
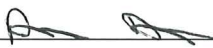



**AGENDA**  
**COUNCIL COMMITTEE MEETING**  
**MUNICIPAL DISTRICT OF PINCHER CREEK**  
**July 14, 2026**  
**11:00 am**  
**Council Chambers**

- 1) Approval of Agenda
- 2) Delegations
- 3) Closed Session
  - a) 11:00 am – Heritage Acres – ATIA Sec. 19.1
  - b) Pincher Creek Curling Club Funding Discussion – ATIA Sec. 19.1
- 4) Maycroft Road Rehabilitation Assessment
  - Report from Utilities & Infrastructure, dated July 7, 2026
- 5) Round Table
- 6) Adjournment

## Recommendation to Council Committee

<b>TITLE: Maycroft Road Rehabilitation Assessment (Transportation Master Plan) Update</b>			
<b>PREPARED BY: David Desabrais</b>		<b>DATE: July 7<sup>th</sup>, 2026</b>	
<b>DEPARTMENT: Utilities &amp; Infrastructure</b>			
<i>David Desabrais</i> <b>Department Supervisor</b>	<i>26/07/06</i> <b>Date</b>	<b>ATTACHMENTS:</b> <b>1. Maycroft Road Preliminary Design</b>	
<b>APPROVALS:</b>			
 <b>Department Director</b>	<i>26/07/06</i> <b>Date</b>	 <b>CAO</b>	<i>2026/07/06</i> <b>Date</b>

**RECOMMENDATION :**

**That Council receive the Maycroft Road Upgrades Assessment (Transportation Master Plan) for information.**

**BACKGROUND:**

MPE Engineering was contracted to provide a preliminary design for rehabilitation and paving Maycroft road as part the Transportation Master Plan (TMP). This assessment was completed in 2025 (*See Attachment #1*).

The TMP has now been completed. Administration is bringing forth all reports to Council for information on an individual basis due to the significant amount of information. This portion of the TMP made up about 5% of overall project funds (\$200,000) spent under the Alberta Community Partnership (ACP) grant.

The preliminary design was complete with intent to design to a standard that would be accepted under grant funding. Lesser standards may be feasible, but would require speed reductions and have higher operational costs and likelihood of earlier issues/failures.

**Key takeaways:**

- Estimated cost to upgrade & pave: **\$20,976,000 - 24,793,036**
- Estimated cost to rebuild road to standard (no paving): **\$13,115,000 - 15,501,936**
- MD now has point in time video footage for Maycroft, raw drone survey files, and cross section drawings for future work

No action related to capital work is planned for Maycroft road at this time.

## Recommendation to Council Committee

**FINANCIAL IMPLICATIONS:**

N/A



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## TECHNICAL MEMORANDUM

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Date: 2025-07-09

Project No.: 1770-031-00

To: David Desabrais, P.Eng., Utilities & Infrastructure Manager

E-mail: adminInfra@mdpincercreek.ab.ca

From: Tilak De Silva, P.Eng., Senior Transportation Engineer

Subject: M.D of Pincher Creek – Maycroft Road Upgrades – Preliminary Design

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### 1. Purpose

This memorandum outlines the design completed for the Maycroft Road Rehabilitation project. The goal is to upgrade the road to a paved standard for a design speed of 90km/h (a posted speed of 80km/h) based on Alberta Transportation's Highway Geometric Design Guide. The project covers 16 km of road connecting Highway 22 to Highway 40. The design includes surface modelling, alignment design, profile development, and right-of-way (ROW) analysis. RoadENG was used for geometric design, and Virtual Surveyor was used for generating the surface model. This memo summarizes the design approach, preliminary drawings, and capital cost estimate.

### 2. Project Overview

The project includes the upgrade of Maycroft Road, which is currently gravel with cold mix sections, to a paved standard. The route spans 16 km from Highway 22 to the M.D. of Pincher Creek boundary. The road connects regional traffic between Highway 22 and Highway 40 while serving local traffic providing the mobility needs of the residents.

The current road width varies from 8.0 m to 12.0 m, with an average width of 10.0 m. The posted speed is 60 km/h. The new design targets an 80 km/h posted speed (90 km/h design speed). The existing terrain includes rolling hills and uneven slopes, which affect the alignment and grading.

The current ROW (Right-of-Way) is 30.5 m wide. Some road segments lie outside the existing ROW. The new design requires additional land to accommodate the roadway and its side slopes. About 13.16 ha (32.52 acres) of additional land is needed. Preliminary ROW plans are provided in Appendix B.

### 3. Design Basis

The design follows Alberta Transportation's Highway Geometric Design Guide (Chapter B- Alignment Elements). Key parameters are:



Parameter	Criteria
Total Road Length	16.00 km
Design Speed	90 km/h
Posted Speed	80 km/h
Paved Road Width	9.0 m
Asphalt Layer	125 mm
Granular Base Layer	350 mm
Side Slopes	3:1
Crown Slope	3%
Minimum Ditch Depth	1.0 m
Minimum Ditch Width	1.0 m
Minimum Horizontal Radius	340 m
Maximum Superelevation	6% (per Table B-3-5-3a)
Minimum Sag Vertical Curve K	38
Minimum Crest Vertical Curve K	39
Maximum / Minimum Grade	±7%
Eye Height	1.08 m (per B.2.2.1)
Object Height	0.6 m (per B.2.2.2)
Maximum Side Friction	0.13 (per Table B-3-3a)
Deceleration Rate	3.40 m/s <sup>2</sup> (per B.2.3)
Acceleration Rate	0.981 m/s <sup>2</sup>
Reaction Time	2.5 seconds (per B.2.3)

To meet the geometric standards for an 80 km/h posted speed, adjustments are necessary to both the horizontal and vertical alignments. This includes:

- Modifying vertical profiles to flatten crests and sags, improving driver’s sightlines and improving ride comfort.
- Regrading side slopes and backslopes to improve stability and drainage.
- Realigning horizontal curves to achieve a minimum radius of 340 meters, while applying appropriate super elevation up to 6%, as per design criteria.

To meet design speed requirements, vertical and horizontal adjustments were made. This includes profile adjustments, regrading slopes, and curve realignments. A balanced earthwork design was targeted with 20% soil shrinkage.

#### 4. Design Methodology

High-resolution topographic data for the 16 km road corridor was acquired through a drone survey. Drone survey data was used to create a digital terrain model in Virtual Surveyor. Using the centerline and existing ground data, profiles and cross-sections were created. The cross-section used a 9.0 m paved width with ditch design based on required depth and width. Horizontal curves were adjusted to maintain a 340 m radius minimum. Superelevation was added based on curve geometry, with a maximum of 6%.

#### 5. Right-of-Way Requirements

To accommodate the proposed roadway and side slopes, additional land acquisition is necessary beyond the existing ROW. A total of 13.16 ha of land is required to accommodate the new design, mainly to maintain 3:1 side slope. The alignment was kept close to the existing path to minimize impact. Mapping and parcel information are included in Appendix B (Sheets 3.0 to 3.2).

#### 6. Drainage

The surface run off/drainage conditions were maintained on both sides of Maycroft Road throughout the design. Drainage paths were marked with arrows where the drainage directions change.

#### 7. Cold Mix Preservation and Constraints

During the preliminary discussions, the MD indicated a preference to preserve sections of road in good condition, particularly those with 80% to 100% cold mix remaining. However, during detailed geometric design, it was determined that keeping those sections without compromising design standards (e.g., radius, superelevation, grade) was not feasible. As a result, full re-grading and re-alignment were applied to provide safe and consistent geometry along the entire corridor.

#### 8. Earthwork Balance

The design is earthwork balanced, assuming a 20% soil shrinkage factor. This approach was taken to minimize haul requirements and reduce overall construction cost. Cut and fill volumes were reviewed during cross-section analysis to ensure practical constructability and minimal borrow/import requirements.

#### 9. Cost Estimate

Class C cost estimate was prepared for the Maycroft Road Upgrade works. The estimate is based on the preliminary design and approximate quantities. As such, it should only be treated as an approximation for budgetary purposes. The estimated capital cost for the proposed works is **\$20,976,732 plus a 20% contingency** for a total capital cost of **\$24,793,036**. The detailed cost estimate for the works is attached.

A high-level preliminary cost estimate has been developed for the full road reconstruction, incorporating anticipated expenditures related to land acquisition, construction, engineering, and contingency. The breakdown is as follows:

- Right-of-Way Acquisition (5.23 ha @ \$10,000/acre): \$129,400
- Road Reconstruction (16 km): \$18,952,120

- Engineering Allowance (10%): \$1,895,212
- Contingency Allowance (20%): \$3,816,304

Total Estimated Project Cost: \$24,793,036

## 10. Submission and Review

The Preliminary drawing set and cost estimate are attached with this memo, including plan and profile sheets, cross sections, and proposed ROW mapping. The design and documentation submitted have been prepared in accordance with provincial standards and project-specific direction.

## 11. Assumptions

The following assumptions were made in the preparation of the preliminary designs drawings and the cost estimates included with this memorandum.

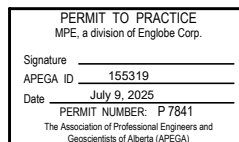
- Geotechnical Investigation was not carried out and a typical pavement structure was assumed with subgrade preparation of 300 mm as stated below:
  - 125 mm of ACP (Asphalt Concrete Pavement)
  - 350 mm of GBC (Granular Base Course))
- Grading work will not encounter any rock excavations
- No blasting work will be required which will incur additional costs to the construction
- No environmentally sensitive section is reported.

## 12. Closure

We thank you for the opportunity to be of service and to have prepared this report on your behalf. We look forward to assisting you in implementing your plans in the future. If you have any questions regarding our report or if clarification is required, please contact the undersigned.

Yours truly,

**MPE a Division of Englobe**



Tilak De Silva, P.Eng., PTOE, MSc.

Senior Transportation Engineer

### Encloser:

Appendix A: Cost Estimate

Appendix B: Preliminary Design Drawing Set

# APPENDIX - A : COST ESTIMATE



## MAYCROFT ROAD - COST ESTIMATE (Gravel Surface)

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
<b>General Items</b>					
1	General Requirements (Bonding, Insurance, Coordination etc.)	L.S.	\$ 525,000	1	\$ 525,000
2	Mobilization / Demobilization	L.S.	\$ 300,000	1	\$ 300,000
3	Traffic Accomadation	L.S.	\$ 200,000	1	\$ 200,000
				<b>SUBTOTAL</b>	<b>\$ 1,025,000</b>
<b>Site Works and Demolition</b>					
4	Hydro Excavation	Hour	\$ 500	40	\$ 20,000
5	Topsoil Stripping	m <sup>2</sup>	\$ 2	256,000	\$ 512,000
6	Cold Milling Asphalt (60mm Depth)	m <sup>2</sup>	\$ 6	67,760	\$ 406,560
7	Common Excavation	m <sup>3</sup>	\$ 12	59,500	\$ 714,000
8	Undercut Excavation & Granular Backfill c/w Geotextile (Softspots)	m <sup>3</sup>	\$ 110	576	\$ 63,360
9	Borrow Excavation	m <sup>3</sup>	\$ 30	0	\$ -
10	Approach Construction c/w 600mm dia CSP culvert	Unit	\$ 10,000	15	\$ 150,000
11	Remove and Salvage of CSP Culverts	m	\$ 150	192	\$ 28,800
12	Topsoil Placement and Hydroseeding	m <sup>2</sup>	\$ 4	304,000	\$ 1,216,000
				<b>SUBTOTAL</b>	<b>\$ 3,090,720</b>
<b>Surface Works</b>					
13	Subgrade Preparation	m <sup>2</sup>	\$ 6	224,000	\$ 1,344,000
14	Geotextile- Supply and Install (Non-woven)	m <sup>2</sup>	\$ 4	246,400	\$ 862,400
15	Base Granular material (300mm depth)	m <sup>3</sup>	\$ 75	61,800	\$ 4,635,000
16	Surface Gravel (50mm depth)	m <sup>2</sup>	\$ 4	160,000	\$ 640,000
17	Extend Existing Culvert c/w Coupler and RipRap	m	\$ 250	40	\$ 10,000
18	Supply and install 600mm CSP Culvert c/w RipRap	m	\$ 750	224	\$ 168,000
19	Signs and posts	L.S.	\$ 30,000	1	\$ 30,000
				<b>SUBTOTAL</b>	<b>\$ 7,689,400</b>
<b>Summary</b>					
A	General Items				\$ 1,025,000
B	Site works and Demolition				\$ 3,090,720
C	Surface Works				\$ 7,689,400
D	Land Required for proposed RoW (12.94 Acre)				\$ 129,400
<b>GRAND SUBTOTAL</b>					<b>\$ 11,934,520</b>
ENGINEERING (10%)					\$ 1,180,512
CONTINGENCY ALLOWANCE (20%)					\$ 2,386,904
<b>GRAND TOTAL</b>					<b>\$ 15,501,936</b>

**Disclaimer:** This cost estimate is an opinion of probable costs and is a function of many factors that can change with time; it must not be relied upon as the actual cost for the associated work.

**Assumptions:**

- No allowance for modification or relocation of existing shallow utilities.
- No allowance for site occupancy.
- One soft spot measuring 20m in length, 4m in width and 0.45m in depth is assumed for every kilometer of roadway.
- Pavement markings to be painted. No allowance for thermoplastic markings.



## MAYCROFT ROAD - COST ESTIMATE (Asphalt Paved Surface)

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
<b>General Items</b>					
1	General Requirements (Bonding, Insurance, Coordination etc.)	L.S.	\$ 800,000	1	\$ 800,000
2	Mobilization and Demobilization	L.S.	\$ 500,000	1	\$ 500,000
3	Traffic Accommodation	L.S.	\$ 350,000	1	\$ 350,000
				<b>SUBTOTAL</b>	<b>\$ 1,650,000</b>
<b>Site Works and Demolition</b>					
4	Hydro Excavation	Hour	\$ 500	40	\$ 20,000
5	Topsoil Stripping	m <sup>2</sup>	\$ 2	256,000	\$ 512,000
6	Cold Milling Asphalt (60mm Depth)	m <sup>2</sup>	\$ 6	67,760	\$ 406,560
7	Common Excavation	m <sup>3</sup>	\$ 12	59,500	\$ 714,000
8	Undercut Excavation & Granular Backfill c/w Geotextile (Softspots)	m <sup>3</sup>	\$ 110	576	\$ 63,360
9	Borrow Excavation	m <sup>3</sup>	\$ 30	0	\$ -
10	Approach Construction c/w 600mm dia CSP culvert	Unit	\$ 10,000	15	\$ 150,000
11	Remove and Salvage of CSP Culverts	m	\$ 150	192	\$ 28,800
12	Topsoil Placement and Hydroseeding	m <sup>2</sup>	\$ 4	304,000	\$ 1,216,000
				<b>SUBTOTAL</b>	<b>\$ 3,090,720</b>
<b>Surface Works</b>					
13	Subgrade Preparation	m <sup>2</sup>	\$ 6	224,000	\$ 1,344,000
14	Geotextile- Supply and Install (Non-woven)	m <sup>2</sup>	\$ 4	246,400	\$ 862,400
15	Base Granular material (300mm depth)	m <sup>3</sup>	\$ 75	61,800	\$ 4,635,000
16	Hotmix Asphalt 125mm Compacted Depth c/w Prime and Tack Coats	m <sup>2</sup>	\$ 390	18,200	\$ 7,098,000
17	Extend Existing Culvert c/w Coupler and RipRap	m	\$ 250	40	\$ 10,000
18	Supply and install 600mm CSP Culvert c/w RipRap	m	\$ 750	224	\$ 168,000
19	Roadway Lines - Supply Paint and Painting	km	\$ 4,000	16	\$ 64,000
20	Signs and posts	L.S.	\$ 30,000	1	\$ 30,000
				<b>SUBTOTAL</b>	<b>\$ 14,211,400</b>
<b>Summary</b>					
A	General Items				\$ 1,650,000
B	Site works and Demolition				\$ 3,090,720
C	Surface Works				\$ 14,211,400
D	Land Required for proposed RoW (12.94 Acre)				\$ 129,400
				<b>GRAND SUBTOTAL</b>	<b>\$ 19,081,520</b>
ENGINEERING (10%)					\$ 1,895,212
CONTINGENCY ALLOWANCE (20%)					\$ 3,816,304
<b>GRAND TOTAL</b>					<b>\$ 24,793,036</b>

**Disclaimer:** This cost estimate is an opinion of probable costs and is a function of many factors that can change with time; it must not be relied upon as the actual cost for the associated work.

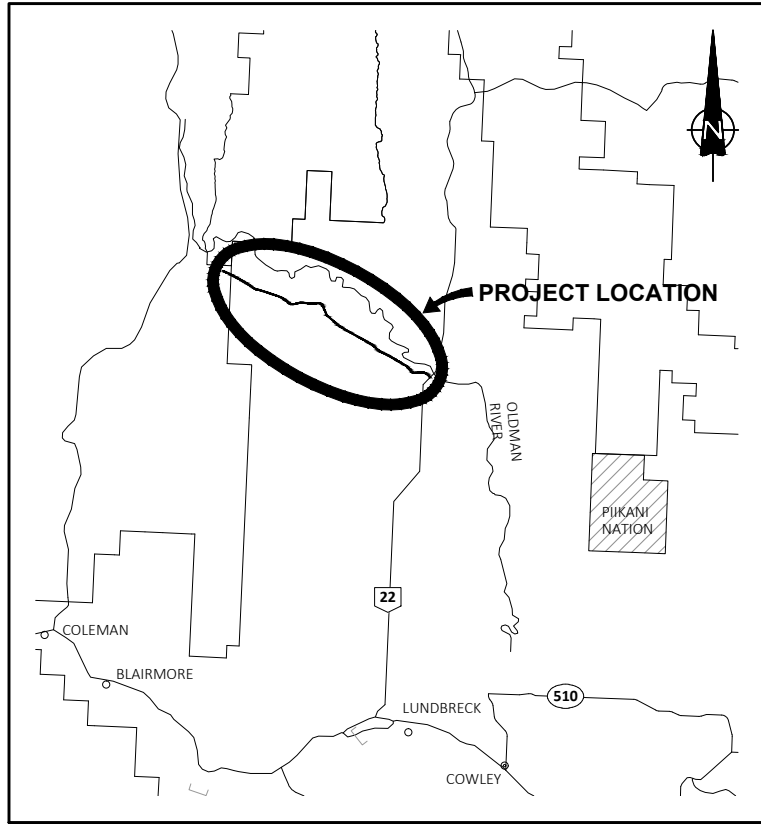
**Assumptions:**

- No allowance for modification or relocation of existing shallow utilities.
- No allowance for site occupancy.
- One soft spot measuring 20m in length, 4m in width and 0.45m in depth is assumed for every kilometer of roadway.
- Pavement markings to be painted. No allowance for thermoplastic markings.

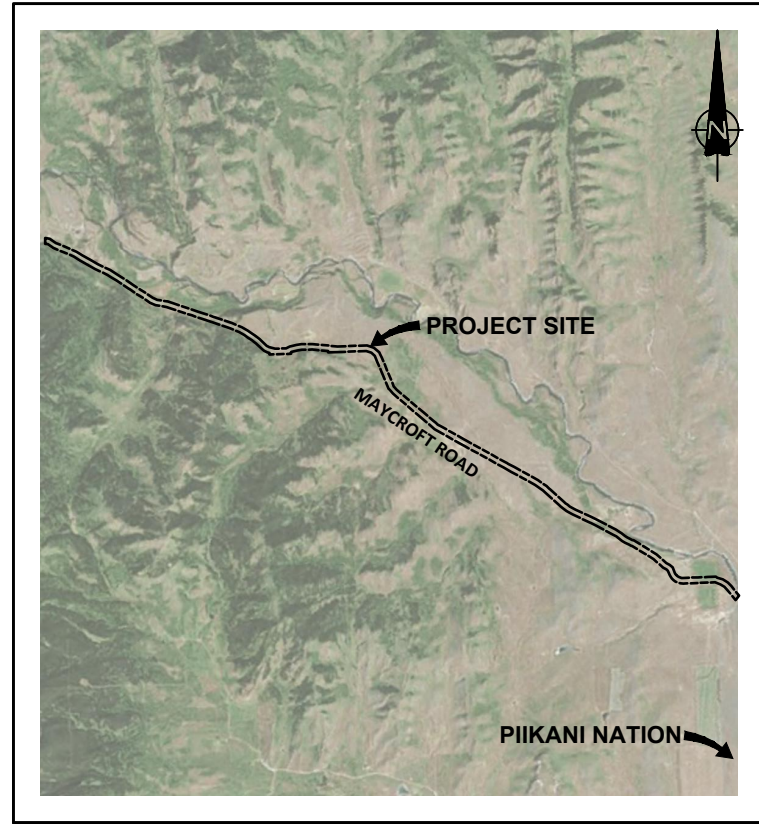
# **APPENDIX - B : PRELIMINARY DESIGN DRAWING SET**



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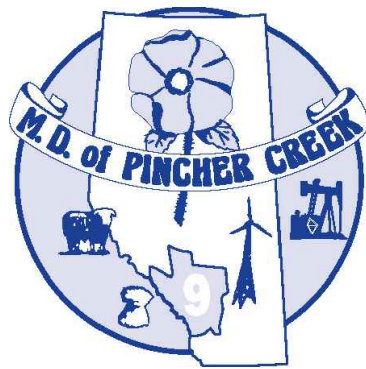
LOCATION PLAN



SITE PLAN

LIST OF DRAWINGS

- TITLE PAGE
- CIVIL
- C0.1 LEGEND
  - C0.2 ABBREVIATIONS
  - C0.3 SITE PLAN - 1 OF 3
  - C0.4 SITE PLAN - 2 OF 3
  - C0.5 SITE PLAN - 3 OF 3
  - C1.0 PLAN PROFILE STATION 0+000 to 1+500
  - C1.1 PLAN PROFILE STATION 1+500 to 3+000
  - C1.2 PLAN PROFILE STATION 3+000 to 4+500
  - C1.3 PLAN PROFILE STATION 4+500 to 6+000
  - C1.4 PLAN PROFILE STATION 6+000 to 7+500
  - C1.5 PLAN PROFILE STATION 7+500 to 9+000
  - C1.6 PLAN PROFILE STATION 9+000 to 10+500
  - C1.7 PLAN PROFILE STATION 10+500 to 12+000
  - C1.8 PLAN PROFILE STATION 12+000 to 13+500
  - C1.9 PLAN PROFILE STATION 13+500 to 15+000
  - C1.10 PLAN PROFILE STATION 15+000 to 16+500
  - C2.0 TYPICAL CROSS SECTION
  - C2.1 CROSS SECTION : STATION 0+000 to 1+200
  - C2.2 CROSS SECTION : STATION 1+200 to 2+400
  - C2.3 CROSS SECTION : STATION 2+400 to 3+600
  - C2.4 CROSS SECTION : STATION 3+600 to 4+800
  - C2.5 CROSS SECTION : STATION 4+800 to 6+000
  - C2.6 CROSS SECTION : STATION 6+000 to 7+200
  - C2.7 CROSS SECTION : STATION 7+200 to 8+400
  - C2.8 CROSS SECTION : STATION 8+400 to 9+600
  - C2.9 CROSS SECTION : STATION 9+600 to 10+800
  - C2.10 CROSS SECTION : STATION 10+800 to 12+000
  - C2.11 CROSS SECTION : STATION 12+000 to 13+200
  - C2.12 CROSS SECTION : STATION 13+200 to 14+400
  - C2.13 CROSS SECTION : STATION 14+400 to 15+600
  - C2.14 CROSS SECTION : STATION 15+600 to 16+100
  - C3.0 PROPOSED ROW : 1 OF 3
  - C3.1 PROPOSED ROW : 2 OF 3
  - C3.2 PROPOSED ROW : 3 OF 3



# M.D OF PINCHER CREEK MAYCROFT ROAD UPGRADES FOR PRELIMINARY APPROVAL

1770-031-00

PROPOSED	DESCRIPTION	EXISTING
	ALBERTA SURVEY CONTROL MONUMENT	● ASCM No.
	CONTROL POINT	● CP No.
	IRON PIN	○ IP
---	CONSTRUCTION EASEMENT	
	PROPERTY LINE	---
	UTILITY RIGHT OF WAY EASEMENT	---
	ABBREVIATION ELEVATION	DESC ELEV
○	BOLLARD/DELINEATOR POST	○
○	SIGN	○
⊕	BOREHOLE	⊕
☁	BUSH	☁
🌳	TREE	🌳
←←←←←	ASPHALT SWALE	←←←←←
≡≡≡≡≡	CONCRETE SWALE	≡≡≡≡≡
←←←←←	DRAINAGE DITCH	←←←←←
←←←←←	DRAINAGE SWALE	←←←←←
←←←←←	DRAINAGE SWALE BACKFILLED	←←←←←
.....	GRADE BREAK	.....
---	CENTRELINE	---
---	EDGE OF GRAVEL	---
---	EDGE OF PAVEMENT	---
≡≡≡≡≡	CURB AND GUTTER	≡≡≡≡≡
≡≡≡≡≡	MONOLITHIC SIDEWALK	≡≡≡≡≡
≡≡≡≡≡	SEPARATE SIDEWALK	≡≡≡≡≡
—x—x—x—	FENCE BARBED WIRE	—x—x—x—
—o—o—o—	FENCE CHAIN LINK	—o—o—o—
—□—□—□—	FENCE SILT	—□—□—□—
—x—x—x—	FENCE TO BE REMOVED	—x—x—x—
	RAILWAY	+++++

PROPOSED	DESCRIPTION	EXISTING
△ ET	ELECTRICAL TRANSFORMER	▲ ET
↓ GW	GUY WIRE	● GW
⌘ LS	LIGHT STANDARD	⌘ LS
△ PED	PEDESTAL	▲ PED
○ PP	POWER POLE	● PP
○ TS	TRAFFIC SIGNAL	⊙ TS
— C —	CABLE	— C —
— FO —	FIBRE OPTIC	— FO —
— G —	GAS LINE (NON-AER)	— G —
	GAS ABANDONED	/ G /
— OH —	OVERHEAD POWER	— OH —
— T —	TELECOMMUNICATION	— T —
— UG —	UNDERGROUND POWER	— UG —
	BUTTERFLY VALVE	⊕
	GATE VALVE	⊕
	HYDRANT	◆
X	CURB STOP	X
W 150	WATER MAIN	W 150
/ /	WATER MAIN ABANDONED	/ /
—○—	CLEANOUT	—○—
△	LANDSCAPE CATCH BASIN	▲
○	MANHOLE	●
⌘	PLUG VALVE	⌘
⊕	VAULT	⊕
—	CATCH BASIN	—
—x—x—	CULVERT	—x—x—
)	INLET STRUCTURE	)
—(	OUTFALL STRUCTURE	—(
S 200	SANITARY	S 200
/ S 200 /	SANITARY ABANDONED	/ S 200 /
ST 200	STORM	ST 200
/ ST 200 /	STORM ABANDONED	/ ST 200 /
TD 100	TILE DRAIN	TD 100

PROPOSED	DESCRIPTION	EXISTING
—	CULVERT ABANDONED	—x—x—
—	PAVEMENT MARKING	—
	ABANDONED WELLHEAD	⊕
	GAS WELLHEAD	☀
	OIL WELLHEAD	◆
	WATER WELLHEAD	⊕
	CRUDE OIL	— CO —
	NATURAL GAS	— NG —
	SOUR NATURAL GAS	— SG —
—	GROUND @ 10m LEFT	---
—	GROUND @ 10m RIGHT	---
—	GUARD RAIL	—
—	ROAD CENTRELINE	---

NOTES:  
1. ALL ELEVATIONS AND STATIONS IN METRES. PIPE LENGTHS, PIPE SIZES AND DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.

UTM 11 NAD 83  
COORDINATES

THE EXISTENCE, LOCATION AND ELEVATION OF ALL UTILITIES AS SHOWN ON ANY PLANS MAY BE BASED ON INFORMATION RECEIVED FROM THE RESPECTIVE AUTHORITIES AND ARE NOT GUARANTEED BY THE ENGINEER. NO RESPONSIBILITY IS IMPLIED OR ASSUMED BY THE ENGINEER AS TO THE LOCATION AND ELEVATION OR ANY OMISSIONS. THE CONTRACTOR OR ANY THIRD-PARTY IS RESPONSIBLE FOR DETERMINING THE EXISTENCE, LOCATION AND ELEVATION OF ALL SUCH UTILITIES AND MUST CONTACT THE VARIOUS UTILITY COMPANIES FOR ON SITE INFORMATION PRIOR TO COMMENCEMENT OF ANY OPERATIONS.

ISSUE	YY-MM-DD	REVISION
2	25-07-09	ISSUED PRELIMINARY DESIGN
1	25-05-22	FOR PRELIMINARY APPROVAL



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M.D OF PINCHER CREEK

MAYCROFT ROAD UPGRADES  
CIVIL  
LEGEND

DESIGNED	T.D.S, D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	NTS
DATE	JULY 2025	DRAWING	CO.1

ABANDONED	AB
ACRE	AC
AIR RELEASE MANHOLE	AR
AIR RELEASE VALVE	ARV
ALBERTA SURVEY CONTROL MONUMENT	ASCM
ASBESTOS CEMENT	AC
ASPHALTIC CONCRETE PAVEMENT	ACP
AT	@
AVENUE	AVE
BACK OF WALK	BOW
BEDDING	BED
BEGINNING OF CURVE	BC
BEGINNING OF VERTICAL CURVE	BVC
BELLxBELLxBELL	BxBxB
BELLxFLANGE	BxFL
BELLxSPIGOT	BxSP
BENCH MARK	BM
BLOCK	BLK
BOREHOLE	BH
BOTTOM	BTM
BOTTOM OF PIPE	BOP
BOUNDARY	BDY
BOULEVARD	BLVD
BUILDING	BLDG
CABLE	C
CANADIAN NATIONAL RAILWAY	CNR
CANADIAN PACIFIC RAILWAY	CPR
CANADIAN STANDARDS ASSOCIATION	CSA
CAPACITY	CAP
CAST IRON	CI
CATCH BASIN	CB
CATHODIC PROTECTION	CP
CENTRE LINE	CL
CERTIFICATE OF TITLE	C OF T
CHAIN LINK FENCE	CLF
CHECK DROP	CD
CHECK VALVE IN MANHOLE	CVM
CLASS	CL
CLEAN OUT	CO
COMMUNITY RESERVE	COMM RES
COMPLETE WITH	C/W
CONCRETE	CONC
CONDUIT	COND
CORRUGATED	C
CORRUGATED METAL PIPE	CMP
CORRUGATED STEEL PIPE	CSP
COUPLING	CPLG
CREEK	CRK
CRESCENT	CRES
CROSSFALL	X-FALL
CROSS DRAIN	C-D
CROSS SECTION	X-SEC
CUBIC METRE PER SECOND	m <sup>3</sup> /s
CULVERT	CULV
CURB AND GUTTER	C&G
CURB STOP	CS
CURED IN PLACE PIPE	CIPP
CURVE TO SPIRAL	CS

PVC AND HDPE PIPE HAZEN WILLIAMS ROUGHNESS COEFFICIENT  
 100Ø - 450Ø C=140  
 500Ø - 1500Ø C=145

OVERLAND STORM WATER FLOW FORMULA ABBREVIATIONS

DEPTH OF FLOW IN 1 IN 5 YEAR STORM EVENT	D <sub>1:5</sub>
DEPTH OF FLOW IN 1 IN 100 YEAR STORM EVENT	D <sub>1:100</sub>

DEGREE	°
DELTA	Δ
DIAMETER	Ø
DIMENSION RATIO	DR
DOMESTIC TURNOUT	DTO
DRAINOUT	DO
DRAIN INLET	DI
DRAWING	DWG
DRIVEWAY	DWY
DUCTILE IRON	DI
DWELLING	DWLG
EAST	E
EDGE OF GRAVEL	EOG
EDGE OF PAVEMENT	EOP
EDGE OF ROAD	EOR
ELECTRICAL TRANSFORMER	ET
ELEVATION	ELEV
ENCASEMENT	ENC
END OF CURVE	EC
END OF VERTICAL CURVE	EVC
ENGINEER	ENG
ENVIRONMENTAL CONSTRUCTION OPERATIONS	ECO
ENVIRONMENTAL RESERVE	ER
EXTERIOR DROP	EXT DROP
EXISTING GROUND	EG
FACE OF CURB	FOC
FACE OF WALK	FOW
FARM CROSSING	FC
FARM TURNOUT	FTO
FIBRE OPTIC	FO
FINISHED GRADE	FG
FINISHED LANDSCAPE GRADE	FLG
FLANGE	FLG
FLAPPER GATE	FP
FLOOD PLAIN	FLD PLN
FLOOD WAY	FLD WY
FLOOR	FLR
FLOW RATE	Q
FOOTING	FTG
FORCE MAIN	FM
FULL SUPPLY LEVEL	FSL
GALVANIZED	GALV
GALVANIZED IRON	GI
GAS	G
GUY WIRE	GW
HECTARE	ha
HEIGHT	H
HIGH DENSITY POLYETHYLENE	HDPE
HIGH POINT	HP
HIGH WATER LEVEL	HWL
HIGHWAY	HWY
HORIZONTAL	HOR OR H
HORIZONTAL DIRECTIONAL DRILL	HDD
HOSPITAL	HOSP
HYDRANT	HYD
HYDRAULIC GRADE LINE	HGL
INLET CHAMBER	IC
INLET CONTROL DEVICE	ICD
INLET/OUTLET STRUCTURE (DRY POND)	I/O
INSIDE DIAMETER	ID
INTERSECTION	INT
INVERT	INV
IRON PIN	IP

FLOW RATE FOR A 1 IN 5 YEAR STORM EVENT	Q <sub>1:5</sub>
FLOW RATE FOR A 1 IN 100 YEAR STORM EVENT	Q <sub>1:100</sub>

KILOGRAM	kg
KILOMETRES	km
KILOMETRES PER HOUR	km/h
RATE OF CURVATURE	K
LANDSCAPE CATCH BASIN	LSCB
LATERAL TURNOUT	LTO
LENGTH	L
LENGTH OF CURVE	LC
LENGTH OF VERTICAL CURVE	LVC
LIFT STATION	LS
LIGHT STANDARD	LS
LIP OF GUTTER	LG
LIP OF GUTTER RADIUS	LGR
LONG RADIUS	LR
LONG TANGENT	LT
LOW POINT	LP
LOW PROFILE CURB AND GUTTER	LPC&G
MANHOLE	MH
MANHOLE CATCH BASIN	MHCB
MAXIMUM	MAX
MEDIAN	MED
METRE	m
METRES PER SECOND	m/s
METER CHAMBER	MC
MIDDLE ORDINATE DISTANCE (VERTICAL SEPARATION FROM PI)	M
MILLIMETRE	mm
MINIMUM	MIN
MINUTES	'
MONITORING WELL	MW
MONOLITHIC SIDEWALK	MONO
MUNICIPAL RESERVE	MR
NORMAL WATER LEVER	NWL
NORTH	N
NORTH EAST	NE
NORTH WEST	NW
NOT TO SCALE	NTS
NUMBER	No.
ON CENTRE	OC
OPTIMUM MOISTURE	OM
OUTLET CHAMBER	OC
OUTSIDE DIAMETER	OD
OVERHEAD POWER	OH
PEDESTAL	PED
PER	/
PERCENT	%
PIEZOMETER	PZ
PIPELINE TURNOUT	TO
POINT OF INTERSECTION	PI
POLYETHYLENE	PE
POLYVINYL CHLORIDE	PVC
POWER POLE	PP
POUNDS PER SQUARE INCH	PSI
PRESSURE REDUCING MANHOLE	PRVM
PROPERTY LINE	PL
PULL BOX	PB
PUMPOUT	PO
PUMP STATION	PS

VELOCITY FOR A 1 IN 5 YEAR STORM EVENT	V <sub>1:5</sub>
VELOCITY FOR A 1 IN 100 YEAR STORM EVENT	V <sub>1:100</sub>

RADIUS	R
RANGE	RGE
RAW WATER	RW
REDUCER	RED
REGISTERED PLAN	REG'D PL
REINFORCED	RE
REINFORCED CONCRETE	RC
RELOCATION	RELO
REMOVE	R
RESERVOIR	RES
RIGHT OF WAY	ROW
ROAD	RD
ROAD CROSSING	RC
ROLLED CURB AND GUTTER	RCG
RUBBER GASKET	RG
SANITARY	S
SECOND	"
SHOULDER	SHLD
SLOPE	S
SOUTH	S
SOUTH EAST	SE
SOUTH WEST	SW
SPIRAL TO CURVE	SC
SPIRAL TO TANGENT	ST
SQUARED	SQ
STANDARD	STD
STANDARD PROCTOR DENSITY	SPD
STAINLESS STEEL	SST
STATION	STA
STEEL	ST
STREET	ST
STORM	ST
STORMWATER MANAGEMENT FACILITY	SWMF
TANGENT	TAN
TANGENT TO SPIRAL	TS
TAPPING VALVE	TV
TELECOMMUNICATION	T
THRUST BLOCK	TB
TILE DRAIN	TD
TOP OF ASPHALT	TOA
TOP OF CURB	TOC
TOP OF DAM	TOD
TOP OF PIPE	TOP
TOP OF RAIL	TOR
TOWNSHIP	TWP
TRAFFIC SIGNAL	TS
TYPICAL	TYP
UNDERGROUND POWER	UG
UTILITY RIGHT OF WAY	URW
VALVE	V
VALVE CHAMBER	VC
VELOCITY	VEL
VERTICAL	VER OR V
VERTICAL BEND DOWN	VBD
VERTICAL BEND UP	VBU
VERTICAL CURVE	VC
VERTICAL POINT OF INTERSECTION	VPI
VITRIFIED CLAY TILE	VCT
WATER	W
WATER VALVE	WV
WEST	W
WEEPING TILE DRAIN	WTD
WHEEL CHAIR RAMP	WCR
WIDTH	W

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**M.D OF PINCHER CREEK**

**MAYCROFT ROAD UPGRADES  
CIVIL  
ABBREVIATIONS**

DESIGNED	T.D.S , D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	NTS
DATE	JULY 2025	DRAWING	C0.2

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- NOTES:**
- FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.
  - CONTRACTOR TO EXPOSE EXISTING UTILITY LINES BY HYDROVAC EXCAVATION AND CONFIRM ELEVATIONS WHERE CROSSINGS ARE LOCATED IN A EXCAVATION ZONE.

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**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
**CIVIL**  
**SITE PLAN - 1 OF 3**

DESIGNED	T.D.S, D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	1:15 000
DATE	JULY 2025	DRAWING	CO.3



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  2. CONTRACTOR TO EXPOSE EXISTING UTILITY LINES BY HYDROVAC EXCAVATION AND CONFIRM ELEVATIONS WHERE CROSSINGS ARE LOCATED IN A EXCAVATION ZONE.

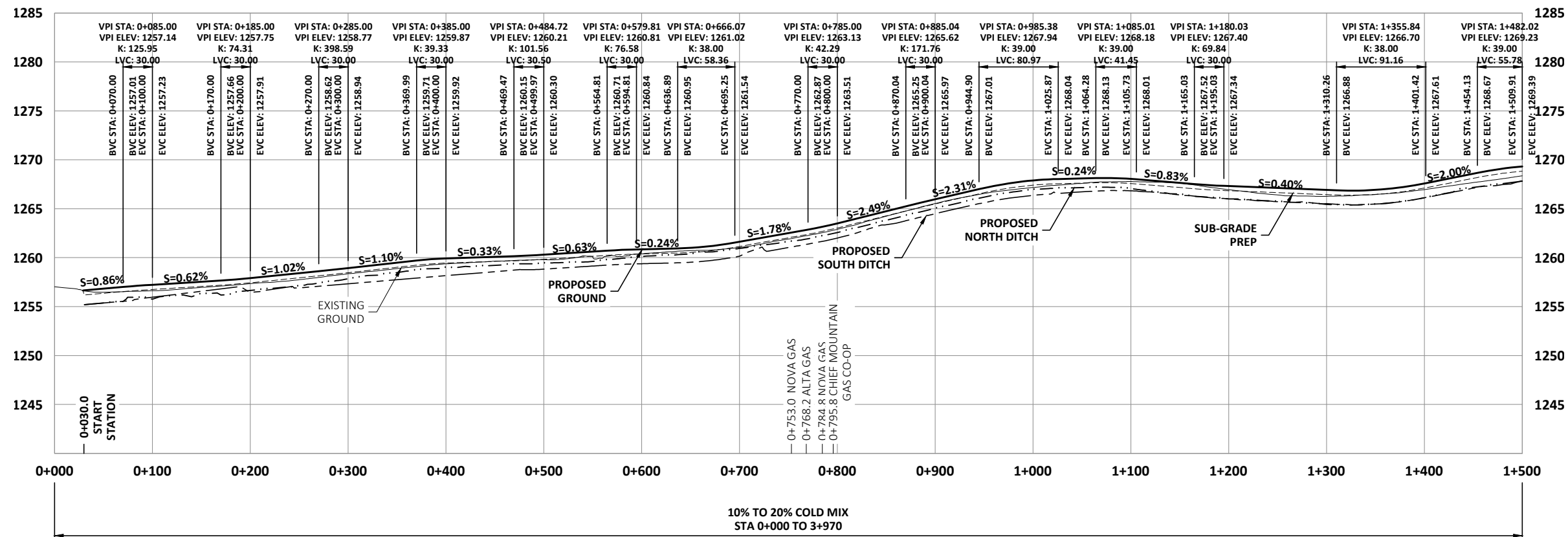
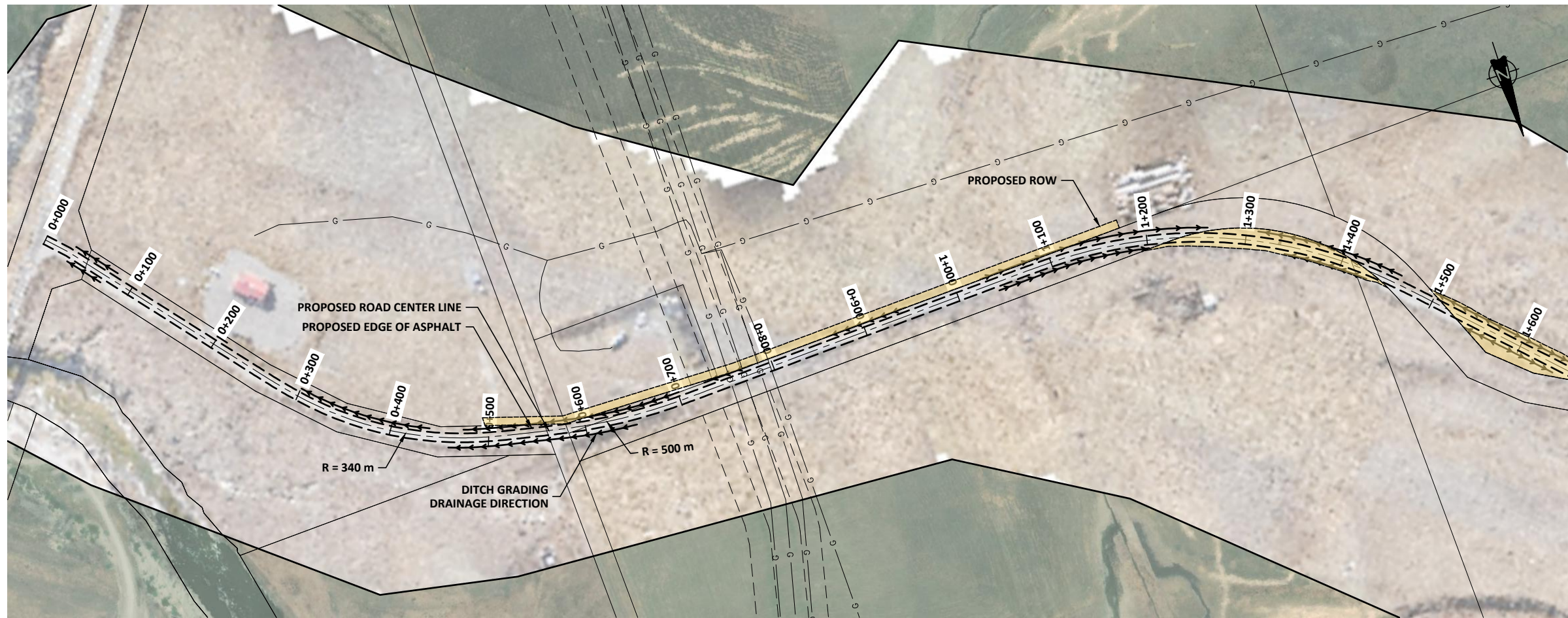
ISSUE	YY-MM-DD	REVISION
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**M.D OF PINCHER CREEK**

**MAYCROFT ROAD UPGRADES**  
**CIVIL**  
**SITE PLAN - 3 OF 3**

DESIGNED	T.D.S, D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	1:15 000
DATE	JULY 2025	DRAWING	C0.5



- NOTES:
- FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.
  - LAND AREA REQUIRED FOR PROPOSED ROW:
    - STA 0+500 TO 1+175 = 1.41 ACRE (0.57 Ha)
    - STA 1+194 TO 1+454 = 0.94 ACRE (0.38 Ha)
    - STA 1+495 TO 1+780 = 1.16 ACRE (0.47 Ha)

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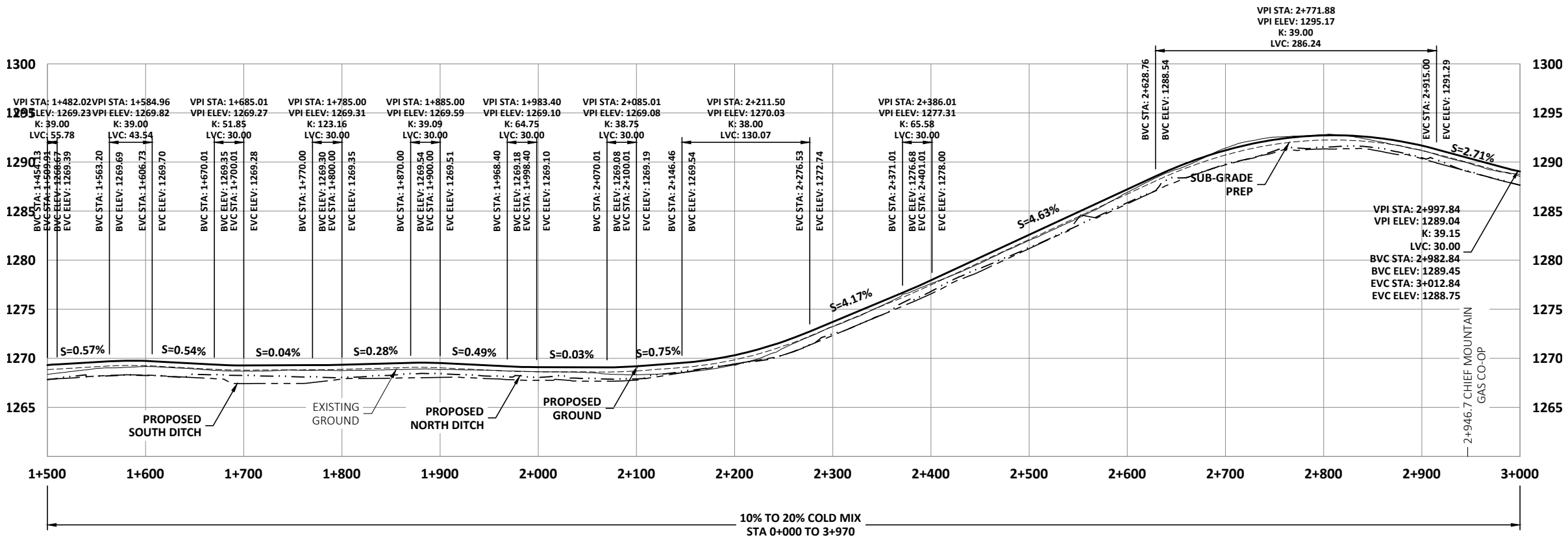
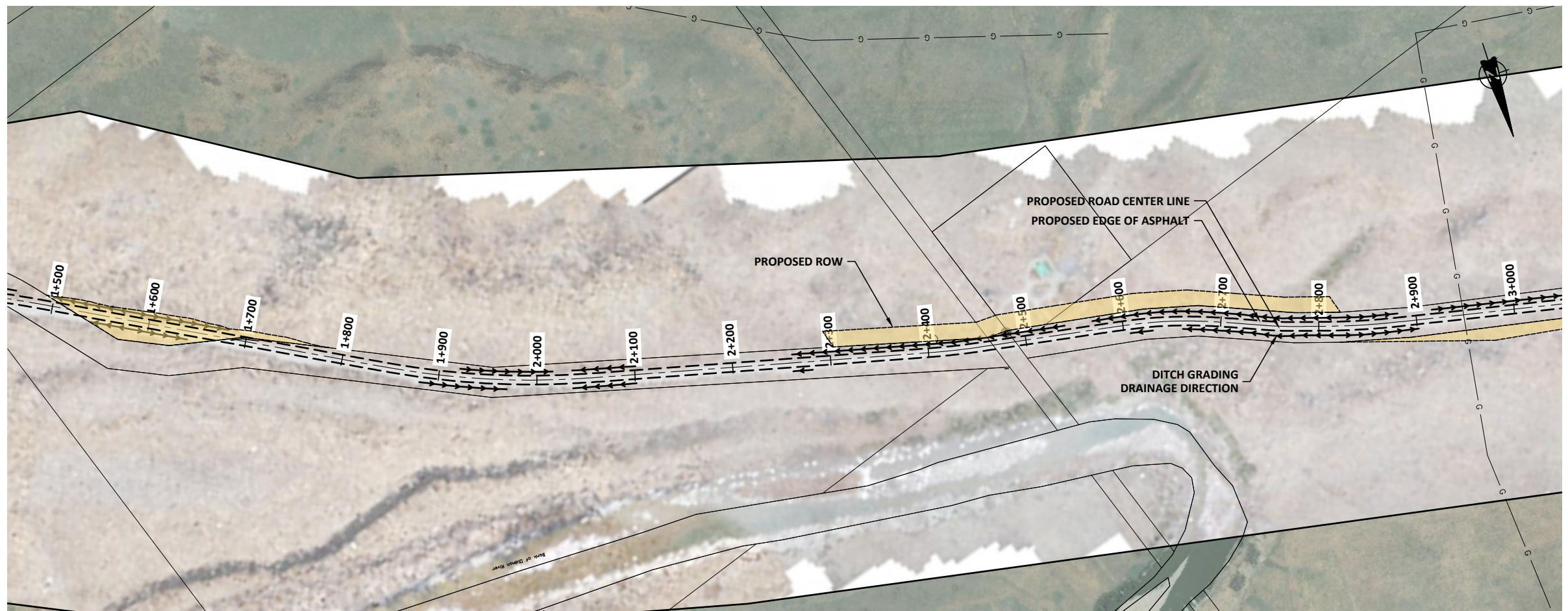
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**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
 CIVIL  
 PLAN AND PROFILE - STA 0+000 TO 1+500

DESIGNED	T.D.S., D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:5000, V 1:500
DATE	JULY 2025	DRAWING	C1.0

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  - LAND AREA REQUIRED FOR PROPOSED ROW:
    - STA 1+495 TO 1+780 = 1.16 ACRE (0.47 Ha)
    - STA 2+292 TO 2+822 = 2.12 ACRE (0.86 Ha)
    - STA 2+820 TO 3+440 = 0.82 ACRE (0.33 Ha)

2	25-07-09	ISSUED PRELIMINARY DESIGN
1	25-05-22	FOR PRELIMINARY APPROVAL
ISSUE	YY-MM-DD	REVISION

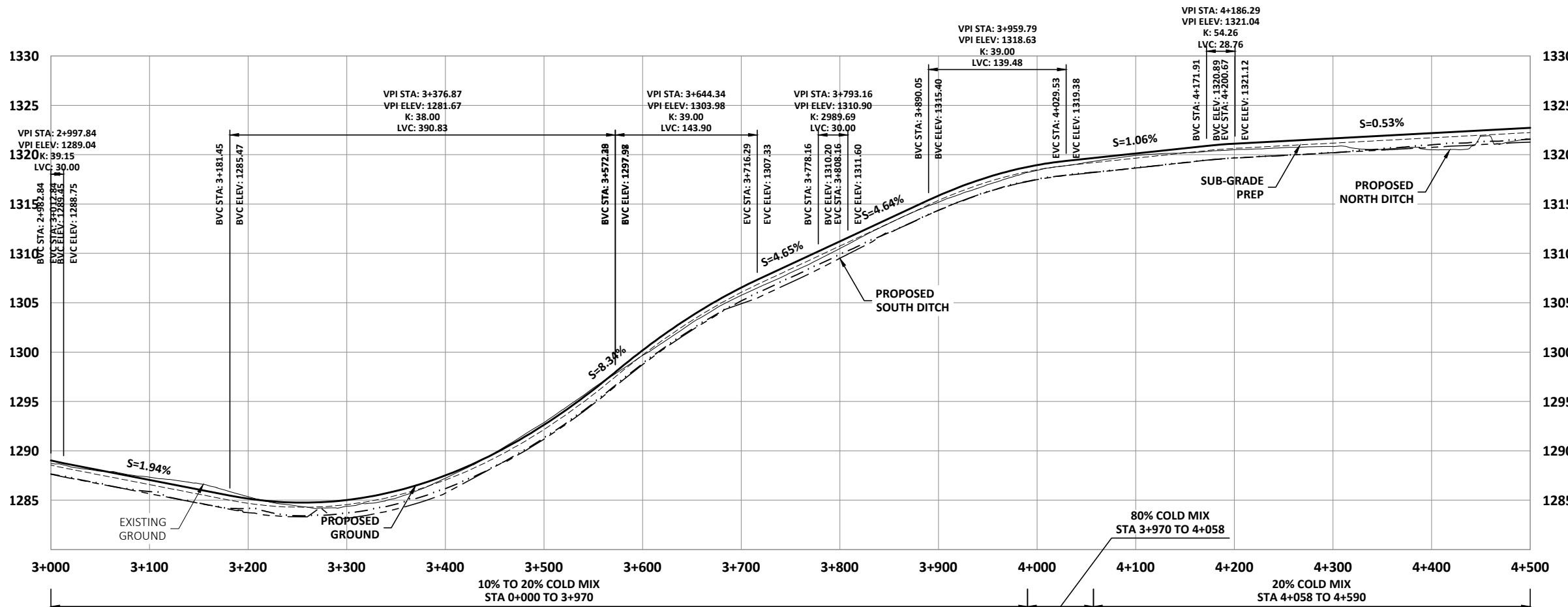
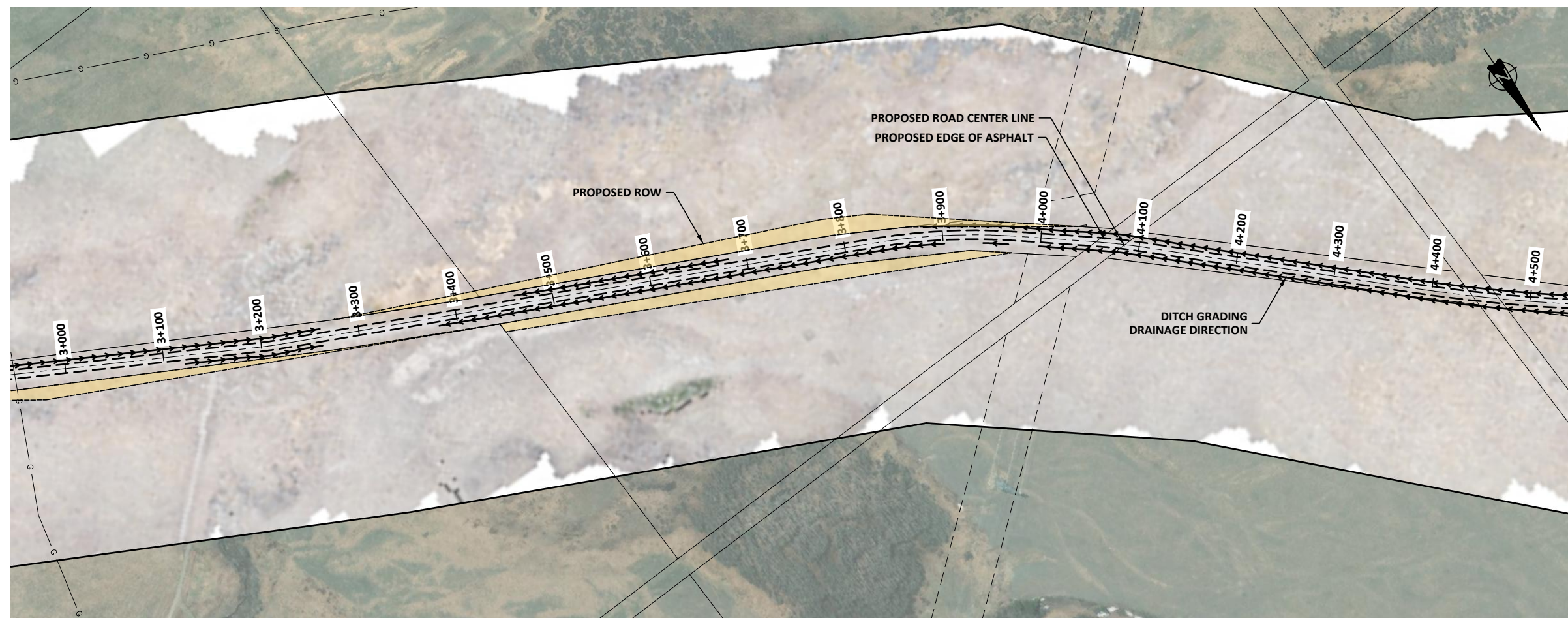


**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
**CIVIL**  
**PLAN AND PROFILE - STA 1+500 TO 3+000**

DESIGNED	T.D.S., D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:5000, V 1:500
DATE	JULY 2025	DRAWING	C1.1

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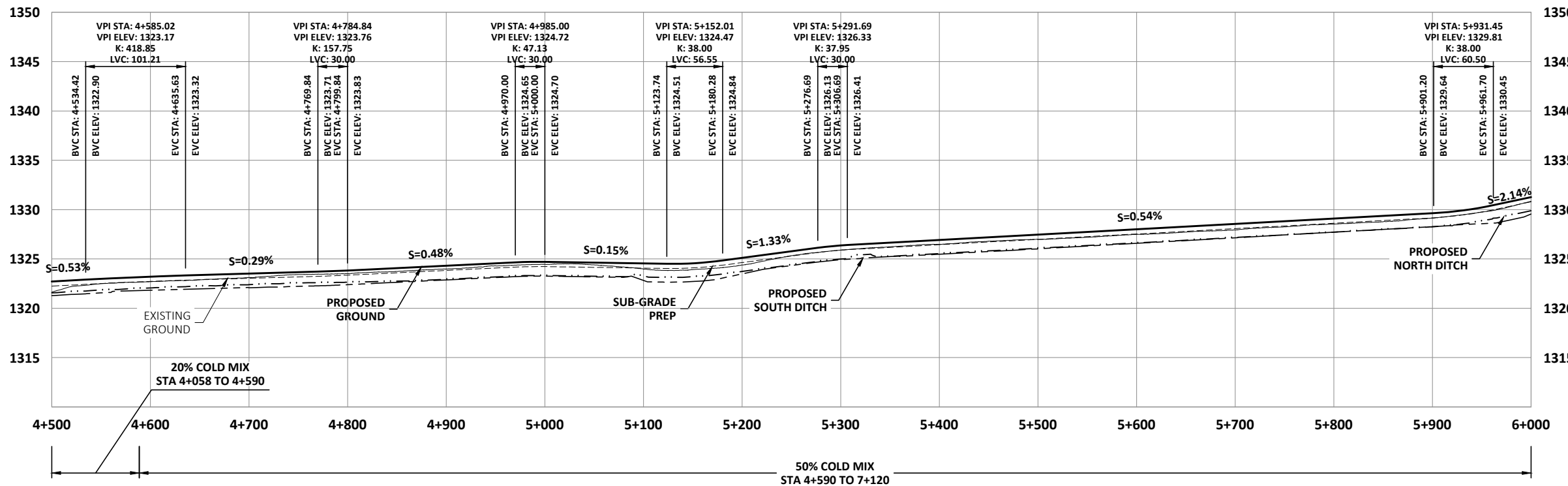
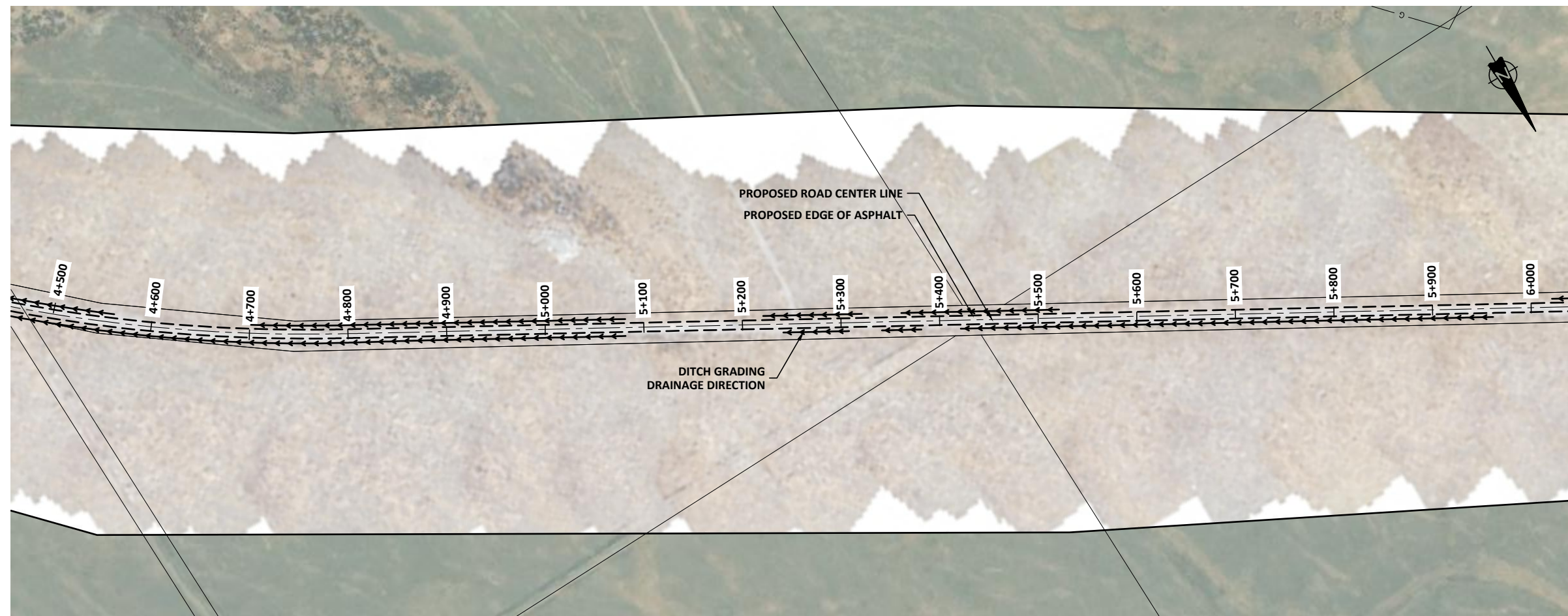
- NOTES:
- FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.
  - LAND AREA REQUIRED FOR PROPOSED ROW:
    - STA 2+820 TO 3+440 = 0.82 ACRE (0.33 Ha)
    - STA 3+440 TO 3+970 = 1.45 ACRE (0.59 Ha)
    - STA 3+276 TO 4+043 = 1.78 ACRE (0.72 Ha)

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1	25-05-22	FOR PRELIMINARY APPROVAL



**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
**CIVIL**  
**PLAN AND PROFILE - STA 3+000 TO 4+500**

DESIGNED	T.D.S., D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:5000, V 1:500
DATE	JULY 2025	DRAWING	C1.2



NOTES:  
 1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.

2	25-07-09	ISSUED PRELIMINARY DESIGN
1	25-05-22	FOR PRELIMINARY APPROVAL
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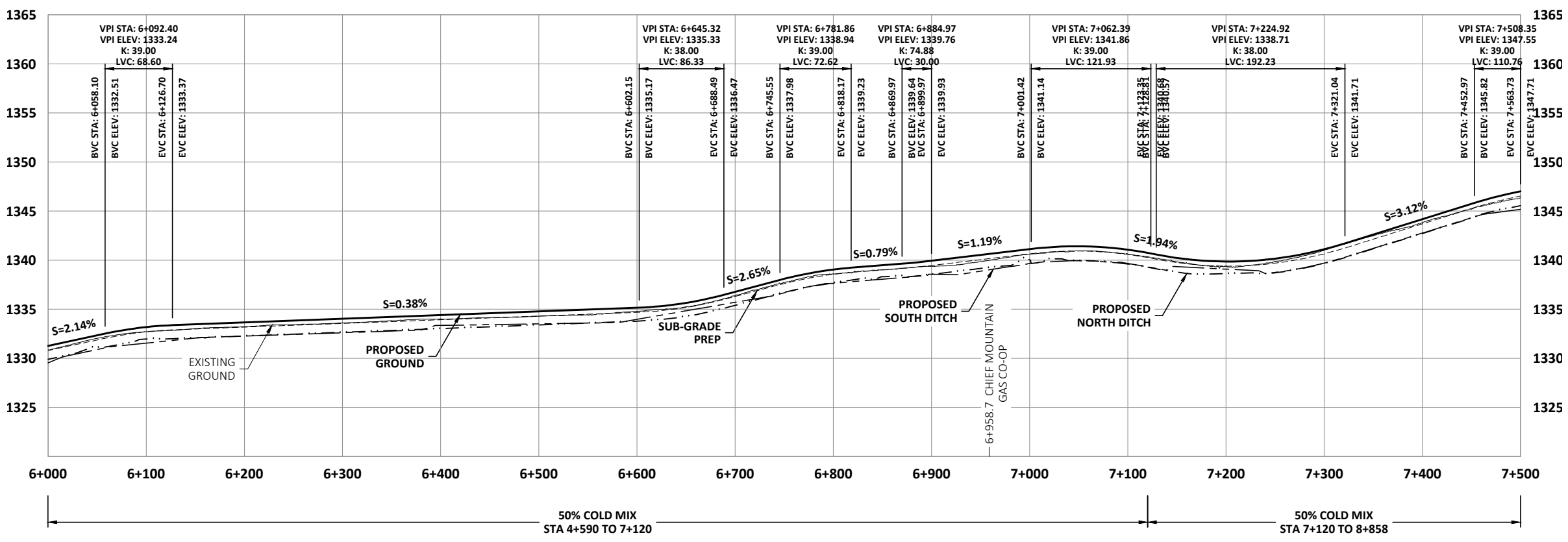
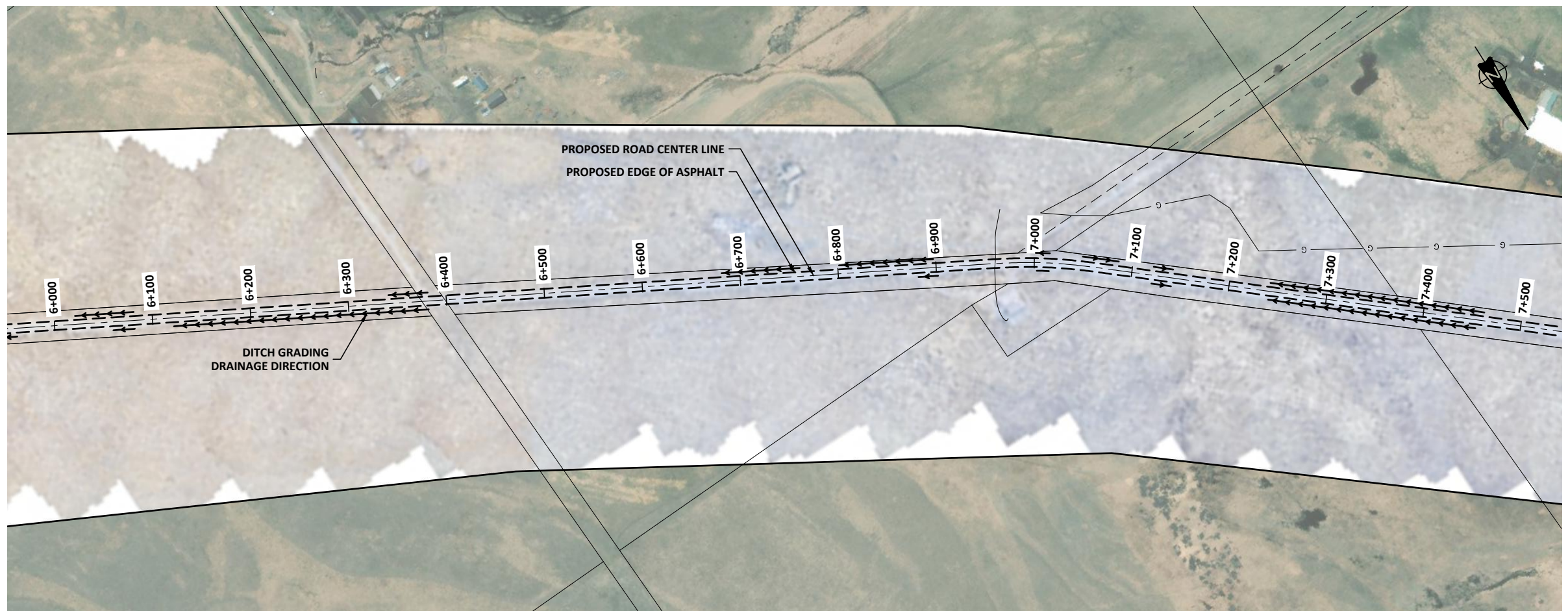


**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
 CIVIL  
 PLAN AND PROFILE - STA 4+500 TO 6+000

DESIGNED	T.D.S., D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:5000, V 1:500
DATE	JULY 2025	DRAWING	C1.3

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NOTES:  
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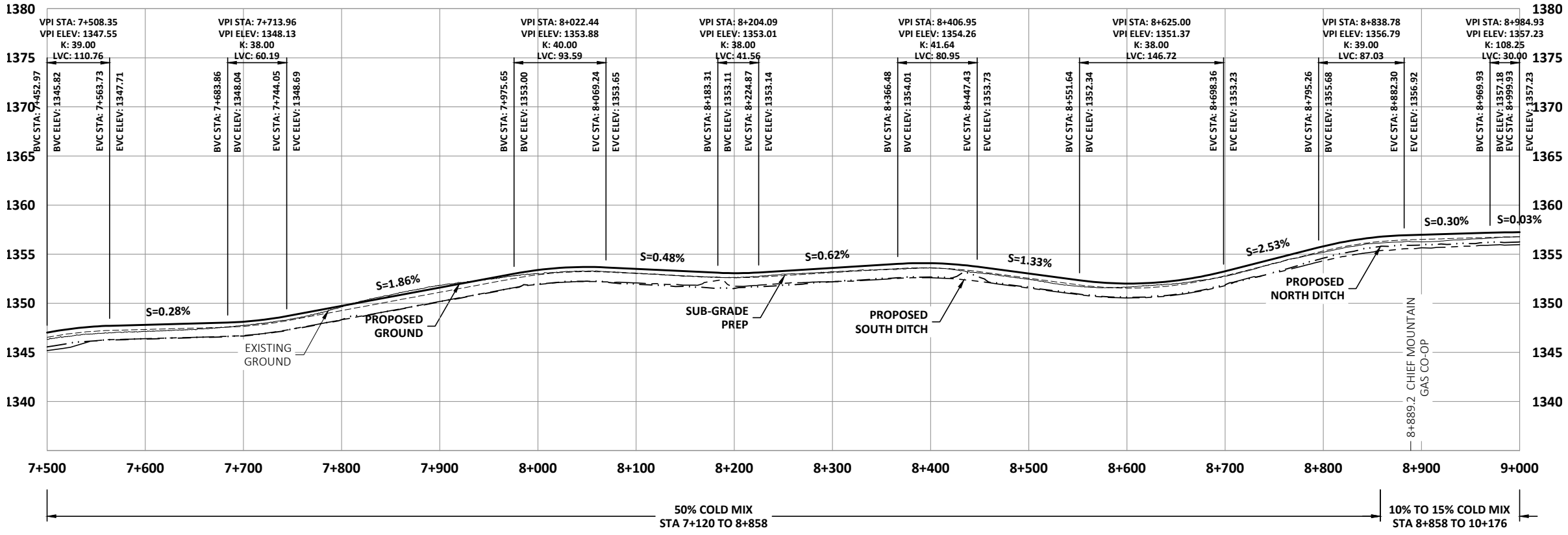
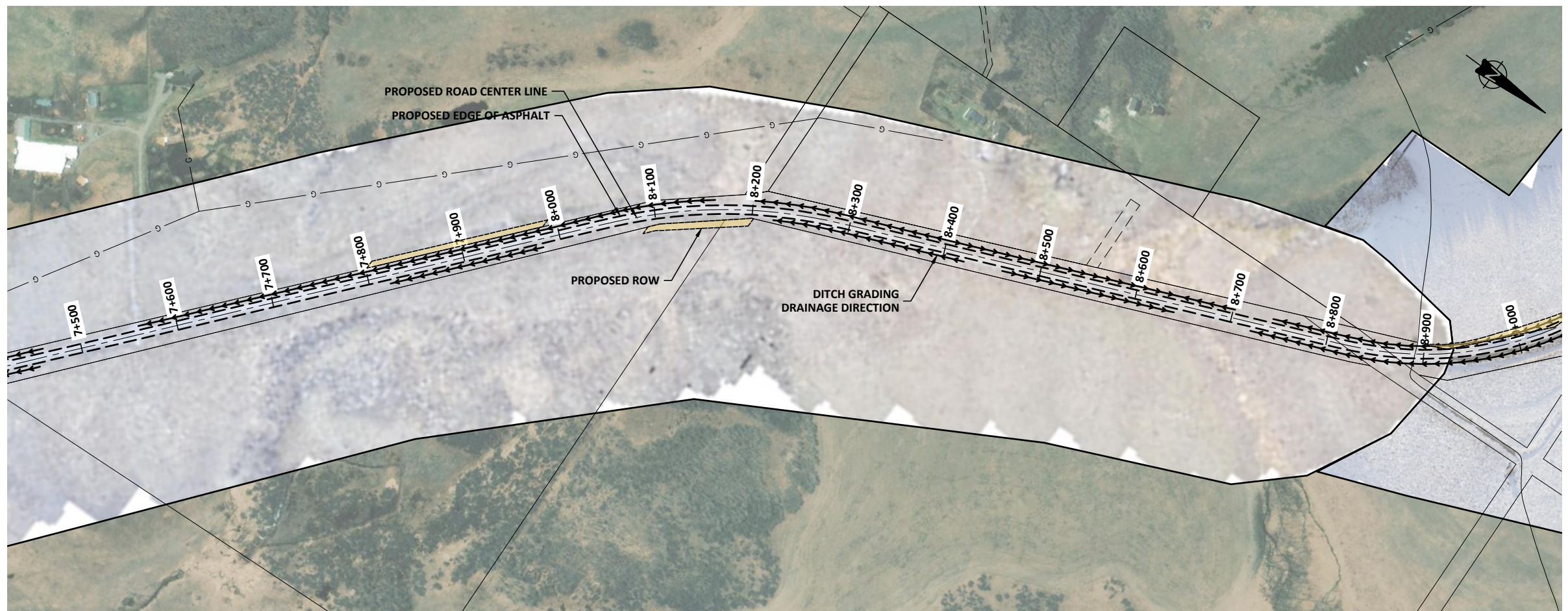


**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
 CIVIL  
 PLAN AND PROFILE - STA 6+000 TO 7+500

DESIGNED	T.D.S., D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:5000, V 1:500
DATE	JULY 2025	DRAWING	C1.4

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- FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.
  - LAND AREA REQUIRED FOR PROPOSED ROW:
    - STA 7+797 TO 7+990 = 0.26 ACRE (0.11 Ha)
    - STA 8+083 TO 8+200 = 0.19 ACRE (0.08 Ha)
    - STA 8+900 TO 9+186 = 0.30 ACRE (0.12 Ha)

2	25-07-09	ISSUED PRELIMINARY DESIGN
1	25-05-22	FOR PRELIMINARY APPROVAL
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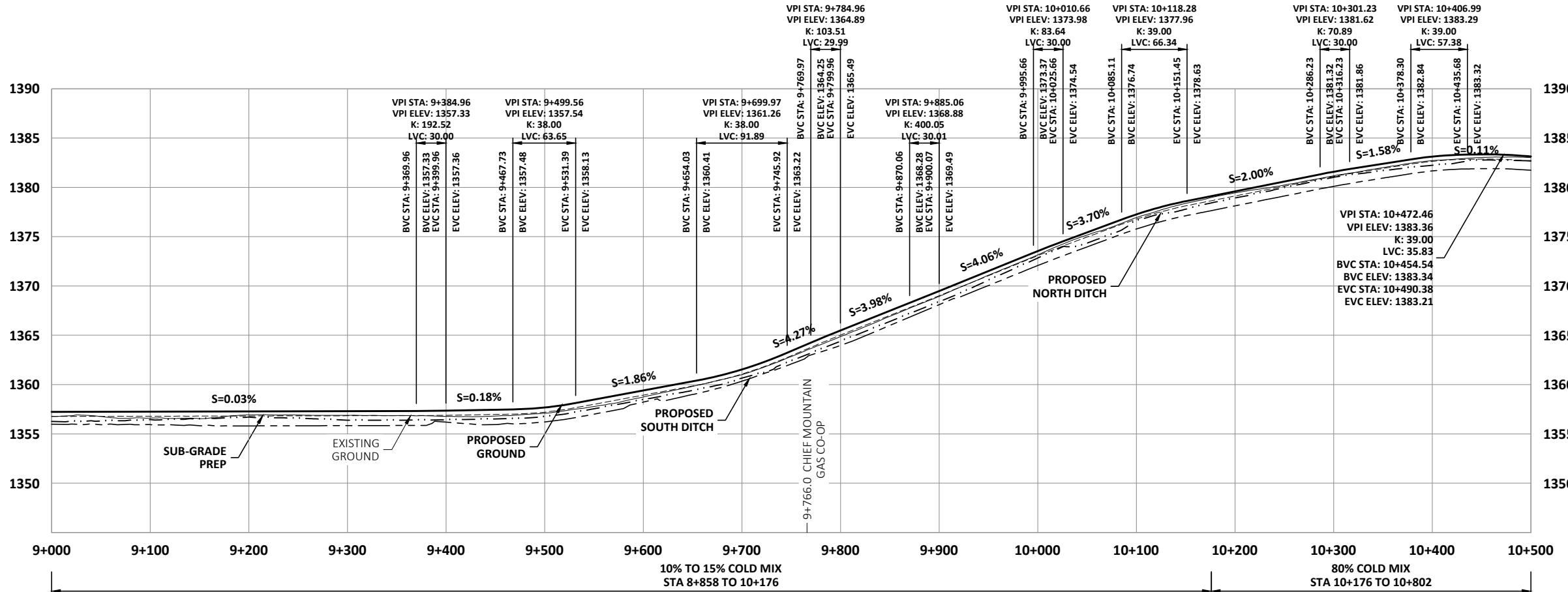
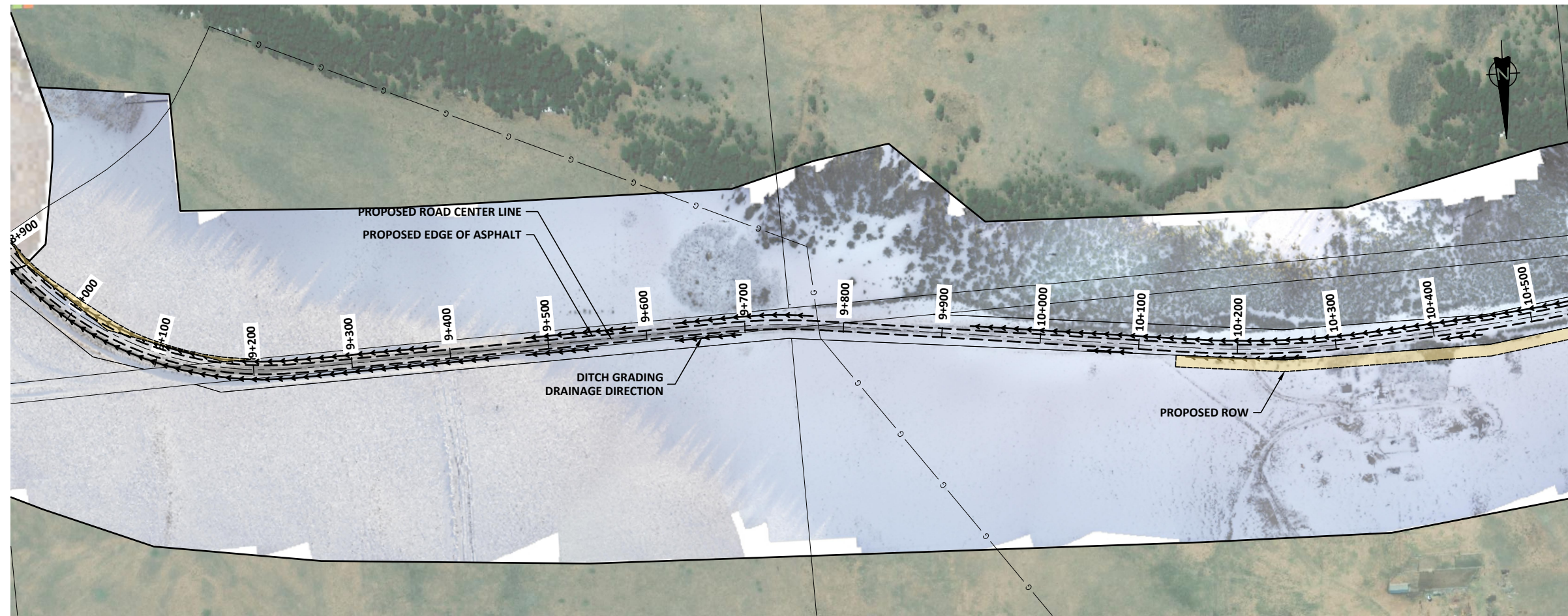


**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
**CIVIL**  
**PLAN AND PROFILE - STA 7+500 TO 9+000**

DESIGNED	T.D.S., D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:5000, V 1:500
DATE	JULY 2025	DRAWING	C1.5

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- FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.
  - LAND AREA REQUIRED FOR PROPOSED ROW:
    - STA 8+900 TO 9+186 = 0.30 ACRE (0.12 Ha)
    - STA 10+130 TO 10+544 = 1.23 ACRE (0.50 Ha)
    - STA 10+654 TO 11+330 = 4.79 ACRE (1.94 Ha)

ISSUE	YY-MM-DD	REVISION
2	25-07-09	ISSUED PRELIMINARY DESIGN
1	25-05-22	FOR PRELIMINARY APPROVAL

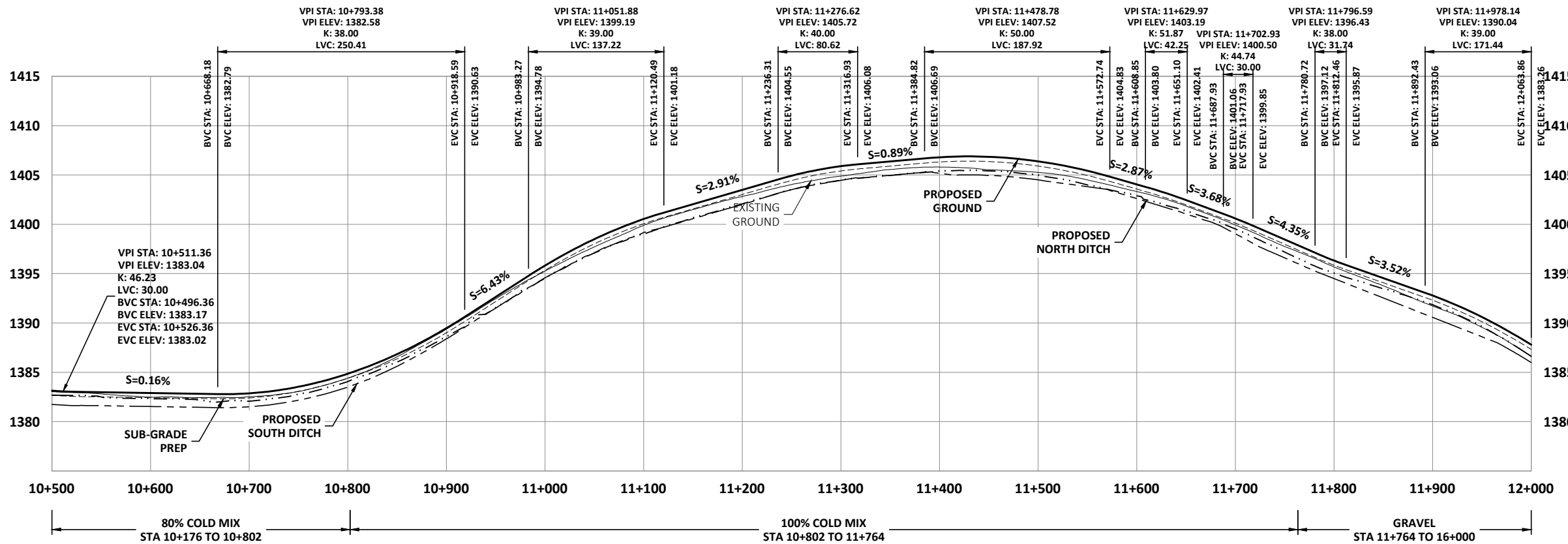
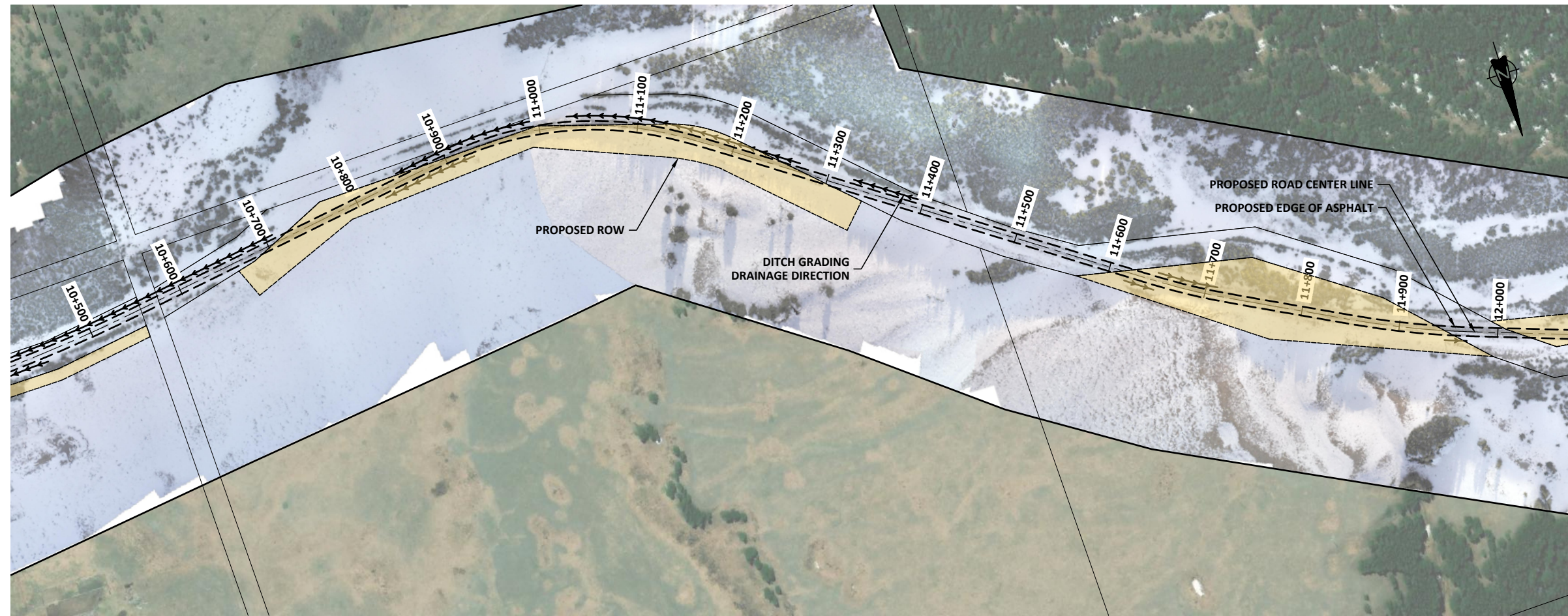


**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
**CIVIL**  
**PLAN AND PROFILE - STA 9+000 TO 10+500**

DESIGNED	T.D.S., D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:5000 V 1:500
DATE	JULY 2025	DRAWING	C1.6

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- NOTES:
- FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.
  - LAND AREA REQUIRED FOR PROPOSED ROW:
    - STA 10+654 TO 11+330 = 4.79 ACRE (1.94 Ha)
    - STA 11+561 TO 11+987 = 4.57 ACRE (1.85 Ha)
    - STA 11+986 TO 12+269 = 2.24 ACRE (0.90 Ha)

2	25-07-09	ISSUED PRELIMINARY DESIGN
1	25-05-22	FOR PRELIMINARY APPROVAL
ISSUE	YY-MM-DD	REVISION

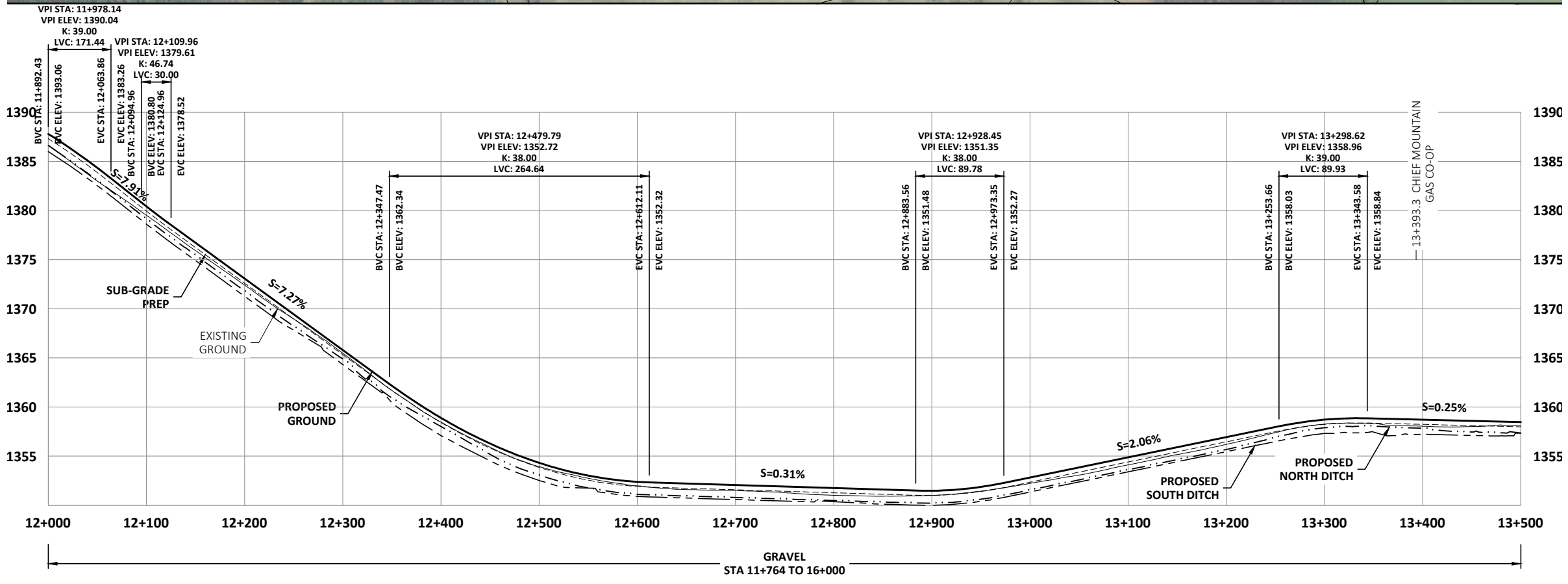
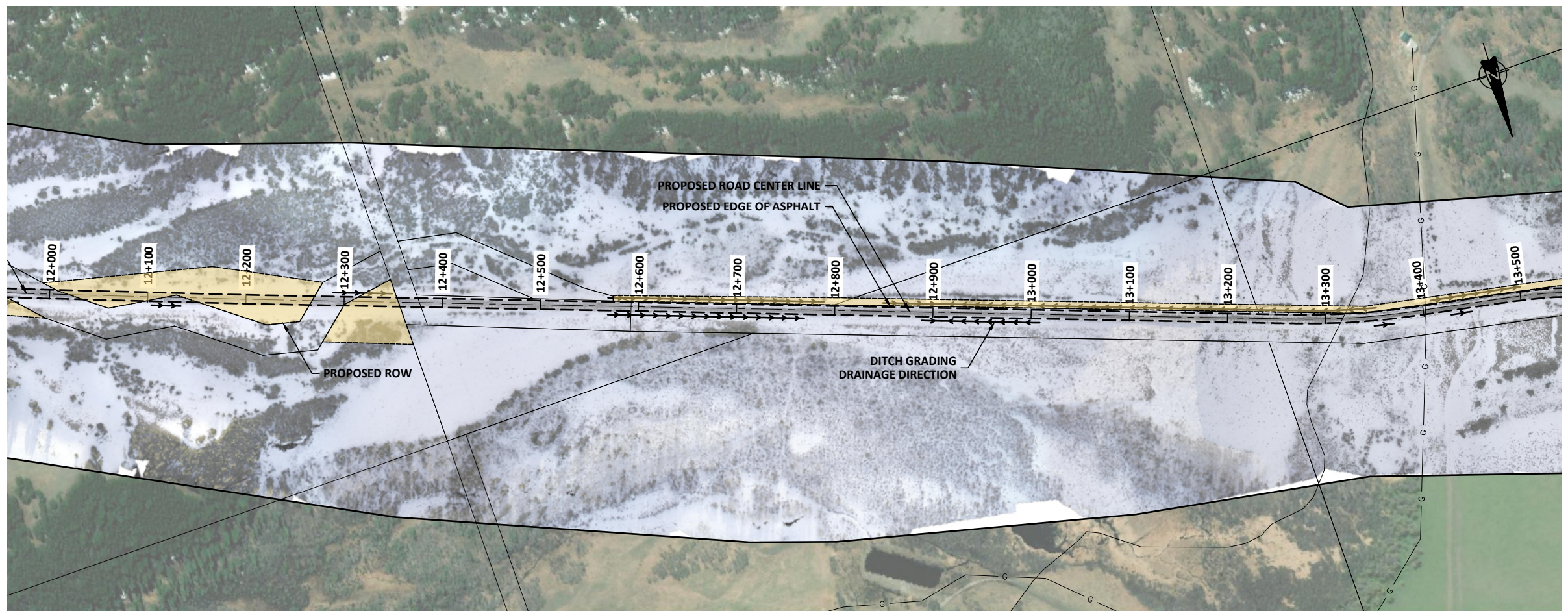


**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
**CIVIL**  
**PLAN AND PROFILE - STA 10+500 TO 12+000**

DESIGNED	T.D.S., D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	
DATE	JULY 2025	DRAWING	C1.7

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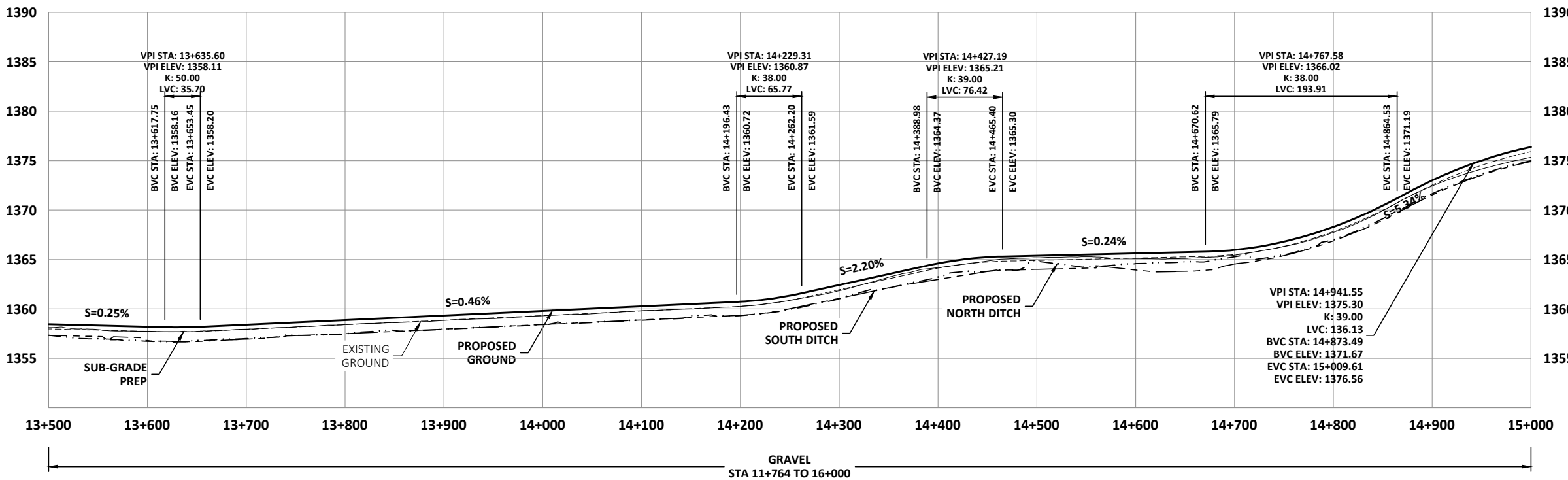
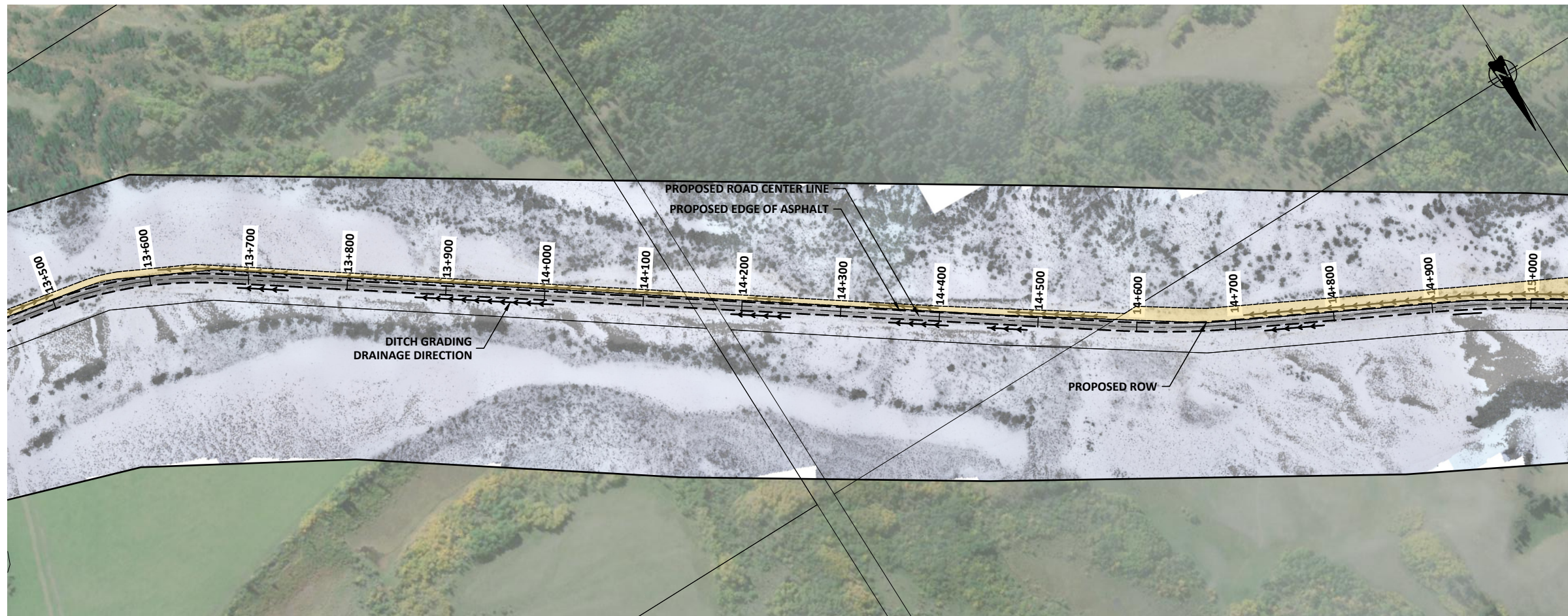
- NOTES:
- FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.
  - LAND AREA REQUIRED FOR PROPOSED ROW:
    - STA 11+986 TO 12+269 = 2.24 ACRE (0.90 Ha)
    - STA 12+270 TO 12+362 = 0.90 ACRE (0.36 Ha)
    - STA 12+565 TO 15+901 = 8.36 ACRE (3.38 Ha)

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1	25-05-22	FOR PRELIMINARY APPROVAL



**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
**CIVIL**  
**PLAN AND PROFILE - STA 12+000 TO 13+500**

DESIGNED	T.D.S, D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:5000 V 1:500
DATE	JULY 2025	DRAWING	C1.8



- NOTES:
- FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.
  - LAND AREA REQUIRED FOR PROPOSED ROW:
    - STA 12+565 TO 15+901 = 8.36 ACRE (3.38 Ha)

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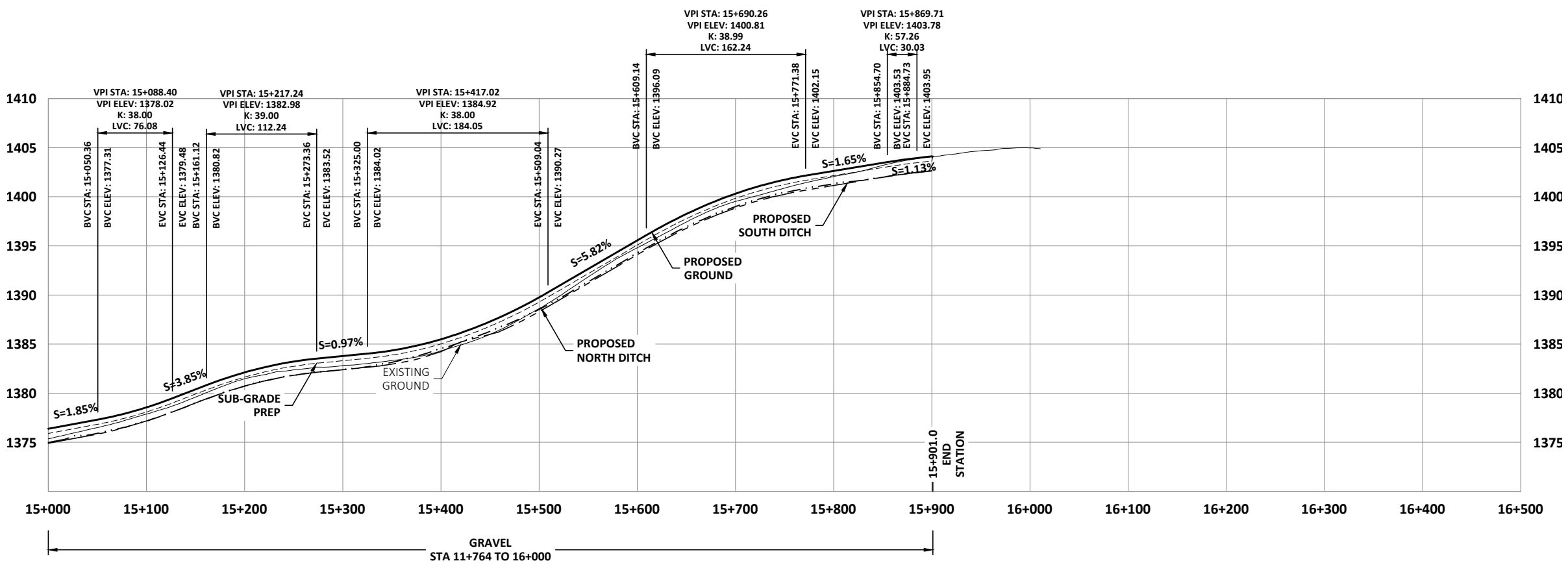
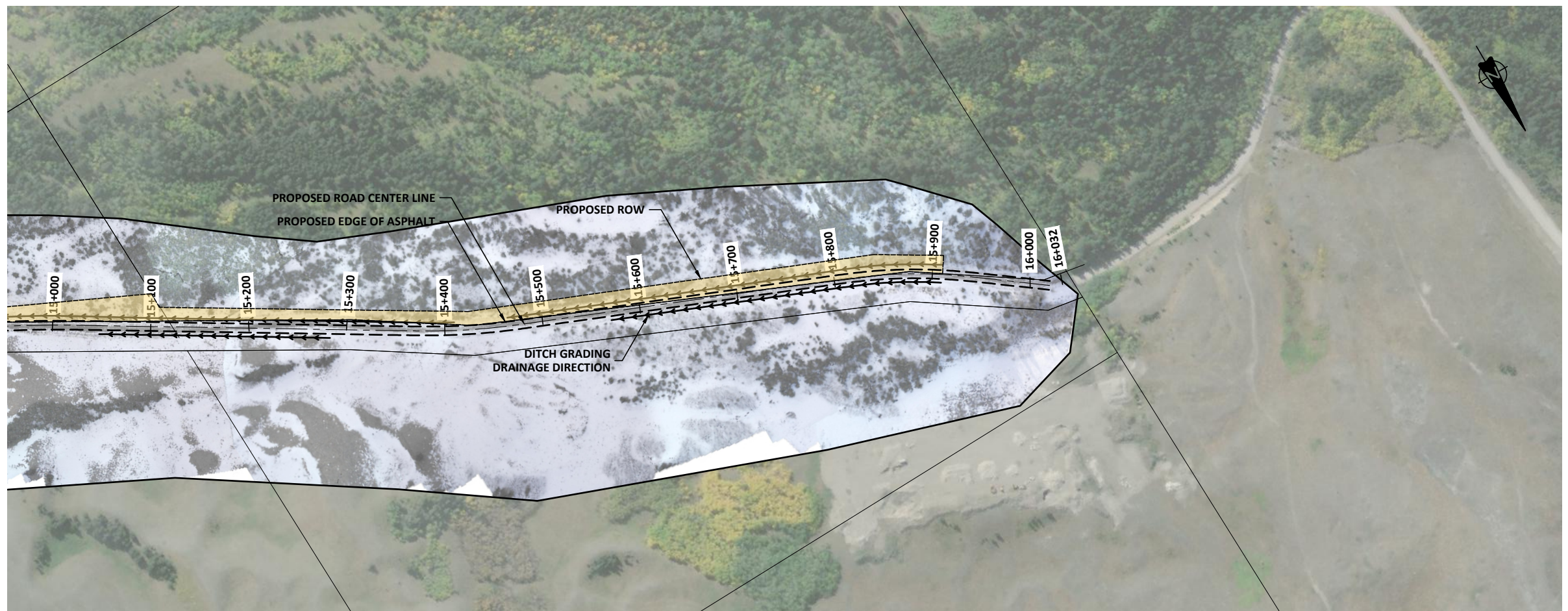


**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
 CIVIL  
 PLAN AND PROFILE - STA 13+500 TO 15+000

DESIGNED	T.D.S., D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:5000 V 1:500
DATE	JULY 2025	DRAWING	C1.9

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- FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.
  - TOTAL PRIVATE LAND AREA REQUIRED FOR PROPOSED ROW:
    - STA 0+500 TO 1+175 = 1.41 ACRE ( 0.57 Ha)
    - STA 2+292 TO 2+822 = 2.12 ACRE ( 0.86 Ha)
    - STA 2+820 TO 3+440 = 0.82 ACRE ( 0.33 Ha)
    - STA 3+440 TO 3+970 = 1.45 ACRE ( 0.59 Ha)
    - STA 3+276 TO 4+043 = 1.78 ACRE ( 0.72 Ha)
    - STA 7+797 TO 7+990 = 0.26 ACRE ( 0.11 Ha)
    - STA 8+083 TO 8+200 = 0.19 ACRE ( 0.08 Ha)
    - STA 8+900 TO 9+186 = 0.30 ACRE ( 0.12 Ha)
    - STA 12+565 TO 14+140 = 2.47 ACRE ( 0.99 Ha)
    - STA 14+587 TO 15+112 = 2.14 ACRE ( 0.86 Ha)

TOTAL = 12.94 ACRE ( 5.23 Ha)
  - PUBLIC (AB GOVERNMENT) OWNED LAND AREA REQUIRED FOR PROPOSED ROW:
    - STA 10+654 TO 11+330 = 4.79 ACRE ( 1.94 Ha)
    - STA 11+561 TO 11+987 = 4.57 ACRE ( 1.85 Ha)
    - STA 11+986 TO 12+269 = 2.24 ACRE ( 0.90 Ha)
    - STA 12+270 TO 12+362 = 0.90 ACRE ( 0.37 Ha)
    - STA 14+140 TO 14+587 = 0.63 ACRE ( 0.25 Ha)
    - STA 15+112 TO 15+901 = 3.11 ACRE ( 1.26 Ha)

TOTAL = 16.24 ACRE ( 6.57 Ha)
  - ALREADY ACQUIRED TOTAL LAND AREA:
    - STA 1+194 TO 1+454 = 0.94 ACRE ( 0.38 Ha)
    - STA 1+495 TO 1+780 = 1.16 ACRE ( 0.48 Ha)
    - STA 10+130 TO 10+544 = 1.23 ACRE ( 0.50 Ha)

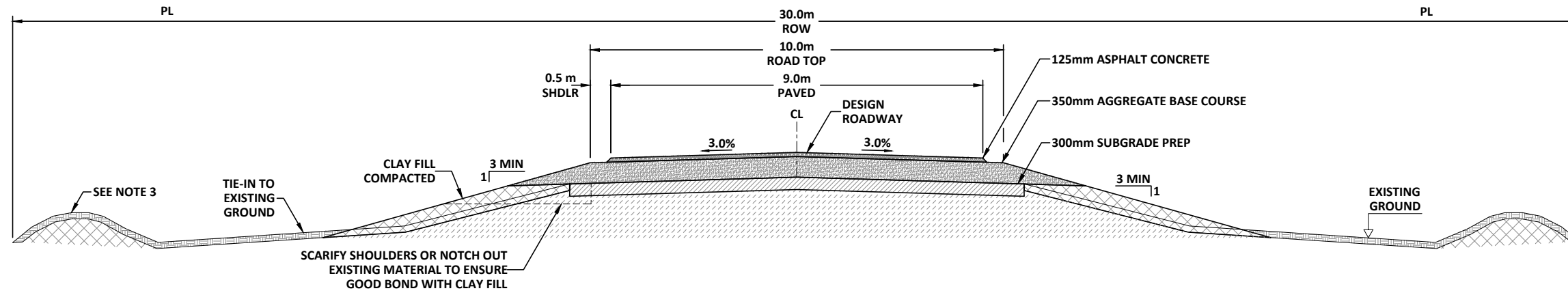
TOTAL = 3.33 ACRE ( 1.36 Ha)

ISSUE	YY-MM-DD	REVISION
2	25-07-09	ISSUED PRELIMINARY DESIGN
1	25-05-22	FOR PRELIMINARY APPROVAL

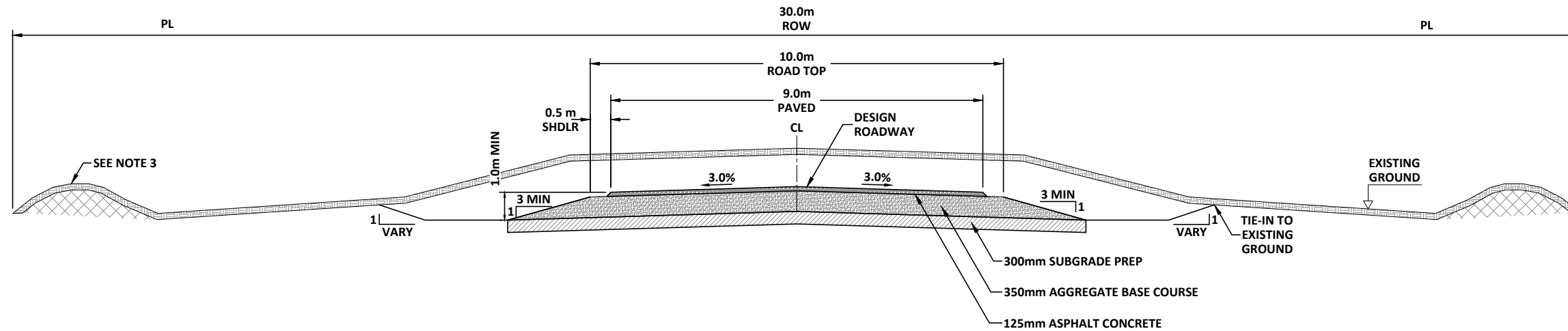


**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
 CIVIL  
 PLAN AND PROFILE - STA 15+000 TO 16+500

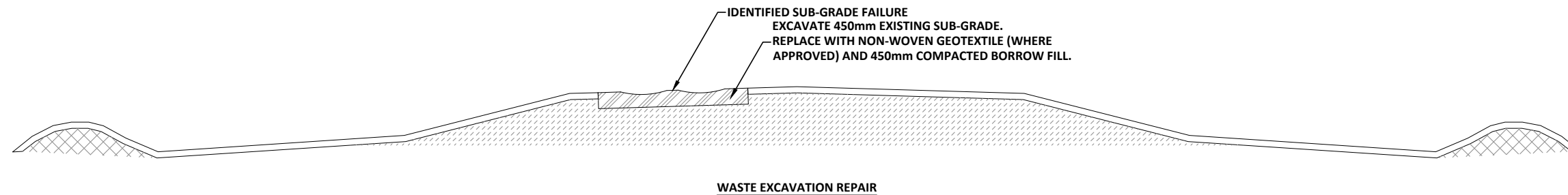
DESIGNED	T.D.S., D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:5000 V 1:500
DATE	JULY 2025	DRAWING	C1.10



TYPICAL FILL SECTION



TYPICAL CUT SECTION



WASTE EXCAVATION REPAIR

- NOTES:
1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.
  2. ALL ELEVATIONS, STATIONS, LENGTHS AND DIMENSIONS IN METERS UNLESS NOTED OTHERWISE.
  3. CONTRACTOR TO STRIP AND WINDROW TOPSOIL WITHIN THE ROW FOR THE EXTENT OF CUT OF FILL AREAS. TOPSOIL TO BE REPLACED ON FINISHED ROAD SHOULDER AND BACK SLOPES DITCH BOTTOMS, BOTH SIDES.
  4. SHOULDER SLOPE SHALL BE CONSTRUCTED SUCH THAT A ROAD TOP WIDTH OF 9.0m MINIMUM AND A SHOULDER SLOPE NO STEEPER THAN 3:1 ARE MAINTAINED.

ISSUE	YY-MM-DD	REVISION
2	25-07-09	ISSUED PRELIMINARY DESIGN
1	25-05-22	FOR PRELIMINARY APPROVAL

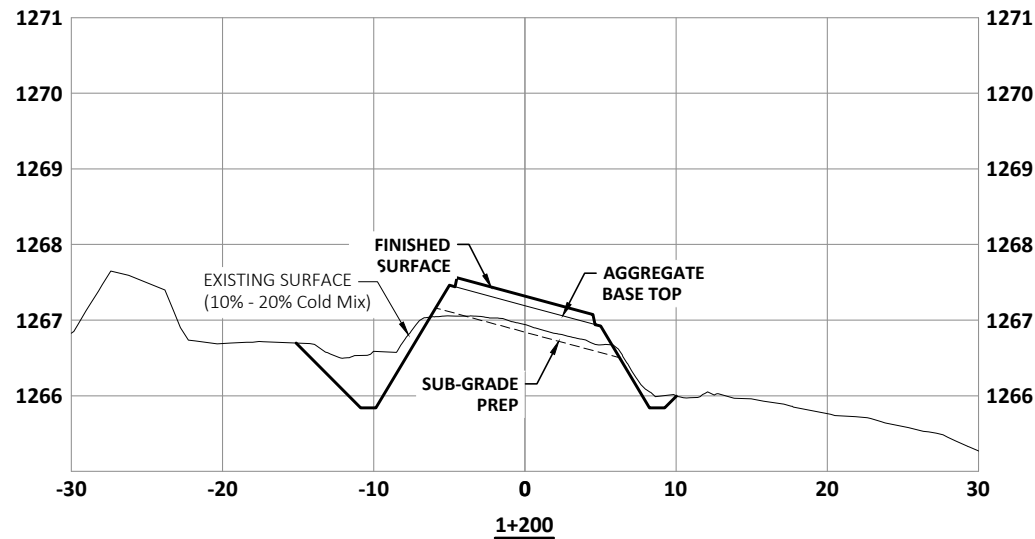
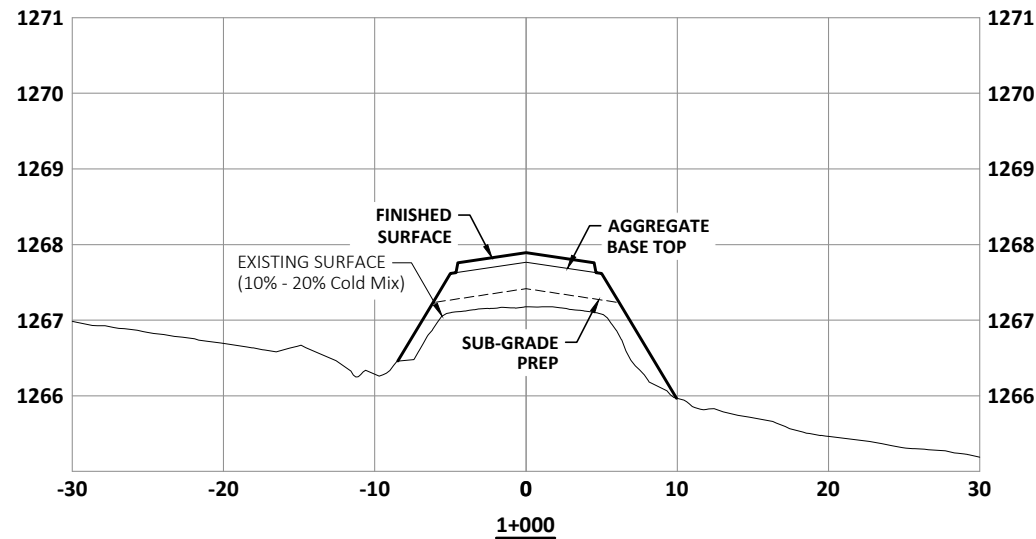
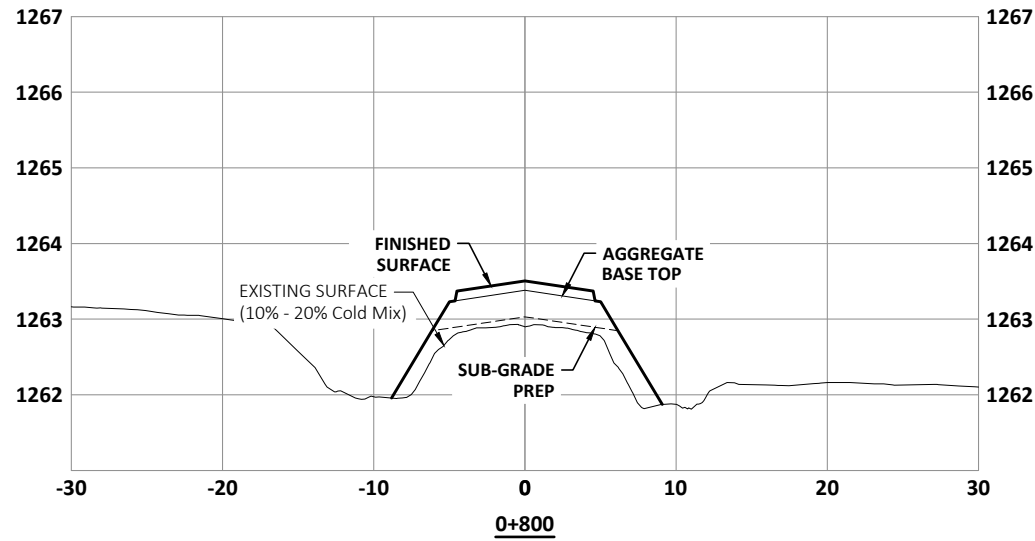
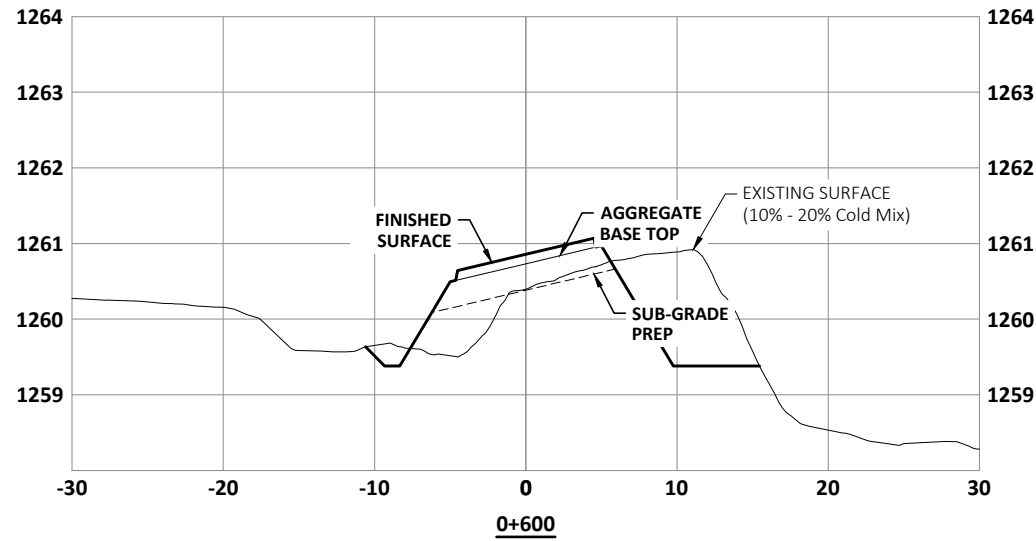
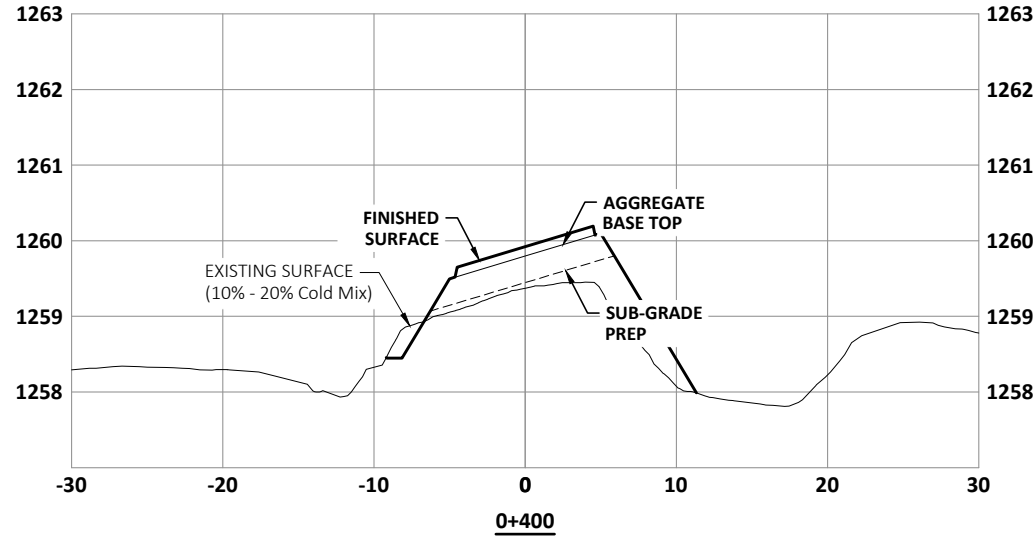
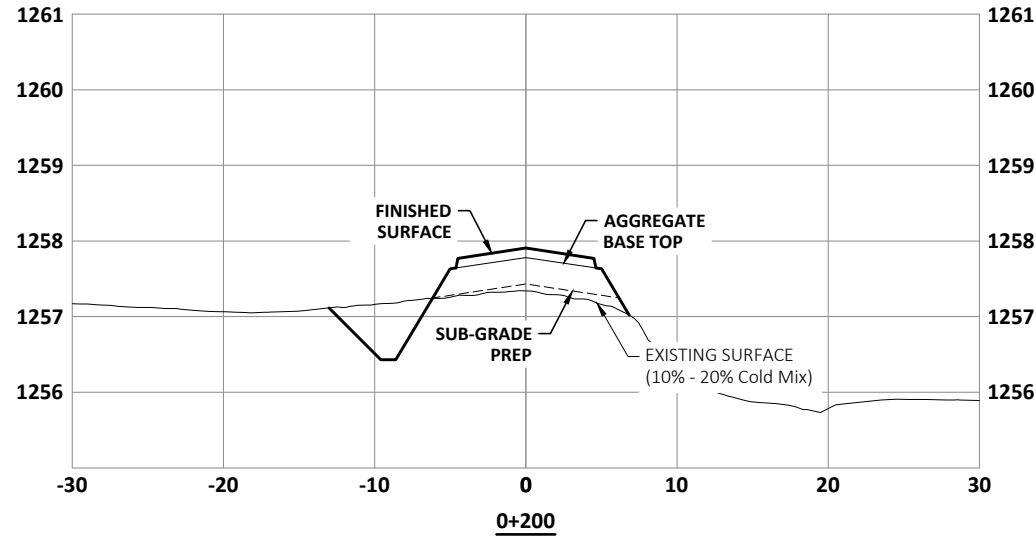


a division of Englobe

M.D OF PINCHER CREEK

MAYCROFT ROAD UPGRADES  
CIVIL  
TYPICAL CROSS SECTION

DESIGNED	T.D.S, D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	NTS
DATE	JULY 2025	DRAWING	C2.0



NOTES:  
 1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.

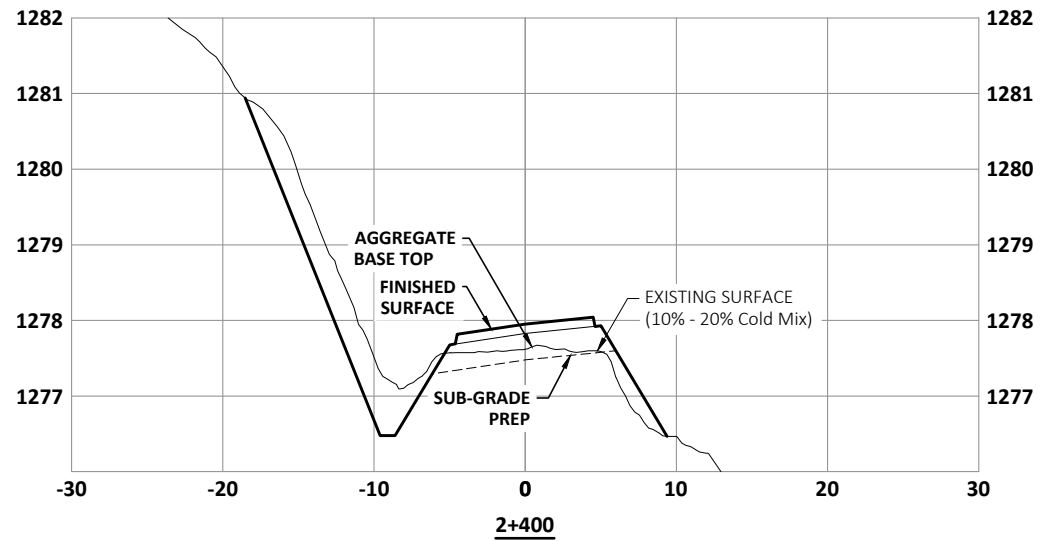
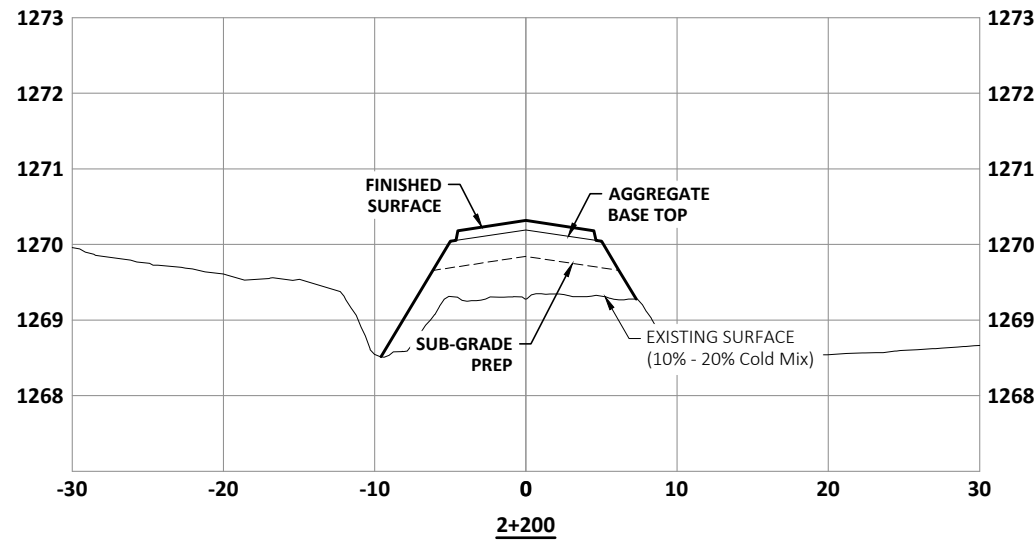
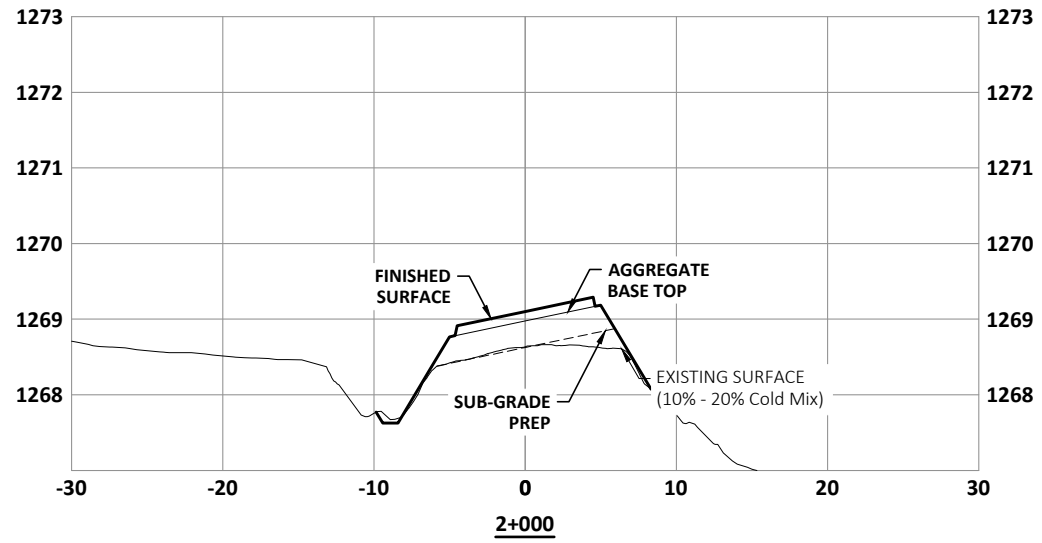
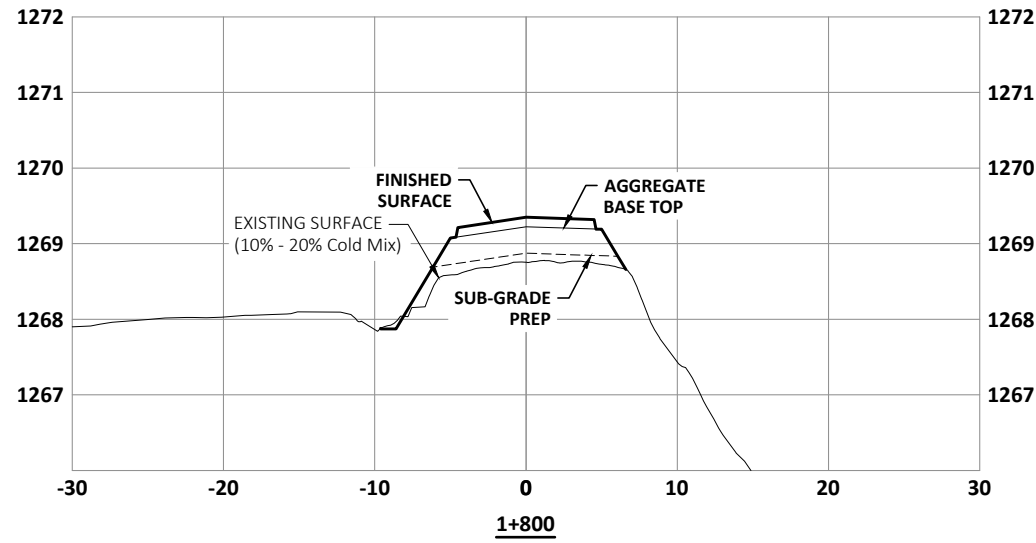
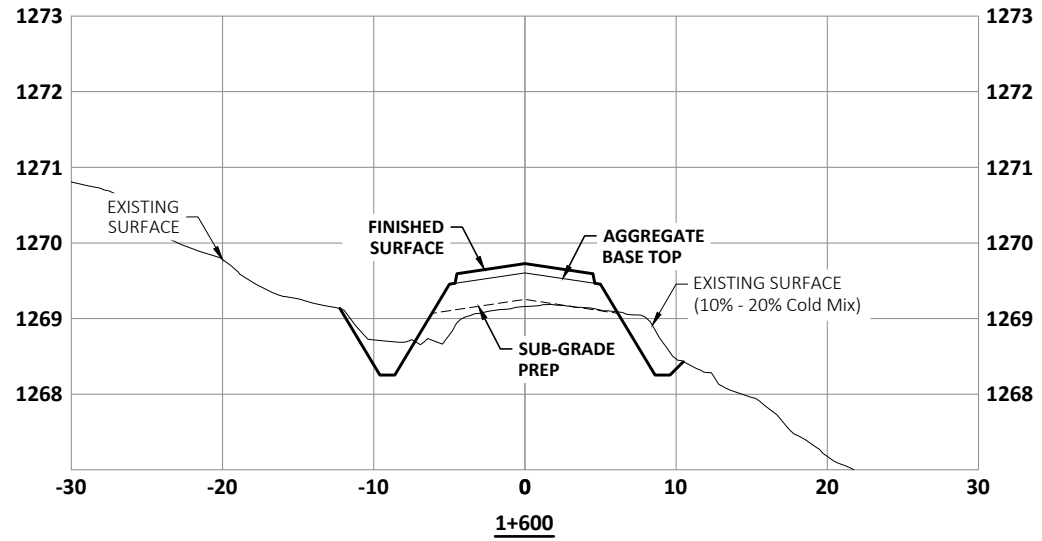
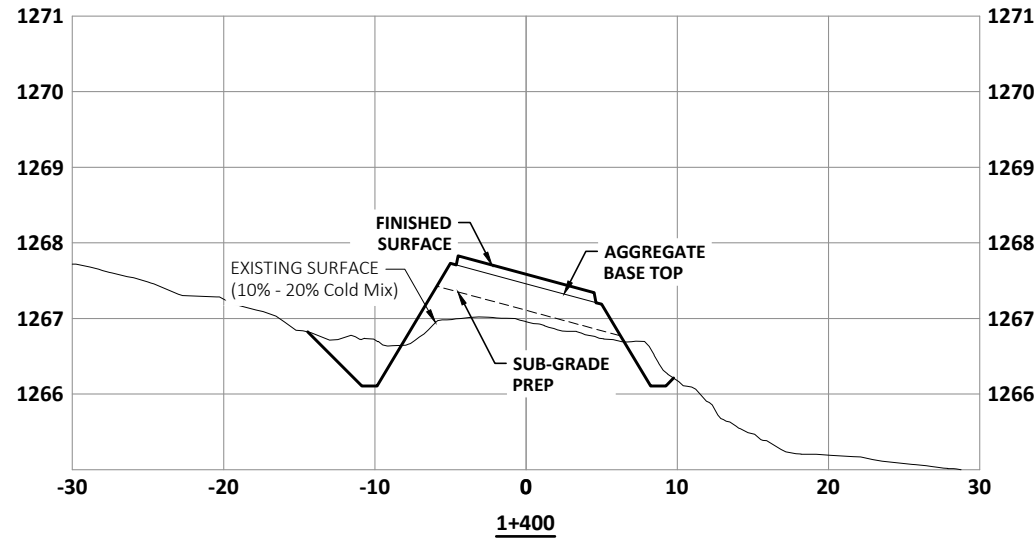
2	25-07-09	ISSUED PRELIMINARY DESIGN
1	25-05-22	FOR PRELIMINARY APPROVAL
ISSUE	YY-MM-DD	REVISION



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**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
 CIVIL  
 CROSS SECTIONS - STA 0+000 TO 1+200

DESIGNED	T.D.S, D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:500, V 1:100
DATE	JULY 2025	DRAWING	C2.1



NOTES:  
 1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.

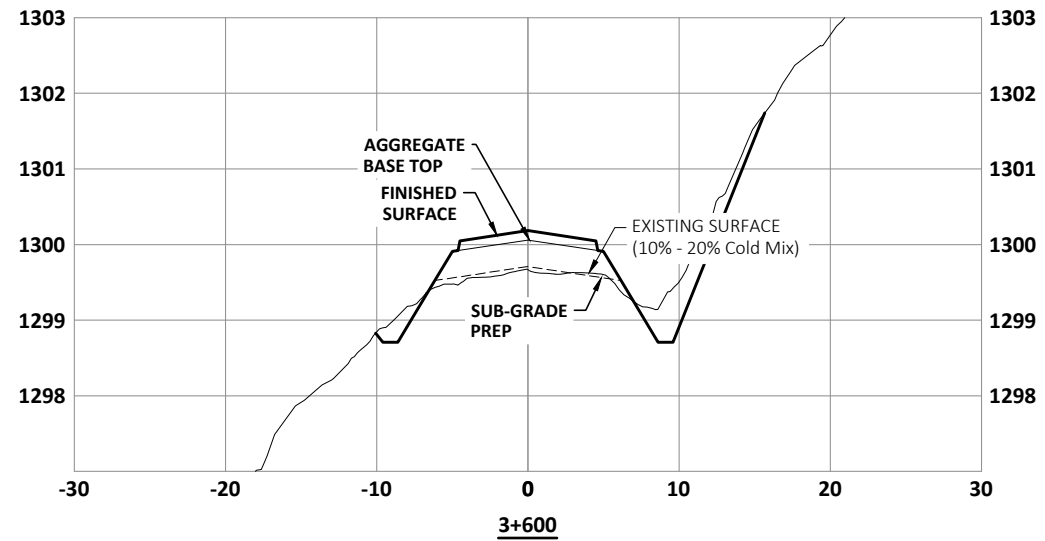
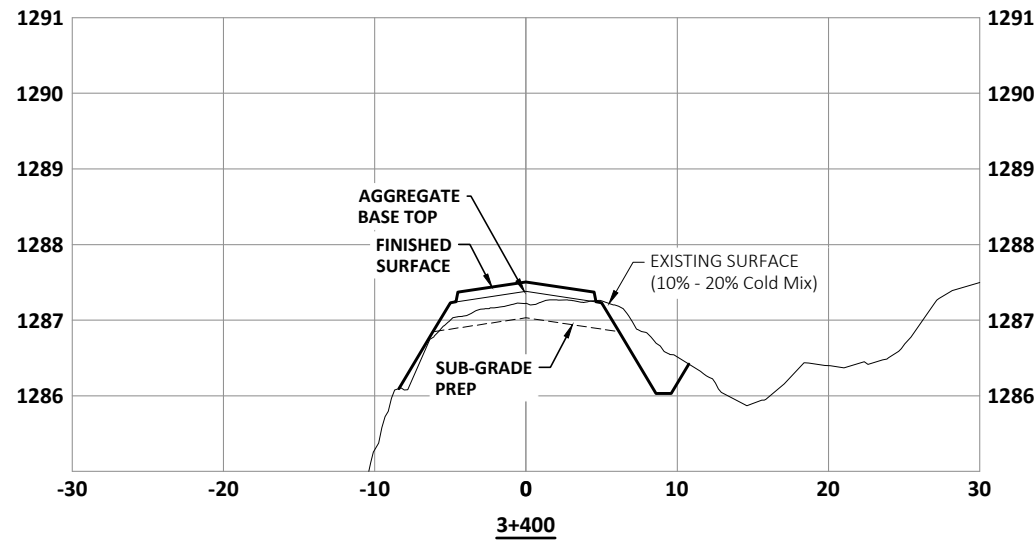
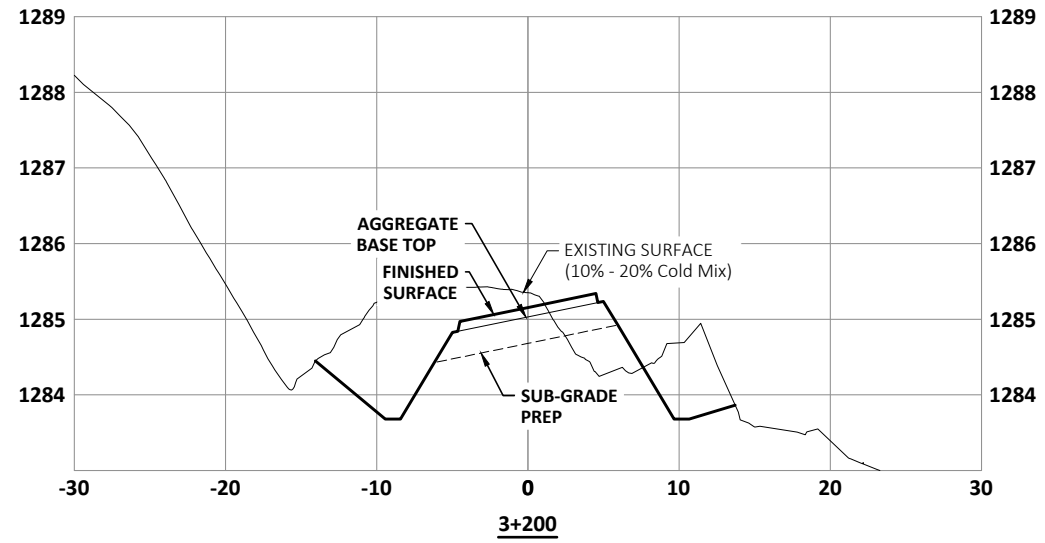
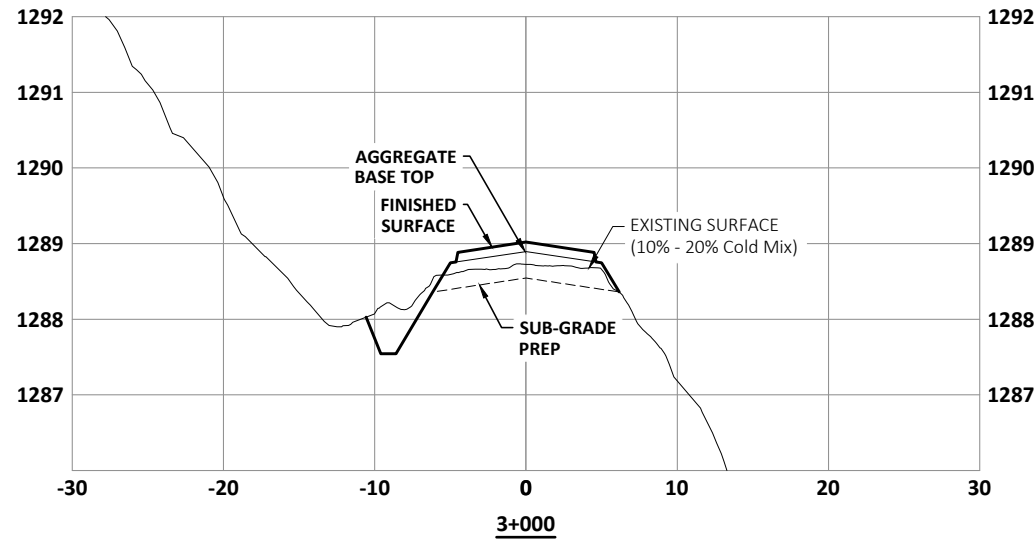
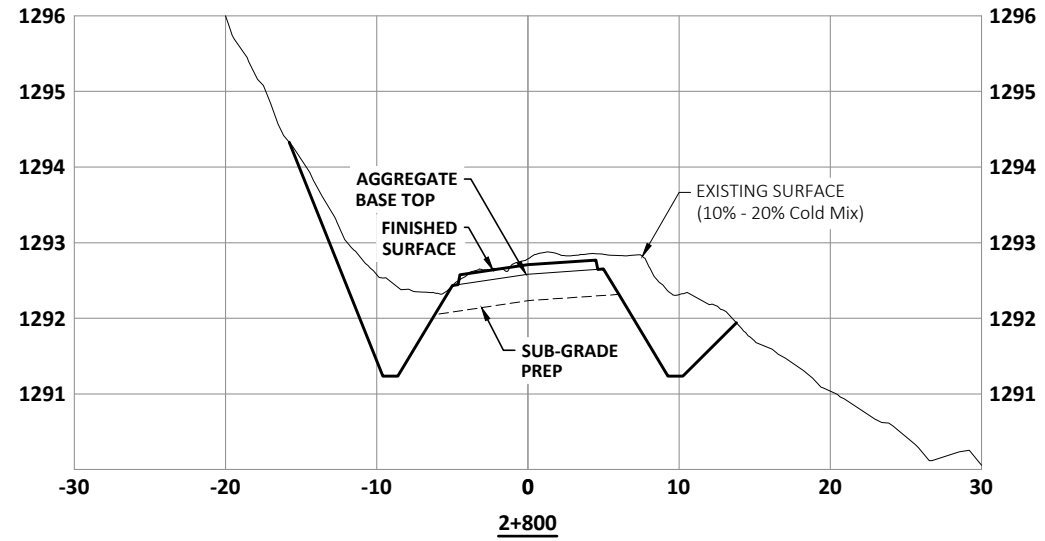
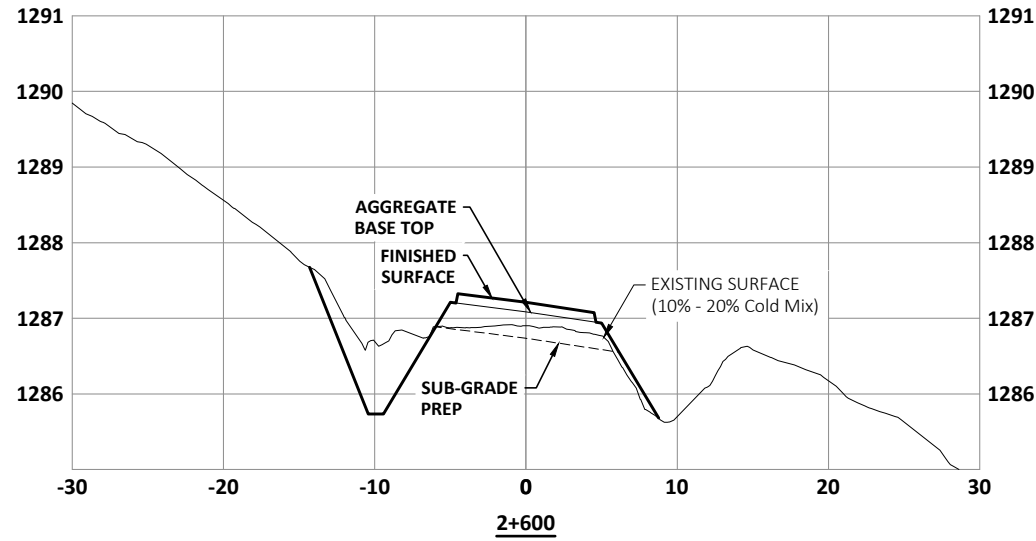
2	25-07-09	ISSUED PRELIMINARY DESIGN
1	25-05-22	FOR PRELIMINARY APPROVAL
ISSUE	YY-MM-DD	REVISION



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**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
**CIVIL**  
**CROSS SECTIONS - STA 1+200 TO 2+400**

DESIGNED	T.D.S, D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:500, V 1:100
DATE	JULY 2025	DRAWING	C2.2



NOTES:  
 1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.

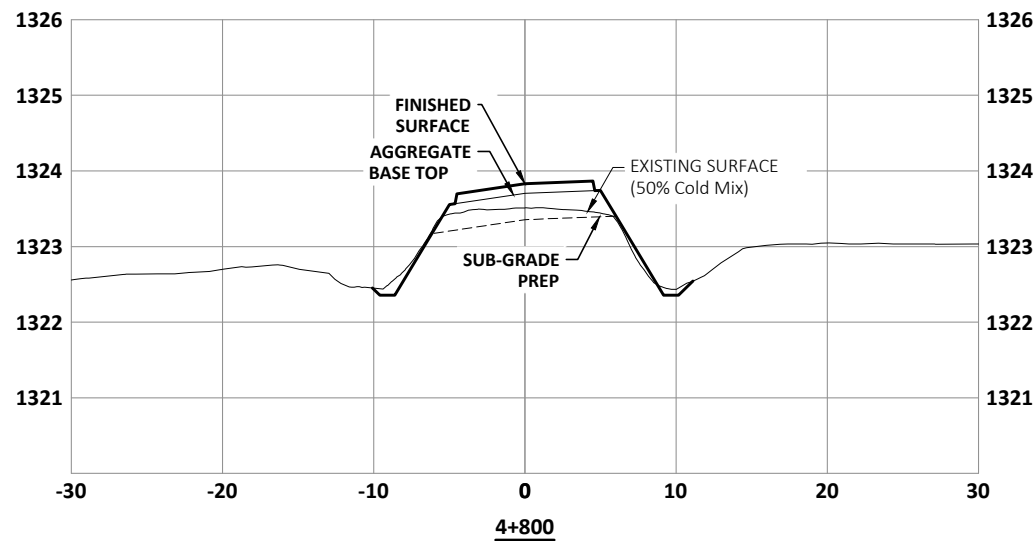
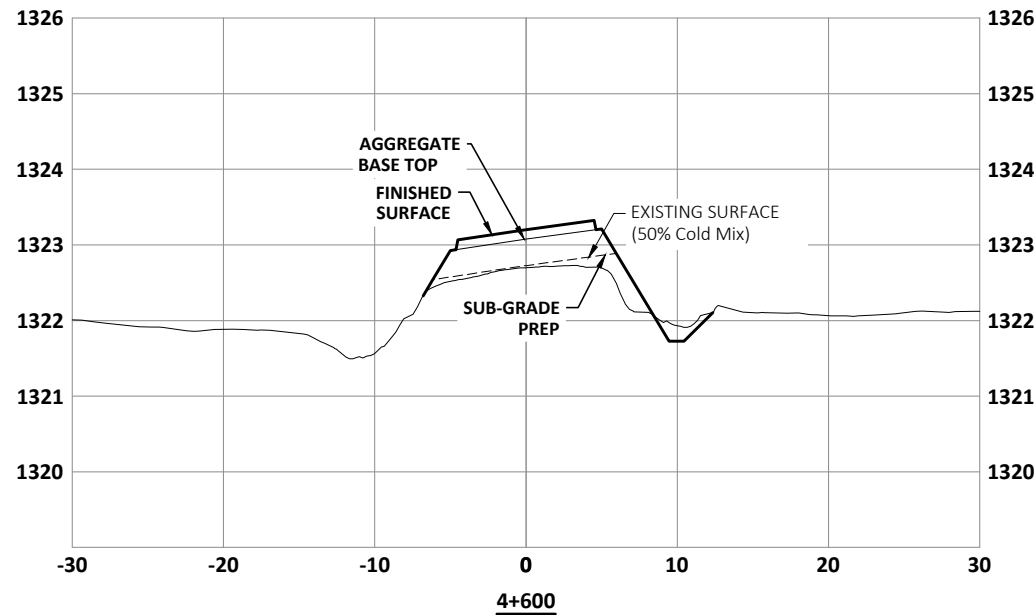
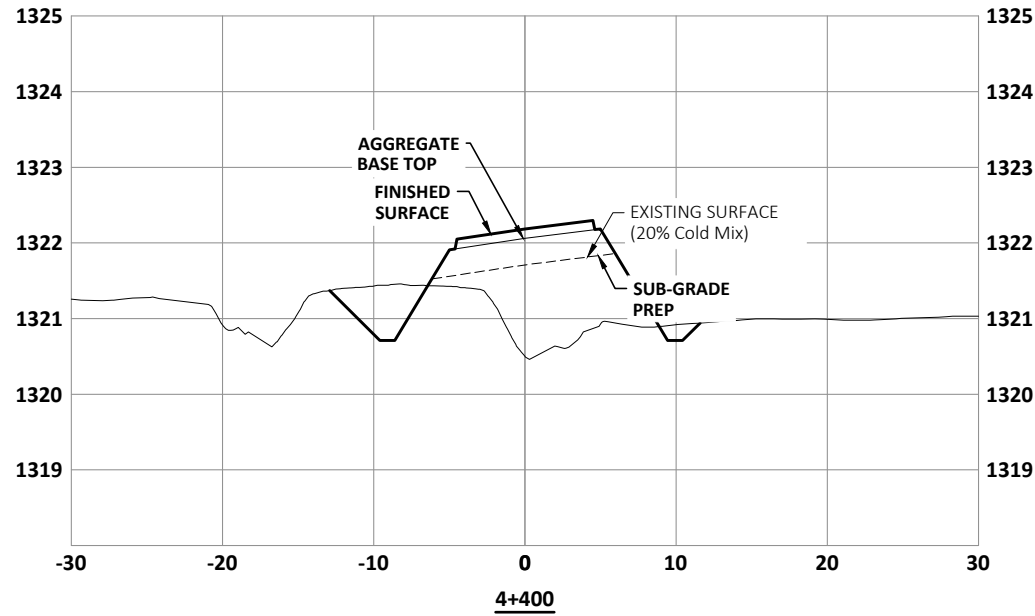
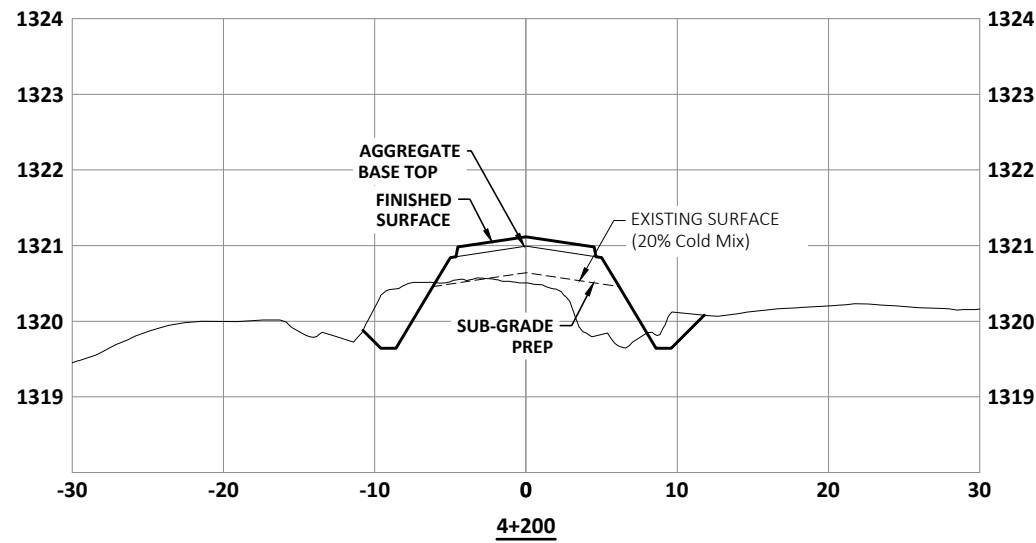
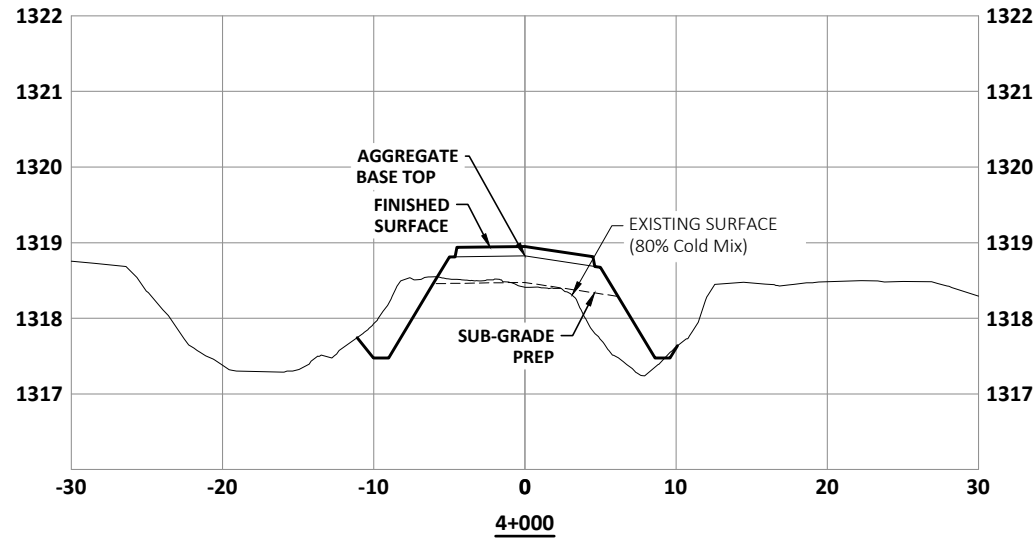
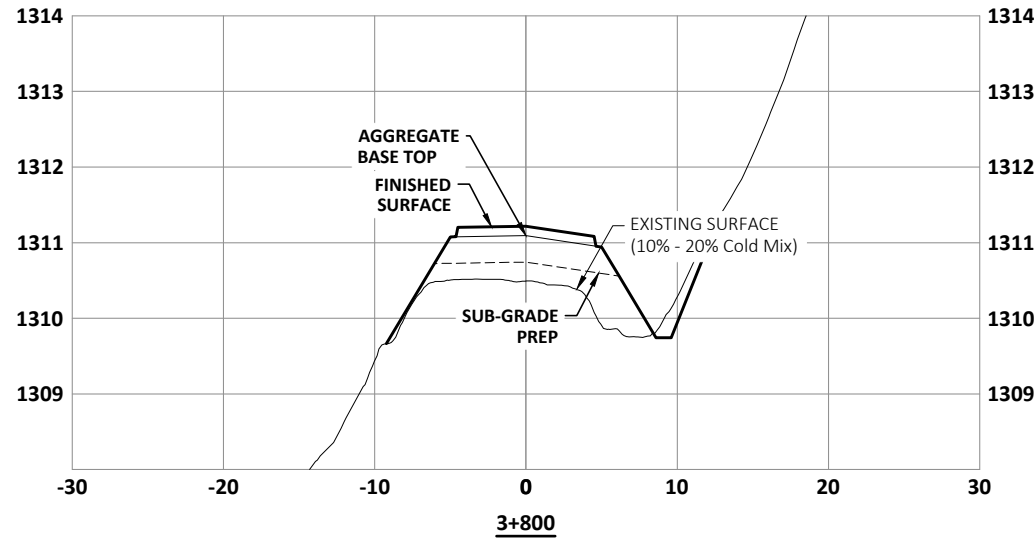
ISSUE	YY-MM-DD	REVISION
2	25-07-09	ISSUED PRELIMINARY DESIGN
1	25-05-22	FOR PRELIMINARY APPROVAL



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**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
**CIVIL**  
**CROSS SECTIONS - STA 2+400 TO 3+600**

DESIGNED	T.D.S., D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:500, V 1:100
DATE	JULY 2025	DRAWING	C2.3



NOTES:  
 1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.

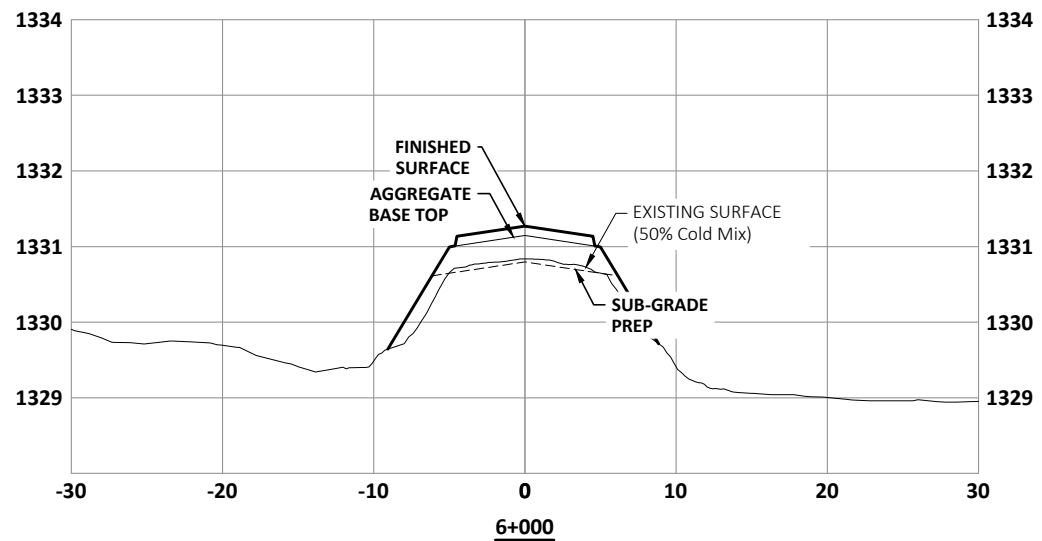
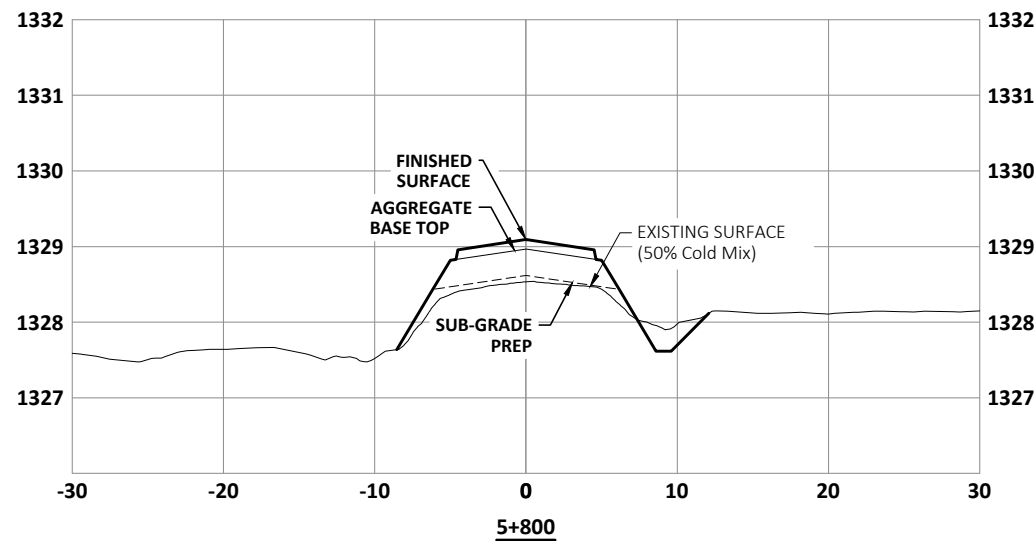
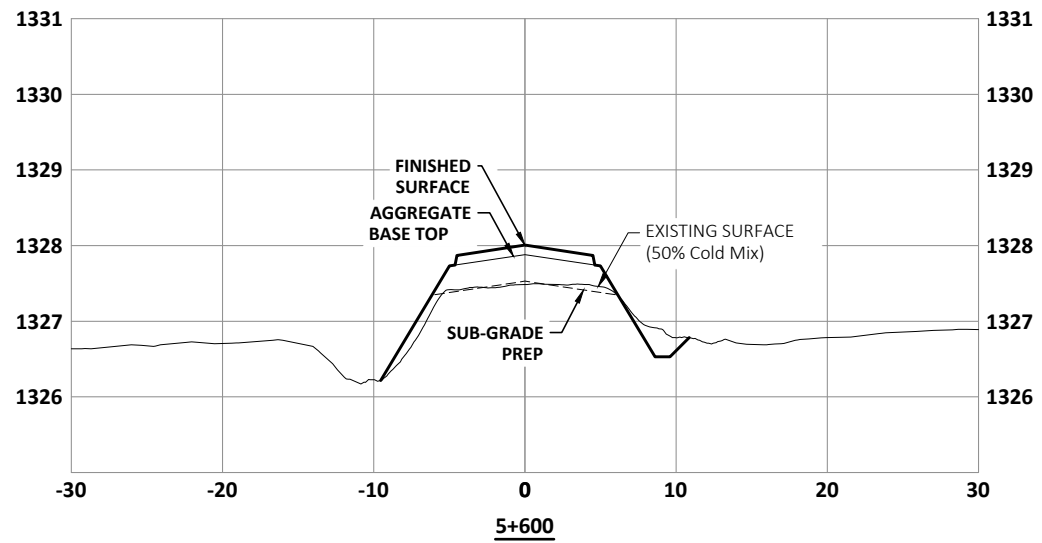
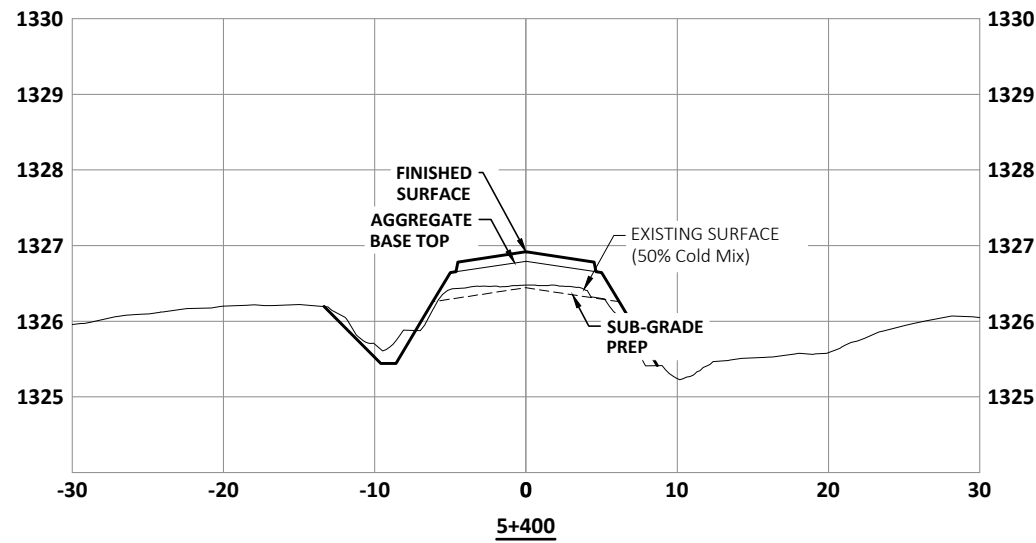
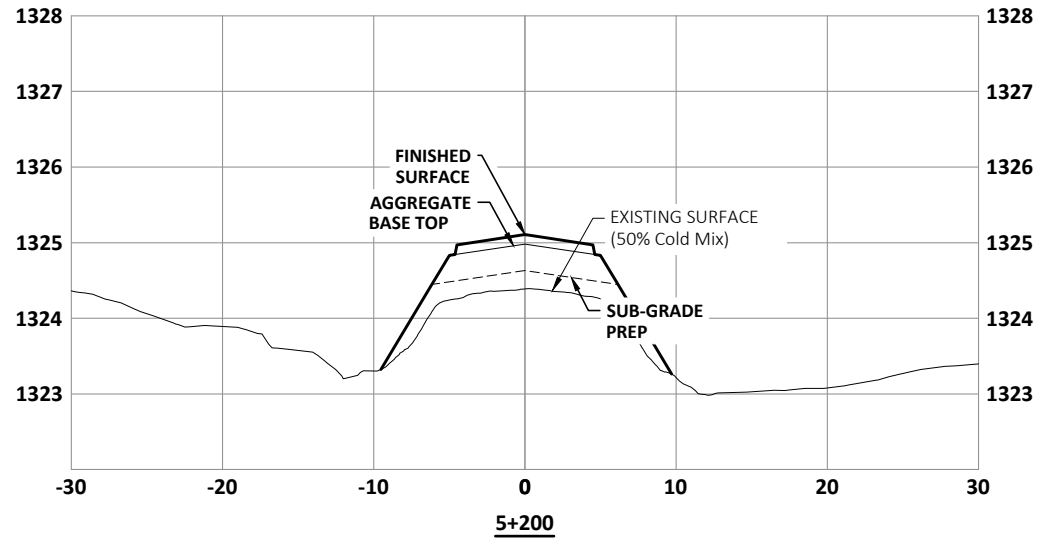
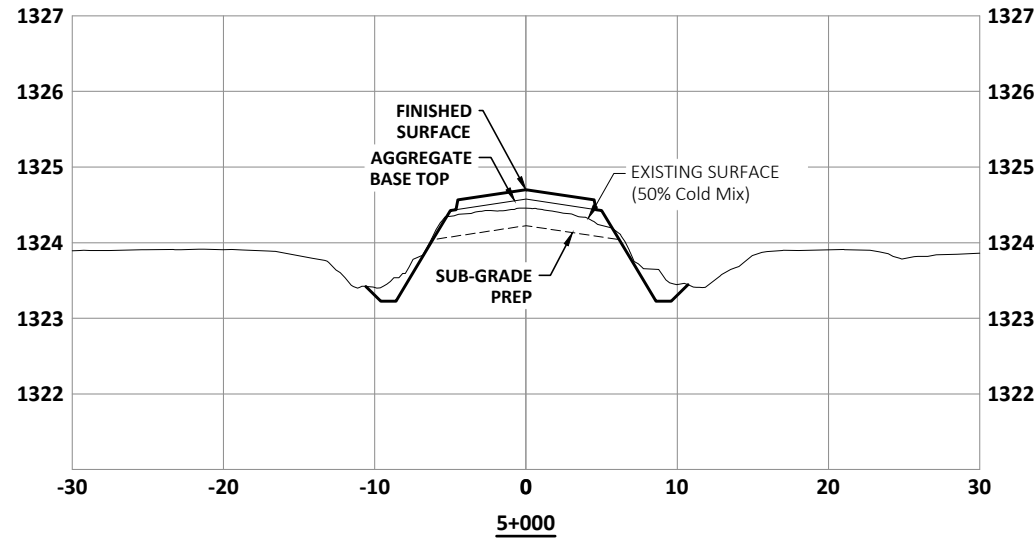
2	25-07-09	ISSUED PRELIMINARY DESIGN
1	25-05-22	FOR PRELIMINARY APPROVAL
ISSUE	YY-MM-DD	REVISION



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**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
**CIVIL**  
**CROSS SECTIONS - STA 3+600 TO 4+800**

DESIGNED	T.D.S., D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:500, V 1:100
DATE	JULY 2025	DRAWING	C2.4



NOTES:  
 1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.

2	25-07-09	ISSUED PRELIMINARY DESIGN
1	25-05-22	FOR PRELIMINARY APPROVAL
ISSUE	YY-MM-DD	REVISION

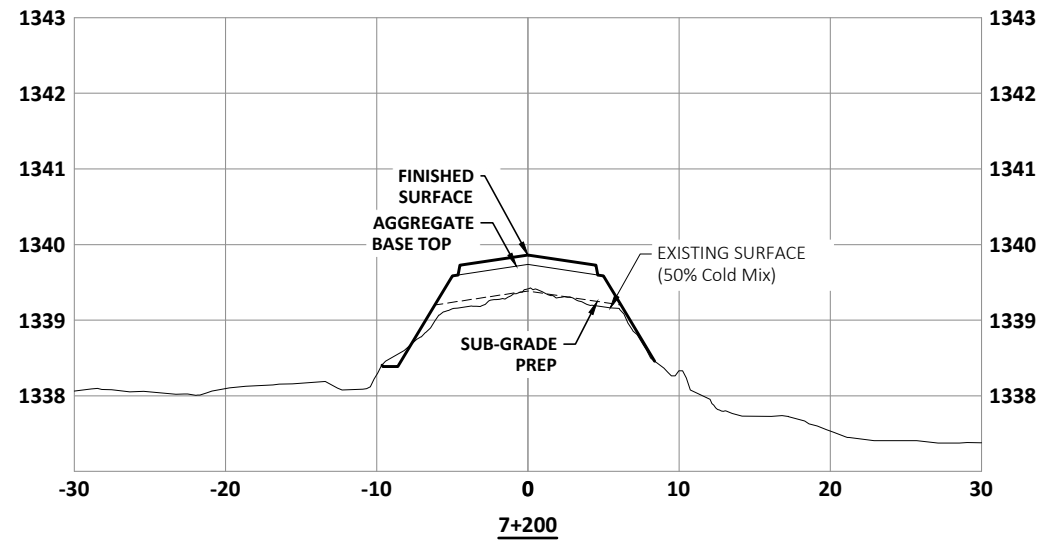
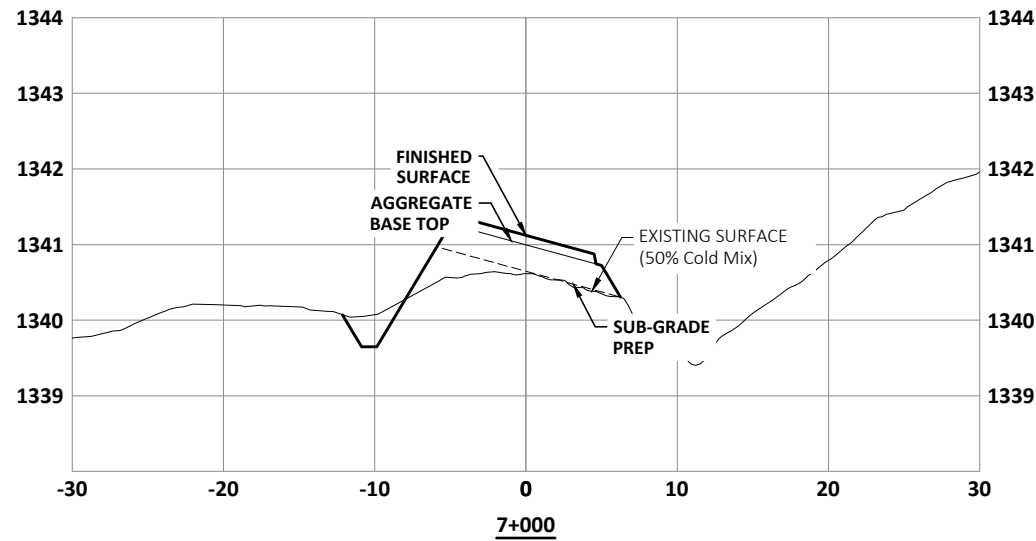
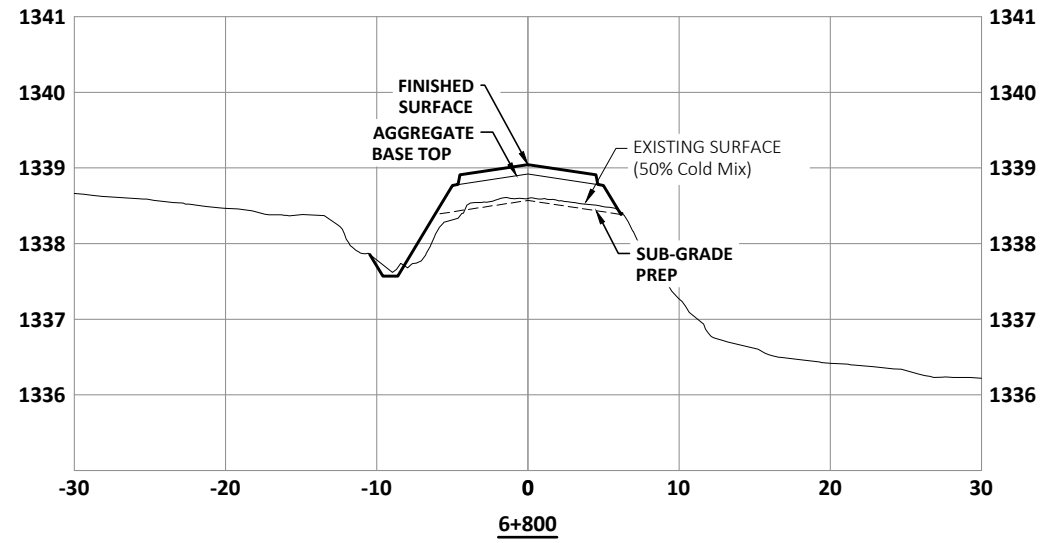
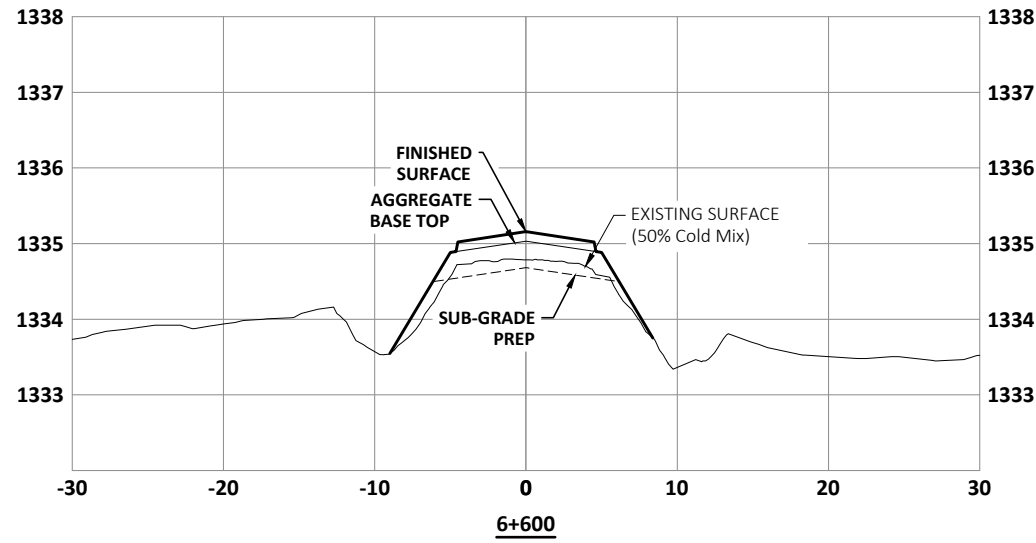
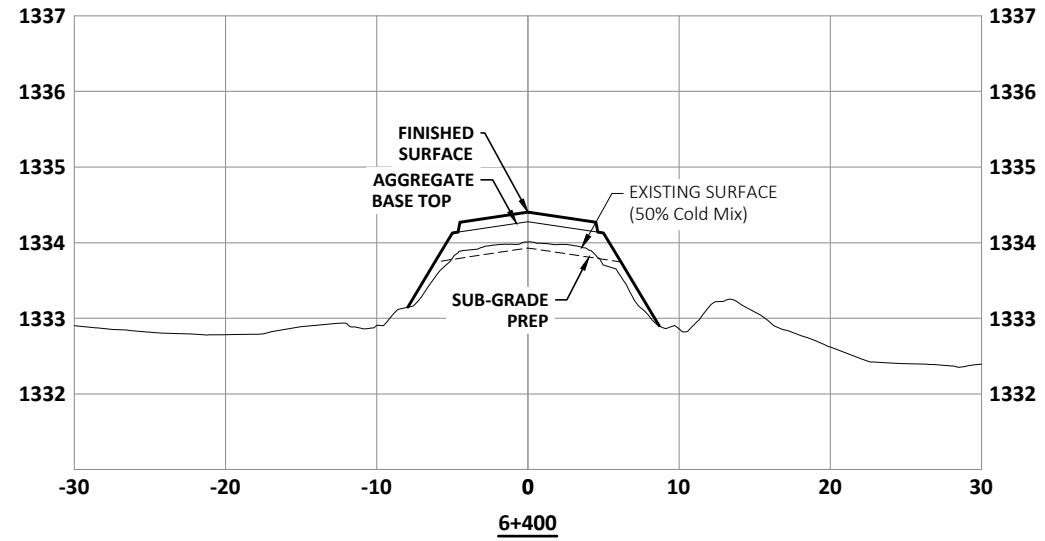
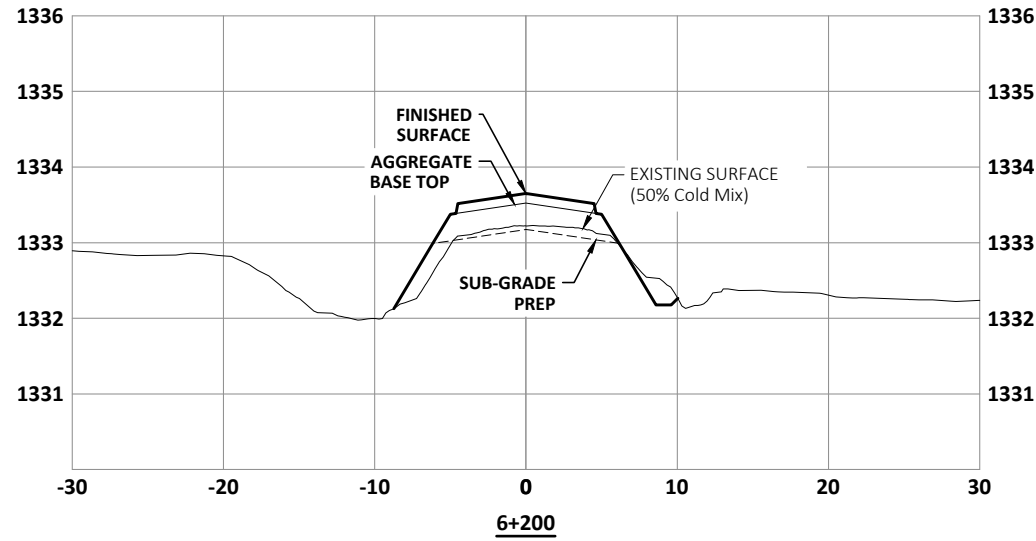


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**M.D OF PINCHER CREEK**

**MAYCROFT ROAD UPGRADES  
 CIVIL  
 CROSS SECTIONS - STA 4+800 TO 6+000**

DESIGNED	T.D.S., D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:500, V 1:100
DATE	JULY 2025	DRAWING	C2.5



NOTES:  
 1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.

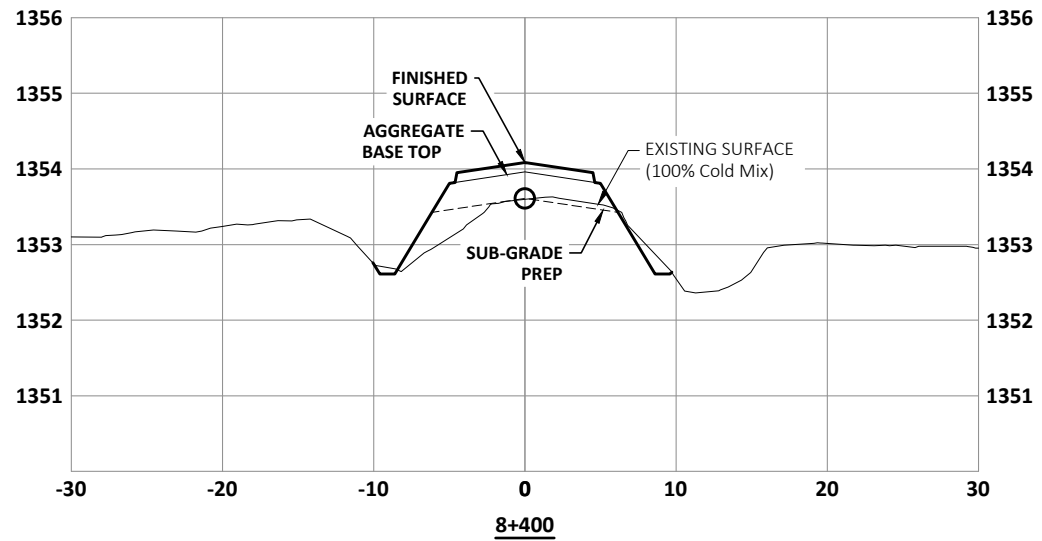
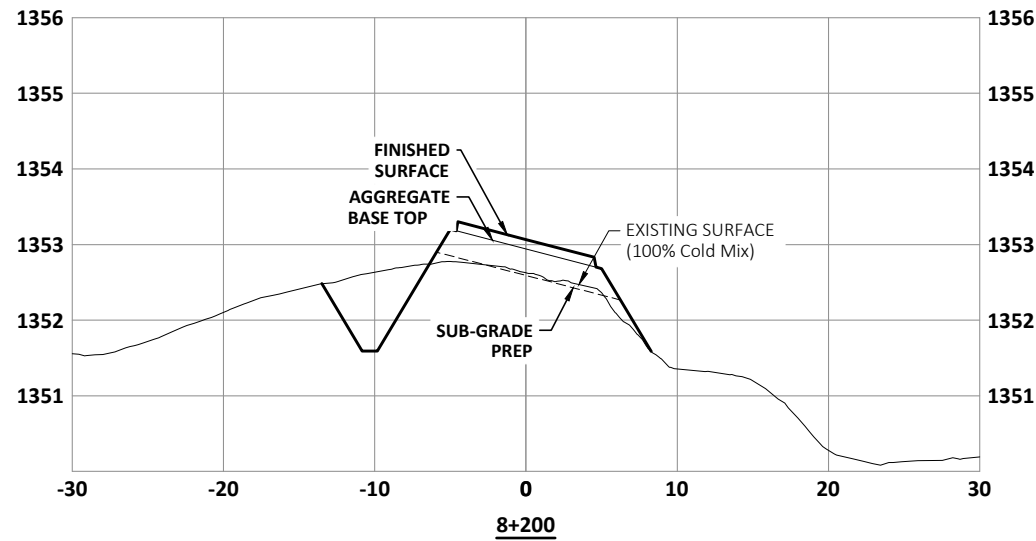
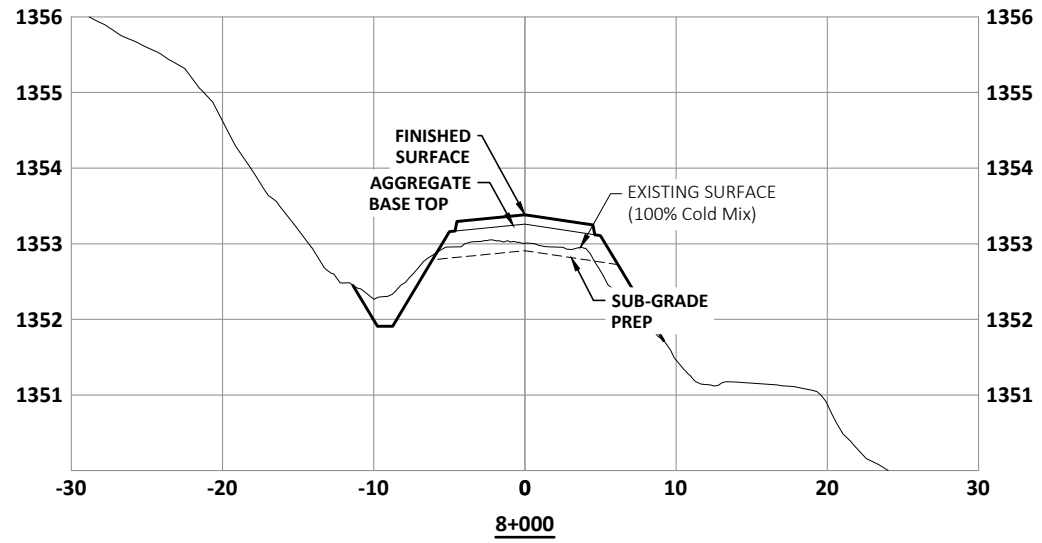
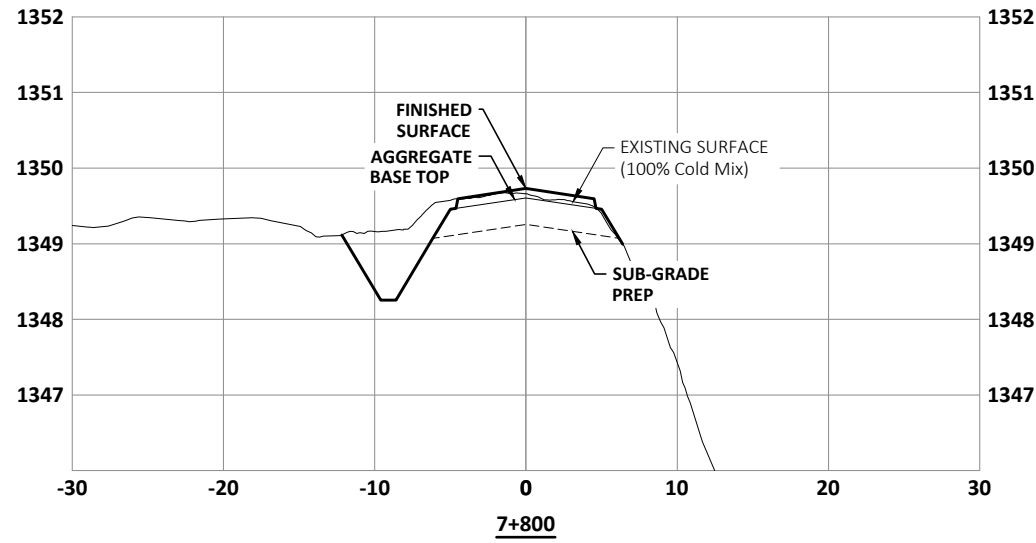
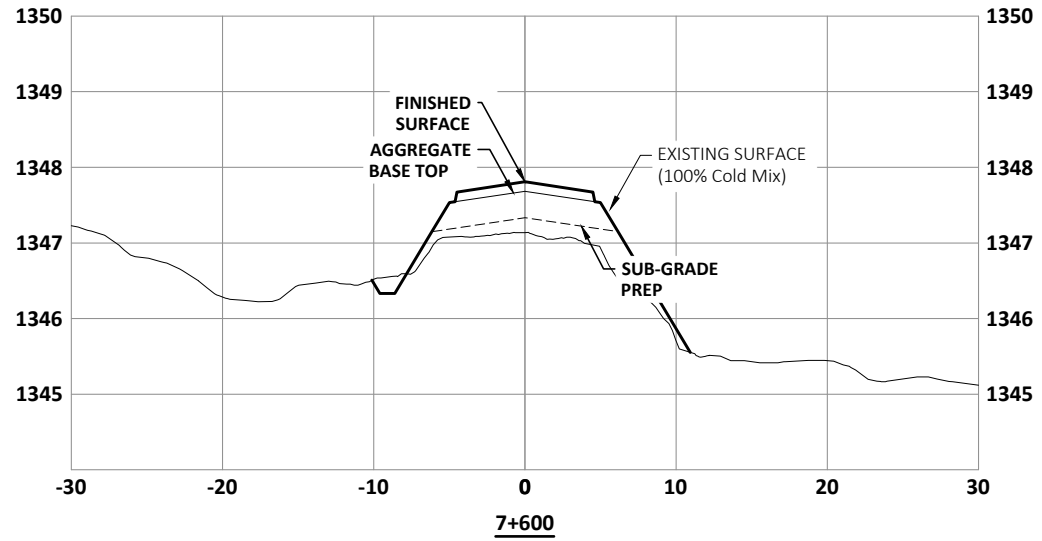
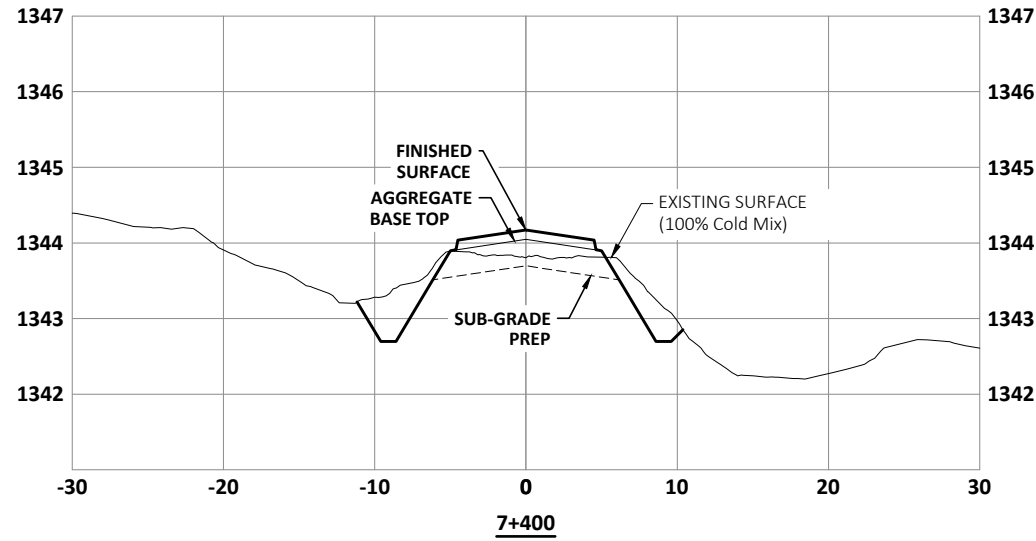
2	25-07-09	ISSUED PRELIMINARY DESIGN
1	25-05-22	FOR PRELIMINARY APPROVAL
ISSUE	YY-MM-DD	REVISION



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**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
**CIVIL**  
**CROSS SECTIONS - STA 6+000 TO 7+200**

DESIGNED	T.D.S, D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:500 , V 1:100
DATE	JULY 2025	DRAWING	C2.6



NOTES:  
 1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.

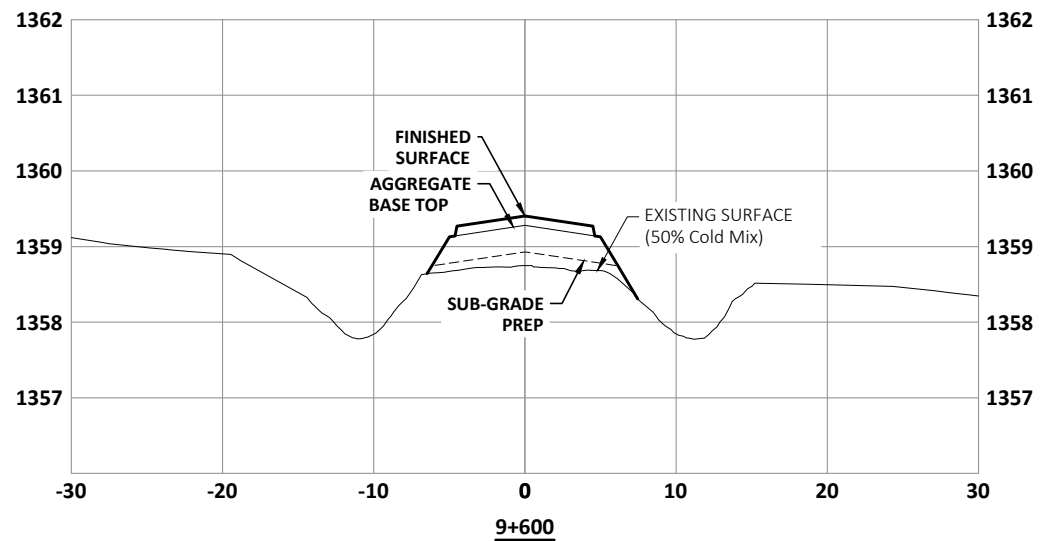
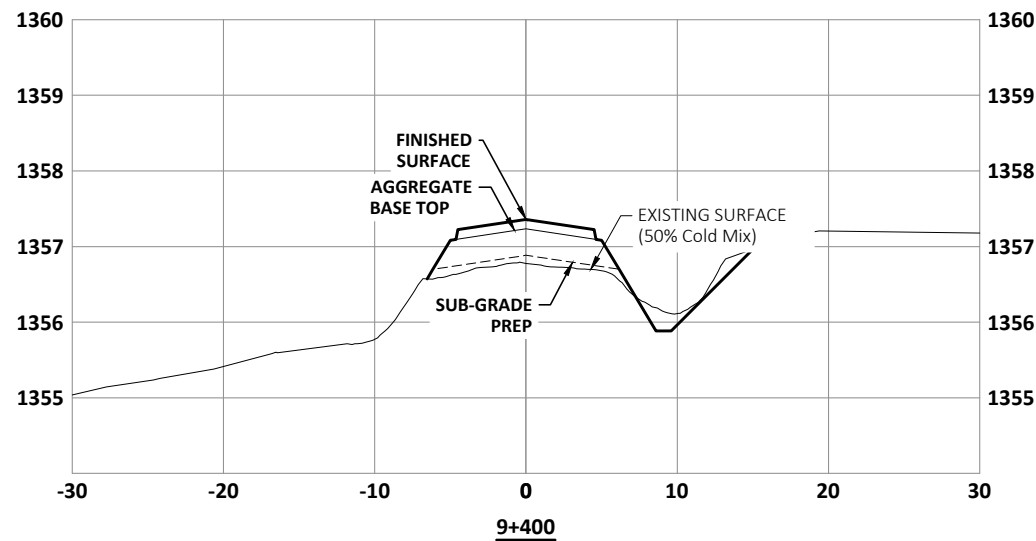
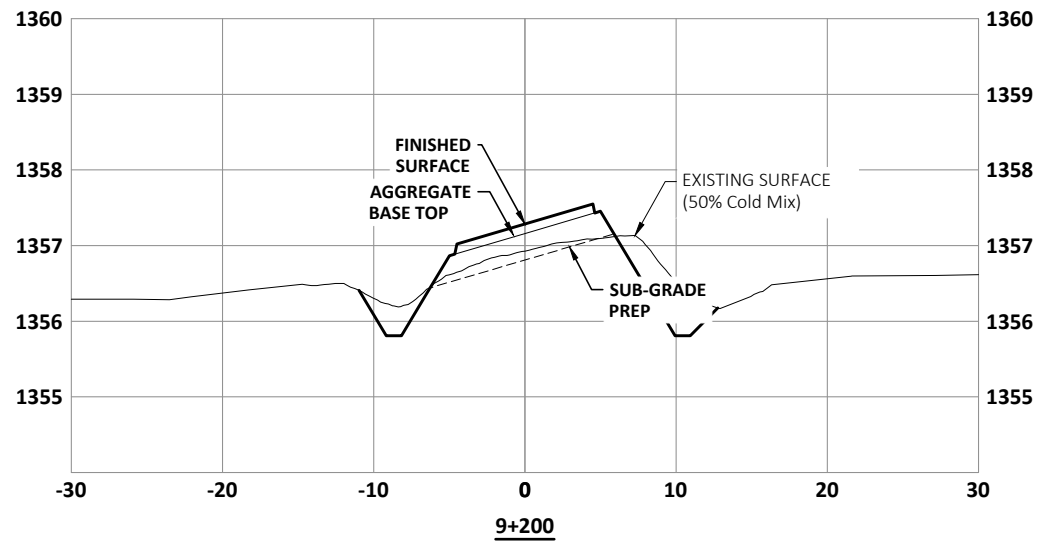
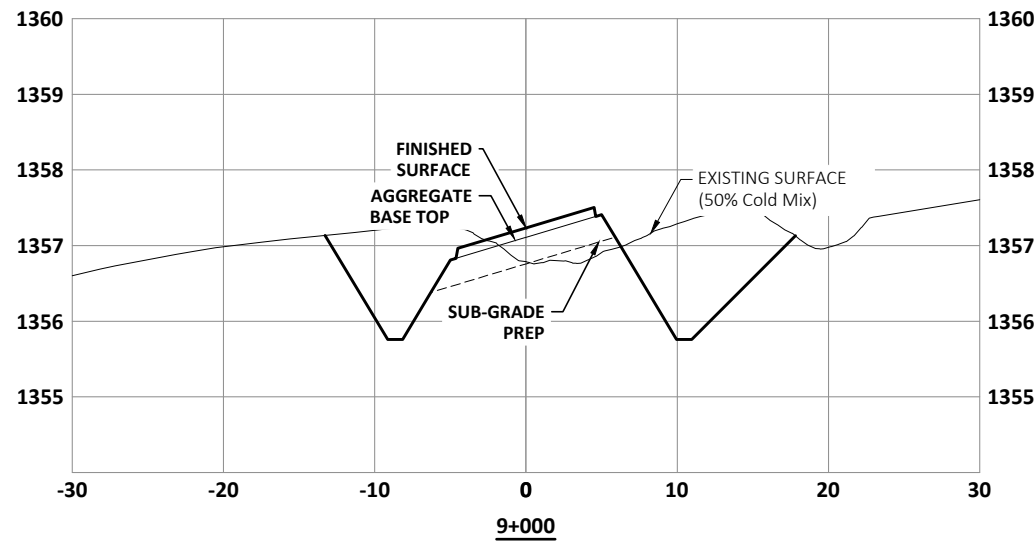
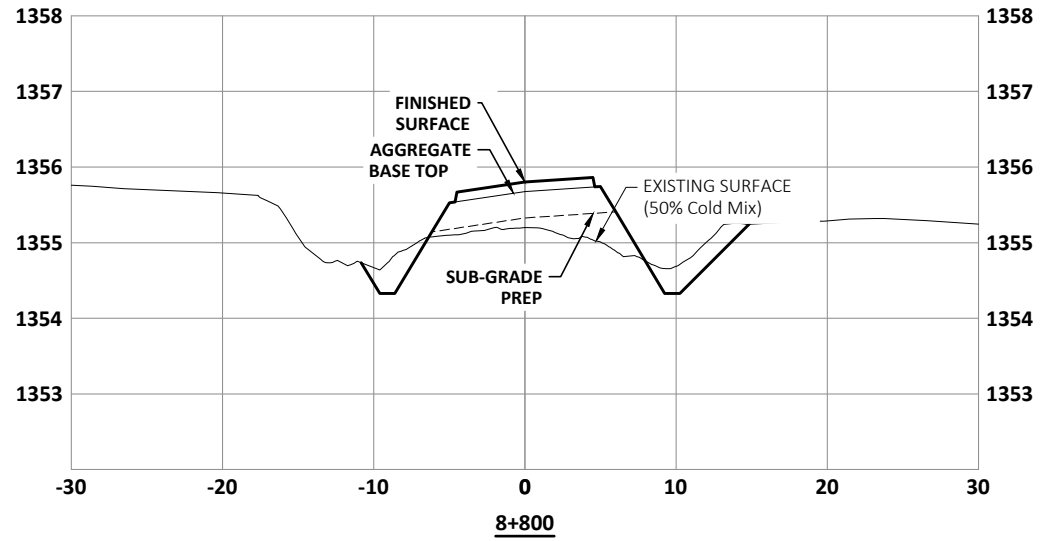
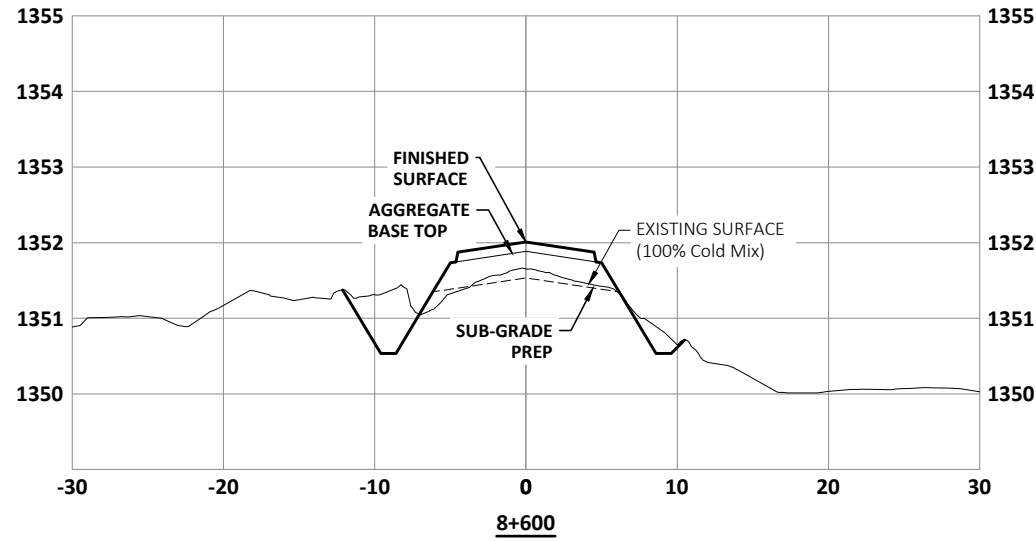
2	25-07-09	ISSUED PRELIMINARY DESIGN
1	25-05-22	FOR PRELIMINARY APPROVAL
ISSUE	YY-MM-DD	REVISION



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**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
**CIVIL**  
**CROSS SECTIONS - STA 7+200 TO 8+400**

DESIGNED	T.D.S, D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:500, V 1:100
DATE	JULY 2025	DRAWING	C2.7



NOTES:  
 1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.

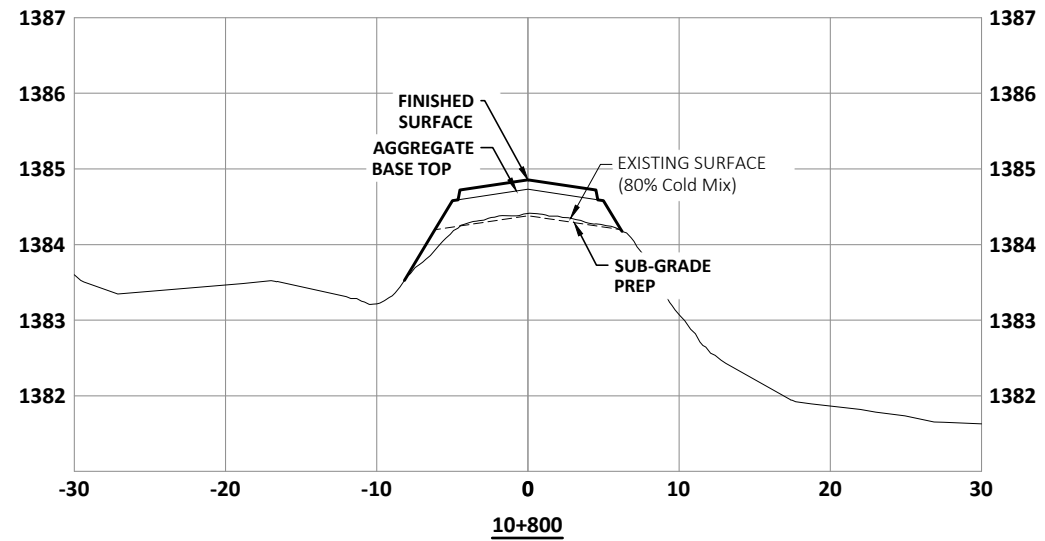
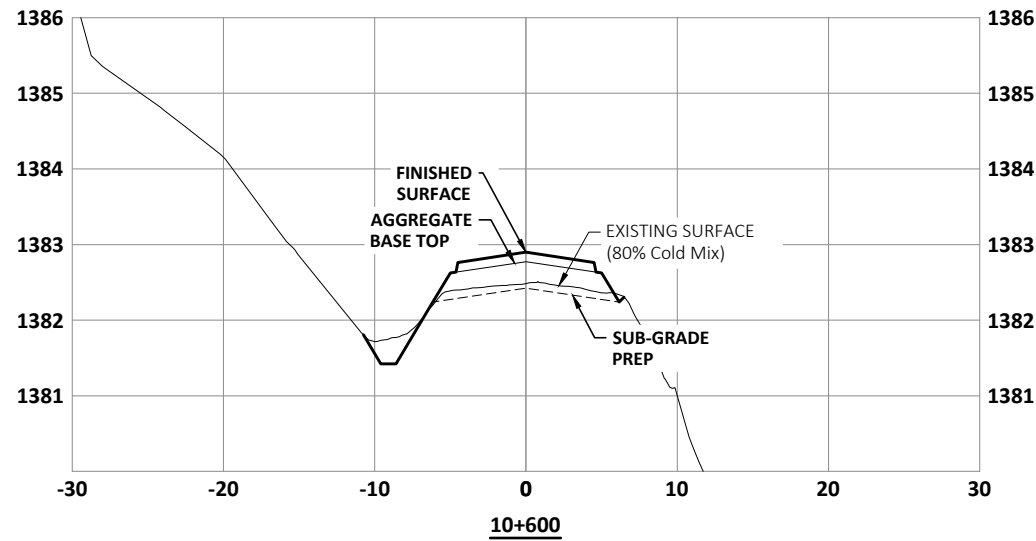
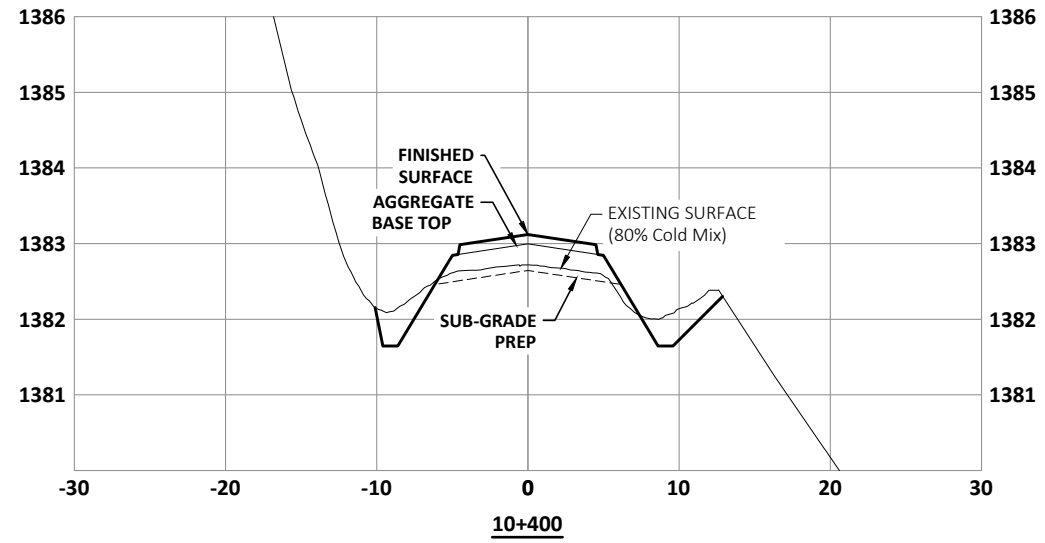
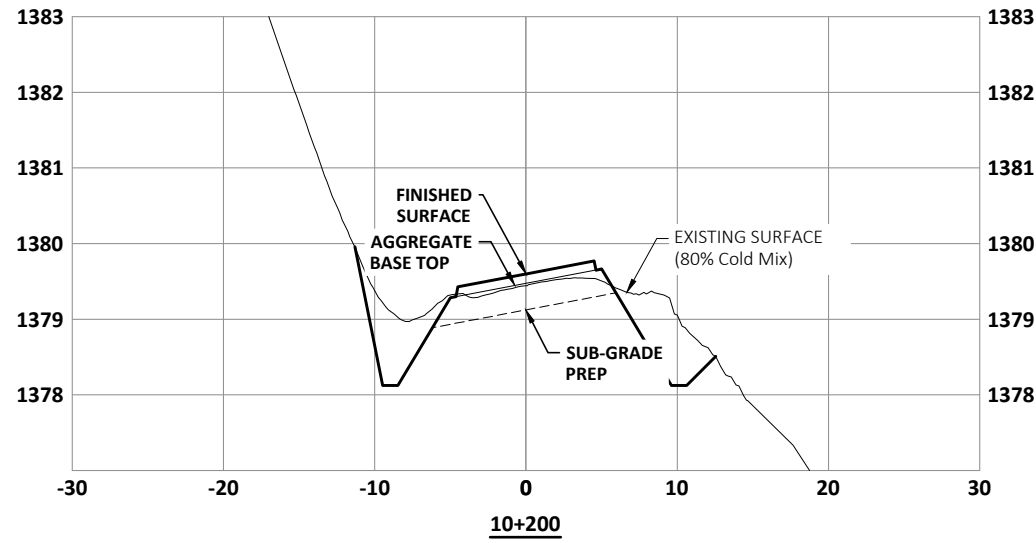
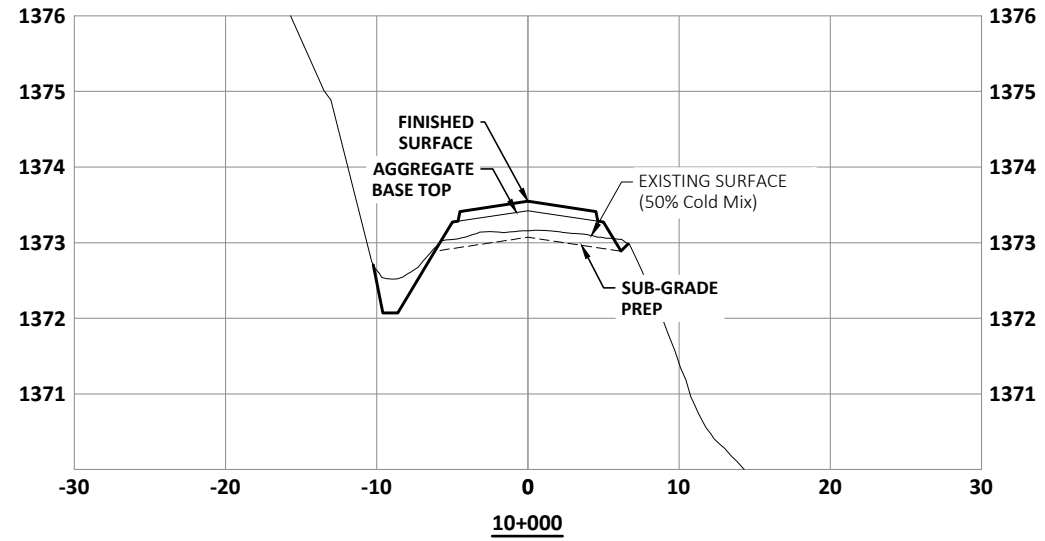
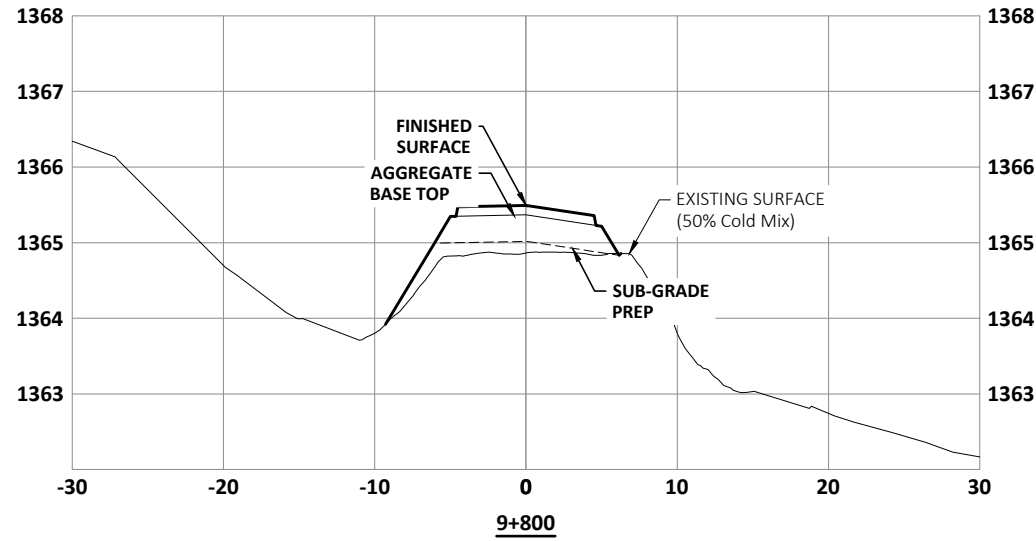
2	25-07-09	ISSUED PRELIMINARY DESIGN
1	25-05-22	FOR PRELIMINARY APPROVAL
ISSUE	YY-MM-DD	REVISION



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**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
**CIVIL**  
**CROSS SECTIONS - STA 8+400 TO 9+600**

DESIGNED	T.D.S, D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:500, V 1:100
DATE	JULY 2025	DRAWING	C2.8



NOTES:  
 1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.

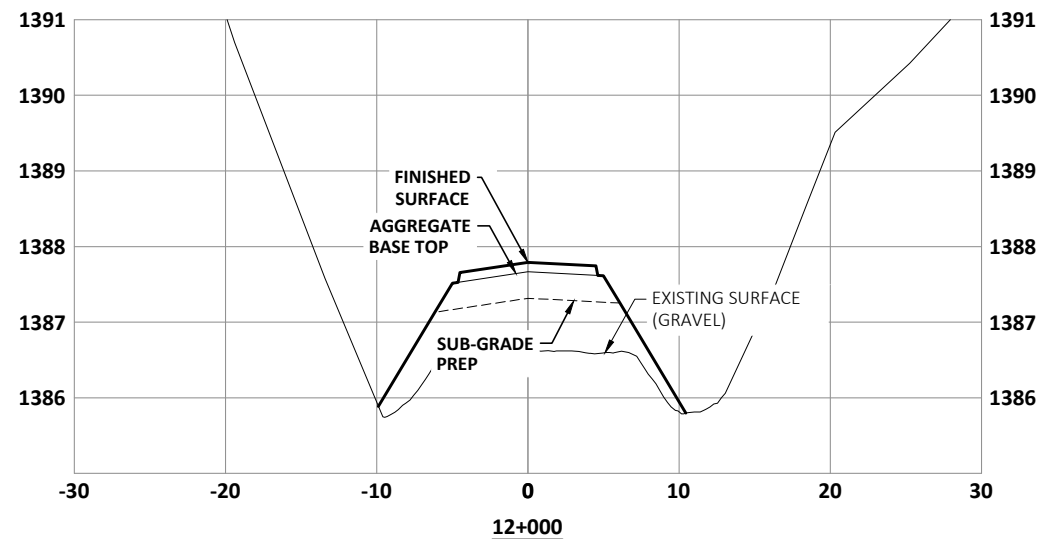
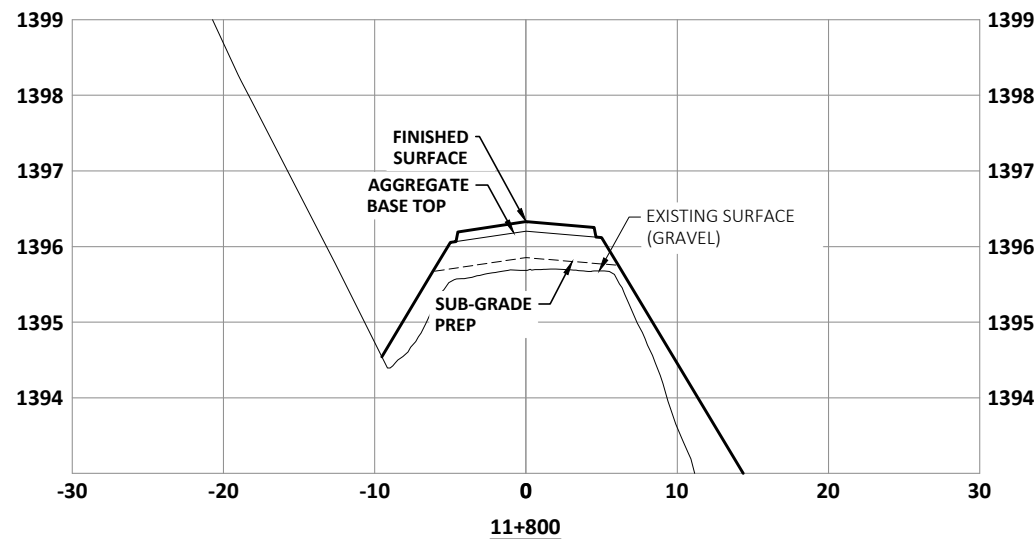
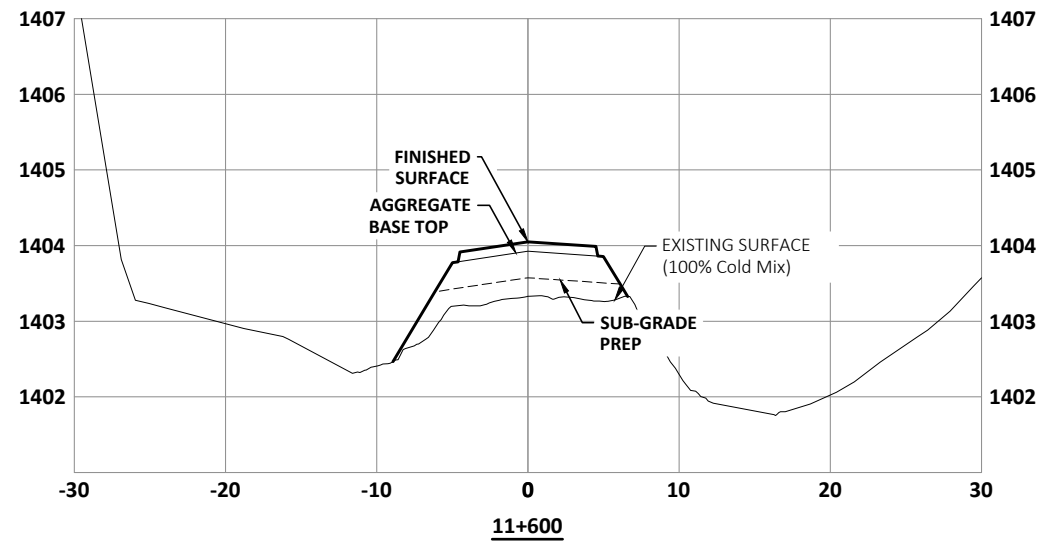
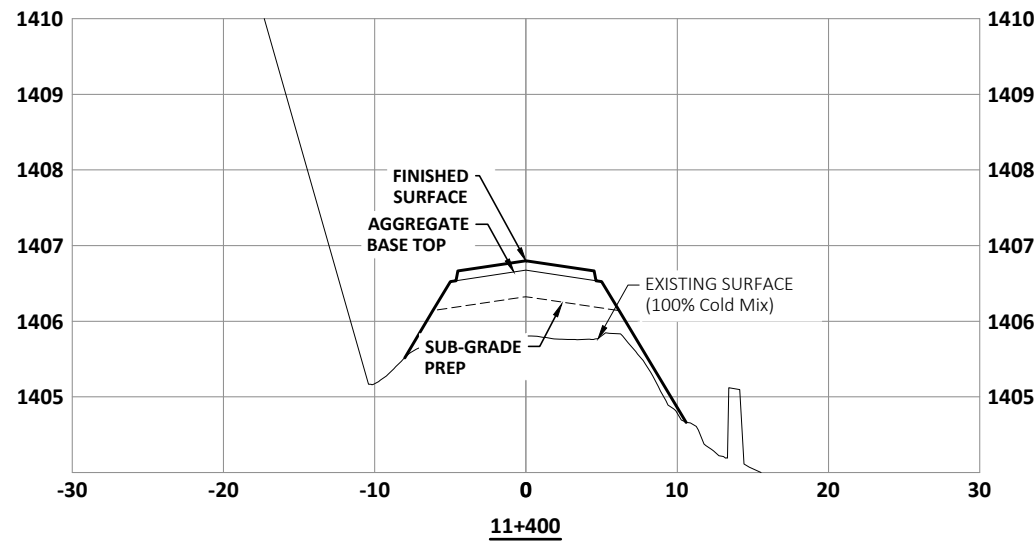
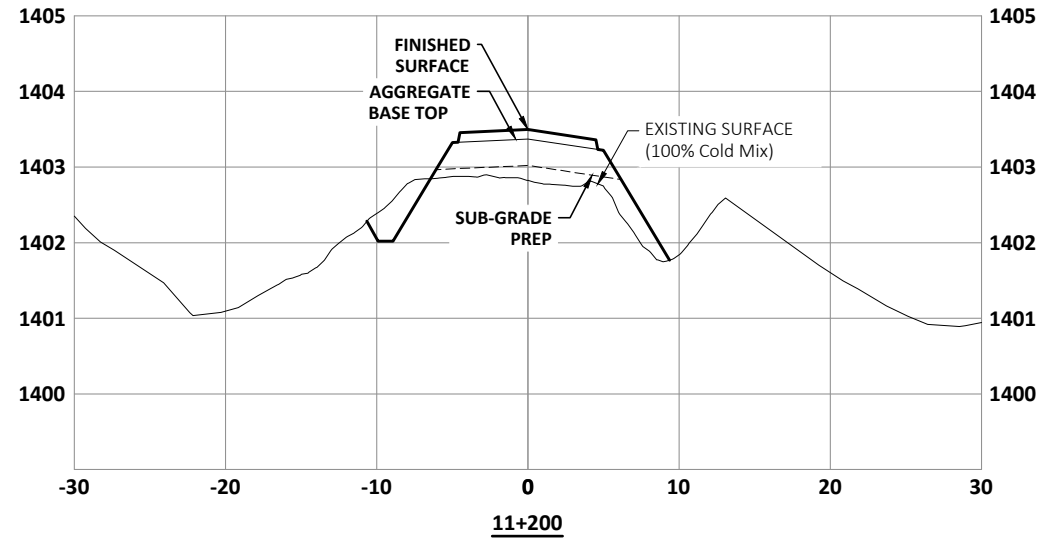
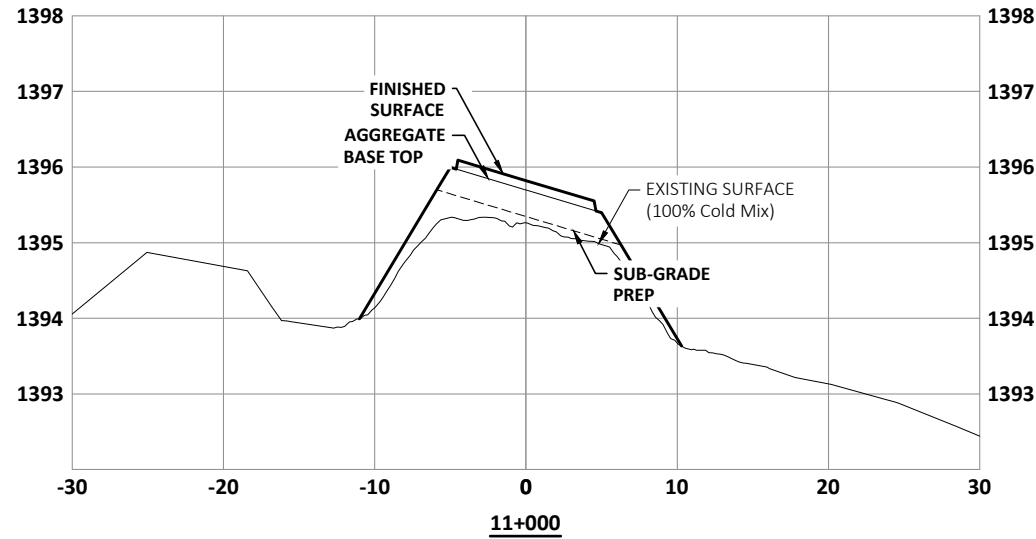
2	25-07-09	ISSUED PRELIMINARY DESIGN
1	25-05-22	FOR PRELIMINARY APPROVAL
ISSUE	YY-MM-DD	REVISION



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**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
**CIVIL**  
**CROSS SECTIONS - STA 9+600 TO 10+800**

DESIGNED	T.D.S, D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:500, V 1:100
DATE	JULY 2025	DRAWING	C2.9



NOTES:  
 1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.

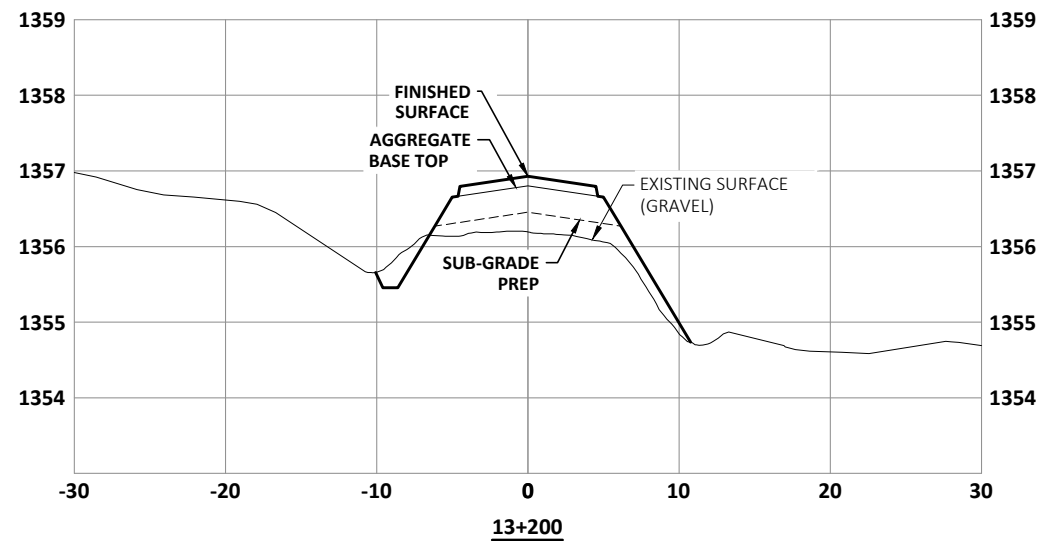
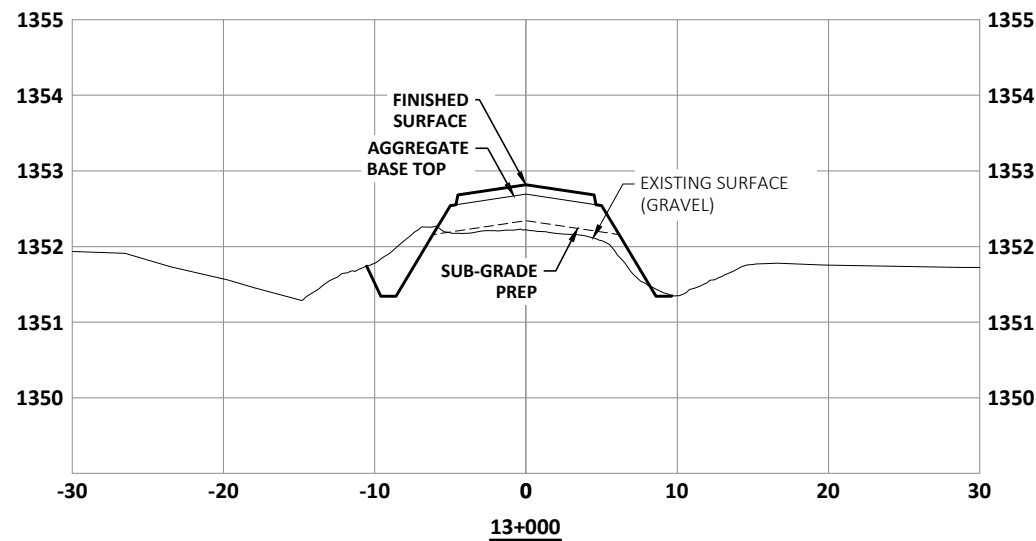
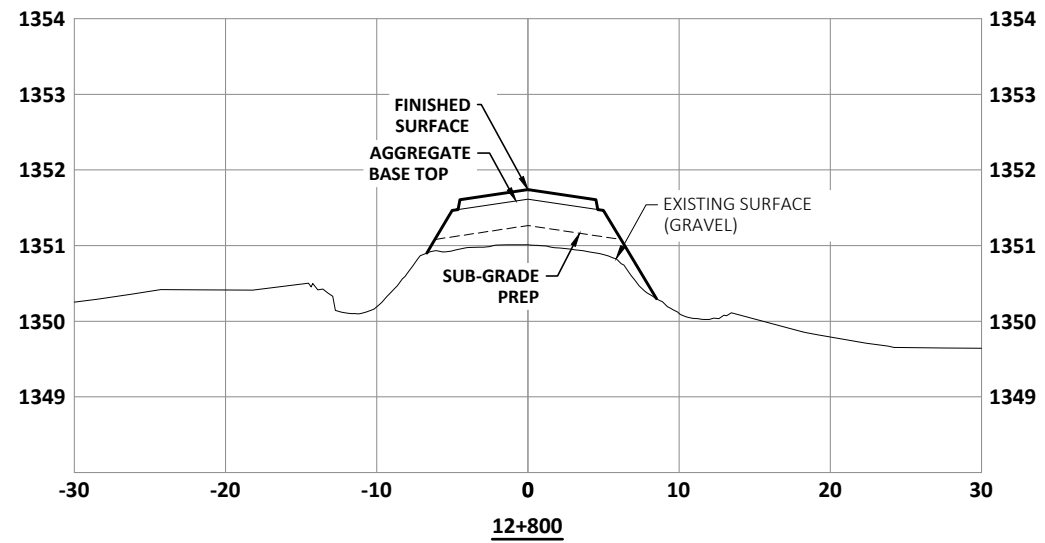
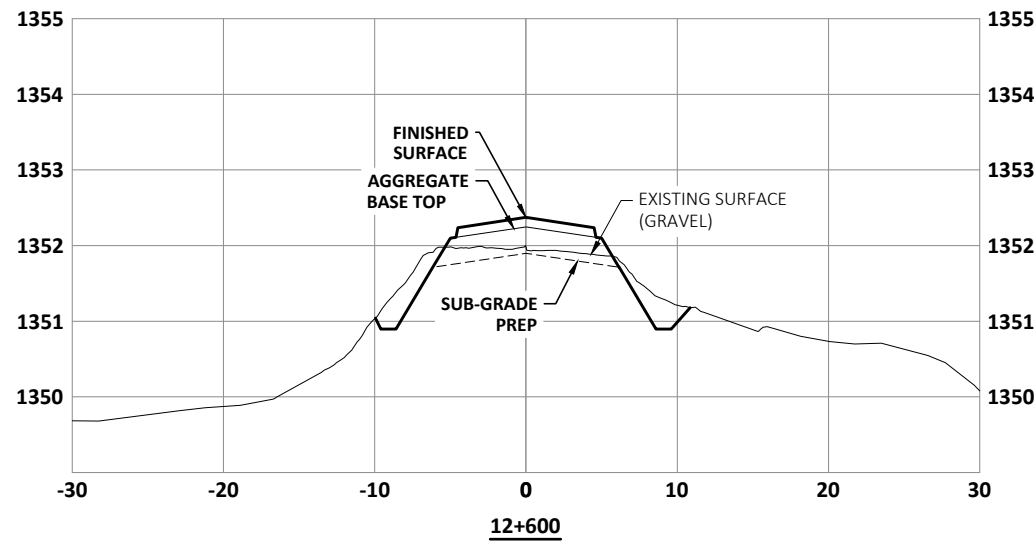
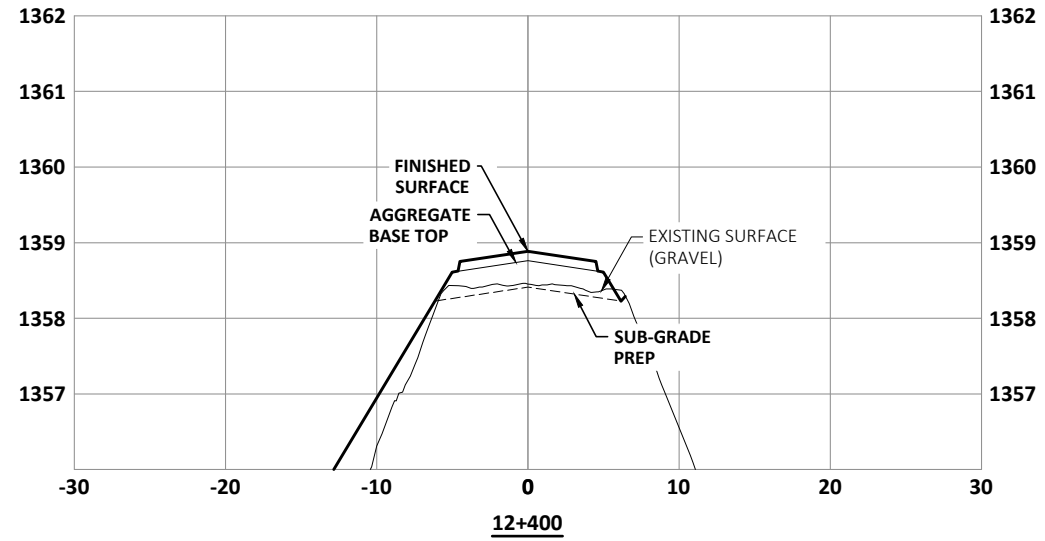
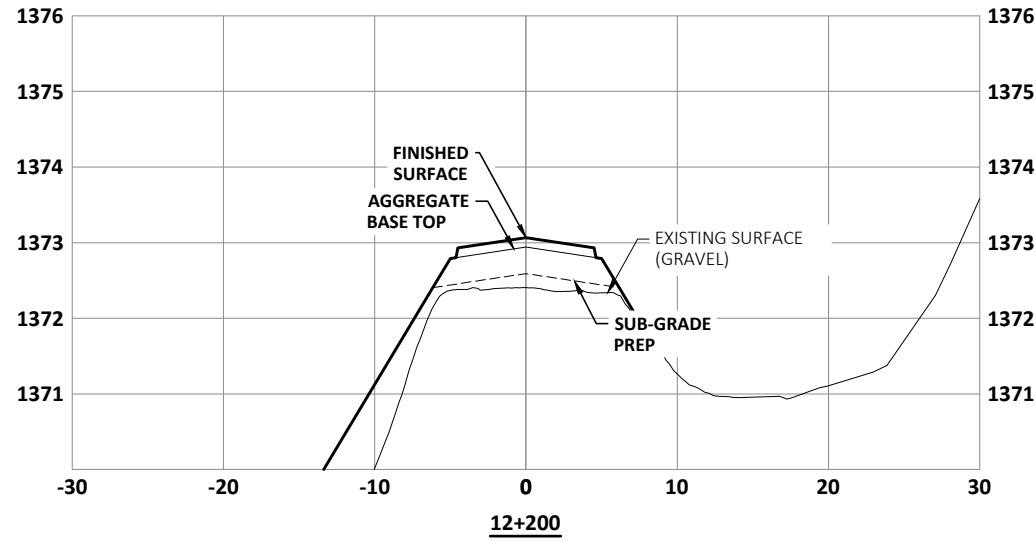
2	25-07-09	ISSUED PRELIMINARY DESIGN
1	25-05-22	FOR PRELIMINARY APPROVAL
ISSUE	YY-MM-DD	REVISION



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**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
**CIVIL**  
**CROSS SECTIONS - STA 10+800 TO 12+000**

DESIGNED	T.D.S, D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:500, V 1:100
DATE	JULY 2025	DRAWING	C2.10



NOTES:  
 1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.

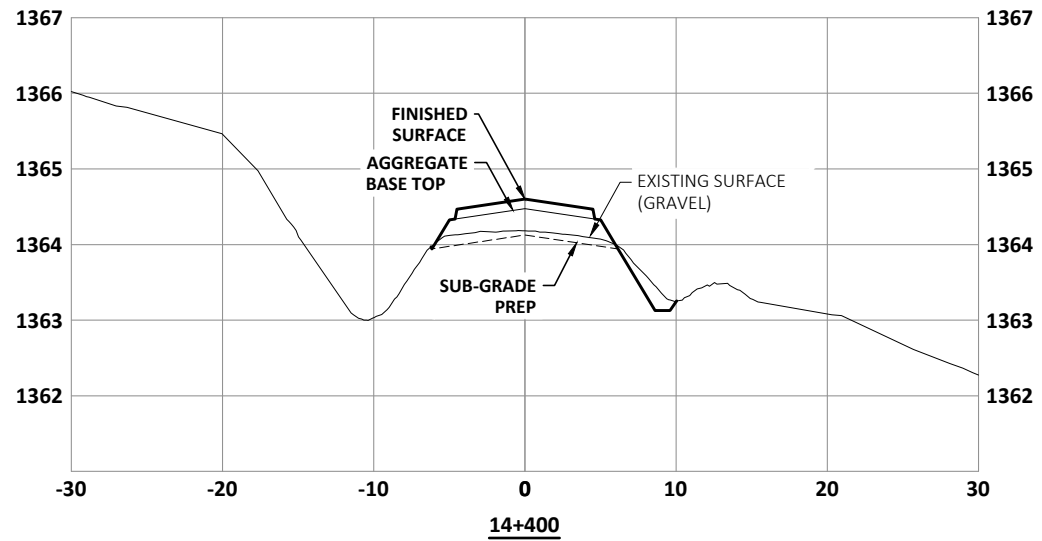
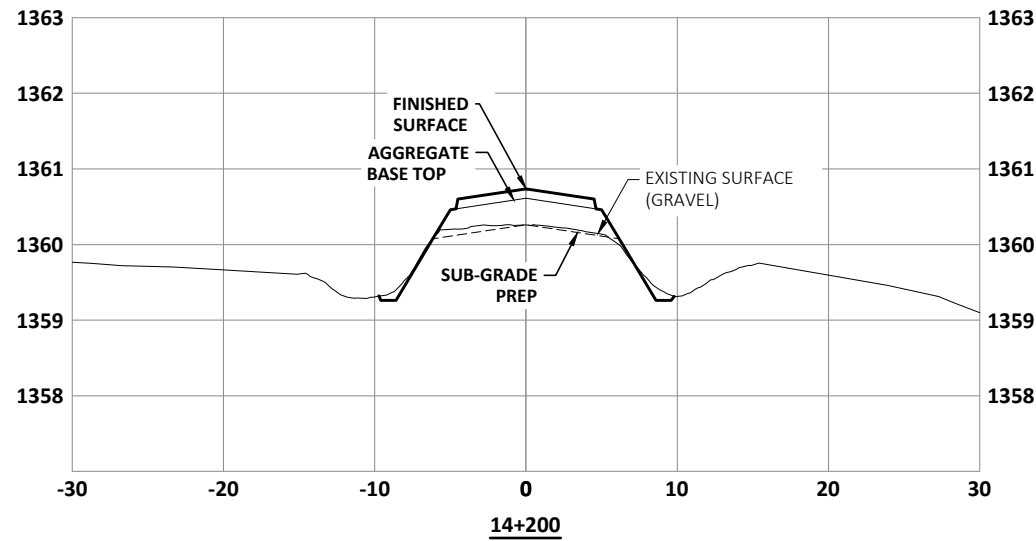
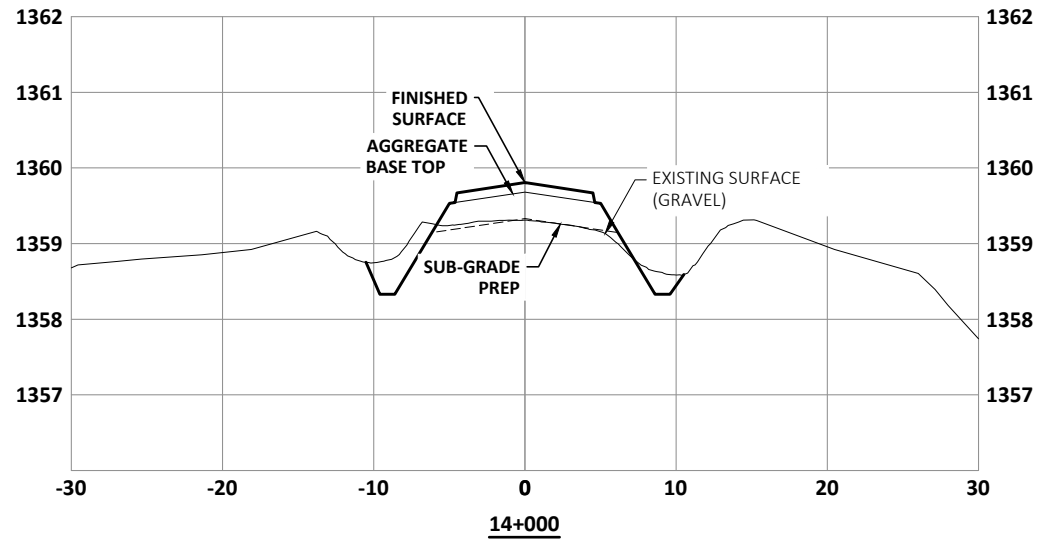
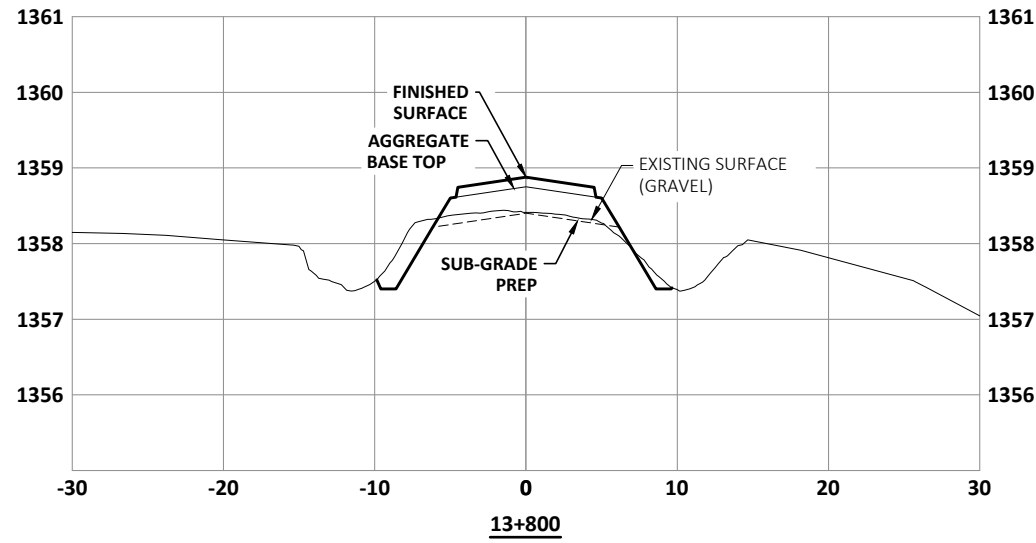
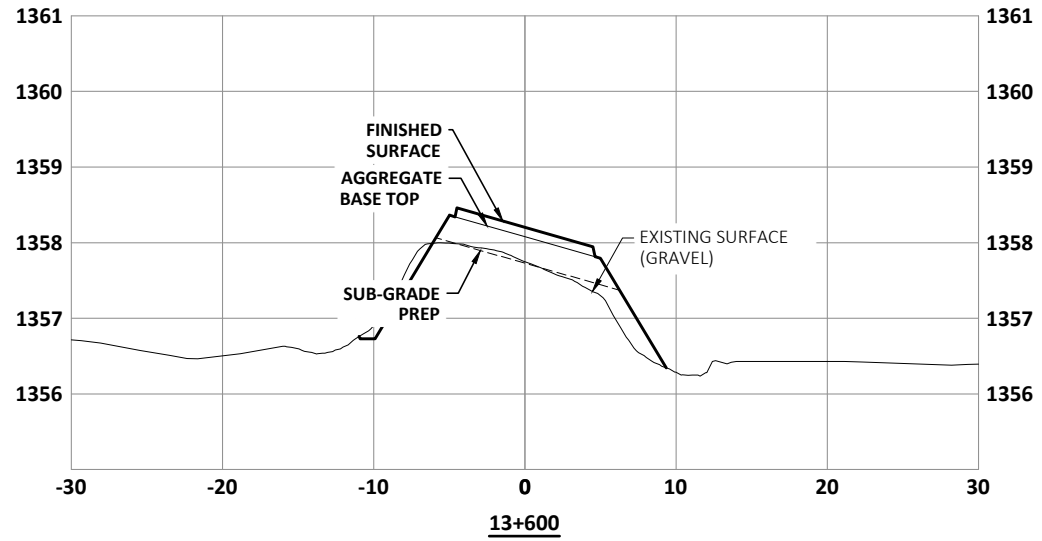
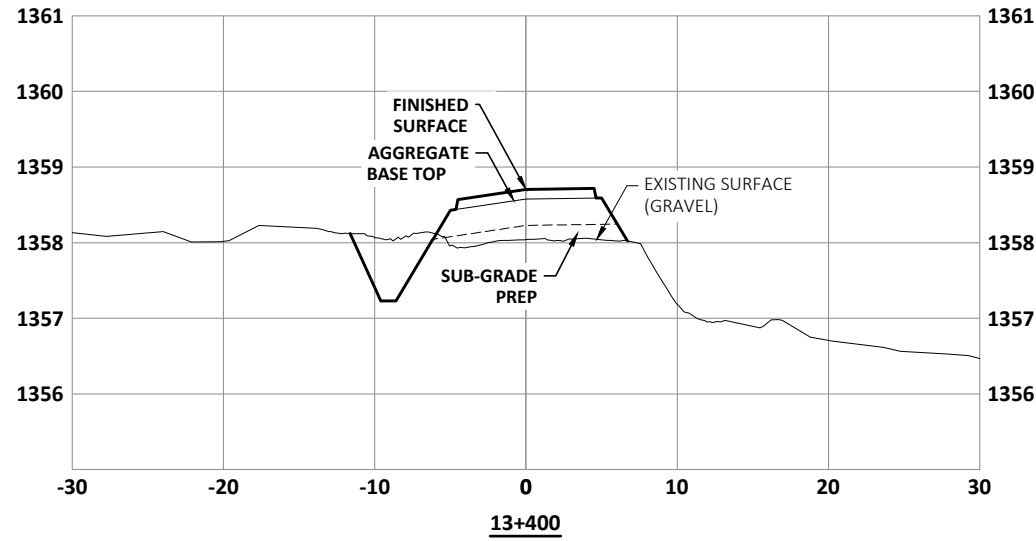
2	25-07-09	ISSUED PRELIMINARY DESIGN
1	25-05-22	FOR PRELIMINARY APPROVAL
ISSUE	YY-MM-DD	REVISION



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**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
**CIVIL**  
**CROSS SECTIONS - STA 12+000 TO 13+200**

DESIGNED	T.D.S., D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:500, V 1:100
DATE	JULY 2025	DRAWING	C2.11



NOTES:  
 1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.

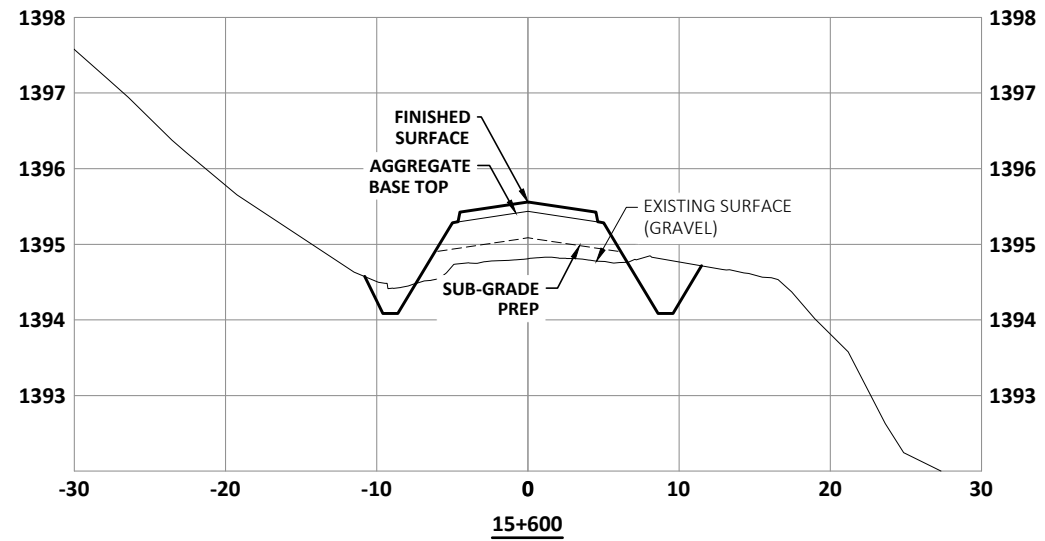
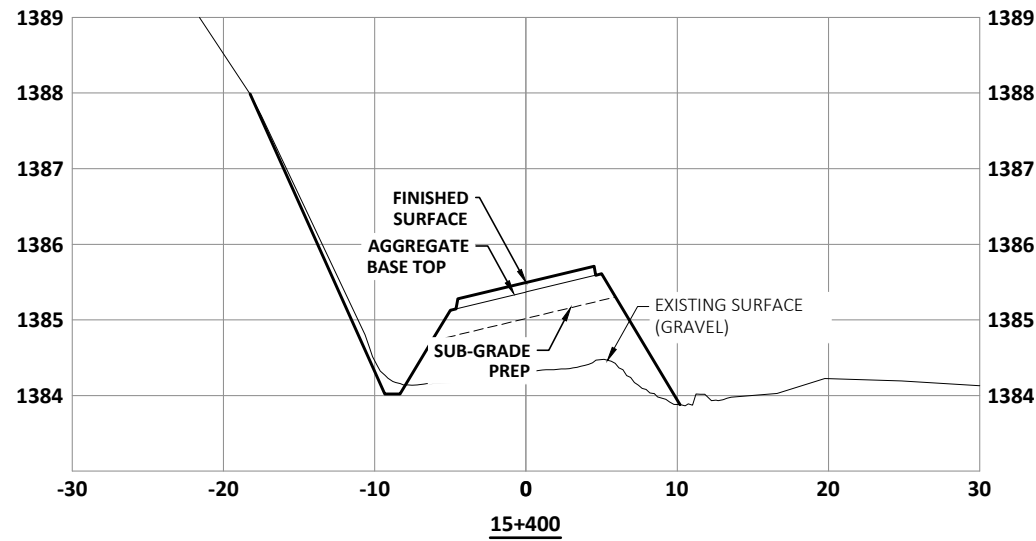
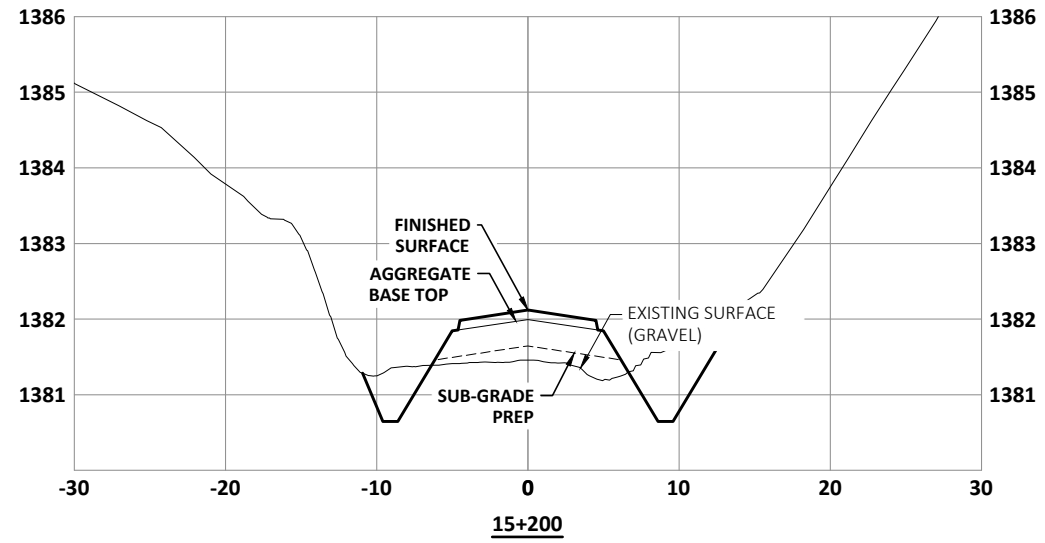
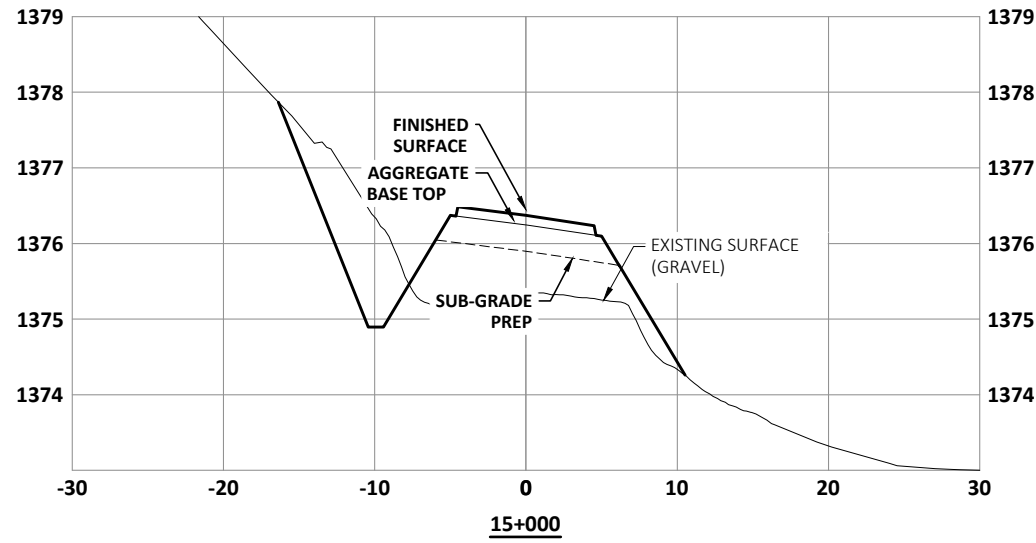
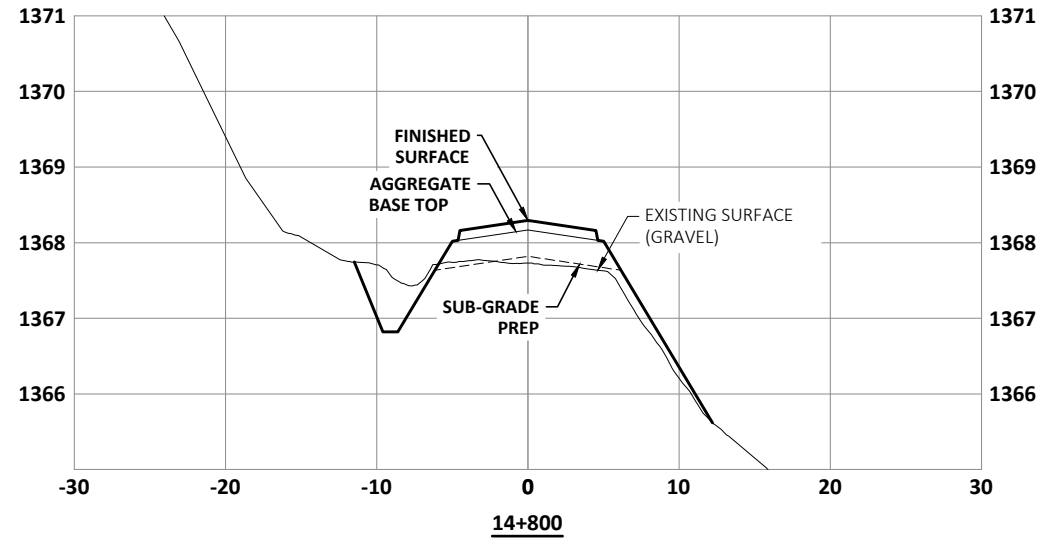
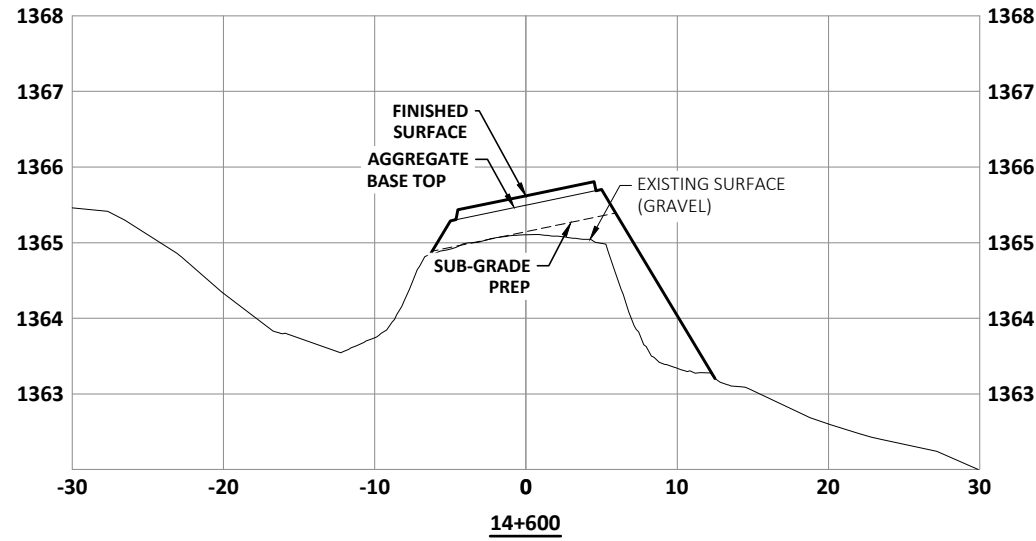
2	25-07-09	ISSUED PRELIMINARY DESIGN
1	25-05-22	FOR PRELIMINARY APPROVAL
ISSUE	YY-MM-DD	REVISION



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**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
**CIVIL**  
**CROSS SECTIONS - STA 13+200 TO 14+400**

DESIGNED	T.D.S, D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:500, V 1:100
DATE	JULY 2025	DRAWING	C2.12



NOTES:  
 1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.

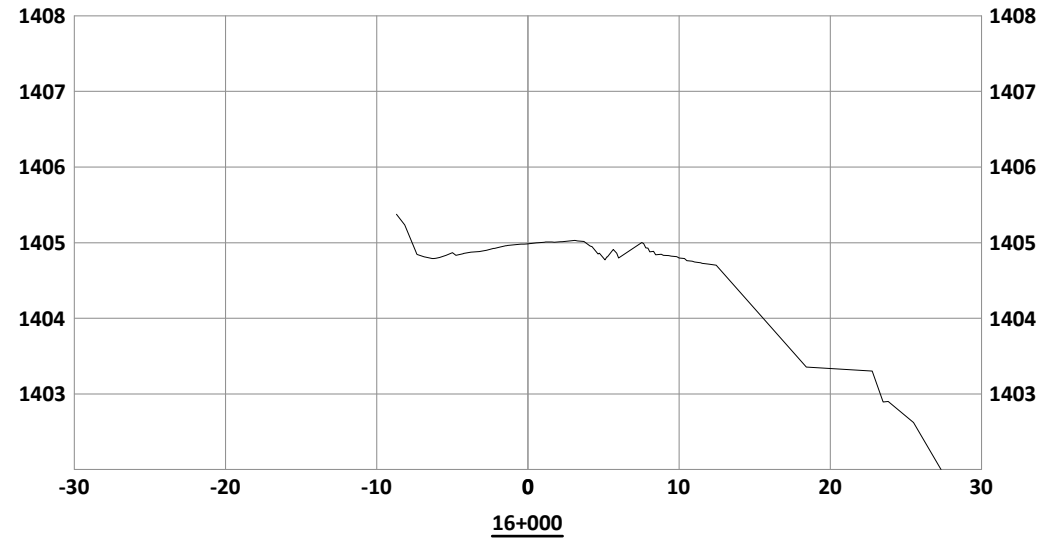
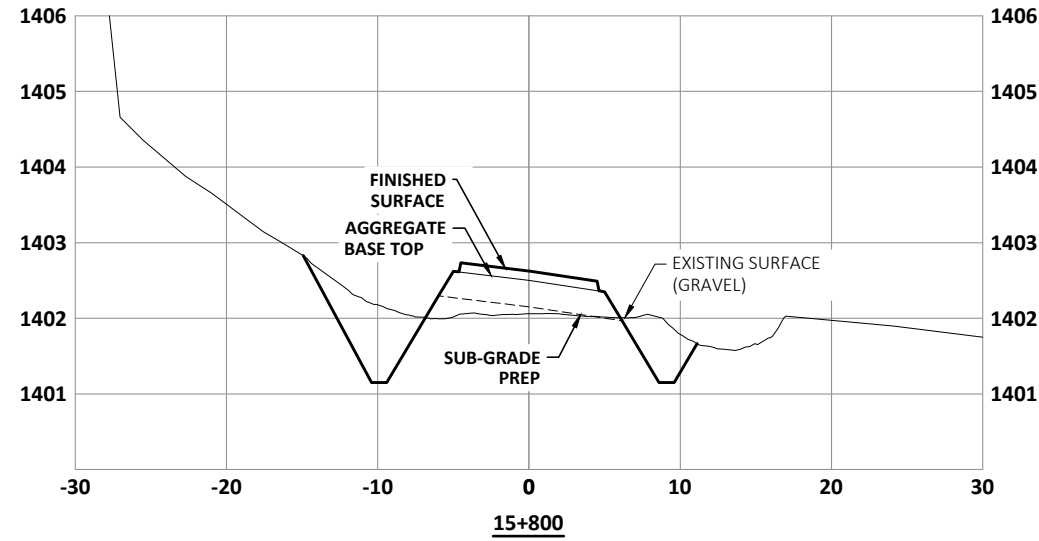
2	25-07-09	ISSUED PRELIMINARY DESIGN
1	25-05-22	FOR PRELIMINARY APPROVAL
ISSUE	YY-MM-DD	REVISION



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**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
**CIVIL**  
**CROSS SECTIONS - STA 14+400 TO 15+600**

DESIGNED	T.D.S, D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:500, V 1:100
DATE	JULY 2025	DRAWING	C2.13



NOTES:  
 1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.

2	25-07-09	ISSUED PRELIMINARY DESIGN
1	25-05-22	FOR PRELIMINARY APPROVAL
ISSUE	YY-MM-DD	REVISION



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**M.D OF PINCHER CREEK**

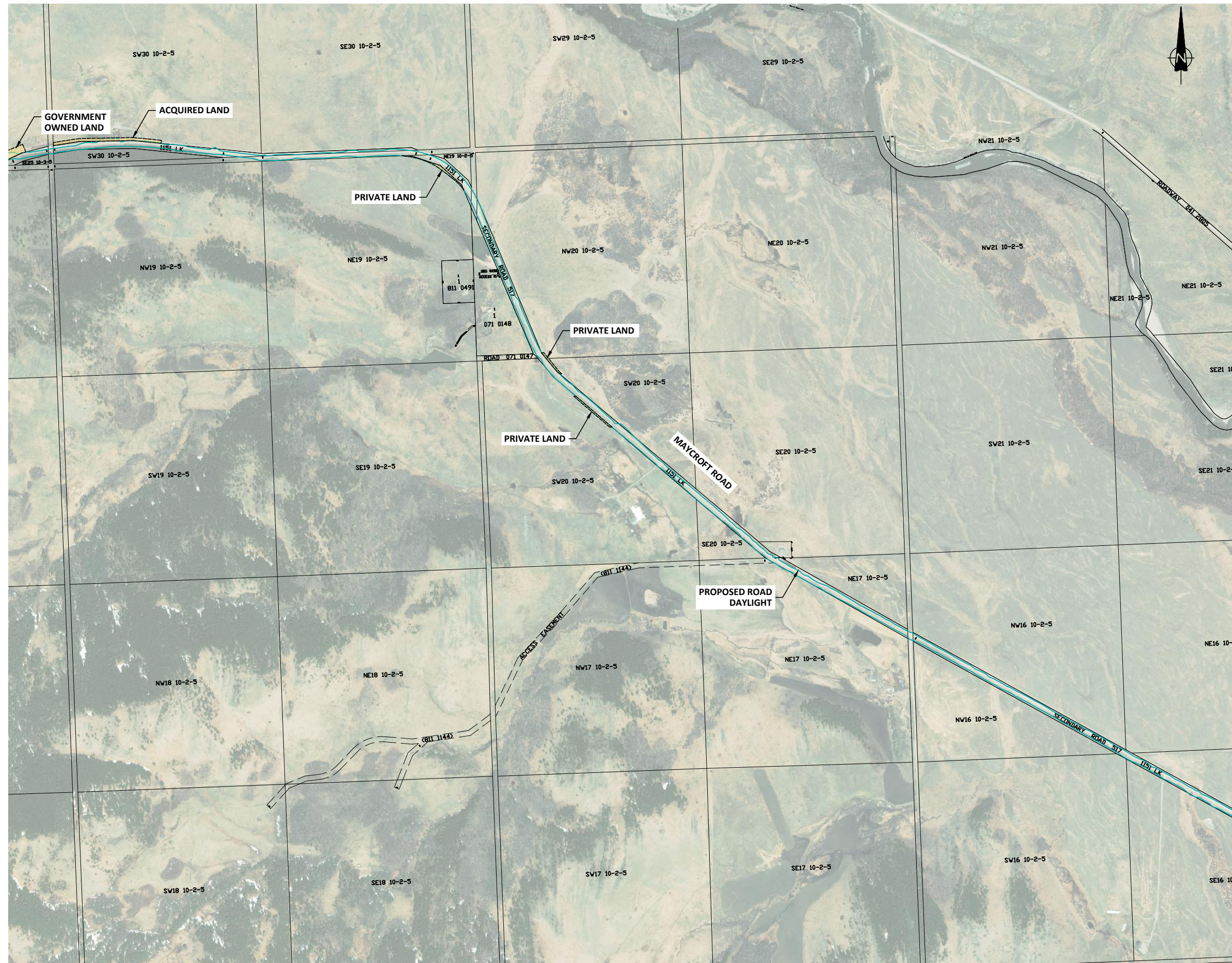
**MAYCROFT ROAD UPGRADES  
 CIVIL  
 CROSS SECTIONS - STA 15+600 TO 16+100**

DESIGNED	T.D.S, D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	H 1:500 , V 1:100
DATE	JULY 2025	DRAWING	C2.14



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- NOTES:
1. FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.
  2. CONTRACTOR TO EXPOSE EXISTING UTILITY LINES BY HYDROVAC EXCAVATION AND CONFIRM ELEVATIONS WHERE CROSSINGS ARE LOCATED IN A EXCAVATION ZONE.

2	25-07-09	ISSUED PRELIMINARY DESIGN
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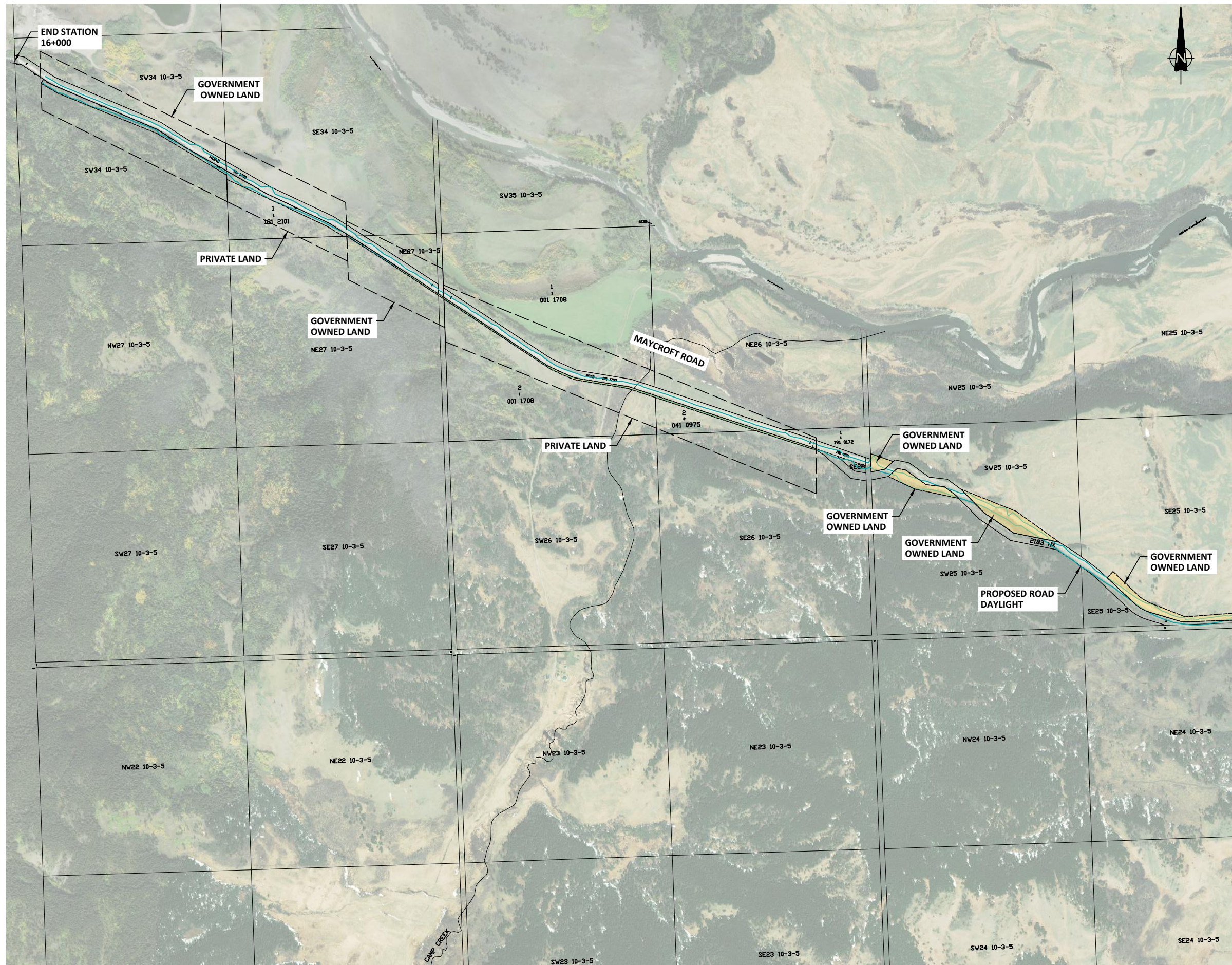


**M.D OF PINCHER CREEK**  
**MAYCROFT ROAD UPGRADES**  
**CIVIL**  
**PROPOSED ROW - 2 OF 3**

DESIGNED	T.D.S, D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	1:15 000
DATE	JULY 2025	DRAWING	C3.1

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- NOTES:**
- FOR INFORMATION REGARDING GENERAL NOTES, UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE LEGEND AND ABBREVIATIONS DRAWINGS.
  - CONTRACTOR TO EXPOSE EXISTING UTILITY LINES BY HYDROVAC EXCAVATION AND CONFIRM ELEVATIONS WHERE CROSSINGS ARE LOCATED IN A EXCAVATION ZONE.
  - TOTAL PRIVATE LAND AREA REQUIRED FOR PROPOSED ROW:
    - STA 0+500 TO 1+175 = 1.41 ACRE (0.57 Ha)
    - STA 2+292 TO 2+822 = 2.12 ACRE (0.86 Ha)
    - STA 2+820 TO 3+440 = 0.82 ACRE (0.33 Ha)
    - STA 3+440 TO 3+970 = 1.45 ACRE (0.59 Ha)
    - STA 3+276 TO 4+043 = 1.78 ACRE (0.72 Ha)
    - STA 7+797 TO 7+990 = 0.26 ACRE (0.11 Ha)
    - STA 8+083 TO 8+200 = 0.19 ACRE (0.08 Ha)
    - STA 8+900 TO 9+186 = 0.30 ACRE (0.12 Ha)
    - STA 12+565 TO 14+140 = 2.47 ACRE (0.99 Ha)
    - STA 14+587 TO 15+112 = 2.14 ACRE (0.86 Ha)

TOTAL = 12.94 ACRE ( 5.23 Ha)
  - PUBLIC (AB GOVERNMENT) OWNED LAND AREA REQUIRED FOR PROPOSED ROW:
    - STA 10+654 TO 11+330 = 4.79 ACRE ( 1.94 Ha)
    - STA 11+561 TO 11+987 = 4.57 ACRE ( 1.85 Ha)
    - STA 11+986 TO 12+269 = 2.24 ACRE ( 0.90 Ha)
    - STA 12+270 TO 12+362 = 0.90 ACRE ( 0.37 Ha)
    - STA 14+140 TO 14+587 = 0.63 ACRE ( 0.25 Ha)
    - STA 15+112 TO 15+901 = 3.11 ACRE ( 1.26 Ha)

TOTAL = 16.24 ACRE ( 6.57 Ha)
  - ALREADY ACQUIRED TOTAL LAND AREA:
    - STA 1+194 TO 1+454 = 0.94 ACRE ( 0.38 Ha)
    - STA 1+495 TO 1+780 = 1.16 ACRE ( 0.48 Ha)
    - STA 10+130 TO 10+544 = 1.23 ACRE ( 0.50 Ha)

TOTAL = 3.33 ACRE ( 1.36 Ha)

2	25-07-09	ISSUED PRELIMINARY DESIGN
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**M.D OF PINCHER CREEK**

**MAYCROFT ROAD UPGRADES**

**CIVIL**

**PROPOSED ROW - 3 OF 3**

DESIGNED	T.D.S, D.P	JOB	1770-031-00
DRAWN	D.P	SCALE	1:15 000
DATE	JULY 2025	DRAWING	C3.2