

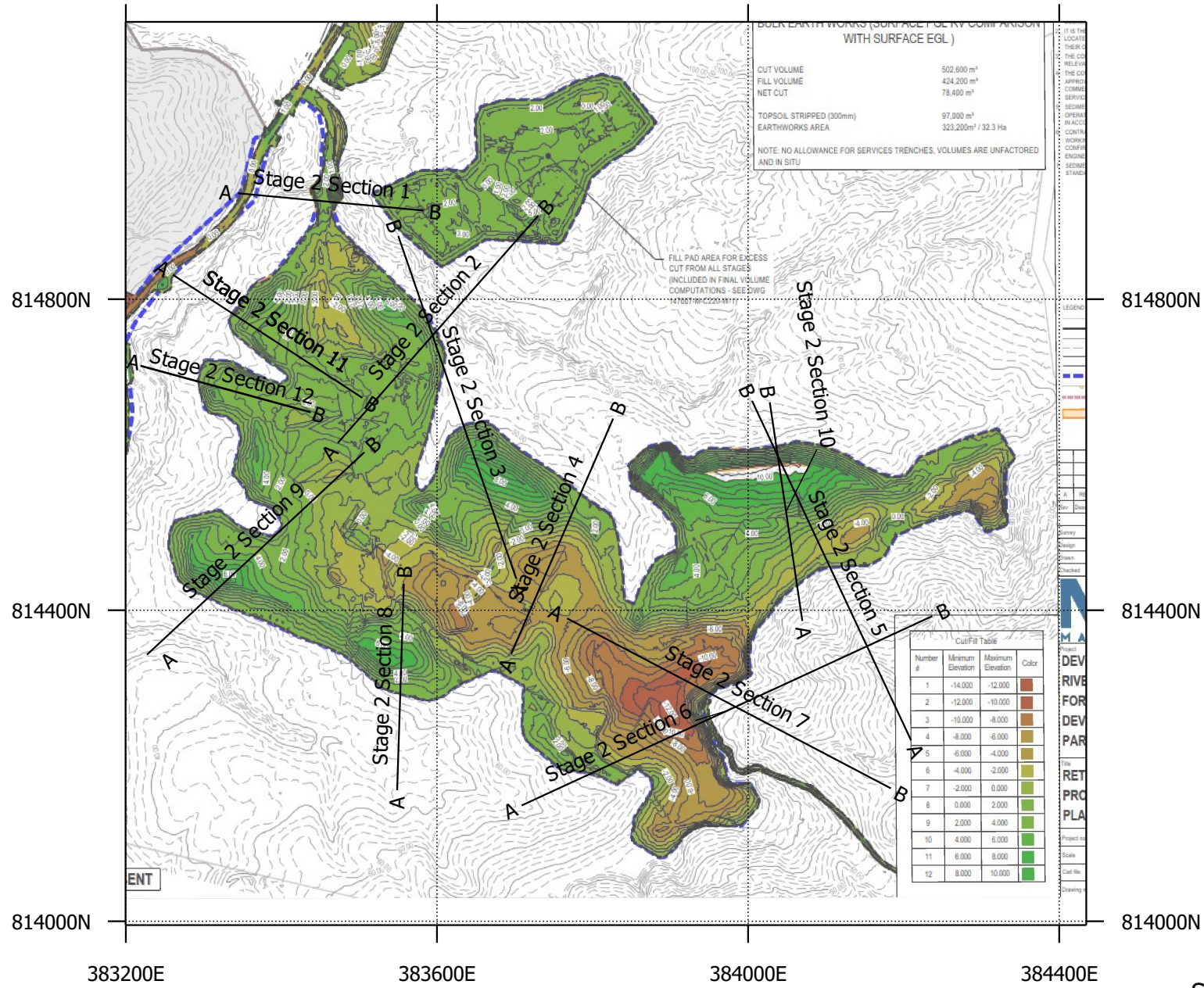
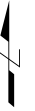
APPENDIX 9: Slope Stability Modelling Analysis

383200E

383600E

384000E

384400E



BULK EARTHWORKS (SURFACE TO SURFACE WITH SURFACE EGL)

CUT VOLUME	502,600 m ³
FILL VOLUME	424,200 m ³
NET CUT	78,400 m ³
TOPSOIL STRIPPED (300mm)	97,000 m ³
EARTHWORKS AREA	323,200m ² / 32.3 Ha

NOTE: NO ALLOWANCE FOR SERVICES TRENCHES. VOLUMES ARE UNFACTORED AND IN SITU

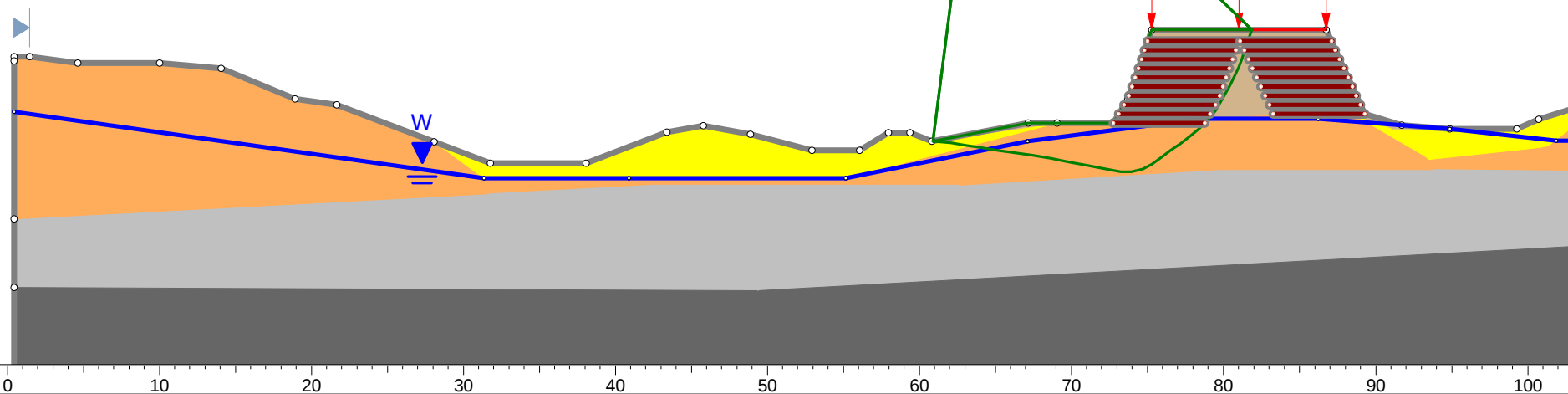
FILL PAD AREA FOR EXCESS CUT FROM ALL STAGES (INCLUDED IN FINAL VOLUME COMPUTATIONS - SEE DWG 147001/REV C 223 11/17)

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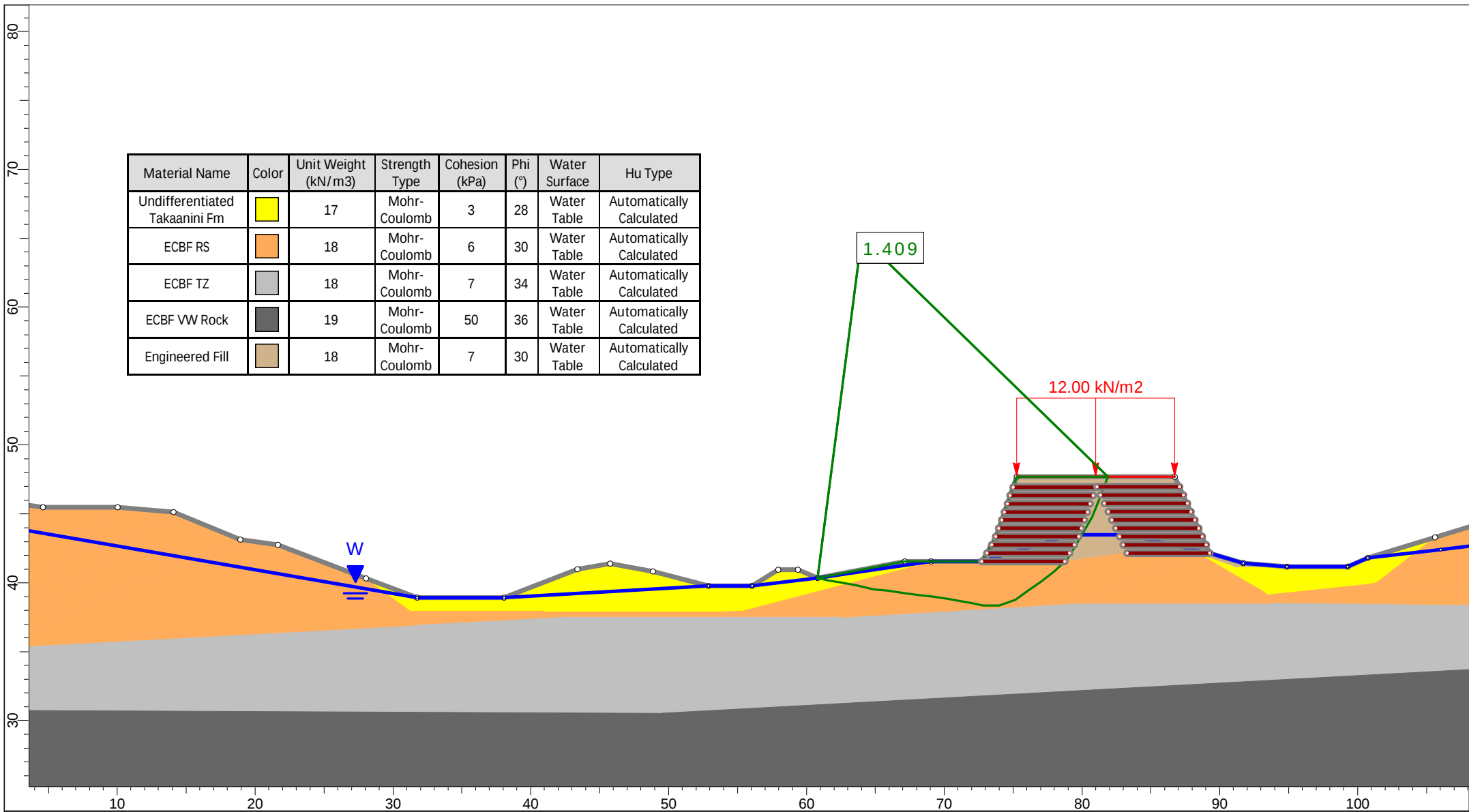
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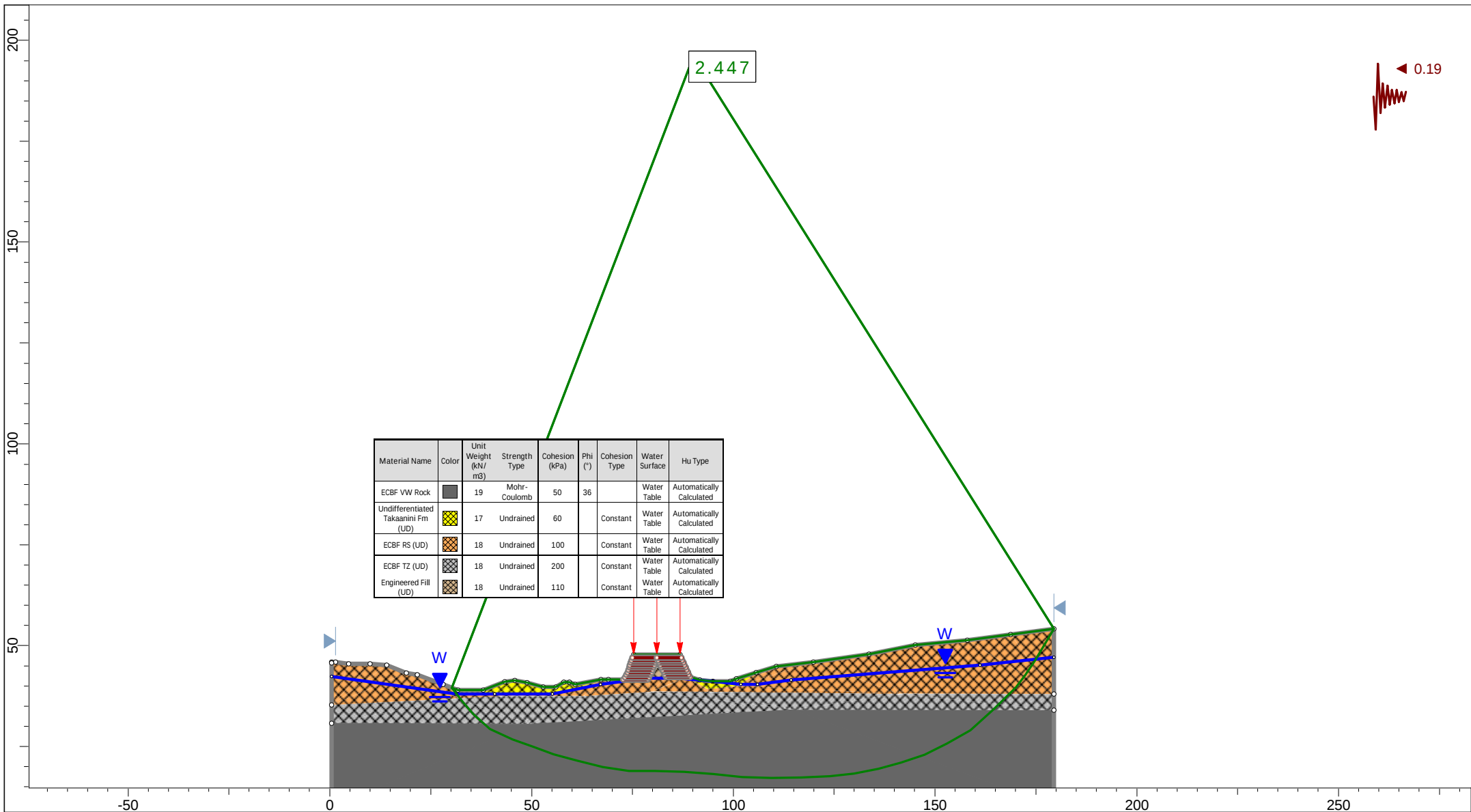
600m

Material Name	Color	Unit Weight (kN/m ³)	Strength Type	Cohesion (kPa)	Phi (°)	Water Surface	Hu Type
Undifferentiated Takaanini Fm		17	Mohr-Coulomb	3	28	Water Table	Automatically Calculated
ECBF RS		18	Mohr-Coulomb	6	30	Water Table	Automatically Calculated
ECBF TZ		18	Mohr-Coulomb	7	34	Water Table	Automatically Calculated
ECBF VW Rock		19	Mohr-Coulomb	50	36	Water Table	Automatically Calculated
Engineered Fill		18	Mohr-Coulomb	7	30	Water Table	Automatically Calculated

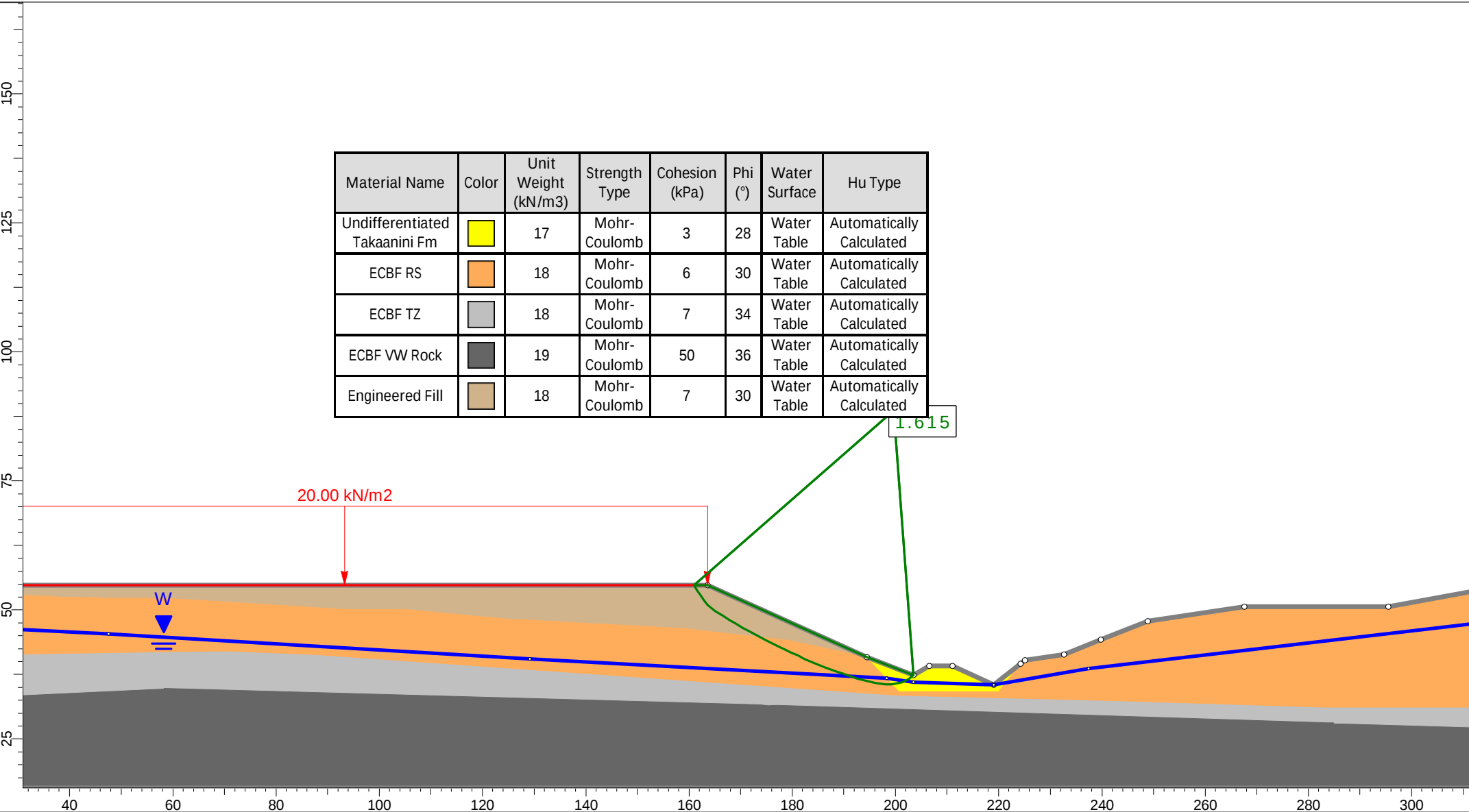


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Project:	Riverhead Development Forest		Analysis By:	JCh	Reviewed by: PF
Client:	Avant		Date:	21/03/2025	Revision:
Reference:	20190.000.001		Scale:	1:416	Page: 1 of 12



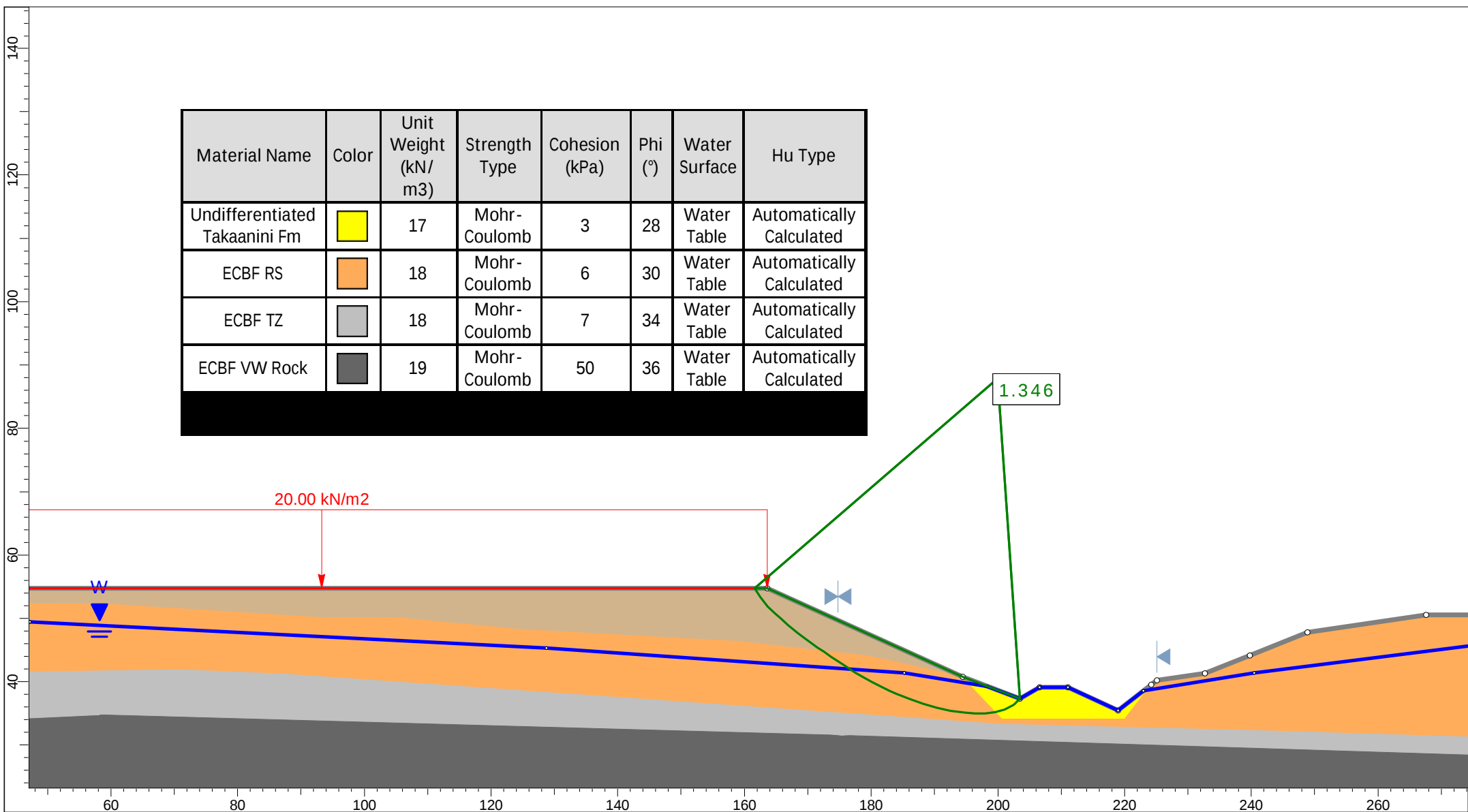


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Client:			Avant		Reviewed by: PF
Reference:			20190.000.001		Date: 21/03/2025
					Revision:
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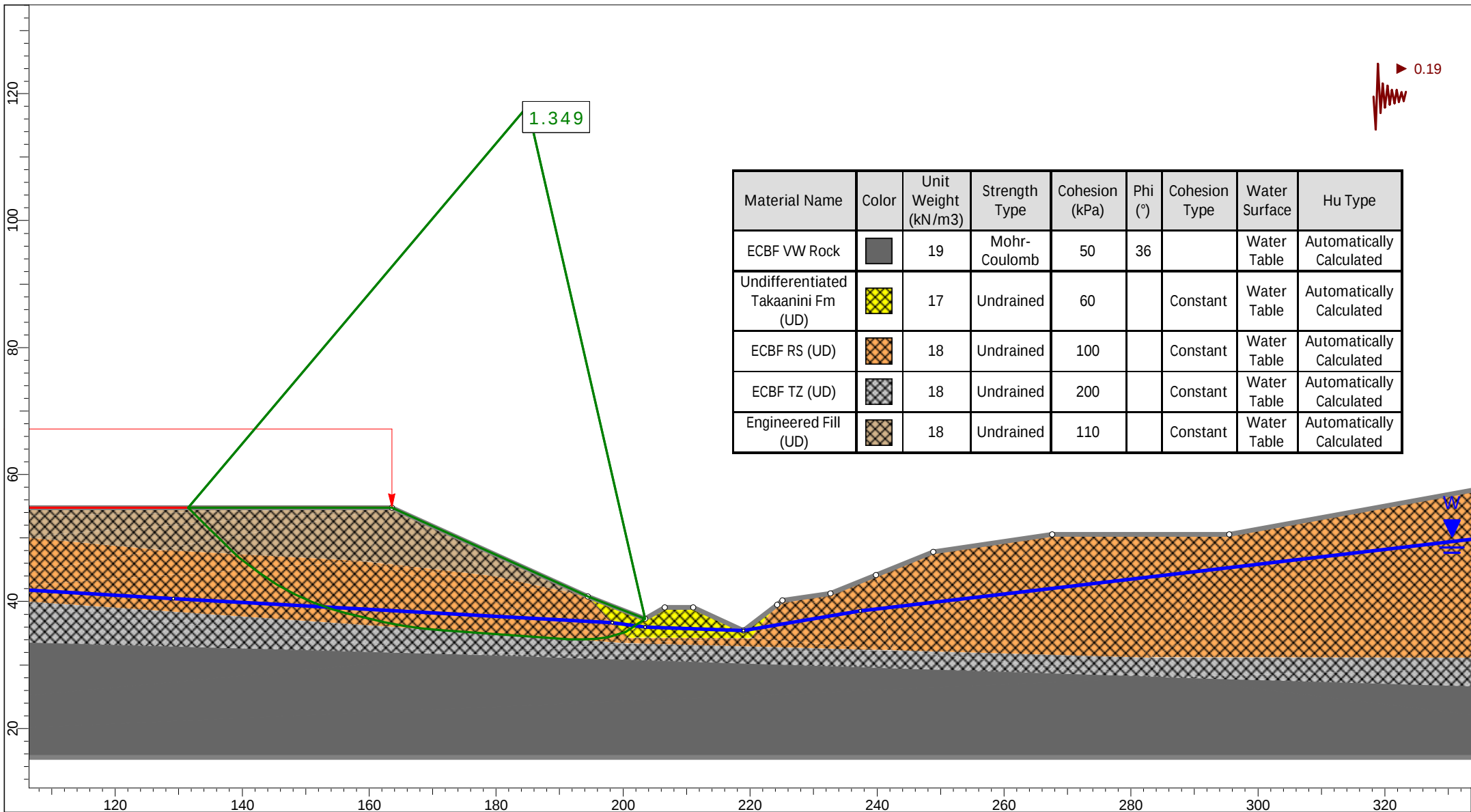


Material Name	Color	Unit Weight (kN/m³)	Strength Type	Cohesion (kPa)	Phi (°)	Water Surface	Hu Type
Undifferentiated Takaanini Fm		17	Mohr-Coulomb	3	28	Water Table	Automatically Calculated
ECBF RS		18	Mohr-Coulomb	6	30	Water Table	Automatically Calculated
ECBF TZ		18	Mohr-Coulomb	7	34	Water Table	Automatically Calculated
ECBF VW Rock		19	Mohr-Coulomb	50	36	Water Table	Automatically Calculated
Engineered Fill		18	Mohr-Coulomb	7	30	Water Table	Automatically Calculated

Material Name	Color	Unit Weight (kN/m ³)	Strength Type	Cohesion (kPa)	Phi (°)	Water Surface	Hu Type
Undifferentiated Takaanini Fm		17	Mohr-Coulomb	3	28	Water Table	Automatically Calculated
ECBF RS		18	Mohr-Coulomb	6	30	Water Table	Automatically Calculated
ECBF TZ		18	Mohr-Coulomb	7	34	Water Table	Automatically Calculated
ECBF VW Rock		19	Mohr-Coulomb	50	36	Water Table	Automatically Calculated

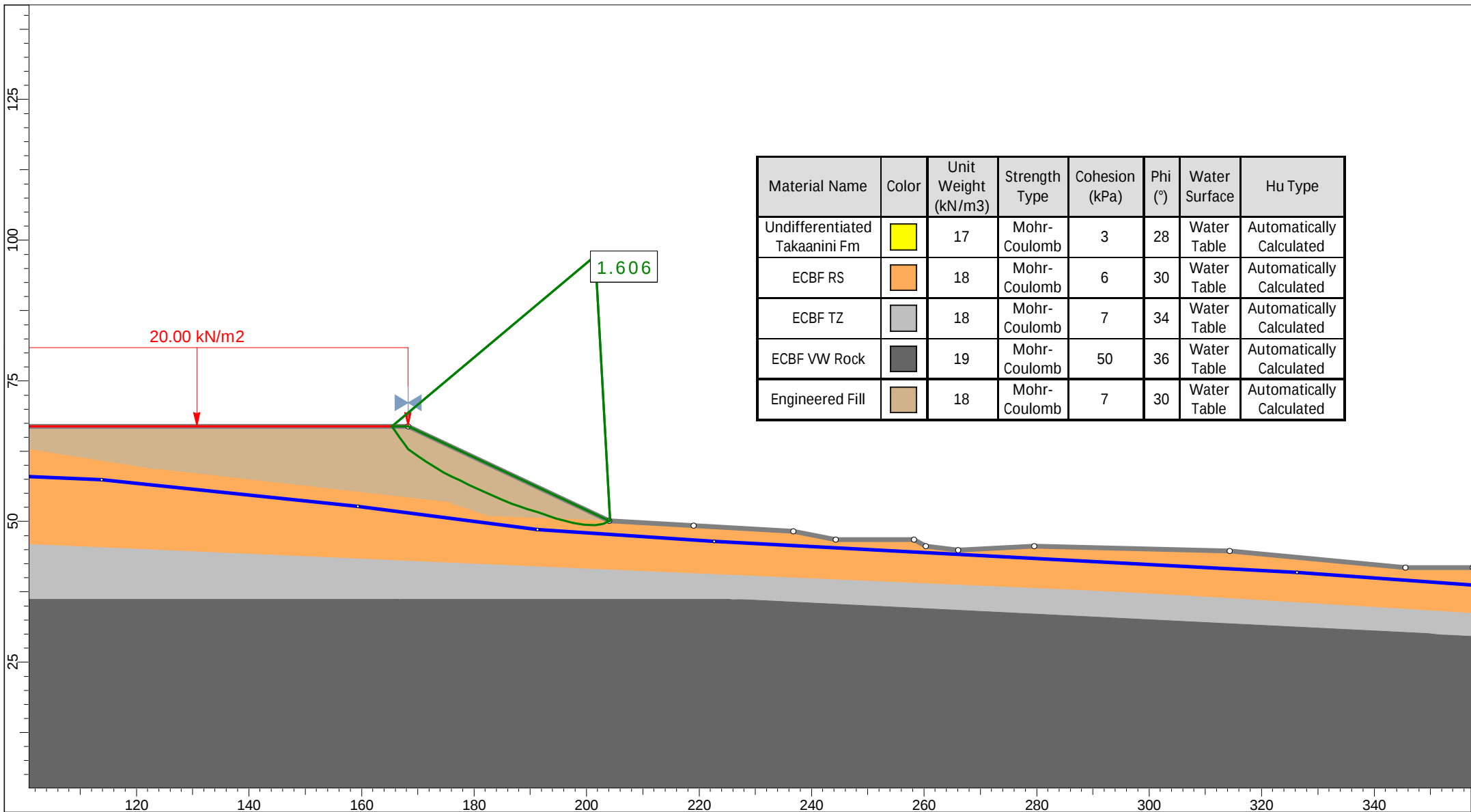


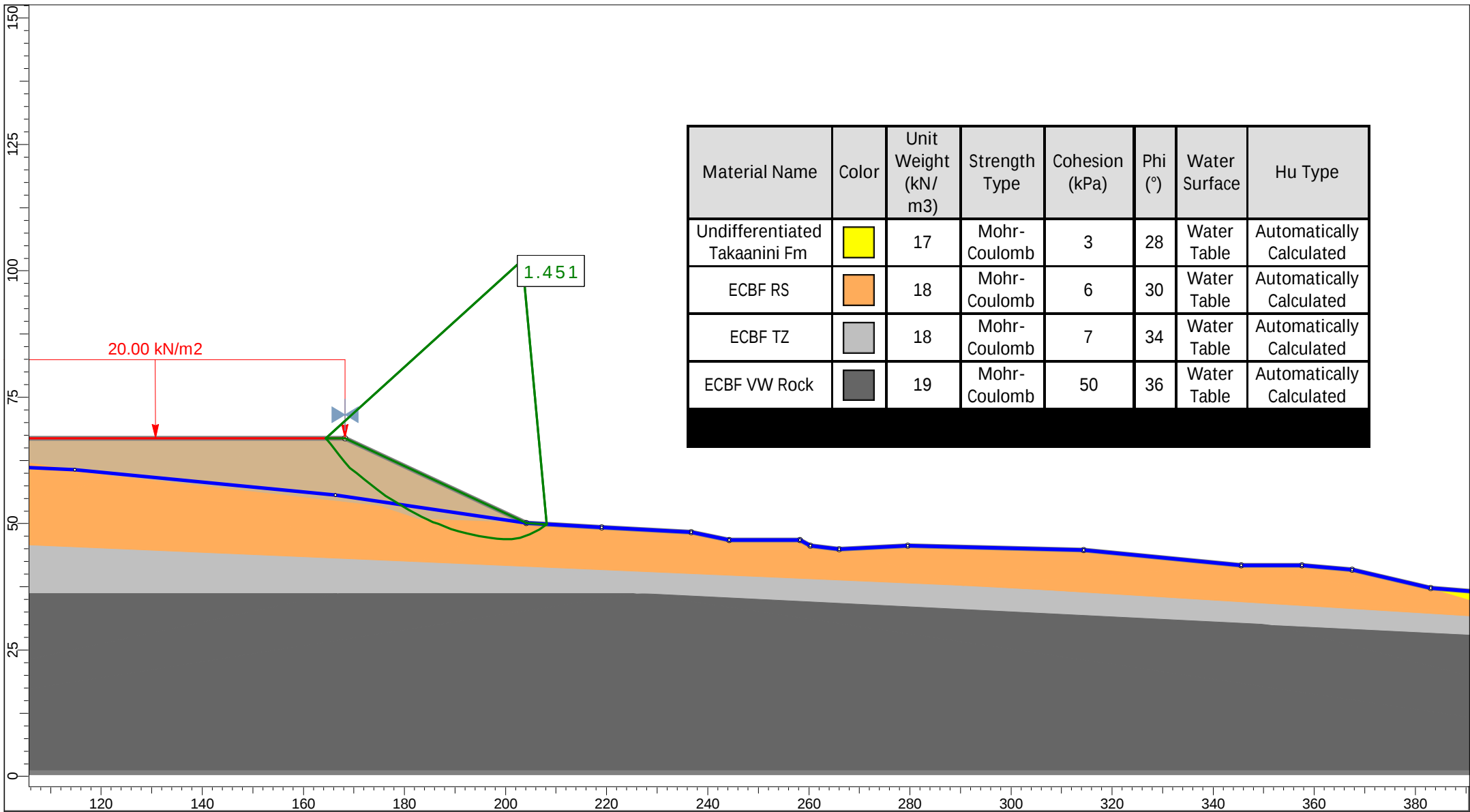
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Client:	Avant		Date:	21/03/2025	Revision:
Reference:	20190.000.001		Scale:	1:813	Page: 2 of 9

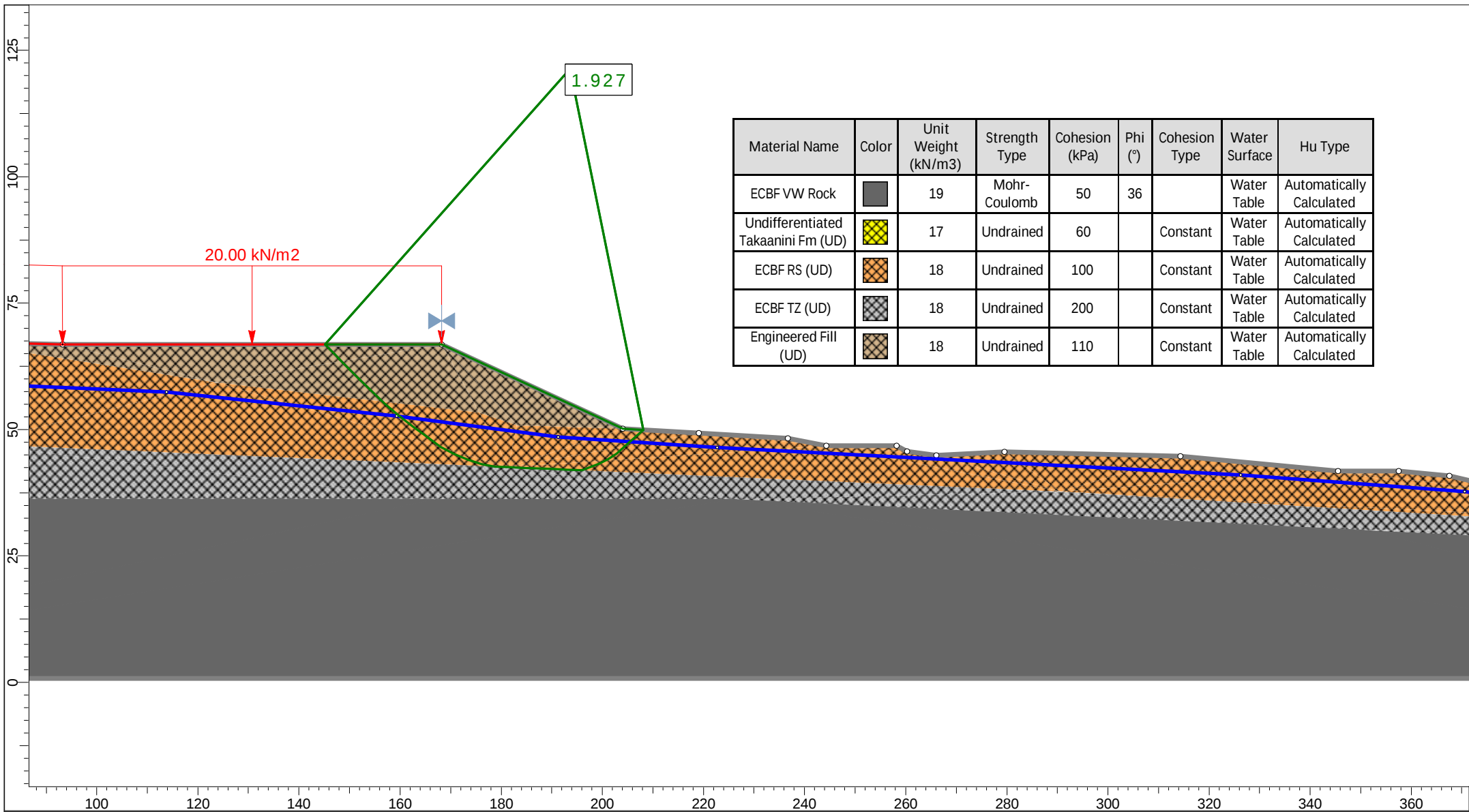


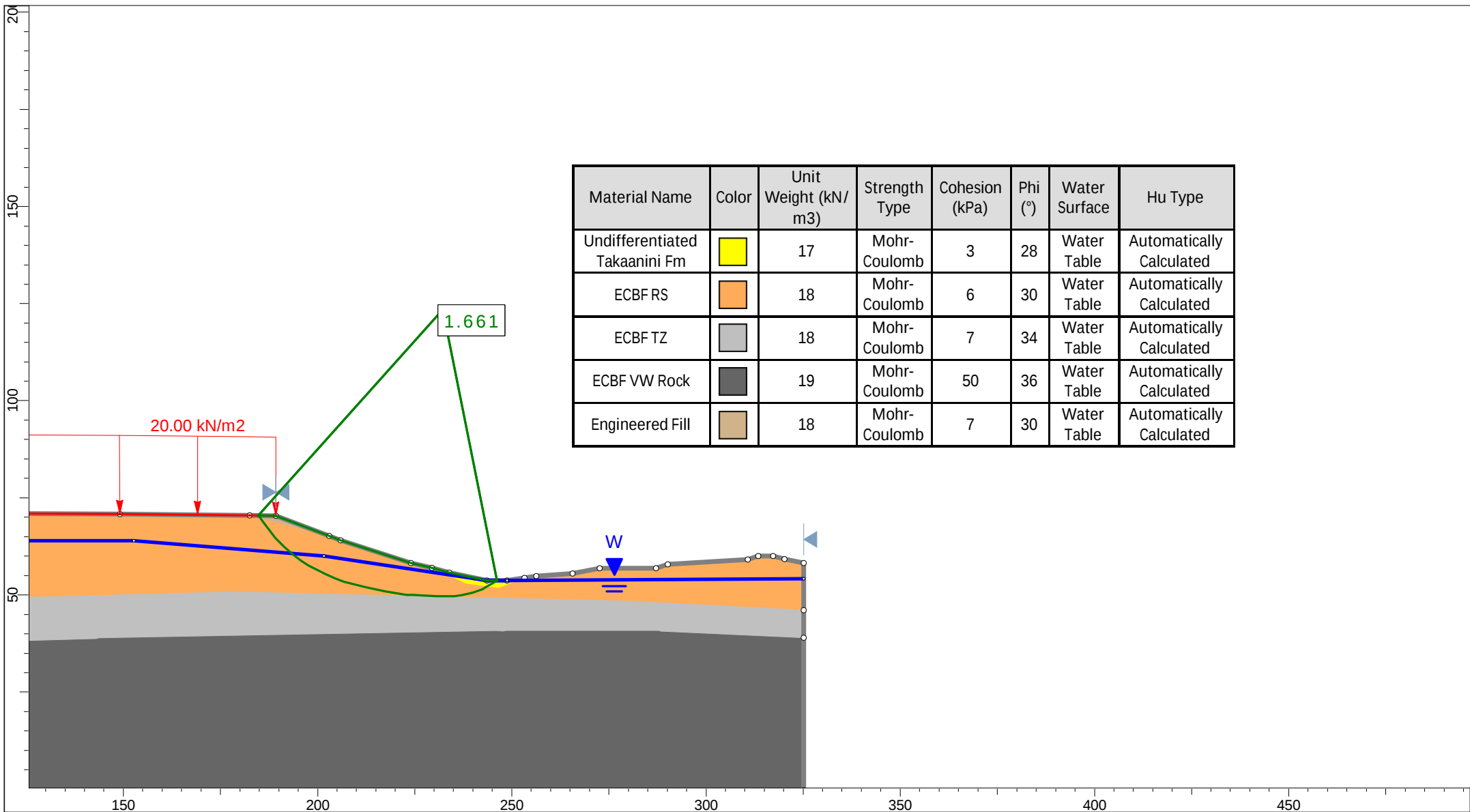
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ECBF VW Rock		19	Mohr-Coulomb	50	36		Water Table	Automatically Calculated
Undifferentiated Takaanini Fm (UD)		17	Undrained	60		Constant	Water Table	Automatically Calculated
ECBF RS (UD)		18	Undrained	100		Constant	Water Table	Automatically Calculated
ECBF TZ (UD)		18	Undrained	200		Constant	Water Table	Automatically Calculated
Engineered Fill (UD)		18	Undrained	110		Constant	Water Table	Automatically Calculated

Analysis:		Section 2 - Seismic					
Project:		Riverhead Development Forest		Analysis By: JCh		Reviewed by: PF	
Client:		Avant		Date: 21/03/2025		Revision:	
Reference:		20190.000.001		Scale: 1:813		Page: 3 of 9	



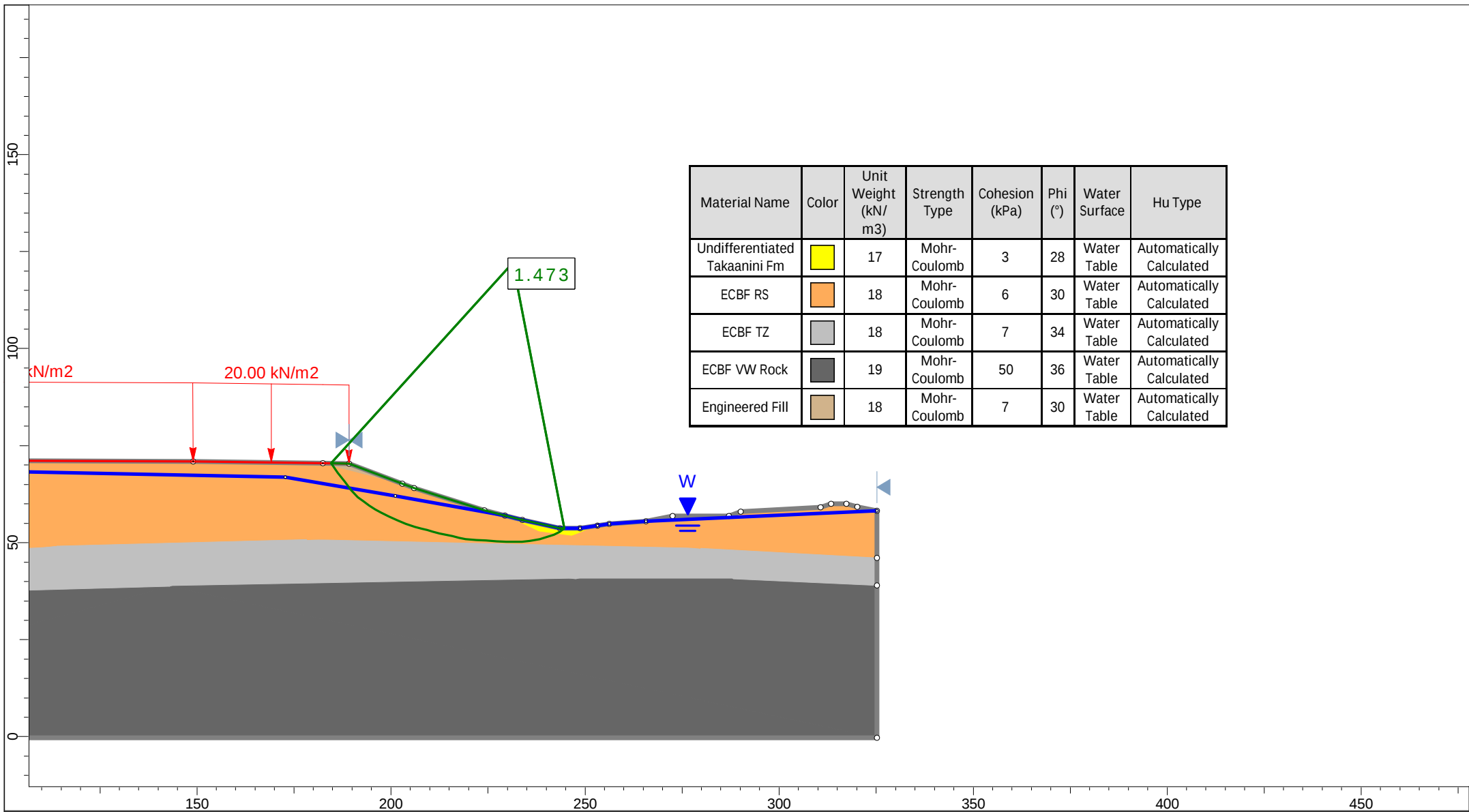


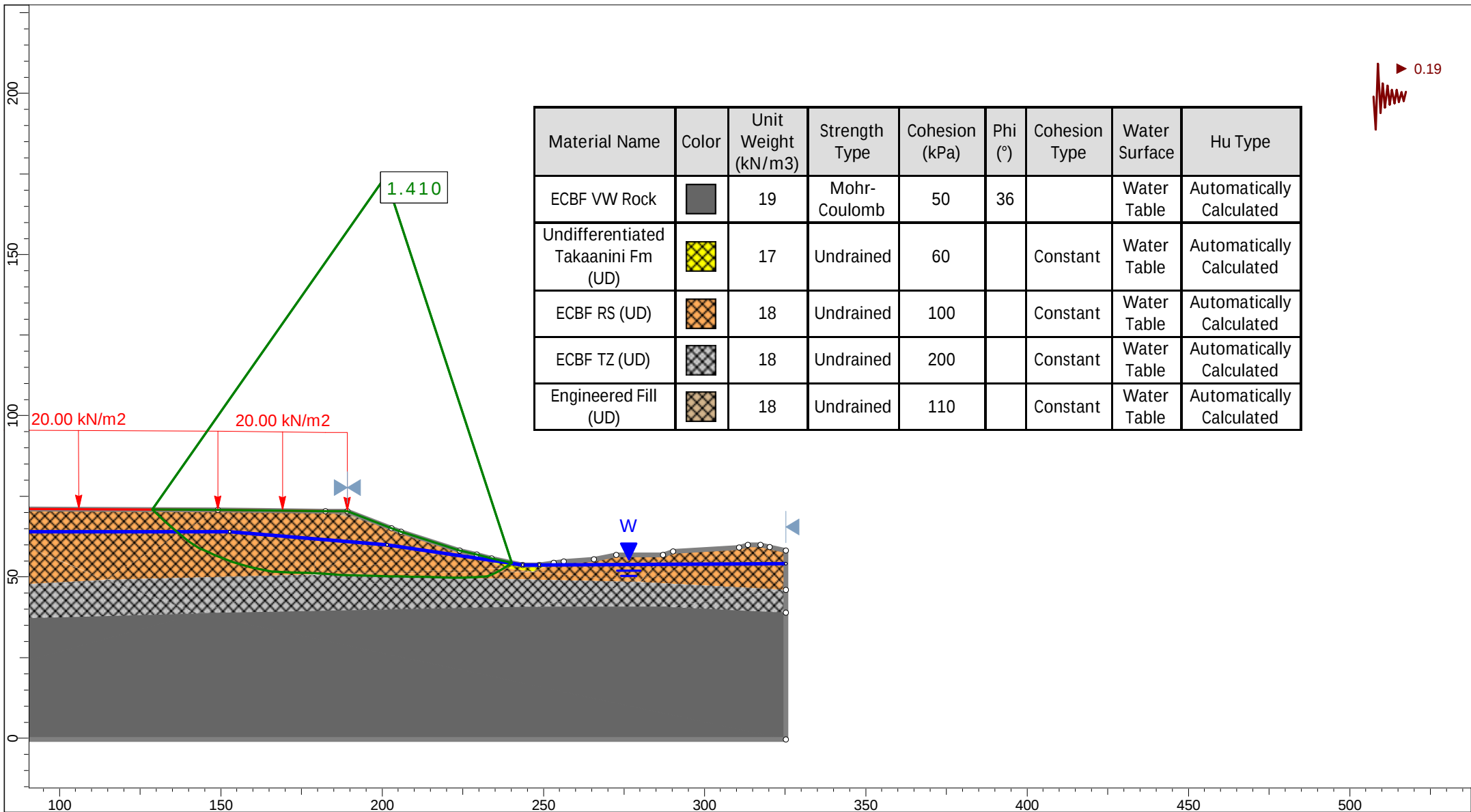




Material Name	Color	Unit Weight (kN/m ³)	Strength Type	Cohesion (kPa)	Phi (°)	Water Surface	Hu Type
Undifferentiated Takaanini Fm		17	Mohr-Coulomb	3	28	Water Table	Automatically Calculated
ECBF RS		18	Mohr-Coulomb	6	30	Water Table	Automatically Calculated
ECBF TZ		18	Mohr-Coulomb	7	34	Water Table	Automatically Calculated
ECBF VW Rock		19	Mohr-Coulomb	50	36	Water Table	Automatically Calculated
Engineered Fill		18	Mohr-Coulomb	7	30	Water Table	Automatically Calculated

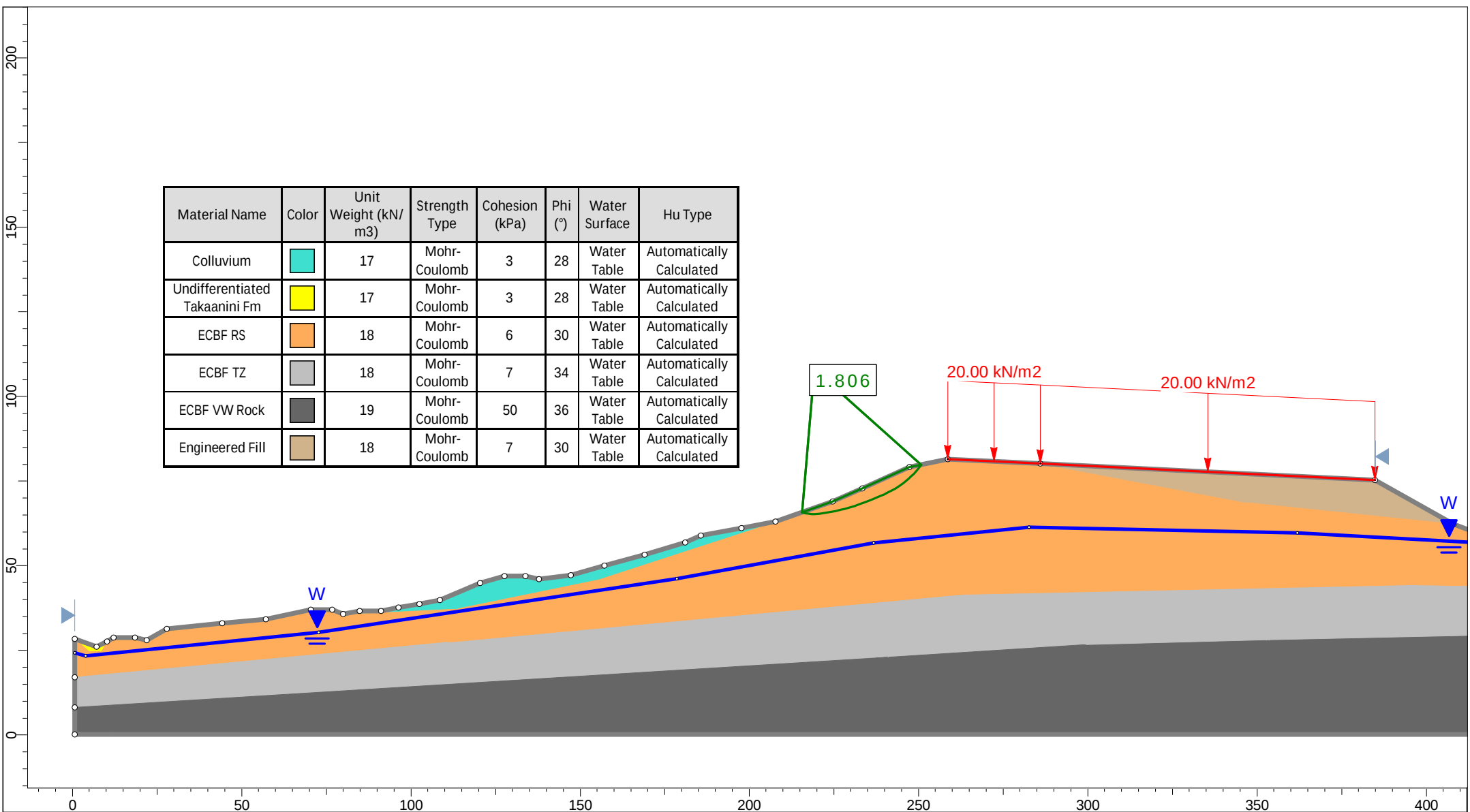
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Client:		Avant		Date: 21/03/2025		Revision:	
Reference:		20190.000.001		Scale: 1:1329		Page: 7 of 9	





Material Name	Color	Unit Weight (kN/m ³)	Strength Type	Cohesion (kPa)	Phi (°)	Cohesion Type	Water Surface	Hu Type
ECBF VW Rock		19	Mohr-Coulomb	50	36		Water Table	Automatically Calculated
Undifferentiated Takaanini Fm (UD)		17	Undrained	60		Constant	Water Table	Automatically Calculated
ECBF RS (UD)		18	Undrained	100		Constant	Water Table	Automatically Calculated
ECBF TZ (UD)		18	Undrained	200		Constant	Water Table	Automatically Calculated
Engineered Fill (UD)		18	Undrained	110		Constant	Water Table	Automatically Calculated

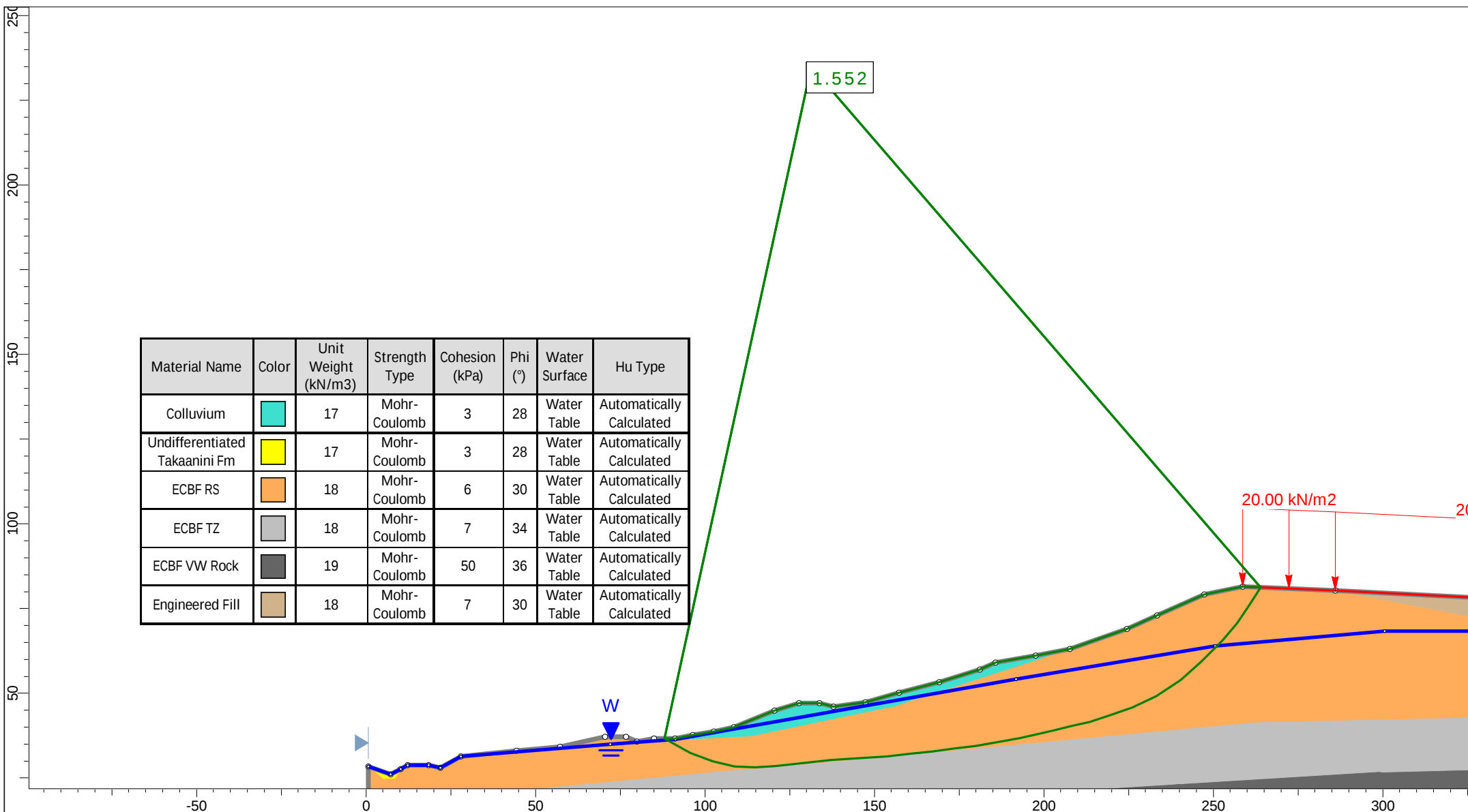
Material Name	Color	Unit Weight (kN/m3)	Strength Type	Cohesion (kPa)	Phi (°)	Water Surface	Hu Type
Colluvium		17	Mohr-Coulomb	3	28	Water Table	Automatically Calculated
Undifferentiated Takaanini Fm		17	Mohr-Coulomb	3	28	Water Table	Automatically Calculated
ECBF RS		18	Mohr-Coulomb	6	30	Water Table	Automatically Calculated
ECBF TZ		18	Mohr-Coulomb	7	34	Water Table	Automatically Calculated
ECBF VW Rock		19	Mohr-Coulomb	50	36	Water Table	Automatically Calculated
Engineered Fill		18	Mohr-Coulomb	7	30	Water Table	Automatically Calculated



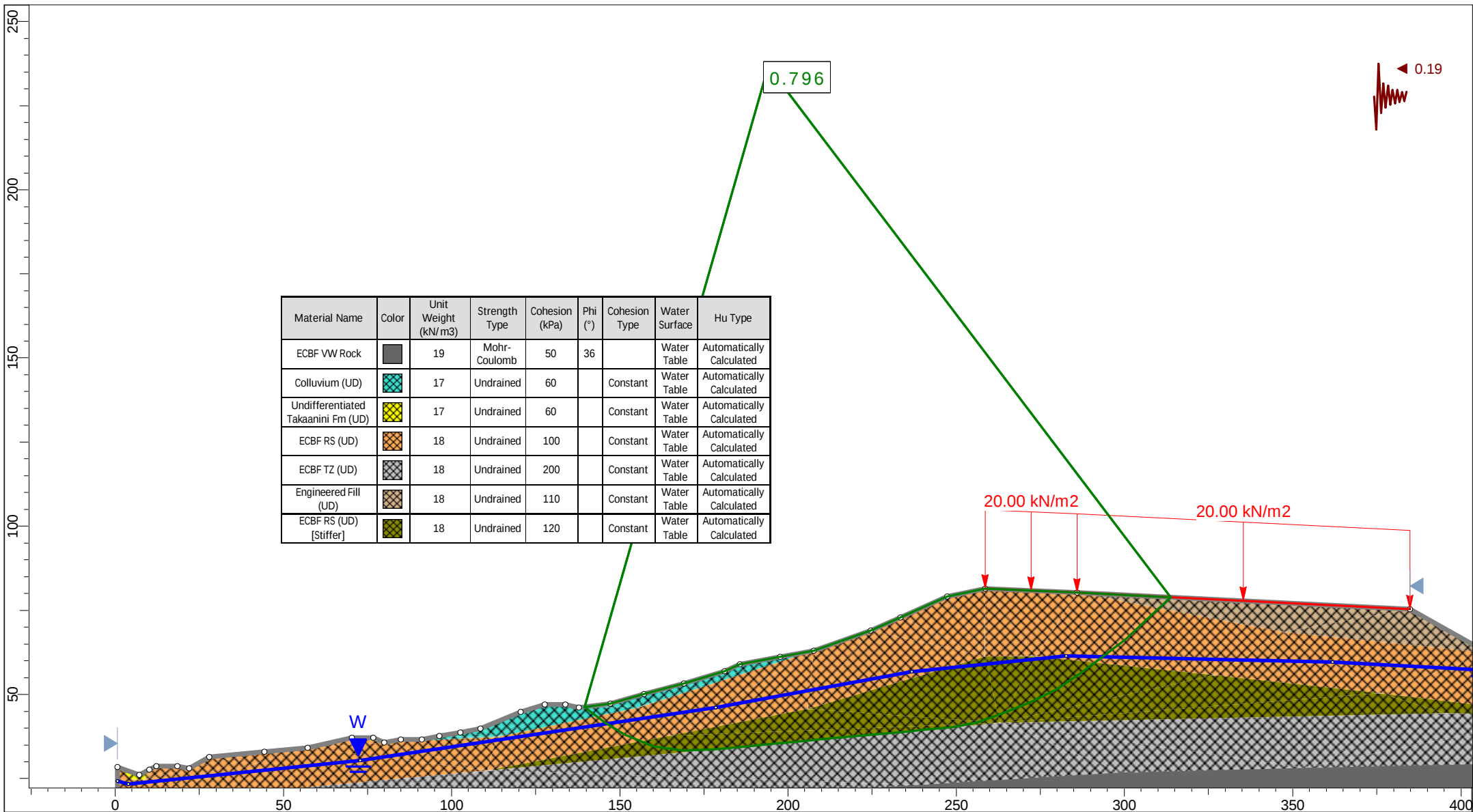
SLIDEINTERPRET 9.031

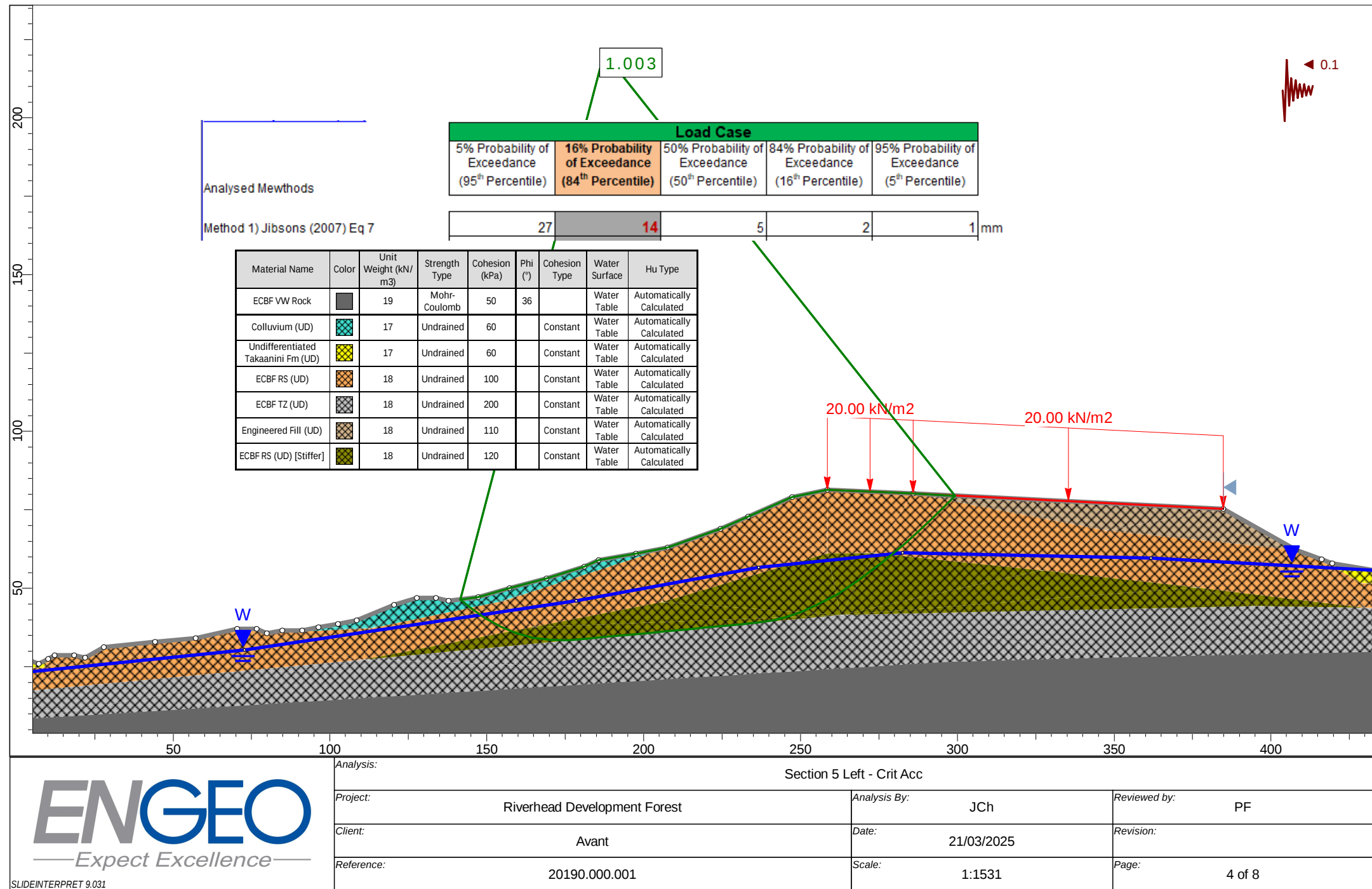
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Project: Riverhead Development Forest	Analysis By: JCh	Reviewed by: PF
Client: Avant	Date: 21/03/2025	Revision:
Reference: 20190.000.001	Scale: 1:1522	Page: 1 of 8

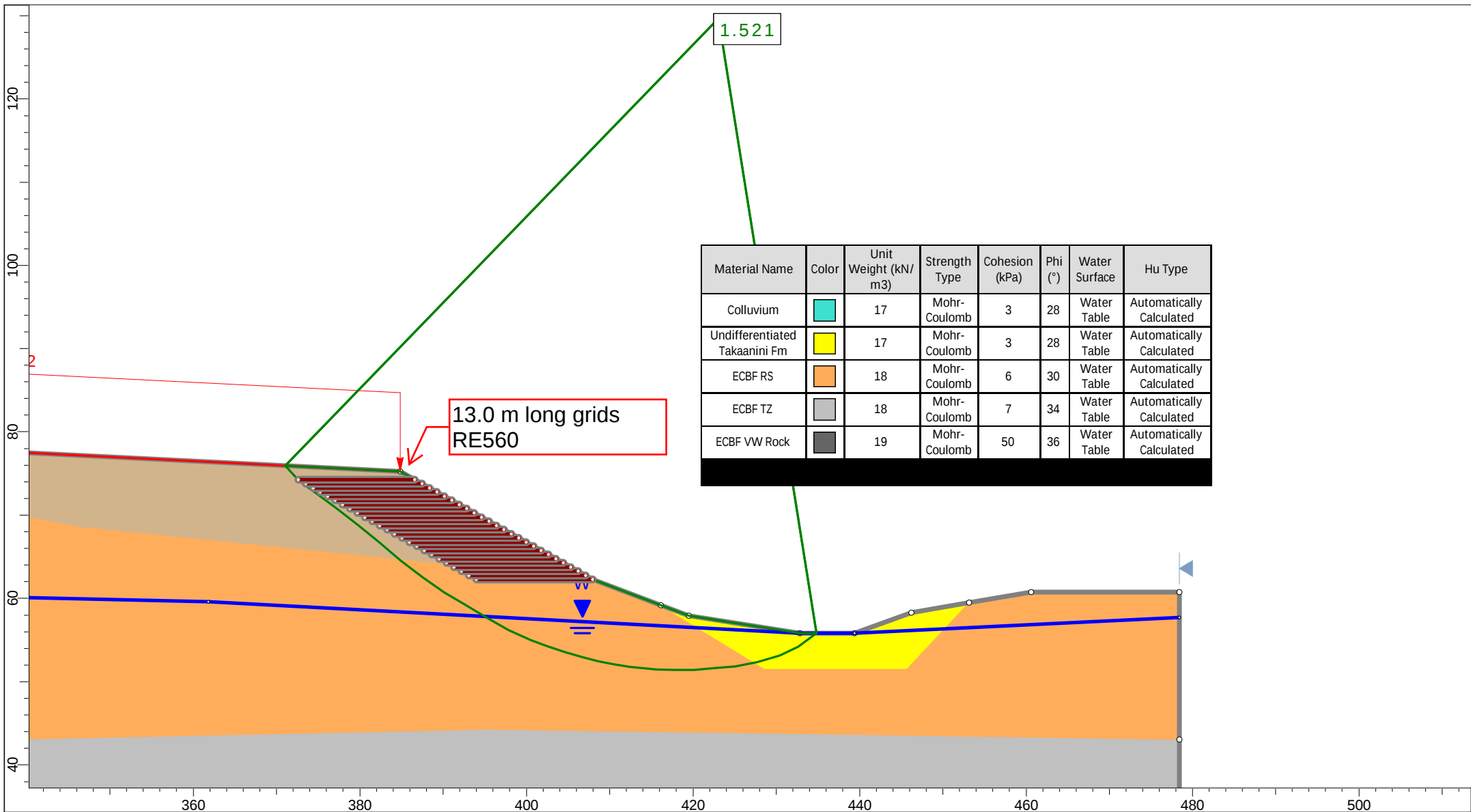
Material Name	Color	Unit Weight (kN/m3)	Strength Type	Cohesion (kPa)	Phi (°)	Water Surface	Hu Type
Colluvium		17	Mohr-Coulomb	3	28	Water Table	Automatically Calculated
Undifferentiated Takaanini Fm		17	Mohr-Coulomb	3	28	Water Table	Automatically Calculated
ECBF RS		18	Mohr-Coulomb	6	30	Water Table	Automatically Calculated
ECBF TZ		18	Mohr-Coulomb	7	34	Water Table	Automatically Calculated
ECBF VW Rock		19	Mohr-Coulomb	50	36	Water Table	Automatically Calculated
Engineered Fill		18	Mohr-Coulomb	7	30	Water Table	Automatically Calculated

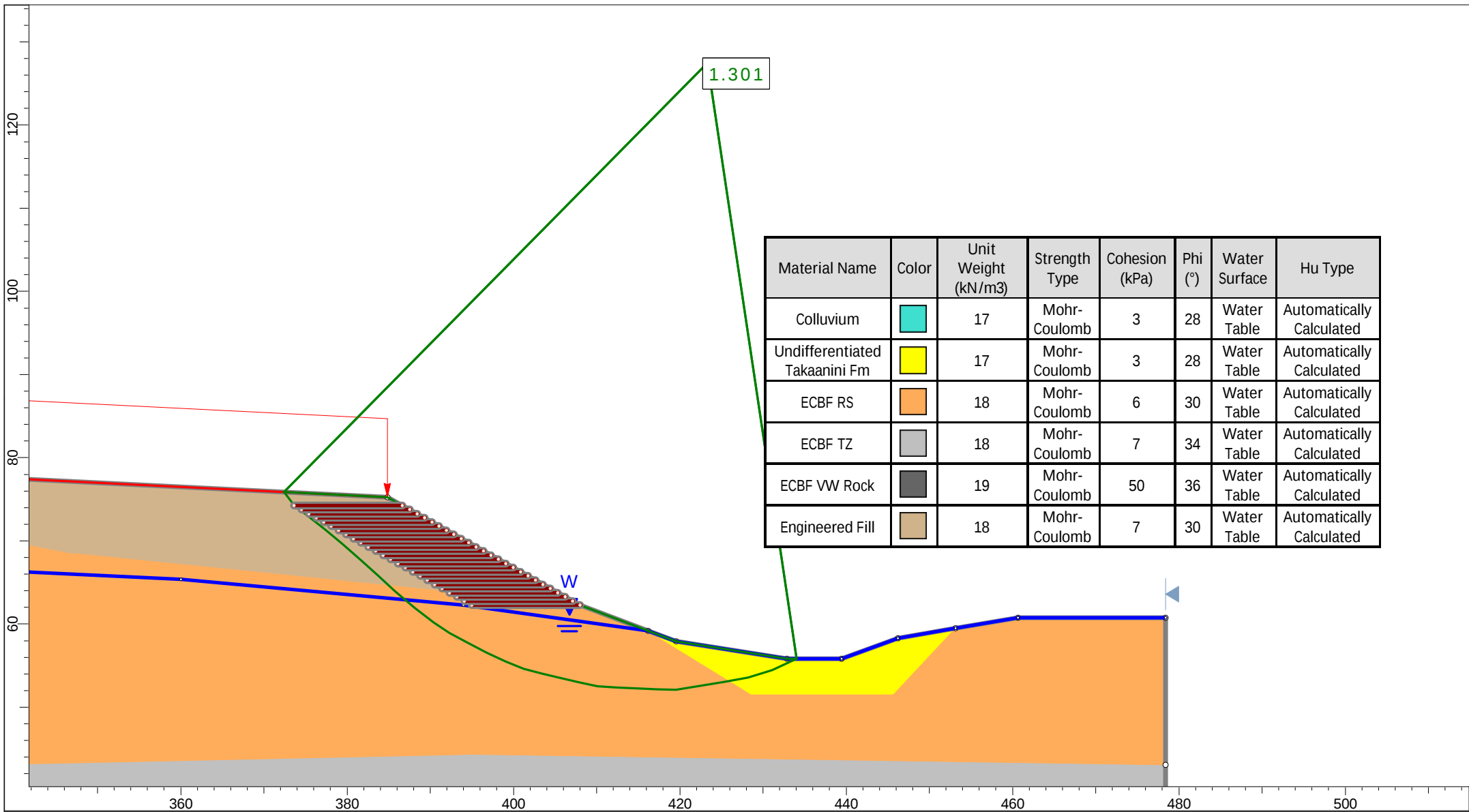


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Client:	Avant	Date:	21/03/2025
Reference:	20190.000.001	Scale:	1:1522
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		Revision:	
		Page:	2 of 8

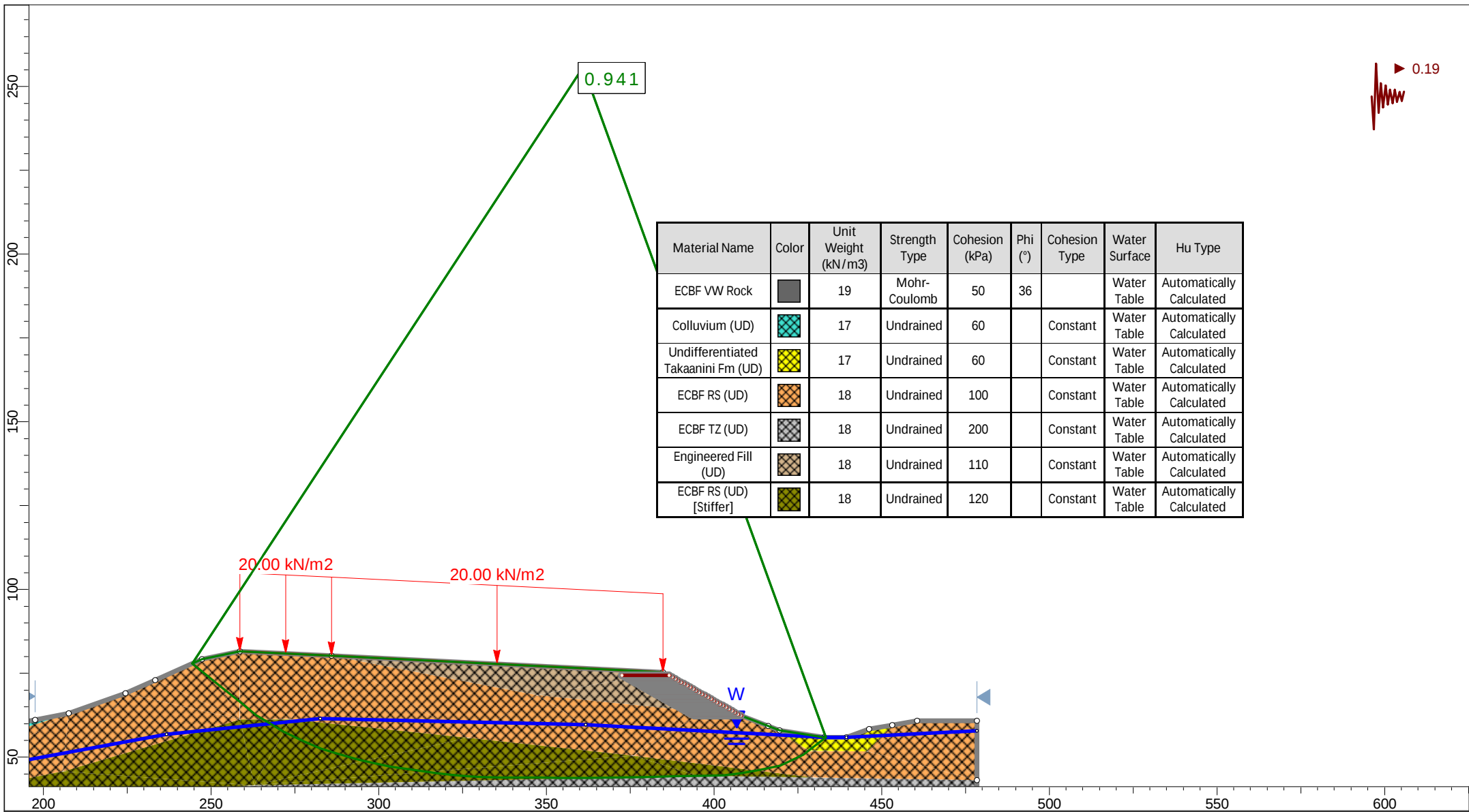




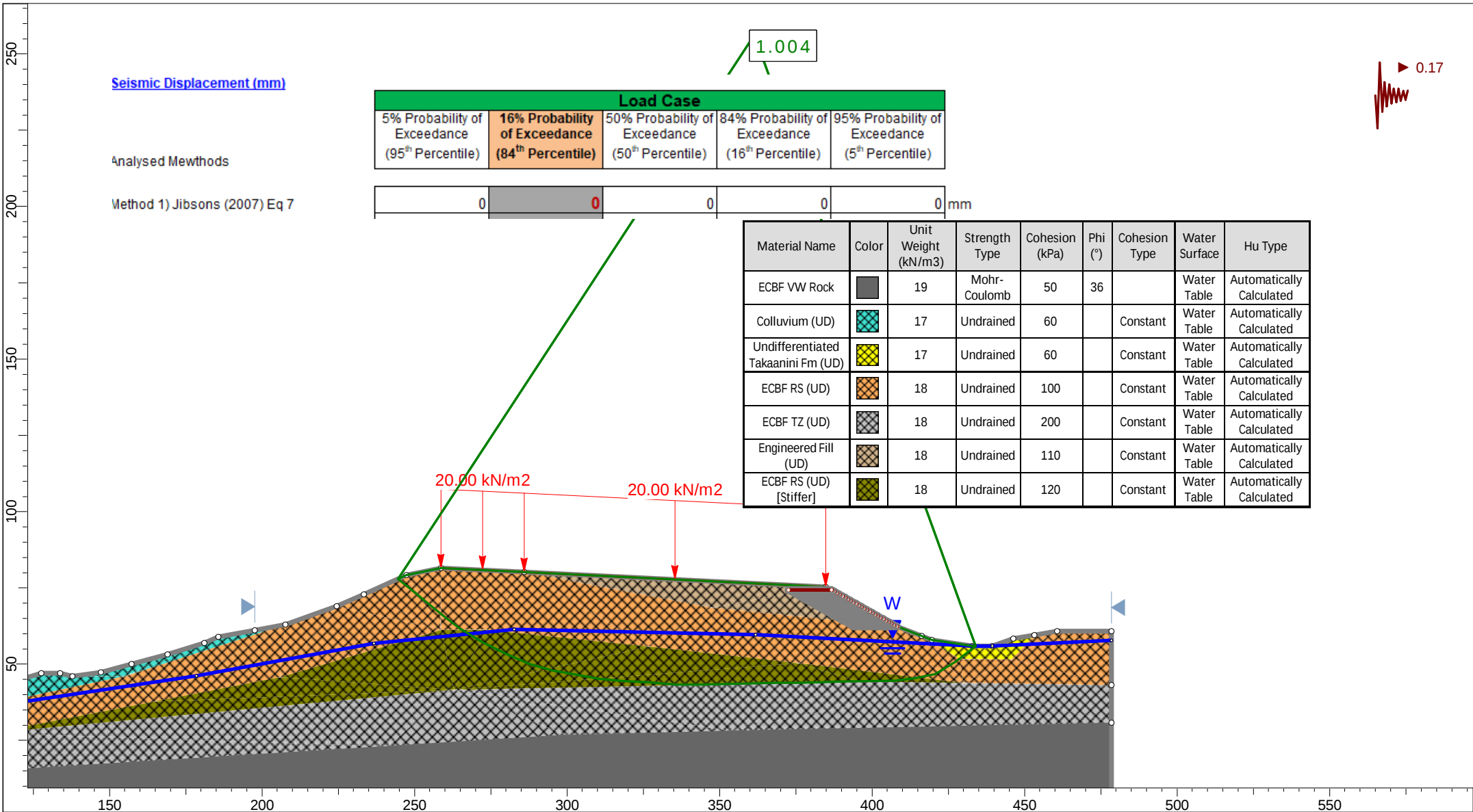


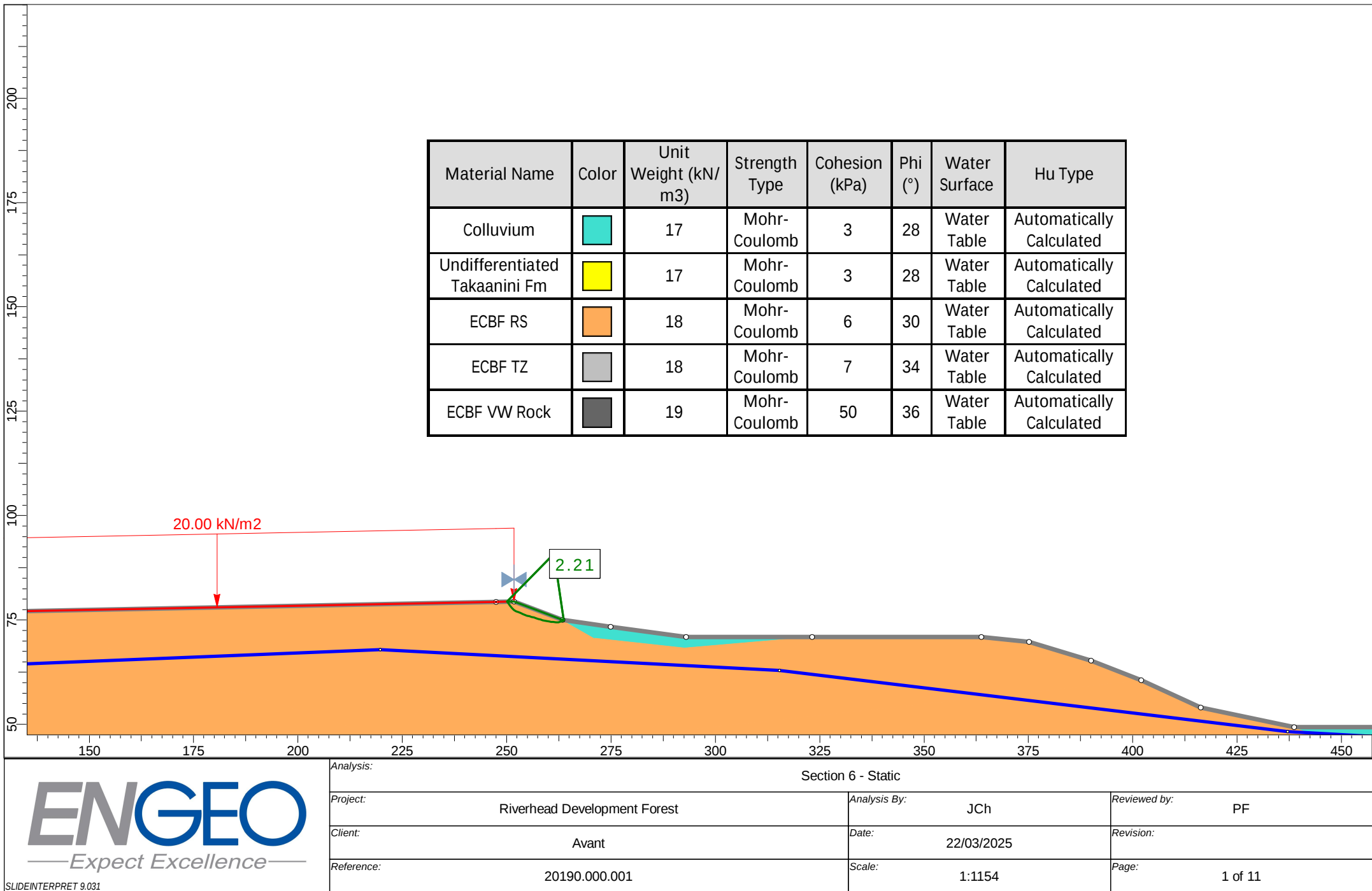


Material Name	Color	Unit Weight (kN/m3)	Strength Type	Cohesion (kPa)	Phi (°)	Water Surface	Hu Type
Colluvium		17	Mohr-Coulomb	3	28	Water Table	Automatically Calculated
Undifferentiated Takaanini Fm		17	Mohr-Coulomb	3	28	Water Table	Automatically Calculated
ECBF RS		18	Mohr-Coulomb	6	30	Water Table	Automatically Calculated
ECBF TZ		18	Mohr-Coulomb	7	34	Water Table	Automatically Calculated
ECBF VW Rock		19	Mohr-Coulomb	50	36	Water Table	Automatically Calculated
Engineered Fill		18	Mohr-Coulomb	7	30	Water Table	Automatically Calculated

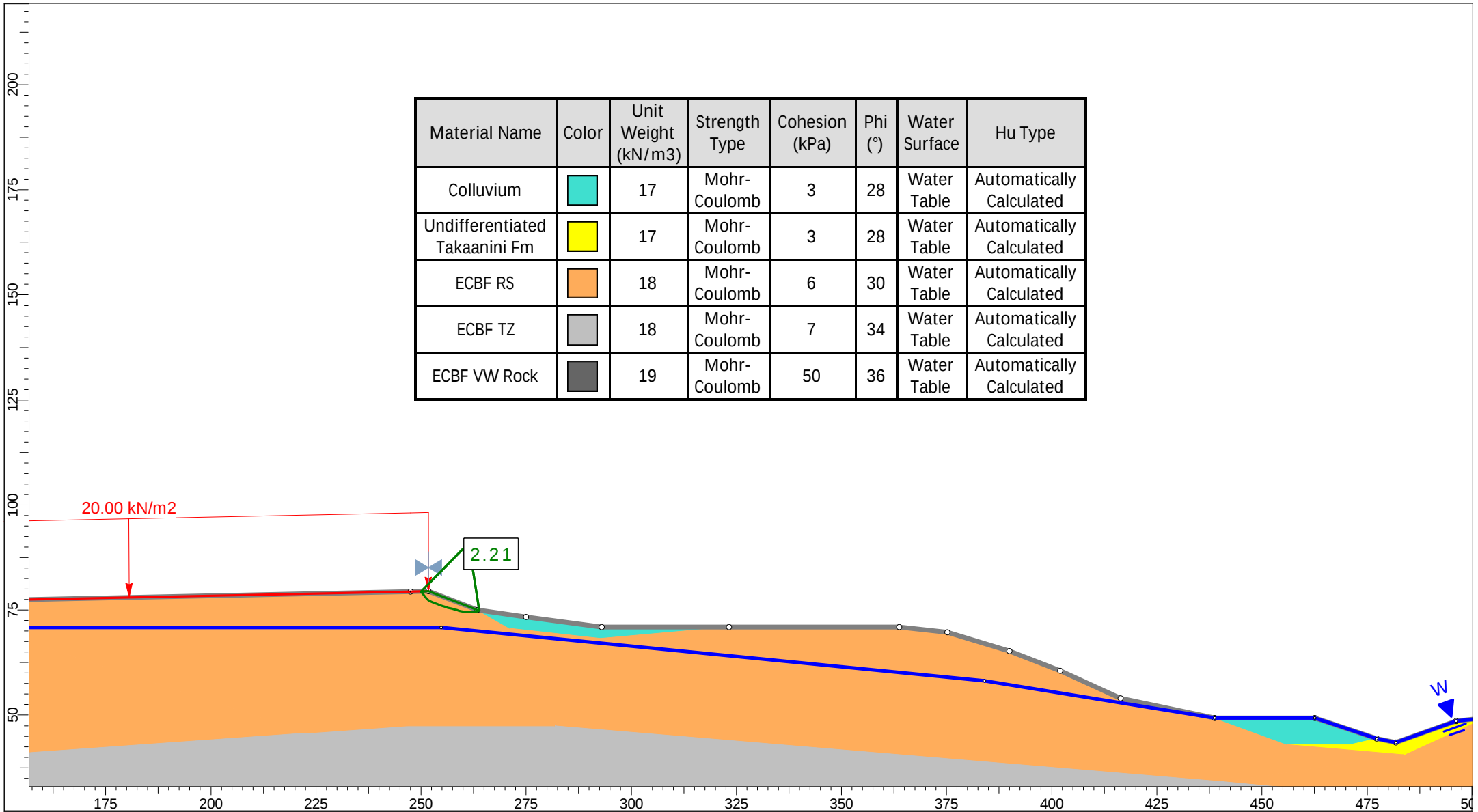


Material Name	Color	Unit Weight (kN/m3)	Strength Type	Cohesion (kPa)	Phi (°)	Cohesion Type	Water Surface	Hu Type
ECBF VW Rock		19	Mohr-Coulomb	50	36		Water Table	Automatically Calculated
Colluvium (UD)		17	Undrained	60		Constant	Water Table	Automatically Calculated
Undifferentiated Takaanini Fm (UD)		17	Undrained	60		Constant	Water Table	Automatically Calculated
ECBF RS (UD)		18	Undrained	100		Constant	Water Table	Automatically Calculated
ECBF TZ (UD)		18	Undrained	200		Constant	Water Table	Automatically Calculated
Engineered Fill (UD)		18	Undrained	110		Constant	Water Table	Automatically Calculated
ECBF RS (UD) [Stiffer]		18	Undrained	120		Constant	Water Table	Automatically Calculated

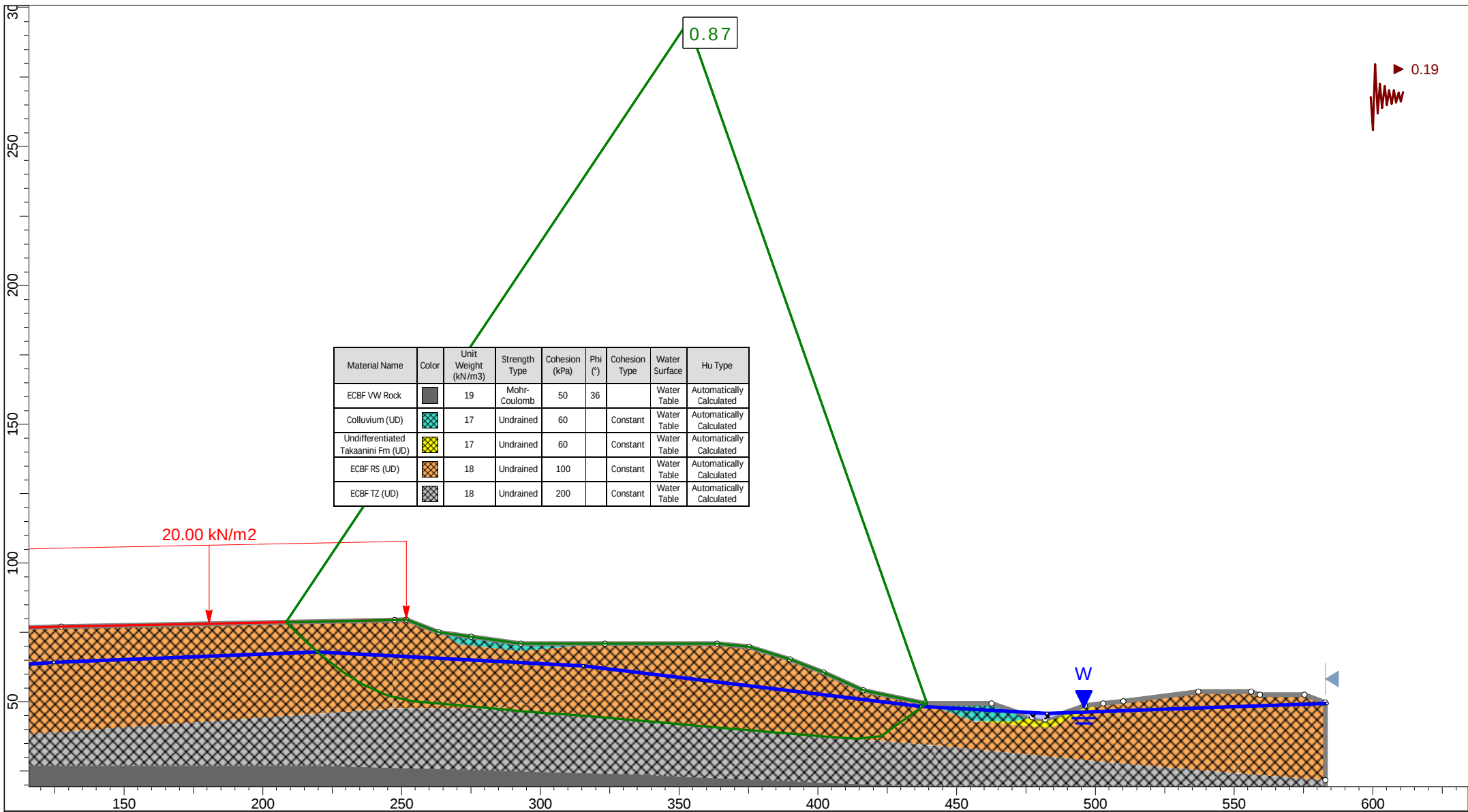




Material Name	Color	Unit Weight (kN/m3)	Strength Type	Cohesion (kPa)	Phi (°)	Water Surface	Hu Type
Colluvium		17	Mohr-Coulomb	3	28	Water Table	Automatically Calculated
Undifferentiated Takaanini Fm		17	Mohr-Coulomb	3	28	Water Table	Automatically Calculated
ECBF RS		18	Mohr-Coulomb	6	30	Water Table	Automatically Calculated
ECBF TZ		18	Mohr-Coulomb	7	34	Water Table	Automatically Calculated
ECBF VW Rock		19	Mohr-Coulomb	50	36	Water Table	Automatically Calculated



Analysis:	Section 6 - Transient		
Project:	Riverhead Development Forest	Analysis By:	JCh
Client:	Avant	Date:	22/03/2025
Reference:	20190.000.001	Scale:	1:1229
		Reviewed by:	PF
		Revision:	
		Page:	2 of 11



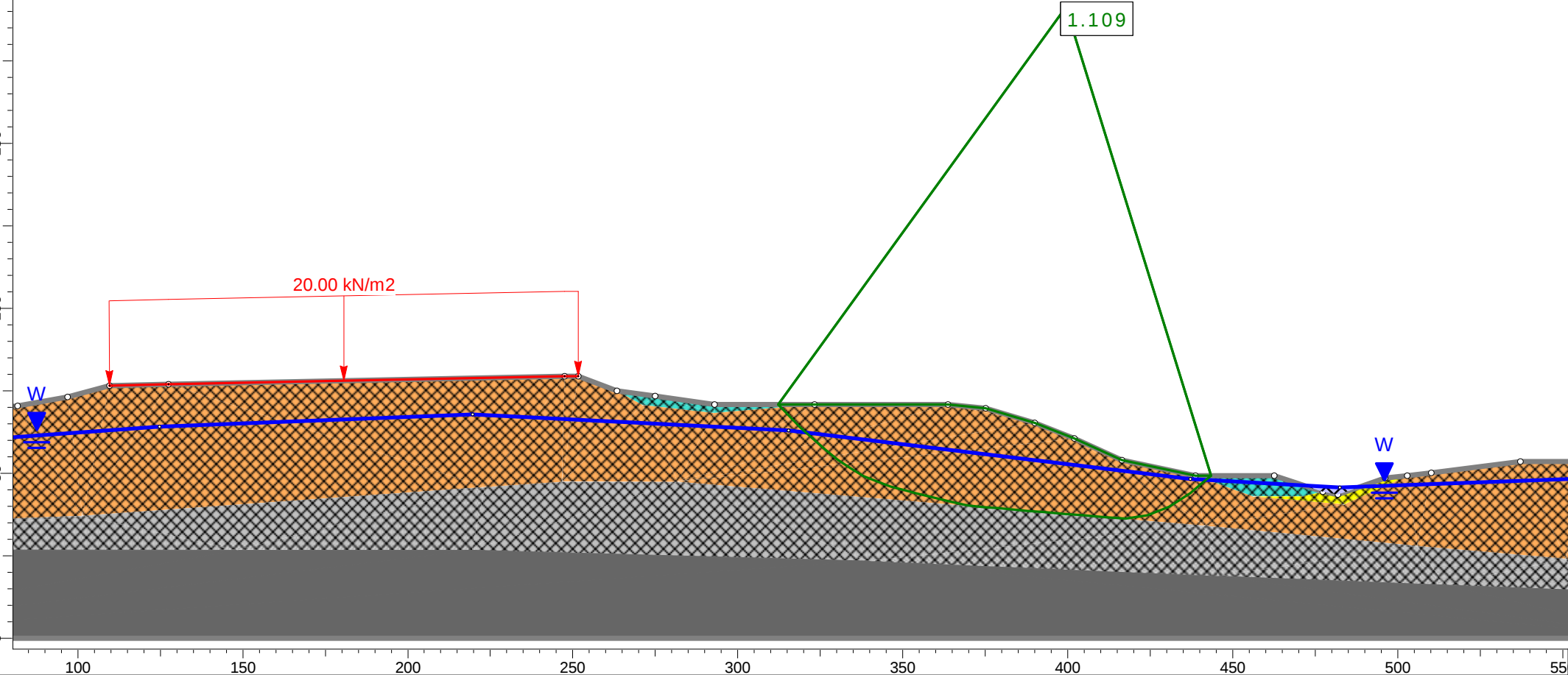
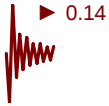
Seismic Displacement (mm)

Analysed Mewthods

Method 1) Jibsons (2007) Eq 7

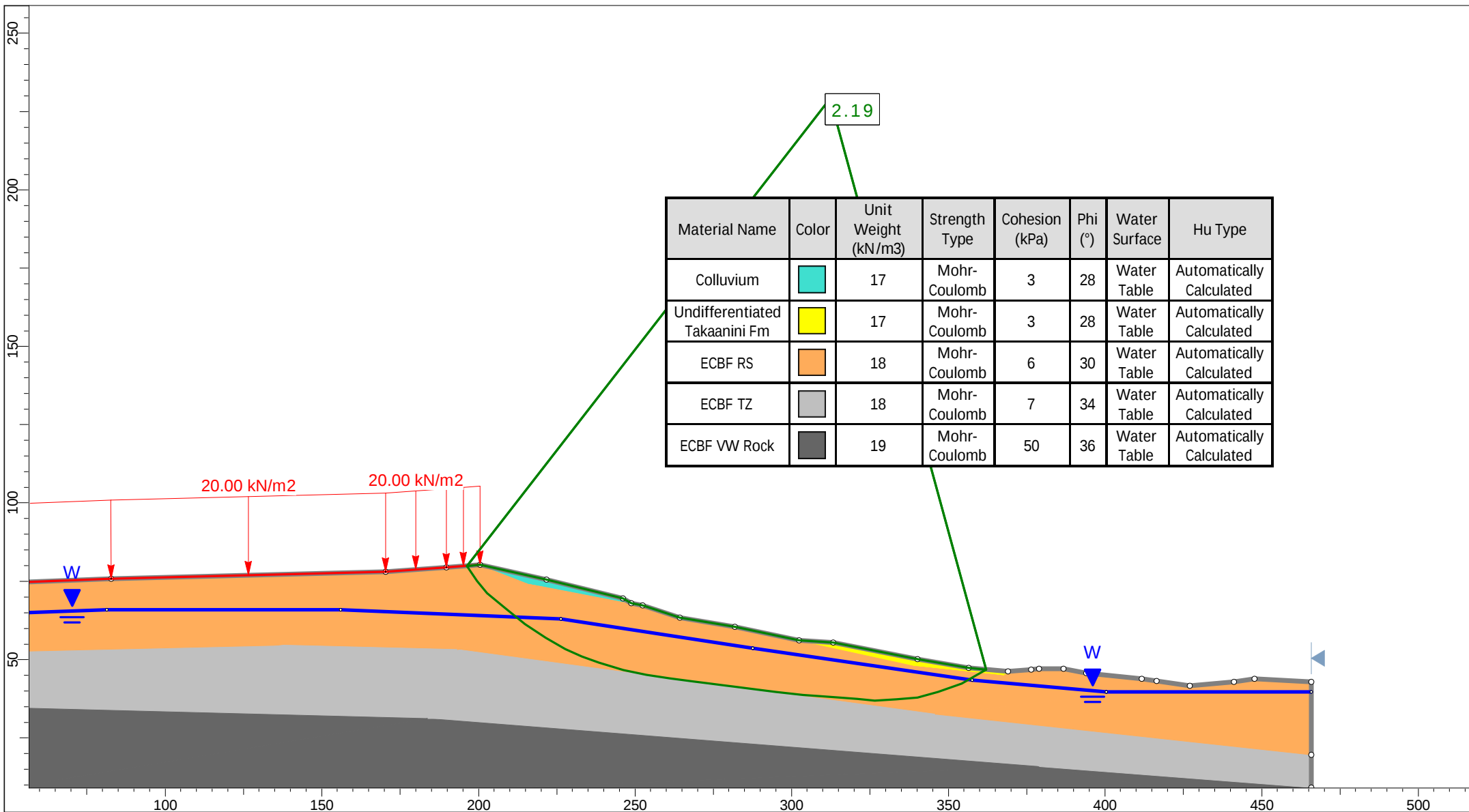
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5% Probability of Exceedance (95 th Percentile)	16% Probability of Exceedance (84 th Percentile)	50% Probability of Exceedance (50 th Percentile)	84% Probability of Exceedance (16 th Percentile)	95% Probability of Exceedance (5 th Percentile)

4	2	1	0	0
mm				

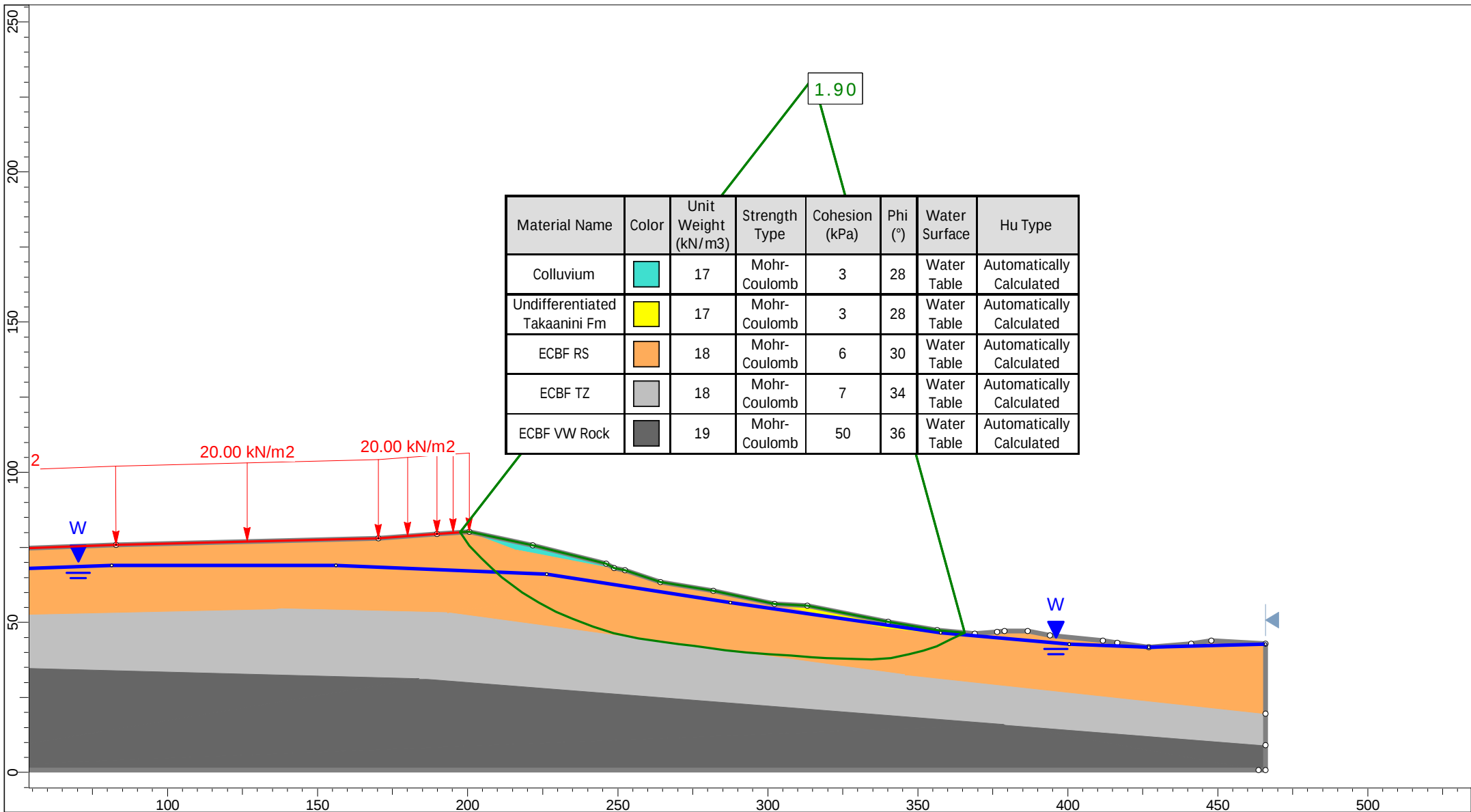


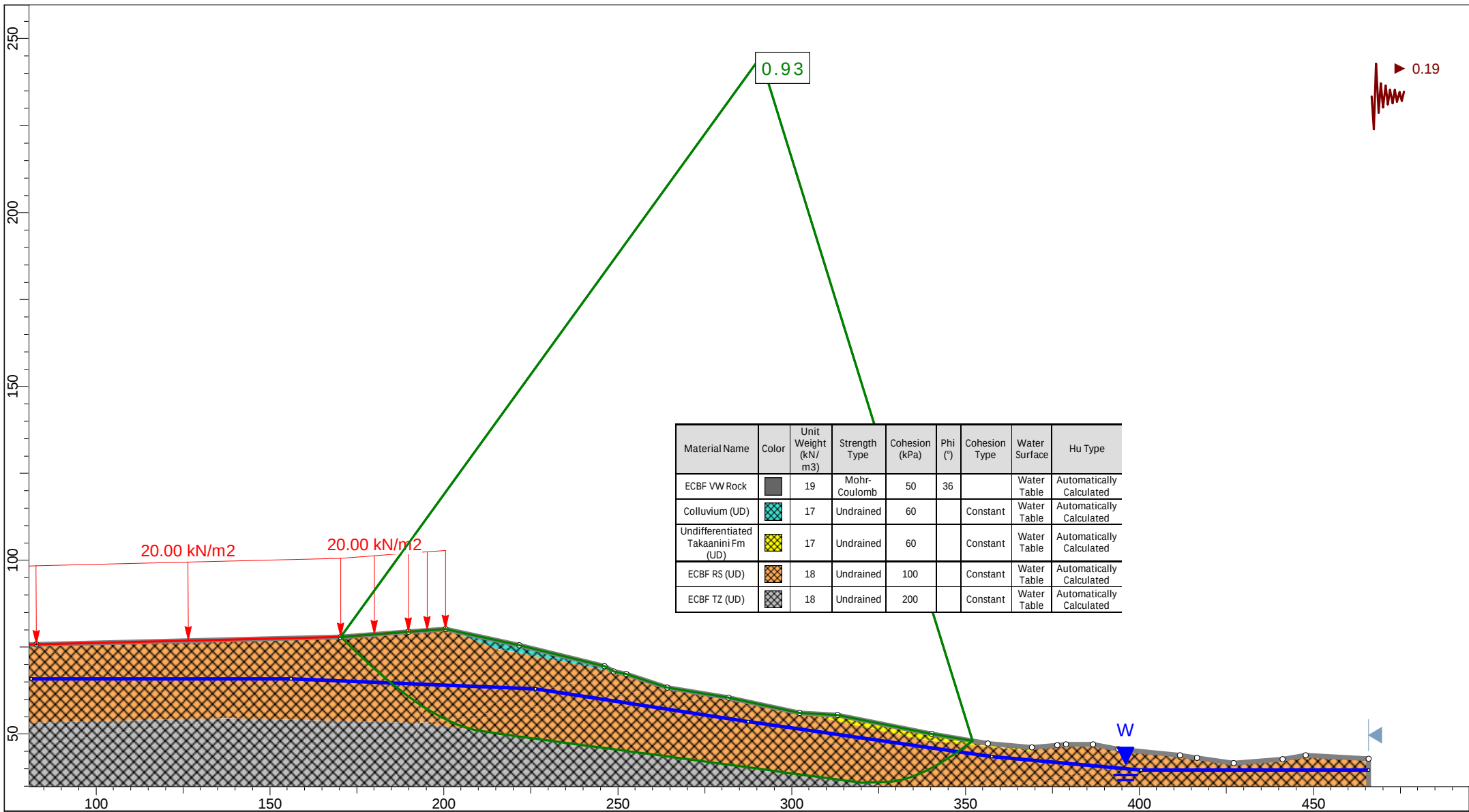
SLIDEINTERPRET 9.031

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Client:	Avant	Date:	22/03/2025
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		Revision:	
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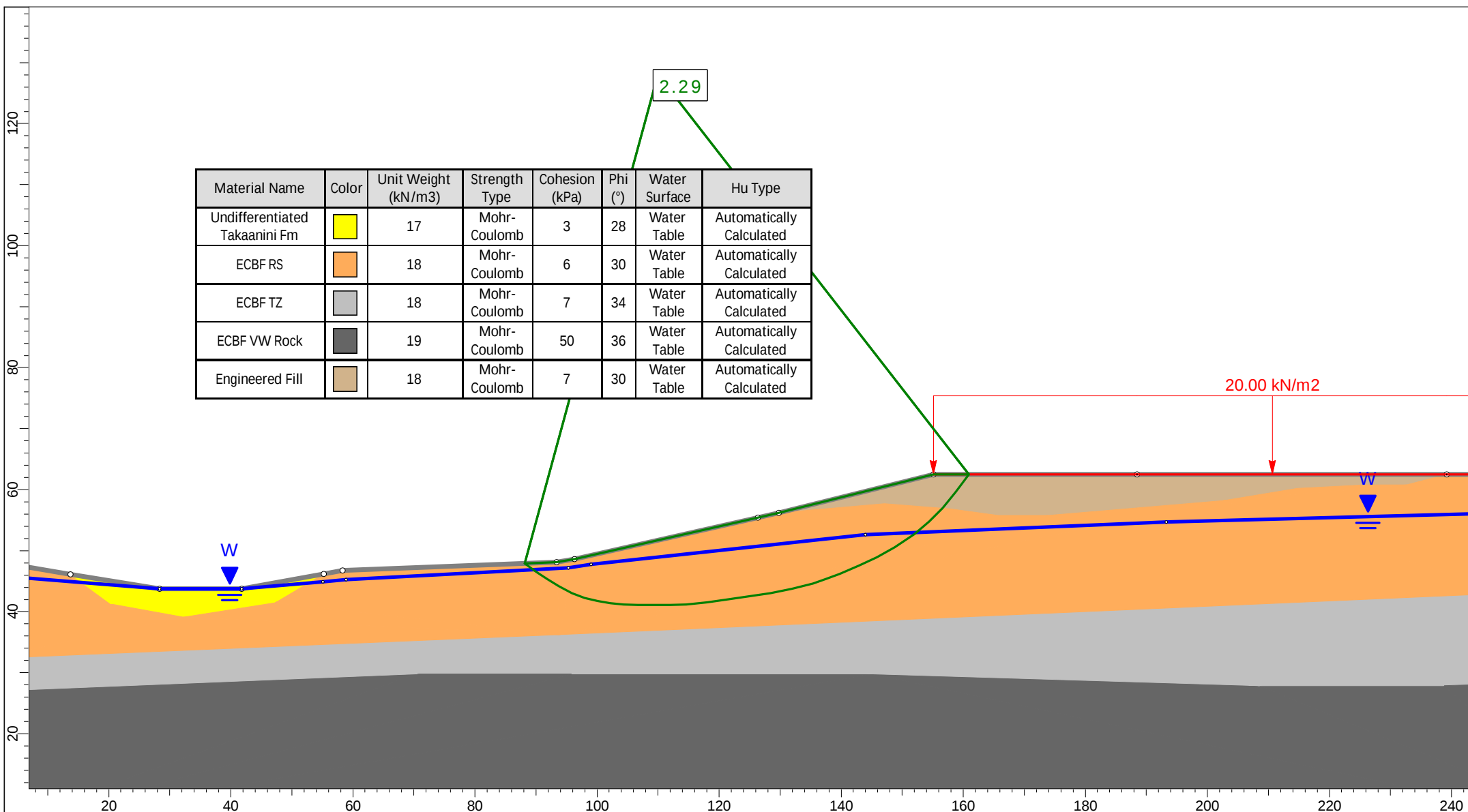


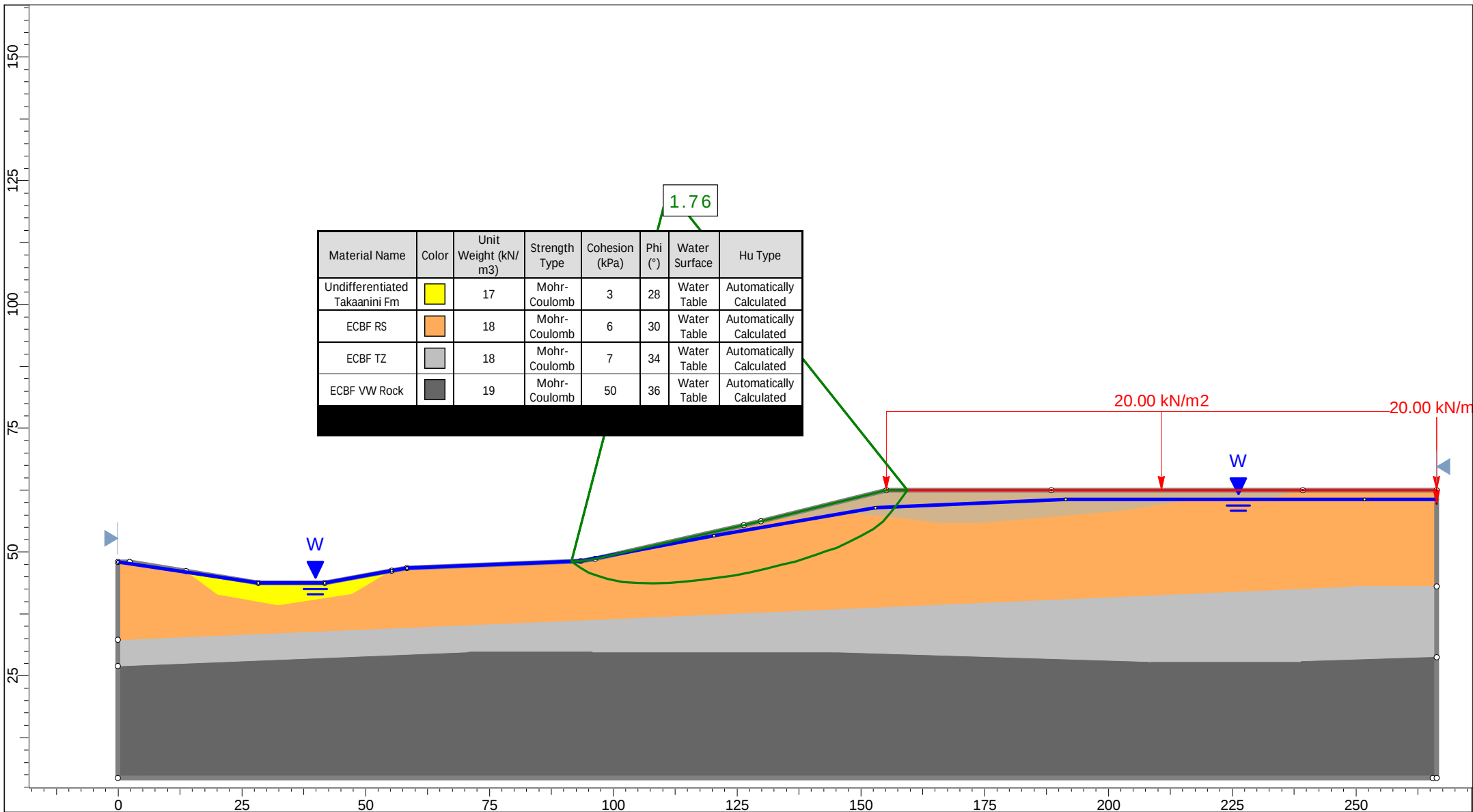
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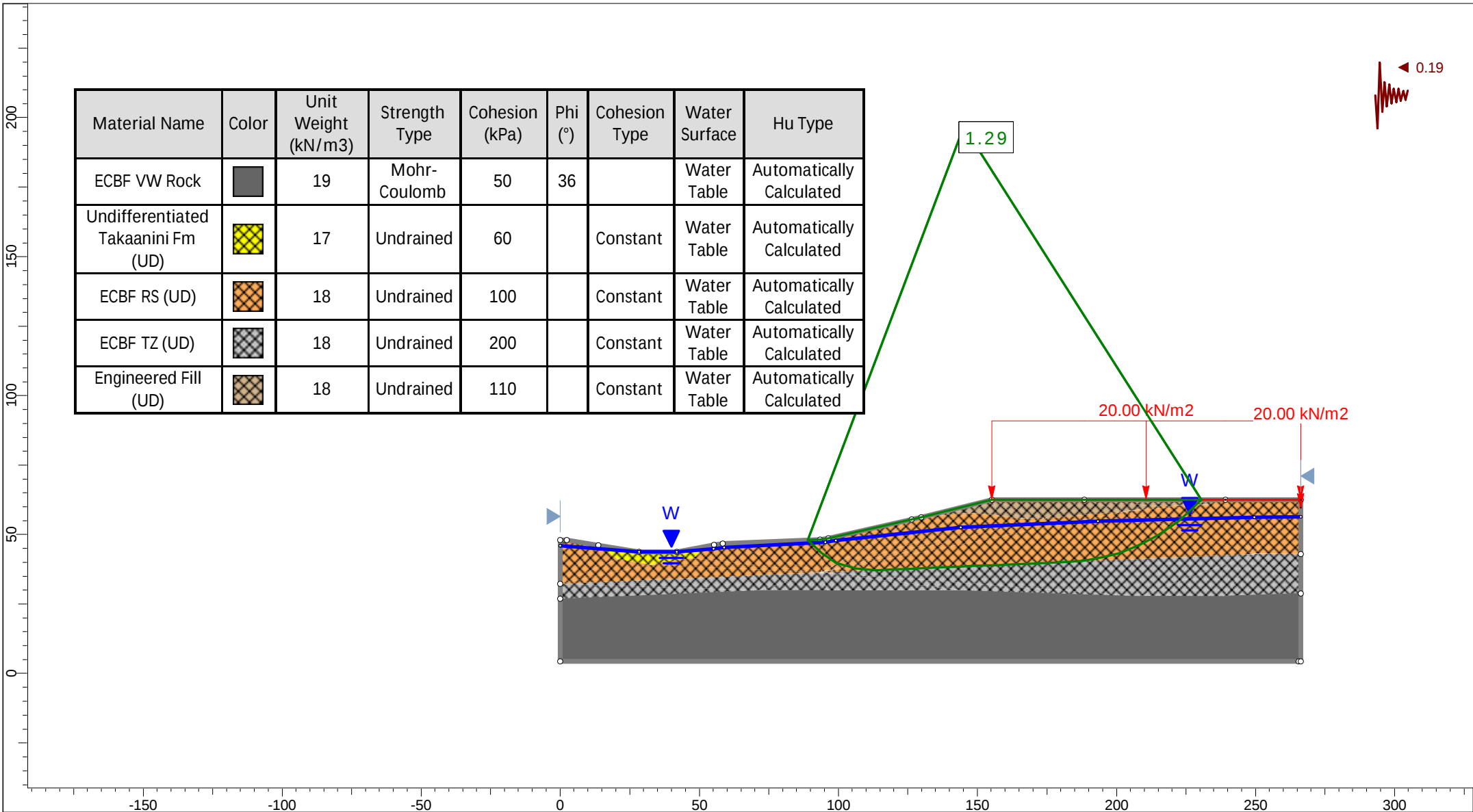




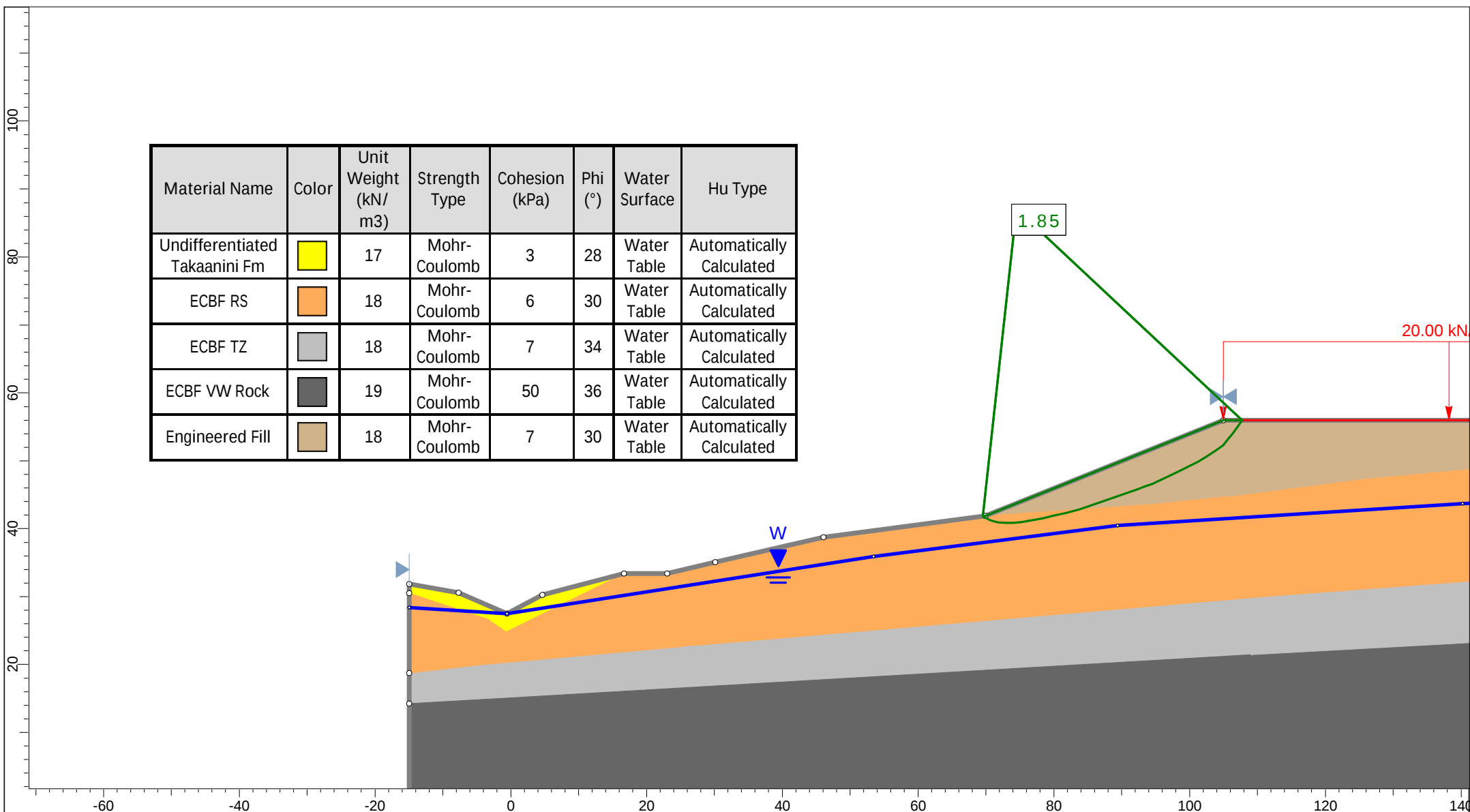
Material Name	Color	Unit Weight (kN/m3)	Strength Type	Cohesion (kPa)	Phi (°)	Water Surface	Hu Type
Undifferentiated Takaanini Fm		17	Mohr-Coulomb	3	28	Water Table	Automatically Calculated
ECBF RS		18	Mohr-Coulomb	6	30	Water Table	Automatically Calculated
ECBF TZ		18	Mohr-Coulomb	7	34	Water Table	Automatically Calculated
ECBF VW Rock		19	Mohr-Coulomb	50	36	Water Table	Automatically Calculated
Engineered Fill		18	Mohr-Coulomb	7	30	Water Table	Automatically Calculated



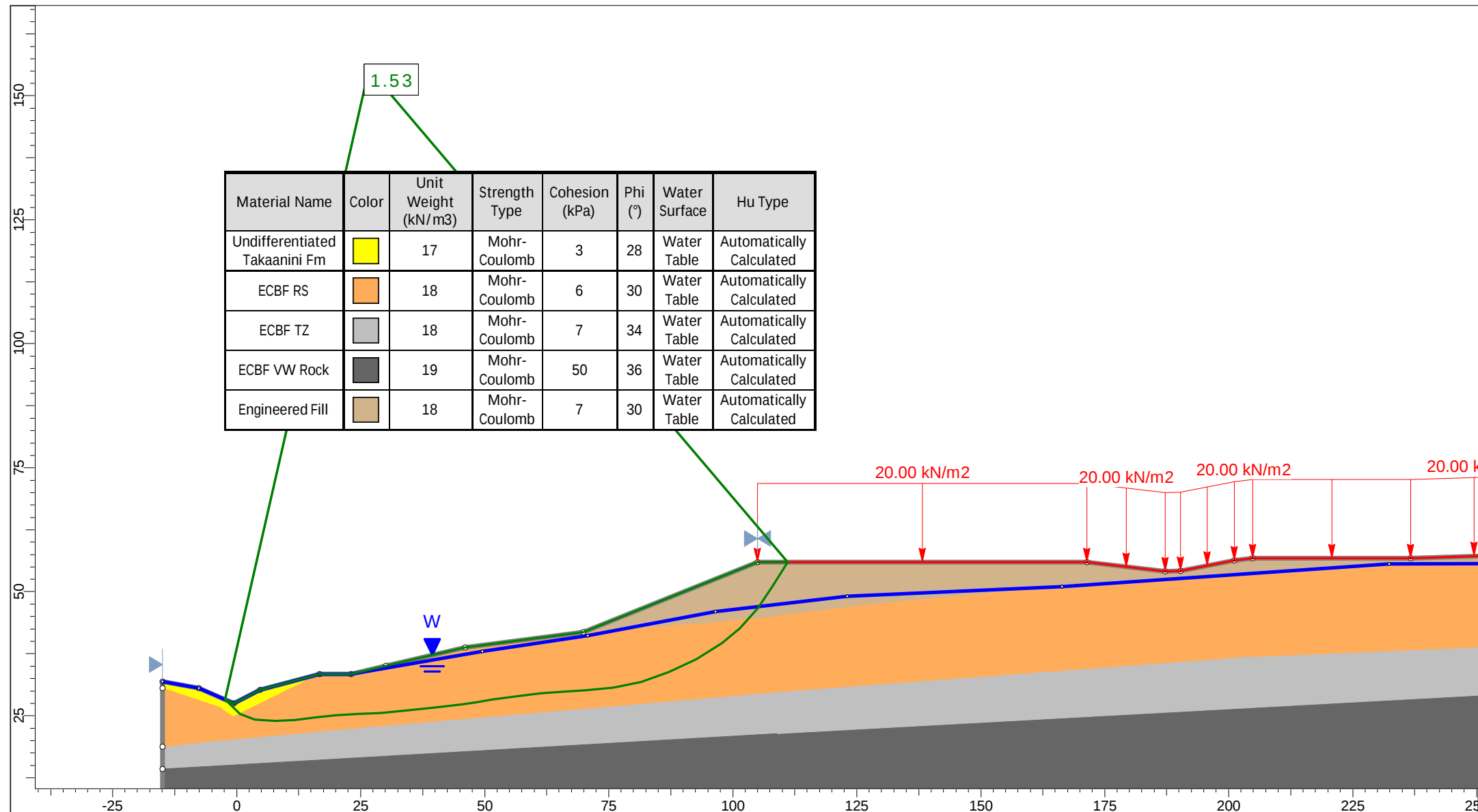


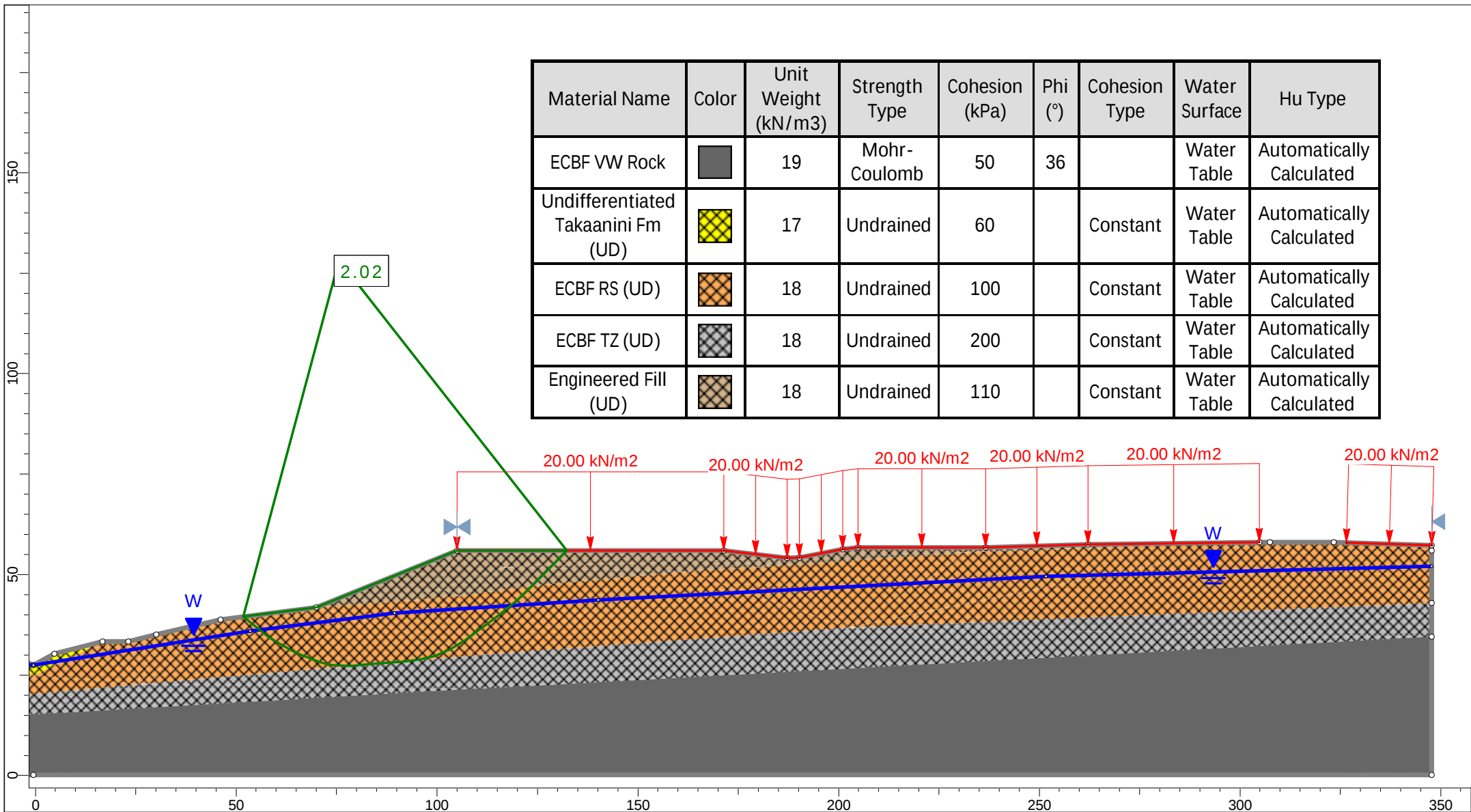


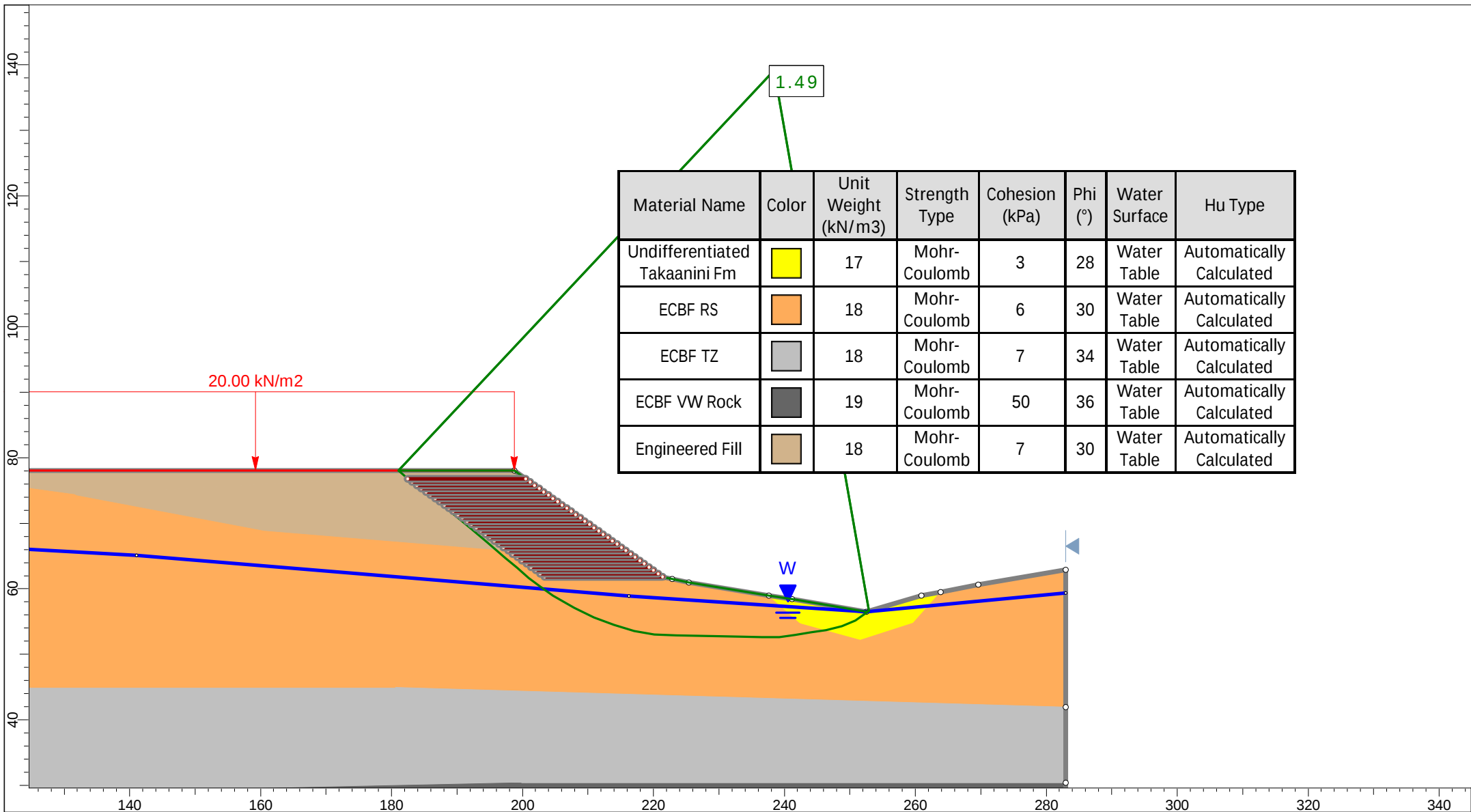
Material Name	Color	Unit Weight (kN/m ³)	Strength Type	Cohesion (kPa)	Phi (°)	Water Surface	Hu Type
Undifferentiated Takaanini Fm		17	Mohr-Coulomb	3	28	Water Table	Automatically Calculated
ECBF RS		18	Mohr-Coulomb	6	30	Water Table	Automatically Calculated
ECBF TZ		18	Mohr-Coulomb	7	34	Water Table	Automatically Calculated
ECBF VW Rock		19	Mohr-Coulomb	50	36	Water Table	Automatically Calculated
Engineered Fill		18	Mohr-Coulomb	7	30	Water Table	Automatically Calculated



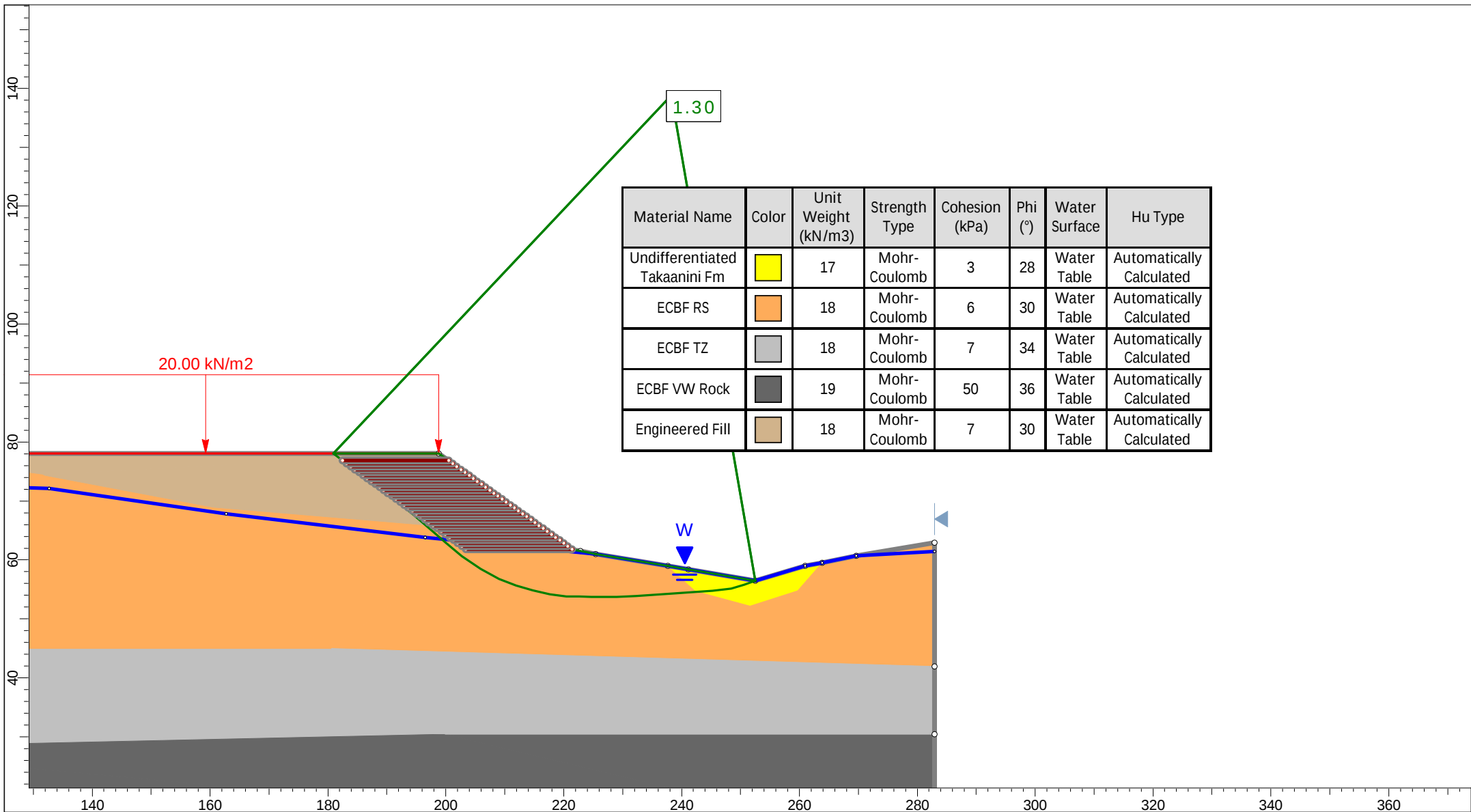
Analysis:			Section 9 - Static					
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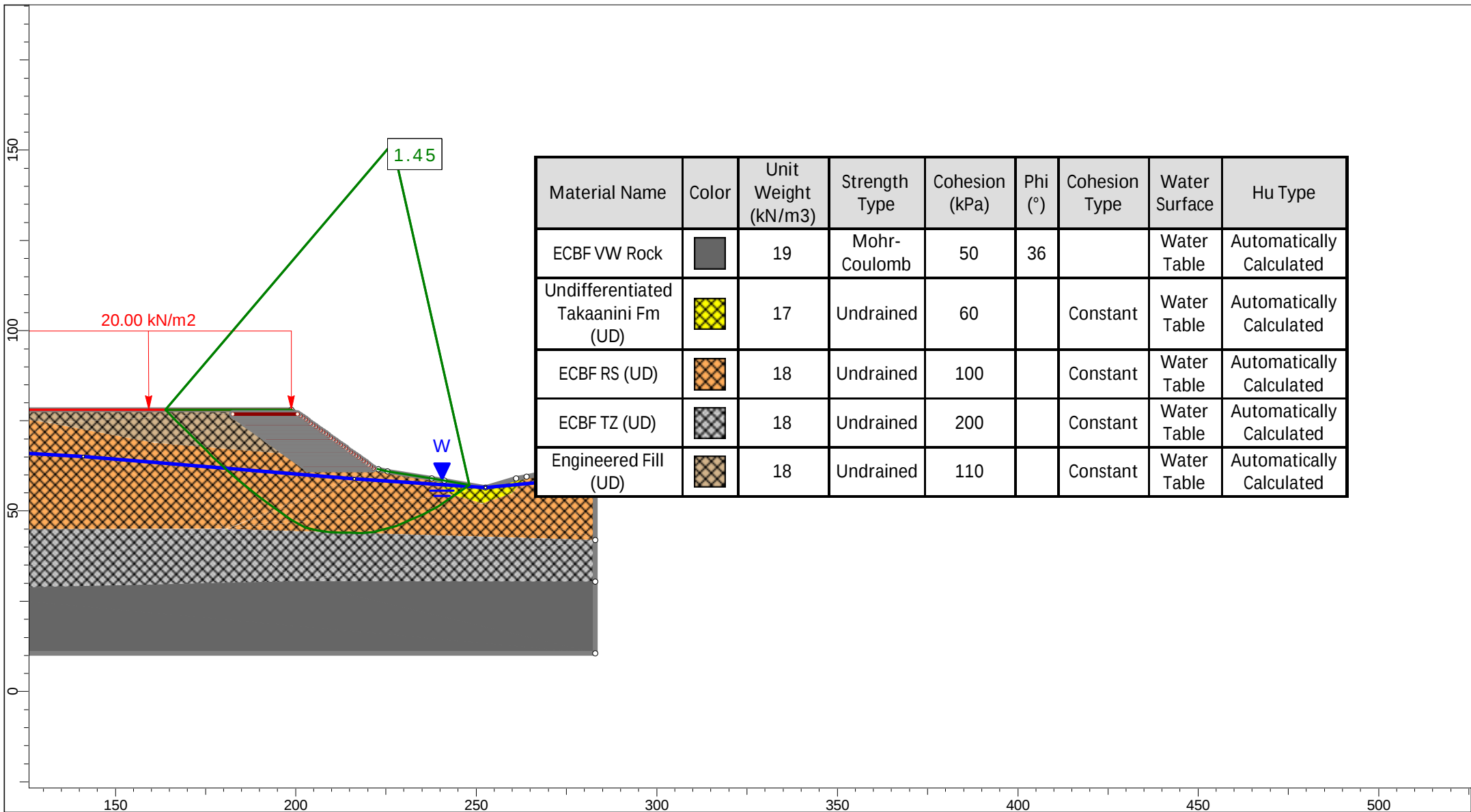






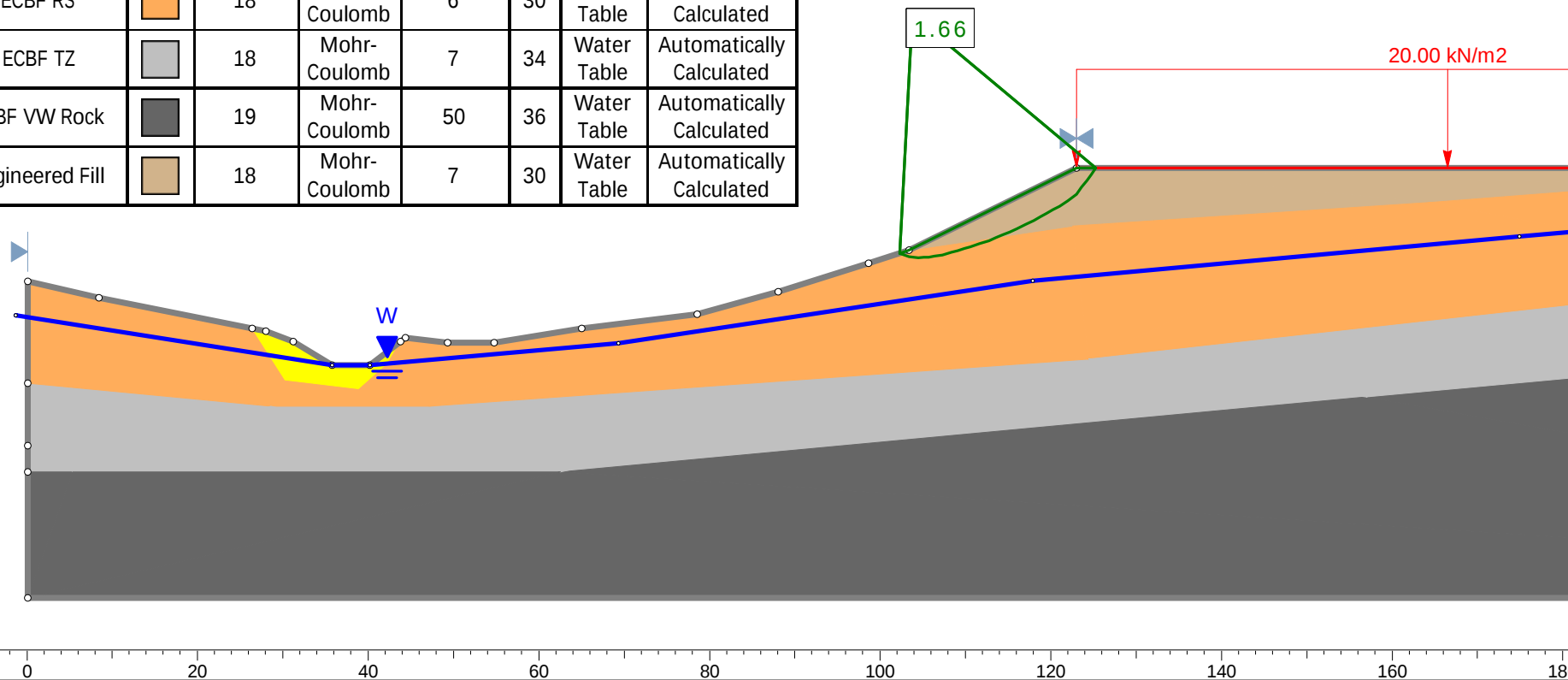
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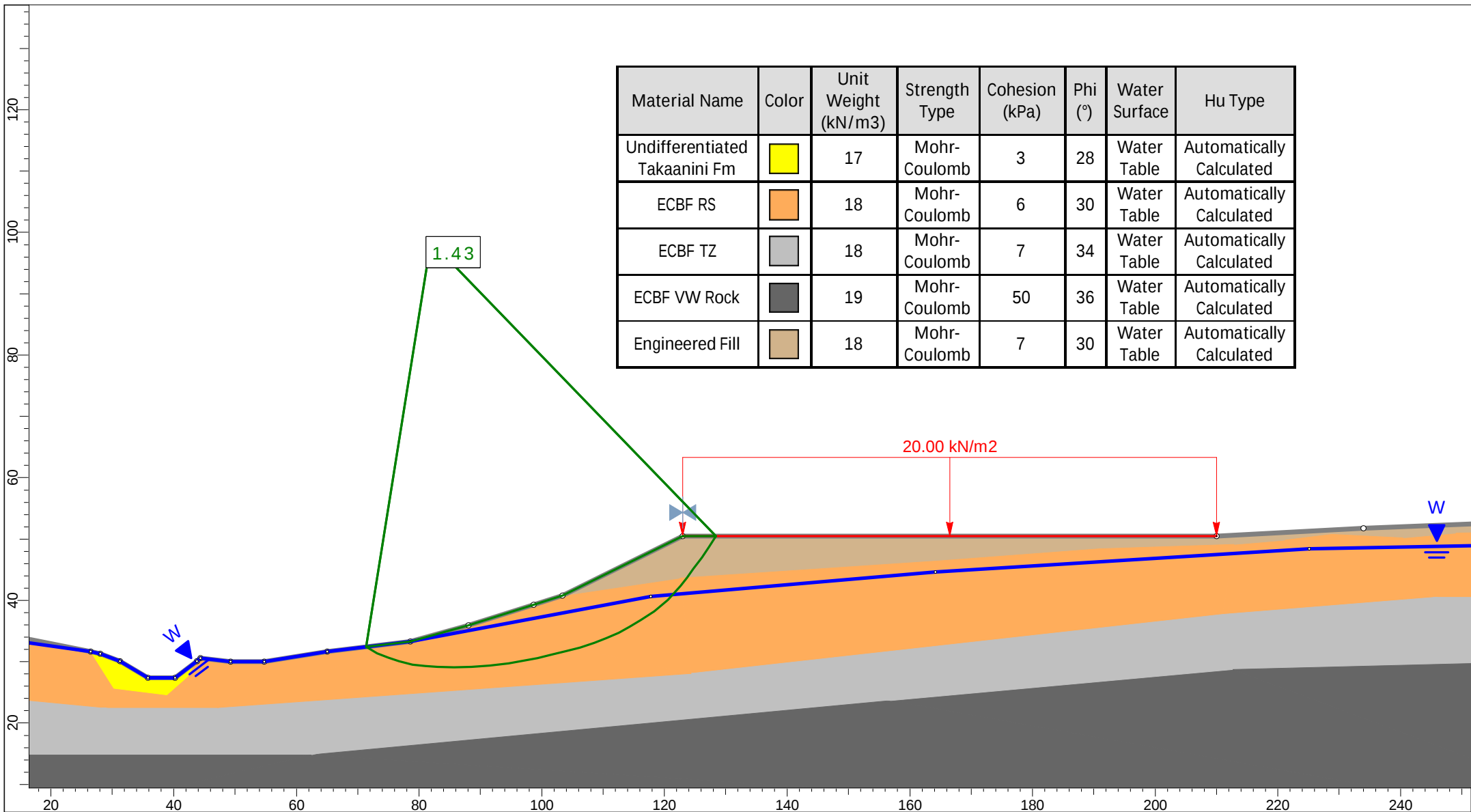




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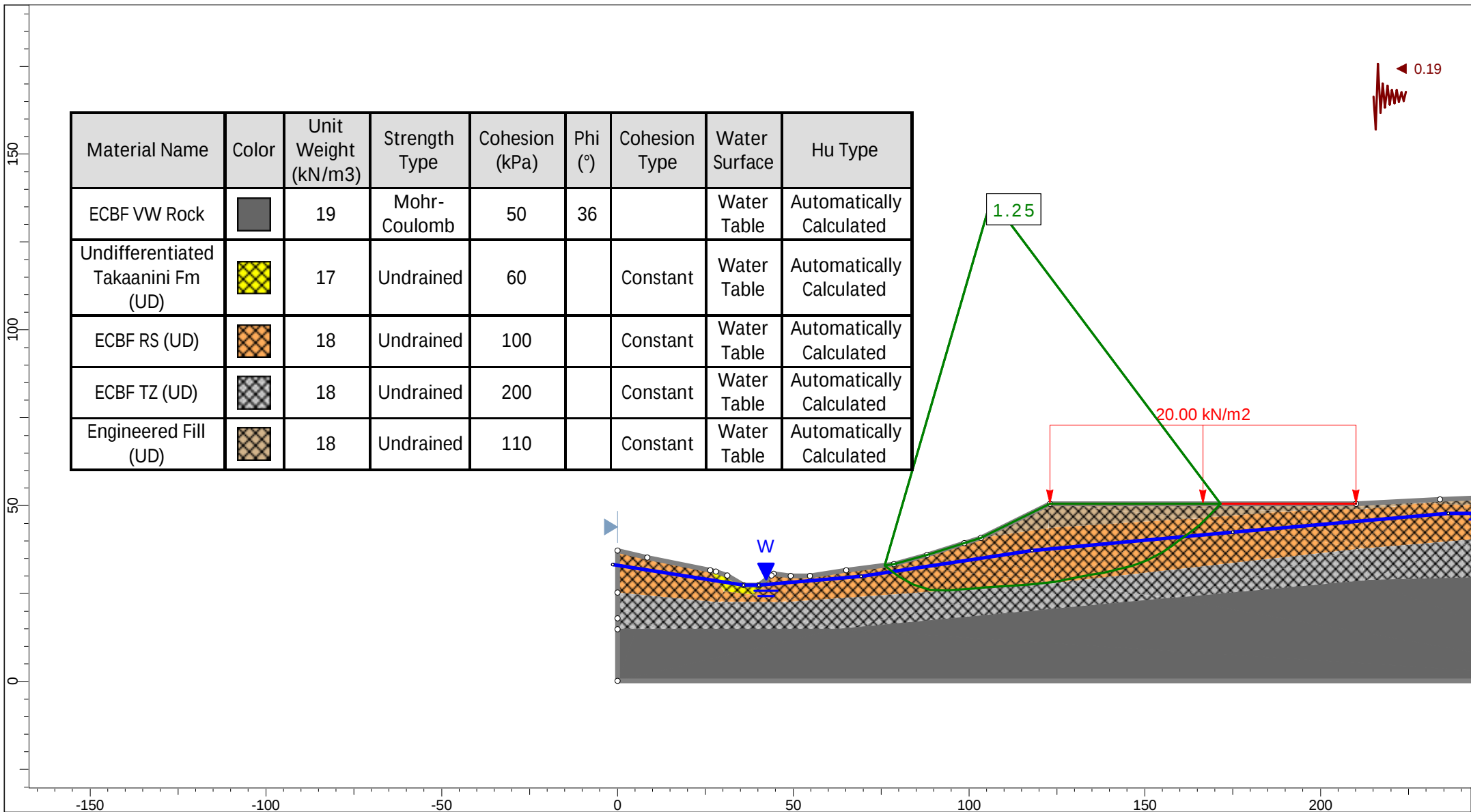
Material Name	Color	Unit Weight (kN/m3)	Strength Type	Cohesion (kPa)	Phi (°)	Water Surface	Hu Type
Undifferentiated Takaanini Fm		17	Mohr-Coulomb	3	28	Water Table	Automatically Calculated
ECBF RS		18	Mohr-Coulomb	6	30	Water Table	Automatically Calculated
ECBF TZ		18	Mohr-Coulomb	7	34	Water Table	Automatically Calculated
ECBF VW Rock		19	Mohr-Coulomb	50	36	Water Table	Automatically Calculated
Engineered Fill		18	Mohr-Coulomb	7	30	Water Table	Automatically Calculated

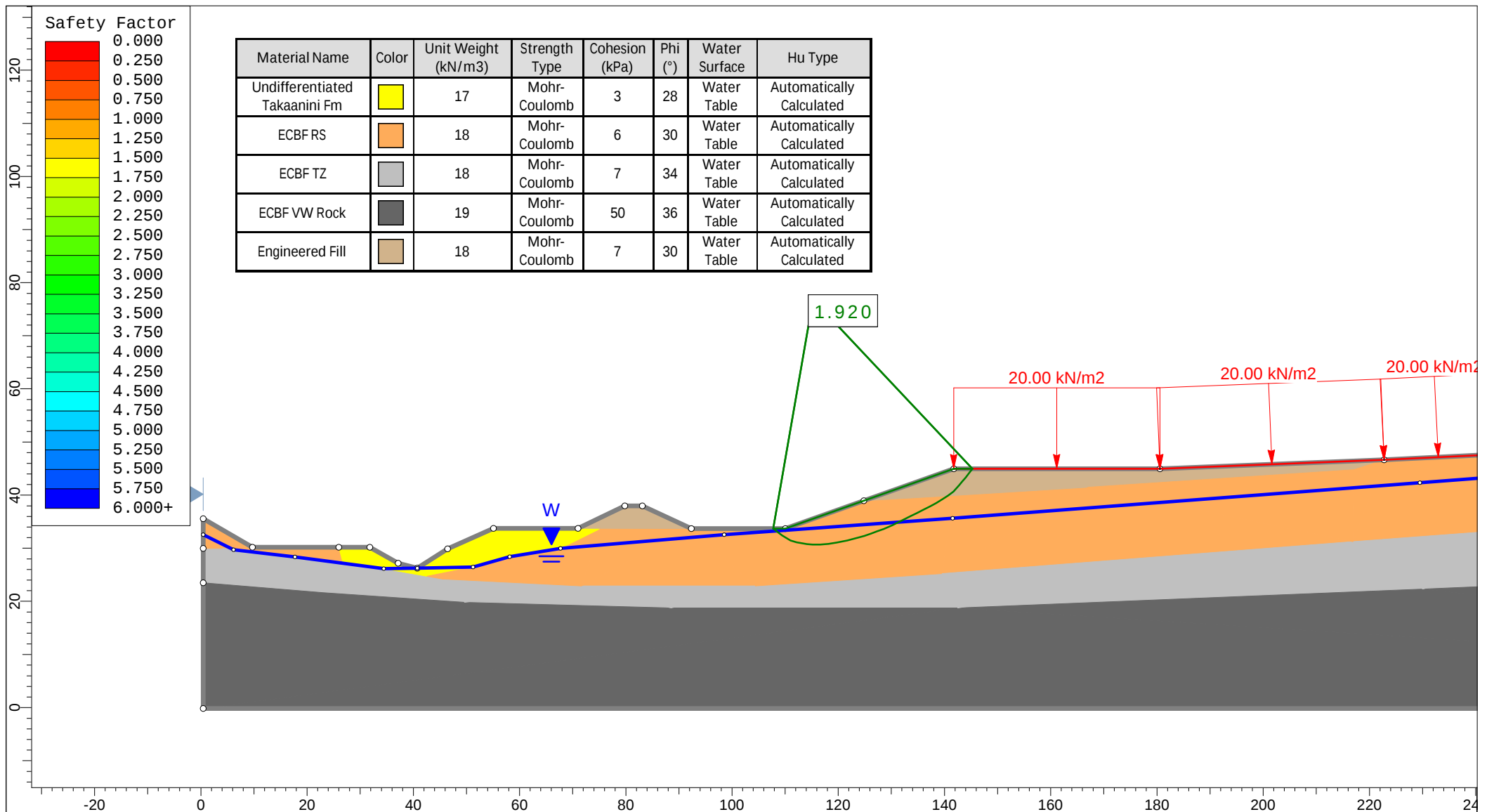




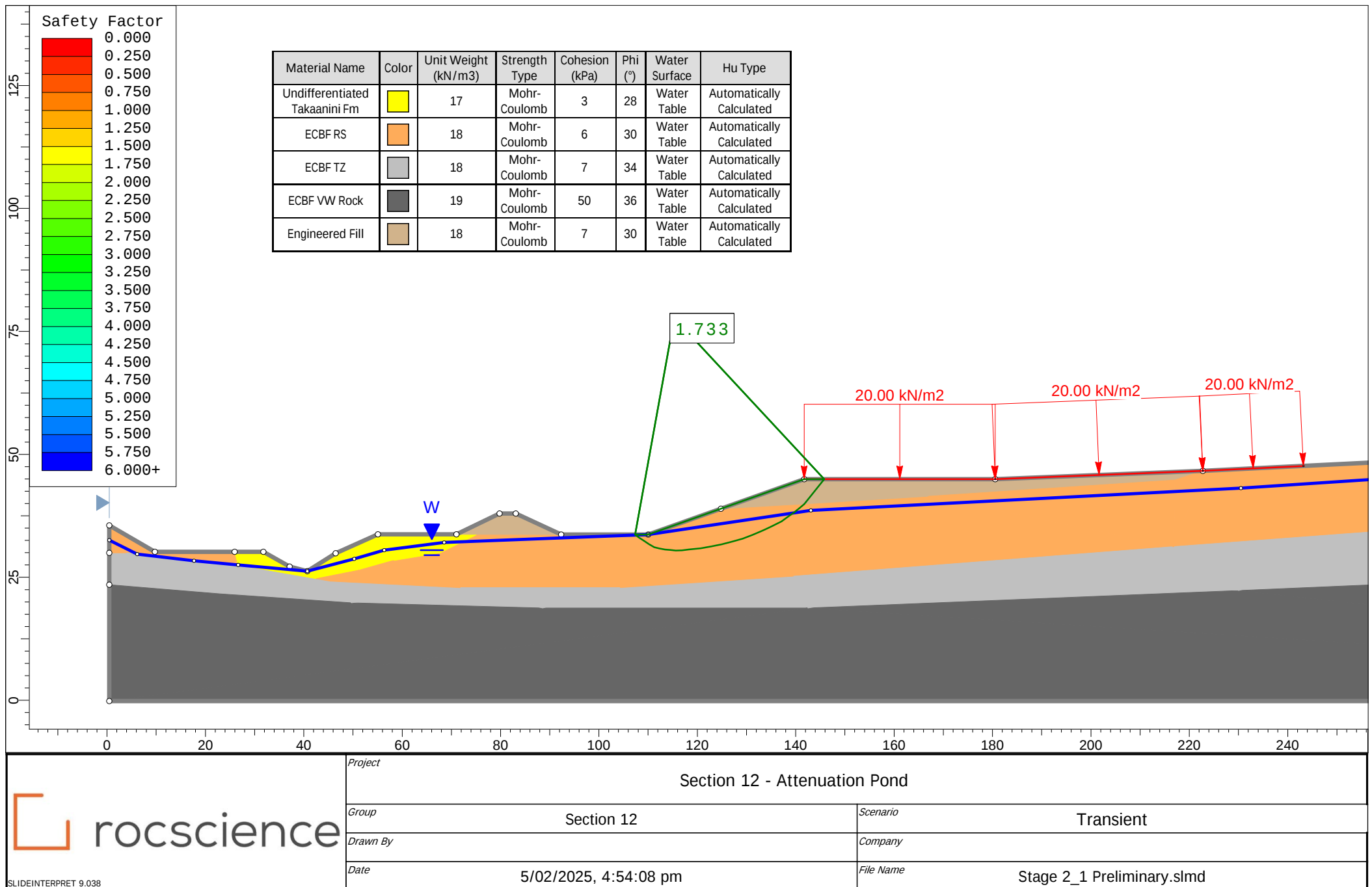
Material Name	Color	Unit Weight (kN/m ³)	Strength Type	Cohesion (kPa)	Phi (°)	Water Surface	Hu Type
Undifferentiated Takaanini Fm		17	Mohr-Coulomb	3	28	Water Table	Automatically Calculated
ECBF RS		18	Mohr-Coulomb	6	30	Water Table	Automatically Calculated
ECBF TZ		18	Mohr-Coulomb	7	34	Water Table	Automatically Calculated
ECBF VW Rock		19	Mohr-Coulomb	50	36	Water Table	Automatically Calculated
Engineered Fill		18	Mohr-Coulomb	7	30	Water Table	Automatically Calculated

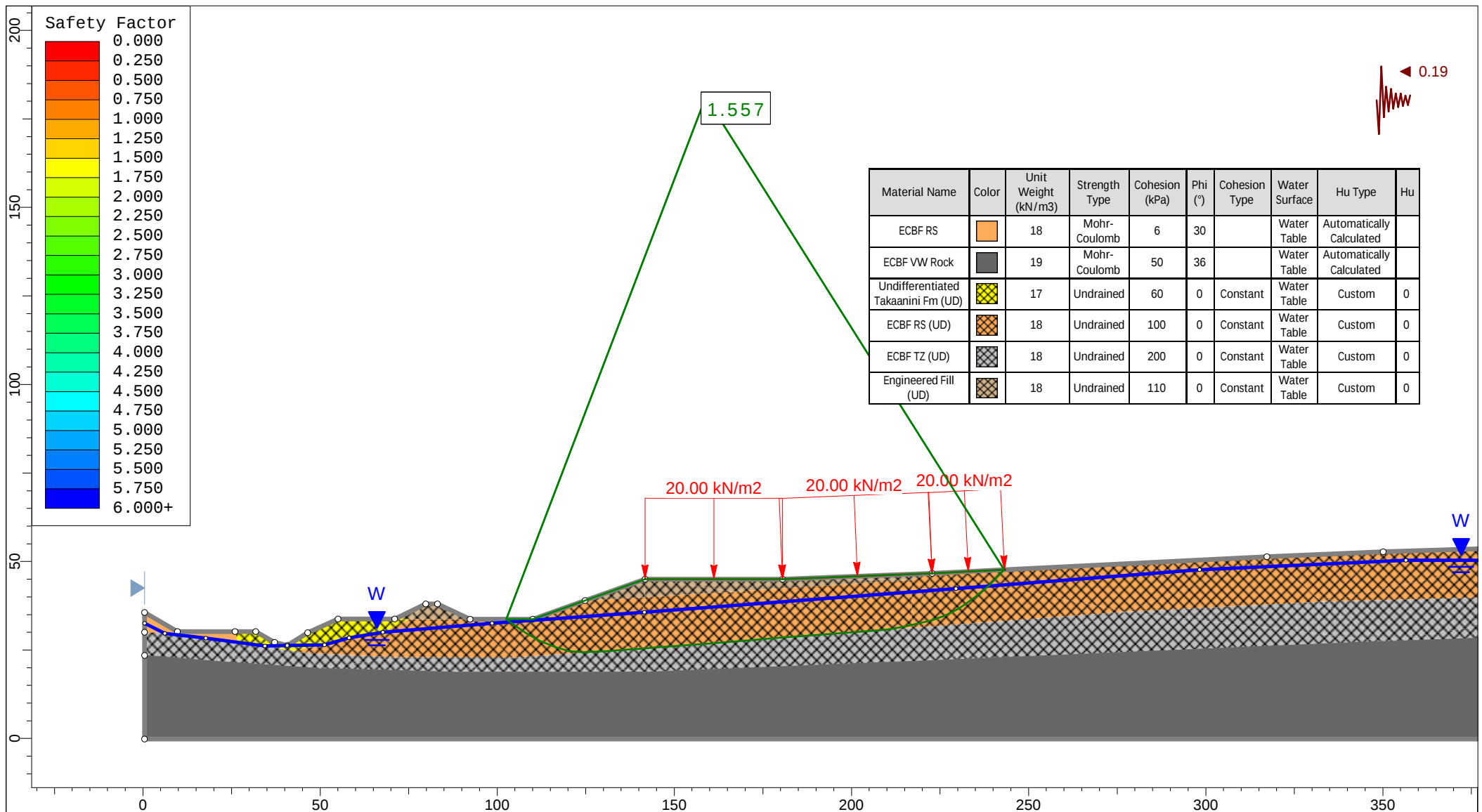
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Project:	Riverhead Development Forest		Analysis By:	JCh	Reviewed by: PF
Client:	Avant		Date:	22/03/2025	Revision:
Reference:	20190.000.001		Scale:	1:842	Page: 8 of 9



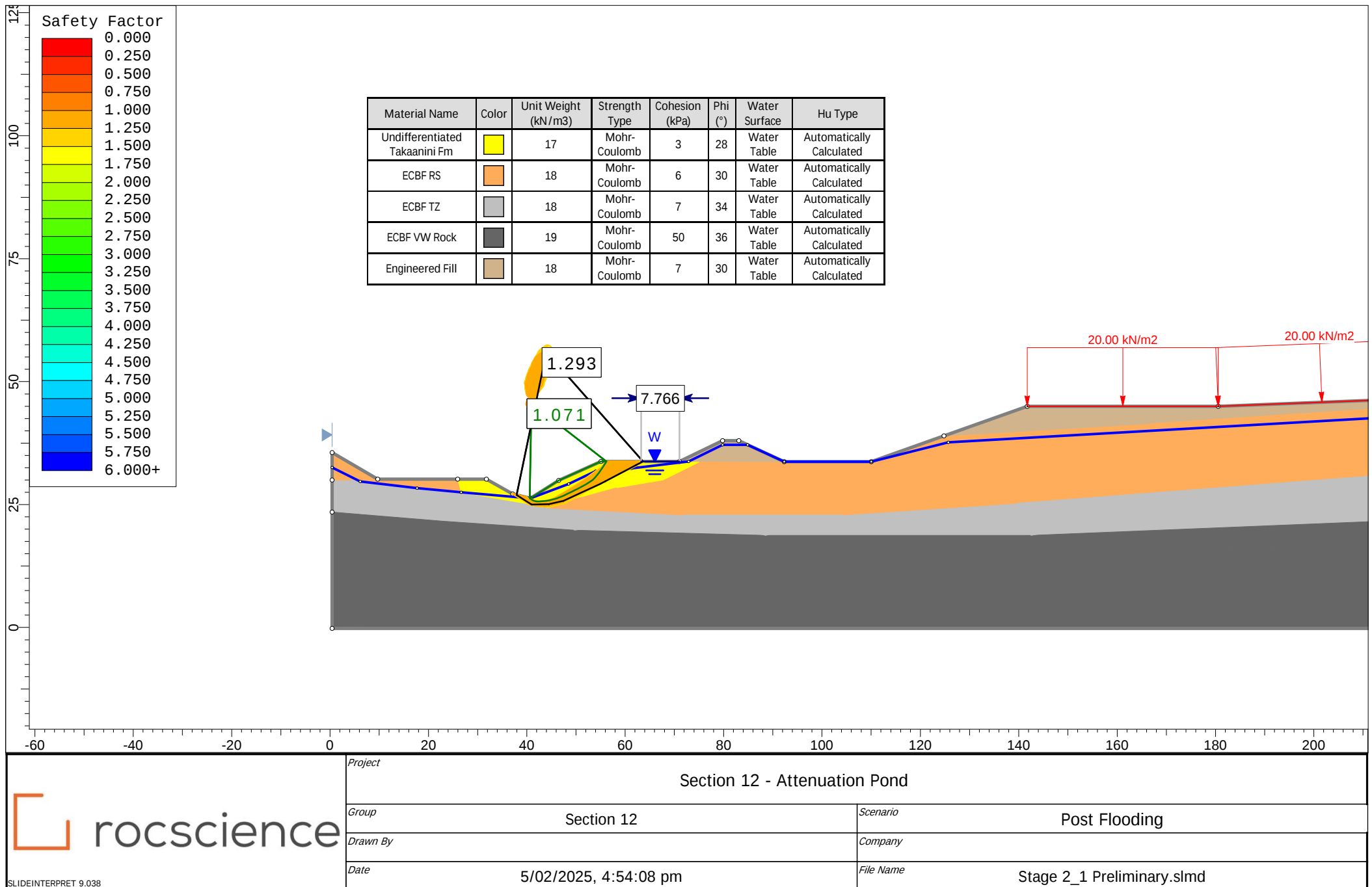


Project		Section 12 - Attenuation Pond	
Group	Section 12	Scenario	Static
Drawn By		Company	
Date	5/02/2025, 4:54:08 pm	File Name	Stage 2_1 Preliminary.slmd





Project		Section 12 - Attenuation Pond	
Group	Section 12	Scenario	Seismic
Drawn By		Company	
Date	5/02/2025, 4:54:08 pm	File Name	Stage 2_1 Preliminary.slmd



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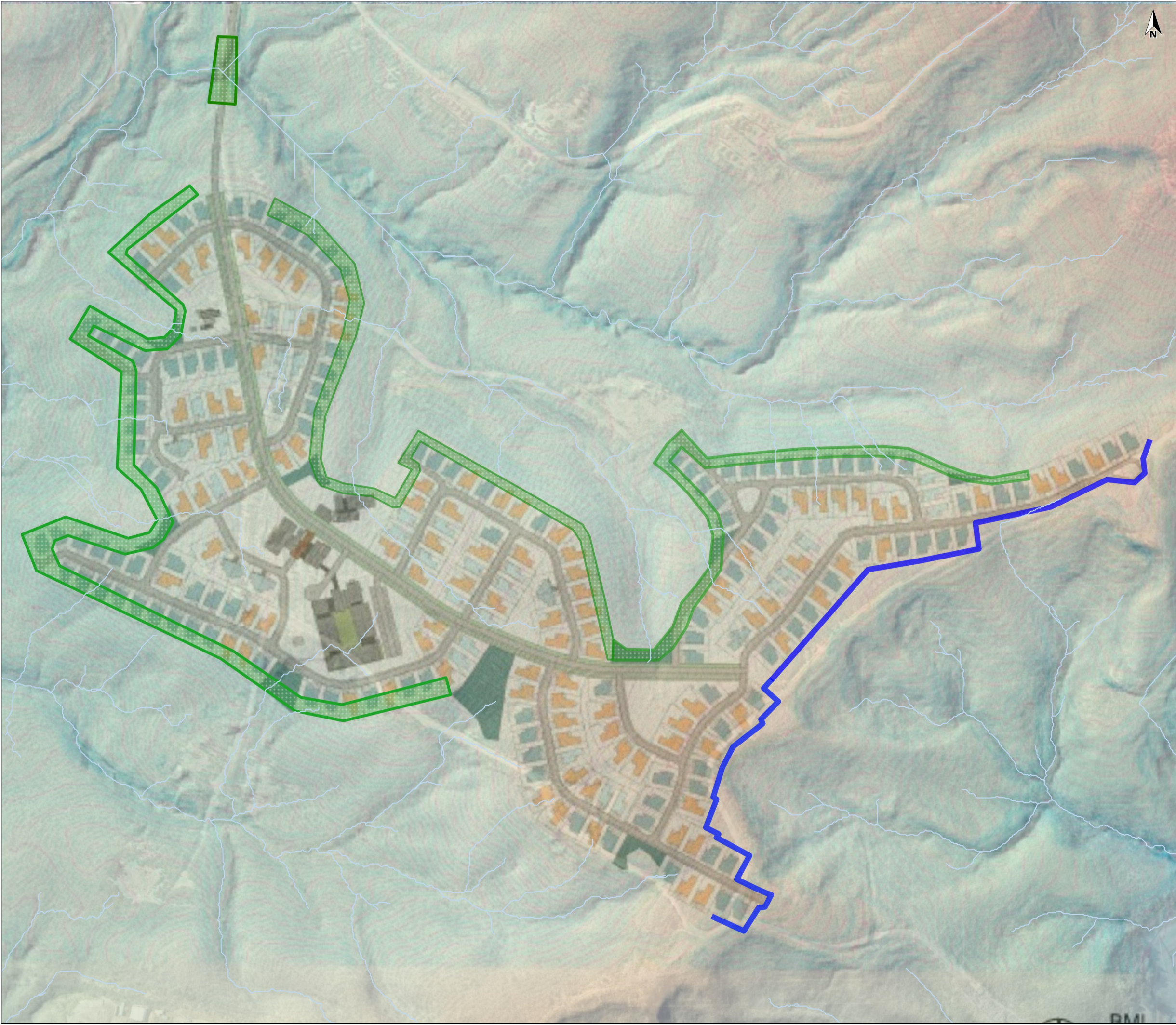
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APPENDIX 10: Slope Stabilising Measures



Legend

- Overland_Flow_Paths
- Overland Flow Paths
- Proposed MSE wall extent
- Proposed MSE wall extent
- Proposed MSE wall extent
- Proposed MSE wall extent
- Indicative In-ground Palisade Wall for Slope Regression
- Indicative In-ground Palisade Wall for Slope Regression
- Architectural Masterplan

0 50 m 100 m
© Nearmap, Auckland Council

ENGEO

Produced by **Datanest.earth**

Title: Proposed Slope Stabilising Measures

Client: Avant Group Ltd		Size: A3
Project: Stage 2 - Forestry Road, Riverhead	Drawn: RB	Figure No.: 6
Date: 22-03-2025	Checked: PF	
Proj No: 20190.000.003	Scale: 1:3400	Version: Final

APPENDIX 11:

Auckland Unitary Plans E7 Standards Assessment

Table A1: E7.6.1.6 Dewatering or Groundwater Level Control Assessment Summary

E7.6.1.6. Dewatering or groundwater level control associated with a groundwater diversion permitted under Standard E7.6.1.6		
Criteria	Discussion	Assessment Findings
(1) The water take must not be geothermal water.	Under D1. High-use Aquifer Management Areas Overlay (Auckland Unitary Plan Operative in part), the site is not located in an area marked as a geothermal aquifer.	Criteria Met ✓
(2) The water take must not be for a period of more than ten days where it occurs in peat soils, or 30 days in other types of soil or rock.	Proposed excavations of up to 10.0 m (~RL 78.0 m) are likely to extend below groundwater level. Piezometer within MBH06 nearby encountered ground water within 4.2 m bgl. Thus, we consider that groundwater will be taken for a period of more than 30 days.	Criteria Not Met ✗
(3) The water take must only occur during construction.	Proposed excavations of up to 10.0 m (~RL 78.0 m) are likely to extend below groundwater level form the proposed subgrade levels.	Criteria Not Met ✗

Table A2: E7.6.1.10. Diversion of Groundwater Assessment Summary

E7.6.1.10. Diversion of groundwater caused by any excavation (including trench) or tunnel		
Criteria	Discussion	Assessment Findings
(1) All of the following activities are exempt from the Standards E7.6.1.10 (2) – (6): (a) Pipes cables or tunnels including associated structures which are drilled or thrust and are less than 1.2 m in external diameter. (b) Pipes including associated structures up to 1.5 m in external diameter where a closed faced or earth pressure balanced machine is used. (c) Piles up to 1.5 m in external diameter are exempt from these standards. (d) Diversions for no longer than ten days. (e) Diversions for network utilities and road network linear trenching activities that are progressively opened, closed and stabilised where the part of the trench that is open at any given time is no longer than ten days.	Not Applicable.	Not Applicable – Proposed development does not include tunnelling, pipes / trenching where the groundwater is intersected or diverted for a period of time.
(2) Any excavation that extends below natural groundwater level, must not exceed: a) 1 ha in total area, and b) 6 m depth below the natural ground level.	Excavations will not be greater than 1 ha in total area but will extend 6 m below natural ground level.	Criteria Not Met 
(3) The natural groundwater level must not be reduced by more than 2 m on the boundary of any adjoining site.	Proposed excavations are not expected to reduce groundwater level by more than 2 m on the boundary of adjoining sites.	Criteria Met 

E7.6.1.10. Diversion of groundwater caused by any excavation (including trench) or tunnel

(4) Any structure, excluding sheet piling, that remains in place for more than 30 days, that physically impedes the flow of groundwater through the site must not: (a) Impede the flow of groundwater over a length of more than 20 m, and (b) Extend more than 2 m below the natural groundwater level.	No impedance of groundwater is proposed.	Criteria Met ✓
(5) The distance to any existing building or structure (excluding timber fences and small structures on the boundary) on an adjoining site from the edge of any: (a) Trench or open excavation that extends below natural groundwater level must be at least equal to the depth of the excavation. (b) Tunnel or pipe with an external diameter of 0.2 - 1.5 m that extends below natural groundwater level must be 2 m or greater. (c) A tunnel or pipe with an external diameter of up to 0.2 m that extends below natural groundwater level has no separation requirement.	Proposed excavations are not proximal to existing structures beyond the boundary.	Criteria Met ✓
(6) The distance from the edge of any excavation that extends below natural groundwater level, must not be less than: (a) 50 m from the Wetland Management Areas Overlay. (b) 10 m from a scheduled Historic Heritage Overlay. (c) 10 m from a lawful groundwater take.	(a) Under D8 Wetland Management Areas Overlay, Auckland Unitary Plan Operative in part, there are no Wetland Management Areas within 50 m of the site. (b) Under D17. Historic Heritage Overlay, Auckland Unitary Plan Operative in part, there are no scheduled Historic features within 10 m of the site. (c) There are no known groundwater takes within 10 m of the site.	Criteria Met ✓