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EGL Ref: 10092

OCEANA GOLD (NEW ZEALAND) LIMITED
MACRAES OPERATION
MACRAES PHASE 4
MACRAES ROAD REALIGNMENT STAGE 2
TECHNICAL REPORT

Prepared for: 21 August 2026

Oceana Gold (New Zealand) Limited

DOCUMENT CONTROL

Document information

Title	Oceana Gold (New Zealand) Ltd, Macraes Operation, Macraes Phase 4, Macraes Road Realignment Stage 2, Technical Report
Revision	0
Date	21/08/2026
EGL Reference	10092
Client Reference	-
File Name	10092 Macraes Road Technical Report Rev 0 20260821.docx

Document roles and approvals

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EGL Approval	E. Torvelainen	EGL Director	[redacted]	0	21/08/2026

Final copy issue requires signatures.

Document revision and issue record

Revision.	Date	Revision Description	Issue by
0	21/08/2026	Final Issue	E. Mandru

Draft revisions are given alphabetic characters. Final copy issue and subsequent revision are given numeric characters.

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1 INTRODUCTION

1.1 Project Background

Oceana Gold (New Zealand) Limited (OGNZL) is proposing an extension to their Macraes Operation. The Macraes Phase 4 (MP4) project seeks to extend the consented mine life and is being progressed under the Fast Track Approvals Act 2024 (FTAA).

MP4 includes open pit extensions, waste disposal as backfills, waste rock stacks external to the pits, the continuation of tailings disposal and realignment of Macraes Road in two stages.

OGNZL proposes to expand the Innes Mills Pit (Stage 13) which cuts through the existing Macraes Road and the proposed Stage 1 Macraes Road realignment. This necessitates the Macraes Road Stage 2 realignment (the Road) which is proposed to traverse the top of Frasers Backfill Embankment (FRBF) which is yet to be completed to full height. The general alignment of the Road is presented in Figure 2-1 and Figure 2-2 MP4 Overview Plan. Macraes Road Alignment Stage 2 is shown in light purple.
below.

FRBF will be constructed as part of the Frasers Tailings Storage Facility (FTSF) Stage 3 development. FTSF is an in-pit tailings storage facility located within the mined-out Frasers Pit. Containment is provided by the Frasers Backfill Embankment (FRBF), a waste rock embankment constructed between the Frasers and Innes Mills pits.

FTSF Stage 3 includes raising the FRBF from its Stage 2 crest elevation of approximately 480 mRL to a final crest elevation at approximately 520 mRL. The proposed Road is expected to be constructed shortly after the FRBF reaches its final crest elevation.

1.2 Scope of this Report

EGL has been engaged by OGNZL to undertake a geotechnical assessment of the Road where it traverses the FRBF embankment. This report has been prepared to support the substantive application for approvals (including resource consents) for MP4 under the FTAA.

This report presents the assessment of geotechnical effects on the Road relating to the following:

- Static and seismic stability of the FRBF where it supports the proposed Road;
- Magnitude and distribution of settlement and deformation expected along the Road centreline following completion of the FRBF; and
- Potential differential settlement and seismic deformation on the performance of the Road.

This report also sets out the recommended geotechnical design, monitoring and maintenance measures to appropriately manage the assessed effects.

The geotechnical assessments are based on the preliminary designs for FTSF Stage 3 and the Road. The detailed road formation, transition treatments, settlement allowances, monitoring requirements and post-earthquake response procedures will be confirmed during detailed design.

This report is limited to the geotechnical effects arising from construction of the Road across the FRBF. Broader matters relating to the road alignment, pavement design, road drainage, traffic safety are addressed in McIlroy Consultancy Ltd's Road Design Report (Ref 6.). The wider design and assessment of FTSF Stage 3, including its proposed geometry, construction materials, groundwater conditions, seismic setting and dam-safety performance, are set out in the FTSF Stage 3 Technical Report (Ref 4.). This report should be read in conjunction with the reports listed above.

1.3 Site Grid

The Macraes Operation plan grids and references are based on Macraes Gold Project Grid (MGPG) which is rotated approximately 45 degrees anti-clockwise from true north.

2 PROPOSED MACRAES ROAD REALIGNMENT STAGE 2

The proposed Road will traverse the completed FRBF as indicated in Figure 2-1 below. The Road will generally follow the embankment crest, which has a proposed final elevation of 520 mRL. The road corridor is approximately 11 m wide (within a minimum ~20 m wide easement area) and is positioned towards the southern side of the FRBF crest which comprises Zone C embankment material.

A permanent stream diversion channel is proposed to be located directly adjacent to the southern extents of the Road and runs parallel to the embankment, conveying stormwater catchment flows to the North Branch Waikouaiti River (NBWR) for rainfall event up to 1:1000 AEP. For events larger than this, the channel is designed to convey additional flows across the FTSF capped surface without impacting the embankment or Macraes Road.

The final road geometry remains subject to detailed design. The finished road level will vary along the length of the alignment. In locations it is expected to be close to the grade of FBRF crest, slightly raised above the adjacent surface to allow suitable road drainage. In locations the road formation may be locally cut into the completed FRBF to form the subgrade or constructed above the crest using additional fill. The geotechnical assessment in this report allows for either arrangement.

The preliminary road design prepared by Fraser Hocks and McIlroy Consultancy Ltd indicates that the Stage 2 realignment will extend approximately 2.84 km between Route Position RP14.44 and RP17.28. The alignment crosses primarily existing in-situ ground for approximately the first 1.2 km before traversing the completed FRBF and returning to existing ground near RP16.90. The proposed road formation comprises two 3.5 m traffic lanes, with a 1.2 m sealed shoulder and 0.8 m unsealed shoulder on each side. The general proposed road alignment and associated design chainages are presented in Appendix D.

Some embankment fill will be required at the eastern end of the FRBF to raise the Road to the proposed crest level. At the western end, the Road will descend from the FRBF crest across additional fill that is expected to be integrated with the proposed Western Embankment of FTSF.

As the Road is expected to be constructed shortly after the FRBF reaches its final crest elevation, the Road will be subject to post construction settlement of the FRBF and

deformation under earthquake loading. The stability and settlement assessments presented in this report consider representative cross sections along the road alignment.

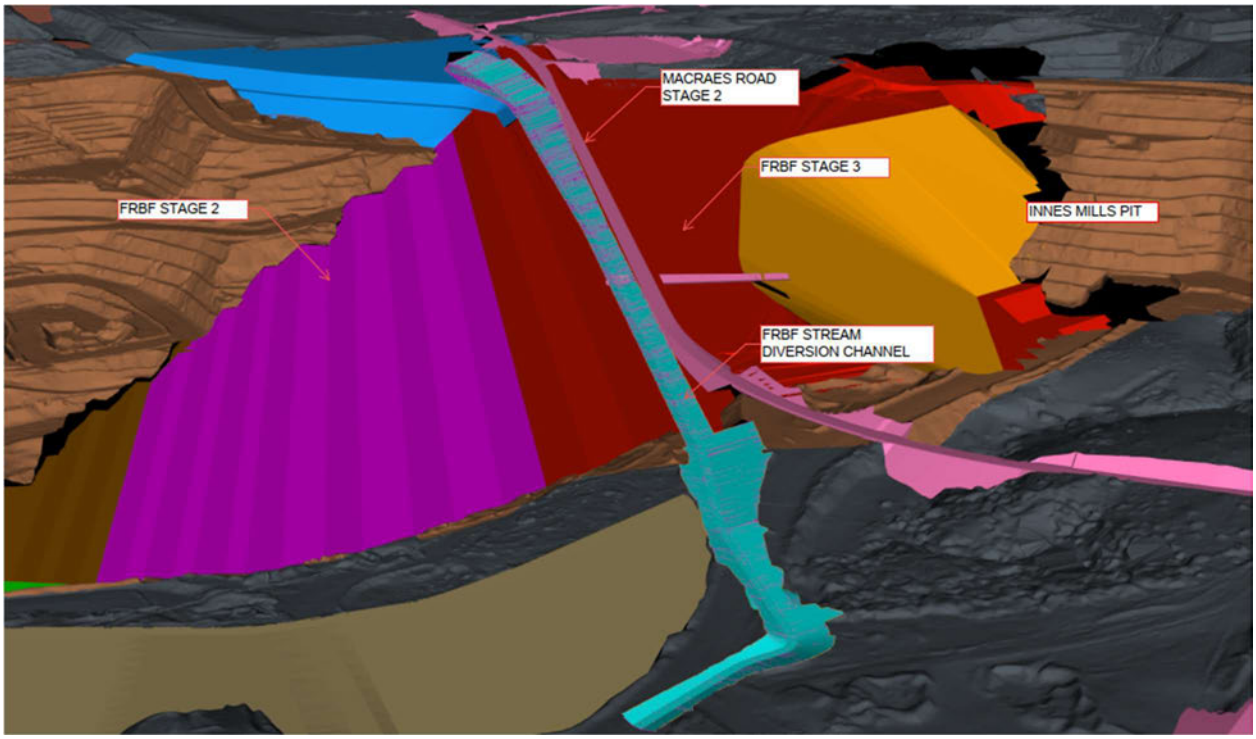

Figure 2-1 Macraes Road Alignment Stage 2 across FRBF looking north west.

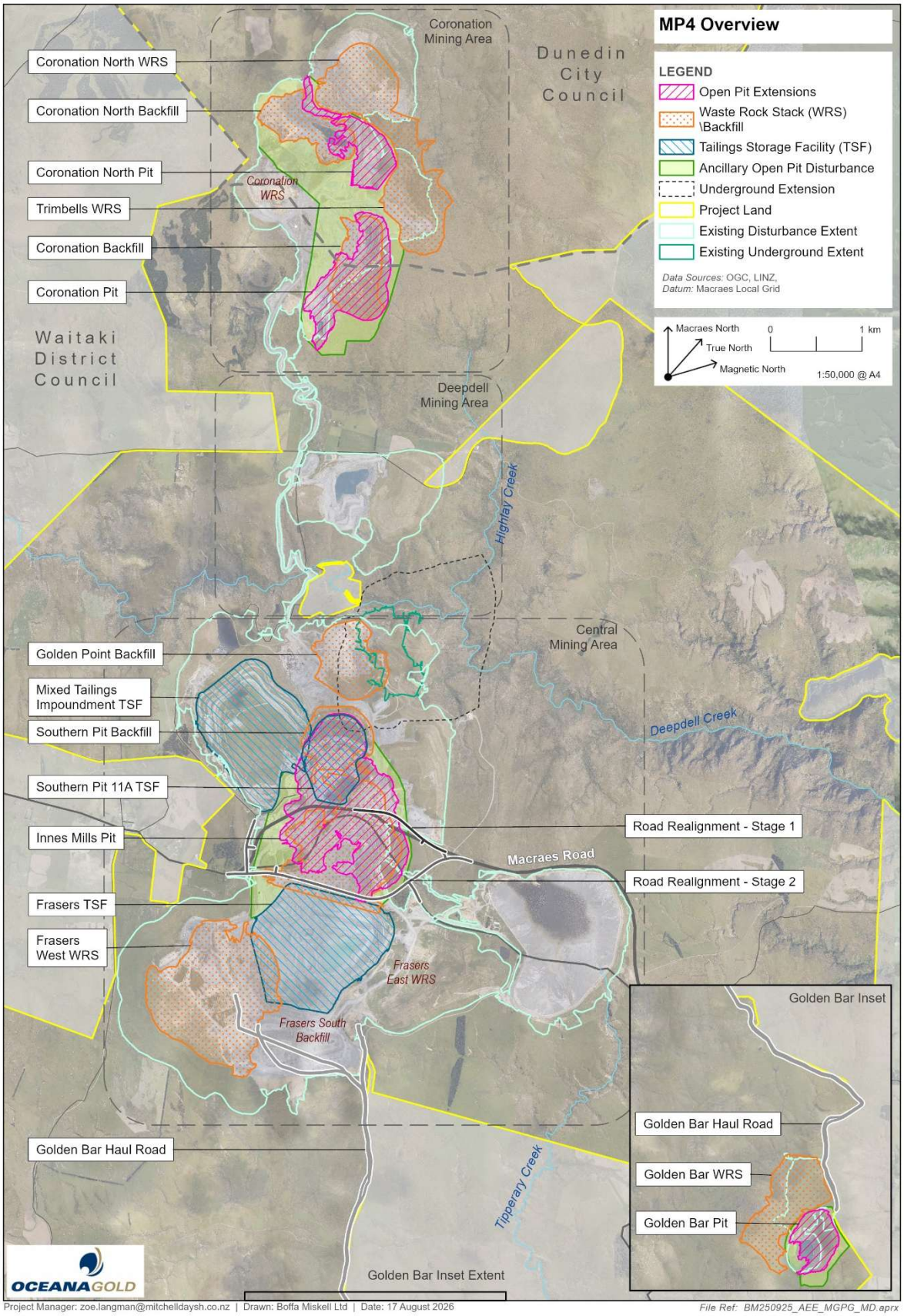

Figure 2-2 MP4 Overview Plan. Macraes Road Alignment Stage 2 is shown in light purple.

3 ASSESSMENT METHODOLOGY AND CRITERIA

The geotechnical performance criteria adopted for the Road recognise that the Road will be supported by the FRBF. The global stability of the road is therefore governed by the design criteria adopted for FTSF Stage 3, while road serviceability is considered separately with respect to post construction settlement and seismic deformation.

The following geotechnical assessments have been undertaken as part of the FTSF Stage 3 technical report:

1. FRBF Embankment seepage
2. FRBF Embankment stability
3. FRBF Embankment settlement

Embankment seepage has been analysed to determine the design phreatic surface to be adopted for the embankment stability assessment. Excerpts of the FTSF Stage 3 report summarising these assessments have been included in Section 4.

No specific settlement tolerances or post seismic performance requirements have been prescribed for the proposed Road. In the absence of project specific criteria, the NZTA Bridge Manual has been used as a recognised performance-based framework for considering the resilience, serviceability and repairability of Macraes Road across the FRBF following an earthquake. Stability checks along the road chainage, complementing the critical global FRBF embankment stability assessment, have been undertaken for the design ULS case for Seismic and Post-Seismic static cases in accordance with the NZTA bridge manual. The results of this assessment are presented in Appendix A.

The dam safety stability criteria adopted for FTSF Stage 3 are generally more onerous than the seismic performance benchmarks typically applied to road infrastructure under the NZTA Bridge Manual, particularly under extreme earthquake loading for lower volume roadways. Compliance with the adopted dam safety criteria is therefore considered to envelope the global stability and life safety requirements relevant to Macraes Road. The geotechnical performance criteria adopted for this assessment are summarised in Table 3-1

Table 3-1: Adopted Geotechnical Performance Criteria

Assessment Condition	**Adopted Performance Criterion**
Long term static (peak drained) stability	The FRBF is to achieve a minimum factor of safety of 1.5 under long term drained conditions.
Short term static (peak undrained) stability	The FRBF is to achieve a minimum factor of safety of 1.5 under short term undrained conditions.
Post-Seismic Static Stability	The FRBF is to achieve a minimum factor of safety of 1.2 under static post seismic conditions, using appropriate softened, residual or liquefied material strengths.
Normal post construction static settlement	Settlement is not to result in unsafe road geometry or loss of positive drainage. The road is to remain serviceable, with settlement capable of being managed through the road design and planned monitoring, maintenance, resurfacing or regrading.
Operating Basis Earthquake (OBE), 1:150-year AEP	The road corridor remains functional and that the resulting damage is minor and easily repairable. The road is expected to remain safe and capable of being returned to service promptly following inspection, with only minor, readily repairable damage.
Ultimate Limited State (ULS) Earthquake 1:500-year AEP	Settlement may result in damage and temporary closure may be required. Road remains repairable and the stability of the FRBF is not compromised.
TSF Embankment Design Level Earthquake Safety Evaluation Earthquake (SEE), 1:10,000-year AEP	For FTSF the requirement is for Safety Evaluation Earthquake (SEE), 1:10,000-year AEP, including aftershock, achieving no uncontrolled release of the impounded contents. This is a requirement to satisfy dam safety of the FRBF but not required under the NZTA bridge manual.

Table notes:

1. The post seismic factor of safety criterion applies to a static assessment undertaken after earthquake shaking has ceased.
2. The post seismic factor of safety criterion does not apply to the pseudo-static analyses used to assess deformation during the OBE or SEE scenarios. For those analyses, the yield acceleration is determined as the seismic coefficient at which the calculated factor of safety equals 1.0. Where the earthquake acceleration exceeds the yield acceleration, the calculated factor of safety may be less than 1.0 and permanent displacement may accumulate. Acceptance is based on the magnitude and consequences of the estimated deformation rather than a minimum during shaking factor of safety.
3. The SEE performance assessment includes the additional deformation estimated for the adopted aftershock.
4. No specific numerical tolerance has been adopted for total or differential settlement of the road. Settlement performance is assessed with consideration of the estimated settlement profile along the road centreline and the resulting effects on longitudinal grade, crossfall, drainage, ride quality and road safety.

The final road geometry and detailed settlement management requirements will be confirmed during detailed design. This will include establishing suitable deformation allowances, minimum grades and crossfalls, monitoring requirements and maintenance or repair triggers.

4 FRASERS BACKFILL EMBANKMENT STABILITY RESULTS

The preliminary results from the static and seismic analyses of the FRBF are summarised in the Frasers TSF Stage 3 Technical Report.

A summary of the stability analysis presented in the Frasers TSF Stage 3 Technical Report are as follows:

1) Static limit equilibrium Factor of Safety (FoS) under peak drained and undrained conditions are all greater than the design criteria of 1.5.

2) Static limit equilibrium FoS under residual undrained condition are all greater than the design criteria of 1.2.

3) Estimated seismically induced displacements under a 1 in 150-year earthquake loading conditions are expected to be minor (less than 50 mm) as the calculated FoS is above 1.0.

4) Estimated seismically induced displacements under a 1 in 10,000-year AEP earthquake for the FRBF embankment are approximately 1.3 to 3 m. Note this design event exceeds that required by the Road design criteria.

5) Estimated seismic induced displacements shortly following the aftershock event, displace the embankment by up to 1.4 m. The earthquake stability is considered adequate and considered easily repairable.

6) Deeper seated downstream failure mechanisms extending along the Big Greasy Fault and Footwall Fault are sensitive to the thickness of waste rock retained within the Innes Mills Pit. Stability analyses indicate that the minimum waste rock buttress (backfill) level of 380 mRL is required to satisfy the adopted stability criteria. This buttress has been incorporated into this assessment.

5 MACRAES ROAD STABILITY, SETTLEMENT AND DEFORMATION

5.1 Design Cases Adopted based on the NZTA Bridge Manual

The design case adopted for the settlement and stability analyses for Macraes Road atop the embankment was assessed over 100 years, including consideration of a 1 in 500 AEP seismic event, in accordance with the ULS performance criteria defined in Table 2.3, in Section 2 in the NZTA bridge manual, corresponding to an *earth slope on highways classified as Access (Low Volume) road over a 100-year design life.*

5.2 Design Criteria Adopted for Macraes Road based on the NZTA Bridge Manual

The Macraes Road performance under a ULS event has been assessed against the performance requirements defined in the NZTA bridge manual for soil structures not affecting bridges after a design DCLS (ULS) event. The performance requirements have been summarised below in Table 5-1.

Table 5-1: Seismic Performance Requirements for Soil Structures not Affecting Bridges after a Design (DCLS) Event. (Ref 13)

Post-earthquake - immediate	Slope stability factor of safety (FoS) > 1.1 for post-seismic stability with residual shear strengths and zero peak ground acceleration
Post-earthquake function - short term	Usable by emergency traffic (as defined in 5.1.2) and capable of supporting two lanes of HN (normal) loading with a slope stability FoS > 1.3 under static strength conditions
Post-earthquake function - after reinstatement	Feasible to reinstate for all design (ULS/DCLS) level actions
Acceptable damage	a. Damage possible: capable of permanent repair. b. The detailing of barriers, foundations formed within or upon soil structures and facing panels should be such that the predicted DCLS displacements do not result in damage to these elements beyond repair. Necessary reinstatement works should be limited to removal of facing panels and barriers, reconstruction of panel footings, reinstatement of barriers and panels to original levels or other lessor level acceptable to the road controlling authority and reconstruction of road pavement.

5.3 Macraes Road Stability

Macraes Road stability has been assessed at roughly 50m chainages along the Macraes road alignment atop the FRBF embankments. The stability of Macraes Road was assessed for a ULS seismic case, immediate post-seismic case and post-seismic functional short-term case was considered.

The embankment bulk fill material defined in the limited equilibrium model, used to assess the stability of the road atop the FRBF are defined in the Frasers TSF Stage 3 report and summarised below in Table 5-2. The strengths of the embankment material have nominally reduced by 20% for the immediate post seismic case have been considered to account for the softening of the silts and sand segregations associated with end tipped material.

Table 5-2 Adopted Material Parameters for Stability Analysis

Material and Condition	Material Model	Unit Weight (kN/m³)	Adopted Strength Parameters
Zone C – peak strength (Ref 5.)	Non-linear strength function	21.5	$\tau = 1.29(\sigma'_v)^{0.91}$

Zone C – reduced strength	Non-linear strength function	21.5	$\tau = 1.032(\sigma'_v)^{0.91}$

The sections assessed satisfy the minimum FOS required for the ULS seismic case and immediate post-seismic case, defined in the NZTA bridge manual. The results are summarised in Table A.1, appended in Appendix A.

Table 5-3 ULS Seismic Design Case for Macraes Road

Case[2]	PGA[1]	Mw
1 in 500 AEP	0.16	6.8

Notes:
1. Adopted spectra is based on NSHM 2022.
2. Adopted design case from NZTA Bridge Manual (Ref 13.)

5.3.1 Stability Results

The stability analyses undertaken along the Macraes Road alignment, satisfy the performance criteria outlined in the NZTA bridge manual, (See Table 5-1)

1. All ULS Stability Seismic cases meet a satisfactory FOS greater than 1.1
2. Post Seismic static stability cases meet the minimum FOS criteria define in the NZTA Bridge Manual, with all FOSs greater than 1.3.

5.4 Assessed Post Construction Settlement

Three potential sources of FTBF embankment settlement have been assessed:

- Static post-construction settlement
- Seismically induced densification of the embankment (Volumetric deformation)
- Vertical settlement associated with Seismic shear displacement

The results are summarised in the sections below and detailed in Appendix A, Table A.2.

5.4.1 Static Settlement

The estimated static settlement generally follows the thickness of Zone C fill beneath the road. Settlement is greatest across the central portion of the FRBF and reduces towards the pit highwall transitions to the east and west.

The actual magnitude of settlement will depend on the long-term response of the Zone C fill and construction duration and is therefore subject to uncertainty. A sensitivity assessment has been undertaken on settlement magnitude based on the available published data and back analysis of the MTI embankment settlement. A range for α, the coefficient for rate of settlement, of 0.1% to 0.4% has been adopted, resulting in a maximum static settlement estimates along the road of approximately 0.5 m to 1.9 m respectively over the 100-year assessment period. At Section S4, the corresponding range accounting for the variability in the rate of settlement is approximately 0.4 m to 1.7 m. The longitudinal static settlement profile, including the estimated range, is presented in Figure 5-1. These results should be interpreted as an indication of potential settlement magnitude to inform assessment of effects and are not a precise estimate.

Static settlement of the FRBF is expected to continue beyond the 100-year period adopted for this assessment, although at a progressively reduced rate.

5.4.2 Seismic Densification Settlement

Seismic densification under the ULS case has been assessed to contribute less than approximately 0.1 m across the different sections considered.

5.4.3 Seismic Shear Displacement Settlement

Under the ULS design case the embankment is not expected to displace any notable amount, with satisfactory FOSs for the analyses undertaken along the embankment chainage.

The vertical component of the estimated ULS shear displacement ranges from approximately 0.1 m to 0.2 m across the representative assessment sections.

At Section S4, the ULS shear displacement is estimated to result in vertical displacement of approximately:

- 0.16 m for the downstream shoulder displacement scenario; and
- 0.17 m for the upstream shoulder displacement scenario.

The upstream and downstream shoulder displacement scenarios represent alternative potential responses of the FRBF. Concurrent displacement of both shoulders has not been assumed, and therefore the calculated upstream and downstream displacements have not been summed.

For detailed design, separate longitudinal road deformation profiles will be retained for the upstream and downstream scenarios. Within each profile, the ULS displacement will be added to the static and seismic densification settlement components. Each profile will be reviewed for its effects on road level, longitudinal grade, crossfall and drainage. The more adverse scenario will be adopted for each relevant design consideration.

An envelope of the two scenarios may be used to identify the maximum local movement and inform potential post-earthquake repair or reconstruction requirements. However, this envelope should not be treated as a single physically concurrent deformation profile or used to calculate differential settlement gradients by connecting results from different scenarios. Differential gradients will be assessed separately within each upstream and downstream profile.

Movement of either shoulder may also result in horizontal translation, rotation and transverse distortion of the road formation. These effects could include pavement cracking, changes in crossfall and damage to road edge or drainage features. The associated horizontal displacement will therefore be considered alongside the calculated vertical component during detailed design and when developing the post-earthquake inspection and repair requirements.

Continued road serviceability immediately following a ULS event is not required. Accordingly, the upstream and downstream displacement scenarios are primarily relevant to understanding the likely nature and extent of post-earthquake damage and informing the inspection, repair and reinstatement of the road.

5.5 Total Settlement

The total settlement is summarised in Table C1, and is calculated as the summation of the static, seismic volumetric change and seismic shear displacement. Total settlement at the

critical section (section 4) is assessed to be up to approximately 1.5 – 1.8m. However, we note that much of this settlement occurs over a prolonged period of time and predominately associated with static consolidation settlement rather than settlement induced by a seismic event.

$$S_{Total} = S_{Static} + S_{Seismic\ Vol} + S_{Seismic\ Shear}$$

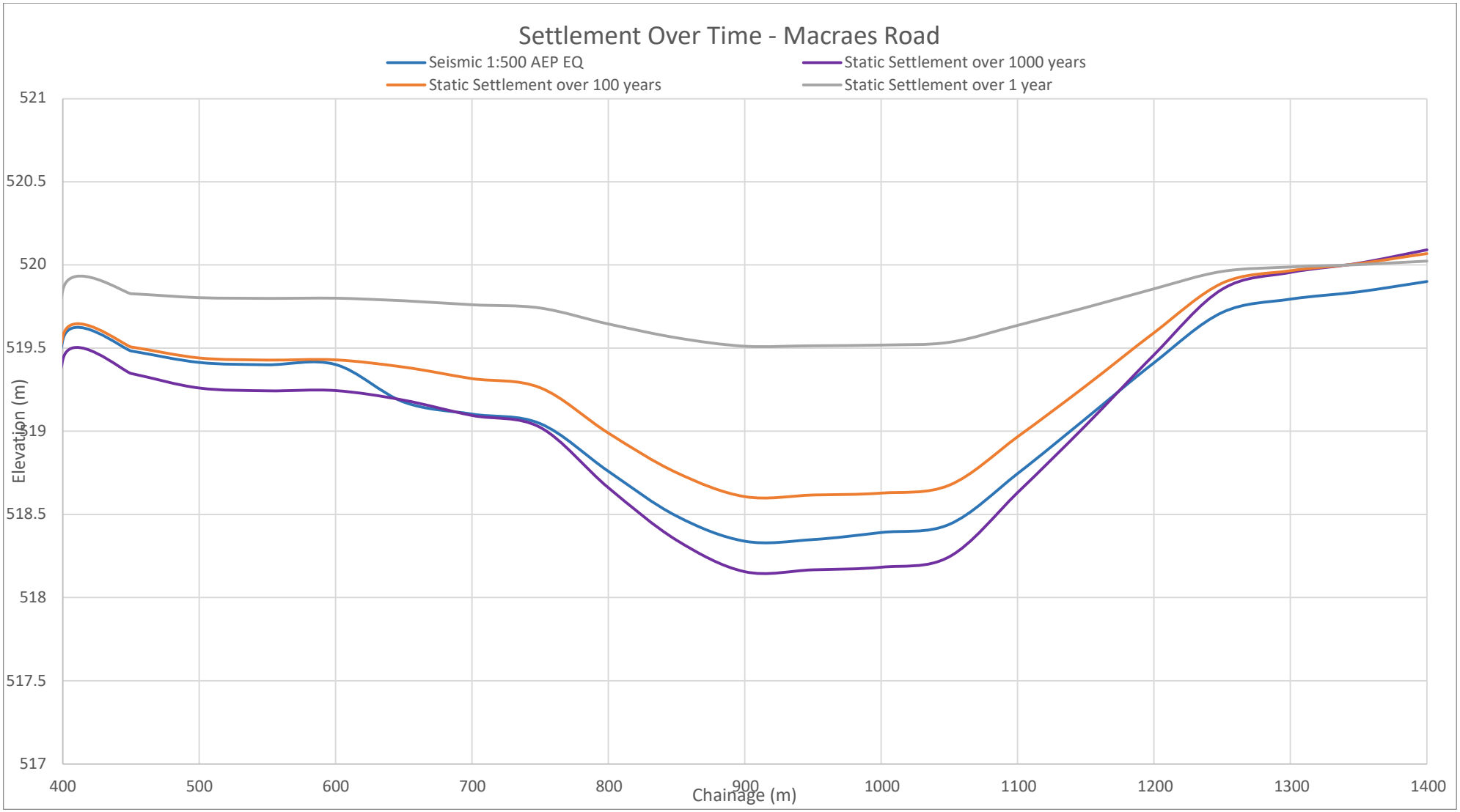

Figure 5-1: Settlement Profile Assessed Along Macraes Road

6 GEOTECHNICAL DESIGN AND MANAGEMENT MEASURES

The assessments presented in this report indicate that the proposed Road realignment across the FRBF is geotechnically feasible. The estimated settlement and seismic deformation can be managed through detailed design of the road formation, monitoring, routine maintenance and post-earthquake inspection and repair.

The measures outlined below will be developed during detailed design. Relevant requirements will be incorporated into the FTSF Stage 3 Operation, Maintenance and Surveillance (OMS) Manual and mine closure arrangements.

6.1 Differential Settlement at Pit Wall Highwall Transitions

The greatest differential settlement is expected where the road transitions between the FRBF and the adjacent pit highwalls. The pit highwalls provide a relatively stiff rock foundation, whereas the adjacent Zone C waste rock will continue to settle following construction.

The final Road alignment, formation and drainage will be designed with reference to the estimated longitudinal settlement profile presented in Figure 5-1 and Section 5. Specific transition treatments will be developed during detailed design and may include one or a combination of:

- benching or local excavation at the highwall transition;
- tapered zones of selected and well-compacted fill;
- local reinforcement of the road formation;
- additional formation thickness or settlement allowance; and
- pavement and surfacing materials that can accommodate gradual deformation and be readily repaired.

The Road formation and drainage will also be designed to allow routine resurfacing and regrading as settlement develops. This will enable the Road profile, crossfall and drainage performance to be maintained without materially affecting the FRBF.

These measures provide a practicable means of accommodating the estimated differential settlement. The detailed treatment adopted will be confirmed once the final Road geometry and pavement design are available.

6.2 Monitoring and maintenance

A baseline survey of the completed Road and FRBF crest will be undertaken once road construction is complete. Monitoring is proposed to focus on the pit highwall transitions and areas of greatest embankment thickness, where changes in total and differential settlement are expected to be the largest.

During mine operations and active closure works, geotechnical monitoring of the road will be incorporated into the broader mine geotechnical monitoring framework. This will provide an integrated framework for monitoring settlement and deformation, maintaining the road and drainage profile, and responding to any deterioration in performance. This is expected to include visual inspections, survey of permanent deformation monitoring points, aerial survey and review of InSAR data, consistent with the monitoring approach currently applied

to the FRBF. The broader mine geotechnical monitoring framework will establish the monitoring frequency, performance criteria, trigger levels, reporting requirements and required responses.

Road condition inspections will consider cracking, rutting, surface distortion, potential for ponding and movement at the highwall transitions. Maintenance identified during mine operations can be undertaken through the site's routine road and earthworks activities and may include local filling, resurfacing, regrading and repair or adjustment of drainage features.

Following mine closure, the required road and FRBF monitoring will be incorporated into the mine closure monitoring programme. The closure arrangements will define the responsible party, monitoring frequency and duration, performance criteria, reporting requirements and responsibility for maintenance or remedial works. Monitoring frequency may be reduced where the results demonstrate that settlement rates are declining and the road is performing as intended. Closure bond provisions will not extend to routine road maintenance, normal pavement renewal or wear and tear unrelated to the performance of the FRBF.

Provision for post closure monitoring, maintenance and potential remedial works related to post-closure settlement can be addressed through inclusion in the closure cost estimate and secured through the mine closure bond. This will provide an ongoing mechanism for managing settlement and maintaining the road following the end of active mine operations.

6.3 Post Seismic Event Inspection and Repair

Post seismic inspection of the FRBF will be incorporated into the event driven surveillance requirements of the FTSF Stage 3 OMS Manual. Following an earthquake exceeding the adopted trigger level, the road will be closed or subject to appropriate access restrictions until an initial inspection has been completed.

The inspection will consider cracking, lateral displacement, differential settlement, changes in road level, damage to drainage features and deformation of the FRBF shoulders and pit highwall transitions. Where material deformation is identified, survey measurements will be compared with the pre seismic baseline and reviewed by appropriately qualified geotechnical and dam safety personnel.

Minor deformation may be addressed by local filling, resurfacing, regrading and drainage repairs. Where more substantial deformation has occurred, the road will remain closed or restricted until its condition has been assessed and the required repairs or reconstruction completed.

We note that continued road serviceability immediately following a SEE event is extremely unlikely. Rather, the performance objective is that the FRBF remains stable and does not release impounded contents, and that the road can be inspected and reinstated.

7 CONCLUSION

EGL has assessed the geotechnical effects associated with the proposed Road where it crosses the completed FRBF. The assessment is based on the preliminary FTSF Stage 3 and

road designs, and considers static and seismic stability, post construction settlement and deformation, and the measures available to manage the resulting effects on the road.

The assessment indicates that the proposed road realignment is geotechnically feasible subject to retaining the assessed FRBF geometry and implementing the detailed design and management measures identified in Section 6.

The static and post seismic stability analyses for Macraes road atop the FRBF embankment, satisfy the adopted stability criteria defined in the NZTA bridge manual.

Continued road serviceability following the seismic ULS event is feasible, and the road will remain usable for emergency traffic.

Continued road serviceability immediately following the SEE is not required. The performance objective is that the FRBF remains stable without an uncontrolled release of impounded contents and that the road can be inspected and reinstated. Temporary closure and substantial repair or reconstruction will likely be required following an extreme earthquake.

Post construction settlement of the FRBF will continue after the road is formed. Over the assumed 100-year road design life, the maximum estimated static settlement is approximately 1.4 m occurring where fill thicknesses are greater, with differential settlement as steep as 0.4 m across 50 m occurring at the highwall interfaces. Static settlement is expected to continue beyond this period at a progressively reduced rate. Seismic displacements and volumetric consolidation will contribute additional settlement in the event of an earthquake.

The magnitude of this settlement will depend on the intensity of the earthquake. Detailed design of the road will consider the risk of seismic induced settlement and the repair and maintenance post-event. This risk will be considered in post closer bonding.

The greatest differential settlement is expected at the transitions between the FRBF and the adjacent pit highwalls. It is recommended that the final road design accounts for the estimated settlement profile and includes appropriate transition treatments, settlement allowances, longitudinal grades and crossfalls as well as provisions for periodic resurfacing and regrading as settlement develops.

Monitoring and maintenance of the road will be incorporated into the wider mine geotechnical monitoring framework. Following mine closure, responsibility and financial provision for monitoring and remedial works attributable to settlement or deformation of the FRBF can be addressed through the closure arrangements and mine closure bond. This provision will not extend to routine road maintenance, normal pavement renewal or wear and tear unrelated to the performance of the FRBF.

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11. Sowers, G. F., Williams, C. R., & Wallace, S. T. (1965). *Compressibility of Broken Rock and the Settlement of Rockfills.*
12. Swaisgood, J. R. (2014). *Behaviour of Embankment Dams During Earthquake.*
13. Waka Kotahi - NZ Transport Agency. (2022). *Bridge manual - SP/M/022.*
14. Wang, Y., Chen, Y., & Matuschka, T. (2025). *Numerical investigation on the period-dependent seismic amplification for embankment dams.*

APPENDIX A
STABILITY AND SETTLEMENT ANALYSES

Table of Contents

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A.1. SETTLEMENT ASSESSMENT

Post construction settlement and deformation of the FRBF have been assessed along the proposed road alignment at 50 m intervals. The assessment considers a period of has been assessed over a period of 100 years post following completion of road construction and include the following components:

- Static post-construction settlement
- Seismically induced densification of the embankment (Volumetric deformation)
- Vertical settlement associated with Seismic shear displacement

Settlement occurring during construction of the FRBF has not been assessed as it is expected that embankment is “topped up” as part of the construction works to account for settlement during construction. The calculated settlement components are combined in Section 5.2 to develop the longitudinal settlement profiles for the proposed road. The settlement analysis is undertaken based on a longitudinal section cut along the FRBF dam-axis, visualised as Section S1 on Figure A 1-1 and Figure A 1-2.

Both seismic shear deformation for the upstream and downstream shoulder have been evaluated. Although the upstream and downstream shoulders are on the same sections, their responses are considered independent. Concurrent failures of the upstream and downstream shoulders have not been considered.

The adopted 100-year assessment period represents the assumed road design life. Static settlement is expected to continue beyond this period at a progressively reducing rate.

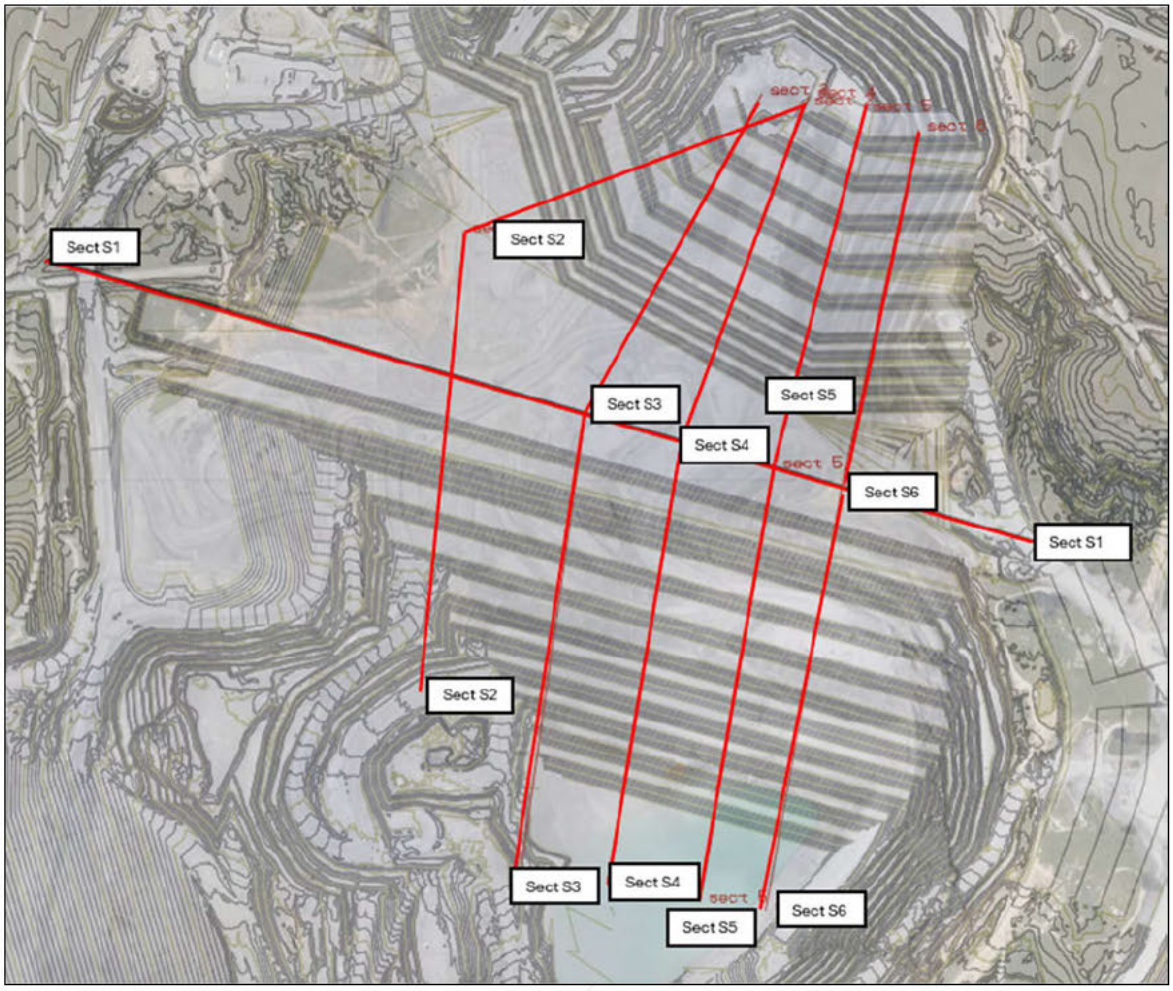

Figure A 1-1 Plan showing Sections Considered for Settlement Calculations

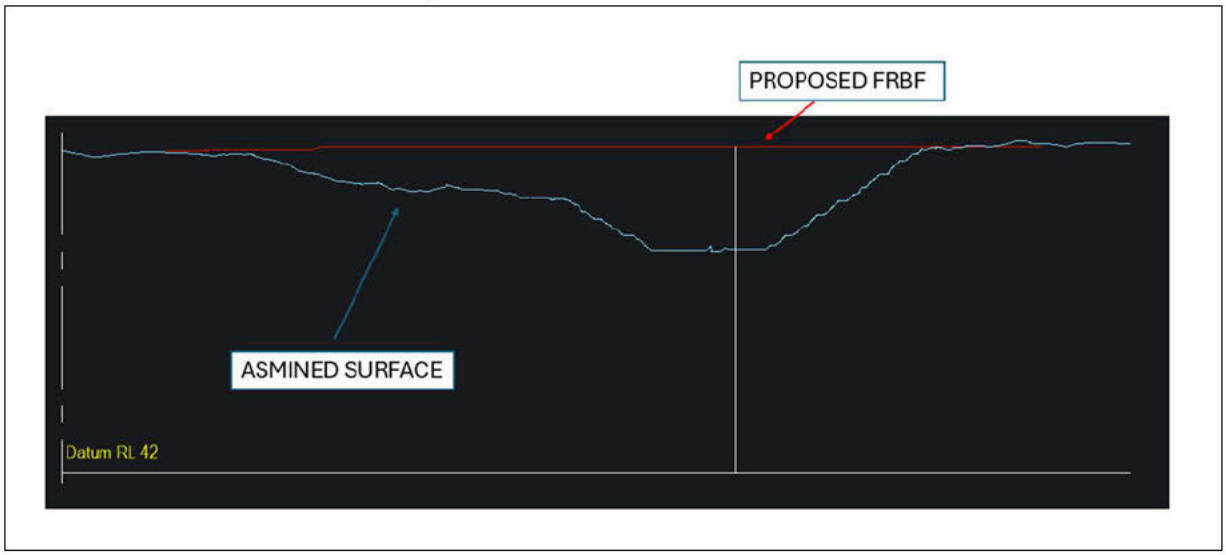

Figure A 1-2 Longitudinal Section Along FRBF Embankment

A.2. STATIC POST CONSTRUCTION SETTLEMENT

Long-term static settlement of the FRBF has been estimated using the logarithmic time-settlement relationship presented in (Sowers, Williams, & Wallace, 1965) (Ref 8.) . Calibrated with historical MTI deformation data.

$$\triangle H = \alpha(\log t_2 - log t_1)$$

Where:

- $\triangle$H is change in settlement as a percentage of fill height between t_1 and t_2.
- α (alpha) is the decreasing rate of settlement
- t_1 and t_2 are the times from the date at which embankment construction was approximately half complete.

The adopted value of α was selected by comparing the published ranges for compacted rockfill embankments presented by Sowers et al. (1965) (Ref 8.) and Hunter and Fell (2003) (Ref 6.) with a back analysis of settlement monitoring data from the Mixed Tailings Impoundment (MTI) embankment at Macraes.

For the MTI back analysis, the available monitoring data was plotted against the logarithm of time. The gradient of the best fit settlement relationship was normalised by the estimated local embankment height to calculate the corresponding settlement rate per log cycle. As detailed construction sequencing information was not available for MTI, the embankment was assumed to have been constructed uniformly over a period of one year, with the time datum taken as the approximate date of half completion.

α values generally ranged between 0.1% and 0.4%. A α value of 0.3% per log cycle has been adopted for the FRBF. This value is broadly consistent with the published performance of comparable compacted rockfill embankments.

Static settlement was calculated at 50 m intervals along the road centreline using the local thickness of Zone C fill. The assessment period commences when the road is assumed to be formed shortly after completion of the FRBF and extends for 100 years.

A.3. SEISMIC DENSIFICATION SETTLEMENT

Seismic densification has been estimated with the guidance of (Swaisgood, 2014) and (Pells & Fell, 2003) (Ref 6.). These methods are based on the observed performance of embankment dams during historical earthquakes and were also adopted for the preceding stages of the FRBF.

The Swaisgood method estimates normalised crest settlement as a function of earthquake magnitude and peak ground acceleration. The Pells and Fell method assigns a potential damage category based on earthquake magnitude and peak ground acceleration, from which a corresponding range of relative settlement is estimated.

The earthquake magnitudes and peak ground accelerations adopted in the assessment are described in Appendix B Section B.1.5. At each 50 m chainage, the relative settlement estimated using each method was converted to an absolute settlement using the local thickness of embankment fill. The higher settlement estimated by the two methods has been adopted as the design seismic densification settlement at each chainage.

The critical section where the fill is the deepest is at approximately chainage 16076 m (Section S4), with a fill height of 150m.

A.4. SEISMIC SHEAR DISPLACEMENT SETTLEMENT

Seismic shear displacement settlement checks were undertaken with guidance from (Bray & Macedo, 2019) (Ref 1.). The resultant 2D displacement (84th percentile) calculated with Bray and Macedo (2019) (Ref 1.), was resolved into its vertical component and incorporated into the wider settlement assessment.

Under the ULS design case the embankment is not expected to displace, with satisfactory FOS's for the analyses undertaken along the embankment chainage. Displacements calculated are considered the upper bound limits.

The seismic shear displacements have been considered in the cross sections presented, above in Figure A 1-1, in Section 0. The cross sections have been modelled in SLOPE/W and undergone a seismic pseudo-static analysis.

Upstream and downstream shoulder displacement scenarios have been assessed separately. Concurrent displacement of both shoulders has not been assumed, and the calculated displacements have therefore not been summed across the two shoulders.

The modelled analyses are shown in below and displacements are summarised in Table A2

A.5. REFERENCES

1. Bray, J. D., & Macedo, J. (2019). Procedure for Estimating Shear-Induced Seismic Slope Displacement for Shallow Crustal Earthquakes.
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9. Sowers, G. F., Williams, C. R., & Wallace, S. T. (1965). Compressibility of Broken Rock and the Settlement of Rockfills.
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11. Wang, Y., Chen, Y., & Matuschka, T. (2025). Numerical investigation on the period-dependent seismic amplification for embankment dams.

Tables

Table A 1: Seismic Hazard Spectra Adopted For FRBF Embankment

Period, T (s)	150 Yr V_{s30}=1000 m/s	10000Yr Vs30=1000 m/s	10,000 Yr Vs30=1000 m/s	500 Yr Vs = 1000 m/s	Amplified Spectra			
	OBE	SEE	(SEE) Aftershock	ULS	150 Yr OBE	10000 Yr SEE	10,000 Yr (SEE) Aftershock	500 Yr ULS
0	0.08	0.69	0.51	0.16	0.32	0.73	0.67	0.53
0.01	0.08	0.69	0.51	0.16	0.32	0.73	0.67	0.53
0.1	0.17	1.65	1.19	0.38	0.68	1.75	1.57	1.26
0.2	0.17	1.63	1.05	0.36	0.73	2.24	1.73	1.30
0.3	0.13	1.30	0.76	0.29	0.61	2.37	1.61	1.18
0.4	0.11	1.08	0.57	0.23	0.56	2.46	1.48	1.04
0.5	0.09	0.91	0.44	0.2	0.49	2.48	1.35	0.99
0.7	0.07	0.68	0.31	0.15	0.44	2.46	1.24	0.88
1	0.05	0.48	0.2	0.11	0.31	1.74	0.80	0.64
1.5	0.03	0.30	0.11	0.07	0.19	1.09	0.44	0.41
2	0.02	0.22	0.07	0.05	0.13	0.80	0.28	0.29
3	0.01	0.14	0.04	0.03	0.06	0.51	0.16	0.18
4	0.01	0.10	0.03	0.03	0.06	0.36	0.12	0.18
5	0.01	0.08	0.02	0.02	0.06	0.29	0.08	0.12
6	0.01	0.06	0.02	0.02	0.06	0.22	0.08	0.12
7.5	0	0.05	0.01	0.01	0.00	0.18	0.04	0.06
10	0	0.03	0.01	0.01	0.00	0.11	0.04	0.06

Notes:

1. Spectra is based on NSHM 2022

Amplified spectra is amplified with amplification ratios calculated with (Park & Kishida, 2019) and conducted in accordance with (Wang, Chen, & Matuschka, 2025)

Table A 2 Road Embankment Stability Summary

Loading Case	Slip Mode	Figure No.	Figure	FOS
ULS (1 in 500 AEP) Seismic	Circular Slip (Entry Exit Defined)	A01	S2 Downstream ULS (1 in 500 Year - Seismic)	1.18
		A02	S2 Upstream ULS (1 in 500 Year - Seismic)	1.27
		A03	S3 Downstream ULS (1 in 500 Year - Seismic)	1.13
		A04	S3 Upstream ULS (1 in 500 Year - Seismic)	1.24
		A05	S4 Downstream ULS (1 in 500 Year - Seismic)	1.14
		A06	S4 Upstream ULS (1 in 500 Year - Seismic)	1.18
		A07	S5 Downstream ULS (1 in 500 Year - Seismic)	1.22
		A08	S5 Upstream ULS (1 in 500 Year - Seismic)	1.30
		A09	S6 Downstream ULS (1 in 500 Year - Seismic)	1.21
		A10	S6 Upstream ULS (1 in 500 Year - Seismic)	1.18
Short-Term Post Seismic – Residual Static (1) (2)		A11	S2 Downstream ULS (1 in 500 Year - Post EQ - Residual)	1.34
		A12	S2 Upstream ULS (1 in 500 Year - Post EQ - Residual)	1.42
		A13	S3 Downstream ULS (1 in 500 Year - Post EQ - Residual)	1.28
		A14	S3 Upstream ULS (1 in 500 Year - Post EQ - Residual)	1.47
		A15	S4 Downstream ULS (1 in 500 Year - Post EQ - Residual)	1.30
		A16	S4 Upstream ULS (1 in 500 Year - Post EQ - Residual)	1.37
		A17	S5 Downstream ULS (1 in 500 Year - Post EQ - Residual)	1.39
		A18	S5 Upstream ULS (1 in 500 Year - Post EQ - Residual)	1.55
		A19	S6 Downstream ULS (1 in 500 Year - Post EQ - Residual)	1.41
		A20	S6 Upstream ULS (1 in 500 Year - Post EQ - Residual)	1.36

Notes:

1. Residual Parameters for Embankment is 80% of full-strength of Zone C material. To account for softening of silts and sands associated with end tipping
2. Must be greater than 1.1. As per NZTA Bridge Manual Table 6.2

Table A 3 Road Embankment Settlement Summary

Loading Case	Case	kh	V_s (m/s)	Total Displacement (cm)(1)	Vertical Displacement (cm)(2)	S Sliding (m) (84th %tile)	S Densification (m) (3) AEP 1:500	S Static (4) (m)	S Total (m)
ULS (1 in 500 Year)	Section 2 Downstream	0.23	393	9.7 to 41.9	4 - 18	0.18	0.03	0.61	0.83
	Section 2 Upstream	0.23	390	9.7 to 41.9	4 - 17	0.17	0.03	0.61	0.81
	Section 3 Downstream	0.23	375	9.7 to 41.8	5 - 20	0.20	0.07	1.39	1.66
	Section 3 Upstream	0.23	446	9.1 to 39.3	4 - 15	0.15	0.07	1.39	1.61
	Section 4 Downstream	0.23	357	9.6 to 41.6	4 - 17	0.17	0.06	1.32	1.56
	Section 4 Upstream	0.23	446	9.1 to 39.3	4 - 16	0.16	0.06	1.32	1.55
	Section 5 Downstream	0.23	389	9.4 to 40.8	3 - 14	0.14	0.02	0.41	0.57
	Section 5 Upstream	0.23	427	9.3 to 40.3	4 - 16	0.16	0.02	0.41	0.59
	Section 6 Downstream	0.23	406	9.4 to 40.8	3 - 15	0.15	0.00	0.03	0.18
	Section 6 Upstream	0.23	442	9.1 to 39.3	4 - 17	0.17	0.00	0.03	0.21

Notes:

1) Total deformation is taken from the seismic displacements estimated using B&M 2019 in Table D2.
2) The vertical and horizontal components are estimated based on the shear angle of the critical potential failure surface.
3) Seismic densification settlement is calculated with Pells and Fells 2003 and Swaisgood 2014, the maximum value of the two was adopted.
4) Static Settlement assessed over 100 years, based on regression analysis of previous deformation prisms from nearby TSF - MTI over.
5) Foundation modelled as impenetrable surface (i.e no faults and ground parameters are considered)

SLOPE/W Figures
Seismic and Static Post Earthquake Residual

Appendix A Figure List

Figure A01	S2 Downstream ULS (1 in 500 Year - Seismic)
Figure A02	S2 Upstream ULS (1 in 500 Year - Seismic)
Figure A03	S3 Downstream ULS (1 in 500 Year - Seismic)
Figure A04	S3 Upstream ULS (1 in 500 Year - Seismic)
Figure A05	S4 Downstream ULS (1 in 500 Year - Seismic)
Figure A06	S4 Upstream ULS (1 in 500 Year - Seismic)
Figure A07	S5 Downstream ULS (1 in 500 Year - Seismic)
Figure A08	S5 Upstream ULS (1 in 500 Year - Seismic)
Figure A09	S6 Downstream ULS (1 in 500 Year - Seismic)
Figure A10	S6 Upstream ULS (1 in 500 Year - Seismic)
Figure A11	S2 Downstream ULS (1 in 500 Year - Post EQ - Residual)
Figure A12	S2 Upstream ULS (1 in 500 Year - Post EQ - Residual)
Figure A13	S3 Downstream ULS (1 in 500 Year - Post EQ - Residual)
Figure A14	S3 Upstream ULS (1 in 500 Year - Post EQ - Residual)
Figure A15	S4 Downstream ULS (1 in 500 Year - Post EQ - Residual)
Figure A16	S4 Upstream ULS (1 in 500 Year - Post EQ - Residual)
Figure A17	S5 Downstream ULS (1 in 500 Year - Post EQ - Residual)
Figure A18	S5 Upstream ULS (1 in 500 Year - Post EQ - Residual)
Figure A19	S6 Downstream ULS (1 in 500 Year - Post EQ - Residual)
Figure A20	S6 Upstream ULS (1 in 500 Year - Post EQ - Residual)

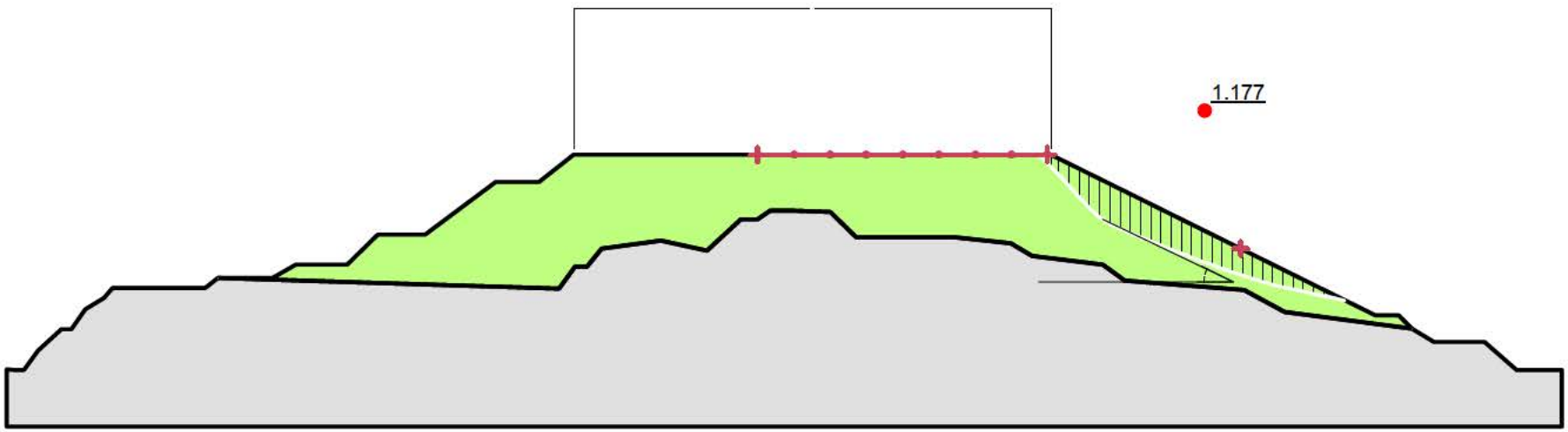
Analysis Parameters:

Method: Morgenstern-Price
Search Method: Entry and Exit
Direction of Movement: Left to Right
Unit Weight of Water: 9.807 kN/m³
Horz Seismic Coef.: 0.16
Factor of Safety: 1.177

PWP Conditions from: (none)

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Shear/Normal Strength Fn.
	Impenetrable	(None)		
	Zone C	Shear/Normal Fn.	21.5	1.29*Sigma^0.91

Factor of Safety
- 1.177 - 1.377
- 1.377 - 1.577
- 1.577 - 1.777
- 1.777 - 1.977
- 1.977 - 2.177
- 2.177 - 2.377
- 2.377 - 2.577
- 2.577 - 2.777
- 2.777 - 2.977
- ≥ 2.977



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A01) S2 Downstream ULS (1 in 500 Year - Seismic)

Stability Analysis

Date: 17/08/2026
Ref: 10092
Figure: 00
Scale: 1:5,000
Drawn: TO

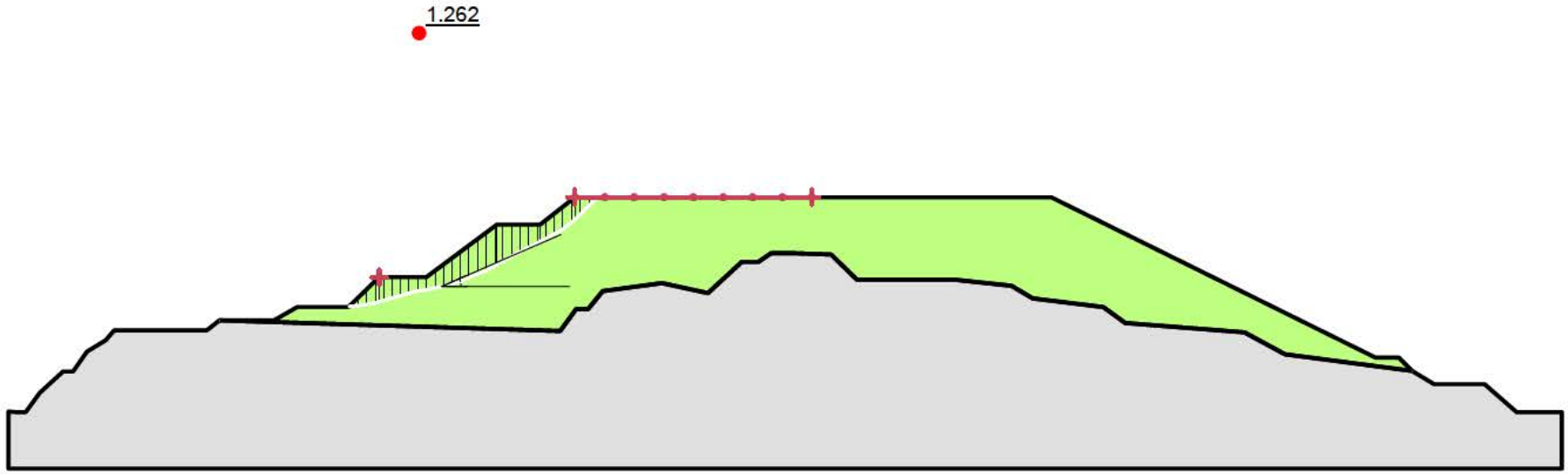
Analysis Parameters:

Method: Morgenstern-Price
Search Method: Entry and Exit
Direction of Movement: Right to Left
Unit Weight of Water: 9.807 kN/m³
Horz Seismic Coef.: 0.16
Factor of Safety: 1.262

PWP Conditions from: (none)

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Shear/Normal Strength Fn.
	Impenetrable	(None)		
	Zone C	Shear/Normal Fn.	21.5	1.29*Sigma^0.91

Factor of Safety
- 1.262 - 1.462
- 1.462 - 1.662
- 1.662 - 1.862
- 1.862 - 2.062
- 2.062 - 2.262
- 2.262 - 2.462
- 2.462 - 2.662
- 2.662 - 2.862
- 2.862 - 3.062
- ≥ 3.062



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A02) S2 Upstream ULS (1 in 500 Year - Seismic)

Stability Analysis

Date: 17/08/2026
Ref: 10092
Figure: 00
Scale: 1:5,000
Drawn: TO

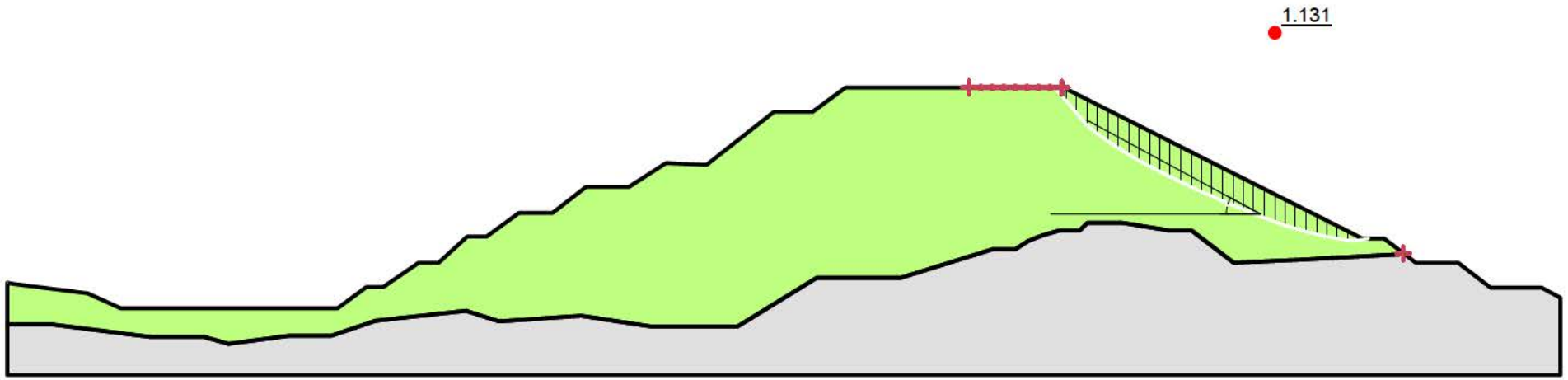
Analysis Parameters:

Method: Morgenstern-Price
Search Method: Entry and Exit
Direction of Movement: Left to Right
Unit Weight of Water: 9.807 kN/m³
Horz Seismic Coef.: 0.16
Factor of Safety: 1.131

PWP Conditions from: (none)

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Shear/Normal Strength Fn.
	Impenetrable	(None)		
	Zone C	Shear/Normal Fn.	21.5	1.29*Sigma^0.91

Factor of Safety
- 1.131 - 1.331
- 1.331 - 1.531
- 1.531 - 1.731
- 1.731 - 1.931
- 1.931 - 2.131
- 2.131 - 2.331
- 2.331 - 2.531
- 2.531 - 2.731
- 2.731 - 2.931
- ≥ 2.931



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A03) S3 Downstream ULS (1 in 500 Year - Seismic)

Stability Analysis

Date: 17/08/2026
Ref: 10092
Figure: 00
Scale: 1:5,000
Drawn: TO

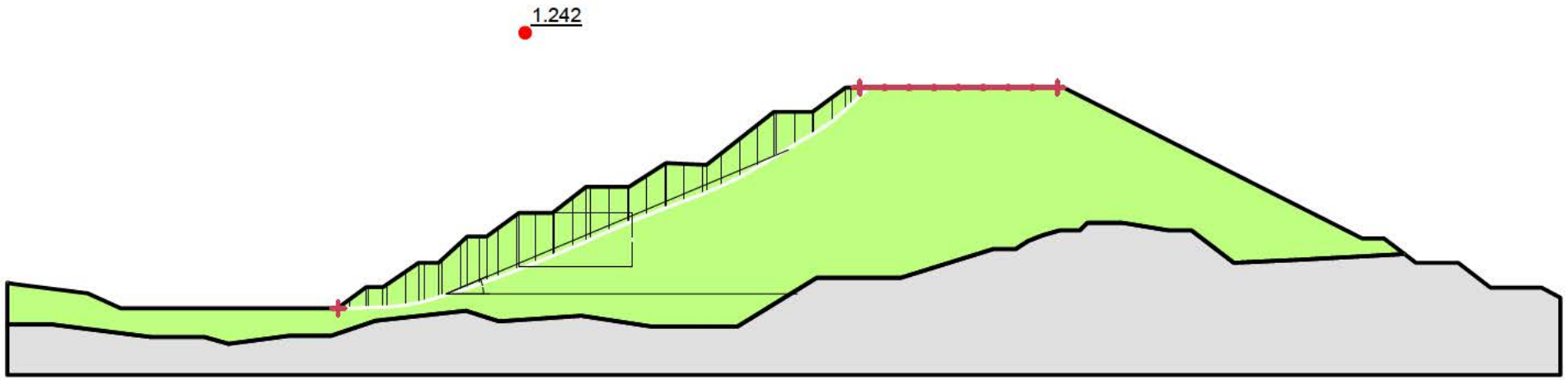
Analysis Parameters:

Method: Morgenstern-Price
Search Method: Entry and Exit
Direction of Movement: Right to Left
Unit Weight of Water: 9.807 kN/m³
Horz Seismic Coef.: 0.16
Factor of Safety: 1.242

PWP Conditions from: (none)

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Shear/Normal Strength Fn.
	Impenetrable	(None)		
	Zone C	Shear/Normal Fn.	21.5	1.29*Sigma^0.91

Factor of Safety
- 1.242 - 1.442
- 1.442 - 1.642
- 1.642 - 1.842
- 1.842 - 2.042
- 2.042 - 2.242
- 2.242 - 2.442
- 2.442 - 2.642
- 2.642 - 2.842
- 2.842 - 3.042
- ≥ 3.042



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A04) S3 Upstream ULS (1 in 500 Year - Seismic)

Stability Analysis

Date: 17/08/2026
Ref: 10092
Figure: 00
Scale: 1:5,000
Drawn: TO

Analysis Parameters:

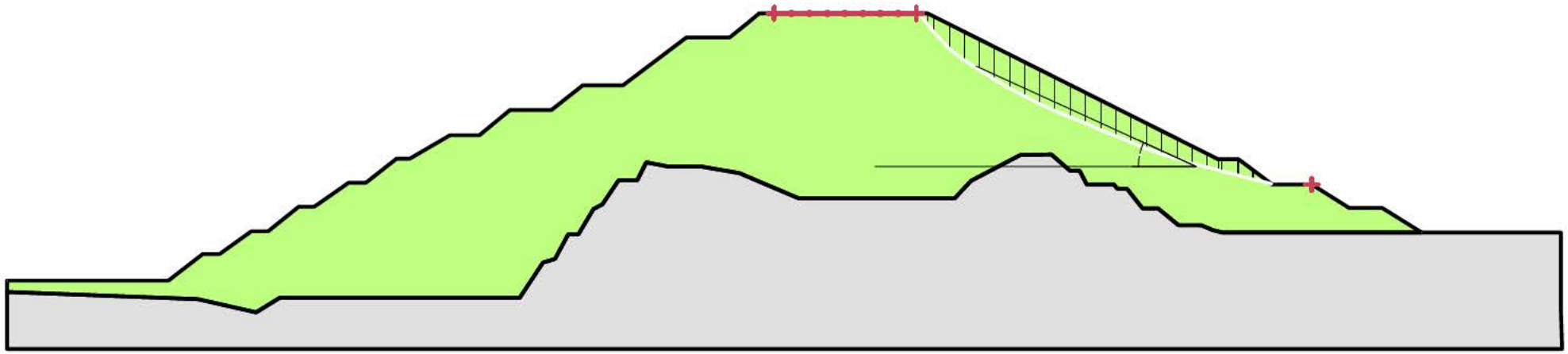
Method: Morgenstern-Price
Search Method: Entry and Exit
Direction of Movement: Left to Right
Unit Weight of Water: 9.807 kN/m³
Horz Seismic Coef.: 0.16
Factor of Safety: 1.143

PWP Conditions from: (none)

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Shear/Normal Strength Fn.
	Impenetrable	(None)		
	Zone C	Shear/Normal Fn.	21.5	1.29*Sigma^0.91

Factor of Safety
- 1.143 - 1.343
- 1.343 - 1.543
- 1.543 - 1.743
- 1.743 - 1.943
- 1.943 - 2.143
- 2.143 - 2.343
- 2.343 - 2.543
- 2.543 - 2.743
- 2.743 - 2.943
- ≥ 2.943

1.143



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A05) S4 Downstream ULS (1 in 500 Year - Seismic)

Stability Analysis

Date: 17/08/2026
Ref: 10092
Figure: 00
Scale: 1:5,000
Drawn: TO

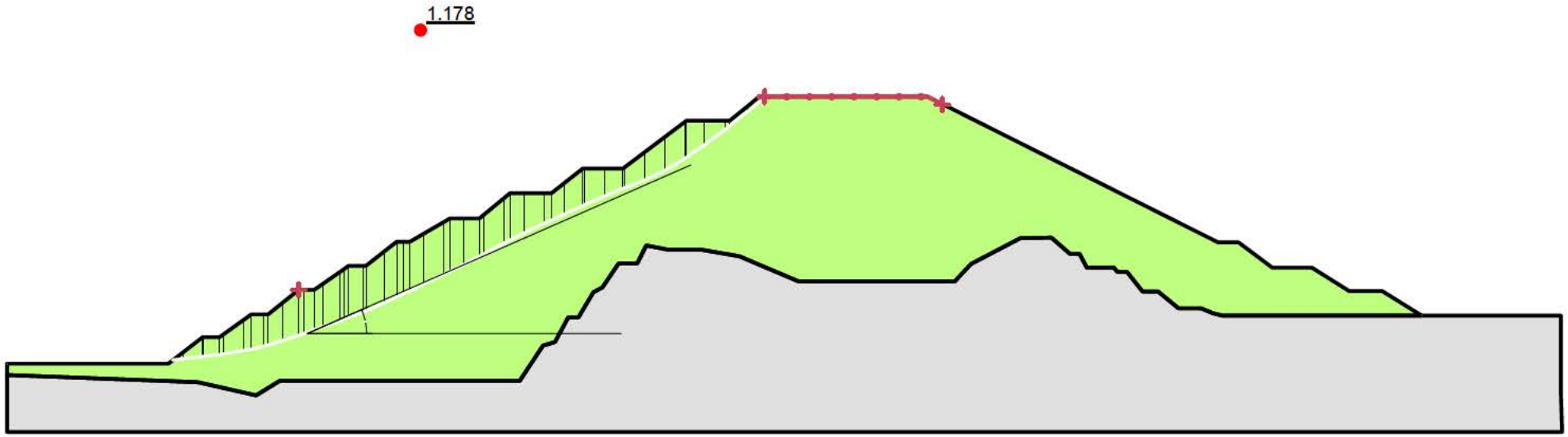
Analysis Parameters:

Method: Morgenstern-Price
Search Method: Entry and Exit
Direction of Movement: Right to Left
Unit Weight of Water: 9.807 kN/m³
Horz Seismic Coef.: 0.16
Factor of Safety: 1.178

PWP Conditions from: (none)

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Shear/Normal Strength Fn.
	Impenetrable	(None)		
	Zone C	Shear/Normal Fn.	21.5	1.29*Sigma^0.91

Factor of Safety
- 1.178 - 1.378
- 1.378 - 1.578
- 1.578 - 1.778
- 1.778 - 1.978
- 1.978 - 2.178
- 2.178 - 2.378
- 2.378 - 2.578
- 2.578 - 2.778
- 2.778 - 2.978
- ≥ 2.978



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A06) S4 Upstream ULS (1 in 500 Year - Seismic)

Stability Analysis

Date: 17/08/2026
Ref: 10092
Figure: 00
Scale: 1:5,000
Drawn: TO

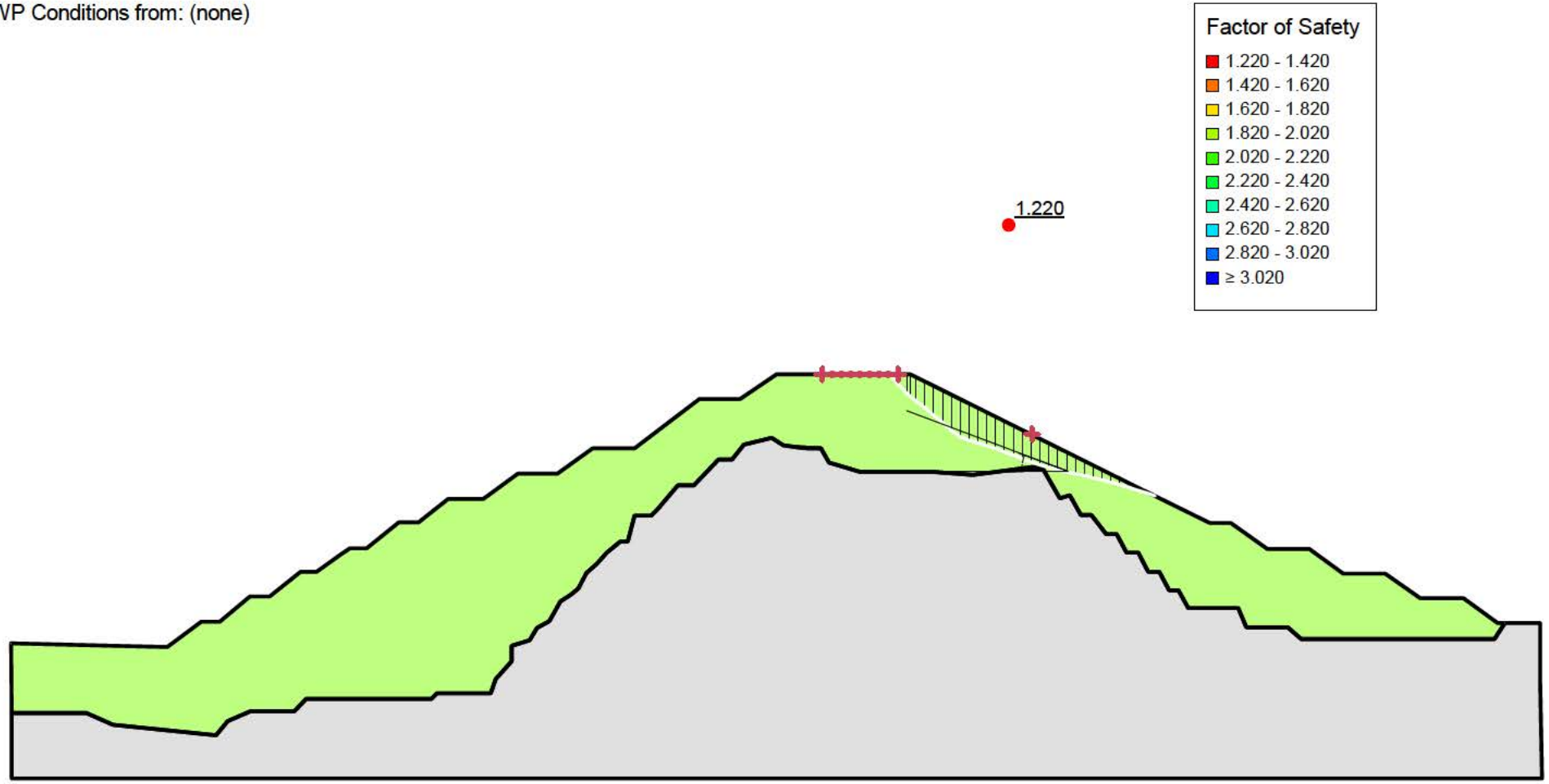
Analysis Parameters:

Method: Morgenstern-Price
Search Method: Entry and Exit
Direction of Movement: Left to Right
Unit Weight of Water: 9.807 kN/m³
Horz Seismic Coef.: 0.16
Factor of Safety: 1.220

PWP Conditions from: (none)

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Shear/Normal Strength Fn.
	Impenetrable	(None)		
	Zone C	Shear/Normal Fn.	21.5	1.29*Sigma^0.91

Factor of Safety
- 1.220 - 1.420
- 1.420 - 1.620
- 1.620 - 1.820
- 1.820 - 2.020
- 2.020 - 2.220
- 2.220 - 2.420
- 2.420 - 2.620
- 2.620 - 2.820
- 2.820 - 3.020
- ≥ 3.020



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A07) S5 Downstream ULS (1 in 500 Year - Seismic)

Stability Analysis

Date: 17/08/2026
Ref: 10092
Figure: 00
Scale: 1:5,000
Drawn: TO

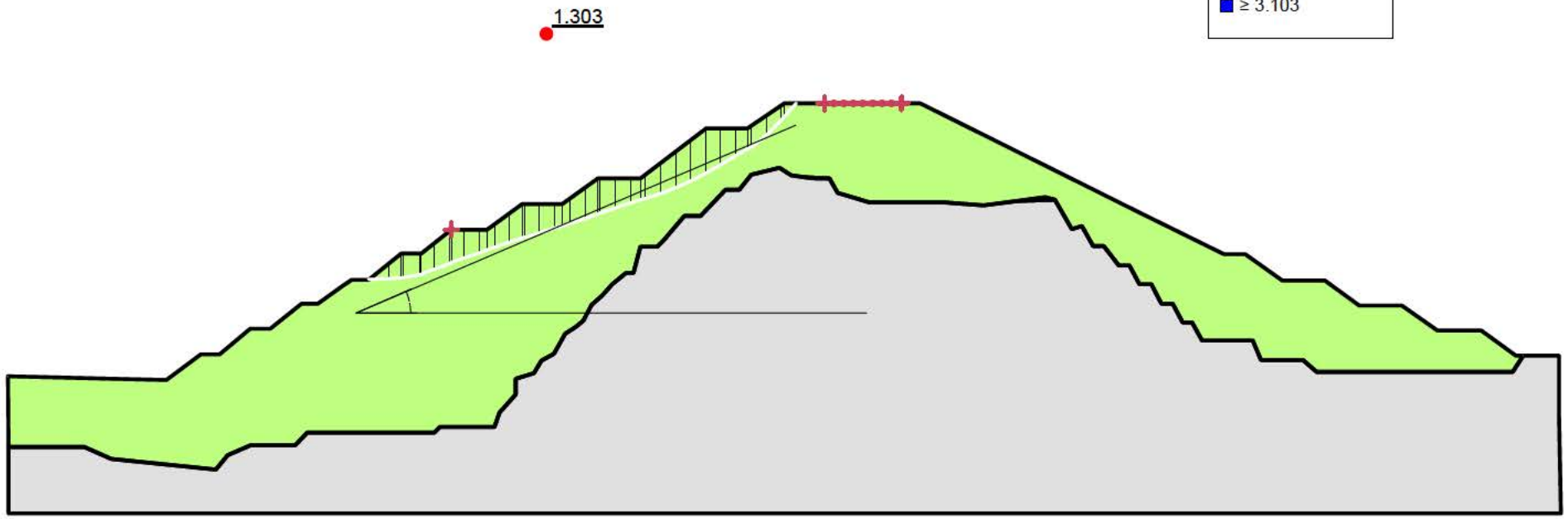
Analysis Parameters:

Method: Morgenstern-Price
Search Method: Entry and Exit
Direction of Movement: Right to Left
Unit Weight of Water: 9.807 kN/m³
Horz Seismic Coef.: 0.16
Factor of Safety: 1.303

PWP Conditions from: (none)

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Shear/Normal Strength Fn.
	Impenetrable	(None)		
	Zone C	Shear/Normal Fn.	21.5	1.29*Sigma^0.91

Factor of Safety
- 1.303 - 1.503
- 1.503 - 1.703
- 1.703 - 1.903
- 1.903 - 2.103
- 2.103 - 2.303
- 2.303 - 2.503
- 2.503 - 2.703
- 2.703 - 2.903
- 2.903 - 3.103
- ≥ 3.103



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A08) S5 Upstream ULS (1 in 500 Year - Seismic)

Stability Analysis

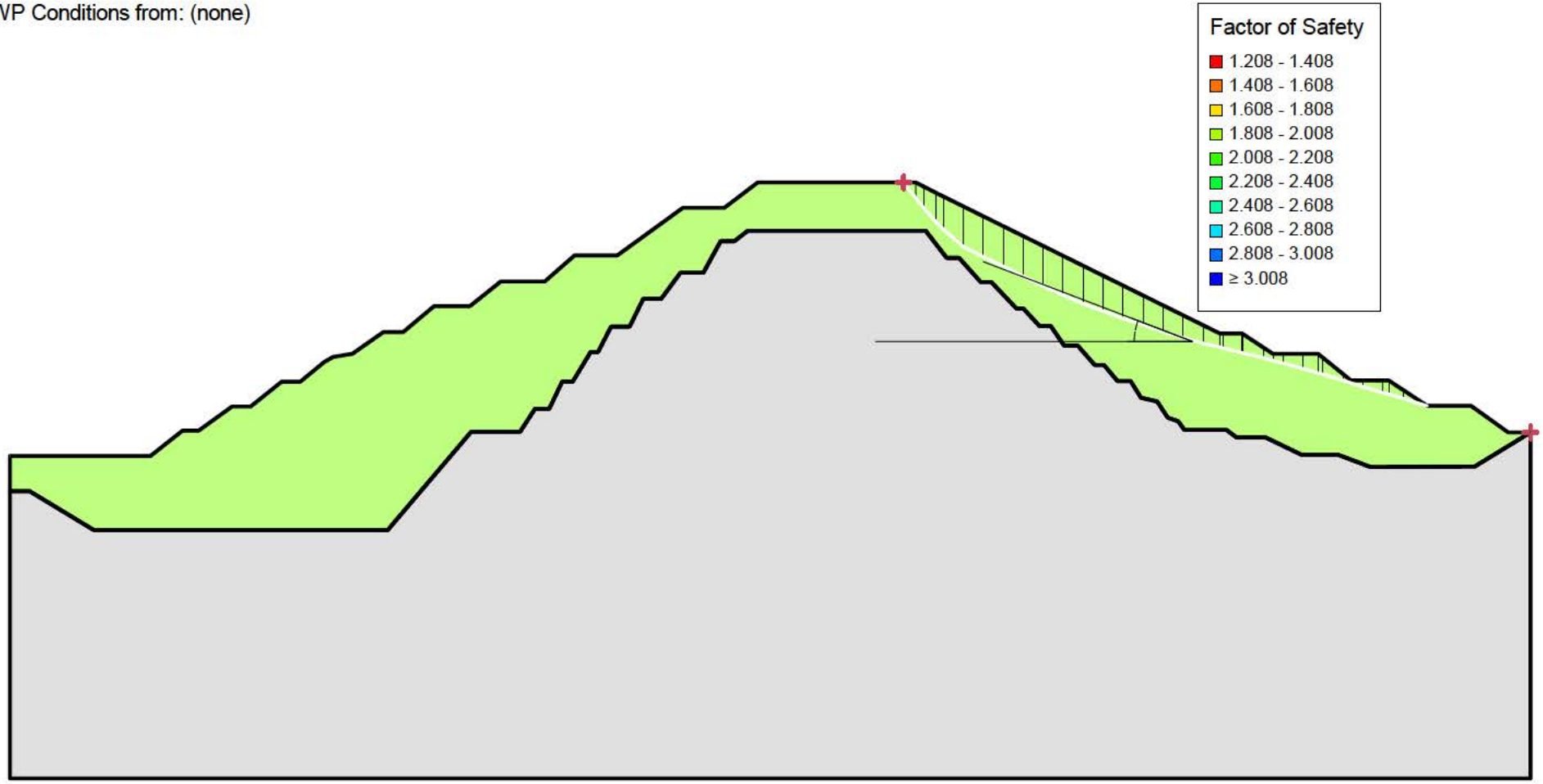
Date: 17/08/2026
Ref: 10092
Figure: 00
Scale: 1:5,000
Drawn: TO

Analysis Parameters:

Method: Morgenstern-Price
Search Method: Entry and Exit
Direction of Movement: Left to Right
Unit Weight of Water: 9.807 kN/m³
Horz Seismic Coef.: 0.16
Factor of Safety: 1.208

PWP Conditions from: (none)

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Shear/Normal Strength Fn.
	Impenetrable	(None)		
	Zone C	Shear/Normal Fn.	21.5	1.29*Sigma^0.91



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A09) S6 Downstream ULS (1 in 500 Year - Seismic)

Stability Analysis

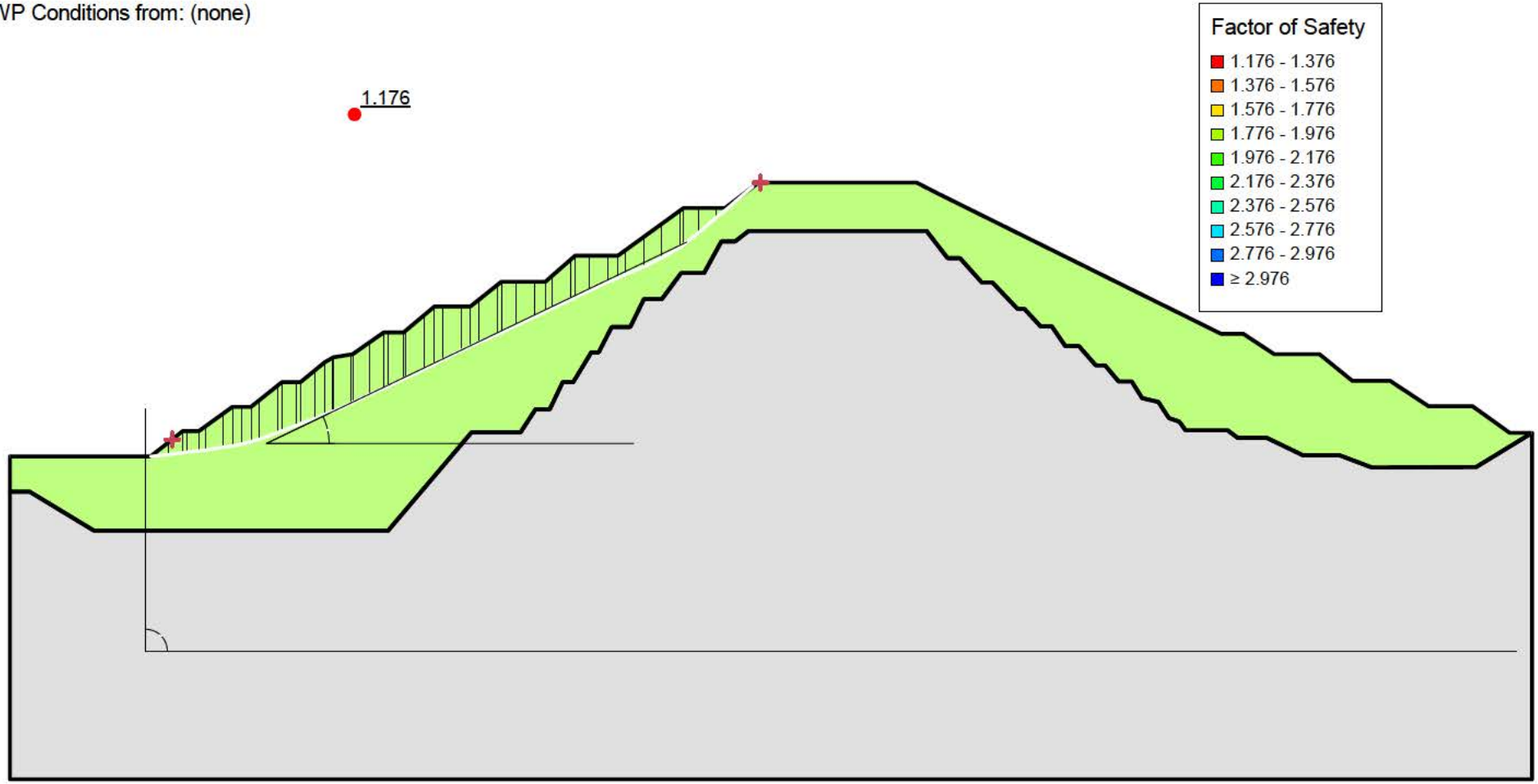
Date: 17/08/2026
Ref: 10092
Figure: 00
Scale: 1:5,000
Drawn: TO

Analysis Parameters:

Method: Morgenstern-Price
Search Method: Entry and Exit
Direction of Movement: Right to Left
Unit Weight of Water: 9.807 kN/m³
Horz Seismic Coef.: 0.16
Factor of Safety: 1.176

PWP Conditions from: (none)

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Shear/Normal Strength Fn.
	Impenetrable	(None)		
	Zone C	Shear/Normal Fn.	21.5	1.29*Sigma^0.91



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A10) S6 Upstream ULS (1 in 500 Year - Seismic)

Stability Analysis

Date: 17/08/2026
Ref: 10092
Figure: 00
Scale: 1:5,000
Drawn: TO

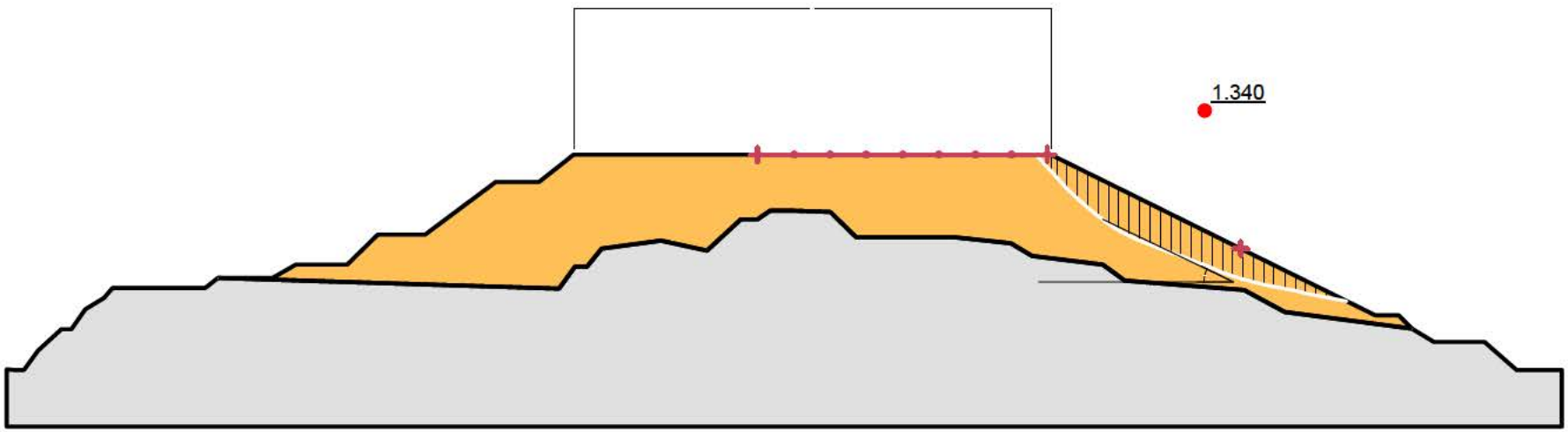
Analysis Parameters:

Method: Morgenstern-Price
Search Method: Entry and Exit
Direction of Movement: Left to Right
Unit Weight of Water: 9.807 kN/m³
Horz Seismic Coef.: 0
Factor of Safety: 1.340

PWP Conditions from: (none)

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Shear/Normal Strength Fn.
	Impenetrable	(None)		
	Zone C (80%)	Shear/Normal Fn.	20	1.032*Sigma^0.91

Factor of Safety
- 1.340 - 1.540
- 1.540 - 1.740
- 1.740 - 1.940
- 1.940 - 2.140
- 2.140 - 2.340
- 2.340 - 2.540
- 2.540 - 2.740
- 2.740 - 2.940
- 2.940 - 3.140
- ≥ 3.140



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A11) S2 Downstream ULS (1 in 500 Year - Post EQ - Residual)

Stability Analysis

Date: 17/08/2026
Ref: 10092
Figure: 00
Scale: 1:5,000
Drawn: TO

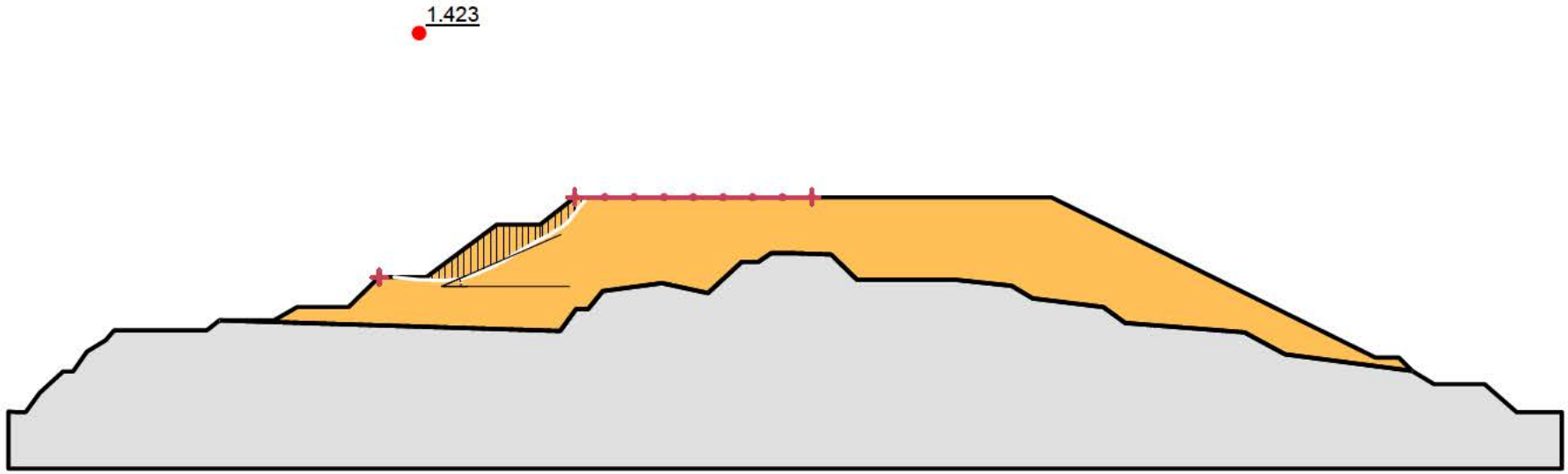
Analysis Parameters:

Method: Morgenstern-Price
Search Method: Entry and Exit
Direction of Movement: Right to Left
Unit Weight of Water: 9.807 kN/m³
Horz Seismic Coef.: 0
Factor of Safety: 1.423

PWP Conditions from: (none)

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Shear/Normal Strength Fn.
	Impenetrable	(None)		
	Zone C (80%)	Shear/Normal Fn.	20	1.032*Sigma^0.91

Factor of Safety
- 1.423 - 1.623
- 1.623 - 1.823
- 1.823 - 2.023
- 2.023 - 2.223
- 2.223 - 2.423
- 2.423 - 2.623
- 2.623 - 2.823
- 2.823 - 3.023
- 3.023 - 3.223
- ≥ 3.223



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A12) S2 Upstream ULS (1 in 500 Year - Post EQ - Residual)

Stability Analysis

Date: 17/08/2026
Ref: 10092
Figure: 00
Scale: 1:5,000
Drawn: TO

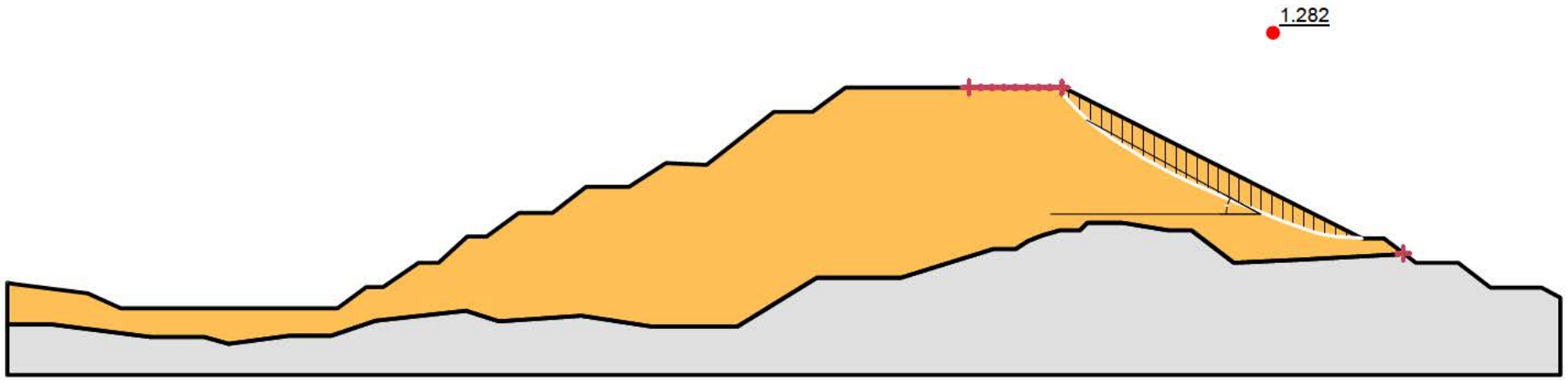
Analysis Parameters:

Method: Morgenstern-Price
Search Method: Entry and Exit
Direction of Movement: Left to Right
Unit Weight of Water: 9.807 kN/m³
Horz Seismic Coef.: 0
Factor of Safety: 1.282

PWP Conditions from: (none)

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Shear/Normal Strength Fn.
	Impenetrable	(None)		
	Zone C (80%)	Shear/Normal Fn.	20	1.032*Sigma^0.91

Factor of Safety
- 1.282 - 1.482
- 1.482 - 1.682
- 1.682 - 1.882
- 1.882 - 2.082
- 2.082 - 2.282
- 2.282 - 2.482
- 2.482 - 2.682
- 2.682 - 2.882
- 2.882 - 3.082
- ≥ 3.082



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A13) S3 Downstream ULS (1 in 500 Year - Post EQ - Residual)

Stability Analysis

Date: 17/08/2026
Ref: 10092
Figure: 00
Scale: 1:5,000
Drawn: TO

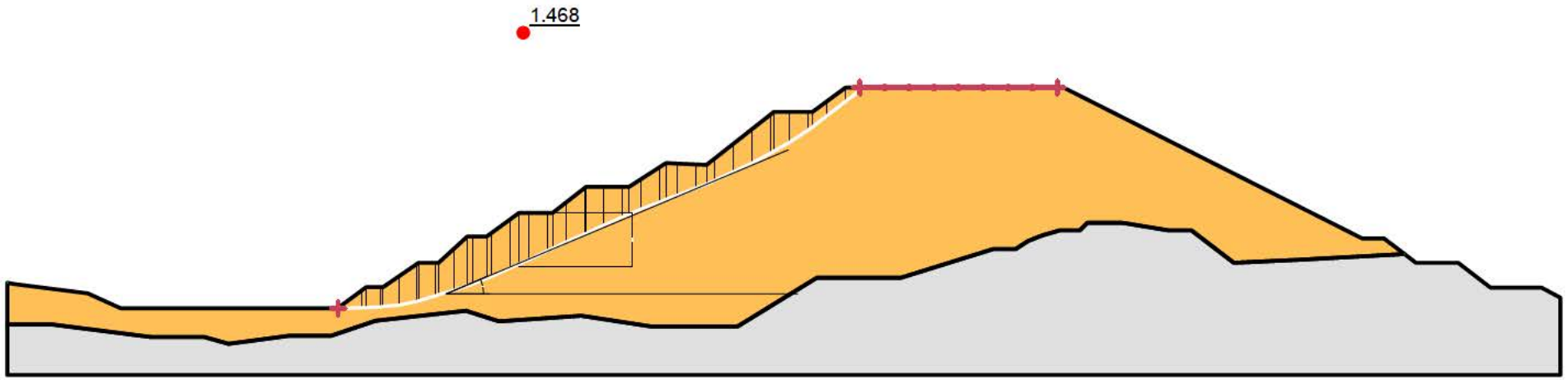
Analysis Parameters:

Method: Morgenstern-Price
Search Method: Entry and Exit
Direction of Movement: Right to Left
Unit Weight of Water: 9.807 kN/m³
Horz Seismic Coef.: 0
Factor of Safety: 1.468

PWP Conditions from: (none)

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Shear/Normal Strength Fn.
	Impenetrable	(None)		
	Zone C (80%)	Shear/Normal Fn.	20	1.032*Sigma^0.91

Factor of Safety
- 1.468 - 1.668
- 1.668 - 1.868
- 1.868 - 2.068
- 2.068 - 2.268
- 2.268 - 2.468
- 2.468 - 2.668
- 2.668 - 2.868
- 2.868 - 3.068
- 3.068 - 3.268
- ≥ 3.268



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A14) S3 Upstream ULS (1 in 500 Year - Post EQ - Residual)

Stability Analysis

Date: 17/08/2026
Ref: 10092
Figure: 00
Scale: 1:5,000
Drawn: TO

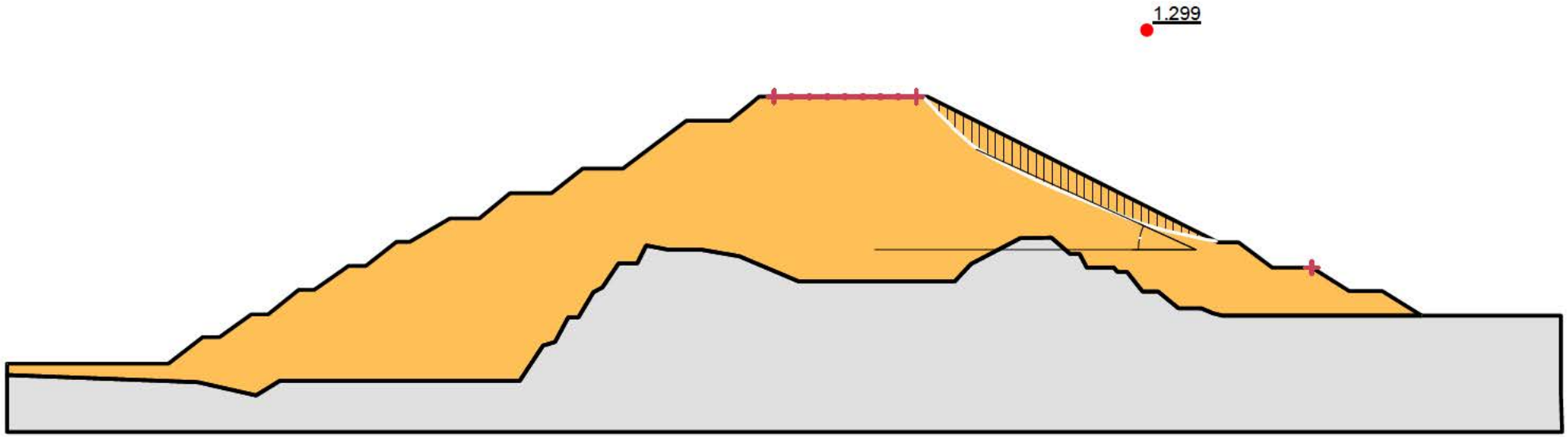
Analysis Parameters:

Method: Morgenstern-Price
Search Method: Entry and Exit
Direction of Movement: Left to Right
Unit Weight of Water: 9.807 kN/m³
Horz Seismic Coef.: 0
Factor of Safety: 1.299

PWP Conditions from: (none)

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Shear/Normal Strength Fn.
	Impenetrable	(None)		
	Zone C (80%)	Shear/Normal Fn.	20	1.032*Sigma^0.91

Factor of Safety
- 1.299 - 1.499
- 1.499 - 1.699
- 1.699 - 1.899
- 1.899 - 2.099
- 2.099 - 2.299
- 2.299 - 2.499
- 2.499 - 2.699
- 2.699 - 2.899
- 2.899 - 3.099
- ≥ 3.099



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A15) S4 Downstream ULS (1 in 500 Year - Post EQ - Residual)

Stability Analysis

Date: 17/08/2026
Ref: 10092
Figure: 00
Scale: 1:5,000
Drawn: TO

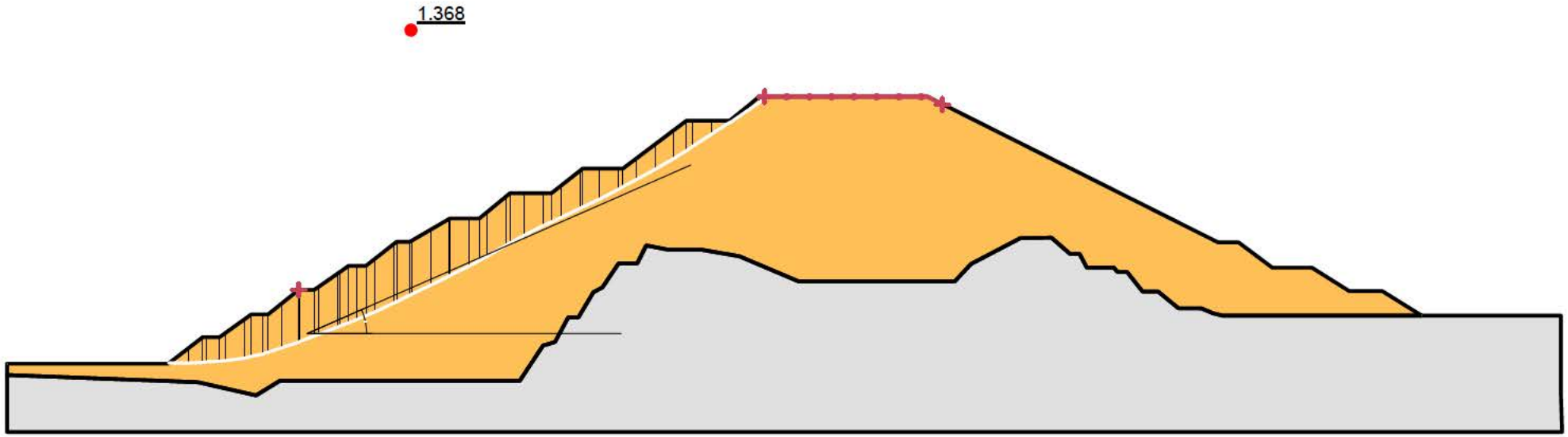
Analysis Parameters:

Method: Morgenstern-Price
Search Method: Entry and Exit
Direction of Movement: Right to Left
Unit Weight of Water: 9.807 kN/m³
Horz Seismic Coef.: 0
Factor of Safety: 1.368

PWP Conditions from: (none)

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Shear/Normal Strength Fn.
	Impenetrable	(None)		
	Zone C (80%)	Shear/Normal Fn.	20	1.032*Sigma^0.91

Factor of Safety
- 1.368 - 1.568
- 1.568 - 1.768
- 1.768 - 1.968
- 1.968 - 2.168
- 2.168 - 2.368
- 2.368 - 2.568
- 2.568 - 2.768
- 2.768 - 2.968
- 2.968 - 3.168
- ≥ 3.168



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A16) S4 Upstream ULS (1 in 500 Year - Post EQ - Residual)

Stability Analysis

Date: 17/08/2026
Ref: 10092
Figure: 00
Scale: 1:5,000
Drawn: TO

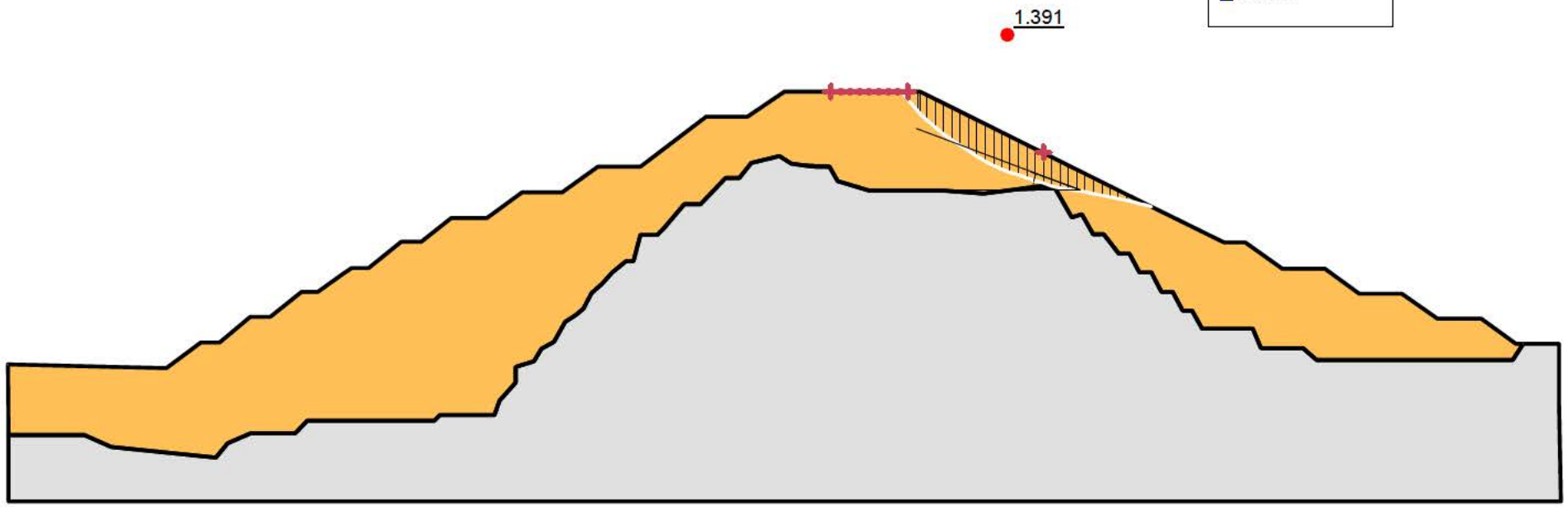
Analysis Parameters:

Method: Morgenstern-Price
Search Method: Entry and Exit
Direction of Movement: Left to Right
Unit Weight of Water: 9.807 kN/m³
Horz Seismic Coef.: 0
Factor of Safety: 1.391

PWP Conditions from: (none)

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Shear/Normal Strength Fn.
	Impenetrable	(None)		
	Zone C	Shear/Normal Fn.	21.5	1.29*Sigma^0.91
	Zone C (80%)	Shear/Normal Fn.	20	1.032*Sigma^0.91

Factor of Safety
- 1.391 - 1.591
- 1.591 - 1.791
- 1.791 - 1.991
- 1.991 - 2.191
- 2.191 - 2.391
- 2.391 - 2.591
- 2.591 - 2.791
- 2.791 - 2.991
- 2.991 - 3.191
- ≥ 3.191



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A17) S5 Downstream ULS (1 in 500 Year - Post EQ - Residual)

Stability Analysis

Date: 17/08/2026
Ref: 10092
Figure: 00
Scale: 1:5,000
Drawn: TO

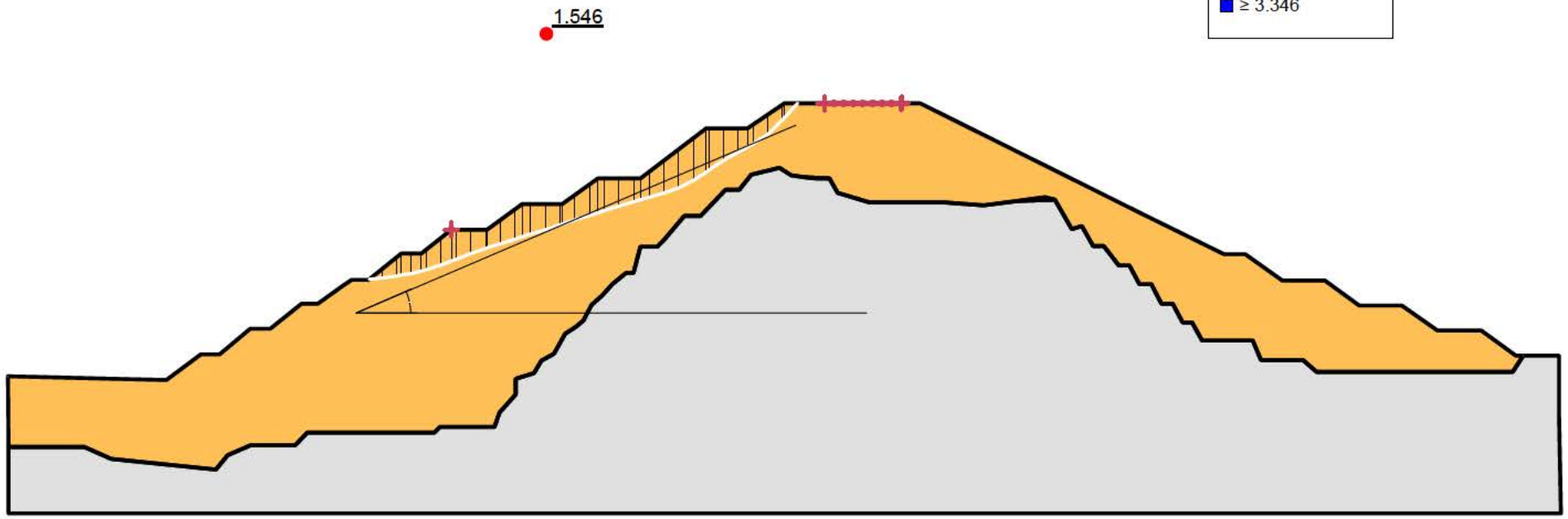
Analysis Parameters:

Method: Morgenstern-Price
Search Method: Entry and Exit
Direction of Movement: Right to Left
Unit Weight of Water: 9.807 kN/m³
Horz Seismic Coef.: 0
Factor of Safety: 1.546

PWP Conditions from: (none)

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Shear/Normal Strength Fn.
	Impenetrable	(None)		
	Zone C	Shear/Normal Fn.	21.5	1.29*Sigma^0.91
	Zone C (80%)	Shear/Normal Fn.	20	1.032*Sigma^0.91

Factor of Safety
- 1.546 - 1.746
- 1.746 - 1.946
- 1.946 - 2.146
- 2.146 - 2.346
- 2.346 - 2.546
- 2.546 - 2.746
- 2.746 - 2.946
- 2.946 - 3.146
- 3.146 - 3.346
- ≥ 3.346



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A18) S5 Upstream ULS (1 in 500 Year - Post EQ - Residual)

Stability Analysis

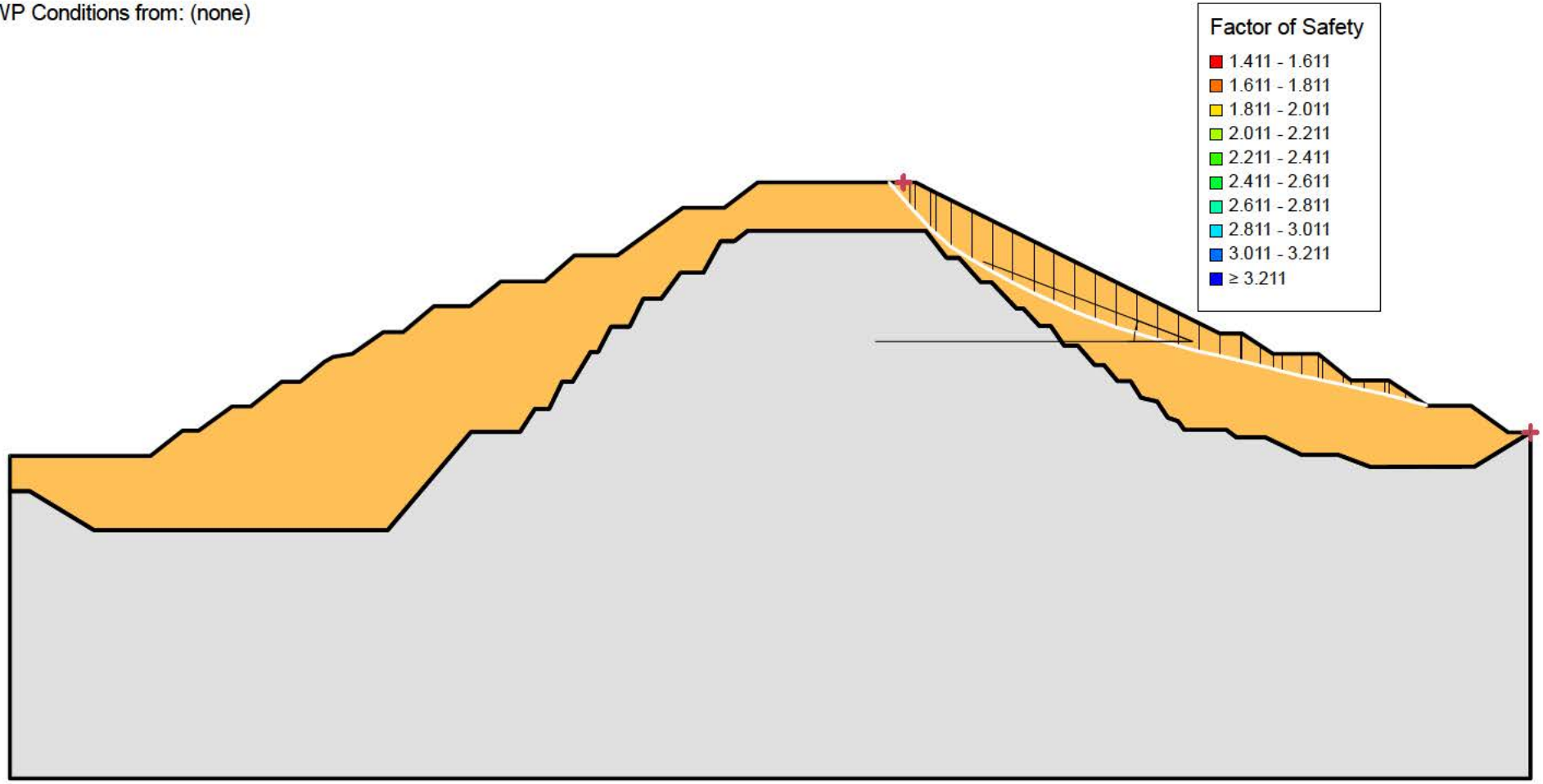
Date: 17/08/2026
Ref: 10092
Figure: 00
Scale: 1:5,000
Drawn: TO

Analysis Parameters:

Method: Morgenstern-Price
Search Method: Entry and Exit
Direction of Movement: Left to Right
Unit Weight of Water: 9.807 kN/m³
Horz Seismic Coef.: 0
Factor of Safety: 1.411

PWP Conditions from: (none)

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Shear/Normal Strength Fn.
	Impenetrable	(None)		
	Zone C (80%)	Shear/Normal Fn.	20	1.032*Sigma^0.91



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A19) S6 Downstream ULS (1 in 500 Year - Post EQ - Residual)

Stability Analysis

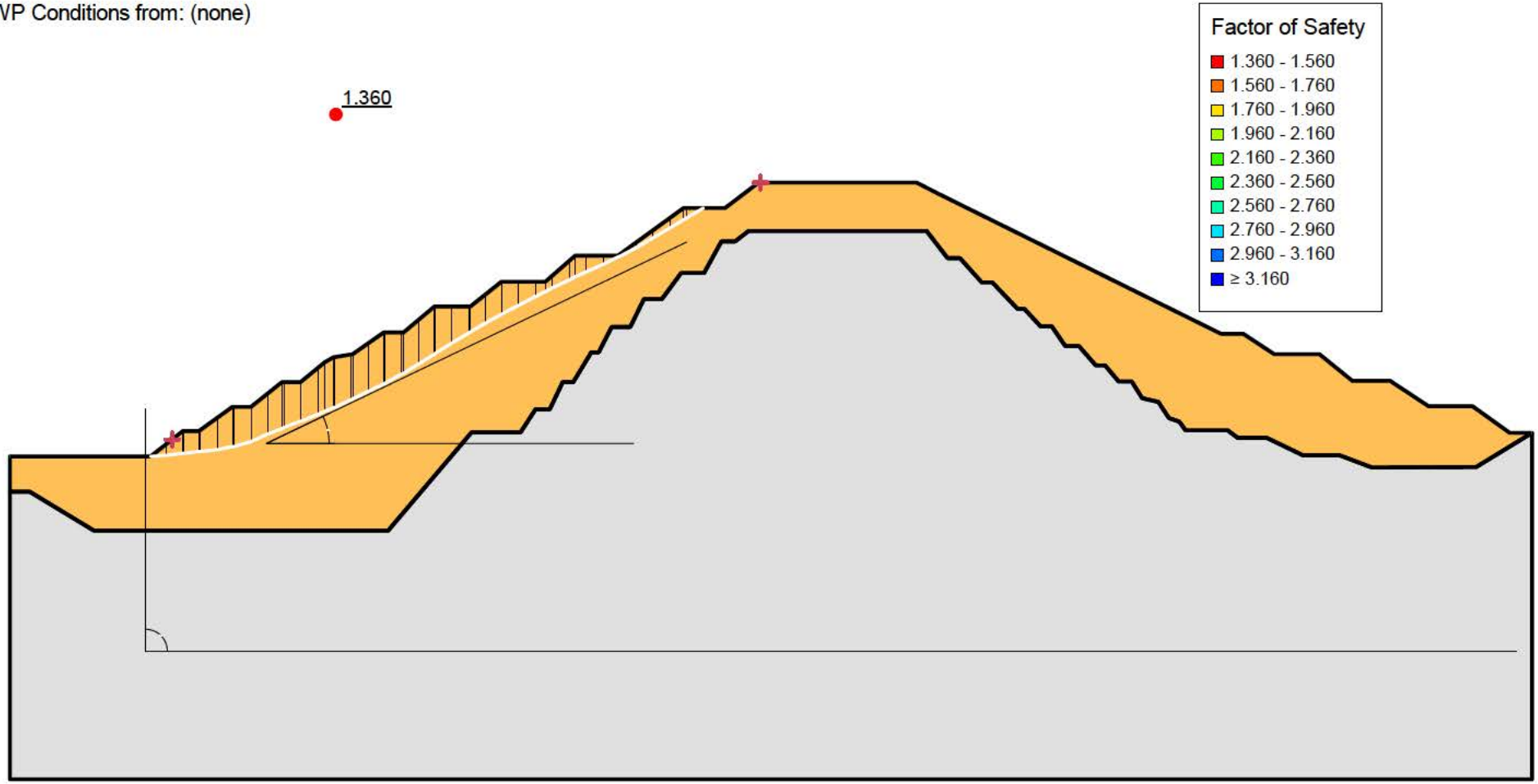
Date: 17/08/2026
Ref: 10092
Figure: 00
Scale: 1:5,000
Drawn: TO

Analysis Parameters:

Method: Morgenstern-Price
Search Method: Entry and Exit
Direction of Movement: Right to Left
Unit Weight of Water: 9.807 kN/m³
Horz Seismic Coef.: 0
Factor of Safety: 1.360

PWP Conditions from: (none)

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Shear/Normal Strength Fn.
	Impenetrable	(None)		
	Zone C (80%)	Shear/Normal Fn.	20	1.032*Sigma^0.91



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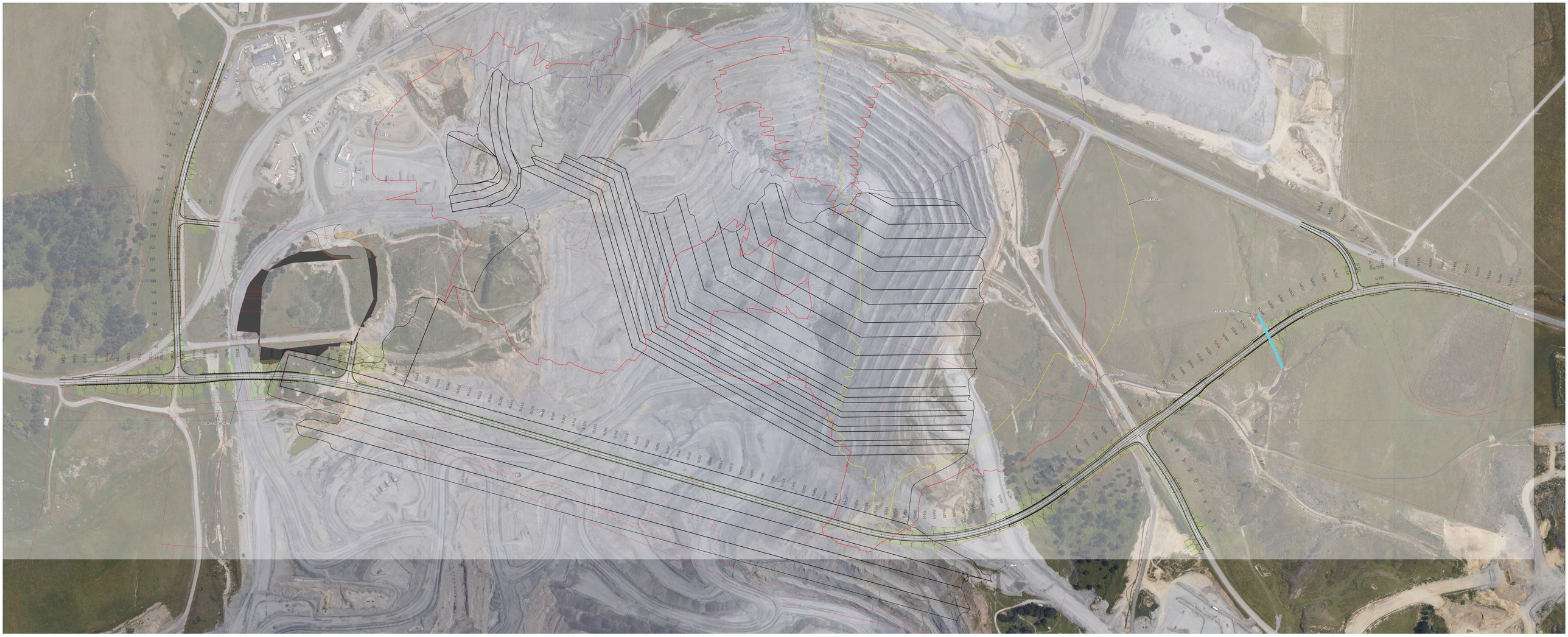
A20) S6 Upstream ULS (1 in 500 Year - Post EQ - Residual)

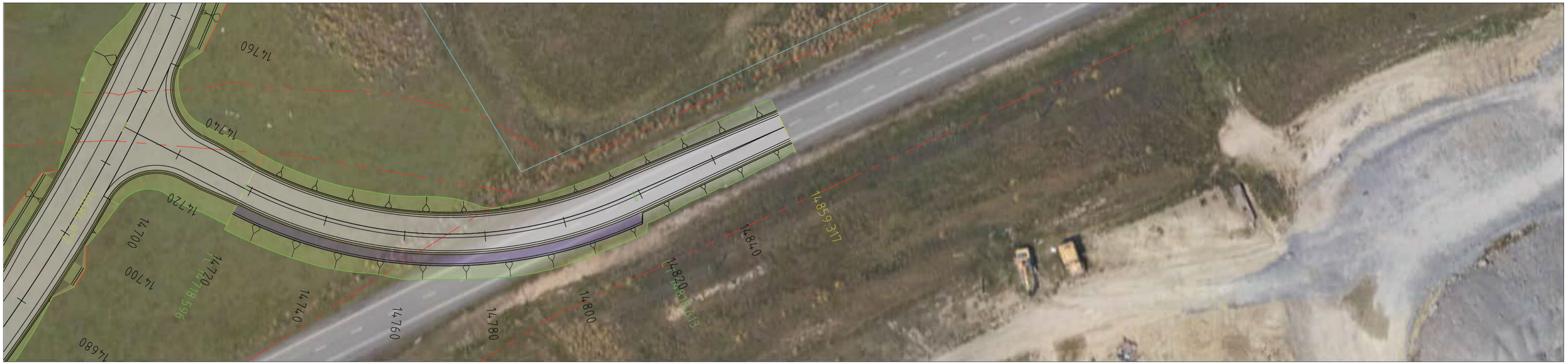
Stability Analysis

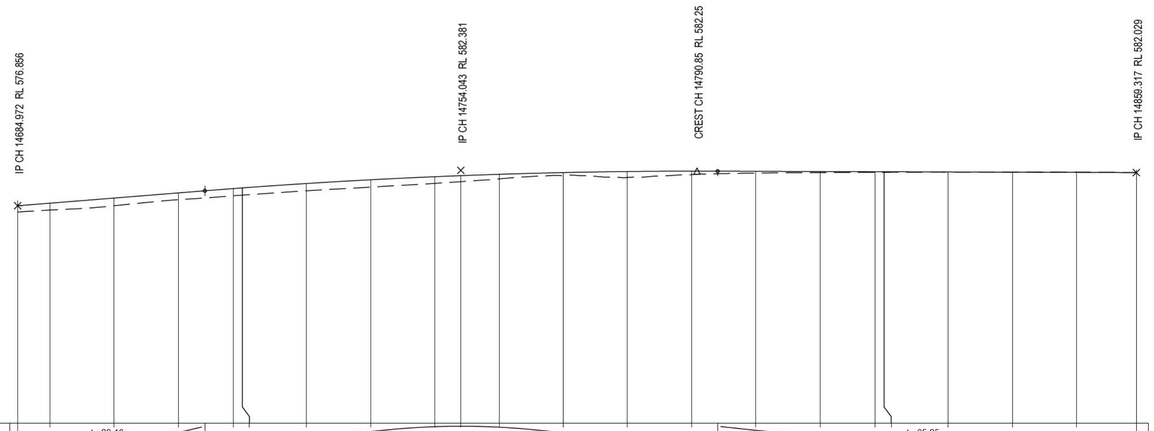
Date: 17/08/2026
Ref: 10092
Figure: 00
Scale: 1:5,000
Drawn: TO

Appendix B
Proposed Macraes Road Alignment



T2D Model
Scale 1:1000
Wed May 13 09:09:01 2026





DATUM RL. 543.00

VERTICAL ALIGNMENT	L=29.18m G=8%				K=9.62 L=79.92m											L=65.25m G=-0.33%						
HORIZONTAL ALIGNMENT	L=33.62m				L=100.02m R=-110m											L=40.7m						
LEVEL DIFFERENCE CUT - / FILL +	0.98	1.07	1.20	1.06	1.12	1.12	1.14	1.14	1.04	0.94	0.71	0.46	0.93	0.55	0.29	0.17	0.09	0.08	0.02	-0.02	-0.03	-0.01
DESIGN SURFACE LEVEL	576.856	577.258	578.058	578.858	579.535	579.64	580.326	580.908	581.385	581.548	581.758	582.027	582.192	582.252	582.228	582.194	582.165	582.161	582.127	582.094	582.06	582.029
EXISTING SURFACE LEVEL	575.87	576.19	576.86	577.80	578.42	578.52	579.19	579.76	580.35	580.61	581.04	581.56	581.27	581.70	581.94	582.02	582.07	582.08	582.11	582.11	582.09	582.04
CHAINAGE	14684.97	14690	14700	14710	14718.6	14720	14730	14740	14750	14754.04	14760	14770	14780	14790	14800	14810	14818.61	14820	14830	14840	14850	14859.32
SUPER ELEVATION	RHS 6%																			LHS -3%		
	LHS -6%																					

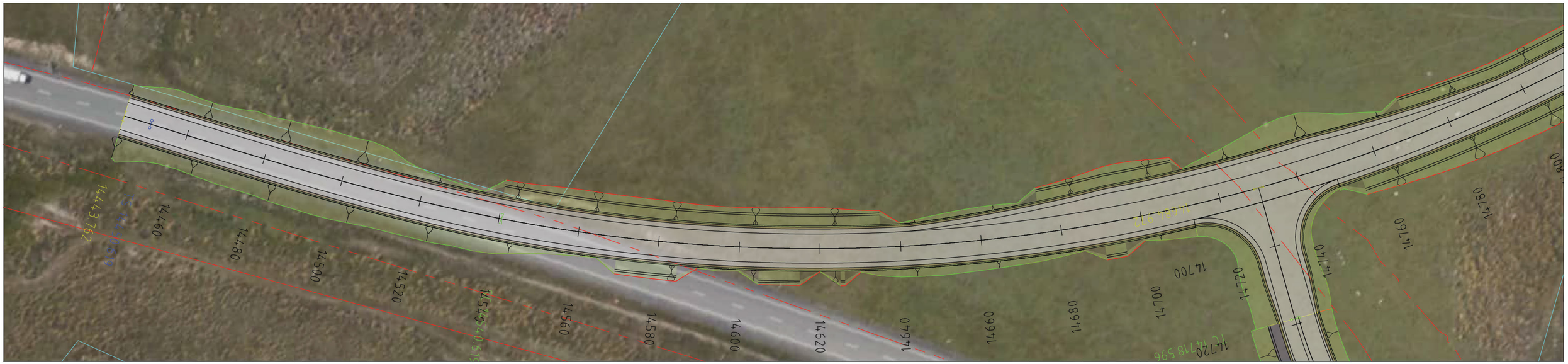
14719 14818 14839 14858.8 14859.3

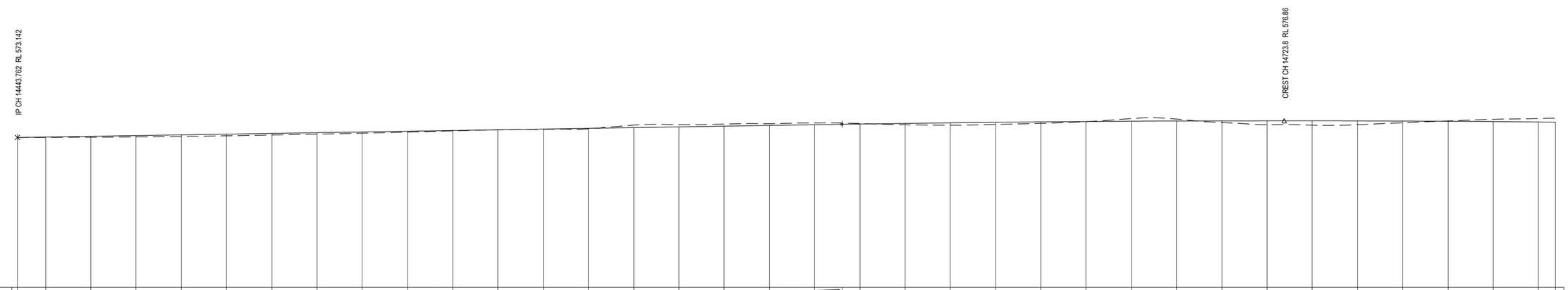
LONGITUDINAL SECTION - ROAD03

HORZ 1:500 VERT 1:500

LONGITUDINAL SECTION

12d Model
Horizontal Scale 1:500
Vertical Scale 1:500
13-May-2026 09:03:05





DATUM RL. 540.00

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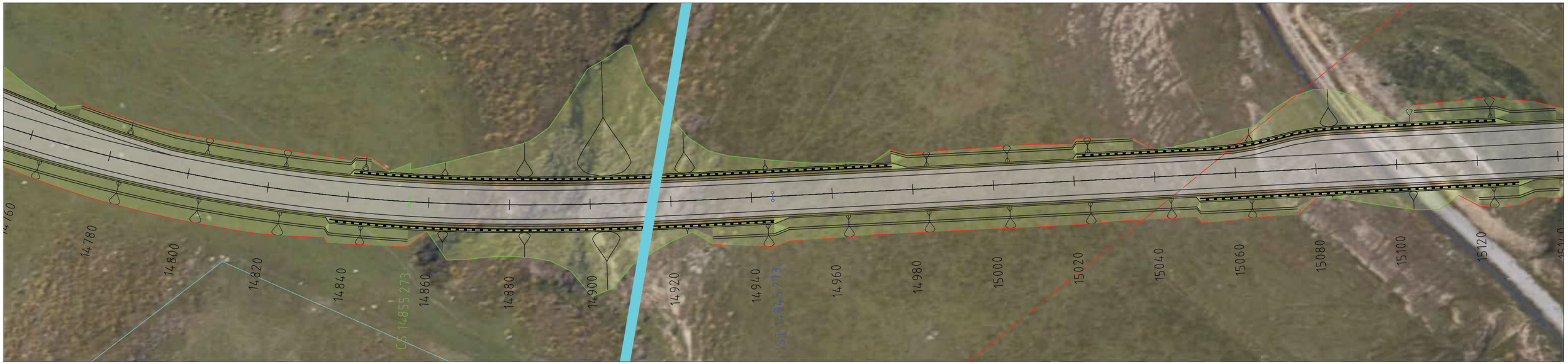
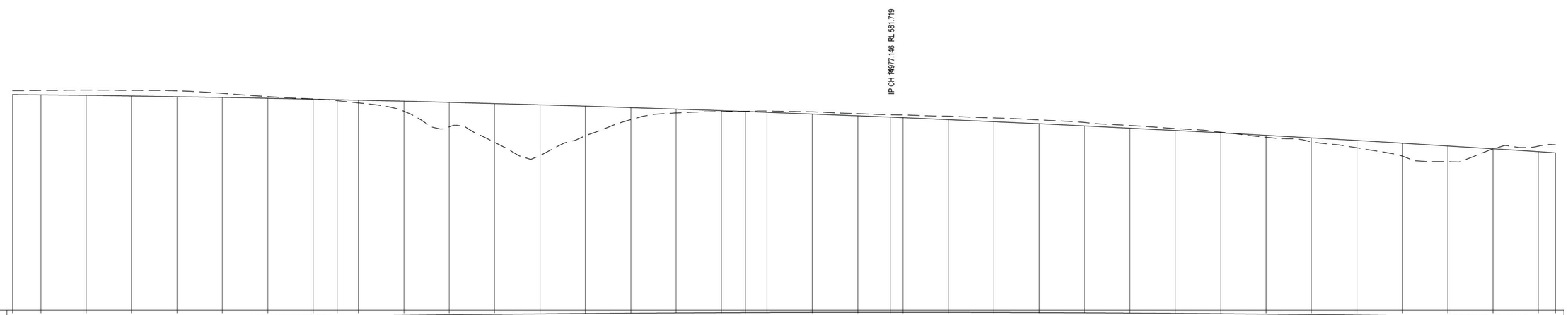




DATUM RL. 529.00

VERTICAL ALIGNMENT	K=60.8 L=702.22m
HORIZONTAL ALIGNMENT	L=314.65m R=-410m; L=408.28m
LEVEL DIFFERENCE CUT - / FILL +	-0.84 -0.94 -1.15 -1.22 -1.26 -0.89 -0.36 -0.05 0.23 0.63 2.22 5.42 8.60 11.20 6.56 2.67 0.86 0.23 -0.06 -0.26 -0.47 -0.47 -0.51 -0.59 -0.75 -0.82 -0.83 -0.75 -0.58 -0.41 -0.15 0.43 0.90 1.62 2.86 3.49 0.07 -1.22 -1.76
DESIGN SURFACE LEVEL	576.563 576.498 576.381 576.248 576.098 575.931 575.748 575.549 575.437 575.333 575.101 574.852 574.587 574.306 574.008 573.693 573.382 573.015 572.825 572.651 572.271 571.874 571.581 571.461 571.031 570.585 570.123 569.644 569.148 568.637 568.108 567.564 567.002 566.425 565.831 565.22 564.593 563.95 563.703
EXISTING SURFACE LEVEL	577.40 577.44 577.53 577.46 577.36 576.82 576.11 575.60 575.21 574.71 572.88 569.44 565.99 563.10 567.45 571.02 572.50 572.78 572.88 572.91 572.74 572.34 572.09 572.05 571.78 571.40 570.96 570.39 569.72 569.04 568.25 567.13 566.10 564.80 562.97 561.73 564.52 565.16 565.46
CHAINAGE	14783.76 14790 14800 14810 14820 14830 14840 14850 14855.27 14860 14870 14880 14890 14900 14910 14920 14930 14940 14945.27 14950 14960 14970 14977.15 14980 14990 15000 15010 15020 15030 15040 15050 15060 15070 15080 15090 15100 15110 15120 15123.76
SUPER ELEVATION	RHS 8%; LHS -8%; LHS -3%; RHS -3%

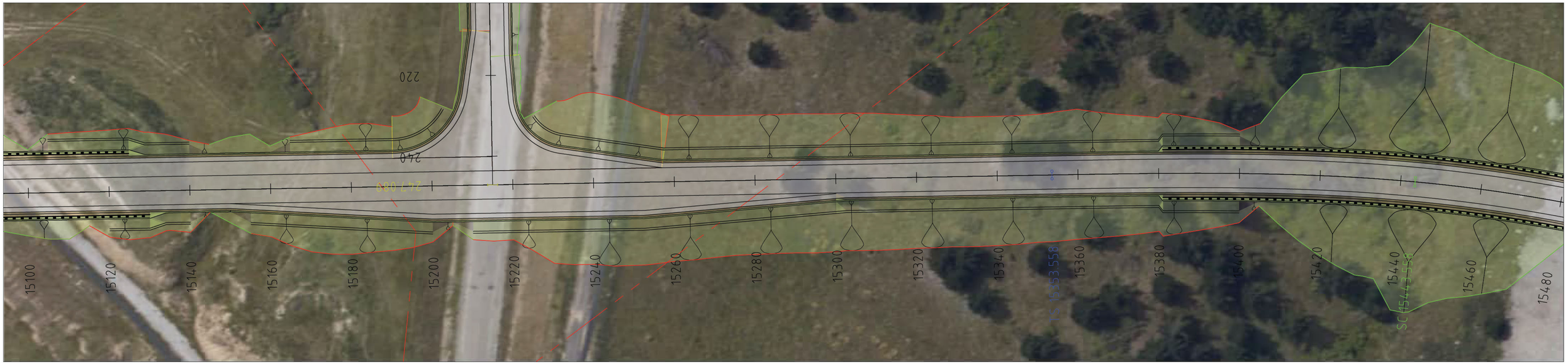
14783.8 14854.8 14911.8 14945.3 14979.8 15123.8

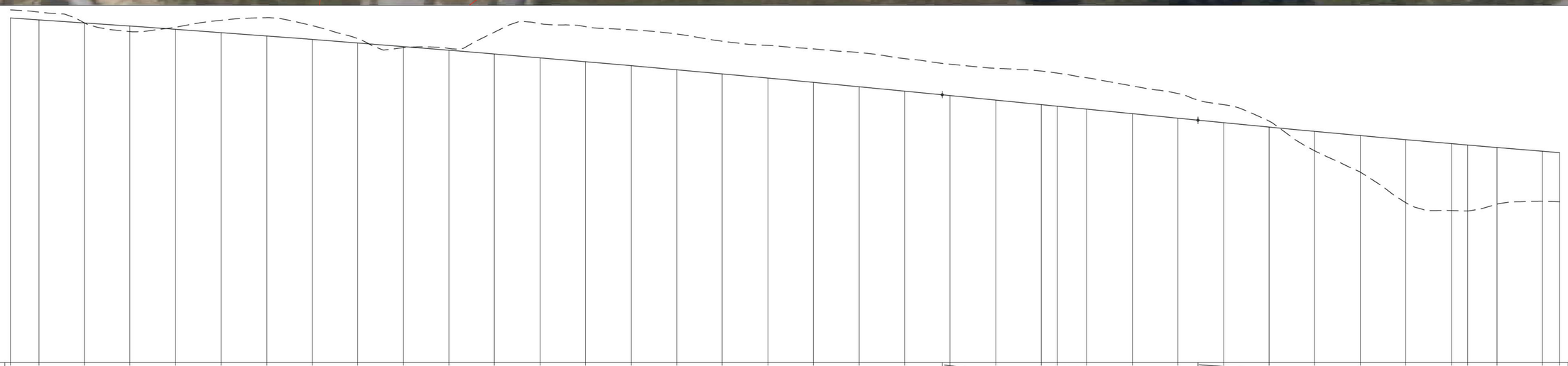
LONGITUDINAL SECTION - ROAD04

HORZ 1:500 VERT 1:500

LONGITUDINAL SECTION

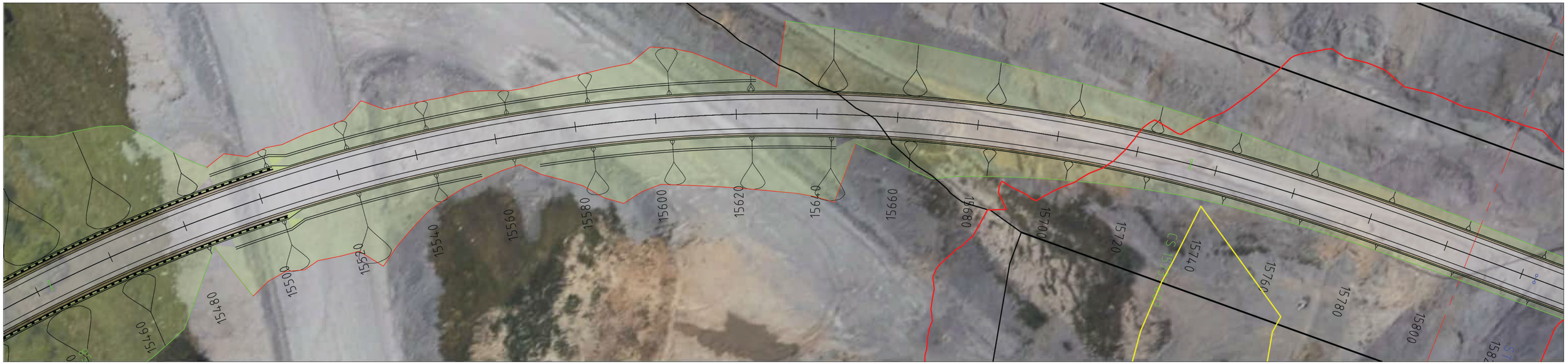
12d Model
Horizontal Scale 1:500
Vertical Scale 1:500
13-May-2026 09:03:14

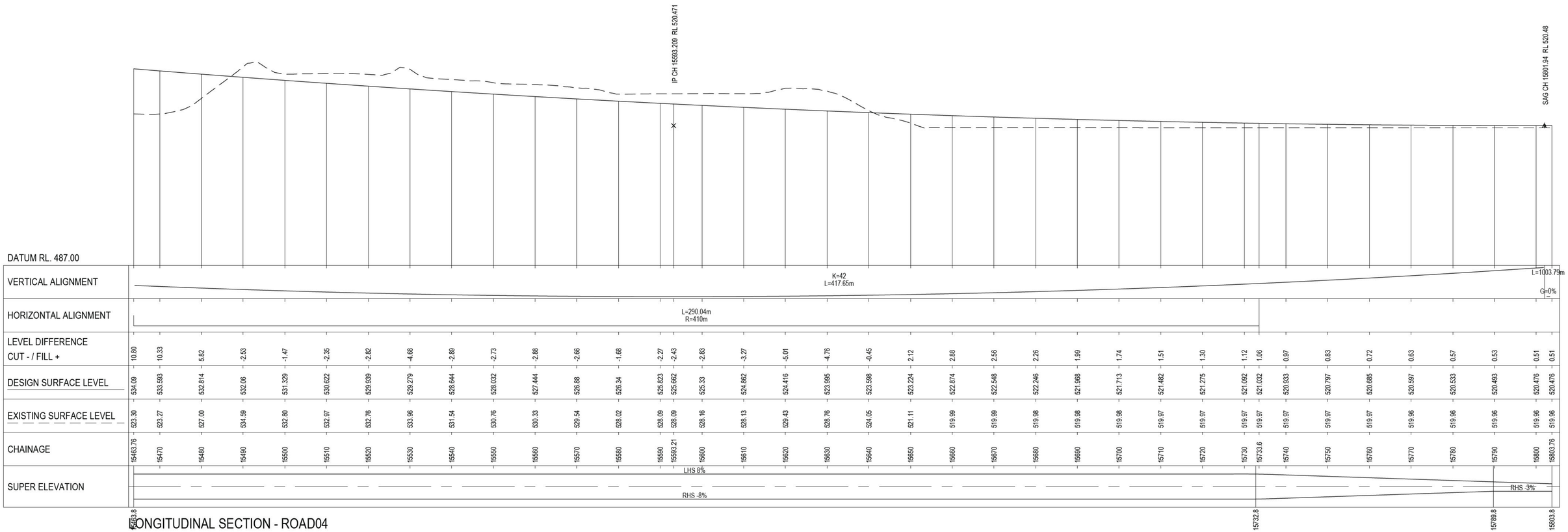




DATUM RL. 488.00

| | | |



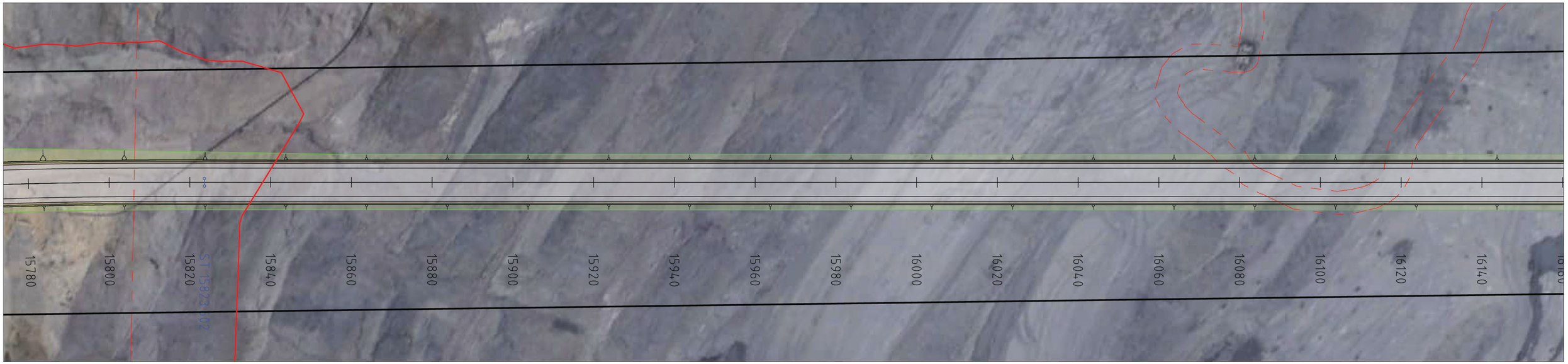


LONGITUDINAL SECTION - ROAD04

HORZ 1:500 VERT 1:500

LONGITUDINAL SECTION

12d Model
Horizontal Scale 1:500
Vertical Scale 1:500
13-May-2026 09:03:23



DATUM RL. 487.00

VERTICAL ALIGNMENT	L=1003.79m; G=0%
HORIZONTAL ALIGNMENT	L=841.68m
LEVEL DIFFERENCE CUT - / FILL +	0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52
DESIGN SURFACE LEVEL	520.476 520.476 520.476 520.476 520.476 520.477 520.477 520.477 520.477 520.478 520.478 520.478 520.478 520.479 520.479 520.479 520.479 520.479 520.48 520.48 520.48 520.48 520.481 520.481 520.481 520.481 520.482 520.482 520.482 520.482 520.482 520.483 520.483 520.483 520.483 520.484 520.484
EXISTING SURFACE LEVEL	519.96 519.97 519.97 519.97 519.97 519.97 519.97 519.97 519.97 519.97 519.97 519.97 519.97 519.97 519.97 519.97 519.97
CHAINAGE	15803.76 15810 15820 15823.6 15830 15840 15850 15860 15870 15880 15890 15900 15910 15920 15930 15940 15950 15960 15970 15980 15990 16000 16010 16020 16030 16040 16050 16060 16070 16080 16090 16100 16110 16120 16130 16140 16143.76
SUPER ELEVATION	RHS -3%; LHS and RHS -3%

15803.8 15823.6 15857.8 16143.8

LONGITUDINAL SECTION - ROAD04

HORZ 1:500 VERT 1:500

LONGITUDINAL SECTION

12d Model
Horizontal Scale 1:500
Vertical Scale 1:500
13-May-2026 09:03:27

DATUM RL. 487.00

VERTICAL ALIGNMENT	L=1003.79m G=0%
HORIZONTAL ALIGNMENT	L=841.68m
LEVEL DIFFERENCE CUT - / FILL +	0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51
DESIGN SURFACE LEVEL	520.484 520.484 520.484 520.484 520.485 520.485 520.485 520.485 520.485 520.486 520.486 520.486 520.486 520.487 520.487 520.487 520.487 520.487 520.488 520.488 520.488 520.488 520.488 520.489 520.489 520.489 520.489 520.49 520.49 520.49 520.49 520.491 520.491 520.491 520.491 520.491 520.491 520.492
EXISTING SURFACE LEVEL	519.97 519.97 519.97 519.97 519.97 519.97 519.97 519.97 519.97 519.97 519.97 519.97 519.97 519.97 519.97 519.97 519.97 519.98 519.99
CHAINAGE	16143.76 16150 16160 16170 16180 16190 16200 16210 16220 16230 16240 16250 16260 16270 16280 16290 16300 16310 16320 16330 16340 16350 16360 16370 16380 16390 16400 16410 16420 16430 16440 16450 16460 16470 16480 16483.76
SUPER ELEVATION	LHS and RHS -3%

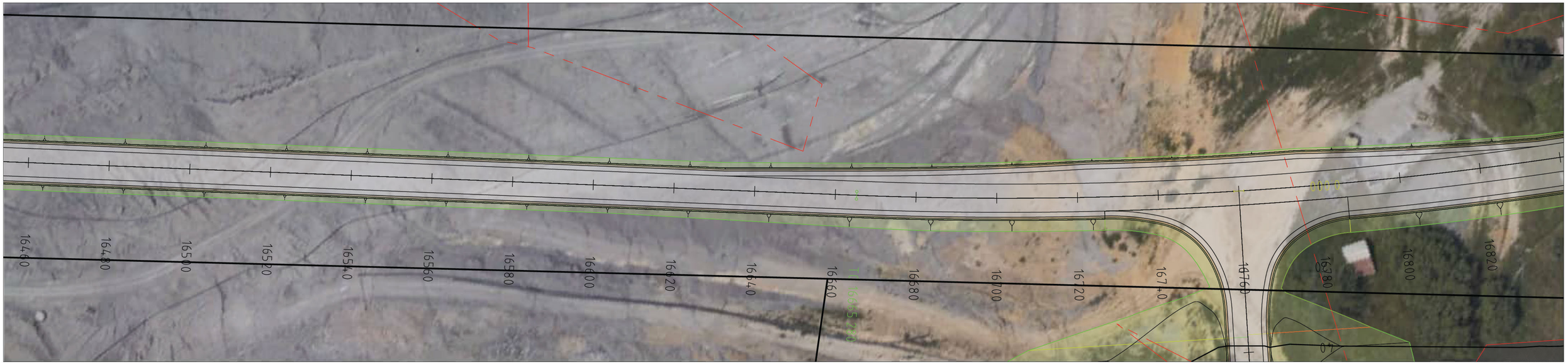
16143.8 16483.8

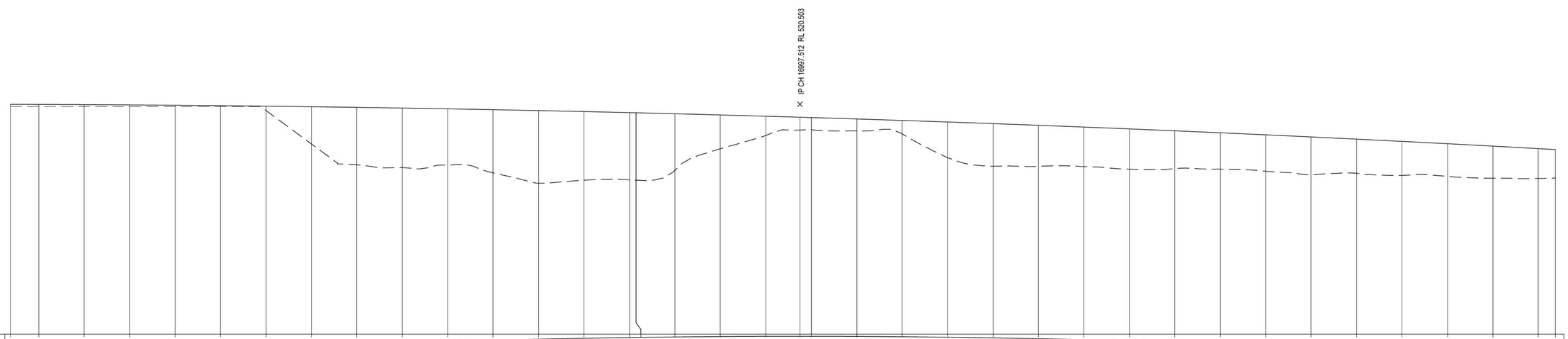
LONGITUDINAL SECTION - ROAD04

HORZ 1:500 VERT 1:500

LONGITUDINAL SECTION

12d Model
Horizontal Scale 1:500
Vertical Scale 1:500
13-May-2026 09:03:31


16400
16440
16480
16520
16560
16600
16640
16680
16720
16760
16800
16820
16660
16665.28
16665.28
16665.28



DATUM RL. 470.00

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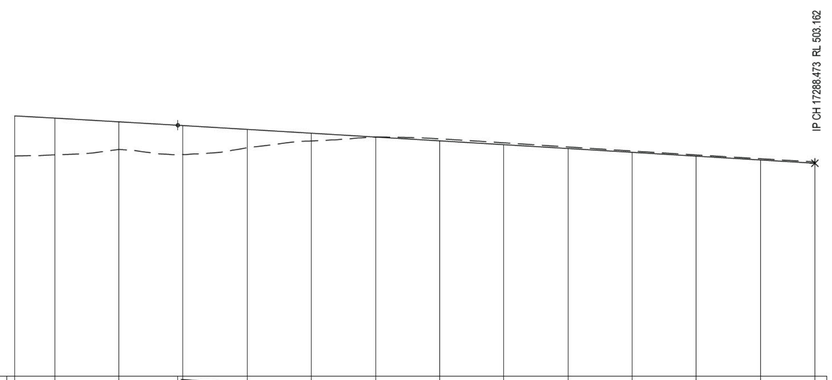


DATUM RL. 470.00

VERTICAL ALIGNMENT	K=64.3 L=383.38m							L=99.27m G=-5.96%						
HORIZONTAL ALIGNMENT	L=327.04m													
LEVEL DIFFERENCE CUT - / FILL +	6.25	5.72	4.32	4.51	2.87	1.21	0.01	-0.32	-0.29	-0.24	-0.21	-0.19	-0.20	-0.21
DESIGN SURFACE LEVEL	510.544	510.194	509.62	509.031	508.435	507.839	507.243	506.647	506.051	505.455	504.859	504.263	503.667	503.162
EXISTING SURFACE LEVEL	504.29	504.47	505.30	504.52	505.57	506.62	507.23	506.96	506.34	505.70	505.07	504.46	503.86	503.37
CHAINAGE	17163.76	17170	17180	17190	17200	17210	17220	17230	17240	17250	17260	17270	17280	17288.47
SUPER ELEVATION	LHS and RHS -3%													

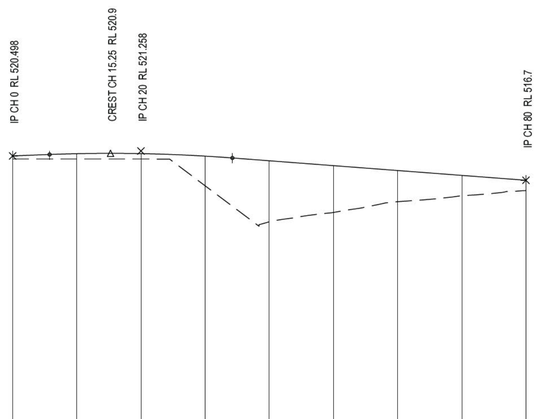
17153.8 17288.5

LONGITUDINAL SECTION - ROAD04

HORZ 1:500 VERT 1:500

LONGITUDINAL SECTION

12d Model
Horizontal Scale 1:500
Vertical Scale 1:500
13-May-2026 09:03:43



DATUM RL. 477.00

VERTICAL ALIGNMENT	L=5.75m G=-3.8%	K=2.5 L=28.49m			L=45.75m G=-7.6%				
HORIZONTAL ALIGNMENT	L=80m								
LEVEL DIFFERENCE CUT - / FILL +	0.50	0.84	0.85	4.62	9.52	7.30	4.86	3.18	1.61
DESIGN SURFACE LEVEL	520.498	520.842	520.852	520.462	519.738	518.979	518.219	517.459	516.7
EXISTING SURFACE LEVEL	520.00	520.00	520.00	515.84	510.22	511.68	513.36	514.28	515.09
CHAINAGE	0	10	20	30	40	50	60	70	80
SUPER ELEVATION					LHS -3%	LHS and RHS -3%			

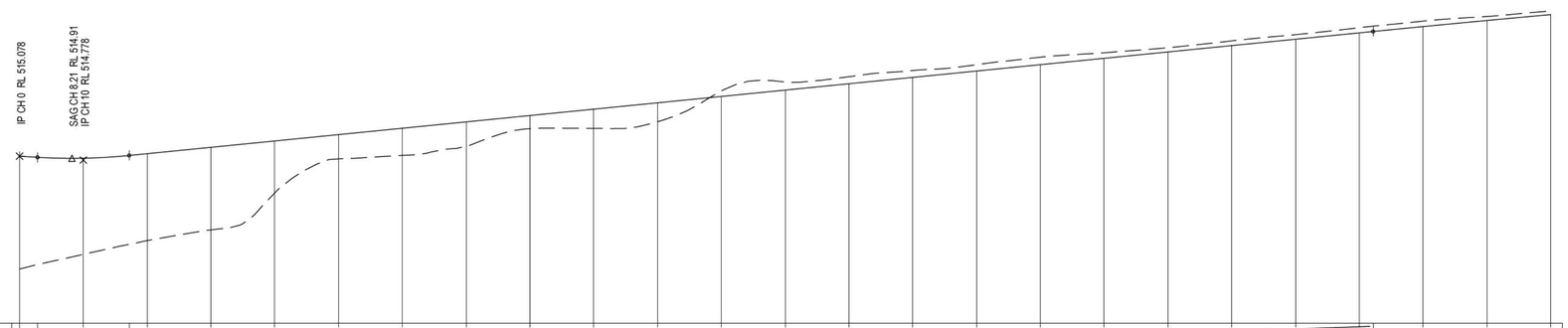
39 80

LONGITUDINAL SECTION - ROAD05

HORZ 1:500 VERT 1:500

LONGITUDINAL SECTION

12d Model
Horizontal Scale 1:500
Vertical Scale 1:500
13-May-2026 09:03:48



DATUM RL. 502.00

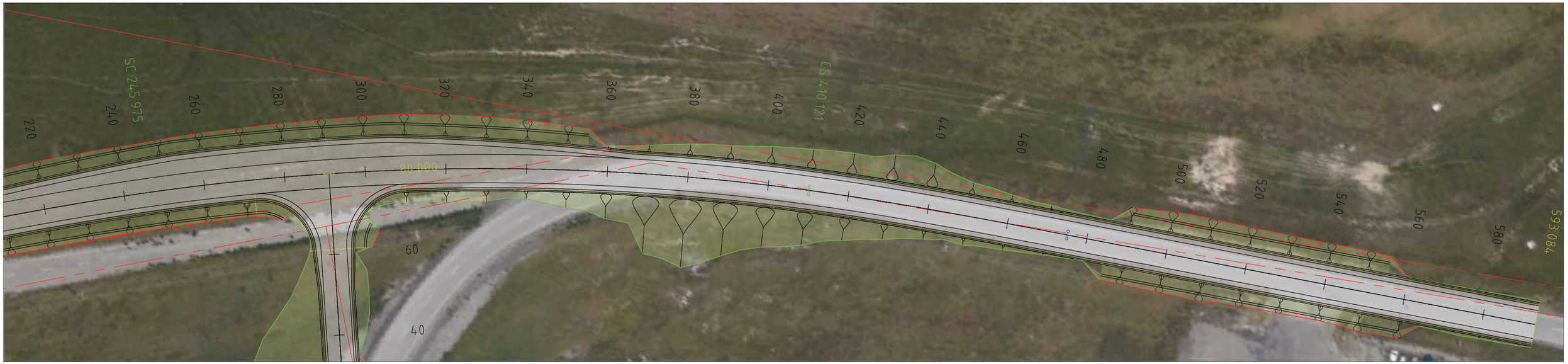
VERTICAL ALIGNMENT	L=2.81m G=-3%	K=1.8 L=14.37m	L=194.98m G=4.99%																							K=60.8 L=99.87m
HORIZONTAL ALIGNMENT	L=80m											L=100.97m														
LEVEL DIFFERENCE CUT - / FILL +	8.85	7.54	6.81	6.47	4.08	1.90	2.13	1.90	1.03	1.51	1.48	-0.43	-0.63	-0.55	-0.54	-0.50	-0.58	-0.43	-0.33	-0.37	-0.36	-0.41	-0.45	-0.32	-0.28
DESIGN SURFACE LEVEL	515.078	514.921	515.277	515.775	516.274	516.772	517.271	517.769	518.268	518.766	519.265	519.763	520.262	520.76	521.259	521.757	522.256	522.754	523.253	523.751	524.25	524.748	525.242	525.719	526.18
EXISTING SURFACE LEVEL	506.23	507.39	508.46	509.30	512.20	514.87	515.14	515.86	517.23	517.26	517.78	520.19	520.90	521.31	521.80	522.26	522.84	523.19	523.58	524.12	524.61	525.16	525.69	526.04	526.46
CHAINAGE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240
SUPER ELEVATION																									

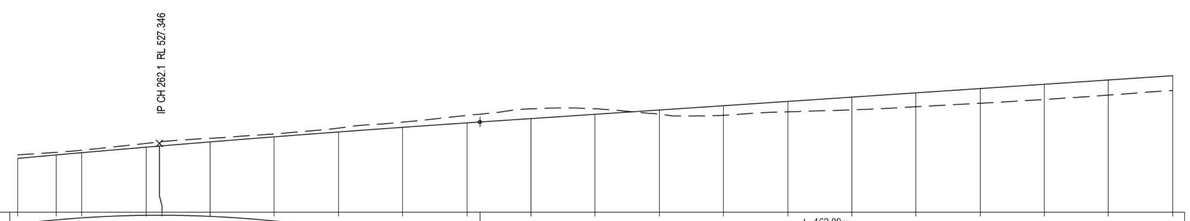
LONGITUDINAL SECTION - ROAD06

HORZ 1:500 VERT 1:250

LONGITUDINAL SECTION

12d Model
Horizontal Scale 1:500
Vertical Scale 1:250
13-May-2026 09:03:54





DATUM RL. 522.00

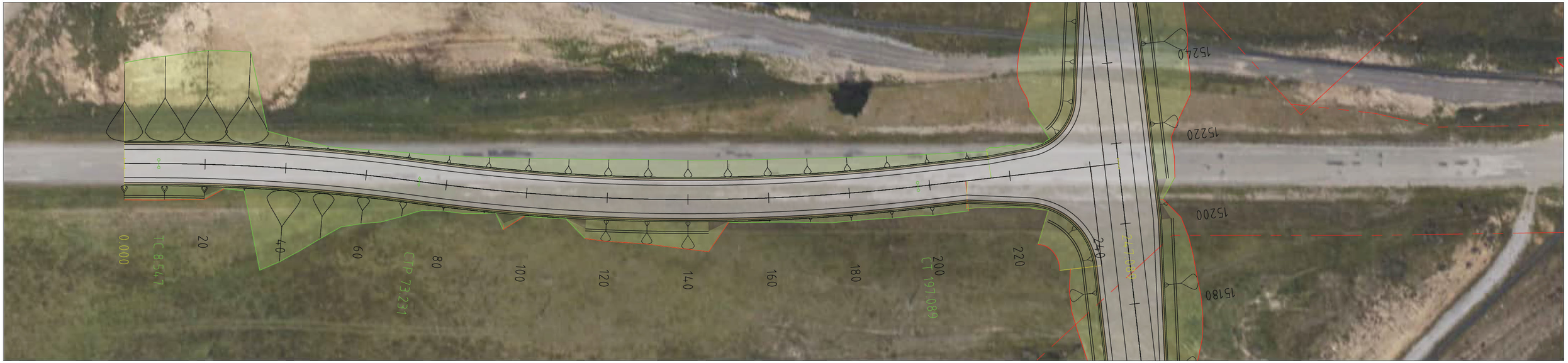
VERTICAL ALIGNMENT																				
HORIZONTAL ALIGNMENT																				
LEVEL DIFFERENCE CUT - / FILL +	-0.28	-0.20	-0.19	-0.29	-0.32	-0.28	-0.23	-0.30	-0.41	-0.58	-0.76	-0.43	0.32	0.75	0.81	0.99	1.08	1.15	1.18	1.18	1.15
DESIGN SURFACE LEVEL	526.18	526.448	526.625	527.053	527.141	527.464	527.86	528.238	528.601	528.946	529.281	529.615	529.95	530.284	530.618	530.952	531.287	531.621	531.955	532.289	532.624
EXISTING SURFACE LEVEL	526.46	526.65	526.82	527.34	527.47	527.75	528.09	528.54	529.01	529.53	530.04	530.05	529.63	529.54	529.81	529.96	530.21	530.47	530.77	531.11	531.47
CHAINAGE	240	245.97	250	260	262.1	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420
SUPER ELEVATION																					

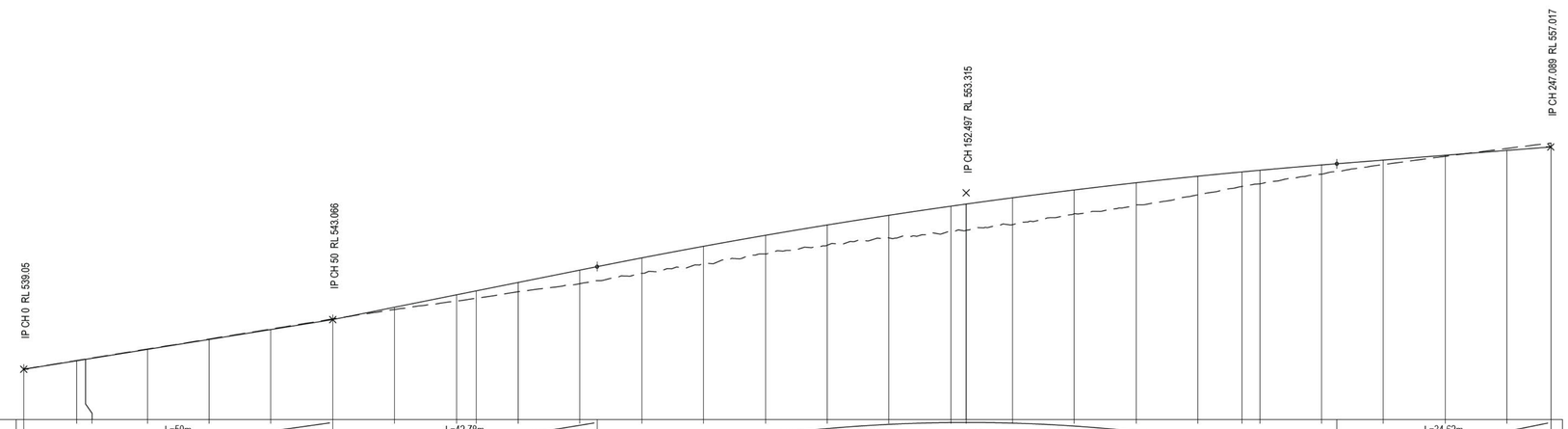
LONGITUDINAL SECTION - ROAD06

HORZ 1:500 VERT 1:250

LONGITUDINAL SECTION

12d Model
Horizontal Scale 1:500
Vertical Scale 1:250
13-May-2026 09:03:58





DATUM RL. 535.00

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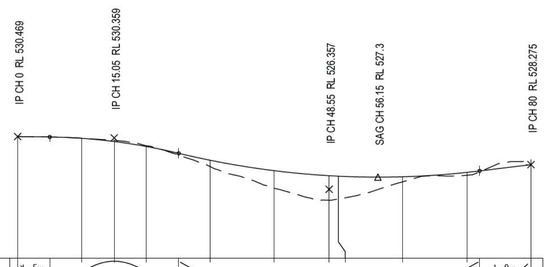


DATUM RL. 521.00

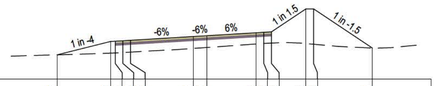
VERTICAL ALIGNMENT	L=5m G=-0.73%	K=1.79 L=20.1m	G=-1.95%	K=2.6 L=46.9m					L=8m G=6.1%	
HORIZONTAL ALIGNMENT	L=80m									
LEVEL DIFFERENCE CUT - / FILL +	0.00	-0.01	-0.09	-0.06	0.49	1.37	1.91	1.78	0.39	0.22	-0.33
DESIGN SURFACE LEVEL	530.469	530.326	530.077	529.695	528.819	527.805	527.415	527.377	527.332	527.673	528.275
EXISTING SURFACE LEVEL	530.47	530.33	530.17	529.75	528.12	526.44	525.50	525.60	526.94	527.45	528.60
CHAINAGE	0	10	15.05	20	30	40	48.55	50	60	70	80
SUPER ELEVATION											

LONGITUDINAL SECTION - ROAD08

HORZ 1:500 VERT 1:250

LONGITUDINAL SECTION

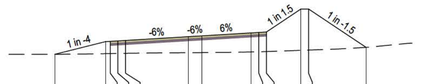
12d Model
Horizontal Scale 1:500
Vertical Scale 1:250
13-May-2026 09:04:10



DATUM R.L. 579.00

DESIGN SURFACE LEVEL	580.563	581.437	581.452	581.482	581.512	581.758	581.812	582.004	582.034	582.064	583.564	583.564	581.006
DEPTH CUT - / FILL +	0	0.76	0.77	0.77	0.77	0.78	0.77	0.73	0.73	0.73	2.27	2.31	0
EXISTING SURFACE LEVEL	580.56	580.67	580.69	580.71	580.74	580.98	581.04	581.27	581.31	581.33	581.3	581.25	581.01
OFFSET FROM CENTRELINE	-9.8	-6.3	-6	-5.5	-5	-0.9	0	3.2	3.7	4.2	6.45	6.95	10.79

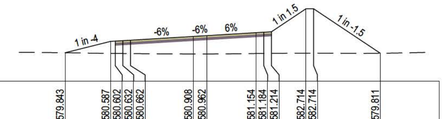
CH 14760



DATUM R.L. 578.00

DESIGN SURFACE LEVEL	580.235	581.064	581.079	581.109	581.139	581.385	581.439	581.631	581.661	581.691	583.191	583.191	580.687
DEPTH CUT - / FILL +	0	0.79	0.8	0.82	0.84	1.05	1.09	1.24	1.26	1.28	2.7	2.68	0
EXISTING SURFACE LEVEL	580.23	580.28	580.28	580.29	580.3	580.34	580.35	580.39	580.4	580.41	580.49	580.51	580.69
OFFSET FROM CENTRELINE	-9.62	-6.3	-6	-5.5	-5	-0.9	0	3.2	3.7	4.2	6.45	6.95	10.71

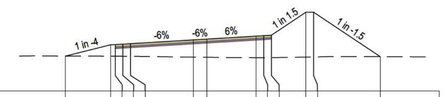
CH 14750



DATUM R.L. 578.00

DESIGN SURFACE LEVEL	579.843	580.587	580.602	580.632	580.662	580.908	580.962	581.154	581.184	581.214	582.714	582.714	579.811
DEPTH CUT - / FILL +	0	0.79	0.8	0.84	0.87	1.15	1.2	1.36	1.39	1.41	2.9	2.9	0
EXISTING SURFACE LEVEL	579.84	579.8	579.8	579.79	579.79	579.76	579.76	579.79	579.8	579.8	579.81	579.81	579.81
OFFSET FROM CENTRELINE	-9.28	-6.3	-6	-5.5	-5	-0.9	0	3.2	3.7	4.2	6.45	6.95	11.3

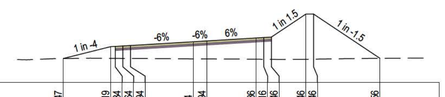
CH 14740



DATUM R.L. 577.00

DESIGN SURFACE LEVEL	579.268	580.005	580.02	580.05	580.08	580.326	580.38	580.572	580.602	580.632	582.132	582.132	579.232
DEPTH CUT - / FILL +	0	0.74	0.76	0.79	0.83	1.12	1.19	1.4	1.44	1.46	2.93	2.92	0
EXISTING SURFACE LEVEL	579.27	579.26	579.26	579.26	579.25	579.2	579.19	579.17	579.17	579.17	579.2	579.21	579.23
OFFSET FROM CENTRELINE	-9.25	-6.3	-6	-5.5	-5	-0.9	0	3.2	3.7	4.2	6.45	6.95	11.3

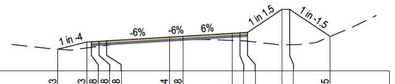
CH 14730



DATUM R.L. 577.00

DESIGN SURFACE LEVEL	578.547	579.319	579.334	579.364	579.394	579.64	579.694	579.886	579.916	579.946	581.446	581.446	578.556
DEPTH CUT - / FILL +	0	0.76	0.78	0.82	0.85	1.12	1.18	1.39	1.42	1.46	2.95	2.95	0
EXISTING SURFACE LEVEL	578.55	578.56	578.55	578.55	578.55	578.52	578.52	578.5	578.5	578.49	578.5	578.5	578.56
OFFSET FROM CENTRELINE	-9.39	-6.3	-6	-5.5	-5	-0.9	0	3.2	3.7	4.2	6.45	6.95	11.28

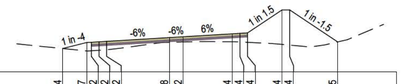
CH 14720



DATUM R.L. 580.00

DESIGN SURFACE LEVEL	581.403	581.873	581.888	581.918	581.948	582.194	582.248	582.44	582.47	582.5	584	584	582.235
DEPTH CUT - / FILL +	0	0.39	0.36	0.32	0.29	0.18	0.22	0.46	0.51	0.57	2.32	2.31	0
EXISTING SURFACE LEVEL	581.4	581.49	581.53	581.59	581.65	582.02	582.02	581.98	581.96	581.93	581.68	581.69	582.23
OFFSET FROM CENTRELINE	-8.18	-6.3	-6	-5.5	-5	-0.9	0	3.2	3.7	4.2	6.45	6.95	9.6

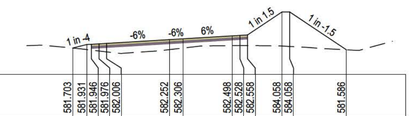
CH 14810



DATUM R.L. 580.00

DESIGN SURFACE LEVEL	581.514	581.907	581.922	581.952	581.982	582.228	582.282	582.474	582.504	582.534	584.034	584.034	581.945
DEPTH CUT - / FILL +	0	0.55	0.55	0.55	0.55	0.31	0.34	0.52	0.55	0.62	2.25	2.3	0
EXISTING SURFACE LEVEL	581.51	581.36	581.37	581.4	581.43	581.92	581.94	581.96	581.94	581.92	581.78	581.74	581.94
OFFSET FROM CENTRELINE	-7.87	-6.3	-6	-5.5	-5	-0.9	0	3.2	3.7	4.2	6.45	6.95	10.08

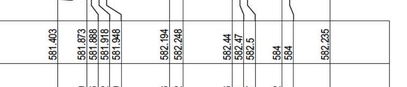
CH 14800



DATUM R.L. 580.00

DESIGN SURFACE LEVEL	581.703	581.931	581.946	581.976	582.006	582.252	582.306	582.498	582.528	582.558	584.058	584.058	581.586
DEPTH CUT - / FILL +	0	0.33	0.39	0.47	0.56	0.65	0.6	0.64	0.66	0.7	2.23	2.25	0
EXISTING SURFACE LEVEL	581.7	581.6	581.57	581.51	581.45	581.6	581.7	581.86	581.86	581.86	581.83	581.81	581.59
OFFSET FROM CENTRELINE	-7.22	-6.3	-6	-5.5	-5	-0.9	0	3.2	3.7	4.2	6.45	6.95	10.66

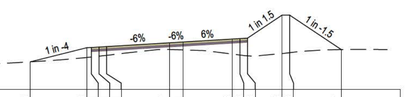
CH 14790



DATUM R.L. 579.00

DESIGN SURFACE LEVEL	581.644	581.871	581.886	581.916	581.946	582.192	582.246	582.438	582.468	582.498	583.998	583.998	581.69
DEPTH CUT - / FILL +	0	0.13	0.14	0.19	0.24	0.92	0.98	0.86	0.85	0.84	2.26	2.25	0
EXISTING SURFACE LEVEL	581.64	581.74	581.75	581.73	581.7	581.27	581.27	581.58	581.62	581.66	581.74	581.74	581.69
OFFSET FROM CENTRELINE	-7.21	-6.3	-6	-5.5	-5	-0.9	0	3.2	3.7	4.2	6.45	6.95	10.41

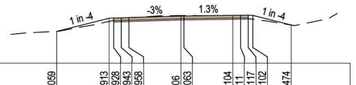
CH 14780



DATUM R.L. 579.00

DESIGN SURFACE LEVEL	580.785	581.706	581.721	581.751	581.781	582.027	582.081	582.273	582.303	582.333	583.833	583.833	581.587
DEPTH CUT - / FILL +	0	0.64	0.62	0.6	0.57	0.43	0.52	0.98	1.07	1.15	2.51	2.45	0
EXISTING SURFACE LEVEL	580.79	581.07	581.1	581.16	581.21	581.59	581.56	581.29	581.23	581.18	581.33	581.38	581.59
OFFSET FROM CENTRELINE	-9.98	-6.3	-6	-5.5	-5	-0.9	0	3.2	3.7	4.2	6.45	6.95	10.32

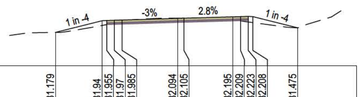
CH 14770



DATUM R.L. 579.00

DESIGN SURFACE LEVEL	581.059	581.913	581.928	581.943	581.958	582.06	582.063	582.104	582.11	582.117	582.102	581.474
DEPTH CUT - / FILL +	0	0.2	0.16	0.07	0.01	-0.03	-0.03	0.11	0.17	0.23	0.25	0
EXISTING SURFACE LEVEL	581.06	581.71	581.77	581.87	581.94	582.09	582.09	581.99	581.94	581.89	581.85	581.47
OFFSET FROM CENTRELINE	-8.31	-4.89	-4.59	-4.09	-3.59	-0.19	0	3.2	3.7	4.2	4.5	7.01

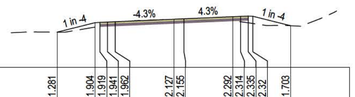
CH 14850



DATUM R.L. 579.00

DESIGN SURFACE LEVEL	581.179	581.94	581.955	581.97	581.985	582.094	582.105	582.195	582.209	582.223	582.238	581.475
DEPTH CUT - / FILL +	0	0.31	0.27	0.18	0.1	-0.02	-0	0.19	0.28	0.37	0.39	0
EXISTING SURFACE LEVEL	581.18	581.63	581.69	581.79	581.89	582.11	582.11	582.01	581.93	581.86	581.84	581.48
OFFSET FROM CENTRELINE	-8.38	-5.34	-5.04	-4.54	-4.04	-0.42	0	3.2	3.7	4.2	4.5	7.43

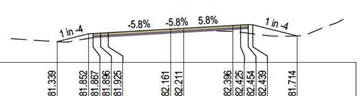
CH 14840



DATUM R.L. 579.00

DESIGN SURFACE LEVEL	581.281	581.904	581.919	581.941	581.992	582.127	582.195	582.292	582.314	582.335	582.32	581.703
DEPTH CUT - / FILL +	0	0.29	0.26	0.19	0.13	0.02	0.05	0.27	0.36	0.44	0.47	0
EXISTING SURFACE LEVEL	581.28	581.61	581.66	581.75	581.83	582.11	582.11	582.03	581.96	581.89	581.85	581.7
OFFSET FROM CENTRELINE	-8.28	-5.79	-5.49	-4.99	-4.49	-0.64	0	3.2	3.7	4.2	4.5	6.97

CH 14830



DATUM R.L. 580.00

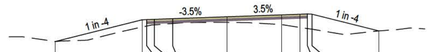
DESIGN SURFACE LEVEL	581.339	581.862	581.877	581.896	581.926	582.161	582.211	582.396	582.425	582.454	582.499	581.714
DEPTH CUT - / FILL +	0	0.3	0.27	0.21	0.16	0.08	0.14	0.39	0.47	0.55	0.69	0
EXISTING SURFACE LEVEL	581.34	581.55	581.61	581.69	581.76	582.08	582.08	582	581.96	581.89	581.85	581.71
OFFSET FROM CENTRELINE	-8.29	-6.24	-5.94	-5.44	-4.94	-0.87	0	3.2	3.7	4.2	4.5	7.4

CH 14820

CROSS SECTIONS

ROAD04

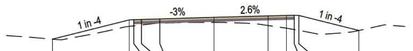
12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:4AM



DATUM R.L. 571.00

DESIGN SURFACE LEVEL	572.267	572.687	572.702	572.719	572.761	573.886	574.01	574.052	574.069	574.054	572.982
DEPTH CUT - / FILL +	0	0.47	0.42	0.36	0.31	0.37	0.63	0.86	0.95	0.98	0
EXISTING SURFACE LEVEL	572.27	573.22	573.28	573.36	573.45	573.52	573.38	573.19	573.12	573.07	572.96
OFFSET FROM CENTRELINE	-11.23	-5.55	-5.25	-4.75	-3.55	0	3.55	4.75	5.25	5.55	9.92

CH 14490



DATUM R.L. 571.00

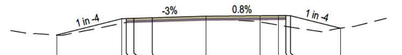
DESIGN SURFACE LEVEL	572.299	573.553	573.568	573.583	573.619	573.725	573.817	573.848	573.862	573.847	572.865
DEPTH CUT - / FILL +	0	0.42	0.4	0.36	0.27	0.33	0.63	0.84	0.94	0.98	0
EXISTING SURFACE LEVEL	572.3	573.13	573.17	573.22	573.35	573.39	573.19	573.01	572.92	572.87	572.87
OFFSET FROM CENTRELINE	-10.55	-5.54	-5.24	-4.74	-3.54	0	3.54	4.74	5.24	5.54	9.46

CH 14480

DATUM R.L. 570.00

DESIGN SURFACE LEVEL	572.294	573.392	573.407	573.422	573.458	573.564	573.625	573.645	573.654	573.639	572.673
DEPTH CUT - / FILL +	0	0.37	0.34	0.27	0.23	0.28	0.52	0.71	0.82	0.86	0
EXISTING SURFACE LEVEL	572.29	573.02	573.07	573.15	573.23	573.28	573.1	572.93	572.84	572.78	572.67
OFFSET FROM CENTRELINE	-9.92	-5.52	-5.22	-4.72	-3.52	0	3.52	4.72	5.22	5.52	9.39

CH 14470



DATUM R.L. 570.00

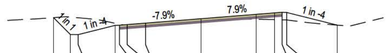
DESIGN SURFACE LEVEL	572.171	573.232	573.247	573.262	573.298	573.403	573.432	573.442	573.447	573.432	572.617
DEPTH CUT - / FILL +	0	0.3	0.26	0.23	0.16	0.19	0.41	0.62	0.71	0.74	0
EXISTING SURFACE LEVEL	572.17	572.93	572.99	573.03	573.14	573.21	573.03	572.82	572.75	572.69	572.62
OFFSET FROM CENTRELINE	-9.75	-5.51	-5.21	-4.71	-3.51	0	3.51	4.71	5.21	5.51	8.77

CH 14460

DATUM R.L. 570.00

DESIGN SURFACE LEVEL	572.113	573.071	573.086	573.101	573.137	573.242	573.24	573.24	573.24	573.225	572.12
DEPTH CUT - / FILL +	0	0.28	0.24	0.18	0.08	0.09	0.29	0.44	0.54	0.66	0
EXISTING SURFACE LEVEL	572.11	572.8	572.84	572.92	573.06	573.15	572.95	572.8	572.69	572.57	572.12
OFFSET FROM CENTRELINE	-9.33	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	9.92

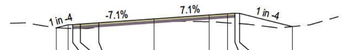
CH 14450



DATUM R.L. 572.00

DESIGN SURFACE LEVEL	574.761	573.653	573.653	574.263	574.293	574.307	574.403	574.69	574.976	575.072	575.111	575.096	574.271
DEPTH CUT - / FILL +	0	-1.14	-1.1	-0.14	-0.08	0.08	0.11	0.07	0.31	0.44	0.49	0.49	0
EXISTING SURFACE LEVEL	574.76	574.8	574.75	574.4	574.37	574.23	574.29	574.62	574.66	574.63	574.62	574.61	574.27
OFFSET FROM CENTRELINE	-9.62	-8.51	-8.01	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	5.61	8.91

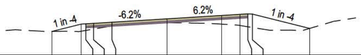
CH 14540



DATUM R.L. 572.00

DESIGN SURFACE LEVEL	573.945	574.14	574.165	574.19	574.275	574.529	574.783	574.867	574.903	574.898	574.027
DEPTH CUT - / FILL +	0	0.23	0.19	0.24	0.27	0.18	0.44	0.6	0.67	0.67	0
EXISTING SURFACE LEVEL	573.95	573.91	573.91	573.91	574.01	574.35	574.34	574.27	574.24	574.22	574.03
OFFSET FROM CENTRELINE	-6.38	-5.6	-5.3	-4.8	-3.6	0	3.6	4.8	5.3	5.6	9.04

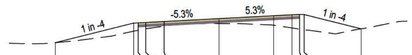
CH 14530



DATUM R.L. 572.00

DESIGN SURFACE LEVEL	573.546	574.027	574.047	574.073	574.147	574.368	574.589	574.663	574.684	574.679	573.744
DEPTH CUT - / FILL +	0	0.47	0.43	0.37	0.24	0.27	0.57	0.73	0.84	0.88	0
EXISTING SURFACE LEVEL	573.55	573.56	573.61	573.7	573.9	574.1	574.02	573.93	573.85	573.8	573.74
OFFSET FROM CENTRELINE	-7.51	-5.58	-5.28	-4.78	-3.58	0	3.58	4.78	5.28	5.58	9.33

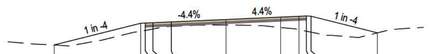
CH 14520



DATUM R.L. 571.00

DESIGN SURFACE LEVEL	572.635	573.914	573.969	573.965	574.019	574.207	574.396	574.459	574.465	574.47	573.54
DEPTH CUT - / FILL +	0	0.53	0.49	0.41	0.3	0.32	0.62	0.86	0.97	1	0
EXISTING SURFACE LEVEL	572.64	573.38	573.45	573.54	573.72	573.89	573.78	573.6	573.52	573.47	573.54
OFFSET FROM CENTRELINE	-10.69	-5.57	-5.27	-4.77	-3.57	0	3.57	4.77	5.27	5.57	9.29

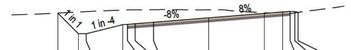
CH 14510



DATUM R.L. 571.00

DESIGN SURFACE LEVEL	572.386	573.8	573.815	573.837	573.89	574.046	574.203	574.255	574.277	574.282	573.177
DEPTH CUT - / FILL +	0	0.62	0.48	0.41	0.29	0.35	0.68	0.87	0.99	1.04	0
EXISTING SURFACE LEVEL	572.39	573.28	573.33	573.43	573.6	573.69	573.52	573.39	573.28	573.22	573.18
OFFSET FROM CENTRELINE	-11.22	-5.58	-5.28	-4.78	-3.58	0	3.58	4.78	5.28	5.58	9.9

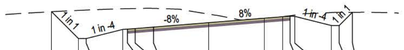
CH 14500



DATUM R.L. 573.00

DESIGN SURFACE LEVEL	575.807	574.454	574.454	575.054	575.069	575.109	575.205	575.494	575.782	575.878	575.918	575.903	575.849
DEPTH CUT - / FILL +	0	-1.42	-1.45	-0.95	-0.94	-0.91	-0.82	-0.52	-0.04	0.17	0.16	0.09	0
EXISTING SURFACE LEVEL	575.81	575.87	575.9	576	576.01	576.02	576.03	576.02	575.82	575.71	575.76	575.81	575.85
OFFSET FROM CENTRELINE	-9.86	-8.51	-8.01	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	5.61	5.83

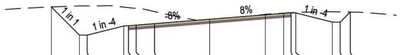
CH 14590



DATUM R.L. 573.00

DESIGN SURFACE LEVEL	576.047	574.293	574.293	574.893	574.908	574.948	575.044	575.333	575.622	575.718	575.758	575.743	575.143	575.143	576.008
DEPTH CUT - / FILL +	0	-1.84	-1.86	-1.35	-1.34	-1.31	-1.22	-0.55	0.01	-0	-0.03	-0.09	-0.85	-0.86	0
EXISTING SURFACE LEVEL	576.05	576.13	576.15	576.24	576.25	576.25	576.26	575.89	575.61	575.72	575.76	575.83	575.99	576	576.01
OFFSET FROM CENTRELINE	-10.26	-8.51	-8.01	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	5.61	8.01	8.51	9.38

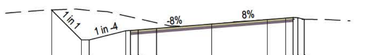
CH 14580



DATUM R.L. 572.00

DESIGN SURFACE LEVEL	575.975	574.132	574.132	574.732	574.747	574.787	574.893	575.172	575.461	575.557	575.597	575.582	574.982	574.982	575.639
DEPTH CUT - / FILL +	0	-1.91	-1.91	-1.23	-1.18	-1.09	-0.79	0.11	-0.03	-0	-0	-0.04	-0.67	-0.67	0
EXISTING SURFACE LEVEL	575.97	576.04	576.04	575.96	575.93	575.88	575.67	575.07	575.49	575.56	575.6	575.62	575.66	575.65	575.64
OFFSET FROM CENTRELINE	-10.35	-8.51	-8.01	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	5.61	8.01	8.51	9.17

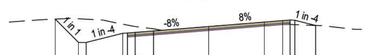
CH 14570



DATUM R.L. 572.00

DESIGN SURFACE LEVEL	575.928	573.971	573.971	574.571	574.586	574.626	574.722	575.011	575.3	575.398	575.436	575.421	575.317
DEPTH CUT - / FILL +	0	-1.98	-1.93	-0.97	-0.89	-0.74	-0.37	0.06	0.02	0.09	0.11	0.1	0
EXISTING SURFACE LEVEL	575.93	575.95	575.9	575.54	575.47	575.36	575.08	574.95	575.28	575.31	575.32	575.32	575.32
OFFSET FROM CENTRELINE	-10.47	-8.51	-8.01	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	5.61	6.03

CH 14560



DATUM R.L. 572.00

DESIGN SURFACE LEVEL	575.334	573.811	573.811	574.411	574.426	574.466	574.562	574.85	575.139	575.235	575.275	575.26	574.919
DEPTH CUT - / FILL +	0	-1.54	-1.52	-0.59	-0.52	-0.38	-0.14	0.01	0.16	0.25	0.29	0.29	0
EXISTING SURFACE LEVEL	575.33	575.35	575.33	575	574.94	574.85	574.7	574.84	574.98	574.98	574.98	574.97	574.92
OFFSET FROM CENTRELINE	-10.03	-8.51	-8.01	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	5.61	6.97

CH 14550

CROSS SECTIONS

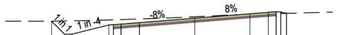
ROAD04

12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:4AM

DATUM R.L. 574.00

DESIGN SURFACE LEVEL	575.785	575.842	575.867	575.897	575.993	576.281	576.57	576.666	576.706	576.691	576.198
DEPTH CUT - / FILL +	0	0.05	0.08	0.09	0.14	0.32	0.5	0.56	0.59	0.56	0
EXISTING SURFACE LEVEL	575.79	575.79	575.79	575.82	575.85	575.96	576.07	576.1	576.12	576.13	576.2
OFFSET FROM CENTRELINE	-5.83	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	5.61	7.58

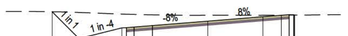
CH 14640



DATUM R.L. 573.00

DESIGN SURFACE LEVEL	575.941	575.996	575.996	575.996	575.711	575.751	575.847	576.135	576.424	576.52	576.545	576.45
DEPTH CUT - / FILL +	0	-0.86	-0.87	-0.32	-0.32	-0.29	-0.24	-0.09	0.04	0.09	0.12	0
EXISTING SURFACE LEVEL	575.94	575.96	575.97	576.02	576.03	576.05	576.09	576.23	576.39	576.43	576.44	576.45
OFFSET FROM CENTRELINE	-9.36	-8.51	-8.01	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	5.61	5.99

CH 14630



DATUM R.L. 573.00

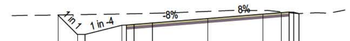
DESIGN SURFACE LEVEL	576.59	574.936	574.936	575.536	575.551	575.591	575.687	575.976	576.265	576.361	576.401	576.386	576.372
DEPTH CUT - / FILL +	0	-1.61	-1.59	-0.9	-0.88	-0.82	-0.7	-0.39	-0.1	-0	0.03	0.01	0
EXISTING SURFACE LEVEL	576.59	576.55	576.53	576.44	576.43	576.41	576.39	576.36	576.36	576.36	576.37	576.37	576.37
OFFSET FROM CENTRELINE	-10.16	-8.51	-8.01	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	5.61	5.67

CH 14620

DATUM R.L. 573.00

DESIGN SURFACE LEVEL	576.253	574.775	574.775	575.375	575.39	575.43	575.526	575.815	576.104	576.2	576.24	576.225	575.625	575.625	576.189
DEPTH CUT - / FILL +	0	-1.46	-1.46	-0.82	-0.8	-0.75	-0.64	-0.39	-0.17	-0.11	-0.08	-0.09	-0.63	-0.6	0
EXISTING SURFACE LEVEL	576.25	576.24	576.23	576.2	576.19	576.18	576.17	576.2	576.28	576.31	576.32	576.31	576.25	576.22	576.19
OFFSET FROM CENTRELINE	-9.99	-8.51	-8.01	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	5.61	8.01	8.51	9.07

CH 14610



DATUM R.L. 573.00

DESIGN SURFACE LEVEL	575.883	574.614	574.614	575.214	575.229	575.269	575.365	575.654	575.943	576.039	576.079	576.064	575.977
DEPTH CUT - / FILL +	0	-1.29	-1.3	-0.74	-0.73	-0.7	-0.63	-0.47	-0.24	-0.04	0.05	0.06	0
EXISTING SURFACE LEVEL	575.88	575.91	575.91	575.95	575.96	575.97	575.99	576.12	576.18	576.08	576.03	576.01	575.98
OFFSET FROM CENTRELINE	-9.78	-8.51	-8.01	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	5.61	5.96

CH 14600

DATUM R.L. 574.00

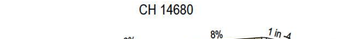
DESIGN SURFACE LEVEL	576.986	575.459	575.459	576.059	576.074	576.114	576.21	576.476	576.765	577.054	577.15	577.19	577.175	576.575	576.575	577.198
DEPTH CUT - / FILL +	0	-1.61	-1.63	-1.1	-1.09	-1.06	-1	-0.85	-0.57	-0.22	-0.09	-0.04	-0.04	-0.6	-0.61	0
EXISTING SURFACE LEVEL	576.99	577.07	577.09	577.16	577.17	577.18	577.21	577.33	577.34	577.28	577.24	577.23	577.22	577.18	577.18	577.2
OFFSET FROM CENTRELINE	-13.36	-11.84	-11.34	-8.94	-8.64	-8.13	-6.94	-3.61	0	3.61	4.81	5.31	5.61	8.01	8.51	9.19

CH 14690

DATUM R.L. 574.00

DESIGN SURFACE LEVEL	576.161	575.451	575.451	576.051	576.066	576.106	576.202	576.412	576.701	576.99	577.086	577.126	577.111	576.905
DEPTH CUT - / FILL +	0	-0.74	-0.77	-0.29	-0.3	-0.29	-0.24	-0.11	0.05	0.21	0.26	0.27	0.24	0
EXISTING SURFACE LEVEL	576.16	576.19	576.22	576.34	576.36	576.39	576.44	576.53	576.65	576.78	576.83	576.85	576.87	576.9
OFFSET FROM CENTRELINE	-11.85	-11.14	-10.64	-8.24	-7.93	-7.44	-6.24	-3.61	0	3.61	4.81	5.31	5.61	6.43

CH 14680



DATUM R.L. 574.00

DESIGN SURFACE LEVEL	575.88	576.027	576.042	576.092	576.117	576.118	576.332	576.621	576.91	577.006	577.046	577.031	576.653
DEPTH CUT - / FILL +	0	0.12	0.12	0.14	0.14	0.18	0.23	0.34	0.43	0.46	0.48	0.45	0
EXISTING SURFACE LEVEL	575.88	575.91	575.92	575.94	575.94	576	576.1	576.28	576.48	576.54	576.57	576.58	576.65
OFFSET FROM CENTRELINE	-8.12	-7.53	-7.23	-6.74	-6.54	-5.54	-3.61	0	3.61	4.81	5.31	5.61	7.12

CH 14670

DATUM R.L. 574.00

DESIGN SURFACE LEVEL	575.637	575.986	576.001	576.075	576.041	576.137	576.235	576.524	576.813	576.909	576.949	576.934	576.477
DEPTH CUT - / FILL +	0	0.28	0.29	0.29	0.3	0.34	0.38	0.49	0.57	0.6	0.61	0.57	0
EXISTING SURFACE LEVEL	575.64	575.71	575.72	575.74	575.74	575.8	575.86	576.03	576.24	576.31	576.34	576.36	576.48
OFFSET FROM CENTRELINE	-8.23	-6.83	-6.53	-6.03	-5.83	-4.83	-3.61	0	3.61	4.81	5.31	5.61	7.44

CH 14660

DATUM R.L. 574.00

DESIGN SURFACE LEVEL	575.632	575.929	575.944	575.984	576.08	576.122	576.411	576.7	576.796	576.836	576.821	576.267
DEPTH CUT - / FILL +	0	0.27	0.27	0.3	0.36	0.39	0.54	0.67	0.7	0.71	0.68	0
EXISTING SURFACE LEVEL	575.63	575.66	575.67	575.68	575.72	575.74	575.87	576.03	576.09	576.12	576.14	576.27
OFFSET FROM CENTRELINE	-7.32	-6.13	-5.83	-5.33	-4.13	-3.61	0	3.61	4.81	5.31	5.61	7.82

CH 14650

DATUM R.L. 573.00

DESIGN SURFACE LEVEL	574.604	576.118	576.133	576.177	576.269	576.549	576.837	577.126
DEPTH CUT - / FILL +	0	0.9	0.89	0.89	0.89	0.88	0.86	0.86
EXISTING SURFACE LEVEL	574.6	575.22	575.25	575.29	575.38	575.67	575.98	576.27
OFFSET FROM CENTRELINE	-15.16	-9.11	-8.81	-8.31	-7.11	-3.61	0	3.61

CH 14740

DATUM R.L. 573.00

DESIGN SURFACE LEVEL	575.064	576.136	576.151	576.191	576.287	576.567	576.856	577.145
DEPTH CUT - / FILL +	0	0.8	0.8	0.8	0.82	0.92	0.98	1.04
EXISTING SURFACE LEVEL	575.06	575.33	575.35	575.39	575.47	575.64	575.87	576.11
OFFSET FROM CENTRELINE	-13.4	-9.11	-8.81	-8.31	-7.11	-3.61	0	3.61

CH 14730

DATUM R.L. 574.00

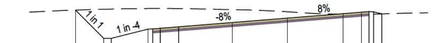
DESIGN SURFACE LEVEL	575.645	576.138	576.153	576.193	576.289	576.569	576.858	577.147
DEPTH CUT - / FILL +	0	0.43	0.44	0.46	0.52	0.69	0.87	1.03
EXISTING SURFACE LEVEL	575.65	575.71	575.72	575.73	575.77	575.88	575.99	576.12
OFFSET FROM CENTRELINE	-11.08	-9.11	-8.81	-8.31	-7.11	-3.61	0	3.61

CH 14720

DATUM R.L. 574.00

DESIGN SURFACE LEVEL	576.209	575.523	575.523	576.123	576.138	576.178	576.274	576.554	576.843	577.132	577.228	577.268	577.253
DEPTH CUT - / FILL +	0	-0.73	-0.75	-0.24	-0.23	-0.2	-0.12	0.18	0.4	0.59	0.62	0.63	0.6
EXISTING SURFACE LEVEL	576.21	576.25	576.27	576.36	576.36	576.37	576.39	576.38	576.45	576.55	576.61	576.64	576.65
OFFSET FROM CENTRELINE	-12.7	-12.01	-11.51	-9.11	-8.81	-8.31	-7.11	-3.61	0	3.61	4.81	5.31	5.61

CH 14710



DATUM R.L. 574.00

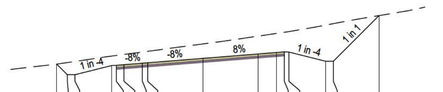
DESIGN SURFACE LEVEL	577.333	575.493	575.493	576.093	576.108	576.148	576.244	576.524	576.812	577.101	577.197	577.237	577.222
DEPTH CUT - / FILL +	0	-1.89	-1.91	-1.35	-1.33	-1.29	-1.19	-0.84	-0.41	0.04	0.14	0.17	0.15
EXISTING SURFACE LEVEL	577.33	577.39	577.4	577.44	577.44	577.45	577.45	577.36	577.22	577.06	577.06	577.06	577.07
OFFSET FROM CENTRELINE	-13.85	-12.01	-11.51	-9.11	-8.81	-8.31	-7.11	-3.61	0	3.61	4.81	5.31	5.61

CH 14700

CROSS SECTIONS

ROAD04

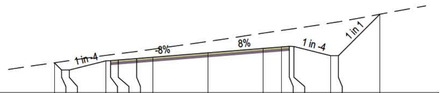
12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:4AM



DATUM R.L. 574.00

DESIGN SURFACE LEVEL	576.124	575.431	575.431	576.031	576.046	576.066	576.182	576.21	576.498	576.787	576.883	576.923	576.908	576.308	576.308	579.29
DEPTH CUT - / FILL +	0	-0.79	-0.86	-0.82	-0.64	-0.67	-0.73	-0.75	-0.94	-1.16	-1.24	-1.28	-1.34	-2.36	-2.46	0
EXISTING SURFACE LEVEL	576.12	576.22	576.3	576.65	576.69	576.75	576.91	576.96	577.44	577.95	578.13	578.2	578.25	578.67	578.76	579.29
OFFSET FROM CENTRELINE	-9.55	-9.86	-9.36	-5.96	-5.66	-5.16	-3.96	-3.61	0	3.61	4.81	5.31	5.61	8.01	8.51	11.49

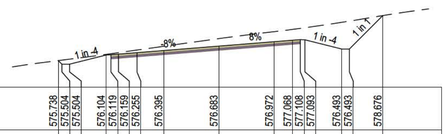
CH 14790



DATUM R.L. 574.00

DESIGN SURFACE LEVEL	575.947	575.475	575.475	576.075	576.09	576.13	576.226	576.31	576.599	576.888	576.884	577.024	577.009	576.409	576.409	579.116
DEPTH CUT - / FILL +	0	-0.54	-0.61	-0.36	-0.38	-0.4	-0.46	-0.52	-0.74	-0.99	-1.08	-1.11	-1.17	-2.13	-2.21	0
EXISTING SURFACE LEVEL	575.95	576.02	576.09	576.43	576.47	576.53	576.69	576.83	577.34	577.88	578.06	578.13	578.17	578.54	578.62	579.12
OFFSET FROM CENTRELINE	-10.03	-9.56	-9.06	-6.66	-6.36	-5.66	-4.66	-3.61	0	3.61	4.81	5.31	5.61	8.01	8.51	11.22

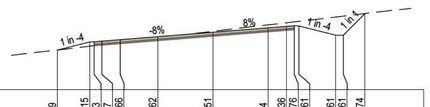
CH 14780



DATUM R.L. 574.00

DESIGN SURFACE LEVEL	575.738	575.504	575.504	576.104	576.119	576.146	576.255	576.395	576.683	576.972	577.068	577.108	577.093	576.493	576.493	579.676
DEPTH CUT - / FILL +	0	-0.26	-0.33	-0.04	-0.07	-0.16	-0.17	-0.28	-0.49	-0.65	-0.71	-0.73	-0.79	-1.74	-1.82	0
EXISTING SURFACE LEVEL	575.74	575.77	575.83	576.14	576.19	576.26	576.43	576.67	577.17	577.63	577.77	577.94	577.88	578.24	578.32	579.68
OFFSET FROM CENTRELINE	-10.49	-10.26	-9.76	-7.36	-7.06	-6.36	-5.36	-3.61	0	3.61	4.81	5.31	5.61	8.01	8.51	10.69

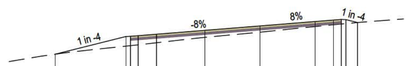
CH 14770



DATUM R.L. 573.00

DESIGN SURFACE LEVEL	575.59	576.115	576.13	576.177	576.289	576.462	576.751	577.04	577.136	577.176	577.161	576.561	576.561	577.974	579.206
DEPTH CUT - / FILL +	0	0.27	0.25	0.22	0.17	0.08	-0.06	-0.19	-0.23	-0.25	-0.3	-1.18	-1.24	0	0
EXISTING SURFACE LEVEL	575.59	575.84	575.88	575.95	576.09	576.38	576.81	577.23	577.37	577.43	577.46	577.74	577.8	577.97	579.21
OFFSET FROM CENTRELINE	-10.16	-8.06	-7.76	-7.26	-6.66	-3.61	0	3.61	4.81	5.31	5.61	8.01	8.51	9.92	11.66

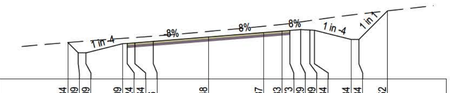
CH 14760



DATUM R.L. 573.00

DESIGN SURFACE LEVEL	574.955	576.111	576.126	576.166	576.262	576.514	576.802	577.091	577.187	577.227	577.212	577.024		
DEPTH CUT - / FILL +	0	0.63	0.61	0.6	0.56	0.46	0.41	0.33	0.31	0.3	0.26	0		
EXISTING SURFACE LEVEL	574.96	575.48	575.51	575.57	575.71	576.05	576.39	576.76	576.88	576.93	576.95	577.02		
OFFSET FROM CENTRELINE	-13.38	-8.76	-8.46	-7.96	-6.76	-3.61	0	3.61	4.81	5.31	5.61	6.38		

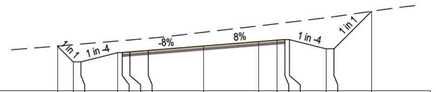
CH 14750



DATUM R.L. 573.00

DESIGN SURFACE LEVEL	575.384	574.709	574.709	575.309	575.324	575.384	575.46	575.748	576.037	576.133	576.173	576.229	576.184	575.584	575.584	577.452
DEPTH CUT - / FILL +	0	-0.73	-0.77	-0.35	-0.35	-0.35	-0.34	-0.36	-0.41	-0.43	-0.46	-0.5	-0.62	-1.6	-1.66	0
EXISTING SURFACE LEVEL	575.38	575.44	575.48	575.66	575.68	575.71	575.8	576.11	576.45	576.57	576.63	576.73	576.86	577.18	577.24	577.45
OFFSET FROM CENTRELINE	-9.19	-8.51	-8.01	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	6.01	6.61	9.31	9.81	11.68

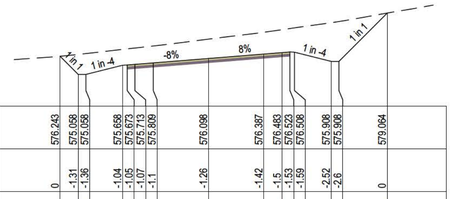
CH 14840



DATUM R.L. 573.00

DESIGN SURFACE LEVEL	575.922	574.892	574.892	575.492	575.507	575.547	575.543	575.931	576.22	576.316	576.356	576.341	575.741	575.741	578.191	
DEPTH CUT - / FILL +	0	-1.12	-1.16	-0.76	-0.77	-0.77	-0.79	-0.89	-1.02	-1.07	-1.09	-1.14	-2.04	-2.1	0	
EXISTING SURFACE LEVEL	575.92	576.01	576.05	576.25	576.28	576.32	576.43	576.82	577.24	577.38	577.45	577.48	577.78	577.84	578.19	
OFFSET FROM CENTRELINE	-9.54	-8.51	-8.01	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	5.61	8.01	8.51	10.96	

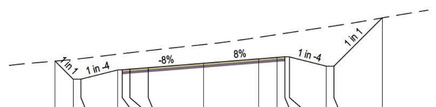
CH 14830



DATUM R.L. 573.00

DESIGN SURFACE LEVEL	576.243	575.058	575.058	575.658	575.673	575.713	575.809	576.098	576.387	576.483	576.522	576.508	575.908	575.908	579.094	
DEPTH CUT - / FILL +	0	-1.31	-1.36	-1.04	-1.05	-1.07	-1.1	-1.26	-1.42	-1.5	-1.53	-1.59	-2.52	-2.6	0	
EXISTING SURFACE LEVEL	576.24	576.36	576.42	576.69	576.73	576.78	576.91	577.36	577.81	577.98	578.05	578.1	578.43	578.51	579.06	
OFFSET FROM CENTRELINE	-9.7	-8.51	-8.01	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	5.61	8.01	8.51	11.67	

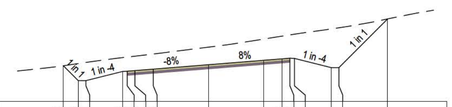
CH 14820



DATUM R.L. 573.00

DESIGN SURFACE LEVEL	576.386	575.208	575.208	575.808	575.823	575.863	575.959	576.248	576.537	576.633	576.673	576.658	576.058	576.058	579.206	
DEPTH CUT - / FILL +	0	-1.29	-1.34	-1.03	-1.05	-1.07	-1.11	-1.22	-1.4	-1.49	-1.53	-1.59	-2.55	-2.62	0	
EXISTING SURFACE LEVEL	576.39	576.49	576.55	576.84	576.88	576.93	577.07	577.46	577.94	578.12	578.2	578.25	578.6	578.68	579.21	
OFFSET FROM CENTRELINE	-9.69	-8.51	-8.01	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	5.61	8.01	8.51	11.66	

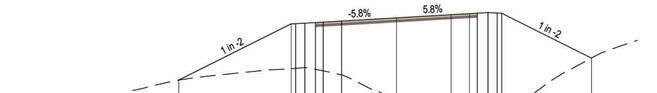
CH 14810



DATUM R.L. 574.00

DESIGN SURFACE LEVEL	576.313	575.342	575.342	575.942	575.957	575.997	576.093	576.381	576.67	576.766	576.806	576.791	576.191	576.191	579.37	
DEPTH CUT - / FILL +	0	-1.11	-1.119	-0.9	-0.92	-0.94	-0.99	-1.15	-1.39	-1.48	-1.52	-1.58	-2.6	-2.6	0	
EXISTING SURFACE LEVEL	576.31	576.46	576.53	576.85	576.88	576.94	577.08	577.53	578.06	578.25	578.33	578.37	578.72	578.79	579.37	
OFFSET FROM CENTRELINE	-9.48	-8.51	-8.01	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	5.61	8.01	8.51	11.69	

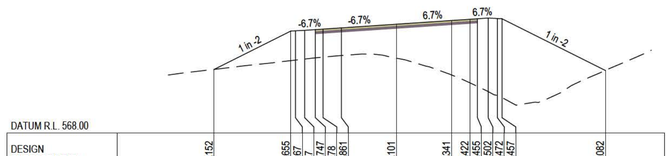
CH 14800



DATUM R.L. 565.00

DESIGN SURFACE LEVEL	570.792	574.46	574.475	574.505	574.546	574.575	574.645	574.852	575.06	575.13	575.159	575.189	575.189	575.154	572.229	
DEPTH CUT - / FILL +	0	2.93	2.92	2.9	2.85	3.05	3.18	5.42	7.92	8.11	8.09	7.91	7.88	7.11	0	
EXISTING SURFACE LEVEL	570.79	571.53	571.56	571.6	571.49	571.63	571.73	569.44	567.14	567.02	567.07	567.29	567.27	566.05	572.23	
OFFSET FROM CENTRELINE	-14.22	-6.88	-6.58	-5.98	-5.28	-4.78	-3.58	0	3.58	4.78	5.28	5.58	5.88	6.88	12.73	

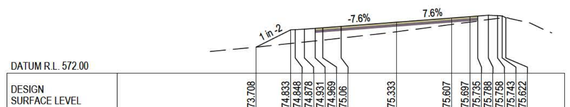
CH 14880



DATUM R.L. 568.00

DESIGN SURFACE LEVEL	572.152	574.655	574.67	574.7	574.747	574.78	574.861	575.101	575.341	575.422	575.455	575.502	575.472	575.457	572.062	
DEPTH CUT - / FILL +	0	1.93	1.91	1.88	1.84	1.83	1.8	2.22	3.55	4.15	4.41	4.6	4.62	5.14	0	
EXISTING SURFACE LEVEL	572.15	572.72	572.76	572.83	572.9	572.93	573.06	572.88	571.79	571.28	571.04	570.9	570.85	570.31	572.08	
OFFSET FROM CENTRELINE	-11.9	-6.89	-6.59	-5.99	-5.29	-4.79	-3.59	0	3.59	4.79	5.29	5.89	6.19	6.89	13.64	

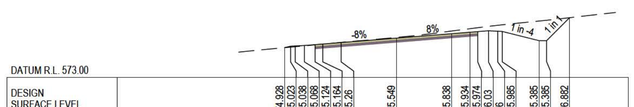
CH 14870



DATUM R.L. 572.00

DESIGN SURFACE LEVEL	573.708	574.833	574.848	574.878	574.931	574.989	575.06	575.333	575.607	575.697	575.735	575.788	575.789	575.743	575.622	
DEPTH CUT - / FILL +	0	0.89	0.88	0.84	0.82	0.81	0.77	0.63	0.42	0.36	0.33	0.28	0.28	0.13	0	
EXISTING SURFACE LEVEL	573.71	573.94	573.97	574.04	574.11	574.16	574.29	574.71	575.19	575.34	575.4	575.5	575.49	575.61	575.62	
OFFSET FROM CENTRELINE	-9.16	-6.9	-6.6	-5.9	-5.3	-4.8	-3.6	0	3.6	4.8	5.3	5.6	5.9	6.6	7.15	

CH 14860



DATUM R.L. 573.00

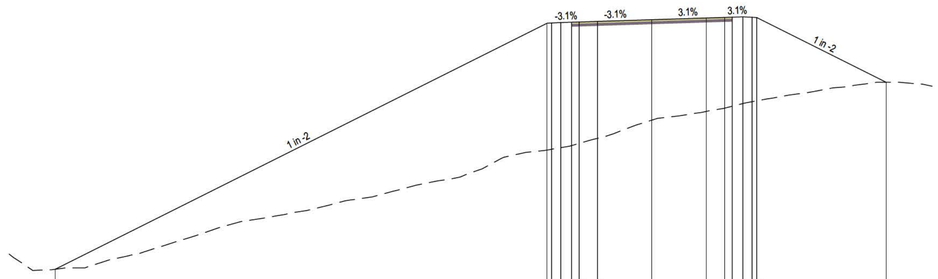
DESIGN SURFACE LEVEL	574.928	575.023	575.069	575.099	575.124	575.164	575.26	575.548	575.838	575.934	575.974	576.03	576.03	575.985	575.385	575.385	576.882
DEPTH CUT - / FILL +	0	0.06	0.05	0.02	0.02	0.01	-0.01	-0.05	-0.18	-0.23	-0.26	-0.29	-0.29	-0.43	-1.28	-1.33	0
EXISTING SURFACE LEVEL	574.93	574.96	574.99	575.03	575.04	575.11	575.15	575.27	575.6	576.01	576.23	576.32	576.33	576.42	576.66	576.72	576.88
OFFSET FROM CENTRELINE	-7.29	-6.81	-6.51	-5.01	-4.51	-3.51	-2.81	-3.61	0	3.61	4.81	5.31	5.61	6.91	9.31	9.81	11.31

CH 14850

CROSS SECTIONS

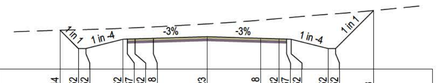
ROAD04

12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:4AM



DATUM R.L. 556.00

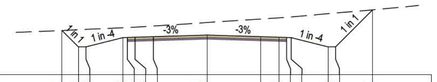
| | | |



DATUM R.L. 568.00

DESIGN SURFACE LEVEL	570.544	569.352	569.352	569.952	569.967	569.982	570.018	570.123	570.018	569.982	569.967	569.952	569.352	569.352	571.83
DEPTH CUT - / FILL +	0	-1.22	-1.23	-0.72	-0.72	-0.72	-0.74	-0.83	-1.18	-1.33	-1.39	-1.43	-2.23	-2.27	0
EXISTING SURFACE LEVEL	570.54	570.57	570.59	570.67	570.68	570.71	570.76	570.96	571.2	571.31	571.35	571.38	571.58	571.62	571.83
OFFSET FROM CENTRELINE	-9.59	-8.4	-7.9	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	10.88

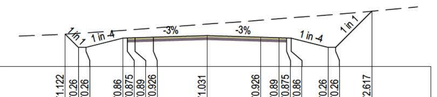
CH 15010



DATUM R.L. 568.00

DESIGN SURFACE LEVEL	570.881	569.814	569.814	570.414	570.429	570.444	570.48	570.585	570.48	570.444	570.429	570.414	569.814	569.814	572.229
DEPTH CUT - / FILL +	0	-1.12	-1.14	-0.85	-0.86	-0.86	-0.89	-0.82	-1.15	-1.26	-1.32	-1.35	-2.17	-2.21	0
EXISTING SURFACE LEVEL	570.88	570.93	570.96	571.08	571.09	571.1	571.17	571.4	571.63	571.71	571.74	571.77	571.98	572.03	572.23
OFFSET FROM CENTRELINE	-9.47	-8.4	-7.9	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	10.81

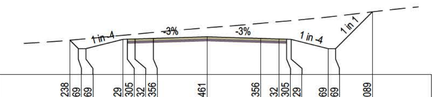
CH 15000



DATUM R.L. 569.00

DESIGN SURFACE LEVEL	571.122	570.26	570.26	570.86	570.875	570.89	570.926	571.031	570.926	570.89	570.875	570.86	570.26	570.26	572.617
DEPTH CUT - / FILL +	0	-0.91	-0.95	-0.5	-0.5	-0.54	-0.59	-0.75	-1.11	-1.24	-1.29	-1.33	-2.11	-2.15	0
EXISTING SURFACE LEVEL	571.12	571.17	571.21	571.37	571.39	571.43	571.52	571.78	572.03	572.13	572.17	572.19	572.37	572.41	572.62
OFFSET FROM CENTRELINE	-9.26	-8.4	-7.9	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	10.76

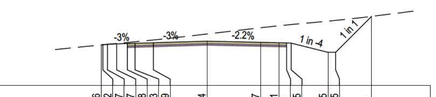
CH 14990



DATUM R.L. 569.00

DESIGN SURFACE LEVEL	571.238	570.69	570.69	571.20	571.25	571.32	571.356	571.461	571.356	571.32	571.305	571.29	570.69	570.69	573.089
DEPTH CUT - / FILL +	0	-0.6	-0.64	-0.27	-0.28	-0.31	-0.39	-0.59	-0.98	-1.13	-1.18	-1.23	-2.06	-2.12	0
EXISTING SURFACE LEVEL	571.24	571.29	571.33	571.56	571.58	571.63	571.75	572.05	572.34	572.45	572.49	572.52	572.75	572.81	573.09
OFFSET FROM CENTRELINE	-8.95	-8.4	-7.9	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	10.8

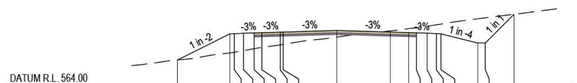
CH 14980



DATUM R.L. 569.00

DESIGN SURFACE LEVEL	571.626	571.652	571.667	571.688	571.716	571.733	571.789	571.874	571.797	571.771	571.76	571.746	571.145	571.145	573.49
DEPTH CUT - / FILL +	0	0.02	0	-0.02	-0.02	-0.01	-0.18	-0.47	-0.95	-1.11	-1.17	-1.21	-2.03	-2.08	0
EXISTING SURFACE LEVEL	571.63	571.64	571.67	571.67	571.69	571.72	571.95	572.34	572.75	572.88	572.93	572.96	573.18	573.23	573.49
OFFSET FROM CENTRELINE	-5.9	-5.8	-5.5	-5.2	-4.7	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	10.75

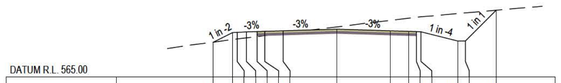
CH 14970



DATUM R.L. 564.00

DESIGN SURFACE LEVEL	565.638	567.336	567.351	567.381	567.402	567.417	567.453	567.459	567.459	567.423	567.408	567.387	567.357	567.342	568.742	568.742	568.615
DEPTH CUT - / FILL +	0	1.25	1.21	1.14	1.03	0.96	0.83	0.81	0.43	-0.08	-0.26	-0.33	-0.44	-0.57	-0.84	-1.58	-1.65	0
EXISTING SURFACE LEVEL	565.64	568.09	568.14	568.24	568.37	568.45	568.52	568.65	567.13	567.54	567.68	567.73	567.83	567.93	567.98	568.32	568.39	568.62
OFFSET FROM CENTRELINE	-10.39	-6.99	-5.69	-5.09	-5.39	-4.89	-3.89	-3.5	0	3.5	4.7	5.2	5.9	6.5	6.8	9.2	9.7	11.57

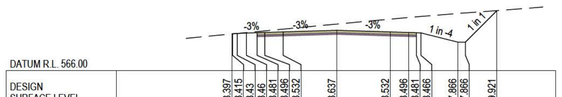
CH 15060



DATUM R.L. 565.00

DESIGN SURFACE LEVEL	567.257	567.886	567.901	567.931	567.952	567.967	568.003	568.108	568.003	567.967	567.952	567.937	567.337	567.337	569.346
DEPTH CUT - / FILL +	0	0.45	0.43	0.39	0.33	0.28	0.18	-0.15	-0.68	-0.86	-0.93	-0.98	-1.8	-1.84	0
EXISTING SURFACE LEVEL	567.26	567.43	567.47	567.54	567.62	567.69	567.83	568.25	568.68	568.83	568.89	568.92	569.13	569.17	569.35
OFFSET FROM CENTRELINE	-8.06	-6.8	-6.5	-5.9	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	10.41

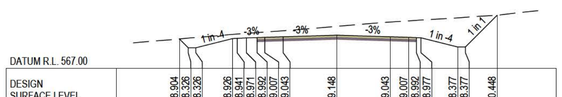
CH 15050



DATUM R.L. 566.00

DESIGN SURFACE LEVEL	568.397	568.415	568.43	568.46	568.481	568.496	568.532	568.637	568.532	568.496	568.481	568.466	567.866	567.866	569.921
DEPTH CUT - / FILL +	0	0.01	0	-0.02	-0.07	-0.1	-0.18	-0.41	-0.83	-0.98	-1.04	-1.08	-1.87	-1.91	0
EXISTING SURFACE LEVEL	568.4	568.4	568.43	568.48	568.55	568.6	568.71	569.04	569.36	569.47	569.52	569.54	569.74	569.77	569.92
OFFSET FROM CENTRELINE	-8.84	-8.4	-7.9	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	10.46

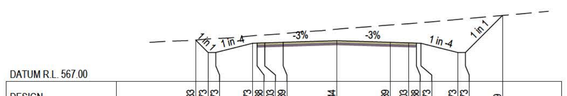
CH 15040



DATUM R.L. 567.00

DESIGN SURFACE LEVEL	568.904	568.926	568.941	568.971	568.992	569.007	569.043	569.148	569.043	569.007	568.992	568.977	568.377	568.377	570.448
DEPTH CUT - / FILL +	0	-0.63	-0.67	-0.27	-0.28	-0.32	-0.39	-0.58	-0.96	-1.07	-1.12	-1.16	-1.9	-1.94	0
EXISTING SURFACE LEVEL	568.9	568.96	569	569.2	569.27	569.32	569.44	569.72	570.01	570.08	570.12	570.14	570.28	570.32	570.45
OFFSET FROM CENTRELINE	-10.28	-9.7	-9.2	-8.8	-5.5	-5.9	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	10.47

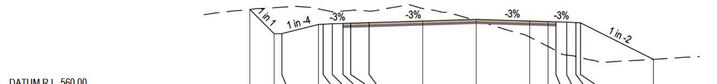
CH 15030



DATUM R.L. 567.00

DESIGN SURFACE LEVEL	569.683	568.873	568.873	569.473	569.488	569.503	569.539	569.644	569.539	569.503	569.488	569.473	568.873	568.873	571.29
DEPTH CUT - / FILL +	0	-0.88	-0.91	-0.49	-0.5	-0.51	-0.57	-0.75	-1.13	-1.25	-1.31	-1.35	-2.16	-2.2	0
EXISTING SURFACE LEVEL	569.68	569.76	569.79	569.96	569.99	570.02	570.1	570.39	570.67	570.75	570.79	570.82	571.03	571.08	571.29
OFFSET FROM CENTRELINE	-9.21	-8.4	-7.9	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	10.82

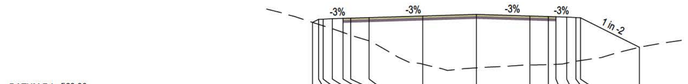
CH 15020



DATUM R.L. 560.00

DESIGN SURFACE LEVEL	565.244	563.666	563.666	564.266	564.281	564.311	564.372	564.387	564.383	564.488	564.593	564.488	564.452	564.437	564.416	564.386	564.371	561.988
DEPTH CUT - / FILL +	0	-1.69	-1.73	-1.01	-0.93	-0.78	-0.81	-0.83	-0.75	-0.83	0.07	1.05	1.63	1.88	2.15	2.21	2.27	0
EXISTING SURFACE LEVEL	566.24	565.36	565.39	565.28	565.22	565.09	565.14	565.16	565.14	565.31	564.52	563.44	562.82	562.55	562.27	562.18	562.1	561.99
OFFSET FROM CENTRELINE	-14.78	-13.2	-12.7	-10.3	-10	-9.4	-9.7	-9.2	-7	-3.5	0	3.5	4.7	5.2	5.9	6.5	6.8	11.57

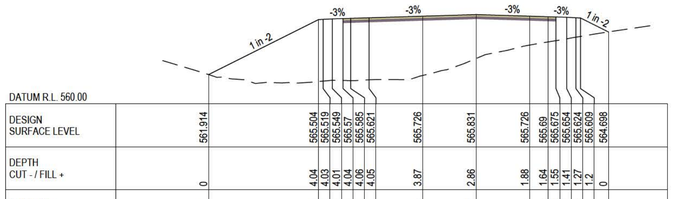
CH 15110



DATUM R.L. 560.00

DESIGN SURFACE LEVEL	564.666	564.663	564.666	564.938	564.959	564.974	565.01	565.115	565.22	565.115	565.079	565.064	565.043	565.013	564.998	563.074
DEPTH CUT - / FILL +	0	-0.32	-0.43	-0.65	-0.65	-0.92	-1.11	-1.52	3.14	3.49	3.2	3.14	3.11	3	2.85	2.79	0
EXISTING SURFACE LEVEL	564.7	564.47	564.47	564.28	564.04	563.87	563.49	561.97	561.73	561.92	561.94	561.96	562.04	562.16	562.2	563.07
OFFSET FROM CENTRELINE	-10.69	-10.3	-10	-9.4	-9.7	-9.2	-7	-3.5	0	3.5	4.7	5.2	5.9	6.5	6.8	10.65

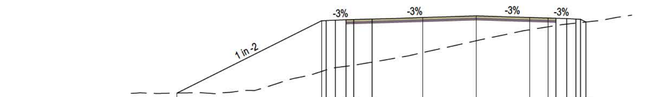
CH 15100



DATUM R.L. 560.00

DESIGN SURFACE LEVEL	561.914	565.504	565.519	565.549	565.57	565.595	565.621	565.726	565.831	565.726	565.69	565.675	565.654	565.624	565.609	564.698
DEPTH CUT - / FILL +	0	4.04	4.03	4.01	4.04	4.05	4.05	3.87	2.86	1.88	1.64	1.55	1.41	1.27	1.2	0
EXISTING SURFACE LEVEL	561.91	561.46	561.49	561.54	561.53	561.55	561.57	561.86	562.97	563.84	564.05	564.13	564.25	564.36	564.4	564.7
OFFSET FROM CENTRELINE	-17.48	-10.3	-10	-9.4	-9.7	-9.2	-7	-3.5	0	3.5	4.7	5.2	5.9	6.5	6.8	8.62

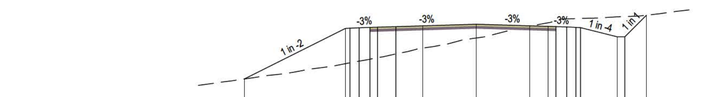
CH 15090



DATUM R.L. 560.00

DESIGN SURFACE LEVEL	561.389	566.103	566.118	566.148	566.169	566.184	566.22	566.32	566.425	566.32	566.294	566.269	566.246	566.218	566.203	566.025
DEPTH CUT - / FILL +	0	3.3	3.22	3.1	3.03	2.98	2.81	2.29	1.62	0.8	0.57	0.49	0.36	0.26	0.22	0
EXISTING SURFACE LEVEL	561.39	562.8	562.9	563.05	563.14	563.2	563.41	564.03	564.8	565.52	565.71	565.79	565.89	565.95	565.99	566.02
OFFSET FROM CENTRELINE	-19.54	-10.11	-9.81	-9.21	-8.51	-8.01	-9.81	-3.5	0	3.5	4.7	5.2	5.9	6.5	6.8	7.16

CH 15080



DATUM R.L. 561.00

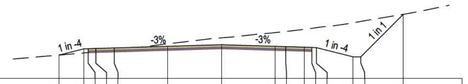
DESIGN SURFACE LEVEL	563.428	566.728	566.743	566.773	566.794	566.839	566.845	566.897	567.002	566.897	566.861	566.846	566.825	566.795	566.78	566.18
DEPTH CUT - / FILL +	0	2.3	2.26	2.18	2.08	1.99	1.78	1.45	0.9	0.04	-0.24	-0.39	-0.52	-0.57	-0.6	-1.3
EXISTING SURFACE LEVEL	563.43	564.43	564.49	564.59	564.71	564.82	565.06	565.45	566.1	566.86	567.1	567.23	567.35	567.37	567.38	567.48
OFFSET FROM CENTRELINE	-15.15	-8.55	-9.25	-7.65	-8.45	-8.45	-5.25	-3.5	0	3.5	4.7	5.2	5.9	6.5	6.8	9.2

CH 15070

CROSS SECTIONS

ROAD04

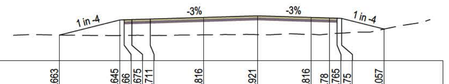
12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:4AM



DATUM R.L. 559.00

DESIGN SURFACE LEVEL	560.536	560.935	560.95	560.965	561.001	561.106	561.211	561.106	561.085	561.049	561.034	561.019	560.419	560.419	563.194
DEPTH CUT - / FILL +	0	0.26	0.25	0.21	0.13	-0.17	-0.45	-0.89	-0.99	-1.16	-1.24	-1.3	-2.22	-2.31	0
EXISTING SURFACE LEVEL	560.54	560.67	560.7	560.75	560.87	561.28	561.66	562	562.07	562.21	562.29	562.32	562.64	562.73	563.19
OFFSET FROM CENTRELINE	-10.6	-9	-8.7	-8.2	-7	-3.5	0	3.5	4.2	5.4	5.9	5.2	8.6	9.1	11.87

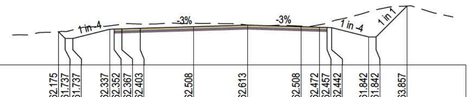
CH 15160



DATUM R.L. 559.00

DESIGN SURFACE LEVEL	560.663	561.645	561.66	561.675	561.711	561.816	561.921	561.816	561.78	561.765	561.75	561.057	
DEPTH CUT - / FILL +	0	1.01	1.02	1.03	1.07	1.13	1.23	1.11	1.04	0.99	0.96	0	
EXISTING SURFACE LEVEL	560.66	560.63	560.64	560.65	560.64	560.68	560.69	560.71	560.74	560.76	560.79	561.06	
OFFSET FROM CENTRELINE	-12.93	-9	-8.7	-8.2	-7	-3.5	0	3.5	4.7	5.2	5.5	8.27	

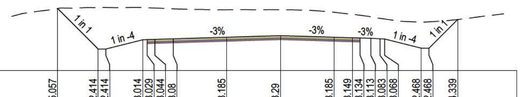
CH 15150



DATUM R.L. 560.00

DESIGN SURFACE LEVEL	562.175	561.737	561.737	562.337	562.352	562.367	562.403	562.508	562.613	562.508	562.472	562.457	562.442	561.842	561.842	563.857
DEPTH CUT - / FILL +	0	-0.45	-0.56	-0.23	-0.25	-0.3	-0.28	-0.22	-0	-0.04	-0.16	-0.3	-0.41	-1.64	-1.77	0
EXISTING SURFACE LEVEL	562.18	562.19	562.3	562.56	562.6	562.67	562.68	562.73	562.62	562.54	562.63	562.75	562.85	563.48	563.61	563.86
OFFSET FROM CENTRELINE	-12.34	-11.9	-11.4	-9	-8.7	-8.2	-7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	10.41

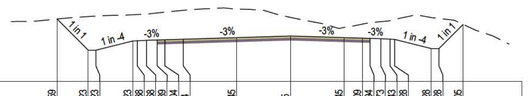
CH 15140



DATUM R.L. 561.00

DESIGN SURFACE LEVEL	565.057	562.414	562.414	563.014	563.029	563.044	563.06	563.185	563.29	563.185	563.149	563.134	563.113	563.053	563.068	562.468	562.468	564.339
DEPTH CUT - / FILL +	0	-2.72	-2.71	-2.11	-2.08	-2.04	-1.98	-1.79	-1.69	-1.63	-1.53	-1.48	-1.41	-1.3	-1.3	-1.7	-1.72	0
EXISTING SURFACE LEVEL	565.06	565.13	565.13	565.12	565.11	565.09	565.04	564.97	564.98	564.81	564.68	564.62	564.52	564.41	564.37	564.17	564.19	564.34
OFFSET FROM CENTRELINE	-14.54	-11.9	-11.4	-9	-8.7	-8.2	-7	-3.5	0	3.5	4.7	5.2	5.9	6.5	6.8	9.2	9.7	11.57

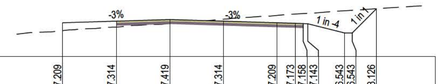
CH 15130



DATUM R.L. 561.00

DESIGN SURFACE LEVEL	565.059	563.023	563.023	563.623	563.638	563.669	563.704	563.74	563.845	563.95	563.845	563.809	563.794	563.773	563.743	563.728	563.128	564.705
DEPTH CUT - / FILL +	0	-2.2	-2.23	-1.71	-1.71	-1.76	-1.8	-1.88	-1.86	-1.22	-0.96	-0.92	-1.01	-1.11	-1.21	-1.3	-2.02	0
EXISTING SURFACE LEVEL	565.06	565.22	565.25	565.34	565.35	565.38	565.45	565.51	565.62	565.71	565.16	564.51	564.72	564.81	564.88	564.96	565.15	564.7
OFFSET FROM CENTRELINE	-15.24	-13.2	-12.7	-10.3	-10	-9.4	-8.7	-8.2	-7	-3.5	0	3.5	4.7	5.2	5.9	6.5	6.8	9.2	9.7	11.28

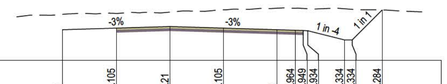
CH 15120



DATUM R.L. 555.00

DESIGN SURFACE LEVEL	557.209	557.314	557.419	557.314	557.209	557.173	557.158	557.143	556.543	556.543	558.126		
DEPTH CUT - / FILL +	0.51	0.39	0.26	-0.13	-0.48	-0.61	-0.65	-0.68	-1.45	-1.48	0		
EXISTING SURFACE LEVEL	556.7	556.92	557.16	557.44	557.69	557.78	557.81	557.82	557.99	558.02	558.13		
OFFSET FROM CENTRELINE	-7	-3.5	0	3.5	7	8.2	8.7	9	11.4	11.9	13.48		

CH 15210



DATUM R.L. 556.00

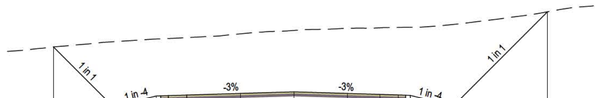
DESIGN SURFACE LEVEL	558	558.105	558.21	558.105	558	557.964	557.949	557.934	557.334	557.334	559.284		
DEPTH CUT - / FILL +	-1.01	-0.96	-0.94	-1.2	-1.4	-1.44	-1.44	-1.44	-2.03	-2	0		
EXISTING SURFACE LEVEL	559.01	559.06	559.15	559.3	559.4	559.4	559.39	559.37	559.37	559.33	559.28		
OFFSET FROM CENTRELINE	-7	-3.5	0	3.5	7	8.2	8.7	9	11.4	11.9	13.85		

CH 15200

DATUM R.L. 556.00

DESIGN SURFACE LEVEL	561.103	558.109	558.109	558.709	558.724	558.739	558.775	558.88	558.985	558.88	558.796	558.76	558.745	558.73	558.13	558.13	562.734	
DEPTH CUT - / FILL +	0	-3.17	-3.2	-2.73	-2.74	-2.75	-2.79	-2.88	-3.01	-3.28	-3.49	-3.6	-3.64	-3.68	-4.4	-4.42	0	
EXISTING SURFACE LEVEL	561.1	561.28	561.31	561.44	561.46	561.49	561.57	561.77	562	562.16	562.29	562.36	562.39	562.41	562.53	562.55	562.73	
OFFSET FROM CENTRELINE	-14.89	-11.9	-11.4	-9	-8.7	-8.2	-7	-3.5	0	3.5	6.3	7.5	8	8.3	10.7	11.2	15.8	

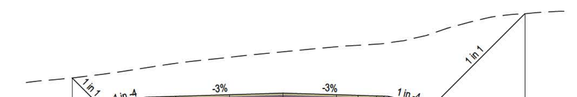
CH 15190



DATUM R.L. 557.00

DESIGN SURFACE LEVEL	562.676	558.868	558.868	559.468	559.483	559.498	559.534	559.639	559.744	559.639	559.576	559.54	559.525	559.51	558.91	558.91	564.965	
DEPTH CUT - / FILL +	0	-4.14	-4.17	-3.72	-3.72	-3.72	-3.75	-3.89	-4.01	-4.25	-4.35	-4.4	-4.43	-4.45	-5.19	-5.24	0	
EXISTING SURFACE LEVEL	562.68	563.01	563.04	563.19	563.2	563.22	563.28	563.52	563.75	563.89	563.92	563.94	563.95	563.96	564.1	564.15	564.97	
OFFSET FROM CENTRELINE	-15.71	-11.9	-11.4	-9	-8.7	-8.2	-7	-3.5	0	3.5	5.6	6.8	7.3	7.6	10	10.5	16.56	

CH 15180



DATUM R.L. 558.00

DESIGN SURFACE LEVEL	561.476	559.61	559.61	560.21	560.225	560.24	560.276	560.381	560.486	560.381	560.339	560.303	560.288	560.273	559.673	559.673	565.664	
DEPTH CUT - / FILL +	0	-2.09	-2.16	-1.92	-1.95	-2.01	-2.15	-2.44	-2.7	-3.13	-3.26	-3.38	-3.43	-3.49	-4.56	-4.72	0	
EXISTING SURFACE LEVEL	561.48	561.7	561.77	562.13	562.18	562.25	562.43	562.82	563.18	563.51	563.6	563.68	563.72	563.77	564.23	564.4	565.66	
OFFSET FROM CENTRELINE	-13.77	-11.9	-11.4	-9	-8.7	-8.2	-7	-3.5	0	3.5	4.9	6.1	6.6	6.9	9.3	9.8	15.79	

CH 15170

DATUM R.L. 551.00

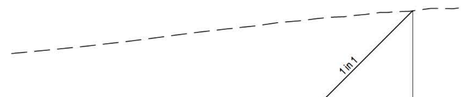
DESIGN SURFACE LEVEL	553.983	554.088	553.983	553.878	553.842	553.827	553.812	553.212	559.212	561.839
DEPTH CUT - / FILL +	-7.81	-7.68	-7.76	-7.82	-7.84	-7.85	-7.89	-8.46	-8.49	0
EXISTING SURFACE LEVEL	561.79	561.77	561.74	561.7	561.68	561.68	561.7	561.68	561.71	561.84
OFFSET FROM CENTRELINE	-3.5	0	3.5	7	8.2	8.7	9	11.4	11.9	20.53

CH 15250

DATUM R.L. 552.00

DESIGN SURFACE LEVEL	554.841	554.946	554.841	554.736	554.7	554.685	554.67	554.07	554.07	562.267
DEPTH CUT - / FILL +	-7.72	-7.5	-7.49	-7.56	-7.57	-7.59	-7.62	-8.19	-8.2	0
EXISTING SURFACE LEVEL	562.56	562.44	562.33	562.29	562.27	562.27	562.28	562.26	562.27	562.27
OFFSET FROM CENTRELINE	-3.5	0	3.5	7	8.2	8.7	9	11.4	11.9	20.1

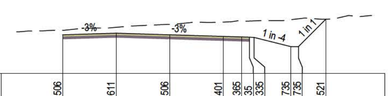
CH 15240



DATUM R.L. 553.00

DESIGN SURFACE LEVEL	555.681	555.786	555.681	555.576	555.54	555.525	555.51	554.91	554.91	562.686
DEPTH CUT - / FILL +	-4.51	-4.79	-5.33	-5.87	-6.03	-6.11	-6.15	-7.05	-7.09	0
EXISTING SURFACE LEVEL	560.19	560.57	561.01	561.44	561.57	561.63	561.66	561.96	562	562.69
OFFSET FROM CENTRELINE	-3.5	0	3.5	7	8.2	8.7	9	11.4	11.9	19.68

CH 15230



DATUM R.L. 554.00

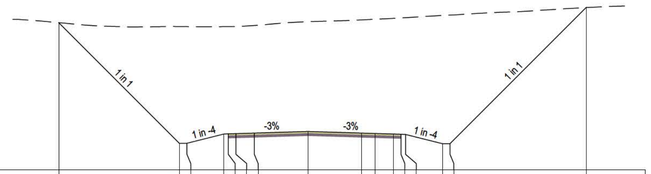
DESIGN SURFACE LEVEL	556.506	556.611	556.506	556.401	556.365	556.35	556.335	555.735	555.735	557.521
DEPTH CUT - / FILL +	-0.3	-0.38	-0.68	-0.93	-1.05	-1.05	-1.08	-1.76	-1.82	0
EXISTING SURFACE LEVEL	556.8	556.99	557.19	557.33	557.42	557.4	557.41	557.49	557.55	557.52
OFFSET FROM CENTRELINE	-3.5	0	3.5	7	8.2	8.7	9	11.4	11.9	13.69

CH 15220

CROSS SECTIONS

ROAD04

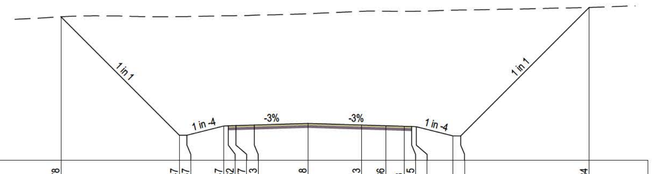
12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:4AM



DATUM R.L. 548.00

DESIGN SURFACE LEVEL	557.596		549.724	549.724	550.324	550.339	550.354	550.39	550.495	550.39	550.364	550.328	550.313	550.298	549.698	549.698	558.589	
DEPTH CUT - / FILL +	0		-7.62	-7.61	-7.01	-7	-6.99	-7.02	-7.16	-7.38	-7.45	-7.55	-7.59	-7.62	-8.37	-8.39	0	
EXISTING SURFACE LEVEL	557.6		557.34	557.34	557.34	557.34	557.34	557.41	557.66	557.77	557.82	557.88	557.9	557.92	556.07	556.09	558.59	
OFFSET FROM CENTRELINE	-16.27		-8.4	-7.9	-5.5	-5.2	-4.7	-3.5	0	3.5	4.38	5.57	6.08	6.38	8.78	9.28	18.17	

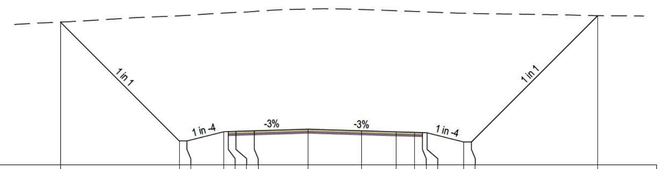
CH 15290



DATUM R.L. 549.00

DESIGN SURFACE LEVEL	558.378		550.647	550.647	551.247	551.262	551.277	551.313	551.418	551.313	551.266	551.23	551.215	551.2	550.6	550.6	558.984	
DEPTH CUT - / FILL +	0		-7.74	-7.75	-7.19	-7.18	-7.17	-7.17	-7.16	-7.42	-7.47	-7.5	-7.52	-7.54	-8.21	-8.22	0	
EXISTING SURFACE LEVEL	558.38		558.39	558.39	558.44	558.44	558.45	558.48	558.58	558.73	558.74	558.73	558.73	558.74	558.81	558.82	558.98	
OFFSET FROM CENTRELINE	-16.13		-8.4	-7.9	-5.5	-5.2	-4.7	-3.5	0	3.5	5.08	6.28	6.78	7.08	9.48	9.98	18.36	

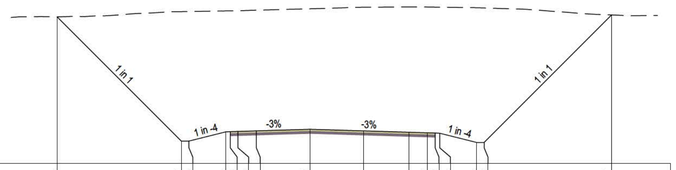
CH 15280



DATUM R.L. 550.00

DESIGN SURFACE LEVEL	559.313		551.554	551.554	552.154	552.169	552.184	552.22	552.325	552.22	552.151	552.115	552.1	552.065	551.485	551.485	559.732	
DEPTH CUT - / FILL +	0		-8.17	-8.2	-7.75	-7.75	-7.76	-7.79	-7.84	-7.91	-7.9	-7.89	-7.89	-7.89	-8.4	-8.39	0	
EXISTING SURFACE LEVEL	559.31		559.72	559.75	559.9	559.92	559.95	560.01	560.16	560.13	560.05	560.01	559.99	559.97	559.89	559.88	559.73	
OFFSET FROM CENTRELINE	-16.16		-8.4	-7.9	-5.5	-5.2	-4.7	-3.5	0	3.5	5.78	6.98	7.48	7.78	10.18	10.68	18.92	

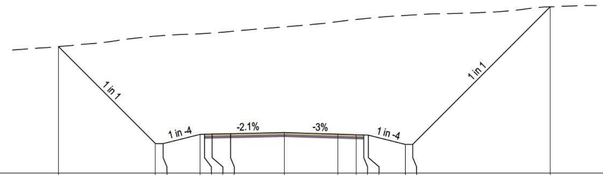
CH 15270



DATUM R.L. 551.00

DESIGN SURFACE LEVEL	560.554		552.444	552.444	553.044	553.059	553.074	553.11	553.215	553.11	553.02	552.984	552.969	552.954	552.354	552.354	560.677	
DEPTH CUT - / FILL +	0		-8.45	-8.45	-7.89	-7.88	-7.87	-7.87	-7.86	-8.07	-8.17	-8.21	-8.22	-8.23	-8.79	-8.78	0	
EXISTING SURFACE LEVEL	560.55		560.89	560.9	560.94	560.94	560.95	560.98	561.08	561.18	561.2	561.19	561.19	561.18	561.15	561.13	560.68	
OFFSET FROM CENTRELINE	-16.51		-8.4	-7.9	-5.5	-5.2	-4.7	-3.5	0	3.5	6.47	7.67	8.18	8.47	10.88	11.38	19.7	

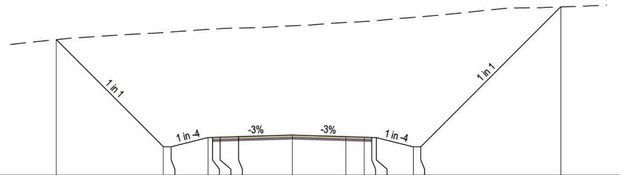
CH 15260



DATUM R.L. 544.00

DESIGN SURFACE LEVEL	552.249		545.915	545.915	546.515	546.53	546.54	546.565	546.639	546.534	546.498	546.493	546.488	545.868	545.868	554.844		
DEPTH CUT - / FILL +	0		-7.02	-7.05	-6.67	-6.67	-6.59	-6.67	-6.89	-7.34	-7.52	-7.58	-7.65	-8.41	-8.44	0		
EXISTING SURFACE LEVEL	552.25		552.93	552.97	553.08	553.1	553.13	553.24	553.53	553.88	554.02	554.07	554.1	554.28	554.31	554.84		
OFFSET FROM CENTRELINE	-14.73		-8.4	-7.9	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	17.38		

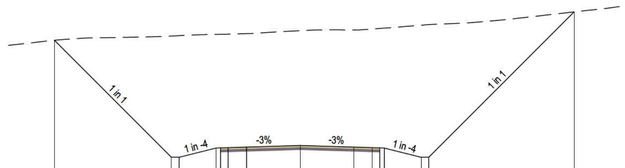
CH 15330



DATUM R.L. 545.00

DESIGN SURFACE LEVEL	553.849		546.857	546.857	547.457	547.472	547.487	547.523	547.627	547.522	547.486	547.471	547.456	546.856	546.856	555.986		
DEPTH CUT - / FILL +	0		-7.46	-7.49	-7.07	-7.07	-7.08	-7.09	-7.13	-7.45	-7.55	-7.6	-7.63	-8.45	-8.49	0		
EXISTING SURFACE LEVEL	553.85		554.31	554.35	554.52	554.54	554.57	554.61	554.76	554.97	555.03	555.07	555.09	555.3	555.34	555.99		
OFFSET FROM CENTRELINE	-15.39		-8.4	-7.9	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	17.53		

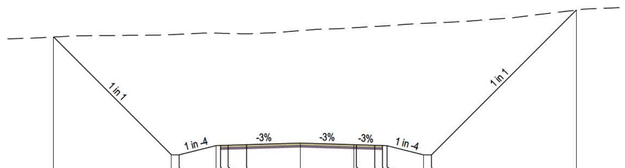
CH 15320



DATUM R.L. 546.00

DESIGN SURFACE LEVEL	555.468		547.829	547.829	548.429	548.444	548.459	548.495	548.6	548.495	548.459	548.444	548.429	547.829	547.829	557.319		
DEPTH CUT - / FILL +	0		-7.91	-7.94	-7.42	-7.41	-7.41	-7.4	-7.49	-7.64	-7.74	-7.79	-7.83	-8.62	-8.66	0		
EXISTING SURFACE LEVEL	555.47		555.74	555.77	555.85	555.86	555.86	555.9	556.09	556.14	556.2	556.24	556.26	556.45	556.49	557.32		
OFFSET FROM CENTRELINE	-16.04		-8.4	-7.9	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	17.89		

CH 15310



DATUM R.L. 547.00

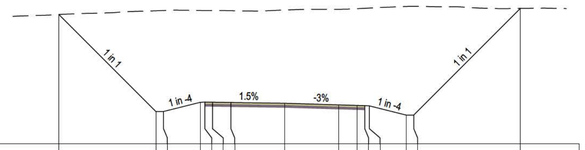
DESIGN SURFACE LEVEL	556.475		548.785	548.785	549.385	549.399	549.415	549.451	549.556	549.451	549.445	549.409	549.394	548.779	548.779	558.232		
DEPTH CUT - / FILL +	0		-7.84	-7.87	-7.34	-7.34	-7.29	-7.24	-7.34	-7.63	-7.65	-7.75	-7.79	-8.59	-8.61	0		
EXISTING SURFACE LEVEL	556.47		556.63	556.65	556.73	556.72	556.71	556.69	556.89	557.08	557.09	557.16	557.19	557.37	557.39	558.23		
OFFSET FROM CENTRELINE	-16.09		-8.4	-7.9	-5.5	-5.2	-4.7	-3.5	0	3.5	3.67	4.87	5.38	8.08	8.58	18.03		

CH 15300

CROSS SECTIONS

ROAD04

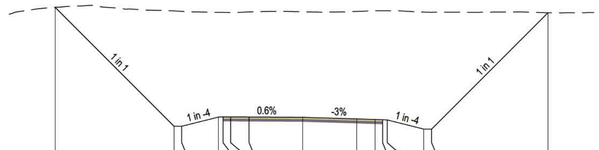
12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:4AM



DATUM R.L. 540.00

DESIGN SURFACE LEVEL	548.455	542.123	542.723	542.723	542.708	542.701	542.713	542.662	542.556	542.52	542.505	542.49	541.89	541.89	548.852
DEPTH CUT - / FILL +	0	-6.57	-6.59	-6	-5.98	-5.98	-5.99	-6.09	-6.24	-6.31	-6.35	-6.38	-7.09	-7.1	0
EXISTING SURFACE LEVEL	548.46	548.7	548.71	548.72	548.72	548.71	548.7	548.75	548.8	548.83	548.86	548.87	548.98	548.99	548.85	0
OFFSET FROM CENTRELINE	-14.75	-8.42	-7.92	-5.52	-5.22	-4.72	-3.52	0	3.52	4.72	5.22	5.52	7.92	8.42	15.38

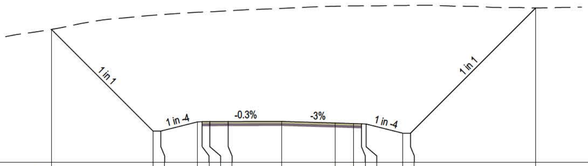
CH 15370



DATUM R.L. 541.00

DESIGN SURFACE LEVEL	550.838	543.071	543.071	543.971	543.986	543.993	543.976	543.956	543.951	543.515	543.5	543.485	542.885	542.885	550.481
DEPTH CUT - / FILL +	0	-7.53	-7.5	-6.84	-6.82	-6.81	-6.86	-6.89	-7.02	-7.1	-7.11	-7.13	-7.64	-7.63	0
EXISTING SURFACE LEVEL	550.84	550.6	550.57	550.51	550.5	550.49	550.53	550.54	550.57	550.61	550.61	550.61	550.52	550.51	550.48	0
OFFSET FROM CENTRELINE	-16.18	-8.41	-7.91	-5.51	-5.21	-4.71	-3.51	0	3.51	4.71	5.21	5.51	7.91	8.41	16

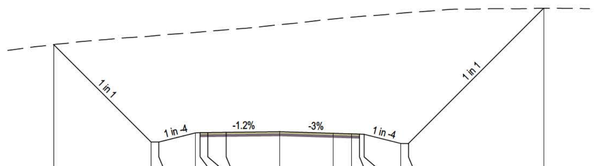
CH 15360



DATUM R.L. 542.00

DESIGN SURFACE LEVEL	550.657	544.019	544.019	544.619	544.634	544.635	544.639	544.65	544.545	544.509	544.494	544.479	543.879	543.879	552.054
DEPTH CUT - / FILL +	0	-7.56	-7.6	-7.16	-7.15	-7.15	-7.23	-7.38	-7.62	-7.68	-7.7	-7.72	-8.33	-8.34	0
EXISTING SURFACE LEVEL	550.66	551.58	551.61	551.78	551.79	551.8	551.87	552.03	552.16	552.19	552.19	552.2	552.21	552.22	552.05	0
OFFSET FROM CENTRELINE	-15.04	-9.4	-7.9	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	16.57

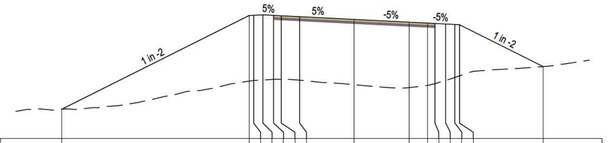
CH 15350



DATUM R.L. 543.00

DESIGN SURFACE LEVEL	551.329	544.967	544.967	546.567	546.592	546.598	546.602	546.644	546.539	546.503	546.488	546.473	544.873	544.873	553.699
DEPTH CUT - / FILL +	0	-6.92	-6.97	-6.55	-6.57	-6.61	-6.69	-6.98	-7.46	-7.61	-7.67	-7.71	-8.5	-8.55	0
EXISTING SURFACE LEVEL	551.33	551.88	551.93	552.12	552.15	552.2	552.29	552.63	553	553.12	553.16	553.19	553.38	553.42	553.7	0
OFFSET FROM CENTRELINE	-14.76	-9.4	-7.9	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	17.23

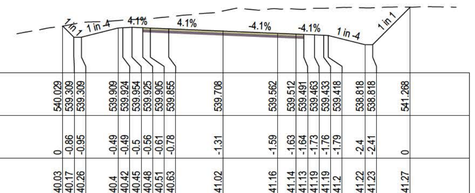
CH 15340



DATUM R.L. 531.00

DESIGN SURFACE LEVEL	532.901	539.018	539.033	539.063	539.028	539.003	538.942	538.763	538.594	538.524	538.499	538.464	538.44	538.419	535.683
DEPTH CUT - / FILL +	0	4.28	4.26	4.25	4.18	4.15	4.15	4.26	4.27	4.07	3.92	3.88	3.46	3.34	0
EXISTING SURFACE LEVEL	532.9	534.74	534.77	534.81	534.85	534.85	534.9	534.5	534.31	534.46	534.58	534.78	534.88	535.08	535.68	0
OFFSET FROM CENTRELINE	-19.1	-6.87	-6.57	-5.97	-5.27	-4.77	-3.97	0	3.57	4.77	5.27	5.97	6.57	6.87	12.34

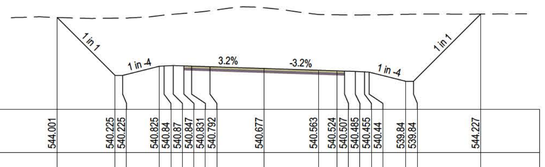
CH 15410



DATUM R.L. 537.00

DESIGN SURFACE LEVEL	540.029	539.309	539.309	539.909	539.924	539.954	539.925	539.895	539.895	539.708	539.592	539.512	539.491	539.463	539.433	539.418	538.818	538.818	541.268
DEPTH CUT - / FILL +	0	-0.86	-0.95	-0.49	-0.49	-0.5	-0.56	-0.61	-0.79	-1.31	-1.59	-1.63	-1.64	-1.73	-1.76	-1.79	-2.4	-2.41	0
EXISTING SURFACE LEVEL	540.03	540.17	540.26	540.4	540.42	540.45	540.48	540.51	540.63	541.02	541.16	541.14	541.13	541.19	541.19	541.2	541.22	541.23	541.27
OFFSET FROM CENTRELINE	-10.48	-9.76	-9.26	-6.86	-6.56	-5.96	-5.26	-4.76	-3.96	0	3.56	4.76	5.26	5.96	6.56	6.86	9.26	9.76	12.21

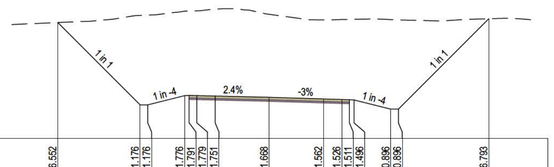
CH 15400



DATUM R.L. 538.00

DESIGN SURFACE LEVEL	544.001	540.225	540.225	540.825	540.84	540.87	540.847	540.831	540.792	540.677	540.553	540.524	540.507	540.485	540.455	540.44	539.84	539.84	544.227
DEPTH CUT - / FILL +	0	-3.74	-3.74	-3.3	-3.32	-3.34	-3.43	-3.48	-3.65	-3.96	-3.64	-3.66	-3.67	-3.68	-3.72	-3.74	-4.37	-4.38	0
EXISTING SURFACE LEVEL	544	543.96	543.96	544.13	544.16	544.21	544.27	544.31	544.45	544.64	544.2	544.18	544.17	544.17	544.17	544.18	544.21	544.22	544.23
OFFSET FROM CENTRELINE	-13.52	-9.74	-9.24	-6.84	-6.54	-5.94	-5.24	-4.74	-3.54	0	3.54	4.74	5.24	5.94	6.54	6.84	9.24	9.74	14.13

CH 15390



DATUM R.L. 539.00

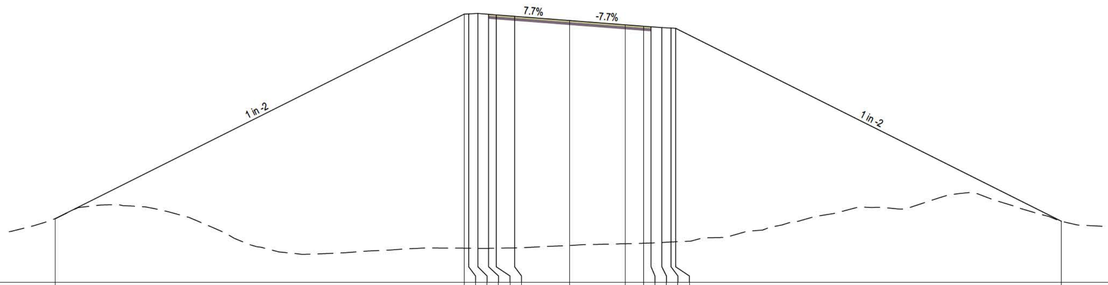
DESIGN SURFACE LEVEL	546.552	541.176	541.176	541.776	541.791	541.779	541.751	541.688	541.562	541.526	541.511	541.496	540.896	540.896	546.793
DEPTH CUT - / FILL +	0	-5.84	-5.86	-5.51	-5.51	-5.53	-5.67	-5.42	-5.16	-5.22	-5.24	-5.26	-5.84	-5.82	0
EXISTING SURFACE LEVEL	546.55	547.01	547.03	547.29	547.3	547.31	547.42	547.08	546.72	546.74	546.75	546.76	546.74	546.72	546.79	0
OFFSET FROM CENTRELINE	-13.81	-9.43	-7.93	-5.53	-5.23	-4.73	-3.53	0	3.53	4.73	5.23	5.53	7.93	8.43	14.33

CH 15380

CROSS SECTIONS

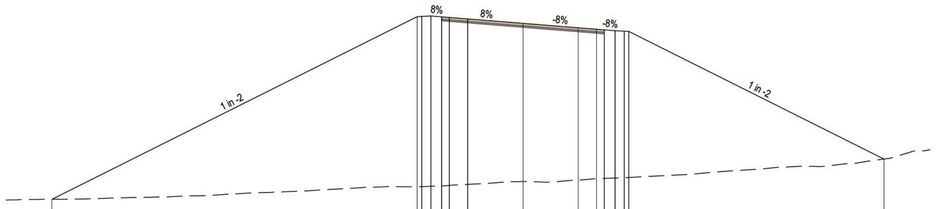
ROAD04

12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:4AM



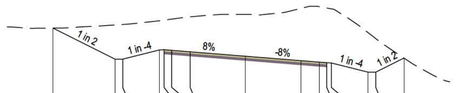
DATUM R.L. 519.00

| | | |



DATUM R.L. 520.00

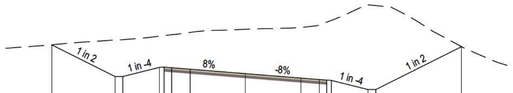
| | | |



DATUM R.L. 525.00

DESIGN SURFACE LEVEL	529.865	527.842	527.842	528.442	528.457	528.471	528.321	528.032	527.743	527.647	527.607	527.592	526.892	526.892	527.912			
DEPTH CUT - / FILL +	0	-2.23	-2.26	-1.91	-1.93	-1.94	-2.04	-2.29	-2.73	-3.41	-3.62	-3.57	-3.53	-2.98	-2.19	0		
EXISTING SURFACE LEVEL	529.87	530.07	530.1	530.35	530.39	530.45	530.6	530.6	530.76	531.15	531.27	531.18	531.12	529.57	529.18	527.91		
OFFSET FROM CENTRELINE	-12.56	-8.51	-8.01	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	5.61	8.01	8.51	10.35			

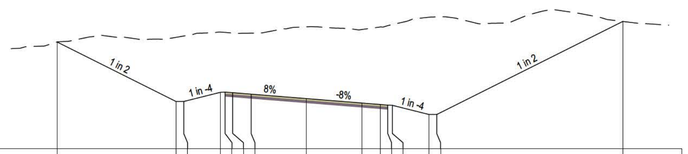
CH 15550



DATUM R.L. 526.00

DESIGN SURFACE LEVEL	530.525	528.454	528.454	529.054	529.089	529.099	528.933	528.644	528.355	528.299	528.219	528.204	527.604	527.604	530.405			
DEPTH CUT - / FILL +	0	-2.38	-2.41	-2.04	-2.06	-2.06	-2.14	-2.89	-3.31	-3.56	-3.79	-3.92	-5.53	-5.48	0			
EXISTING SURFACE LEVEL	530.52	530.84	530.86	531.09	531.13	531.19	531.33	531.54	531.66	531.82	532.01	532.12	533.13	533.08	530.41			
OFFSET FROM CENTRELINE	-12.65	-8.51	-8.01	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	5.61	8.01	8.51	14.11			

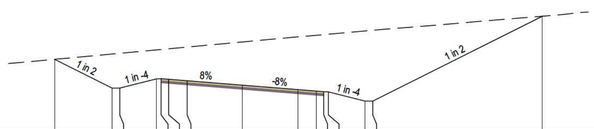
CH 15540



DATUM R.L. 526.00

DESIGN SURFACE LEVEL	532.974	529.089	529.099	529.689	529.704	529.714	529.568	529.279	528.991	528.895	528.855	528.84	528.24	528.24	534.313			
DEPTH CUT - / FILL +	0	-4.19	-4.27	-3.93	-3.89	-3.86	-3.98	-4.68	-4.8	-5.06	-5.18	-5.27	-6.35	-6.37	0			
EXISTING SURFACE LEVEL	532.97	533.28	533.36	533.62	533.6	533.55	533.55	533.96	533.79	533.95	534.04	534.11	534.59	534.61	534.31			
OFFSET FROM CENTRELINE	-16.28	-8.51	-8.01	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	5.61	8.01	8.51	20.66			

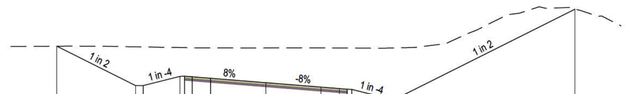
CH 15530



DATUM R.L. 527.00

DESIGN SURFACE LEVEL	531.627	528.749	528.749	530.349	530.364	530.374	530.228	529.939	529.65	529.554	529.514	529.499	528.899	528.899	534.438			
DEPTH CUT - / FILL +	0	-2.22	-2.27	-1.89	-1.9	-1.89	-2.2	-2.82	-3.44	-3.64	-3.72	-3.77	-4.58	-4.62	0			
EXISTING SURFACE LEVEL	531.63	531.97	532.02	532.24	532.27	532.31	532.42	532.76	533.09	533.19	533.24	533.26	533.48	533.52	534.44			
OFFSET FROM CENTRELINE	-12.27	-8.51	-8.01	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	5.61	8.01	8.51	19.59			

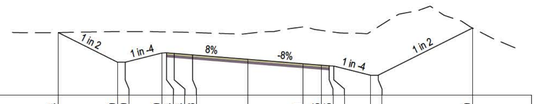
CH 15520



DATUM R.L. 523.00

DESIGN SURFACE LEVEL	528.201	525.633	525.633	528.233	528.243	528.208	528.112	525.823	525.534	525.438	525.398	525.393	524.783	524.783	530.623			
DEPTH CUT - / FILL +	0	-2.53	-2.52	-1.88	-1.86	-1.89	-1.98	-2.27	-2.56	-2.65	-2.69	-2.7	-3.3	-3.31	0			
EXISTING SURFACE LEVEL	528.2	528.16	528.16	528.12	528.11	528.1	528.1	528.09	528.1	528.08	528.08	528.08	528.08	528.09	530.62			
OFFSET FROM CENTRELINE	-13.65	-8.51	-8.01	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	5.61	8.01	8.51	20.19			

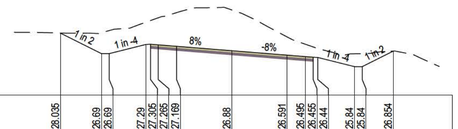
CH 15590



DATUM R.L. 524.00

DESIGN SURFACE LEVEL	528.084	526.149	526.149	528.749	528.764	528.724	528.628	526.34	526.051	525.955	525.915	525.9	525.3	525.3	528.379			
DEPTH CUT - / FILL +	0	-2	-2	-1.38	-1.38	-1.39	-1.46	-1.68	-2.4	-2.27	-2.24	-2.21	-2.84	-3.16	0			
EXISTING SURFACE LEVEL	528.08	528.15	528.15	528.13	528.13	528.12	528.09	528.02	528.46	528.22	528.16	528.11	528.14	528.46	528.38			
OFFSET FROM CENTRELINE	-12.38	-8.51	-8.01	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	5.61	8.01	8.51	14.67			

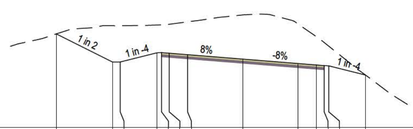
CH 15580



DATUM R.L. 524.00

DESIGN SURFACE LEVEL	528.035	526.69	526.69	527.79	527.805	527.805	527.169	526.88	526.591	526.495	526.455	526.44	526.84	526.84	526.854			
DEPTH CUT - / FILL +	0	-1.36	-1.5	-1.45	-1.44	-1.76	-2.2	-2.66	-1.19	-0.8	-0.67	-0.58	-0.84	-0.85	0			
EXISTING SURFACE LEVEL	528.03	528.05	528.19	528.74	528.75	529.03	529.36	529.54	527.78	527.3	527.13	527.02	526.68	526.69	526.85			
OFFSET FROM CENTRELINE	-11.2	-8.51	-8.01	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	5.61	8.01	8.51	10.54			

CH 15570



DATUM R.L. 523.00

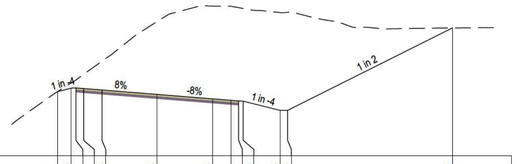
DESIGN SURFACE LEVEL	529.089	527.254	527.254	527.854	527.869	527.829	527.733	527.444	527.155	527.059	527.019	527.004	526.405					
DEPTH CUT - / FILL +	0	-2.37	-2.37	-1.81	-1.81	-1.89	-2.14	-2.88	-2.58	-1.84	-1.51	-1.28	0					
EXISTING SURFACE LEVEL	529.09	529.62	529.62	529.67	529.68	529.72	529.87	530.33	529.73	528.9	528.53	528.29	526.41					
OFFSET FROM CENTRELINE	-12.18	-8.51	-8.01	-5.61	-5.31	-4.81	-3.61	0	3.61	4.81	5.31	5.61	8.01					

CH 15560

CROSS SECTIONS

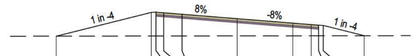
ROAD04

12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:5AM



DATUM R.L. 520.00

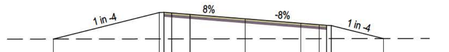
| | | |



DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.951	521.502	521.577	521.477	521.381	521.092	520.803	520.707	520.667	520.652	519.981
DEPTH CUT - / FILL +	0	1.54	1.58	1.52	1.42	1.12	0.83	0.73	0.69	0.68	0
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.97	519.97	519.98	519.98	519.98	519.98
OFFSET FROM CENTRELINE	-11.81	-5.61	-5.31	-4.41	-3.61	0	3.61	4.81	5.31	5.61	8.3

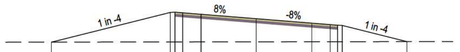
CH 15730



DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.952	521.695	521.77	521.66	521.564	521.275	520.986	520.89	520.85	520.835	519.984
DEPTH CUT - / FILL +	0	1.72	1.74	1.7	1.6	1.3	1.01	0.91	0.87	0.86	0
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.97	519.97	519.98	519.98	519.98	519.98	519.98
OFFSET FROM CENTRELINE	-12.54	-5.61	-5.31	-4.41	-3.61	0	3.61	4.81	5.31	5.61	9.02

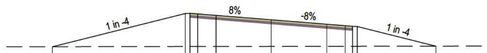
CH 15720



DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.953	521.892	521.977	521.87	521.771	521.482	521.193	521.097	521.057	521.042	519.987
DEPTH CUT - / FILL +	0	1.93	1.94	1.9	1.8	1.51	1.22	1.12	1.08	1.06	0
EXISTING SURFACE LEVEL	519.95	519.96	519.97	519.97	519.97	519.97	519.98	519.98	519.98	519.98	519.99
OFFSET FROM CENTRELINE	-13.36	-5.61	-5.31	-4.41	-3.61	0	3.61	4.81	5.31	5.61	9.63

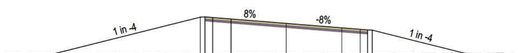
CH 15710



DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.955	522.123	522.198	522.098	522.002	521.713	521.424	521.328	521.288	521.273	519.991
DEPTH CUT - / FILL +	0	2.16	2.17	2.13	2.03	1.74	1.44	1.35	1.31	1.29	0
EXISTING SURFACE LEVEL	519.95	519.97	519.97	519.97	519.97	519.98	519.98	519.98	519.98	519.98	519.99
OFFSET FROM CENTRELINE	-14.28	-5.61	-5.31	-4.41	-3.61	0	3.61	4.81	5.31	5.61	10.74

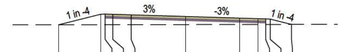
CH 15700



DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.956	522.377	522.392	522.302	522.296	521.988	521.679	521.583	521.543	521.528	519.995
DEPTH CUT - / FILL +	0	2.41	2.42	2.38	2.28	1.99	1.7	1.6	1.56	1.54	0
EXISTING SURFACE LEVEL	519.96	519.97	519.97	519.97	519.97	519.98	519.98	519.99	519.99	519.99	520
OFFSET FROM CENTRELINE	-15.29	-5.61	-5.31	-4.41	-3.61	0	3.61	4.81	5.31	5.61	11.74

CH 15690



DATUM R.L. 518.00

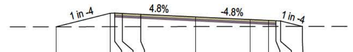
DESIGN SURFACE LEVEL	519.952	520.634	520.649	520.634	520.599	520.493	520.387	520.351	520.336	520.321	519.974
DEPTH CUT - / FILL +	0	0.68	0.69	0.68	0.64	0.53	0.42	0.38	0.36	0.35	0
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97
OFFSET FROM CENTRELINE	-8.27	-5.54	-5.24	-4.74	-3.84	0	3.54	4.74	5.24	5.54	6.93

CH 15790

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.951	520.722	520.737	520.717	520.671	520.533	520.395	520.349	520.33	520.315	519.974
DEPTH CUT - / FILL +	0	0.77	0.78	0.76	0.71	0.57	0.43	0.38	0.36	0.34	0
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97
OFFSET FROM CENTRELINE	-8.64	-5.55	-5.25	-4.75	-3.95	0	3.55	4.75	5.25	5.55	6.91

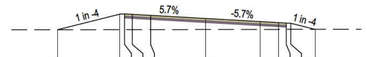
CH 15780



DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.951	520.833	520.848	520.824	520.767	520.597	520.427	520.37	520.346	520.331	519.975
DEPTH CUT - / FILL +	0	0.88	0.89	0.87	0.81	0.63	0.46	0.4	0.37	0.36	0
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97
OFFSET FROM CENTRELINE	-9.09	-5.57	-5.27	-4.77	-3.97	0	3.57	4.77	5.27	5.57	6.99

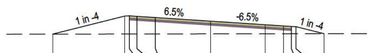
CH 15770



DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.951	520.969	520.994	520.955	520.861	520.685	520.483	520.415	520.387	520.372	519.976
DEPTH CUT - / FILL +	0	1.01	1.03	0.93	0.93	0.72	0.51	0.44	0.41	0.4	0
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97	519.98
OFFSET FROM CENTRELINE	-9.65	-5.58	-5.28	-4.78	-3.98	0	3.58	4.78	5.28	5.58	7.16

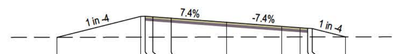
CH 15760



DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.951	521.128	521.143	521.11	521.02	520.797	520.562	520.484	520.451	520.436	519.977
DEPTH CUT - / FILL +	0	1.17	1.18	1.15	1.07	0.83	0.59	0.51	0.48	0.46	0
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97	519.98
OFFSET FROM CENTRELINE	-10.3	-5.59	-5.29	-4.79	-3.99	0	3.59	4.79	5.29	5.59	7.43

CH 15750



DATUM R.L. 518.00

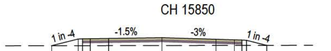
DESIGN SURFACE LEVEL	519.951	521.312	521.327	521.288	521.2	520.933	520.665	520.576	520.539	520.524	519.979
DEPTH CUT - / FILL +	0	1.36	1.37	1.33	1.24	0.97	0.69	0.6	0.56	0.55	0
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.98	519.98
OFFSET FROM CENTRELINE	-11.04	-5.6	-5.3	-4.8	-3.6	0	3.6	4.8	5.3	5.6	7.78

CH 15740

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.954	520.34	520.365	520.367	520.365	520.477	520.372	520.336	520.321	520.306	519.974
DEPTH CUT - / FILL +	0	0.38	0.4	0.41	0.44	0.51	0.4	0.37	0.35	0.33	0
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97
OFFSET FROM CENTRELINE	-7.05	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.83

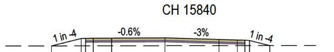
CH 15850



DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.953	520.386	520.401	520.408	520.426	520.477	520.372	520.336	520.321	520.306	519.974
DEPTH CUT - / FILL +	0	0.43	0.44	0.45	0.47	0.51	0.4	0.38	0.35	0.33	0
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97
OFFSET FROM CENTRELINE	-7.23	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.83

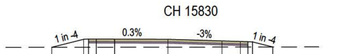
CH 15840



DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.953	520.432	520.447	520.45	520.457	520.476	520.371	520.335	520.32	520.305	519.974
DEPTH CUT - / FILL +	0	0.48	0.49	0.49	0.5	0.51	0.4	0.36	0.35	0.33	0
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97
OFFSET FROM CENTRELINE	-7.42	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.83

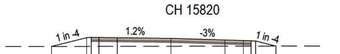
CH 15830



DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.953	520.478	520.493	520.491	520.487	520.476	520.371	520.335	520.32	520.305	519.974
DEPTH CUT - / FILL +	0	0.52	0.54	0.53	0.53	0.51	0.4	0.36	0.35	0.33	0
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97
OFFSET FROM CENTRELINE	-7.61	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.83

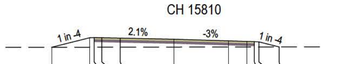
CH 15820



DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.952	520.524	520.539	520.533	520.519	520.476	520.371	520.335	520.32	520.305	519.974
DEPTH CUT - / FILL +	0	0.57	0.58	0.58	0.56	0.51	0.4	0.36	0.35	0.33	0
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97
OFFSET FROM CENTRELINE	-7.8	-5.52	-5.22	-4.72	-3.52	0	3.52	4.72	5.22	5.52	6.84

CH 15810



DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.952	520.571	520.588	520.576	520.55	520.476	520.37	520.334	520.319	520.304	519.974
DEPTH CUT - / FILL +	0	0.62	0.63	0.62	0.59	0.51	0.4	0.36	0.35	0.33	0
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97
OFFSET FROM CENTRELINE	-8.01	-5.53	-5.23	-4.73	-3.53	0	3.53	4.73	5.23	5.53	6.85

CH 15800

CROSS SECTIONS

ROAD04

12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:5AM

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.954	520.307	520.307	520.337	520.337	520.373	520.478	520.373	520.337	520.337	520.322	520.307	519.974				
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.41	0.51	0.4	0.37	0.35	0.35	0.37	0.33	0				
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97	519.97	519.97				
OFFSET FROM CENTRELINE	-6.91	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	5.5	6.83					

CH 15910

DATUM R.L. 518.00

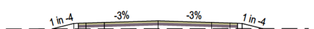
DESIGN SURFACE LEVEL	519.954	520.307	520.307	520.337	520.337	520.373	520.478	520.373	520.337	520.337	520.322	520.307	519.974				
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.41	0.51	0.4	0.37	0.35	0.35	0.37	0.33	0				
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97	519.97	519.97				
OFFSET FROM CENTRELINE	-6.91	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	5.5	6.83					

CH 15900

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.954	520.307	520.307	520.337	520.337	520.373	520.478	520.373	520.337	520.337	520.322	520.307	519.974				
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.41	0.51	0.4	0.37	0.35	0.35	0.37	0.33	0				
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97	519.97	519.97				
OFFSET FROM CENTRELINE	-6.91	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	5.5	6.83					

CH 15890



DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.954	520.307	520.307	520.337	520.337	520.373	520.478	520.373	520.337	520.337	520.322	520.307	519.974				
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.41	0.51	0.4	0.37	0.35	0.35	0.37	0.33	0				
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97	519.97	519.97				
OFFSET FROM CENTRELINE	-6.91	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	5.5	6.83					

CH 15880

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.954	520.306	520.321	520.336	520.372	520.477	520.372	520.336	520.321	520.306	519.974						
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.41	0.51	0.4	0.37	0.35	0.35	0.33	0					
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97	519.97					
OFFSET FROM CENTRELINE	-6.91	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	5.5	6.83					

CH 15870

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.954	520.306	520.321	520.336	520.372	520.477	520.372	520.336	520.321	520.306	519.974						
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.41	0.51	0.4	0.37	0.35	0.35	0.33	0					
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97	519.97					
OFFSET FROM CENTRELINE	-6.91	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	5.5	6.83					

CH 15860

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.955	520.309	520.324	520.339	520.375	520.48	520.375	520.339	520.324	520.309	519.975						
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.42	0.52	0.4	0.37	0.35	0.34	0						
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97						
OFFSET FROM CENTRELINE	-6.92	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.84						

CH 15970

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.954	520.308	520.323	520.338	520.374	520.479	520.374	520.338	520.323	520.308	519.975						
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.42	0.51	0.4	0.37	0.35	0.34	0						
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97						
OFFSET FROM CENTRELINE	-6.92	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.84						

CH 15960

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.954	520.308	520.323	520.338	520.374	520.479	520.374	520.338	520.323	520.308	519.975						
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.41	0.51	0.4	0.37	0.35	0.34	0						
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97						
OFFSET FROM CENTRELINE	-6.92	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.83						

CH 15950

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.954	520.308	520.323	520.338	520.374	520.479	520.374	520.338	520.323	520.308	519.974						
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.41	0.51	0.4	0.37	0.35	0.34	0						
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97						
OFFSET FROM CENTRELINE	-6.91	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.83						

CH 15940

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.954	520.308	520.323	520.338	520.374	520.479	520.374	520.338	520.323	520.308	519.975						
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.41	0.51	0.4	0.37	0.35	0.34	0						
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97						
OFFSET FROM CENTRELINE	-6.91	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.83						

CH 15930

DATUM R.L. 518.00

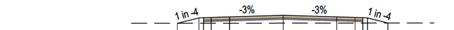
DESIGN SURFACE LEVEL	519.954	520.308	520.323	520.338	520.374	520.479	520.374	520.338	520.323	520.308	519.974						
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.41	0.51	0.4	0.37	0.35	0.34	0						
EXISTING SURFACE LEVEL	519.95	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97						
OFFSET FROM CENTRELINE	-6.91	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.83						

CH 15920

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.958	520.31	520.325	520.34	520.376	520.481	520.376	520.34	520.325	520.31	519.975						
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.42	0.52	0.41	0.37	0.35	0.34	0						
EXISTING SURFACE LEVEL	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97	519.98						
OFFSET FROM CENTRELINE	-6.91	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.84						

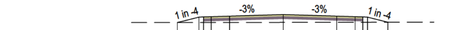
CH 16030



DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.958	520.31	520.325	520.34	520.376	520.481	520.376	520.34	520.325	520.31	519.975						
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.42	0.52	0.41	0.37	0.35	0.34	0						
EXISTING SURFACE LEVEL	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97	519.98						
OFFSET FROM CENTRELINE	-6.91	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.84						

CH 16020



DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.957	520.31	520.325	520.34	520.376	520.481	520.376	520.34	520.325	520.31	519.975						
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.42	0.52	0.41	0.37	0.35	0.34	0						
EXISTING SURFACE LEVEL	519.96	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.98						
OFFSET FROM CENTRELINE	-6.91	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.84						

CH 16010

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.956	520.309	520.324	520.339	520.375	520.48	520.375	520.339	520.324	520.309	519.975						
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.42	0.52	0.41	0.37	0.35	0.34	0						
EXISTING SURFACE LEVEL	519.96	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97						
OFFSET FROM CENTRELINE	-6.91	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.84						

CH 16000

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.956	520.309	520.324	520.339	520.375	520.48	520.375	520.339	520.324	520.309	519.975						
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.42	0.52	0.41	0.37	0.35	0.34	0						
EXISTING SURFACE LEVEL	519.96	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97						
OFFSET FROM CENTRELINE	-6.91	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.84						

CH 15990

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.955	520.309	520.324	520.339	520.375	520.48	520.375	520.339	520.324	520.309	519.975						
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.42	0.52	0.41	0.37	0.35	0.34	0						
EXISTING SURFACE LEVEL	519.96	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97						
OFFSET FROM CENTRELINE	-6.91	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.84						

CH 15980

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.962	520.311	520.326	520.341	520.377	520.482	520.377	520.341	520.326	520.311	519.976						
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.42	0.52	0.41	0.37	0.35	0.34	0						
EXISTING SURFACE LEVEL	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97	519.98						
OFFSET FROM CENTRELINE	-6.9	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.84						

CH 16090

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.961	520.311	520.326	520.341	520.377	520.482	520.377	520.341	520.326	520.311	519.975						
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.42	0.52	0.41	0.37	0.35	0.34	0						
EXISTING SURFACE LEVEL	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97	519.98						
OFFSET FROM CENTRELINE	-6.9	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.84						

CH 16080

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.96	520.311	520.326	520.341	520.377	520.482	520.377	520.341	520.326	520.311	519.975						
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.42	0.52	0.41	0.37	0.35	0.34	0						
EXISTING SURFACE LEVEL	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97	519.98						
OFFSET FROM CENTRELINE	-6.9	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.84						

CH 16070

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.96	520.311	520.326	520.341	520.377	520.482	520.377	520.341	520.326	520.311	519.975						
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.42	0.52	0.41	0.37	0.35	0.34	0						
EXISTING SURFACE LEVEL	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97	519.98						
OFFSET FROM CENTRELINE	-6.9	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.84						

CH 16060

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.959	520.311	520.326	520.341	520.377	520.482	520.377	520.341	520.326	520.311	519.975						
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.42	0.52	0.41	0.37	0.35	0.34	0						
EXISTING SURFACE LEVEL	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97	519.98						
OFFSET FROM CENTRELINE	-6.91	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.84						

CH 16050

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.959	520.31	520.325	520.34	520.376	520.481	520.376	520.34	520.325	520.31	519.975						
DEPTH CUT - / FILL +	0	0.35	0.37	0.38	0.42	0.52	0.41	0.37	0.35	0.34	0						
EXISTING SURFACE LEVEL	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97	519.98						
OFFSET FROM CENTRELINE	-6.91	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.84						

CH 16040

CROSS SECTIONS

ROAD04

12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:5AM

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.965	520.313	520.328	520.343	520.379	520.484	520.379	520.343	520.328	520.313	519.976			
DEPTH CUT - / FILL +	0	0.35	0.36	0.38	0.41	0.52	0.41	0.37	0.35	0.34	0			
EXISTING SURFACE LEVEL	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.98			
OFFSET FROM CENTRELINE	-6.89	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.85			

CH 16150

DATUM R.L. 518.00

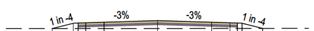
DESIGN SURFACE LEVEL	519.964	520.313	520.328	520.343	520.379	520.484	520.379	520.343	520.328	520.313	519.976			
DEPTH CUT - / FILL +	0	0.35	0.36	0.38	0.41	0.52	0.41	0.37	0.35	0.34	0			
EXISTING SURFACE LEVEL	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97	519.97	519.98			
OFFSET FROM CENTRELINE	-6.89	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.85			

CH 16140

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.964	520.312	520.327	520.342	520.378	520.483	520.378	520.342	520.327	520.312	519.976			
DEPTH CUT - / FILL +	0	0.35	0.36	0.38	0.41	0.52	0.41	0.37	0.35	0.34	0			
EXISTING SURFACE LEVEL	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97	519.98			
OFFSET FROM CENTRELINE	-6.89	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.85			

CH 16130



DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.963	520.312	520.327	520.342	520.378	520.483	520.378	520.342	520.327	520.312	519.976			
DEPTH CUT - / FILL +	0	0.35	0.36	0.38	0.41	0.52	0.41	0.37	0.35	0.34	0			
EXISTING SURFACE LEVEL	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97	519.98			
OFFSET FROM CENTRELINE	-6.9	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.85			

CH 16120

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.963	520.312	520.327	520.342	520.378	520.483	520.378	520.342	520.327	520.312	519.976			
DEPTH CUT - / FILL +	0	0.35	0.36	0.38	0.41	0.52	0.41	0.37	0.35	0.34	0			
EXISTING SURFACE LEVEL	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97	519.98			
OFFSET FROM CENTRELINE	-6.9	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.84			

CH 16110

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.962	520.312	520.327	520.342	520.378	520.483	520.378	520.342	520.327	520.312	519.976			
DEPTH CUT - / FILL +	0	0.35	0.36	0.38	0.41	0.52	0.41	0.37	0.35	0.34	0			
EXISTING SURFACE LEVEL	519.96	519.96	519.96	519.96	519.96	519.97	519.97	519.97	519.97	519.97	519.98			
OFFSET FROM CENTRELINE	-6.9	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.84			

CH 16100

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.969	520.314	520.329	520.344	520.38	520.485	520.38	520.344	520.329	520.314	519.976			
DEPTH CUT - / FILL +	0	0.35	0.36	0.38	0.41	0.52	0.41	0.37	0.36	0.34	0			
EXISTING SURFACE LEVEL	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.98			
OFFSET FROM CENTRELINE	-6.88	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.85			

CH 16210

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.968	520.314	520.329	520.344	520.38	520.485	520.38	520.344	520.329	520.314	519.976			
DEPTH CUT - / FILL +	0	0.35	0.36	0.38	0.41	0.52	0.41	0.37	0.36	0.34	0			
EXISTING SURFACE LEVEL	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.98			
OFFSET FROM CENTRELINE	-6.88	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.85			

CH 16200

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.967	520.314	520.329	520.344	520.38	520.485	520.38	520.344	520.329	520.314	519.976			
DEPTH CUT - / FILL +	0	0.35	0.36	0.38	0.41	0.52	0.41	0.37	0.35	0.34	0			
EXISTING SURFACE LEVEL	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.98			
OFFSET FROM CENTRELINE	-6.89	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.85			

CH 16190

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.967	520.314	520.329	520.344	520.38	520.485	520.38	520.344	520.329	520.314	519.976			
DEPTH CUT - / FILL +	0	0.35	0.36	0.38	0.41	0.52	0.41	0.37	0.35	0.34	0			
EXISTING SURFACE LEVEL	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.98			
OFFSET FROM CENTRELINE	-6.89	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.85			

CH 16180

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.966	520.313	520.328	520.343	520.379	520.484	520.379	520.343	520.328	520.313	519.976			
DEPTH CUT - / FILL +	0	0.35	0.36	0.38	0.41	0.52	0.41	0.37	0.35	0.34	0			
EXISTING SURFACE LEVEL	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.98			
OFFSET FROM CENTRELINE	-6.89	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.85			

CH 16170

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.966	520.313	520.328	520.343	520.379	520.484	520.379	520.343	520.328	520.313	519.976			
DEPTH CUT - / FILL +	0	0.35	0.36	0.38	0.41	0.52	0.41	0.37	0.35	0.34	0			
EXISTING SURFACE LEVEL	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.98			
OFFSET FROM CENTRELINE	-6.89	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.85			

CH 16160

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.972	520.316	520.331	520.346	520.382	520.487	520.382	520.346	520.331	520.316	519.977			
DEPTH CUT - / FILL +	0	0.34	0.36	0.37	0.41	0.51	0.41	0.37	0.36	0.34	0			
EXISTING SURFACE LEVEL	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.98			
OFFSET FROM CENTRELINE	-6.87	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.86			

CH 16270

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.971	520.315	520.33	520.345	520.381	520.486	520.381	520.345	520.33	520.315	519.977			
DEPTH CUT - / FILL +	0	0.34	0.36	0.37	0.41	0.51	0.41	0.37	0.36	0.34	0			
EXISTING SURFACE LEVEL	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.98			
OFFSET FROM CENTRELINE	-6.88	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.85			

CH 16260

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.971	520.315	520.33	520.345	520.381	520.486	520.381	520.345	520.33	520.315	519.977			
DEPTH CUT - / FILL +	0	0.34	0.36	0.37	0.41	0.51	0.41	0.37	0.36	0.34	0			
EXISTING SURFACE LEVEL	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.98			
OFFSET FROM CENTRELINE	-6.88	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.85			

CH 16250

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.97	520.315	520.33	520.345	520.381	520.486	520.381	520.345	520.33	520.315	519.977			
DEPTH CUT - / FILL +	0	0.34	0.36	0.37	0.41	0.51	0.41	0.37	0.36	0.34	0			
EXISTING SURFACE LEVEL	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.98			
OFFSET FROM CENTRELINE	-6.88	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.85			

CH 16240

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.97	520.315	520.33	520.345	520.381	520.486	520.381	520.345	520.33	520.315	519.976			
DEPTH CUT - / FILL +	0	0.34	0.36	0.37	0.41	0.51	0.41	0.37	0.36	0.34	0			
EXISTING SURFACE LEVEL	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.98			
OFFSET FROM CENTRELINE	-6.88	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.85			

CH 16230

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.969	520.314	520.329	520.344	520.38	520.485	520.38	520.344	520.329	520.314	519.976			
DEPTH CUT - / FILL +	0	0.35	0.36	0.37	0.41	0.51	0.41	0.37	0.36	0.34	0			
EXISTING SURFACE LEVEL	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.97	519.98			
OFFSET FROM CENTRELINE	-6.88	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.85			

CH 16220

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.974	520.316	520.331	520.346	520.382	520.487	520.382	520.346	520.331	520.316	519.977			
DEPTH CUT - / FILL +	0	0.34	0.36	0.37	0.41	0.51	0.41	0.37	0.36	0.34	0			
EXISTING SURFACE LEVEL	519.97	519.97	519.97	519.97	519.97	519.98	519.98	519.98	519.98	519.98	519.98			
OFFSET FROM CENTRELINE	-6.87	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.86			

CH 16330

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.975	520.317	520.332	520.347	520.383	520.488	520.383	520.347	520.332	520.317	519.978			
DEPTH CUT - / FILL +	0	0.34	0.36	0.37	0.41	0.51	0.41	0.37	0.36	0.34	0			
EXISTING SURFACE LEVEL	519.97	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98			
OFFSET FROM CENTRELINE	-6.87	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.86			

CH 16320

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.974	520.317	520.332	520.347	520.383	520.488	520.383	520.347	520.332	520.317	519.977			
DEPTH CUT - / FILL +	0	0.34	0.36	0.37	0.41	0.51	0.41	0.37	0.36	0.34	0			
EXISTING SURFACE LEVEL	519.97	519.97	519.97	519.97	519.97	519.98	519.98	519.98	519.98	519.98	519.98			
OFFSET FROM CENTRELINE	-6.87	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.86			

CH 16310

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.974	520.316	520.331	520.346	520.382	520.487	520.382	520.346	520.331	520.316	519.977			
DEPTH CUT - / FILL +	0	0.34	0.36	0.37	0.41	0.51	0.41	0.37	0.36	0.34	0			
EXISTING SURFACE LEVEL	519.97	519.97	519.97	519.97	519.97	519.98	519.98	519.98	519.98	519.98	519.98			
OFFSET FROM CENTRELINE	-6.87	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.86			

CH 16300

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.973	520.316	520.331	520.346	520.382	520.487	520.382	520.346	520.331	520.316	519.977			
DEPTH CUT - / FILL +	0	0.34	0.36	0.37	0.41	0.51	0.41	0.37	0.36	0.34	0			
EXISTING SURFACE LEVEL	519.97	519.97	519.97	519.97	519.97	519.97	519.98	519.98	519.98	519.98	519.98			
OFFSET FROM CENTRELINE	-6.87	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.86			

CH 16290

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.973	520.316	520.331	520.346	520.382	520.487	520.382	520.346	520.331	520.316	519.977			
DEPTH CUT - / FILL +	0	0.34	0.36	0.37	0.41	0.51	0.41	0.37	0.36	0.34	0			
EXISTING SURFACE LEVEL	519.97	519.97	519.97	519.97	519.97	519.97	519.98	519.98	519.98	519.98	519.98			
OFFSET FROM CENTRELINE	-6.87	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.86			

CH 16280

CROSS SECTIONS

ROAD04

12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:5AM

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.979	520.318	520.333	520.348	520.384	520.489	520.384	520.348	520.333	520.318	519.979		
DEPTH CUT - / FILL +	0	0.34	0.35	0.37	0.4	0.51	0.4	0.37	0.35	0.34	0		
EXISTING SURFACE LEVEL	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98		
OFFSET FROM CENTRELINE	-6.86	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.85		

CH 16390

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.978	520.318	520.333	520.348	520.384	520.489	520.384	520.348	520.333	520.318	519.991		
DEPTH CUT - / FILL +	0	0.34	0.35	0.37	0.41	0.51	0.4	0.37	0.35	0.34	0		
EXISTING SURFACE LEVEL	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98		
OFFSET FROM CENTRELINE	-6.86	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.85		

CH 16380

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.978	520.318	520.333	520.348	520.384	520.489	520.384	520.348	520.333	520.318	519.98		
DEPTH CUT - / FILL +	0	0.34	0.35	0.37	0.41	0.51	0.4	0.37	0.35	0.34	0		
EXISTING SURFACE LEVEL	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98		
OFFSET FROM CENTRELINE	-6.86	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.85		

CH 16370

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.977	520.318	520.333	520.348	520.384	520.489	520.384	520.348	520.333	520.318	519.98		
DEPTH CUT - / FILL +	0	0.34	0.35	0.37	0.41	0.51	0.4	0.37	0.35	0.34	0		
EXISTING SURFACE LEVEL	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98		
OFFSET FROM CENTRELINE	-6.86	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.85		

CH 16360

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.977	520.317	520.332	520.347	520.383	520.488	520.383	520.347	520.332	520.317	519.979		
DEPTH CUT - / FILL +	0	0.34	0.35	0.37	0.41	0.51	0.4	0.37	0.35	0.34	0		
EXISTING SURFACE LEVEL	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98		
OFFSET FROM CENTRELINE	-6.86	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.85		

CH 16350

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.976	520.317	520.332	520.347	520.383	520.488	520.383	520.347	520.332	520.317	519.979		
DEPTH CUT - / FILL +	0	0.34	0.35	0.37	0.41	0.51	0.41	0.37	0.35	0.34	0		
EXISTING SURFACE LEVEL	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98		
OFFSET FROM CENTRELINE	-6.86	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.85		

CH 16340

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.982	520.32	520.335	520.35	520.386	520.491	520.386	520.35	520.335	520.32	519.985		
DEPTH CUT - / FILL +	0	0.34	0.35	0.37	0.4	0.51	0.4	0.37	0.35	0.32	0		
EXISTING SURFACE LEVEL	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.99		
OFFSET FROM CENTRELINE	-6.85	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.84		

CH 16450

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.982	520.32	520.335	520.35	520.386	520.491	520.386	520.35	520.335	520.32	519.985		
DEPTH CUT - / FILL +	0	0.34	0.35	0.37	0.4	0.51	0.4	0.37	0.35	0.34	0		
EXISTING SURFACE LEVEL	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98		
OFFSET FROM CENTRELINE	-6.85	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.84		

CH 16440

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.981	520.319	520.334	520.349	520.385	520.49	520.385	520.349	520.334	520.319	519.984		
DEPTH CUT - / FILL +	0	0.34	0.35	0.37	0.4	0.51	0.4	0.37	0.35	0.34	0		
EXISTING SURFACE LEVEL	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98		
OFFSET FROM CENTRELINE	-6.85	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.84		

CH 16430

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.981	520.319	520.334	520.349	520.385	520.49	520.385	520.349	520.334	520.319	519.983		
DEPTH CUT - / FILL +	0	0.34	0.35	0.37	0.4	0.51	0.4	0.37	0.35	0.34	0		
EXISTING SURFACE LEVEL	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98		
OFFSET FROM CENTRELINE	-6.85	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.84		

CH 16420

DATUM R.L. 518.00

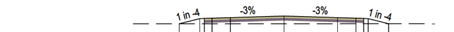
DESIGN SURFACE LEVEL	519.98	520.319	520.334	520.349	520.385	520.49	520.385	520.349	520.334	520.319	519.983		
DEPTH CUT - / FILL +	0	0.34	0.35	0.37	0.4	0.51	0.4	0.37	0.35	0.34	0		
EXISTING SURFACE LEVEL	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98		
OFFSET FROM CENTRELINE	-6.85	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.84		

CH 16410

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.979	520.319	520.334	520.349	520.385	520.49	520.385	520.349	520.334	520.319	519.982		
DEPTH CUT - / FILL +	0	0.34	0.35	0.37	0.4	0.51	0.4	0.37	0.35	0.34	0		
EXISTING SURFACE LEVEL	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98	519.98		
OFFSET FROM CENTRELINE	-6.86	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.85		

CH 16400



DATUM R.L. 518.00

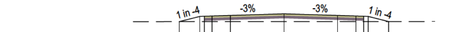
DESIGN SURFACE LEVEL	519.986	520.321	520.336	520.351	520.387	520.492	520.387	520.351	520.336	520.321	519.989		
DEPTH CUT - / FILL +	0	0.33	0.35	0.35	0.4	0.5	0.4	0.36	0.35	0.33	0		
EXISTING SURFACE LEVEL	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99		
OFFSET FROM CENTRELINE	-6.84	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.83		

CH 16510

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.985	520.321	520.336	520.351	520.387	520.492	520.387	520.351	520.336	520.321	519.988		
DEPTH CUT - / FILL +	0	0.34	0.35	0.37	0.4	0.51	0.4	0.36	0.35	0.33	0		
EXISTING SURFACE LEVEL	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99		
OFFSET FROM CENTRELINE	-6.84	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.83		

CH 16500



DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.985	520.321	520.336	520.351	520.387	520.492	520.387	520.351	520.336	520.321	519.987		
DEPTH CUT - / FILL +	0	0.34	0.35	0.37	0.4	0.51	0.4	0.36	0.35	0.33	0		
EXISTING SURFACE LEVEL	519.98	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99		
OFFSET FROM CENTRELINE	-6.84	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.83		

CH 16490

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.984	520.32	520.335	520.35	520.386	520.491	520.386	520.35	520.335	520.32	519.987		
DEPTH CUT - / FILL +	0	0.34	0.35	0.37	0.4	0.51	0.4	0.36	0.35	0.33	0		
EXISTING SURFACE LEVEL	519.98	519.98	519.98	519.98	519.98	519.99	519.99	519.99	519.99	519.99	519.99		
OFFSET FROM CENTRELINE	-6.85	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.83		

CH 16480

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.984	520.32	520.335	520.35	520.386	520.491	520.386	520.35	520.335	520.32	519.986		
DEPTH CUT - / FILL +	0	0.34	0.35	0.37	0.4	0.51	0.4	0.36	0.35	0.33	0		
EXISTING SURFACE LEVEL	519.98	519.98	519.98	519.98	519.98	519.98	519.99	519.99	519.99	519.99	519.99		
OFFSET FROM CENTRELINE	-6.85	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.84		

CH 16470

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.983	520.32	520.335	520.35	520.386	520.491	520.386	520.35	520.335	520.32	519.986		
DEPTH CUT - / FILL +	0	0.34	0.35	0.37	0.4	0.51	0.4	0.36	0.35	0.33	0		
EXISTING SURFACE LEVEL	519.98	519.98	519.98	519.98	519.98	519.98	519.99	519.99	519.99	519.99	519.99		
OFFSET FROM CENTRELINE	-6.85	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.84		

CH 16460

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.989	520.322	520.337	520.352	520.388	520.493	520.388	520.352	520.337	520.322	519.992		
DEPTH CUT - / FILL +	0	0.33	0.35	0.36	0.4	0.5	0.4	0.36	0.35	0.33	0		
EXISTING SURFACE LEVEL	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99		
OFFSET FROM CENTRELINE	-6.83	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.82		

CH 16570

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.989	520.322	520.337	520.352	520.388	520.493	520.388	520.352	520.337	520.322	519.991		
DEPTH CUT - / FILL +	0	0.33	0.35	0.36	0.4	0.5	0.4	0.36	0.35	0.33	0		
EXISTING SURFACE LEVEL	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99		
OFFSET FROM CENTRELINE	-6.83	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.82		

CH 16560

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.988	520.322	520.337	520.352	520.388	520.493	520.388	520.352	520.337	520.322	519.991		
DEPTH CUT - / FILL +	0	0.33	0.35	0.36	0.4	0.5	0.4	0.36	0.35	0.33	0		
EXISTING SURFACE LEVEL	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99		
OFFSET FROM CENTRELINE	-6.84	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.82		

CH 16550

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.988	520.322	520.337	520.352	520.388	520.493	520.388	520.352	520.337	520.322	519.99		
DEPTH CUT - / FILL +	0	0.33	0.35	0.36	0.4	0.5	0.4	0.36	0.35	0.33	0		
EXISTING SURFACE LEVEL	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99		
OFFSET FROM CENTRELINE	-6.84	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.83		

CH 16540

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.987	520.322	520.337	520.352	520.388	520.493	520.388	520.352	520.337	520.322	519.99		
DEPTH CUT - / FILL +	0	0.33	0.35	0.36	0.4	0.5	0.4	0.36	0.35	0.33	0		
EXISTING SURFACE LEVEL	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99		
OFFSET FROM CENTRELINE	-6.84	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.83		

CH 16530

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.986	520.321	520.336	520.351	520.387	520.492	520.387	520.351	520.336	520.321	519.989		
DEPTH CUT - / FILL +	0	0.33	0.35	0.36	0.4	0.5	0.4	0.36	0.35	0.33	0		
EXISTING SURFACE LEVEL	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99		
OFFSET FROM CENTRELINE	-6.84	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.83		

CH 16520

CROSS SECTIONS

ROAD04

12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:5AM

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.993	520.324	520.339	520.354	520.39	520.495	520.469	520.46	520.447	520.442	519.996
DEPTH CUT - / FILL +	0	0.33	0.35	0.36	0.4	0.5	0.47	0.47	0.46	0.45	0
EXISTING SURFACE LEVEL	519.99	519.99	519.99	519.99	519.99	519.99	519.99	520	520	520	520
OFFSET FROM CENTRELINE	-6.82	-5.5	-4.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.28

CH 16630

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.992	520.324	520.339	520.354	520.39	520.495	520.438	520.418	520.41	520.395	519.995
DEPTH CUT - / FILL +	0	0.33	0.35	0.36	0.4	0.5	0.44	0.42	0.42	0.4	0
EXISTING SURFACE LEVEL	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99
OFFSET FROM CENTRELINE	-6.83	-5.5	-4.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.1

CH 16620

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.992	520.323	520.338	520.353	520.389	520.494	520.406	520.376	520.364	520.349	519.994
DEPTH CUT - / FILL +	0	0.33	0.35	0.36	0.4	0.5	0.41	0.38	0.37	0.35	0
EXISTING SURFACE LEVEL	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99
OFFSET FROM CENTRELINE	-6.83	-5.5	-4.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.92

CH 16610

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.991	520.323	520.338	520.353	520.389	520.494	520.389	520.353	520.338	520.323	519.994
DEPTH CUT - / FILL +	0	0.33	0.35	0.36	0.4	0.5	0.4	0.36	0.35	0.33	0
EXISTING SURFACE LEVEL	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99
OFFSET FROM CENTRELINE	-6.83	-5.5	-4.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.82

CH 16600

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.99	520.323	520.338	520.353	520.389	520.494	520.389	520.353	520.338	520.323	519.993
DEPTH CUT - / FILL +	0	0.33	0.35	0.36	0.4	0.5	0.4	0.36	0.35	0.33	0
EXISTING SURFACE LEVEL	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99
OFFSET FROM CENTRELINE	-6.83	-5.5	-4.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.82

CH 16590

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.99	520.323	520.338	520.353	520.389	520.494	520.389	520.353	520.338	520.323	519.993
DEPTH CUT - / FILL +	0	0.33	0.35	0.36	0.4	0.5	0.4	0.36	0.35	0.33	0
EXISTING SURFACE LEVEL	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99	519.99
OFFSET FROM CENTRELINE	-6.83	-5.5	-4.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.82

CH 16580

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.996	520.184	520.199	520.219	520.267	520.356	520.496	520.636	520.684	520.704	519.999
DEPTH CUT - / FILL +	0	0.19	0.2	0.22	0.27	0.36	0.5	0.64	0.69	0.71	0
EXISTING SURFACE LEVEL	520	520	520	520	520	520	520	520	520	520	520
OFFSET FROM CENTRELINE	-8.49	-7.74	-7.44	-6.94	-5.74	-3.5	0	3.5	4.7	5.2	8.26

CH 16690

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.995	520.22	520.235	520.253	520.298	520.366	520.496	520.626	520.67	520.689	519.999
DEPTH CUT - / FILL +	0	0.22	0.24	0.26	0.3	0.37	0.5	0.63	0.67	0.69	0
EXISTING SURFACE LEVEL	520	520	520	520	520	520	520	520	520	520	520
OFFSET FROM CENTRELINE	-8.24	-7.35	-7.05	-6.55	-5.35	-3.5	0	3.5	4.7	5.2	8.2

CH 16680

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.995	520.281	520.296	520.311	520.347	520.391	520.496	520.594	520.628	520.642	519.998
DEPTH CUT - / FILL +	0	0.29	0.3	0.32	0.35	0.4	0.5	0.6	0.63	0.64	0
EXISTING SURFACE LEVEL	519.99	520	520	520	520	520	520	520	520	520	520
OFFSET FROM CENTRELINE	-8.1	-6.96	-6.66	-6.16	-4.96	-3.5	0	3.5	4.7	5.2	8.02

CH 16670

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.994	520.292	520.307	520.322	520.352	520.391	520.496	520.563	520.586	520.596	519.997
DEPTH CUT - / FILL +	0	0.3	0.31	0.33	0.36	0.4	0.5	0.57	0.59	0.6	0
EXISTING SURFACE LEVEL	519.99	519.99	519.99	519.99	519.99	520	520	520	520	520	520
OFFSET FROM CENTRELINE	-7.76	-6.57	-6.27	-5.77	-4.77	-3.5	0	3.5	4.7	5.2	7.83

CH 16660

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.994	520.304	520.319	520.334	520.37	520.39	520.495	520.532	520.544	520.549	519.997
DEPTH CUT - / FILL +	0	0.31	0.32	0.34	0.38	0.4	0.5	0.54	0.55	0.55	0
EXISTING SURFACE LEVEL	519.99	519.99	519.99	519.99	519.99	519.99	520	520	520	520	520
OFFSET FROM CENTRELINE	-7.42	-6.18	-5.88	-5.38	-4.18	-3.5	0	3.5	4.7	5.2	7.66

CH 16650

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.993	520.315	520.33	520.345	520.381	520.39	520.495	520.5	520.502	520.503	519.996
DEPTH CUT - / FILL +	0	0.32	0.34	0.35	0.39	0.4	0.5	0.51	0.51	0.51	0
EXISTING SURFACE LEVEL	519.99	519.99	519.99	519.99	519.99	519.99	519.99	520	520	520	520
OFFSET FROM CENTRELINE	-7.08	-5.79	-5.49	-4.99	-3.79	-3.5	0	3.5	4.7	5.2	7.47

CH 16640

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.998	520.135	520.15	520.17	520.218	520.358	520.498	520.638			
DEPTH CUT - / FILL +	0	0.14	0.15	0.17	0.22	0.36	0.5	0.64			
EXISTING SURFACE LEVEL	520	520	520	520	520	520	520	520			
OFFSET FROM CENTRELINE	-9.55	-9	-8.7	-8.2	-7	-3.5	0	3.5			

CH 16750

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.998	520.134	520.149	520.169	520.217	520.357	520.497	520.637			
DEPTH CUT - / FILL +	0	0.14	0.15	0.17	0.22	0.36	0.5	0.64			
EXISTING SURFACE LEVEL	520	520	520	520	520	520	520	520			
OFFSET FROM CENTRELINE	-9.55	-9	-8.7	-8.2	-7	-3.5	0	3.5			

CH 16740

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.998	520.134	520.149	520.169	520.217	520.357	520.497	520.637			
DEPTH CUT - / FILL +	0	0.14	0.15	0.17	0.22	0.36	0.5	0.64			
EXISTING SURFACE LEVEL	520	520	520	520	520	520	520	520			
OFFSET FROM CENTRELINE	-9.55	-9	-8.7	-8.2	-7	-3.5	0	3.5			

CH 16730

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.997	520.138	520.153	520.173	520.221	520.357	520.497	520.637	520.685	520.705	520.69	520
DEPTH CUT - / FILL +	0	0.14	0.16	0.18	0.22	0.36	0.5	0.64	0.68	0.7	0.69	0
EXISTING SURFACE LEVEL	520	520	520	520	520	520	520	520	520	520	520	520
OFFSET FROM CENTRELINE	-9.47	-8.9	-8.6	-8.1	-6.9	-3.5	0	3.5	4.7	5.2	5.5	8.26

CH 16720

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.997	520.153	520.168	520.188	520.236	520.357	520.497	520.637	520.685	520.705	520.69	520
DEPTH CUT - / FILL +	0	0.16	0.17	0.19	0.24	0.36	0.5	0.64	0.69	0.71	0.69	0
EXISTING SURFACE LEVEL	520	520	520	520	520	520	520	520	520	520	520	520
OFFSET FROM CENTRELINE	-9.14	-8.51	-8.41	-7.71	-6.51	-3.5	0	3.5	4.7	5.2	5.5	8.26

CH 16710

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.996	520.168	520.183	520.203	520.251	520.356	520.496	520.636	520.684	520.704	520.689	520
DEPTH CUT - / FILL +	0	0.17	0.19	0.21	0.25	0.36	0.5	0.64	0.69	0.71	0.69	0
EXISTING SURFACE LEVEL	520	520	520	520	520	520	520	520	520	520	520	520
OFFSET FROM CENTRELINE	-8.81	-8.12	-7.82	-7.32	-6.13	-3.5	0	3.5	4.7	5.2	5.5	8.26

CH 16700

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.999	520.147	520.162	520.182	520.23	520.358	520.498	520.638			
DEPTH CUT - / FILL +	0	0.15	0.16	0.18	0.23	0.36	0.5	0.64			
EXISTING SURFACE LEVEL	520	520	520	520	520	520	520	520			
OFFSET FROM CENTRELINE	-9.3	-8.71	-8.41	-7.91	-6.71	-3.5	0	3.5			

CH 16780

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	519.999	520.135	520.15	520.17	520.218	520.358	520.498	520.638			
DEPTH CUT - / FILL +	0	0.14	0.15	0.17	0.22	0.36	0.5	0.64			
EXISTING SURFACE LEVEL	520	520	520	520	520	520	520	520			
OFFSET FROM CENTRELINE	-9.54	-9	-8.7	-8.2	-7	-3.5	0	3.5			

CH 16770

DATUM R.L. 518.00

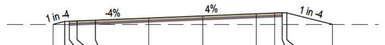
DESIGN SURFACE LEVEL	519.999	520.135	520.15	520.17	520.218	520.358	520.498	520.638			
DEPTH CUT - / FILL +	0	0.14	0.15	0.17	0.22	0.36	0.5	0.64			
EXISTING SURFACE LEVEL	520	520	520	520	520	520	520	520			
OFFSET FROM CENTRELINE	-9.54	-9	-8.7	-8.2	-7	-3.5	0	3.5			

CH 16760

CROSS SECTIONS

ROAD04

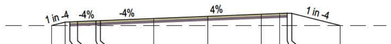
12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:5AM



DATUM R.L. 518.00

DESIGN SURFACE LEVEL	520	520.186	520.201	520.221	520.271	520.269	520.409	520.549	520.689	520.737	520.737	520.742	520
DEPTH CUT - / FILL +	0	0.19	0.2	0.22	0.27	0.27	0.41	0.55	0.69	0.74	0.74	0.74	0
EXISTING SURFACE LEVEL	520	520	520	520	520	520	520	520	520	520	520	520	520
OFFSET FROM CENTRELINE	-6.24	-5.5	-5.2	-4.7	-3.5	-3.5	0	3.5	7	8.2	8.7	9	11.97

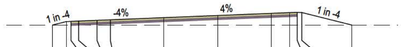
CH 16840



DATUM R.L. 518.00

DESIGN SURFACE LEVEL	520	520.219	520.234	520.254	520.302	520.314	520.454	520.594	520.734	520.782	520.782	520.797	520
DEPTH CUT - / FILL +	0	0.22	0.23	0.25	0.3	0.31	0.45	0.59	0.73	0.78	0.8	0.79	0
EXISTING SURFACE LEVEL	520	520	520	520	520	520	520	520	520	520	520	520	520
OFFSET FROM CENTRELINE	-6.67	-5.79	-5.49	-4.99	-3.79	-3.5	0	3.5	7	8.2	8.7	9	12.15

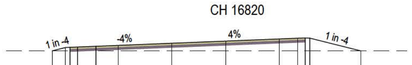
CH 16830



DATUM R.L. 518.00

DESIGN SURFACE LEVEL	520	520.226	520.241	520.261	520.309	520.344	520.484	520.624	520.764	520.812	520.812	520.817	520
DEPTH CUT - / FILL +	0	0.23	0.24	0.26	0.31	0.34	0.48	0.62	0.76	0.81	0.83	0.82	0
EXISTING SURFACE LEVEL	520	520	520	520	520	520	520	520	520	520	520	520	520
OFFSET FROM CENTRELINE	-7.28	-6.37	-5.97	-5.48	-4.38	-3.5	0	3.5	7	8.2	8.7	9	12.27

CH 16820



DATUM R.L. 518.00

DESIGN SURFACE LEVEL	520	520.216	520.231	520.251	520.299	520.358	520.498	520.638	520.778	520.826	520.846	520.851	520
DEPTH CUT - / FILL +	0	0.22	0.23	0.25	0.3	0.36	0.5	0.64	0.78	0.83	0.85	0.83	0
EXISTING SURFACE LEVEL	520	520	520	520	520	520	520	520	520	520	520	520	520
OFFSET FROM CENTRELINE	-7.82	-6.96	-6.66	-6.16	-4.96	-3.5	0	3.5	7	8.2	8.7	9	12.32

CH 16810

DATUM R.L. 518.00

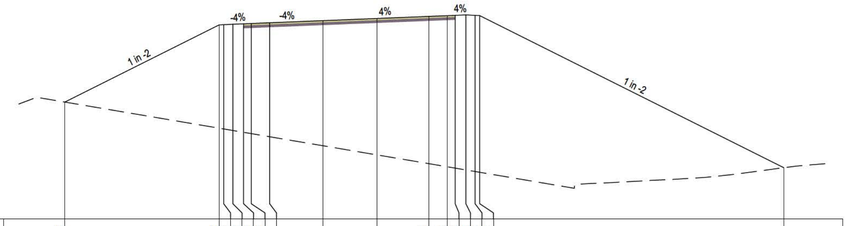
DESIGN SURFACE LEVEL	520	520.194	520.209	520.229	520.277	520.359	520.499	520.639	520.779	520.827	520.847	520.852	520
DEPTH CUT - / FILL +	0	0.19	0.21	0.23	0.28	0.36	0.5	0.64	0.78	0.83	0.85	0.83	0
EXISTING SURFACE LEVEL	520	520	520	520	520	520	520	520	520	520	520	520	520
OFFSET FROM CENTRELINE	-8.32	-7.54	-7.24	-5.74	-5.54	-3.5	0	3.5	7	8.2	8.7	9	12.33

CH 16800

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	520	520.171	520.186	520.206	520.254	520.359	520.499	520.639	520.779	520.827	520.847	520.852	520
DEPTH CUT - / FILL +	0	0.17	0.19	0.21	0.25	0.36	0.5	0.64	0.78	0.83	0.85	0.83	0
EXISTING SURFACE LEVEL	520	520	520	520	520	520	520	520	520	520	520	520	520
OFFSET FROM CENTRELINE	-8.81	-8.13	-7.83	-7.33	-5.13	-3.5	0	3.5	7	8.2	8.7	9	12.33

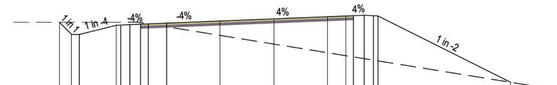
CH 16790



DATUM R.L. 507.00

DESIGN SURFACE LEVEL	514.634	519.689	519.684	519.714	519.742	519.762	519.81	519.95	520.09	520.226	520.274	520.284	520.292	520.277	510.35
DEPTH CUT - / FILL +	0	6.74	6.8	6.94	7.08	7.19	7.44	8.17	8.9	9.62	9.87	9.97	10.17	10.19	10.23	0
EXISTING SURFACE LEVEL	514.63	512.93	512.88	512.78	512.66	512.58	512.37	511.78	511.19	510.61	510.41	510.32	510.12	510.1	510.05	510.35
OFFSET FROM CENTRELINE	-16.87	-6.8	-6.5	-5.9	-5.2	-4.7	-3.5	0	3.5	6.92	8.12	8.62	9.12	9.92	10.22	30.07

CH 16890



DATUM R.L. 514.00

DESIGN SURFACE LEVEL	520	519.192	519.192	519.792	519.807	519.837	519.865	519.893	520.073	520.213	520.353	520.401	520.421	520.419	520.404	516.074
DEPTH CUT - / FILL +	0	-0.81	-0.81	-0.21	-0.19	-0.16	-0.11	-0.01	0.24	0.94	1.65	2.35	2.59	2.69	2.63	2.59	0
EXISTING SURFACE LEVEL	520	520	520	520	520	520	519.97	519.89	519.7	519.13	518.57	518	517.81	517.73	517.62	517.52	516.07
OFFSET FROM CENTRELINE	-10.51	-9.7	-9.2	-6.8	-6.5	-5.9	-5.2	-4.7	-3.5	0	3.5	7	8.2	8.7	9.4	10	10.3	18.96

CH 16880

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	520	519.299	519.299	519.899	519.914	519.944	519.972	519.992	520.04	520.18	520.32	520.46	520.508	520.528	520.526	520.515	520.511	520
DEPTH CUT - / FILL +	0	-0.7	-0.7	-0.1	-0.09	-0.08	-0.03	-0.01	0.04	0.18	0.32	0.46	0.51	0.53	0.52	0.51	0.51	0
EXISTING SURFACE LEVEL	520	520	520	520	520	520	520	520	520	520	520	520	520	520	520	520	520	520
OFFSET FROM CENTRELINE	-10.4	-9.7	-9.2	-6.8	-6.5	-5.9	-5.2	-4.7	-3.5	0	3.5	7	8.2	8.7	9.4	10	10.3	11.32

CH 16870

DATUM R.L. 518.00

DESIGN SURFACE LEVEL	520	519.391	519.391	519.991	520.006	520.036	520.064	520.084	520.132	520.272	520.412	520.552	520.6	520.62	520.648	520.649	520.603	520
DEPTH CUT - / FILL +	0	-0.61	-0.61	-0.01	0.01	0.04	0.06	0.08	0.13	0.27	0.41	0.55	0.6	0.62	0.65	0.65	0.6	0
EXISTING SURFACE LEVEL	520	520	520	520	520	520	520	520	520	520	520	520	520	520	520	520	520	520
OFFSET FROM CENTRELINE	-10.31	-9.7	-9.2	-6.8	-6.5	-5.9	-5.2	-4.7	-3.5	0	3.5	7	8.2	8.7	9.4	10	10.3	12.71

CH 16860

DATUM R.L. 518.00

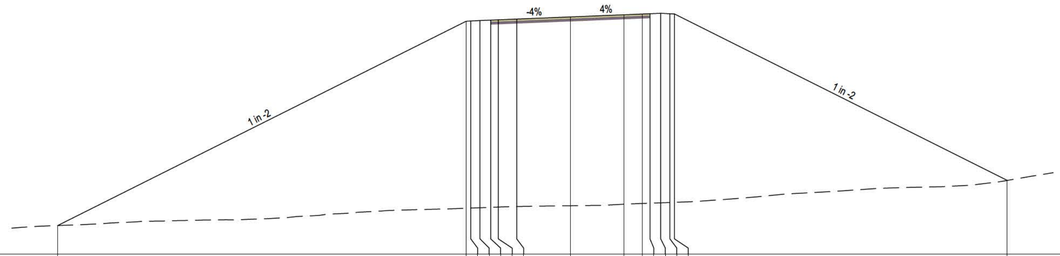
DESIGN SURFACE LEVEL	520	520.067	520.092	520.112	520.115	520.14	520.16	520.208	520.348	520.488	520.628	520.676	520.696	520.724	520.724	520.684	520.679	520
DEPTH CUT - / FILL +	0	0.07	0.08	0.11	0.11	0.14	0.16	0.21	0.35	0.49	0.63	0.68	0.7	0.72	0.72	0.69	0.68	0
EXISTING SURFACE LEVEL	520	520	520	520	520	520	520	520	520	520	520	520	520	520	520	520	520	520
OFFSET FROM CENTRELINE	-7.07	-6.8	-6.5	-5.9	-5.2	-4.7	-4.7	-3.5	0	3.5	7	8.2	8.7	9.4	9.9	10	10.3	13.02

CH 16850

CROSS SECTIONS

ROAD04

12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:5AM



DATUM R.L. 504.00

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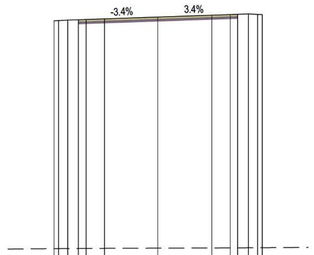
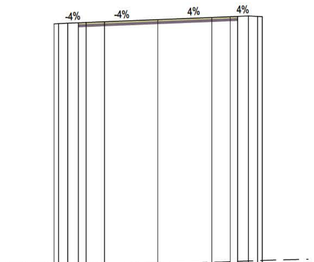


DATUM R.L. 502.00

DESIGN SURFACE LEVEL		518.639	518.654	518.684	518.708	518.726	518.786	518.886	519.005	519.046	519.063	519.087	519.057	519.042
DEPTH CUT - / FILL +		14.87	14.88	14.91	14.93	14.94	14.98	15.09	15.19	15.23	15.24	15.26	15.23	15.21
EXISTING SURFACE LEVEL		503.77	503.77	503.78	503.78	503.78	503.79	503.8	503.81	503.82	503.82	503.83	503.83	503.83
OFFSET FROM CENTRELINE		-8.8	-5.5	-5.9	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.9	6.5	6.8

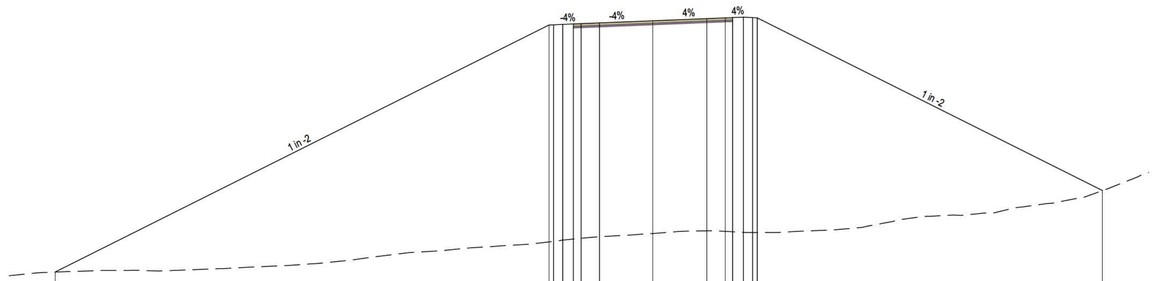
CH 16950



DATUM R.L. 501.00

DESIGN SURFACE LEVEL		518.821	518.836	518.866	518.894	518.914	518.962	519.102	519.242	519.29	519.31	519.308	519.308	519.293
DEPTH CUT - / FILL +		15.75	15.77	15.8	15.82	15.84	15.89	15.96	15.98	15.99	15.99	15.99	15.94	15.92
EXISTING SURFACE LEVEL		503.07	503.07	503.07	503.07	503.07	503.07	503.14	503.26	503.3	503.32	503.35	503.36	503.38
OFFSET FROM CENTRELINE		-6.8	-5.5	-5.9	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.9	6.5	6.8

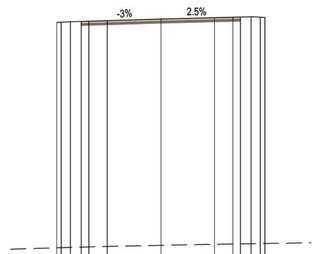
CH 16940



DATUM R.L. 501.00

DESIGN SURFACE LEVEL	502.901	519.022	519.037	519.067	519.095	519.115	519.163	519.303	519.443	519.491	519.511	519.539	519.514	519.494	508.218
DEPTH CUT - / FILL +	0	14.15	14.13	14.08	14.04	14.01	13.96	13.88	13.85	13.93	13.98	14.05	14.03	14.01	0
EXISTING SURFACE LEVEL	502.9	504.87	504.9	504.99	505.05	505.1	505.2	505.42	505.59	505.56	505.53	505.49	505.48	505.48	508.22
OFFSET FROM CENTRELINE	-39.04	-6.8	-5.5	-5.9	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.9	6.5	6.8	29.35

CH 16930



DATUM R.L. 502.00

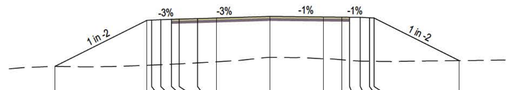
DESIGN SURFACE LEVEL		518.432	518.447	518.477	518.498	518.513	518.549	518.654	518.742	518.773	518.786	518.803	518.773	518.758
DEPTH CUT - / FILL +		14.71	14.72	14.73	14.73	14.73	14.74	14.77	14.79	14.8	14.81	14.81	14.77	14.75
EXISTING SURFACE LEVEL		503.72	503.73	503.75	503.77	503.78	503.81	503.88	503.95	503.97	503.98	503.99	504	504
OFFSET FROM CENTRELINE		-6.8	-5.5	-5.9	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.9	6.5	6.8

CH 16960

CROSS SECTIONS

ROAD04

12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:5AM



DATUM R.L. 512.00

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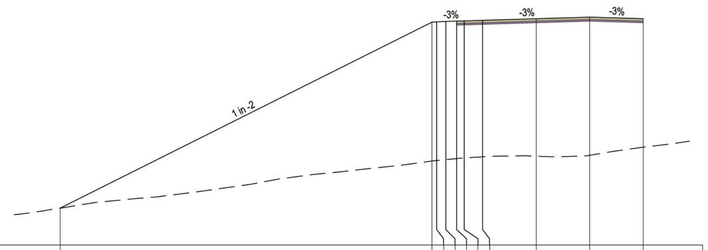
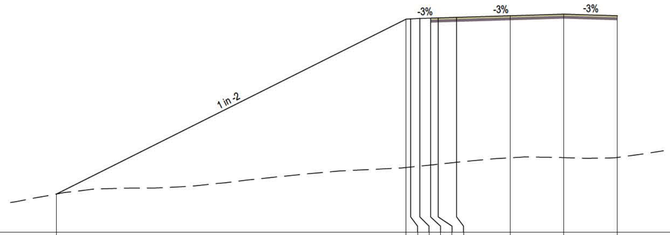


DATUM R.L. 501.00

DESIGN SURFACE LEVEL	503.396	515.541	515.565	515.586	515.597	515.607	515.622	515.658	515.763	515.868	515.763
DEPTH CUT - / FILL +	0	9.07	9.05	9.02	9.02	8.97	8.94	8.91	8.97	9.02	8.39
EXISTING SURFACE LEVEL	503.4	506.48	506.51	506.57	506.57	506.63	506.68	506.75	506.79	506.85	507.38
OFFSET FROM CENTRELINE	-34.59	-10.3	-10	-9.4	-8.7	-8.7	-8.2	-7	-3.5	0	3.5

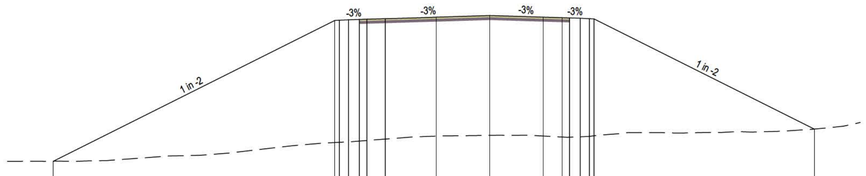
CH 17050



DATUM R.L. 502.00

DESIGN SURFACE LEVEL	504.498	515.913	515.938	515.958	515.969	515.979	515.984	516.03	516.135	516.24	516.135
DEPTH CUT - / FILL +	0	9.69	9.67	9.64	9.59	9.59	9.55	9.46	9.27	9.37	9.25
EXISTING SURFACE LEVEL	504.5	506.23	506.26	506.32	506.37	506.39	506.44	506.57	506.86	506.87	506.89
OFFSET FROM CENTRELINE	-33.13	-10.3	-10	-9.4	-8.7	-8.7	-8.2	-7	-3.5	0	3.5

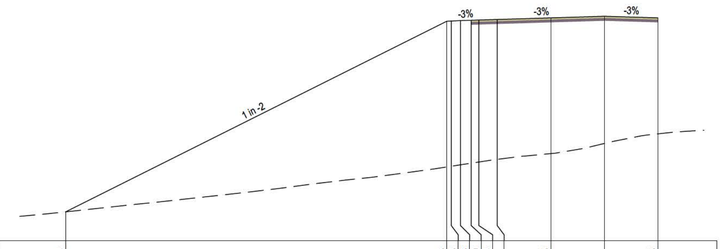
CH 17040



DATUM R.L. 505.00

DESIGN SURFACE LEVEL	507.088	516.274	516.289	516.319	516.334	516.34	516.355	516.391	516.491	516.586	516.491	516.455	516.44	516.419	516.389	516.374	509.183
DEPTH CUT - / FILL +	0	7.97	7.97	7.97	7.94	7.94	7.92	7.86	7.77	7.82	7.76	7.79	7.79	7.74	7.68	7.63	0
EXISTING SURFACE LEVEL	507.09	508.31	508.32	508.35	508.4	508.4	508.44	508.53	508.72	508.78	508.73	508.67	508.65	508.65	508.71	508.75	509.18
OFFSET FROM CENTRELINE	-28.5	-10.12	-9.82	-9.22	-8.52	-8.22	-8.03	-6.83	-3.5	0	3.5	4.7	5.2	5.9	6.5	6.8	21.18

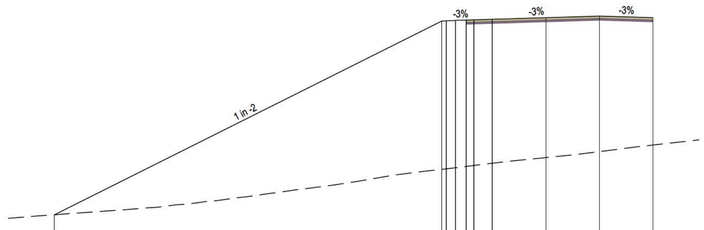
CH 17030



DATUM R.L. 500.00

DESIGN SURFACE LEVEL	501.894	514.333	514.348	514.378	514.399	514.414	514.45	514.555	514.66	514.555
DEPTH CUT - / FILL +	0	9.51	9.48	9.41	9.33	9.27	9.13	8.66	8.3	7.57
EXISTING SURFACE LEVEL	501.89	504.82	504.87	504.96	505.07	505.15	505.32	505.7	506.36	506.99
OFFSET FROM CENTRELINE	-35.18	-10.3	-10	-9.4	-8.7	-8.2	-7	-3.5	0	3.5

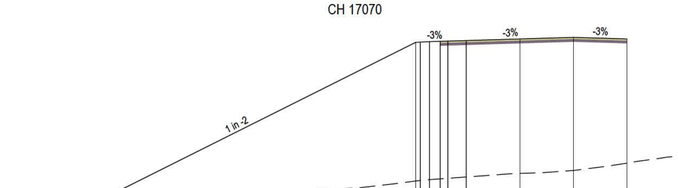
CH 17080



DATUM R.L. 500.00

DESIGN SURFACE LEVEL	502.106	514.751	514.766	514.796	514.817	514.832	514.868	514.973	515.078	514.973
DEPTH CUT - / FILL +	0	9.68	9.66	9.62	9.55	9.5	9.4	9.13	8.85	8.31
EXISTING SURFACE LEVEL	502.11	505.07	505.11	505.18	505.26	505.33	505.47	505.84	506.23	506.66
OFFSET FROM CENTRELINE	-35.59	-10.3	-10	-9.4	-8.7	-8.2	-7	-3.5	0	3.5

CH 17070



DATUM R.L. 501.00

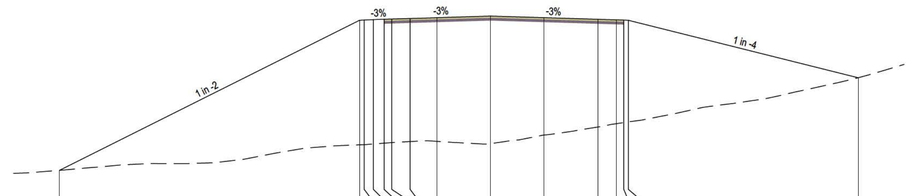
DESIGN SURFACE LEVEL	503.649	515.154	515.169	515.199	515.217	515.232	515.271	515.376	515.481	515.376
DEPTH CUT - / FILL +	0	9.05	9.03	9.01	8.98	8.96	8.91	8.78	8.69	8.11
EXISTING SURFACE LEVEL	503.65	506.1	506.14	506.19	506.24	506.28	506.37	506.6	506.79	507.27
OFFSET FROM CENTRELINE	-33.31	-10.3	-10	-9.4	-8.7	-8.2	-7	-3.5	0	3.5

CH 17060

CROSS SECTIONS

ROAD04

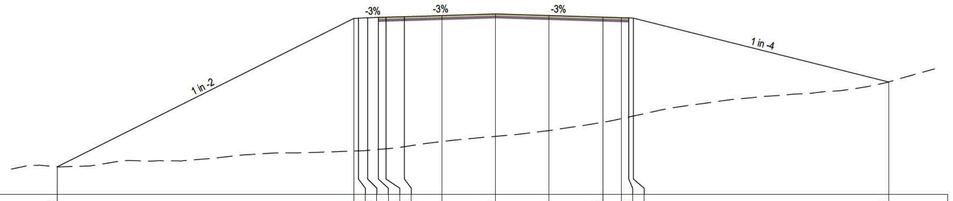
12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:5AM



DATUM R.L. 501.00

DESIGN SURFACE LEVEL	503.24						513.037	513.052	513.062	513.070	513.119	513.154	513.206	513.311	513.206	513.101	513.065	513.035		509.284
DEPTH CUT - / FILL +	0						8.13	8.13	8.12	8.09	8.06	8.03	8.07	8.33	7.66	7.03	6.78	6.69	6.63	0
EXISTING SURFACE LEVEL	503.24						504.91	504.92	504.96	505.01	505.05	505.12	505.13	504.98	505.55	506.07	506.28	506.38	506.4	509.28
OFFSET FROM CENTRELINE	-28.14						-8.55	-8.25	-7.65	-6.85	-5.45	-5.25	-3.5	0	3.5	7	8.2	8.7	9	24

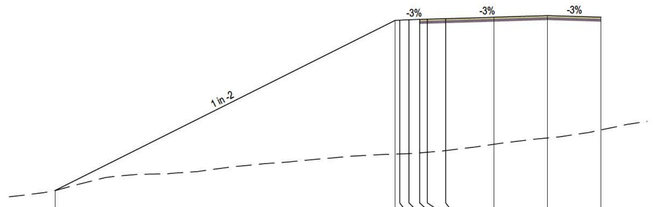
CH 17110



DATUM R.L. 502.00

DESIGN SURFACE LEVEL	503.798						513.481	513.496	513.526	513.547	513.567	513.598	513.671	513.776	513.671	513.566	513.53	513.515	513.5	509.335
DEPTH CUT - / FILL +	0						8.65	8.66	8.66	8.62	8.59	8.49	8.23	7.99	7.51	6.86	6.59	6.47	6.39	0
EXISTING SURFACE LEVEL	503.8						504.83	504.84	504.87	504.93	505.01	505.11	505.44	505.78	506.16	506.7	506.94	507.05	507.11	509.33
OFFSET FROM CENTRELINE	-29.61						-9.25	-8.95	-8.35	-7.65	-6.85	-5.95	-3.5	0	3.5	7	8.2	8.7	9	25.66

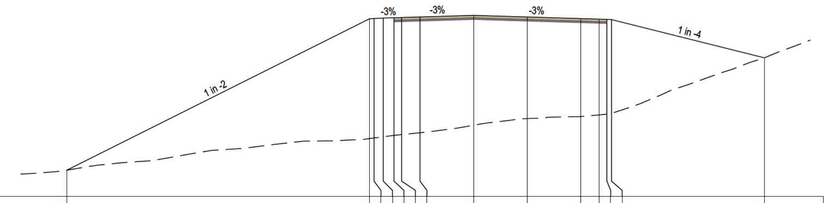
CH 17100



DATUM R.L. 501.00

DESIGN SURFACE LEVEL	502.808						513.909	513.924	513.954	513.975	513.99	514.026	514.121	514.226	514.121			
DEPTH CUT - / FILL +	0						8.73	8.73	8.74	8.71	8.69	8.61	8.3	7.99	7.35			
EXISTING SURFACE LEVEL	502.81						505.18	505.19	505.21	505.26	505.3	505.41	505.82	506.24	506.77			
OFFSET FROM CENTRELINE	-32.15						-9.95	-9.65	-9.05	-8.35	-7.65	-6.65	-3.5	0	3.5			

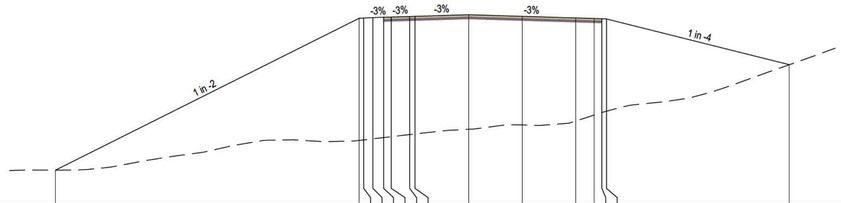
CH 17090



DATUM R.L. 500.00

DESIGN SURFACE LEVEL	501.717						511.601	511.616	511.646	511.667	511.682	511.718	511.823	511.718	511.613	511.577	511.562	511.547		509.052
DEPTH CUT - / FILL +	0						7.82	7.8	7.75	7.69	7.64	7.56	7.17	6.63	6.39	6.25	6.19	6.12		0
EXISTING SURFACE LEVEL	501.72						503.78	503.82	503.9	503.99	504.04	504.16	504.65	505.09	505.22	505.33	505.38	505.43		509.05
OFFSET FROM CENTRELINE	-26.57						-6.8	-6.5	-5.9	-5.2	-4.7	-3.5	0	3.5	7	8.2	8.7	9		18.98

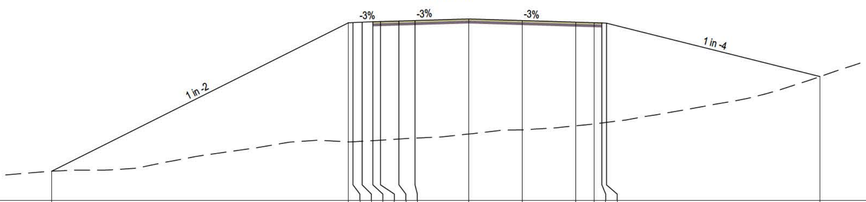
CH 17140



DATUM R.L. 500.00

DESIGN SURFACE LEVEL	502.191						512.102	512.117	512.147	512.168	512.183	512.219	512.229	512.334	512.229	512.124	512.088	512.073	512.058	509.073
DEPTH CUT - / FILL +	0						7.97	7.95	7.91	7.85	7.81	7.7	7.67	7.48	7.09	6.72	6.3	6.12	6.02	0
EXISTING SURFACE LEVEL	502.19						504.13	504.17	504.23	504.32	504.37	504.51	504.56	504.86	505.14	505.4	505.79	505.96	506.04	509.07
OFFSET FROM CENTRELINE	-26.97						-7.15	-6.85	-5.25	-5.55	-5.05	-3.85	-3.5	0	3.5	7	8.2	8.7	9	20.94

CH 17130



DATUM R.L. 501.00

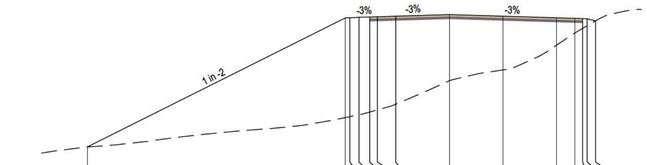
DESIGN SURFACE LEVEL	502.889						512.577	512.592	512.622	512.643	512.658	512.694	512.725	512.83	512.725	512.62	512.584	512.569	512.554	509.089
DEPTH CUT - / FILL +	0						7.78	7.78	7.78	7.78	7.76	7.74	7.68	7.51	7.14	6.77	6.61	6.53	6.48	0
EXISTING SURFACE LEVEL	502.89						504.8	504.81	504.85	504.89	504.91	504.99	505.05	505.32	505.59	505.86	505.98	506.04	506.08	509.07
OFFSET FROM CENTRELINE	-27.23						-7.85	-7.55	-7.05	-5.85	-5.75	-4.55	-3.5	0	3.5	7	8.2	8.7	9	22.95

CH 17120

CROSS SECTIONS

ROAD04

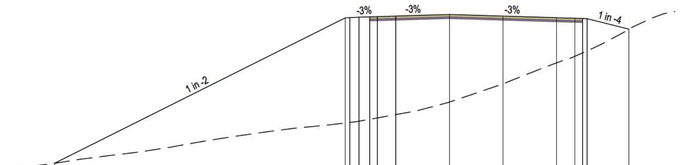
12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:5AM



DATUM R.L. 499.00

DESIGN SURFACE LEVEL	500.983	509.388	509.413	509.443	509.464	509.470	509.515	509.62	509.515	509.41	509.374	509.369	509.344	509.308
DEPTH CUT - / FILL +	0	6.51	6.46	6.37	6.21	6.08	5.75	4.32	3.51	1.79	0.95	0.64	0.45	0
EXISTING SURFACE LEVEL	500.98	502.89	502.95	503.08	503.26	503.4	503.77	505.3	506.01	507.62	508.42	508.7	508.89	509.21
OFFSET FROM CENTRELINE	-23.63	-6.8	-6.5	-5.9	-5.2	-4.7	-3.5	0	3.5	7	8.2	8.7	9	9.54

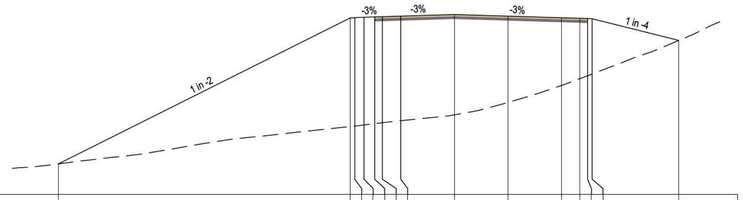
CH 17180



DATUM R.L. 498.00

DESIGN SURFACE LEVEL	500.481	509.972	509.987	510.017	510.038	510.053	510.089	510.194	510.089	509.984	509.948	509.933	509.918	509.235
DEPTH CUT - / FILL +	0	6.86	6.84	6.79	6.69	6.61	6.43	5.72	4.43	2.95	2.48	2.24	2.1	0
EXISTING SURFACE LEVEL	500.48	503.11	503.15	503.23	503.35	503.44	503.66	504.47	505.66	507.03	507.47	507.69	507.82	509.24
OFFSET FROM CENTRELINE	-25.78	-6.8	-6.5	-5.9	-5.2	-4.7	-3.5	0	3.5	7	8.2	8.7	9	11.73

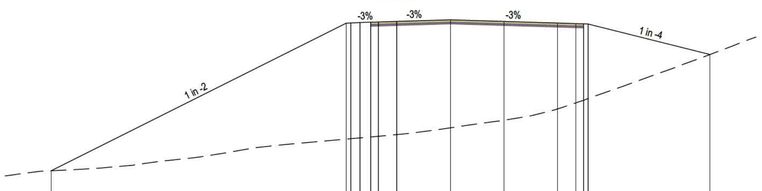
CH 17170



DATUM R.L. 499.00

DESIGN SURFACE LEVEL	500.999	510.53	510.545	510.575	510.596	510.611	510.647	510.752	510.647	510.542	510.506	510.491	510.476	509.063
DEPTH CUT - / FILL +	0	7.09	7.07	7.03	6.97	6.92	6.83	6.55	5.63	4.42	3.94	3.74	3.61	0
EXISTING SURFACE LEVEL	501	503.44	503.47	503.54	503.63	503.69	503.82	504.21	505.01	506.12	506.57	506.75	506.87	509.06
OFFSET FROM CENTRELINE	-25.86	-6.8	-6.5	-5.9	-5.2	-4.7	-3.5	0	3.5	7	8.2	8.7	9	14.65

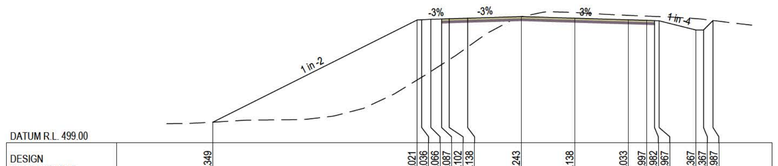
CH 17160



DATUM R.L. 499.00

DESIGN SURFACE LEVEL	501.439	511.073	511.088	511.118	511.139	511.154	511.19	511.295	511.19	511.085	511.049	511.034	511.019	509.031
DEPTH CUT - / FILL +	0	7.56	7.55	7.53	7.49	7.46	7.39	7.05	6.45	5.61	5.17	4.88	4.66	0
EXISTING SURFACE LEVEL	501.44	503.51	503.54	503.59	503.65	503.69	503.8	504.25	504.74	505.48	505.67	505.74	505.16	509.03
OFFSET FROM CENTRELINE	-26.07	-6.8	-6.5	-5.9	-5.2	-4.7	-3.5	0	3.5	7	8.2	8.7	9	16.95

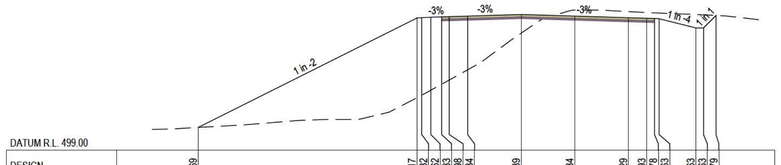
CH 17150



DATUM R.L. 499.00

DESIGN SURFACE LEVEL	500.349	507.021	507.036	507.066	507.087	507.102	507.138	507.243	507.138	507.033	506.997	506.982	506.967	506.367	506.367	506.987
DEPTH CUT - / FILL +	0	3.92	3.75	3.4	2.97	2.67	1.88	0.01	-0.37	-0.29	-0.28	-0.27	-0.27	-0.74	-0.7	0
EXISTING SURFACE LEVEL	500.35	503.1	503.29	503.66	504.11	504.43	505.26	507.23	507.51	507.32	507.27	507.25	507.24	507.11	507.06	506.99
OFFSET FROM CENTRELINE	-20.14	-6.8	-6.5	-5.9	-5.2	-4.7	-3.5	0	3.5	7	8.2	8.7	9	11.4	11.9	12.52

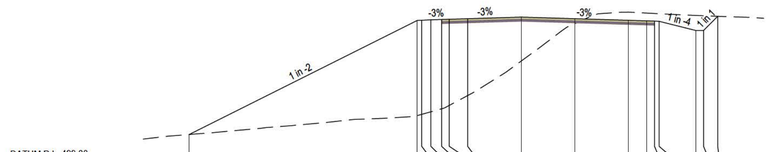
CH 17220



DATUM R.L. 499.00

DESIGN SURFACE LEVEL	500.469	507.617	507.632	507.662	507.683	507.698	507.734	507.839	507.734	507.629	507.593	507.578	507.563	506.963	506.963	507.779
DEPTH CUT - / FILL +	0	5.21	5.06	4.76	4.4	4.14	3.5	1.21	-0.39	-0.4	-0.38	-0.37	-0.37	-0.88	-0.86	0
EXISTING SURFACE LEVEL	500.47	502.41	502.57	502.9	503.29	503.56	504.23	506.62	508.12	508.03	507.97	507.94	507.93	507.84	507.82	507.78
OFFSET FROM CENTRELINE	-21.1	-6.8	-6.5	-5.9	-5.2	-4.7	-3.5	0	3.5	7	8.2	8.7	9	11.4	11.9	12.72

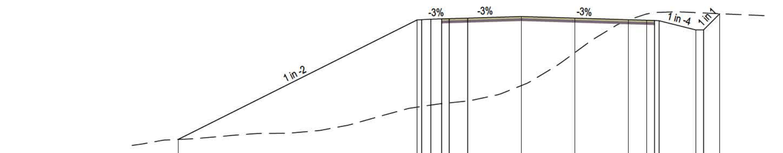
CH 17210



DATUM R.L. 499.00

DESIGN SURFACE LEVEL	500.772	508.213	508.229	508.258	508.279	508.294	508.33	508.435	508.33	508.225	508.189	508.174	508.159	507.559	507.559	508.488
DEPTH CUT - / FILL +	0	6.21	6.14	6.01	5.83	5.62	5.02	2.87	0.32	-0.53	-0.51	-0.49	-0.49	-0.98	-0.96	0
EXISTING SURFACE LEVEL	500.77	502	502.09	502.25	502.45	502.67	503.31	505.57	508.01	508.76	508.89	508.67	508.65	508.54	508.52	508.49
OFFSET FROM CENTRELINE	-21.68	-6.8	-6.5	-5.9	-5.2	-4.7	-3.5	0	3.5	7	8.2	8.7	9	11.4	11.9	12.83

CH 17200



DATUM R.L. 499.00

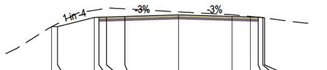
DESIGN SURFACE LEVEL	501.004	508.809	508.824	508.854	508.875	508.89	508.926	509.031	508.926	508.821	508.785	508.77	508.755	508.155	508.155	509.212
DEPTH CUT - / FILL +	0	5.69	5.66	5.61	5.53	5.5	5.41	4.51	2.25	0.01	-0.41	-0.52	-0.55	-1.13	-1.11	0
EXISTING SURFACE LEVEL	501	503.11	503.16	503.25	503.34	503.39	503.52	504.52	506.68	508.81	509.2	509.29	509.3	509.28	509.26	509.21
OFFSET FROM CENTRELINE	-22.41	-6.8	-6.5	-5.9	-5.2	-4.7	-3.5	0	3.5	7	8.2	8.7	9	11.4	11.9	12.96

CH 17190

CROSS SECTIONS

ROAD04

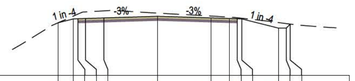
12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:6AM



DATUM R.L. 500.00

DESIGN SURFACE LEVEL		503.492	503.492	504.092	504.107	504.122	504.172	504.158	504.263	504.158	504.122	504.107	504.092	504.064			
DEPTH CUT - / FILL +		0	-0.2	-0.47	-0.5	-0.57	-0.57	-0.5	-0.19	-0.11	-0.04	-0	0.01	0			
EXISTING SURFACE LEVEL		503.49	503.69	504.56	504.61	504.69	504.73	504.65	504.46	504.27	504.16	504.11	504.08	504.06			
OFFSET FROM CENTRELINE		-8.28	-7.9	-5.5	-5.2	-4.7	-4.7	-3.5	0	3.5	4.7	5.2	5.5	5.61			

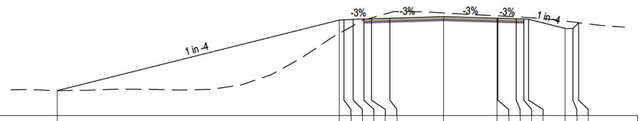
CH 17270



DATUM R.L. 501.00

DESIGN SURFACE LEVEL		504.442	504.688	504.703	504.718	504.754	504.659	504.754	504.718	504.703	504.688	504.088	504.088	504.35			
DEPTH CUT - / FILL +		0	-0.18	-0.3	-0.43	-0.46	-0.21	-0.12	-0.09	-0.06	-0.05	-0.36	-0.3	0			
EXISTING SURFACE LEVEL		504.44	504.87	505	505.15	505.21	505.07	504.88	504.8	504.77	504.73	504.45	504.38	504.35			
OFFSET FROM CENTRELINE		-8.48	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	8.66			

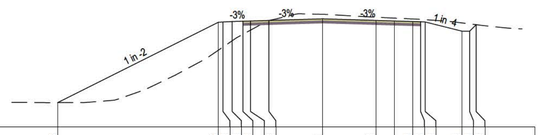
CH 17260



DATUM R.L. 499.00

DESIGN SURFACE LEVEL	500.624		505.233	505.248	505.278	505.299	505.314	505.35	505.455	505.35	505.348	505.312	505.297	505.282	504.682	504.682	505.055
DEPTH CUT - / FILL +	0		0.87	0.72	0.41	0.06	-0.07	-0.37	-0.24	-0.16	-0.16	-0.13	-0.11	-0.11	-0.48	-0.42	0
EXISTING SURFACE LEVEL	500.62		504.37	504.53	504.87	505.24	505.38	505.71	505.7	505.51	505.51	505.45	505.41	505.39	505.16	505.1	505.06
OFFSET FROM CENTRELINE	-25.23		-6.8	-6.5	-5.9	-5.2	-4.7	-3.5	0	3.5	3.95	4.75	5.25	5.55	7.95	8.45	8.82

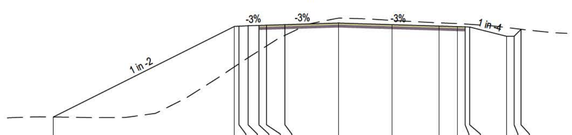
CH 17250



DATUM R.L. 499.00

DESIGN SURFACE LEVEL	500.579		505.829	505.844	505.874	505.895	505.91	505.946	506.051	505.946	505.91	505.874	505.859	505.844	505.244	505.244	505.698
DEPTH CUT - / FILL +	0		1.82	1.64	1.26	0.85	0.6	0.01	-0.29	-0.21	-0.19	-0.17	-0.16	-0.15	-0.04	-0.48	0
EXISTING SURFACE LEVEL	500.58		504	504.21	504.62	505.04	505.31	505.95	506.34	506.16	506.1	506.04	506.02	505.99	505.28	505.72	505.67
OFFSET FROM CENTRELINE	-17.3		-6.8	-6.5	-5.9	-5.2	-4.7	-3.5	0	3.5	4.7	5.9	6.4	6.7	9.1	9.6	10.03

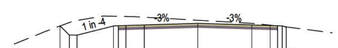
CH 17240



DATUM R.L. 499.00

DESIGN SURFACE LEVEL	500.513		506.425	506.44	506.47	506.491	506.526	506.542	506.647	506.542	506.45	506.414	506.399	506.384	506.784	506.784	506.269
DEPTH CUT - / FILL +	0		2.84	2.45	2.08	1.66	1.36	0.7	-0.32	-0.28	-0.21	-0.19	-0.18	-0.18	-0.57	-0.51	0
EXISTING SURFACE LEVEL	500.51		503.79	503.99	504.39	504.83	505.17	505.84	506.96	506.82	506.66	506.61	506.58	506.56	506.35	506.3	506.24
OFFSET FROM CENTRELINE	-18.62		-6.8	-6.5	-5.9	-5.2	-4.7	-3.5	0	3.5	6.56	7.76	8.26	8.56	10.96	11.46	11.92

CH 17230



DATUM R.L. 501.00

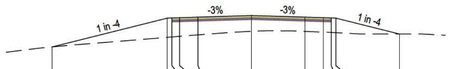
DESIGN SURFACE LEVEL		503.494	503.896	503.896	503.496	503.511	503.526	503.526	503.667	503.562	503.526	503.511	503.496	503.43		
DEPTH CUT - / FILL +		0	-0.82	-0.96	-0.63	-0.61	-0.49	-0.5	-0.2	-0.1	-0.02	0.02	0.04	0		
EXISTING SURFACE LEVEL		503.49	503.72	503.85	504.13	504.12	504.11	504.06	503.86	503.66	503.55	503.49	503.46	503.43		
OFFSET FROM CENTRELINE		-9	-8.4	-7.9	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	5.76		

CH 17280

CROSS SECTIONS

ROAD04

12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:6AM



DATUM R.L. 514.00

| | | |

DATUM R.L. 523.00

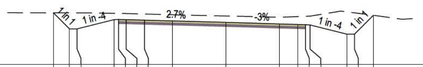
DESIGN SURFACE LEVEL	526.467	525.457	525.457	526.057	526.072	526.049	525.995	525.878	525.719	525.561	525.507	525.484	525.469	524.869	524.869	525.902
DEPTH CUT - / FILL +	0	-1.05	-1.08	-0.4	-0.37	-0.35	-0.32	-0.32	-0.32	-0.32	-0.39	-0.43	-0.45	-1.3	-1.21	0
EXISTING SURFACE LEVEL	526.47	526.51	526.53	526.46	526.44	526.4	526.32	526.2	526.04	525.88	525.9	525.91	525.92	526.17	526.08	525.9
OFFSET FROM CENTRELINE	-12	-10.99	-10.49	-8.09	-7.79	-7.29	-6.09	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	9.43

CH 230

DATUM R.L. 523.00

DESIGN SURFACE LEVEL	526.195	524.893	524.893	525.493	525.506	525.49	525.447	525.368	525.242	525.116	525.073	525.065	525.04	524.44	524.44	525.595
DEPTH CUT - / FILL +	0	-1.26	-1.25	-0.55	-0.52	-0.51	-0.51	-0.49	-0.45	-0.4	-0.45	-0.48	-0.51	-1.4	-1.33	0
EXISTING SURFACE LEVEL	526.2	526.16	526.14	526.04	526.03	526.01	525.96	525.86	525.69	525.51	525.53	525.54	525.55	525.84	525.77	525.59
OFFSET FROM CENTRELINE	-11.9	-10.6	-10.1	-7.7	-7.4	-6.9	-5.7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	9.55

CH 220



DATUM R.L. 522.00

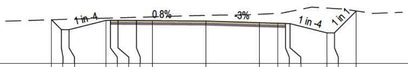
DESIGN SURFACE LEVEL	525.367	524.321	524.321	524.921	524.936	524.923	524.891	524.842	524.748	524.643	524.607	524.592	524.577	523.977	523.977	525.21
DEPTH CUT - / FILL +	0	-1.05	-1.04	-0.41	-0.39	-0.4	-0.4	-0.4	-0.41	-0.44	-0.51	-0.55	-0.58	-1.45	-1.39	0
EXISTING SURFACE LEVEL	525.37	525.37	525.37	525.34	525.33	525.32	525.29	525.24	525.16	525.08	525.12	525.14	525.15	525.43	525.37	525.21
OFFSET FROM CENTRELINE	-11.25	-10.21	-9.71	-7.31	-7.01	-6.51	-5.31	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	9.63

CH 210

DATUM R.L. 522.00

DESIGN SURFACE LEVEL	524.695	523.751	523.751	524.351	524.365	524.365	524.336	524.311	524.25	524.145	524.109	524.094	524.079	523.479	523.479	524.808
DEPTH CUT - / FILL +	0	-0.95	-0.95	-0.35	-0.33	-0.33	-0.36	-0.3	-0.36	-0.46	-0.55	-0.59	-0.66	-1.53	-1.48	0
EXISTING SURFACE LEVEL	524.6	524.61	524.61	524.62	524.62	524.62	524.62	524.61	524.61	524.6	524.66	524.69	524.74	525.01	524.96	524.81
OFFSET FROM CENTRELINE	-10.67	-9.92	-9.92	-6.92	-6.42	-5.12	-4.92	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	9.73

CH 200



DATUM R.L. 521.00

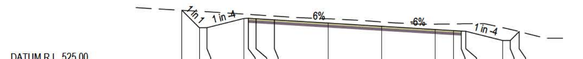
DESIGN SURFACE LEVEL	523.832	523.188	523.188	523.788	523.803	523.799	523.789	523.761	523.751	523.646	523.61	523.595	523.58	522.98	522.98	524.408
DEPTH CUT - / FILL +	0	-0.66	-0.68	-0.15	-0.14	-0.16	-0.21	-0.24	-0.37	-0.55	-0.64	-0.72	-0.8	-1.62	-1.59	0
EXISTING SURFACE LEVEL	523.83	523.85	523.87	523.94	523.94	523.95	523.89	524.02	524.12	524.19	524.25	524.32	524.38	524.6	524.57	524.41
OFFSET FROM CENTRELINE	-10.07	-9.43	-9.93	-5.53	-5.23	-4.73	-4.53	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	9.83

CH 190

DATUM R.L. 526.00

DESIGN SURFACE LEVEL	529.134	527.767	527.767	528.367	528.382	528.392	528.28	528.07	527.86	527.65						
DEPTH CUT - / FILL +	0	-1.27	-1.23	-0.44	-0.4	-0.39	-0.39	-0.32	-0.23	-0.31						
EXISTING SURFACE LEVEL	529.13	529.03	528.99	528.8	528.78	528.74	528.64	528.39	528.09	527.96						
OFFSET FROM CENTRELINE	-13.27	-11.9	-11.4	-9	-8.7	-8.2	-7	-3.5	0	3.5						

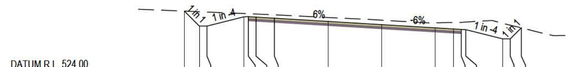
CH 280



DATUM R.L. 525.00

DESIGN SURFACE LEVEL	528.506	527.371	527.371	527.971	527.996	527.996	527.984	527.674	527.464	527.254	527.182	527.152	527.137	526.537	526.537	527.121
DEPTH CUT - / FILL +	0	-1.07	-1.04	-0.29	-0.25	-0.25	-0.25	-0.28	-0.28	-0.35	-0.43	-0.47	-0.49	-0.84	-0.73	0
EXISTING SURFACE LEVEL	528.51	528.44	528.41	528.26	528.24	528.21	528.13	527.95	527.75	527.6	527.62	527.62	527.63	527.38	527.26	527.12
OFFSET FROM CENTRELINE	-13.03	-11.9	-11.4	-9	-8.7	-8.2	-7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	8.98

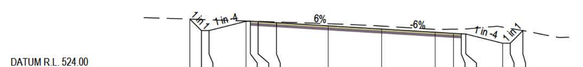
CH 270



DATUM R.L. 524.00

DESIGN SURFACE LEVEL	527.935	526.96	526.96	527.56	527.575	527.585	527.413	527.263	527.053	526.843	526.771	526.741	526.726	526.126	526.126	526.848
DEPTH CUT - / FILL +	0	-0.94	-0.91	-0.22	-0.19	-0.21	-0.22	-0.26	-0.29	-0.33	-0.42	-0.46	-0.49	-1.02	-0.89	0
EXISTING SURFACE LEVEL	527.94	527.9	527.87	527.78	527.77	527.75	527.69	527.52	527.34	527.17	527.2	527.2	527.22	527.14	527.02	526.86
OFFSET FROM CENTRELINE	-12.88	-11.9	-11.4	-9	-8.7	-8.2	-7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	9.12

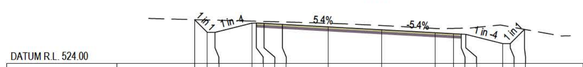
CH 260



DATUM R.L. 524.00

DESIGN SURFACE LEVEL	527.273	526.524	526.524	527.124	527.139	527.109	527.037	526.835	526.625	526.415	526.343	526.313	526.298	525.698	525.698	526.523
DEPTH CUT - / FILL +	0	-0.72	-0.71	-0.02	-0	-0.02	-0.05	-0.14	-0.19	-0.19	-0.27	-0.31	-0.33	-1.05	-0.97	0
EXISTING SURFACE LEVEL	527.27	527.25	527.23	527.15	527.14	527.12	527.09	526.97	526.82	526.6	526.61	526.62	526.63	526.75	526.66	526.52
OFFSET FROM CENTRELINE	-12.51	-11.76	-11.26	-8.86	-8.56	-8.06	-6.86	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	9.22

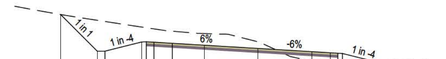
CH 250



DATUM R.L. 524.00

DESIGN SURFACE LEVEL	526.84	526.011	526.011	526.611	526.626	526.598	526.553	526.371	526.18	525.99	525.924	525.897	525.882	525.282	525.282	526.207
DEPTH CUT - / FILL +	0	-0.81	-0.8	-0.14	-0.11	-0.13	-0.16	-0.23	-0.28	-0.28	-0.35	-0.39	-0.41	-1.18	-1.09	0
EXISTING SURFACE LEVEL	526.84	526.82	526.81	526.75	526.74	526.72	526.69	526.61	526.46	526.27	526.27	526.28	526.29	526.47	526.38	526.21
OFFSET FROM CENTRELINE	-12.2	-11.37	-10.87	-8.47	-8.17	-7.67	-6.47	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	9.33

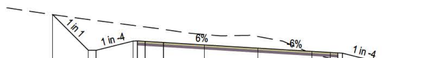
CH 240



DATUM R.L. 527.00

DESIGN SURFACE LEVEL	531.83	528.438	528.438	530.038	530.053	530.023	529.951	529.825	529.615	529.405	529.333	529.303	529.288	528.649		
DEPTH CUT - / FILL +	0	-2.01	-1.94	-0.97	-0.91	-0.97	-0.79	-0.76	-0.43	0.62	0.67	0.64	0.62	0		
EXISTING SURFACE LEVEL	531.83	531.45	531.38	531.01	530.97	530.99	530.74	530.59	530.05	528.79	528.66	528.66	528.67	528.65		
OFFSET FROM CENTRELINE	-12.89	-10.5	-10	-7.6	-7.3	-6.8	-5.6	-3.5	0	3.5	4.7	5.2	5.5	8.06		

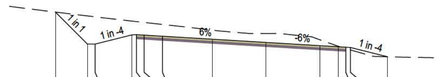
CH 330



DATUM R.L. 527.00

DESIGN SURFACE LEVEL	531.466	529.139	529.139	529.739	529.754	529.724	529.652	529.491	529.281	529.071	528.999	528.969	528.954	528.294		
DEPTH CUT - / FILL +	0	-2.01	-1.94	-1.03	-0.98	-0.94	-0.85	-0.68	-0.76	0.14	0.39	0.49	0.55	0		
EXISTING SURFACE LEVEL	531.47	531.15	531.08	530.77	530.73	530.67	530.51	530.17	530.04	528.93	528.61	528.48	528.41	528.29		
OFFSET FROM CENTRELINE	-13.41	-11.08	-10.58	-8.18	-7.88	-7.38	-5.18	-3.5	0	3.5	4.7	5.2	5.5	8.14		

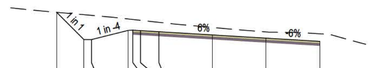
CH 320



DATUM R.L. 526.00

DESIGN SURFACE LEVEL	530.928	528.839	528.839	529.439	529.454	529.424	529.352	529.156	528.946	528.736	528.664	528.634	528.619	528.012		
DEPTH CUT - / FILL +	0	-1.84	-1.78	-0.9	-0.85	-0.83	-0.77	-0.59	-0.58	-0.39	-0.04	0.09	0.16	0		
EXISTING SURFACE LEVEL	530.93	530.68	530.62	530.34	530.31	530.25	530.12	529.75	529.53	529.12	528.7	528.54	528.46	528.01		
OFFSET FROM CENTRELINE	-13.75	-11.67	-11.17	-8.77	-8.47	-7.97	-6.77	-3.5	0	3.5	4.7	5.2	5.5	7.93		

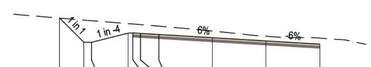
CH 310



DATUM R.L. 526.00

DESIGN SURFACE LEVEL	530.285	528.508	528.508	529.108	529.123	529.093	529.021	528.811	528.601	528.391						
DEPTH CUT - / FILL +	0	-1.63	-1.58	-0.74	-0.7	-0.67	-0.61	-0.49	-0.41	-0.49						
EXISTING SURFACE LEVEL	530.29	530.13	530.09	529.85	529.82	529.76	529.63	529.3	529.01	528.88						
OFFSET FROM CENTRELINE	-13.68	-11.9	-11.4	-9	-8.7	-8.2	-7	-3.5	0	3.5						

CH 300



DATUM R.L. 526.00

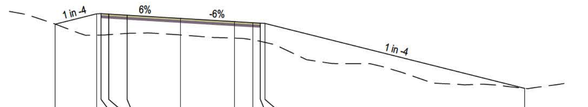
DESIGN SURFACE LEVEL	529.734	528.145	528.145	528.745	528.76	528.73	528.658	528.448	528.238	528.028						
DEPTH CUT - / FILL +	0	-1.45	-1.41	-0.62	-0.58	-0.57	-0.54	-0.43	-0.3	-0.39						
EXISTING SURFACE LEVEL	529.72	529.59	529.55	529.37	529.34	529.3	529.2	528.88	528.54	528.42						
OFFSET FROM CENTRELINE	-13.48	-11.9	-11.4	-9	-8.7	-8.2	-7	-3.5	0	3.5						

CH 290

CROSS SECTIONS

ROAD06

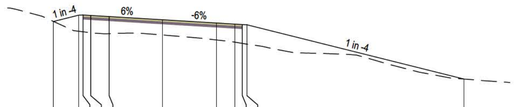
12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:6AM



DATUM R.L. 525.00

DESIGN SURFACE LEVEL	530.913	531.694	531.599	531.569	531.497	531.287	531.077	531.005	530.975	530.96	526.719
DEPTH CUT - / FILL +	0	1.39	1.4	1.34	1.19	1.08	1.07	1.12	1.18	1.24	0
EXISTING SURFACE LEVEL	530.91	530.19	530.2	530.22	530.31	530.21	530	529.89	529.79	529.72	526.72	0
OFFSET FROM CENTRELINE	-8.18	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	22.46

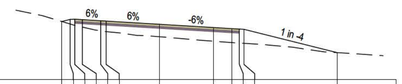
CH 380



DATUM R.L. 525.00

DESIGN SURFACE LEVEL	530.842	531.249	531.264	531.234	531.162	530.952	530.742	530.67	530.64	530.625	527.083
DEPTH CUT - / FILL +	0	1.04	1.1	1.13	1.12	0.99	1.11	1.18	1.23	1.26	0
EXISTING SURFACE LEVEL	530.84	530.21	530.17	530.11	530.05	529.96	529.64	529.49	529.41	529.36	527.08
OFFSET FROM CENTRELINE	-7.13	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	19.67

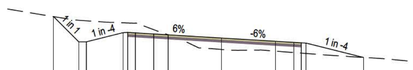
CH 370



DATUM R.L. 527.00

DESIGN SURFACE LEVEL	530.801	530.936	530.951	530.921	530.849	530.628	530.618	530.408	530.336	530.306	530.291	528.77
DEPTH CUT - / FILL +	0	0.3	0.4	0.48	0.66	0.69	0.81	0.89	0.91	0.91	0.91	0
EXISTING SURFACE LEVEL	530.8	530.64	530.55	530.44	530.19	530.14	529.81	529.52	529.43	529.4	529.38	528.77
OFFSET FROM CENTRELINE	-6.39	-5.85	-5.55	-5.05	-3.85	-3.5	0	3.5	4.7	5.2	5.5	11.58

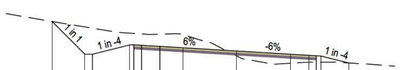
CH 360



DATUM R.L. 527.00

DESIGN SURFACE LEVEL	531.684	530.037	530.037	530.637	530.652	530.622	530.55	530.494	530.284	530.074	530.002	529.972	529.957	529.92
DEPTH CUT - / FILL +	0	-1.41	-1.37	-0.64	-0.62	-0.63	-0.28	-0	0.75	0.64	0.66	0.67	0.68	0
EXISTING SURFACE LEVEL	531.68	531.44	531.41	531.28	531.27	531.26	530.83	530.5	529.54	529.43	529.34	529.3	529.28	529.92
OFFSET FROM CENTRELINE	-10.98	-9.33	-8.83	-6.43	-6.13	-5.63	-4.43	-3.5	0	3.5	4.7	5.2	5.5	9.25

CH 350



DATUM R.L. 527.00

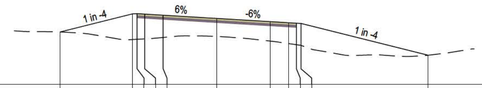
DESIGN SURFACE LEVEL	531.876	529.738	529.738	529.338	529.353	529.323	529.251	530.16	529.95	529.74	529.668	529.638	529.623	529.188
DEPTH CUT - / FILL +	0	-1.78	-1.7	-0.78	-0.74	-0.74	-0.8	-0.85	0.32	0.59	0.46	0.42	0.41	0
EXISTING SURFACE LEVEL	531.88	531.52	531.44	531.12	531.1	531.06	531.05	531.01	529.63	529.15	529.21	529.21	529.21	529.17
OFFSET FROM CENTRELINE	-12.05	-9.92	-9.42	-7.02	-6.72	-6.22	-5.02	-3.5	0	3.5	4.7	5.2	5.5	7.32

CH 340

DATUM R.L. 529.00

DESIGN SURFACE LEVEL	531.572	532.873	532.888	532.880	532.802	532.624	532.446	532.385	532.359	532.344	530.934
DEPTH CUT - / FILL +	0	1.6	1.62	1.57	1.45	1.15	1.23	1.24	1.23	1.2	0
EXISTING SURFACE LEVEL	531.57	531.28	531.26	531.3	531.38	531.47	531.21	531.15	531.13	531.14	530.93
OFFSET FROM CENTRELINE	-10.71	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	11.14

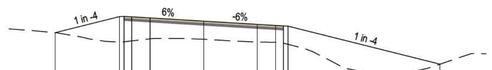
CH 420



DATUM R.L. 528.00

DESIGN SURFACE LEVEL	531.407	532.566	532.601	532.577	532.499	532.289	532.079	532.007	531.977	531.962	529.886
DEPTH CUT - / FILL +	0	1.67	1.67	1.62	1.45	1.18	1.27	1.36	1.4	1.43	0
EXISTING SURFACE LEVEL	531.41	530.91	530.93	530.95	531.05	531.11	530.81	530.65	530.57	530.53	529.89
OFFSET FROM CENTRELINE	-10.22	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	13.8

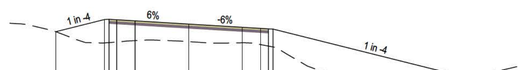
CH 410



DATUM R.L. 527.00

DESIGN SURFACE LEVEL	531.2	532.252	532.267	532.277	532.165	531.955	531.745	531.673	531.643	531.628	529.146
DEPTH CUT - / FILL +	0	1.66	1.66	1.57	1.36	1.18	1.15	1.1	1.13	1.19	0
EXISTING SURFACE LEVEL	531.2	530.59	530.61	530.67	530.8	530.77	530.59	530.57	530.52	530.44	529.15
OFFSET FROM CENTRELINE	-9.71	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	15.43

CH 400



DATUM R.L. 526.00

DESIGN SURFACE LEVEL	531.123	531.918	531.933	531.943	531.831	531.621	531.411	531.339	531.309	531.294	527.999
DEPTH CUT - / FILL +	0	1.53	1.52	1.45	1.29	1.15	1.01	1.06	1.12	1.17	0
EXISTING SURFACE LEVEL	531.12	530.39	530.41	530.47	530.54	530.47	530.4	530.28	530.18	530.13	528
OFFSET FROM CENTRELINE	-8.68	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	18.68

CH 390

CROSS SECTIONS

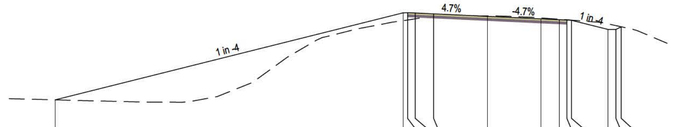
ROAD06

12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:6AM

DATUM R.L. 534.00

DESIGN SURFACE LEVEL	535.971	541.641	541.656	541.637	541.592	541.459	541.327	541.282	541.263	541.248	541.071
DEPTH CUT - / FILL +	0	0.37	0.34	0.27	0.14	-0.03	0	0.06	0.09	0.1	0
EXISTING SURFACE LEVEL	535.97	541.27	541.31	541.36	541.45	541.49	541.33	541.22	541.17	541.15	541.07
OFFSET FROM CENTRELINE	-28.18	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.21

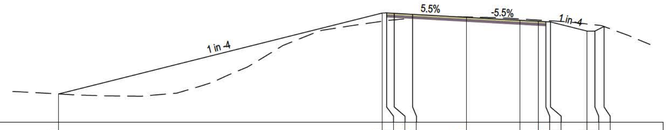
CH 30



DATUM R.L. 533.00

DESIGN SURFACE LEVEL	535.205	540.884	540.899	540.875	540.819	540.656	540.493	540.437	540.414	540.399	539.799	539.779	539.975
DEPTH CUT - / FILL +	0	0.51	0.48	0.38	0.18	-0.03	-0.06	-0.03	-0.02	-0.01	-0.36	-0.25	0
EXISTING SURFACE LEVEL	535.2	540.37	540.41	540.49	540.64	540.68	540.55	540.47	540.43	540.41	540.16	540.25	539.98
OFFSET FROM CENTRELINE	-28.21	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	8.75

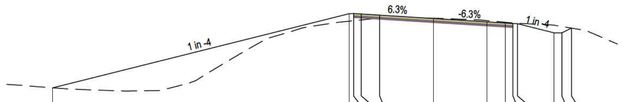
CH 20



DATUM R.L. 533.00

DESIGN SURFACE LEVEL	534.949	540.126	540.141	540.113	540.047	539.853	539.66	539.593	539.566	539.551	539.351	539.325
DEPTH CUT - / FILL +	0	0.53	0.51	0.43	0.25	-0.02	-0.09	-0.08	-0.08	-0.07	-0.46	-0.41	0
EXISTING SURFACE LEVEL	534.85	539.59	539.64	539.69	539.8	539.87	539.75	539.67	539.64	539.62	539.42	539.36	539.25
OFFSET FROM CENTRELINE	-26.61	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	9

CH 10



DATUM R.L. 533.00

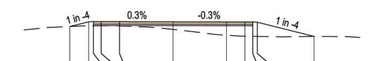
DESIGN SURFACE LEVEL	534.525	538.36	538.375	538.344	538.289	539.05	538.831	538.756	538.725	538.71	538.11	538.25	538.423
DEPTH CUT - / FILL +	0	0.49	0.47	0.39	0.23	-0.01	-0.08	-0.05	-0.03	-0.03	-0.5	-0.42	0
EXISTING SURFACE LEVEL	534.53	538.87	538.9	538.95	539.04	539.06	538.91	538.8	538.76	538.74	538.61	538.67	538.42
OFFSET FROM CENTRELINE	-24.84	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	9.03

CH 0

DATUM R.L. 543.00

DESIGN SURFACE LEVEL	545.562	546.02	546.035	546.038	546.045	546.066	546.086	546.093	546.096	546.091	545.839
DEPTH CUT - / FILL +	0	0.44	0.46	0.47	0.51	0.75	0.76	0.61	0.52	0.44	0
EXISTING SURFACE LEVEL	545.56	545.58	545.59	545.57	545.53	545.32	545.33	545.48	545.58	545.64	545.84
OFFSET FROM CENTRELINE	-7.33	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.47

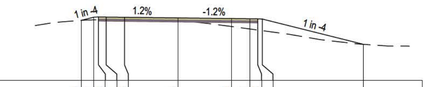
CH 80



DATUM R.L. 542.00

DESIGN SURFACE LEVEL	544.757	545.085	545.08	545.079	545.075	545.066	545.056	545.052	545.051	545.056	544.113
DEPTH CUT - / FILL +	0	0.27	0.28	0.28	0.29	0.5	0.87	0.93	0.93	0.92	0
EXISTING SURFACE LEVEL	544.76	544.8	544.8	544.8	544.79	544.57	544.19	544.12	544.12	544.11	544.11
OFFSET FROM CENTRELINE	-6.73	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	9.19

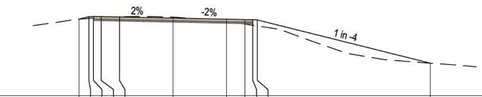
CH 70



DATUM R.L. 540.00

DESIGN SURFACE LEVEL	543.993	544.111	544.126	544.12	544.106	544.066	544.025	544.011	544.005	543.99	542.34
DEPTH CUT - / FILL +	0	0.17	0.18	0.16	0.12	0.18	0.52	0.67	0.73	0.76	0
EXISTING SURFACE LEVEL	543.9	543.94	543.95	543.96	543.99	543.88	543.5	543.34	543.27	543.23	542.34
OFFSET FROM CENTRELINE	-8.33	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	12.1

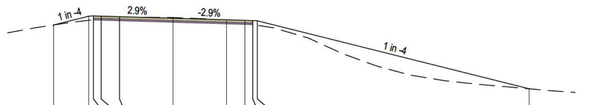
CH 60



DATUM R.L. 538.00

DESIGN SURFACE LEVEL	542.895	543.156	543.171	543.161	543.137	543.066	542.994	542.97	542.96	542.945	540.122
DEPTH CUT - / FILL +	0	0.11	0.1	0.05	-0.01	-0.06	0.18	0.29	0.36	0.39	0
EXISTING SURFACE LEVEL	543	543.05	543.07	543.11	543.15	543.13	542.82	542.68	542.6	542.55	540.12
OFFSET FROM CENTRELINE	-6.14	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	16.79

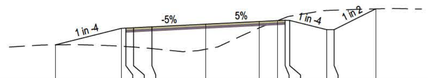
CH 50



DATUM R.L. 536.00

DESIGN SURFACE LEVEL	541.822	542.289	542.314	542.339	542.364	542.262	542.161	542.126	542.111	542.086	537.658
DEPTH CUT - / FILL +	0	0.27	0.25	0.18	0.09	-0.04	0.09	0.2	0.27	0.3	0
EXISTING SURFACE LEVEL	541.82	542.13	542.16	542.22	542.28	542.31	542.07	541.92	541.85	541.8	537.66
OFFSET FROM CENTRELINE	-7.81	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	23.25

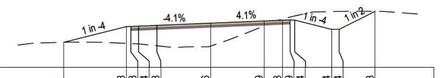
CH 40



DATUM R.L. 547.00

DESIGN SURFACE LEVEL	548.361	550.438	550.453	550.478	550.537	550.711	550.885	550.945	550.97	550.955	550.355	551.708
DEPTH CUT - / FILL +	0	1.17	1.2	1.26	1.42	1.64	0.42	0.01	-0.16	-0.27	-1.25	-1.47	0
EXISTING SURFACE LEVEL	548.36	549.27	549.25	549.22	549.12	549.07	550.47	550.94	551.13	551.23	551.6	551.62	551.71
OFFSET FROM CENTRELINE	-9.81	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	11.11

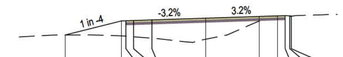
CH 130



DATUM R.L. 547.00

DESIGN SURFACE LEVEL	548.63	549.648	549.663	549.694	549.733	549.876	550.019	550.068	550.089	550.074	549.474	549.474	550.648
DEPTH CUT - / FILL +	0	1.09	1.12	1.16	1.33	1.5	0.33	-0.07	-0.18	-0.27	-1.15	-1.17	0
EXISTING SURFACE LEVEL	548.63	548.56	548.54	548.52	548.4	548.38	549.69	550.14	550.27	550.35	550.63	550.64	550.65
OFFSET FROM CENTRELINE	-9.57	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	10.75

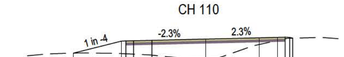
CH 120



DATUM R.L. 546.00

DESIGN SURFACE LEVEL	547.89	548.807	548.822	548.838	548.877	548.99	549.102	549.141	549.157	549.142	549.117
DEPTH CUT - / FILL +	0	0.97	1.01	1.06	1.2	1.38	0.3	0.15	0.1	0.04	0
EXISTING SURFACE LEVEL	547.89	547.83	547.82	547.77	547.68	547.61	548.8	548.99	549.06	549.1	549.12
OFFSET FROM CENTRELINE	-9.17	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	5.6

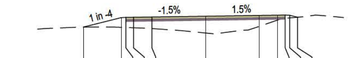
CH 110



DATUM R.L. 545.00

DESIGN SURFACE LEVEL	547.194	547.915	547.93	547.942	547.97	548.052	548.134	548.162	548.174	548.159	548.111
DEPTH CUT - / FILL +	0	0.81	0.84	0.87	0.97	1.25	0.44	0.2	0.11	0.05	0
EXISTING SURFACE LEVEL	547.13	547.11	547.09	547.07	547	546.81	547.7	547.96	548.07	548.11	548.11
OFFSET FROM CENTRELINE	-8.62	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	5.69

CH 100



DATUM R.L. 544.00

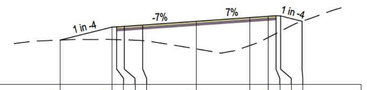
DESIGN SURFACE LEVEL	546.356	546.974	546.989	546.997	547.014	547.066	547.117	547.135	547.142	547.127	546.989
DEPTH CUT - / FILL +	0	0.63	0.66	0.68	0.75	1.1	0.72	0.32	0.21	0.17	0
EXISTING SURFACE LEVEL	546.36	546.34	546.33	546.31	546.26	545.97	546.4	546.81	546.93	546.96	547
OFFSET FROM CENTRELINE	-7.97	-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	6.01

CH 90

CROSS SECTIONS

ROAD07

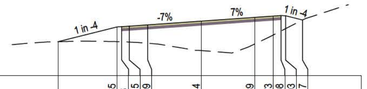
12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:6AM



DATUM R.L. 550.00

DESIGN SURFACE LEVEL	552.897		553.746	553.791	553.798	553.88	554.125	554.37	554.454	554.489	554.474	554.123
DEPTH CUT - / FILL +	0		0.81	0.83	0.88	1.02	1.8	1.83	1.39	1.16	0.99	0
EXISTING SURFACE LEVEL	552.9		552.93	552.93	552.91	552.86	552.32	552.54	553.07	553.32	553.48	554.12
OFFSET FROM CENTRELINE	-8.9		-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	8.9

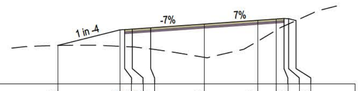
CH 180



DATUM R.L. 550.00

DESIGN SURFACE LEVEL	552.2		553.185	553.18	553.715	553.295	553.544	553.789	553.873	553.908	553.893	553.617
DEPTH CUT - / FILL +	0		0.98	0.98	1.04	1.2	1.92	1.73	1.23	1.01	0.84	0
EXISTING SURFACE LEVEL	552.2		552.21	552.2	552.7	552.1	551.62	552.06	552.64	552.9	553.05	553.62
OFFSET FROM CENTRELINE	-9.96		-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	9.6

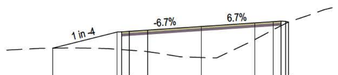
CH 170



DATUM R.L. 549.00

DESIGN SURFACE LEVEL	551.514		552.533	552.548	552.583	552.667	552.912	553.157	553.241	553.276	553.261	553.198
DEPTH CUT - / FILL +	0		1.08	1.11	1.16	1.38	2.17	1.38	0.72	0.5	0.34	0
EXISTING SURFACE LEVEL	551.51		551.46	551.44	551.42	551.29	550.74	551.8	552.52	552.78	552.92	553.14
OFFSET FROM CENTRELINE	-9.68		-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	9.89

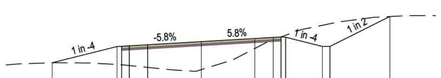
CH 160



DATUM R.L. 548.00

DESIGN SURFACE LEVEL	550.813		551.865	551.88	551.943	551.994	552.229	552.464	552.545	552.578	552.563	552.517
DEPTH CUT - / FILL +	0		1.12	1.16	1.23	1.41	2.02	1.09	0.53	0.31	0.14	0
EXISTING SURFACE LEVEL	550.81		550.74	550.72	550.69	550.58	550.21	551.38	552.02	552.27	552.42	552.52
OFFSET FROM CENTRELINE	-9.71		-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	9.89

CH 150



DATUM R.L. 548.00

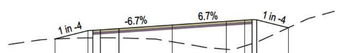
DESIGN SURFACE LEVEL	550.115		551.177	551.192	551.237	551.291	551.496	551.7	551.77	551.789	551.784	551.184	551.184	553.133
DEPTH CUT - / FILL +	0		1.18	1.21	1.29	1.48	1.83	0.65	0.16	0	-0.13	-1.37	-1.48	0
EXISTING SURFACE LEVEL	550.12		550	549.98	549.93	549.81	549.67	551.05	551.61	551.8	551.91	552.56	552.67	553.13
OFFSET FROM CENTRELINE	-9.75		-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.9	8.4	12.3

CH 140

DATUM R.L. 553.00

DESIGN SURFACE LEVEL	554.849		555.244	555.269	555.288	555.358	555.564				
DEPTH CUT - / FILL +	0		0.31	0.32	0.34	0.39	0.74				
EXISTING SURFACE LEVEL	554.85		554.93	554.94	554.95	554.97	554.82				
OFFSET FROM CENTRELINE	-7.08		-5.5	-5.2	-4.7	-3.5	0				

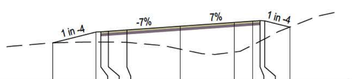
CH 210



DATUM R.L. 552.00

DESIGN SURFACE LEVEL	554.223		554.769	554.798	554.818	554.899	555.135	555.371	555.452	555.486	555.471	554.954
DEPTH CUT - / FILL +	0		0.48	0.49	0.52	0.61	1.1	1.82	1.69	1.57	1.46	0
EXISTING SURFACE LEVEL	554.22		554.29	554.29	554.3	554.29	554.04	553.55	553.76	553.92	554.01	554.95
OFFSET FROM CENTRELINE	-7.68		-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.57

CH 200



DATUM R.L. 551.00

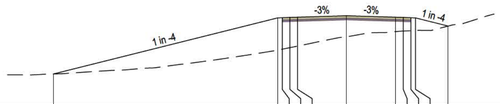
DESIGN SURFACE LEVEL	553.566		554.278	554.291	554.321	554.41	554.655	554.9	554.994	555.019	555.004	554.595
DEPTH CUT - / FILL +	0		0.66	0.67	0.7	0.81	1.5	1.94	1.56	1.35	1.18	0
EXISTING SURFACE LEVEL	553.57		553.62	553.62	553.62	553.6	553.15	552.96	553.42	553.67	553.82	554.59
OFFSET FROM CENTRELINE	-8.34		-5.5	-5.2	-4.7	-3.5	0	3.5	4.7	5.2	5.5	7.14

CH 190

CROSS SECTIONS

ROAD07

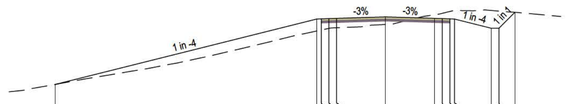
12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:6AM



DATUM R.L. 522.00

DESIGN SURFACE LEVEL	524.003	527.664	527.679	527.694	527.709	527.805	527.709	527.694	527.679	527.664	527.132
DEPTH CUT - / FILL +	0	2.11	2.06	1.57	1.89	1.37	0.94	0.89	0.85	0.82	0
EXISTING SURFACE LEVEL	524	525.56	525.62	527.7	525.82	526.44	526.77	526.8	526.83	526.84	527.13
OFFSET FROM CENTRELINE	-19.15	-4.5	-4.2	-3.7	-3.2	0	3.2	3.7	4.2	4.5	6.63

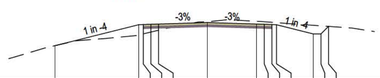
CH 40



DATUM R.L. 522.00

DESIGN SURFACE LEVEL	524.208	528.476	528.493	528.498	528.523	528.619	528.523	528.498	528.493	528.476	527.878	527.878	528.92
DEPTH CUT - / FILL +	0	0.78	0.73	0.74	0.61	0.49	-0.23	-0.34	-0.48	-0.56	-1.16	-1.12	0
EXISTING SURFACE LEVEL	524.21	527.7	527.76	527.77	527.91	528.12	528.76	528.85	528.97	529.04	529.04	529	528.92
OFFSET FROM CENTRELINE	-21.58	-4.5	-4.2	-3.7	-3.2	0	3.2	3.7	4.2	4.5	6.9	7.4	8.44

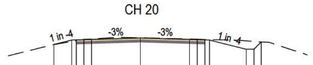
CH 30



DATUM R.L. 526.00

DESIGN SURFACE LEVEL	528.184	529.554	529.569	529.584	529.599	529.695	529.599	529.584	529.569	529.554	528.954	528.954	529.447
DEPTH CUT - / FILL +	0	0.67	0.61	0.51	0.4	-0.06	-0.18	-0.17	-0.14	-0.14	-0.56	-0.53	0
EXISTING SURFACE LEVEL	528.18	528.88	528.96	529.08	529.19	529.75	529.78	529.75	529.71	529.69	529.52	529.48	529.45
OFFSET FROM CENTRELINE	-9.98	-4.5	-4.2	-3.7	-3.2	0	3.2	3.7	4.2	4.5	6.9	7.4	7.89

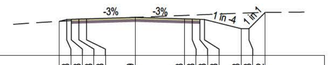
CH 20



DATUM R.L. 527.00

DESIGN SURFACE LEVEL	529.899	530.185	530.2	530.215	530.23	530.326	530.23	530.215	530.2	530.185	529.595	529.595	530.063
DEPTH CUT - / FILL +	0	0.1	0.06	0.01	-0.02	-0.01	-0.02	-0.02	-0.02	-0.03	-0.55	-0.51	0
EXISTING SURFACE LEVEL	529.9	530.09	530.14	530.22	530.25	530.33	530.25	530.24	530.22	530.21	530.13	530.1	530.06
OFFSET FROM CENTRELINE	-5.64	-4.5	-4.2	-3.7	-3.2	0	3.2	3.7	4.2	4.5	6.9	7.4	7.88

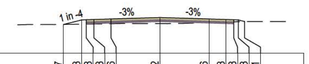
CH 10



DATUM R.L. 528.00

DESIGN SURFACE LEVEL	530.21	530.328	530.343	530.358	530.373	530.469	530.373	530.358	530.343	530.328	529.728	529.728	530.792
DEPTH CUT - / FILL +	0	0.09	0.09	0.08	0.07	0	-0.22	-0.26	-0.29	-0.32	-1.01	-1.03	0
EXISTING SURFACE LEVEL	530.21	530.24	530.25	530.28	530.31	530.47	530.59	530.61	530.64	530.65	530.74	530.76	530.79
OFFSET FROM CENTRELINE	-4.97	-4.5	-4.2	-3.7	-3.2	0	3.2	3.7	4.2	4.5	6.9	7.4	8.46

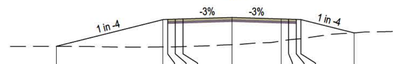
CH 0



DATUM R.L. 525.00

DESIGN SURFACE LEVEL	526.877	527.173	527.188	527.203	527.236	527.332	527.236	527.203	527.188	527.173	527.071
DEPTH CUT - / FILL +	0	0.28	0.29	0.3	0.31	0.39	0.24	0.17	0.14	0.11	0
EXISTING SURFACE LEVEL	526.88	526.9	526.9	526.91	526.93	526.94	527	527.04	527.05	527.06	527.07
OFFSET FROM CENTRELINE	-5.3	-5.12	-4.82	-4.32	-3.2	0	3.2	4.32	4.82	5.12	5.52

CH 60



DATUM R.L. 524.00

DESIGN SURFACE LEVEL	525.492	527.236	527.251	527.266	527.281	527.377	527.281	527.266	527.251	527.236	528.369
DEPTH CUT - / FILL +	0	1.78	1.79	1.8	1.81	1.78	1.44	1.35	1.29	1.25	0
EXISTING SURFACE LEVEL	525.49	525.45	525.46	525.46	525.47	525.6	525.84	525.92	525.96	525.99	526.37
OFFSET FROM CENTRELINE	-11.47	-4.5	-4.2	-3.7	-3.2	0	3.2	3.7	4.2	4.5	7.96

CH 50

CROSS SECTIONS

ROAD08

12d Model
Horizontal Scale 1:200
Vertical Scale 1:200
Wed 13 May 2026 - 9:6AM