



Soil Engineers Ltd.

CONSULTING ENGINEERS

GEOTECHNICAL • ENVIRONMENTAL • HYDROGEOLOGICAL • BUILDING SCIENCE

90 WEST BEAVER CREEK ROAD, SUITE 100, RICHMOND HILL, ONTARIO L4B 1E7 · TEL: (416) 754-8515 · FAX: (905) 881-8335

BARRIE
TEL: (705) 721-7863
FAX: (705) 721-7864

MISSISSAUGA
TEL: (905) 542-7605
FAX: (905) 542-2769

OSHAWA
TEL: (905) 440-2040
FAX: (905) 725-1315

NEWMARKET
TEL: (905) 853-0647
FAX: (905) 881-8335

MUSKOKA
TEL: (705) 721-7863
FAX: (705) 721-7864

HAMILTON
TEL: (905) 777-7956
FAX: (905) 542-2769

April 24, 2025

Reference No. 2006-S167

Page 1 of 6

Balbir Babra, Harvinder Babra & Harminder Kala
c/o King Consultants Inc.
31 Sherwood Crescent
Brampton, Ontario
L6X 2C9

Attention: Mr. Gursewak Singh

**Re: A Slope Stability Assessment for
Proposed Residential Development
44-45 Longview Place
City of Mississauga**

Dear Sir:

In accordance with the written authorization dated December 12, 2024 by Mr. Harvinder Babra, Soil Engineers Ltd. has completed a slope stability assessment for the proposed residential development at the captioned site. We herein present our findings and results of the slope stability assessment.

SITE DESCRIPTION

The subject site is situated at end of Longview Place Drive in the City of Mississauga. It is roughly triangular in shape and will be subdivided into multiple residential lots for the proposed development. At the time of investigation, the site is a relatively flat grass-covered open field.

The slope of concern, as shown on Drawing No. 1, is located along the north and east property boundaries. Based on the topographic survey, prepared by Tarasick McMillan Kubicki Limited dated December 11, 2024, the slope is approximately 7.5 to 10.0 m high with slope gradients ranging from 0.65 to 1.66 Horizontal (H):1 Vertical (V). Fletchers Creek can be observed immediately adjacent to the bottom of slope in multiple areas. In addition, flood plain can be observed between the creek and the bottom of slope.



SUBSURFACE FINDINGS

Based on the completed boreholes in the vicinity as part of the geotechnical investigation (Reference No. 2006-S167), the subsoil beneath the topsoil veneer consists of native silty clay till which beds onto shale bedrock at a depth of 2.9 m. No groundwater was encountered and all boreholes remained dry upon completion of field work. The referenced borehole logs are enclosed in Appendix, and the locations of the boreholes are shown on Drawing No. 1.

SLOPE INPECTION

A visual inspection of the slope was carried out on December 18, 2024. In general, the slope height and gradients, and the natural features appeared to be consistent with those presented on the topographic survey.

The slope has a good leaf cover, and is vegetated with shrubs and trees, most of which appeared to be in an upright position. Water seepage and other signs of instability were not evident on the slope at the time of inspection.

Fletchers Creek is observed in close proximity to the bottom of slope. In places, the creek runs immediately adjacent to the bottom of slope, while other areas, a flood plain is observed. Active toe erosion is observed along the bottom of slope near Fletchers Creek.

SLOPE STABILITY ANALYSIS

Three (3) slope sections, Cross-Sections A-A, B-B and C-C, were selected for the slope stability analyses. The locations of the cross sections are presented on Drawing No. 1.

The surface profile of the cross section was interpolated from the elevation contours shown on the above-mentioned topographic survey. The subsurface information was derived from the Geotechnical Investigation Report, Reference No. 2006-S167 dated August 2020. Details of the slope sections are shown on Drawing Nos. 2 to 4.

The slope stability analyses were carried out using “SLIDE,” developed by Rocscience Inc., using limit-equilibrium criteria of the Bishop Method. The following soil shear strength parameters are used for the analysis.



Soil Type	Unit Weight, γ (kN/m ³)	Effective Cohesion, c' (kPa)	Effective Angle of Internal Friction, ϕ'
Silty Clay Till	21.5	5	30°
Shale	23.0	20	40°

While groundwater was not evident within the borehole findings, a water level matching the water level at the creek will be used as phreatic surface for the analysis under 'normal' water condition. In addition, an elevated groundwater level, approximately 1.5 m below the existing grade, is also used to evaluate the slope stability under the elevated groundwater condition.

The resulting minimum factors of safety (FOS) for the existing condition of the slope are summarized in the following table.

Cross-Section	Existing Gradient (H:V)	Existing FOS	FOS under Elevated Groundwater Condition
A-A	0.97 to 1.66:1	2.04	1.53
B-B	0.65:1	1.67	1.31
C-C	1.15:1	1.97	1.48

The resulting FOS of the analyses at Cross-Sections A-A, B-B and C-C at existing conditions meet the Ontario Ministry of Natural Resources (OMNR) and the Credit Valley Conservation (CVC) guideline requirements (minimum FOS of 1.5). In addition, the resulting FOS for all cross-sections also meet the required FOS under elevated groundwater condition (minimum FOS of 1.3). The results are presented in Drawing Nos. 2 to 7.

However, given that the portions of the slopes are immediately adjacent to the water edge with signs of active toe erosions, a Toe Erosion Allowance (T.E.A.) for the creek must be incorporated to evaluate the Long-Term Stable Top of Slope (LTSTOS).

Based on the OMNR guideline requirement, a T.E.A. of 5.0 m will be required from the edge of water for the disclosed soil/rock types. After applying the T.E.A., the cross-sections were subsequently re-analysed using remodelled stable slope gradient of 1.4H:1V for both the shale bedrock and the silty clay till. The resulting FOS of Cross-Sections A-A, B-B and C-C meet the OMNR guideline requirement (min FOS of 1.5 and 1.3) under normal water condition and elevated groundwater condition, respectively. The analytical results for the geotechnically stable condition are presented on Drawing Nos. 8 to 13 and are summarized in the following table. The resulting LTSTOS is also illustrated on Drawing No. 1.



Cross-Sections	FOS (normal water condition)	FOS (elevated water condition)
A-A	2.15	1.63
B-B	2.28	1.73
C-C	2.13	1.58

Furthermore, a development setback for man-made and environmental degradation will be required from the LTSTOS; this is subject to the requirements of CVC.

GENERAL CONSIDERATIONS

In order to prevent disturbance of the existing slope and to enhance the stability of the slope for the proposed project, the following geotechnical constraints should be stipulated:

1. The prevailing vegetative cover must be maintained, since its extraction would deprive the slope of the rooting system that is reinforcement against soil erosion by weathering. If for any reason the vegetation cover is stripped during construction, it must be reinstated to its original, or better than its original, protective condition.
2. The topsoil cover on the slope face should not be disturbed, since this provides insulation and screen against frost wedging and rainwash erosion.
3. Grading of the land adjacent to the slope must be such that concentrated runoff is not allowed to drain onto the slope face. Landscaping features which may cause runoff to pond at the top of the slope, as well as saturation of the crown of the slope, must not be permitted.
4. Where the construction is carried out near the top of the slope, dumping of loose fill over the slope from topsoil stripping or vegetation removal activities must be prohibited. Topsoil stripping and vegetation removal along the slope are also prohibited.

The above recommendations should be reviewed and are subject to the approval and requirements of CVC.




Balbir Babra, Harvinder Babra & Harminder Kala
April 24, 2025

Reference No. 2006-S167
Page 5 of 5

We trust this letter satisfies your present requirements; however, should any queries arise, please feel free to contact this office.

Yours truly,
SOIL ENGINEERS LTD.


Poh Fung Kwok, M.Sc.


Kin Fung Li, P.Eng.
PK/KFL



ENCLOSURES

Cross-Section Location Plan	Drawing No. 1
Cross-Sections (Existing Condition – Normal Water Condition)	Drawing Nos. 2 to 4
Cross-Sections (Existing Condition – Elevated Water Condition)	Drawing Nos. 5 to 7
Cross-Sections (Stable Condition – Normal Water Condition)	Drawing Nos. 8 to 10
Cross-Sections (Stable Condition – Elevated Water Condition)	Drawing Nos. 11 to 13
Logs of Borehole	Appendix

This letter/report/certification was prepared by Soil Engineers Ltd. for the account of the captioned clients and may be relied upon by regulatory agencies. The material in it reflects the writer's best judgment in light of the information available to it at the time of preparation. Any use which a third party makes of this letter/report/certification, or any reliance on or decisions to be made based upon it, are the responsibility of such third parties. Soil Engineers Ltd. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this letter/report/certification

**BLOCKS 44 AND 45
REGISTERED PLAN 43M-2113
CITY OF MISSISSAUGA
REGIONAL MUNICIPALITY OF PEEL**

SCALE 1 : 250

TARASICK McMILLAN KUBICKI LIMITED

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REPORT SUMMARY

PROPERTY DESCRIPTION: PART OF LOT 10, CONCESSION 1, WEST OF
HURONTARIO STREET (ORIGINALLY IN TOWNSHIP OF TORONTO) DESIGNATED AS
R10, ZONED R10, CITY OF MISSISSAUGA, REGIONAL MUNICIPALITY
OF PEELE, PIN 13214-0913.

BLOCK 44, REGISTERED PLAN 1324-5113, CITY OF MISSISSAUGA, REGIONAL
MUNICIPALITY OF PEELE, PIN 13214-0914.

BLOCK 45, REGISTERED PLAN 1324-5113, CITY OF MISSISSAUGA, REGIONAL
MUNICIPALITY OF PEELE, PIN 13214-0915.

EASEMENTS/RIGHTS-OF-WAY: NONE REGISTERED ON RESPECTIVE TITLES.
COMMENTS: NOTE LOCATION OF FENCES.



ELEVATION NOTE
ELEVATIONS ARE REFERRED TO CANADIAN GEODETIC VERTICAL DATUM—1928, AND WERE DERIVED FROM CITY OF MISSISSAUGA BENCHMARK No. 1050, HAVING A PUBLISHED ELEVATION OF 194.056 metres.

BEARING NOTE

BEARINGS ARE GRID, UTM (ZONE 17) PROJECTION, NAD83 (ORIGINAL) DATUM, AND ARE REFERRED TO THE EASTERLY LIMIT OF PLAN 4.3M-2113, HAVING A BEARING OF $N45^{\circ}20'10''W$.

FOR COMPRESSION PURPOSES, A ROTATION OF $0^{\circ}40'30''$ CLOCKWISE WAS APPLIED TO BEARINGS ON PLAN 4.3R-27818, TO CONVERT TO BEARINGS AS NOTED ABOVE.

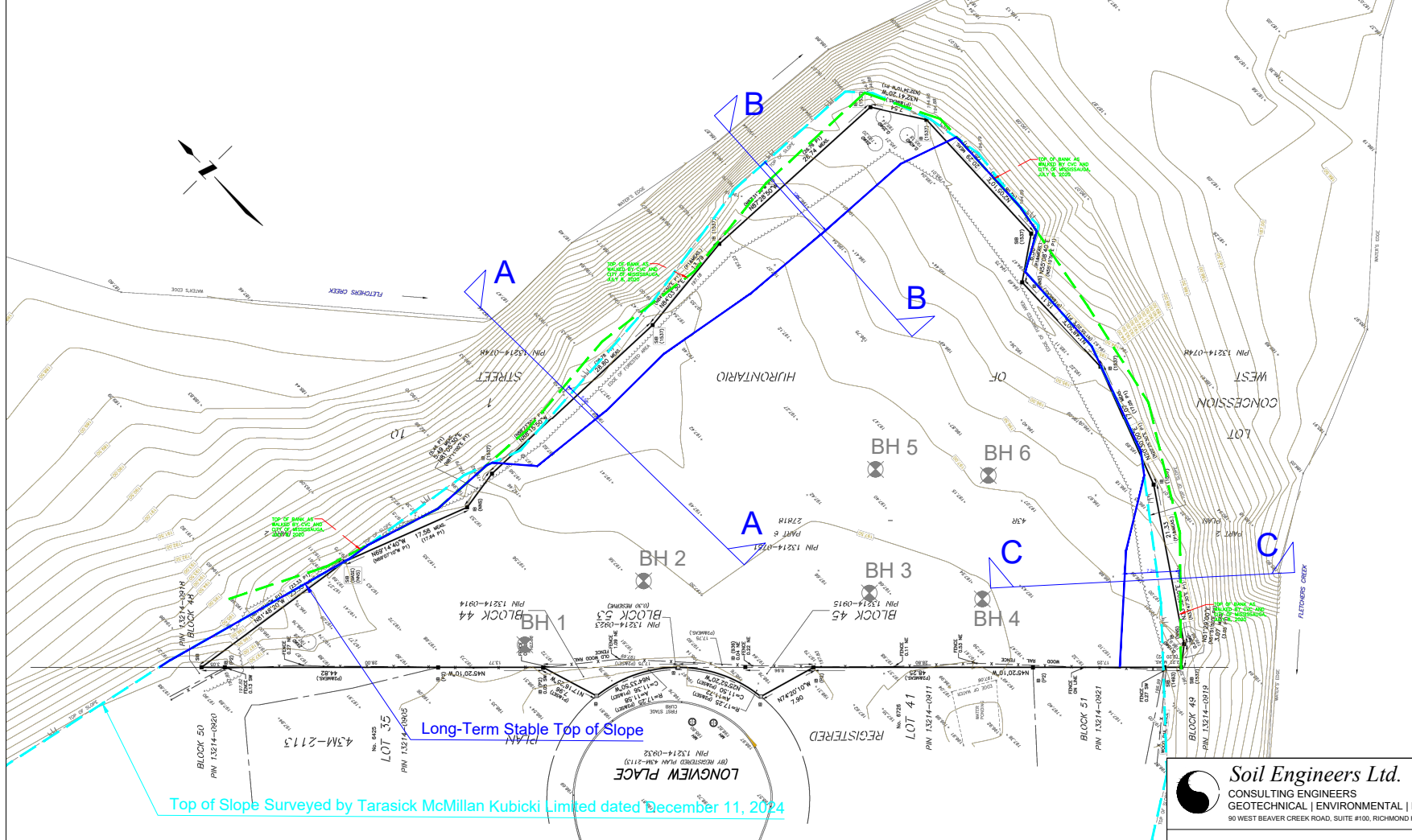
LEGEND

	DENOTES DENOTES	SURVEY MONUMENT SURVEY MONUMENT
	DENOTES DENOTES	PLANTED FOUND

SUB	STANDARD IRON BAR	0.204	DECIDUOUS TREE WITH TRUNK DIAMETER
MB	MANHOLE		
MD	DNOTES		
ME	DNOTES		
PF	DNOTES		
P2	REGISTERED PLAN KSM-2113		
P3	REGISTERED PLAN KSC-27818		
(148)	DNOTES		
(149)	DNOTES		
(150)	YOUNG & YOUNG LTD. O.L.S.		
(151)	TOO CZERNIAKOW, O.L.S.		
(152)	MANHOLE & NO SURVEYORS INC. O.L.S.		
(153)	DNOTES		
(154)	DNOTES		

THREE CAMPIRES ARE DRAWN TO SCALE.

① TREE CANOPIES ARE DRAWN TO SCALE.



SURVEYOR'S CERTIFICATE

I CERTIFY THAT :

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON OCTOBER 3, 2023, AND TOPOGRAPHY WAS EXAMINED ON DECEMBER 4, 2024.

INTRODUCTION

С. Митрев
SIMEON MITREV

ON TARIO LAND SURVEYOR

TARASICK McMILLAN KUBICKI LIMITED

ONTARIO LAND SURVEYORS

4181 SLADEVIEW CRESCENT, UNIT 42, MISSISSAUGA, ONTARIO L5L 5R2
TEL: (905) 569-8849 FAX: (905) 569-3110

PREPARED FOR:
THIS REPORT WAS PREPARED FOR MAHARAJA GROUP OF COMPANIES AND THE
UNDERSIGNED ACCEPTS NO RESPONSIBILITY FOR USE BY OTHER PARTIES.

THIS PLAN ARE
CONVERTED



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Cross Section Location Plan

SITE: 44-45 Longview Place, City of Mississauga

DESIGNED BY: P.K.

CHECKED BY: K.L.

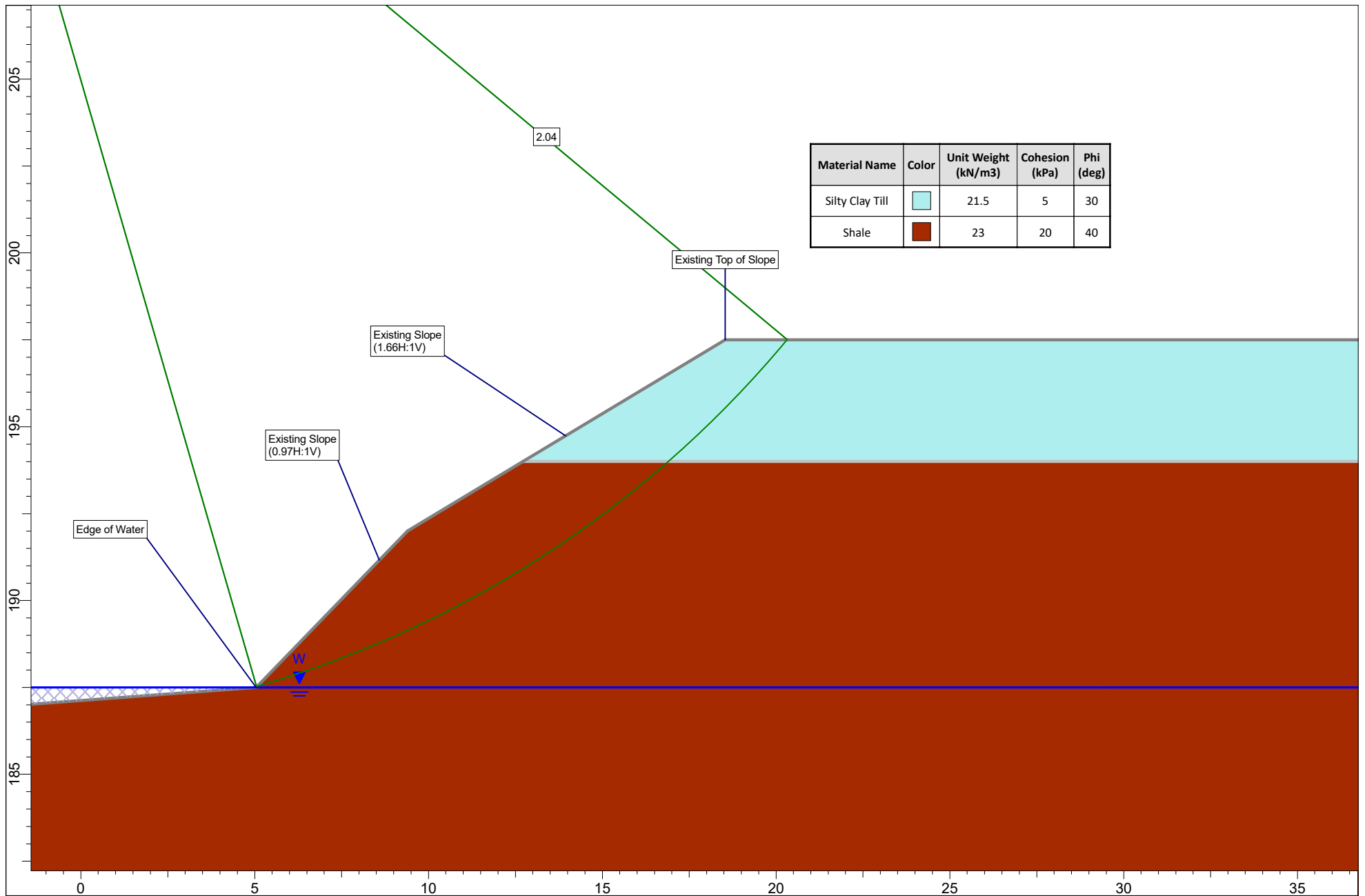
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REF. NO.:	2006-S167
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DATE: June 2025

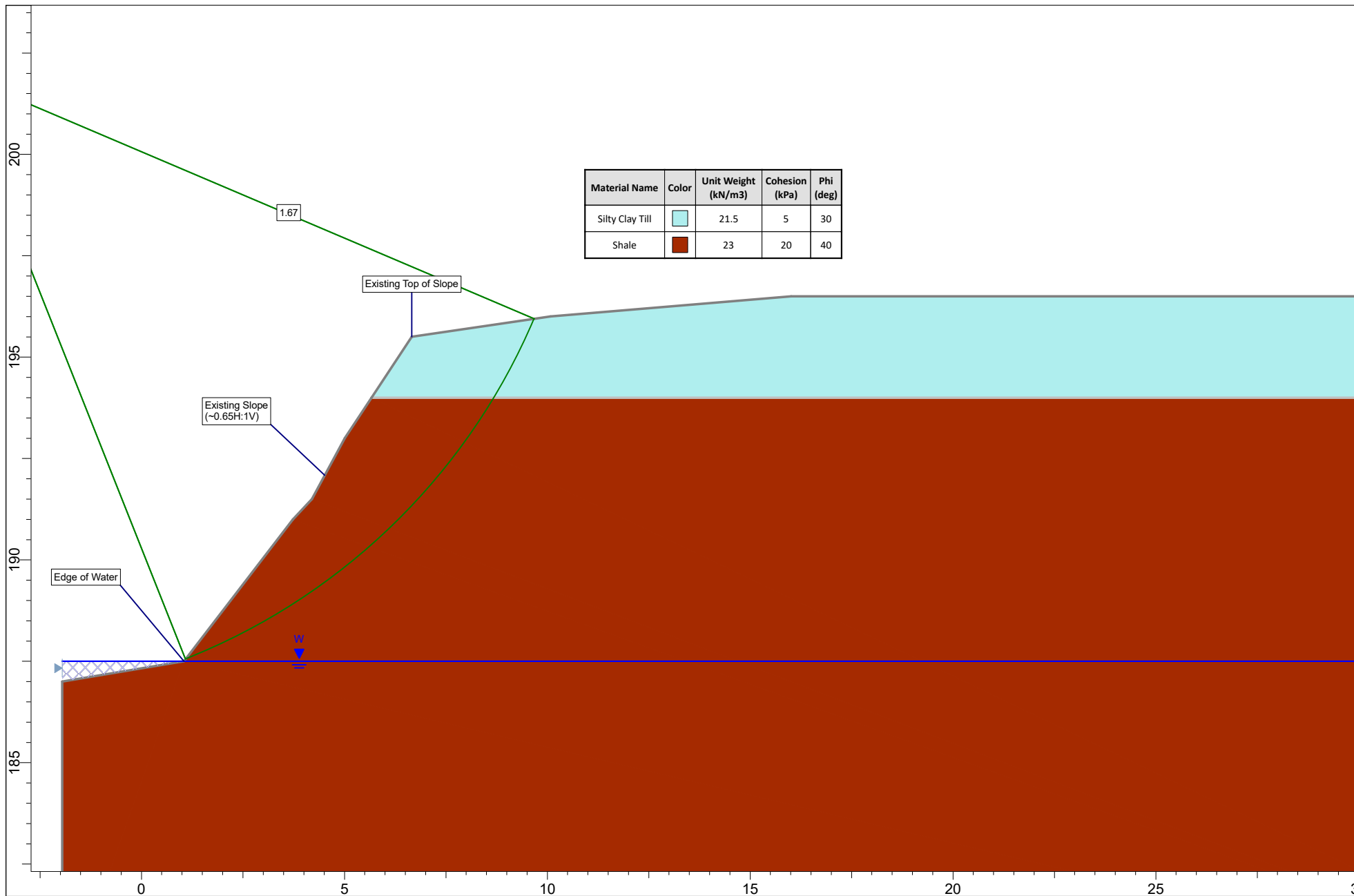
REV



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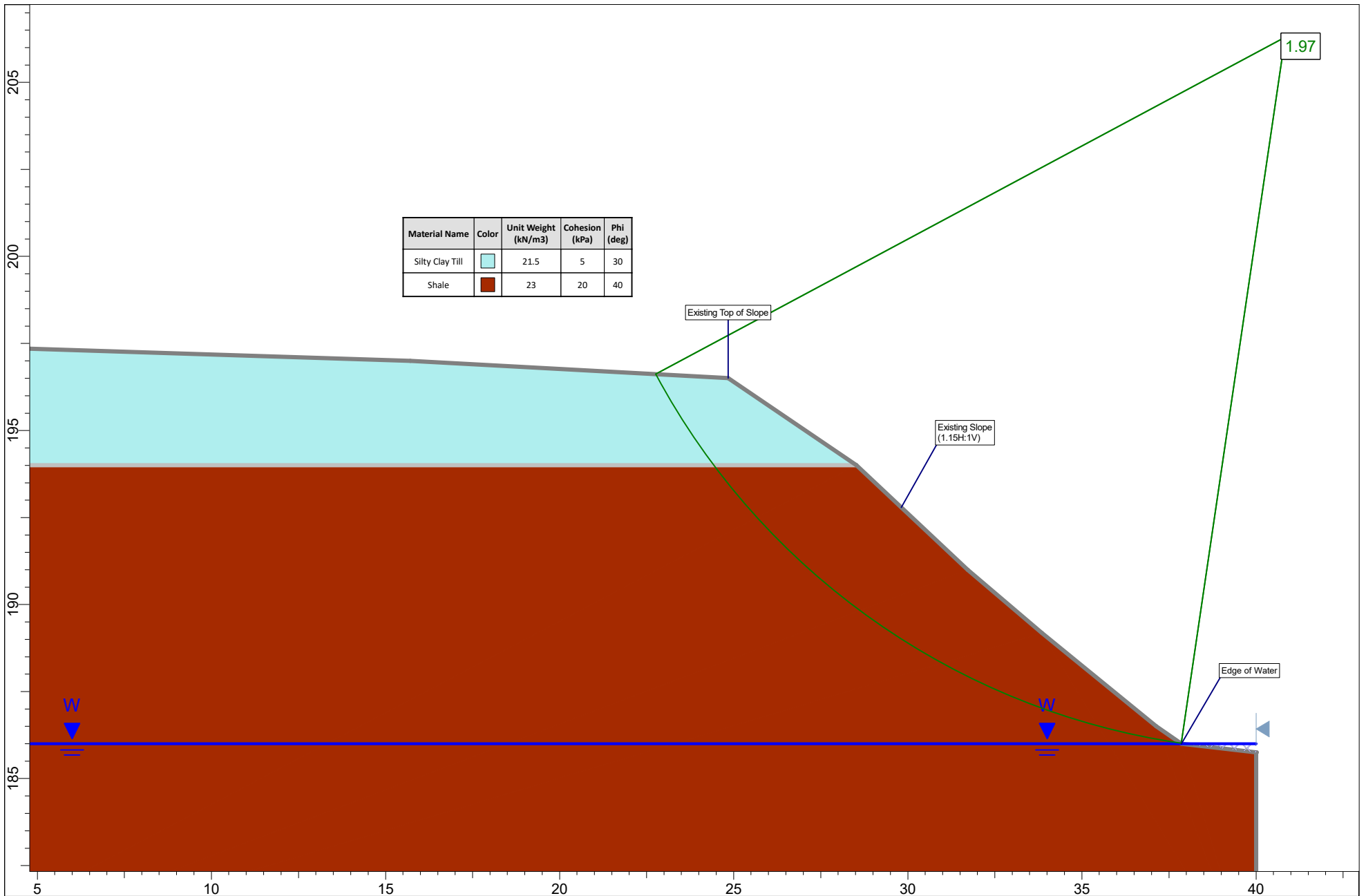
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Slope Stability Assessment - Cross Section A-A				Existing Condition	
Location					
44-45 Longview Place, City of Mississauga					
Drawn By	P.K.	Checked By	K.L.	Scale	Revision
				1:150	-
Date	April 2025		Reference No.	2006-S167	Drawing No.
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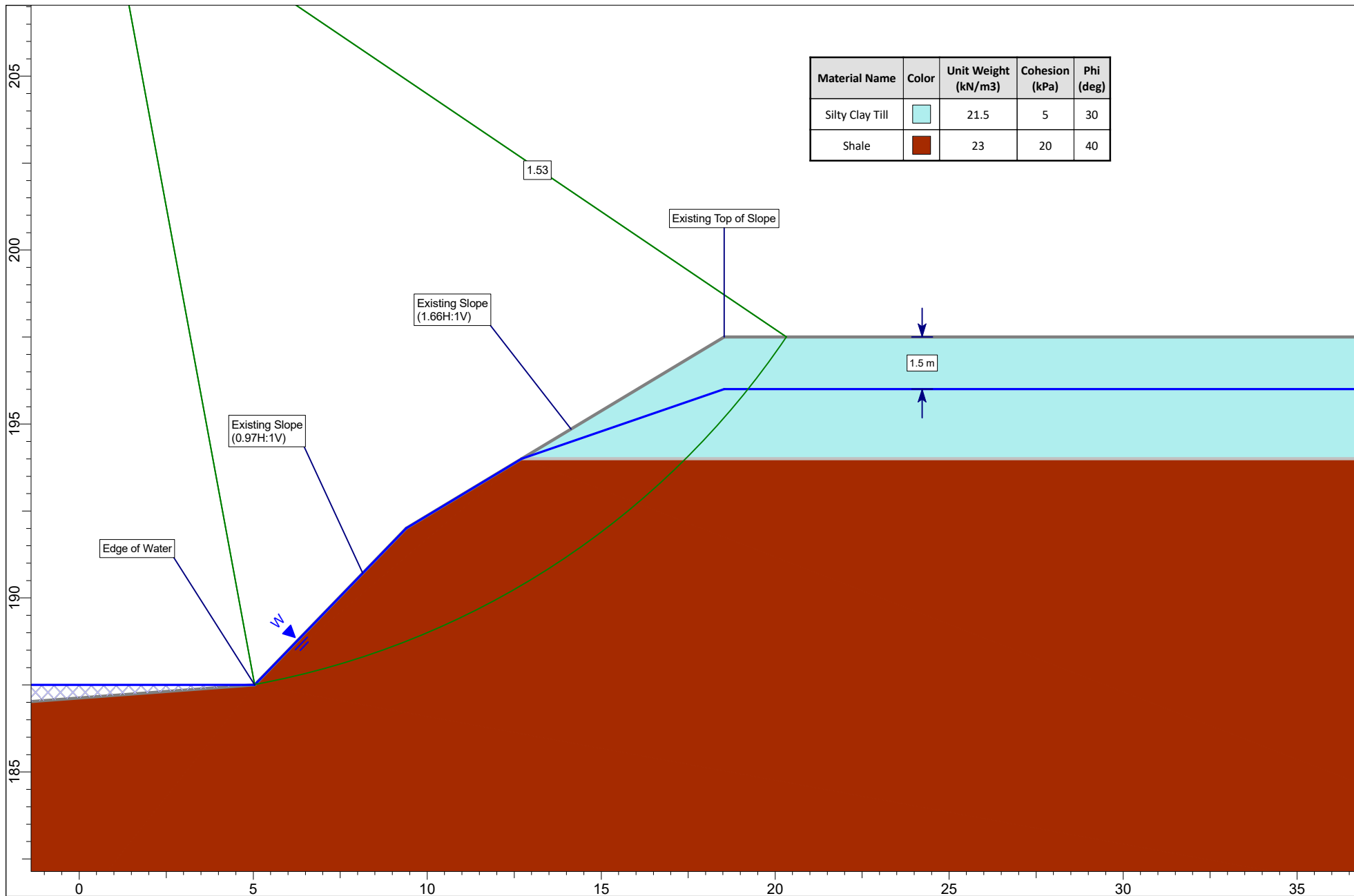
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Project Title				Slope Stability Assessment - Cross Section B-B		Load Case	
Existing Condition							
Location				44-45 Longview Place, City of Mississauga			
Drawn By		P.K.		Checked By		K.L.	
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Date				January 2025		Reference No.	
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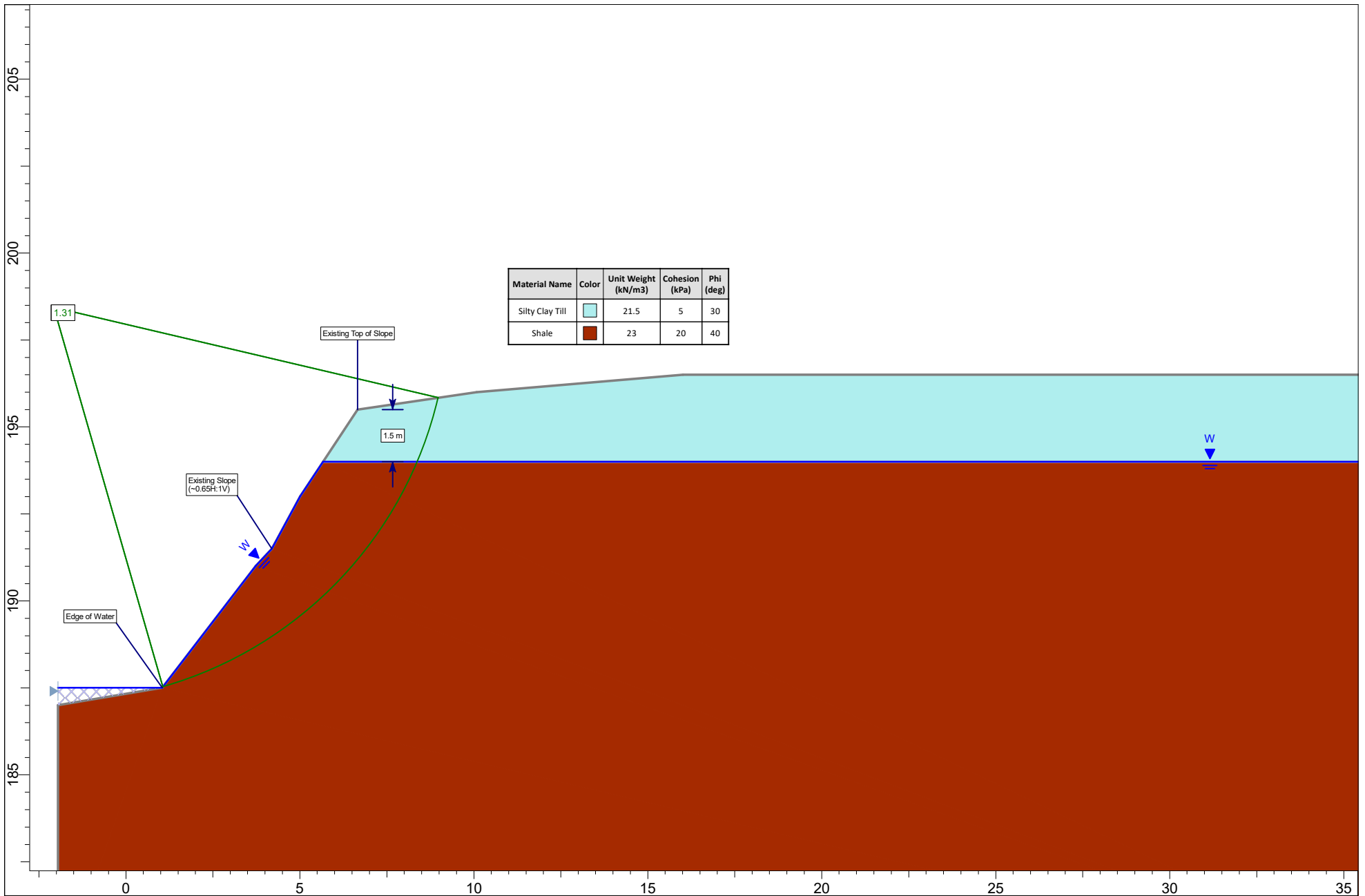
<div></div> <div>Soil Engineers Ltd. CONSULTING ENGINEERS GEOTECHNICAL ENVIRONMENTAL HYDROGEOLOGICAL BUILDING SCIENCE 90 WEST BEAVER CREEK ROAD, SUITE #100, RICHMOND HILL, ONTARIO L4B 1E7 · TEL: (416) 754-8515 · FAX: (905) 881-8335</div>	Project Title			Slope Stability Assessment - Cross Section C-C		Load Case		Existing Condition	
	Location			44-45 Longview Place, City of Mississauga					
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	Date	April 2025			Reference No.	2006-S167		Drawing No.	4




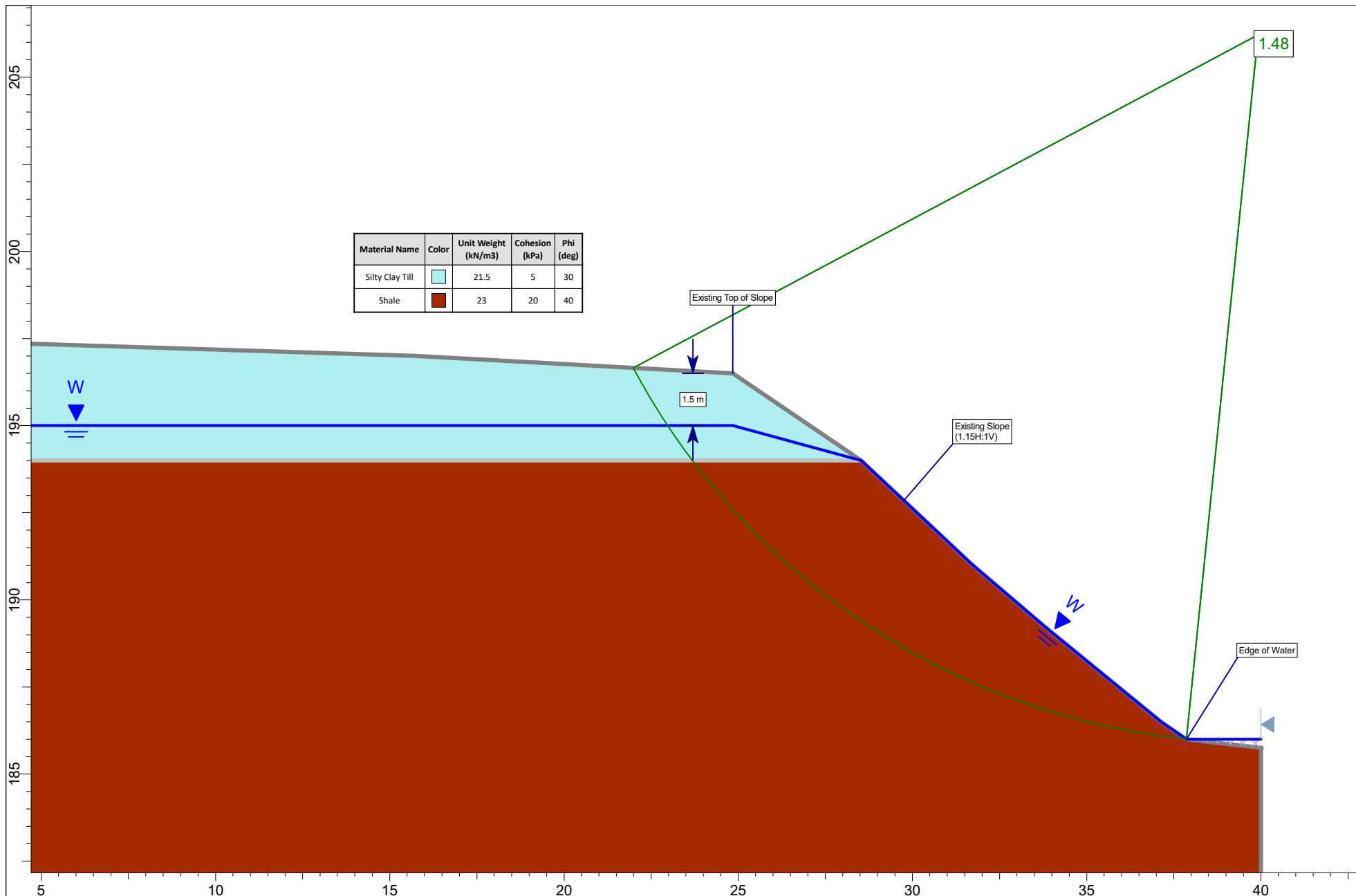
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Project Title			Slope Stability Assessment - Cross Section A-A			Load Case					
						Existing Condition - Elevated Water Level					
Location			44-45 Longview Place, City of Mississauga								
Drawn By		P.K.	Checked By		K.L.	Scale		1:150	Revision		-
Date		April 2025			Reference No.		2006-S167		Drawing No.		5



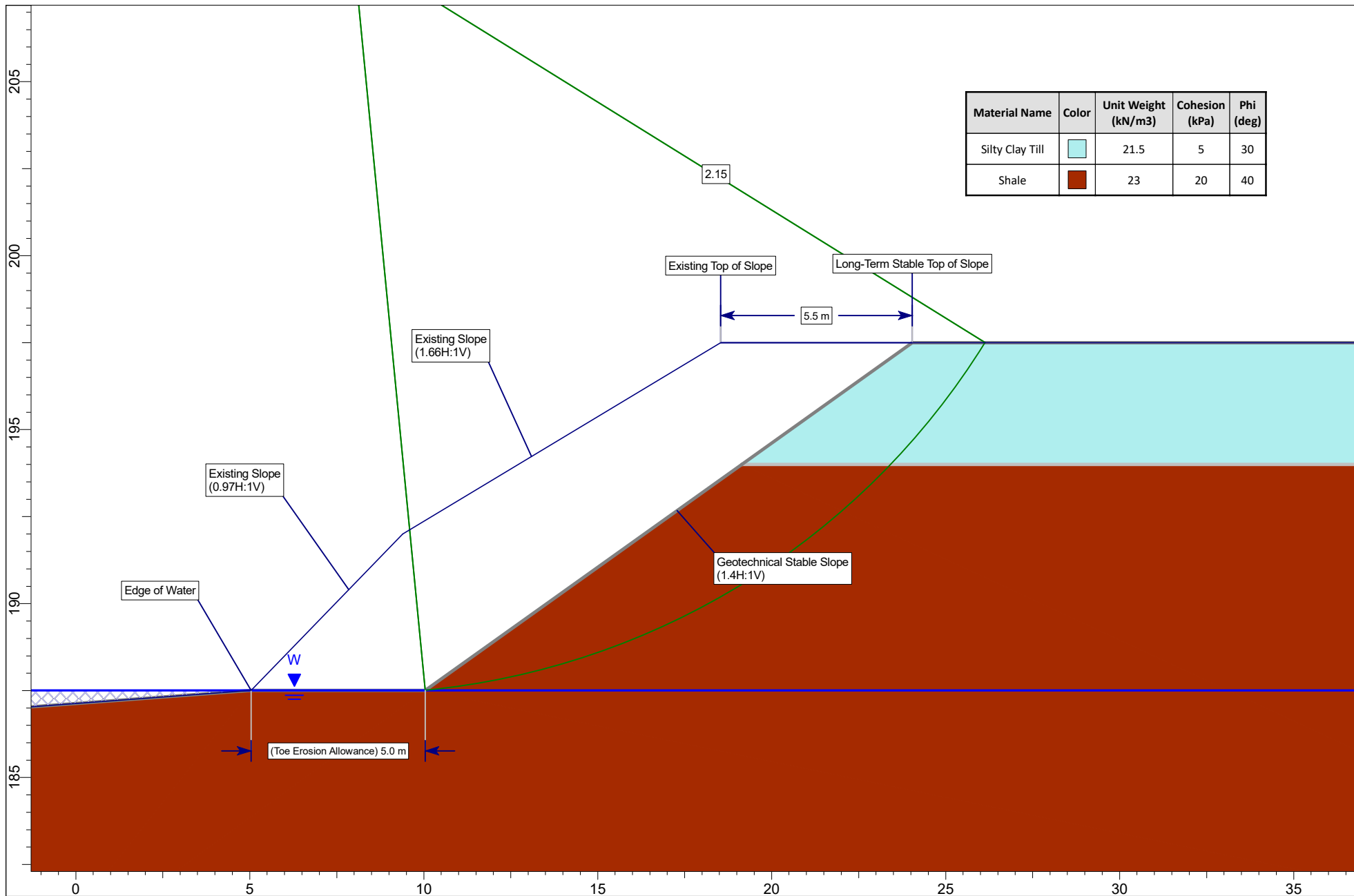
 <div>Soil Engineers Ltd.</div> <div>CONSULTING ENGINEERS</div> <div>GEOTECHNICAL ENVIRONMENTAL HYDROGEOLOGICAL BUILDING SCIENCE</div> <div>90 WEST BEAVER CREEK ROAD, SUITE #100, RICHMOND HILL, ONTARIO L4B 1E7 · TEL: (416) 754-8515 · FAX: (905) 881-8335</div>	Project Title			Load Case	
	Slope Stability Assessment - Cross Section B-B			Existing Condition - Elevated Water Level	
	Location				
	44-45 Longview Place, City of Mississauga				
	Drawn By	P.K.	Checked By	K.L.	Scale
Date	April 2025			Reference No.	2006-S167
				Revision	-
				Drawing No.	6



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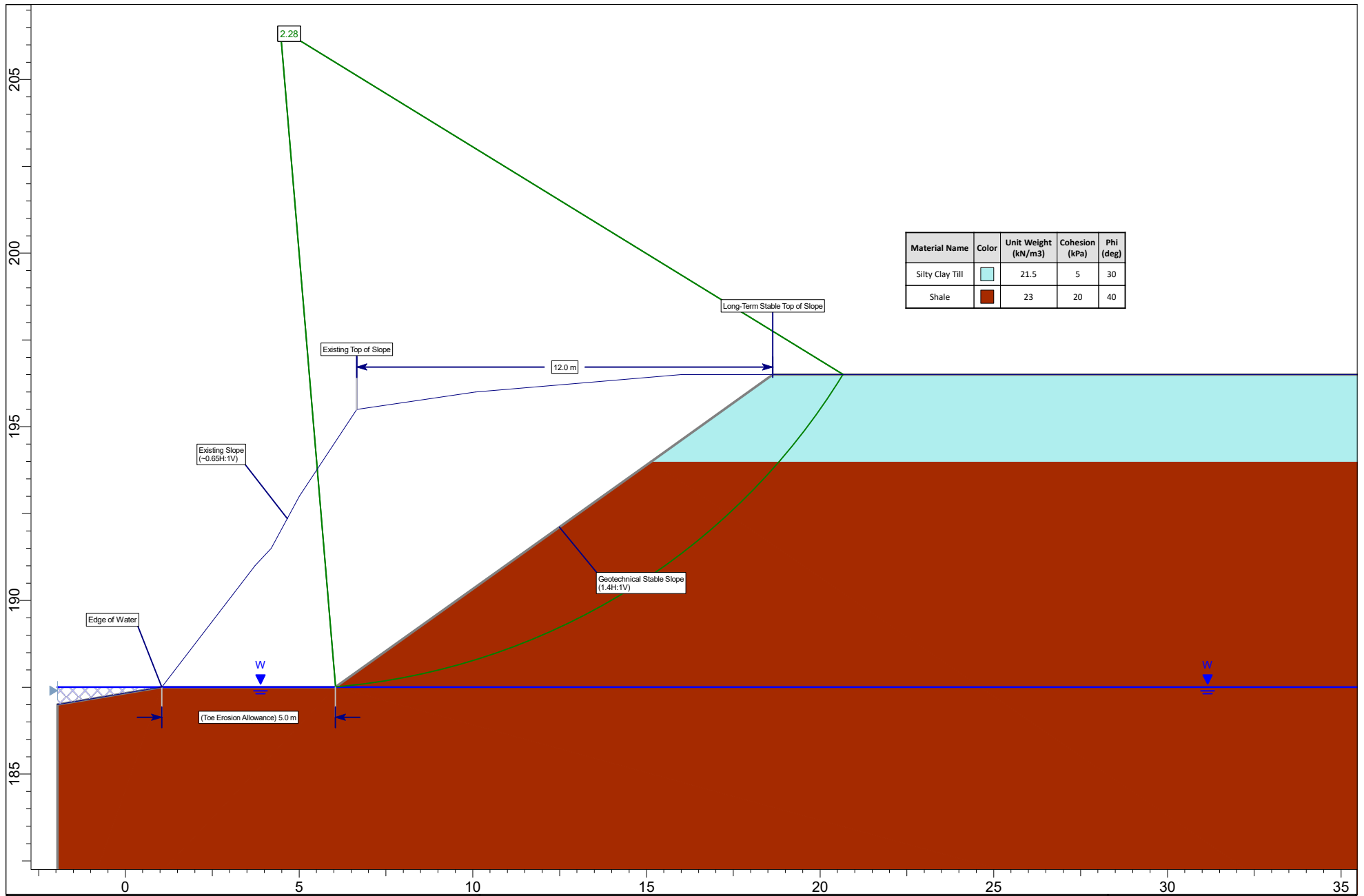
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Location				44-45 Longview Place, City of Mississauga											
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Date		April 2025				Reference No.		2006-S167				Drawing No.		7	



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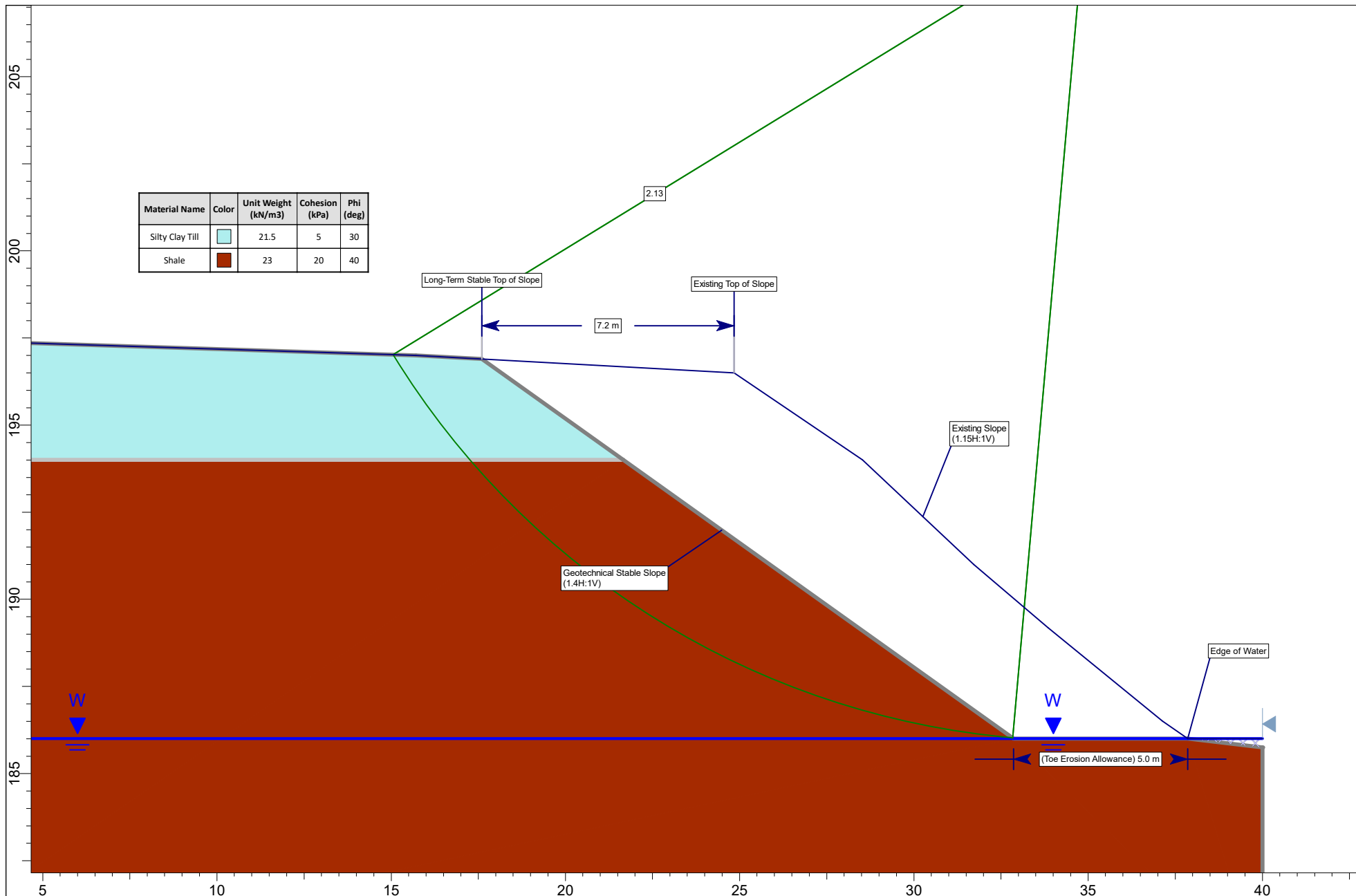
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			Revision		-
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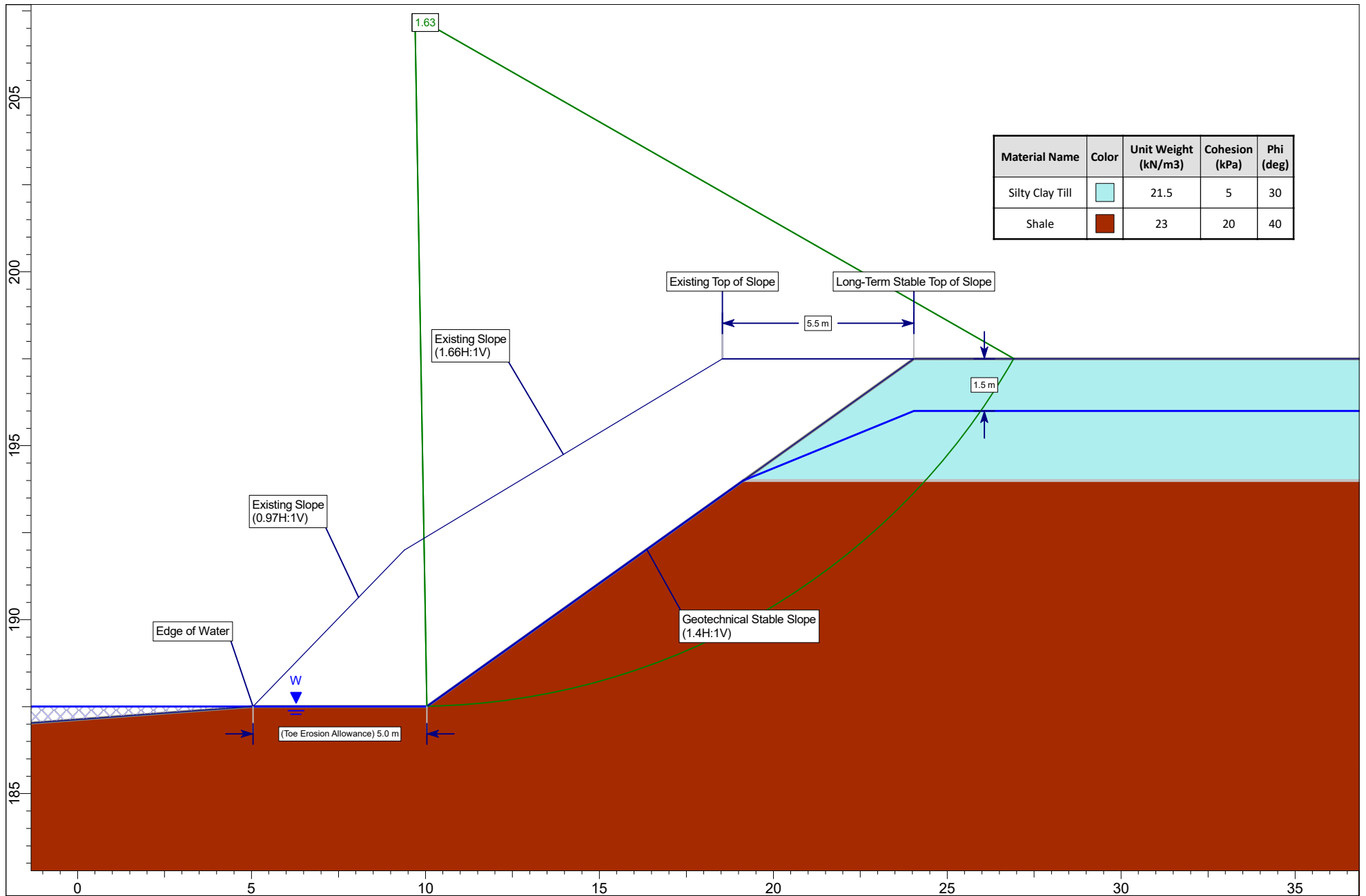
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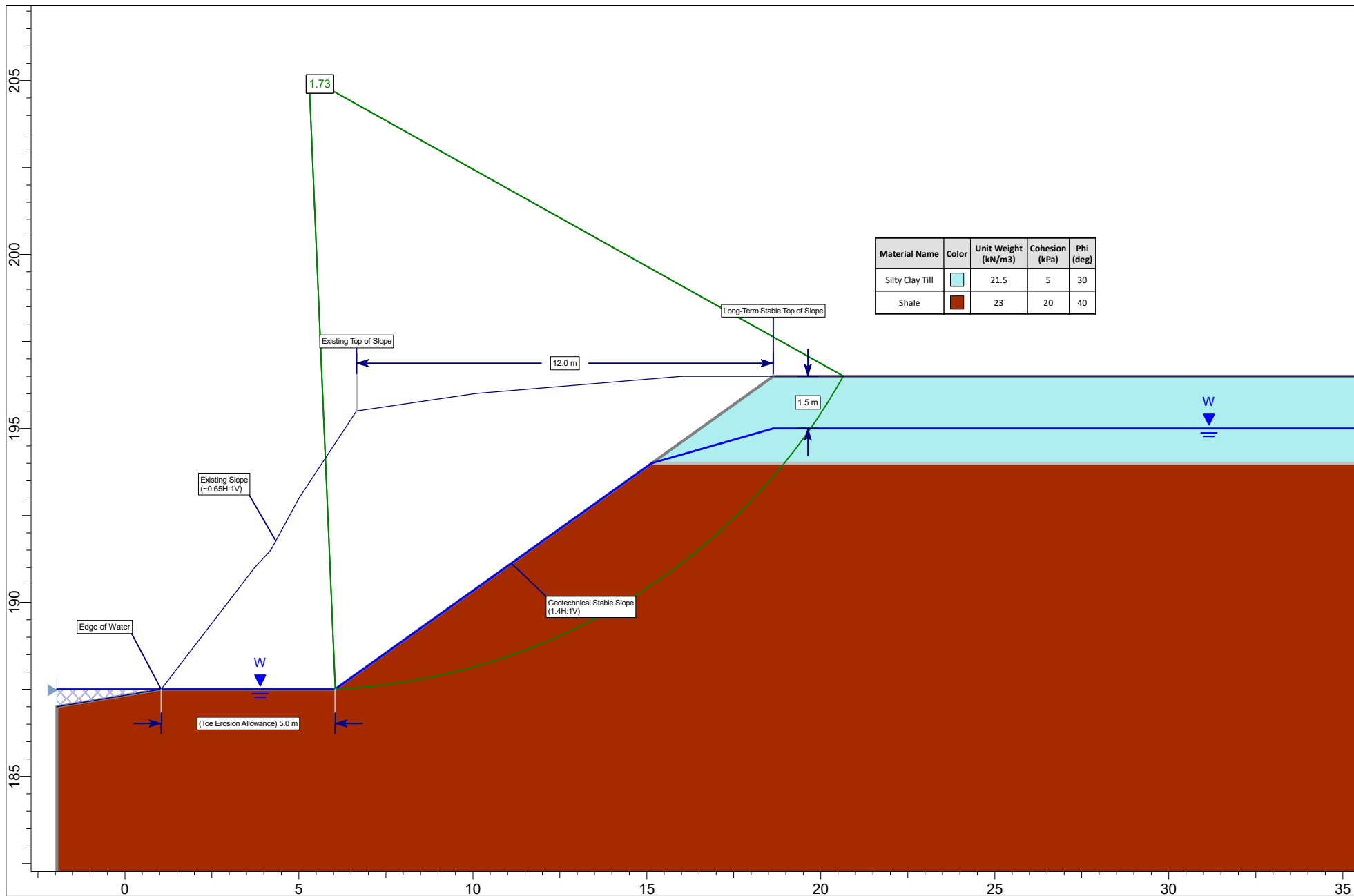
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Location					
44-45 Longview Place, City of Mississauga					
Drawn By	P.K.	Checked By	K.L.	Scale	Revision
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Date	April 2025		Reference No.	2006-S167	Drawing No.
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	Slope Stable Assessment - Cross Section C-C		Stable Condition
	Location		
	44-45 Longview Place, City of Mississauga		
	Drawn By	Checked By	Scale
	P.K.	K.L.	1:150
	Date	Reference No.	
	April 2025	2006-S167	
			Revision
			-
			Drawing No.
			10



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	Location		44-45 Longview Place, City of Mississauga		Stable Condition - Elevated Water Level
	Drawn By	P.K.	Checked By	K.L.	Scale
	Date	April 2025	Reference No.	2006-S167	Revision
					Drawing No.



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Project Title

Slope Stability Assessment - Cross Section B-B

Load Case

Stable Condition - Elevated Water Level

Location

44-45 Longview Place, City of Mississauga

Drawn By P.K.

Checked By K.L.

Scale

1:150

Revision

-

Date

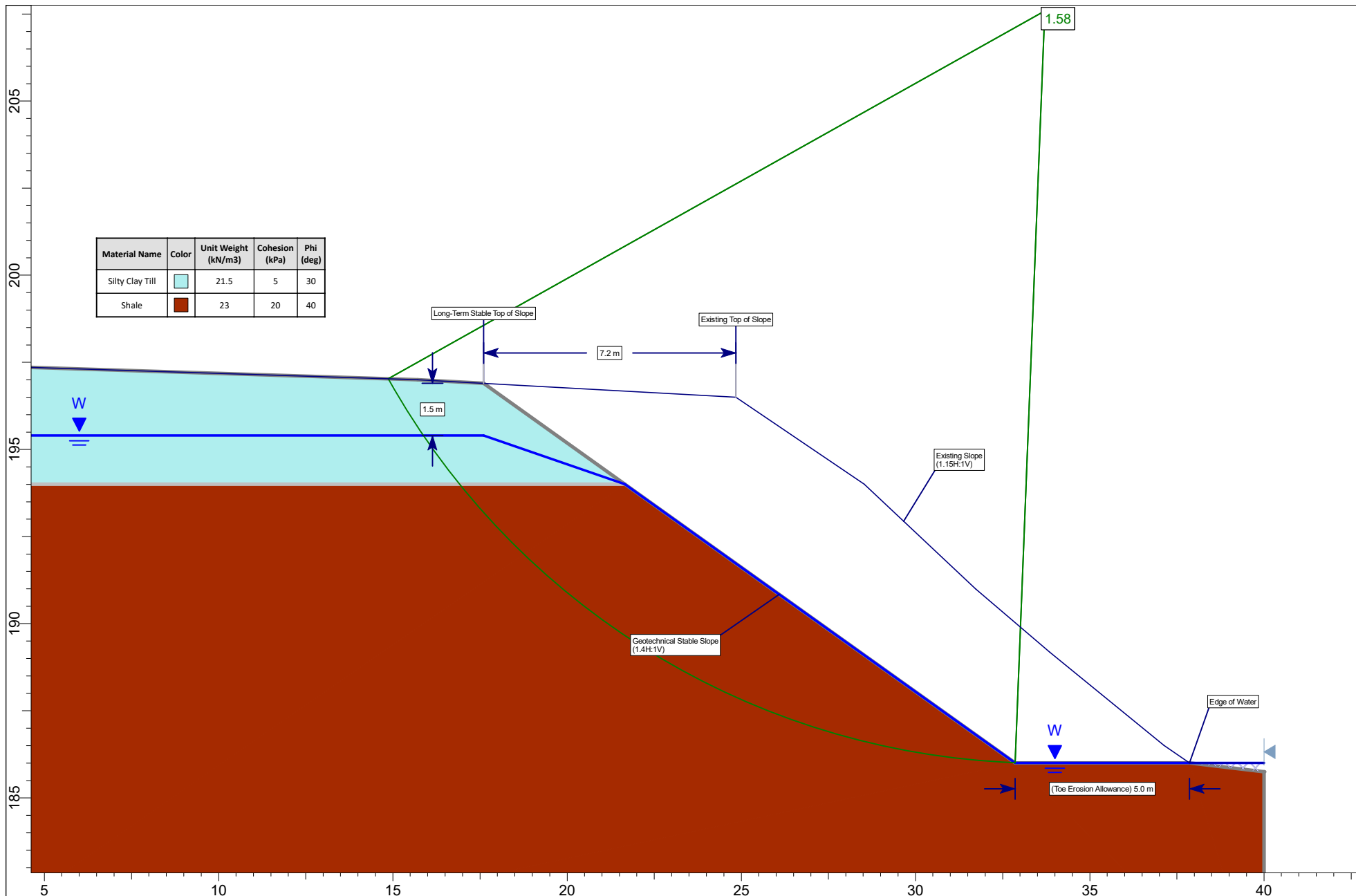
April 2025

Reference No.

2006-S167

Drawing No.

12



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Project Title				Load Case	
Slope Stable Assessment - Cross Section C-C				Stable Condition - Elevated Water Level	
Location					
44-45 Longview Place, City of Mississauga					
Drawn By	P.K.	Checked By	K.L.	Scale	Revision
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Date	April 2025		Reference No.	2006-S167	Drawing No.
					13



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APPENDIX

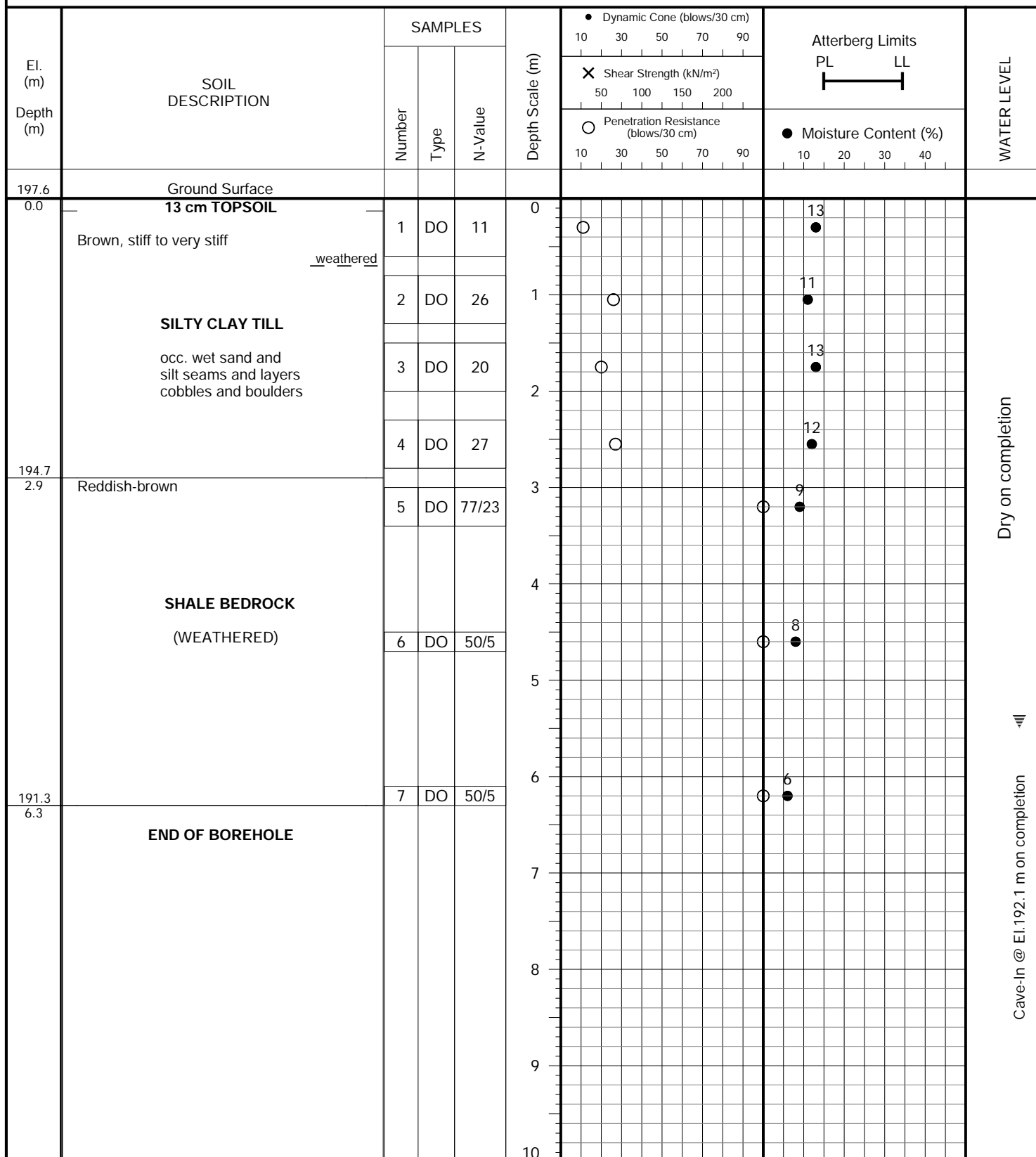
LOGS OF BOREHOLE

REFERENCE NO. 2006-S167

JOB NO.: 2006-S167

LOG OF BOREHOLE NO.: 1

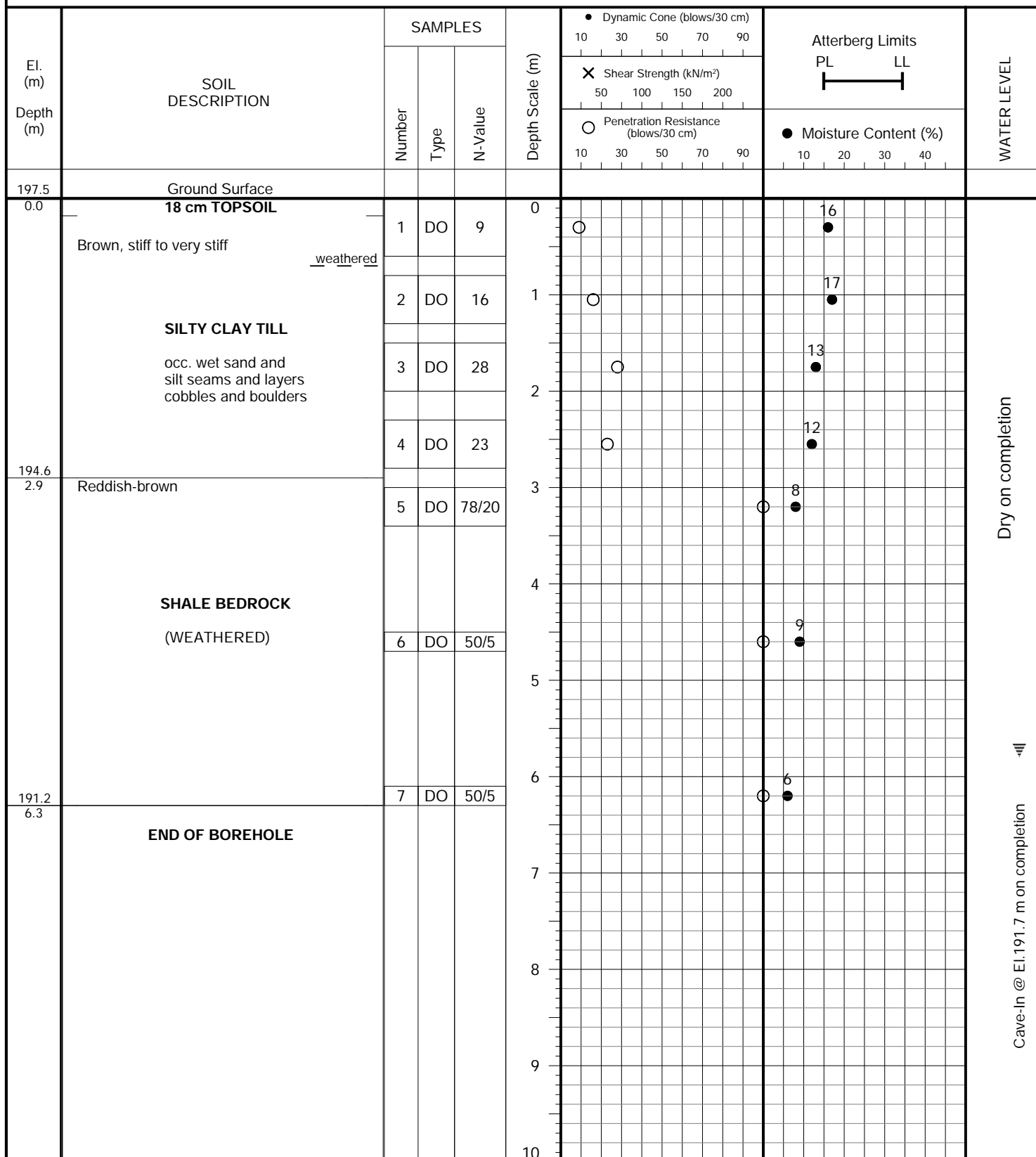
FIGURE NO.: 1

PROJECT DESCRIPTION: Proposed Residential Development**METHOD OF BORING:** Flight-Auger**PROJECT LOCATION:** 44-45 Longview Place
City of Mississauga**DRILLING DATE:** July 8, 2020**Soil Engineers Ltd.**

JOB NO.: 2006-S167

LOG OF BOREHOLE NO.: 2

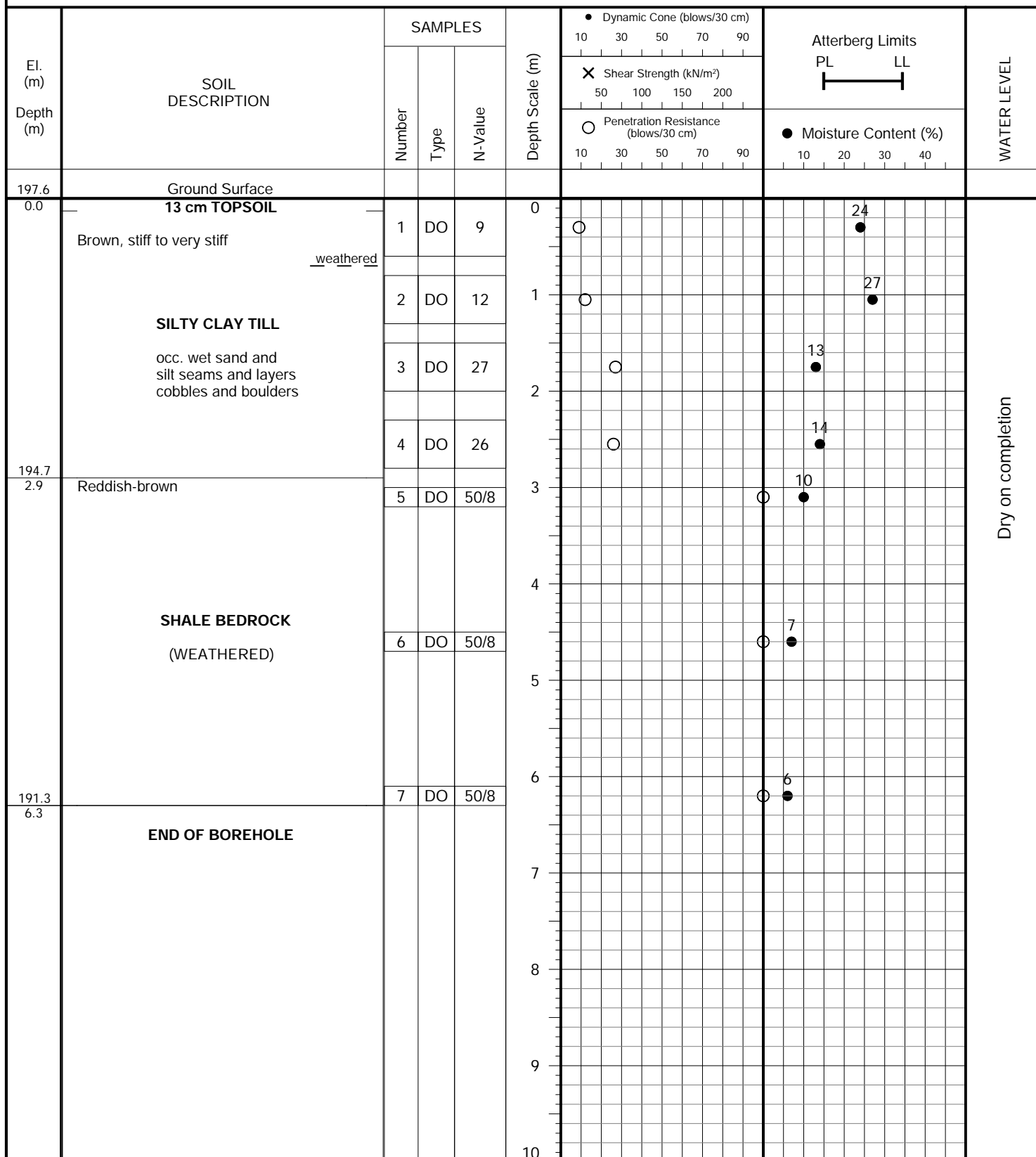
FIGURE NO.: 2

PROJECT DESCRIPTION: Proposed Residential Development**METHOD OF BORING:** Flight-Auger**PROJECT LOCATION:** 44-45 Longview Place
City of Mississauga**DRILLING DATE:** July 8, 2020**Soil Engineers Ltd.**

JOB NO.: 2006-S167

LOG OF BOREHOLE NO.: 3

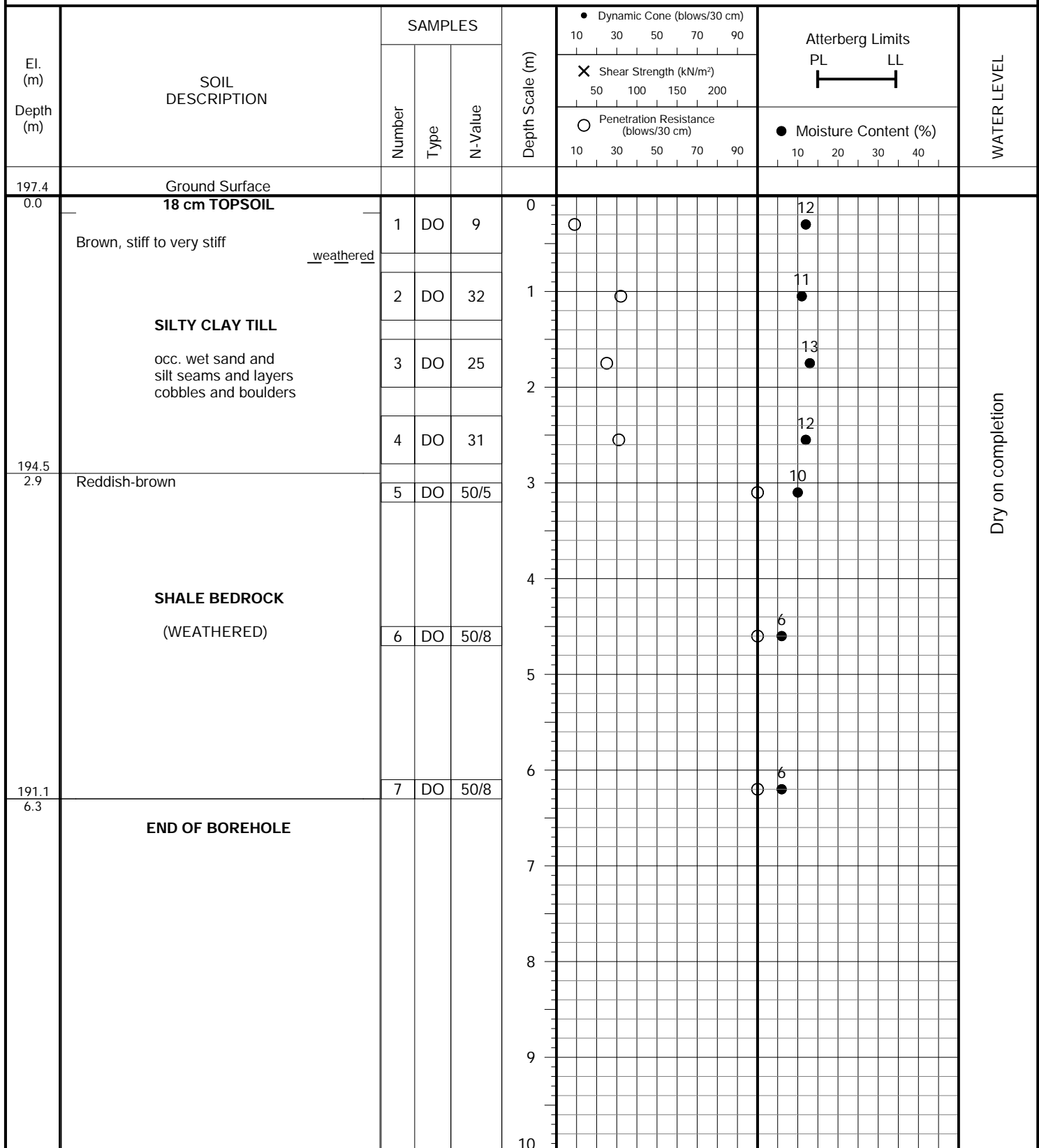
FIGURE NO.: 3

PROJECT DESCRIPTION: Proposed Residential Development**METHOD OF BORING:** Flight-Auger**PROJECT LOCATION:** 44-45 Longview Place
City of Mississauga**DRILLING DATE:** July 13, 2020**Soil Engineers Ltd.**

JOB NO.: 2006-S167

LOG OF BOREHOLE NO.: 4

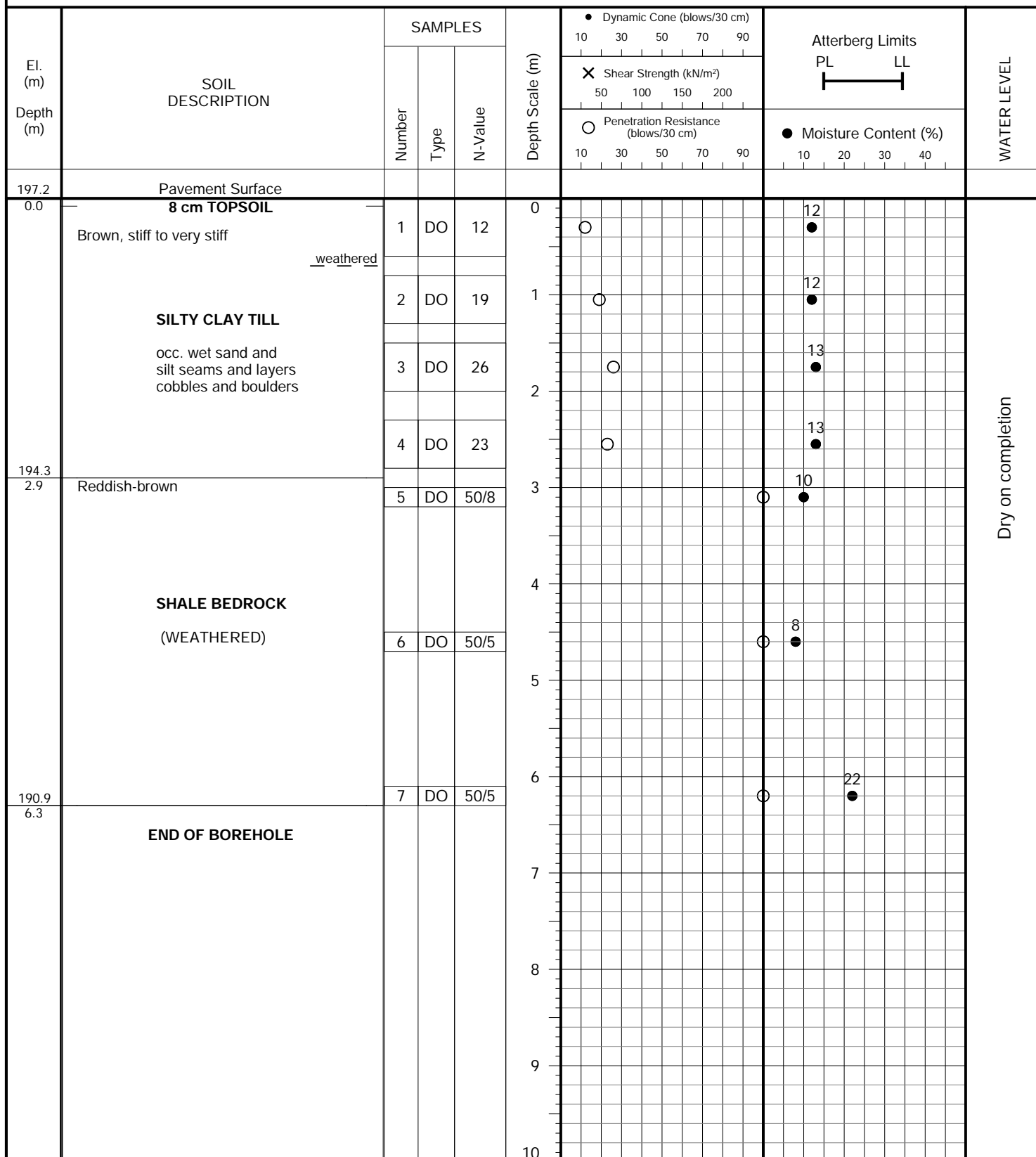
FIGURE NO.: 4

PROJECT DESCRIPTION: Proposed Residential Development**METHOD OF BORING:** Flight-Auger**PROJECT LOCATION:** 44-45 Longview Place
City of Mississauga**DRILLING DATE:** July 8, 2020**Soil Engineers Ltd.**

JOB NO.: 2006-S167

LOG OF BOREHOLE NO.: 5

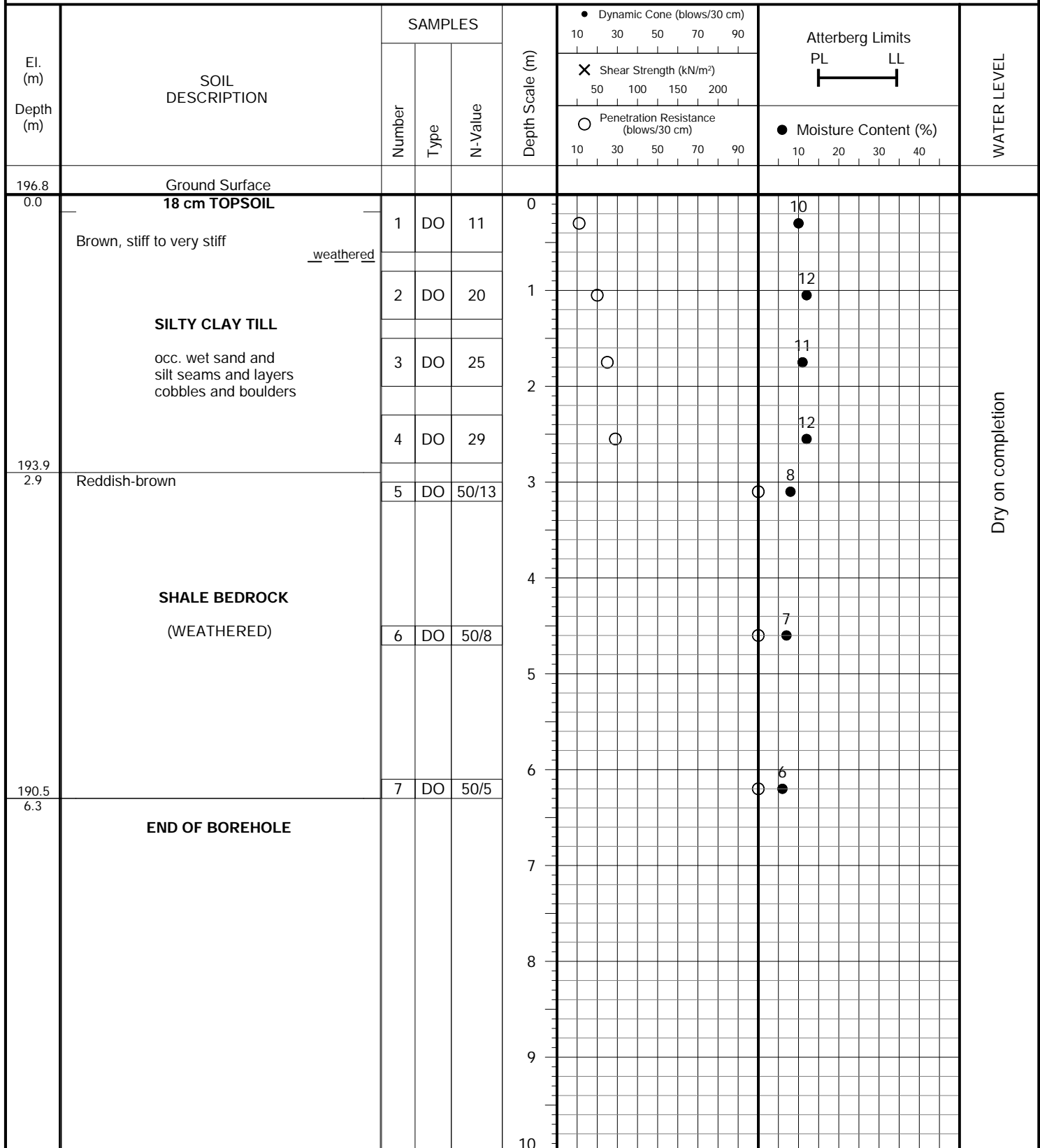
FIGURE NO.: 5

PROJECT DESCRIPTION: Proposed Residential Development**METHOD OF BORING:** Flight-Auger**PROJECT LOCATION:** 44-45 Longview Place
City of Mississauga**DRILLING DATE:** July 13, 2020**Soil Engineers Ltd.**

JOB NO.: 2006-S167

LOG OF BOREHOLE NO.: 6

FIGURE NO.: 6

PROJECT DESCRIPTION: Proposed Residential Development**METHOD OF BORING:** Flight-Auger**PROJECT LOCATION:** 44-45 Longview Place
City of Mississauga**DRILLING DATE:** July 8, 2020**Soil Engineers Ltd.**