



Ministry of  
Transportation  
and Infrastructure

PROJECT NO. 24913-0001

TRANS-CANADA HIGHWAY No. 1  
FORD ROAD TO TAPPEN VALLEY ROAD  
WHITE CREEK CULVERT  
SUGGESTED CONSTRUCTION STAGING

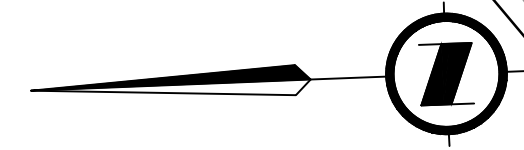
**NOTE TO CONTRACTOR:**

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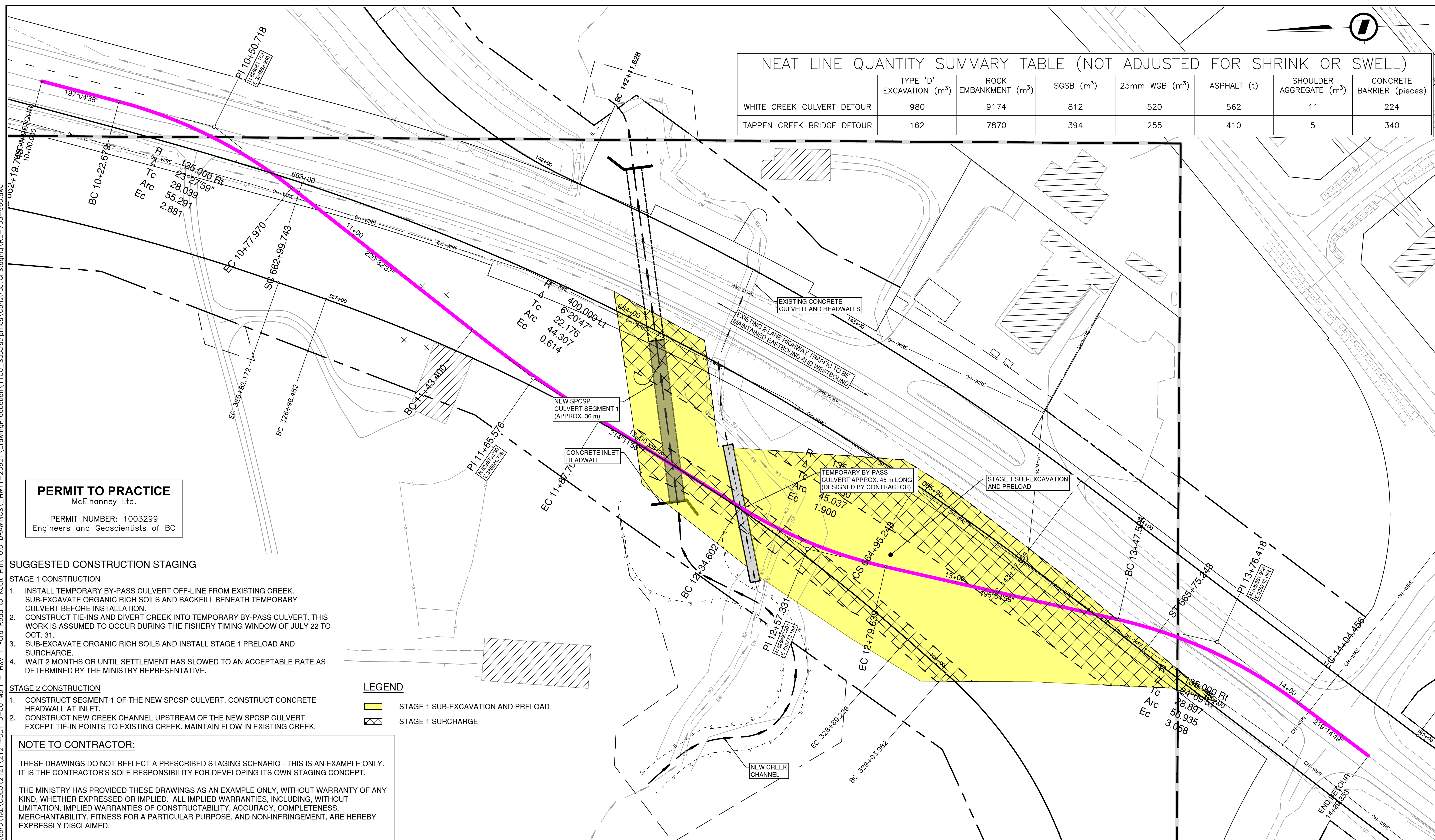
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**FEBRUARY 14, 2023**



NEAT LINE QUANTITY SUMMARY TABLE (NOT ADJUSTED FOR SHRINK OR SWELL)							
	TYPE 'D' EXCAVATION (m <sup>3</sup> )	ROCK EMBANKMENT (m <sup>3</sup> )	SGSB (m <sup>3</sup> )	25mm WGB (m <sup>3</sup> )	ASPHALT (t)	SHOULDER AGGREGATE (m <sup>3</sup> )	CONCRETE BARRIER (pieces)
WHITE CREEK CULVERT DETOUR	980	9174	812	520	562	11	224
TAPPEN CREEK BRIDGE DETOUR	162	7870	394	255	410	5	340



**PERMIT TO PRACTICE**  
McElhanney Ltd.  
PERMIT NUMBER: 1003299  
Engineers and Geoscientists of BC

- SUGGESTED CONSTRUCTION STAGING**
- STAGE 1 CONSTRUCTION**
1. INSTALL TEMPORARY BY-PASS CULVERT OFF-LINE FROM EXISTING CREEK. SUB-EXCAVATE ORGANIC RICH SOILS AND BACKFILL BENEATH TEMPORARY CULVERT BEFORE INSTALLATION.
  2. CONSTRUCT TIE-INS AND DIVERT CREEK INTO TEMPORARY BY-PASS CULVERT. THIS WORK IS ASSUMED TO OCCUR DURING THE FISHERY TIMING WINDOW OF JULY 22 TO OCT. 31.
  3. SUB-EXCAVATE ORGANIC RICH SOILS AND INSTALL STAGE 1 PRELOAD AND SURCHARGE.
  4. WAIT 2 MONTHS OR UNTIL SETTLEMENT HAS SLOWED TO AN ACCEPTABLE RATE AS DETERMINED BY THE MINISTRY REPRESENTATIVE.
- STAGE 2 CONSTRUCTION**
1. CONSTRUCT SEGMENT 1 OF THE NEW SPCSP CULVERT. CONSTRUCT CONCRETE HEADWALL AT INLET.
  2. CONSTRUCT NEW CREEK CHANNEL UPSTREAM OF THE NEW SPCSP CULVERT EXCEPT TIE-IN POINTS TO EXISTING CREEK. MAINTAIN FLOW IN EXISTING CREEK.

**LEGEND**

	STAGE 1 SUB-EXCAVATION AND PRELOAD
	STAGE 1 SURCHARGE

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SCALE		CAD FILENAME: R2-735-960	
		PLOT DATE: 1/24/2023	
REV	DATE	REVISIONS	NAME

**MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE**  
 SOUTHERN INTERIOR REGION  
 HIGHWAY ENGINEERING AND GEOMATICS

DESIGNED: A. WARNER DATE: 2023-01-27  
 QUALITY CONTROL: P. YATES DATE: 2023-01-27  
 QUALITY ASSURANCE: S. PIRILLO DATE: 2023-01-27  
 DRAWN: A. WARNER DATE: 2023-01-27

SENIOR DESIGNER: \_\_\_\_\_  
DATE: \_\_\_\_\_

**SUGGESTED CONSTRUCTION STAGING - STAGES 1 AND 2**

TRANS-CANADA HIGHWAY No. 1  
FORD ROAD TO TAPPEN VALLEY ROAD  
WHITE CREEK CULVERT AT TRANS-CANADA HIGHWAY No. 1

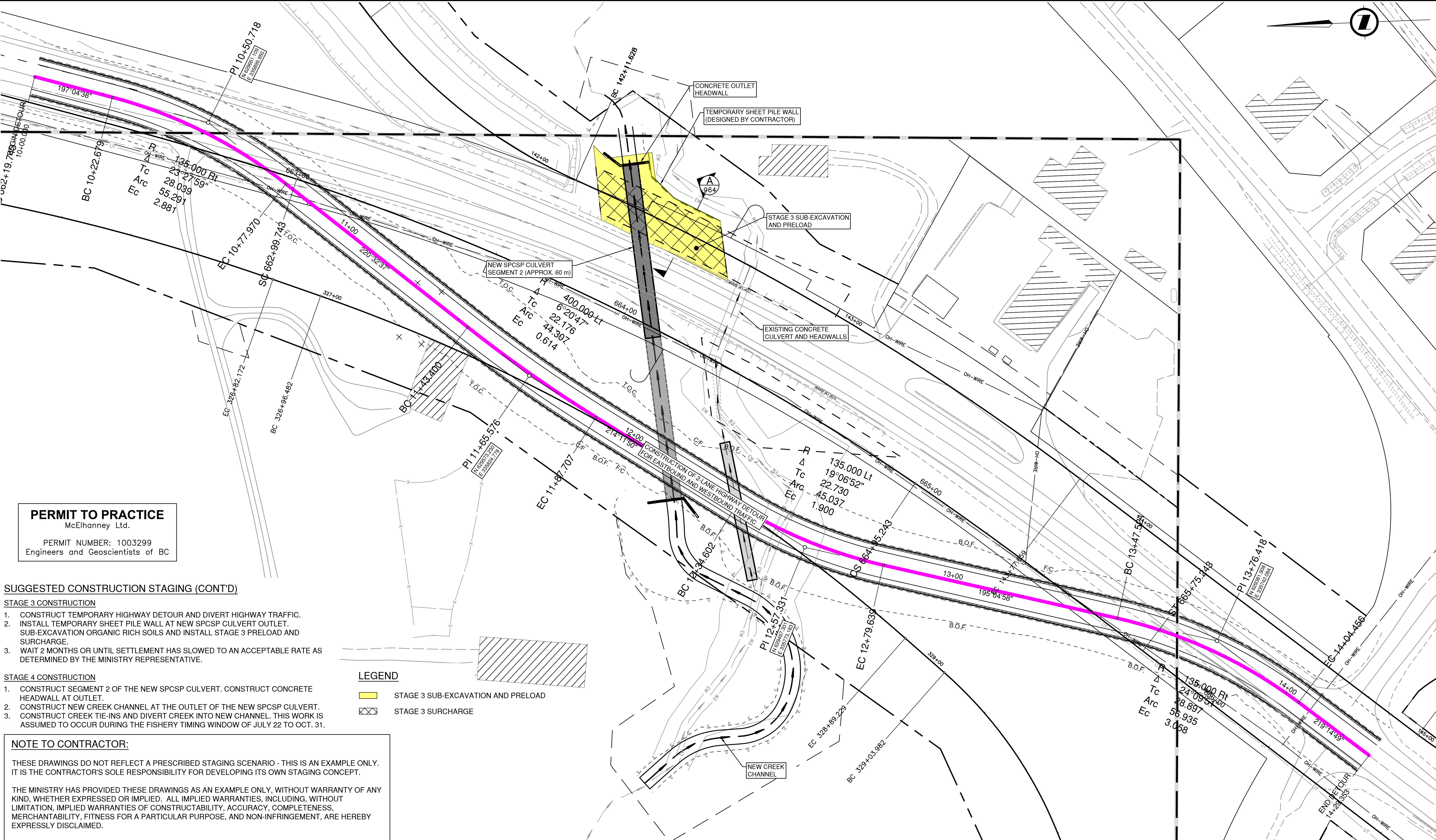
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2121-00113-00	24913-0001	2	R2-735-961	

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DESIGN SPEED 60 km/h

**McElhanney**  
 Suite 200  
 658 Beatty Street  
 Vancouver BC  
 Canada V6B 1C1  
 T 604 683 8521

PLOT DATE: 2023/01/24 \\corp\tal\colog\2121\2121-00113-00 MoTI - Hwy 1 Ford Road to Kautl Hill\10.0 DRAWINGS\HWY1-23621\DrawingProduction\1100\_Subdisciplines\Construction\Staging\R2-735-960.dwg



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Engineers and Geoscientists of BC

- SUGGESTED CONSTRUCTION STAGING (CONT'D)**
- STAGE 3 CONSTRUCTION**
1. CONSTRUCT TEMPORARY HIGHWAY DETOUR AND DIVERT HIGHWAY TRAFFIC.
  2. INSTALL TEMPORARY SHEET PILE WALL AT NEW SPCSP CULVERT OUTLET. SUB-EXCAVATION ORGANIC RICH SOILS AND INSTALL STAGE 3 PRELOAD AND SURCHARGE.
  3. WAIT 2 MONTHS OR UNTIL SETTLEMENT HAS SLOWED TO AN ACCEPTABLE RATE AS DETERMINED BY THE MINISTRY REPRESENTATIVE.
- STAGE 4 CONSTRUCTION**
1. CONSTRUCT SEGMENT 2 OF THE NEW SPCSP CULVERT. CONSTRUCT CONCRETE HEADWALL AT OUTLET.
  2. CONSTRUCT NEW CREEK CHANNEL AT THE OUTLET OF THE NEW SPCSP CULVERT.
  3. CONSTRUCT CREEK TIE-INS AND DIVERT CREEK INTO NEW CHANNEL. THIS WORK IS ASSUMED TO OCCUR DURING THE FISHERY TIMING WINDOW OF JULY 22 TO OCT. 31.

**LEGEND**

- STAGE 3 SUB-EXCAVATION AND PRELOAD
- STAGE 3 SURCHARGE

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**McElhanney**

Suite 200  
658 Beatty Street  
Vancouver BC  
Canada V6B 1C1  
T 604 683 8521

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		PLOT DATE: 1/24/2023
REV	DATE	REVISIONS

**BRITISH COLUMBIA**

MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE  
SOUTHERN INTERIOR REGION  
HIGHWAY ENGINEERING AND GEOMATICS

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QUALITY CONTROL: P. YATES DATE: 2023-01-27  
QUALITY ASSURANCE: S. PIRILLO DATE: 2023-01-27  
DRAWN: A. WARNER DATE: 2023-01-27

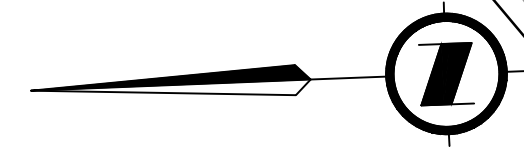
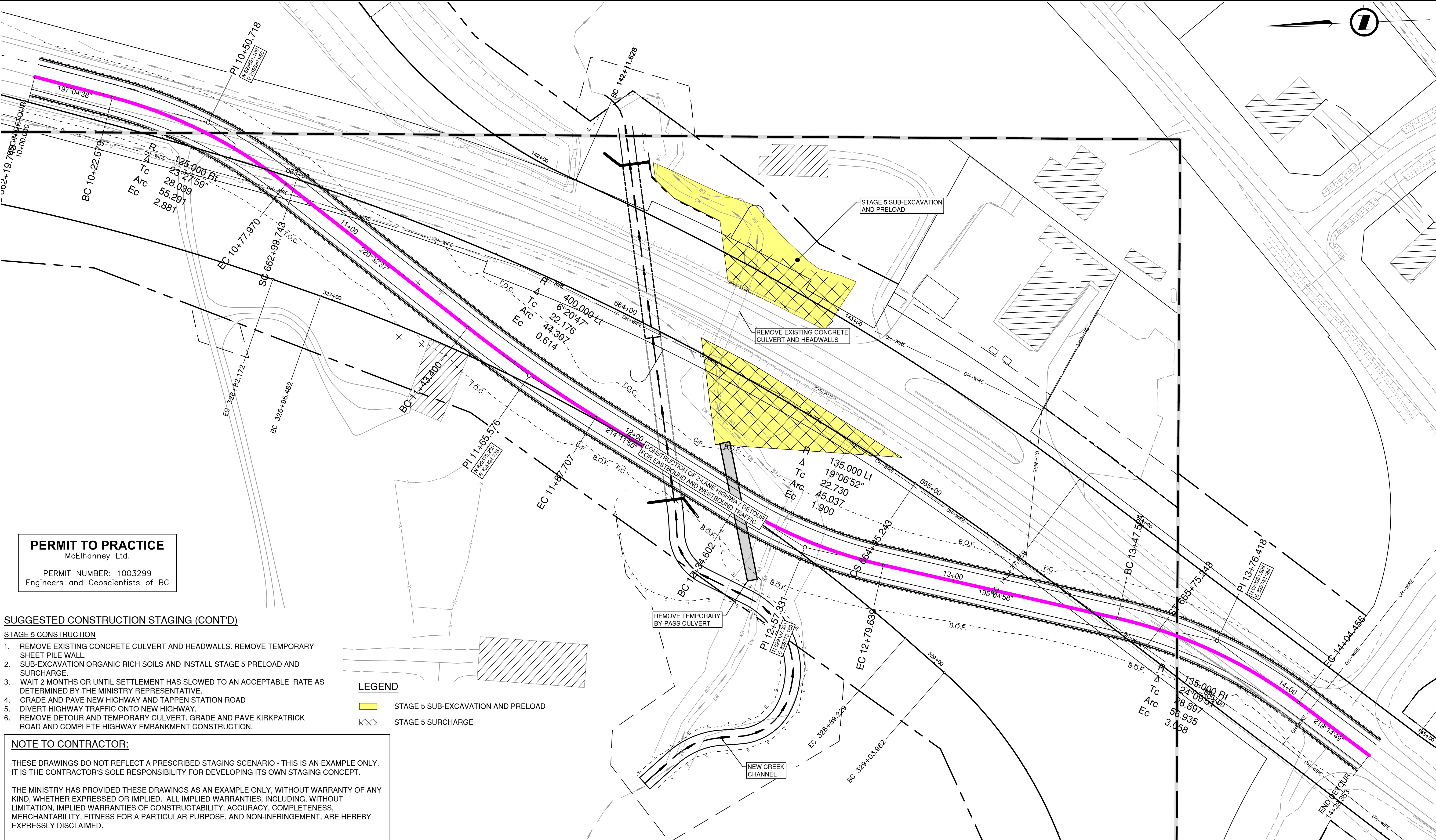
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DATE: \_\_\_\_\_

**SUGGESTED CONSTRUCTION STAGING - STAGES 3 AND 4**

TRANS-CANADA HIGHWAY No. 1  
FORD ROAD TO TAPPEN VALLEY ROAD  
WHITE CREEK CULVERT AT TRANS-CANADA HIGHWAY No. 1

FILE NUMBER	PROJECT NUMBER	REV	DRAWING NUMBER	REV
2121-00113-00	24913-0001	2	R2-735-962	

PLOT DATE: 2023/01/24 \\corp\tal\colog\2121\2121-00113-00 MoIt - Hwy 1 Ford Road to Kault Hill\10.0 DRAWINGS\HWY1-23621\DrawingProduction\1100\_Subdisciplines\Construction\Staging\R2-735-960.dwg



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McElhanney Ltd.  
PERMIT NUMBER: 1003299  
Engineers and Geoscientists of BC

**SUGGESTED CONSTRUCTION STAGING (CONT'D)**

- STAGE 5 CONSTRUCTION**
1. REMOVE EXISTING CONCRETE CULVERT AND HEADWALLS. REMOVE TEMPORARY SHEET PILE WALL.
  2. SUB-EXCAVATION ORGANIC RICH SOILS AND INSTALL STAGE 5 PRELOAD AND SURCHARGE.
  3. WAIT 2 MONTHS OR UNTIL SETTLEMENT HAS SLOWED TO AN ACCEPTABLE RATE AS DETERMINED BY THE MINISTRY REPRESENTATIVE.
  4. GRADE AND PAVE NEW HIGHWAY AND TAPPEN STATION ROAD
  5. DIVERT HIGHWAY TRAFFIC ONTO NEW HIGHWAY.
  6. REMOVE DETOUR AND TEMPORARY CULVERT. GRADE AND PAVE KIRKPATRICK ROAD AND COMPLETE HIGHWAY EMBANKMENT CONSTRUCTION.

**LEGEND**

	STAGE 5 SUB-EXCAVATION AND PRELOAD
	STAGE 5 SURCHARGE

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		PLOT DATE	1/24/2023
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QUALITY ASSURANCE: S. PIRILLO DATE: 2023-01-27  
DRAWN: A. WARNER DATE: 2023-01-27

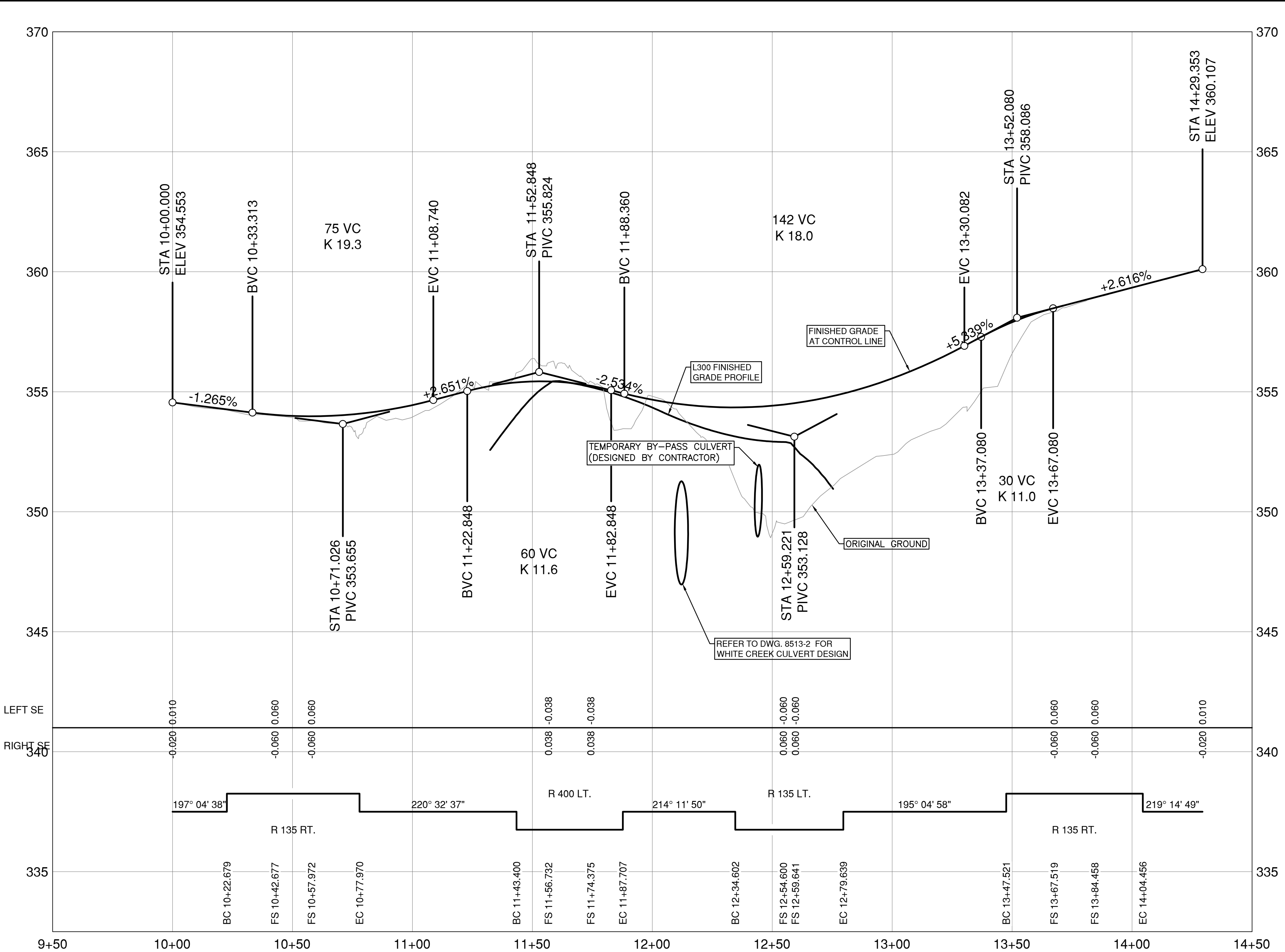
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DATE: \_\_\_\_\_

**SUGGESTED CONSTRUCTION STAGING - STAGE 5**

TRANS-CANADA HIGHWAY No. 1  
FORD ROAD TO TAPPEN VALLEY ROAD  
WHITE CREEK CULVERT AT TRANS-CANADA HIGHWAY No. 1

FILE NUMBER	PROJECT NUMBER	REG	DRAWING NUMBER	REV
2121-00113-00	24913-0001	2	R2-735-963	

PLOT DATE: 2023/01/24 \\corp\tal\cld\2121\2121-00113-00 MeTI - Hwy 1 Ford Road to Kault Hill\10.0 DRAWINGS\HWY1-23621\DrawingProduction\1100\_Subdisciplines\Construction\Staging\R2-735-960.dwg

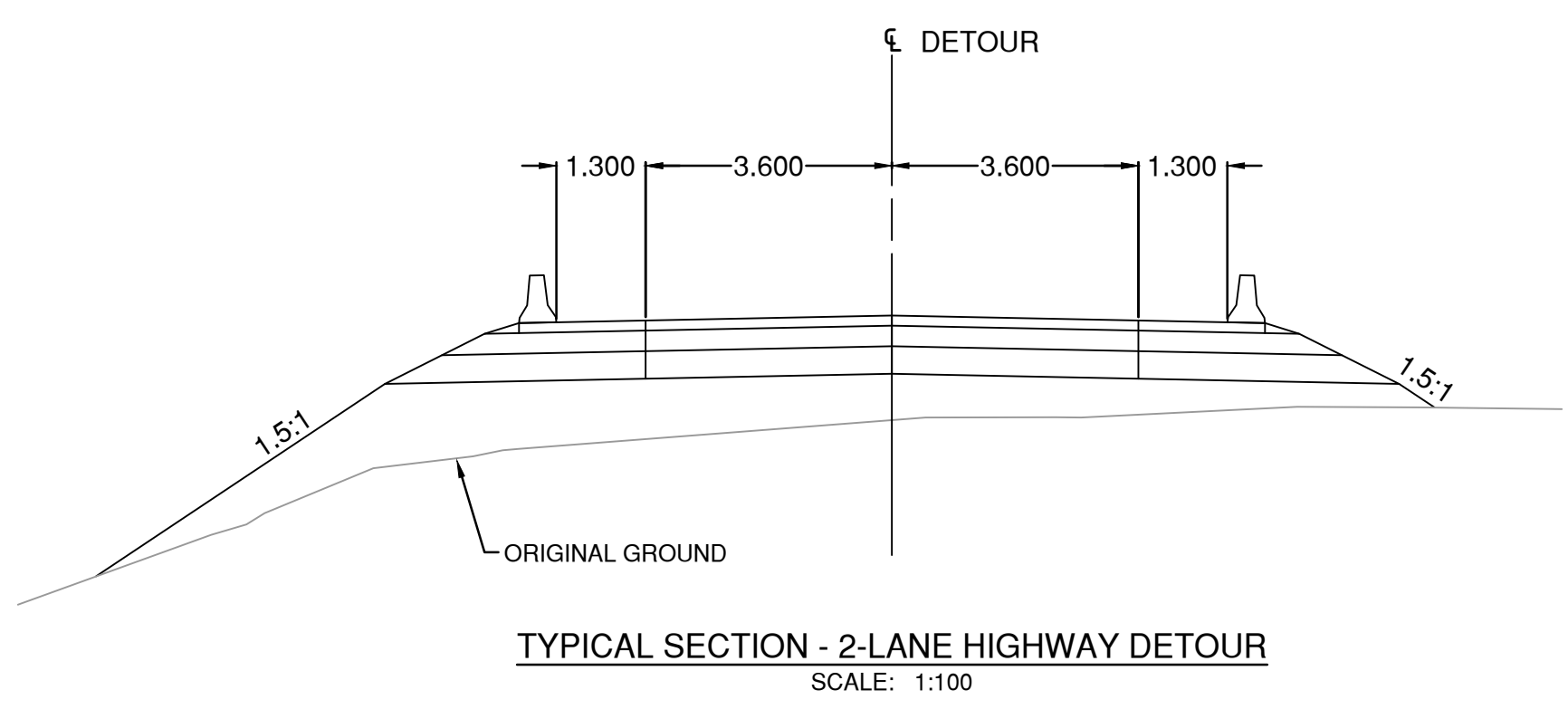


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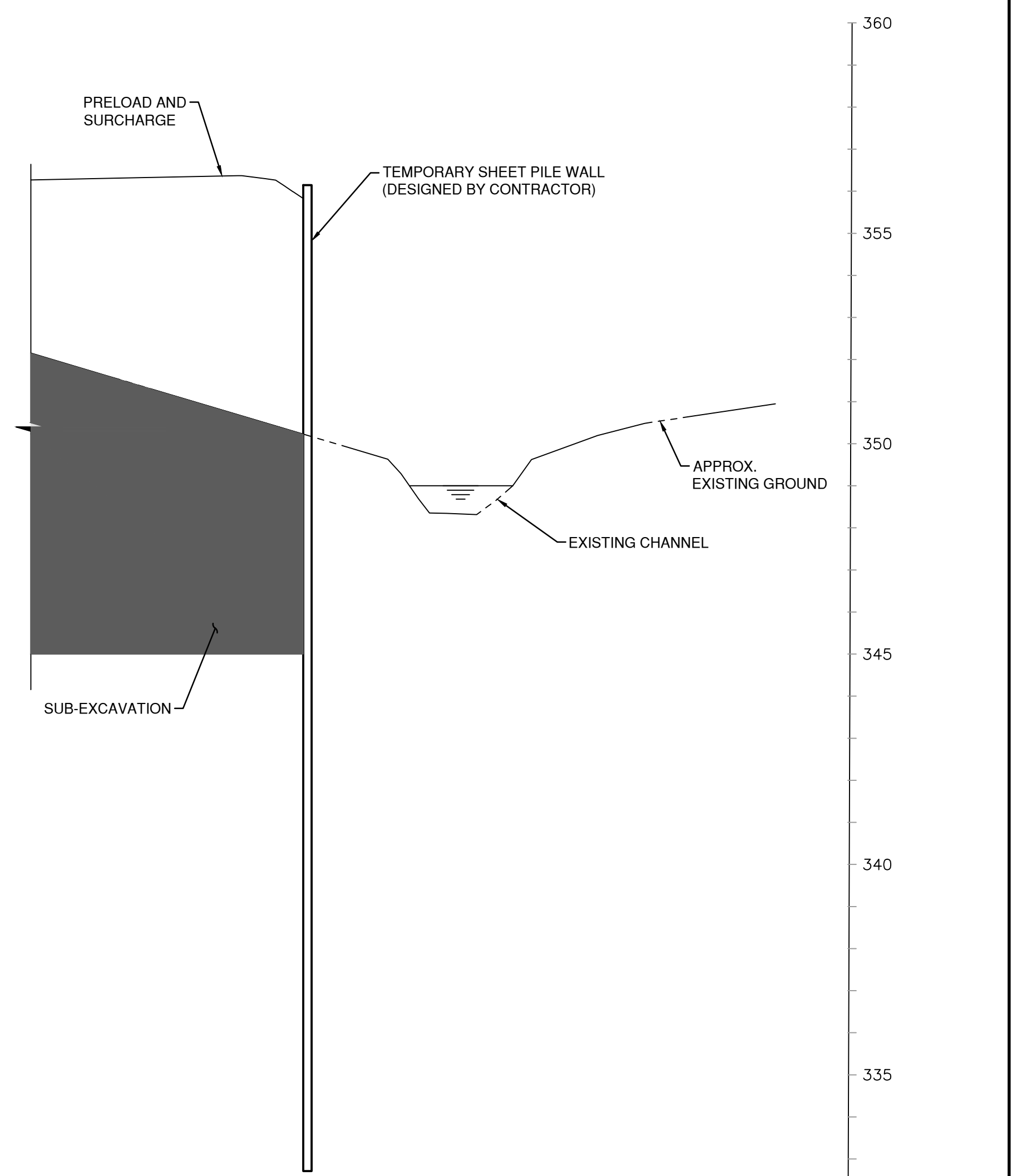
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DESIGN SPEED 60 km/h



**TEMPORARY SHEET PILE WALL**  
SECTION A  
SCALE: 1:100

**PERMIT TO PRACTICE**  
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Engineers and Geoscientists of BC

REV	DATE	REVISIONS	NAME

MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE  
SOUTHERN INTERIOR REGION  
HIGHWAY ENGINEERING AND GEOMATICS

**SUGGESTED CONSTRUCTION DETOUR PROFILE**

TRANS-CANADA HIGHWAY No. 1  
FORD ROAD TO TAPPEN VALLEY ROAD  
WHITE CREEK CULVERT AT TRANS-CANADA HIGHWAY No. 1

DESIGNED <u>A. WARNER</u> DATE <u>2023-01-27</u>
QUALITY CONTROL <u>P. YATES</u> DATE <u>2023-01-27</u>
QUALITY ASSURANCE <u>S. PIRILLO</u> DATE <u>2023-01-27</u>
SENIOR DESIGNER _____
DRAWN <u>A. WARNER</u> DATE <u>2023-01-27</u>

FILE NUMBER	PROJECT NUMBER	REG	DRAWING NUMBER	REV
2121-00113-00	24913-0001	2	R2-735-964	

PLOT DATE: 2023/01/24