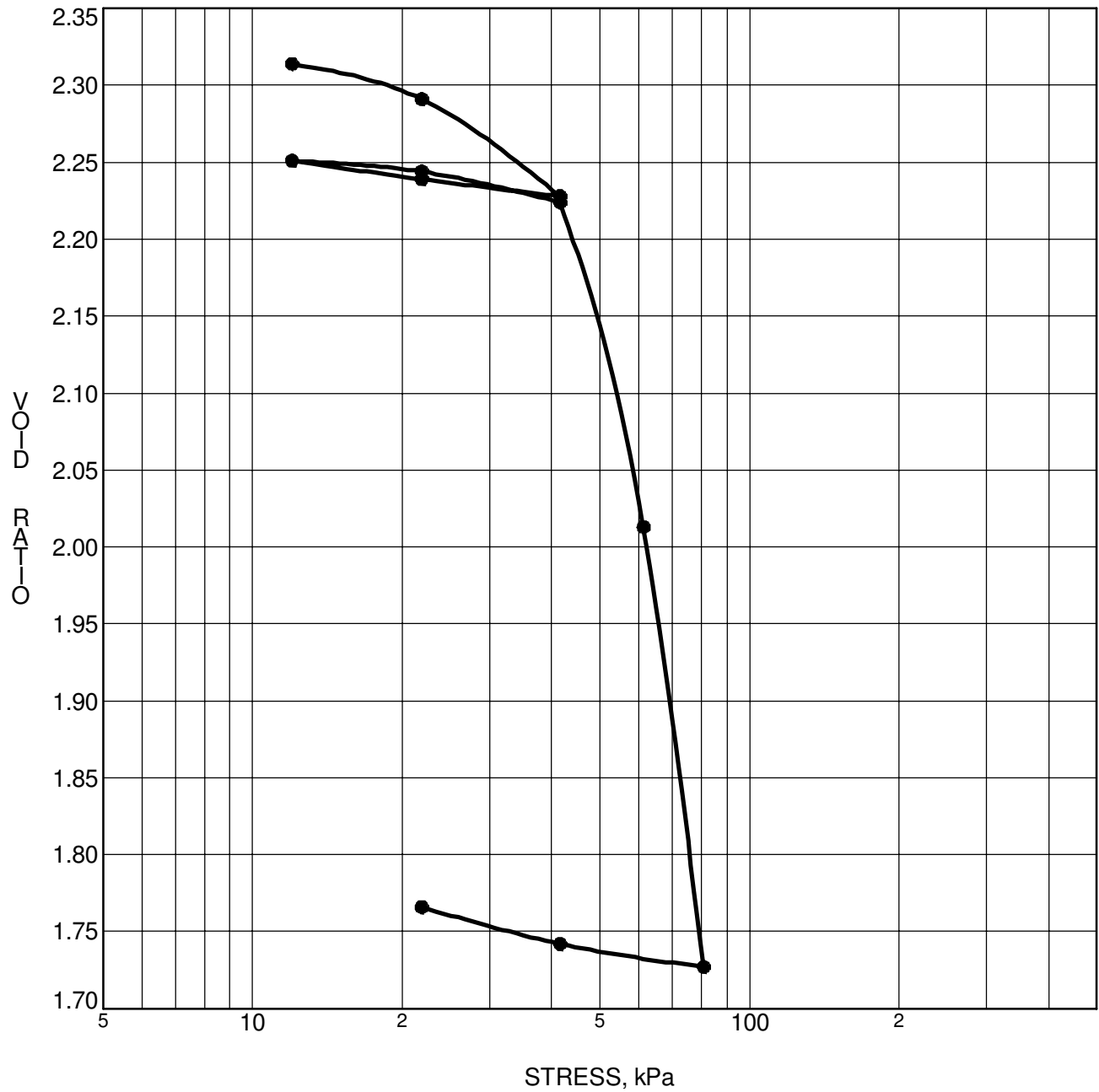
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH 8</b>	$p'_o$	<b>28 kPa</b>	$C_{cr}$	<b>0.040</b>
Sample No.	<b>TW 3</b>	$p'_c$	<b>60 kPa</b>	$C_c$	<b>2.391</b>
Sample Depth	<b>2.72 m</b>	OC Ratio	<b>2.1</b>	$W_o$	<b>83.0 %</b>
Sample Elev.	<b>77.29 m</b>	Void Ratio	<b>2.281</b>	Unit Wt.	<b>15.6 kN/m<sup>3</sup></b>

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 PROJECT Geotechnical Investigation - 8th Line Road and Anderson Road

FILE NO. PG2466  
 DATE 11/09/11

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**CONSOLIDATION TEST**



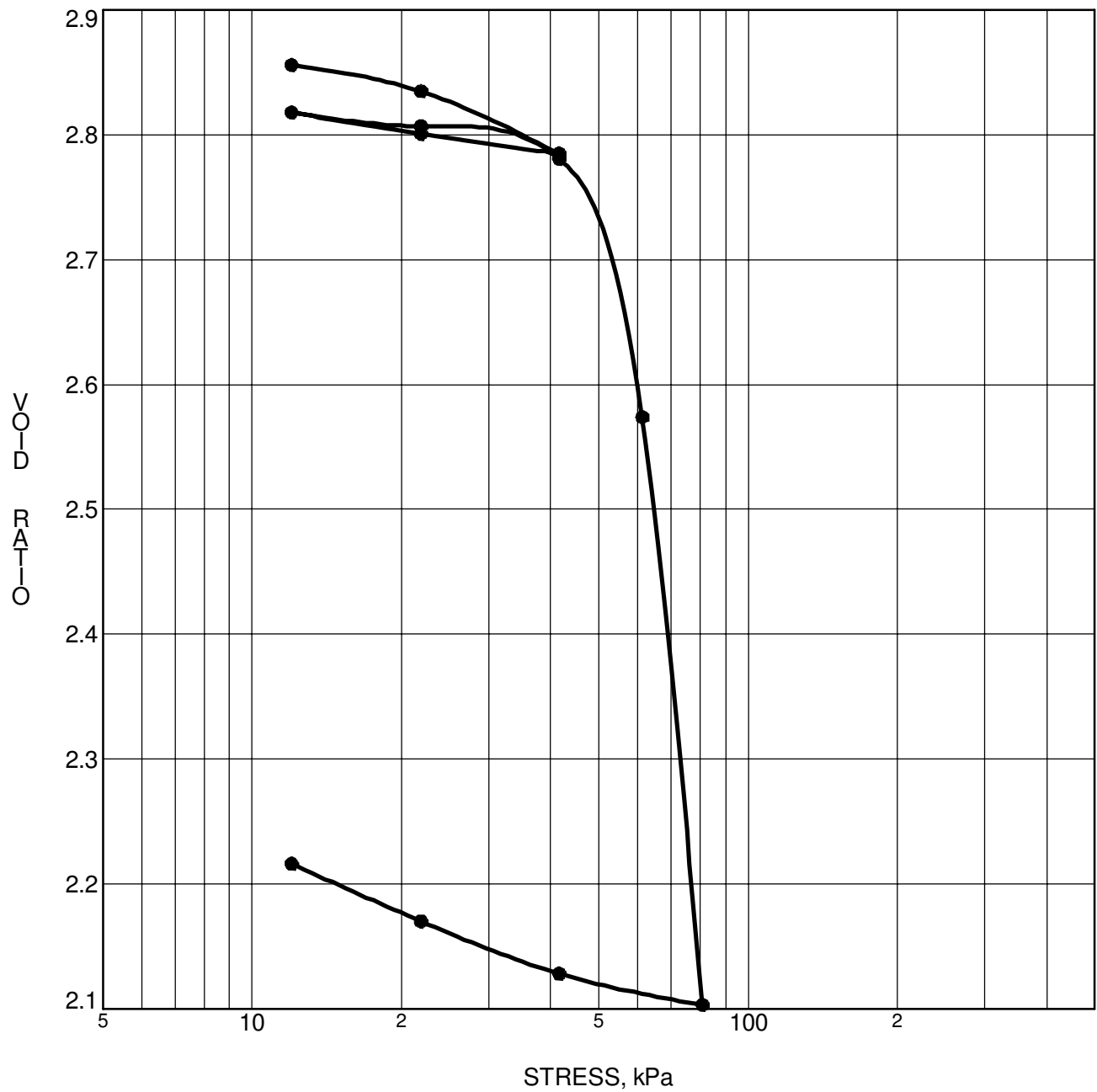
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH 8</b>	$p'_o$	<b>38 kPa</b>	$C_{cr}$	<b>0.046</b>
Sample No.	<b>TW 4</b>	$p'_c$	<b>51 kPa</b>	$C_c$	<b>2.310</b>
Sample Depth	<b>4.36 m</b>	OC Ratio	<b>1.3</b>	$W_o$	<b>85.3 %</b>
Sample Elev.	<b>75.65 m</b>	Void Ratio	<b>2.346</b>	Unit Wt.	<b>15.6 kN/m<sup>3</sup></b>

CLIENT Fairlawn Sod c/o Mr. Ted Phillips  
 PROJECT Geotechnical Investigation - 8th Line Road and Anderson Road

FILE NO. PG2466  
 DATE 10/17/2011

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**CONSOLIDATION TEST**



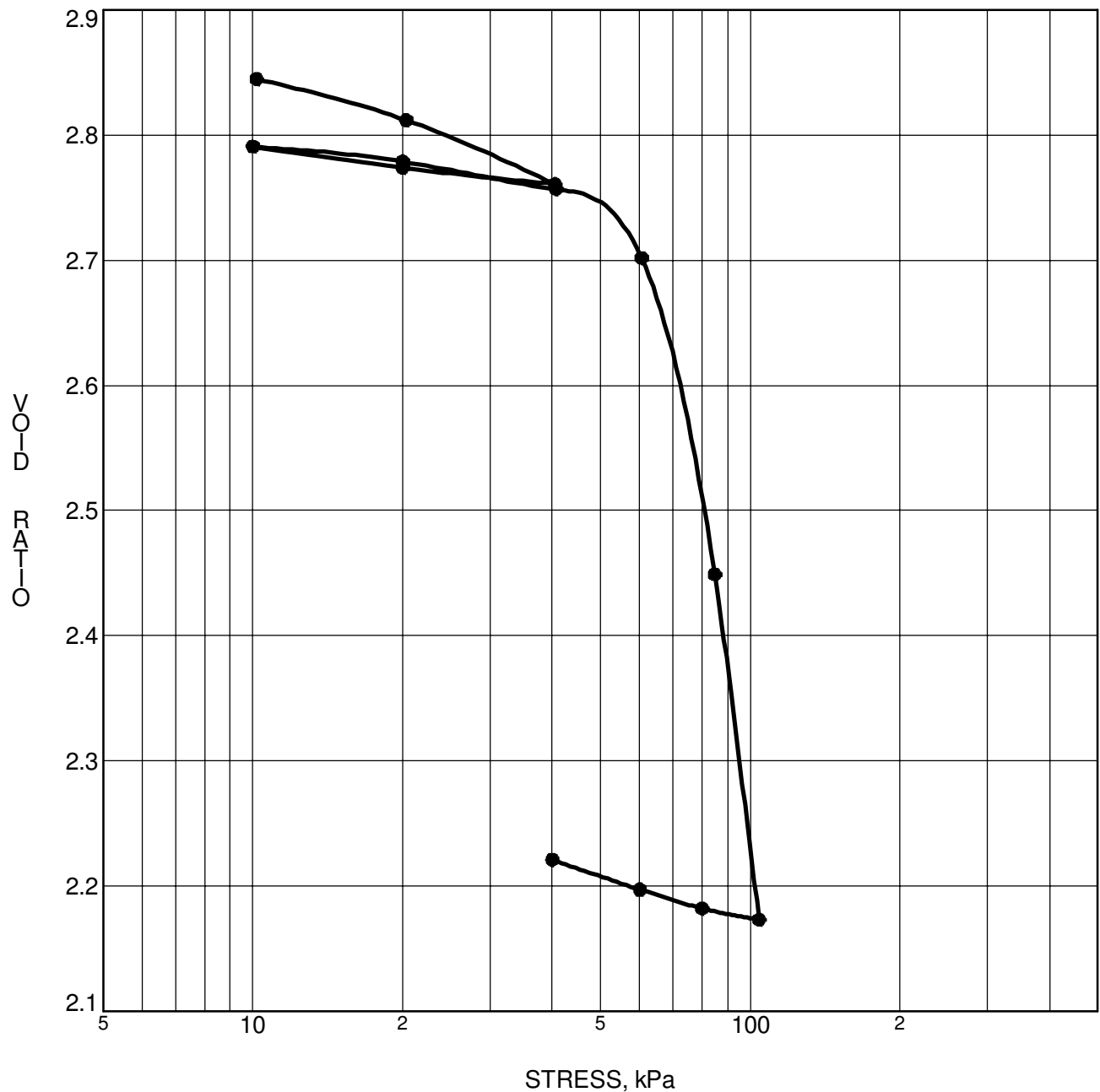
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH 9</b>	$p'_o$	<b>32 kPa</b>	$C_{cr}$	<b>0.067</b>
Sample No.	<b>TW 4</b>	$p'_c$	<b>55 kPa</b>	$C_c$	<b>3.811</b>
Sample Depth	<b>3.38 m</b>	OC Ratio	<b>1.7</b>	$W_o$	<b>105.2%</b>
Sample Elev.	<b>73.66 m</b>	Void Ratio	<b>2.893</b>	Unit Wt.	<b>14.5 kN/m<sup>3</sup></b>

CLIENT Fairlawn Sod c/o Mr. Ted Phillips  
 PROJECT Geotechnical Investigation - 8th Line Road and Anderson Road

FILE NO. PG2466  
 DATE 10/18/2011

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 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**CONSOLIDATION TEST**



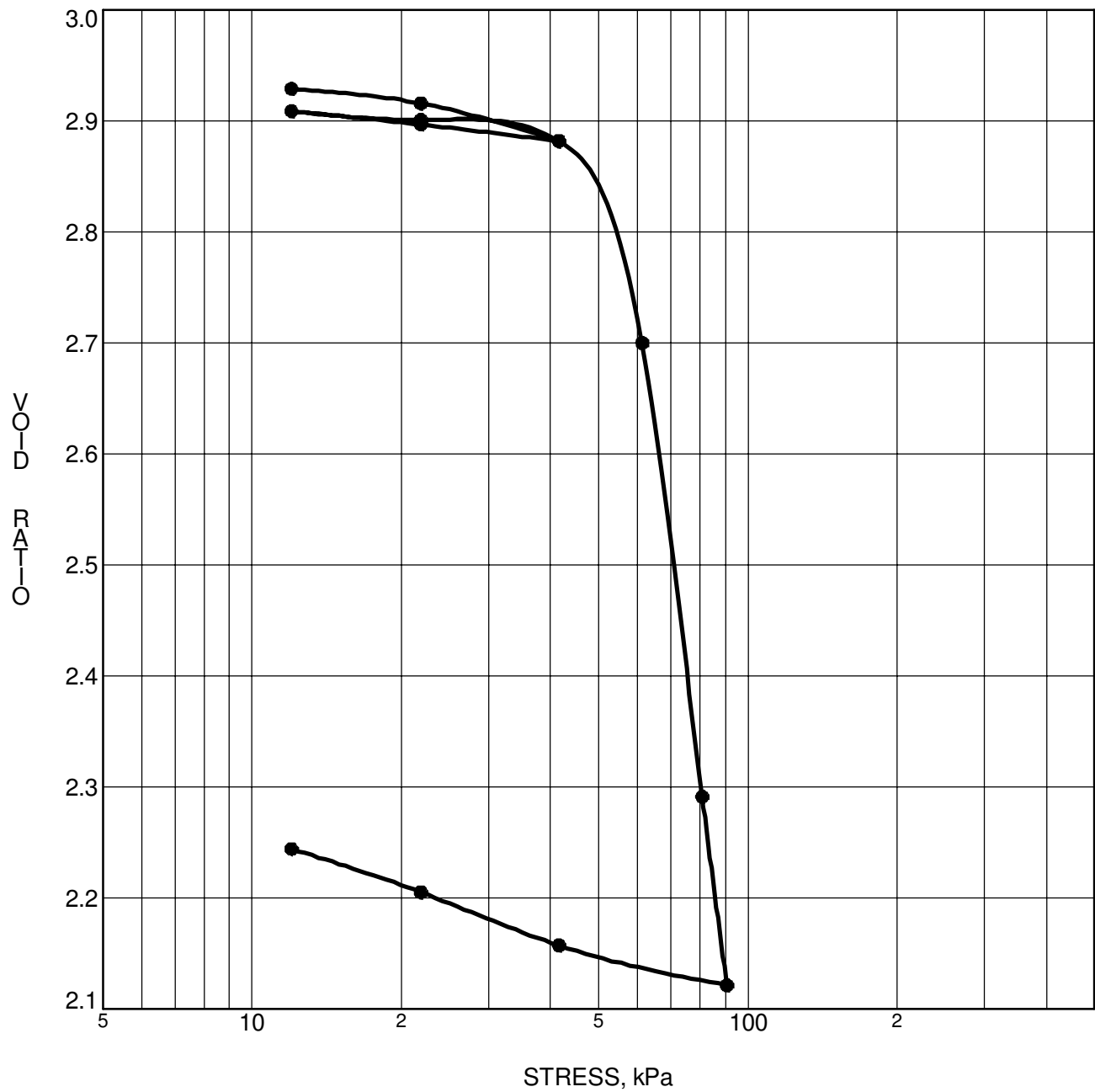
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH11</b>	$p'_o$	<b>45 kPa</b>	$C_{cr}$	<b>0.051</b>
Sample No.	<b>TW 4</b>	$p'_c$	<b>71 kPa</b>	$C_c$	<b>3.026</b>
Sample Depth	<b>4.29 m</b>	OC Ratio	<b>1.6</b>	$W_o$	<b>105.1 %</b>
Sample Elev.	<b>74.73 m</b>	Void Ratio	<b>2.891</b>	Unit Wt.	<b>14.6 kN/m<sup>3</sup></b>

CLIENT Fairlawn Sod c/o Mr. Ted Phillips  
 PROJECT Geotechnical Investigation - 8th Line Road and Anderson Road

FILE NO. PG2466  
 DATE 10/19/2011

**patersongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**CONSOLIDATION TEST**



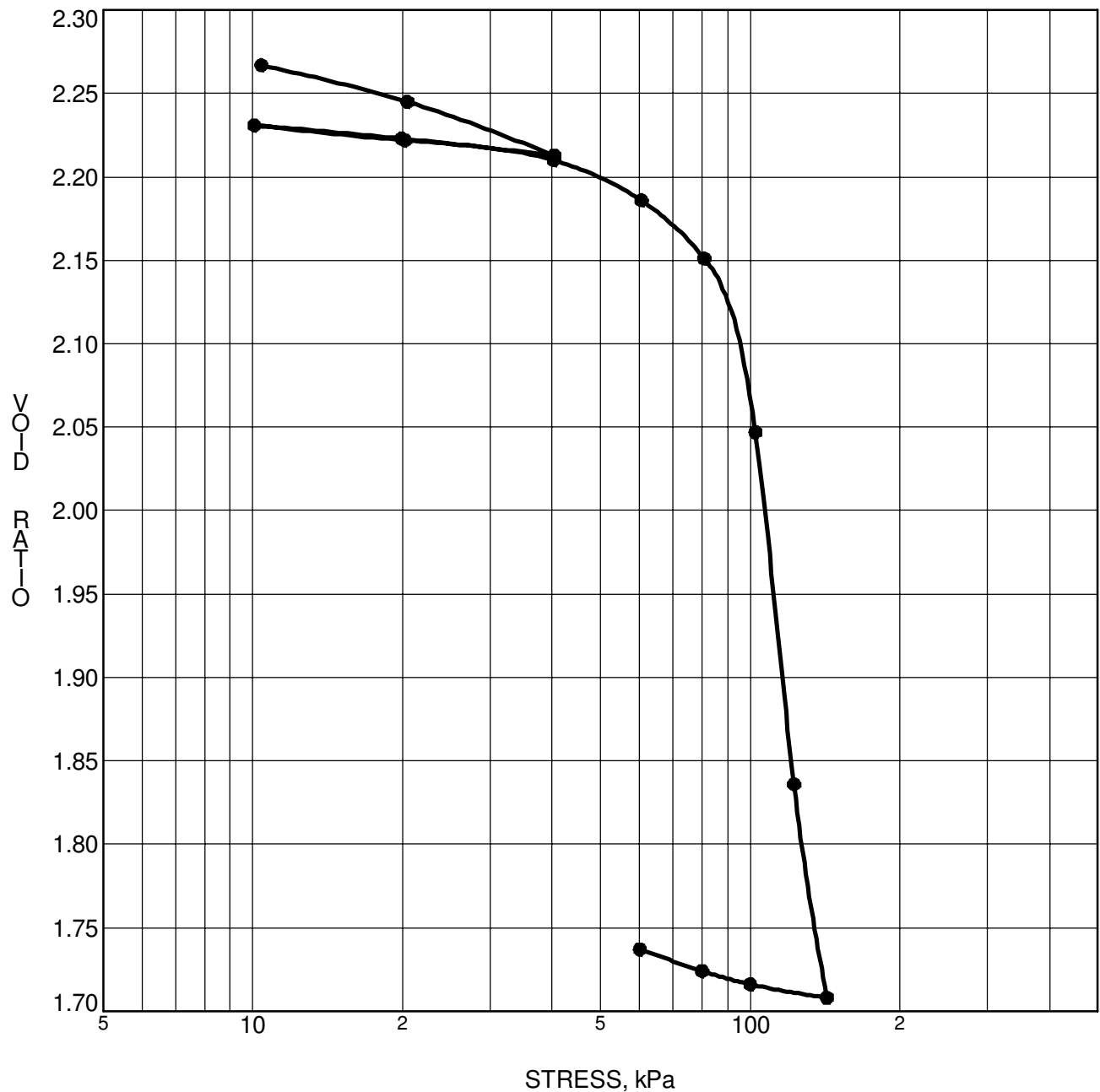
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH12A</b>	$p'_o$	<b>33 kPa</b>	$C_{cr}$	<b>0.046</b>
Sample No.	<b>TW 1</b>	$p'_c$	<b>63 kPa</b>	$C_c$	<b>5.112</b>
Sample Depth	<b>3.59 m</b>	OC Ratio	<b>1.9</b>	$W_o$	<b>107.4%</b>
Sample Elev.	<b>75.20 m</b>	Void Ratio	<b>2.954</b>	Unit Wt.	<b>14.5 kN/m<sup>3</sup></b>

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 PROJECT Geotechnical Investigation - 8th Line Road and Anderson Road

FILE NO. PG2466  
 DATE 10/25/2011

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**CONSOLIDATION TEST**



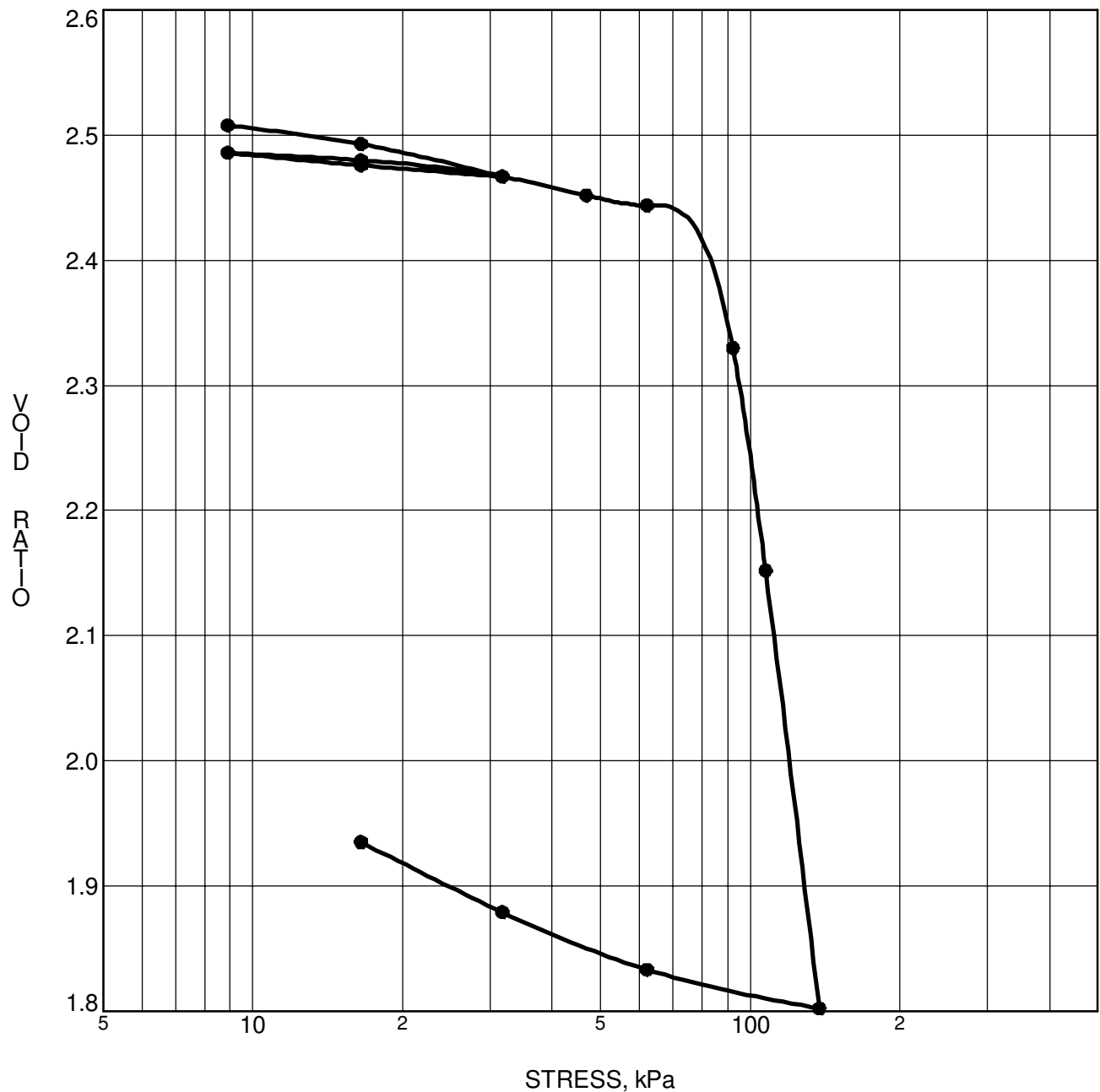
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH13</b>	$p'_o$	<b>82 kPa</b>	$C_{cr}$	<b>0.032</b>
Sample No.	<b>TW 5</b>	$p'_c$	<b>95 kPa</b>	$C_c$	<b>2.616</b>
Sample Depth	<b>8.91 m</b>	OC Ratio	<b>1.2</b>	$W_o$	<b>83.5 %</b>
Sample Elev.	<b>68.76 m</b>	Void Ratio	<b>2.296</b>	Unit Wt.	<b>15.5 kN/m<sup>3</sup></b>

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 PROJECT Geotechnical Investigation - 8th Line Road and Anderson Road

FILE NO. PG2466  
 DATE 10/19/2011

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**CONSOLIDATION TEST**



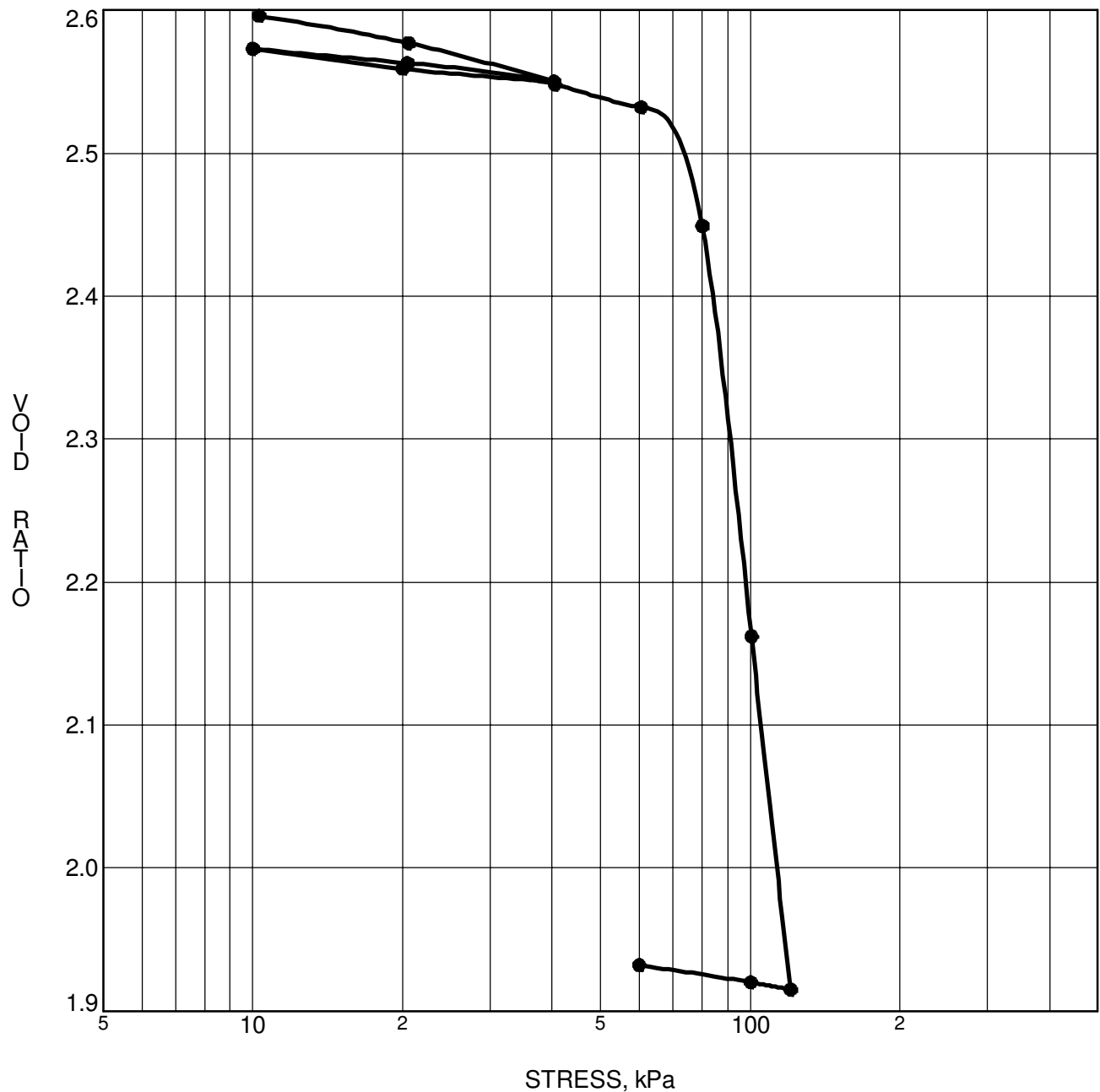
CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH14</b>	$p'_o$	<b>40 kPa</b>	$C_{cr}$	<b>0.032</b>
Sample No.	<b>TW 3</b>	$p'_c$	<b>90 kPa</b>	$C_c$	<b>3.306</b>
Sample Depth	<b>3.49 m</b>	OC Ratio	<b>2.3</b>	$W_o$	<b>91.8 %</b>
Sample Elev.	<b>75.27 m</b>	Void Ratio	<b>2.523</b>	Unit Wt.	<b>15.1 kN/m<sup>3</sup></b>

CLIENT Fairlawn Sod c/o Mr. Ted Phillips  
 PROJECT Geotechnical Investigation - 8th Line Road and Anderson Road

FILE NO. PG2466  
 DATE 11/09/11

**paterongroup** Consulting Engineers  
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**CONSOLIDATION TEST**



CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH15</b>	$p'_o$	<b>46 kPa</b>	$C_{cr}$	<b>0.041</b>
Sample No.	<b>TW 3</b>	$p'_c$	<b>79 kPa</b>	$C_c$	<b>3.160</b>
Sample Depth	<b>5.34 m</b>	OC Ratio	<b>1.7</b>	$W_o$	<b>95.2 %</b>
Sample Elev.	<b>73.22 m</b>	Void Ratio	<b>2.618</b>	Unit Wt.	<b>15.1 kN/m<sup>3</sup></b>

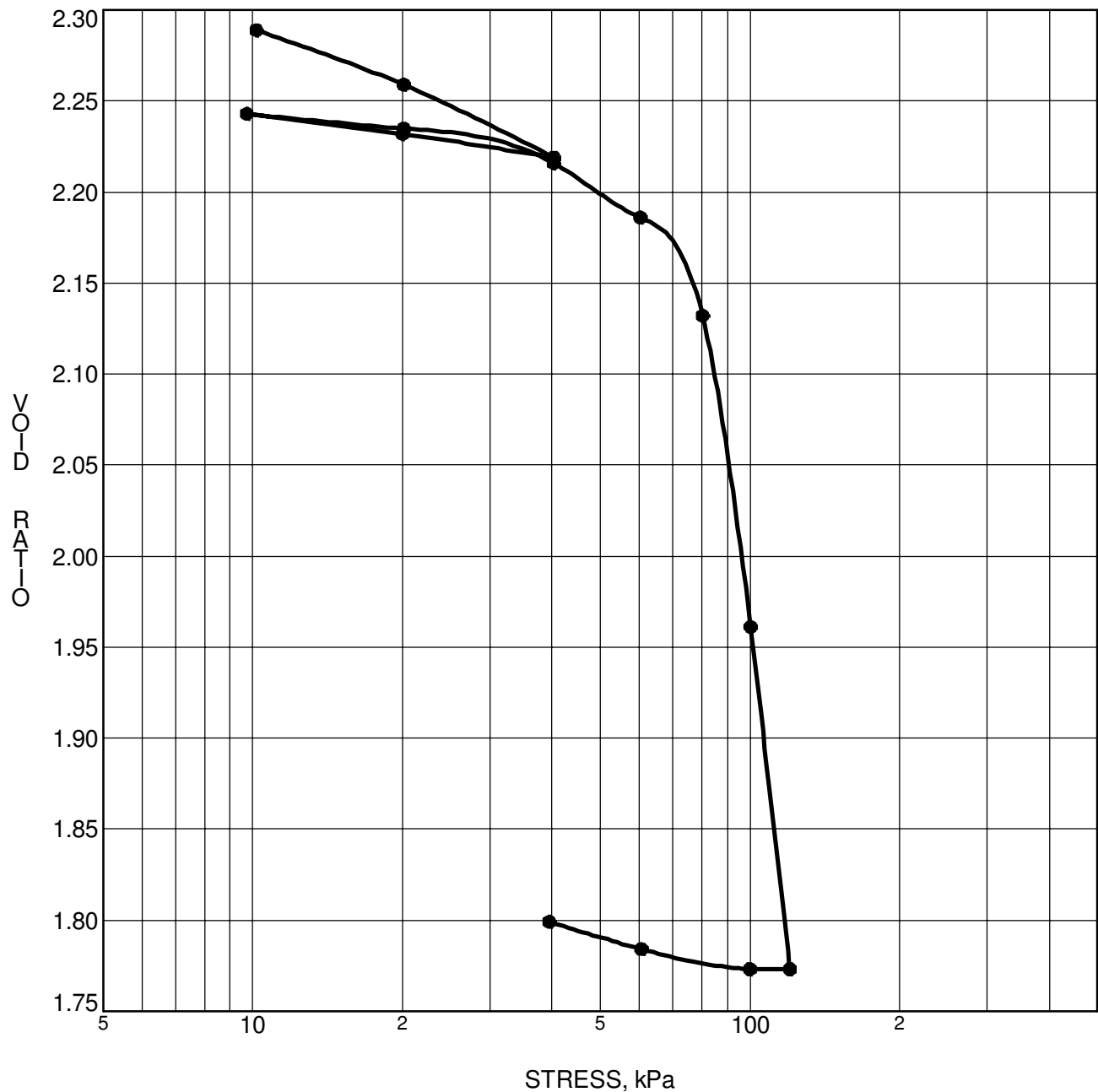
CLIENT Fairlawn Sod c/o Mr. Ted Phillips  
 PROJECT Geotechnical Investigation - 8th Line Road and Anderson Road

FILE NO. PG2466  
 DATE 11/08/11

**paterongroup** Consulting Engineers  
 154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**CONSOLIDATION TEST**





CONSOLIDATION TEST DATA SUMMARY					
Borehole No.	<b>BH16</b>	$p'_o$	<b>49 kPa</b>	$C_{cr}$	<b>0.041</b>
Sample No.	<b>TW 4</b>	$p'_c$	<b>85 kPa</b>	$C_c$	<b>2.551</b>
Sample Depth	<b>5.03 m</b>	OC Ratio	<b>1.7</b>	$W_o$	<b>84.1 %</b>
Sample Elev.	<b>74.42 m</b>	Void Ratio	<b>2.314</b>	Unit Wt.	<b>15.6 kN/m<sup>3</sup></b>

CLIENT Fairlawn Sod c/o Mr. Ted Phillips  
 PROJECT Geotechnical Investigation - 8th Line Road and Anderson Road

FILE NO. PG2466  
 DATE 11/08/11

**paterongroup** Consulting Engineers  
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**CONSOLIDATION TEST**

SUMMARY OF CONSOLIDATION TEST RESULTS – PG5827								
Sample No.	Ground Elev. (m)	Depth (m)	Elevation (m)	p <sub>c</sub> (kPa)	p <sub>o</sub> (kPa)	C <sub>cr</sub>	C <sub>c</sub>	W.C. (%)
<b>2022 Testing Program</b>								
BH5-22 - TW4	78.76	3.40	75.36	102.3	33.3	0.023	2.143	80
BH6A-22 - TW3	82.11	2.67	79.44	70.0	35.4	0.042	1.152	68
BH8-22 - TW5	80.51	4.90	75.61	70.8	67.2	0.036	4.000	98
BH9-22 - TW7	79.24	9.45	69.79	120.2	78.1	0.024	4.794	93
BH10-22 - TW4	82.47	2.54	79.93	73.3	36.2	0.026	1.277	67
BH13A-22 - TW3	80.97	3.35	77.62	60.3	38.2	0.040	3.088	85
BH13B-22 - TW1	80.97	4.19	76.78	72.1	43.4	0.025	3.724	88
BH14-22 - TW5	81.61	4.14	77.47	81.3	38.6	0.020	3.608	85
BH16-22 - TW4	81.30	3.35	77.95	67.6	34.5	0.020	1.493	62
BH16-22 - TW6	81.30	4.88	76.42	70.8	43.9	0.030	1.935	85
BH19-22 - TW3	78.47	1.93	76.54	56.2	27.5	0.017	1.087	73
BH21-22 - TW4	79.17	2.59	76.58	72.4	35.6	0.047	2.518	88
BH21-22 - TW6	79.17	4.11	75.06	56.2	45.0	0.037	1.579	68
BH22A-22 - TW1	78.70	2.59	76.11	54.0	34.9	0.041	1.368	64
BH27-22 - W4	79.71	1.91	77.81	53.1	23.4	0.047	2.364	85
BH28-22 - TW5	77.53	3.35	74.18	67.1	25.7	0.041	1.909	76
BH30-22 - TW10	79.71	7.16	72.55	81.4	56.3	0.091	3.302	77
BH34-22 - TW4	79.05	2.67	76.38	50.7	29.3	0.056	1.916	79
BH36-22 - TW5	78.62	3.35	75.27	70.0	33.0	0.036	2.638	75
BH37-22 - TW15	77.89	10.97	66.92	112.2	86.4	0.018	1.471	71
BH38A-22 - TW5	77.77	3.35	74.42	62.5	39.6	0.053	0.935	66
BH40-22 - TW8	79.51	5.74	73.77	54.1	57.3	0.042	0.750	55
BH43-22 - TW6	79.91	5.05	74.86	71.3	51.2	0.045	2.250	76
BH44-22 - TW7	79.37	5.82	73.55	59.4	59.4	0.018	0.484	45
BH45-22 - TW6	80.19	4.12	76.08	74.5	45.2	0.033	1.148	61
BH46A-22 - TW3	80.18	7.26	72.92	63.1	72.8	0.046	2.000	76
BH47-22 - TW6	78.99	4.67	74.32	63.1	50.3	0.055	2.647	100
BH48-22 - TW6	78.81	4.22	74.59	74.1	45.0	0.033	1.515	97
BH49A-22 - TW3	79.26	2.59	76.67	55.0	36.7	0.075	2.586	86
BH49A-22 - TW4	79.26	4.75	74.51	50.1	50.1	0.043	1.364	63
BH55-22 - TW8	80.24	5.79	74.45	57.5	54.7	0.037	1.111	86
BH56A-22 - TW3	80.21	2.59	77.62	66.1	28.3	0.022	0.409	36
BH59A-22 - TW3	79.31	2.59	76.72	63.1	34.9	0.043	0.856	64
BH61-22 - TW6	79.20	4.12	75.09	54.5	37.7	0.060	4.771	93
BH62-22 - TW5	79.98	3.45	75.53	48.6	33.6	0.040	1.630	68
BH64-22 - TW4	78.83	2.77	76.06	77.6	37.6	0.038	1.282	99
BH64-22 - TW6	78.83	4.22	74.61	69.2	46.5	0.049	2.344	79
<b>2011 Testing Program</b>								
BH1 - TW4	78.78	4.36	74.42	74.0	44.0	0.027	3.606	96
BH2 - TW3	79.62	3.58	76.04	64.0	33.0	0.024	2.803	99
BH 3 - TW3	78.74	4.27	74.47	66.0	53.0	0.019	3.537	91
BH3 - TW4	78.74	5.87	72.87	116.0	63.0	0.020	0.434	42
BH4 - TW5	79.97	4.27	75.70	86.0	38.0	0.056	1.228	104
BH5 - TW3	80.39	3.20	77.19	67.0	31.0	0.039	2.218	76
BH6 - TW4	79.96	3.61	76.15	55.0	34.0	0.050	2.619	91
BH6A - TW1	79.76	2.04	77.72	62.0	24.0	0.032	2.559	72
BH7 - TW2	80.10	2.82	77.28	78.0	29.0	0.019	1.127	52
BH8 - TW3	80.01	2.72	77.29	60.0	28.0	0.040	2.391	83
BH8 - TW4	80.01	4.36	75.65	51.0	38.0	0.046	2.310	85
BH9 - TW4	77.04	3.38	73.66	55.0	32.0	0.067	3.811	105
BH11 - TW4	79.02	4.29	74.73	71.0	45.0	0.051	3.026	105
BH12A - TW1	78.79	3.59	75.20	63.0	33.0	0.046	5.112	107
BH13 - TW5	77.67	8.91	68.76	95.0	82.0	0.032	2.616	84
BH14 - TW3	78.76	3.49	75.27	90.0	40.0	0.032	3.306	92
BH15 - TW3	78.56	5.34	73.22	79.0	46.0	0.041	3.160	95
BH16 - TW4	79.45	5.03	74.42	85.0	49.0	0.041	2.551	84

Certificate of Analysis

Report Date: 24-Mar-2022

Client: Paterson Group Consulting Engineers

Order Date: 21-Mar-2022

Client PO: 33929

Project Description: PG5827

<b>Client ID:</b>	BH6A-22 SS2	BH42A-22 SS1	-	-
<b>Sample Date:</b>	18-Mar-22 09:00	18-Mar-22 09:00	-	-
<b>Sample ID:</b>	2213098-01	2213098-02	-	-
<b>MDL/Units</b>	Soil	Soil	-	-

**Physical Characteristics**

% Solids	0.1 % by Wt.	79.8	59.3	-	-
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**General Inorganics**

pH	0.05 pH Units	7.57	7.70	-	-
Resistivity	0.10 Ohm.m	26.2	20.2	-	-

**Anions**

Chloride	5 ug/g dry	90	166	-	-
Sulphate	5 ug/g dry	87	48	-	-

Certificate of Analysis

Report Date: 21-Apr-2022

Client: Paterson Group Consulting Engineers

Order Date: 14-Apr-2022

Client PO: 27362

Project Description: PG5827

<b>Client ID:</b>	BH18-22 SS3	-	-	-
<b>Sample Date:</b>	14-Apr-22 09:00	-	-	-
<b>Sample ID:</b>	2216483-01	-	-	-
<b>MDL/Units</b>	Soil	-	-	-

**Physical Characteristics**

% Solids	0.1 % by Wt.	68.0	-	-	-
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**General Inorganics**

pH	0.05 pH Units	7.23	-	-	-
Resistivity	0.10 Ohm.m	18.5	-	-	-

**Anions**

Chloride	5 ug/g dry	196	-	-	-
Sulphate	5 ug/g dry	89	-	-	-

Certificate of Analysis

Report Date: 18-Apr-2022

Client: Paterson Group Consulting Engineers

Order Date: 11-Apr-2022

Client PO: 33897

Project Description: PG5827

<b>Client ID:</b>	BH33-22 SS3	BH38A-22 SS3	-	-
<b>Sample Date:</b>	08-Apr-22 09:00	08-Apr-22 09:00	-	-
<b>Sample ID:</b>	2216118-01	2216118-02	-	-
<b>MDL/Units</b>	Soil	Soil	-	-

**Physical Characteristics**

% Solids	0.1 % by Wt.	59.4	63.8	-	-
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**General Inorganics**

pH	0.05 pH Units	7.91	7.87	-	-
Resistivity	0.10 Ohm.m	10.8	21.4	-	-

**Anions**

Chloride	5 ug/g dry	404	151	-	-
Sulphate	5 ug/g dry	314	52	-	-

Certificate of Analysis

Report Date: 29-Mar-2022

Client: Paterson Group Consulting Engineers

Order Date: 24-Mar-2022

Client PO: 33922

Project Description: PG5827

<b>Client ID:</b>	BH45A-22 SS3	BH49A-22 SS2	-	-
<b>Sample Date:</b>	24-Mar-22 09:00	24-Mar-22 09:00	-	-
<b>Sample ID:</b>	2213504-01	2213504-02	-	-
<b>MDL/Units</b>	Soil	Soil	-	-

**Physical Characteristics**

% Solids	0.1 % by Wt.	64.7	74.4	-	-
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**General Inorganics**

pH	0.05 pH Units	7.91	7.68	-	-
Resistivity	0.10 Ohm.m	32.3	128	-	-

**Anions**

Chloride	5 ug/g dry	16	13	-	-
Sulphate	5 ug/g dry	93	6	-	-

Certificate of Analysis

Report Date: 01-Apr-2022

Client: Paterson Group Consulting Engineers

Order Date: 28-Mar-2022

Client PO: 33769

Project Description: PG5827

<b>Client ID:</b>	BH52-22 SS2	BH55-22 SS3	-	-
<b>Sample Date:</b>	23-Mar-22 09:00	24-Mar-22 09:00	-	-
<b>Sample ID:</b>	2214090-01	2214090-02	-	-
<b>MDL/Units</b>	Soil	Soil	-	-

**Physical Characteristics**

% Solids	0.1 % by Wt.	68.0	59.4	-	-
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**General Inorganics**

pH	0.05 pH Units	7.56	8.08	-	-
Resistivity	0.10 Ohm.m	33.6	13.7	-	-

**Anions**

Chloride	5 ug/g dry	58	243	-	-
Sulphate	5 ug/g dry	52	35	-	-

Certificate of Analysis

Report Date: 07-Apr-2022

Client: Paterson Group Consulting Engineers

Order Date: 1-Apr-2022

Client PO: 33891

Project Description: PG5827

<b>Client ID:</b>	BH59-22 SS3	BH64-22 SS3	-	-
<b>Sample Date:</b>	01-Apr-22 09:00	01-Apr-22 09:00	-	-
<b>Sample ID:</b>	2214535-01	2214535-02	-	-
<b>MDL/Units</b>	Soil	Soil	-	-

**Physical Characteristics**

% Solids	0.1 % by Wt.	76.4	78.3	-	-
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**General Inorganics**

pH	0.05 pH Units	6.95	7.81	-	-
Resistivity	0.10 Ohm.m	82.0	76.3	-	-

**Anions**

Chloride	5 ug/g dry	16	36	-	-
Sulphate	5 ug/g dry	8	8	-	-



Certificate of Analysis

Report Date: 27-Feb-2023

Client: Paterson Group Consulting Engineers

Order Date: 21-Feb-2023

Client PO: 56848

Project Description: PG5827

<b>Client ID:</b>	BH66-23-SS3	-	-	-
<b>Sample Date:</b>	17-Feb-23 00:00	-	-	-
<b>Sample ID:</b>	2308089-01	-	-	-
<b>MDL/Units</b>	Soil	-	-	-

**Physical Characteristics**

% Solids	0.1 % by Wt.	83.8	-	-	-
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**General Inorganics**

pH	0.05 pH Units	7.87	-	-	-
Resistivity	0.10 Ohm.m	36.2	-	-	-

**Anions**

Chloride	10 ug/g dry	78	-	-	-
Sulphate	10 ug/g dry	26	-	-	-

Certificate of Analysis

Report Date: 14-Jun-2022

Client: Paterson Group Consulting Engineers

Order Date: 7-Jun-2022

Client PO: 54898

Project Description: PG5827

<b>Client ID:</b>	BH71-22-SS2 (Bottom)	-	-	-
<b>Sample Date:</b>	02-Jun-22 09:00	-	-	-
<b>Sample ID:</b>	2224287-01	-	-	-
<b>MDL/Units</b>	Soil	-	-	-

**Physical Characteristics**

% Solids	0.1 % by Wt.	75.3	-	-	-
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**General Inorganics**

pH	0.05 pH Units	6.89	-	-	-
Resistivity	0.10 Ohm.m	107	-	-	-

**Anions**

Chloride	5 ug/g dry	<5	-	-	-
Sulphate	5 ug/g dry	36	-	-	-

# APPENDIX 2

FIGURE 1A TO FIGURE 37B - SLOPE STABILITY ANALYSIS CROSS-SECTIONS

PHOTOGRAPHS FROM SITE VISIT

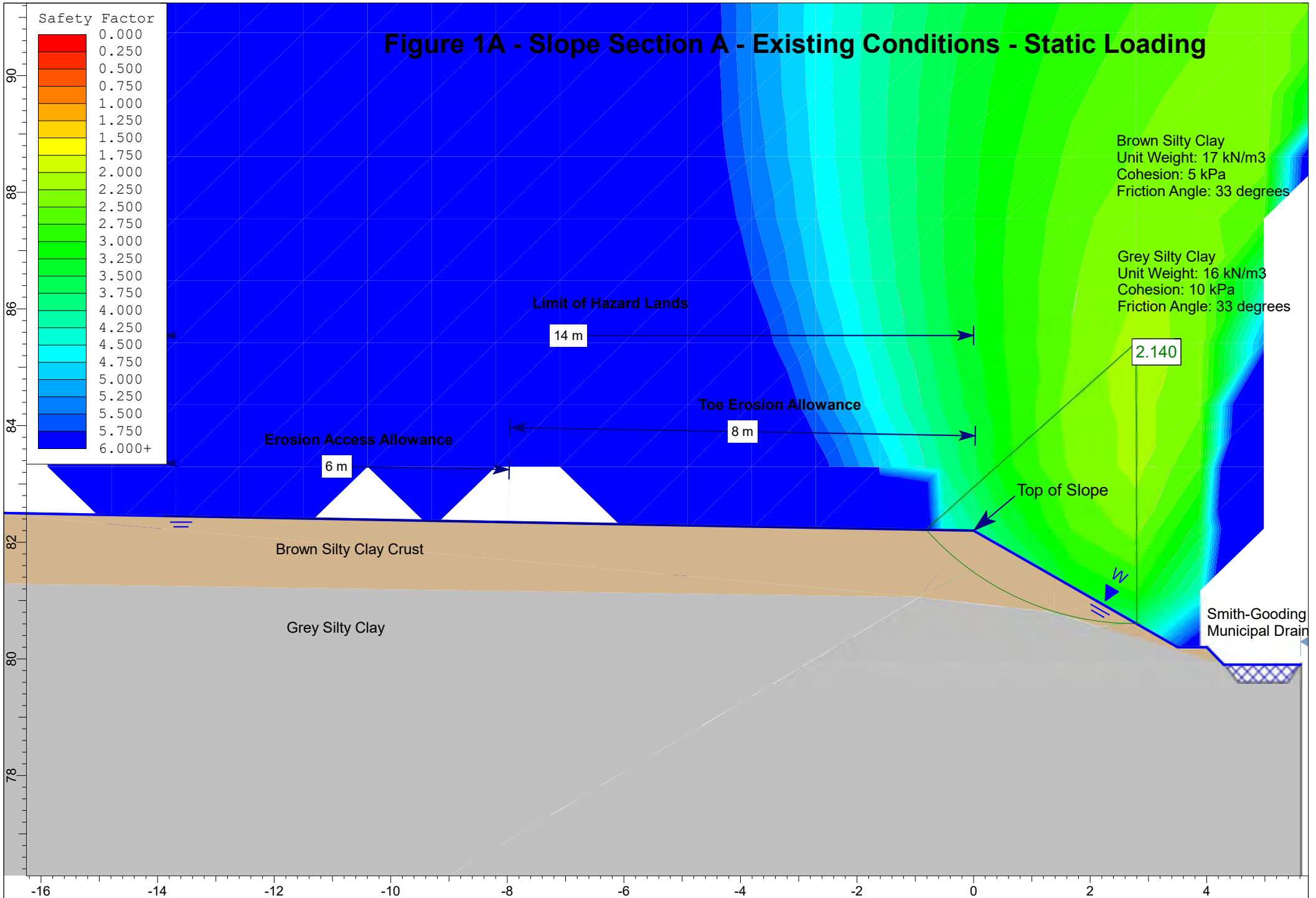
FIGURE 38 - KEY PLAN

DRAWING PG5827-1 - TEST HOLE LOCATION PLAN

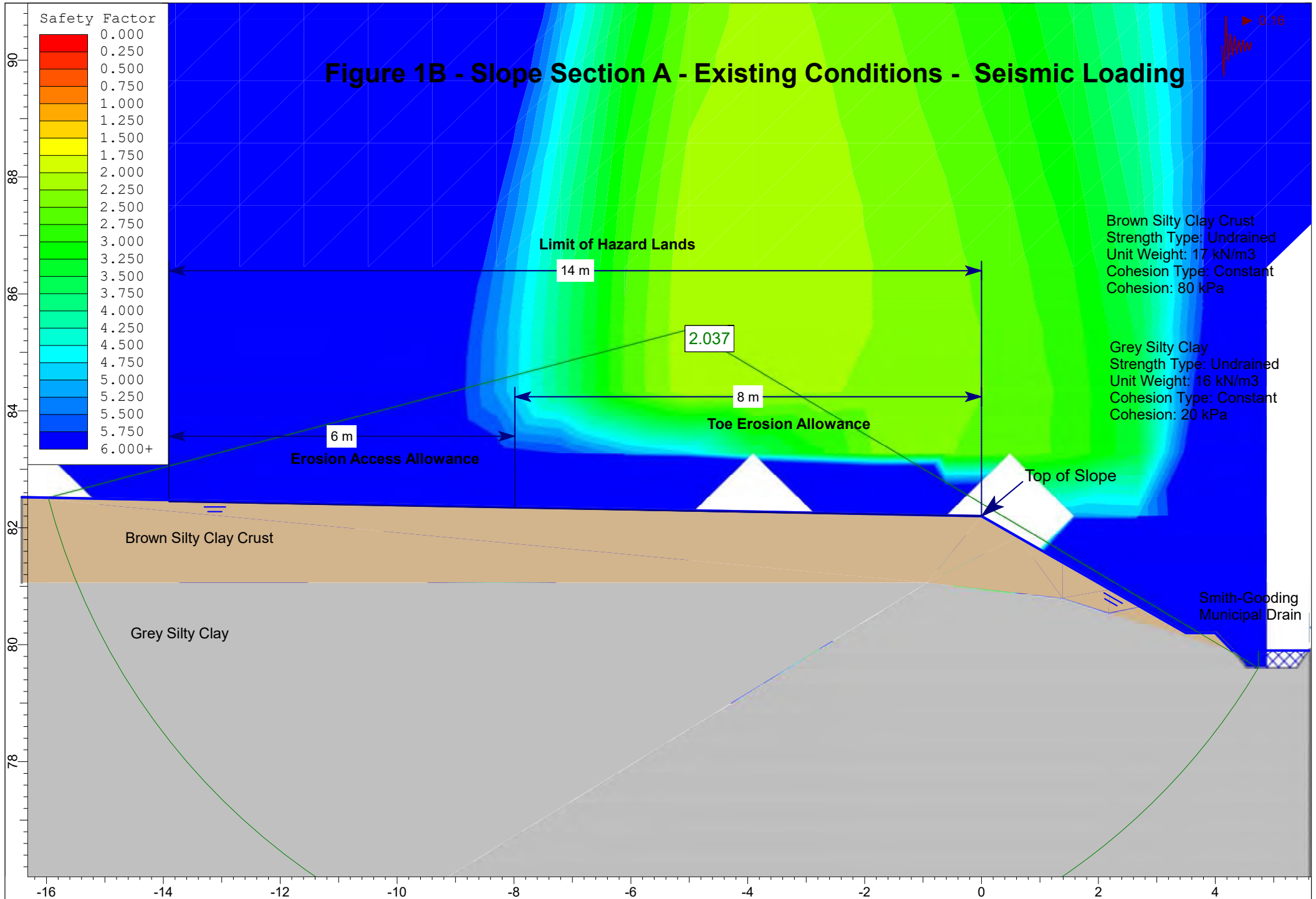
DRAWING PG5827-3 - SURFICIAL SAND LAYER THICKNESS CONTOUR PLAN

DRAWING PG5827-4 TO PG5827-8 - LIMIT OF HAZARD LANDS PLAN

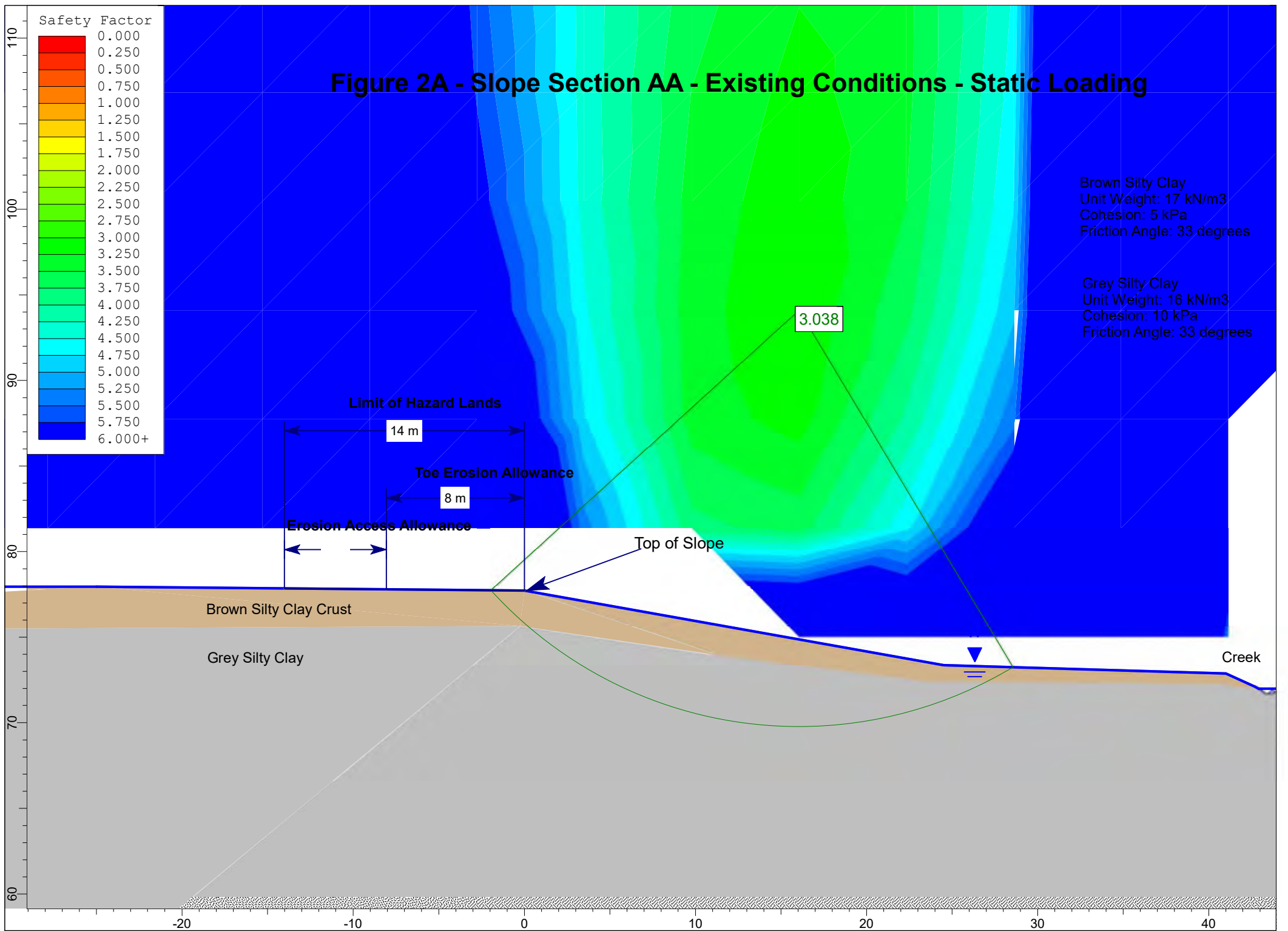
# Figure 1A - Slope Section A - Existing Conditions - Static Loading

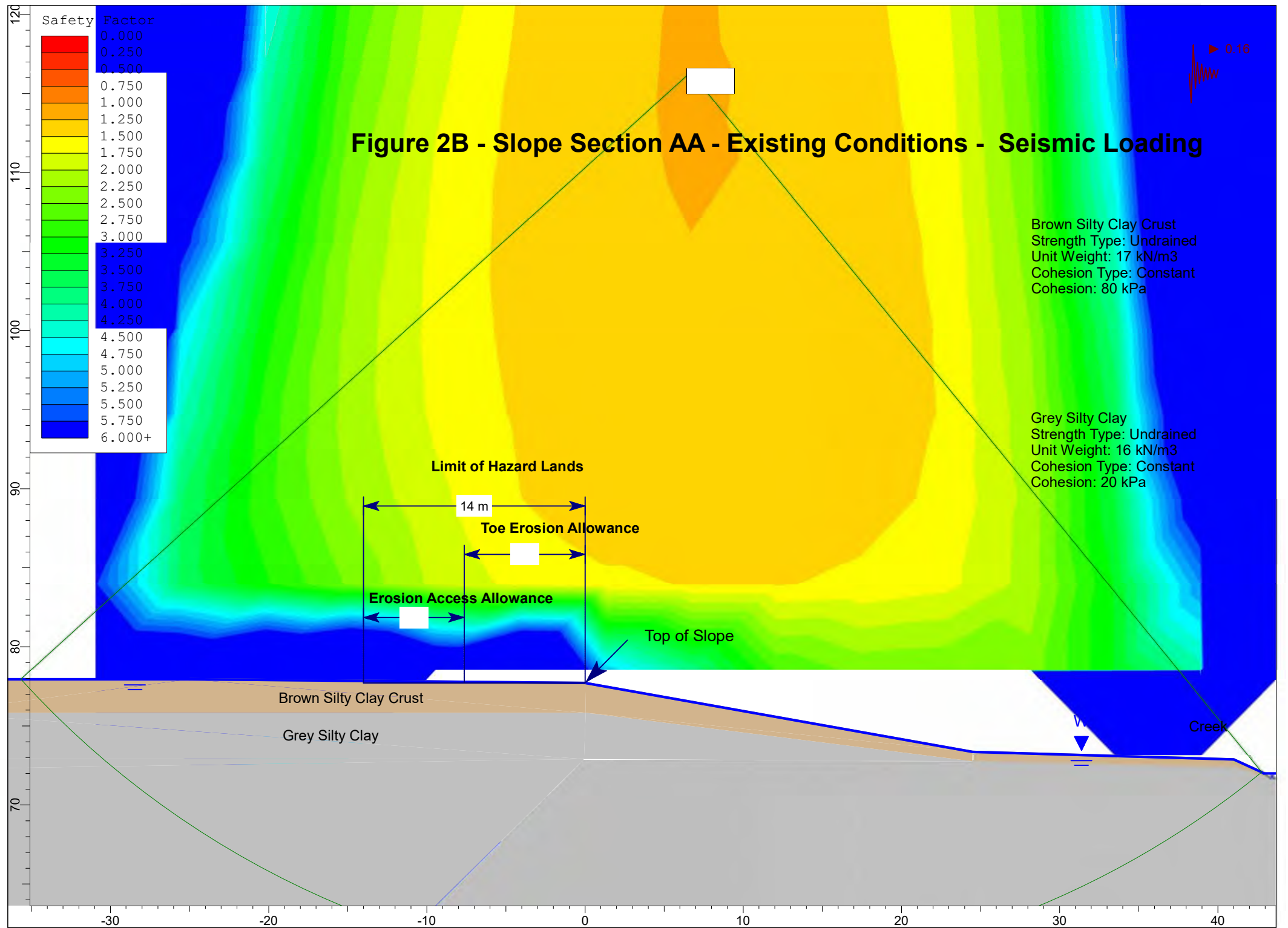


# Figure 1B - Slope Section A - Existing Conditions - Seismic Loading

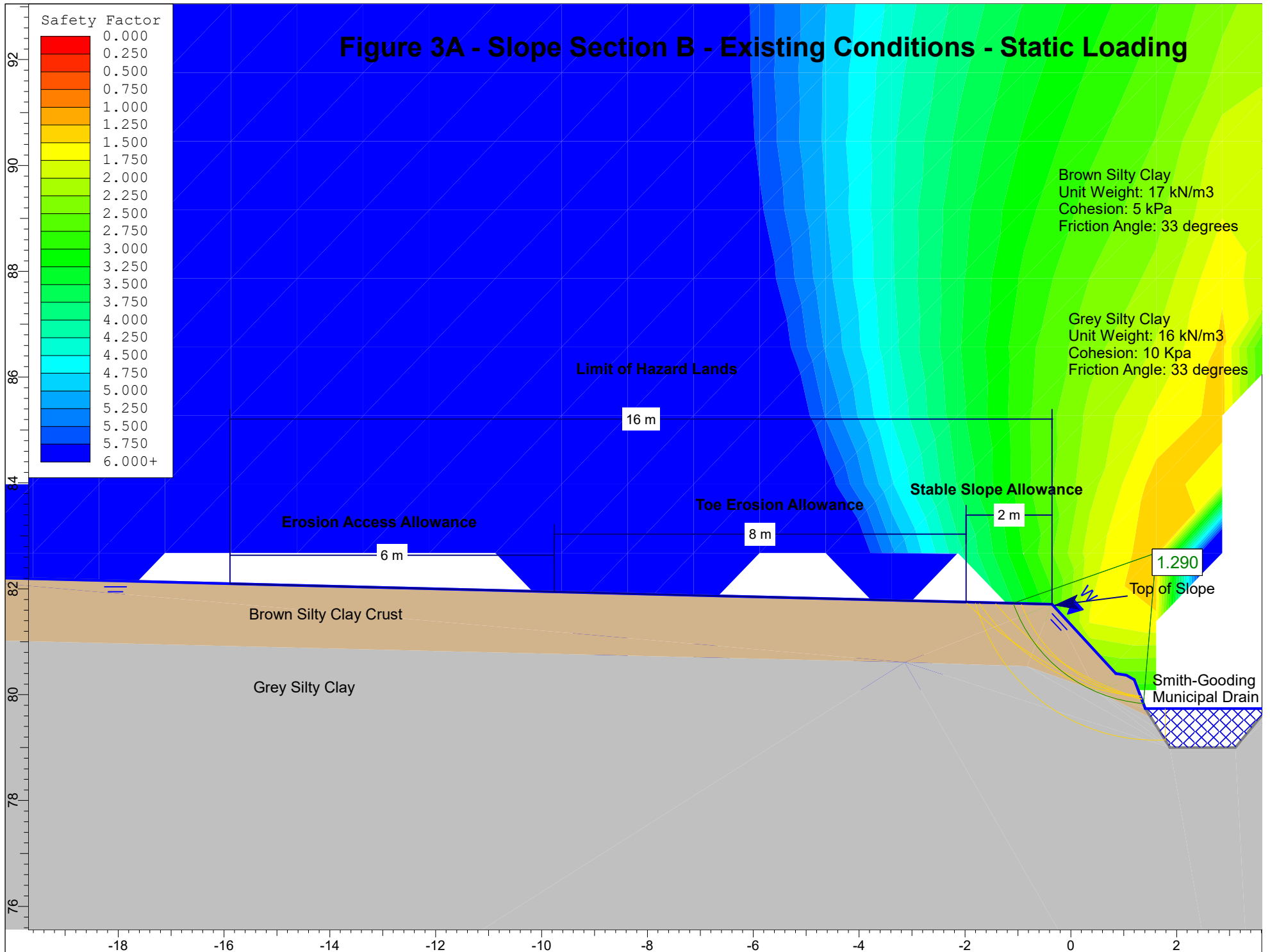


# Figure 2A - Slope Section AA - Existing Conditions - Static Loading



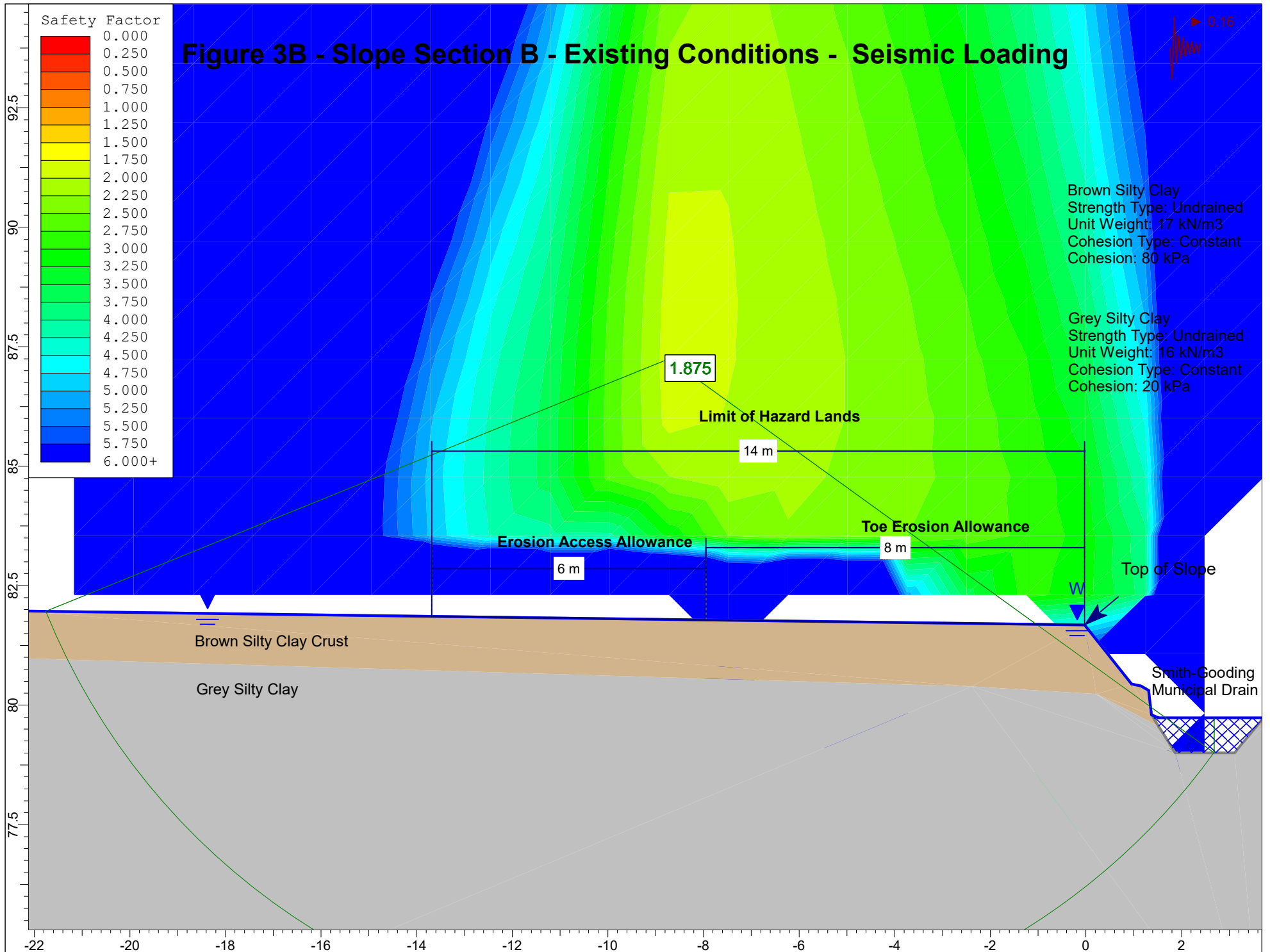


# Figure 3A - Slope Section B - Existing Conditions - Static Loading

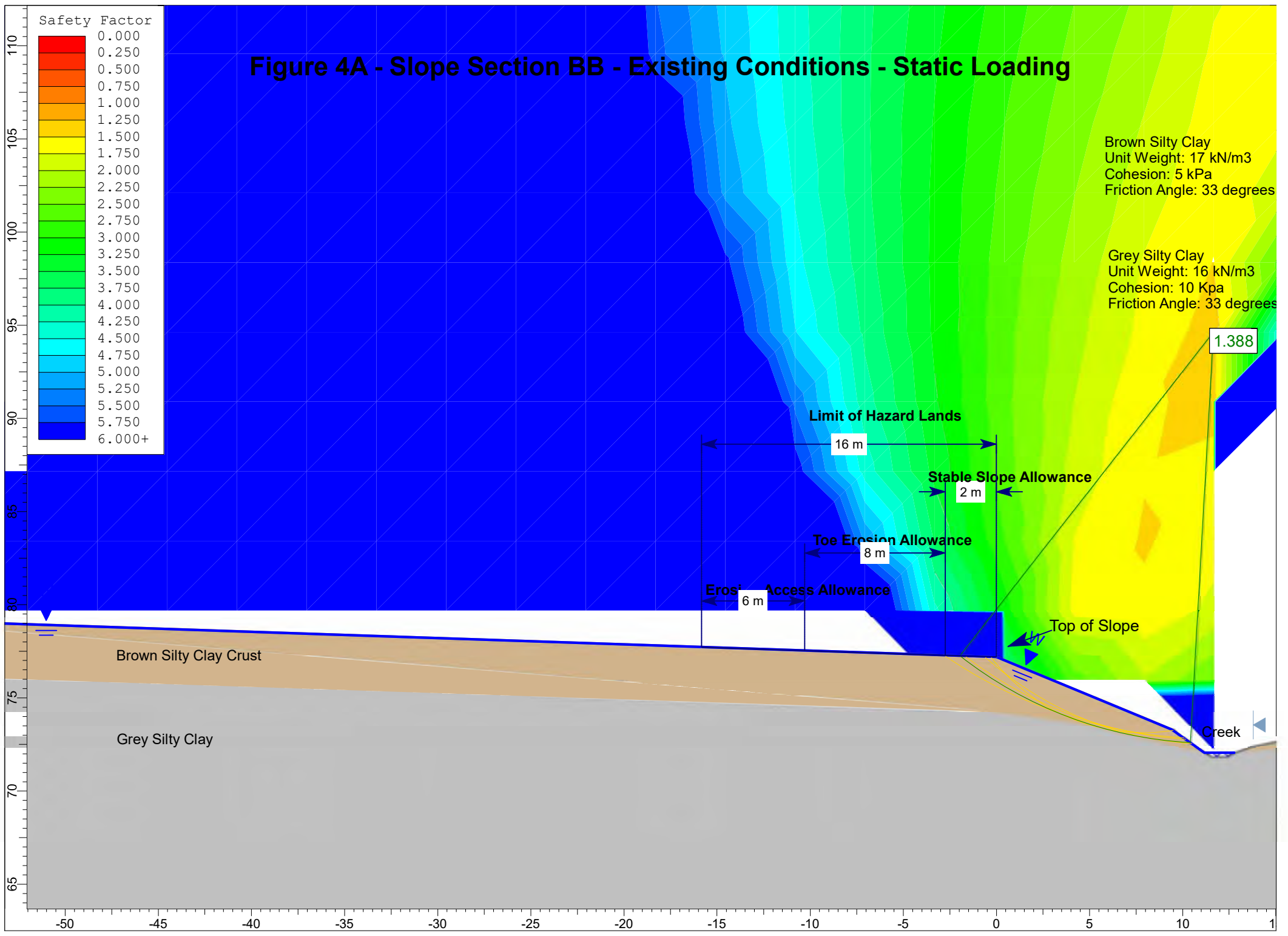




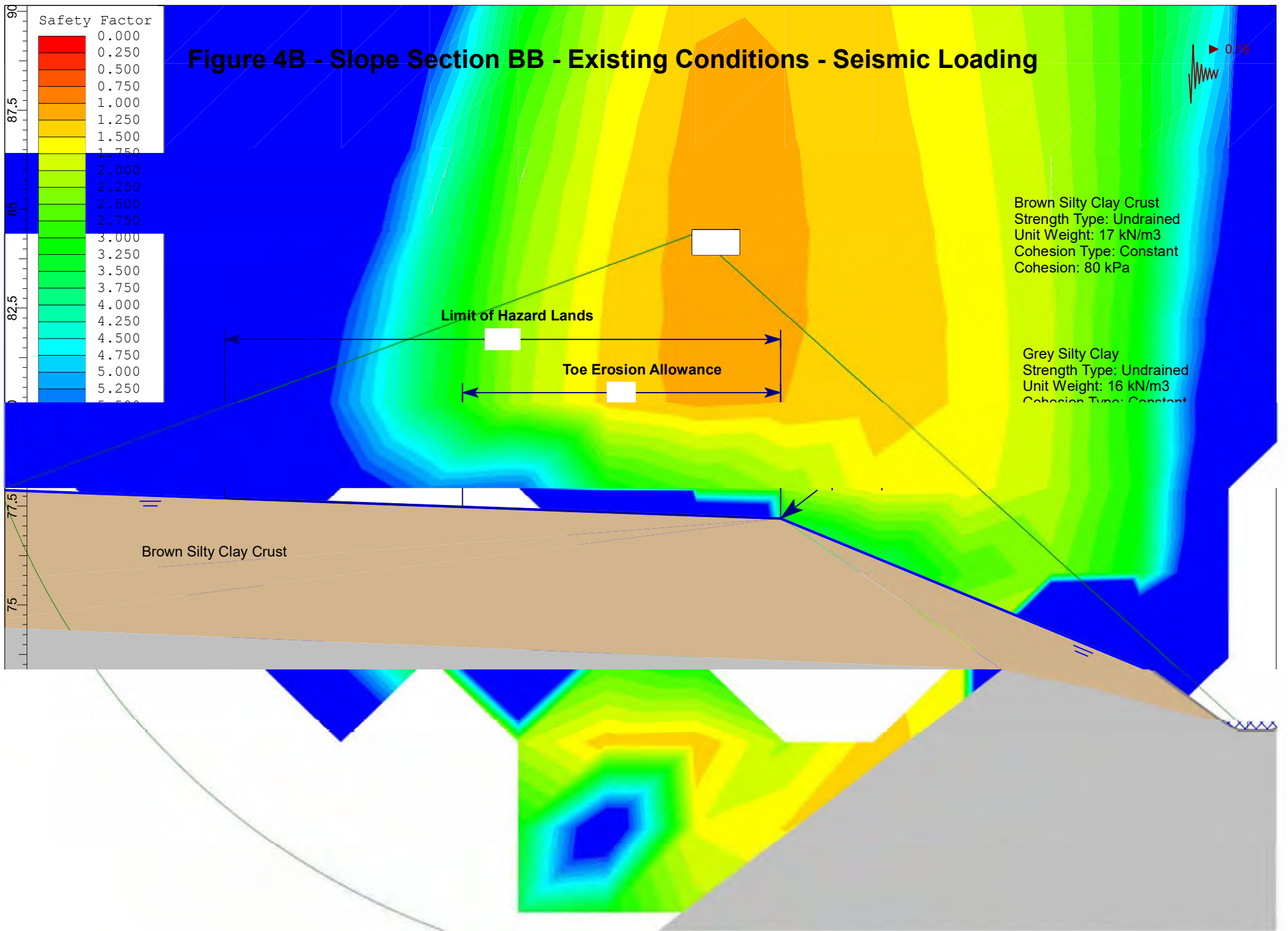
# Figure 3B - Slope Section B - Existing Conditions - Seismic Loading



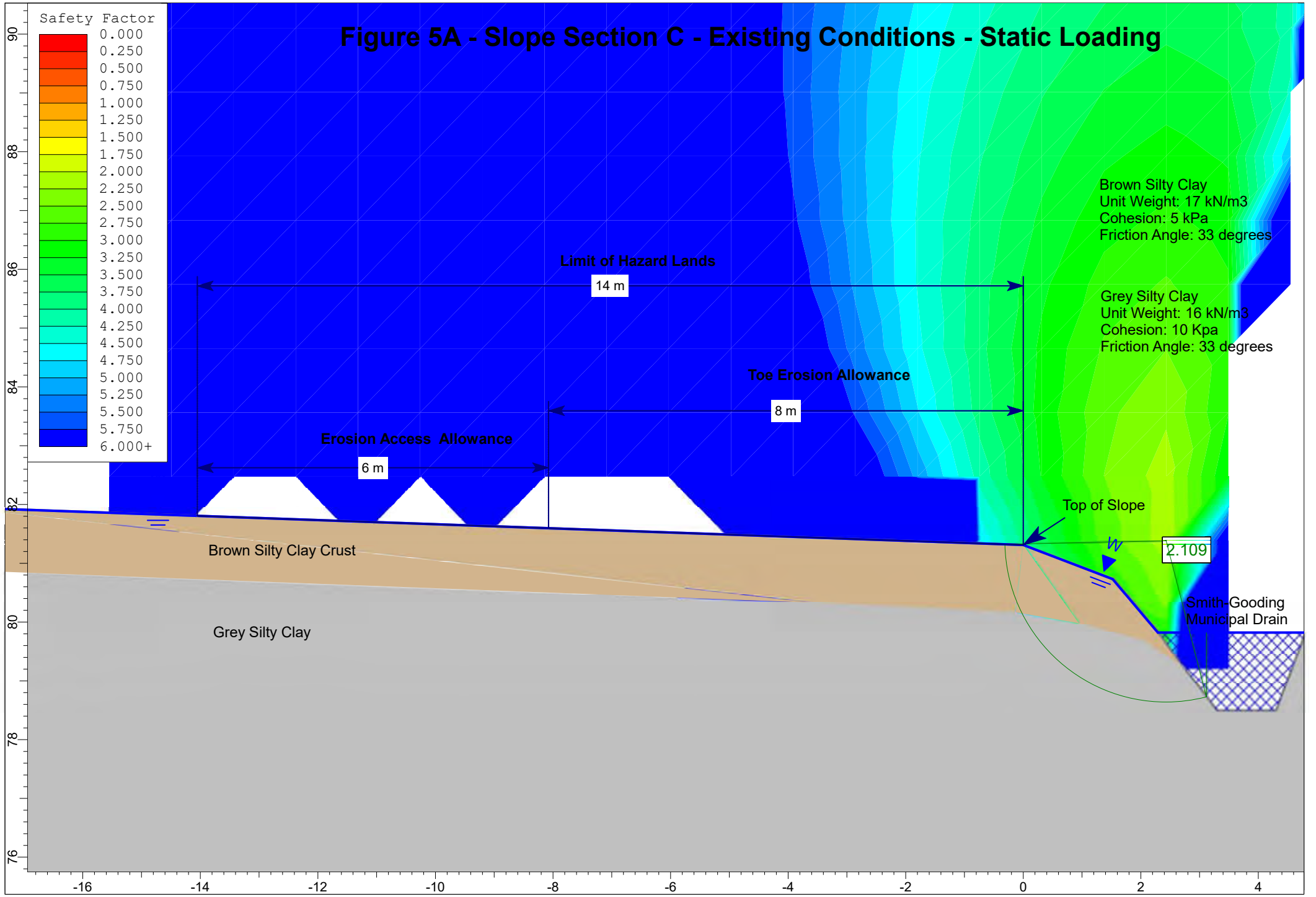
# Figure 4A - Slope Section BB - Existing Conditions - Static Loading



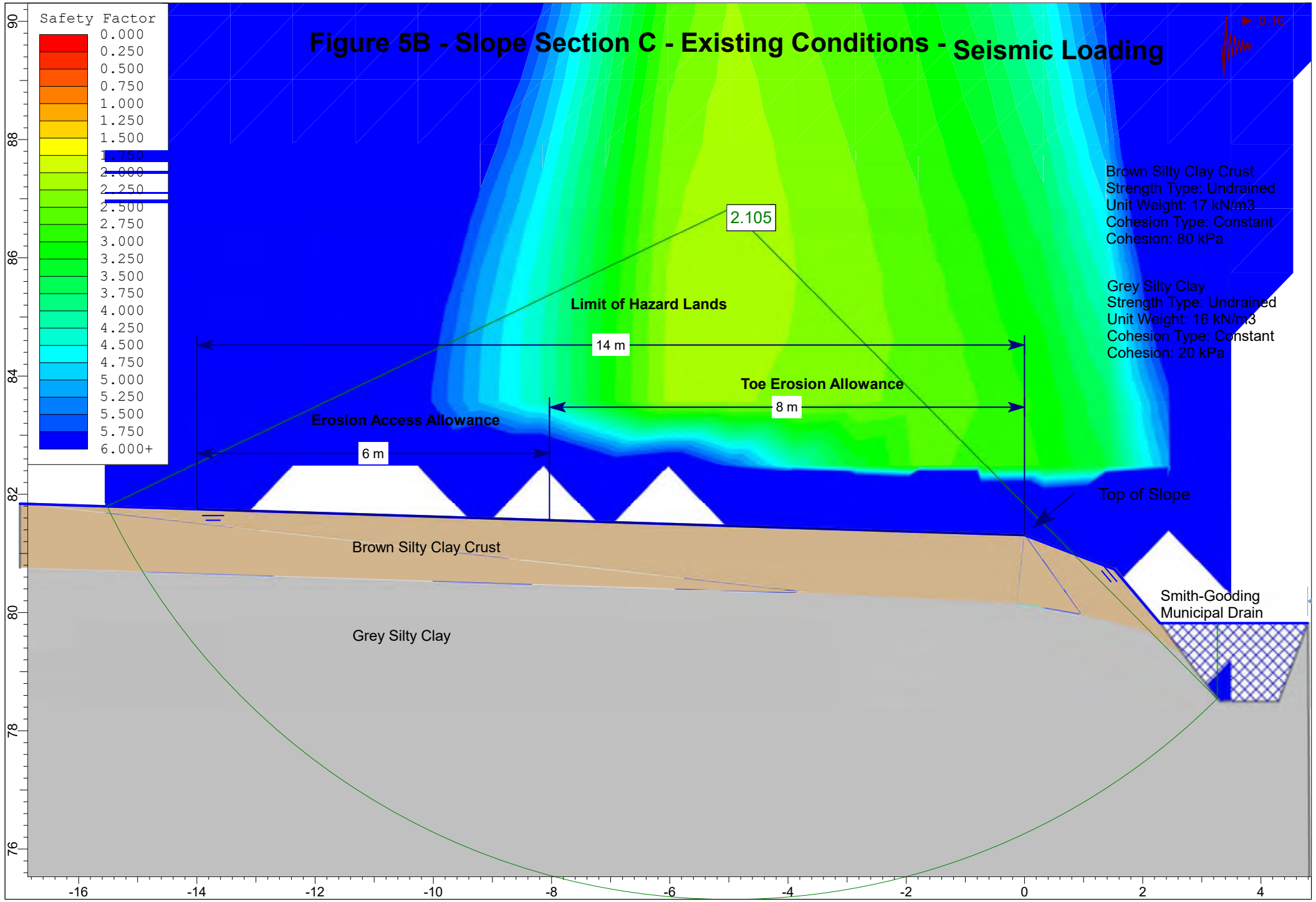
# Figure 4B - Slope Section BB - Existing Conditions - Seismic Loading



# Figure 5A - Slope Section C - Existing Conditions - Static Loading

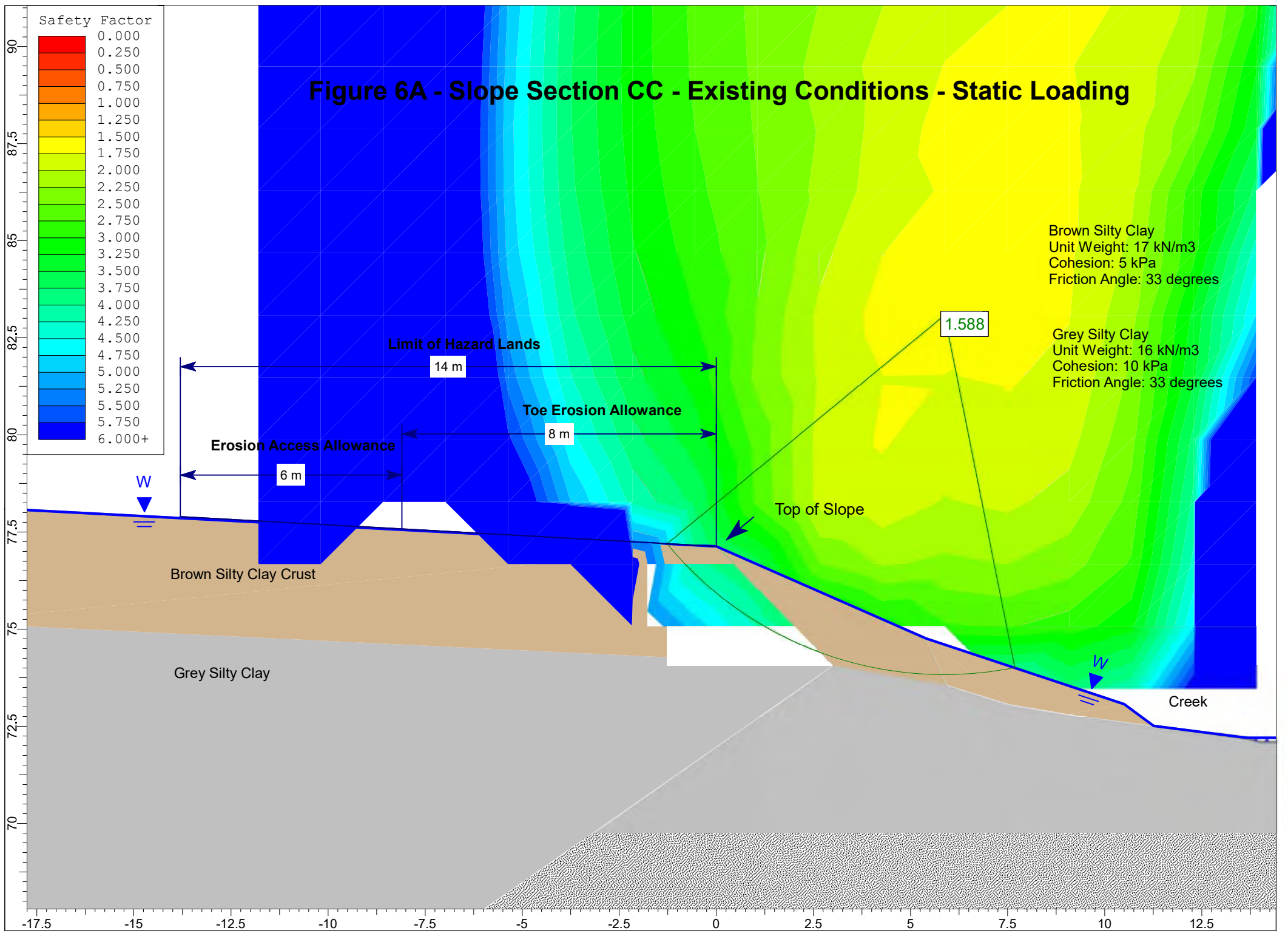


# Figure 5B - Slope Section C - Existing Conditions - Seismic Loading

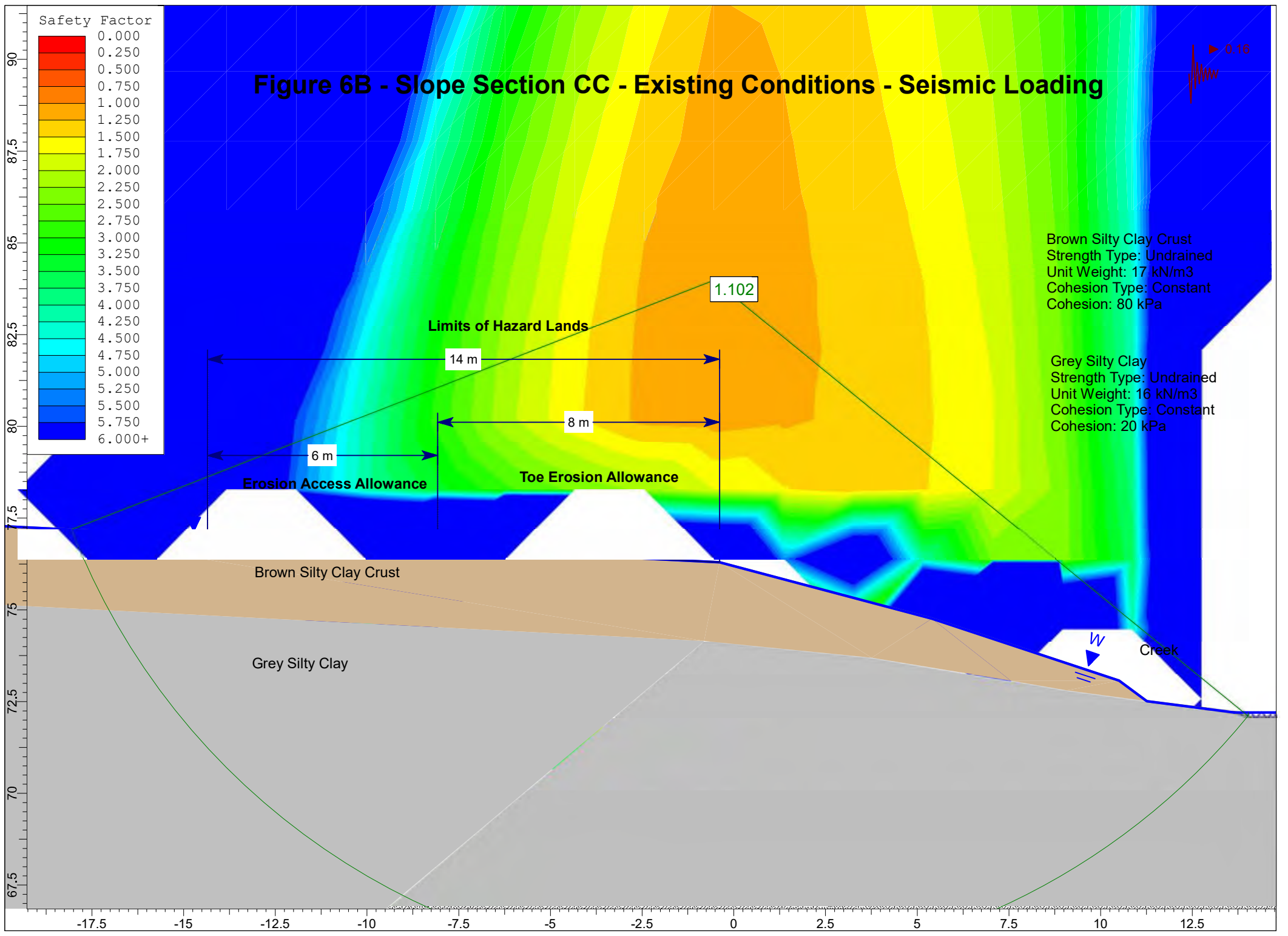




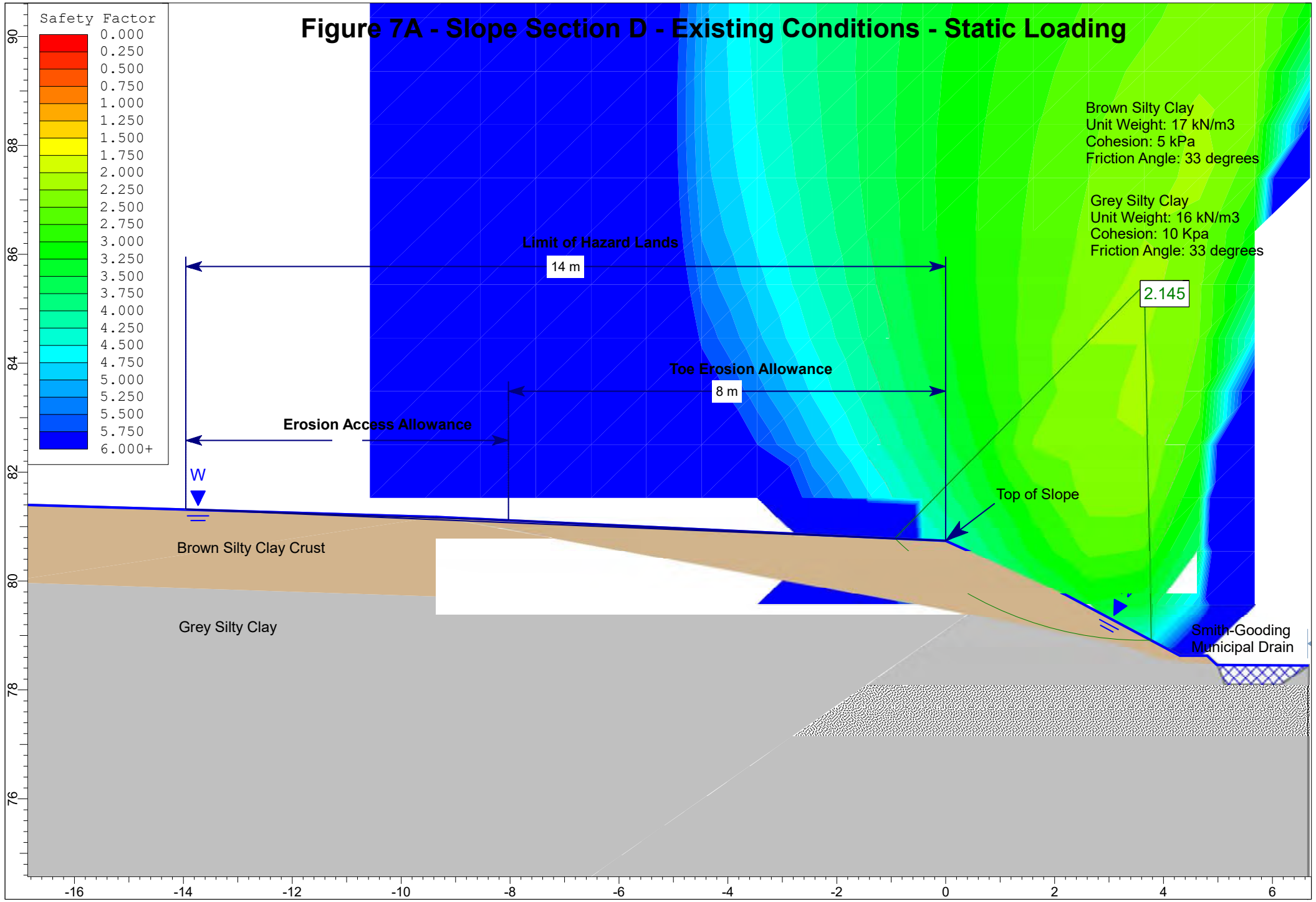
# Figure 6A - Slope Section CC - Existing Conditions - Static Loading



# Figure 6B - Slope Section CC - Existing Conditions - Seismic Loading

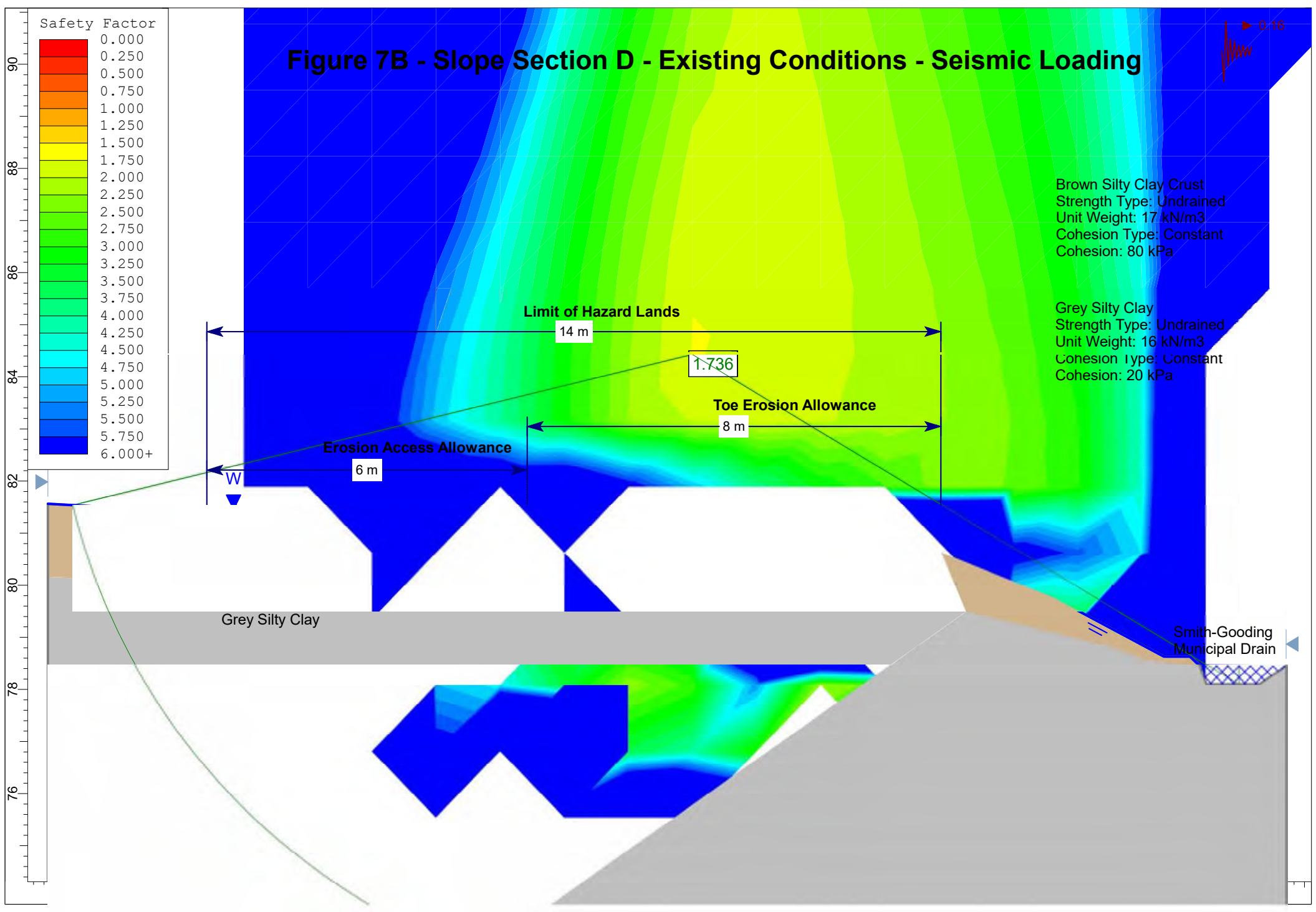


# Figure 7A - Slope Section D - Existing Conditions - Static Loading

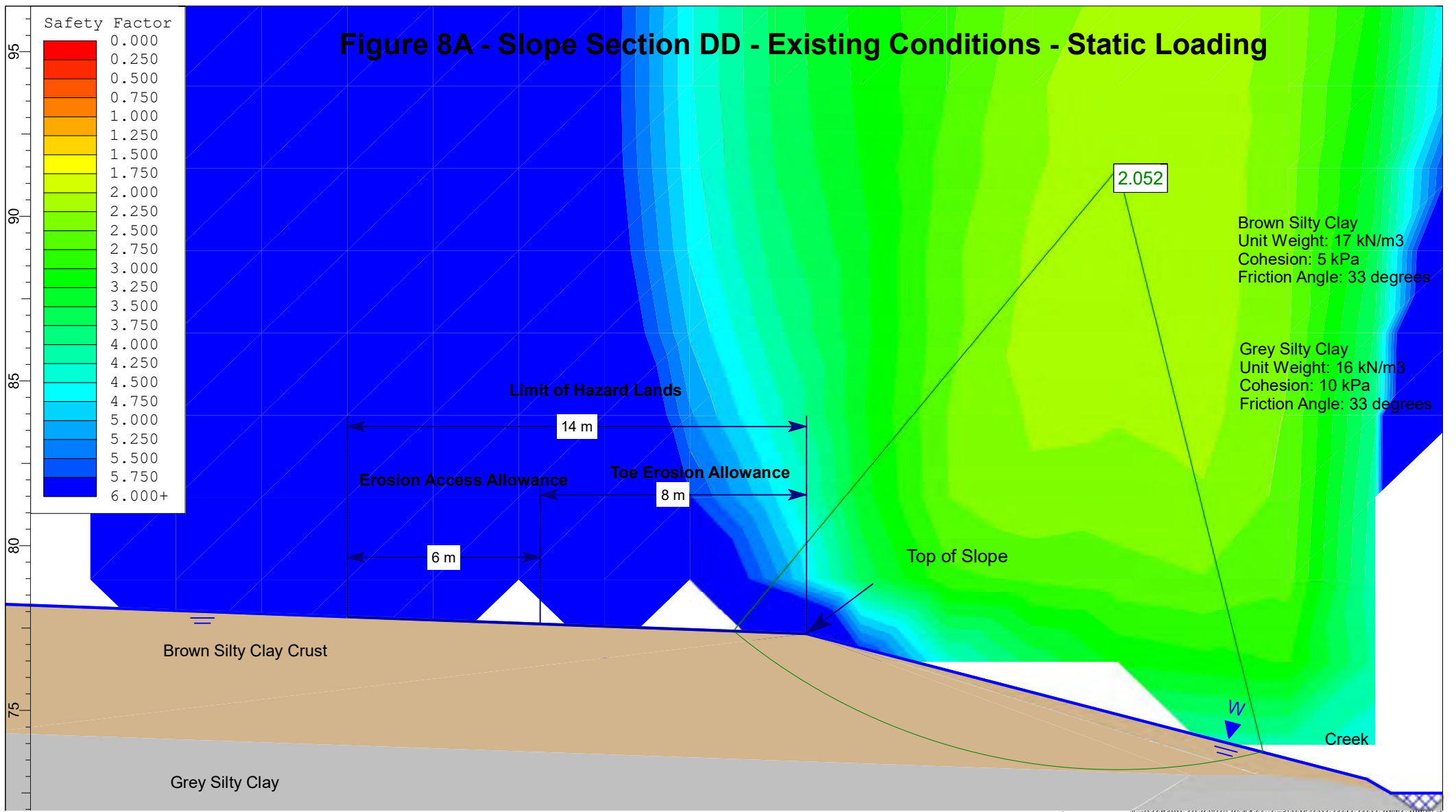




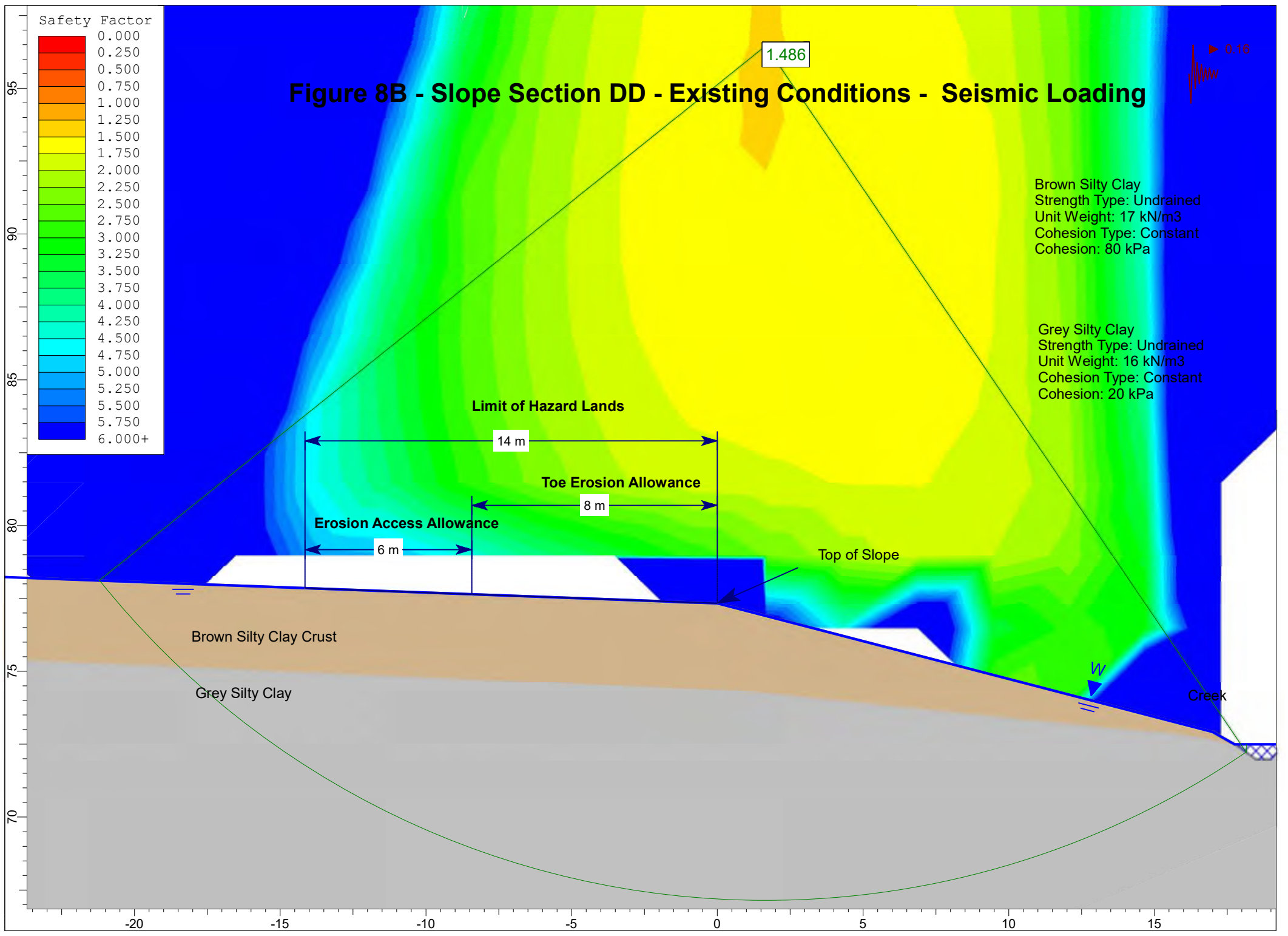
# Figure 7B - Slope Section D - Existing Conditions - Seismic Loading



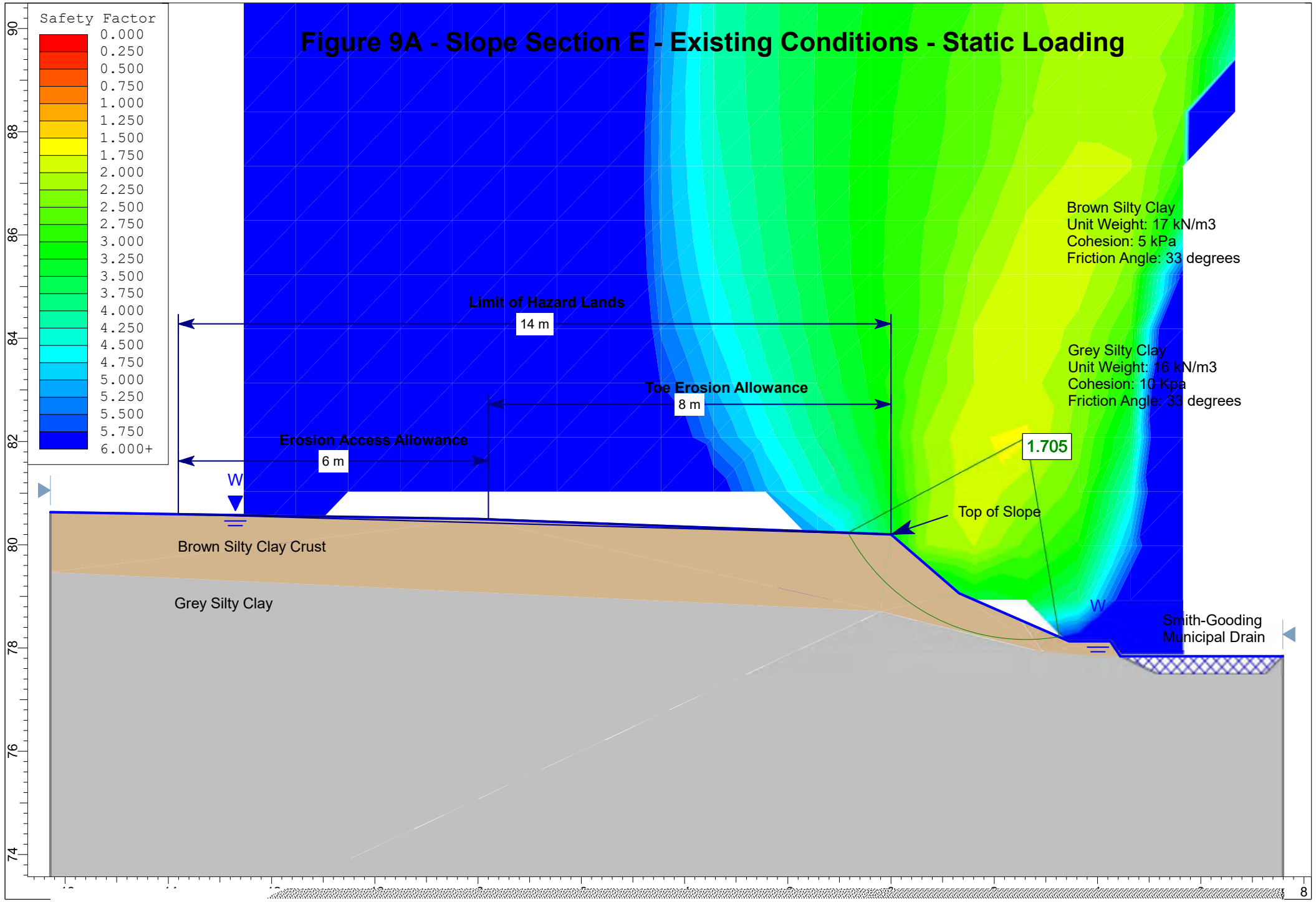
# Figure 8A - Slope Section DD - Existing Conditions - Static Loading



# Figure 8B - Slope Section DD - Existing Conditions - Seismic Loading

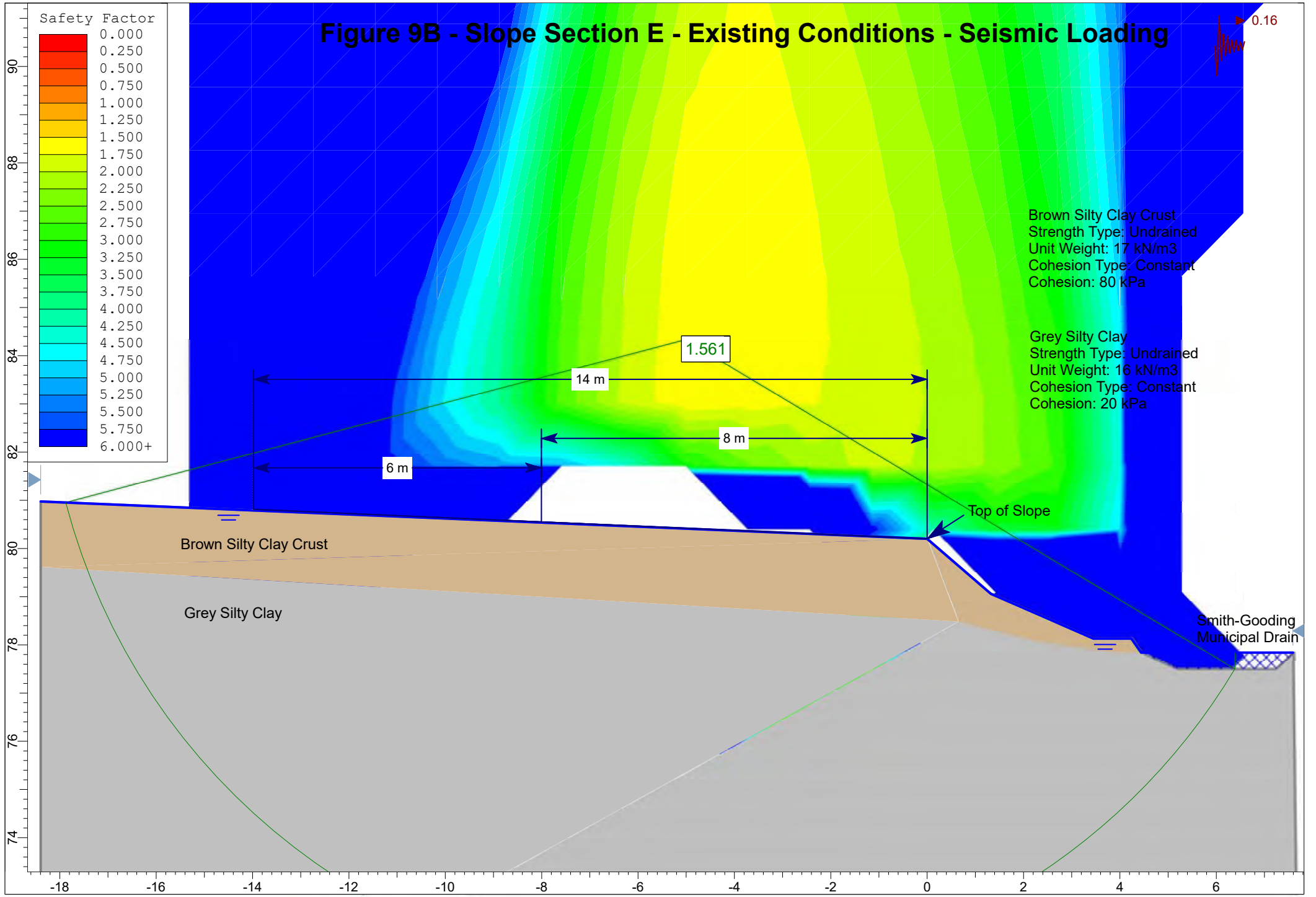


# Figure 9A - Slope Section E - Existing Conditions - Static Loading

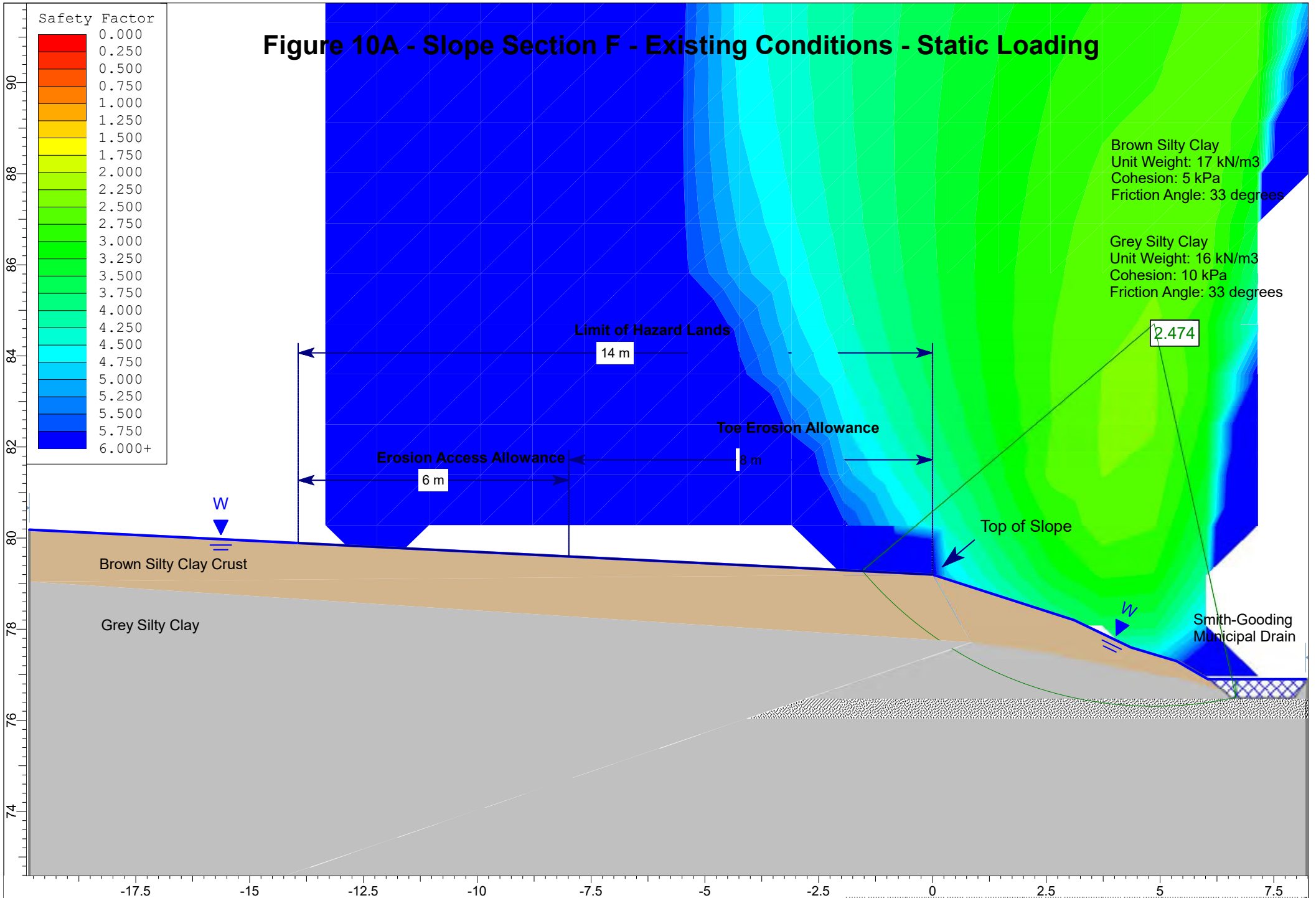




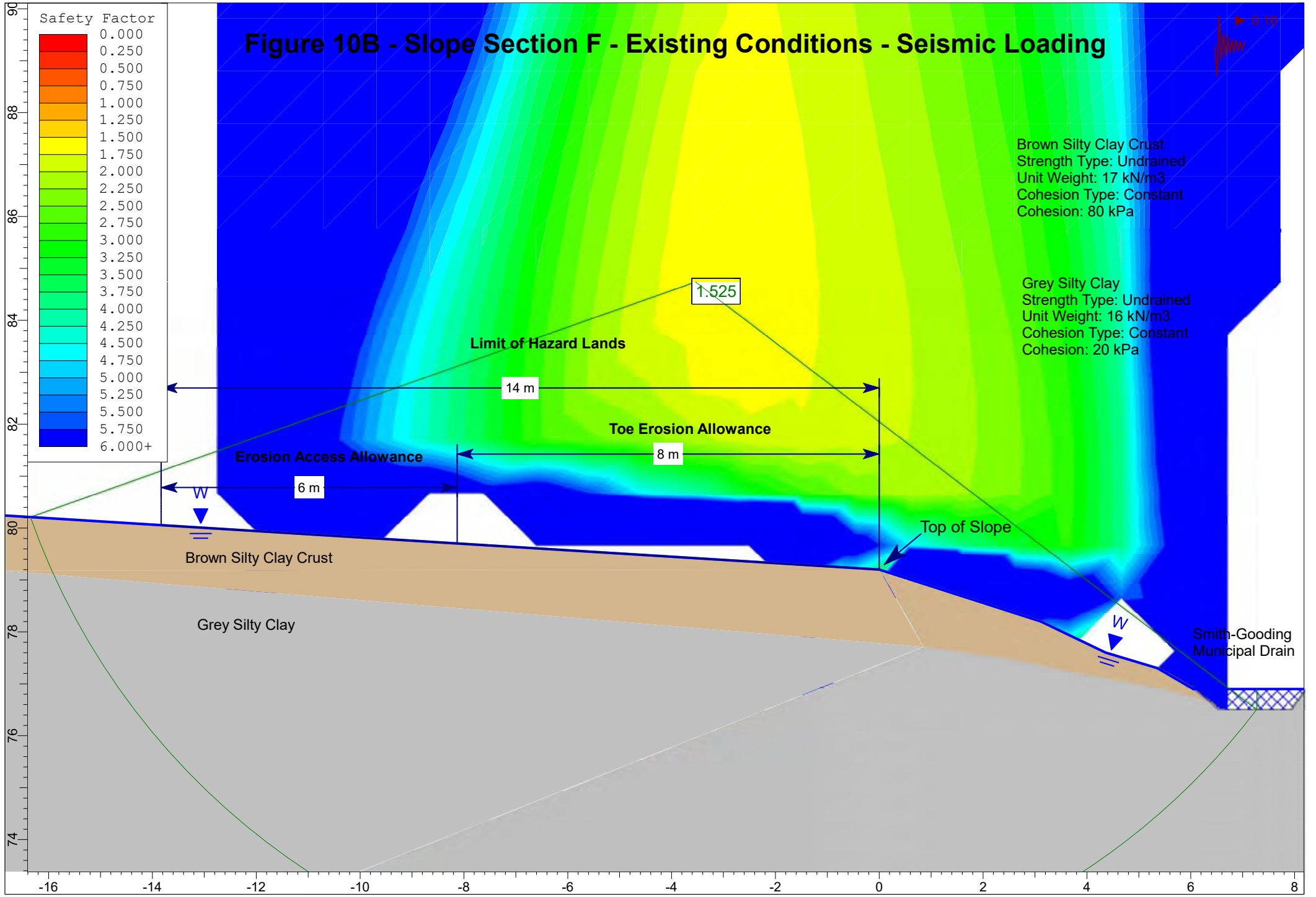
# Figure 9B - Slope Section E - Existing Conditions - Seismic Loading



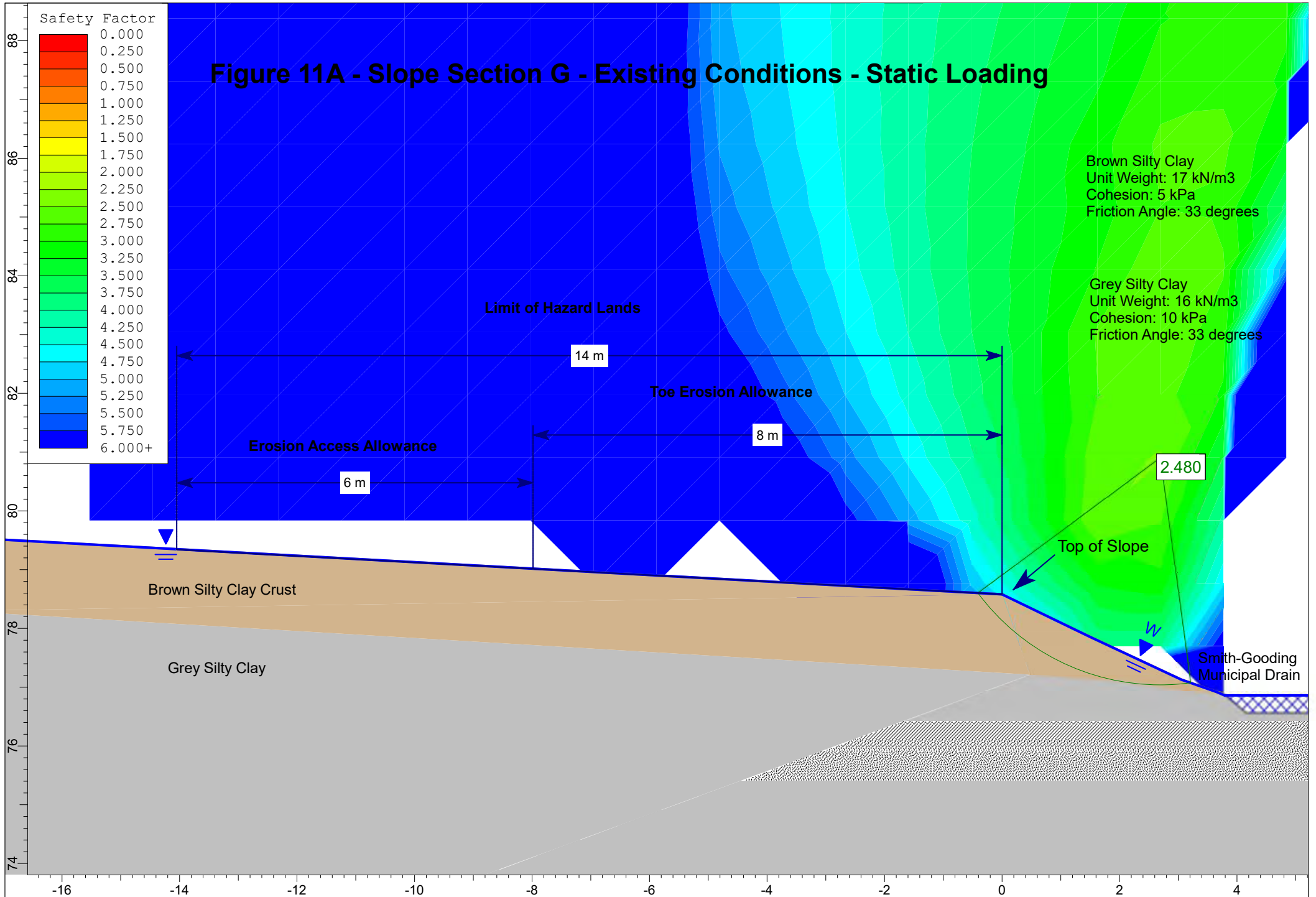
# Figure 10A - Slope Section F - Existing Conditions - Static Loading



# Figure 10B - Slope Section F - Existing Conditions - Seismic Loading

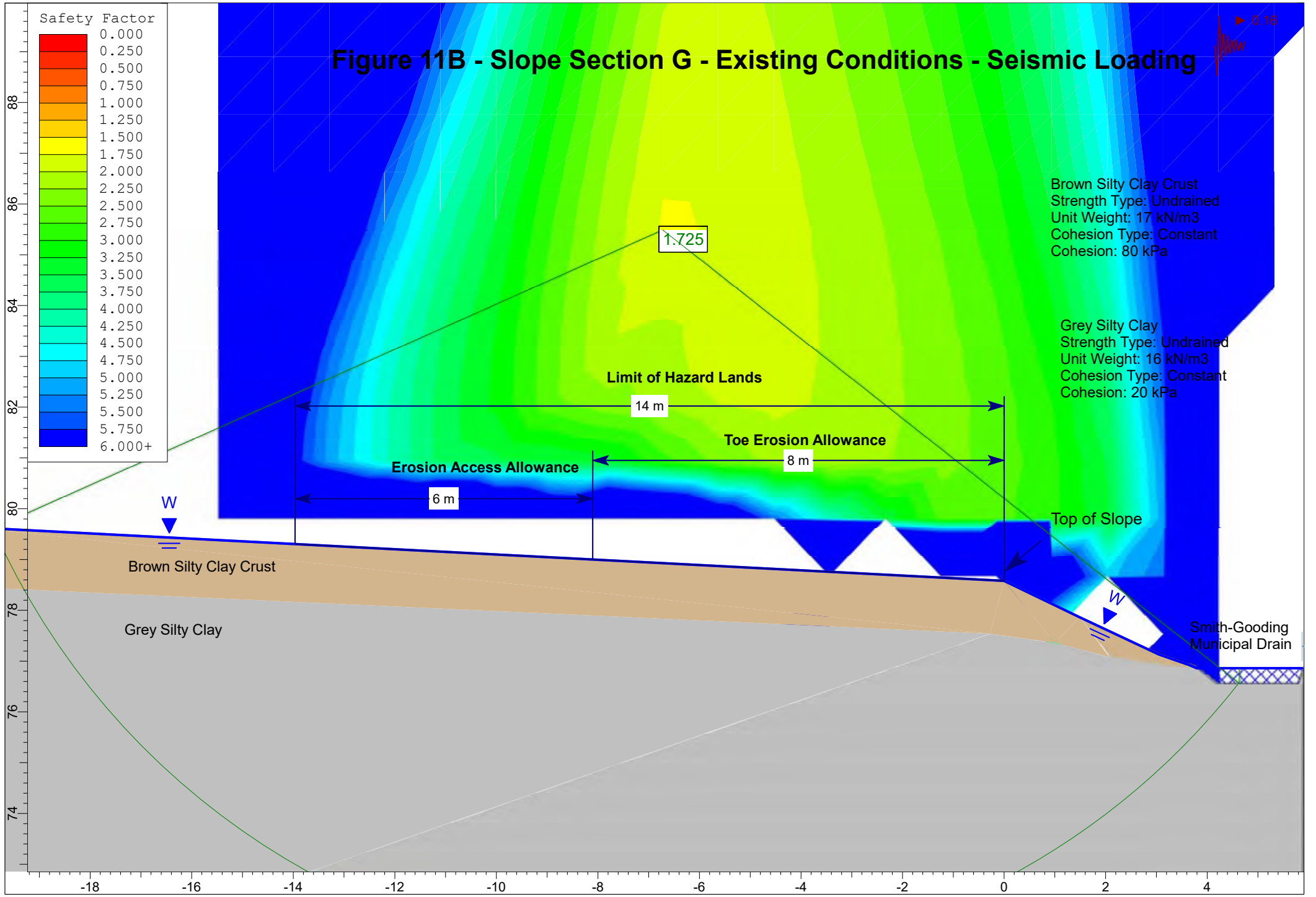


# Figure 11A - Slope Section G - Existing Conditions - Static Loading

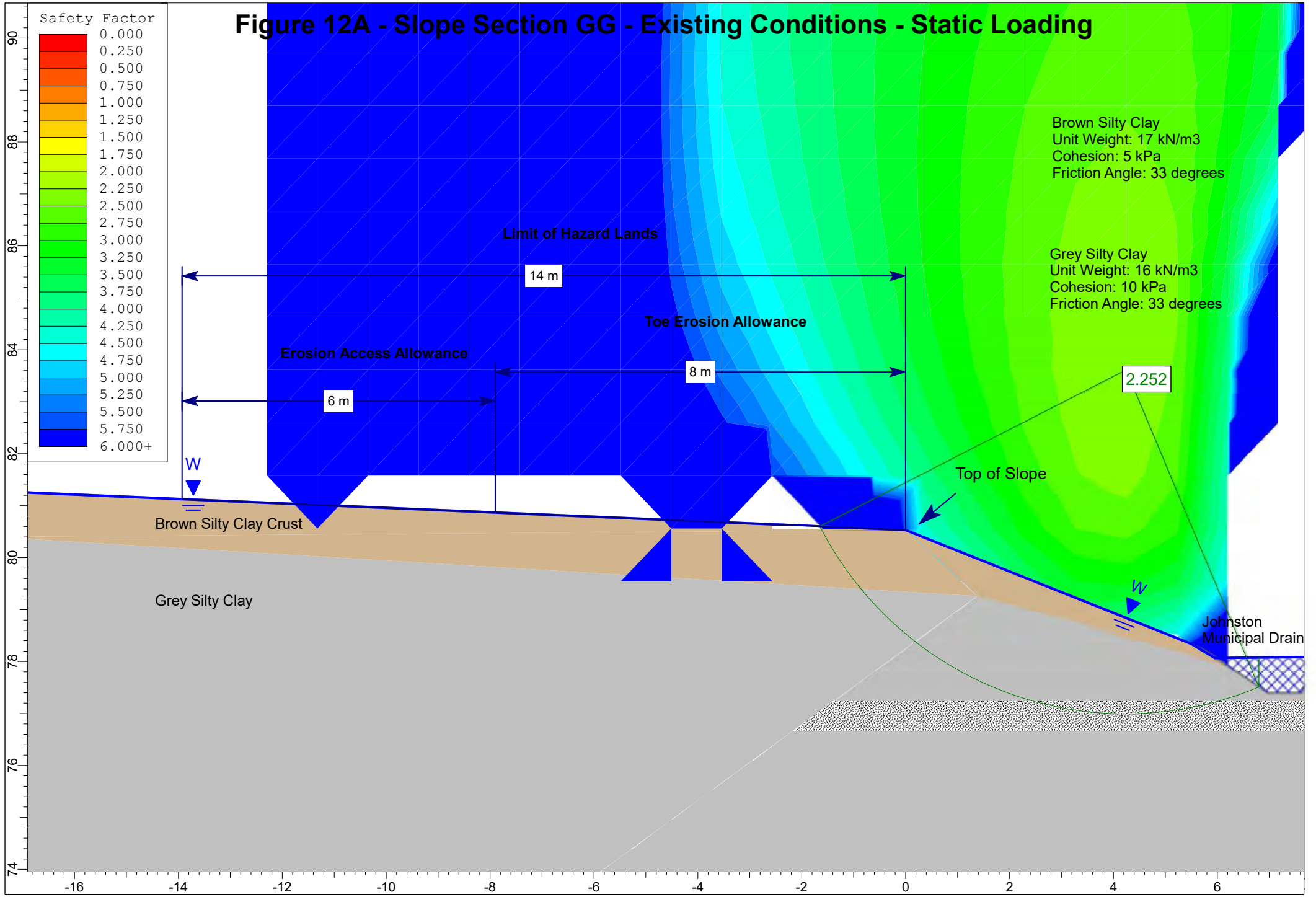




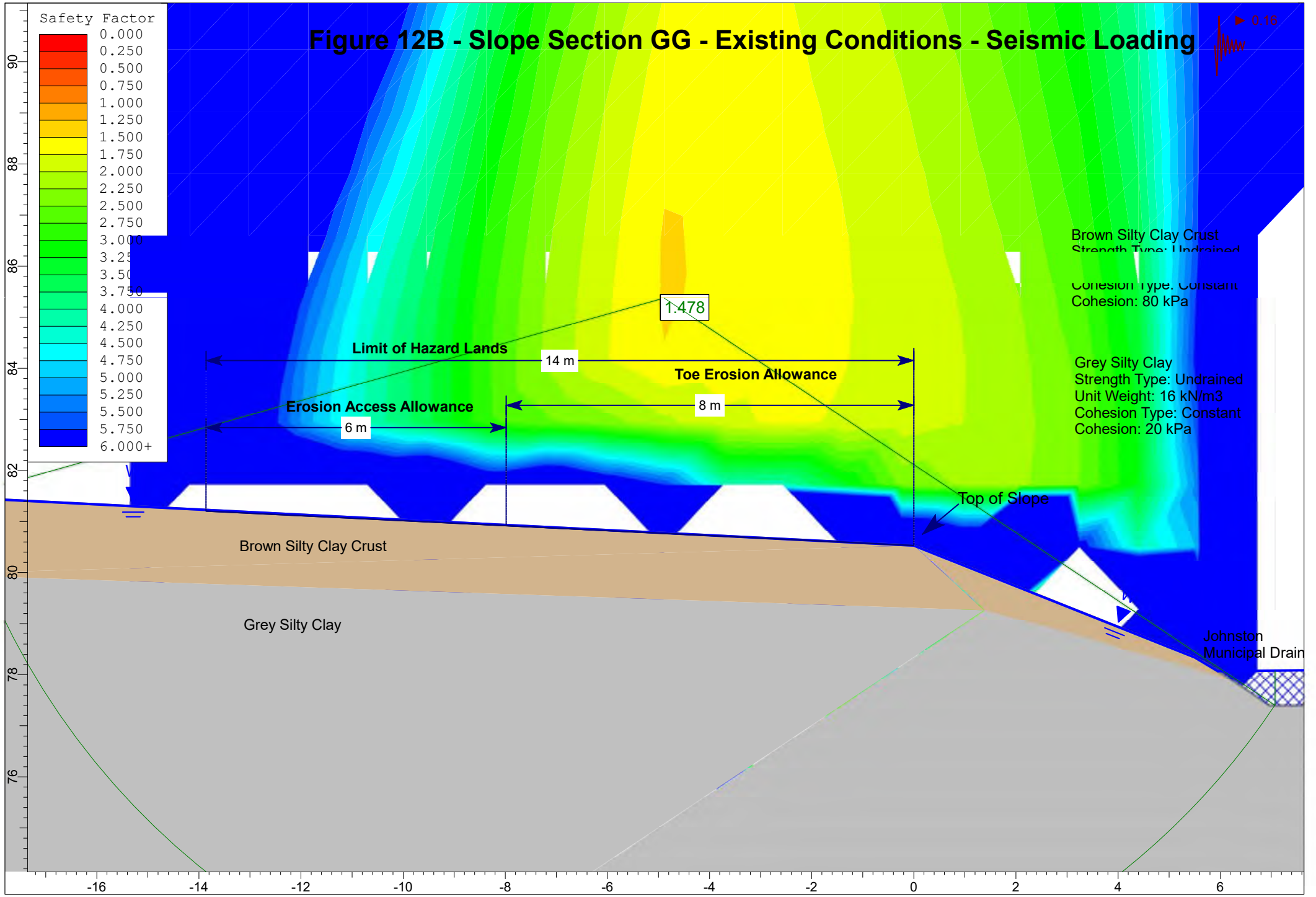
# Figure 11B - Slope Section G - Existing Conditions - Seismic Loading



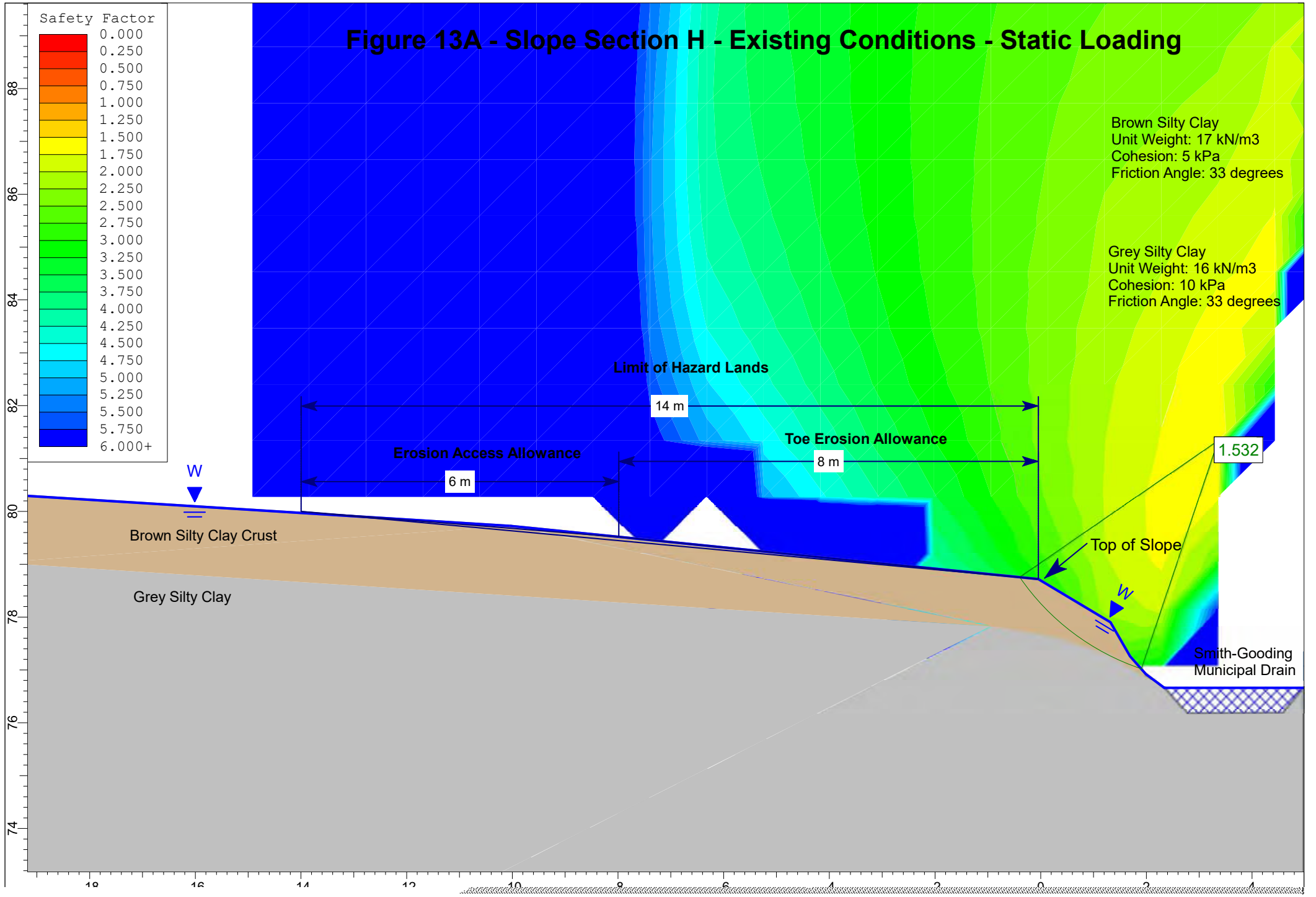
# Figure 12A - Slope Section GG - Existing Conditions - Static Loading



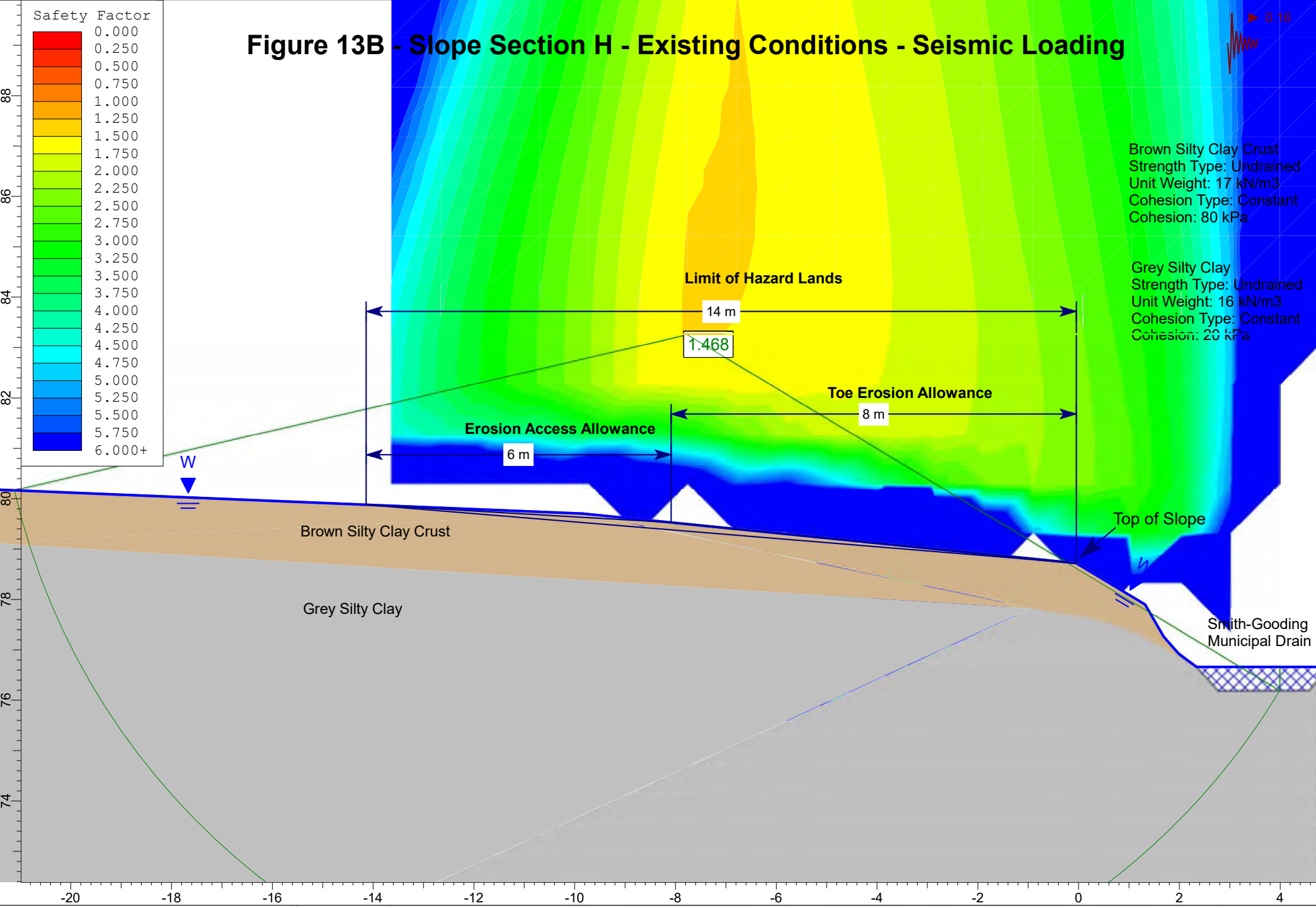
# Figure 12B - Slope Section GG - Existing Conditions - Seismic Loading



# Figure 13A - Slope Section H - Existing Conditions - Static Loading

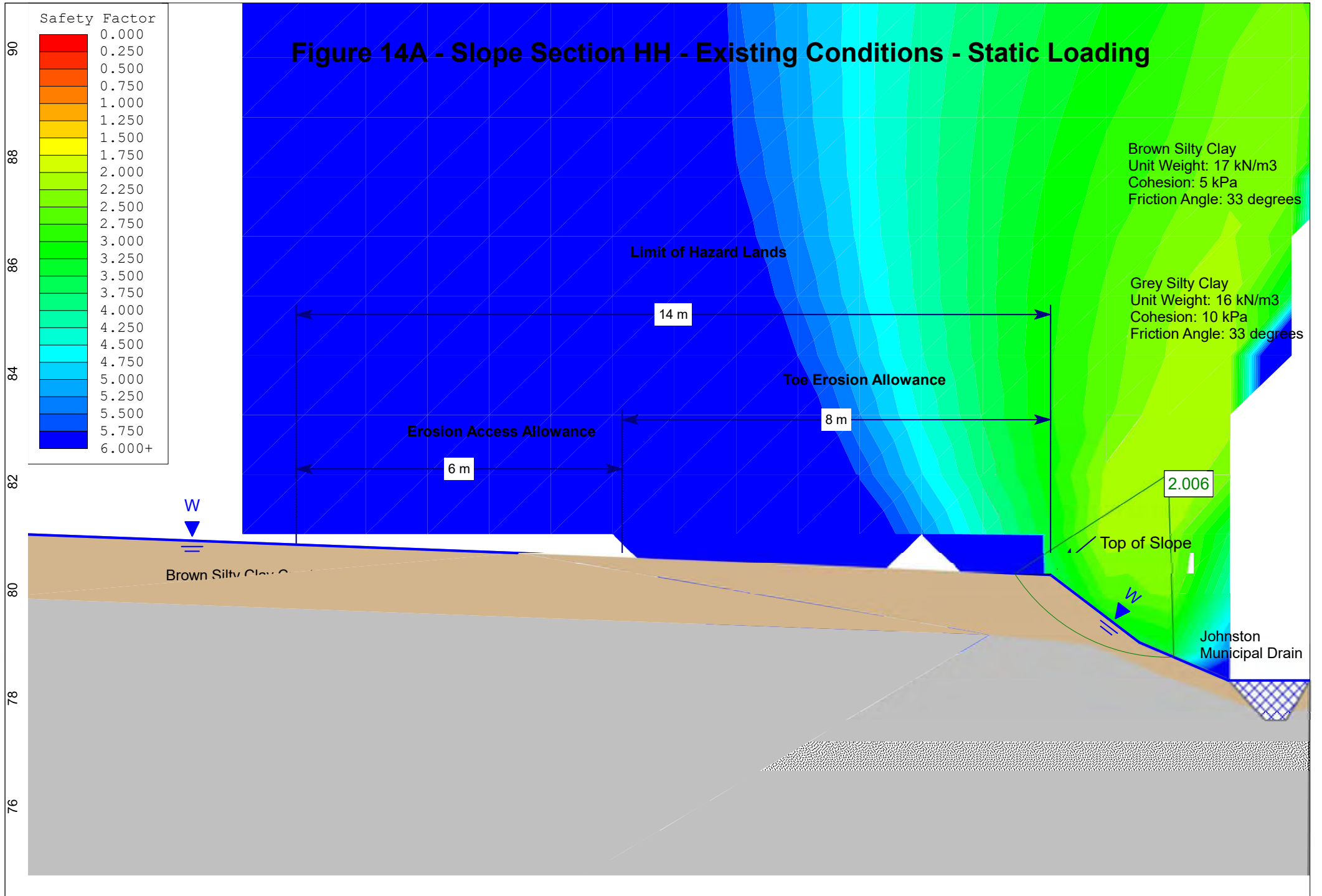


**Figure 13B - Slope Section H - Existing Conditions - Seismic Loading**

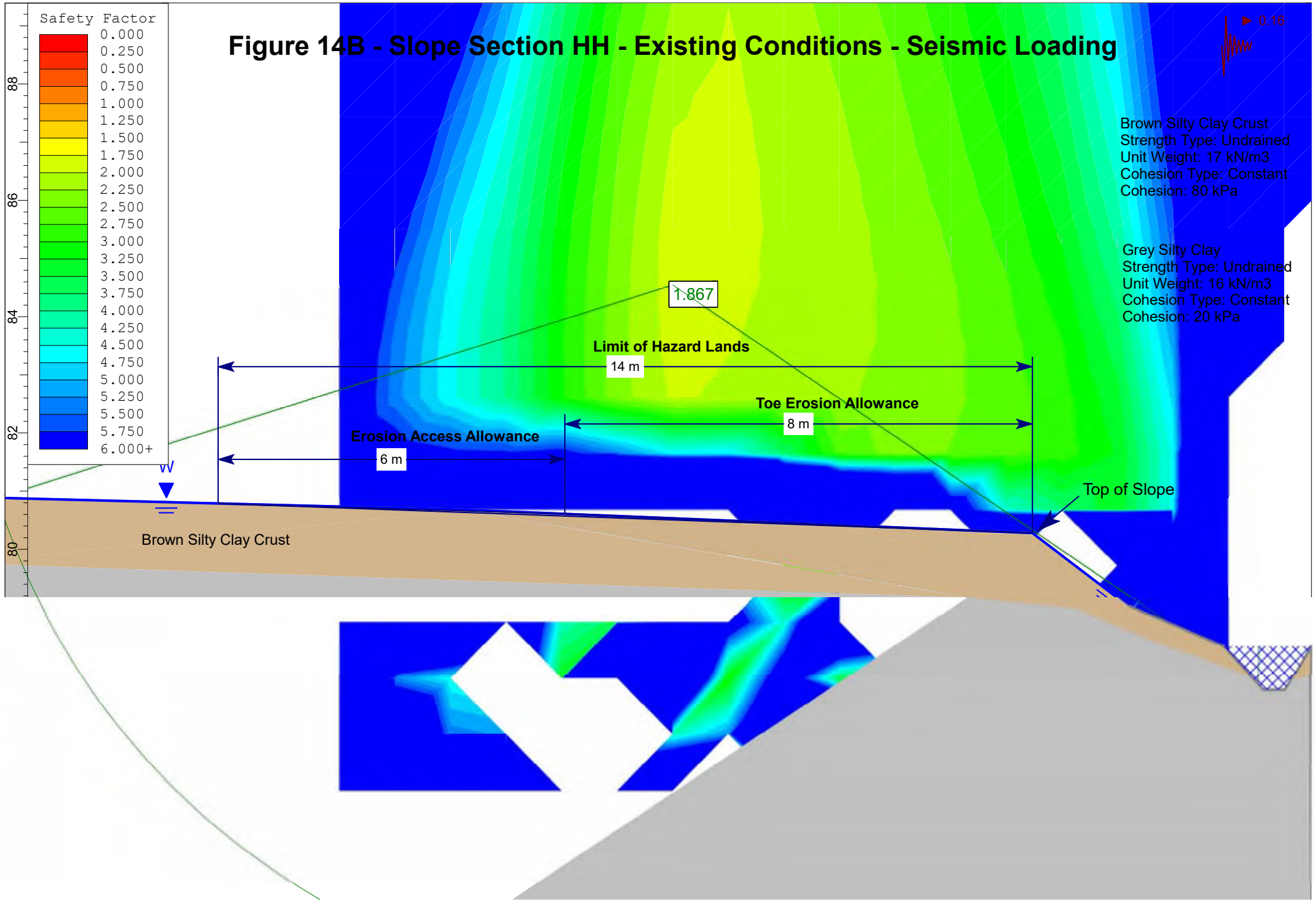




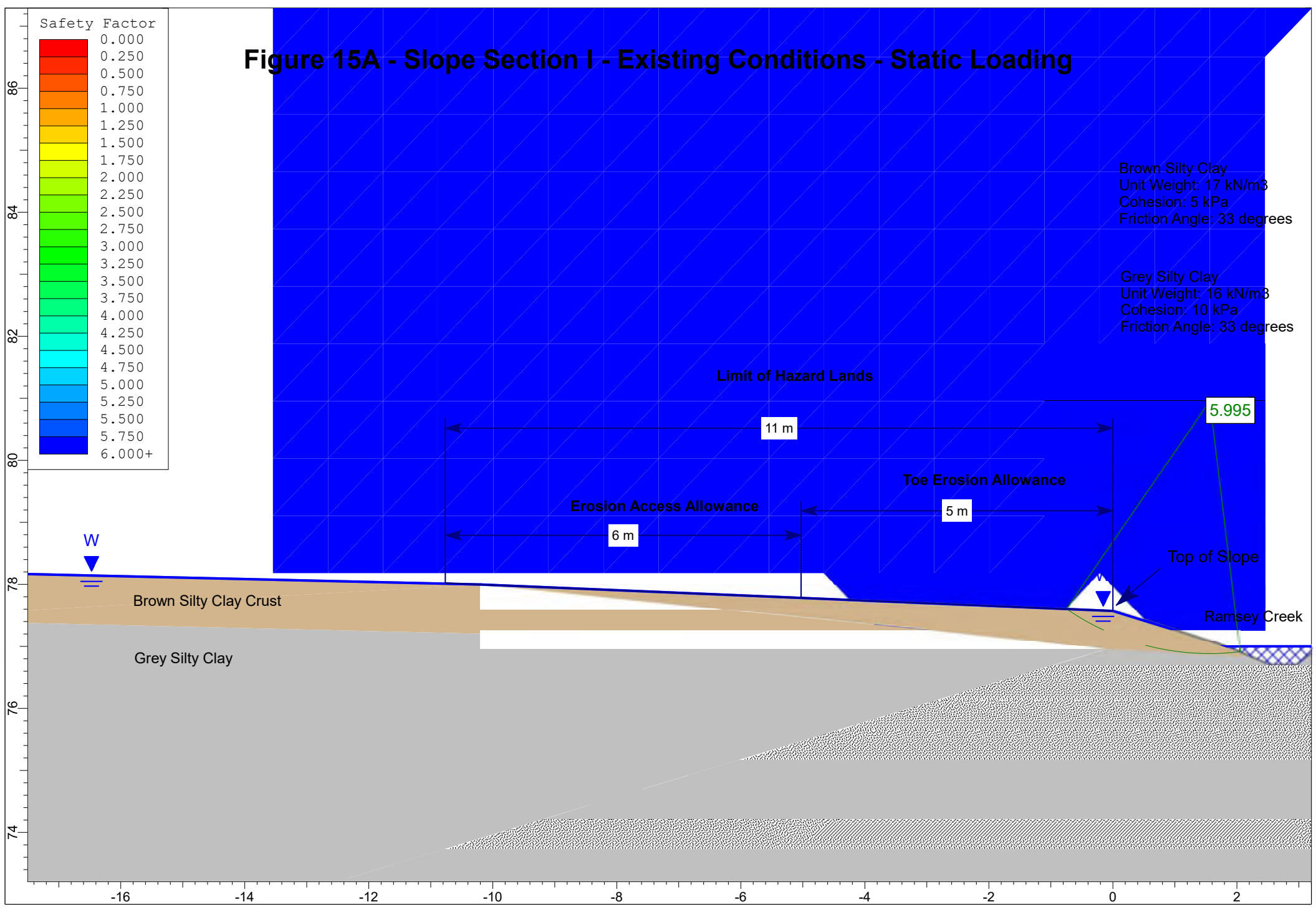
# Figure 14A - Slope Section HH - Existing Conditions - Static Loading



# Figure 14B - Slope Section HH - Existing Conditions - Seismic Loading

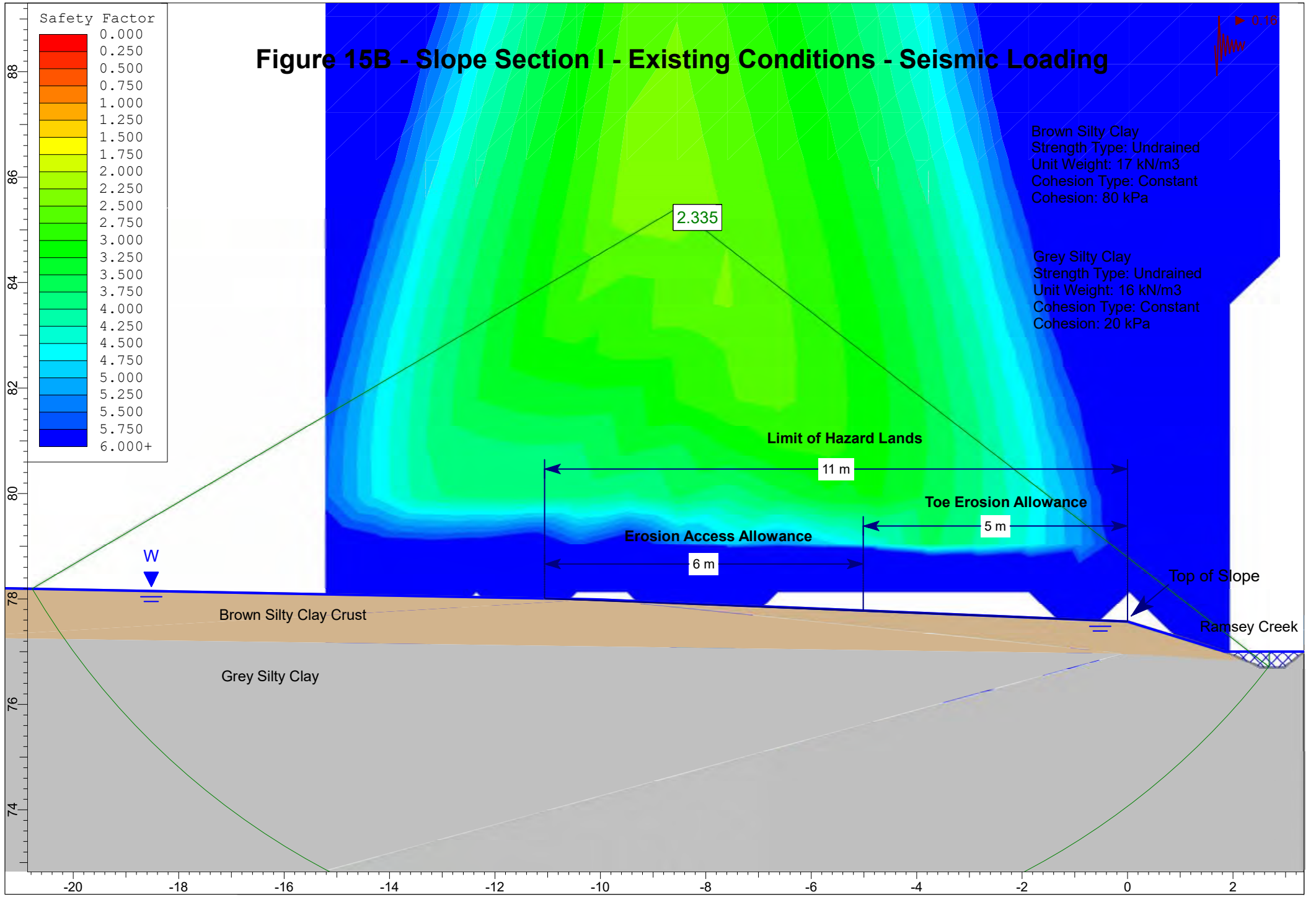


# Figure 15A - Slope Section I - Existing Conditions - Static Loading

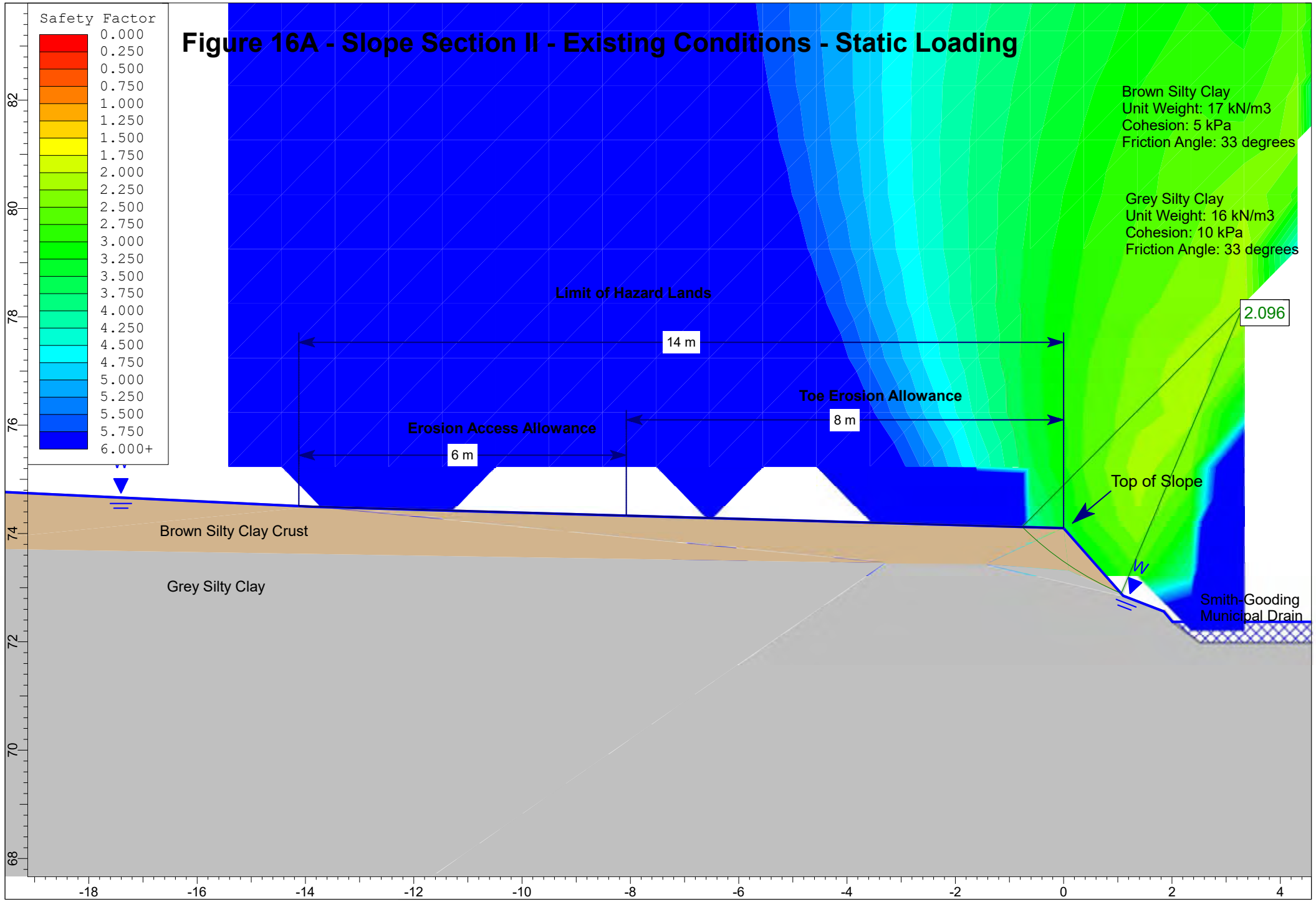




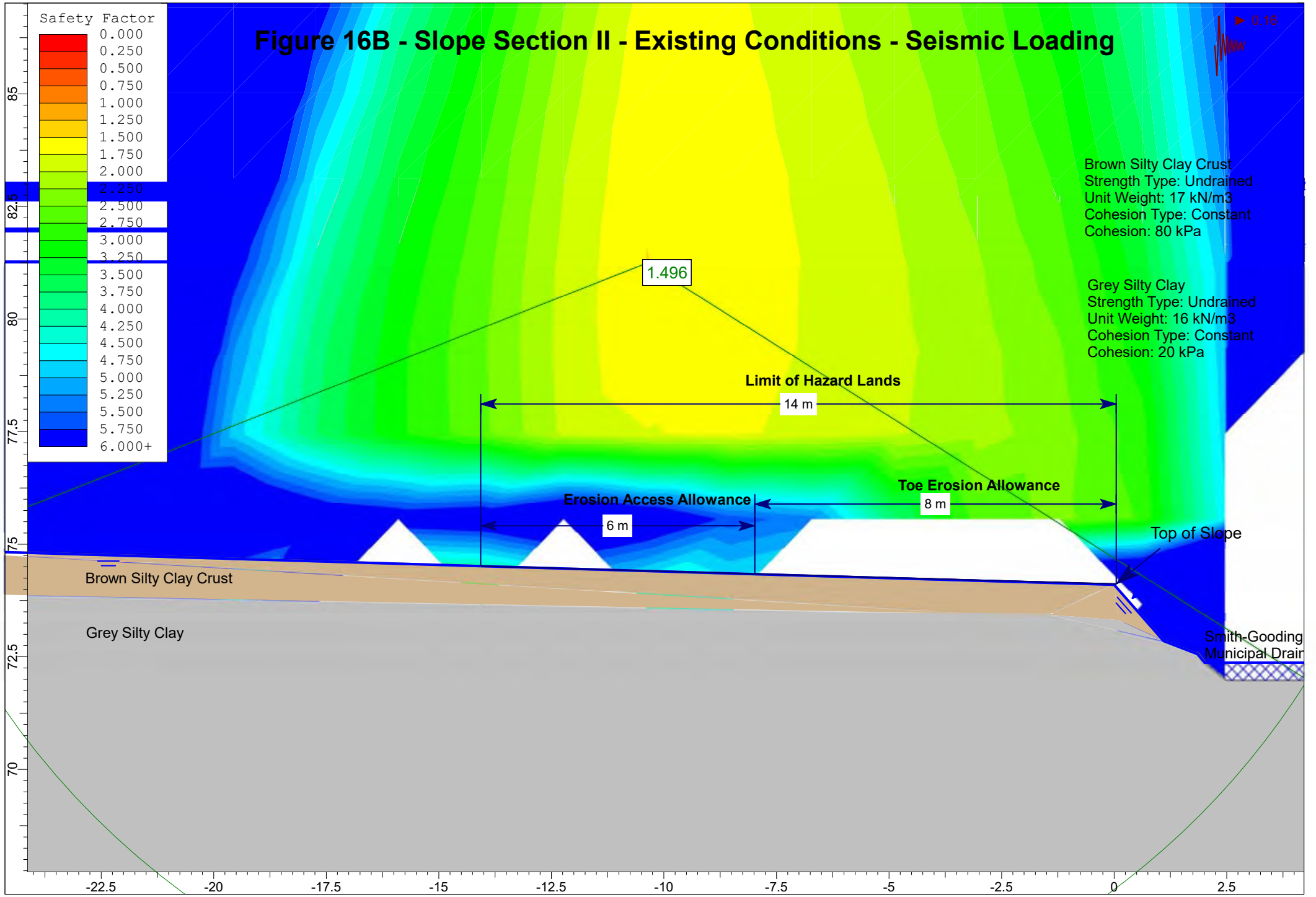
# Figure 15B - Slope Section I - Existing Conditions - Seismic Loading



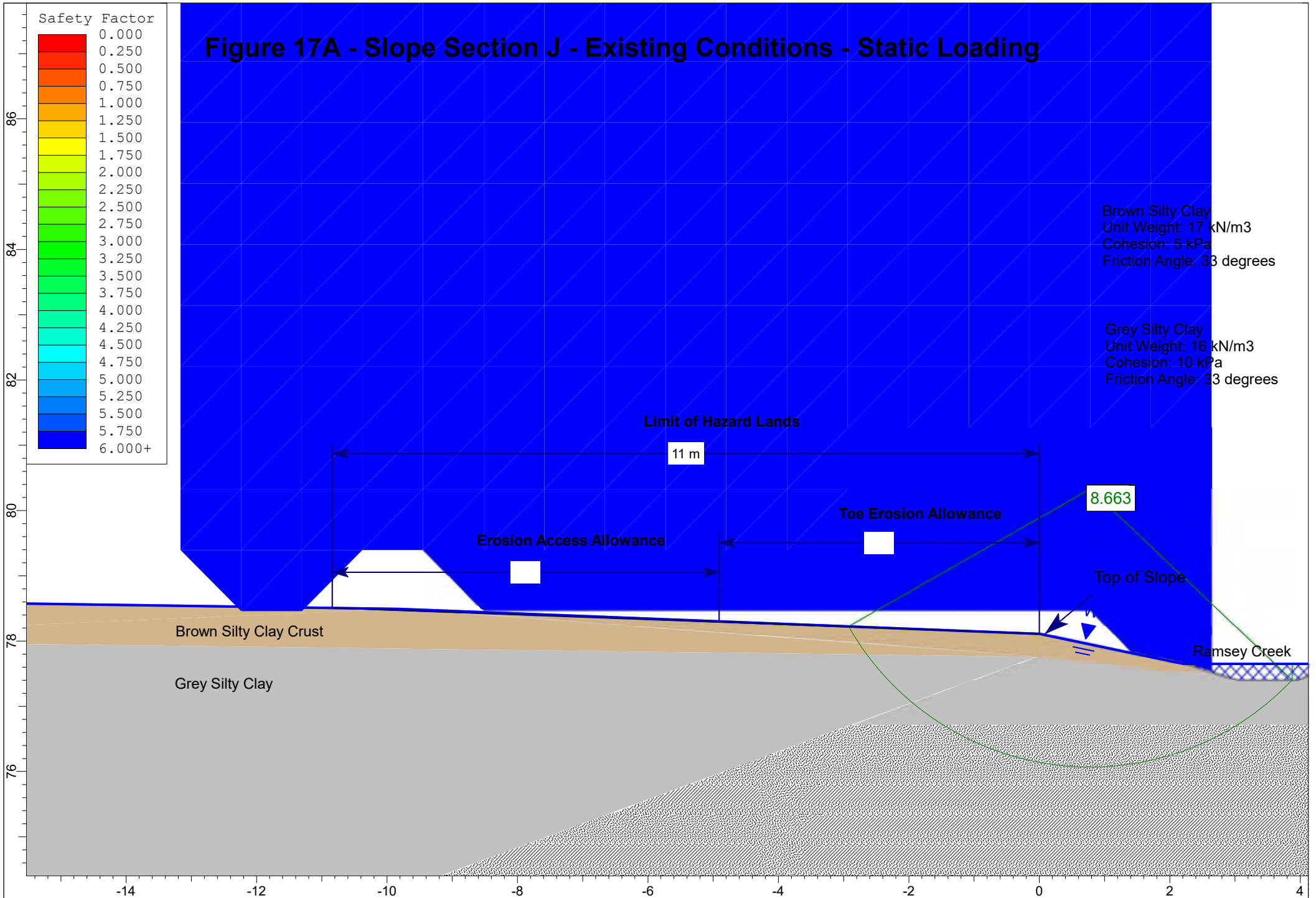
# Figure 16A - Slope Section II - Existing Conditions - Static Loading



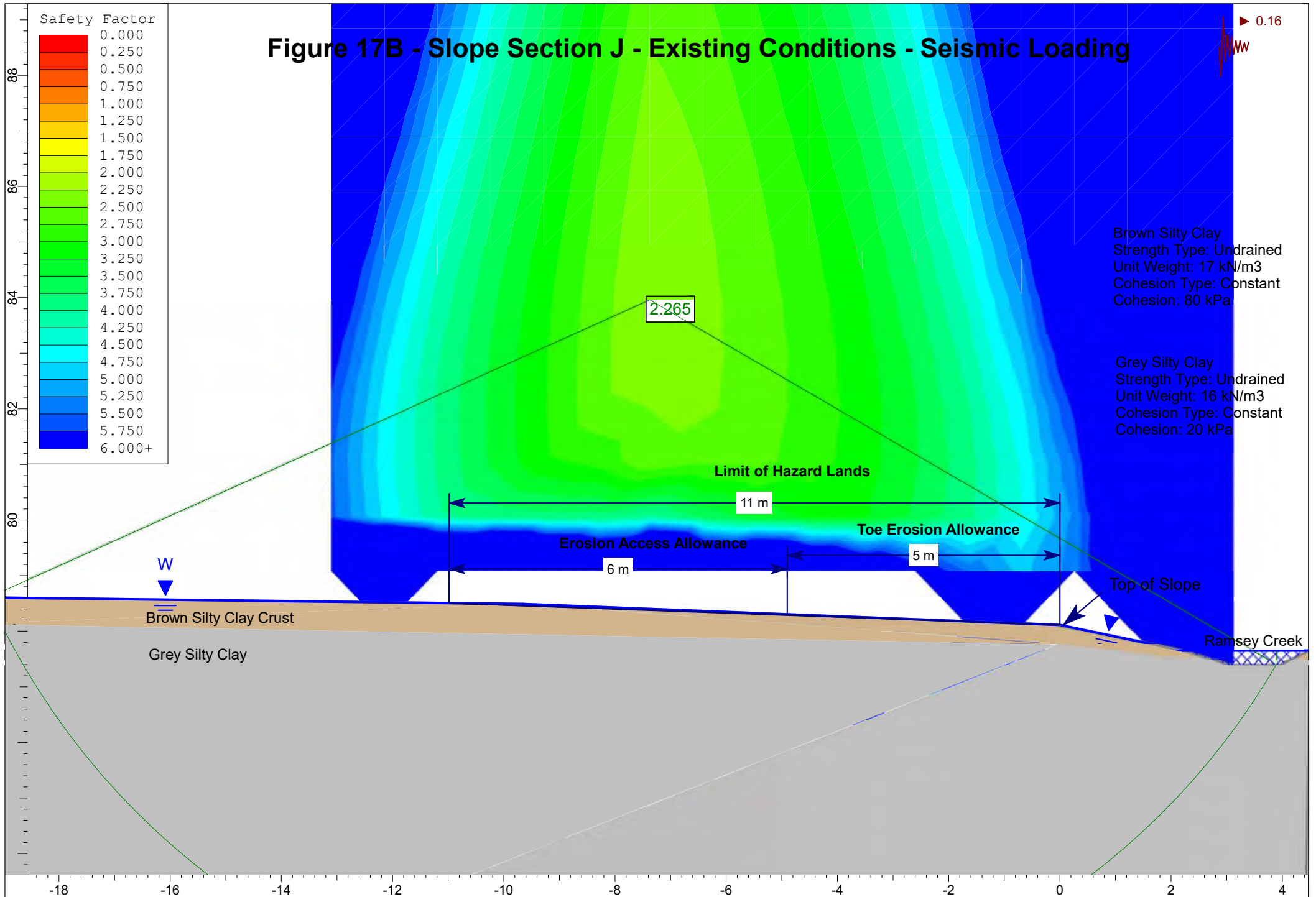
# Figure 16B - Slope Section II - Existing Conditions - Seismic Loading



# Figure 17A - Slope Section J - Existing Conditions - Static Loading

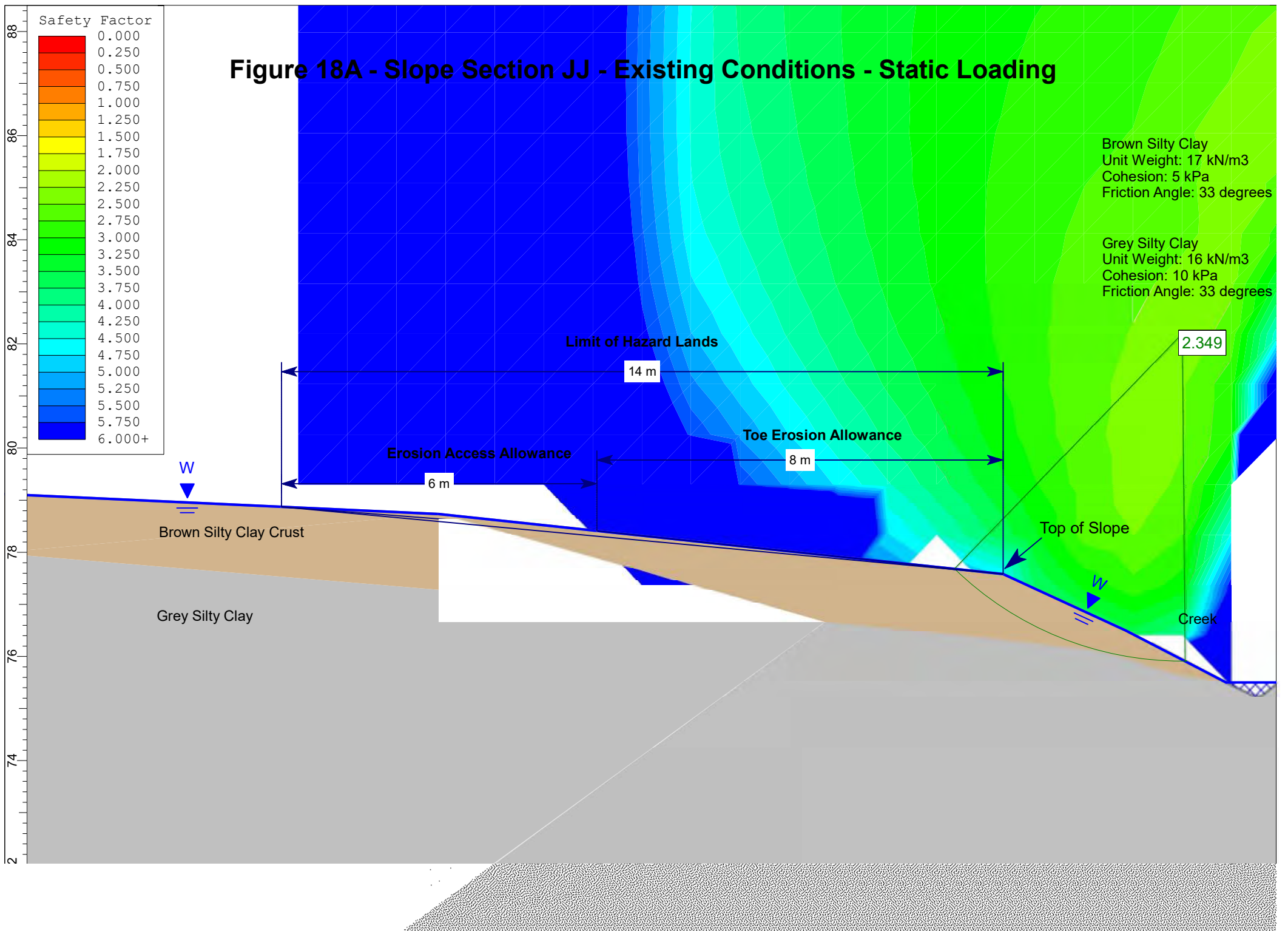


# Figure 17B - Slope Section J - Existing Conditions - Seismic Loading

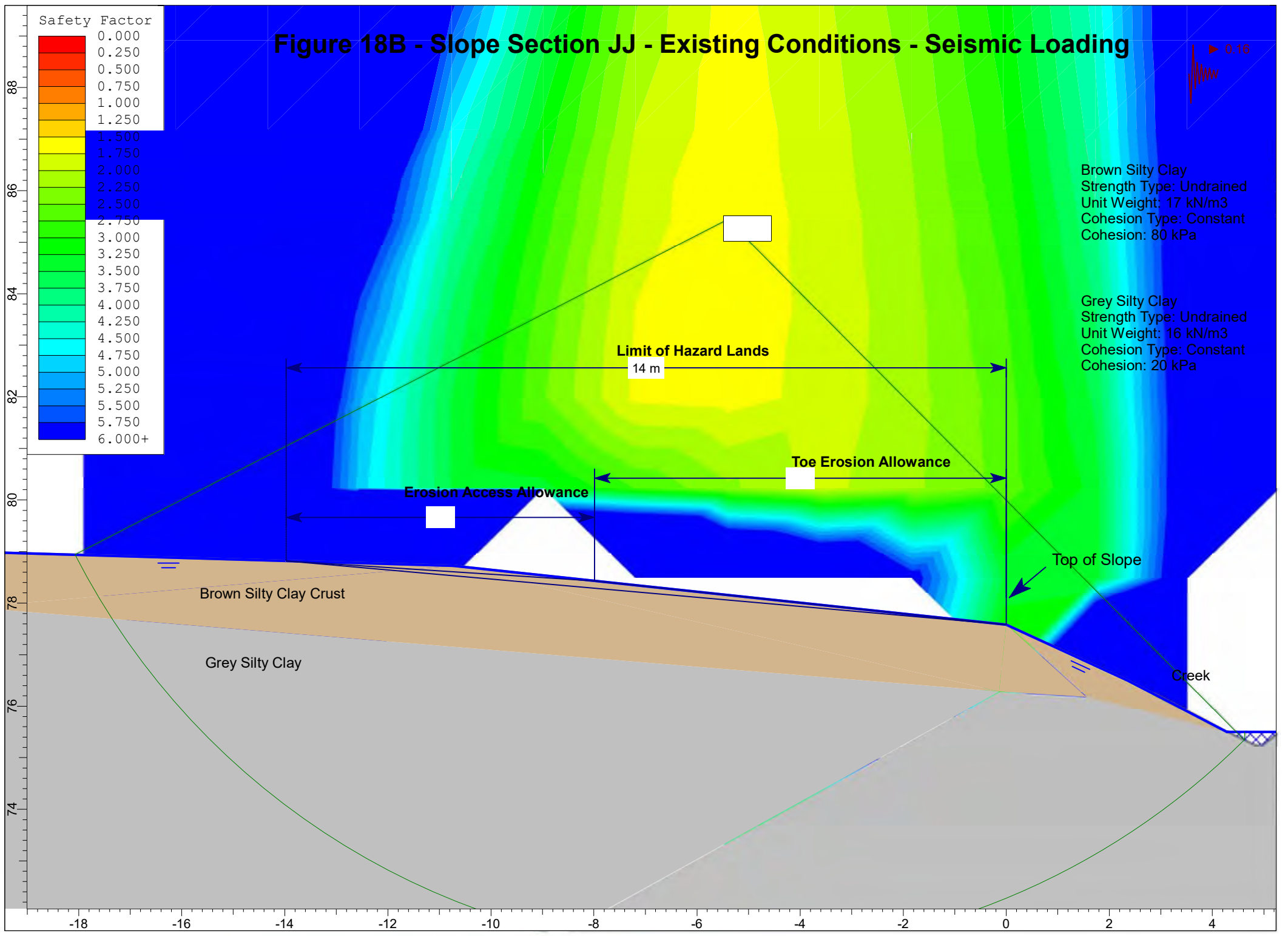




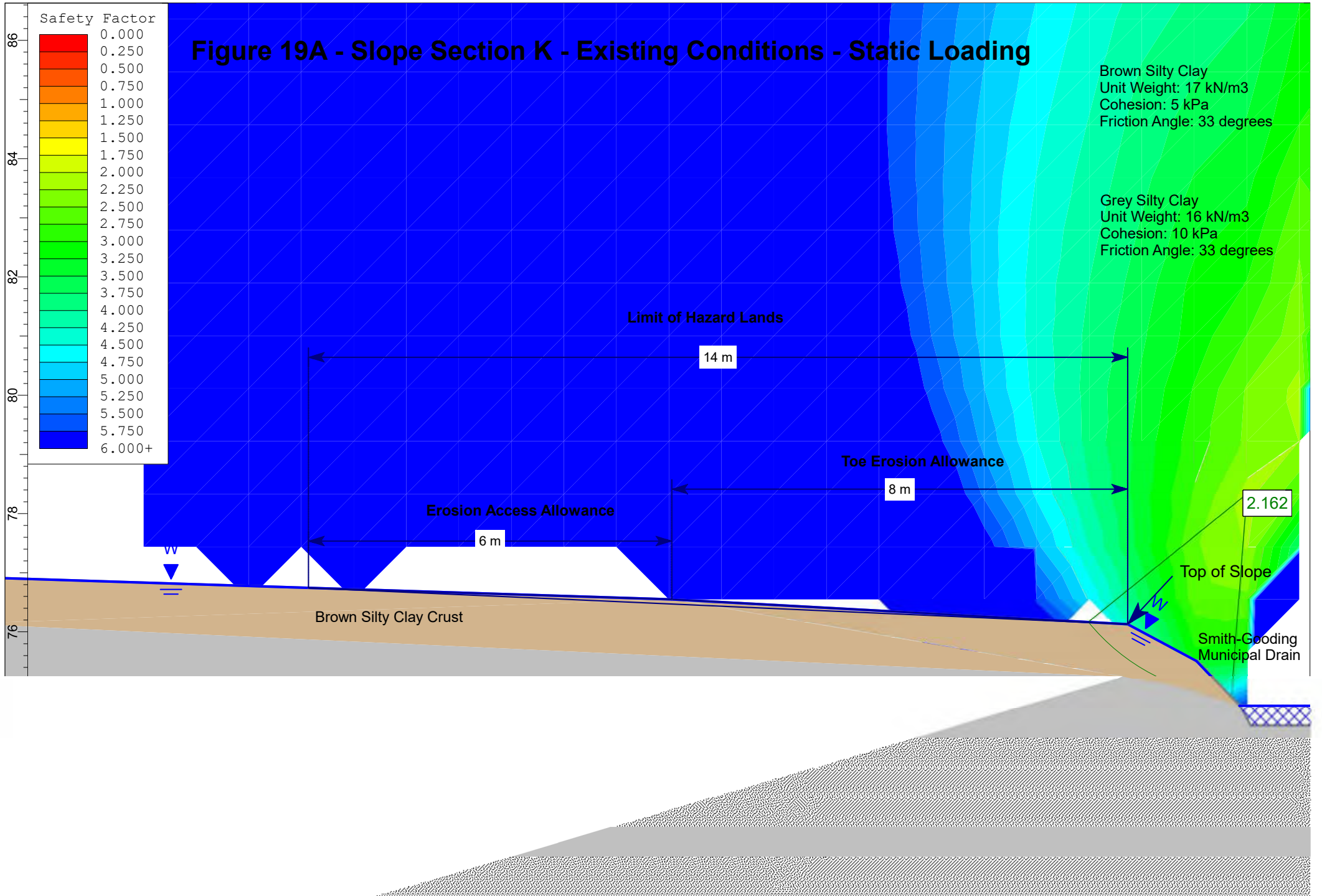
# Figure 18A - Slope Section JJ - Existing Conditions - Static Loading



# Figure 18B - Slope Section JJ - Existing Conditions - Seismic Loading

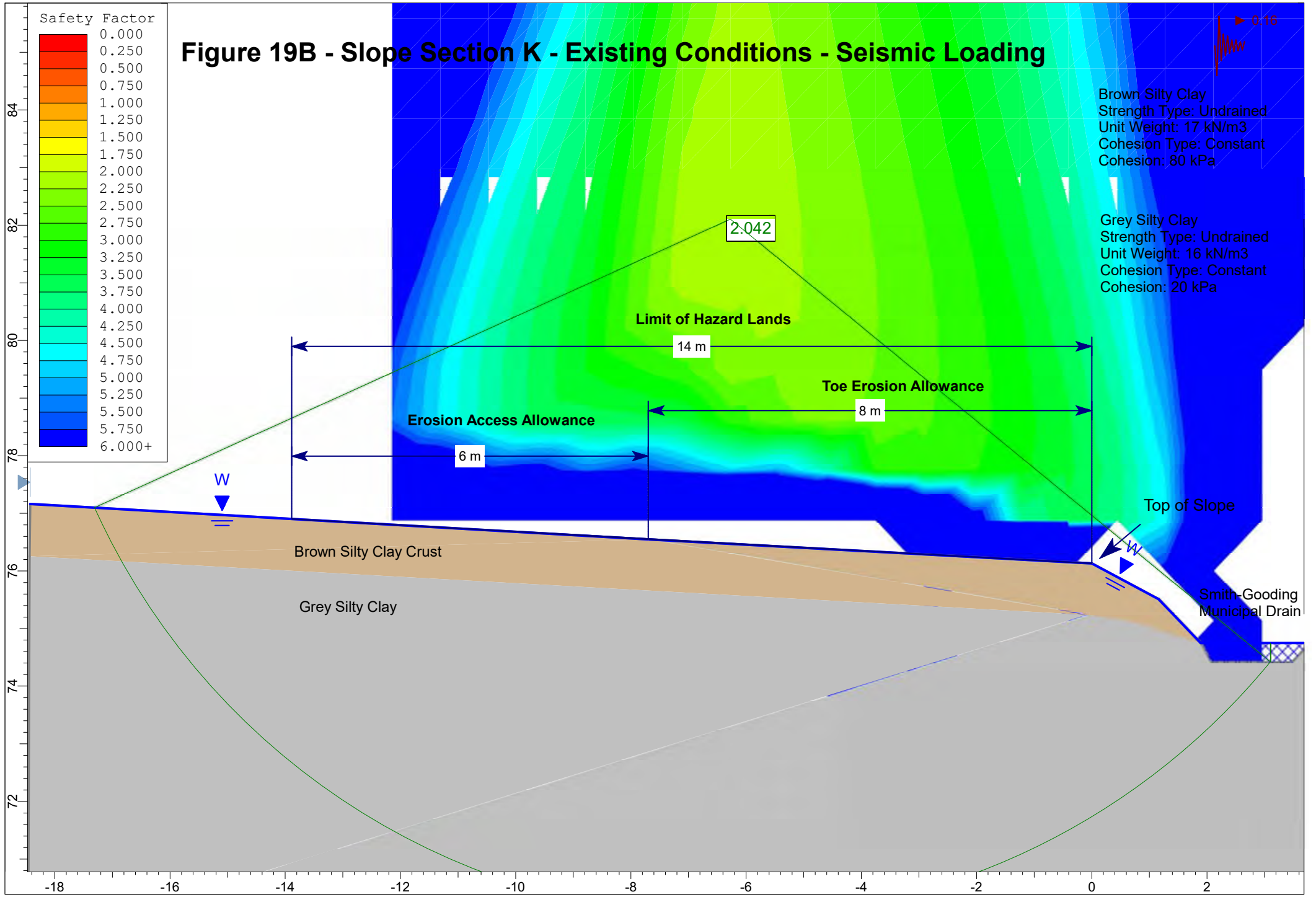


# Figure 19A - Slope Section K - Existing Conditions - Static Loading

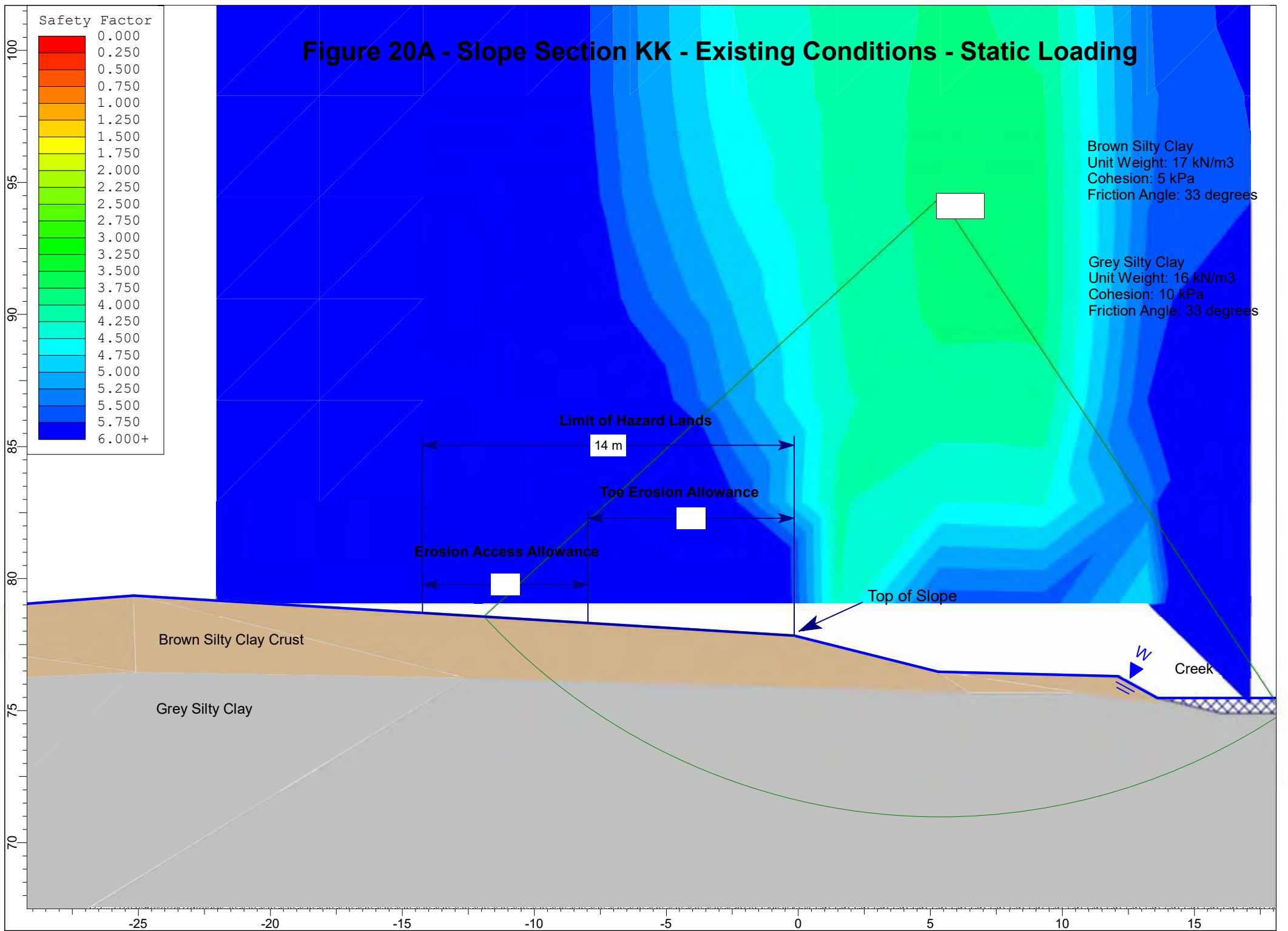




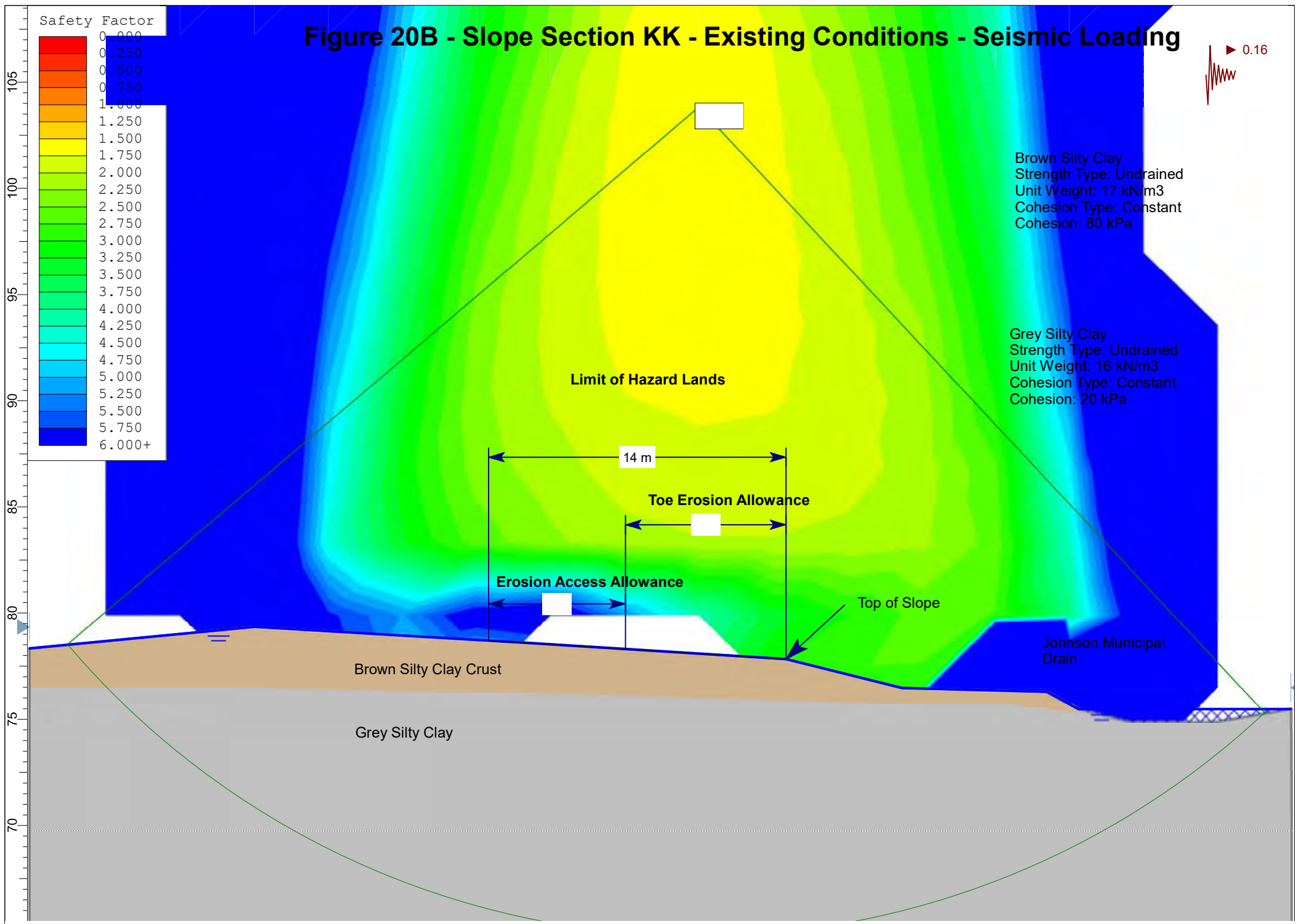
# Figure 19B - Slope Section K - Existing Conditions - Seismic Loading



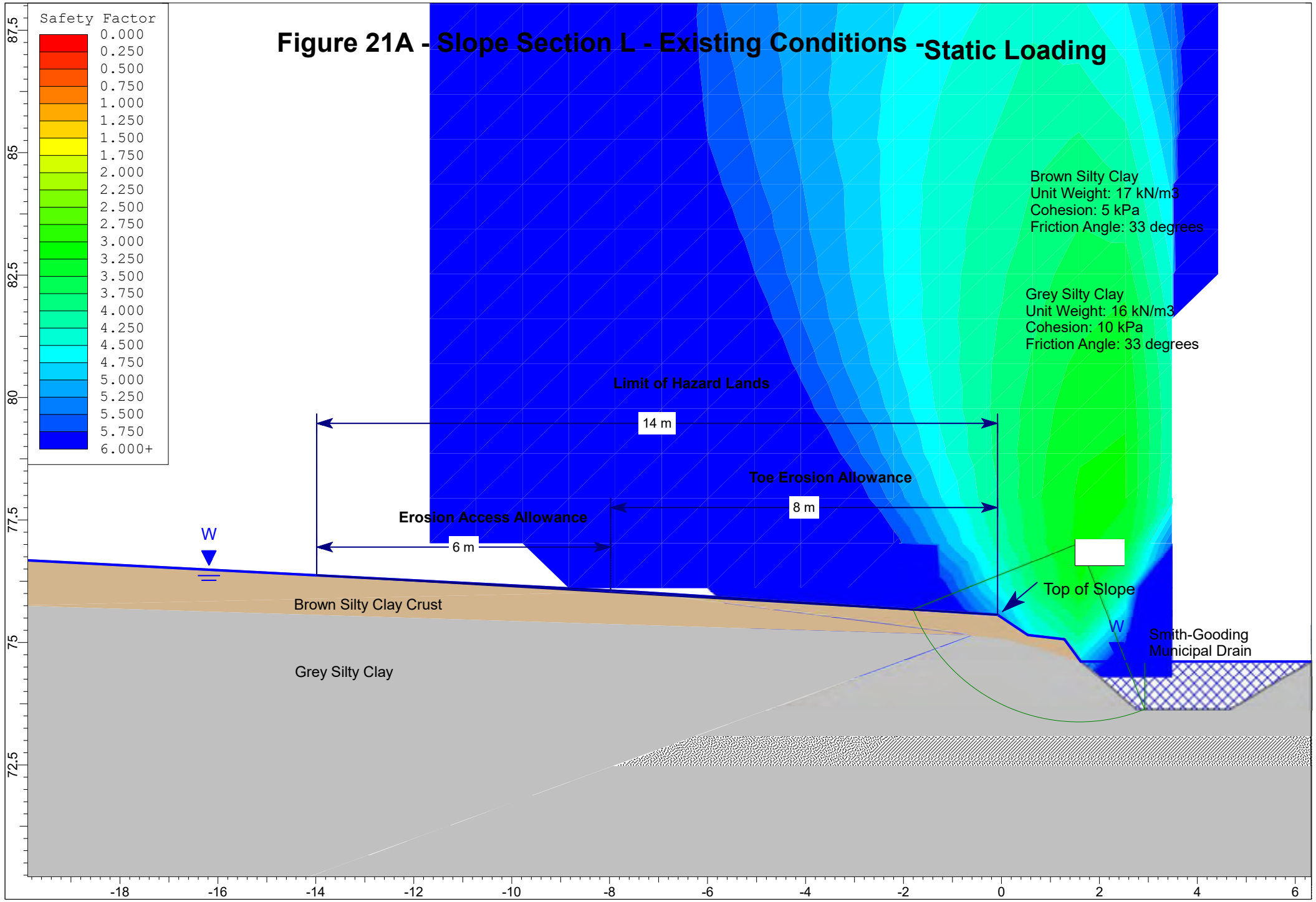
# Figure 20A - Slope Section KK - Existing Conditions - Static Loading



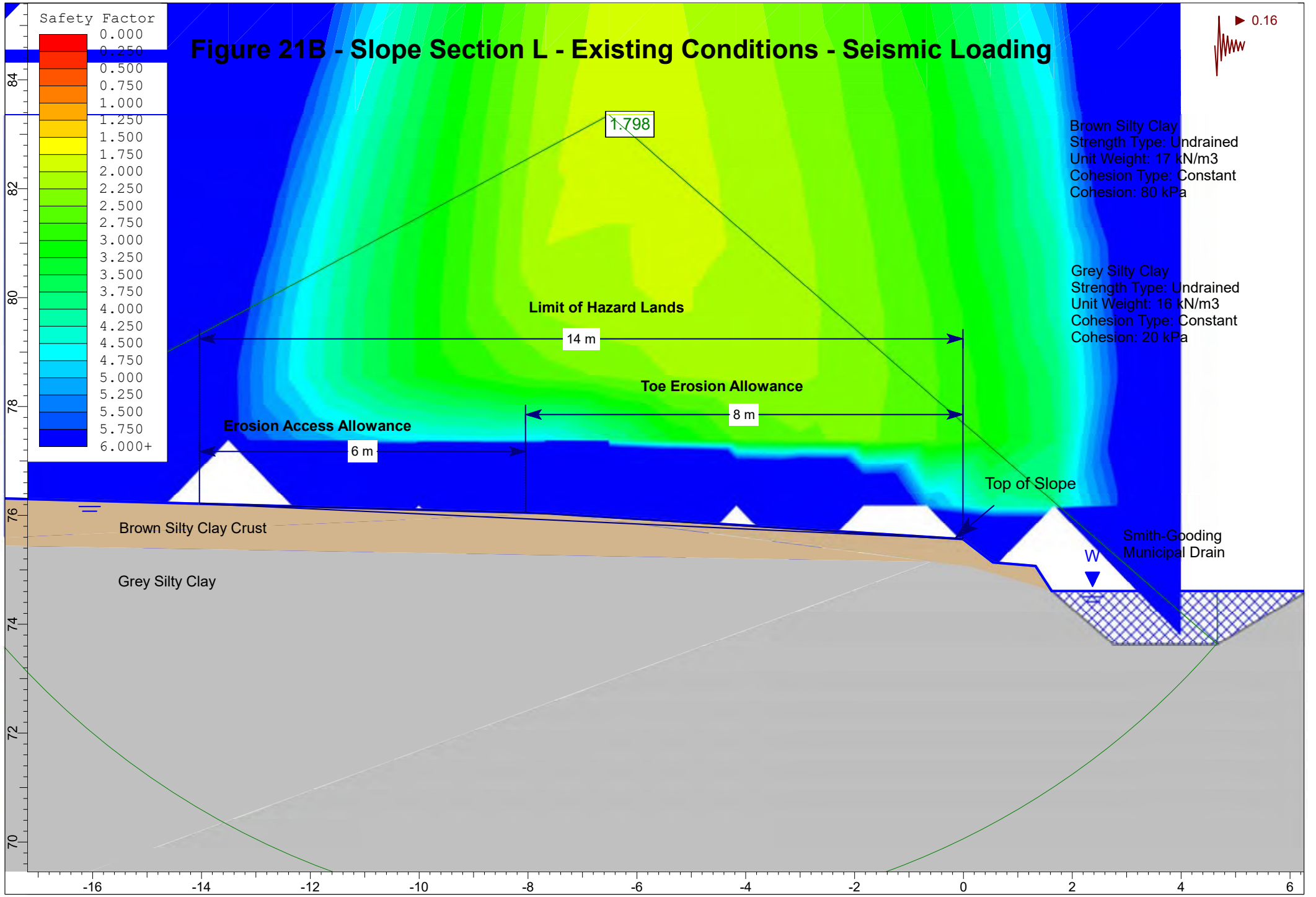
# Figure 20B - Slope Section KK - Existing Conditions - Seismic Loading



# Figure 21A - Slope Section L - Existing Conditions -Static Loading

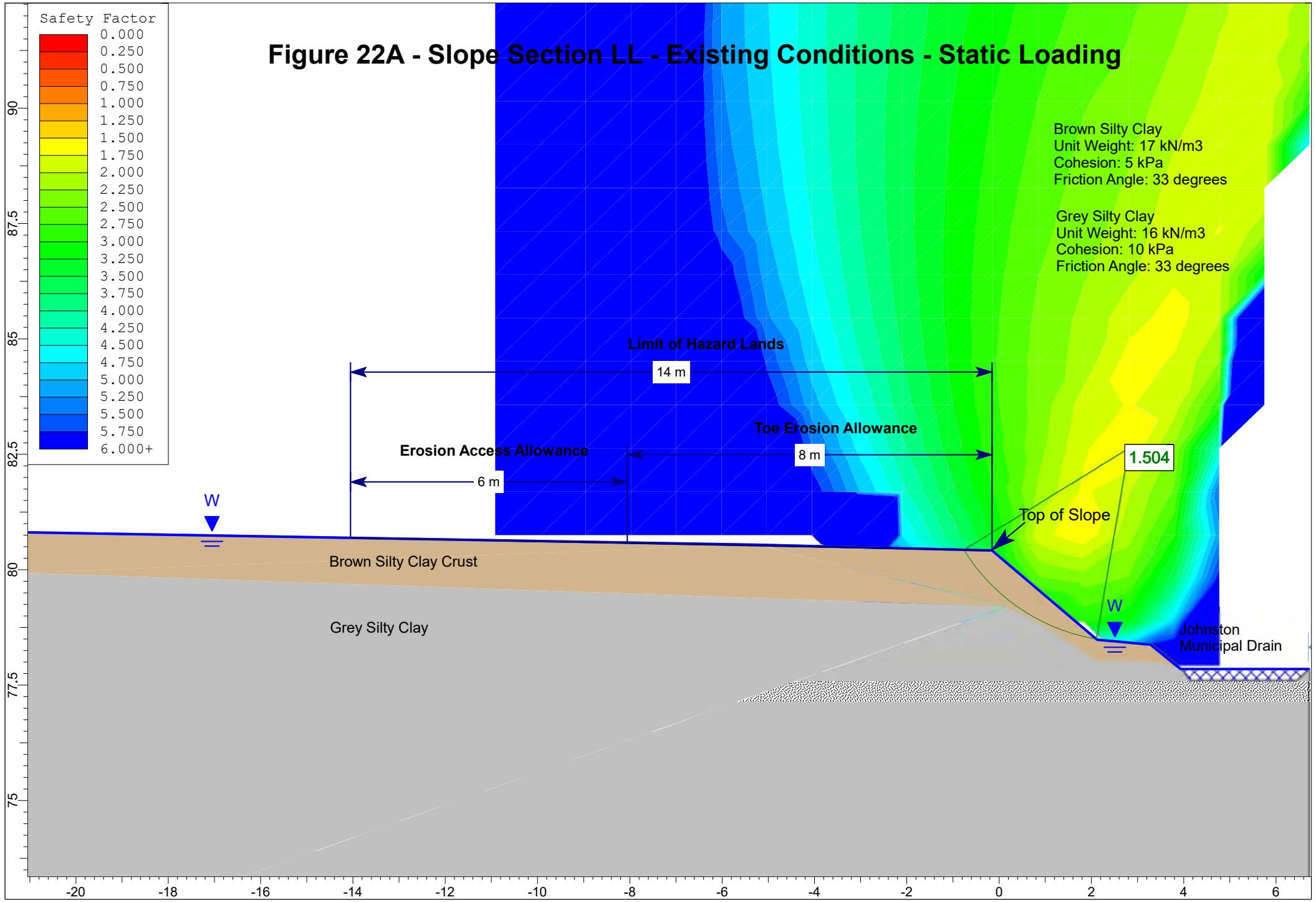


# Figure 21B - Slope Section L - Existing Conditions - Seismic Loading

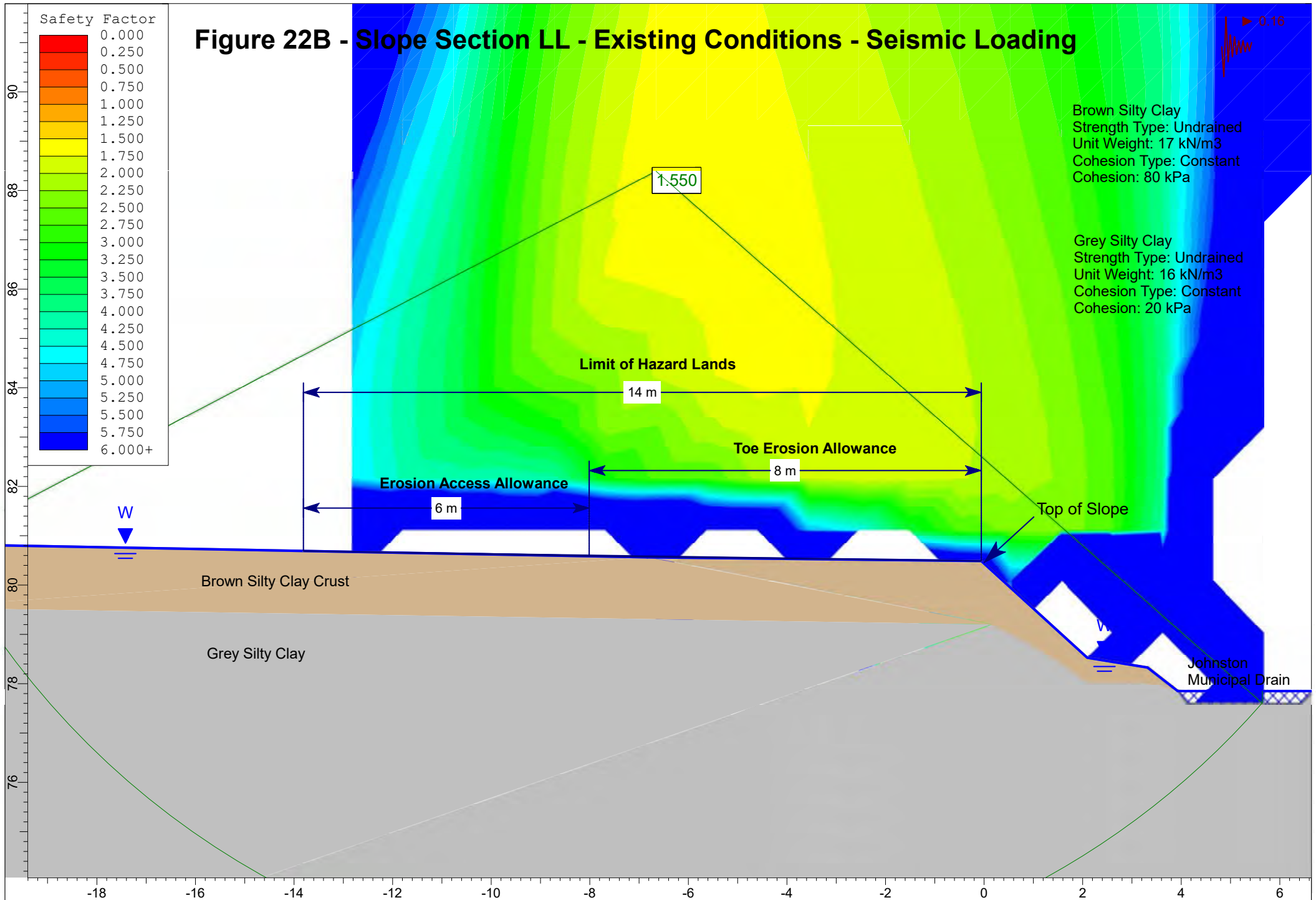




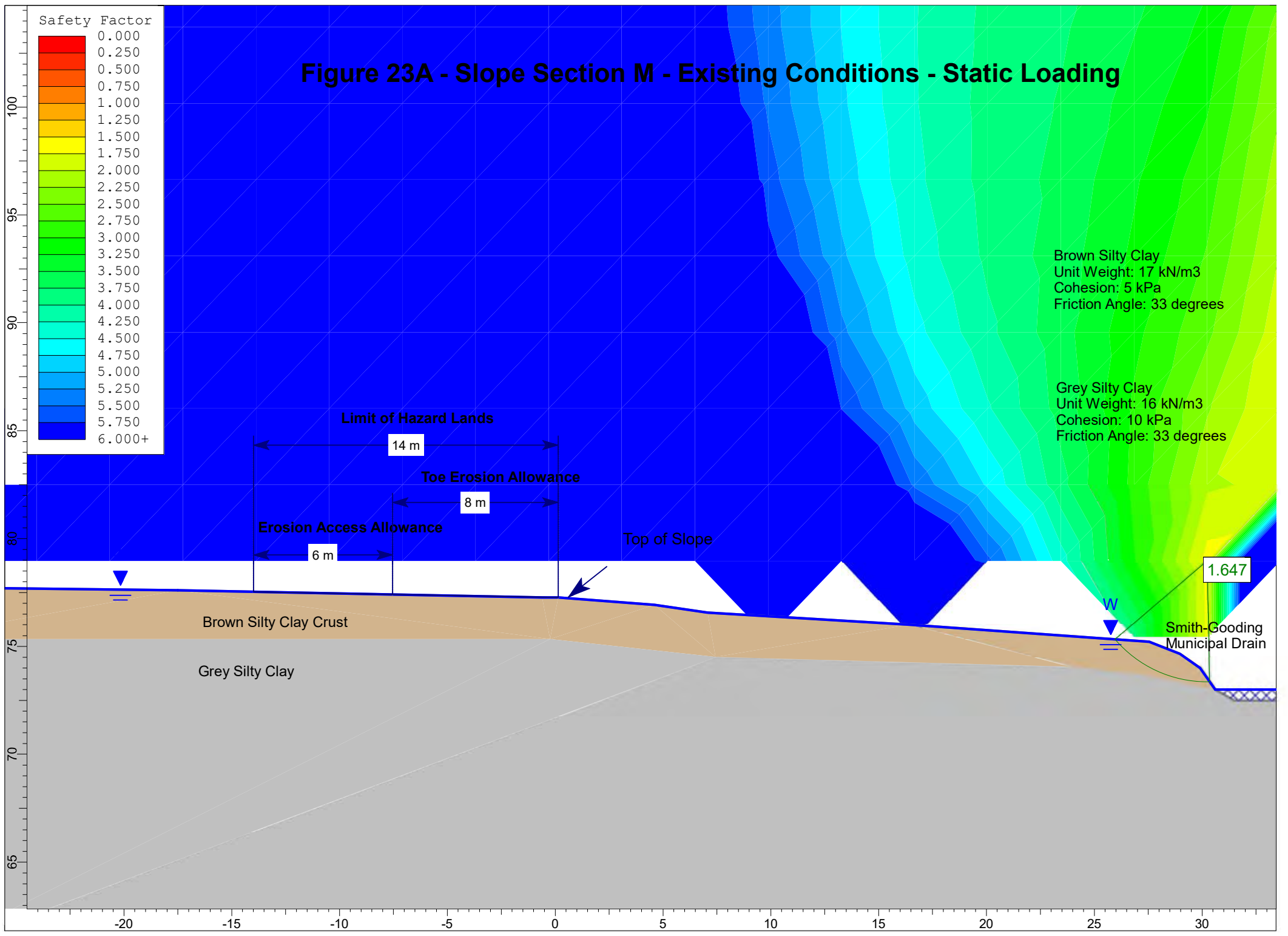
# Figure 22A - Slope Section LL - Existing Conditions - Static Loading



# Figure 22B - Slope Section LL - Existing Conditions - Seismic Loading

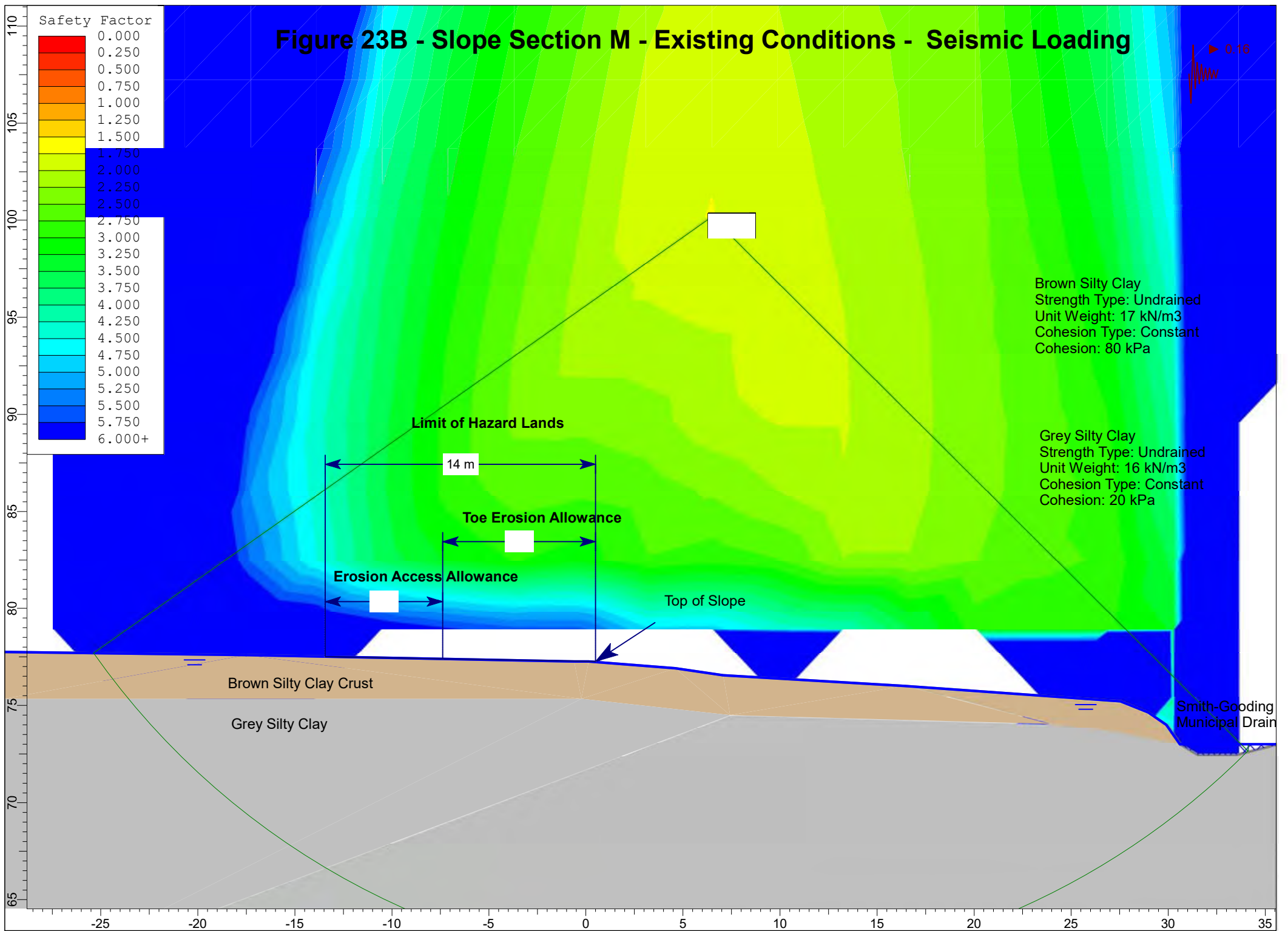


# Figure 23A - Slope Section M - Existing Conditions - Static Loading

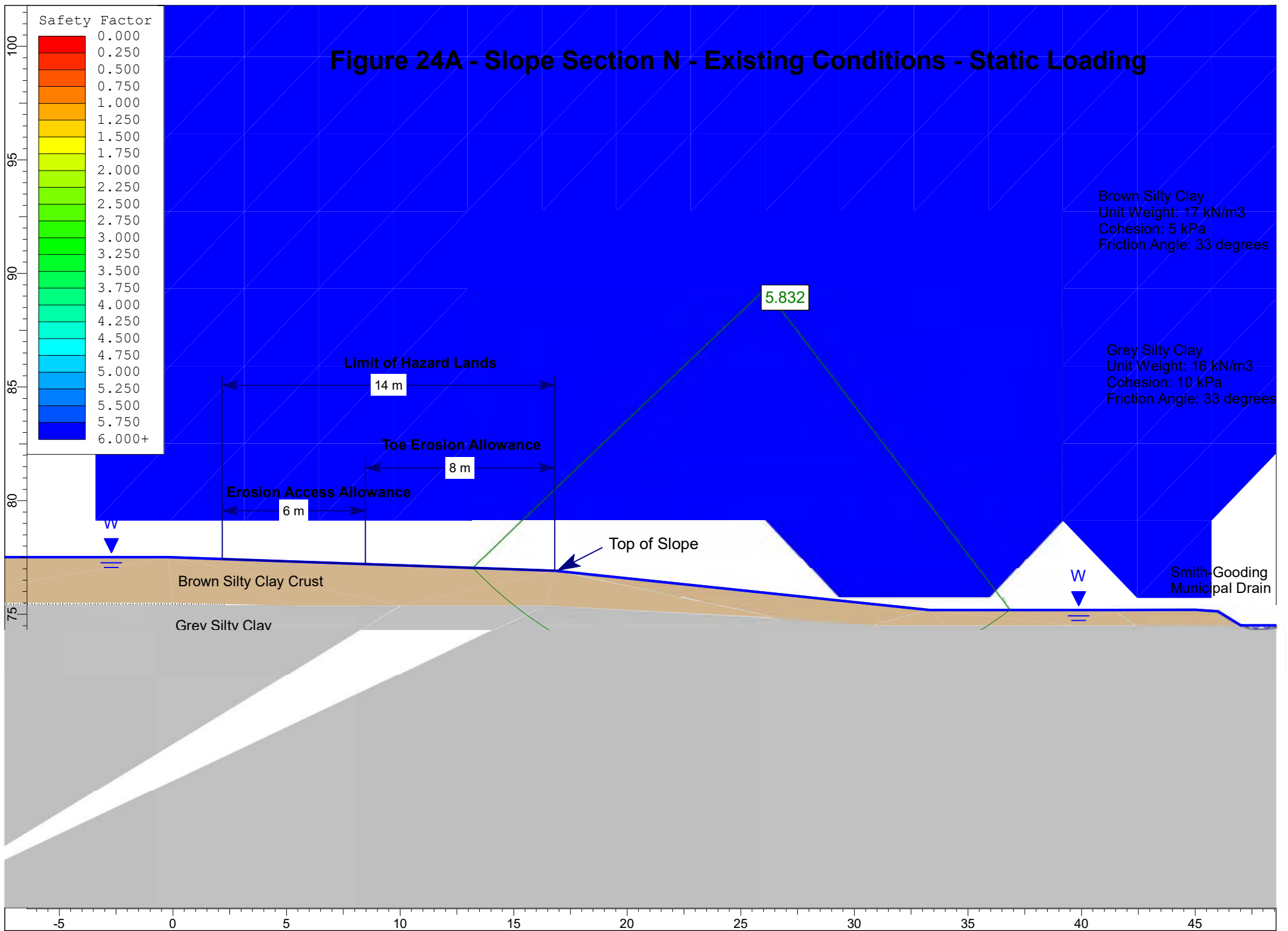




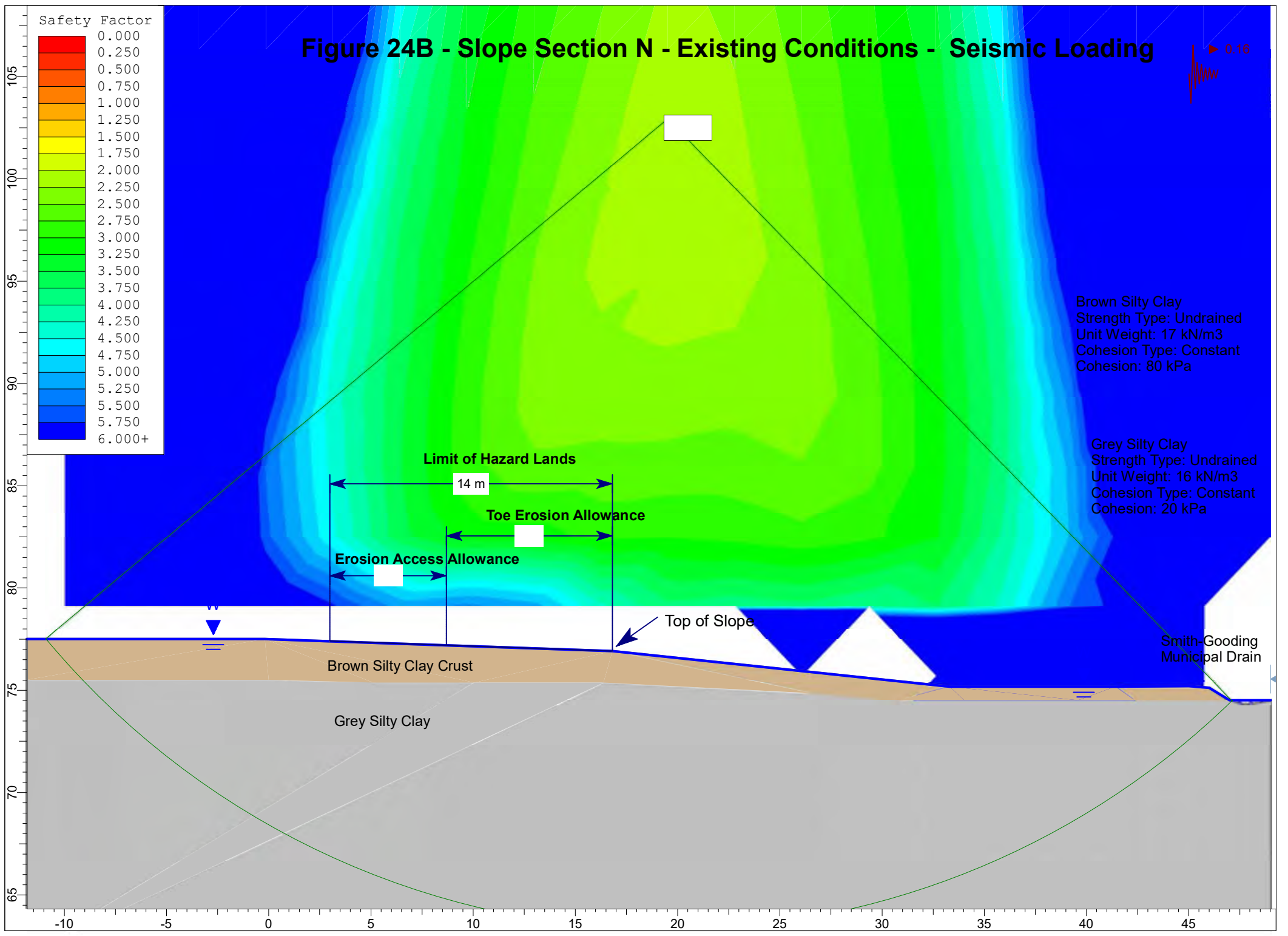
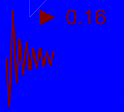
# Figure 23B - Slope Section M - Existing Conditions - Seismic Loading



# Figure 24A - Slope Section N - Existing Conditions - Static Loading



# Figure 24B - Slope Section N - Existing Conditions - Seismic Loading



**Safety Factor**

0.000
0.250
0.500
0.750
1.000
1.250
1.500
1.750
2.000
2.250
2.500
2.750
3.000
3.250
3.500
3.750
4.000
4.250
4.500
4.750
5.000
5.250
5.500
5.750
6.000+

**Brown Silty Clay**  
 Strength Type: Undrained  
 Unit Weight: 17 kN/m<sup>3</sup>  
 Cohesion Type: Constant  
 Cohesion: 80 kPa

**Grey Silty Clay**  
 Strength Type: Undrained  
 Unit Weight: 16 kN/m<sup>3</sup>  
 Cohesion Type: Constant  
 Cohesion: 20 kPa

Brown Silty Clay Crust

Grey Silty Clay

Smith-Gooding  
Municipal Drain

Top of Slope

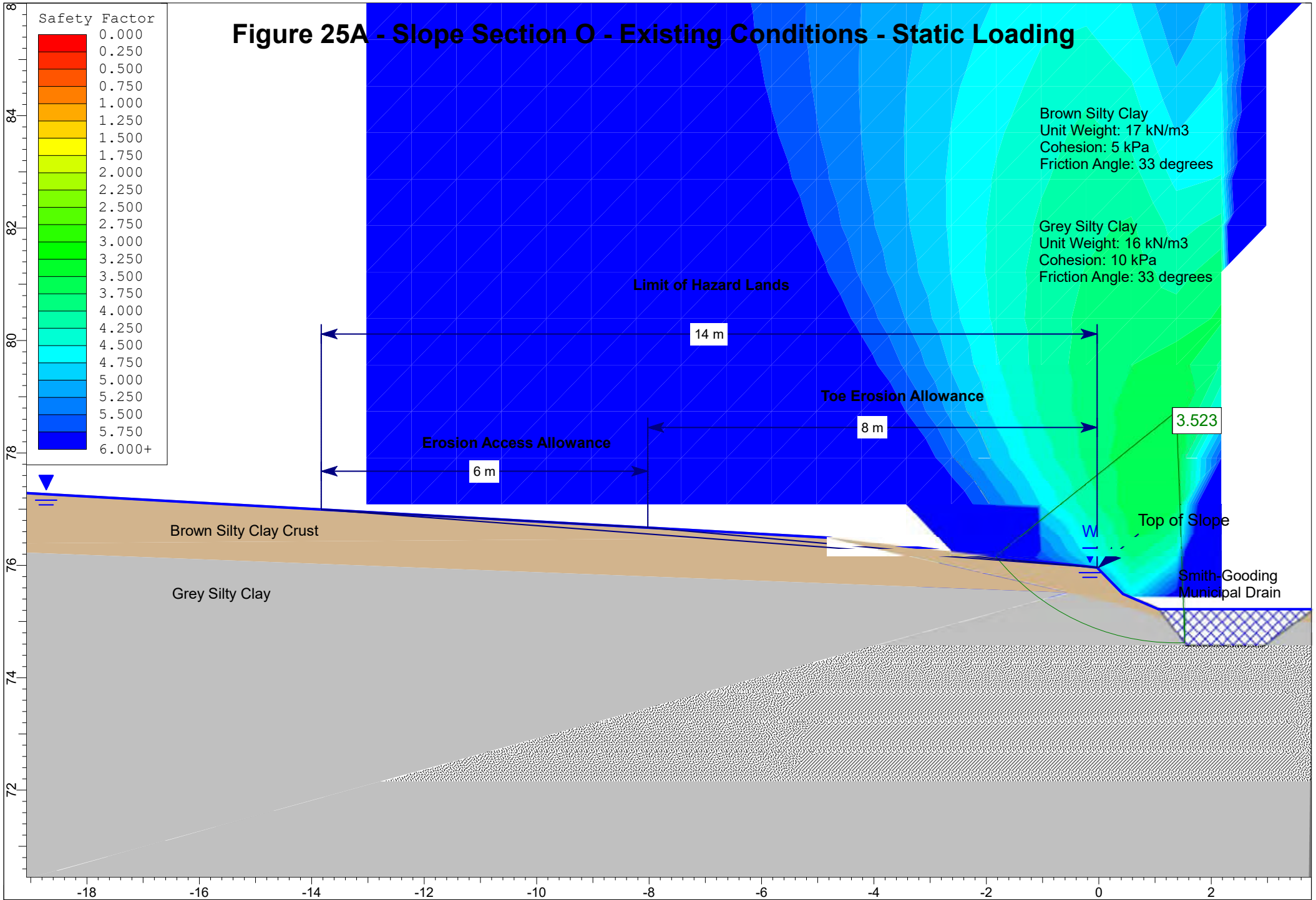
Limit of Hazard Lands

14 m

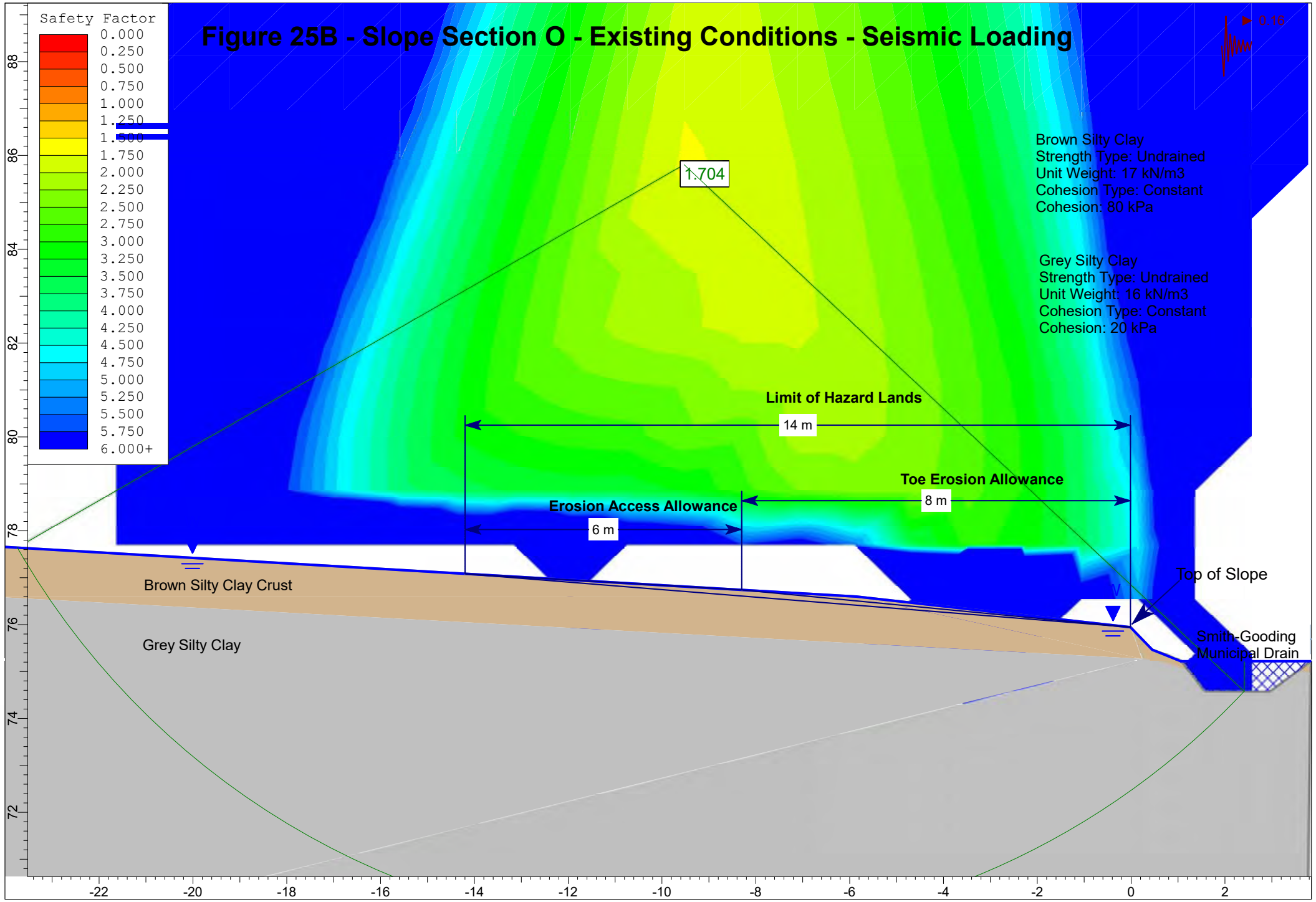
Toe Erosion Allowance

Erosion Access Allowance

# Figure 25A - Slope Section O - Existing Conditions - Static Loading

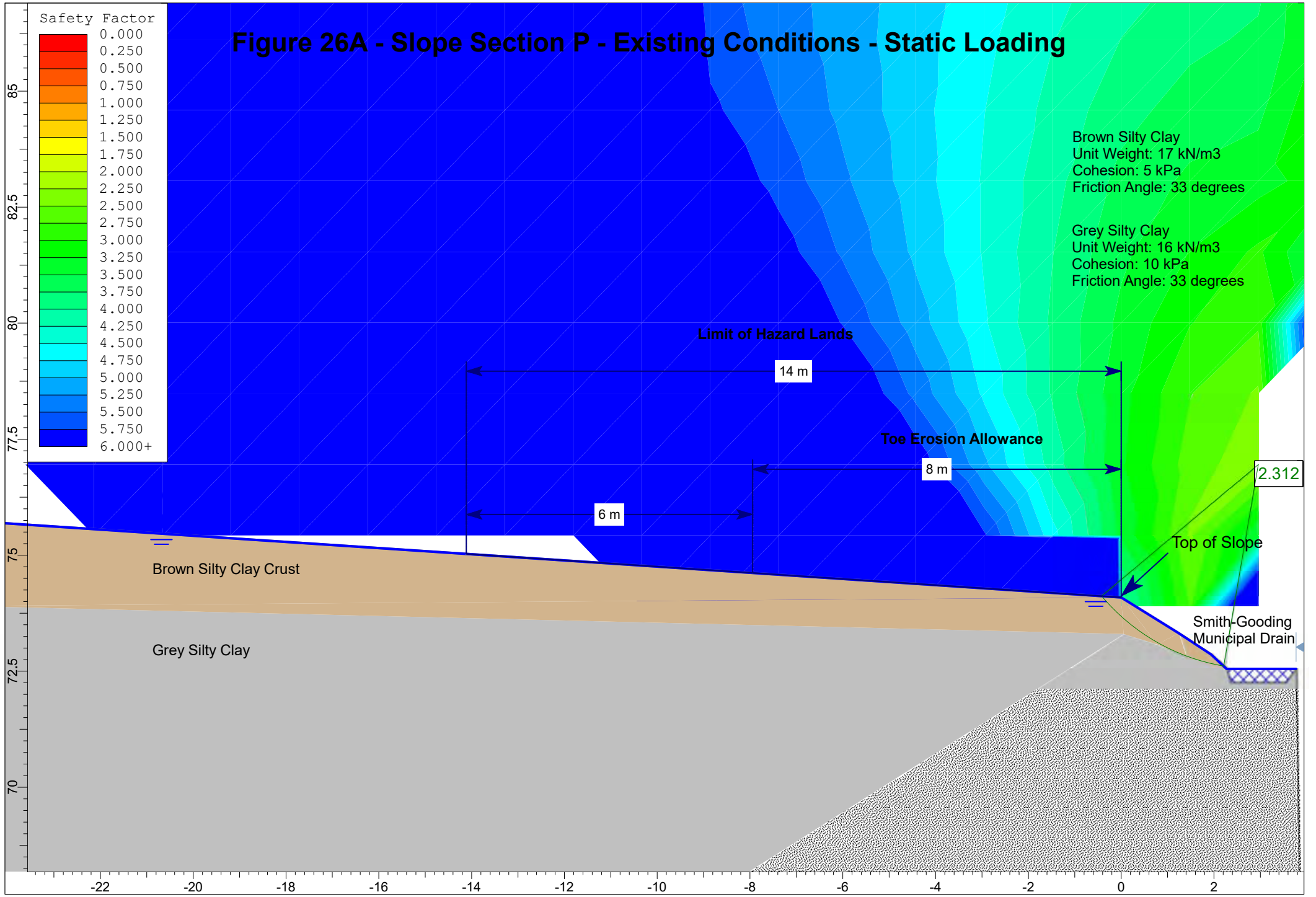


# Figure 25B - Slope Section O - Existing Conditions - Seismic Loading

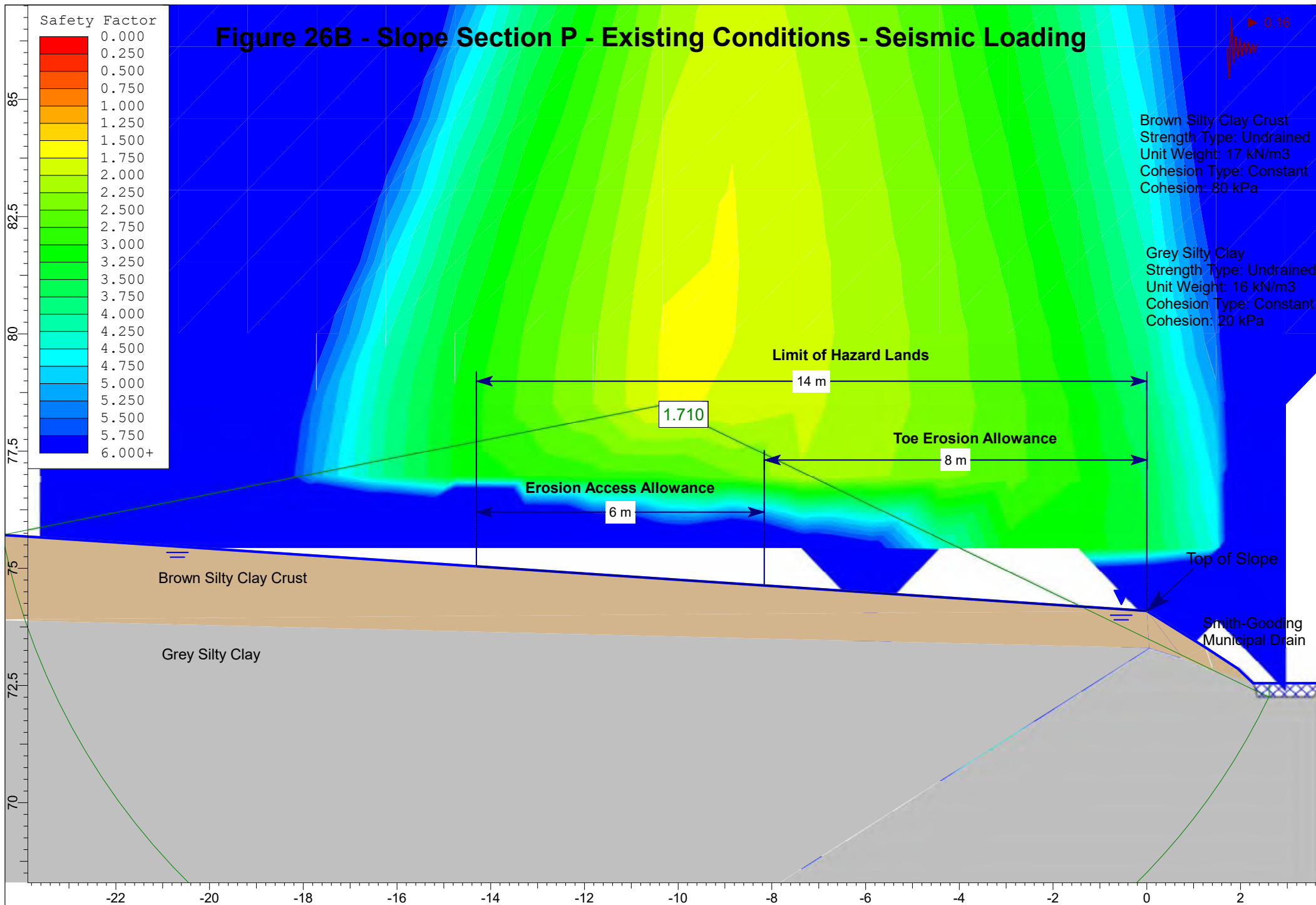




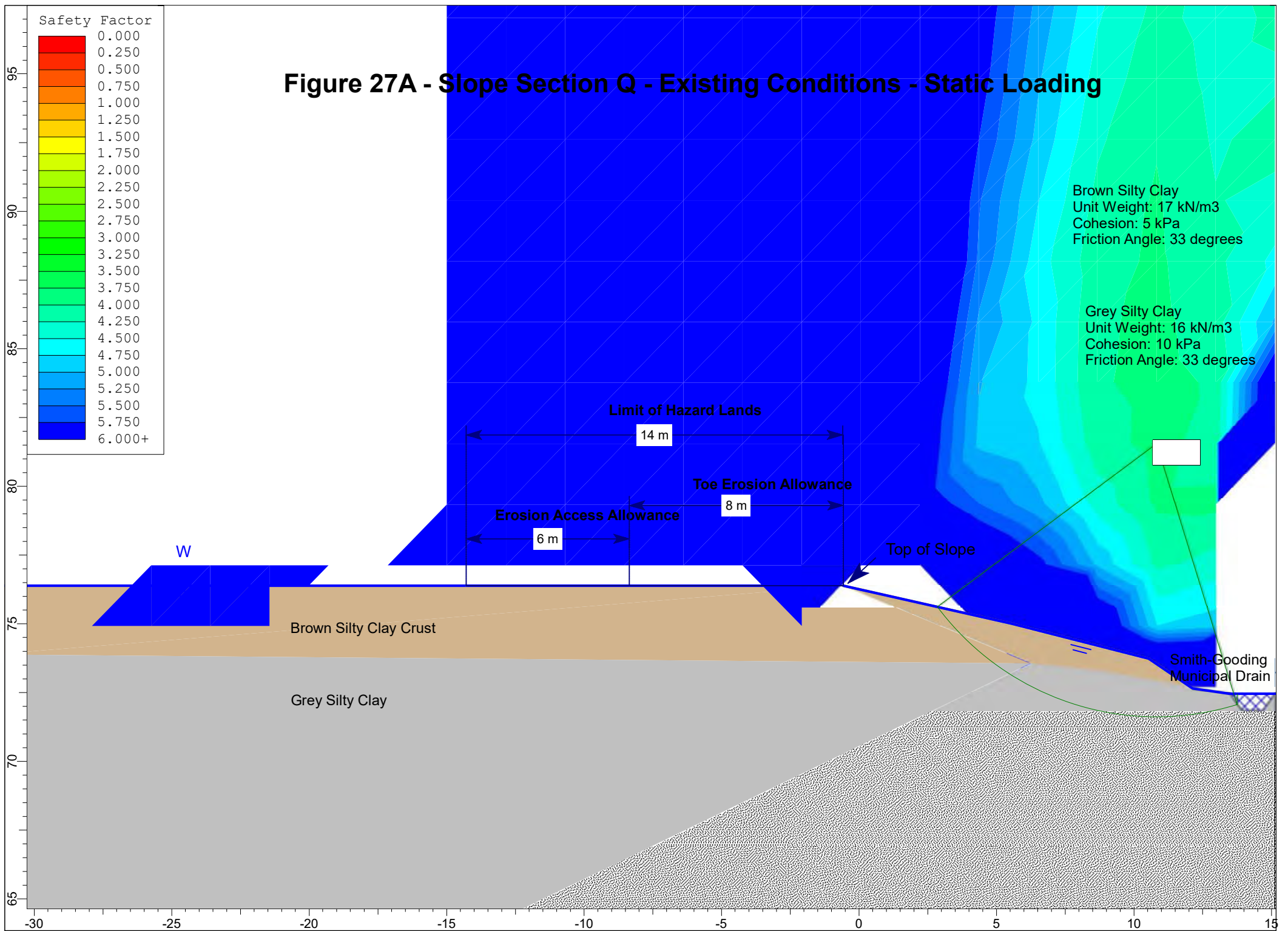
# Figure 26A - Slope Section P - Existing Conditions - Static Loading



# Figure 26B - Slope Section P - Existing Conditions - Seismic Loading



**Figure 27A - Slope Section Q - Existing Conditions - Static Loading**



Safety Factor
0.000
0.250
0.500
0.750
1.000
1.250
1.500
1.750
2.000
2.250
2.500
2.750
3.000
3.250
3.500
3.750
4.000
4.250
4.500
4.750
5.000
5.250
5.500
5.750
6.000+

Brown Silty Clay  
 Unit Weight: 17 kN/m<sup>3</sup>  
 Cohesion: 5 kPa  
 Friction Angle: 33 degrees

Grey Silty Clay  
 Unit Weight: 16 kN/m<sup>3</sup>  
 Cohesion: 10 kPa  
 Friction Angle: 33 degrees

Limit of Hazard Lands

14 m

Toe Erosion Allowance

8 m

Erosion Access Allowance

6 m

Top of Slope

Brown Silty Clay Crust

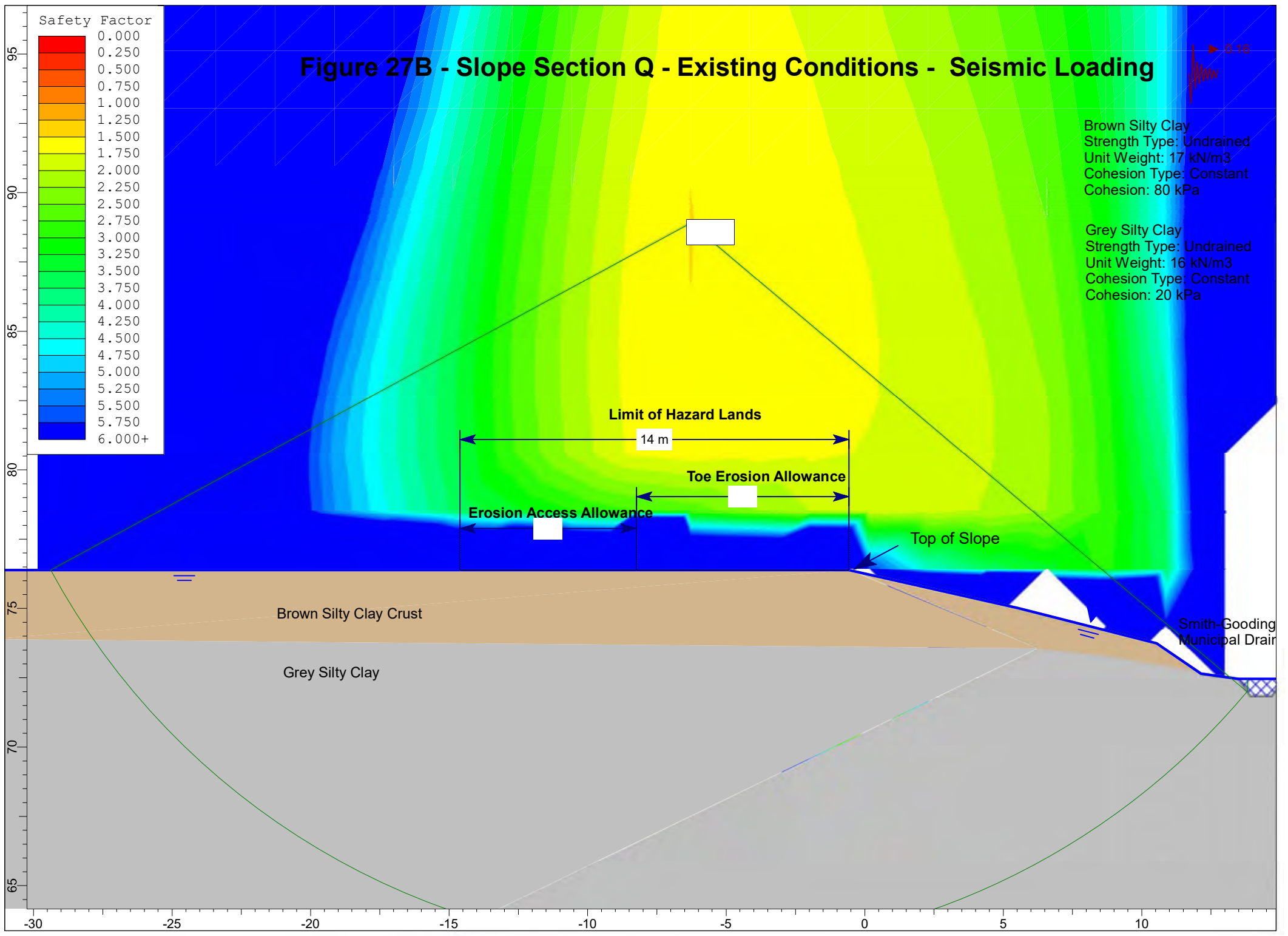
Grey Silty Clay

Smith-Gooding  
 Municipal Drain

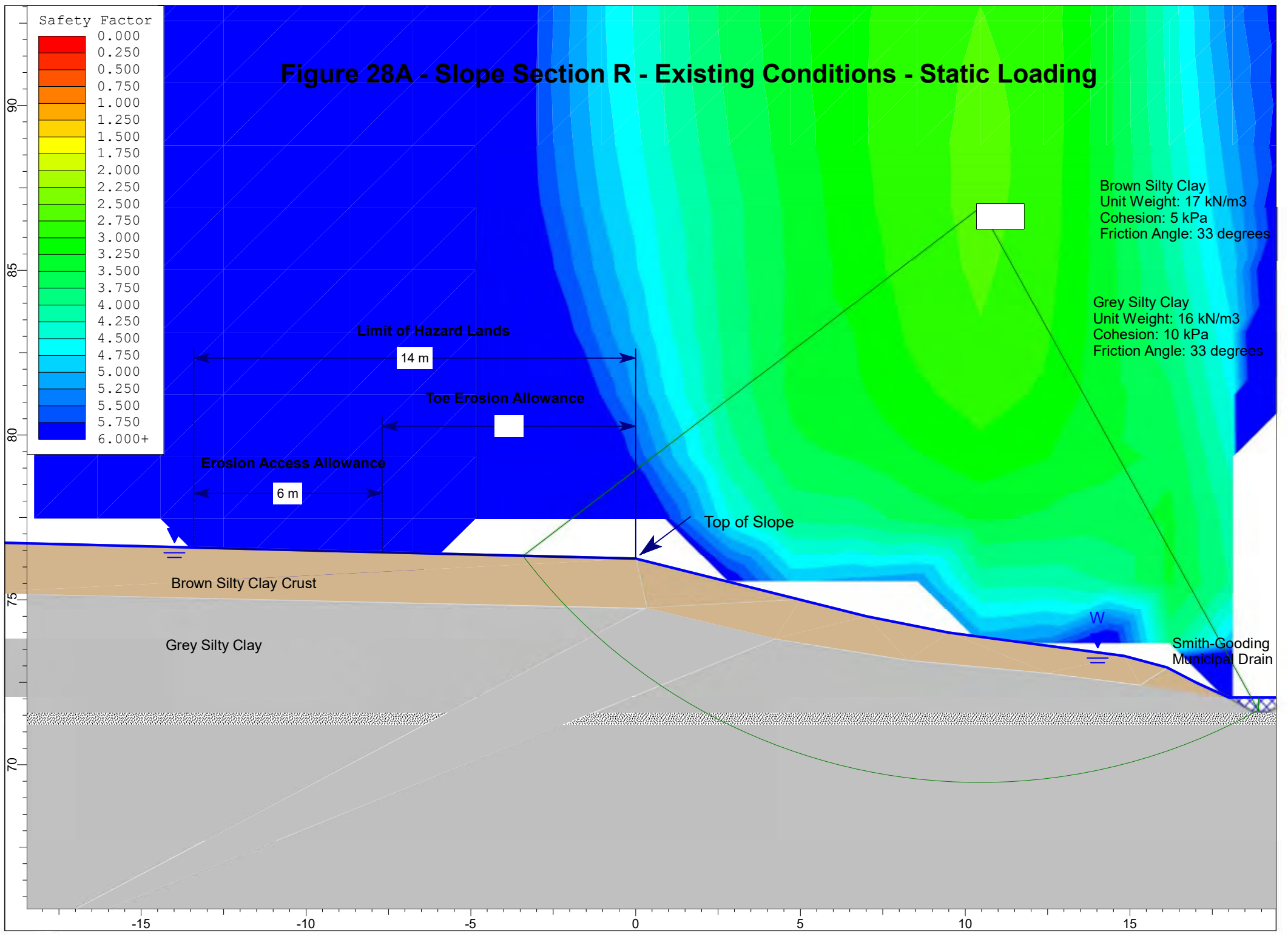
W



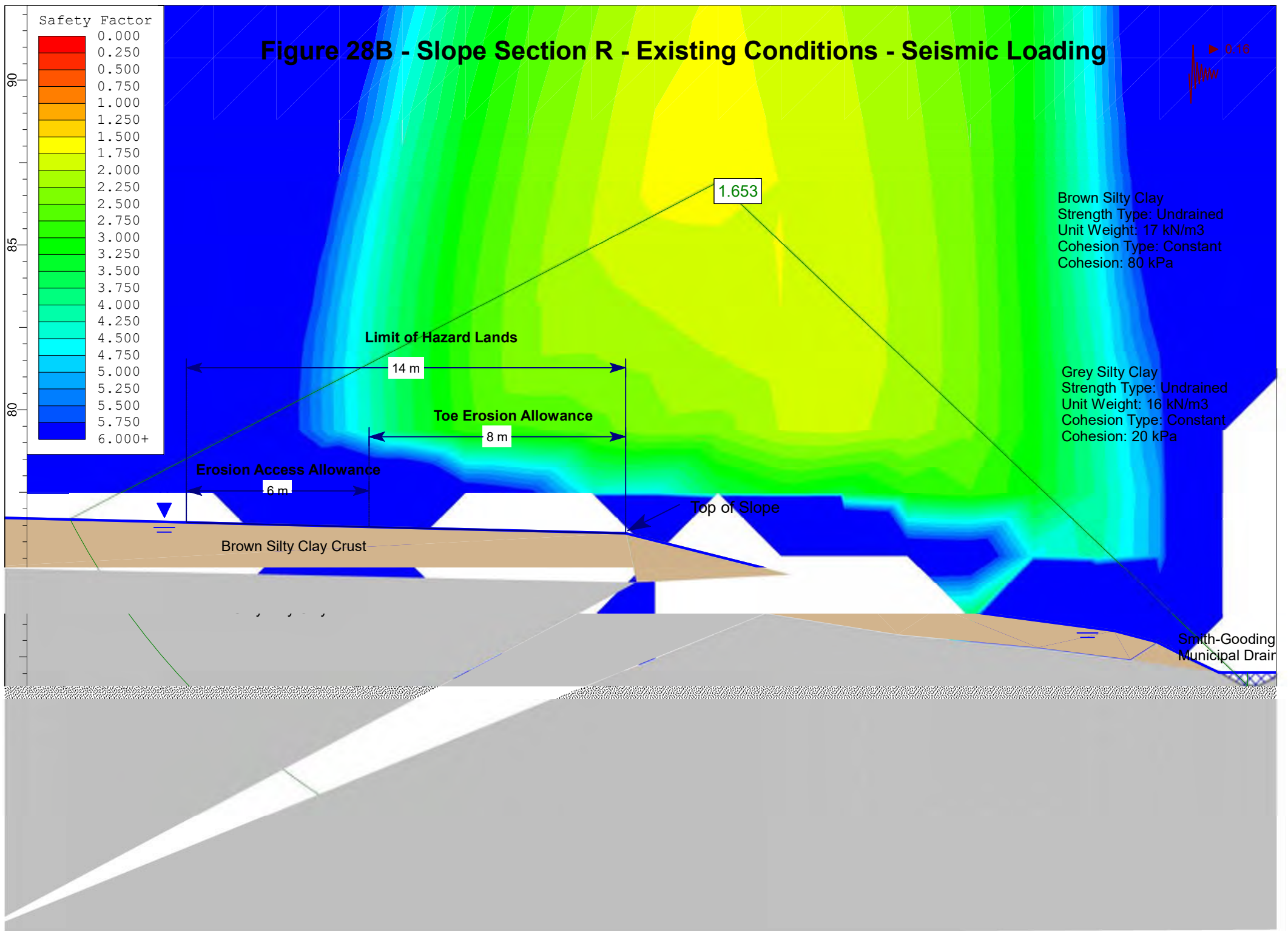
# Figure 27B - Slope Section Q - Existing Conditions - Seismic Loading



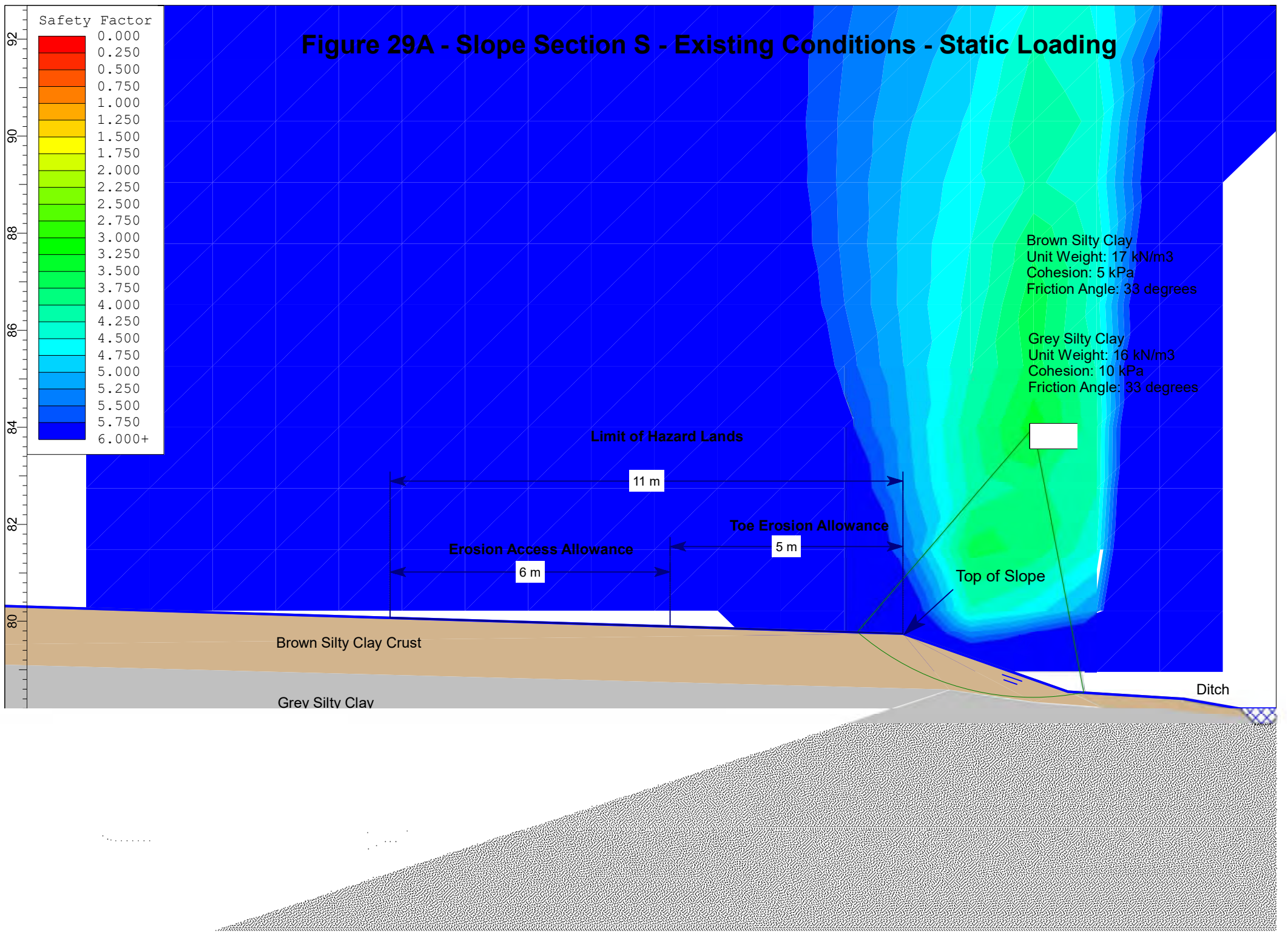
# Figure 28A - Slope Section R - Existing Conditions - Static Loading



# Figure 28B - Slope Section R - Existing Conditions - Seismic Loading

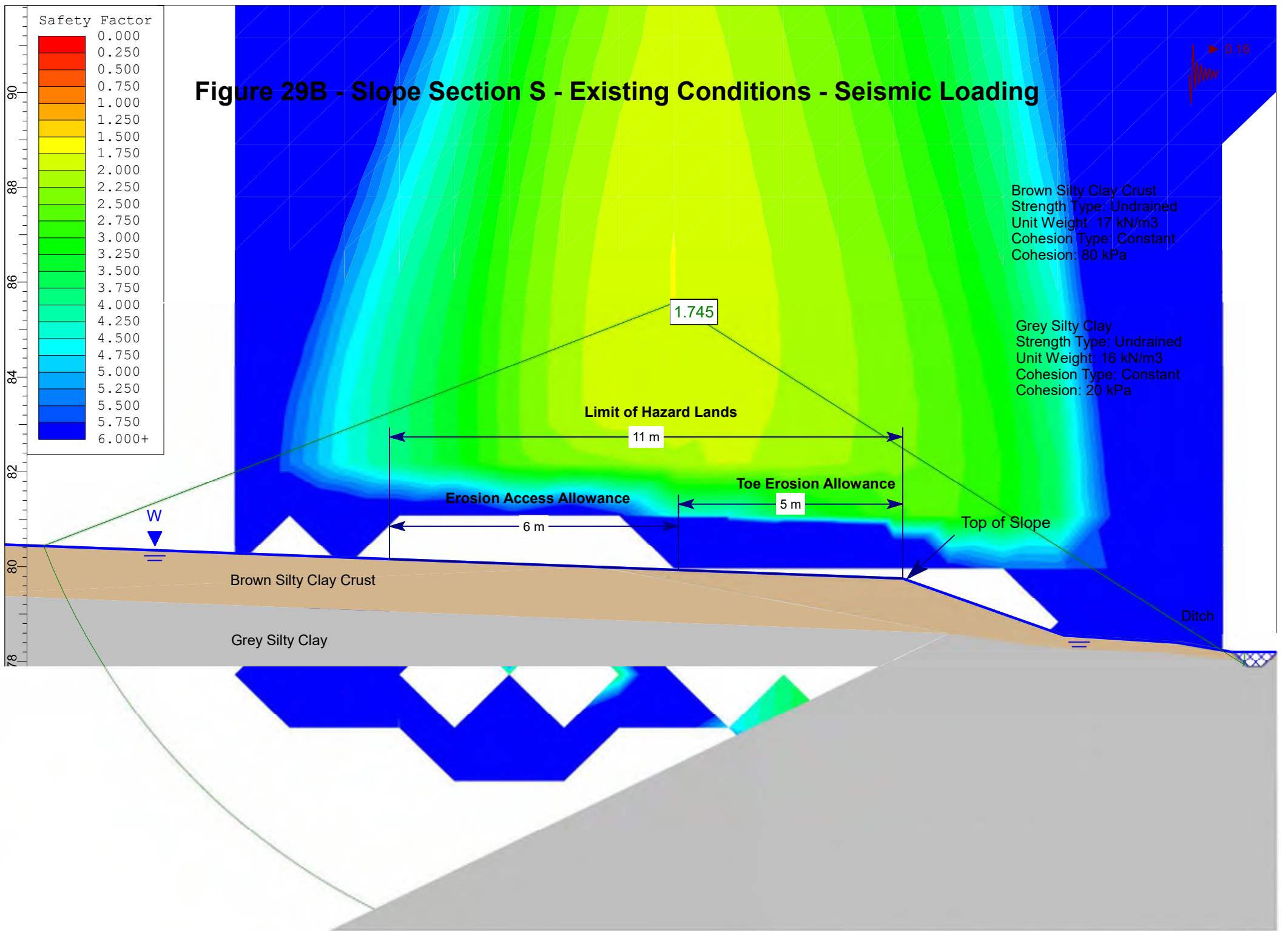


# Figure 29A - Slope Section S - Existing Conditions - Static Loading

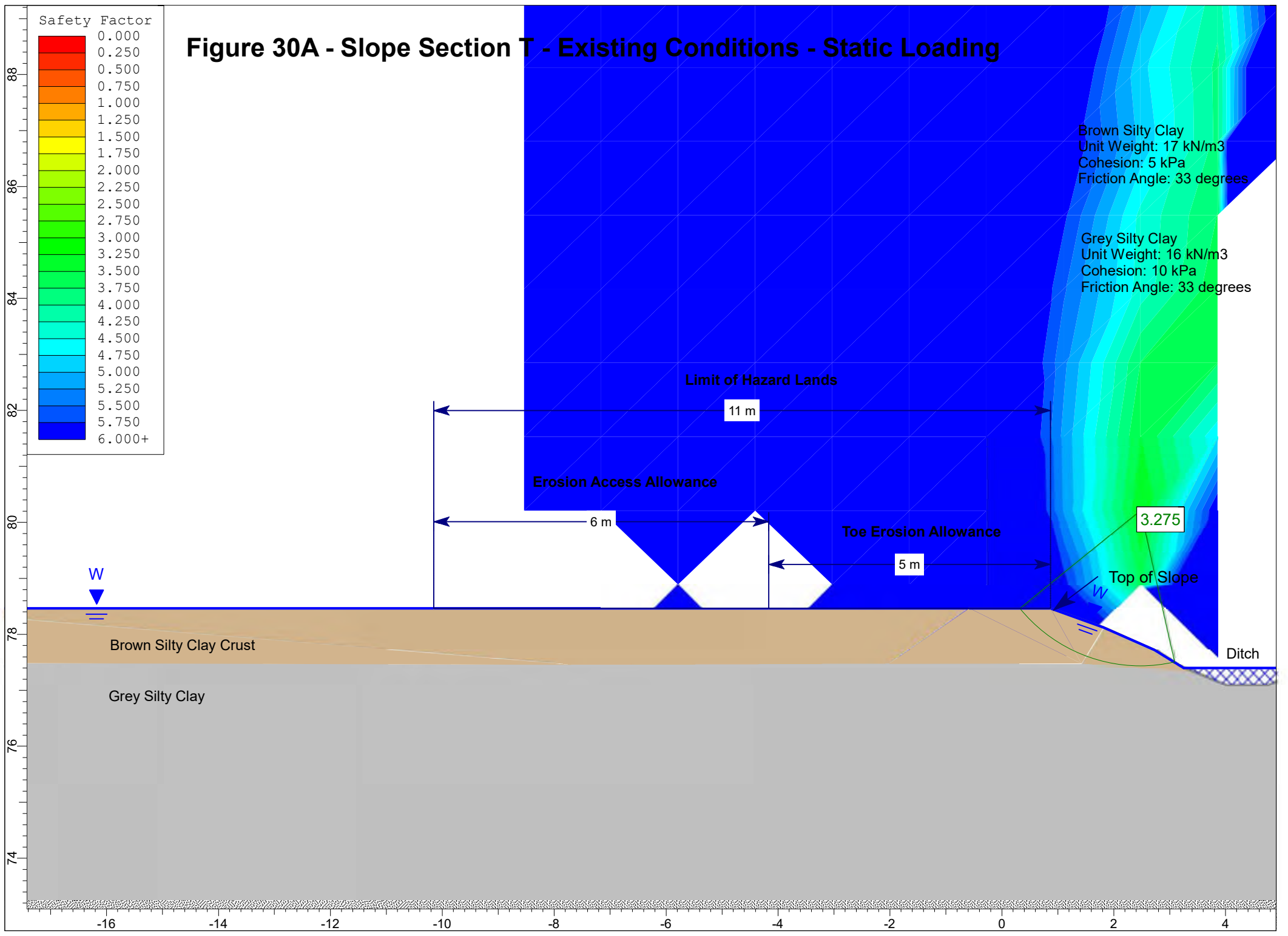




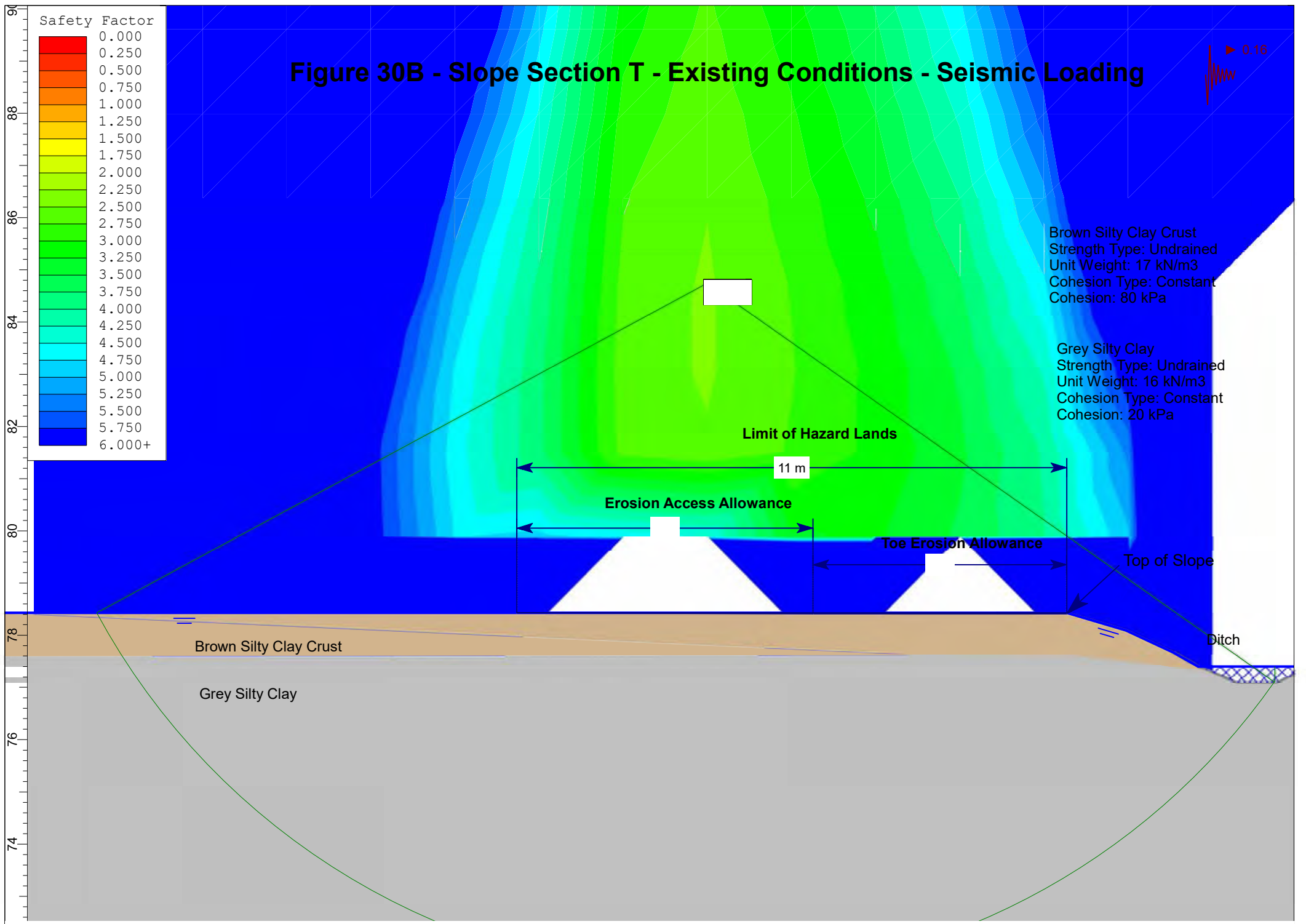
# Figure 29B - Slope Section S - Existing Conditions - Seismic Loading



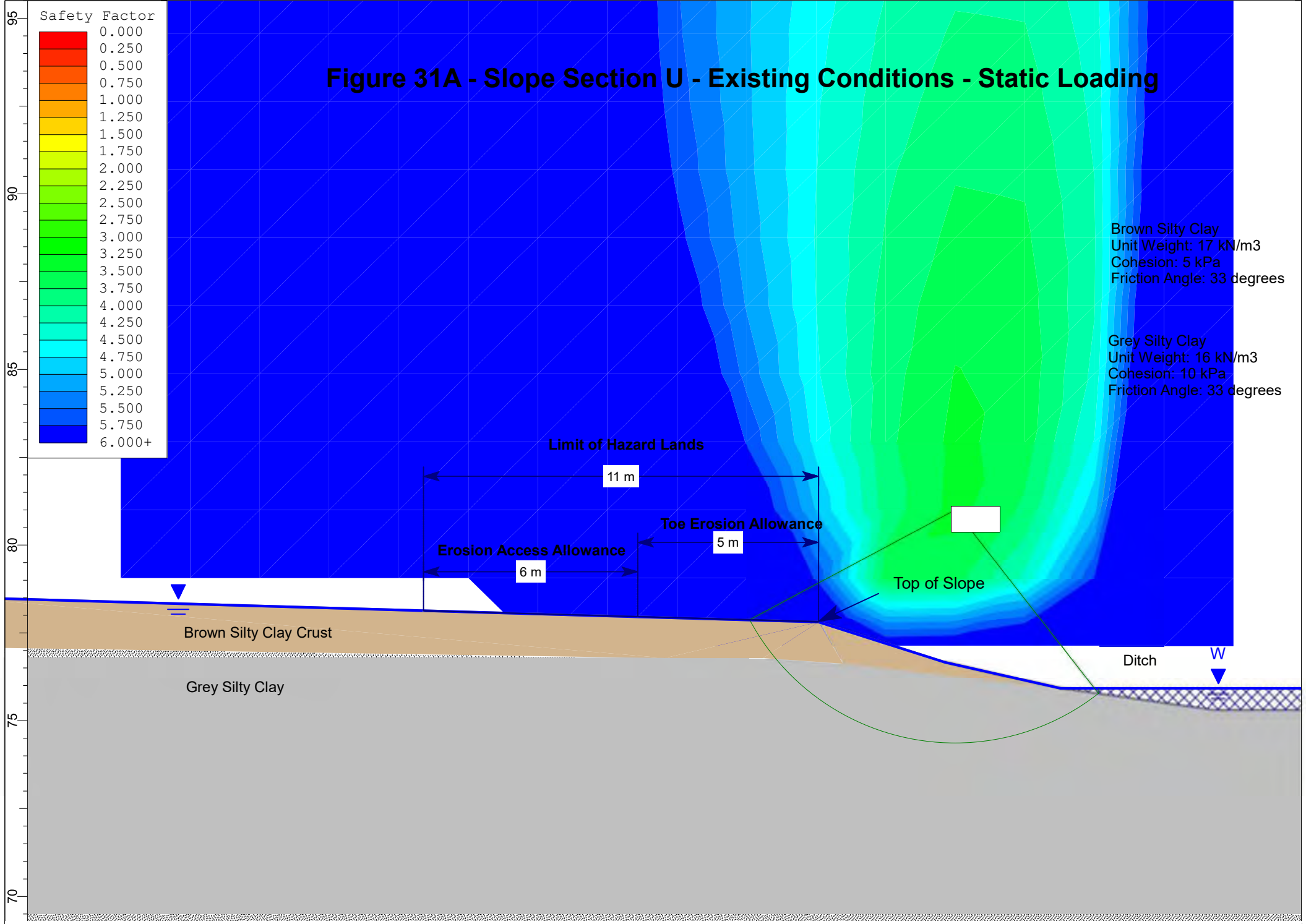
# Figure 30A - Slope Section T - Existing Conditions - Static Loading



# Figure 30B - Slope Section T - Existing Conditions - Seismic Loading

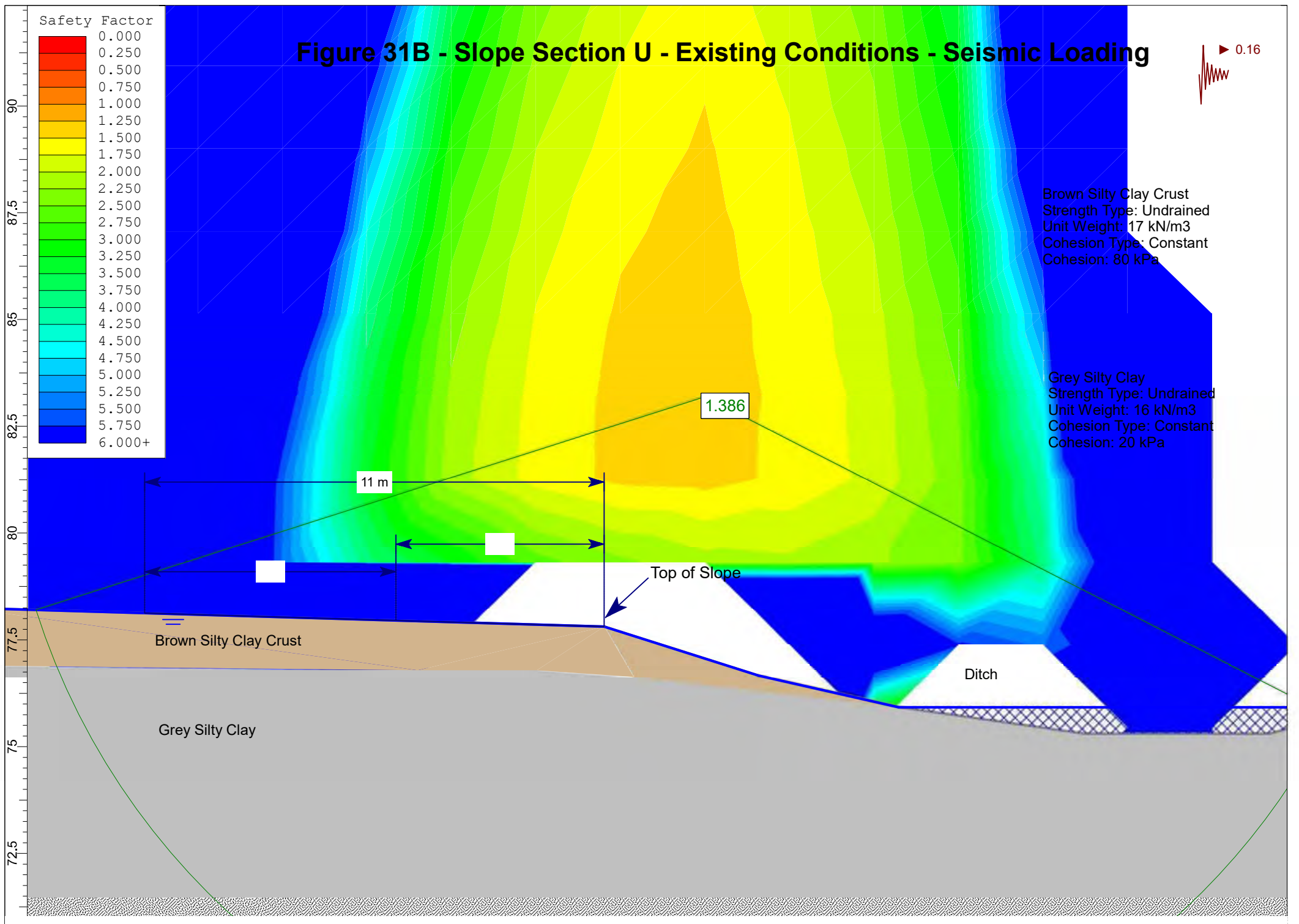


# Figure 31A - Slope Section U - Existing Conditions - Static Loading

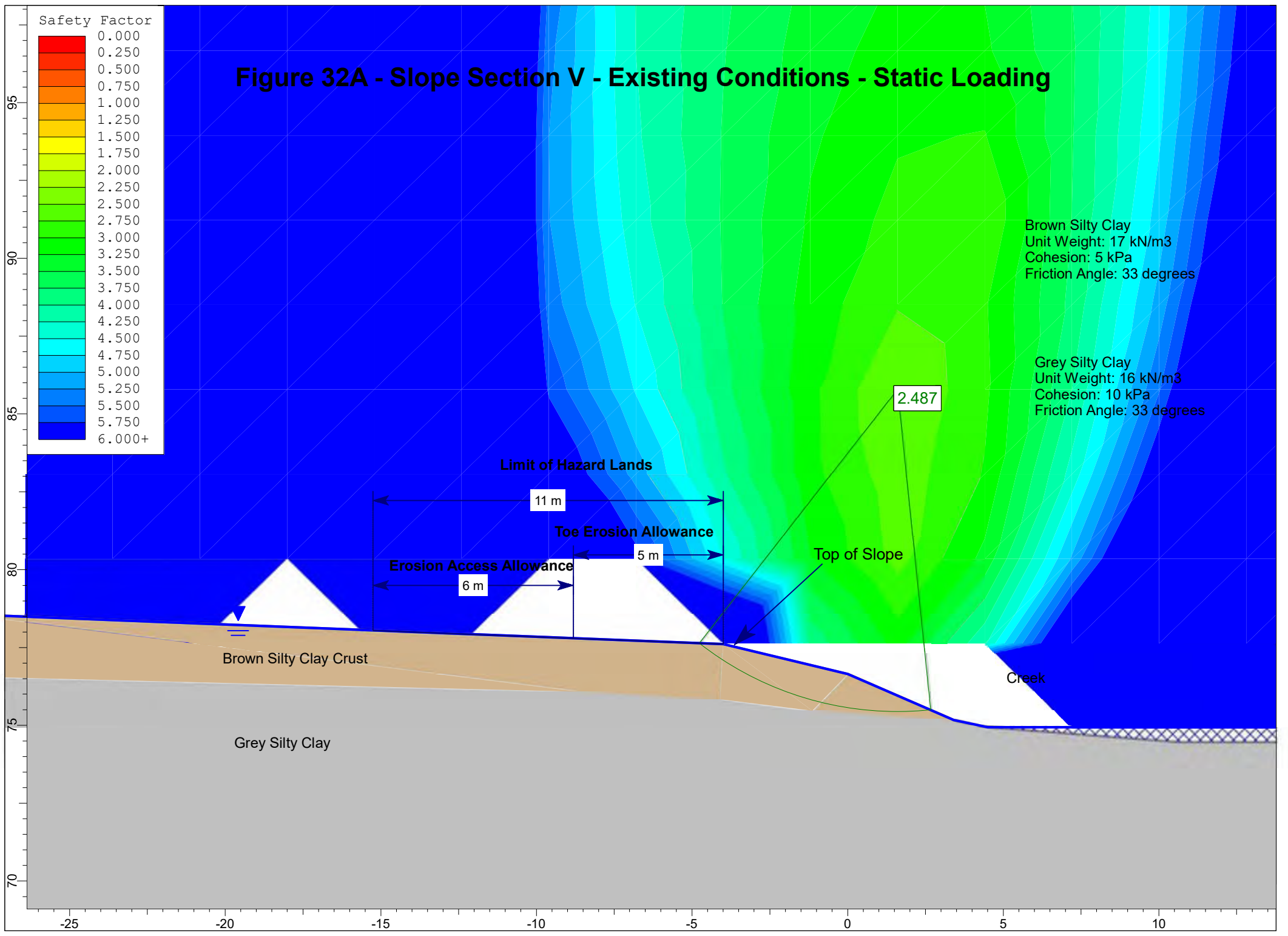




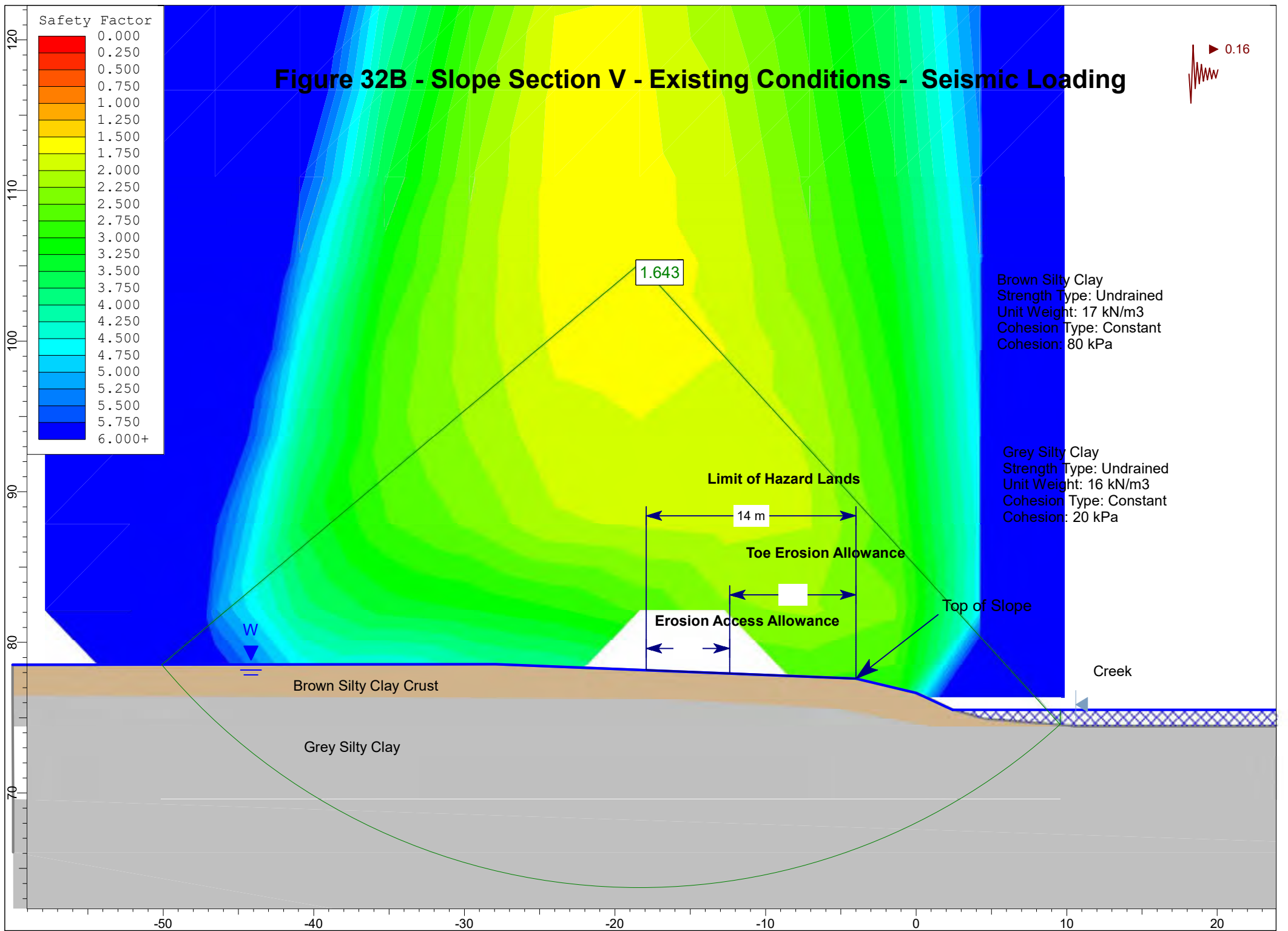
# Figure 31B - Slope Section U - Existing Conditions - Seismic Loading



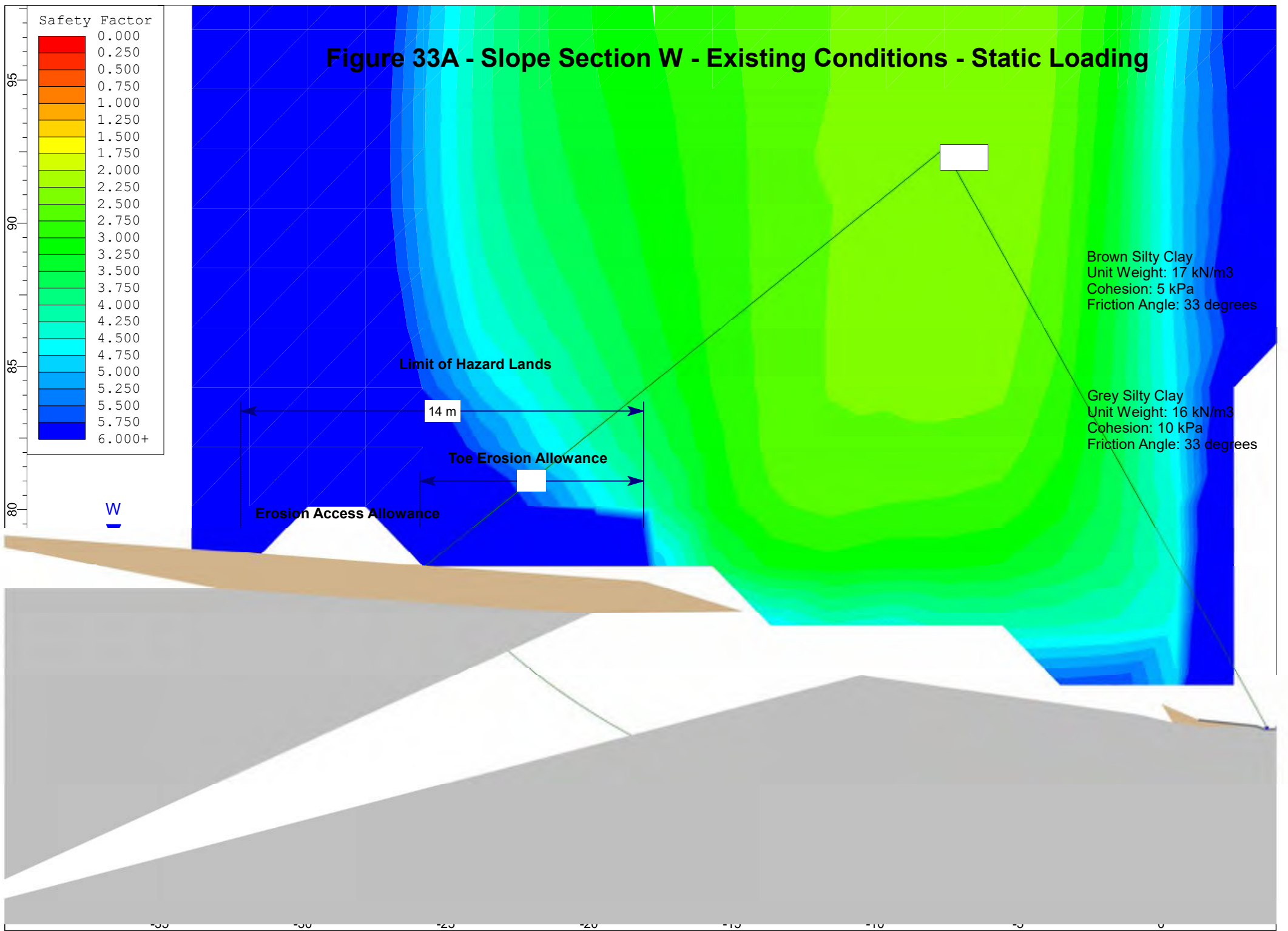
# Figure 32A - Slope Section V - Existing Conditions - Static Loading



# Figure 32B - Slope Section V - Existing Conditions - Seismic Loading

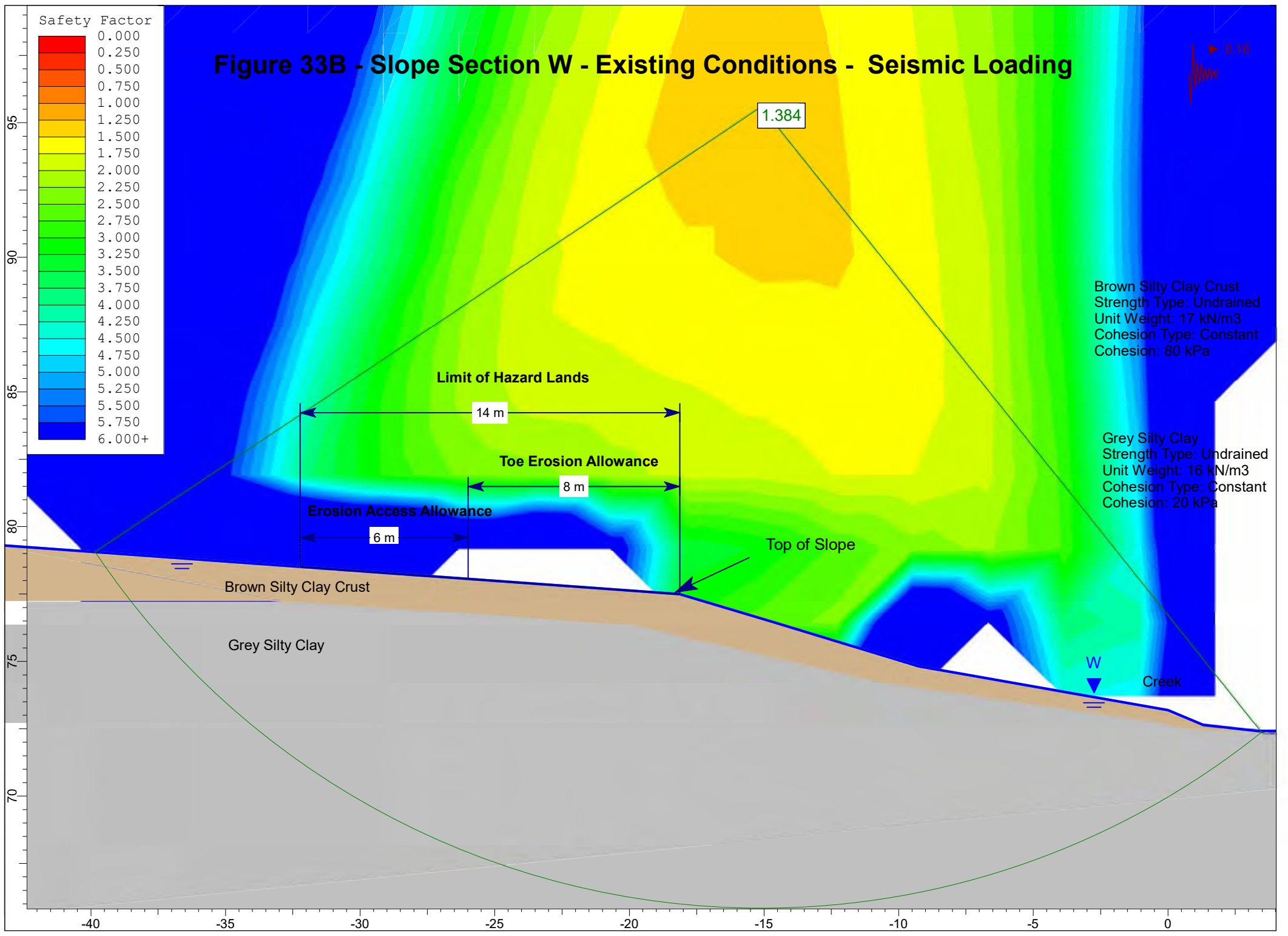


# Figure 33A - Slope Section W - Existing Conditions - Static Loading

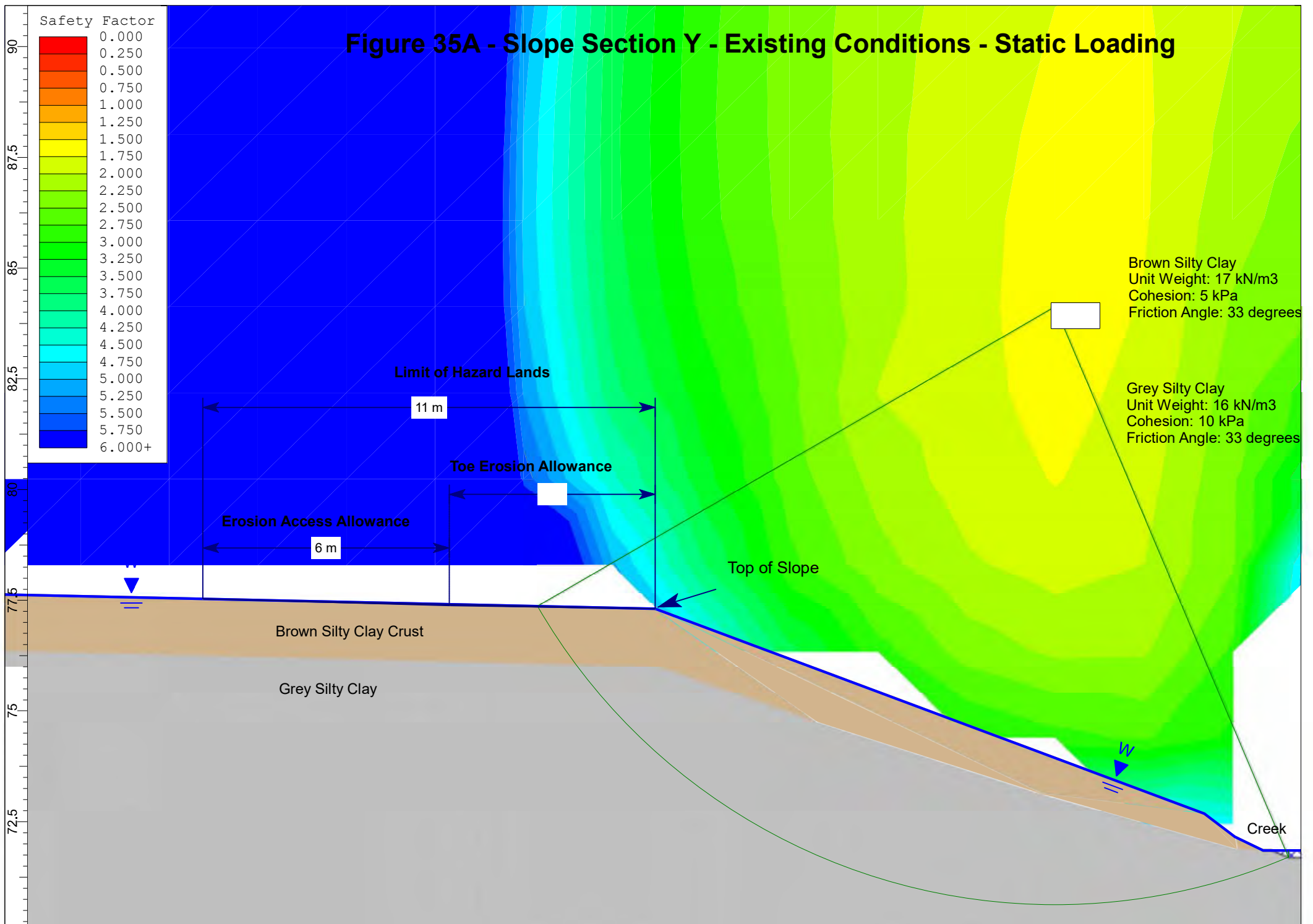




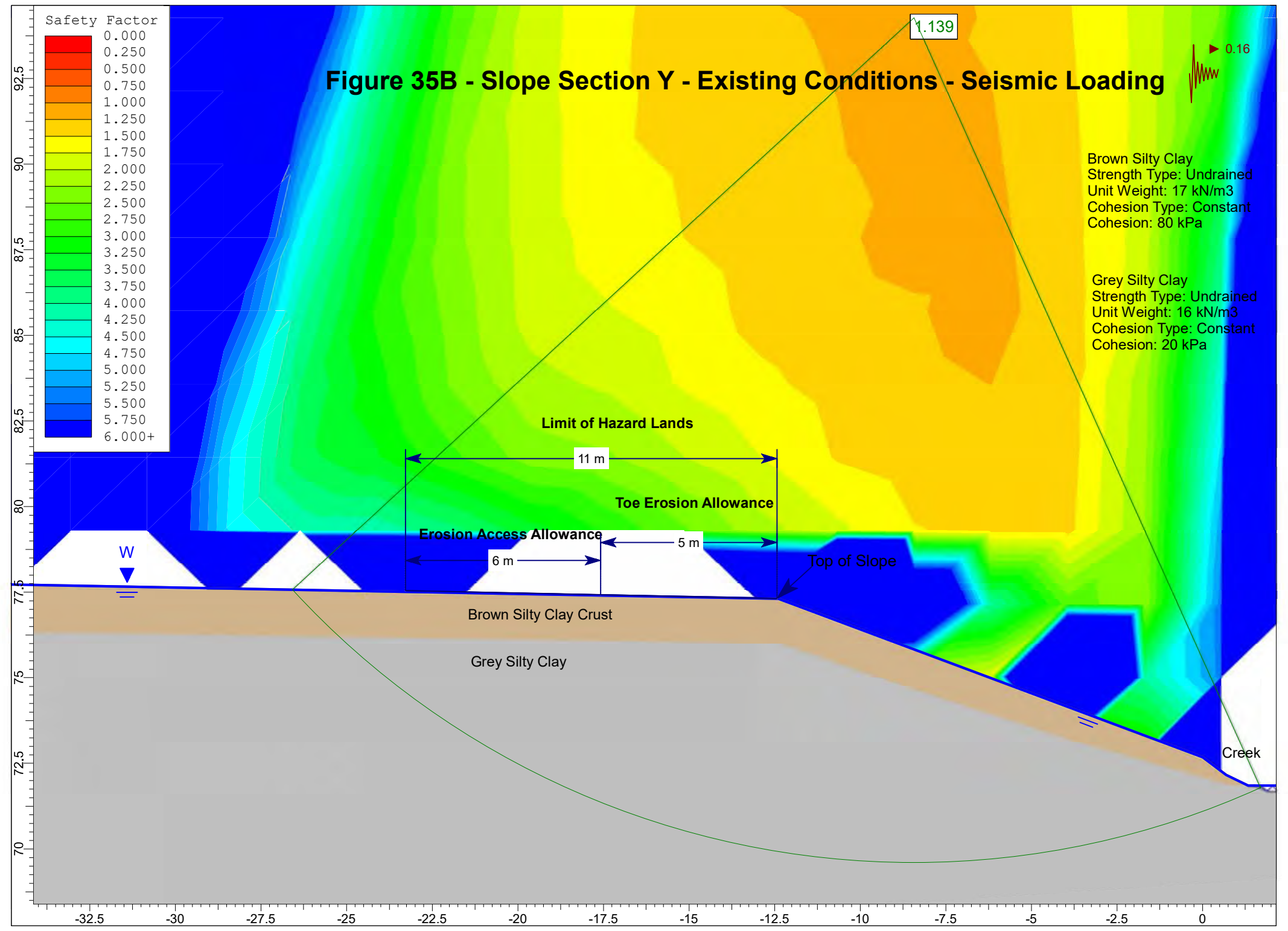
# Figure 33B - Slope Section W - Existing Conditions - Seismic Loading



# Figure 35A - Slope Section Y - Existing Conditions - Static Loading



**Figure 35B - Slope Section Y - Existing Conditions - Seismic Loading**



**Safety Factor**

0.000
0.250
0.500
0.750
1.000
1.250
1.500
1.750
2.000
2.250
2.500
2.750
3.000
3.250
3.500
3.750
4.000
4.250
4.500
4.750
5.000
5.250
5.500
5.750
6.000+

Brown Silty Clay  
 Strength Type: Undrained  
 Unit Weight: 17 kN/m<sup>3</sup>  
 Cohesion Type: Constant  
 Cohesion: 80 kPa

Grey Silty Clay  
 Strength Type: Undrained  
 Unit Weight: 16 kN/m<sup>3</sup>  
 Cohesion Type: Constant  
 Cohesion: 20 kPa

Limit of Hazard Lands

11 m

Toe Erosion Allowance

5 m

Erosion Access Allowance

6 m

Top of Slope

Brown Silty Clay Crust

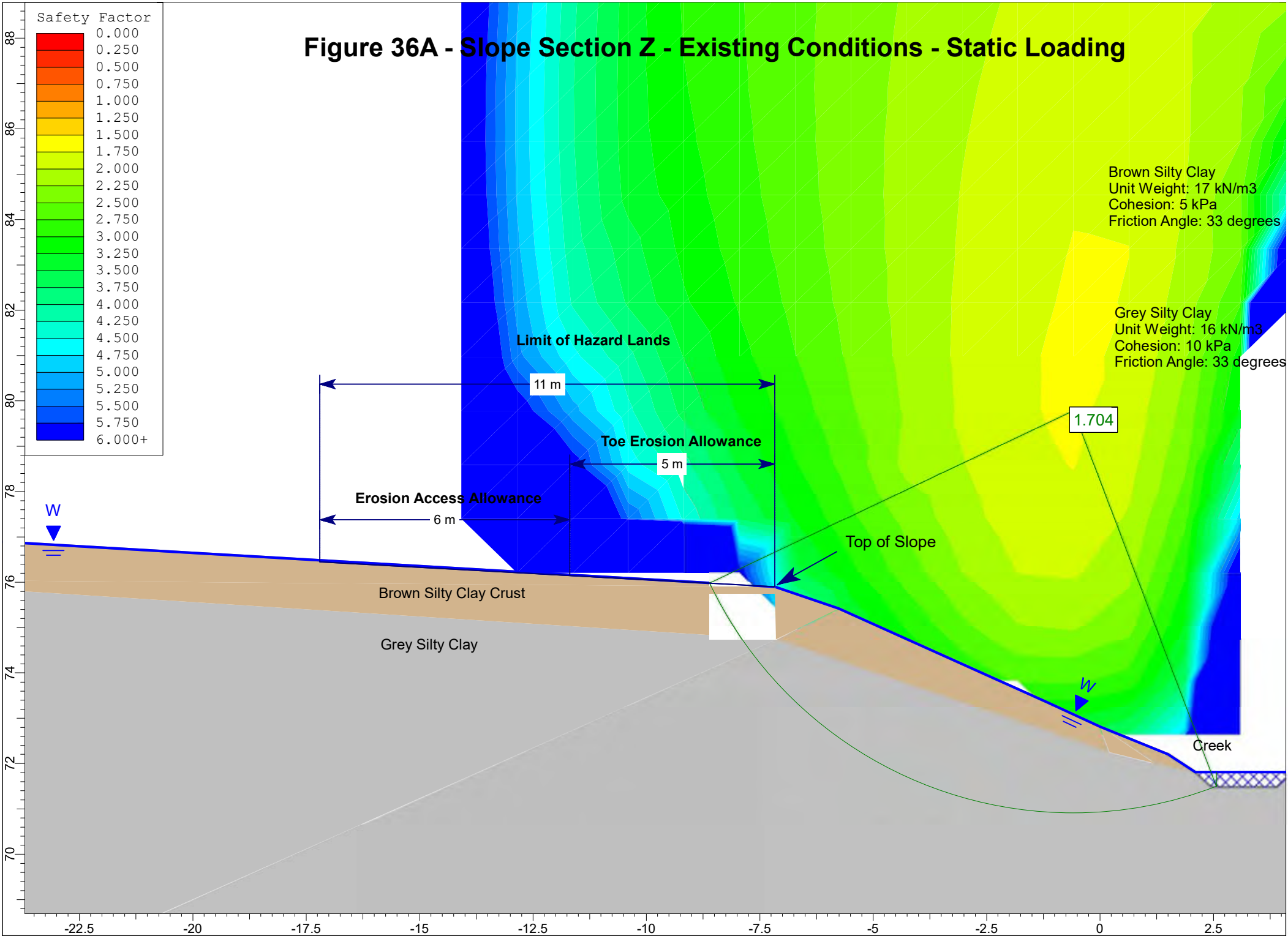
Grey Silty Clay

Creek

1.139

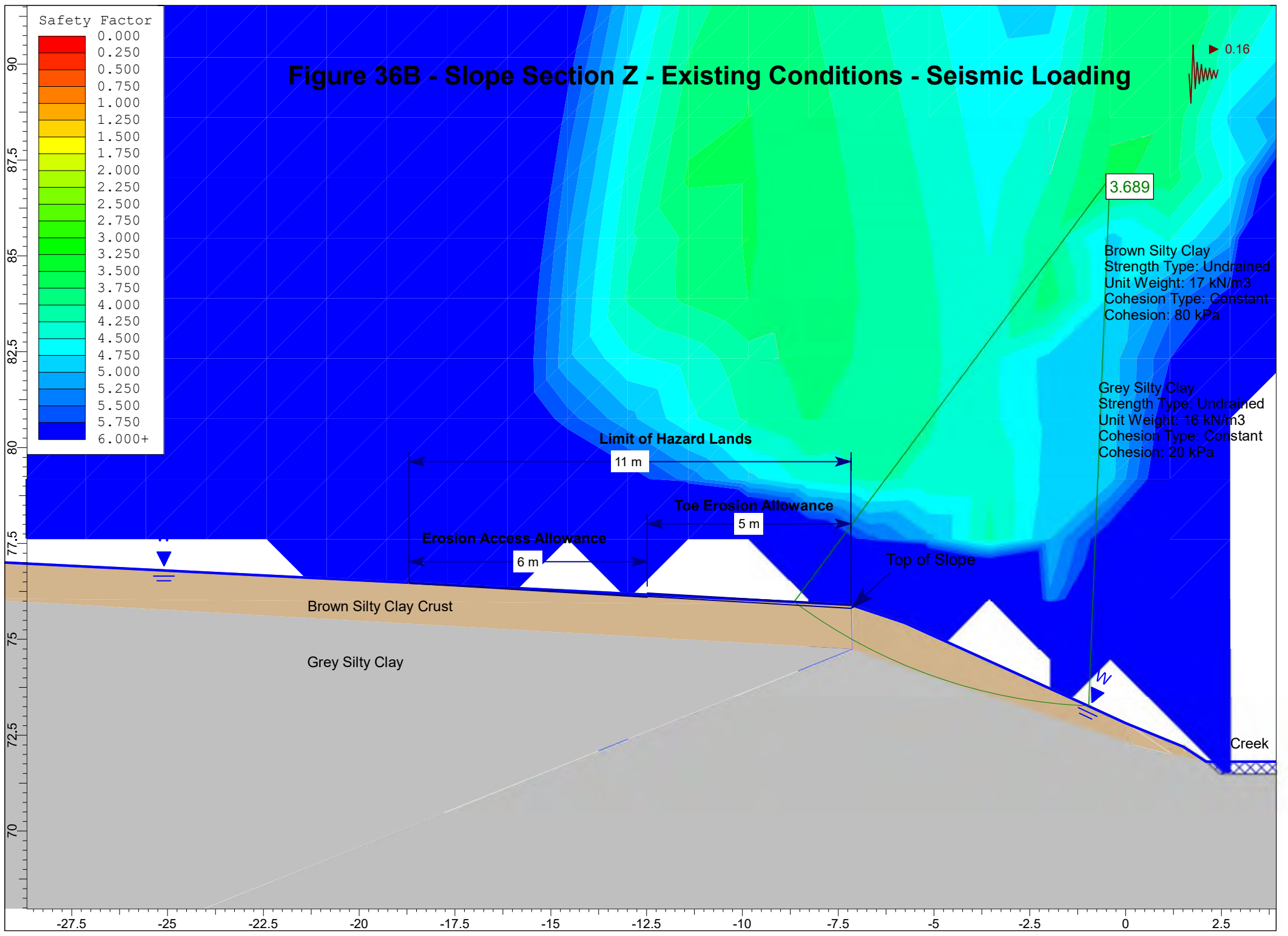
0.16

# Figure 36A - Slope Section Z - Existing Conditions - Static Loading

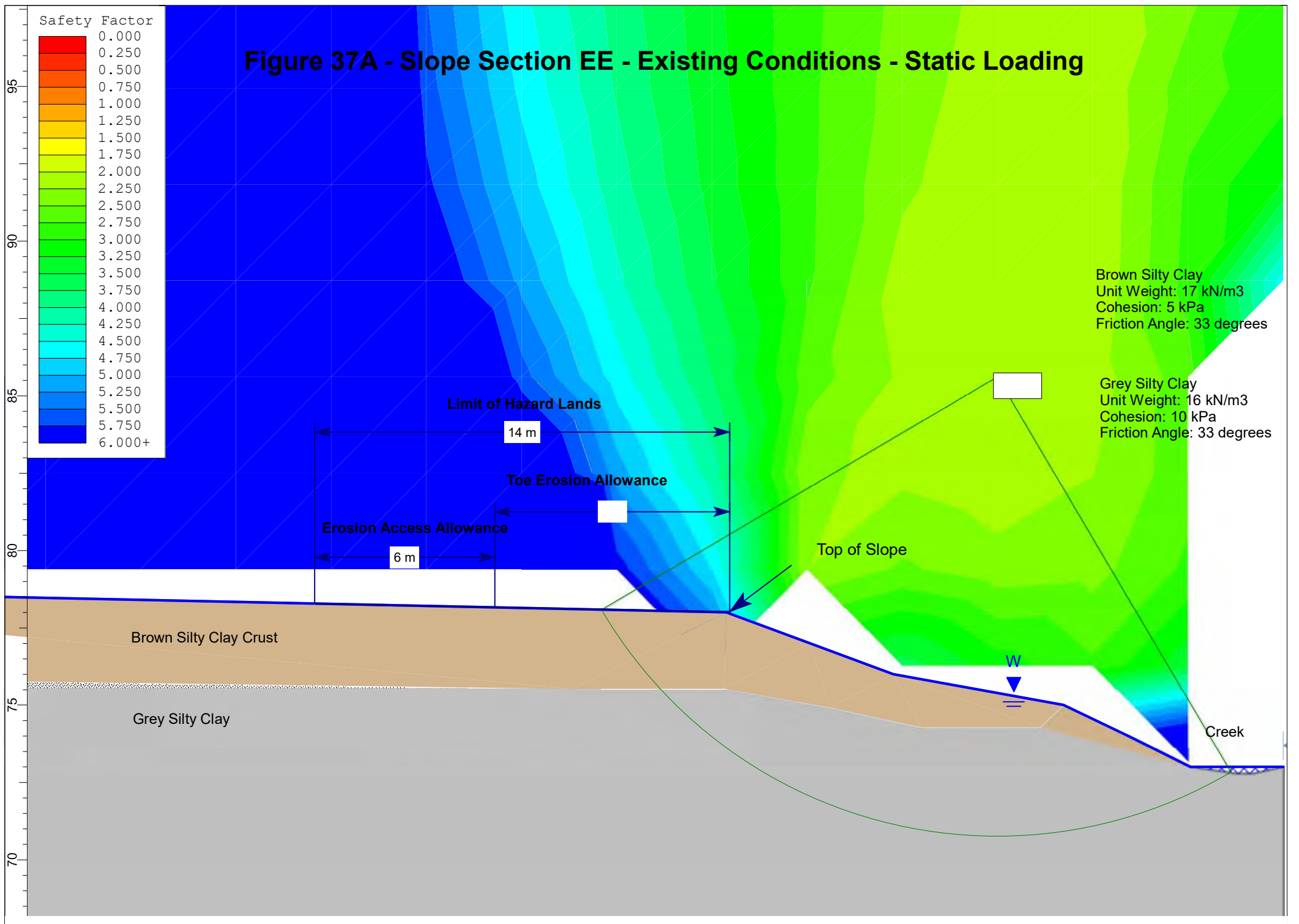




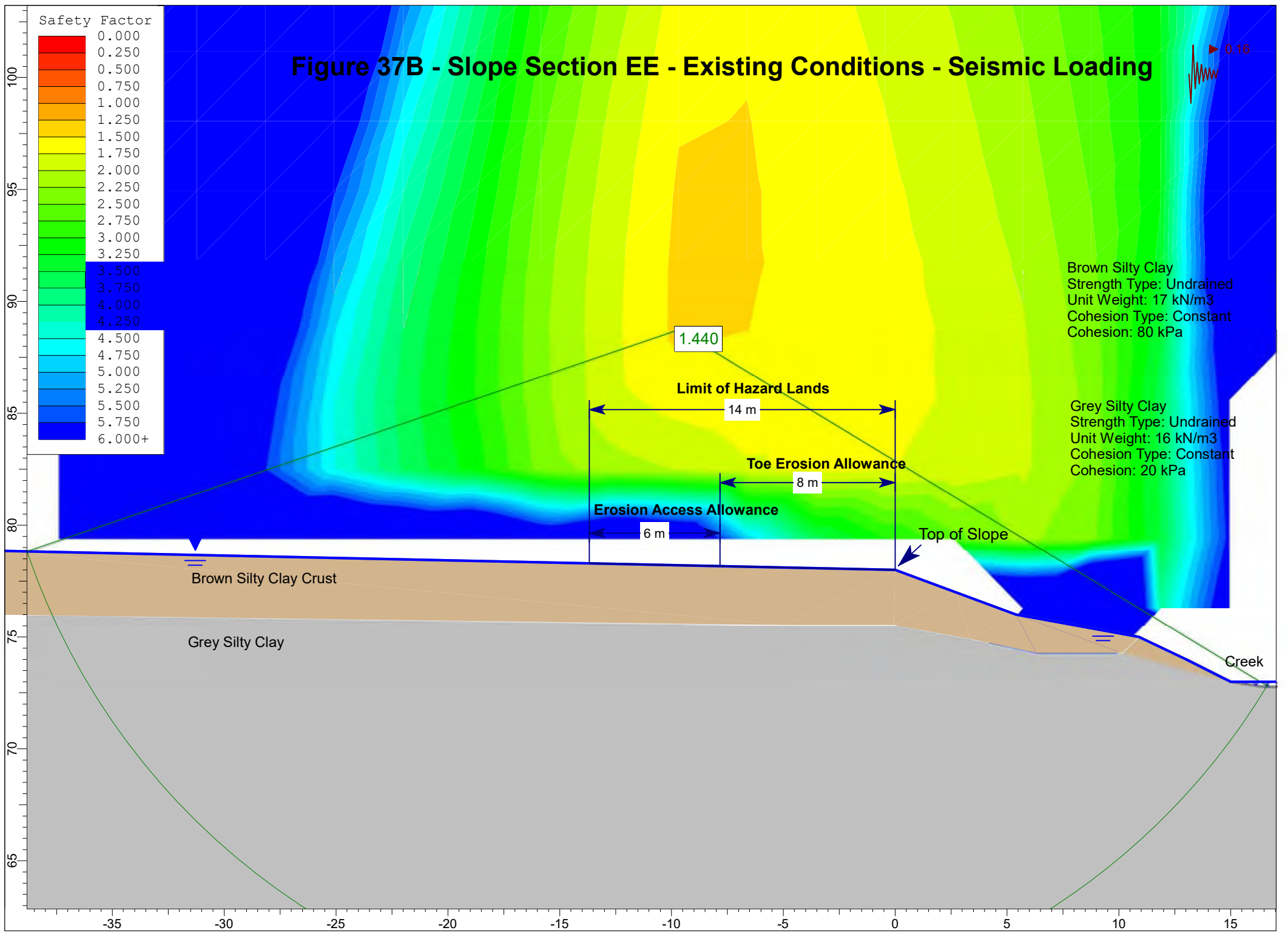
# Figure 36B - Slope Section Z - Existing Conditions - Seismic Loading



# Figure 37A - Slope Section EE - Existing Conditions - Static Loading



# Figure 37B - Slope Section EE - Existing Conditions - Seismic Loading



**Photo 1:** Area of Section A facing west and located along the Smith-Gooding municipal drain. The slope face was observed to be heavily vegetated with brush and mature trees. No notable erosion was observed in this area. The area of Section A was further observed to have a slope height of 2 m and an approximate steepness of 2.1H:1V.



**Photo 2:** Area of Section B and facing east. The slope face was observed to be heavily vegetated with brush and mature trees. Some minor erosion was observed along the toe of the slope consisting of exposed bare soil at the water level surface.





**Photo 3:** Area of Section E and facing south and located along the Smith-Gooding municipal drain. The slope face was observed to be heavily vegetated with brush, small and mature trees. Some portions of the slope face near the water surface were observed to lack mature vegetation and consist of almost bare soil. The area of Section E was further observed to have a slope height of 2.1 m and an approximate steepness of 1.7H:1V.



**Photo 4:** Area of Section F facing north and located along the Smith-Gooding municipal drain. The slope face was observed to be heavily vegetated with brush and mature trees on the abutting table lands. No notable erosion was observed in this area. The area of Section F was further observed to have a slope height of 1.6 m and an approximate steepness of 2.7H:1V.



**Photo 5:** Area of Section H facing east and located along the Smith-Gooding municipal drain. The slope face was observed to be heavily vegetated with brush. Signs of previous slip surfaces assumed to have been caused by erosion were observed in this area, however, vegetation appeared established in the affected slope face. The area of Section H was further observed to have a slope height of 1.5 m and an approximate steepness of 1.1H:1V.



**Photo 6:** Area of Section K facing west and located along the Smith-Gooding municipal drain. The slope face was observed to be heavily vegetated with brush and mature trees located on the slope and the adjacent golf course. No notable erosion was observed in this area.





**Photo 7:** Area of Section L facing east and located along the Smith-Gooding municipal drain. The slope face was observed to be heavily vegetated with brush, mature trees, with agricultural land on the abutting table lands. No notable erosion was observed in this area. The area of Section L was further observed to have a slope height of 0.5 m and an approximate steepness of 1.0H:1V.



**Photo 8:** Area of Section N facing northwest and located along the Smith-Gooding municipal drain. The slope face was observed to be heavily vegetated with brush and mature trees. No notable erosion was observed in this area. The area of Section N was further observed to have a slope height of 0.5 m and an approximate steepness of 1.3H:1V.



**Photo 9:** Area of Section O, facing west and located along the Smith-Gooding municipal drain. The slope face was observed to be heavily vegetated with brush and mature trees. The toe of the slope, which generally consisted of the banks edge, was observed to consist of bare soil which indicated some erosion was present throughout this area. The area of Section O was further observed to have a slope height of 0.5 m and an approximate steepness of 0.8H:1V.



**Photo 10:** Area of Section P and facing east. The slope face was observed to be heavily vegetated with brush and some mature trees on the slope face and abutting table lands, respectively. Signs of erosion consisting of bare soil with lack of mature vegetation was observed along some portions of the toe of the slope.





**Photo 11:** Area of Section Q, facing east and located along the Smith-Gooding municipal drain. The slope face was observed to be heavily vegetated with brush and mature trees. The toe of slope for some portions of the channel appeared to consist of a bare soil surface at the observed water level. Further, previous slip surface slough was observed at the toe of slope, however, the remaining slope face was observed to be covered in mature vegetation. The area of Section P was further observed to have a slope height of 3.0 m and an approximate steepness of 3.5H:1V.



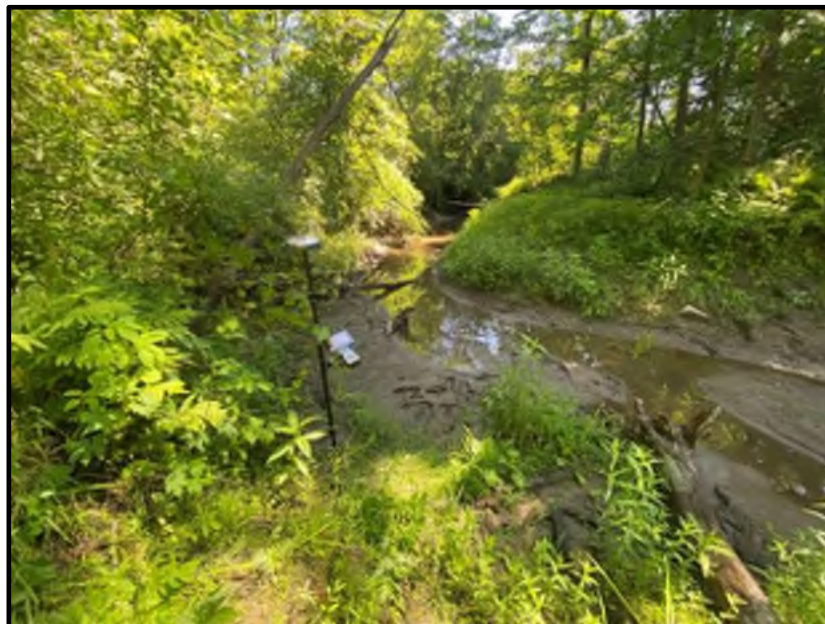
**Photo 12:** Area of Section R and facing. The slope face was observed to be heavily vegetated with brush and mature trees. No notable erosion was observed in this area. The area of Section O was further observed to have a slope height of 0.9 m and an approximate steepness of 0.9H:1V.



**Photo 13:** Area of Section U facing south and located along a small ditch northeast of the Johnston municipal drain. The slope face was observed to be heavily vegetated with brush and mature trees. No erosion or water was observed throughout this area at the time of our site visit.



**Photo 14:** Area of Section Z and facing south. The slope face was observed to be heavily vegetated with brush and mature trees. Signs of recent active erosion consisting of bare soil along slope surfaces near the water surface were observed. Sloughing or movement within the slope surfaces were not observed. The water level appeared to be stagnant at the time of our site visit.





**Photo 15:** Area between Section Y and Section BB and facing southwest. The slope face was observed to be heavily vegetated with brush and mature trees. The toe of slope in contact with the water level was observed to be bare from recent active erosion. However, the remainder of the slope face appeared to be covered with vegetation.



**Photo 16:** Area of Section AA and facing southwest. The slope face was observed to be heavily vegetated with brush and mature trees. Some minor erosion was noted along the toe of the slope along bends in the watercourse alignment.



**Photo 17:** Area of Section DD and facing north. The slope face was observed to be heavily vegetated with brush and mature trees. Some portions of the toe of slope were observed to consist of bare soil with no mature vegetation, along with some undercutting below vegetated and unaffected portions of the watercourse alignment.



**Photo 18:** Area of Section EE, facing south and located along the Johnston municipal drain. The slope face was observed to be vegetated with brush, and heavily covered with mature trees. Undercutting and erosion was observed along the watercourse alignment. The undercutting and erosion generally resulted in the exposure of some tree roots and may have contributed to several trees to have fallen. The remaining slope surface appeared to be stable, however, did not have mature vegetation intact at the time of our visit.





**Photo 19:** Area of Section GG facing northwest and located along the Johnston municipal drain. The slope face was observed to be heavily vegetated with brush and mature trees. No notable erosion was observed in this area. The area of Section GG was further observed to have a slope height of 2.4 m and an approximate steepness of 2.4H:1V.



**Photo 20:** Area of Section CC and facing north. The slope face was observed to be slightly covered in vegetation and tree roots. Signs of erosion consisting of bare soil with lack of mature vegetation and undercutting along the channels edge was observed along some portions of the toe of the slope. The area of Section CC was further observed to have a slope height of 4.1 m and an approximate steepness of 6.6H:1V. (Photo taken October 2022)



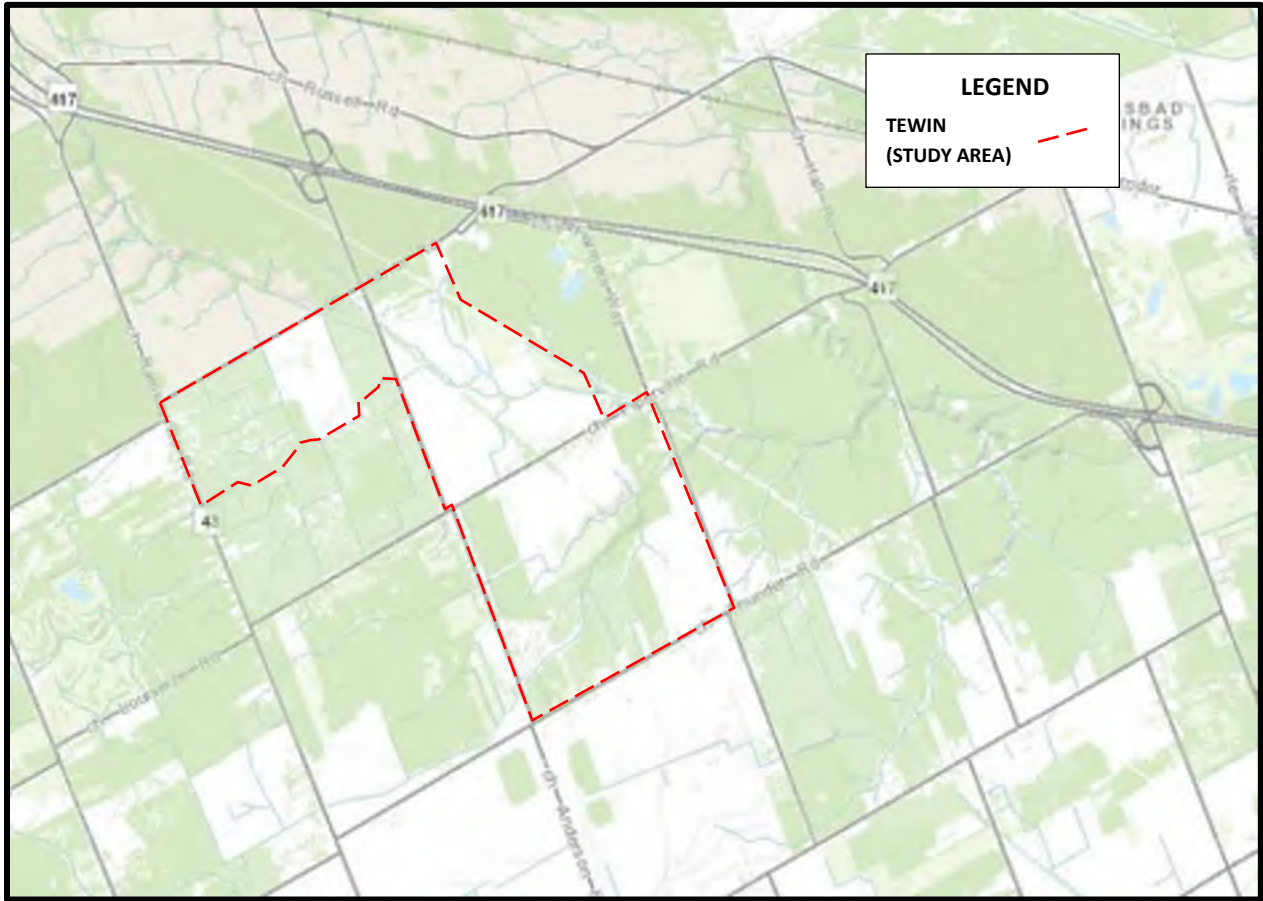
**Photo 21:** Area south of Section W and facing south. The slope face was observed to be covered with brush and mature trees. Signs of erosion consisting of bare soil with lack of mature vegetation and undercutting along the channels edge was observed along some portions of the toe of the slope. (Photo taken October 2022)



**Photo 22:** Area west of Section BB and facing southwest. The slope face was observed to be surfaced with vegetation consisting of brush and mature trees. Small slip surfaces were observed in proximity to the watercourse. Further, the toe of slope in proximity to the slip surfaces were observed to consist of bare soil lacking mature vegetation. The remainder of the slope surface appeared to be stable and be surfaced with mature vegetation (Photo taken October 2022).



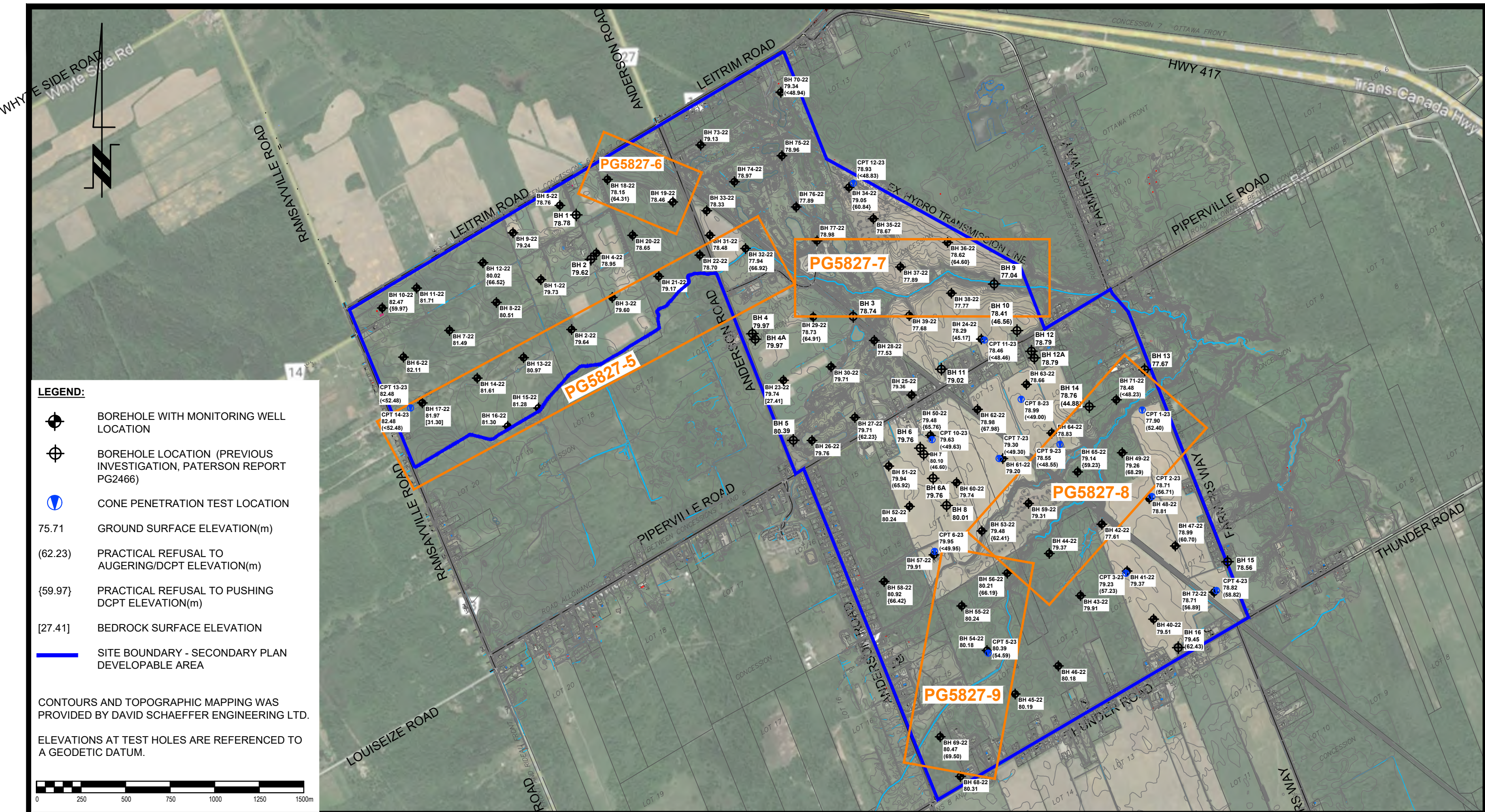




# FIGURE 38

## KEY PLAN





**LEGEND:**

- BOREHOLE WITH MONITORING WELL LOCATION
- BOREHOLE LOCATION (PREVIOUS INVESTIGATION, PATERSON REPORT PG2466)
- CONE PENETRATION TEST LOCATION
- 75.71 GROUND SURFACE ELEVATION(m)
- (62.23) PRACTICAL REFUSAL TO AUGERING/DCPT ELEVATION(m)
- {59.97} PRACTICAL REFUSAL TO PUSHING DCPT ELEVATION(m)
- [27.41] BEDROCK SURFACE ELEVATION
- SITE BOUNDARY - SECONDARY PLAN DEVELOPABLE AREA

CONTOURS AND TOPOGRAPHIC MAPPING WAS PROVIDED BY DAVID SCHAEFFER ENGINEERING LTD.

ELEVATIONS AT TEST HOLES ARE REFERENCED TO A GEODETIC DATUM.



<p>9 AURIGA DRIVE OTTAWA, ON K2E 7S9 TEL: (613) 226-7381</p>			
	1	BH25-22, BH70-22, BH73-22 TO BH77-22 ADDED	05/12/2022 DP
NO.	REVISIONS	DATE	INITIAL

**TAGGART INVESTMENTS AND ALGONQUINS OF ONTARIO**

**TEWIN LANDS**

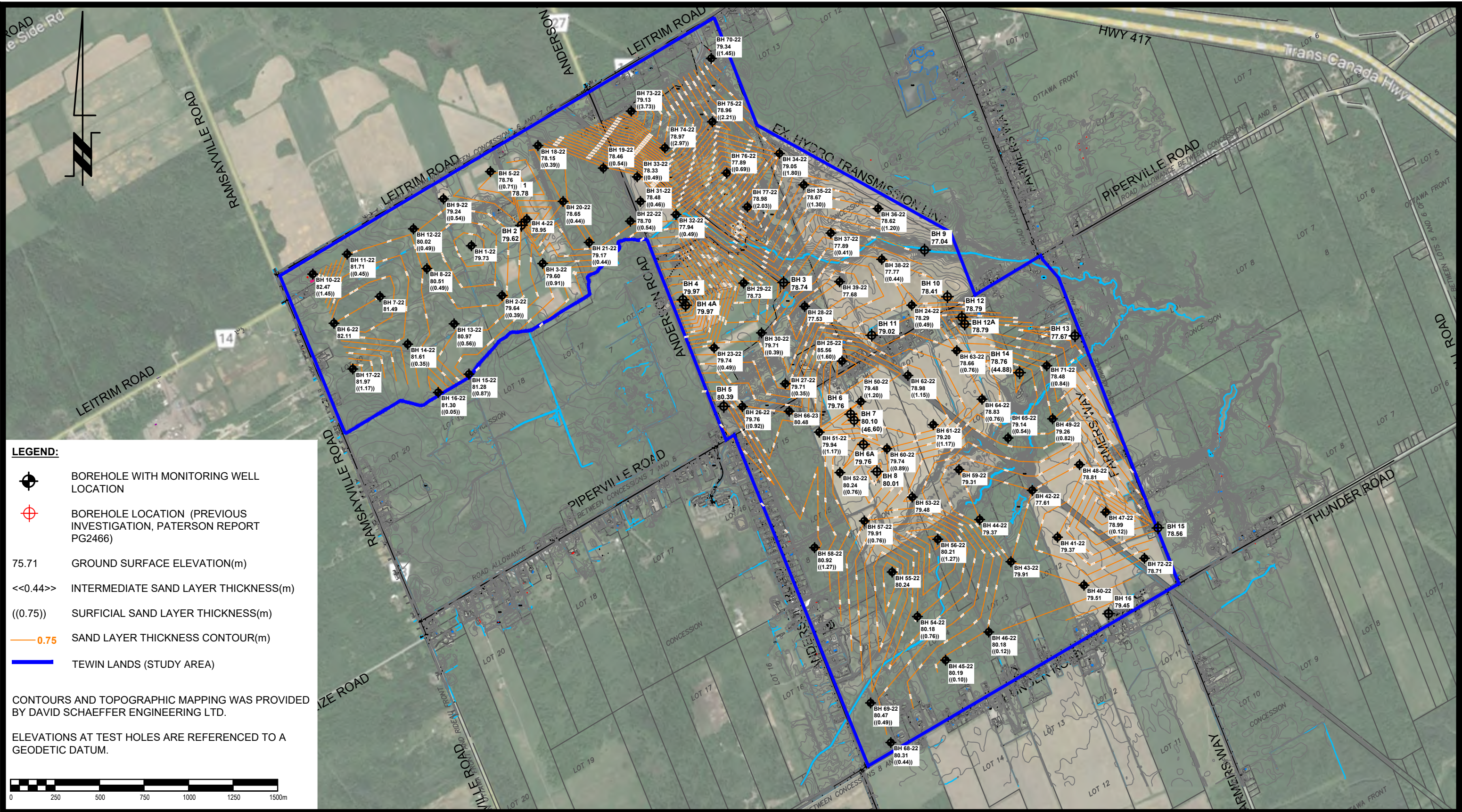
**OTTAWA, ONTARIO**





**TEST HOLE LOCATION PLAN**

Scale:	1:2000	Date:	07/2022
Drawn by:	RCG	Report No.:	PG5827-1
Checked by:	DP	Dwg. No.:	<b>PG5827-1</b>
Approved by:	DJG	Revision No.:	1

p:\autocad drawings\geotechnical\pg5827\pg5827-1 thp latest (jan 2023).dwg

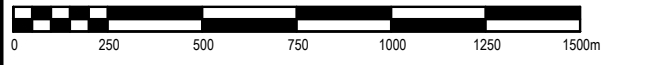




- LEGEND:**
-  BOREHOLE WITH MONITORING WELL LOCATION
  -  BOREHOLE LOCATION (PREVIOUS INVESTIGATION, PATERSON REPORT PG2466)
  - 75.71 GROUND SURFACE ELEVATION(m)
  - <<0.44>> INTERMEDIATE SAND LAYER THICKNESS(m)
  - ((0.75)) SURFICIAL SAND LAYER THICKNESS(m)
  -  0.75 SAND LAYER THICKNESS CONTOUR(m)
  -  TEWIN LANDS (STUDY AREA)

CONTOURS AND TOPOGRAPHIC MAPPING WAS PROVIDED BY DAVID SCHAEFFER ENGINEERING LTD.

ELEVATIONS AT TEST HOLES ARE REFERENCED TO A GEODETIC DATUM.




9 AURIGA DRIVE  
OTTAWA, ON  
K2E 7S9  
TEL: (613) 226-7381

NO.	REVISIONS	DATE	INITIAL

**TAGGART INVESTMENTS AND ALGONQUINS OF ONTARIO**

**TWIN LANDS**

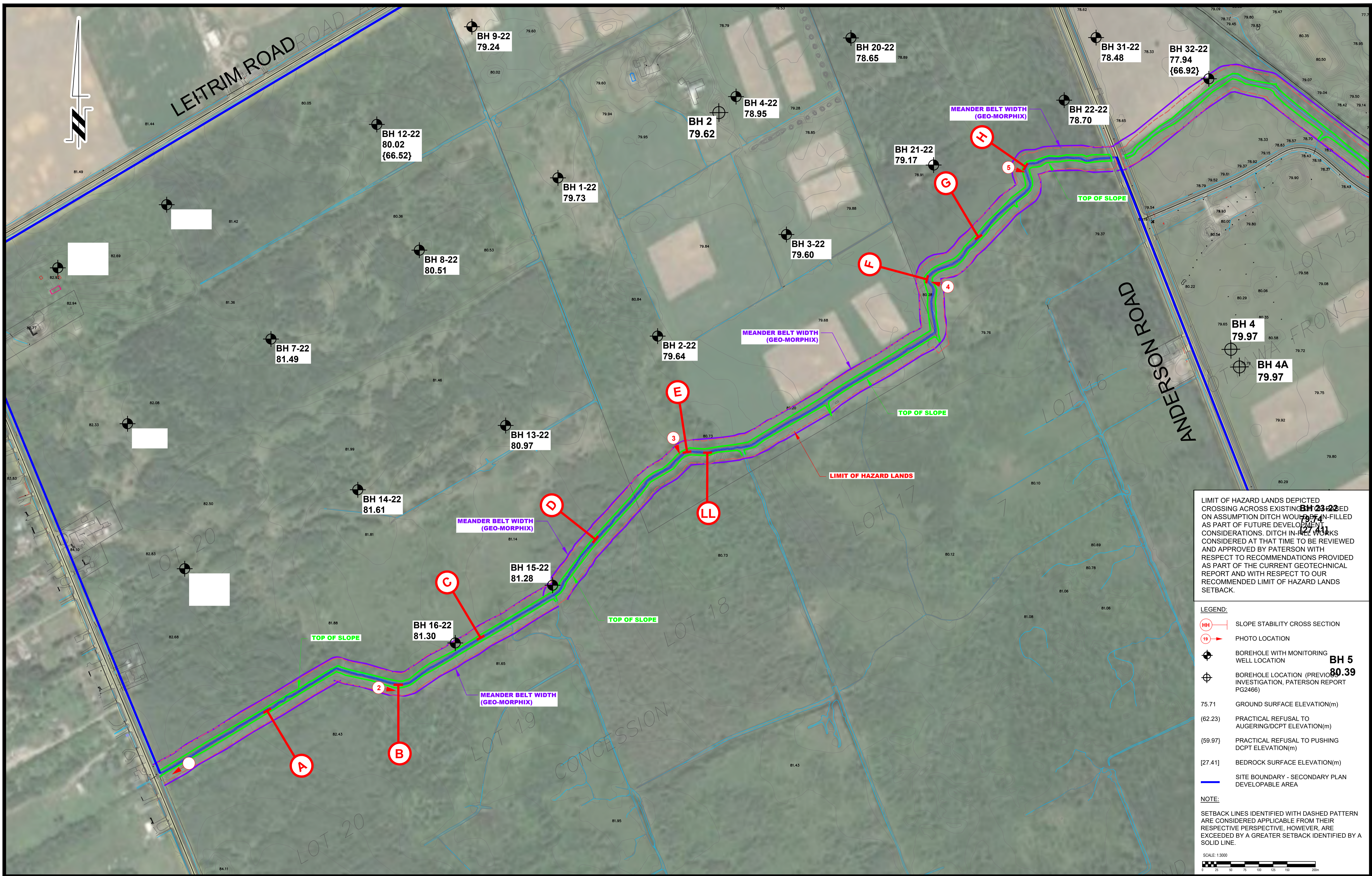
OTTAWA, ONTARIO

Title: **SURFICIAL SAND LAYER THICKNESS CONTOUR PLAN**

Scale:	1:20000	Date:	07/2022
Drawn by:	RCG	Report No.:	PG5827-1
Checked by:	DP	<b>PG5827-3</b>	Revision No.:
Approved by:	DJG		

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LIMIT OF HAZARD LANDS DEPICTED CROSSING ACROSS EXISTING DITCH ON ASSUMPTION DITCH WOULD BE INFILLED AS PART OF FUTURE DEVELOPMENT CONSIDERATIONS. DITCH INFILL WORKS CONSIDERED AT THAT TIME TO BE REVIEWED AND APPROVED BY PATERSON WITH RESPECT TO RECOMMENDATIONS PROVIDED AS PART OF THE CURRENT GEOTECHNICAL REPORT AND WITH RESPECT TO OUR RECOMMENDED LIMIT OF HAZARD LANDS SETBACK.

**LEGEND:**

- SLOPE STABILITY CROSS SECTION
- PHOTO LOCATION
- BOREHOLE WITH MONITORING WELL LOCATION
- BOREHOLE LOCATION (PREVIOUS INVESTIGATION, PATERSON REPORT PG2466)
- 75.71 GROUND SURFACE ELEVATION(m)
- (62.23) PRACTICAL REFUSAL TO AUGERING/DCPT ELEVATION(m)
- (59.97) PRACTICAL REFUSAL TO PUSHING DCPT ELEVATION(m)
- [27.41] BEDROCK SURFACE ELEVATION(m)
- SITE BOUNDARY - SECONDARY PLAN DEVELOPABLE AREA

**NOTE:**

SETBACK LINES IDENTIFIED WITH DASHED PATTERN ARE CONSIDERED APPLICABLE FROM THEIR RESPECTIVE PERSPECTIVE, HOWEVER, ARE EXCEEDED BY A GREATER SETBACK IDENTIFIED BY A SOLID LINE.

SCALE: 1:3000

9 AURIGA DRIVE  
OTTAWA, ON  
K2E 7S9  
TEL: (613) 226-7381

NO.	REVISIONS	DATE	INITIAL
1	ADDED MEANDER BELT WIDTH BY GEO-MORPHIX	27/09/2024	DP

TAGGART INVESTMENTS AND ALGONQUINS OF ONTARIO

## TEWIN LANDS

# LIMIT OF HAZARD LANDS PLAN

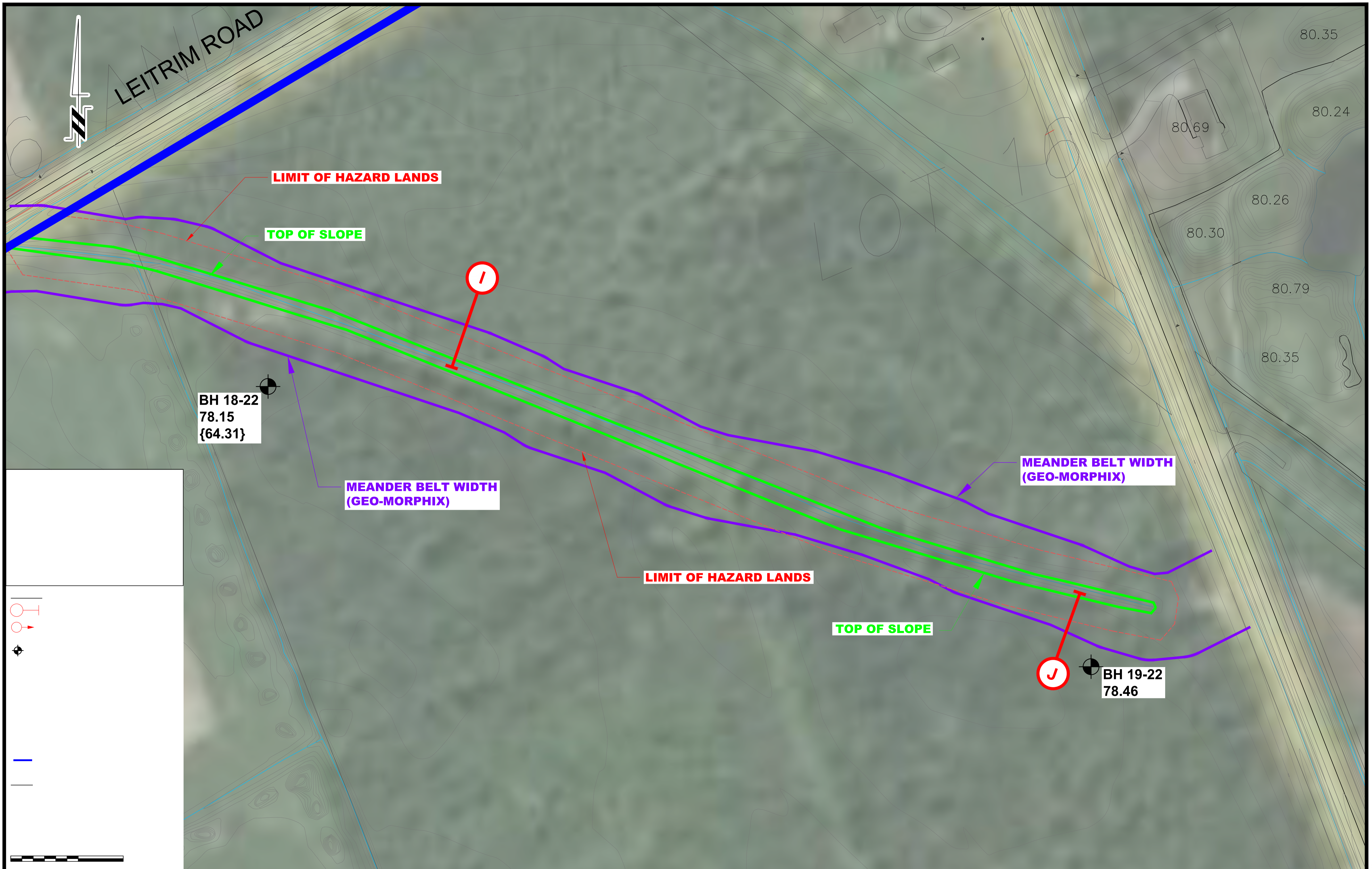
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Stamp: \_\_\_\_\_

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Drawn by: NFRV	Drawing No.:
Checked by: OM	<b>PG5827-5</b>
Approved by: DJG	Revision No.: 1
Date: 09/2022	

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BH 18-22  
78.15  
{64.31}

BH 19-22  
78.46

9 AURIGA DRIVE  
OTTAWA, ON  
K2E 7S9  
TEL: (613) 226-7381

1:750

Scale: 1:750

Drawn by: NFRV

Checked by: OM

Approved by: DJG

Date: 09/2022

NO.	REVISIONS	DATE	INITIAL
1	ADDED MEANDER BELT WIDTH BY GEO-MORPHIX	27/09/2024	DP

TAGGART INVESTMENTS AND ALGONQUINS OF ONTARIO

**TEWIN LANDS**

**LIMIT OF HAZARD LANDS PLAN**

Title:

Stamp:

Scale: 1:750

Drawn by: NFRV

Checked by: OM

Approved by: DJG

Date: 09/2022

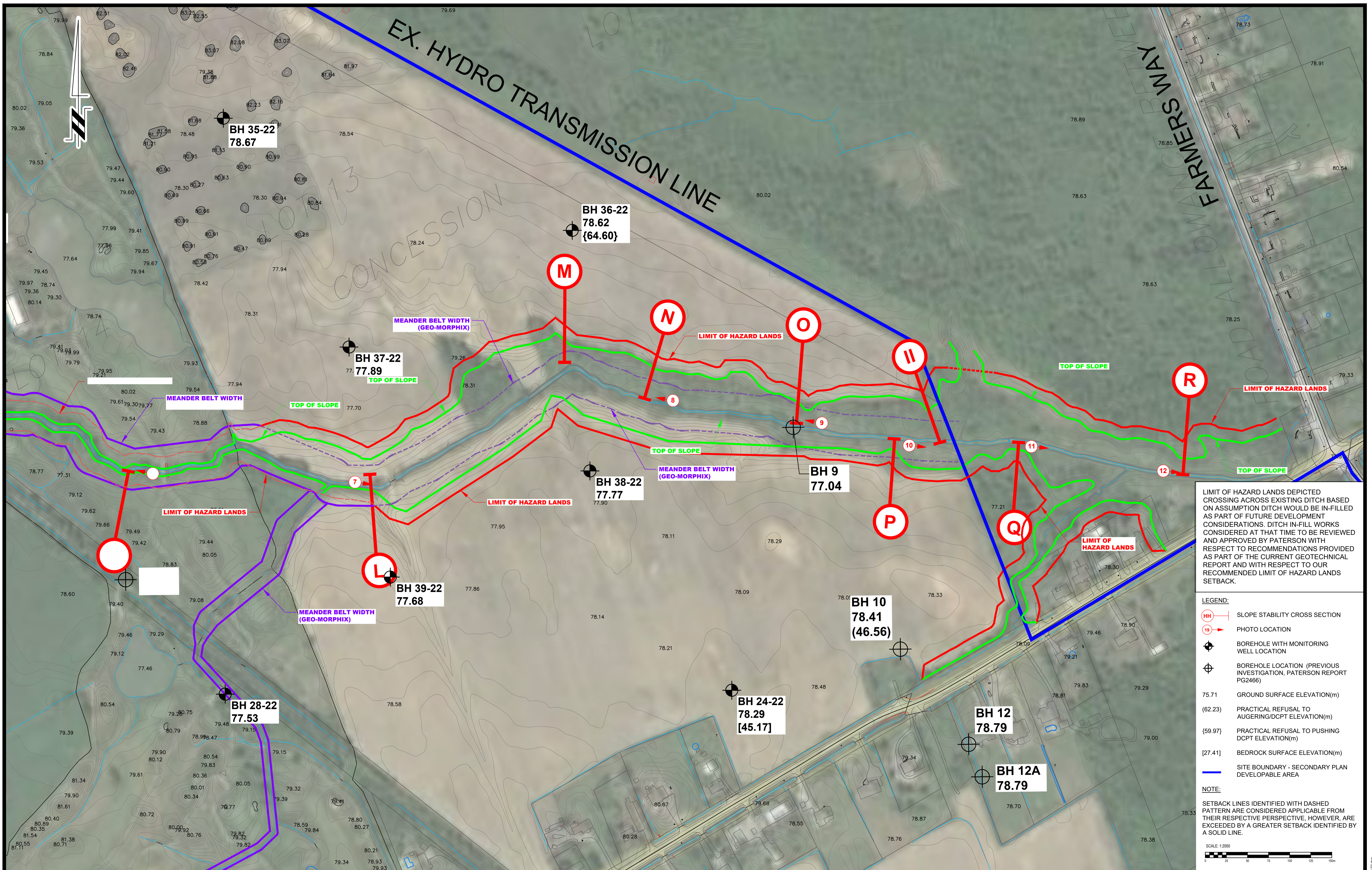
Report No.: **PG5827-1**

Drawing No.: **PG5827-6**

Revision No.: 1







LIMIT OF HAZARD LANDS DEPICTED CROSSING ACROSS EXISTING DITCH BASED ON ASSUMPTION DITCH WOULD BE IN-FILLED AS PART OF FUTURE DEVELOPMENT CONSIDERATIONS. DITCH IN-FILL WORKS CONSIDERED AT THAT TIME TO BE REVIEWED AND APPROVED BY PATERSON WITH RESPECT TO RECOMMENDATIONS PROVIDED AS PART OF THE CURRENT GEOTECHNICAL REPORT AND WITH RESPECT TO OUR RECOMMENDED LIMIT OF HAZARD LANDS SETBACK.

**LEGEND:**

- SLOPE STABILITY CROSS SECTION
- PHOTO LOCATION
- BOREHOLE WITH MONITORING WELL LOCATION
- BOREHOLE LOCATION (PREVIOUS INVESTIGATION, PATERSON REPORT PG2466)
- 75.71 GROUND SURFACE ELEVATION(m)
- {62.23} PRACTICAL REFUSAL TO AUGERING/DCPT ELEVATION(m)
- {59.97} PRACTICAL REFUSAL TO PUSHING DCPT ELEVATION(m)
- [27.41] BEDROCK SURFACE ELEVATION(m)
- SITE BOUNDARY - SECONDARY PLAN DEVELOPABLE AREA

**NOTE:**

SETBACK LINES IDENTIFIED WITH DASHED FROM PATERSON ARE CONSIDERED APPLICABLE FROM THEIR RESPECTIVE PERSPECTIVE, HOWEVER, ARE EXCEEDED BY A GREATER SETBACK IDENTIFIED BY A SOLID LINE.

SCALE: 1:2000

9 AURIGA DRIVE  
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NO.	REVISIONS	DATE	INITIAL
1	ADDED MEANDER BELT WIDTH BY GEO-MORPHIX	27/09/2024	DP

TAGGART INVESTMENTS AND ALGONQUINS OF ONTARIO

## TEWIN LANDS

# LIMIT OF HAZARD LANDS PLAN

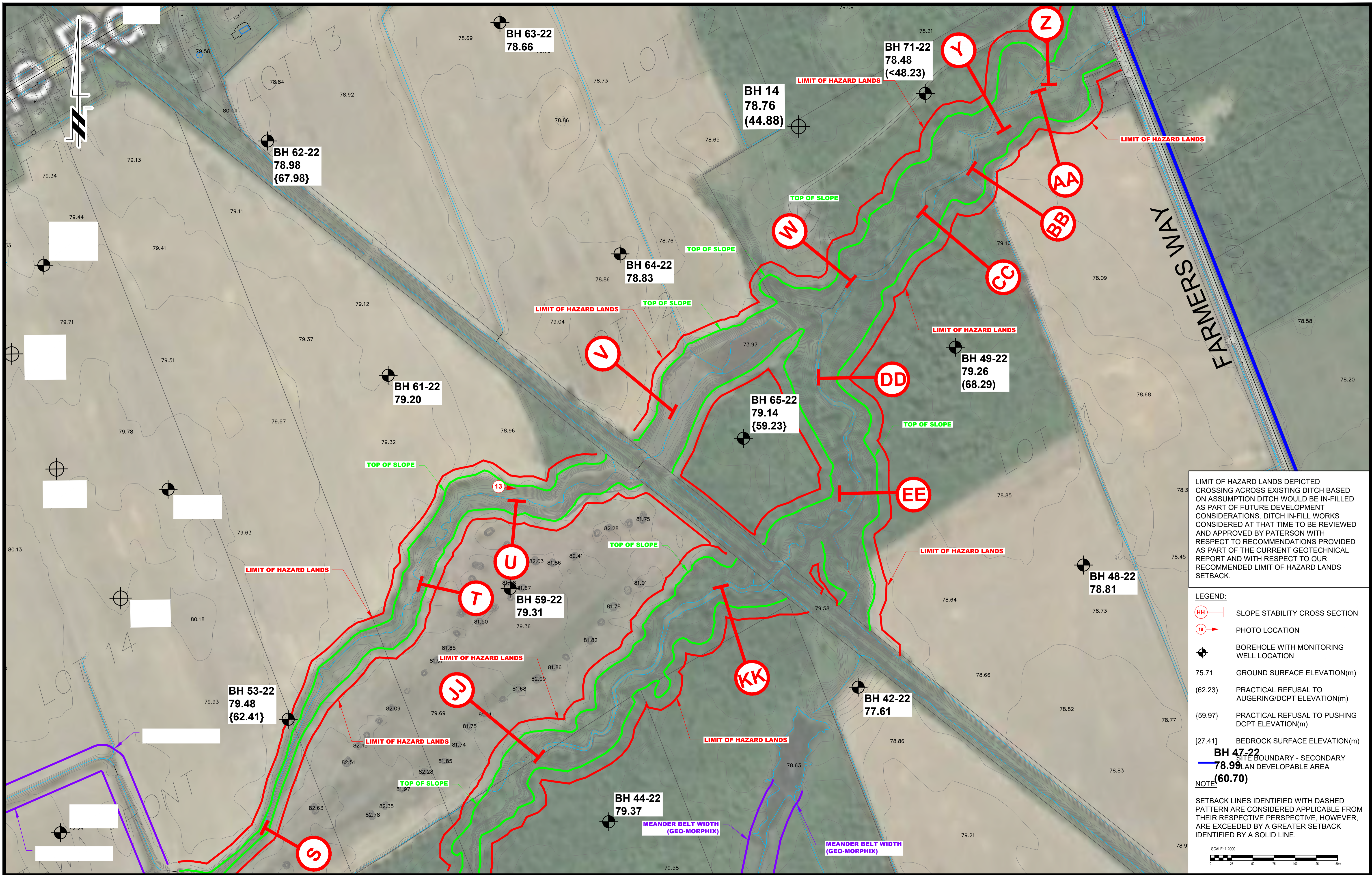
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Scale:	1:2000	Report No.:	PG5827-1
Drawn by:	NFRV	Drawing No.:	
Checked by:	OM		PG5827-7
Approved by:	DJG		
Date:	09/2022	Revision No.:	1

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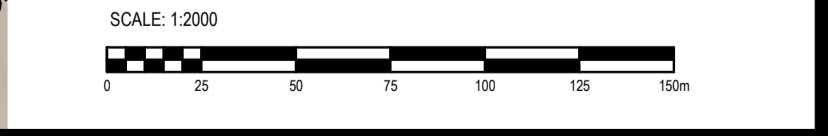




LIMIT OF HAZARD LANDS DEPICTED CROSSING ACROSS EXISTING DITCH BASED ON ASSUMPTION DITCH WOULD BE IN-FILLED AS PART OF FUTURE DEVELOPMENT CONSIDERATIONS. DITCH IN-FILL WORKS CONSIDERED AT THAT TIME TO BE REVIEWED AND APPROVED BY PATERSON WITH RESPECT TO RECOMMENDATIONS PROVIDED AS PART OF THE CURRENT GEOTECHNICAL REPORT AND WITH RESPECT TO OUR RECOMMENDED LIMIT OF HAZARD LANDS SETBACK.

- LEGEND:**
- (HH) SLOPE STABILITY CROSS SECTION
  - (13) PHOTO LOCATION
  - BOREHOLE WITH MONITORING WELL LOCATION
  - 75.71 GROUND SURFACE ELEVATION(m)
  - (62.23) PRACTICAL REFUSAL TO AUGERING/DCPT ELEVATION(m)
  - (59.97) PRACTICAL REFUSAL TO PUSHING DCPT ELEVATION(m)
  - [27.41] BEDROCK SURFACE ELEVATION(m)
  - BH 47-22 SITE BOUNDARY - SECONDARY
  - 78.99 DEVELOPABLE AREA
  - (60.70)

**NOTE:**  
SETBACK LINES IDENTIFIED WITH DASHED PATTERN ARE CONSIDERED APPLICABLE FROM THEIR RESPECTIVE PERSPECTIVE, HOWEVER, ARE EXCEEDED BY A GREATER SETBACK IDENTIFIED BY A SOLID LINE.



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TAGGART INVESTMENTS AND ALGONQUINS OF ONTARIO

## TEWIN LANDS

# LIMIT OF HAZARD LANDS PLAN

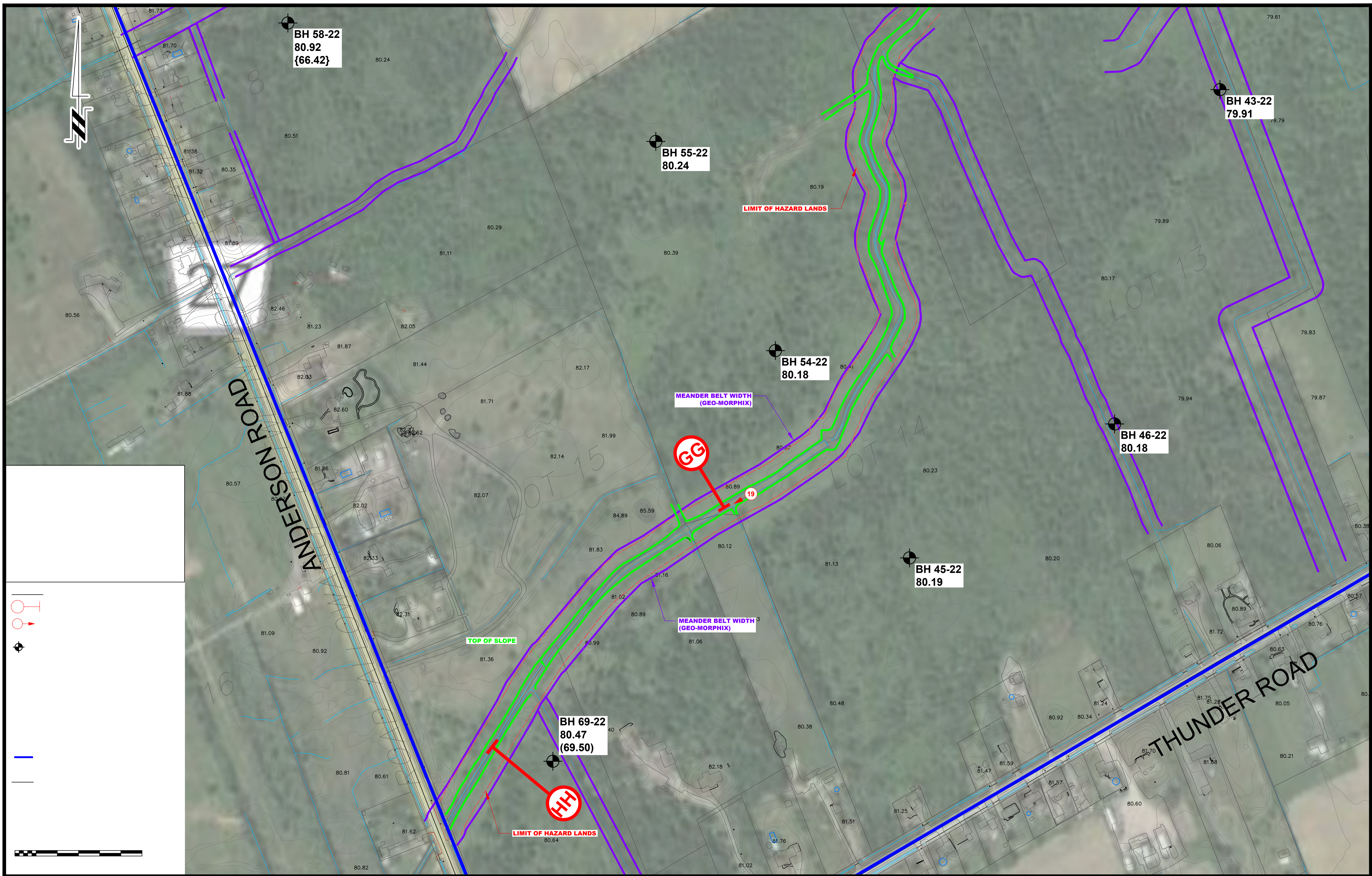
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Checked by:	OM		
Approved by:	DJG		
Date:	09/2022	Revision No.:	1

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NO.	REVISIONS	DATE	INITIAL
1	ADDED MEANDER BELT WIDTH BY GEO-MORPHIX	27/09/2024	DP

TAGGART INVESTMENTS AND ALGONQUINS OF ONTARIO

## TEWIN LANDS

# LIMIT OF HAZARD LANDS PLAN

Stamp:

Scale: 1:2000  
Drawn by: NFRV  
Checked by: OM  
Approved by: DJG  
Date: 09/2022

Report No.: PG5827-1  
Drawing No.: PG5827-9  
Revision No.: 1

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