

Parks
Canada

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Canada

CABOT TRAIL REHABILITATION FRENCH TO MACKENZIE KM 15.9 TO 21.9 CAPE BRETON HIGHLANDS NATIONAL PARK

PROJECT NO. 1114



DRAWING LIST

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GENERAL NOTES

GENERAL

- ELEVATIONS ARE EXPRESSED IN METRES.
- EXISTING GROUND ELEVATIONS ARE BASED ON LIDAR SURVEY DATA COLLECTED BY LEADING EDGE GEOMATICS IN JUNE, 2015.
- SURVEY CONTROL IS BASED ON THE CAN-NET (www.can-netgps.ca), NOVA SCOTIA ACTIVE CONTROL NETWORK AT CAN-NET STATIONS NHBR (NEILS HARBOUR) AND CHET (CHETICAMP).
- ELEVATIONS SHOWN ARE GEODETIC, AND ARE REFERENCED TO UTM20 NAD83 CSRS CGVD28 VIA HT2. NSSDA Z ACCURACY OF 9.9 CM'S (95 PERCENT).
- TOPOGRAPHIC SURVEYS BY ATTWOOD SURVEYS LTD. (JUNE, 2016) WAS COMPLETED TO SUPPLEMENT THE LIDAR DATA.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS INDICATED OTHERWISE.
- STATIONING IS EXPRESSED IN METRES.
- HORIZONTAL AND VERTICAL ALIGNMENT GEOMETRY ARE A BEST FIT BASED ON THE 2015 LIDAR SURVEY.
- VERIFY ALL ELEVATIONS AND DIMENSIONS OF EXISTING STRUCTURES AND FEATURES IN THE FIELD.
- ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL BUILDING CODE OF CANADA, CANADIAN CONSTRUCTION SAFETY CODE, NSTIR'S TEMPORARY WORKPLACE TRAFFIC CONTROL MANUAL (TWTCM) AND ALL REGULATIONS AS SET OUT BY LOCAL AUTHORITIES HAVING JURISDICTION.
- COMPLY WITH ALL REQUIREMENTS OF THE TECHNICAL SPECIFICATIONS BOUND SEPARATELY.

ENVIRONMENTAL

- WORK OPERATIONS SHALL BE CARRIED OUT AT ALL TIMES SO AS TO CAUSE A MINIMUM OF DISTURBANCE AND SILTATION TO WATERCOURSES.
- USE SILT FENCE AND ALL OTHER APPROPRIATE MEANS TO PREVENT SEDIMENT FROM DISTURBED AREAS FROM ENTERING ANY WATERCOURSE. LOCATE AS REQUIRED AND AS DIRECTED.
- MONITOR EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL MEASURES DURING AND AFTER RAINFALL EVENTS. REPAIR AND REPLACE AS NECESSARY.
- REVEGETATE ALL DISTURBED AREAS WITH APPROVED SEED MIX TO THE SATISFACTION OF THE ENVIRONMENTAL PROTECTION OFFICER (E.P.O.).

EXCAVATION

- PROVIDE ADEQUATE PROTECTION TO ALL SURVEY AND LAYOUT MARKERS, INCLUDING BENCH MARKS AND EXISTING FACILITIES, EQUIPMENT, ETC.
- EXCAVATE TO ELEVATIONS INDICATED AND TO WELL DEFINED LINES SUFFICIENT TO ALLOW INSTALLATION, CONSTRUCTION AND INSPECTION OF WORK WITH MINIMUM FILL.
- EXCAVATIONS SHALL BE DRY, FREE OF LOOSE OR ORGANIC MATTER.
- PROTECT BOTTOM OF EXCAVATION FROM SOFTENING. SOFTENED SOIL SHALL BE REMOVED AND REPLACED WITH DENSE STRUCTURAL FILL COMPACTED AS SPECIFIED AND REQUIRED.
- STOCKPILE EXCAVATED MATERIAL SO AS TO NOT INTERFERE WITH SITE OPERATIONS OR DRAINAGE.
- CORRECT UNAUTHORIZED EXCAVATION UNDER BEARING SURFACES AND OTHER AREAS WITH DENSE STRUCTURAL FILL COMPACTED TO 95% OF MODIFIED PROCTOR, OR TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE, AT NO EXTRA COST.
- DO NOT PROCEED WITH FURTHER WORK UNTIL EXCAVATION HAS BEEN INSPECTED AND APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.

FOUNDATIONS

- ALL FOUNDATIONS AND SUBGRADE SURFACES SHALL BE FOUNDED ON UNDISTURBED NATIVE SOILS, BEDROCK, OR APPROVED FILL MATERIAL.

DRAINAGE

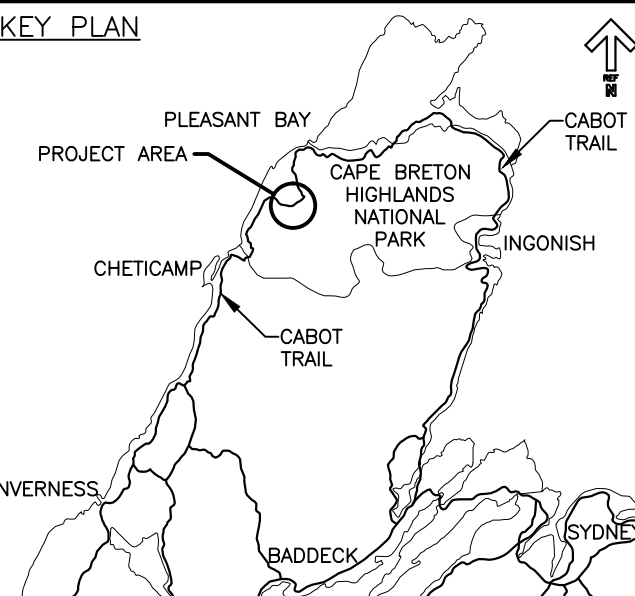
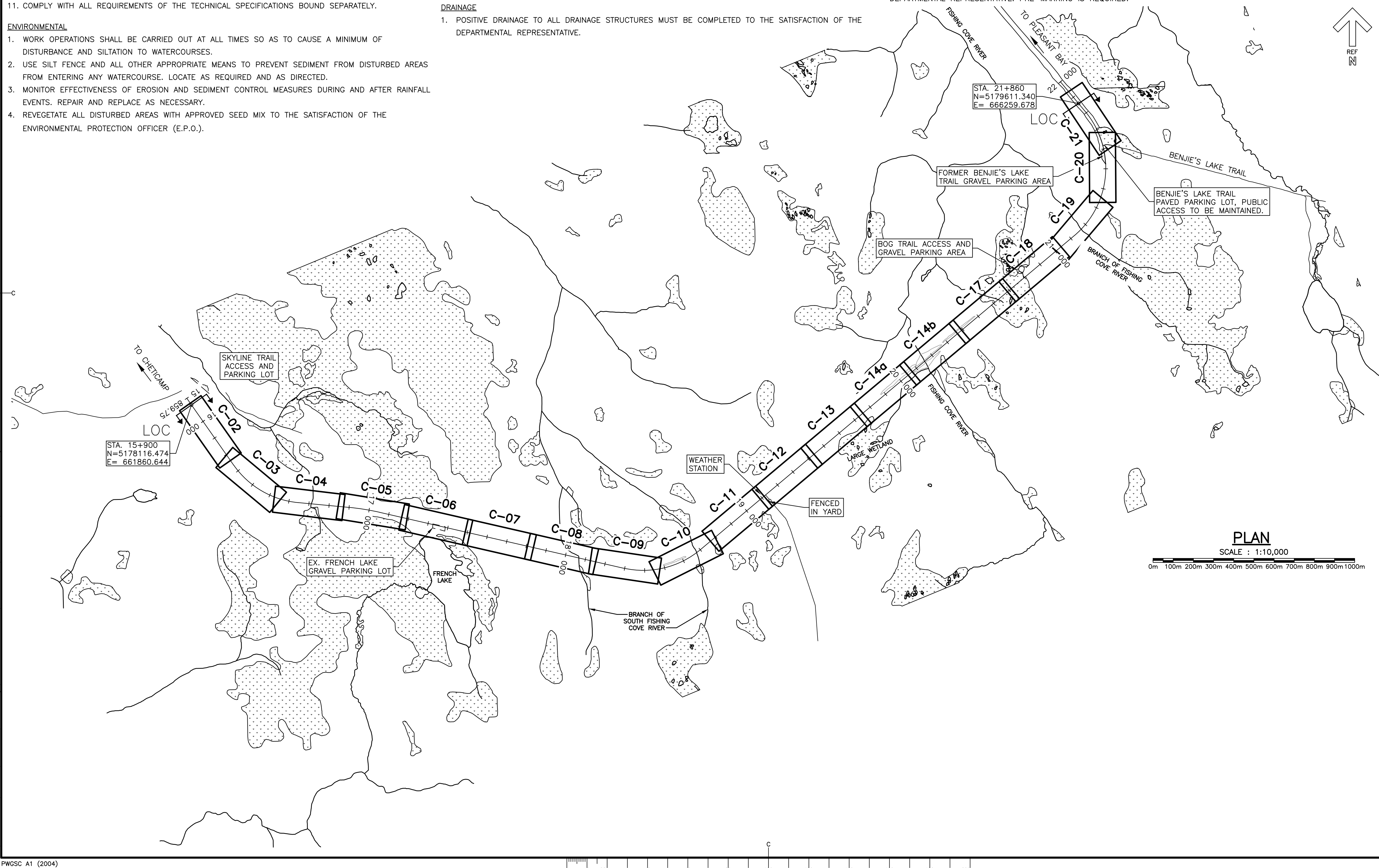
- POSITIVE DRAINAGE TO ALL DRAINAGE STRUCTURES MUST BE COMPLETED TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.

BACKFILL

- DO NOT COMMENCE BACKFILLING UNTIL AREAS OF WORK TO BE BACKFILLED HAVE BEEN INSPECTED AND APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
- AREAS TO BE BACKFILLED SHALL BE FREE OF DEBRIS, SNOW, ICE, WATER OR FROZEN GROUND.
- BACKFILL ONLY WITH MATERIAL APPROVED BY THE DEPARTMENTAL REPRESENTATIVE IN CONTINUOUS HORIZONTAL LAYERS NOT EXCEEDING SPECIFIED THICKNESS AND COMPACT AS SPECIFIED AND REQUIRED.
- BACKFILL SIMULTANEOUSLY EACH SIDE OF PIPE OR WALLS. BRACE OR SHORE TO COUNTERACT UNBALANCED PRESSURES. DO NOT REMOVE UNTIL AUTHORIZED BY THE DEPARTMENTAL REPRESENTATIVE.
- COMPACT MATERIALS AS SPECIFIED.

SIGNAGE

- SIGNS IDENTIFIED FOR REMOVAL AND REINSTATEMENT ARE TO BE REPLACED WITH PRESSURE TREATED WOOD POSTS AS SHOWN ON DETAILS PROVIDED IN THIS PACKAGE.
- ALL SIGNAGE AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE TRANSPORTATION ASSOCIATION OF CANADA (TAC) MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES OF CANADA.
- CONTRACTOR IS RESPONSIBLE TO SURVEY EXISTING PAVEMENT MARKINGS PRIOR TO MILLING/ASPHALT REMOVAL.
- PAVEMENT MARKINGS ARE APPROXIMATE AND SHALL BE CONFIRMED AND APPROVED ON SITE BY THE DEPARTMENTAL REPRESENTATIVE. PRE-MARKING IS REQUIRED.



LEGEND:

	CABOT TRAIL
	DRAWING NUMBER (WORK AREA LIMITS)



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revisions		date

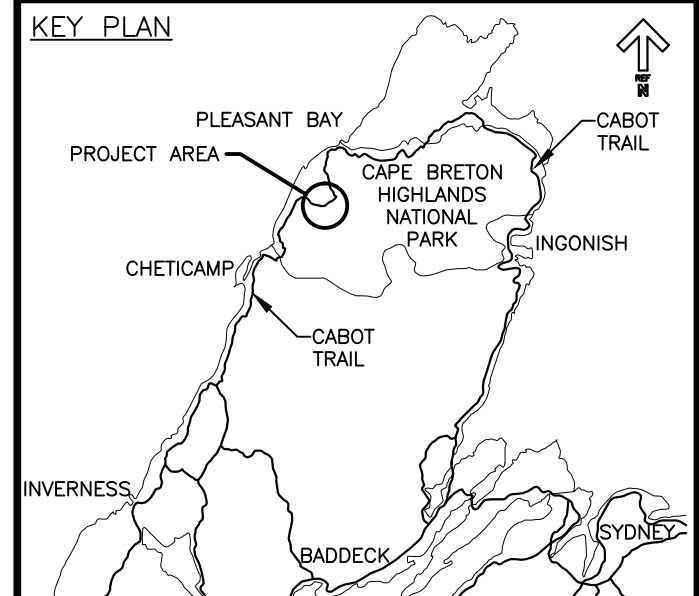
CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing dessein

LOCATION PLAN

designed DSC	conçu
date FEB. 20, 2017	
drawn JLD	dessiné
date FEB. 20, 2017	
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Tender	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet
1114	
drawing no.	no. du dessein
C-01	

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- LEGEND EXISTING**
- 8m CONTOUR & ELEVATION
 - ☉ ROADWAY
 - EDGE OF PAVE
 - GUARD RAIL
 - ASPHALT GUTTER
 - DAYLIGHT
 - EDGE OF GRAVEL
 - EDGE OF TREES
 - WATERCOURSE BOUNDARY
 - CULVERT
 - SIGN
 - BUILDING
 - ◆ B.H.-01 BOREHOLE
 - ▲ BELL ALIANT JUNCTION BOX
 - BELL ALIANT COMM. CABLES
- LEGEND NEW**
- EDGE OF PAVE
 - ☉ ROADWAY
 - EDGE OF PAVE
 - SHOULDER
 - GUARD RAIL
 - ASPHALT GUTTER
 - DITCH LINE
 - DITCH DRAINAGE
 - DAYLIGHT (TOP)
 - DAYLIGHT (TOE)
 - EDGE OF GRAVEL
 - CLEARING LIMIT
 - CULVERT
 - RIP-RAP



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project CABOT TRAIL REHABILITATION
 FRENCH TO MACKENZIE
 KM 15.9 TO 21.9
 CAPE BRETON HIGHLANDS NATIONAL PARK

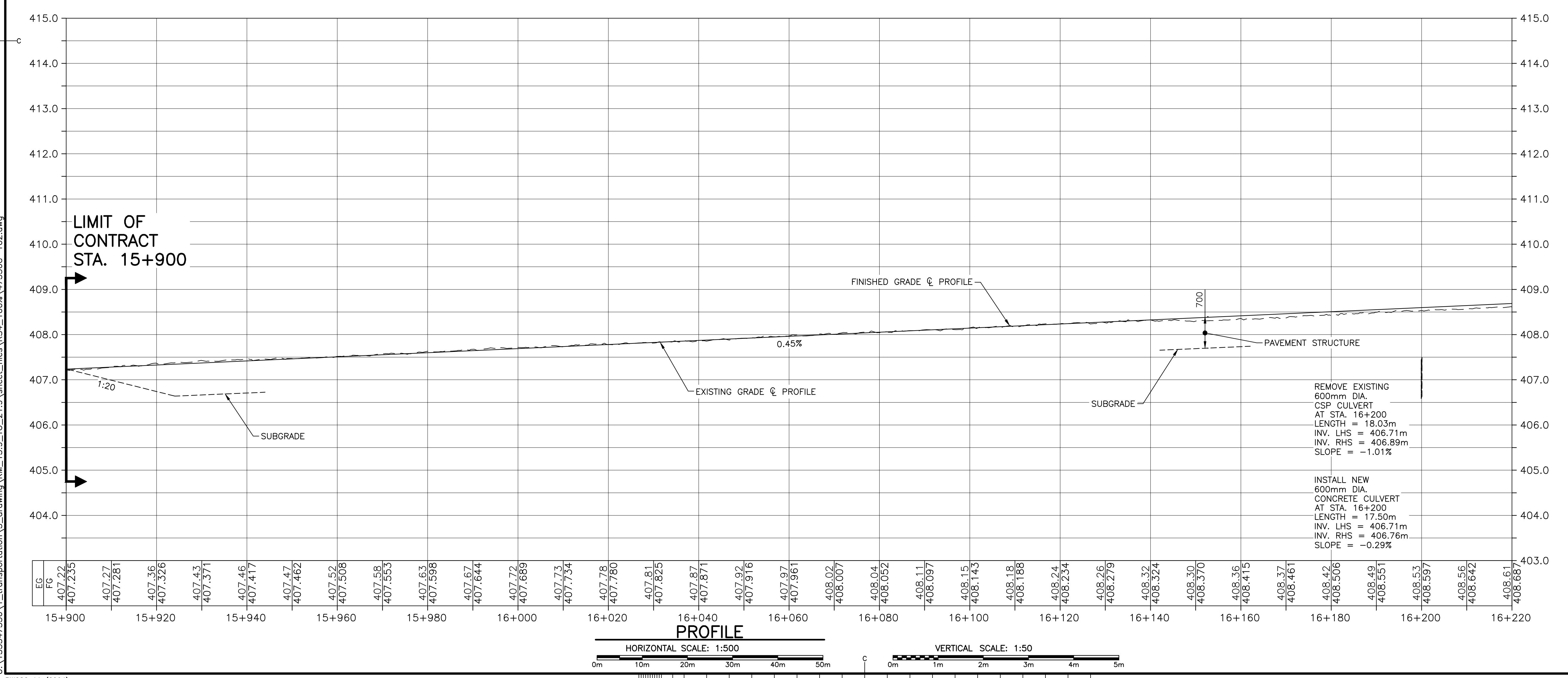
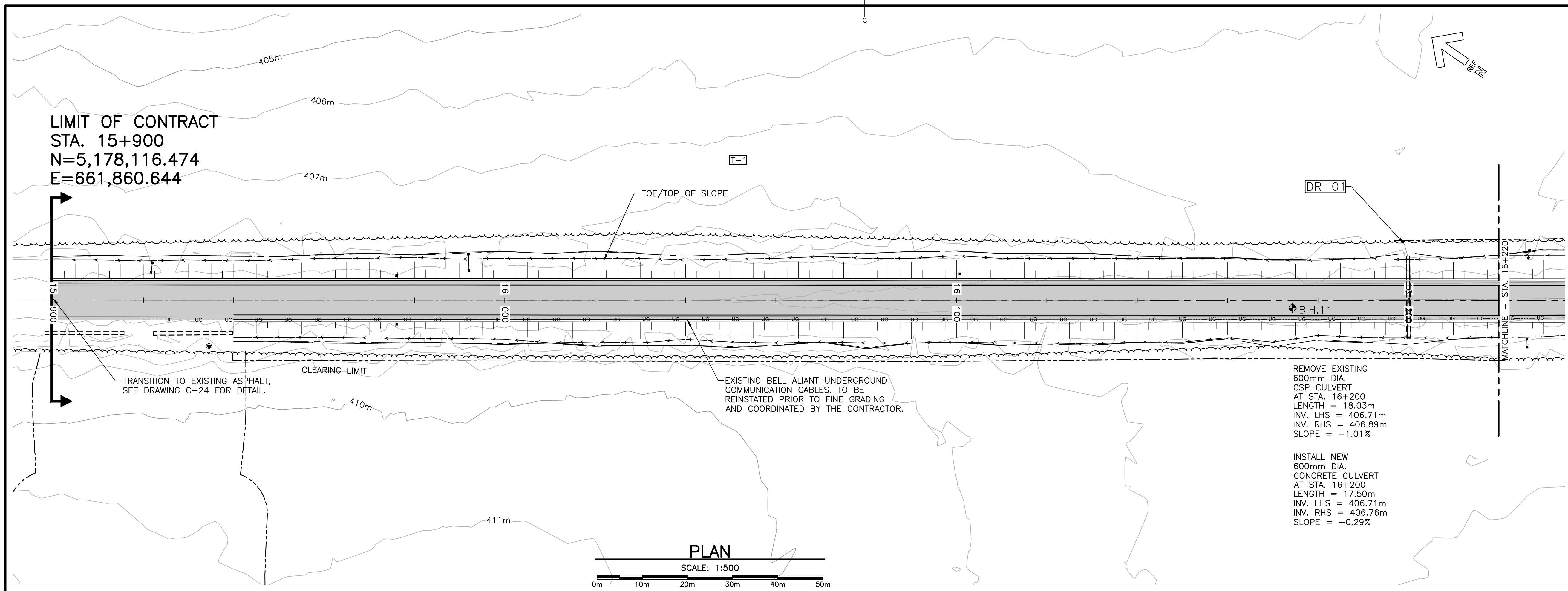
drawing C-02 dessin

**PLAN AND PROFILE
 STA. 15+900 TO
 STA. 16+220**

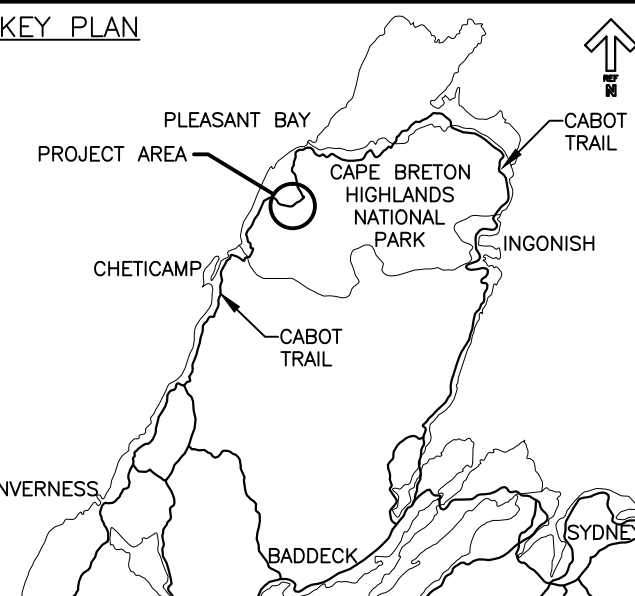
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LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- CULVERT
- SIGN
- BUILDING
- BOREHOLE
- BELL ALIANT JUNCTION BOX
- BELL ALIANT COMM. CABLES

LEGEND NEW

- EDGE OF PAVE
- ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- ASPHALT GUTTER
- DITCH LINE
- DITCH DRAINAGE
- DAYLIGHT (TOP)
- DAYLIGHT (TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
- CULVERT
- RIP-RAP



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**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

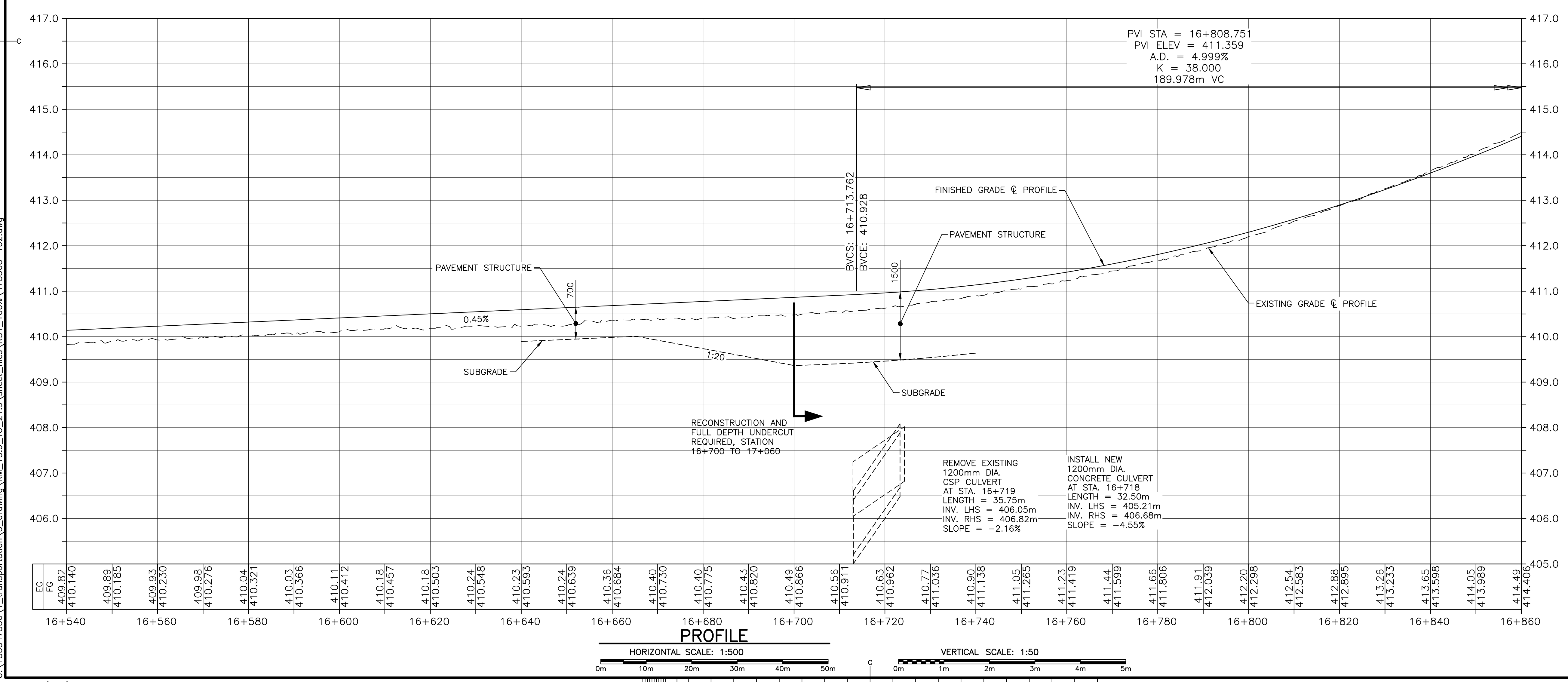
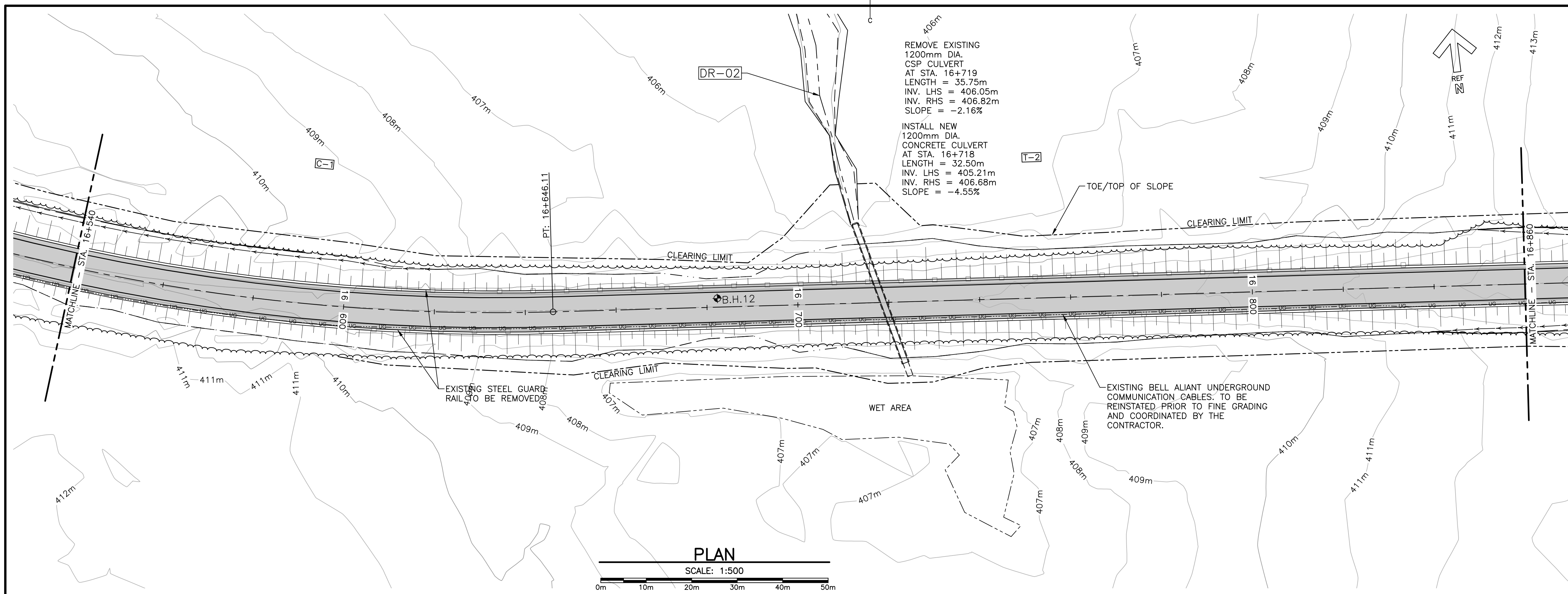
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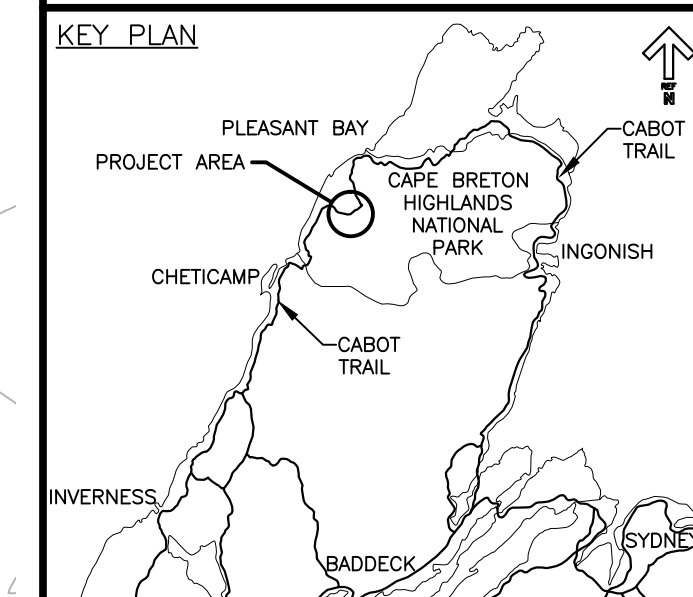
**PLAN AND PROFILE
STA. 16+540 TO
STA. 16+860**

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drawing no. C-04 no. du dessein





LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ☉ ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- CULVERT
- SIGN
- BUILDING
- BOREHOLE
- BELL ALIANT JUNCTION BOX
- BELL ALIANT COMM. CABLES

LEGEND NEW

- EDGE OF PAVE
- ☉ ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- ASPHALT GUTTER
- DITCH LINE
- DITCH DRAINAGE
- DAYLIGHT (TOP)
- DAYLIGHT (TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
- CULVERT
- RIP-RAP



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**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

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**PLAN AND PROFILE
STA. 16+860 TO
STA. 17+180**

designed DSC conçu

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drawn JLD dessiné

date FEB. 20, 2017

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Tender Soumission

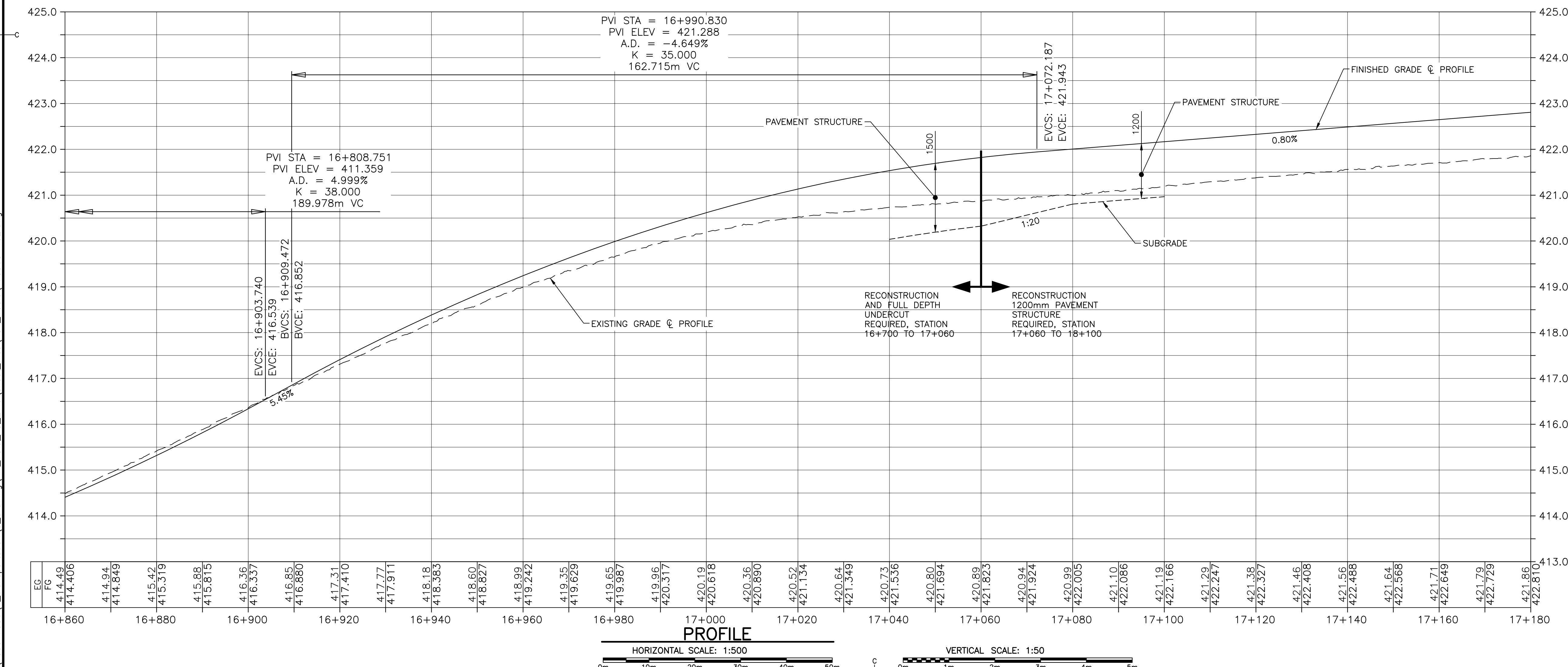
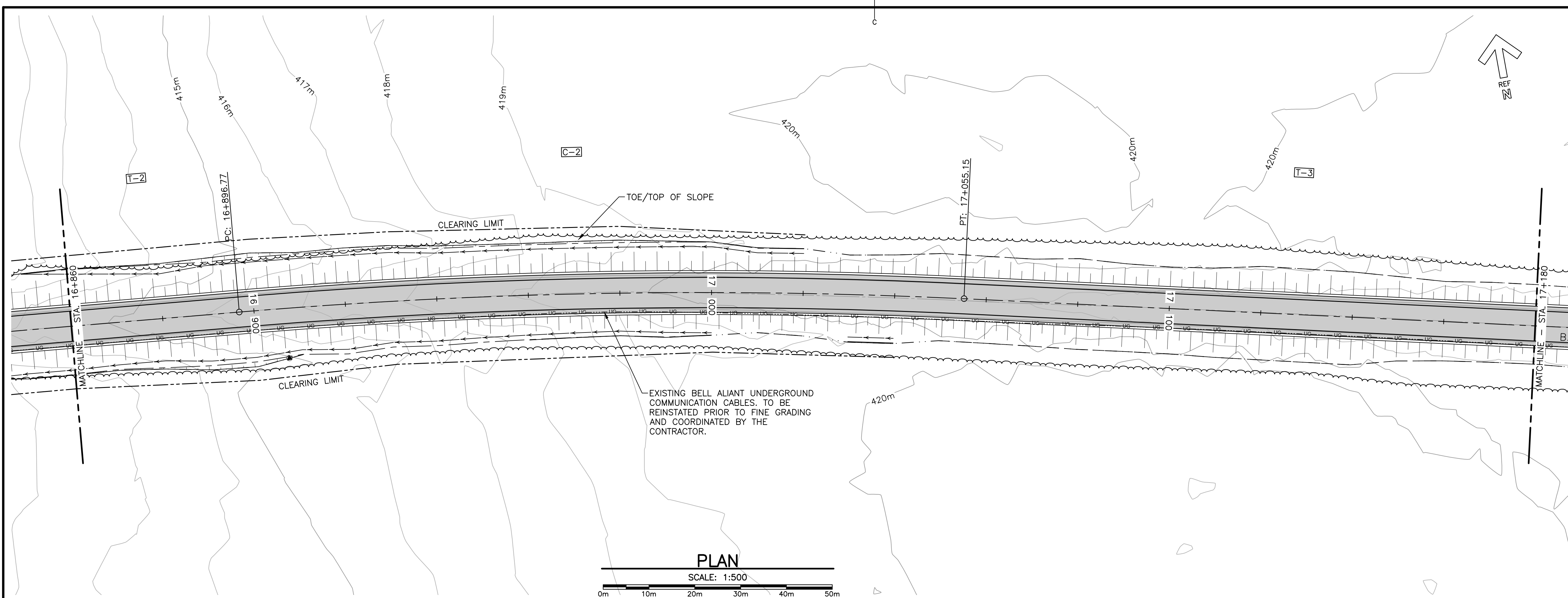
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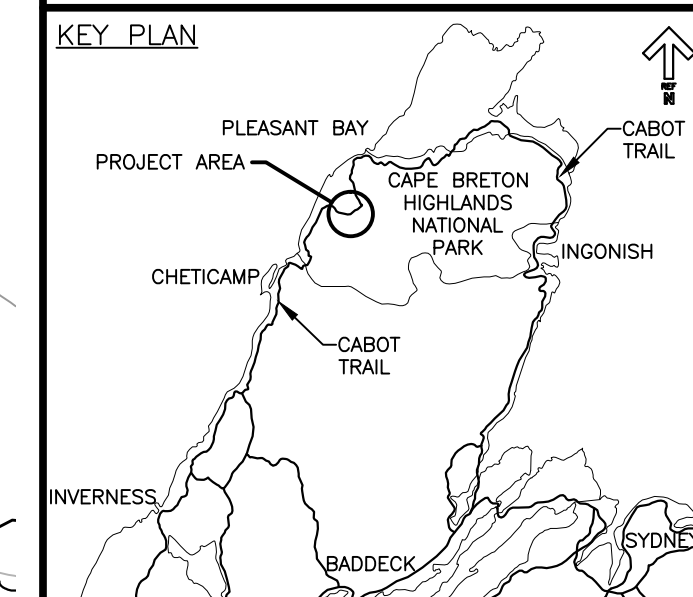
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C-05



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LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- CULVERT
- SIGN
- BUILDING
- BOREHOLE
- BELL ALIANT JUNCTION BOX
- BELL ALIANT COMM. CABLES

LEGEND NEW

- EDGE OF PAVE
- ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- ASPHALT GUTTER
- DITCH LINE
- DITCH DRAINAGE
- DAYLIGHT (TOP)
- DAYLIGHT (TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
- CULVERT
- RIP-RAP



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**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing design

**PLAN AND PROFILE
STA. 17+180 TO
STA. 17+500**

designed DSC	conçu
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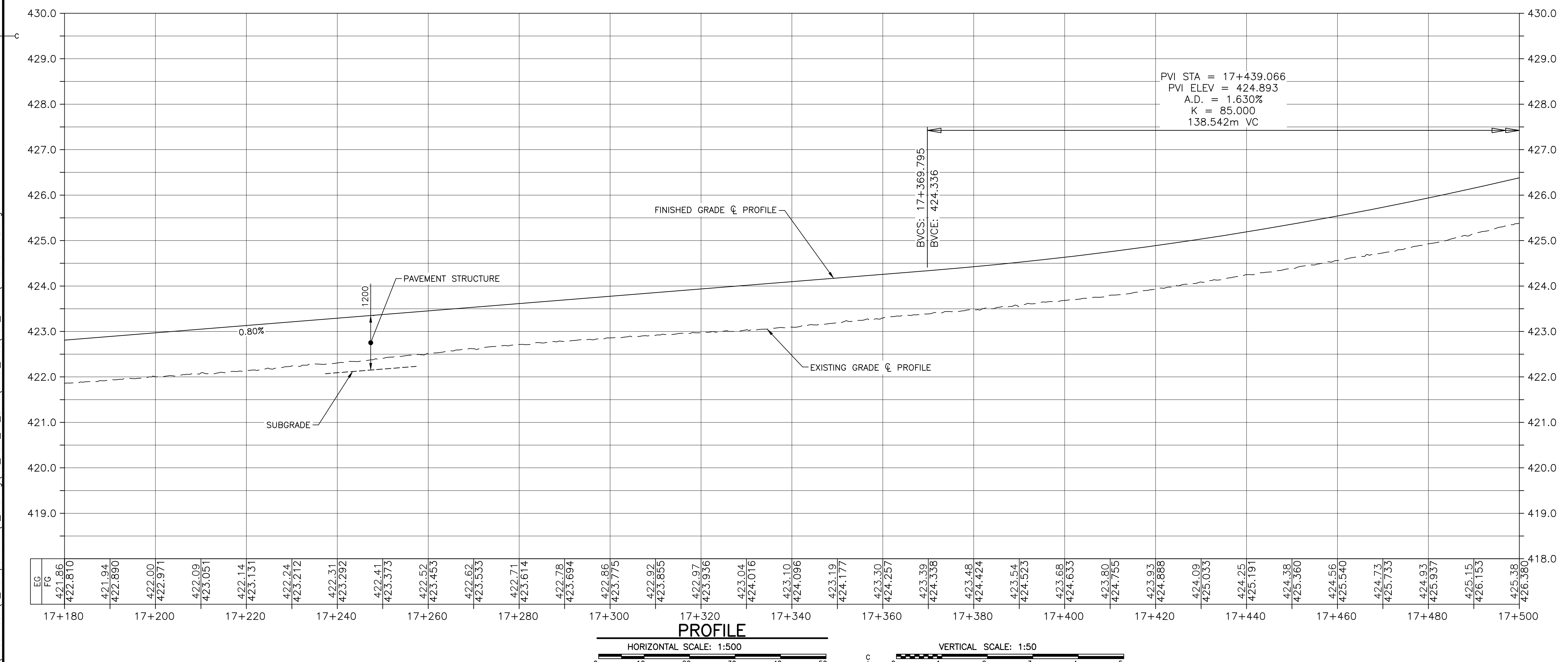
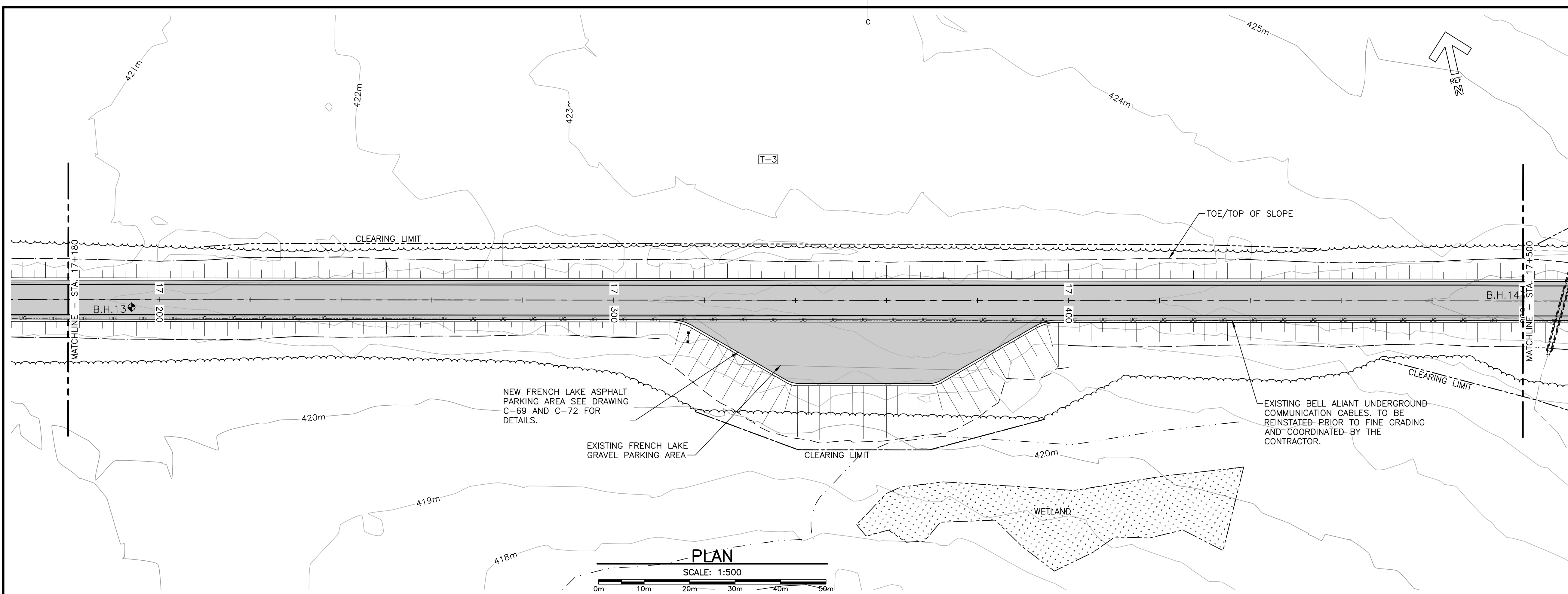
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PCA Project Manager Administrateur de projets PCA

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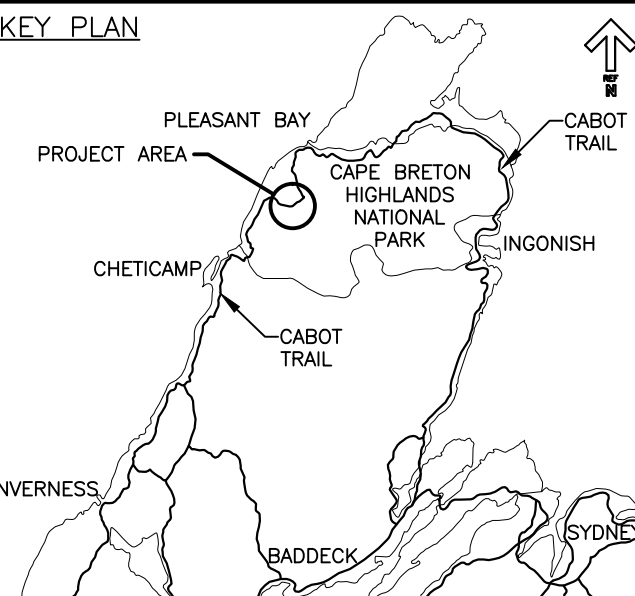
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LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ☉ ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- CULVERT
- SIGN
- BUILDING
- ◆ BH-01 BOREHOLE
- ▲ BELL ALIANT JUNCTION BOX
- BELL ALIANT COMM. CABLES

LEGEND NEW

- EDGE OF PAVE
- ☉ ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- ASPHALT GUTTER
- DITCH LINE
- DITCH DRAINAGE
- DAYLIGHT (TOP)
- DAYLIGHT (TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
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project project
**CABOT TRAIL REHABILITATION
 FRENCH TO MACKENZIE
 KM 15.9 TO 21.9
 CAPE BRETON HIGHLANDS
 NATIONAL PARK**

drawing dessin

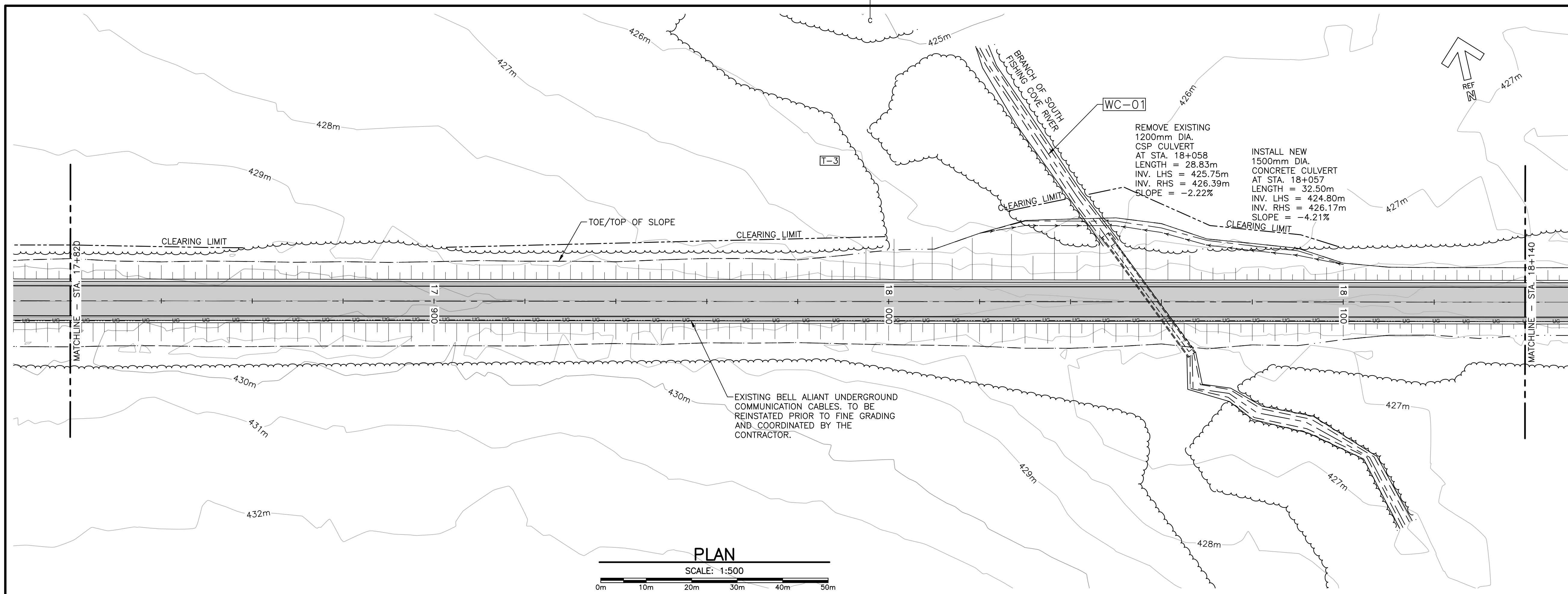
**PLAN AND PROFILE
 STA. 17+820 TO
 STA. 18+140**

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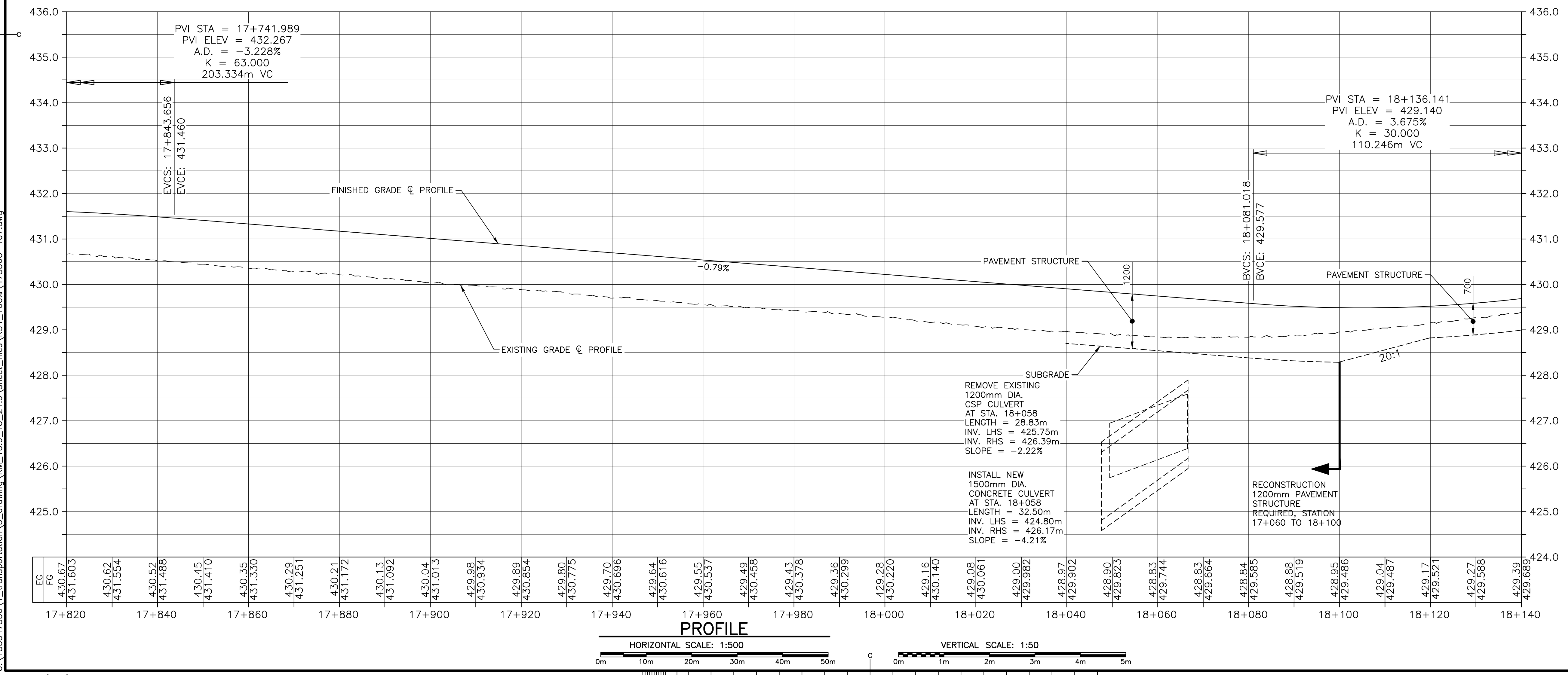
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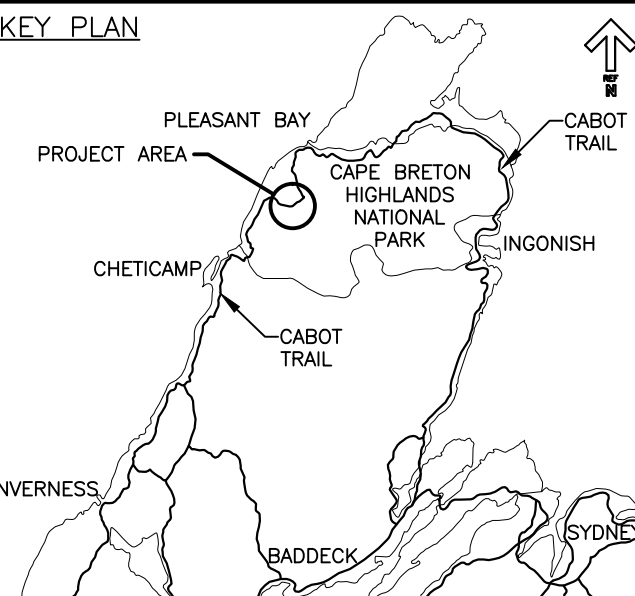


PLAN
 SCALE: 1:500



PROFILE
 HORIZONTAL SCALE: 1:500
 VERTICAL SCALE: 1:50

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- LEGEND EXISTING**
- 8m CONTOUR & ELEVATION
 - ROADWAY
 - EDGE OF PAVE
 - GUARD RAIL
 - ASPHALT GUTTER
 - DAYLIGHT
 - EDGE OF GRAVEL
 - EDGE OF TREES
 - WATERCOURSE BOUNDARY
 - CULVERT
 - SIGN
 - BUILDING
 - BH-01 BOREHOLE
 - BELL ALIANT JUNCTION BOX
 - BELL ALIANT COMM. CABLES

- LEGEND NEW**
- EDGE OF PAVE
 - ROADWAY
 - EDGE OF PAVE
 - SHOULDER
 - GUARD RAIL
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**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessein

**PLAN AND PROFILE
STA. 18+140 TO
STA. 18+460**

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date FEB. 20, 2017

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date FEB. 20, 2017

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date FEB. 20, 2017

Tender Soumission

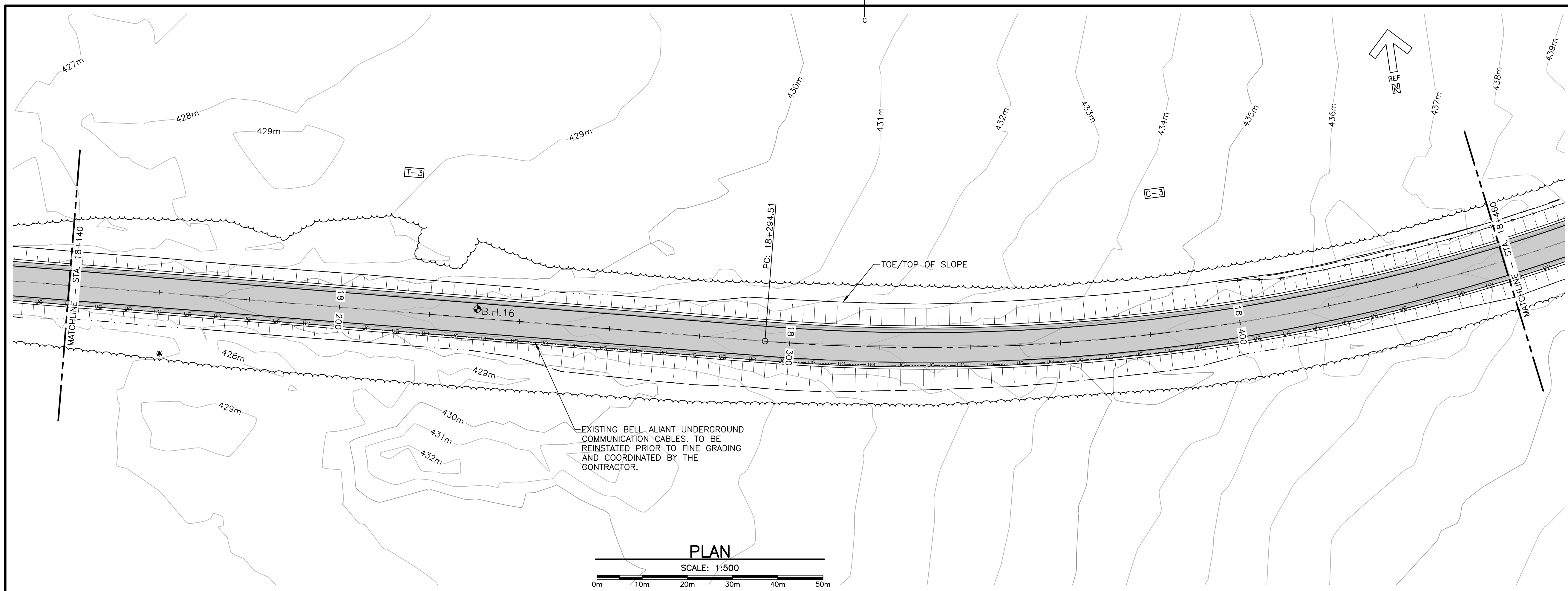
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project number no. du projet

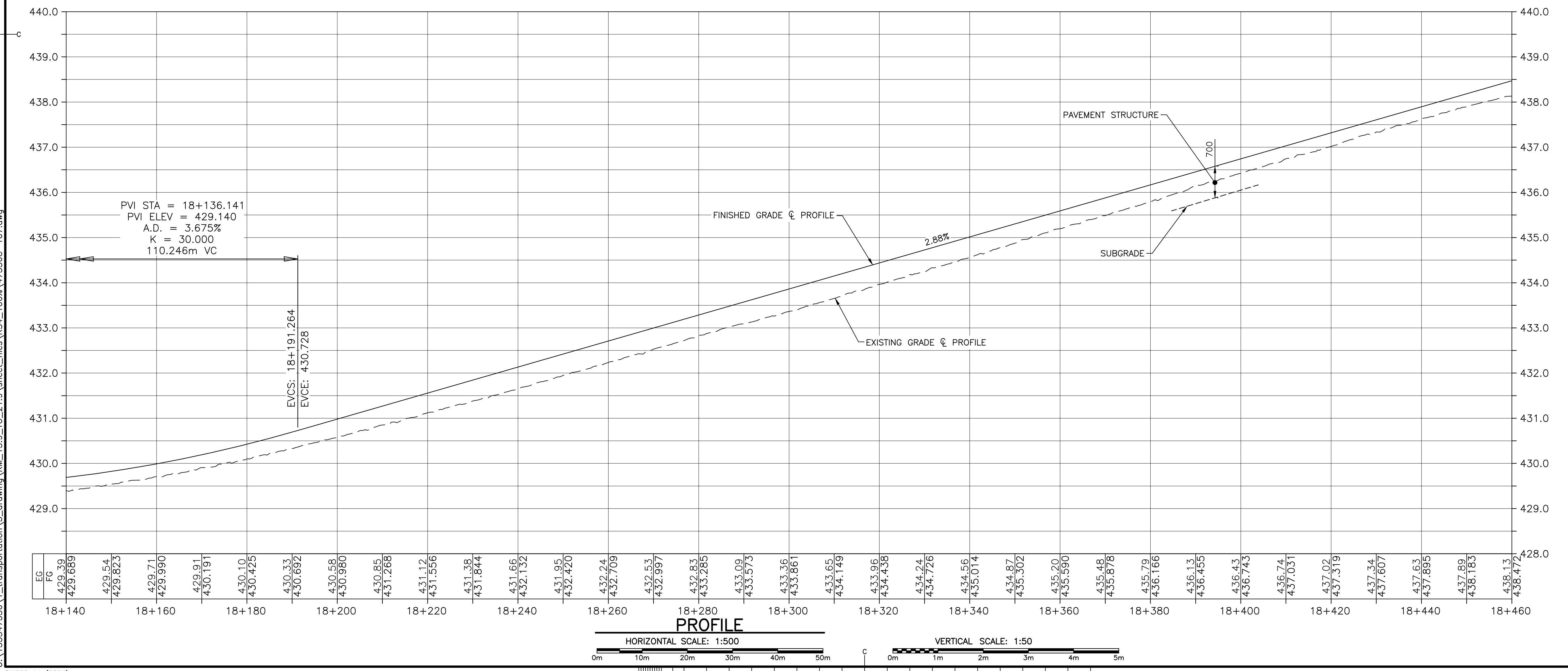
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drawing no. no. du dessein

C-09

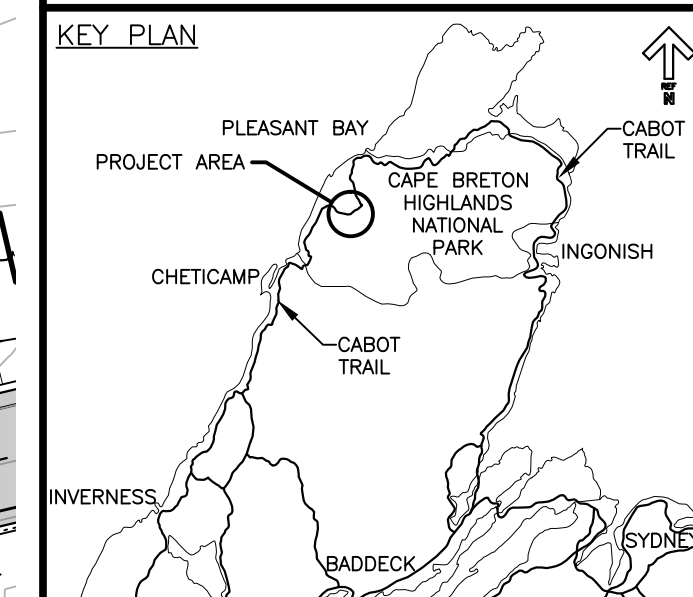


PLAN
SCALE: 1:500



PROFILE
HORIZONTAL SCALE: 1:500
VERTICAL SCALE: 1:50

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LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
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- BELL ALIANT JUNCTION BOX
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LEGEND NEW

- EDGE OF PAVE
- ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- ASPHALT GUTTER
- DITCH LINE
- DITCH DRAINAGE
- DAYLIGHT (TOP)
- DAYLIGHT (TOE)
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**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessein

**PLAN AND PROFILE
STA. 18+460 TO
STA. 18+780**

designed DSC conçu

date FEB. 20, 2017

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date FEB. 20, 2017

approved RMB approuvé

date FEB. 20, 2017

Tender Soumission

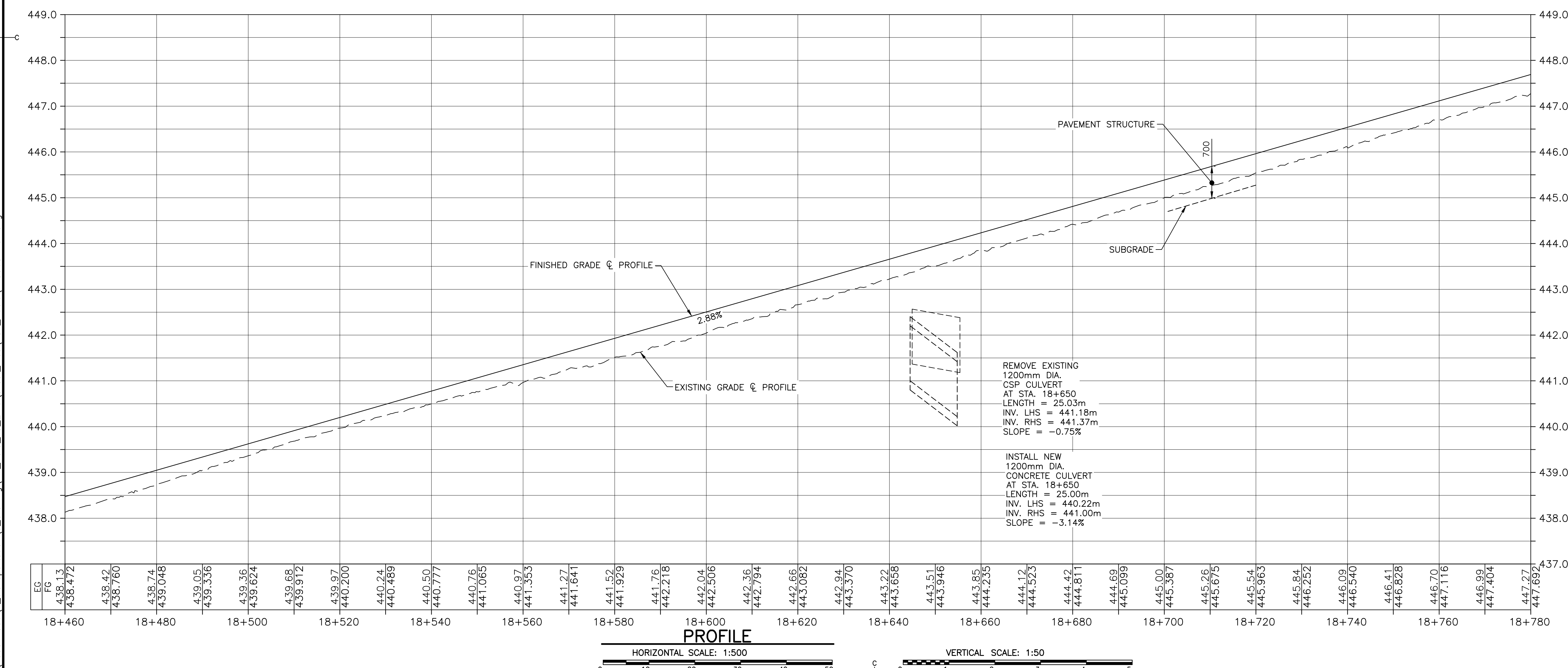
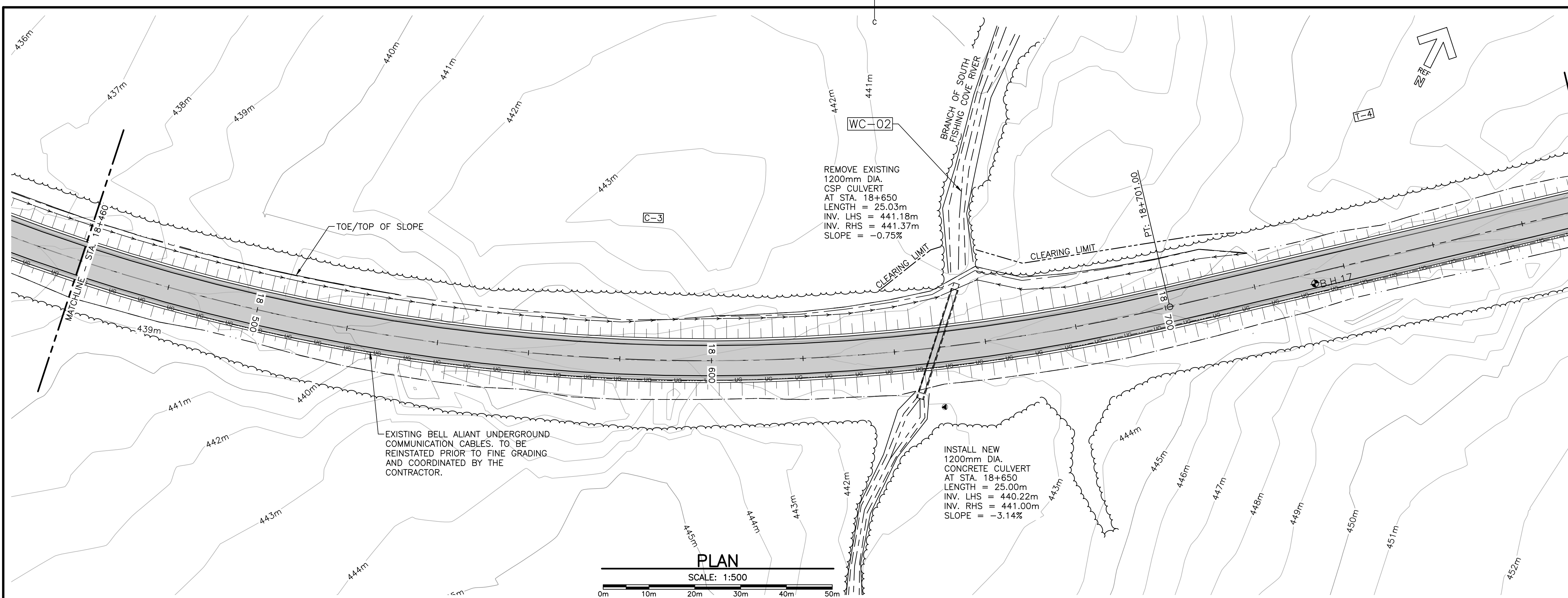
PCA Project Manager Administrateur de projets PCA

project number no. du projet

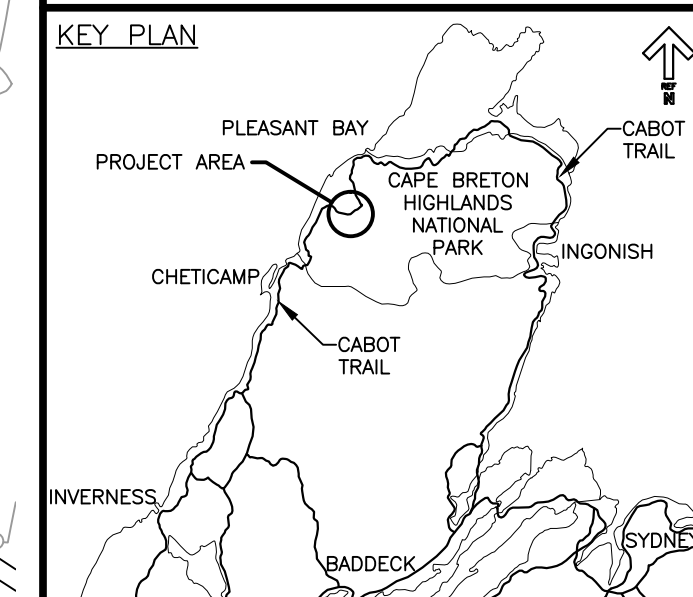
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drawing no. no. du dessein

C-10



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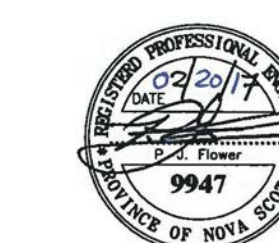


LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- CULVERT
- SIGN
- BUILDING
- BH-01 BOREHOLE
- BELL ALIANT JUNCTION BOX
- BELL ALIANT COMM. CABLES

LEGEND NEW

- EDGE OF PAVE
- ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- ASPHALT GUTTER
- DITCH DRAINAGE
- DAYLIGHT (TOP)
- DAYLIGHT (TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
- CULVERT
- RIP-RAP



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revisions		date
project		projct

**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessin

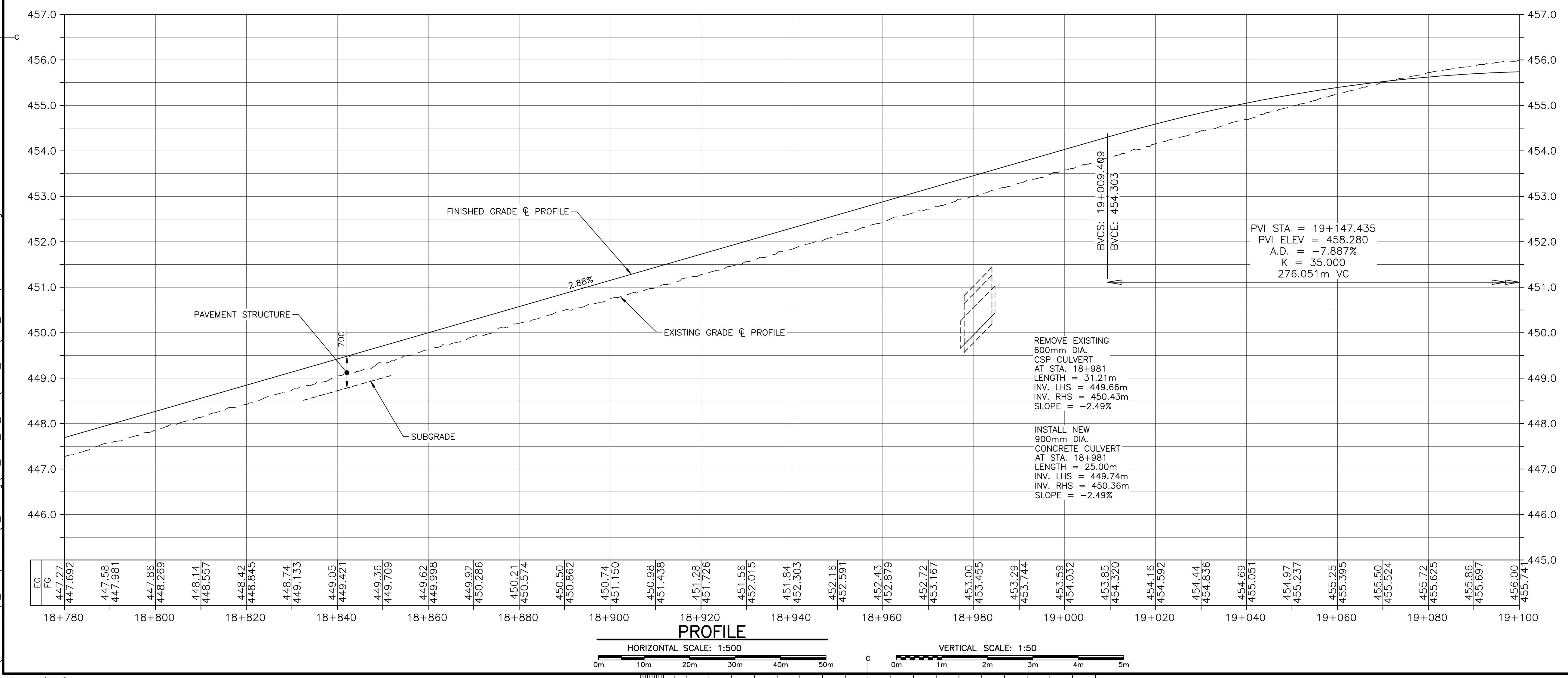
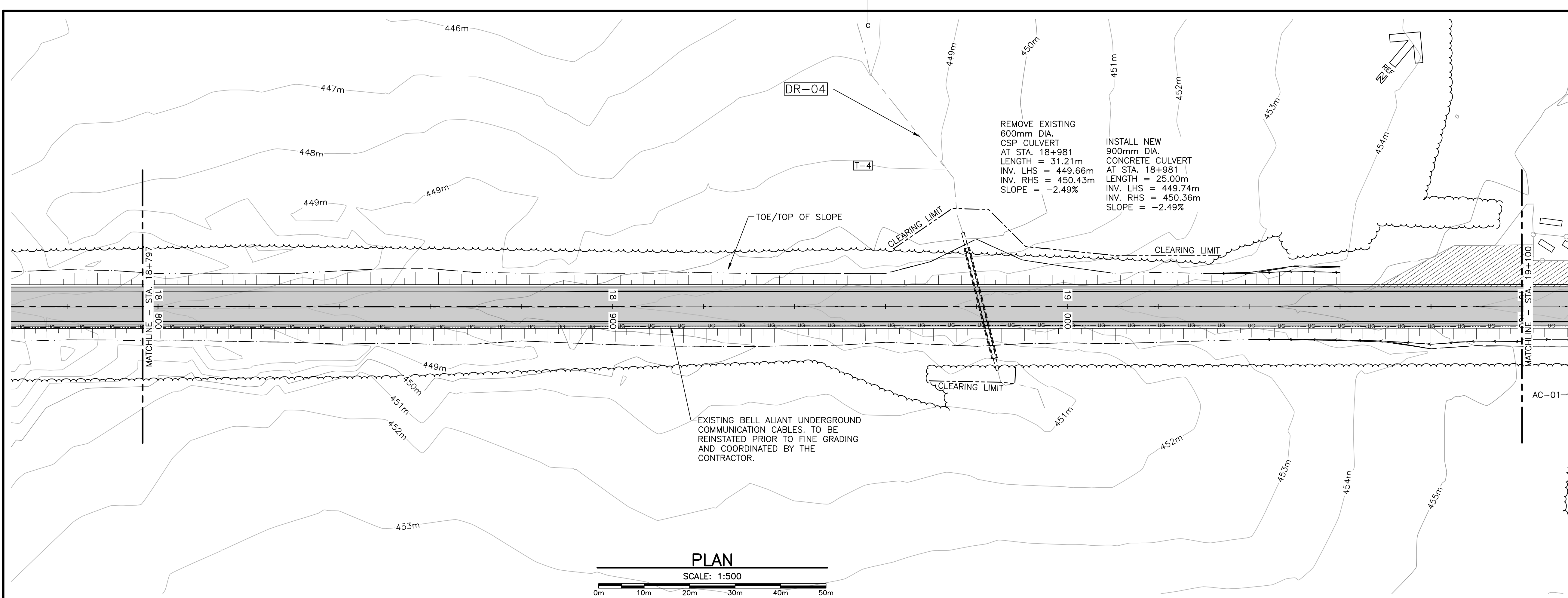
**PLAN AND PROFILE
STA. 18+780 TO
STA. 19+100**

designed DSC	conçu
date FEB. 20, 2017	
drawn JLD	dessiné
date FEB. 20, 2017	
approved RMB	approuvé
date FEB. 20, 2017	
Tender	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

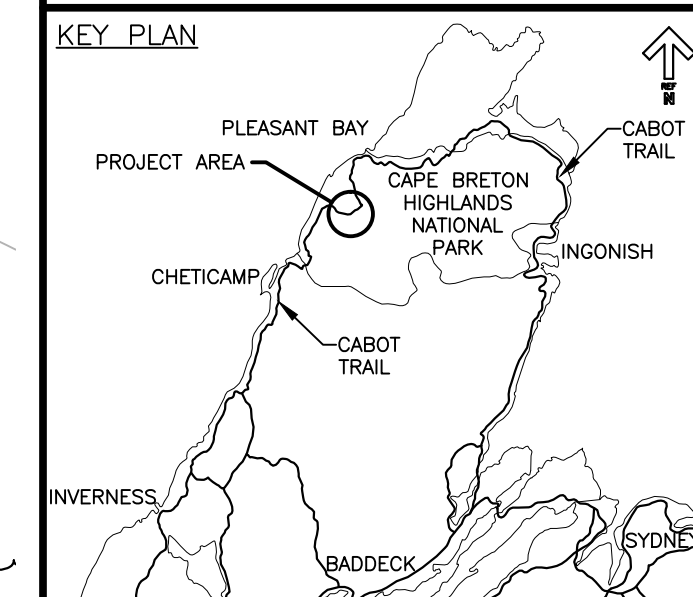
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drawing no. no. du dessin

C-11



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LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- CULVERT
- SIGN
- BUILDING
- BH-01 BOREHOLE
- BELL ALIANT JUNCTION BOX
- BELL ALIANT COMM. CABLES

LEGEND NEW

- EDGE OF PAVE
- ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- ASPHALT GUTTER
- DITCH LINE
- DITCH DRAINAGE
- DAYLIGHT (TOP)
- DAYLIGHT (TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
- CULVERT
- RIP-RAP



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**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing design

**PLAN AND PROFILE
STA. 19+100 TO
STA. 19+420**

designed DSC	conçu
date FEB. 20, 2017	
drawn JLD	dessiné
date FEB. 20, 2017	
approved RMB	approuvé
date FEB. 20, 2017	

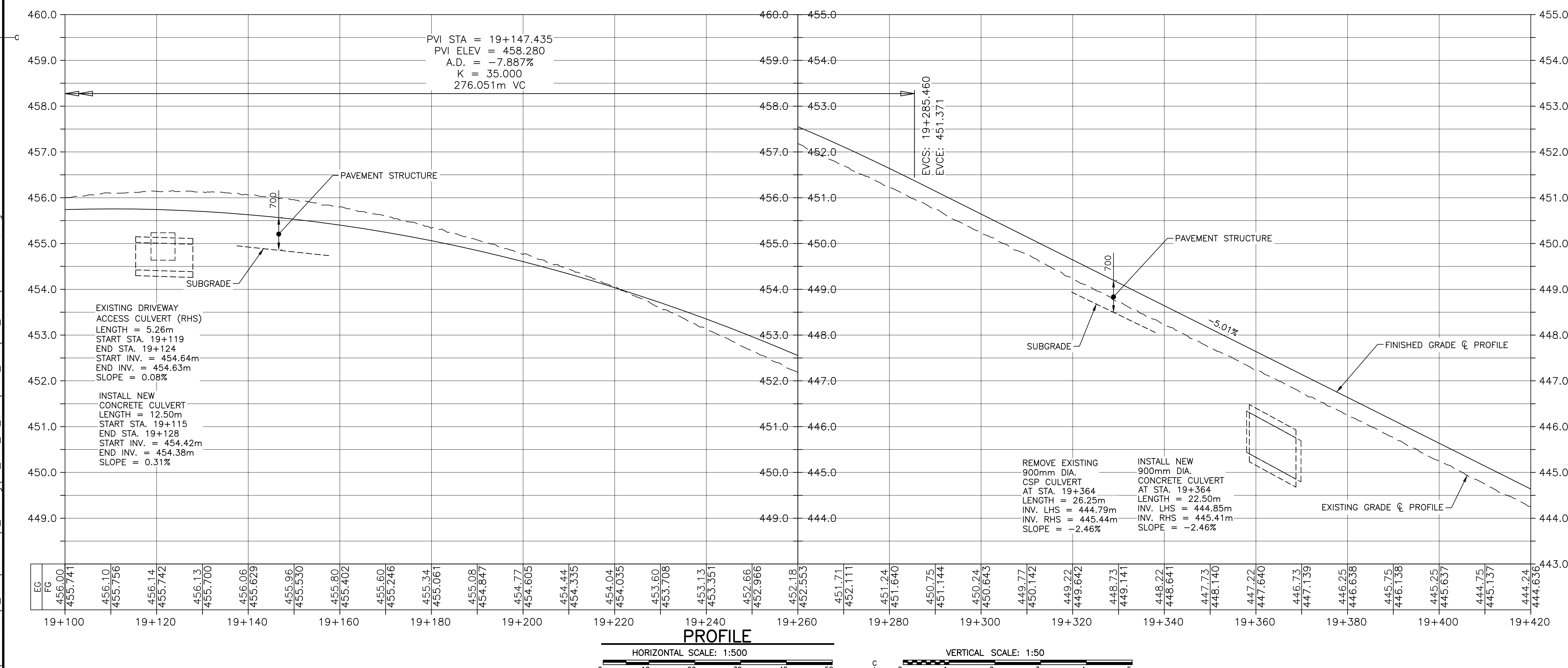
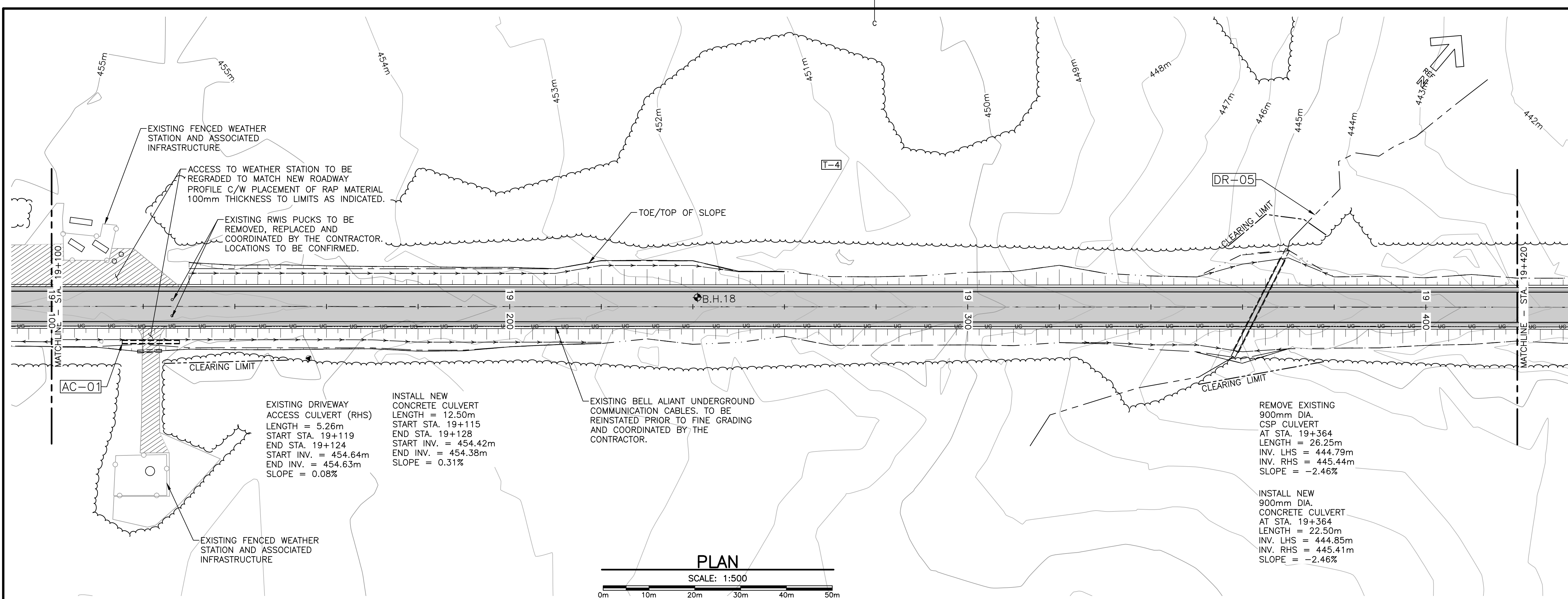
Tender Soumission
PCA Project Manager Administrateur de projets PCA

project number no. du projet

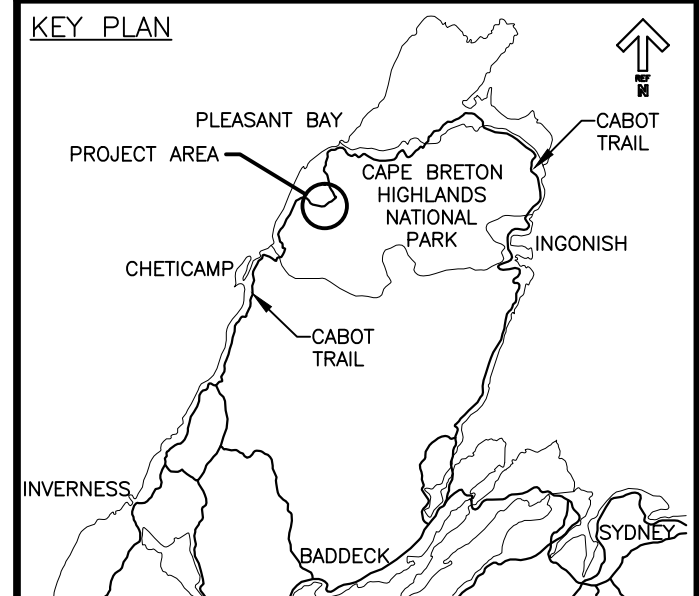
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drawing no. no. du dessin

C-12



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- LEGEND EXISTING**
- 8m CONTOUR & ELEVATION
 - ☉ ROADWAY
 - EDGE OF PAVE
 - GUARD RAIL
 - ASPHALT GUTTER
 - DAYLIGHT
 - EDGE OF GRAVEL
 - EDGE OF TREES
 - WATERCOURSE BOUNDARY
 - CULVERT
 - SIGN
 - BUILDING
 - BOREHOLE
 - BELL ALIANT JUNCTION BOX
 - BELL ALIANT COMM. CABLES

- LEGEND NEW**
- EDGE OF PAVE
 - ☉ ROADWAY
 - EDGE OF PAVE
 - SHOULDER
 - GUARD RAIL
 - ASPHALT GUTTER
 - DITCH LINE
 - DITCH DRAINAGE
 - DAYLIGHT (TOP)
 - DAYLIGHT (TOE)
 - EDGE OF GRAVEL
 - CLEARING LIMIT
 - CULVERT
 - RIP-RAP



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**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessein

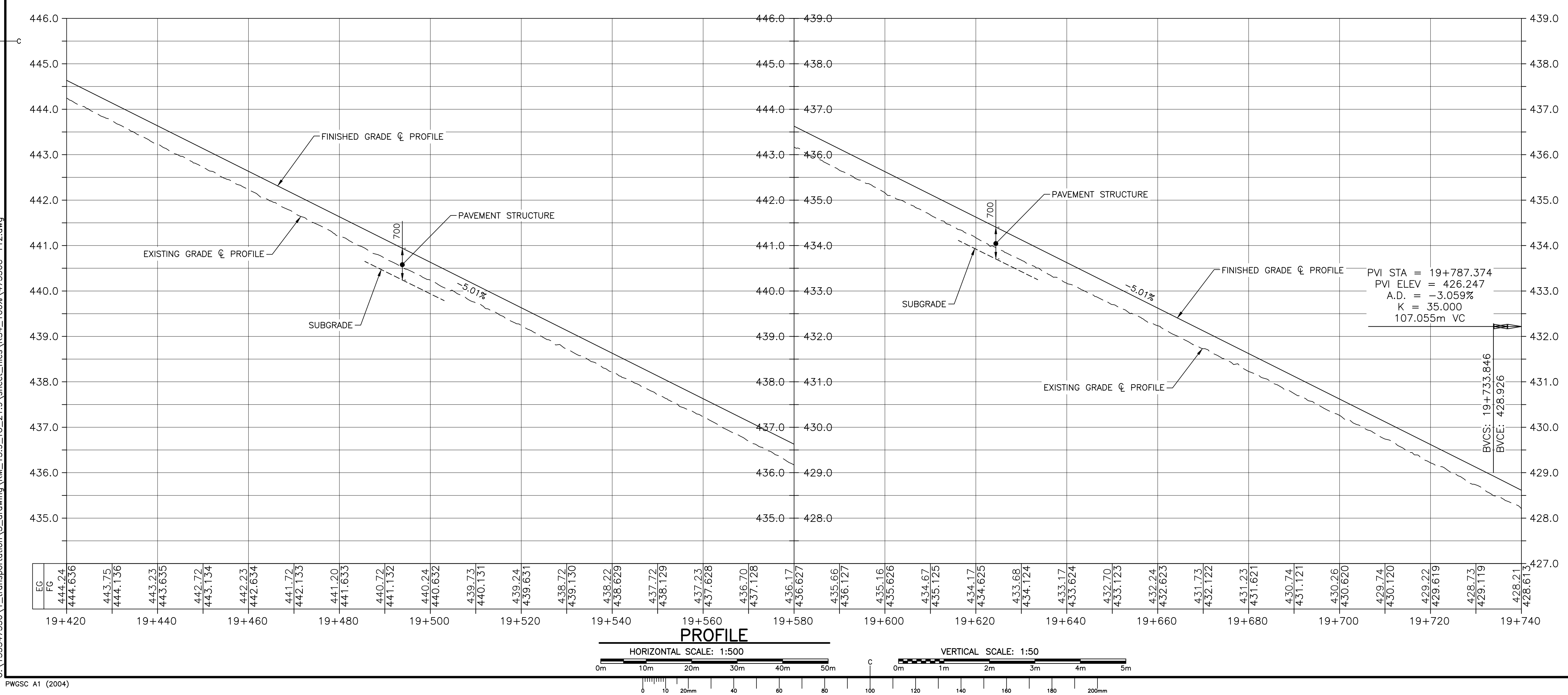
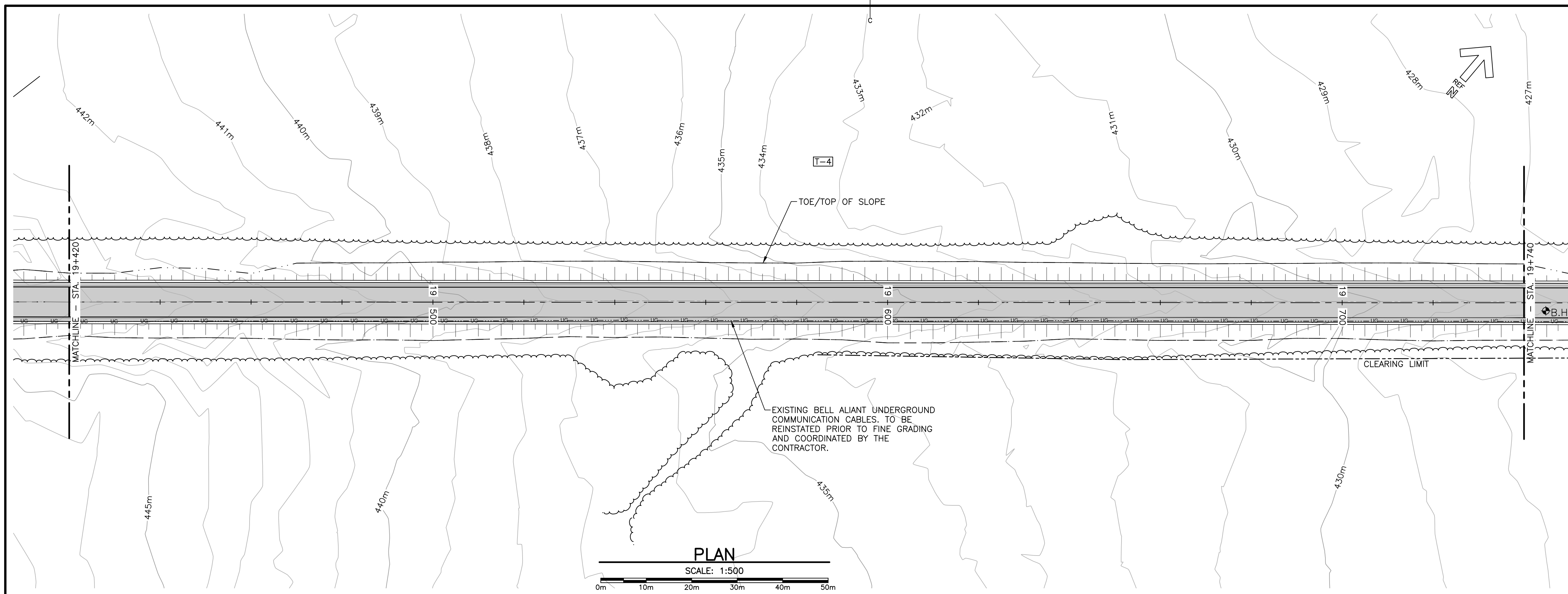
**PLAN AND PROFILE
STA. 19+420 TO
STA. 19+740**

designed DSC	conçu
date FEB. 20, 2017	
drawn JLD	dessiné
date FEB. 20, 2017	
approved RMB	approuvé
date FEB. 20, 2017	
Tender	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

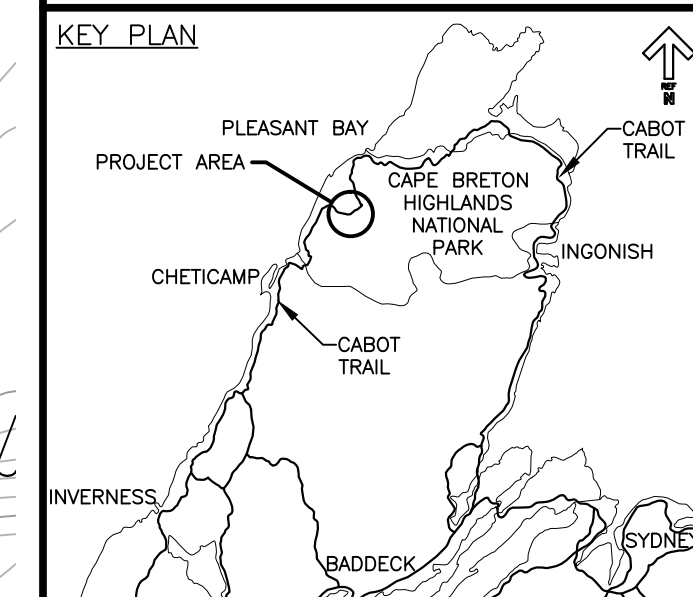
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drawing no. no. du dessein

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LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- CULVERT
- SIGN
- BUILDING
- BH-01 BOREHOLE
- BELL ALIANT JUNCTION BOX
- BELL ALIANT COMM. CABLES

LEGEND NEW

- EDGE OF PAVE
- ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- ASPHALT GUTTER
- DITCH LINE
- DITCH DRAINAGE
- DAYLIGHT (TOP)
- DAYLIGHT (TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
- CULVERT
- RIP-RAP



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revisions		date

project CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK

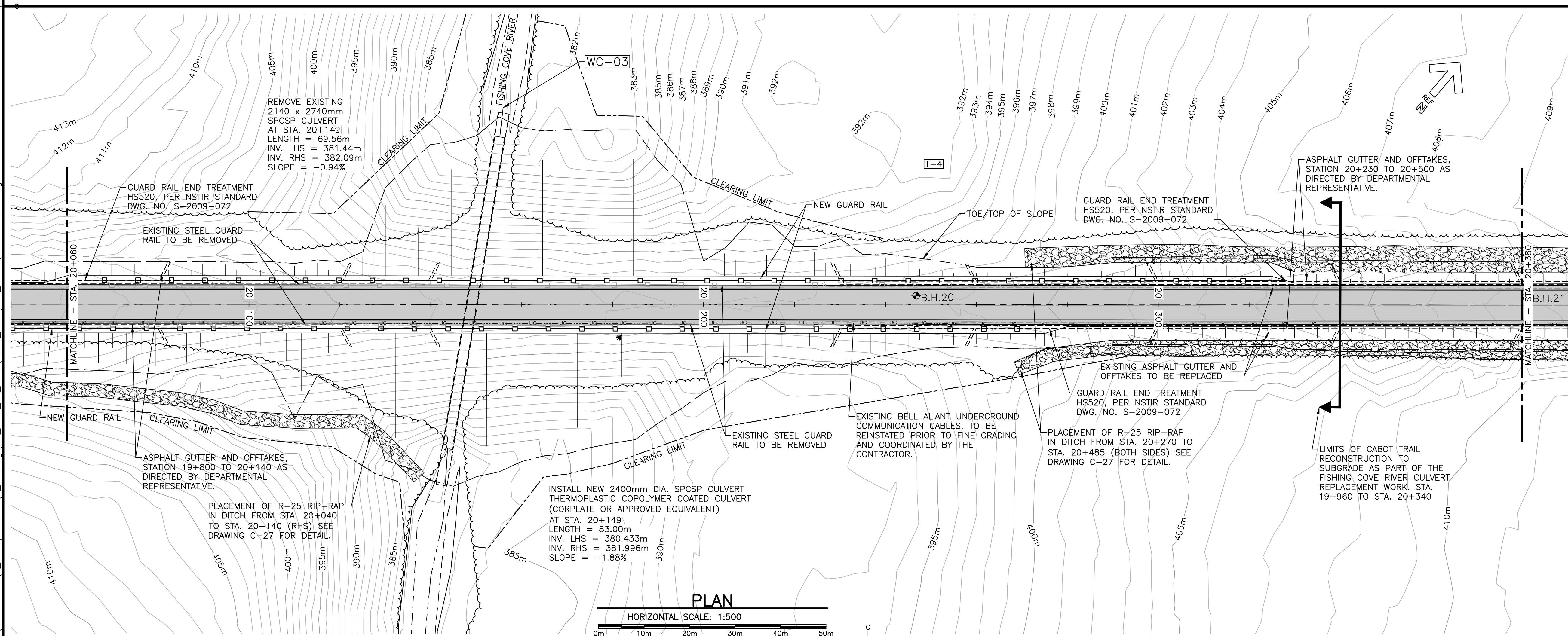
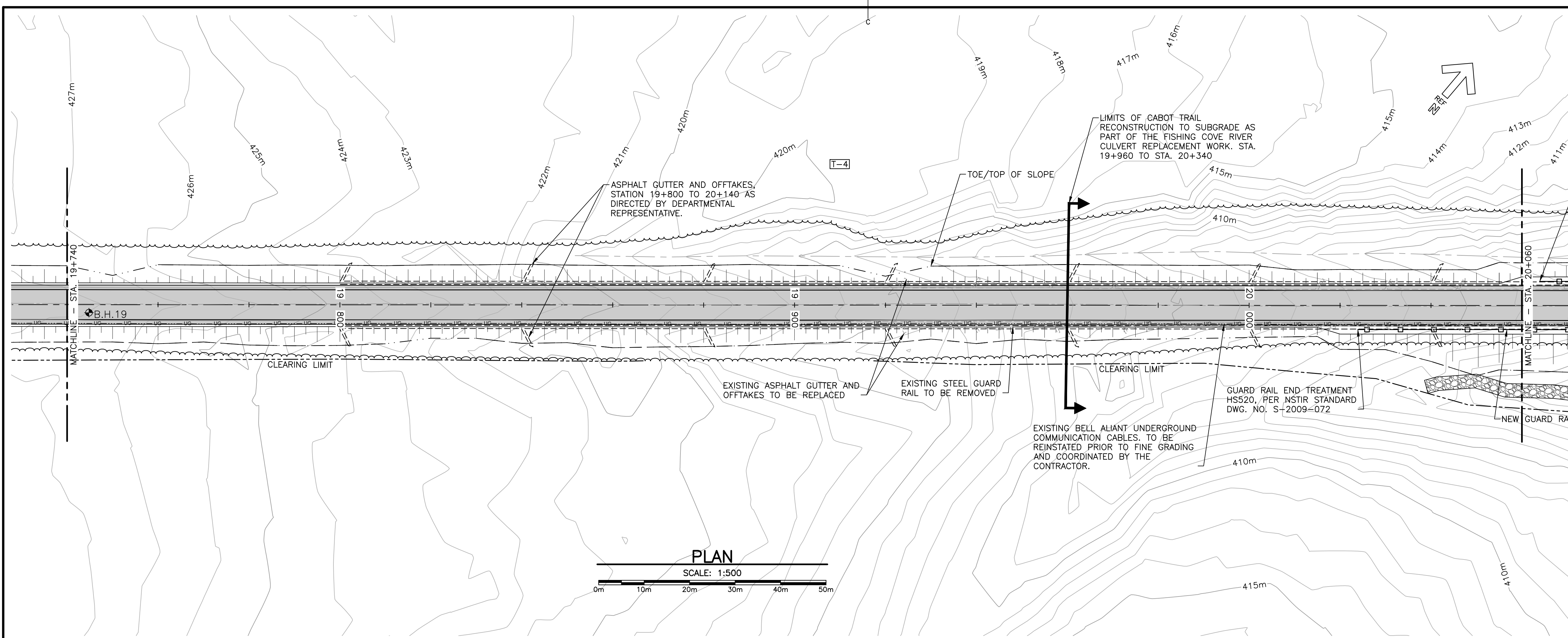
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PLANS
STA. 19+740 TO
STA. 20+380

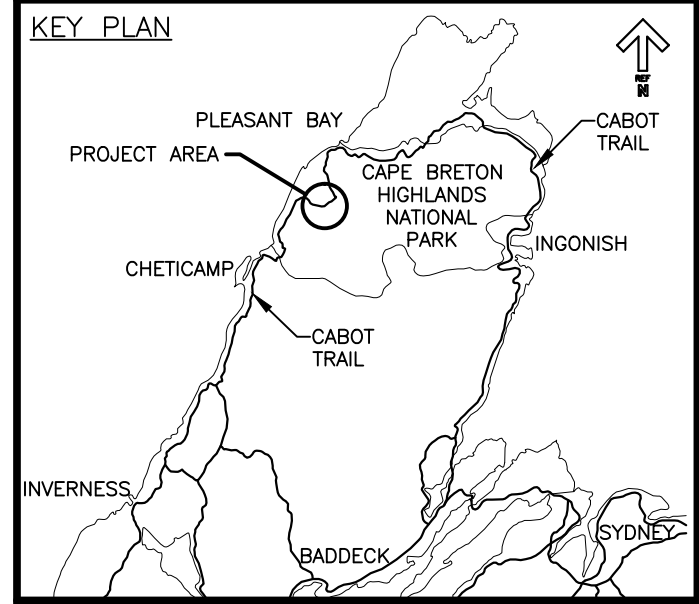
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PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

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- LEGEND EXISTING**
- 8m CONTOUR & ELEVATION
 - ☉ ROADWAY
 - EDGE OF PAVE
 - GUARD RAIL
 - ASPHALT GUTTER
 - DAYLIGHT
 - EDGE OF GRAVEL
 - EDGE OF TREES
 - WATERCOURSE BOUNDARY
 - CULVERT
 - SIGN
 - BUILDING
 - ◆ BH-01 BOREHOLE
 - ▲ BELL ALIANT JUNCTION BOX
 - BELL ALIANT COMM. CABLES

- LEGEND NEW**
- EDGE OF PAVE
 - ☉ ROADWAY
 - EDGE OF PAVE
 - SHOULDER
 - GUARD RAIL
 - ASPHALT GUTTER
 - DITCH LINE
 - DITCH DRAINAGE
 - DAYLIGHT (TOP)
 - DAYLIGHT (TOE)
 - EDGE OF GRAVEL
 - CLEARING LIMIT
 - CULVERT
 - RIP-RAP



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revisions		date

project project
**CABOT TRAIL REHABILITATION
 FRENCH TO MACKENZIE
 KM 15.9 TO 21.9
 CAPE BRETON HIGHLANDS
 NATIONAL PARK**

drawing dessin

**PROFILE
 STA. 19+740 TO
 STA. 20+060**

designed DSC conçu

date FEB. 20, 2017

drawn JLD dessiné

date FEB. 20, 2017

approved RMB approuvé

date FEB. 20, 2017

Tender Soumission

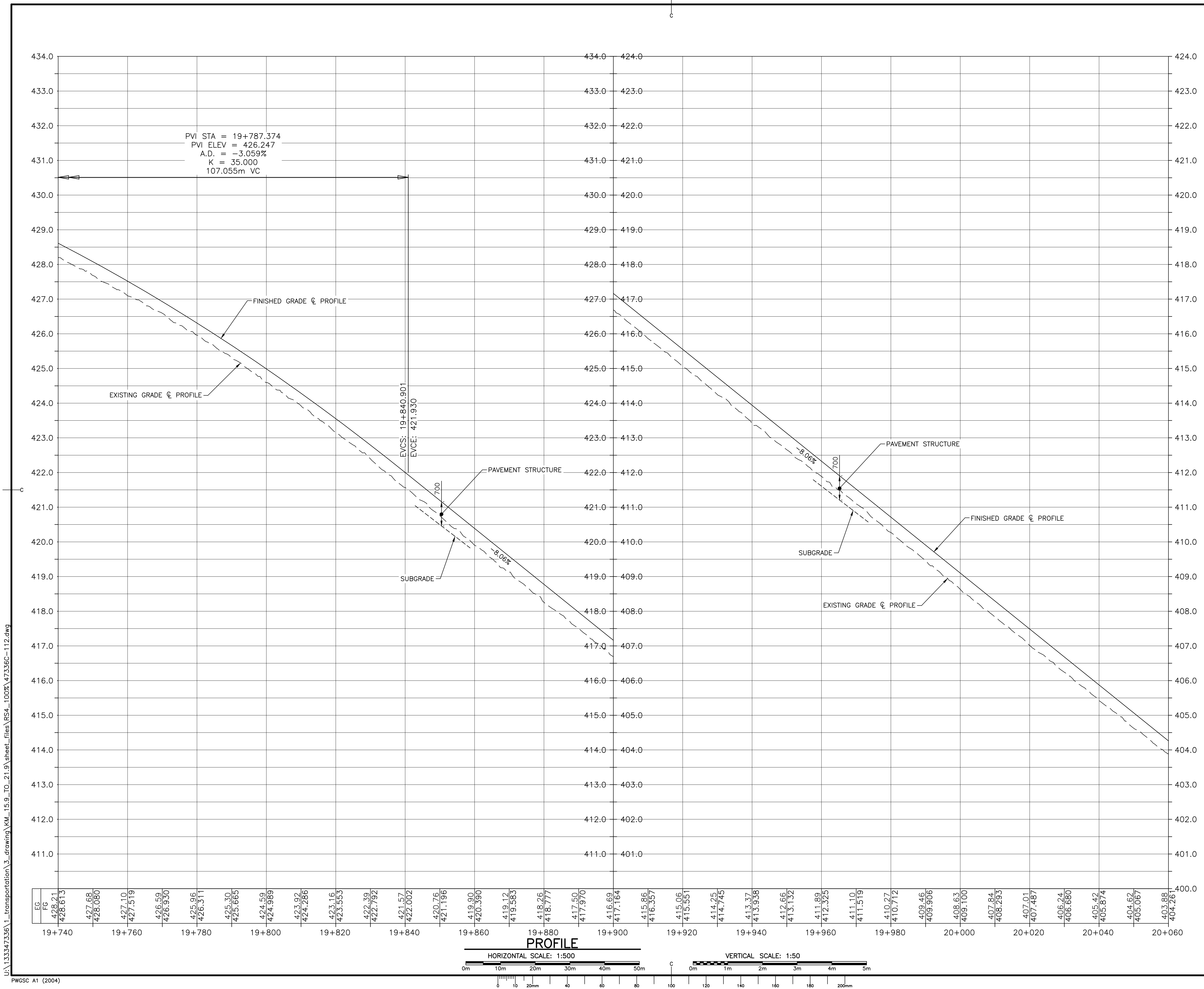
PCA Project Manager Administrateur de projets PCA

project number no. du projet

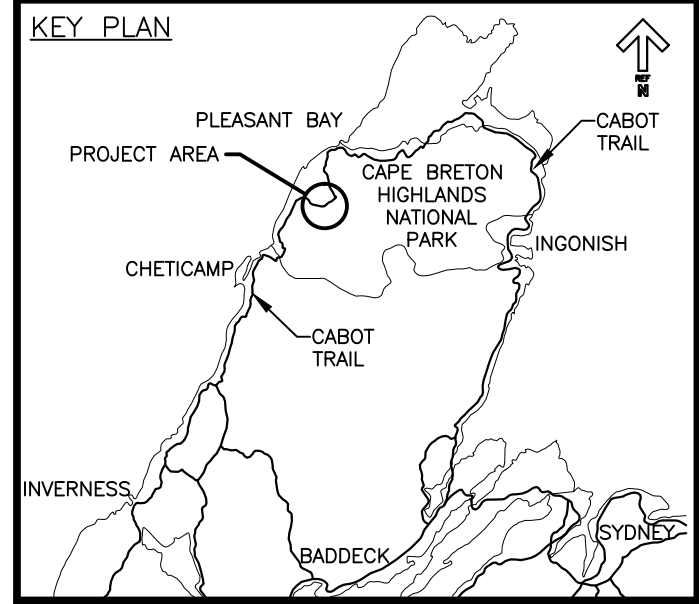
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drawing no. no. du dessin

C-15



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- LEGEND EXISTING**
- 8m CONTOUR & ELEVATION
 - ROADWAY
 - EDGE OF PAVE
 - GUARD RAIL
 - ASPHALT GUTTER
 - DAYLIGHT
 - EDGE OF GRAVEL
 - EDGE OF TREES
 - WATERCOURSE BOUNDARY
 - CULVERT
 - SIGN
 - BUILDING
 - BH-01 BOREHOLE
 - BELL ALIANT JUNCTION BOX
 - BELL ALIANT COMM. CABLES
- LEGEND NEW**
- EDGE OF PAVE
 - ROADWAY
 - EDGE OF PAVE
 - SHOULDER
 - GUARD RAIL
 - ASPHALT GUTTER
 - DITCH LINE
 - DITCH DRAINAGE
 - DAYLIGHT (TOP)
 - DAYLIGHT (TOE)
 - EDGE OF GRAVEL
 - CLEARING LIMIT
 - CULVERT
 - RIP-RAP



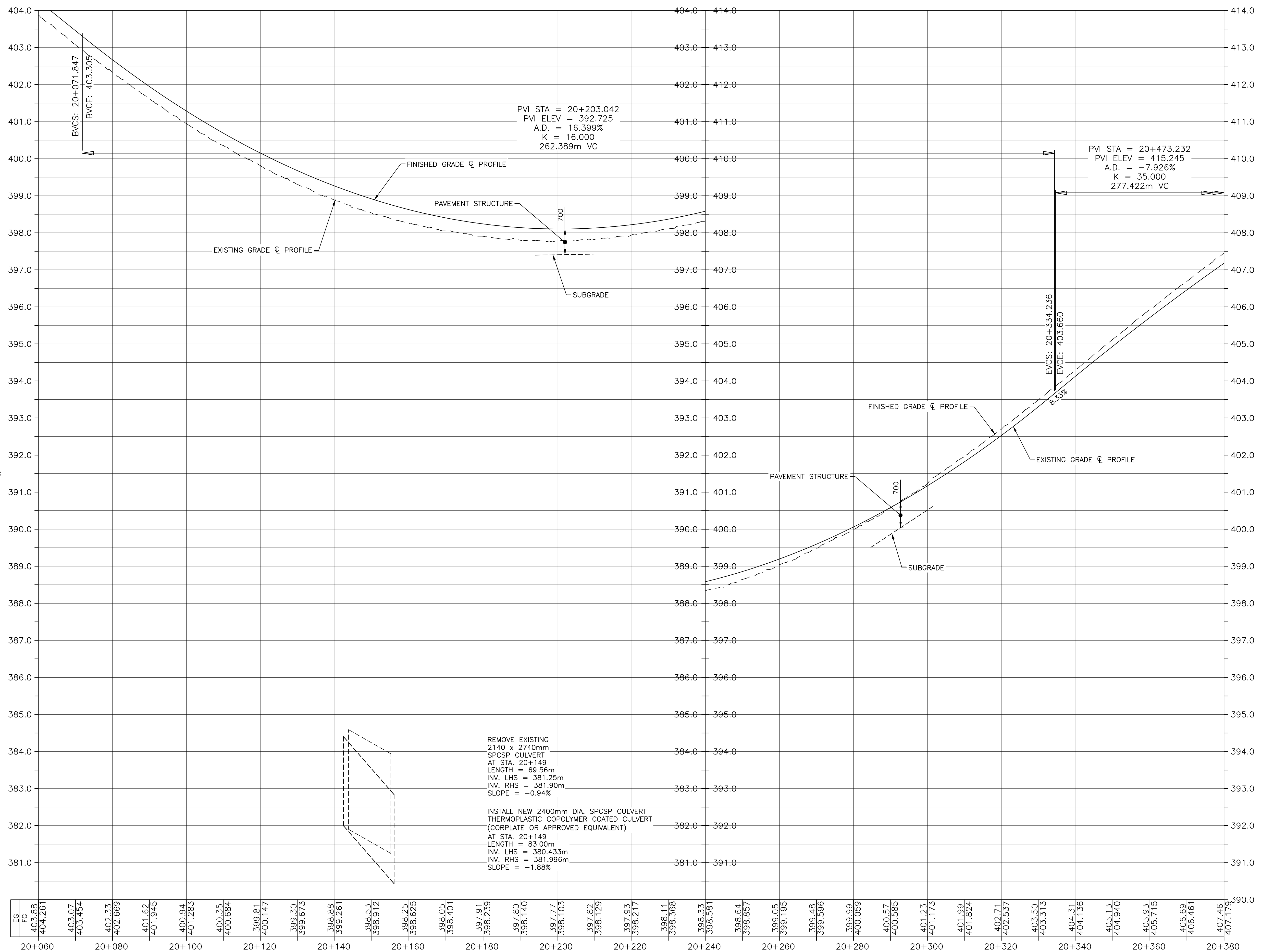
0	ISSUED FOR TENDER	FEB. 20 2017
revisions		date

project CABOT TRAIL REHABILITATION
 FRENCH TO MACKENZIE
 KM 15.9 TO 21.9
 CAPE BRETON HIGHLANDS NATIONAL PARK

designed DSC conçu
 date FEB. 20, 2017
 drawn JLD dessiné
 date FEB. 20, 2017
 approved RMB approuvé
 date FEB. 20, 2017

PROFILE
 STA. 20+060 TO
 STA. 20+380

Tender Soumission
 PCA Project Manager Administrateur de projets PCA
 project number 1114 no. du projet
 drawing no. C-16 no. du dessin

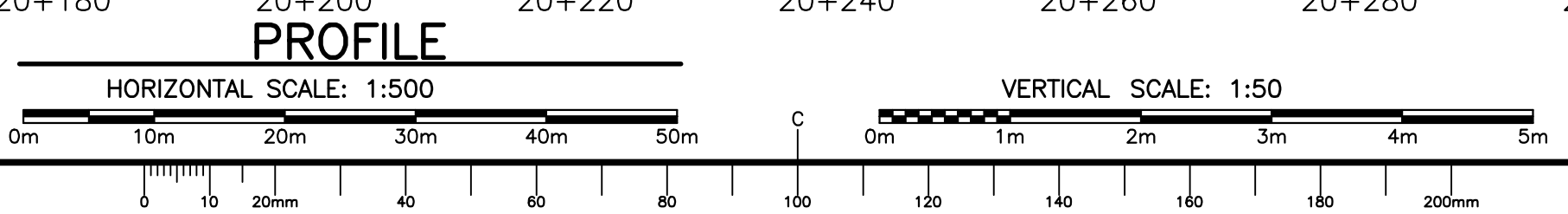


PVI STA = 20+203.042
 PVI ELEV = 392.725
 A.D. = 16.399%
 K = 16.000
 262.389m VC

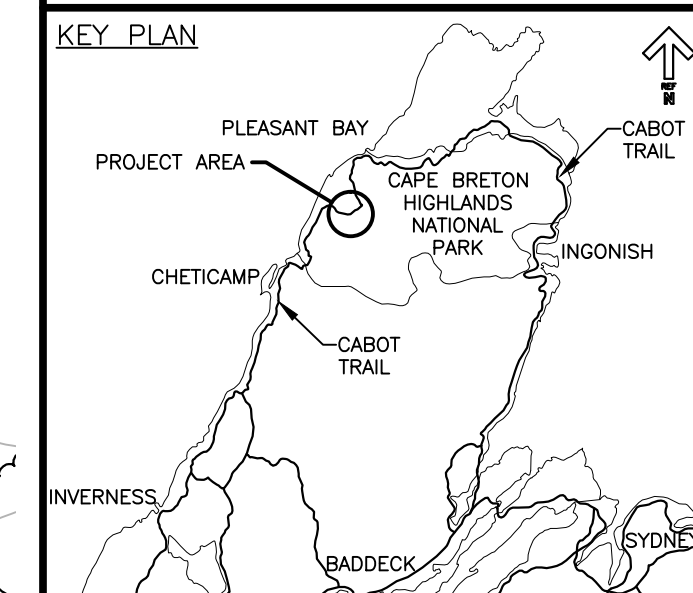
PVI STA = 20+473.232
 PVI ELEV = 415.245
 A.D. = -7.926%
 K = 35.000
 277.422m VC

REMOVE EXISTING
 2140 x 2740mm
 SPCSP CULVERT
 AT STA. 20+149
 LENGTH = 69.56m
 INV. LHS = 381.25m
 INV. RHS = 381.90m
 SLOPE = -0.94%

INSTALL NEW 2400mm DIA. SPCSP CULVERT
 THERMOPLASTIC COPOLYMER COATED CULVERT
 (CORPLATE OR APPROVED EQUIVALENT)
 AT STA. 20+149
 LENGTH = 83.00m
 INV. LHS = 380.433m
 INV. RHS = 381.996m
 SLOPE = -1.88%



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LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- CULVERT
- SIGN
- BUILDING
- BH-01 BOREHOLE
- BELL ALIANT JUNCTION BOX
- BELL ALIANT COMM. CABLES

LEGEND NEW

- EDGE OF PAVE
- ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- ASPHALT GUTTER
- DITCH LINE
- DITCH DRAINAGE
- DAYLIGHT (TOP)
- DAYLIGHT (TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
- CULVERT
- RIP-RAP



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revisions		date

**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

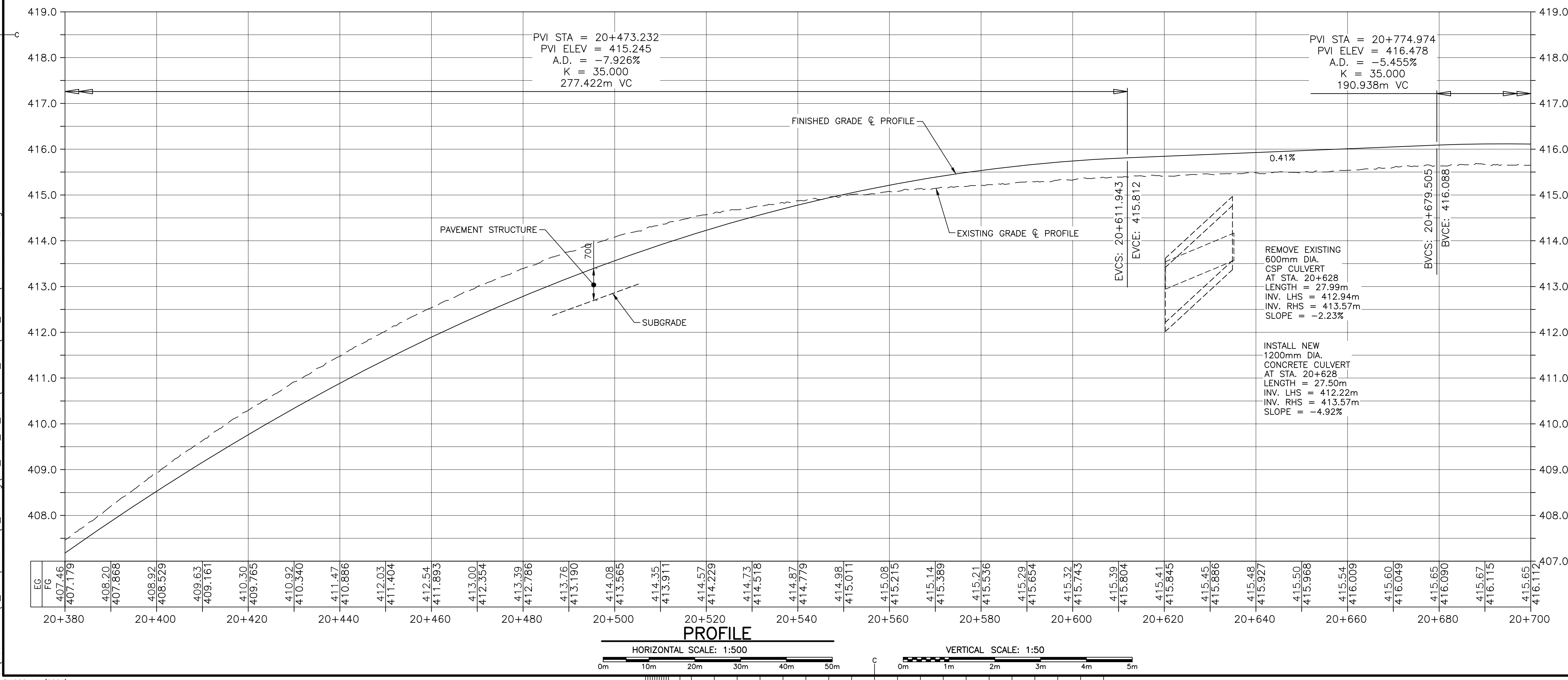
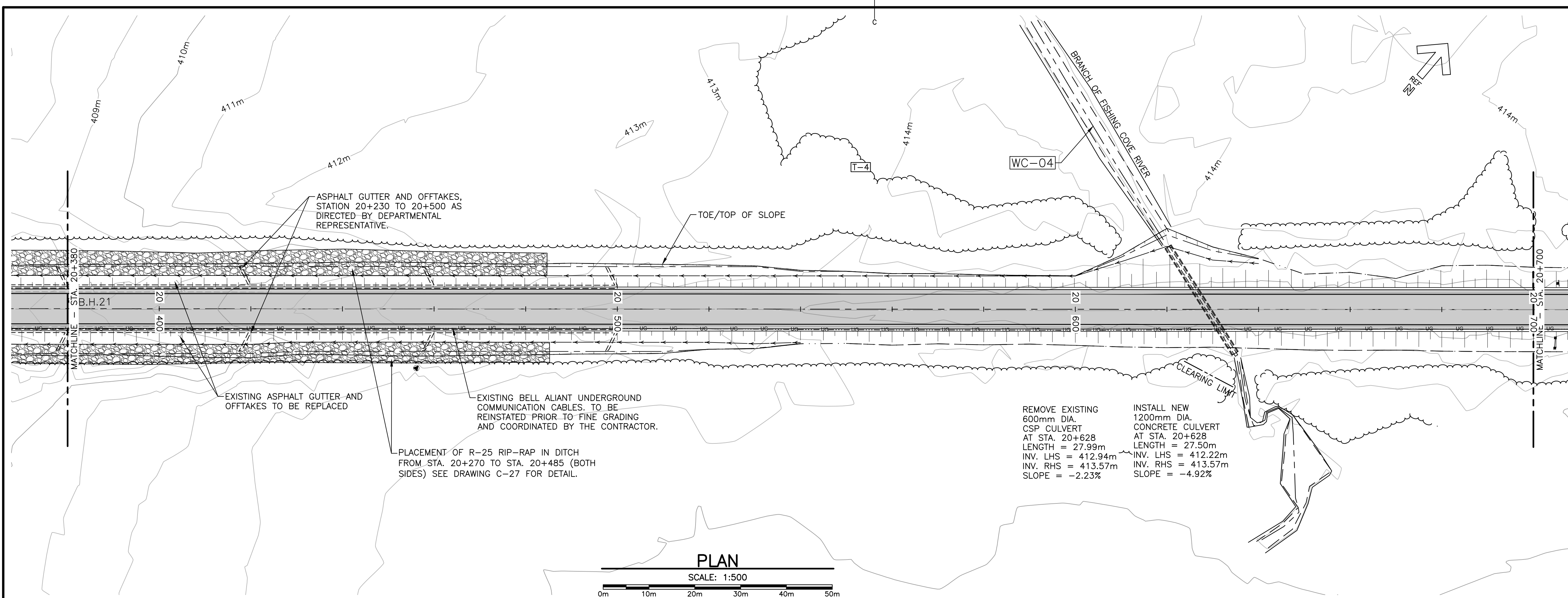
drawing dessein

**PLAN AND PROFILE
STA. 20+380 TO
STA. 20+700**

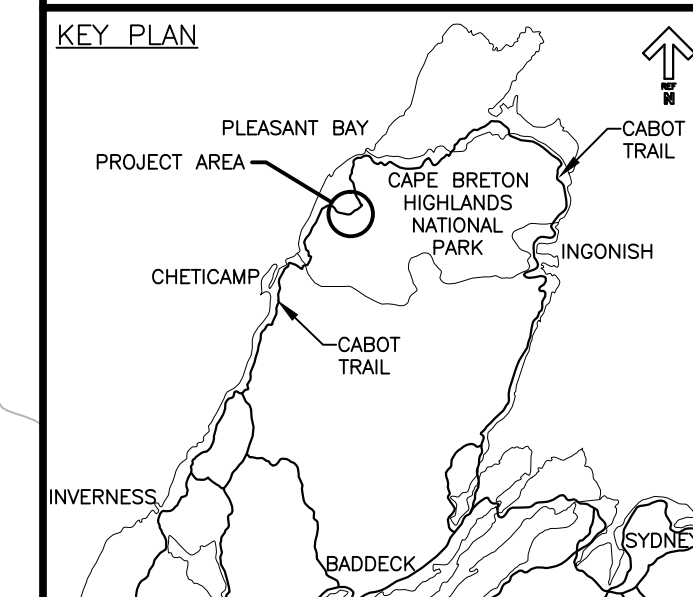
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drawn JLD	dessiné
date FEB. 20, 2017	
approved RMB	approuvé
date FEB. 20, 2017	

Tender Soumission
PCA Project Manager Administrateur de projets PCA

project number	no. du projet
1114	
drawing no.	no. du dessein
C-17	



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LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- CULVERT
- SIGN
- BUILDING
- BH-01 BOREHOLE
- BELL ALIANT JUNCTION BOX
- BELL ALIANT COMM. CABLES

LEGEND NEW

- EDGE OF PAVE
- ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- ASPHALT GUTTER
- DITCH LINE
- DITCH DRAINAGE
- DAYLIGHT (TOP)
- DAYLIGHT (TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
- CULVERT
- RIP-RAP



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revisions		date

**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessein

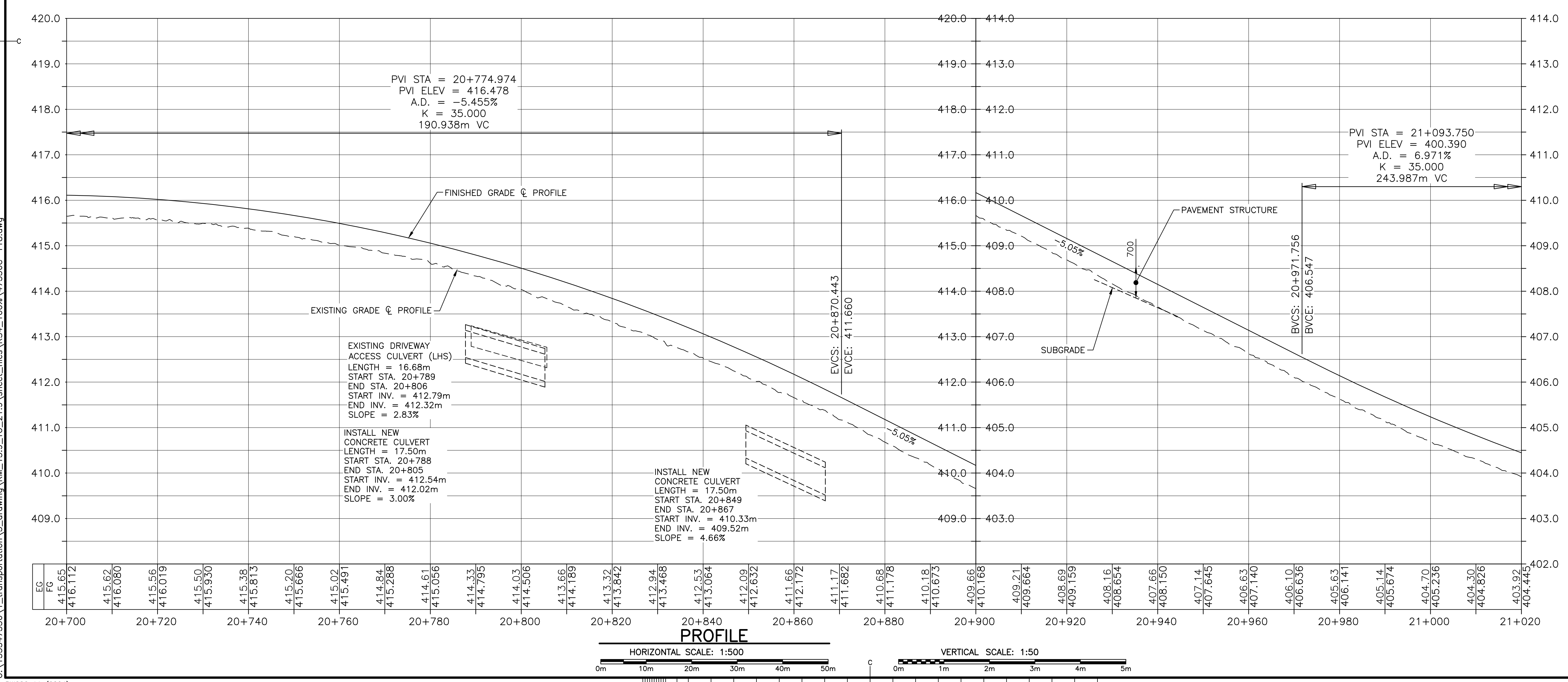
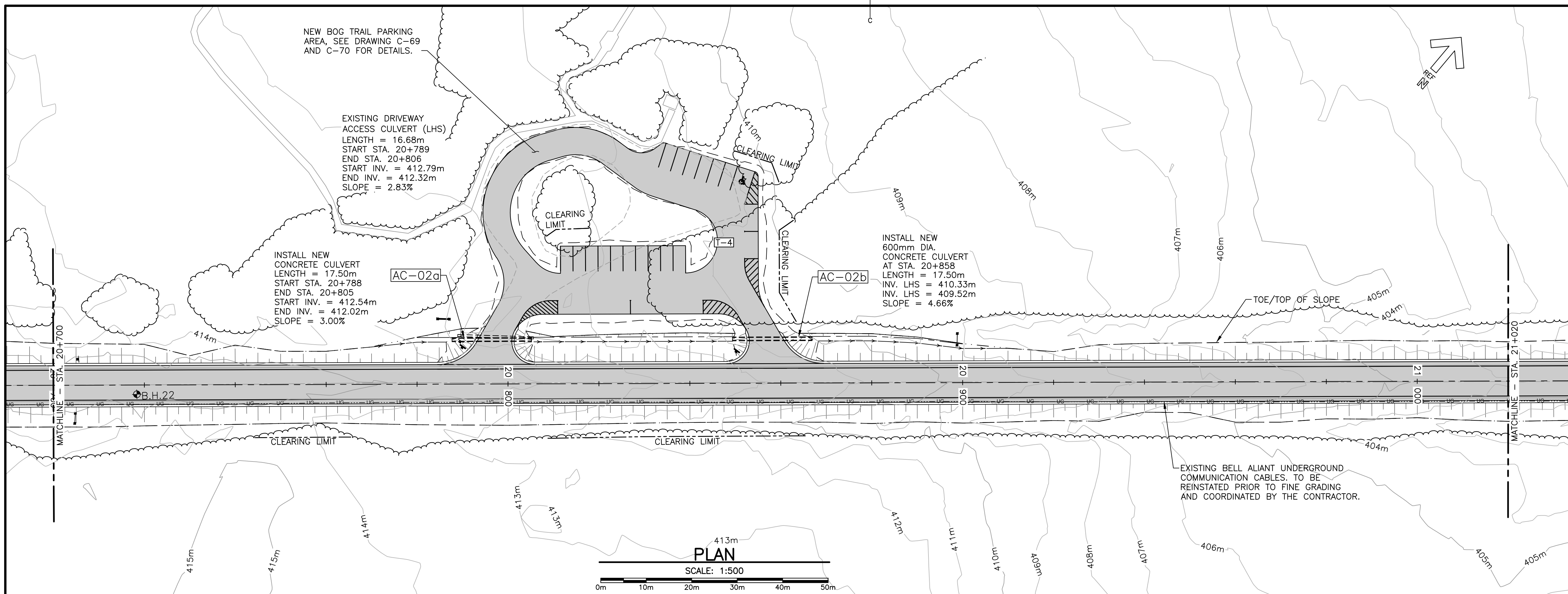
**PLAN AND PROFILE
STA. 20+700 TO
STA. 21+020**

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date FEB. 20, 2017	
drawn JLD	dessiné
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approved RMB	approuvé
date FEB. 20, 2017	

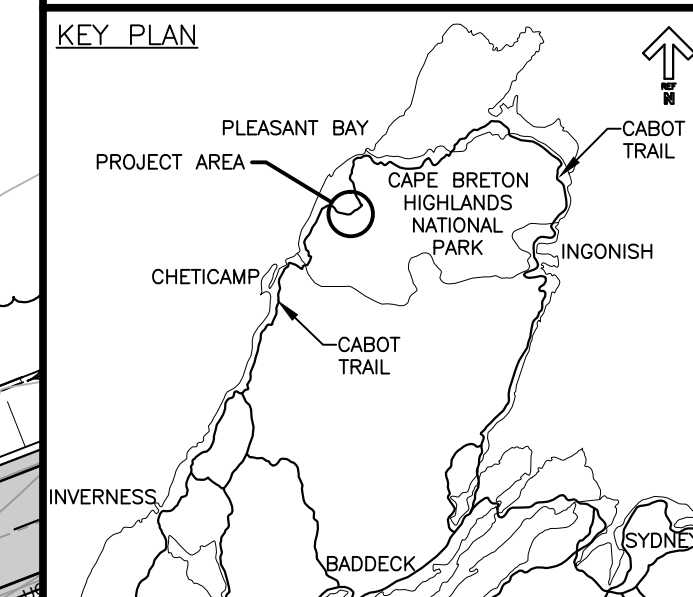
Tender Soumission
PCA Project Manager Administrateur de projets PCA

project number 1114 no. du projet

drawing no. C-18 no. du dessin



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LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- CULVERT
- SIGN
- BUILDING
- BH-01 BOREHOLE
- BELL ALIANT JUNCTION BOX
- BELL ALIANT COMM. CABLES

LEGEND NEW

- EDGE OF PAVE
- ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- ASPHALT GUTTER
- DITCH LINE
- DITCH DRAINAGE
- DAYLIGHT (TOP)
- DAYLIGHT (TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
- CULVERT
- RIP-RAP



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revisions		date

**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessein

**PLAN AND PROFILE
STA. 21+020 TO
STA. 21+340**

designed DSC conçu

date FEB. 20, 2017

drawn JLD dessiné

date FEB. 20, 2017

approved RMB approuvé

date FEB. 20, 2017

Tender Soumission

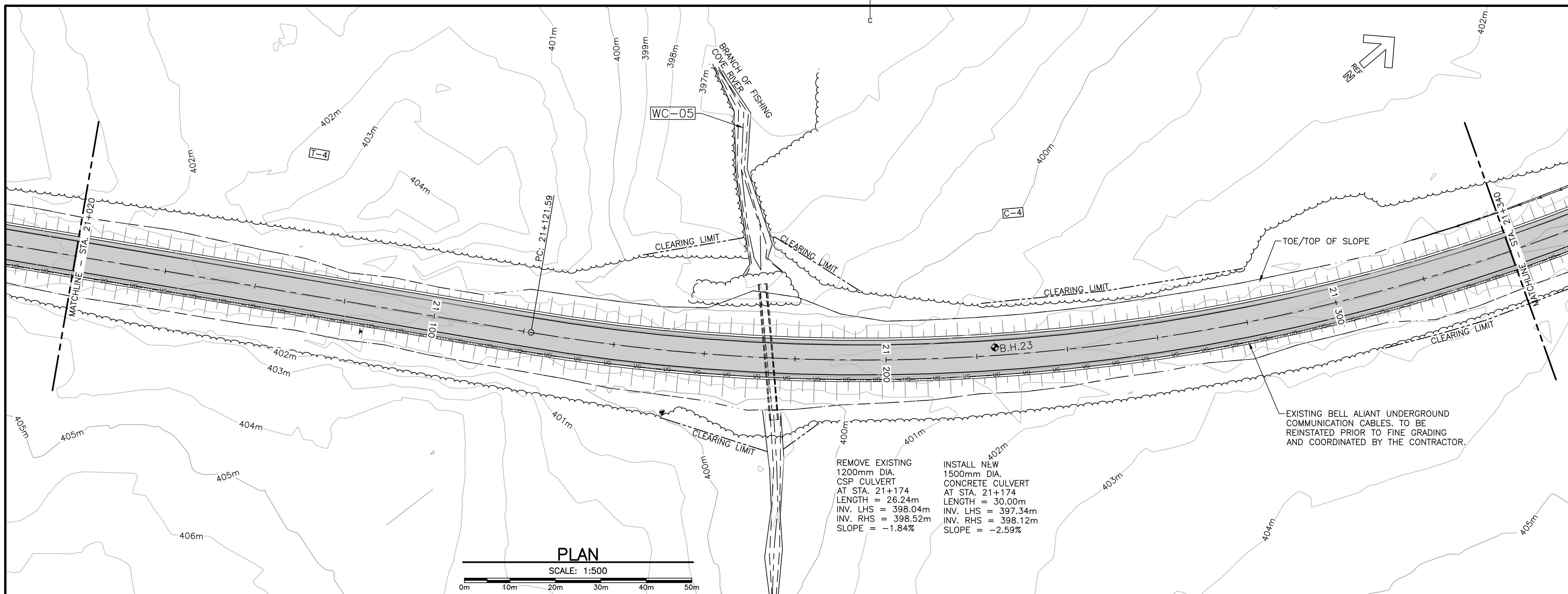
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drawing no. no. du dessin

C-19



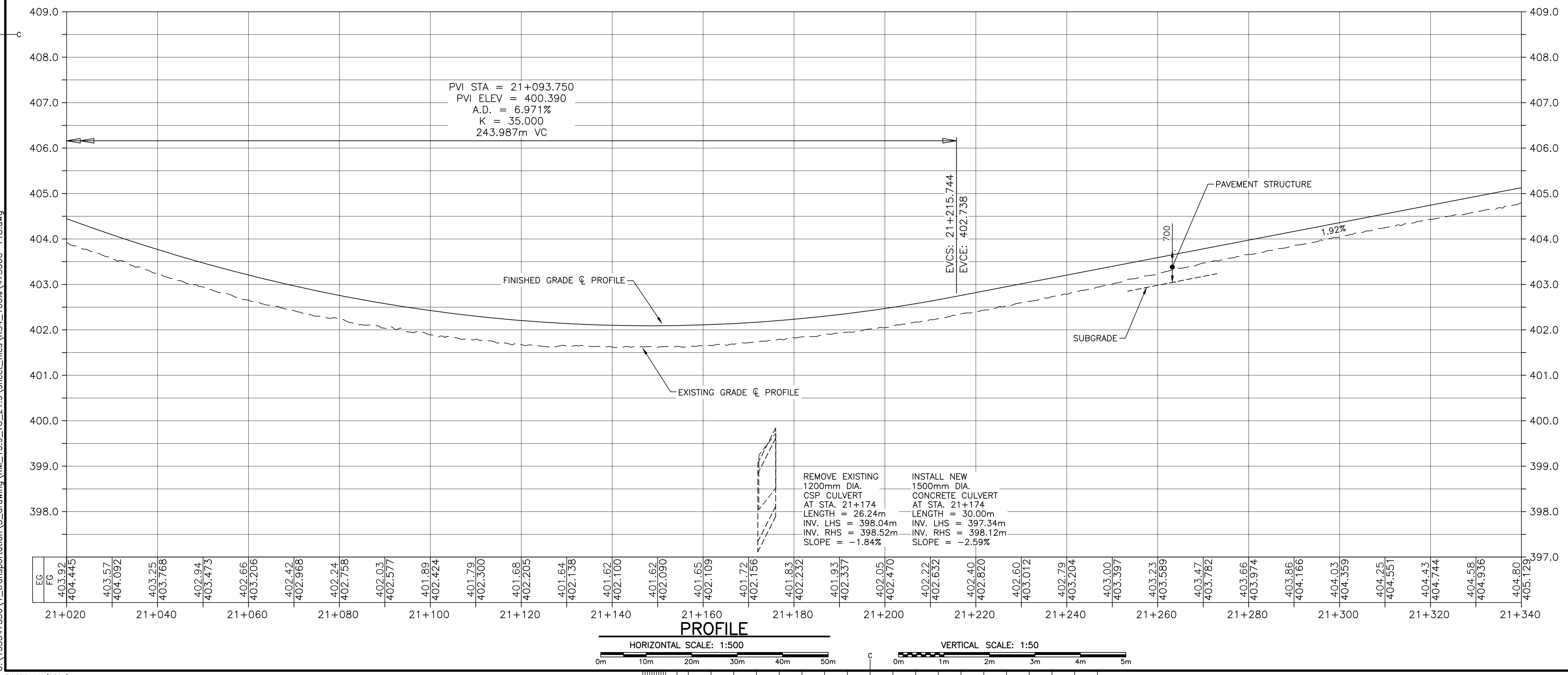
REMOVE EXISTING
1200mm DIA.
CSP CULVERT
AT STA. 21+174
LENGTH = 26.24m
INV. LHS = 398.04m
INV. RHS = 398.52m
SLOPE = -1.84%

INSTALL NEW
1500mm DIA.
CONCRETE CULVERT
AT STA. 21+174
LENGTH = 30.00m
INV. LHS = 397.34m
INV. RHS = 398.12m
SLOPE = -2.59%

EXISTING BELL ALIANT UNDERGROUND
COMMUNICATION CABLES. TO BE
REINSTATED PRIOR TO FINE GRADING
AND COORDINATED BY THE CONTRACTOR.

PLAN

SCALE: 1:500



PVI STA = 21+093.750
PVI ELEV = 400.390
A.D. = 6.971%
K = 35.000
243.987m VC

EVCS: 21+215.744
EVCE: 402.738

REMOVE EXISTING
1200mm DIA.
CSP CULVERT
AT STA. 21+174
LENGTH = 26.24m
INV. LHS = 398.04m
INV. RHS = 398.52m
SLOPE = -1.84%

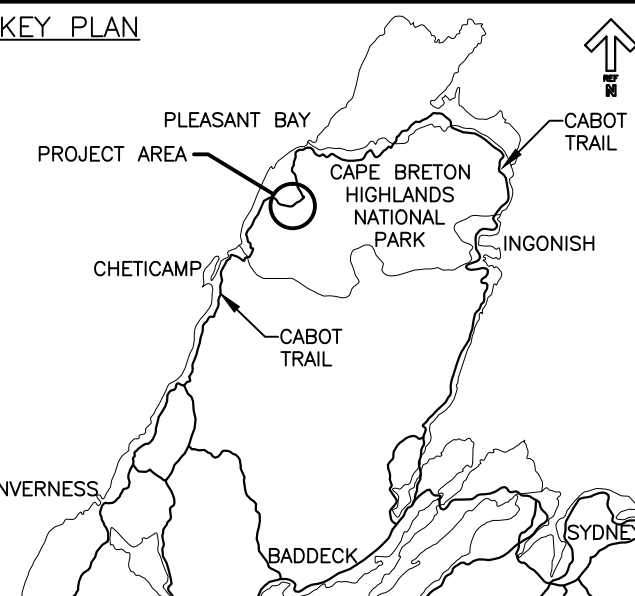
INSTALL NEW
1500mm DIA.
CONCRETE CULVERT
AT STA. 21+174
LENGTH = 30.00m
INV. LHS = 397.34m
INV. RHS = 398.12m
SLOPE = -2.59%

PROFILE

HORIZONTAL SCALE: 1:500

VERTICAL SCALE: 1:50

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LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ☉ ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- CULVERT
- SIGN
- BUILDING
- ⊕ BH-01 BOREHOLE
- BELL ALIANT JUNCTION BOX
- BELL ALIANT COMM. CABLES

LEGEND NEW

- EDGE OF PAVE
- ☉ ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- ASPHALT GUTTER
- DITCH LINE
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- DAYLIGHT (TOP)
- DAYLIGHT (TOE)
- EDGE OF GRAVEL
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- CULVERT
- RIP-RAP



0	ISSUED FOR TENDER	FEB. 20 2017
revisions		date

**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessein

**PLAN AND PROFILE
STA. 21+340 TO
STA. 21+660**

designed DSC conçu

date FEB. 20, 2017

drawn JLD dessiné

date FEB. 20, 2017

approved RMB approuvé

date FEB. 20, 2017

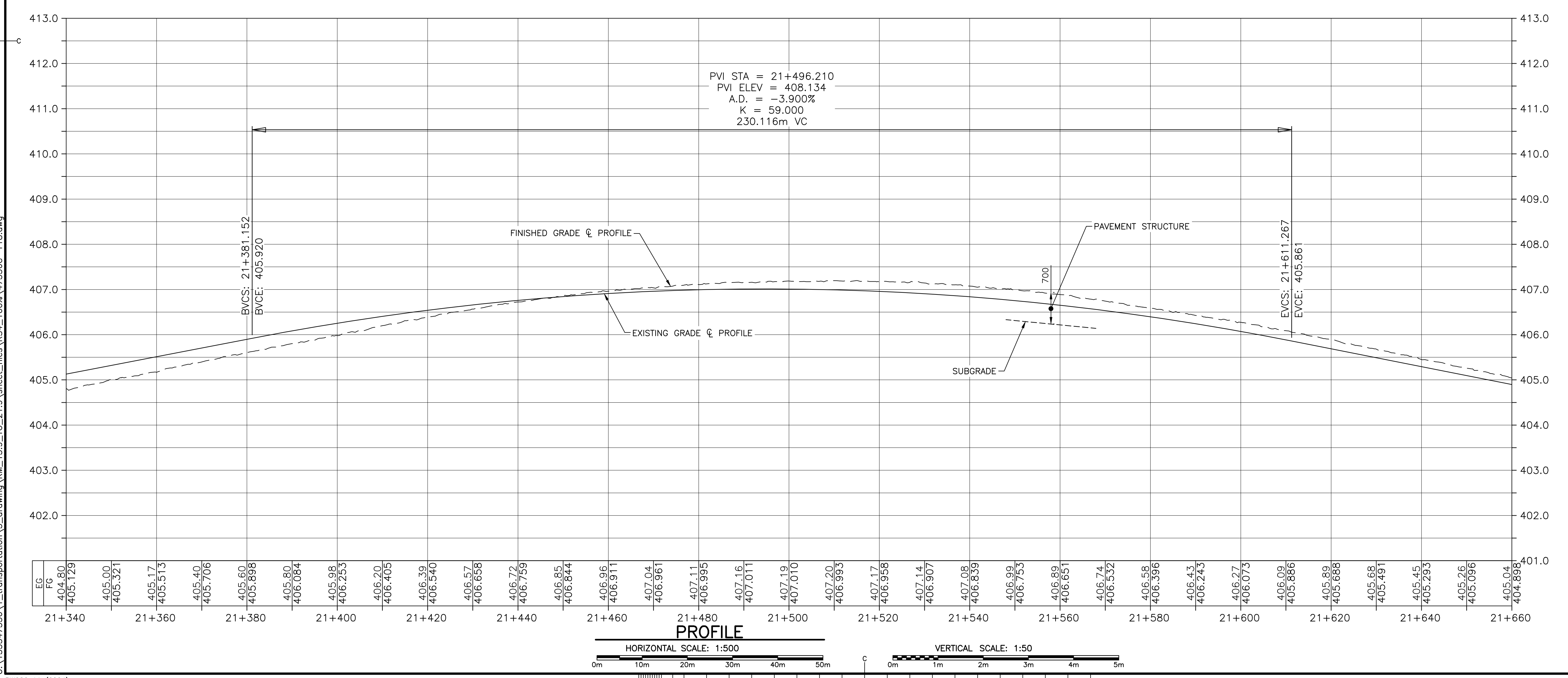
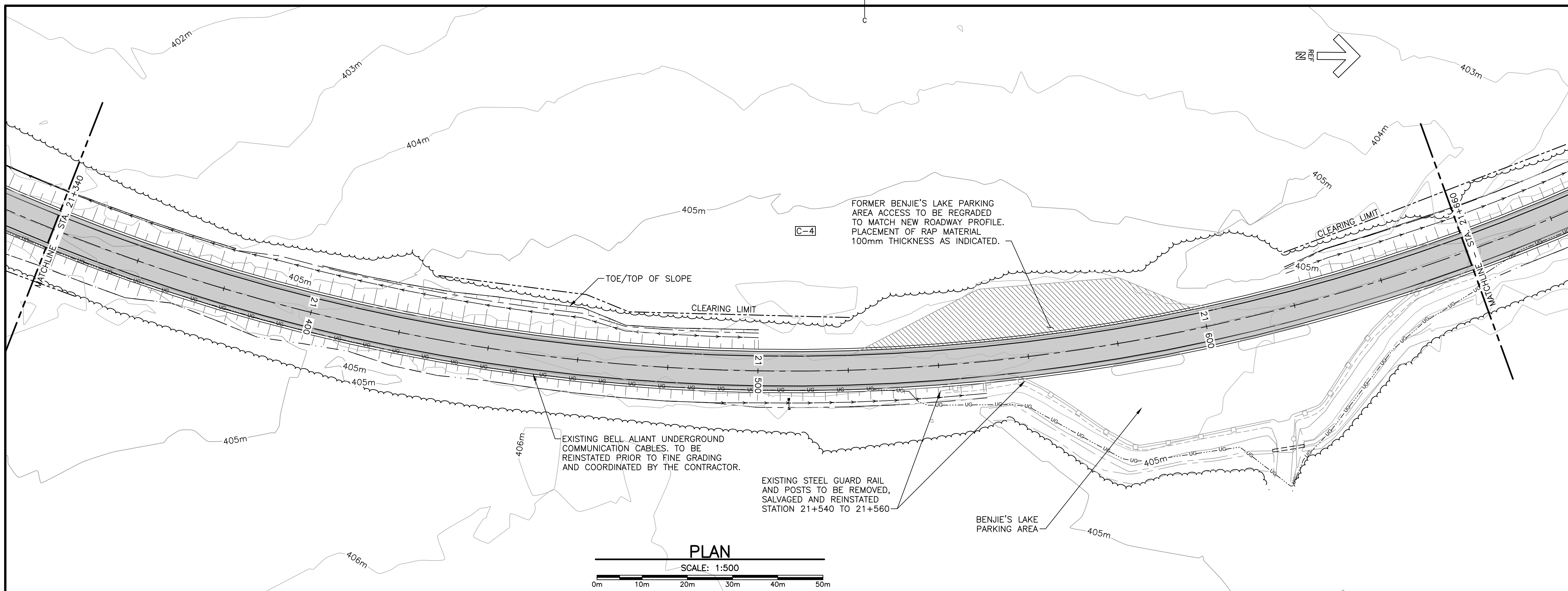
Tender Soumission
PCA Project Manager Administrateur de projets PCA

project number no. du projet

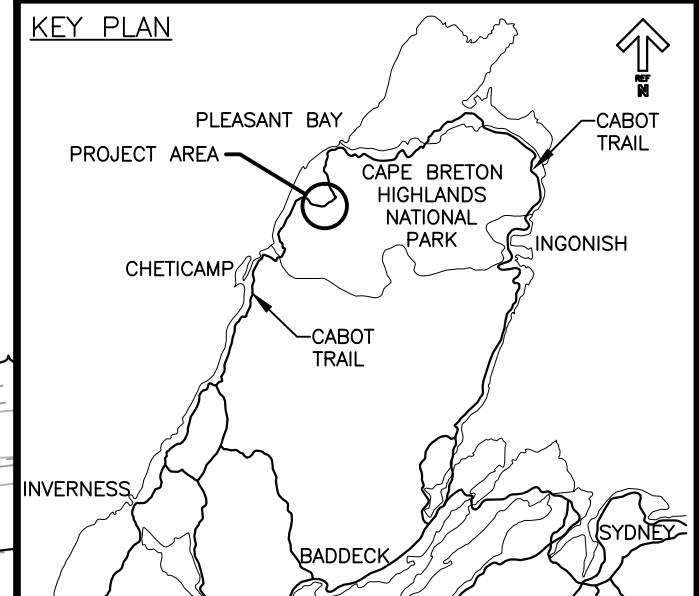
1114

drawing no. no. du dessein

C-20



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LEGEND EXISTING	
8m	CONTOUR & ELEVATION
⊕	ROADWAY
—	EDGE OF PAVE
—	GUARD RAIL
—	ASPHALT GUTTER
—	DAYLIGHT
—	EDGE OF GRAVEL
—	EDGE OF TREES
—	WATERCOURSE BOUNDARY
—	CULVERT
—	SIGN
—	BUILDING
⊕ BH-01	BOREHOLE
—	BELL ALIANT JUNCTION BOX
—	BELL ALIANT COMM. CABLES

LEGEND NEW	
—	EDGE OF PAVE
⊕	ROADWAY
—	EDGE OF PAVE
—	SHOULDER
—	GUARD RAIL
—	ASPHALT GUTTER
—	DITCH LINE
—	DITCH DRAINAGE
—	DAYLIGHT (TOP)
—	DAYLIGHT (TOE)
—	EDGE OF GRAVEL
—	CLEARING LIMIT
—	CULVERT
—	RIP-RAP



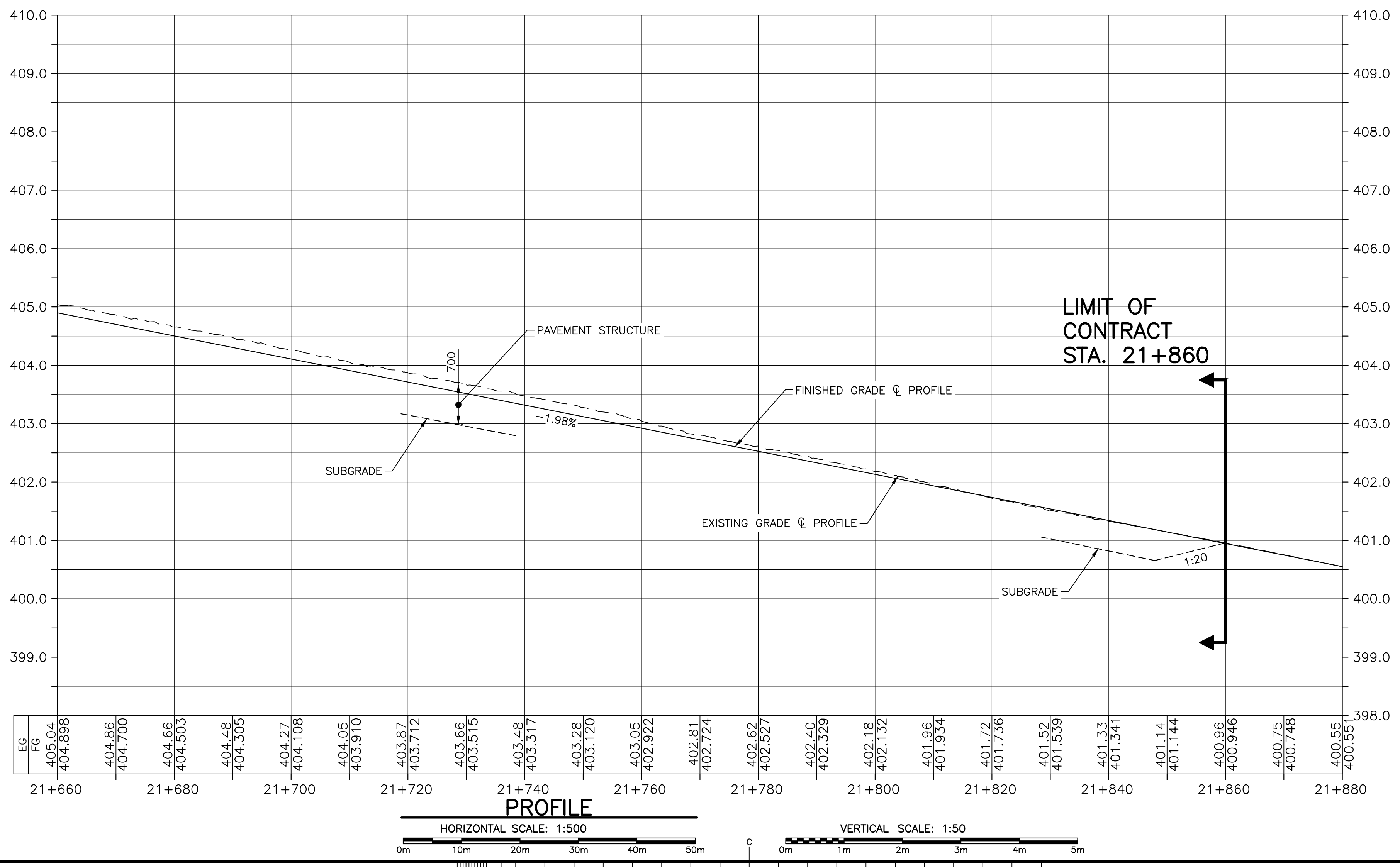
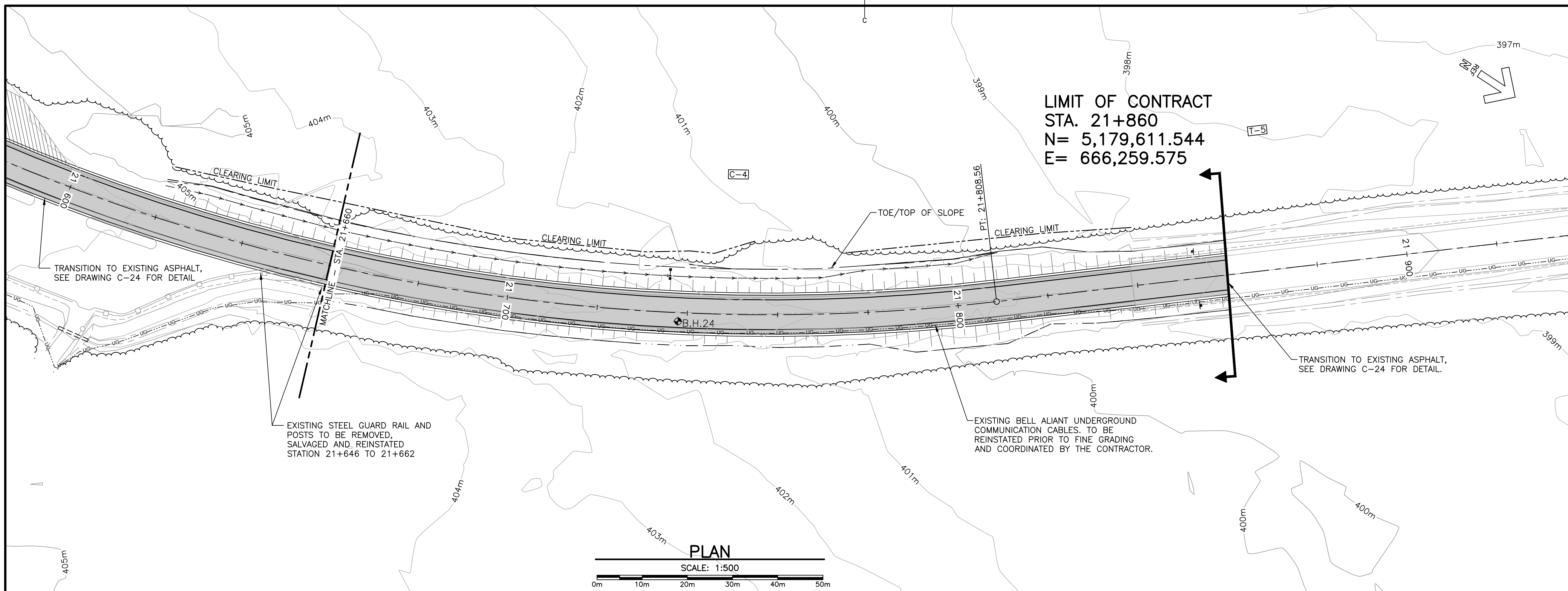
0	ISSUED FOR TENDER	FEB. 20 2017
revisions		date

project CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK

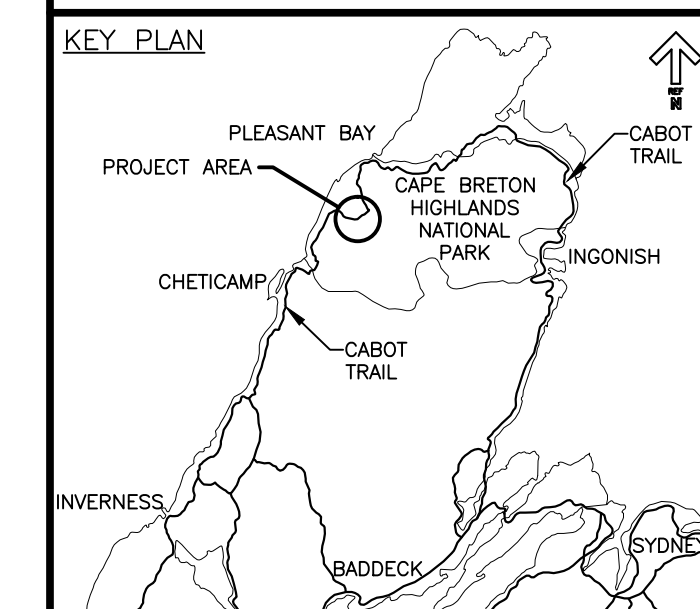
drawing PLAN AND PROFILE
STA. 21+660 TO
STA. 21+860

designed DSC	conçu
date FEB. 20, 2017	
drawn JLD	dessiné
date FEB. 20, 2017	
approved RMB	approuvé
date FEB. 20, 2017	
Tender	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

1114
drawing no. C-21 no. du dessin



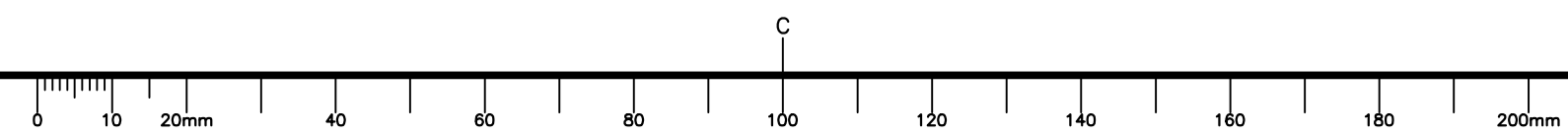
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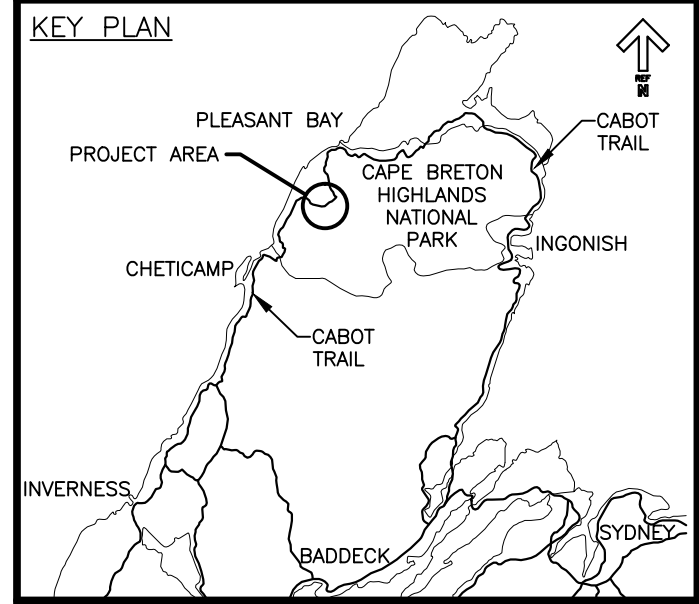
CABOT TRAIL KM 15.9 TO 21.9 ALIGNMENT GEOMETRY								
ID	SEGMENT TYPE	LENGTH (m)	RADIUS (m)	TANGENT OR CHORD AZIMUTH	BEGIN STATION	PI OR A	END STATION	DELTA Δ
T-1	TANGENT	405.299		144° 57' 43.62"	STA: 15+859.746 E: 661,837.534 N: 5,178,149.433		STA: 16+265.045 E: 662,070.223 N: 5,177,817.585	
C-1	CURVE	381.061	440.000	120° 09' 06.05"	STA: 16+265.045 E: 662,070.223 N: 5,177,817.585	E: 662,187.002 N: 5,177,651.042	STA: 16+646.105 E: 662,389.524 N: 5,177,632.108	49° 37' 15.1"
T-2	TANGENT	250.669		95° 20' 28.49"	STA: 16+646.105 E: 662,389.524 N: 5,177,632.108		STA: 16+896.774 E: 662,639.105 N: 5,177,608.774	
C-2	CURVE	158.375	1200.000	99° 07' 19.80"	STA: 16+896.774 E: 662,639.105 N: 5,177,608.774	E: 662,718.063 N: 5,177,601.392	STA: 17+055.149 E: 662,795.363 N: 5,177,583.683	7° 33' 42.6"
T-3	TANGENT	1239.366		102° 54' 11.12"	STA: 17+055.149 E: 662,795.363 N: 5,177,583.683		STA: 18+294.515 E: 664,003.434 N: 5,177,306.929	
C-3	CURVE	406.487	440.000	76° 26' 13.79"	STA: 18+294.515 E: 664,003.434 N: 5,177,306.929	E: 664,216.952 N: 5,177,258.015	STA: 18+701.002 E: 664,384.683 N: 5,177,398.902	52° 55' 54.7"
T-4	TANGENT	2420.584		49° 58' 16.46"	STA: 18+701.002 E: 664,384.683 N: 5,177,398.902		STA: 21+121.586 E: 666,238.176 N: 5,178,955.753	
C-4	CURVE	686.979	438.000	5° 02' 19.03"	STA: 21+121.586 E: 666,238.176 N: 5,178,955.753	E: 666,572.774 N: 5,179,236.801	STA: 21+808.565 E: 666,292.515 N: 5,179,572.059	89° 51' 54.9"
T-5	TANGENT	191.435		320° 06' 21.61"	STA: 21+808.565 E: 666,292.515 N: 5,179,572.059		STA: 22+000.000 E: 666,169.734 N: 5,179,718.935	

SUPERELEVATION DEVELOPMENT				
CURVE	RADIUS	Emax = 0.051		
STATION	LEFT LANE	CL ELEV.	RIGHT LANE	DESCRIPTION
CURVE C-1 RADIUS = 440.0				
16+219.802	-0.020	408.625	-0.020	NORMAL CROWN
16+237.685	-0.020	408.699	0.000	LEVEL CROWN
16+255.567	-0.020	408.772	0.020	REVERSE CROWN
16+283.285	-0.051	408.886	0.051	BEGIN FULL SUPER
16+627.865	-0.051	410.301	0.051	END FULL SUPER
16+655.583	-0.020	410.415	0.020	REVERSE CROWN
16+673.509	-0.020	410.489	0.000	LEVEL CROWN
16+691.348	-0.020	410.562	-0.020	NORMAL CROWN
CURVE C-2 RADIUS = 1200.0				
Emax = 0.028				
16+841.312	-0.020	413.616	-0.020	NORMAL CROWN
16+871.449	0.000	414.906	-0.020	LEVEL CROWN
16+901.597	0.020	416.423	-0.020	REVERSE CROWN
16+913.654	0.028	417.077	-0.028	BEGIN FULL SUPER
17+038.269	0.028	421.505	-0.028	END FULL SUPER
17+050.326	0.020	421.699	-0.020	REVERSE CROWN
17+080.469	0.000	422.009	-0.020	LEVEL CROWN
17+110.612	-0.020	422.252	-0.020	NORMAL CROWN
CURVE C-3 RADIUS = 440.0				
Emax = 0.051				
18+249.273	-0.020	432.399	-0.020	NORMAL CROWN
18+267.155	0.000	432.915	-0.020	LEVEL CROWN
18+285.037	0.020	433.430	-0.020	REVERSE CROWN
18+312.755	0.051	434.229	-0.051	BEGIN FULL SUPER
18+682.762	0.051	444.890	-0.051	END FULL SUPER
18+710.480	0.020	445.689	-0.020	REVERSE CROWN
18+728.362	0.000	446.204	-0.020	LEVEL CROWN
18+746.245	-0.020	446.720	-0.020	NORMAL CROWN
CURVE C-4 RADIUS = 438.0				
Emax = 0.051				
21+076.344	-0.020	402.831	-0.020	NORMAL CROWN
21+094.226	-0.020	402.509	0.000	LEVEL CROWN
21+112.108	-0.020	402.278	0.020	REVERSE CROWN
21+139.826	-0.051	402.100	0.051	BEGIN FULL SUPER
21+790.325	-0.051	402.323	0.051	END FULL SUPER
21+818.042	-0.020	401.775	0.020	REVERSE CROWN
21+835.925	-0.020	401.422	0.000	LEVEL CROWN
21+853.807	-0.020	401.068	-0.020	NORMAL CROWN

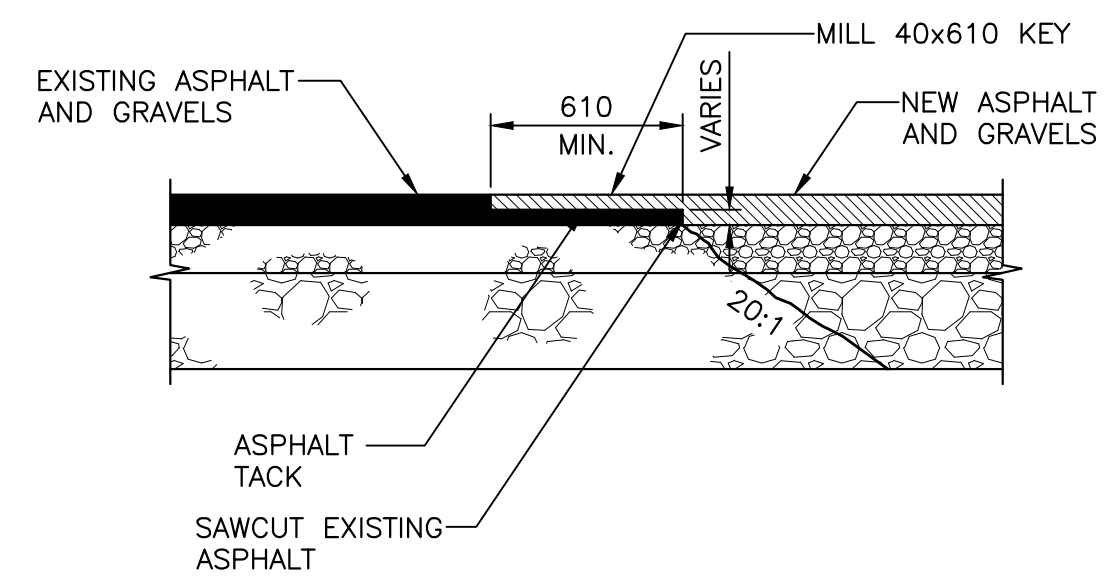
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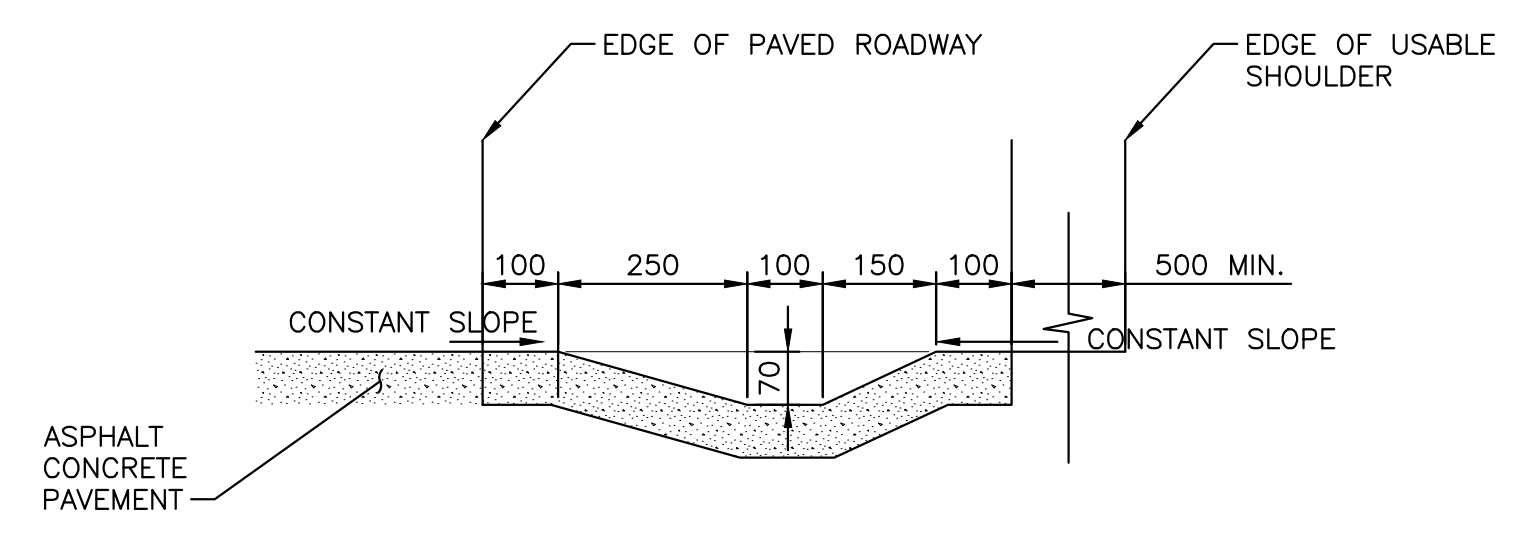
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revisions		date
project	CABOT TRAIL REHABILITATION FRENCH TO MACKENZIE KM 15.9 TO 21.9 CAPE BRETON HIGHLANDS NATIONAL PARK	
drawing	ALIGNMENT GEOMETRY AND SUPERELEVATION DEVELOPMENT TABLES	
designed	DSC	conçu
date	FEB. 20, 2017	
drawn	JLD	dessiné
date	FEB. 20, 2017	
approved	RMB	approuvé
date	FEB. 20, 2017	
Tender		
PCA Project Manager	Soumission FEB. 20, 2017 Administrateur de projets PCA	
project number	1114	
drawing no.	C-22	



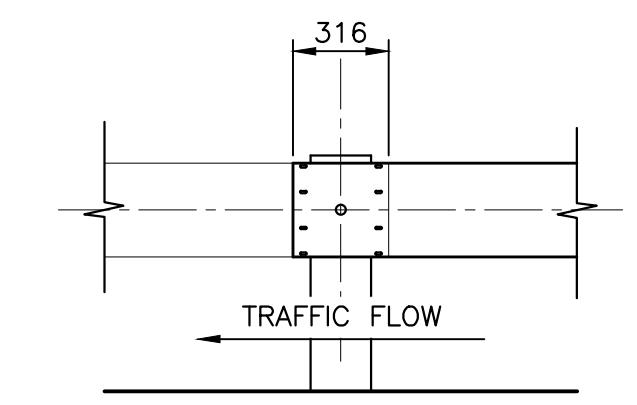
NOTE:
SAWCUT EXISTING ASPHALT TO MAKE VERTICAL CLEAN JOINT. MILL 40x610 KEY, PLACE AND COMPACT NEW GRAVELS. MILLED EDGES FOR KEYED JOINTS AT START AND END OF PROJECT TO RECEIVE ASPHALT TACK. NEW ASPHALT TO DEPARTMENTAL REPRESENTATIVE'S FULL SATISFACTION. MATCHING EXISTING.



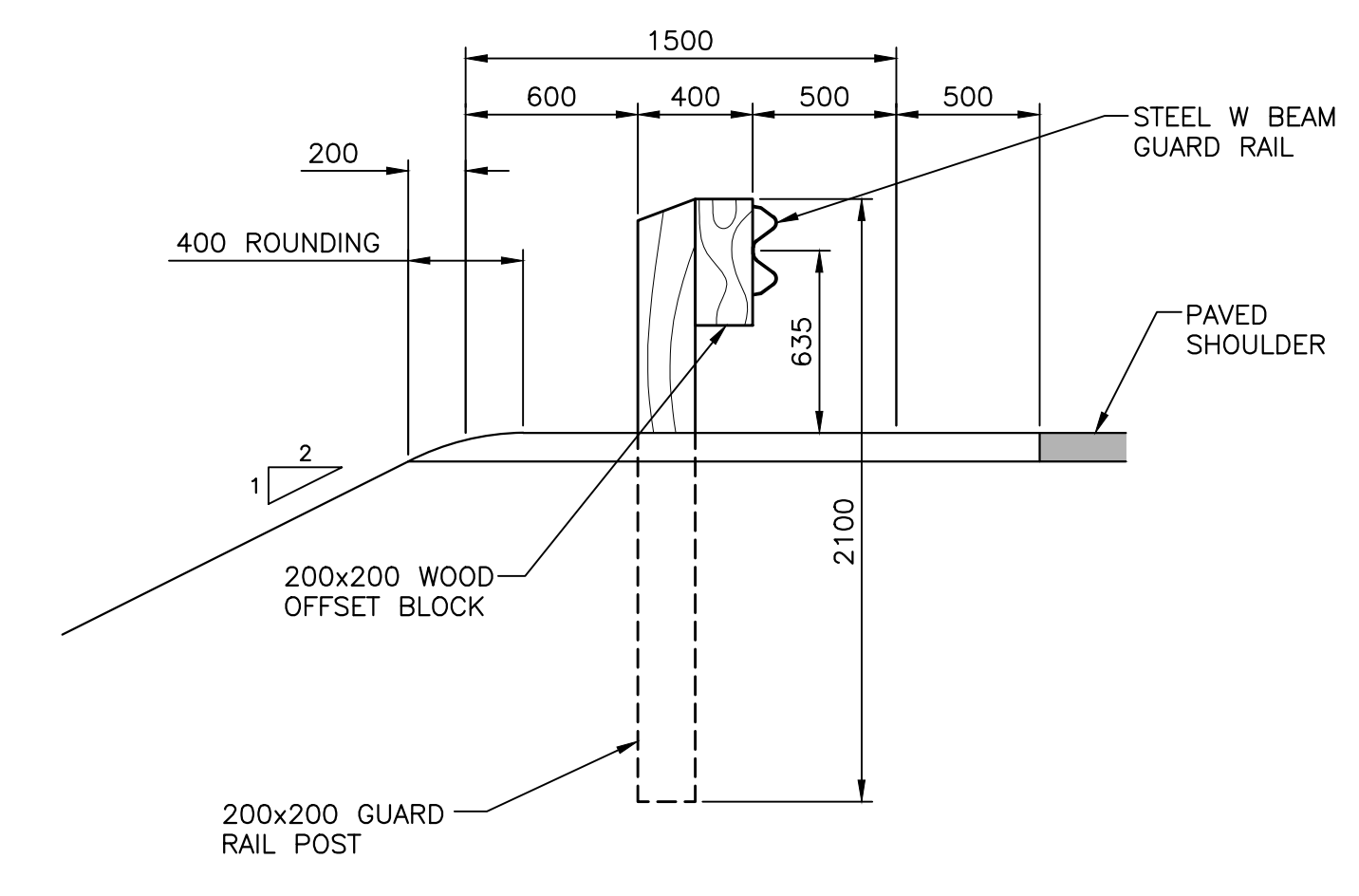
**ASPHALT JOINT DETAIL
BLEND WITH EXISTING ROAD**
SCALE: 1:25
0mm 500mm 1000mm 1500mm 2000mm 2500mm



ASPHALT CONCRETE GUTTER DETAIL
SCALE: 1:10
0mm 100 200 300 400 500 600 700 800 900 1000mm



BEAM SPLICE DETAIL
SCALE: 1:25
0mm 500mm 1000mm 1500mm 2000mm 2500mm



TYPICAL GUARD RAIL POST AND BLOCK DETAIL
SCALE: 1:25
0mm 500mm 1000mm 1500mm 2000mm 2500mm



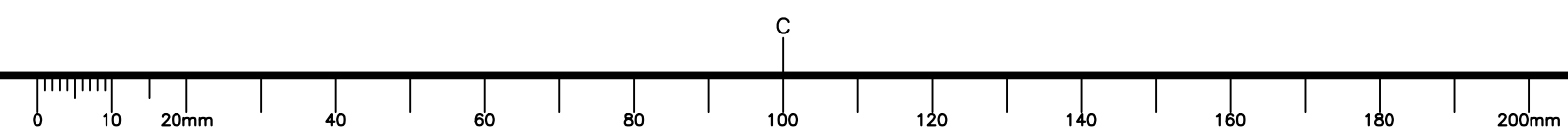
0	ISSUED FOR TENDER	FEB. 20 2017
revisions		date

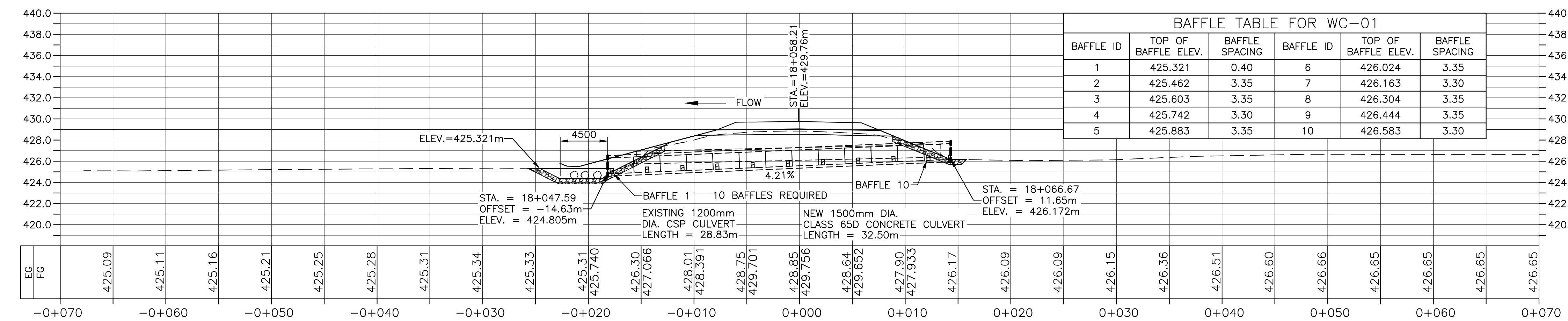
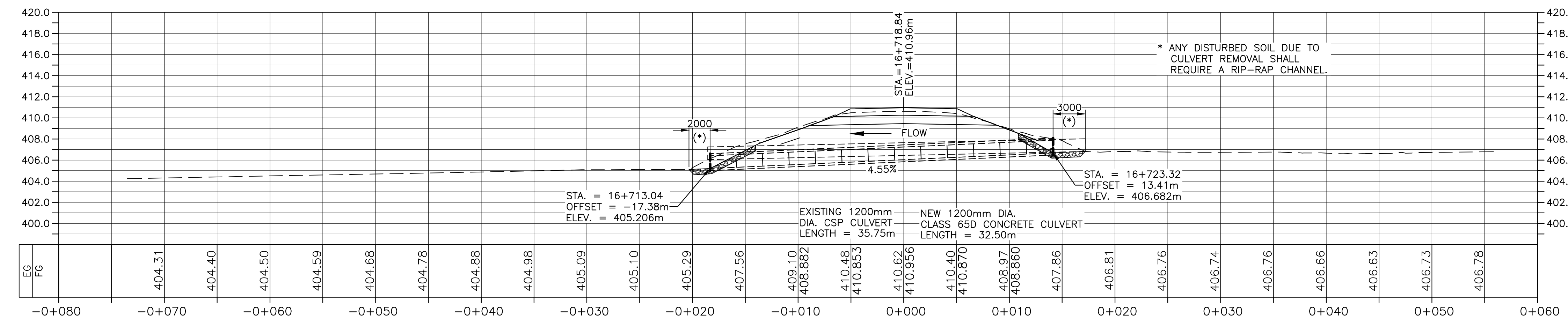
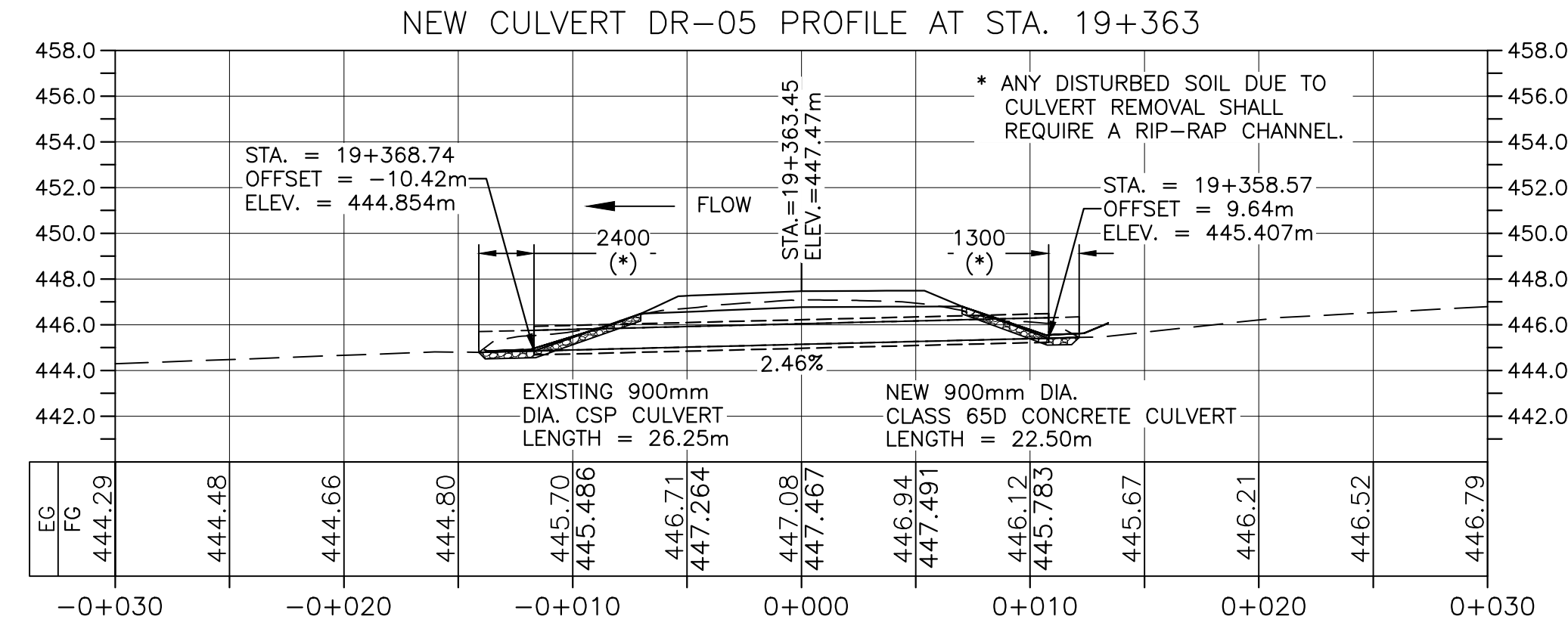
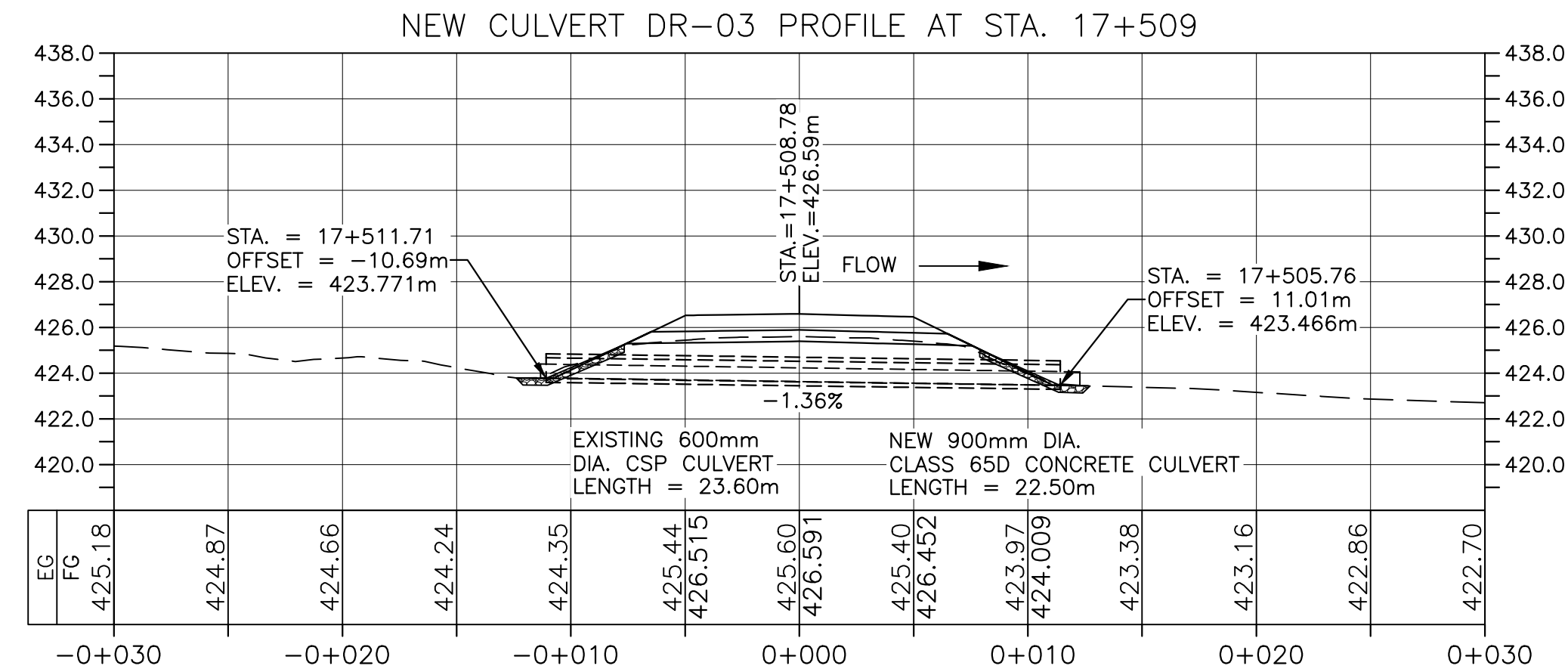
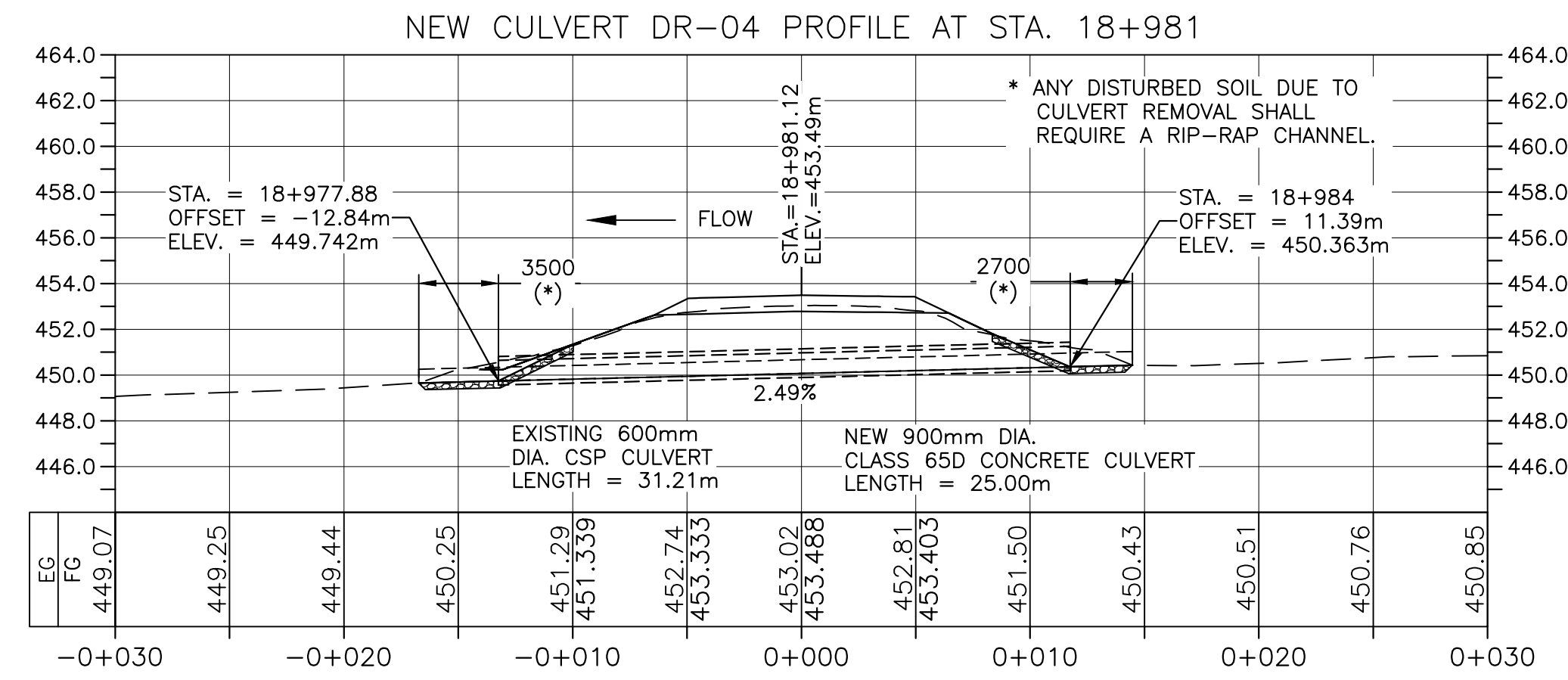
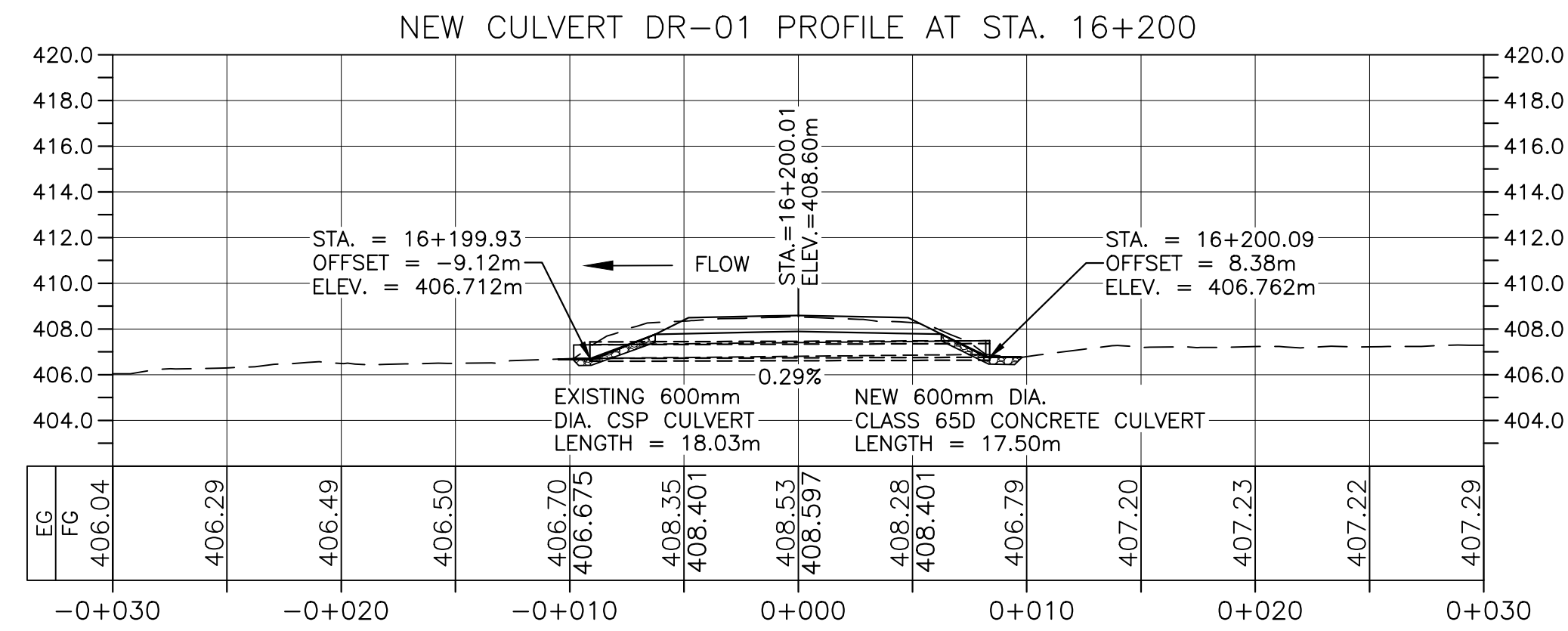
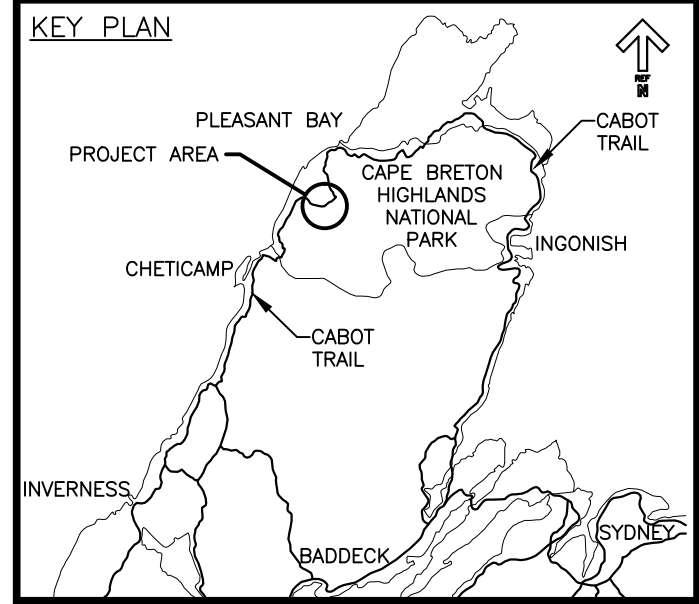
project projet
**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessin
TYPICAL DETAILS

designed DSC	conçu
date FEB. 20, 2017	
drawn JLD	dessiné
date FEB. 20, 2017	
approved RMB	approuvé
date FEB. 20, 2017	
Tender <i>[Signature]</i>	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet
1114	
drawing no.	no. du dessin
C-24	

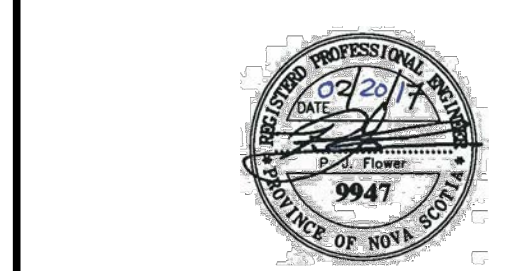
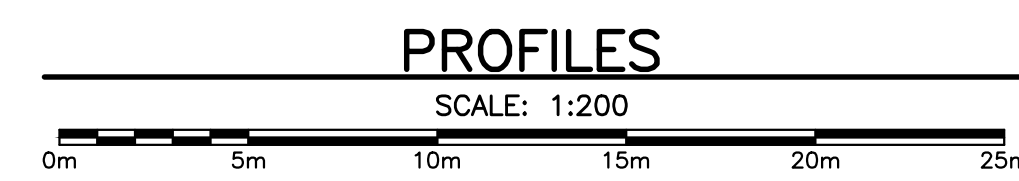
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BAFFLE TABLE FOR WC-01

BAFFLE ID	TOP OF BAFFLE ELEV.	BAFFLE SPACING	BAFFLE ID	TOP OF BAFFLE ELEV.	BAFFLE SPACING
1	425.321	0.40	6	426.024	3.35
2	425.462	3.35	7	426.163	3.30
3	425.603	3.35	8	426.304	3.35
4	425.742	3.30	9	426.444	3.35
5	425.883	3.35	10	426.583	3.30



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project CABOT TRAIL REHABILITATION FRENCH TO MACKENZIE KM 15.9 TO 21.9 CAPE BRETON HIGHLANDS NATIONAL PARK

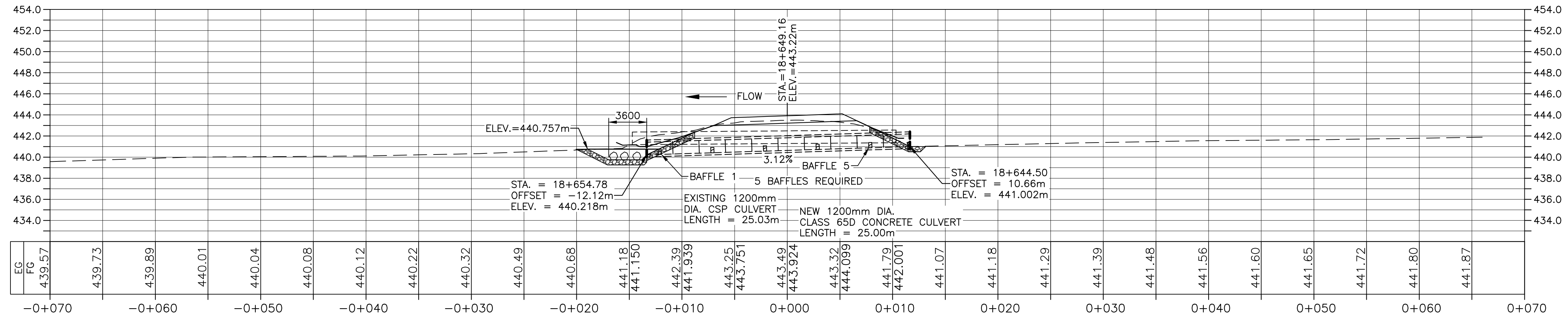
drawing CULVERT PROFILES

designed DSC	conçu
date FEB. 20, 2017	
drawn JLD	dessiné
date FEB. 20, 2017	
approved RMB	approuvé
date FEB. 20, 2017	
Tender	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

1114
C-25

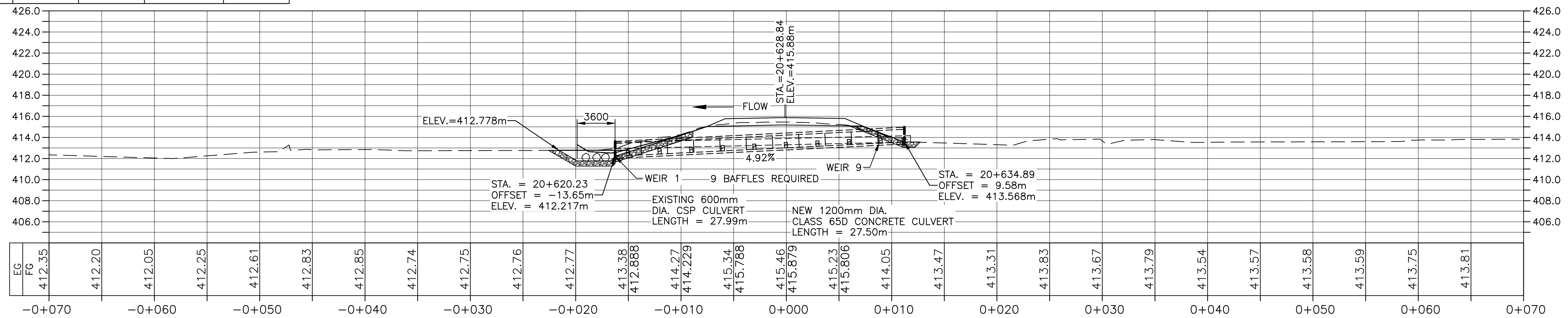
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BAFFLE TABLE FOR WC-02					
BAFFLE ID	TOP OF BAFFLE ELEV.	BAFFLE SPACING	BAFFLE ID	TOP OF BAFFLE ELEV.	BAFFLE SPACING
1	440.757	1.25	4	441.227	5.00
2	440.914	5.00	5	441.384	5.00
3	441.071	5.00			



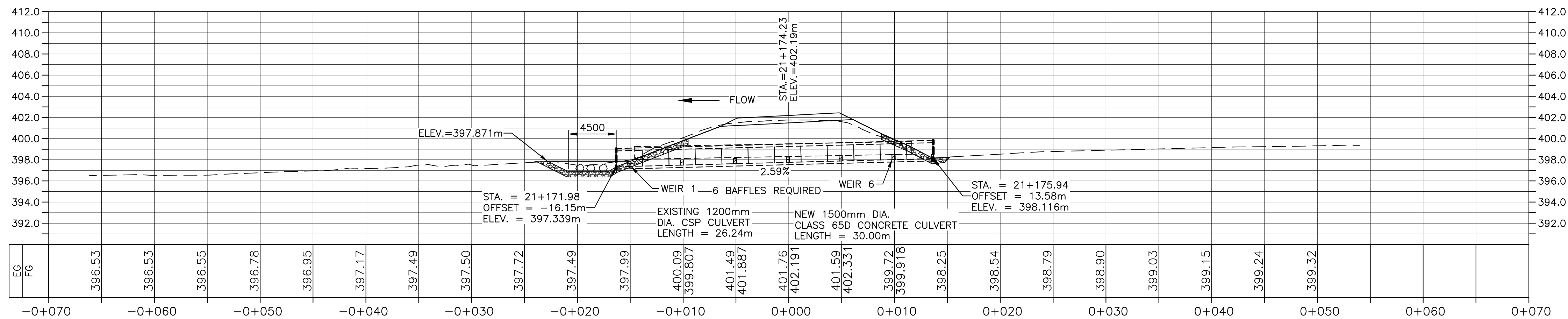
NEW CULVERT WC-02 PROFILE AT STA. 18+649

BAFFLE TABLE FOR WC-04					
BAFFLE ID	TOP OF BAFFLE ELEV.	BAFFLE SPACING	BAFFLE ID	TOP OF BAFFLE ELEV.	BAFFLE SPACING
1	412.778	1.25	6	413.515	3.00
2	412.926	3.00	7	413.662	3.00
3	413.073	3.00	8	413.810	3.00
4	413.220	3.00	9	413.957	3.00
5	413.368	3.00			



NEW CULVERT WC-04 PROFILE AT STA. 20+629

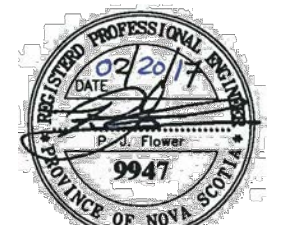
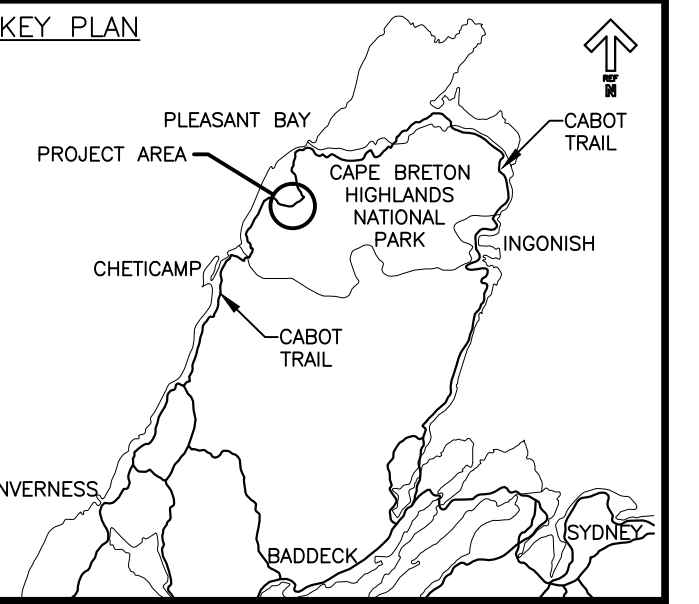
WEIR TABLE FOR WC-05					
WEIR ID	TOP OF WEIR ELEV.	BAFFLE SPACING	WEIR ID	TOP OF WEIR ELEV.	BAFFLE SPACING
1	397.871	1.25	4	398.260	5.00
2	398.000	5.00	5	398.390	5.00
3	398.130	5.00	6	398.519	5.00



NEW CULVERT WC-05 PROFILE AT STA. 21+174

PROFILES

SCALE: 1:200



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revisions		date

project CABOT TRAIL REHABILITATION FRENCH TO MACKENZIE KM 15.9 TO 21.9 CAPE BRETON HIGHLANDS NATIONAL PARK

drawing C-26

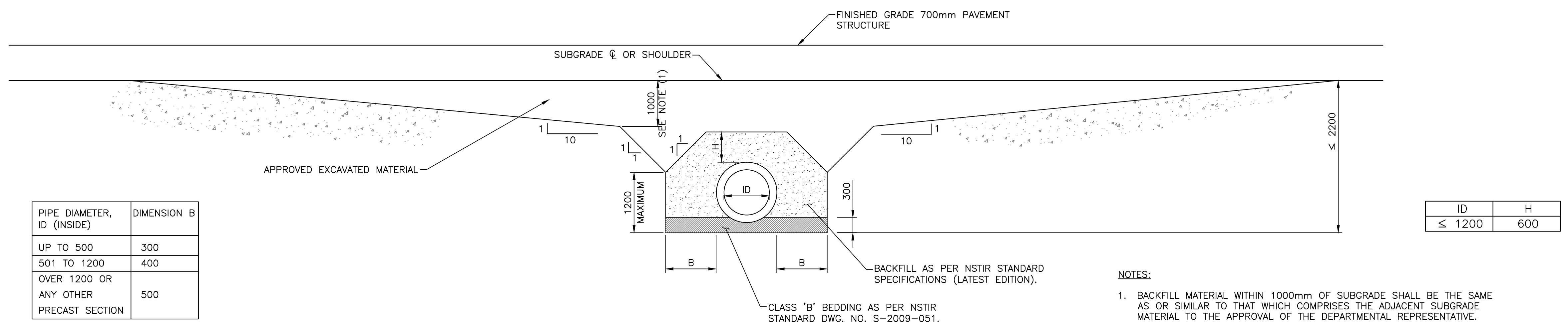
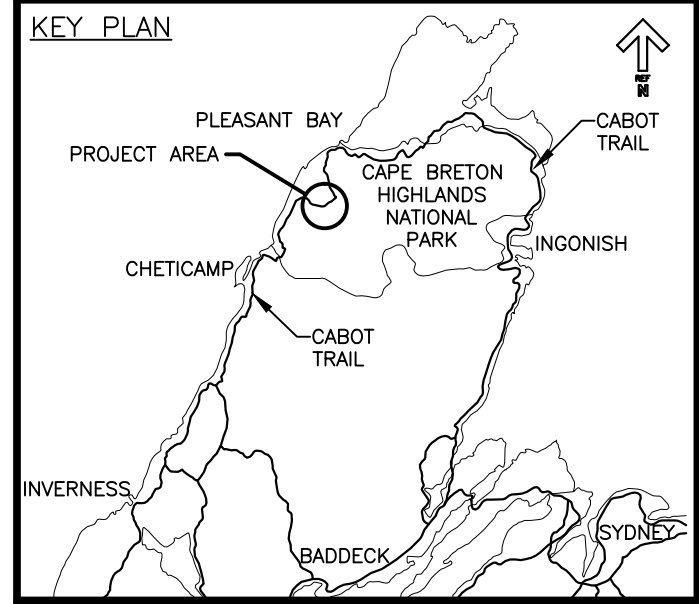
CULVERT PROFILES

designed DSC	conçu
date FEB. 20, 2017	
drawn JLD	dessiné
date FEB. 20, 2017	
approved RMB	approuvé
date FEB. 20, 2017	
Tender	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

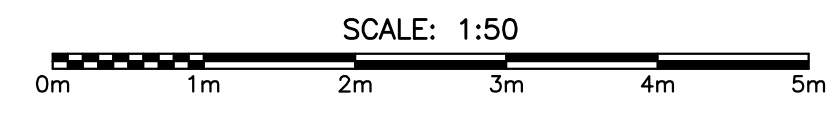
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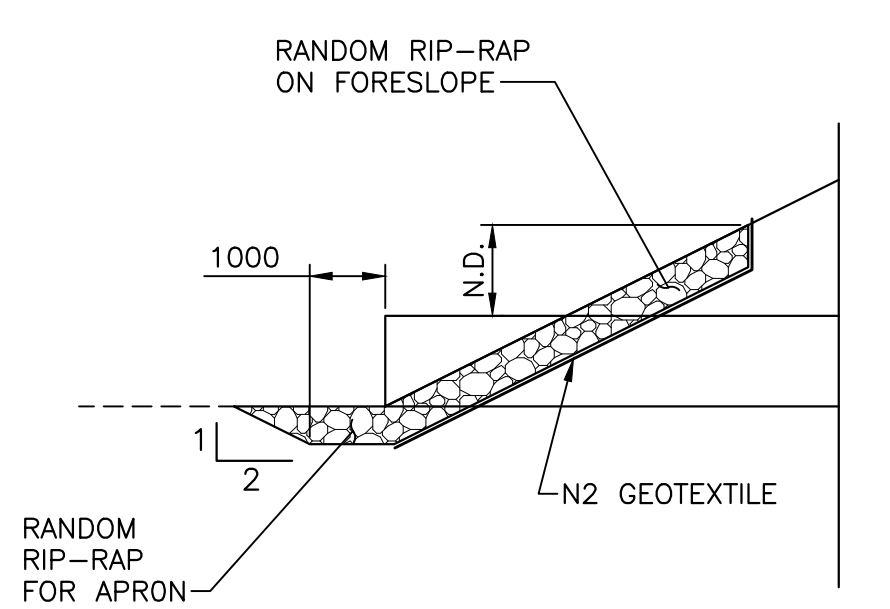


TRENCHING AND BACKFILLING AROUND STRUCTURES DETAIL

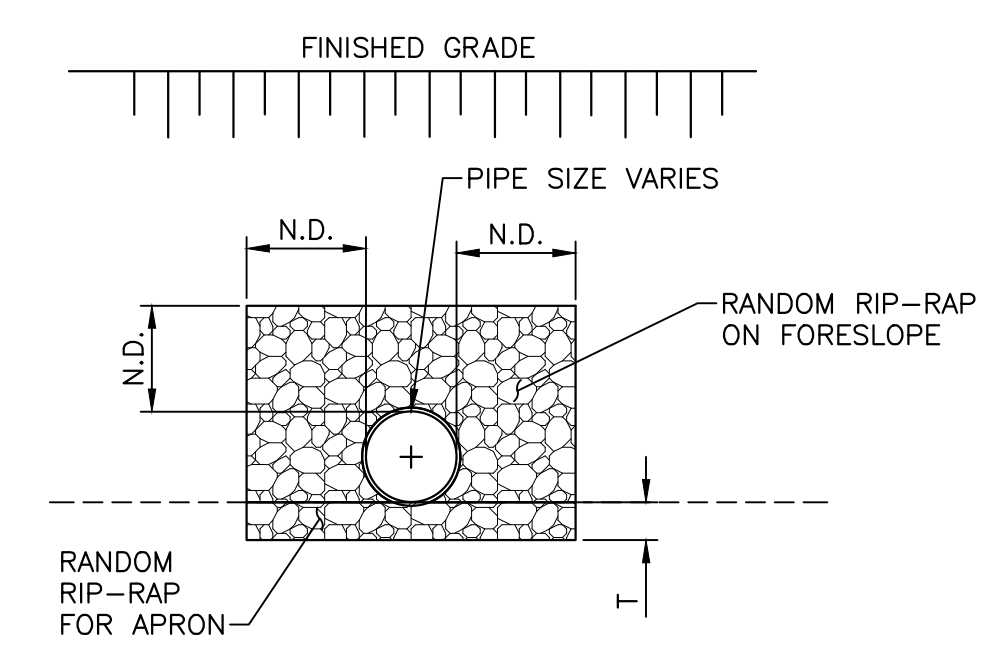
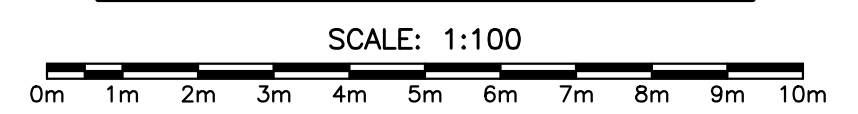


- NOTES:**
- BACKFILL MATERIAL WITHIN 1000mm OF SUBGRADE SHALL BE THE SAME AS OR SIMILAR TO THAT WHICH COMPRISES THE ADJACENT SUBGRADE MATERIAL TO THE APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE.
 - PIPE BACKFILL MATERIAL TO EXTEND TO THE LOWER OF, "H" ABOVE PIPE OR 1000mm BELOW SUBGRADE.
 - D = NOMINAL PIPE DIAMETER: OUTSIDE DIAMETER OF CONCRETE PIPE.

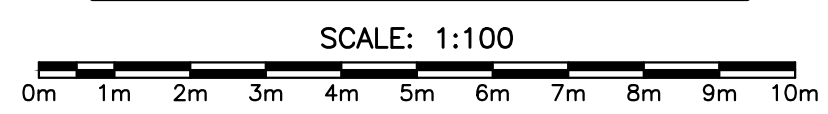
- NOTES:**
- SEE DRAWING C-25 FOR CULVERT DETAILS
 - SEE DRAWING C-27 FOR CULVERT TABLE INCLUDING RIP-RAP SIZE AND TYPE



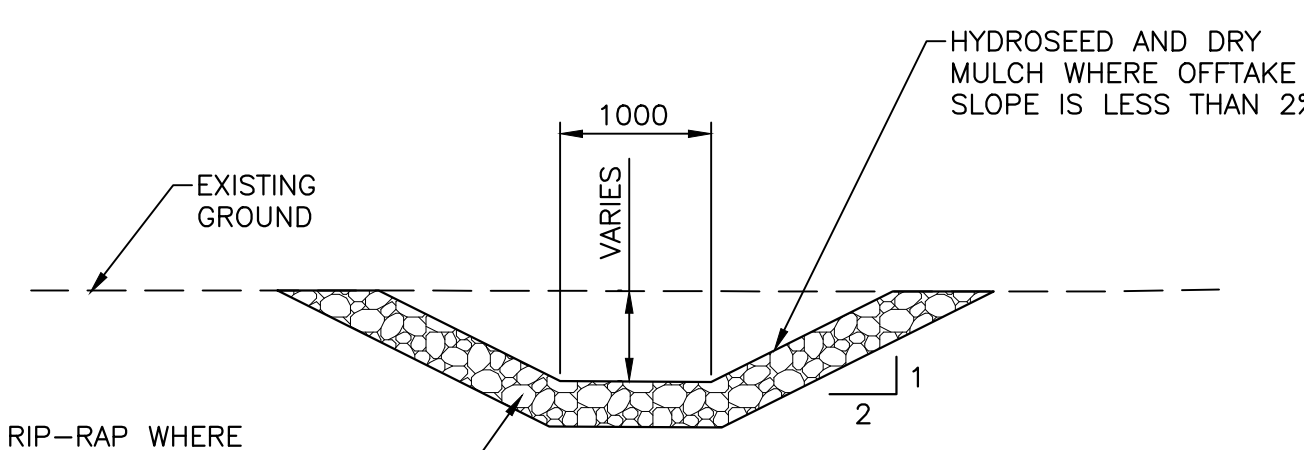
SECTION OF DR & AC CULVERT RIP-RAP INLET APRON



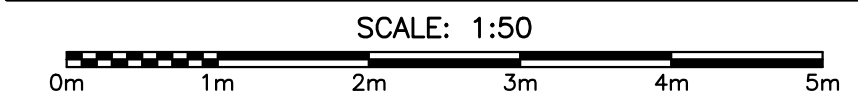
ELEVATION OF DR & AC CULVERT RIP-RAP INLET APRON



- NOTES:**
- MINIMUM OFFTAKE LENGTH TO TOE OF SLOPE OR AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.
 - EXTEND CULVERT OFFTAKES AT CULVERTS DR-02, DR-04 AND DR-05 AS INDICATED ON DRAWING C-25.

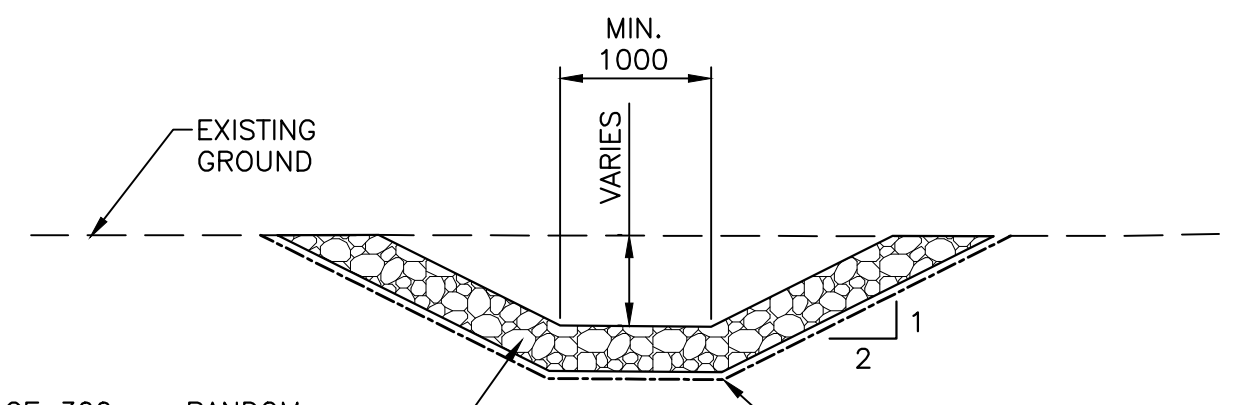


TYPICAL DR CULVERT OFFTAKE SECTION RIP-RAP PROTECTION DETAILS

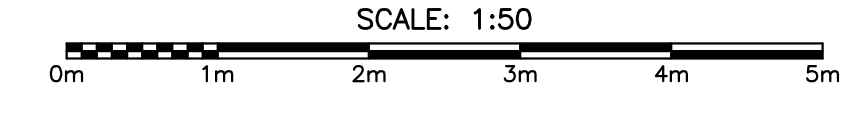


PLACE RANDOM RIP-RAP WHERE OFFTAKE SLOPE IS GREATER THAN 2%. SEE DRAWING C-25 FOR CULVERT DETAILS AND OFFTAKE LENGTHS. SEE DRAWING C-28 FOR CULVERT TABLE.

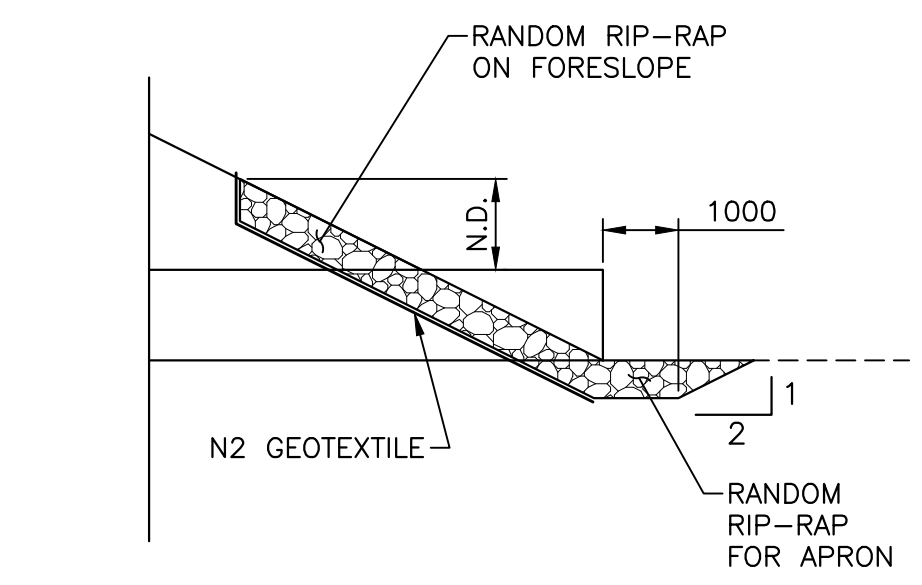
- NOTES:**
- LINED DITCH REQUIRED BETWEEN STATION 20+040 TO 20+140 (RIGHT SIDE) AND STATION 20+270 TO 20+485 (BOTH SIDES), AT THE DIRECTION OF THE DEPARTMENTAL REPRESENTATIVE.



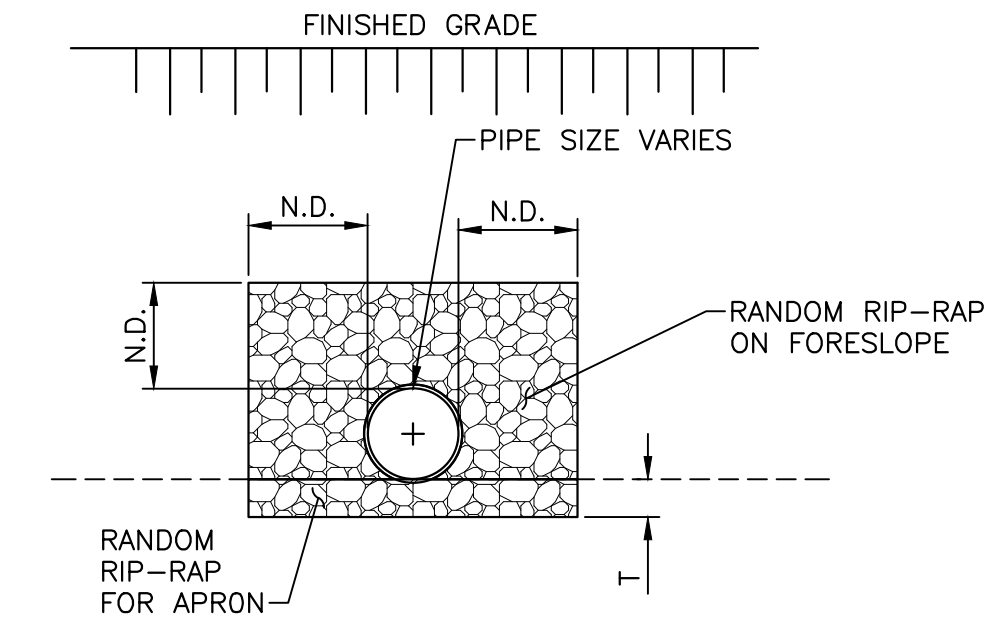
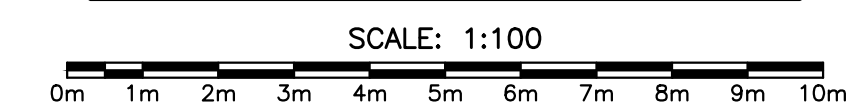
TYPICAL LINED DITCH SECTION RIP-RAP PROTECTION DETAILS



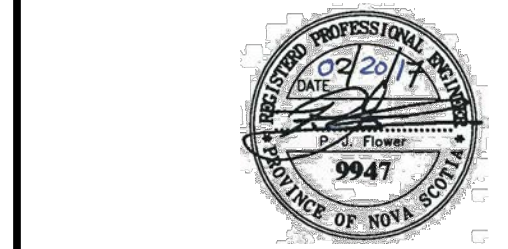
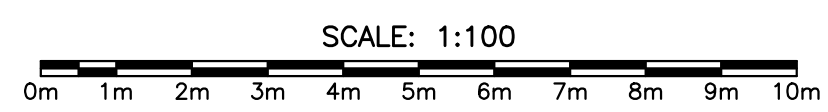
PLACE 300mm RANDOM RIP-RAP R-25 IN DITCH. SEE PLAN AND PROFILES FOR LINED DITCH LOCATIONS.



SECTION OF DR & AC CULVERT RIP-RAP OUTLET APRON



ELEVATION OF DR & AC CULVERT RIP-RAP OUTLET APRON



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revisions		date

project CABOT TRAIL REHABILITATION FRENCH TO MACKENZIE KM 15.9 TO 21.9 CAPE BRETON HIGHLANDS NATIONAL PARK

drawing CULVERT DETAILS

designed DSC	conçu
date FEB. 20, 2017	
drawn JLD	dessiné
date FEB. 20, 2017	
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drawing no. C-27	no. du dessin

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CULVERT TABLE

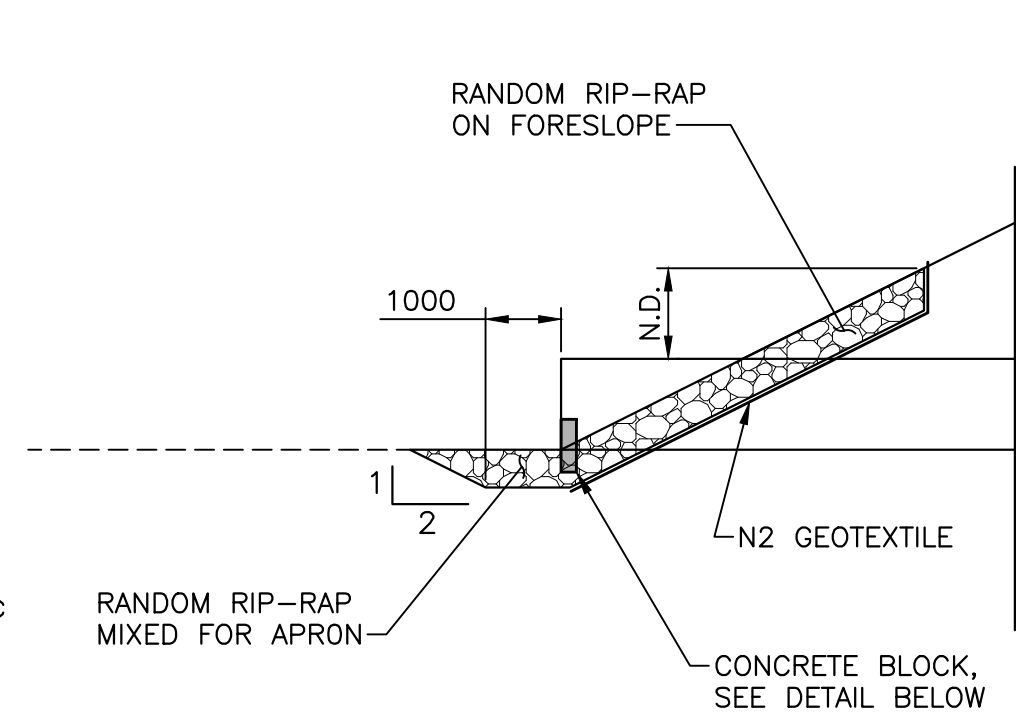
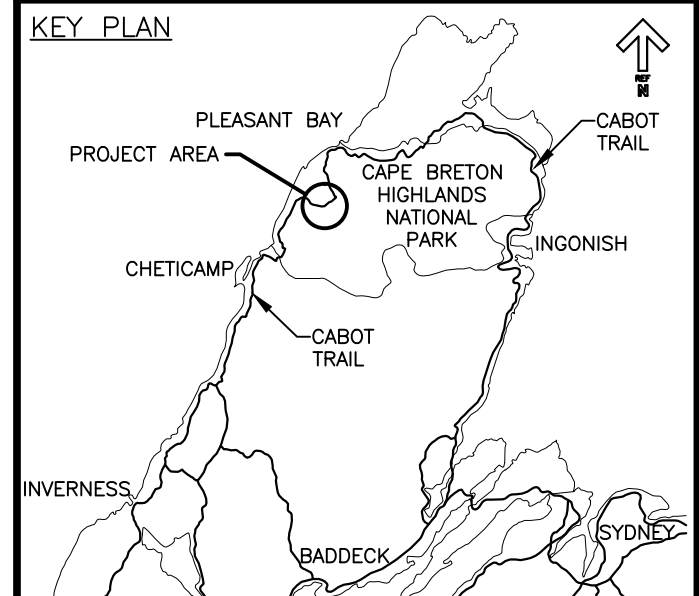
NAME	START STATION	DIAMETER	DESCRIPTION	LENGTH	SLOPE	BAFFLES		INLET END TREATMENT		OUTLET END TREATMENT			
						PIPE CLASS	MIN. BAFFLE SPACING	NO. OF BAFFLES	RIP-RAP SIZE	LAYOUT TYPE	RIP-RAP SIZE	LAYOUT TYPE	INDIVIDUAL ROCK PLACEMENTS
NEW CULVERT AC-01	19+115.42	600mm	CONCRETE CULVERT	12.50	0.31%	65D	N/A	N/A	R-5	APRON	R-5	APRON	N/A
NEW CULVERT AC-02a	20+787.72	600mm	CONCRETE CULVERT	17.50	3.00%	65D	N/A	N/A	R-5	APRON	R-5	APRON	N/A
NEW CULVERT AC-02b	20+849.40	600mm	CONCRETE CULVERT	17.50	4.66%	65D	N/A	N/A	R-5	APRON	R-5	APRON	N/A
NEW CULVERT AC-03a	15+900.66	600mm	CONCRETE CULVERT	15.00	3.66%	65D	N/A	N/A	R-5	APRON	R-5	APRON	N/A
NEW CULVERT AC-03b	15+923.07	600mm	CONCRETE CULVERT	15.00	2.11%	65D	N/A	N/A	R-5	APRON	R-5	APRON	N/A
NEW CULVERT DR-01	16+199.93	600mm	CONCRETE CULVERT	17.50	-0.29%	65D	-	-	R-5	APRON	R-5	APRON	-
NEW CULVERT DR-02	16+713.04	1200mm	CONCRETE CULVERT	32.50	-4.55%	65D	-	-	R-25	APRON	R-25	APRON	-
NEW CULVERT DR-03	17+511.71	900mm	CONCRETE CULVERT	22.50	1.36%	65D	-	-	R-5	APRON	R-5	APRON	-
NEW CULVERT DR-04	18+977.88	900mm	CONCRETE CULVERT	25.00	-2.49%	65D	-	-	R-5	APRON	R-5	APRON	-
NEW CULVERT DR-05	19+368.74	900mm	CONCRETE CULVERT	22.50	-2.46%	65D	-	-	R-5	APRON	R-5	APRON	-
NEW CULVERT WC-01	18+047.59	1500mm	CONCRETE CULVERT	32.50	-4.21%	65D	3.48	10	R-25 MIXED	APRON	R-25 MIXED	POOL	3
NEW CULVERT WC-02	18+654.78	1200mm	CONCRETE CULVERT	25.00	-3.14%	65D	4.78	5	R-25 MIXED	APRON	R-25 MIXED	POOL	3
NEW CULVERT WC-04	20+620.23	1200mm	CONCRETE CULVERT	27.50	-4.92%	65D	3.05	9	R-25 MIXED	APRON	R-25 MIXED	POOL	3
NEW CULVERT WC-05	21+172.03	1500mm	CONCRETE CULVERT	30.00	-2.59%	65D	5.80	6	R-25 MIXED	APRON	R-25 MIXED	POOL	3
NEW CULVERT WC-03	20+156.01	2400mm	SPCSP CULVERT	83.00	-1.88%	N/A	10.46	9	R-100 MIXED	APRON	R-100 MIXED	POOL	3

BAFFLE AND OUTLET POOL SIZING TABLE

PIPE & BAFFLE PARAMETERS			OUTLET POOL		OUTLET POOL DEPTH (Z)
NOM. DIA. (D)	BAFFLE HEIGHT	DROP	WIDTH (X)	LENGTH (Y)	
1200 CIRCULAR	500	150	2400	3600	1000
1500 CIRCULAR	500	150	3000	4500	1000
2400 CIRCULAR	500	200	4800	7200	1000

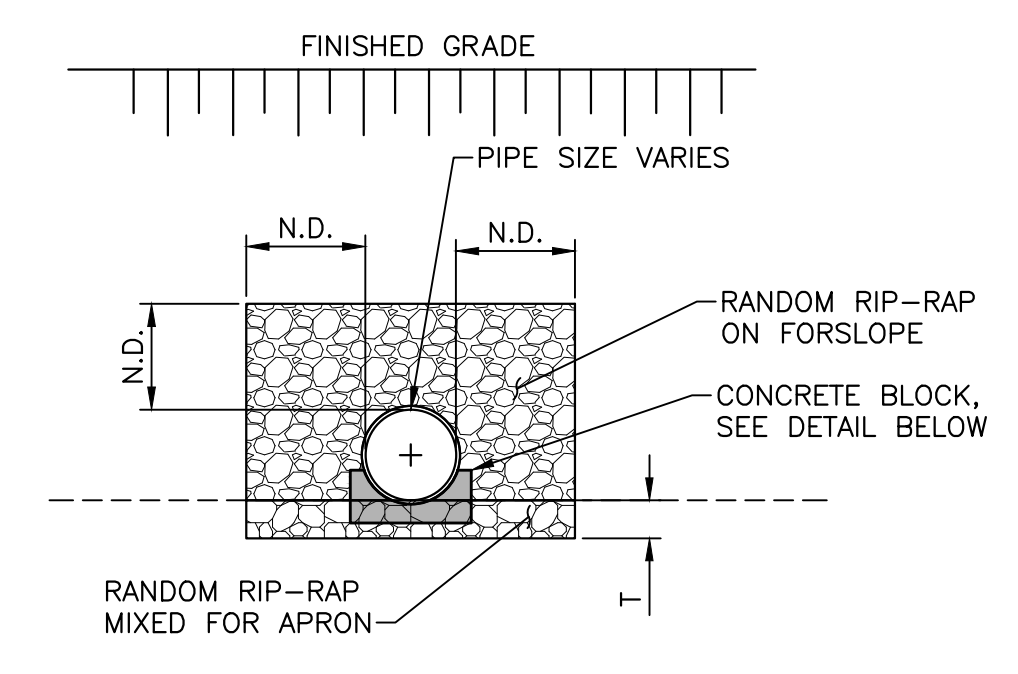
RIP-RAP TABLE	
RIP-RAP TYPE	THICKNESS (T)
R-5	300
R-25	500
R-100	800

NOTE:
AC = ACCESS ROAD OR DRIVEWAY
DR = DRAINAGE
WC = WATERCOURSE (FISH PASSAGE REQUIRED)



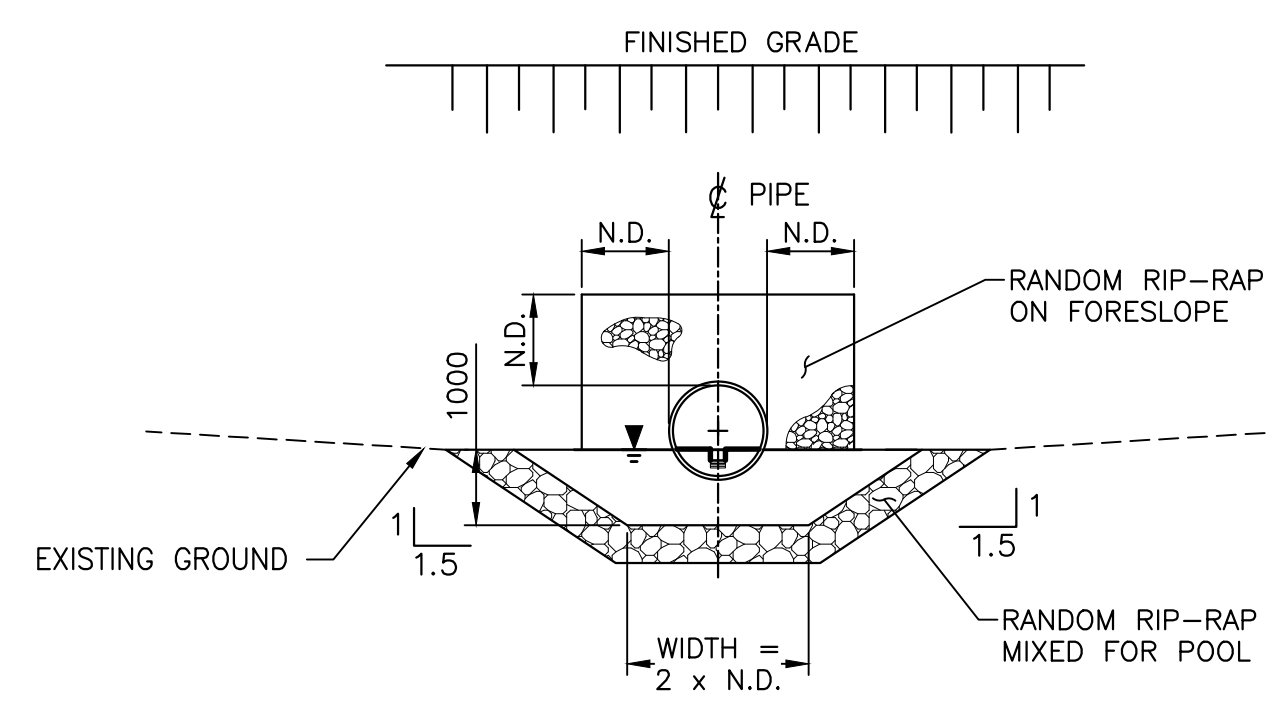
SECTION OF WC CULVERT RIP-RAP INLET APRON

SCALE: 1:100



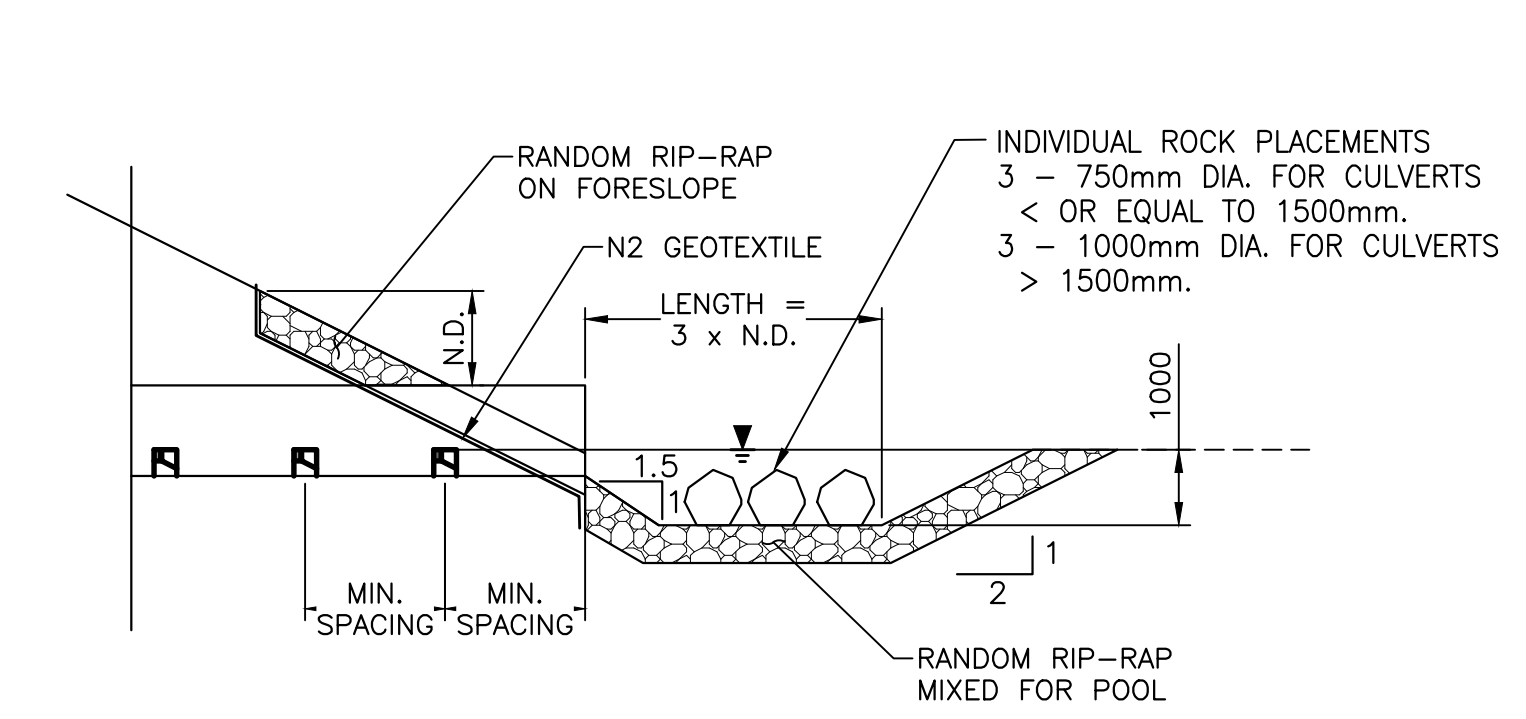
ELEVATION OF WC CULVERT RIP-RAP INLET APRON

SCALE: 1:100



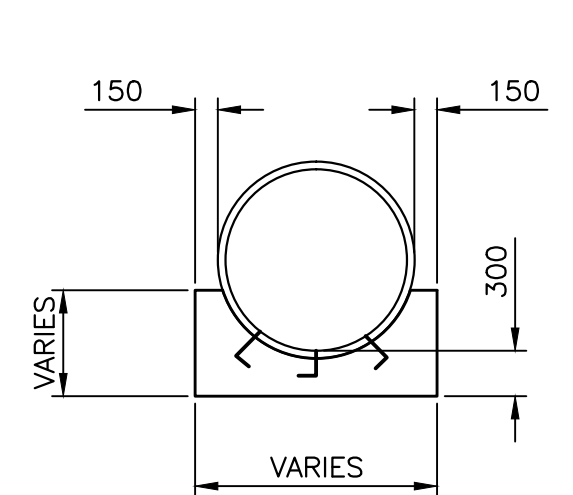
ELEVATION OF WC CULVERT RIP-RAP OUTLET POOL

SCALE: 1:100



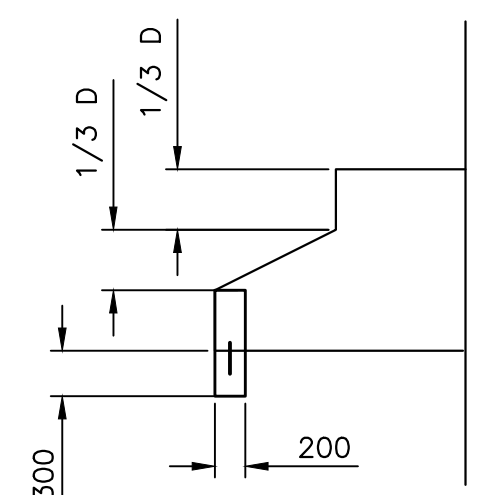
SECTION OF WC CULVERT RIP-RAP OUTLET POOL

SCALE: 1:100



CONCRETE BLOCK DETAIL

SCALE: 1:50



PLAN OF WC CULVERT RIP-RAP OUTLET POOL

SCALE: 1:100

NOTES:
1. REQUIRED AT THE INLET END OF ALL WC STRUCTURES, UNLESS OTHERWISE NOTED.

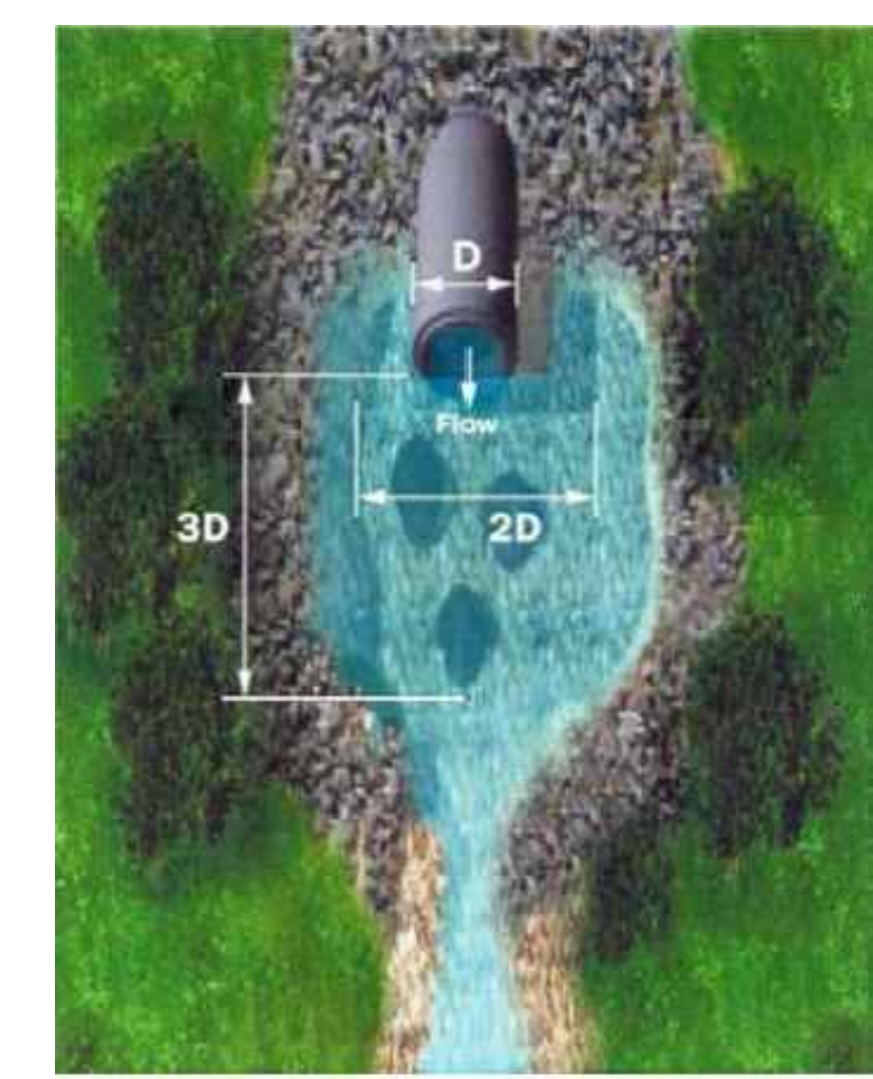
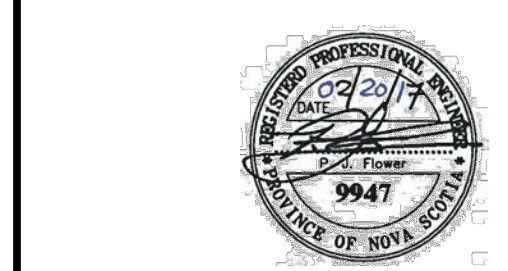


ILLUSTRATION OF OUTLET POOL

SOURCE: GUIDELINES FOR THE DESIGN OF FISH PASSAGE FOR CULVERTS IN NOVA SCOTIA, FISHERIES AND OCEANS CANADA, FEBRUARY 2015



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drawing CULVERT DETAILS

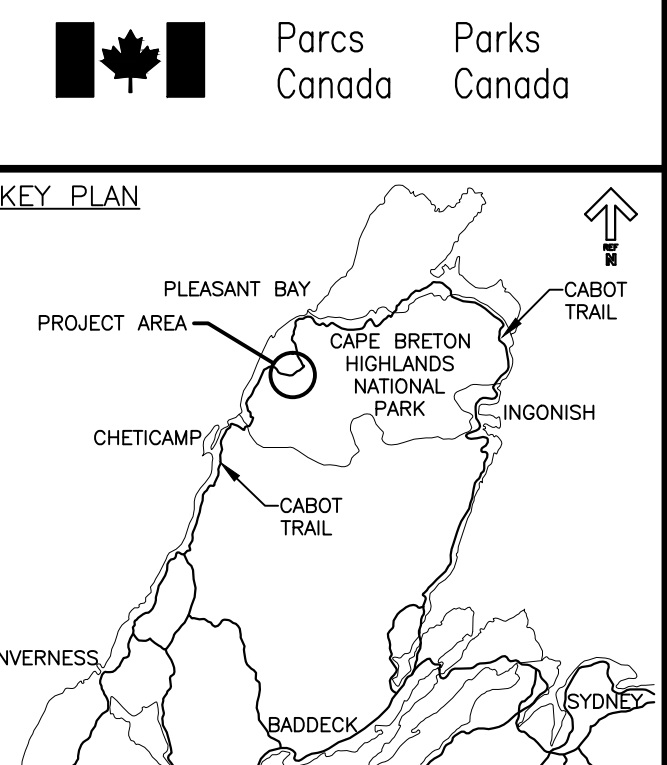
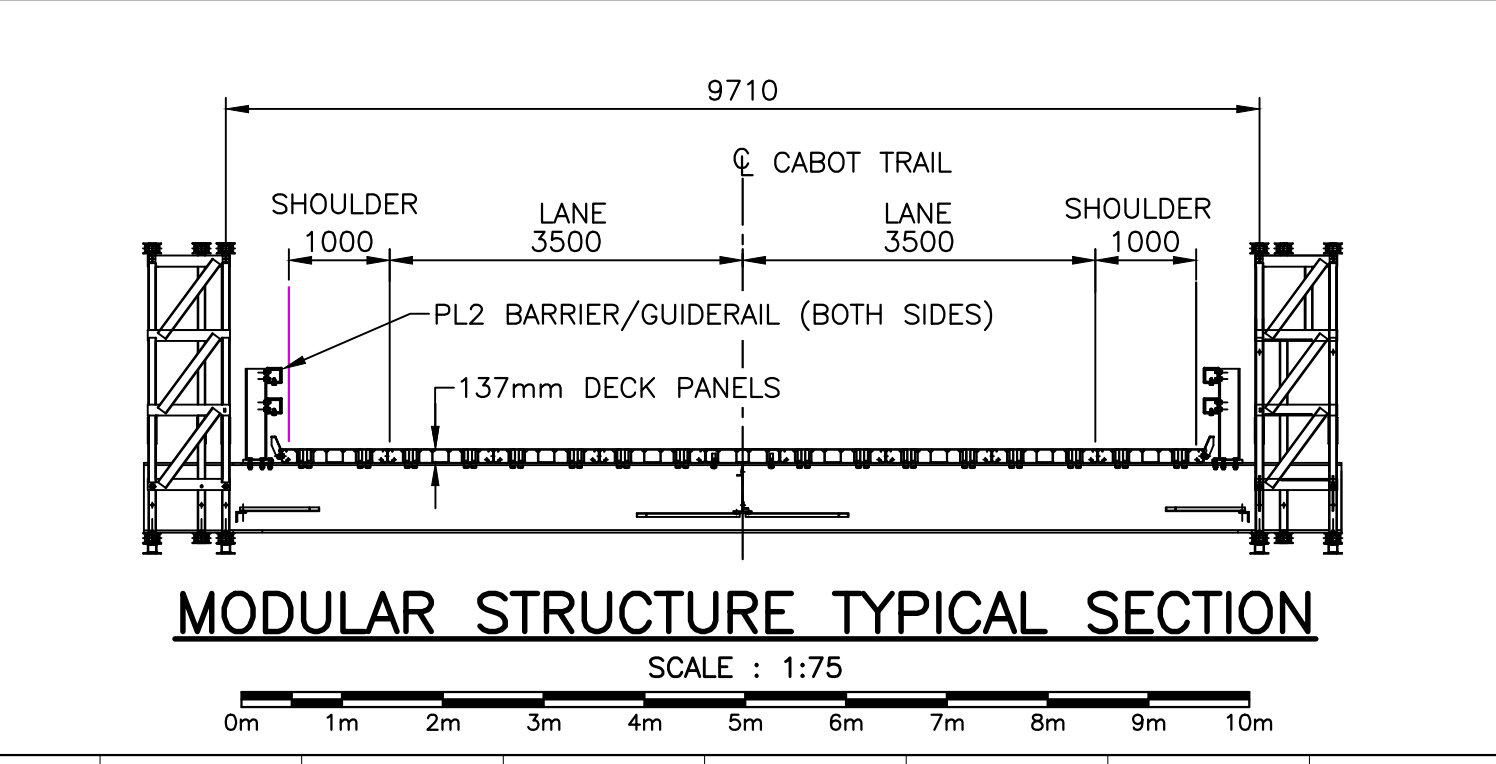
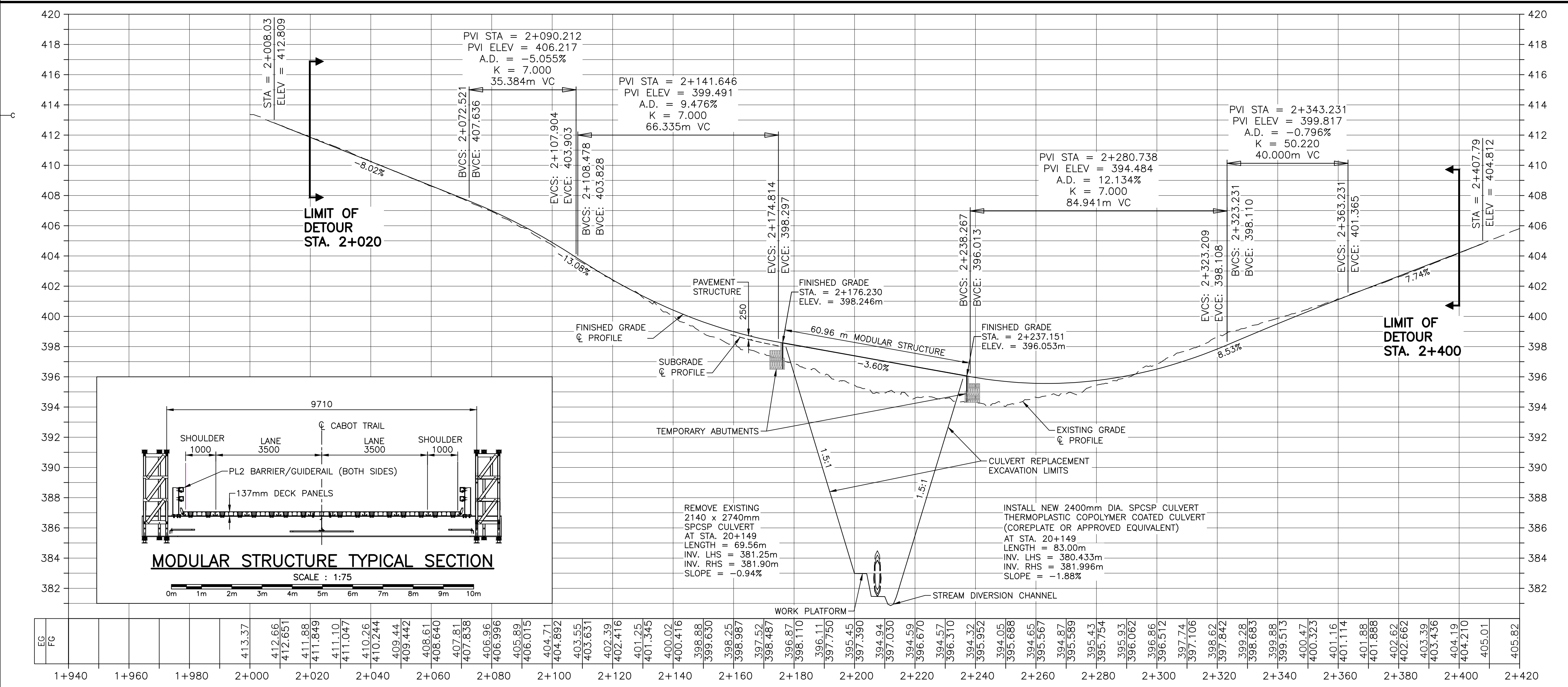
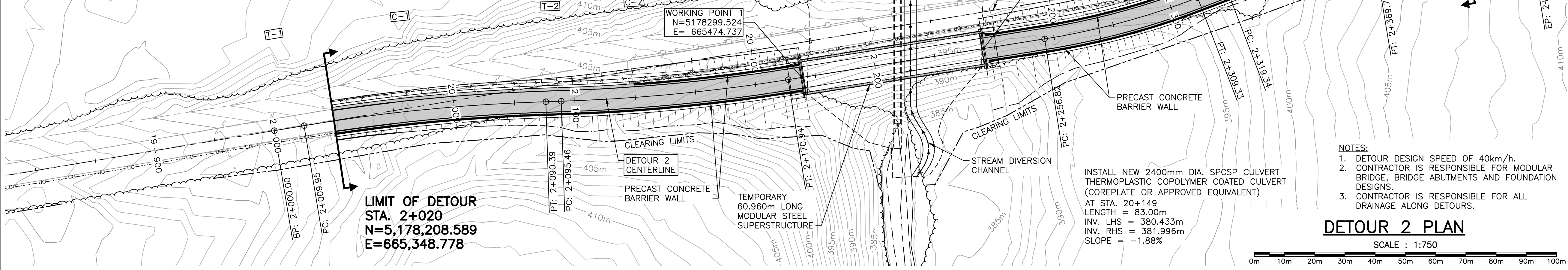
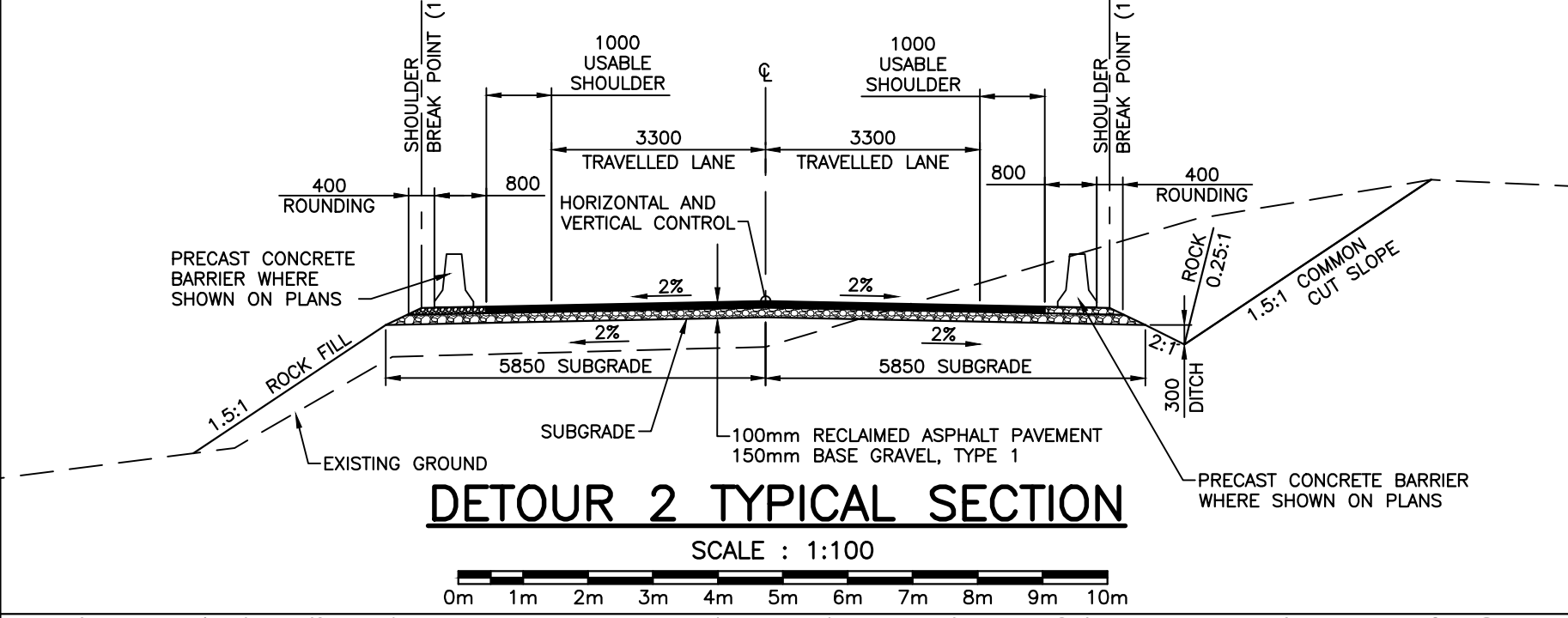
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drawing no. C-28 no. du dessin

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NOTES:
1. 0.4m ROUNDDING CENTERED ON SHOULDER BREAK POINT IF GUARDRAIL NOT INSTALLED.



- LEGEND EXISTING**
- 8m CONTOUR & ELEVATION
 - ROADWAY
 - EDGE OF PAVE
 - GUARD RAIL
 - ASPHALT GUTTER
 - DAYLIGHT
 - EDGE OF GRAVEL
 - EDGE OF TREES
 - WATERCOURSE BOUNDARY
 - CULVERT
 - SIGN
 - BUILDING
 - BH-01 BOREHOLE
 - BELL ALIANT JUNCTION BOX
 - BELL ALIANT COMM. CABLES
- LEGEND NEW**
- EDGE OF PAVE
 - ROADWAY
 - EDGE OF PAVE
 - SHOULDER
 - GUARD RAIL
 - ASPHALT GUTTER
 - DITCH LINE
 - DITCH DRAINAGE
 - DAYLIGHT (TOP)
 - DAYLIGHT (TOE)
 - EDGE OF GRAVEL
 - CLEARING LIMIT
 - CULVERT
 - RIP-RAP

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revisions		date
project		project

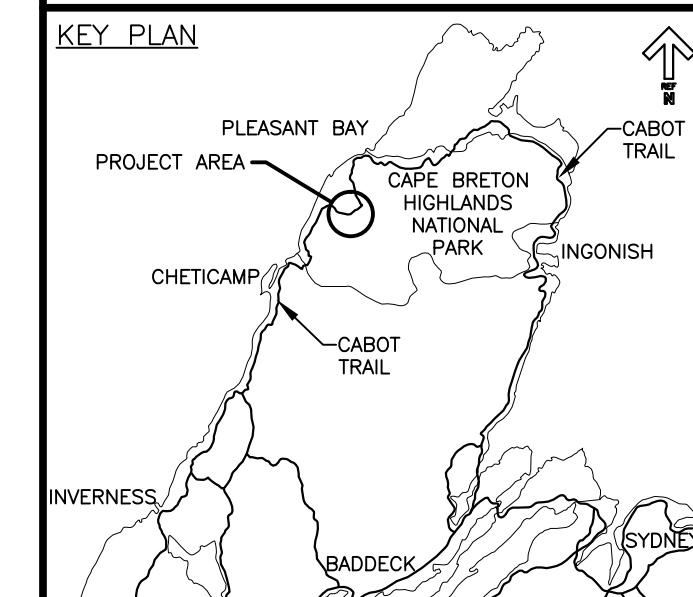
**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

**FISHING COVE RIVER
TEMPORARY CONDITIONS
DETOUR 2
PLAN, PROFILE AND
TYPICAL SECTIONS**

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PCA Project Manager	Administrateur de projets PCA	
project number		no. du projet

1114
C-30

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LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- CULVERT
- SIGN
- BUILDING
- BH-01 BOREHOLE
- BELL ALIANT JUNCTION BOX
- BELL ALIANT COMM. CABLES

LEGEND NEW

- EDGE OF PAVE
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- ASPHALT GUTTER
- DITCH LINE
- DITCH DRAINAGE
- DAYLIGHT (TOP)
- DAYLIGHT (TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
- CULVERT
- RIP-RAP



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revisions		date
project		projet

**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessin

**FISHING COVE RIVER
DETOUR PHASING
PLAN AND SECTIONS**

designed DSC conçu

date FEB. 20, 2017

drawn JLD dessiné

date FEB. 20, 2017

approved RMB approuvé

date FEB. 20, 2017

Tender Soumission

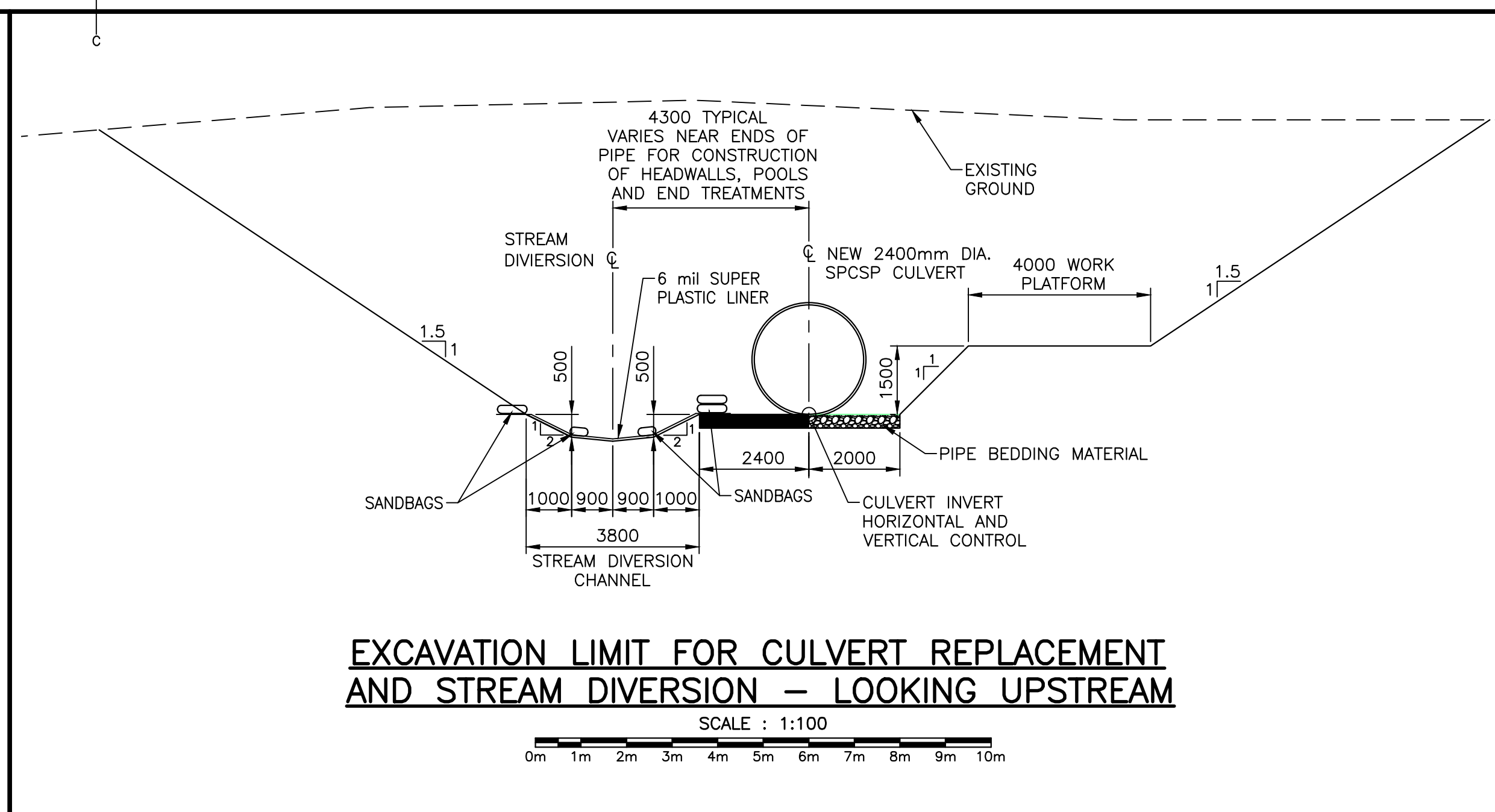
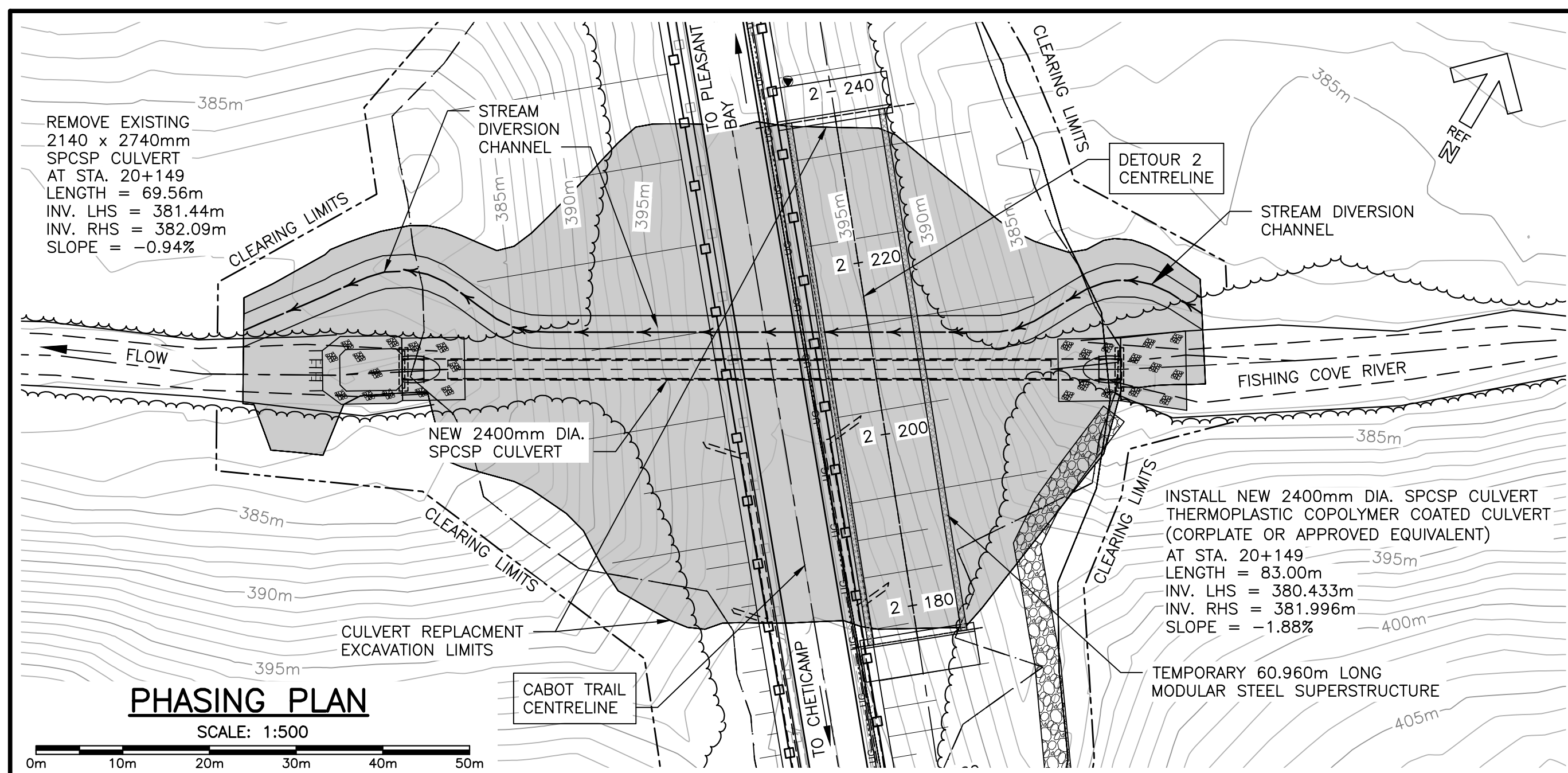
PCA Project Manager Administrateur de projets PCA

project number no. du projet

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drawing no. no. du dessin

C-31



PHASE 1

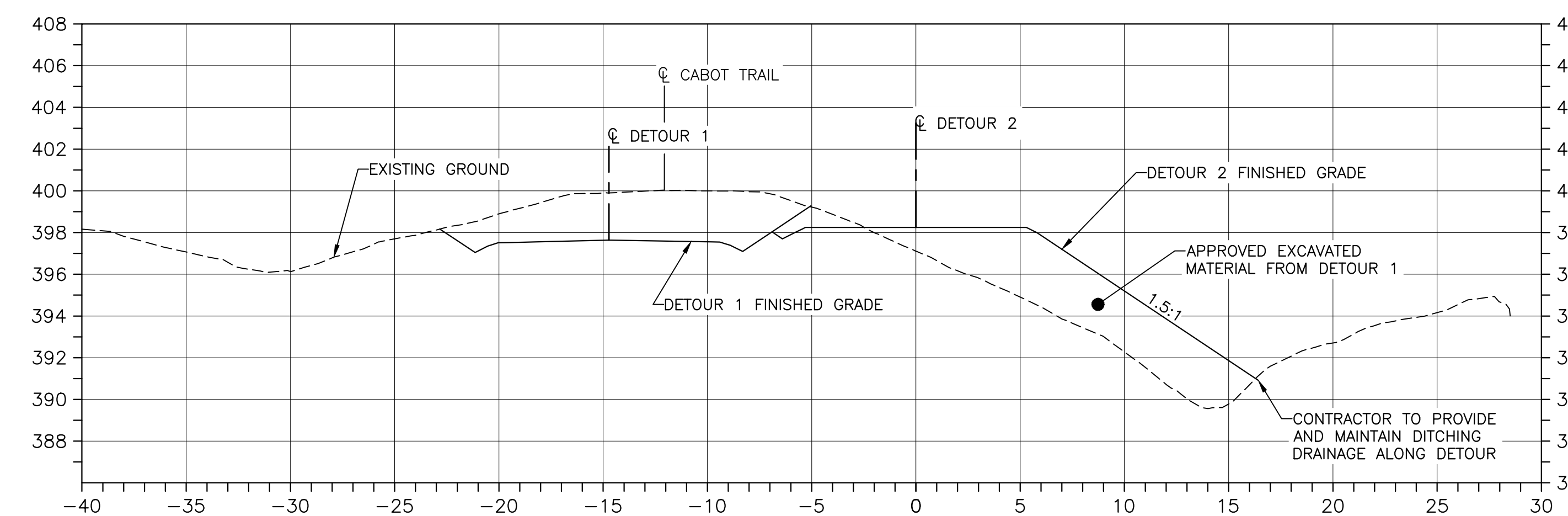
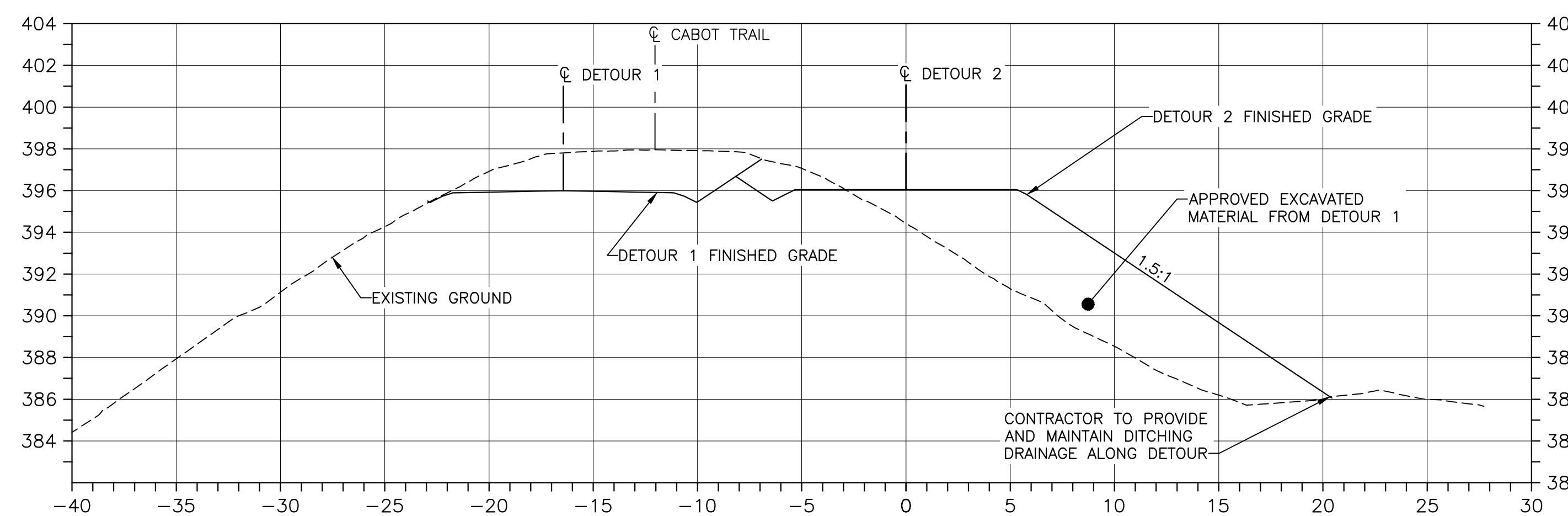
- EXCAVATE EXISTING CABOT TRAIL ALONG DETOUR 1. MAINTAINING A SINGLE LANE OF TRAFFIC WHILE WORK IS BEING COMPLETED.
- TWO WAY TRAFFIC WITH APPROPRIATE TRAFFIC CONTROL IS REQUIRED AT THE END OF EACH WORKING DAY WHILE COMPLETING WORK AT DETOUR 1.
- A MINIMUM OF 75 mm OF BASE GRAVEL, TYPE 1 SHALL BE PLACED AS A DRIVING SURFACE AT THE END OF EACH WORKING DAY. AT NO POINT DURING CONSTRUCTION OF DETOUR 1 SHALL TRAFFIC PASS ON EXCAVATED SUBGRADE MATERIALS.
- STABLE DRIVING SURFACE AND TRAFFIC CONTROL MEASURES ARE REQUIRED TO BE OF THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.

PHASE 2

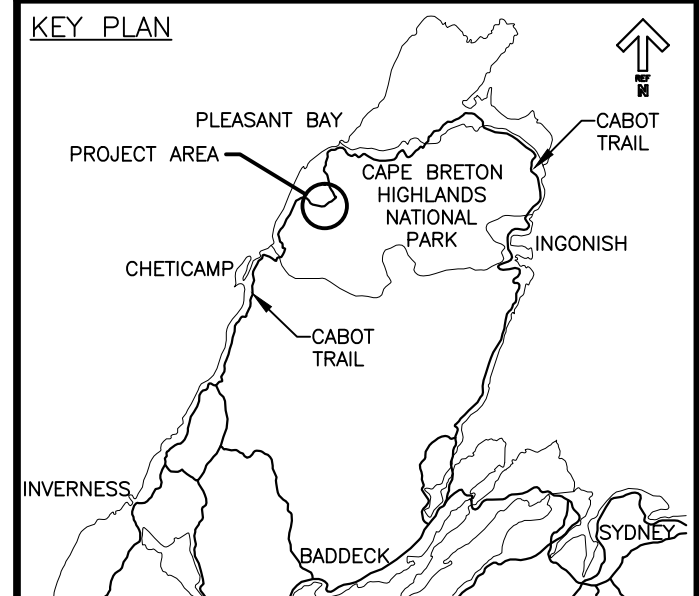
- EXCAVATE AND FILL AT DETOUR 2 FOR PLACEMENT OF TEMPORARY MODULAR BRIDGE.
- FOLLOWING APPROVAL OF DEPARTMENTAL REPRESENTATIVE, REDIRECT TRAFFIC TO DETOUR 2.
- BUILD WATERCOURSE DIVERSION CHANNEL AND DIVERT FLOW.
- REMOVE EXISTING CULVERT.
- INSTALL NEW FISHING COVE RIVER CULVERT.
- REMOVE TEMPORARY DIVERSION CHANNEL.
- BACKFILL AROUND NEW CULVERT TO DETOUR 1 GRADING LIMITS.
- REDIRECT TRAFFIC TO DETOUR 1.
- REMOVE TEMPORARY MODULAR BRIDGE AND DETOUR 2.
- RECONSTRUCT CABOT TRAIL TO DESIGN GRADES AND PER REQUIREMENTS OF CONTRACT DOCUMENTS.

NOTES:

- DETOUR ALIGNMENT AND CONSTRUCTION PHASES SHOWN ARE SUGGESTED CONSTRUCTION METHOD. CONTRACTOR MAY PROPOSE ALTERNATIVE MEANS OF CONSTRUCTION, PENDING REVIEW AND APPROVAL BY THE DEPARTMENTAL REPRESENTATIVE THAT THE ALTERNATIVE IS DEEMED ACCEPTABLE AND MEETS ALL REQUIREMENTS.
- WATER CONTROL PROCEDURE SHOWN IS A SUGGESTED METHOD. CONTRACTOR MAY PROPOSE ALTERNATIVE MEAN OF WATER CONTROL, FOR REVIEW AND APPROVAL BY THE DEPARTMENTAL REPRESENTATIVE.
- ANY 'IN-STREAM' WORK MUST OCCUR COMPLETELY IN THE DRY.
- TEMPORARY OUTLET PIPE HAS BEEN SIZED TO MATCH THE OPENING OF THE EXISTING PIPE. ANY ALTERNATIVE SIZES TO BE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
- ANY TEMPORARY CULVERT ALTERNATIVE ARE TO BE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.



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project projet
**CABOT TRAIL REHABILITATION
 FRENCH TO MACKENZIE
 KM 15.9 TO 21.9
 CAPE BRETON HIGHLANDS
 NATIONAL PARK**

drawing dessin
**DETOUR 1 AND 2
 ALIGNMENT GEOMETRY
 AND SUPERELEVATION
 DEVELOPMENT TABLES**

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	C-32

DETOUR 1 ALIGNMENT GEOMETRY

ID	SEGMENT TYPE	LENGTH (m)	RADIUS (m)	TANGENT OR CHORD AZIMUTH	BEGIN STATION	PI OR A	END STATION	DELTA Δ
T-1	TANGENT	110.070		49° 58' 16.46"	STA: 1+000.000 E: 665,333.410 N: 5,178,195.790		STA: 1+110.070 E: 665,417.693 N: 5,178,266.584	
C-1	CURVE	51.129	600.000	47° 31' 48.02"	STA: 1+110.070 E: 665,417.693 N: 5,178,266.584	E: 665,437.280 N: 5,178,283.036	STA: 1+161.199 E: 665,455.396 N: 5,178,301.096	4° 52' 56.9"
T-2	TANGENT	1.044		45° 05' 19.58"	STA: 1+161.199 E: 665,455.396 N: 5,178,301.096		STA: 1+162.243 E: 665,456.135 N: 5,178,301.833	
C-2	CURVE	50.688	600.000	47° 30' 32.12"	STA: 1+162.243 E: 665,456.135 N: 5,178,301.833	E: 665,474.094 N: 5,178,319.737	STA: 1+212.930 E: 665,493.500 N: 5,178,336.061	4° 50' 25.1"
T-3	TANGENT	25.683		49° 55' 44.66"	STA: 1+212.930 E: 665,493.500 N: 5,178,336.061		STA: 1+238.613 E: 665,513.154 N: 5,178,352.594	
C-3	CURVE	55.167	900.000	51° 41' 06.31"	STA: 1+238.613 E: 665,513.154 N: 5,178,352.594	E: 665,534.269 N: 5,178,370.356	STA: 1+293.780 E: 665,556.432 N: 5,178,386.791	3° 30' 43.3"
T-4	TANGENT	19.205		53° 26' 27.96"	STA: 1+293.780 E: 665,556.432 N: 5,178,386.791		STA: 1+312.985 E: 665,571.859 N: 5,178,398.231	
C-4	CURVE	54.504	900.000	51° 42' 22.21"	STA: 1+312.985 E: 665,571.859 N: 5,178,398.231	E: 665,593.756 N: 5,178,414.469	STA: 1+367.490 E: 665,614.630 N: 5,178,432.002	3° 28' 11.5"
T-5	TANGENT	52.739		49° 58' 16.46"	STA: 1+367.490 E: 665,614.630 N: 5,178,432.002		STA: 1+420.229 E: 665,655.013 N: 5,178,465.923	

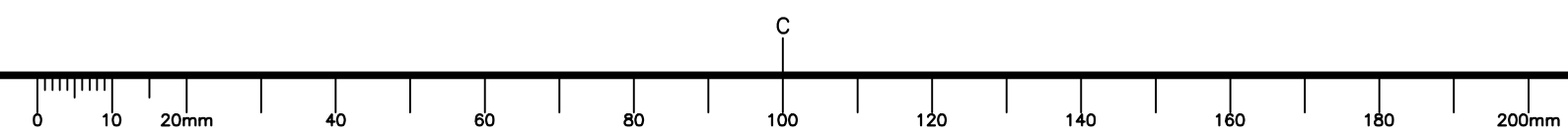
DETOUR 2 ALIGNMENT GEOMETRY

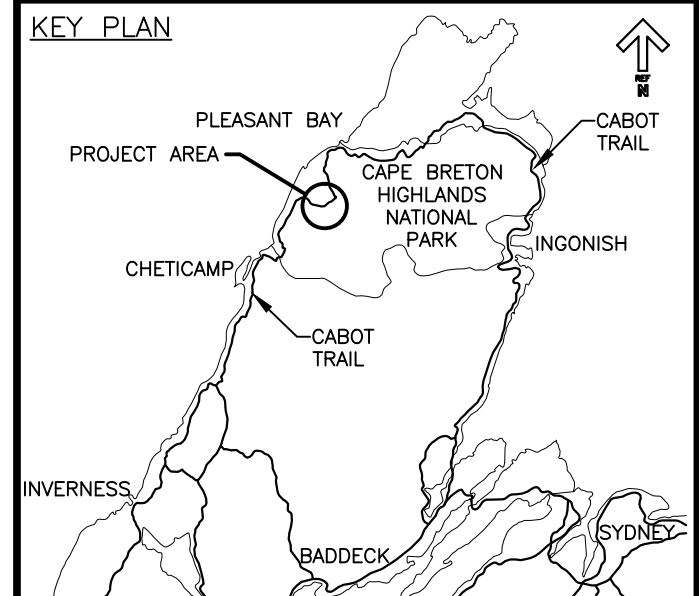
ID	SEGMENT TYPE	LENGTH (m)	RADIUS (m)	TANGENT OR CHORD AZIMUTH	BEGIN STATION	PI OR A	END STATION	DELTA Δ
T-1	TANGENT	9.952		49° 58' 16.46"	STA: 2+000.000 E: 665,333.410 N: 5,178,195.790		STA: 2+009.952 E: 665,341.030 N: 5,178,202.191	
C-1	CURVE	80.441	600.000	53° 48' 43.27"	STA: 2+009.952 E: 665,341.030 N: 5,178,202.191	E: 665,371.874 N: 5,178,228.099	STA: 2+090.393 E: 665,405.905 N: 5,178,249.651	7° 40' 53.6"
T-2	TANGENT	5.071		57° 39' 10.07"	STA: 2+090.393 E: 665,405.905 N: 5,178,249.651		STA: 2+095.464 E: 665,410.189 N: 5,178,252.364	
C-2	CURVE	75.473	600.000	54° 02' 57.21"	STA: 2+095.464 E: 665,410.189 N: 5,178,252.364	E: 665,442.111 N: 5,178,272.581	STA: 2+170.937 E: 665,471.245 N: 5,178,296.644	7° 12' 25.7"
T-3	TANGENT	85.887		50° 26' 44.35"	STA: 2+170.937 E: 665,471.245 N: 5,178,296.644		STA: 2+256.824 E: 665,537.466 N: 5,178,351.338	
C-3	CURVE	52.504	250.000	44° 25' 45.07"	STA: 2+256.824 E: 665,537.466 N: 5,178,351.338	E: 665,557.782 N: 5,178,368.117	STA: 2+309.328 E: 665,574.153 N: 5,178,388.763	12° 01' 58.6"
T-4	TANGENT	10.010		38° 24' 45.79"	STA: 2+309.328 E: 665,574.153 N: 5,178,388.763		STA: 2+319.338 E: 665,580.372 N: 5,178,396.606	
C-4	CURVE	50.434	250.000	44° 11' 31.12"	STA: 2+319.338 E: 665,580.372 N: 5,178,396.606	E: 665,596.093 N: 5,178,416.432	STA: 2+369.771 E: 665,615.468 N: 5,178,432.706	11° 33' 30.7"
T-5	TANGENT	51.644		49° 58' 16.46"	STA: 2+369.771 E: 665,615.468 N: 5,178,432.706		STA: 2+421.416 E: 665,655.013 N: 5,178,465.923	

DETOUR 2 - SUPERELEVATION DEVELOPMENT

CURVE C-1		RADIUS = 600.0		Emax = 0.020
STATION	LEFT LANE	CL ELEV.	RIGHT LANE	DESCRIPTION
2+009.952	-0.020	412.655	-0.020	NORMAL CROWN
2+090.393	-0.020	405.974	-0.020	NORMAL CROWN
CURVE C-2		RADIUS = 600.0		Emax = 0.020
STATION	LEFT LANE	CL ELEV.	RIGHT LANE	DESCRIPTION
2+095.464	-0.020	405.419	-0.020	NORMAL CROWN
2+145.000	-0.020	400.005	-0.020	NORMAL CROWN
2+172.000	0.000	398.404	0.000	FLAT
CURVE C-3		RADIUS = 250.0		Emax = 0.031
STATION	LEFT LANE	CL ELEV.	RIGHT LANE	DESCRIPTION
2+240.000	0.000	395.952	0.000	FLAT
2+255.109	-0.020	395.609	0.020	REVERSE CROWN
2+263.000	-0.031	395.559	0.031	BEGIN FULL SUPER
2+301.000	-0.031	396.565	0.031	END FULL SUPER
2+305.598	-0.020	396.827	0.020	REVERSE CROWN
2+314.000	0.000	396.985	0.000	FLAT
CURVE C-4		RADIUS = 250.0		Emax = 0.031
STATION	LEFT LANE	CL ELEV.	RIGHT LANE	DESCRIPTION
2+322.366	0.020	398.037	-0.020	REVERSE CROWN
2+327.000	0.031	398.430	-0.031	BEGIN FULL SUPER
2+362.000	0.031	401.269	-0.031	END FULL SUPER
2+369.771	0.020	401.871	-0.020	REVERSE CROWN
2+384.000	0.000	402.972	-0.020	LEVEL CROWN
2+400.000	-0.020	404.210	-0.020	NORMAL CROWN

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LEGEND EXISTING	
8m	CONTOUR & ELEVATION
⊕	ROADWAY
---	EDGE OF PAVE
□	GUARD RAIL
—/—/—/—/—/—	ASPHALT GUTTER
---	DAYLIGHT
---	EDGE OF GRAVEL
---	EDGE OF TREES
---	WATERCOURSE BOUNDARY
---	CULVERT
—	SIGN
—	BUILDING
⊕	BOREHOLE
⊕	BELL ALIANT JUNCTION BOX
—UG—	BELL ALIANT COMM. CABLES
LEGEND NEW	
---	EDGE OF PAVE
⊕	ROADWAY
---	EDGE OF PAVE
---	SHOULDER
□	GUARD RAIL
—/—/—/—/—/—	ASPHALT GUTTER
---	DITCH LINE
---	DITCH DRAINAGE
---	DAYLIGHT (TOP)
---	DAYLIGHT (TOE)
---	EDGE OF GRAVEL
---	CLEARING LIMIT
---	CULVERT
---	RIP-RAP

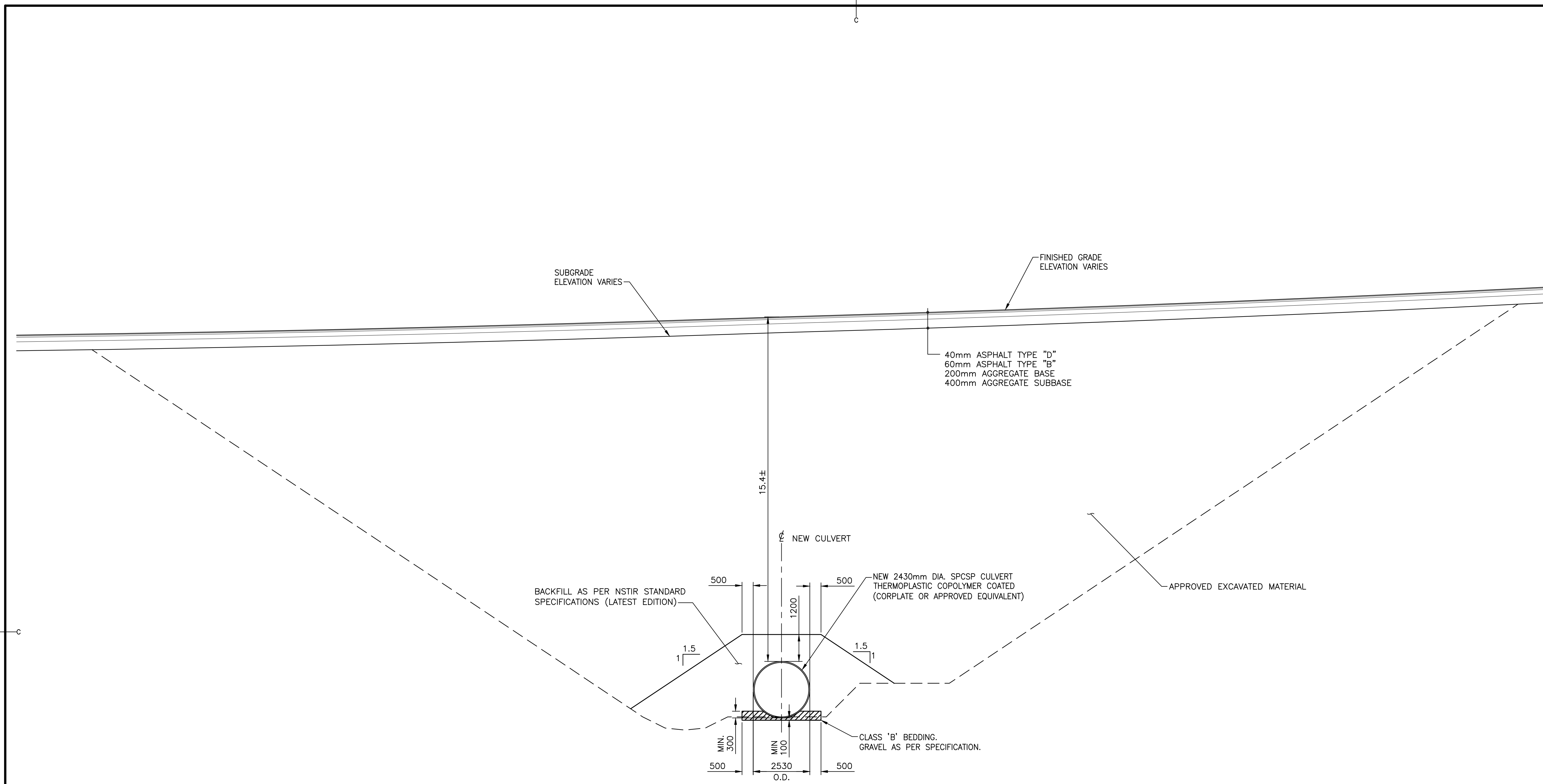


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project projet
**CABOT TRAIL REHABILITATION
 FRENCH TO MACKENZIE
 KM 15.9 TO 21.9
 CAPE BRETON HIGHLANDS
 NATIONAL PARK**

drawing dessin
**FISHING COVE RIVER
 EXCAVATION AND BACKFILL
 SECTION**

designed P.J.F.	conçu
date FEB. 20, 2017	
drawn J.L.D.	dessiné
date FEB. 20, 2017	
approved R.M.B.	approuvé
date FEB. 20, 2017	
Tender <i>[Signature]</i>	Soumission
PCA Project Manager	Administrateur de projets PCA
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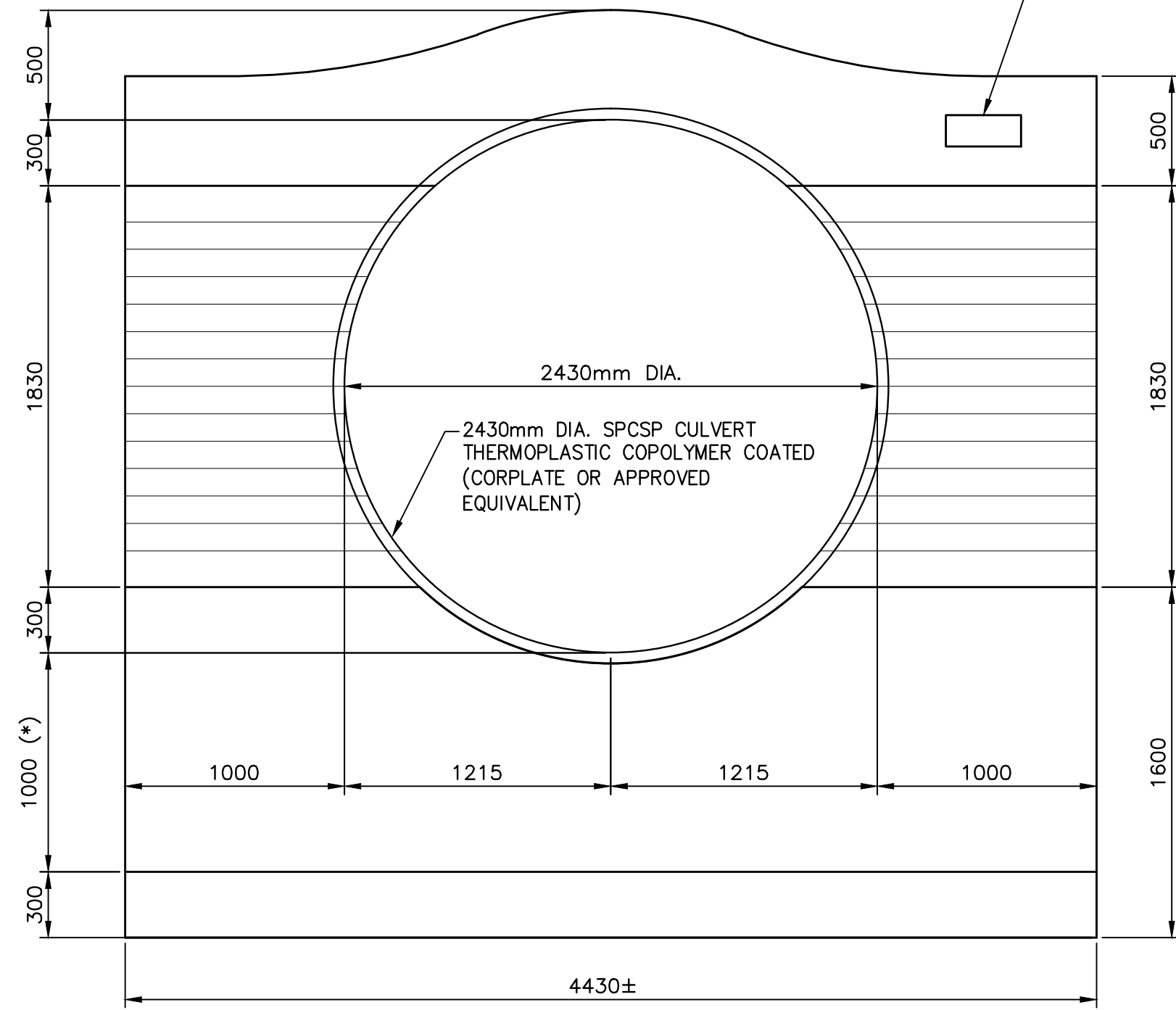


EXCAVATION AND BACKFILL SECTION
 SCALE: 1:100
 0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m
 LOOKING UPSTREAM

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- NOTES:**
- ALL REBAR, HOOK BOLTS AND U-BOLTS TO BE DESIGNED BY THE CONTRACTOR IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
 - ALL HOOK BOLTS AND U-BOLTS SHALL BE ELECTRICALLY ISOLATED FROM THE CONCRETE USING METHOD APPROVED BY THE MANUFACTURER.

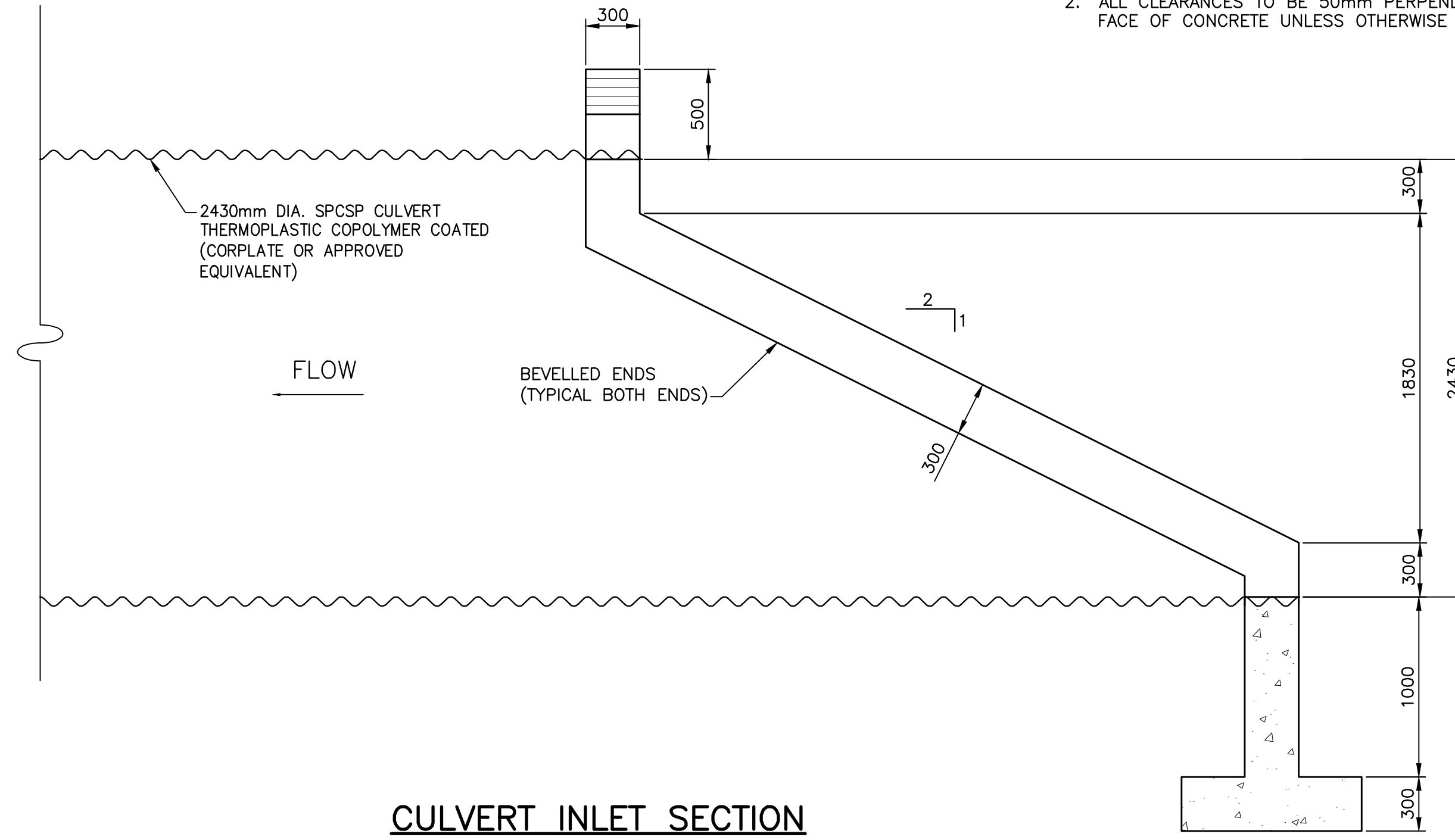
THE DEPARTMENTAL REPRESENTATIVE WILL INFORM THE CONTRACTOR AS TO THE SIZE AND LOCATION OF THE DATE ON THE HEADWALL (BOTH ENDS)



CULVERT INLET ELEVATION

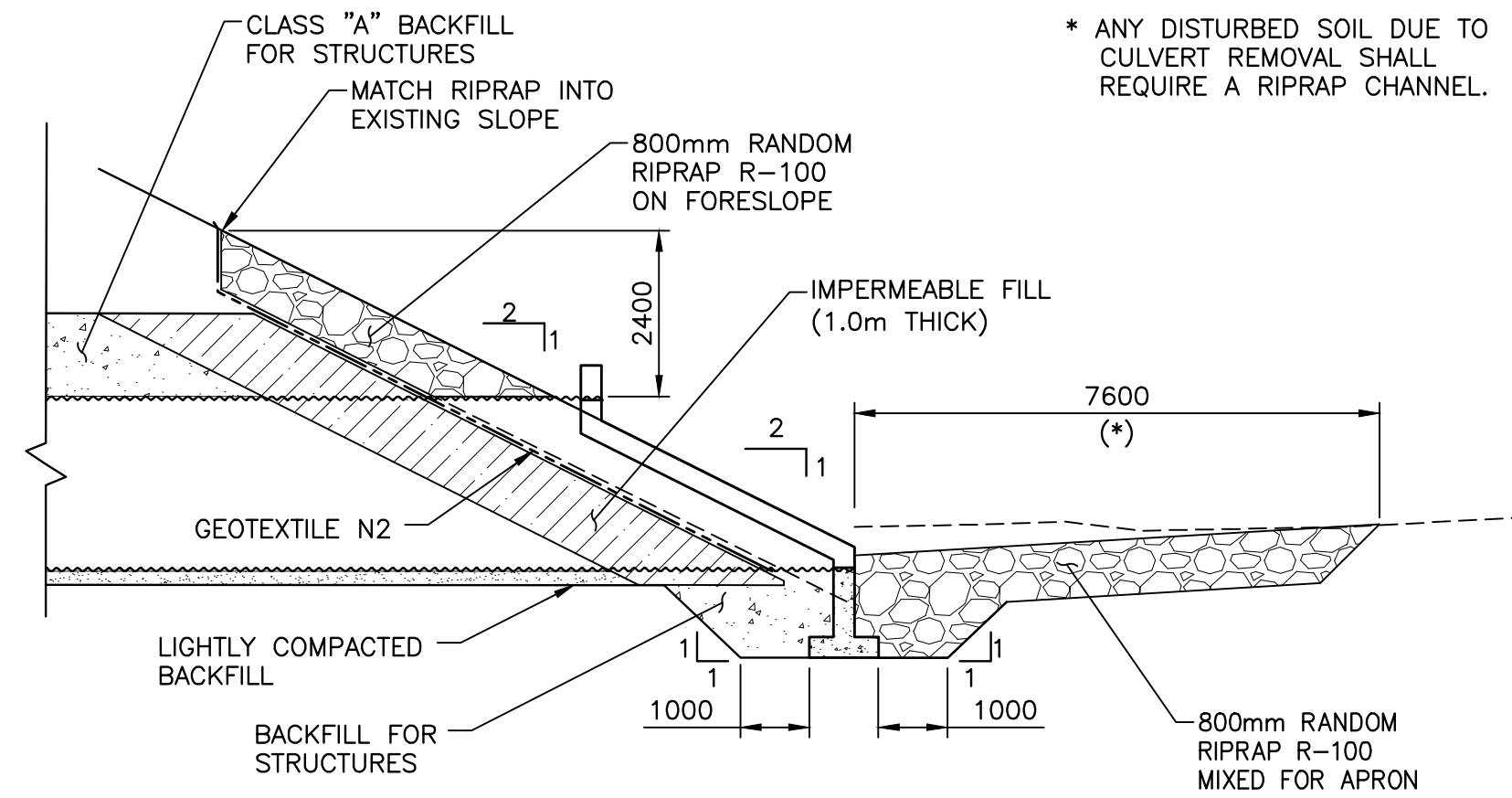
SCALE: 1:25
0mm 500mm 1000mm 1500mm 2000mm 2500mm

- NOTES:**
- ALL EXPOSED EDGES OF CONCRETE TO HAVE A 25mm x 25mm CHAMFER.
 - ALL CLEARANCES TO BE 50mm PERPENDICULAR TO FACE OF CONCRETE UNLESS OTHERWISE NOTED.



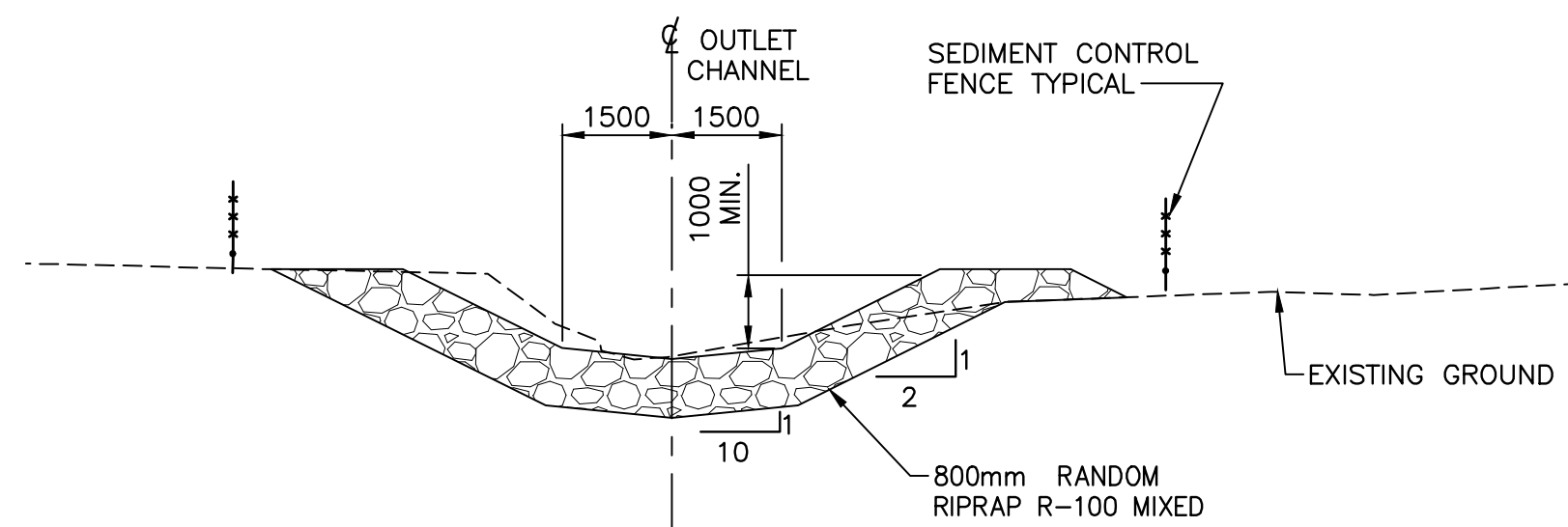
CULVERT INLET SECTION

SCALE: 1:25
0mm 500mm 1000mm 1500mm 2000mm 2500mm



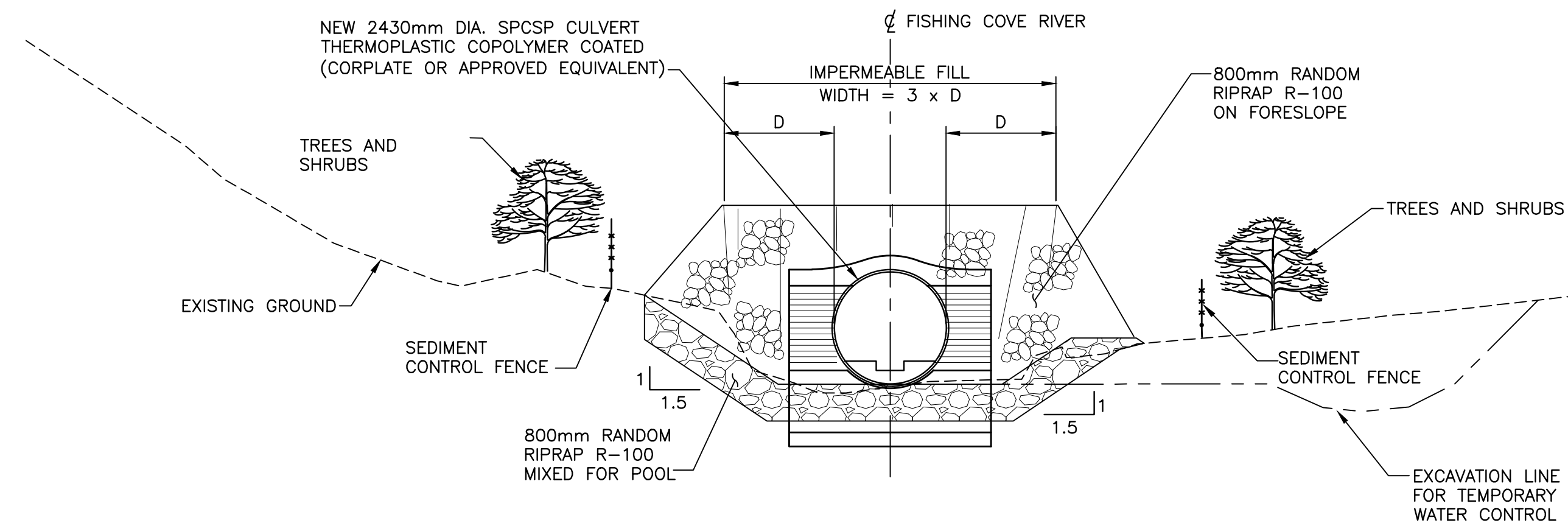
FILL DETAIL AT UPSTREAM END OF PIPE

SCALE: 1:100
0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m



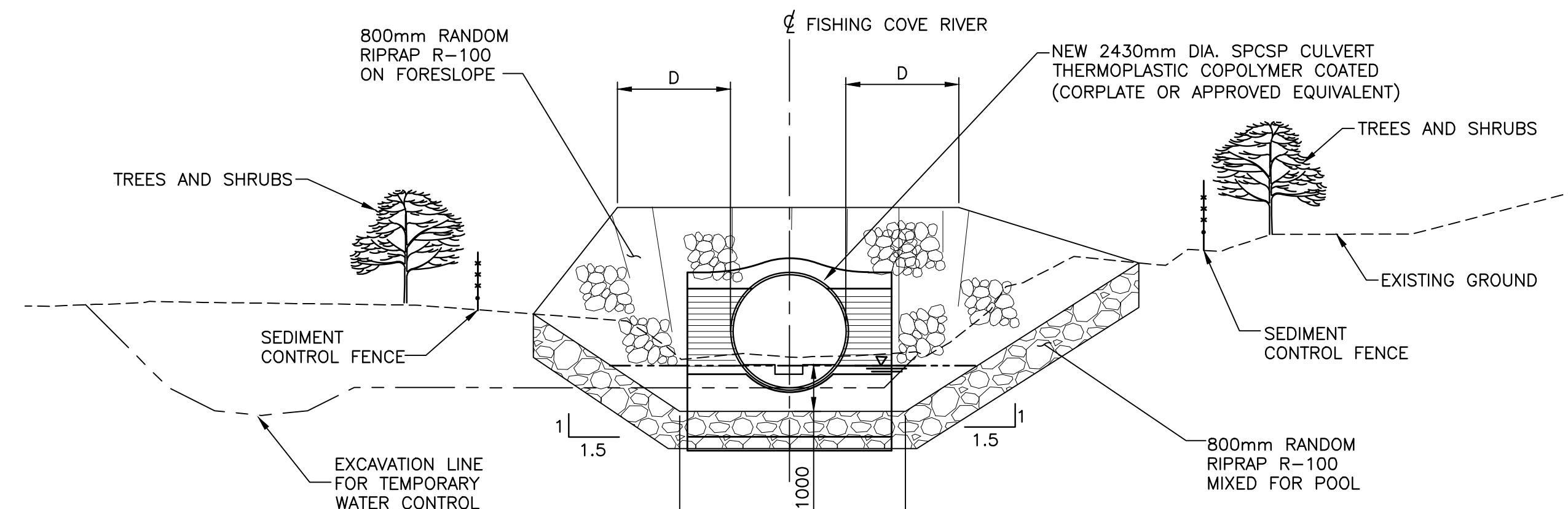
OUTLET CHANNEL SECTION

SCALE: 1:100
0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m



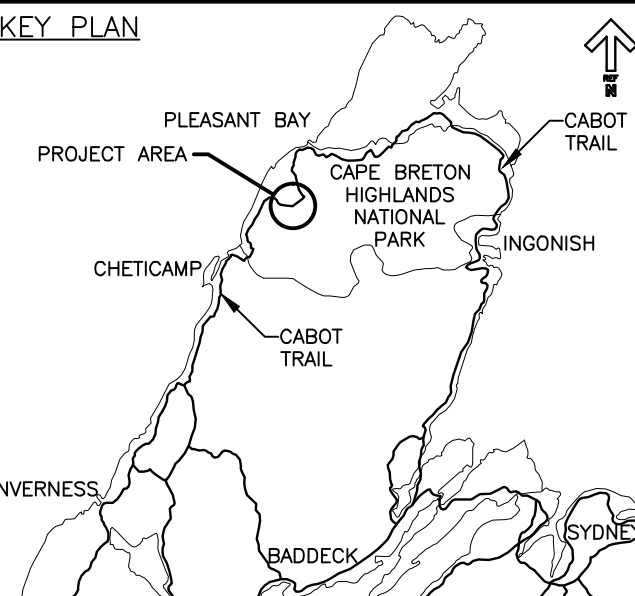
PIPE INLET SECTION

SCALE: 1:100
0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m



PIPE OULET & POOL SECTION

SCALE: 1:100
0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m



LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- CULVERT
- SIGN
- BUILDING
- BH-01 BOREHOLE
- BELL ALIANT JUNCTION BOX
- BELL ALIANT COMM. CABLES

LEGEND NEW

- EDGE OF PAVE
- ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- ASPHALT GUTTER
- DITCH LINE
- DITCH DRAINAGE
- DAYLIGHT (TOP)
- DAYLIGHT (TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
- CULVERT
- RIP-RAP



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project project
**CABOT TRAIL REHABILITATION
 FRENCH TO MACKENZIE
 KM 15.9 TO 21.9
 CAPE BRETON HIGHLANDS
 NATIONAL PARK**

drawing dessin
**FISHING COVE RIVER
 SECTIONS AND DETAILS**

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date FEB. 20, 2017	
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Tender <i>Stantec</i>	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

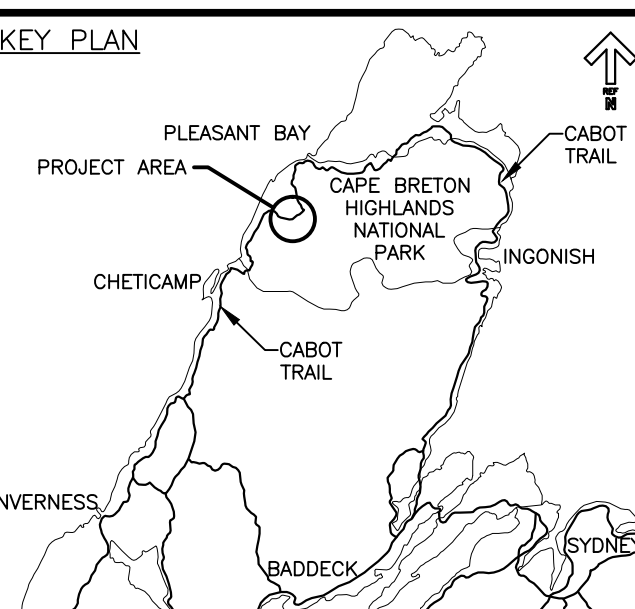
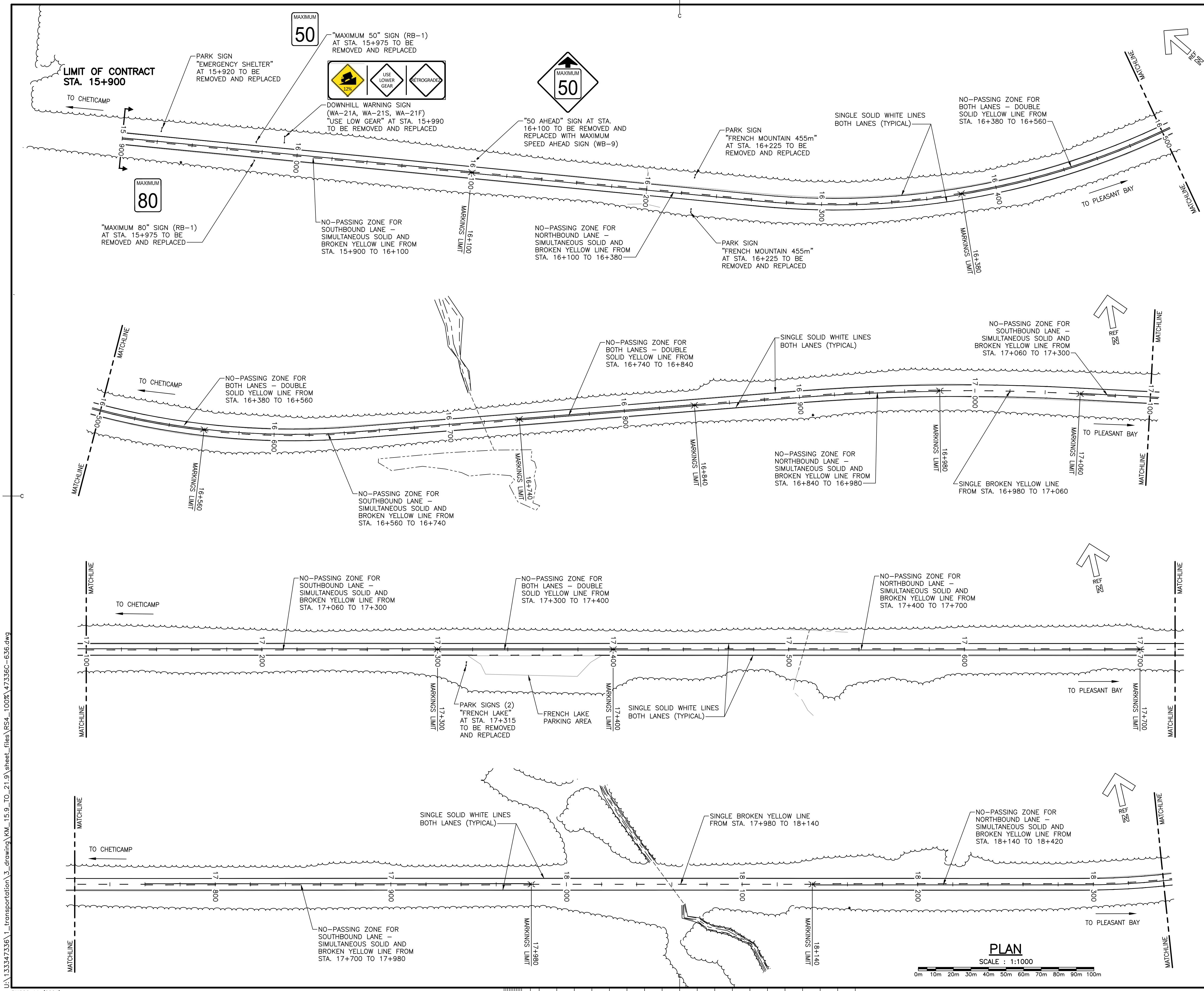
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drawing no. no. du dessin

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LEGEND

II LIMIT OF MARKINGS

NOTES:

1. PARK INFORMATION SIGNS TO BE SUPPLIED BY PARKS CANADA, CONTRACTOR TO INSTALL.
2. REGULATORY AND WARNING SIGNS TO BE SUPPLIED AND INSTALLED BY CONTRACTOR.
3. ALL REGULATORY AND WARNING SIGNS ARE TO BE REMOVED AND REPLACED c/w NEW POSTS.
4. ALL PARK INFORMATION SIGNS ARE TO BE REMOVED, STORED AND REINSTATED ON NEW POSTS AT THE DIRECTION OF THE DEPARTMENTAL REPRESENTATIVE.
5. CONTRACTOR TO SUPPLY AND INSTALL ALL PAVEMENT LINE MARKINGS.
6. ALL PAVEMENT MARKINGS TO CONFORM TO NSTIR STANDARD SPECIFICATION - (LATEST EDITION) - DIVISION 6 - SECTION 6.
7. PAVEMENT MARKINGS SHOWN ARE APPROXIMATE AND SHALL BE CONFIRMED AND APPROVED ON SITE BY THE DEPARTMENTAL REPRESENTATIVE.
8. ALL TRAFFIC MARKINGS SHALL BE IN ACCORDANCE WITH THE TRANSPORTATION ASSOCIATION OF CANADA (TAC) MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND SPECIFICATIONS.



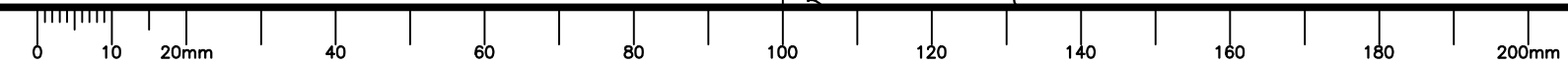
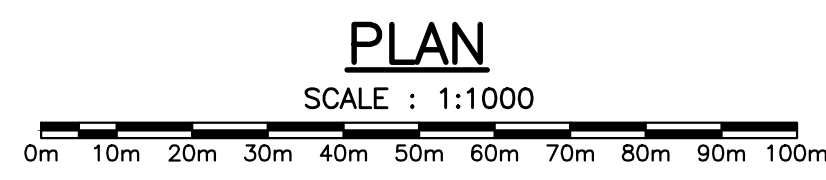
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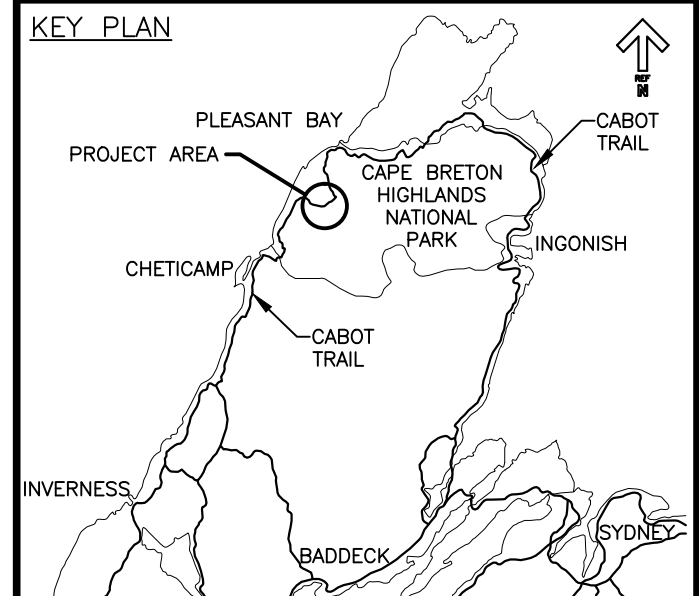
**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

**SIGNAGE AND
PAVEMENT
MARKING PLAN
STA. 15+900 TO
STA. 18+340**

designed DSC	conçu
date FEB. 20, 2017	
drawn ETH	dessiné
date FEB. 20, 2017	
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Tender	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

1114
drawing no. no. du dessin
C-36





LEGEND

1 LIMIT OF MARKINGS

- NOTES:**
1. PARK INFORMATION SIGNS TO BE SUPPLIED BY PARKS CANADA, CONTRACTOR TO INSTALL.
 2. REGULATORY AND WARNING SIGNS TO BE SUPPLIED AND INSTALLED BY CONTRACTOR.
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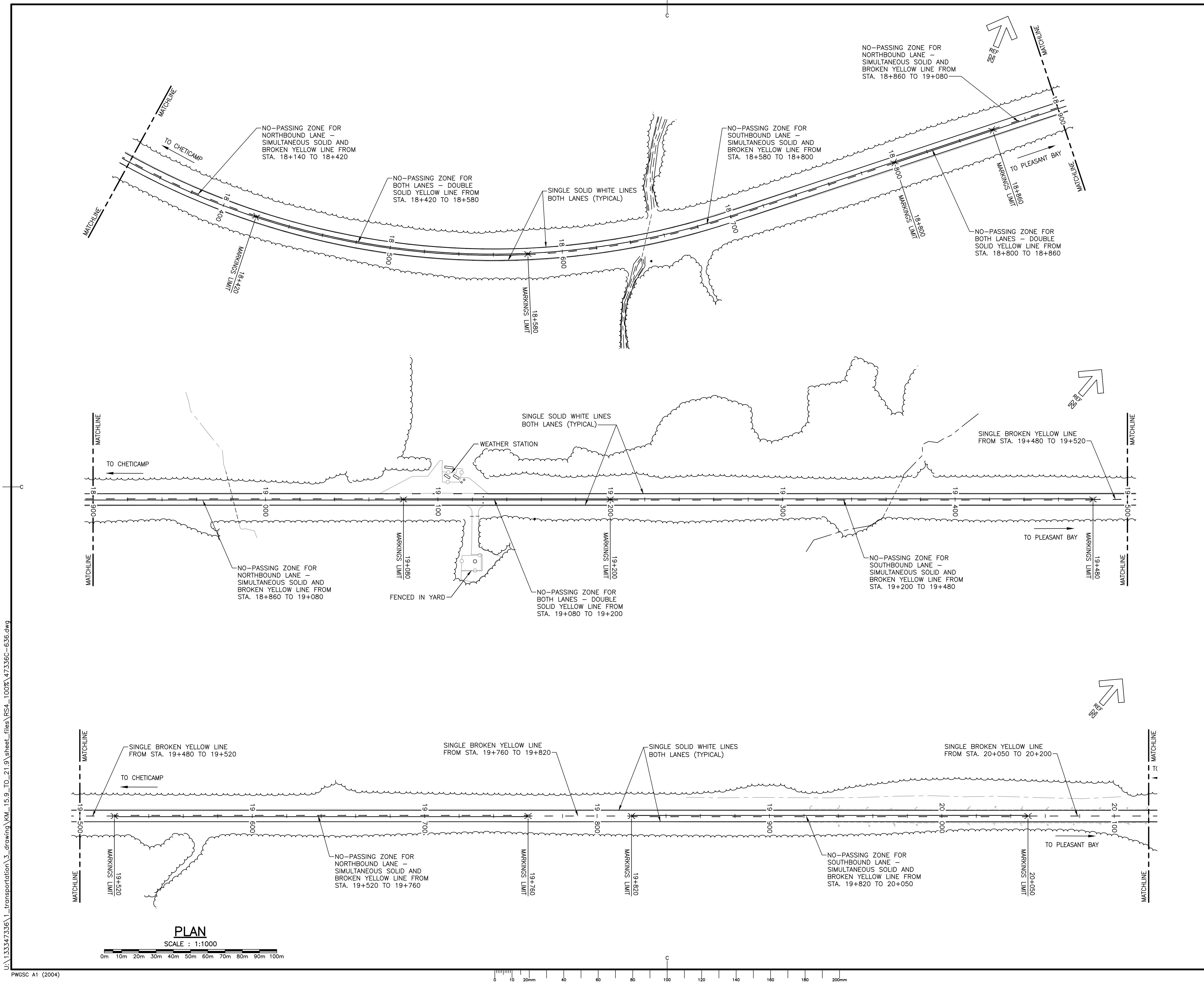


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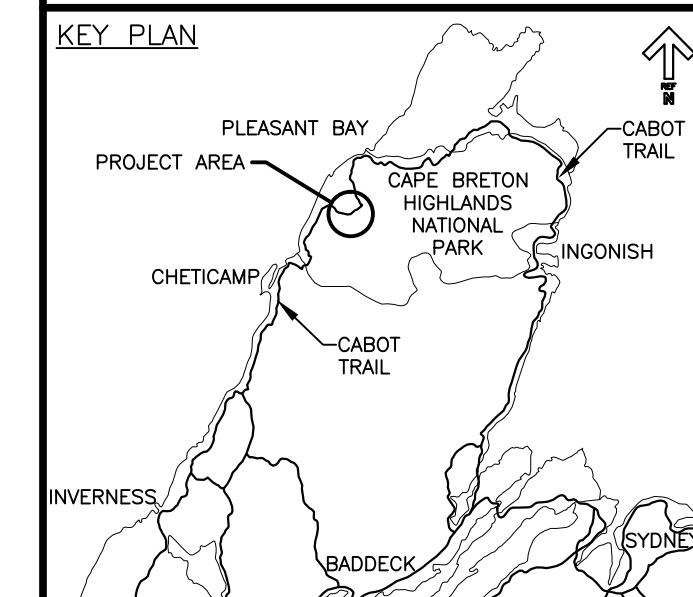
**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

**SIGNAGE AND
PAVEMENT
MARKING PLAN
STA. 18+340 TO
STA. 20+120**

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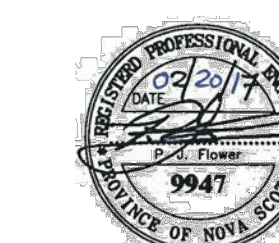


LEGEND

1 LIMIT OF MARKINGS

NOTES:

1. PARK INFORMATION SIGNS TO BE SUPPLIED BY PARKS CANADA, CONTRACTOR TO INSTALL.
2. REGULATORY AND WARNING SIGNS TO BE SUPPLIED AND INSTALLED BY CONTRACTOR.
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**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing design

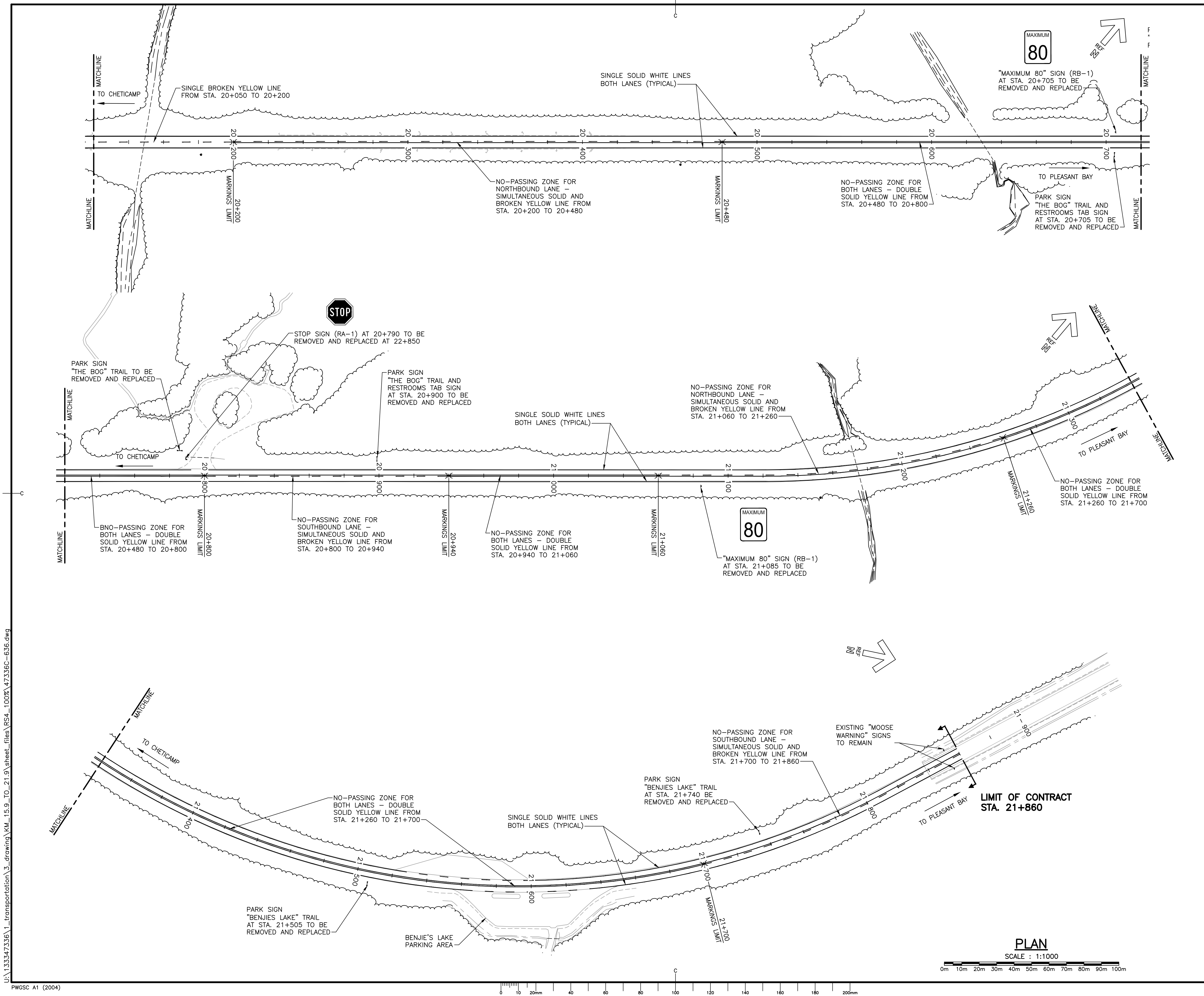
**SIGNAGE AND
PAVEMENT
MARKING PLAN
STA. 20+120 TO
STA. 21+860**

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date FEB. 20, 2017	
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date FEB. 20, 2017	
Tender	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

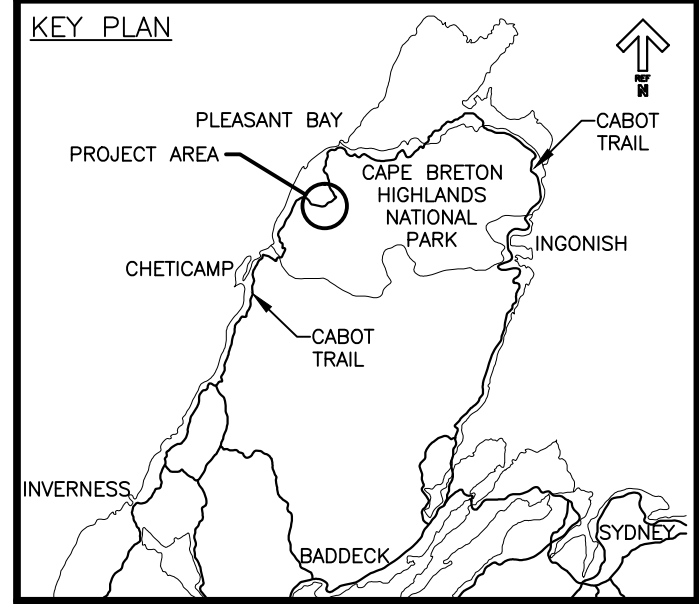
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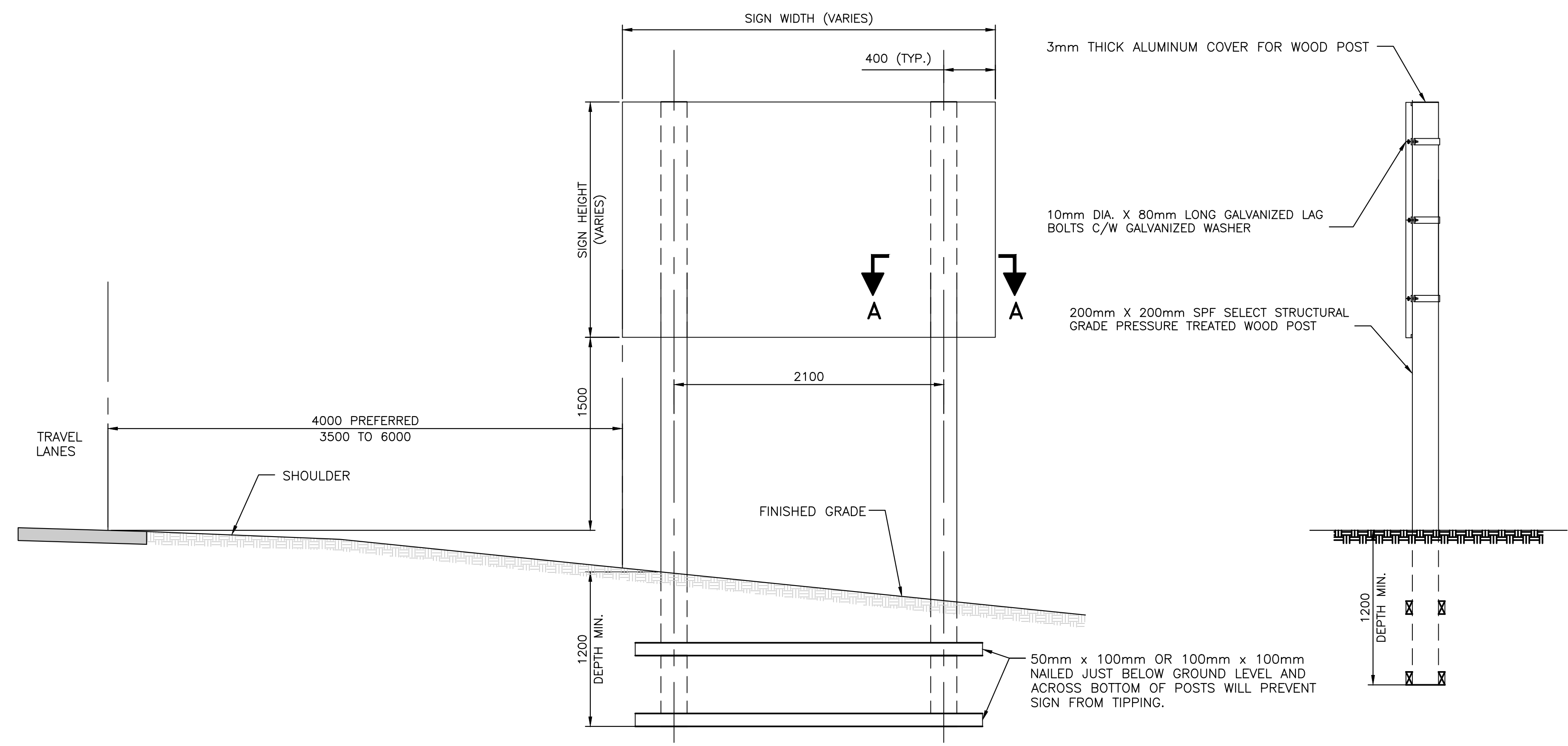
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**CABOT TRAIL REHABILITATION
 FRENCH TO MACKENZIE
 KM 15.9 TO 21.9
 CAPE BRETON HIGHLANDS
 NATIONAL PARK**

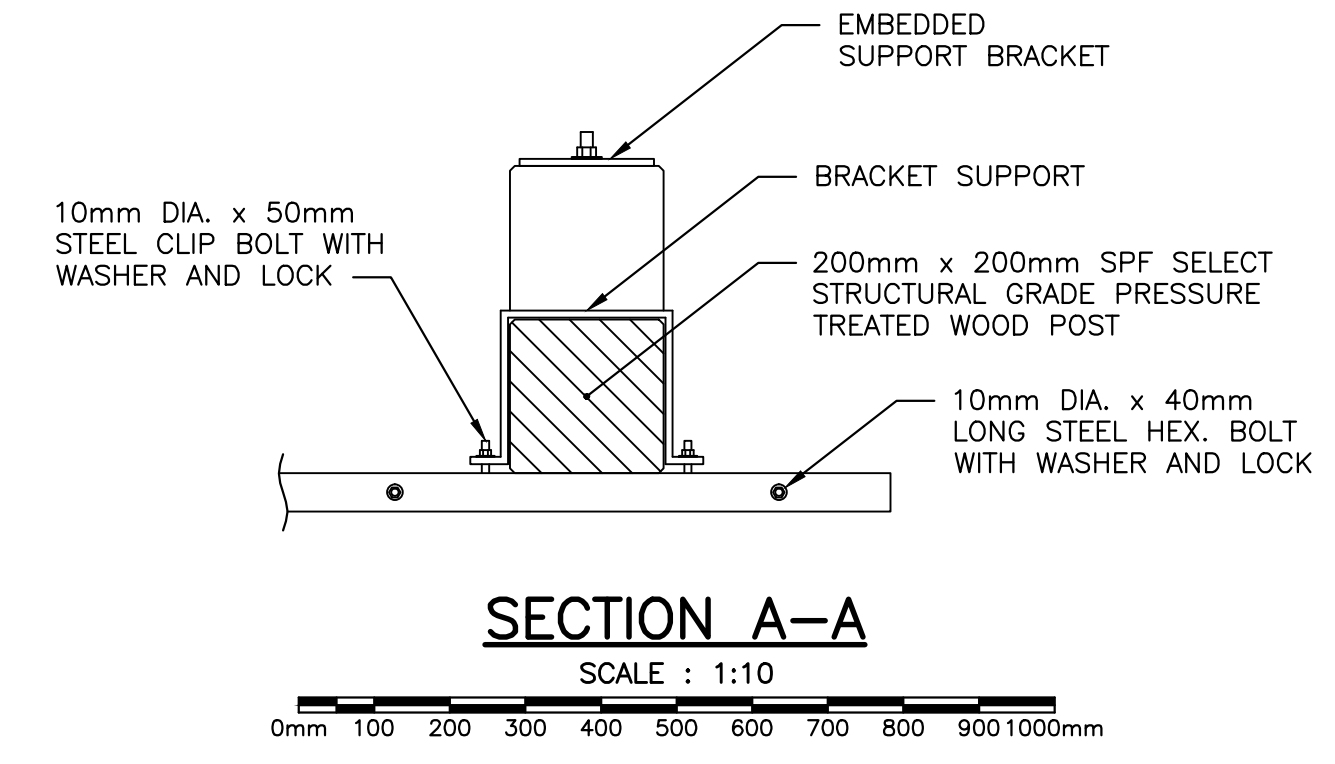
drawing dessin
**SIGNAGE AND
 PAVEMENT
 MARKING DETAILS**

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date FEB. 20, 2017	
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date FEB. 20, 2017	
Tender <i>Stantec</i>	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

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C-39

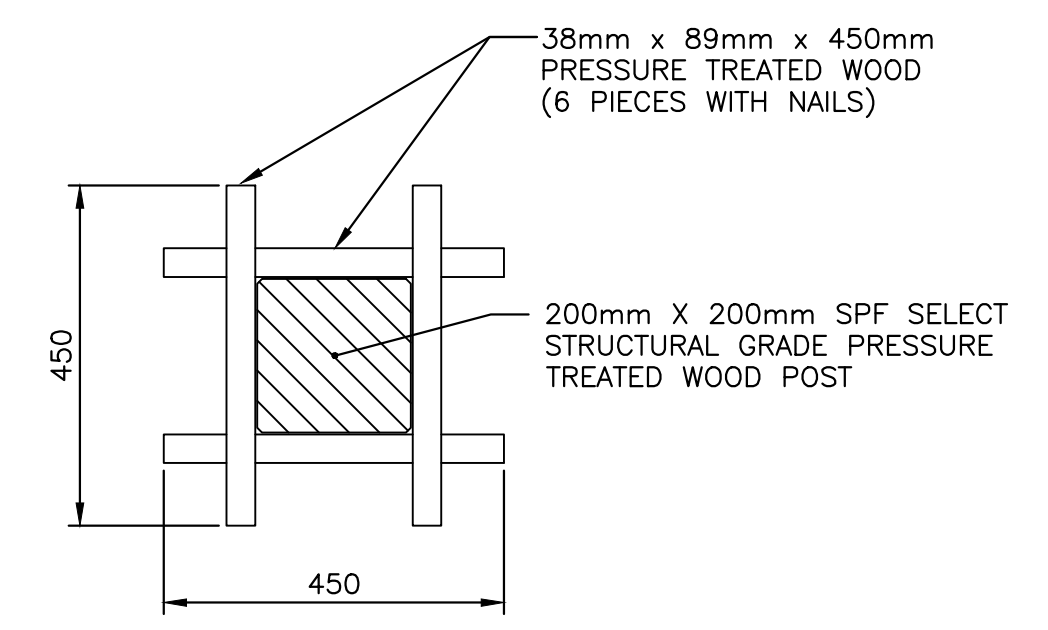


**TYPICAL TWO POST SIGN
 FRONT AND SIDE ELEVATION VIEW**
 SCALE: 1:25



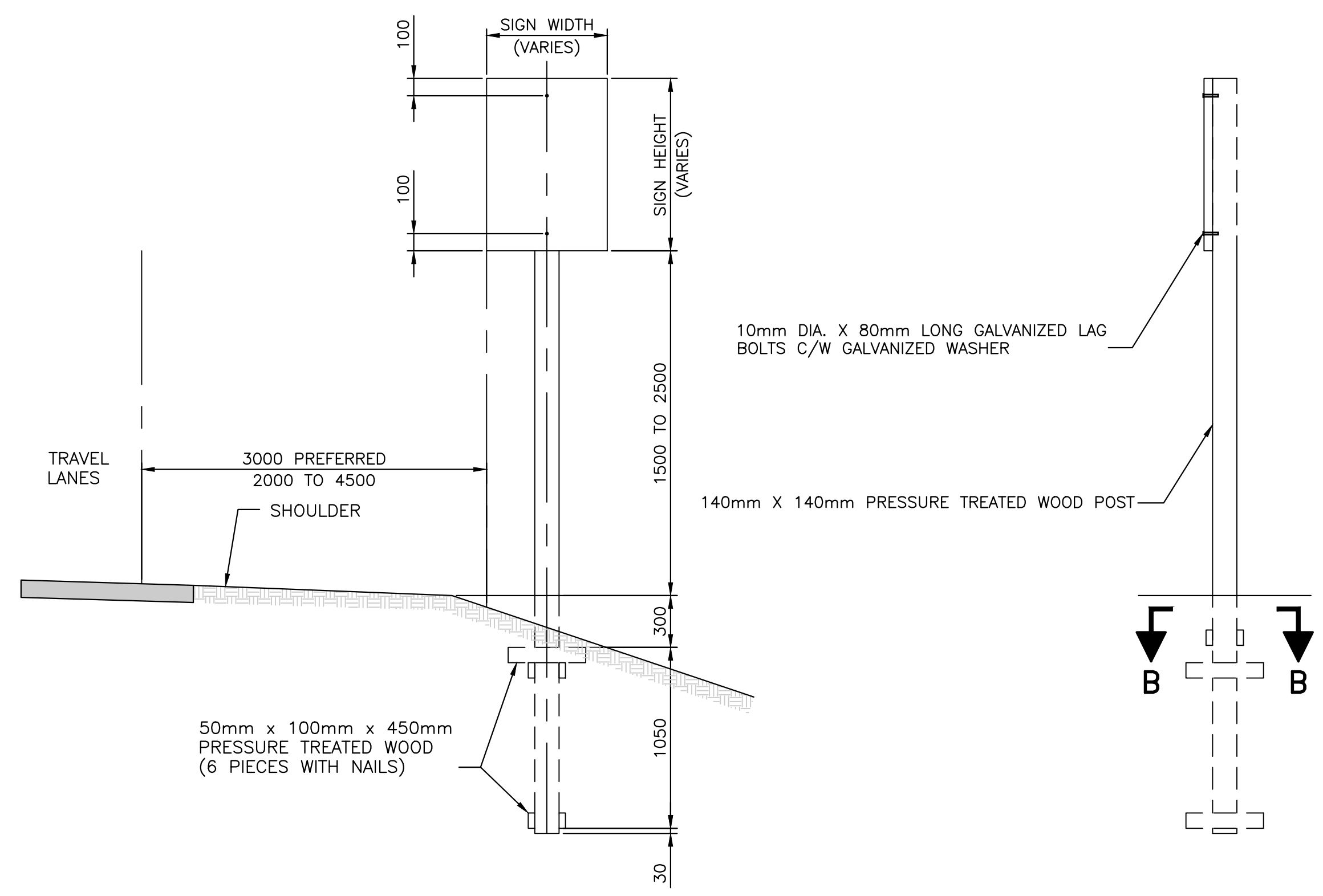
SECTION A-A

SCALE : 1:10
 0mm 100 200 300 400 500 600 700 800 900 1000mm



SECTION B-B

SCALE : 1:10
 0mm 100 200 300 400 500 600 700 800 900 1000mm



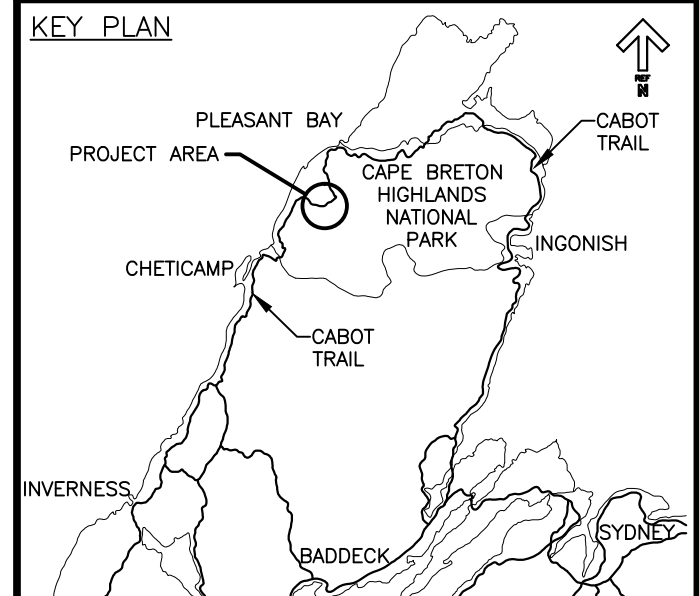
**TYPICAL ONE POST SIGN
 FRONT AND SIDE ELEVATION VIEW**
 SCALE: 1:25

0mm 500mm 1000mm 1500mm 2000mm 2500mm

LONGITUDINAL MARKINGS		
NAME OF LINE	LENGTH DIMENSIONS (m) AND WIDTH DIMENSIONS (m)	USE
SOLID	100	EDGE LINES/PARKING STALLS (WHITE) DIRECTIONAL DIVIDING LINES (YELLOW) LANE LINES PROHIBITING LANE CHANGES (WHITE)
BROKEN	100	DIRECTIONAL DIVIDING LINES (YELLOW) LANE LINES (WHITE)
SIMULTANEOUS SOLID AND BROKEN	100	DIRECTIONAL DIVIDING LINES (YELLOW) TWO-WAY LEFT TURN LANES (YELLOW) LANE LINES WHERE LANE CHANGES FROM ONE SIDE ARE PROHIBITED (WHITE)
DOUBLE SOLID	100	DIRECTIONAL DIVIDING LINES (YELLOW)

**PAVEMENT MARKINGS
 (MUTCD - FIGURE C1-1)**

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project projet
**CABOT TRAIL REHABILITATION
 FRENCH TO MACKENZIE
 KM 15.9 TO 21.9
 CAPE BRETON HIGHLANDS
 NATIONAL PARK**

drawing dessin

**SIGNAGE AND
 PAVEMENT
 PRE-MARKING DETAILS**

designed DSC	conçu
date FEB. 20, 2017	
drawn ETH	dessiné
date FEB. 20, 2017	
approved RMB	approuvé
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Tender <i>Stantec</i>	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet
1114	
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C-40	

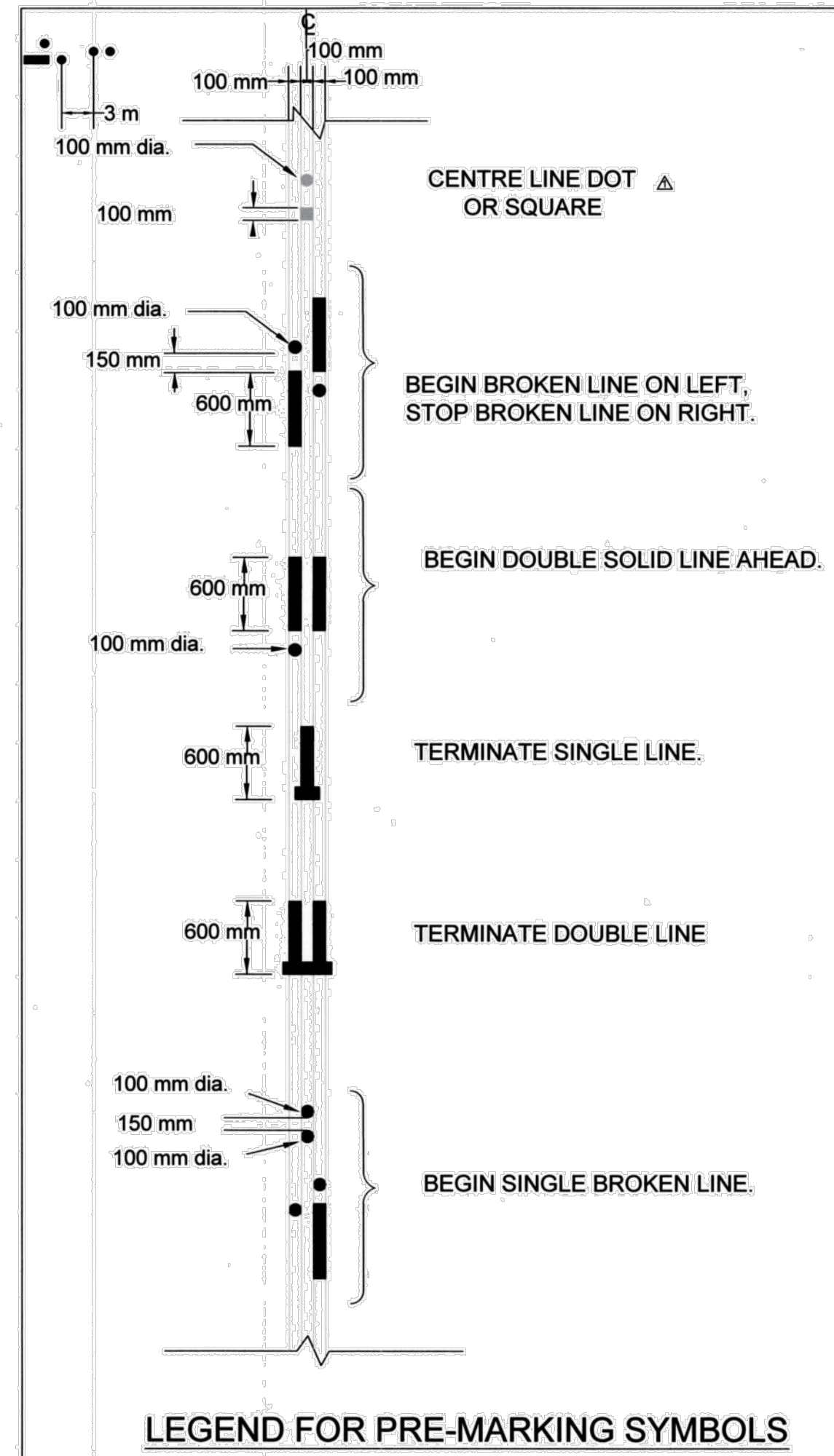
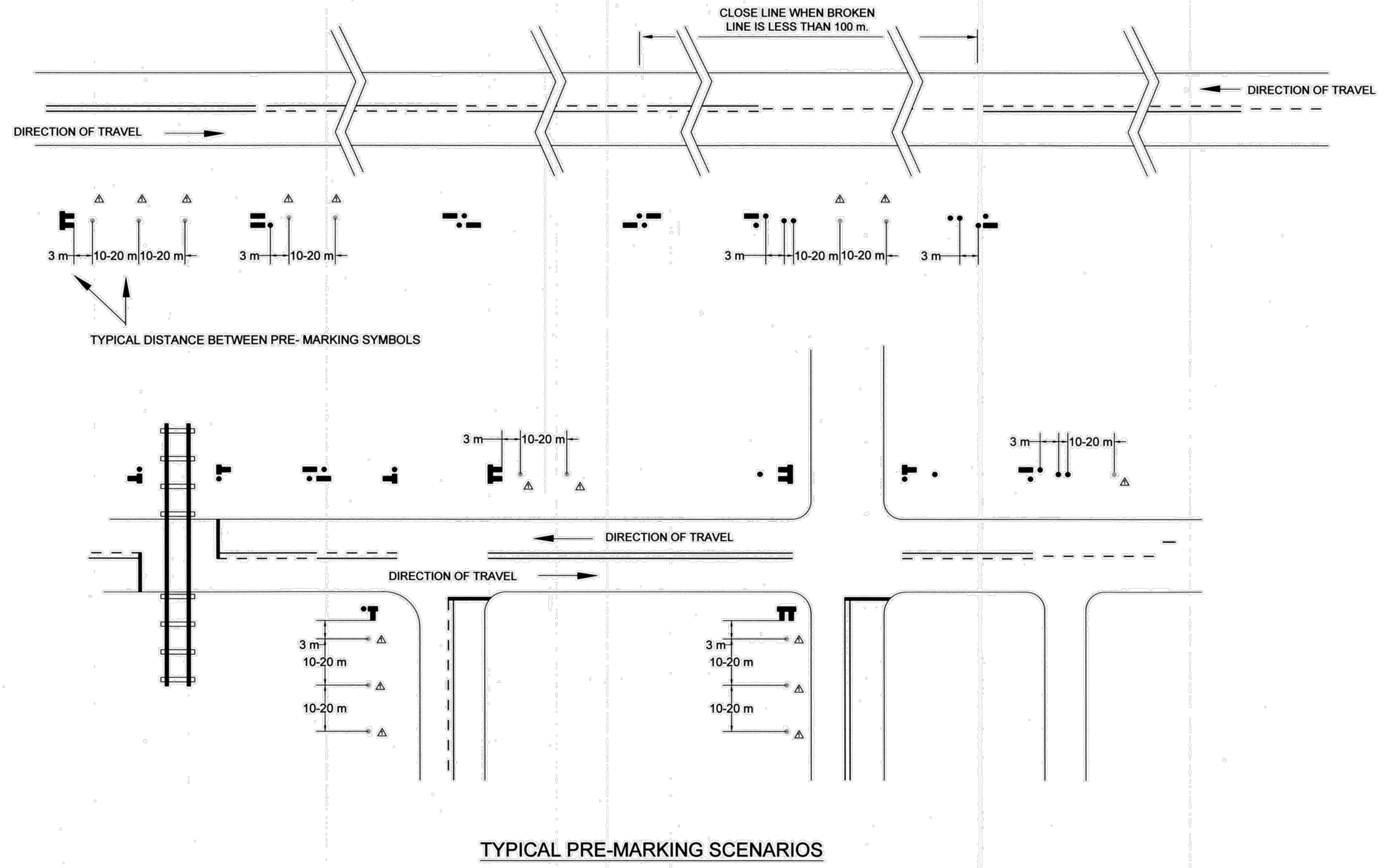
**TABLE 1
 NO-PASSING ZONE REQUIREMENT
 FOR VERTICAL
 OR HORIZONTAL CURVES**

SPEED LIMIT (km/h) <small>SEE NOTE 1</small>	MINIMUM SIGHT DISTANCE (m) <small>SEE NOTES 2 AND 3</small>
50	160
60	200
70	240
80	275
90	330
100	400
110	475
120	565

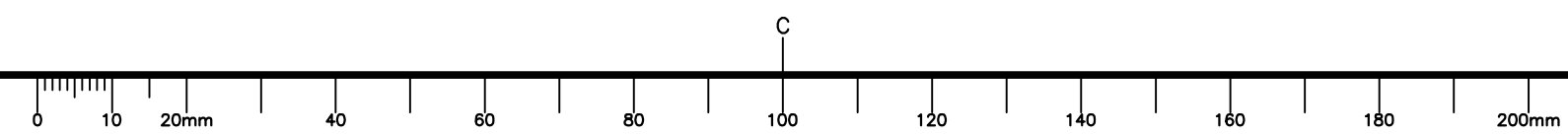
**TABLE 2
 SOLID LINE LENGTH ON
 APPROACHES TO INTERSECTIONS
 AND RAILWAY CROSSINGS**

SPEED LIMIT (km/h) <small>SEE NOTE 1</small>	SOLID LINE LENGTH (m)
50	80
60	100
70	120
80	140
90	165
100	200
110	240
120	285

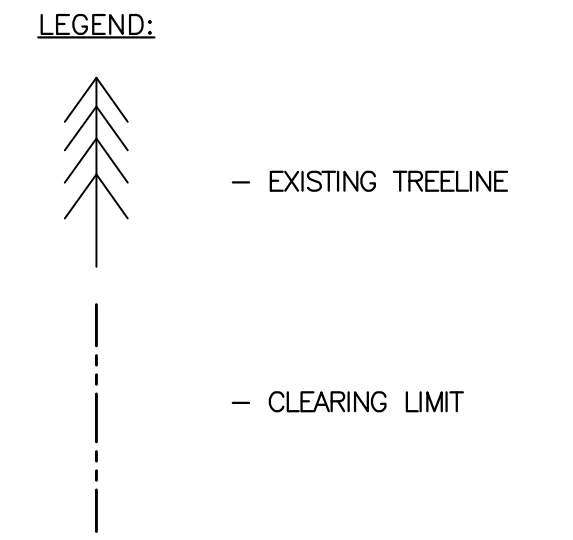
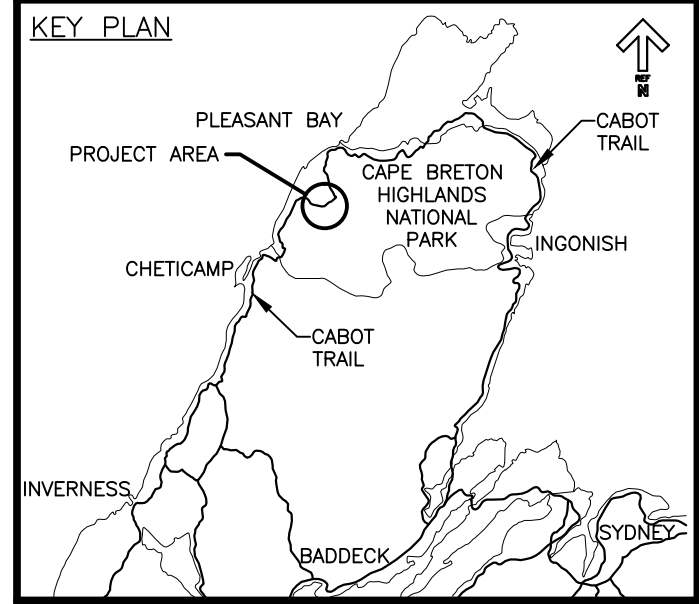
- NOTES**
- Use posted speed limit or 85th percentile speed whichever is higher.
 - Sight distance is based on a measurement from an eye height of 115 cm to an object height of 115 cm.
 - Mark a no-passing zone when the sight distance for the speed on the curve (measured in the field) is less than minimum sight distance listed in this Table 1.
 - Also see S-2013-312 Highway Signage and Pavement Markings - Railway Crossings



No.	Sign Classification	Description	Side (looking up chainage)	Station	Sign Dimensions (Regulatory & Warning Only)	MUTCD Sign ID (mm)	No. of Posts
1	Park	Park Sign - "Emergency" + Shelter & Telephone Logos	Left	15+920	N/A	-	2
2	Regulatory	Stop Sign	Right	15+935	600 x 600	RA-1	1
3	Regulatory	Speed Limit - "Maximum 80"	Right	15+980	600 x 750	RB-1	1
4	Regulatory	Speed Limit - "Maximum 50"	Left	15+980	600 x 750	RB-1	1
5	Warning	Warning - "Use Low Gear"	Left	15+995	750 x 750 (3)	WA-21A WA-21S WA-21SF	3
6	Warning	Speed Limit - "50 Ahead"	Left	16+100	750 x 750	WB-9	1
7	Park	Park Sign - "French Mountain 455m"	Left	16+230	N/A	-	3
8	Park	Park Sign - "French Mountain 455m"	Right	16+230	N/A	-	3
9	Park	Park Sign - "French Lake"	Right	17+320	N/A	-	2
10	Regulatory	Speed Limit - "Maximum 80"	Left	20+705	600 x 750	RB-1	1
11	Park	Park Sign - "The Bog Trail"	Right	20+705	N/A	-	3
12	Regulatory	Stop Sign	Left	20+790	600 x 600	RA-1	1
13	Regulatory	Speed Limit - "Maximum 80"	Right	21+085	600 x 750	RB-1	1
14	Park	Park Sign - "The Bog Trail"	Left	20+900	N/A	-	3
15	Park	Park Sign - "Benjies Lake Trail"	Right	21+505	N/A	-	3
16	Park	Park Sign - "Benjies Lake Trail"	Left	21+740	N/A	-	3



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project project
**CABOT TRAIL REHABILITATION
 FRENCH TO MACKENZIE
 KM 15.9 TO 21.9
 CAPE BRETON HIGHLANDS
 NATIONAL PARK**

drawing dessin

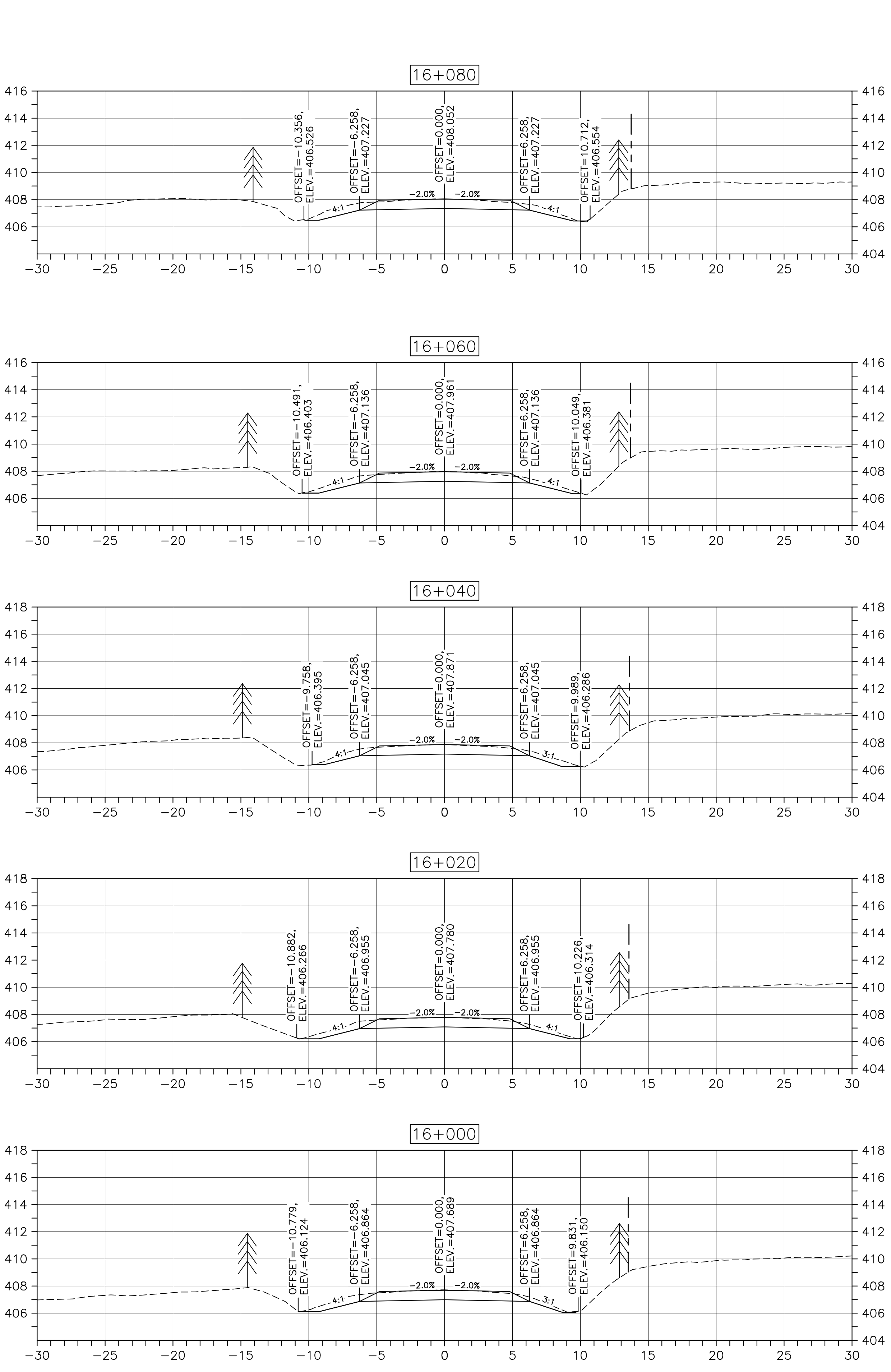
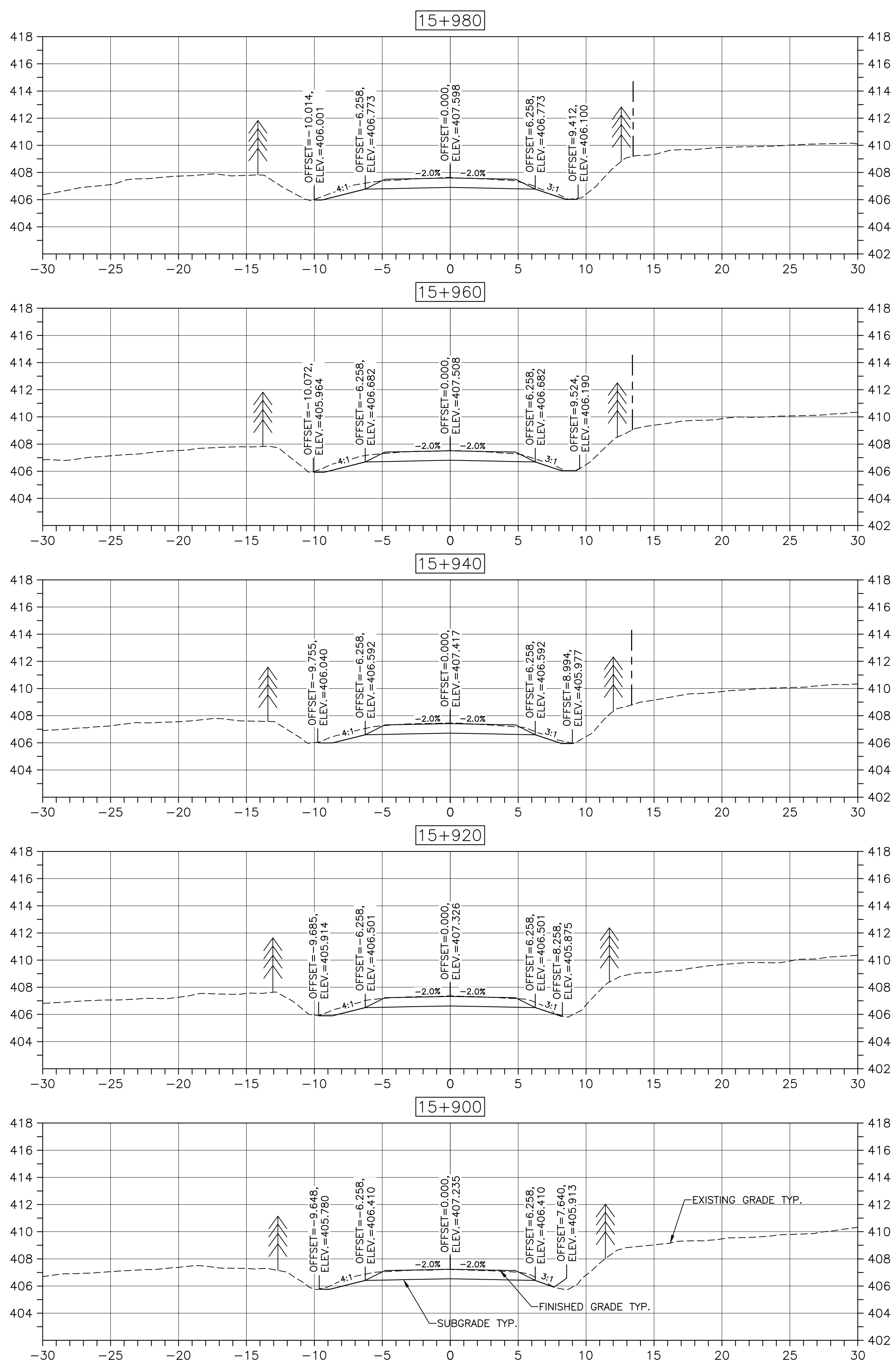
DESIGN SECTIONS

designed DSC	conçu
date FEB. 20, 2017	
drawn JLD	dessiné
date FEB. 20, 2017	
approved RMB	approuvé
date FEB. 20, 2017	
Tender <i>[Signature]</i>	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

1114

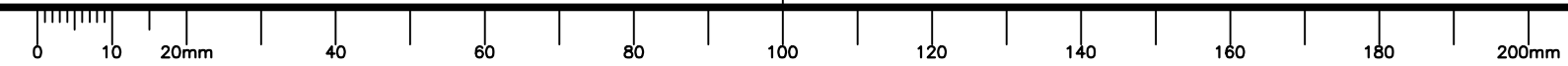
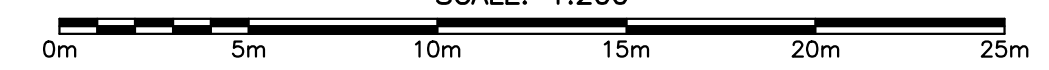
drawing no. no. du dessin

C-41

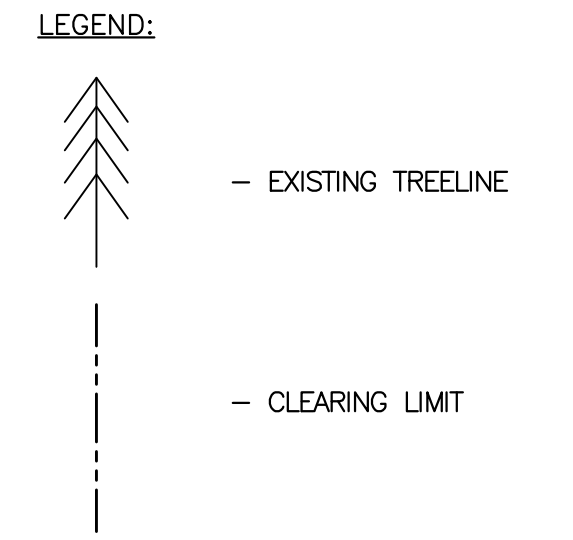
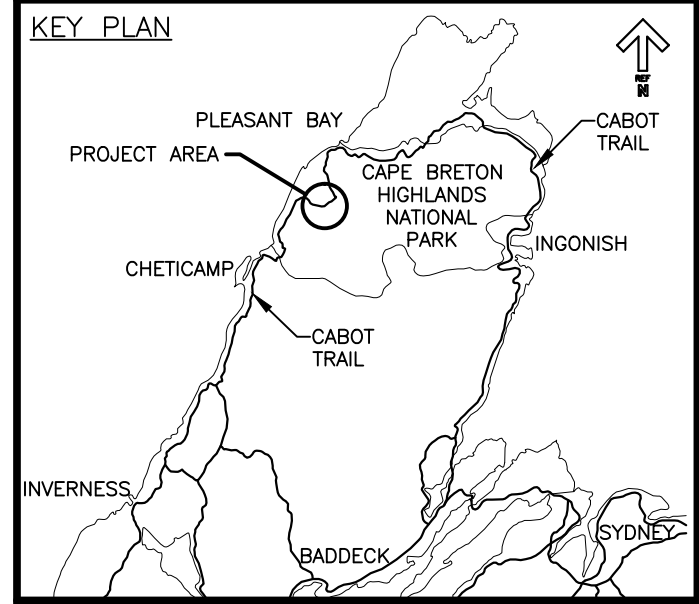


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0	ISSUED FOR TENDER	FEB. 20 2017
revisions		date

project project
**CABOT TRAIL REHABILITATION
 FRENCH TO MACKENZIE
 KM 15.9 TO 21.9
 CAPE BRETON HIGHLANDS
 NATIONAL PARK**

drawing dessin

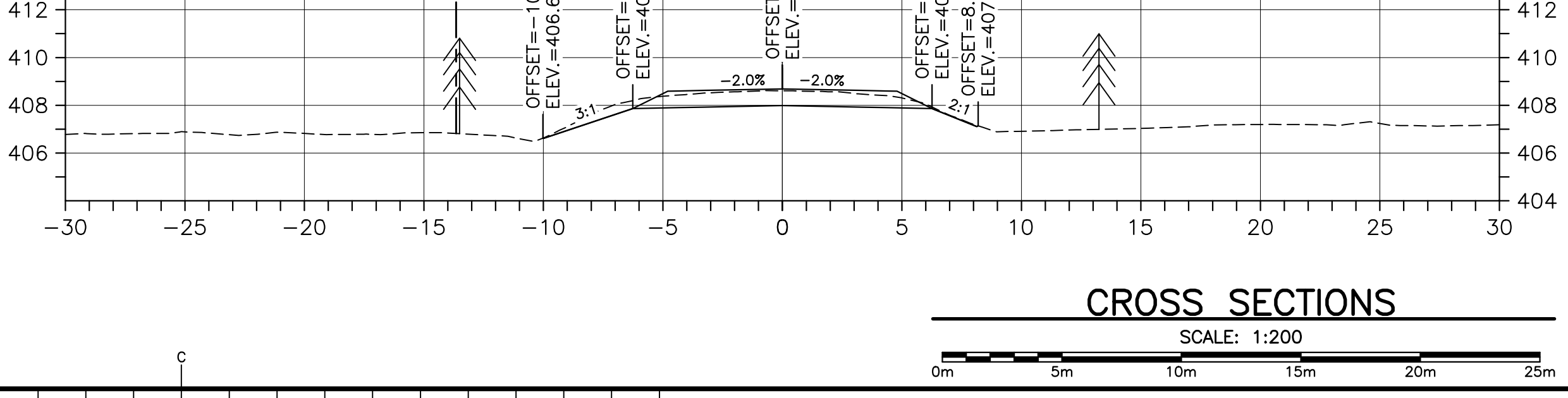
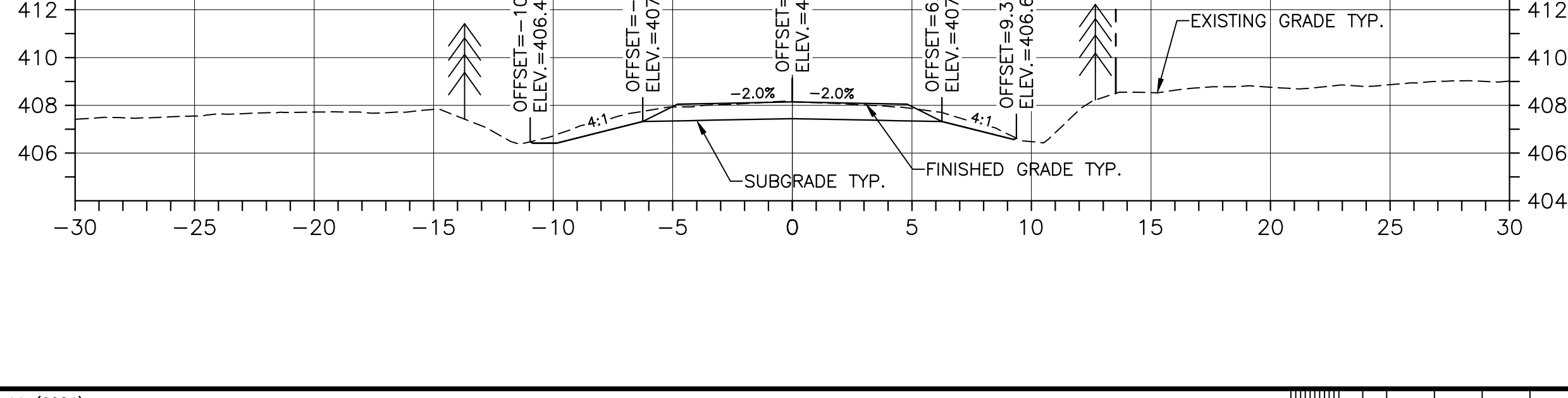
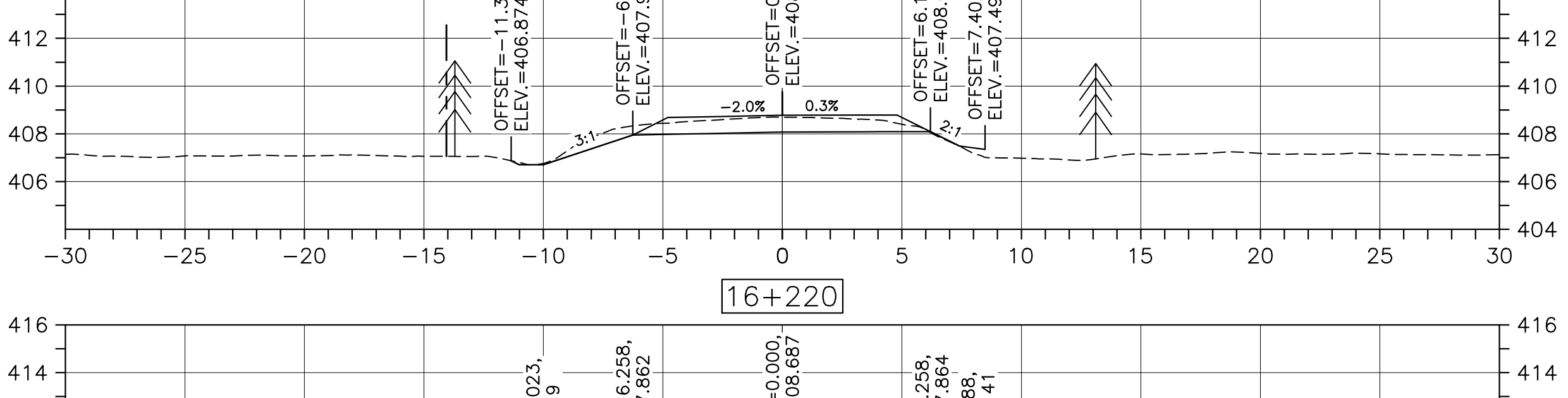
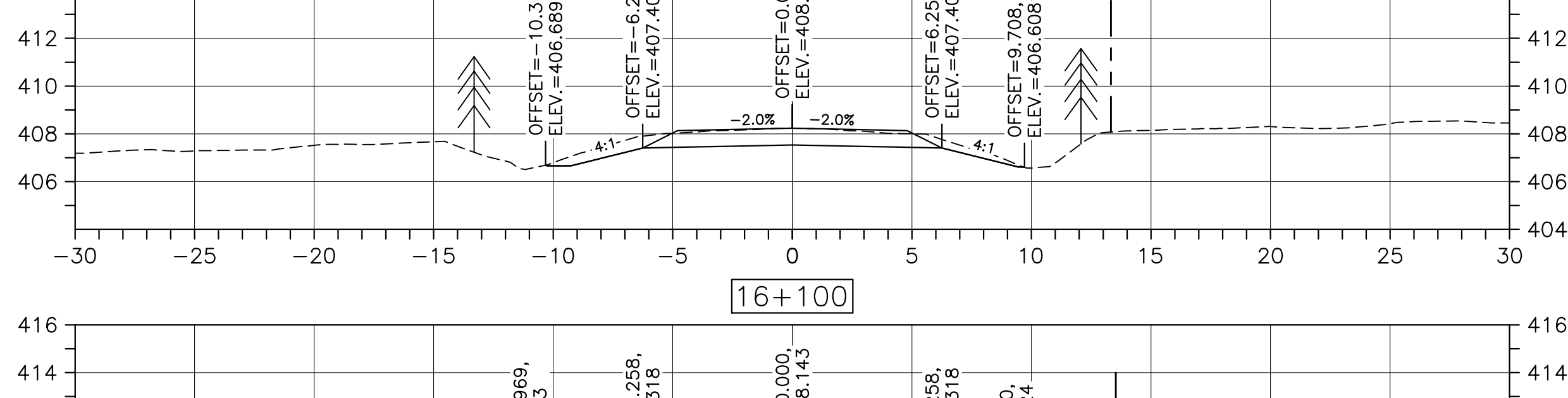
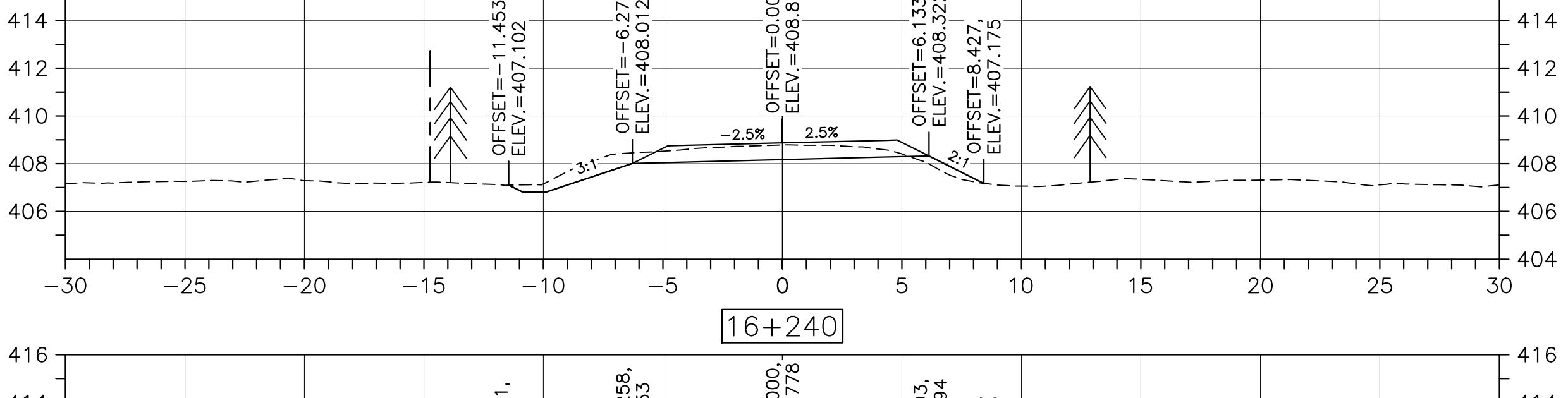
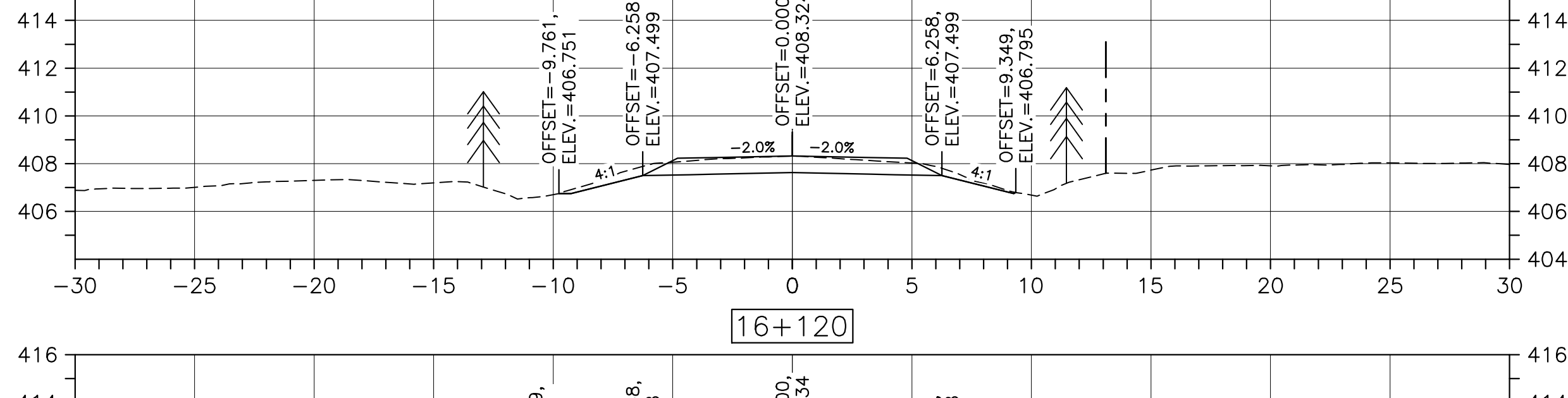
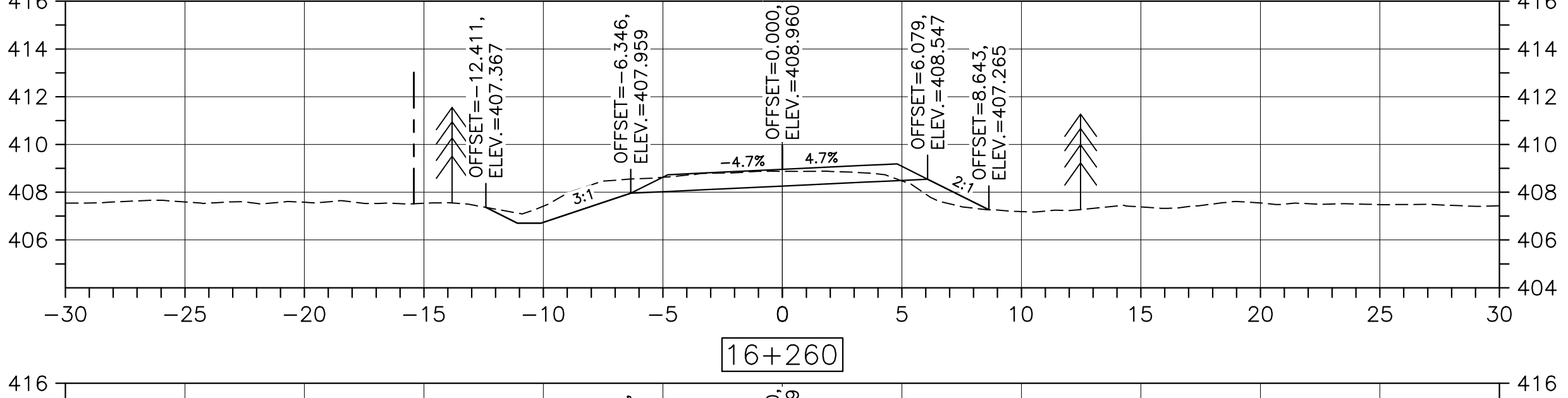
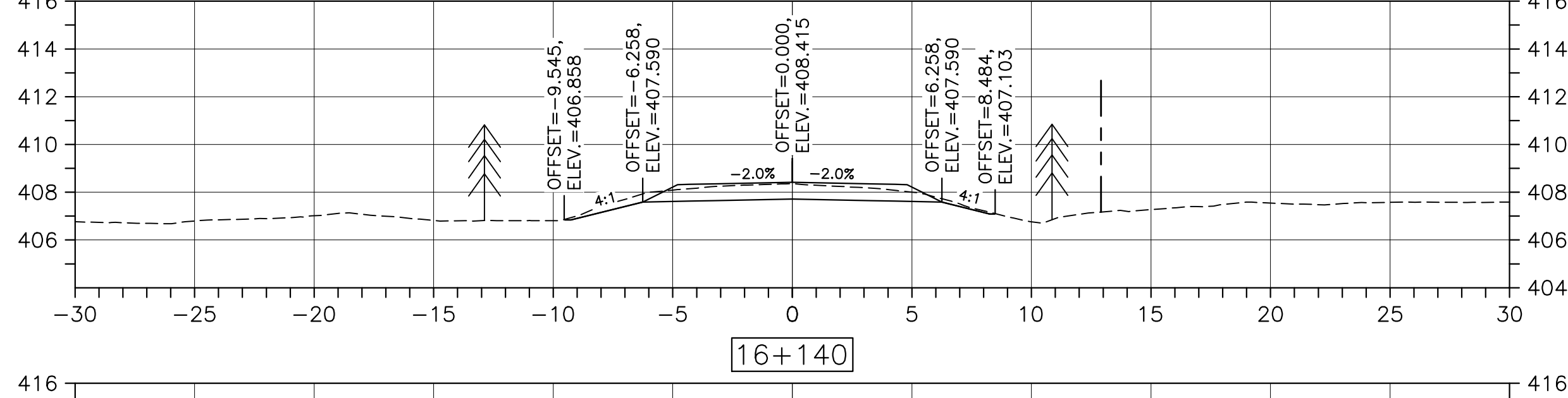
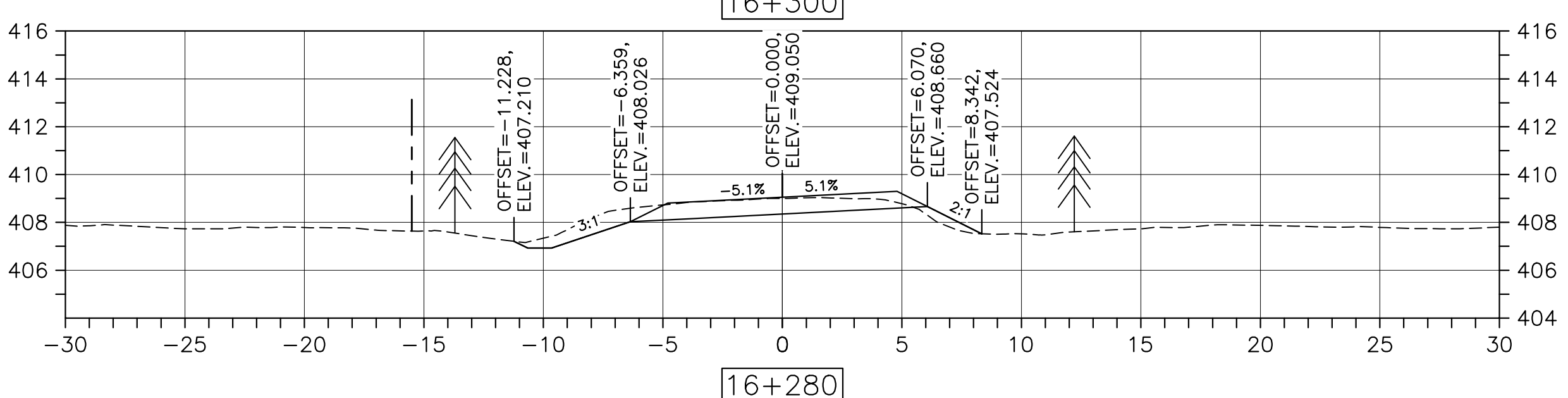
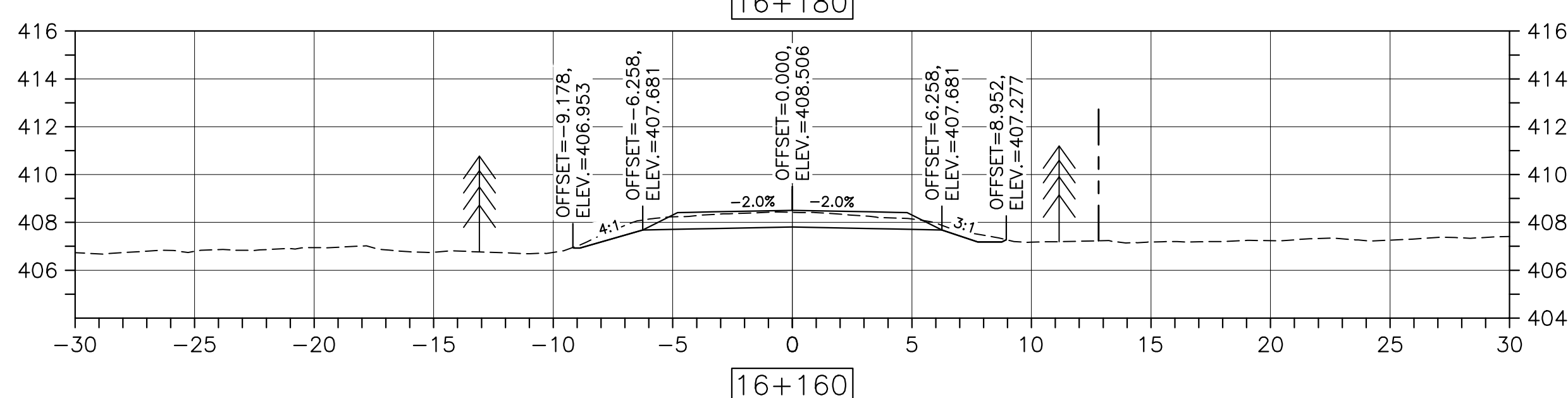
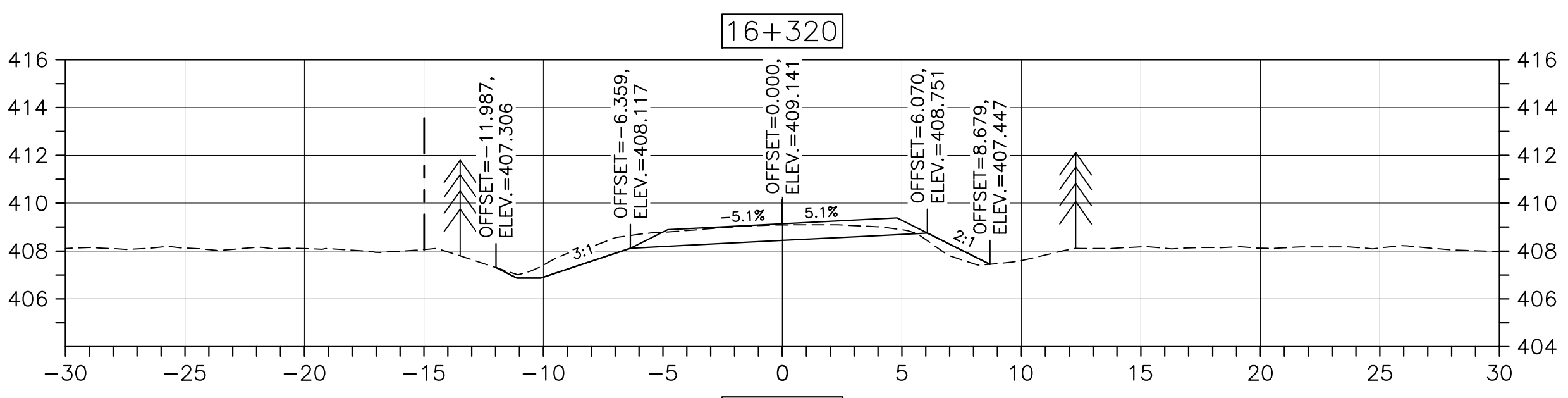
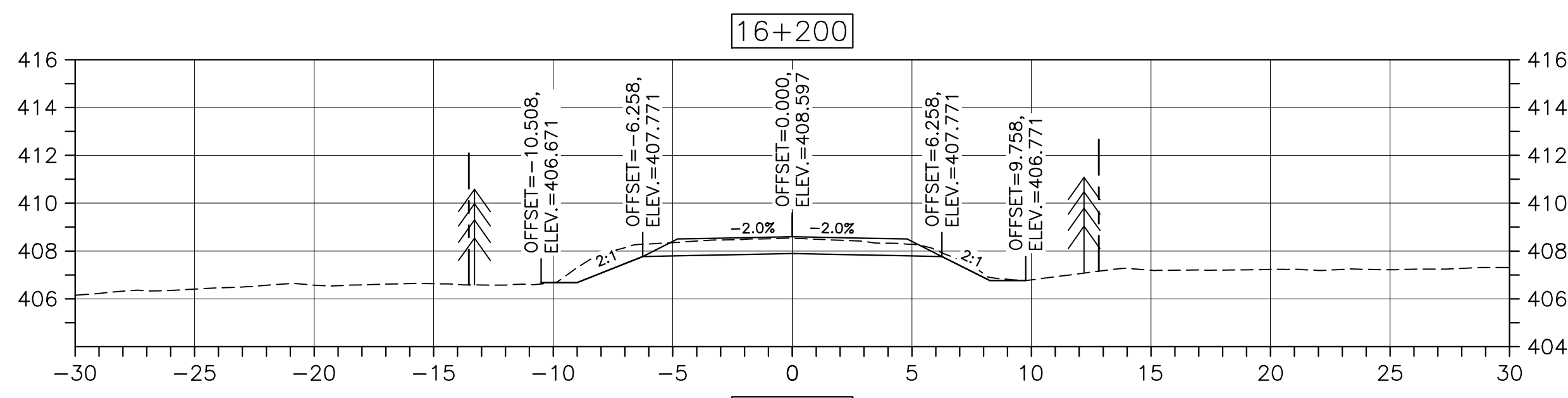
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designed DSC	conçu
date FEB. 20, 2017	
drawn JLD	dessiné
date FEB. 20, 2017	
approved RMB	approuvé
date FEB. 20, 2017	
Tender <i>[Signature]</i>	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

1114

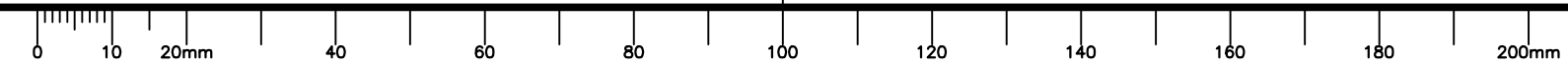
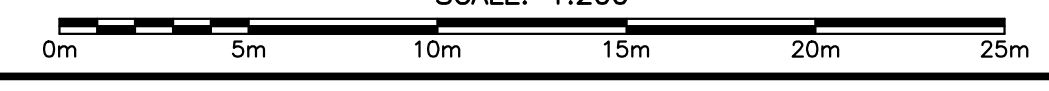
drawing no. no. du dessin

C-42



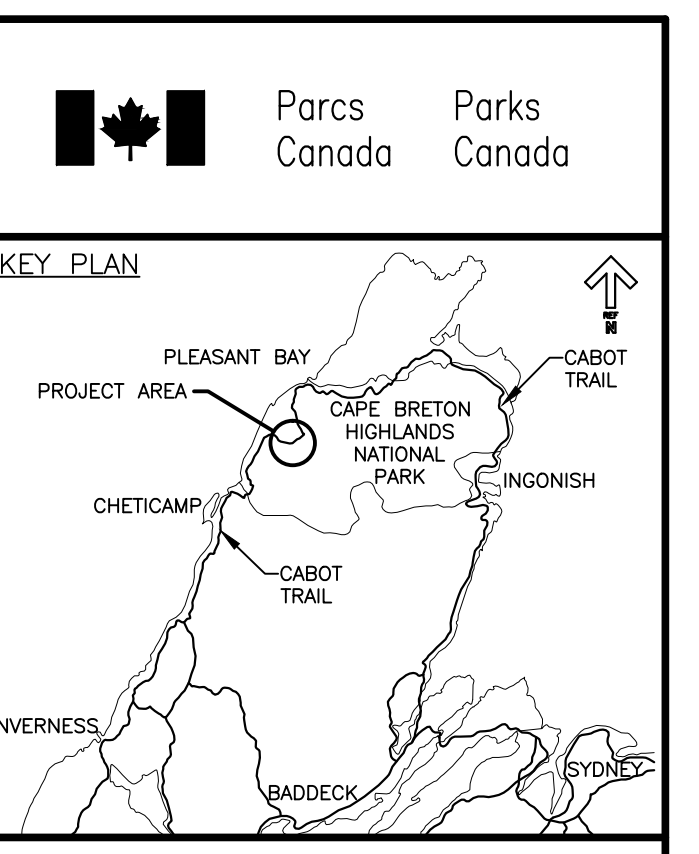
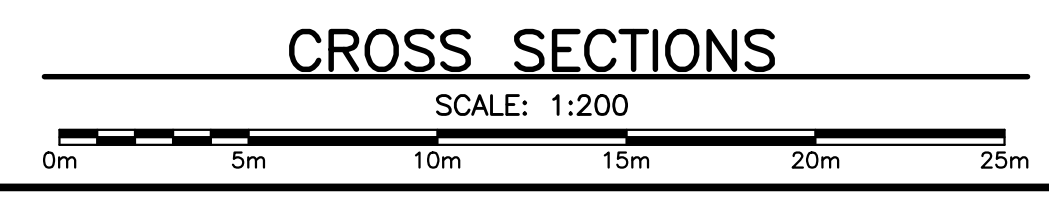
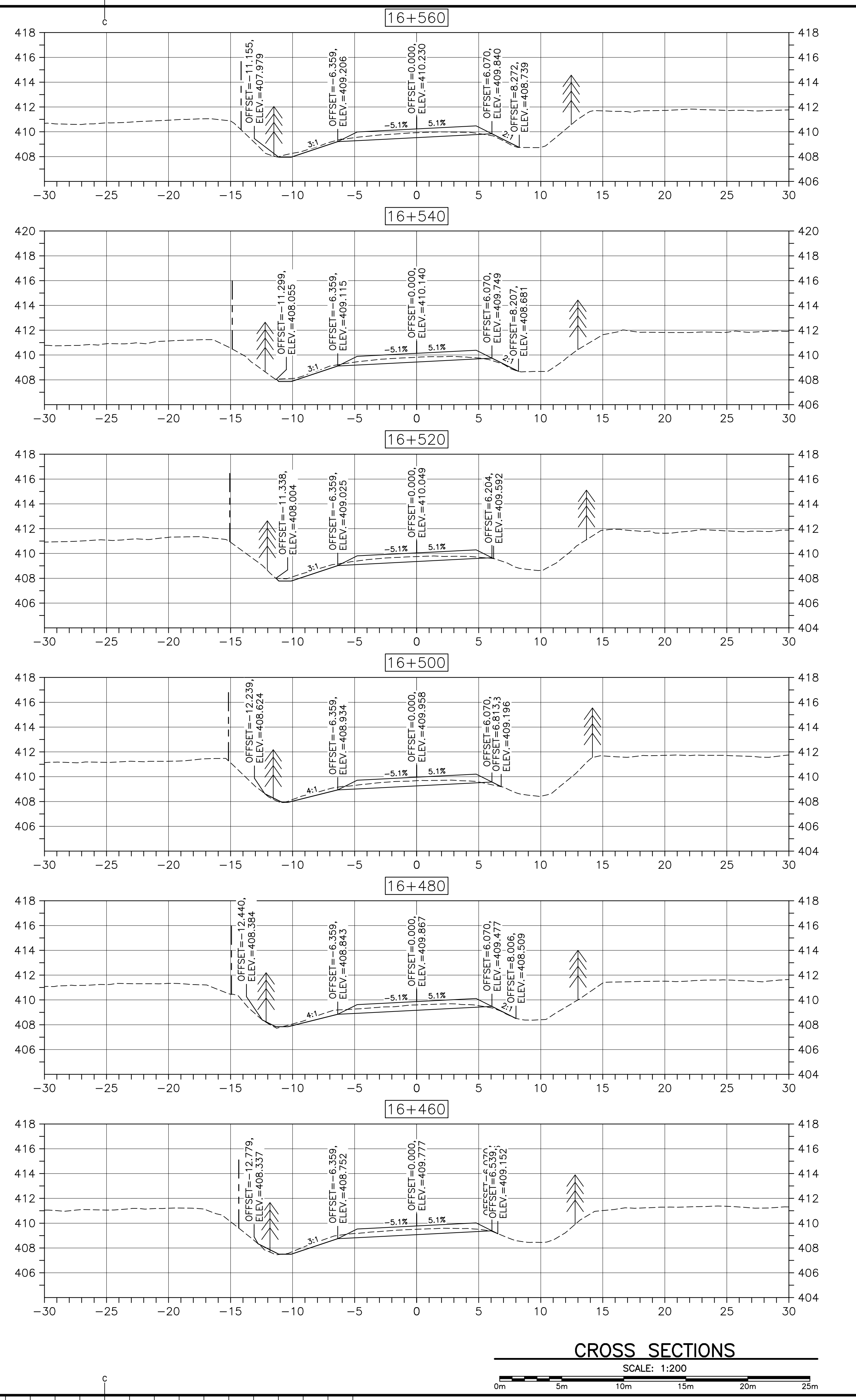
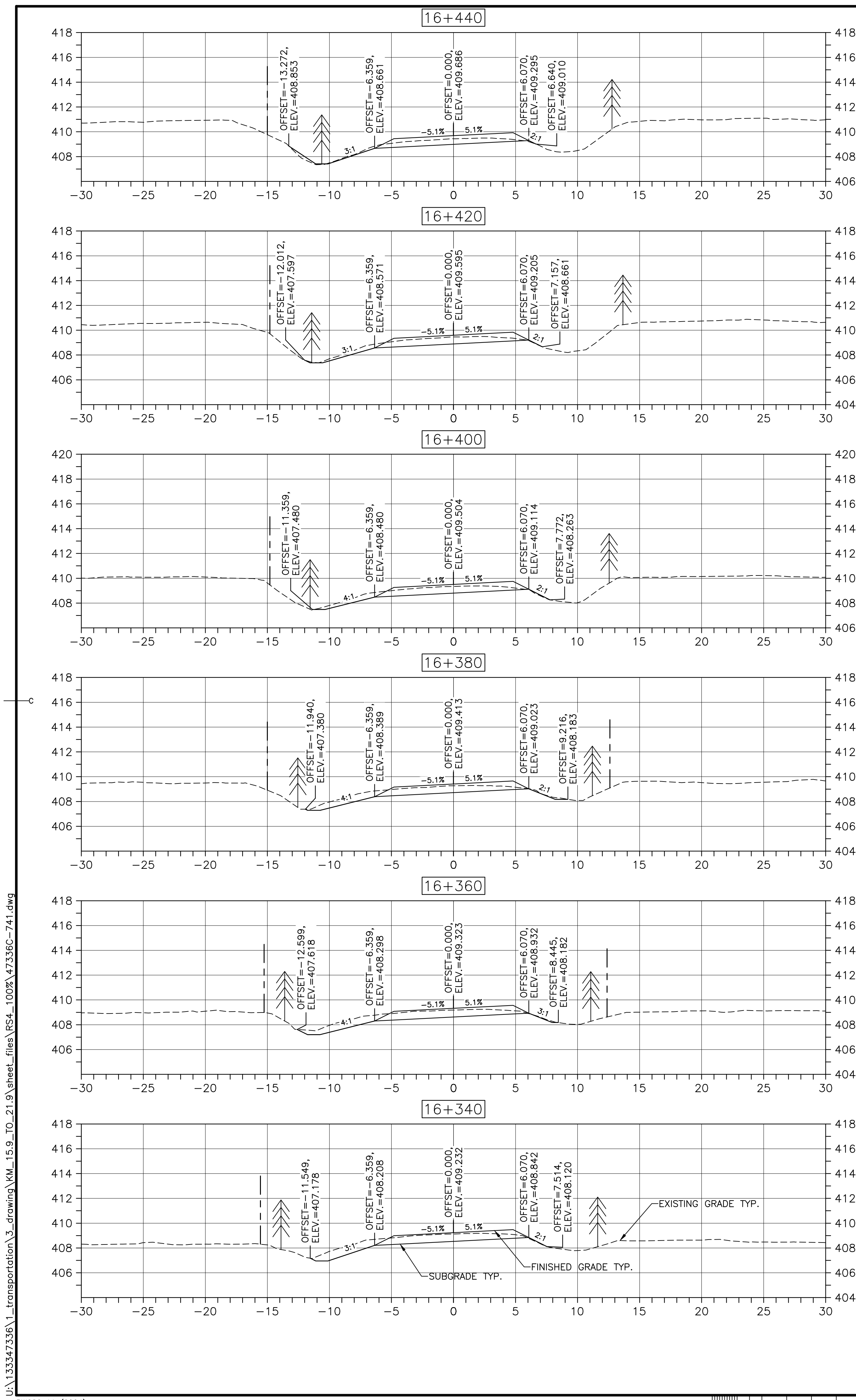
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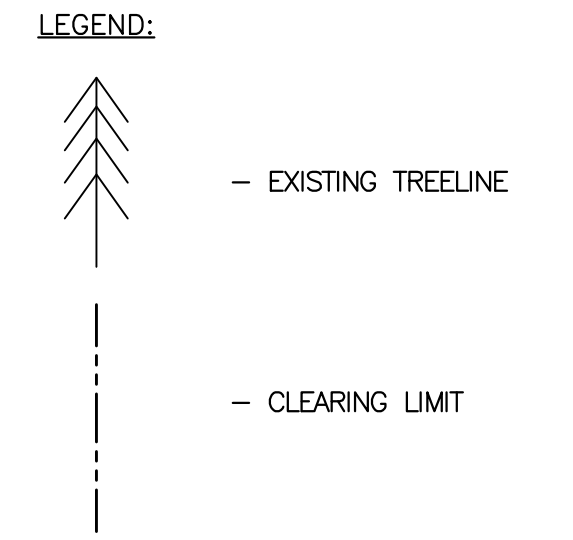
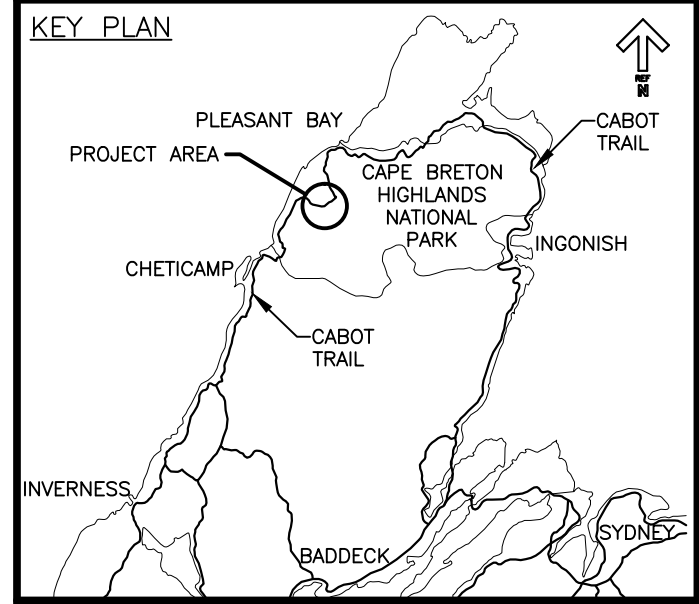


LEGEND:

- EXISTING TREELINE
- CLEARING LIMIT

0	ISSUED FOR TENDER	FEB. 20 2017
revisions		date
project	project	
CABOT TRAIL REHABILITATION FRENCH TO MACKENZIE KM 15.9 TO 21.9 CAPE BRETON HIGHLANDS NATIONAL PARK		
drawing	dessin	

DESIGN SECTIONS		
designed	DSC	conçu
date	FEB. 20, 2017	
drawn	JLD	dessiné
date	FEB. 20, 2017	
approved	RMB	approuvé
date	FEB. 20, 2017	
Tender	Soumission	
PCA Project Manager	FEB. 20, 2017	
project number	Administrateur de projets PCA	
	1114	
drawing no.	no. du projet	
	C-43	



0	ISSUED FOR TENDER	FEB. 20 2017
revisions		date
project		proj

**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessin

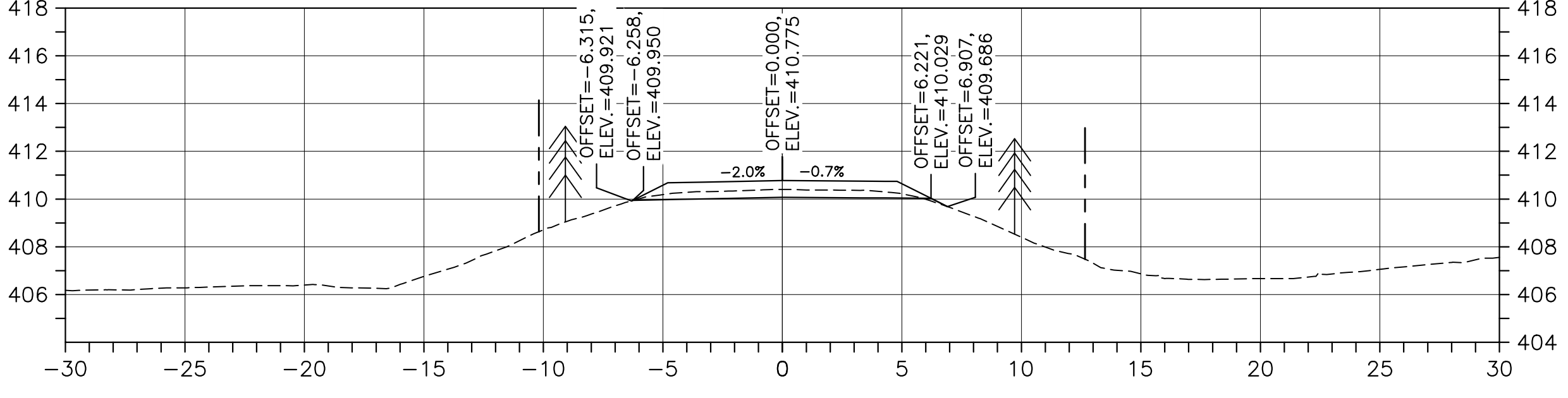
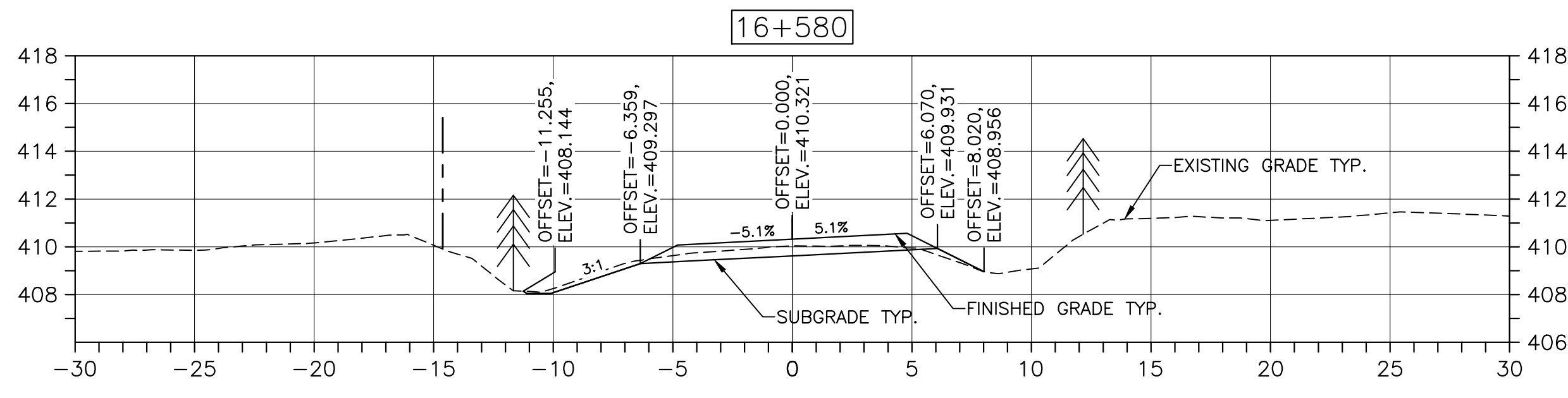
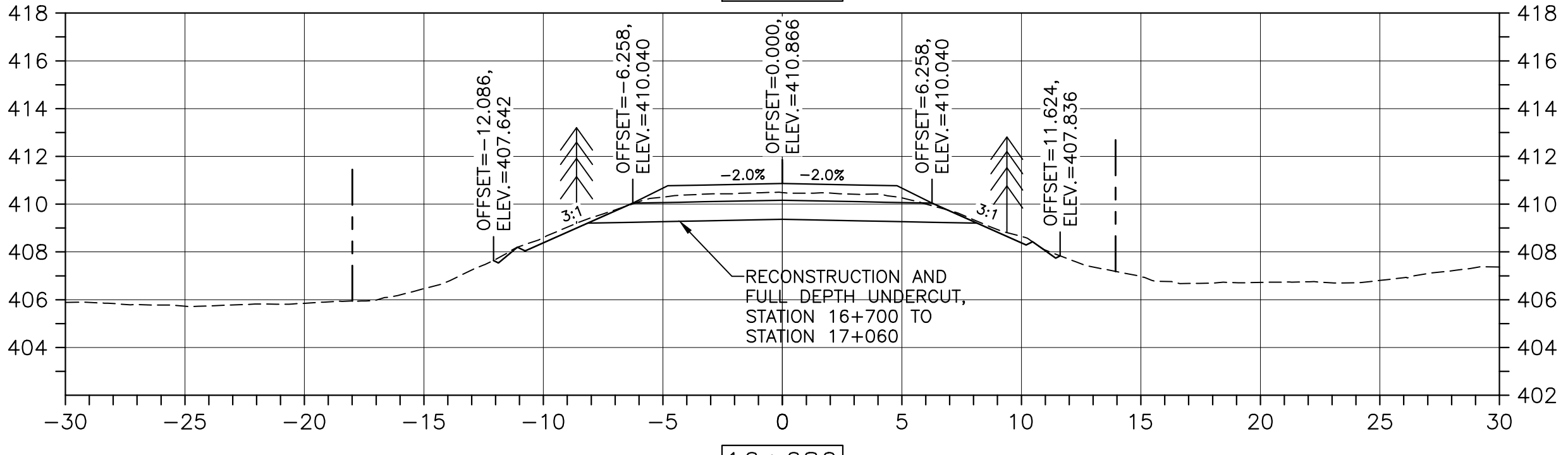
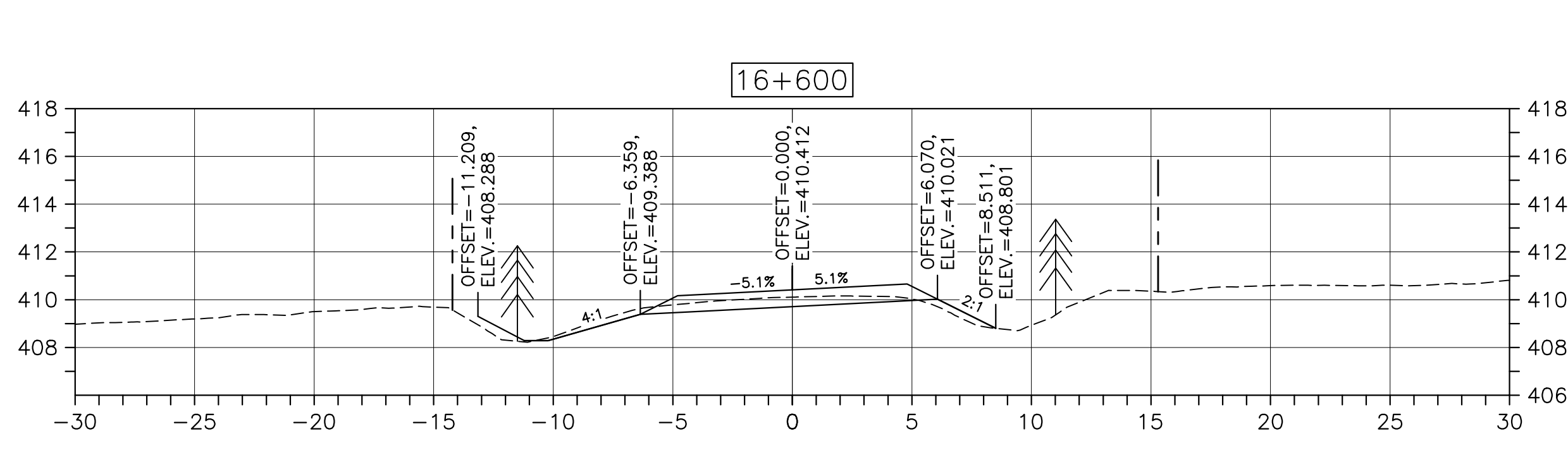
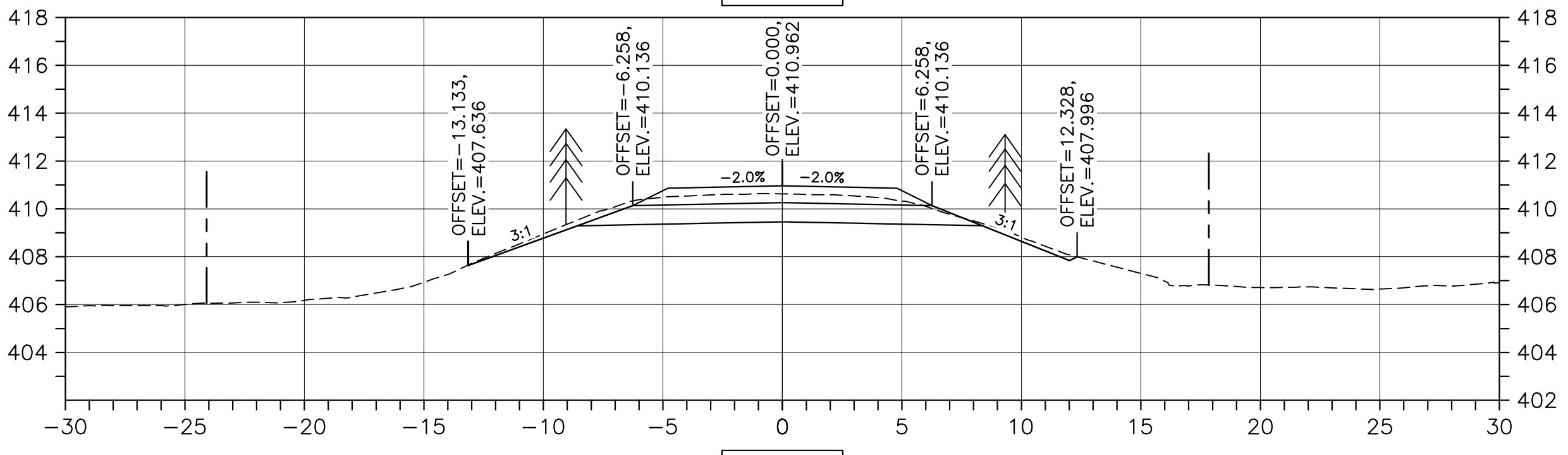
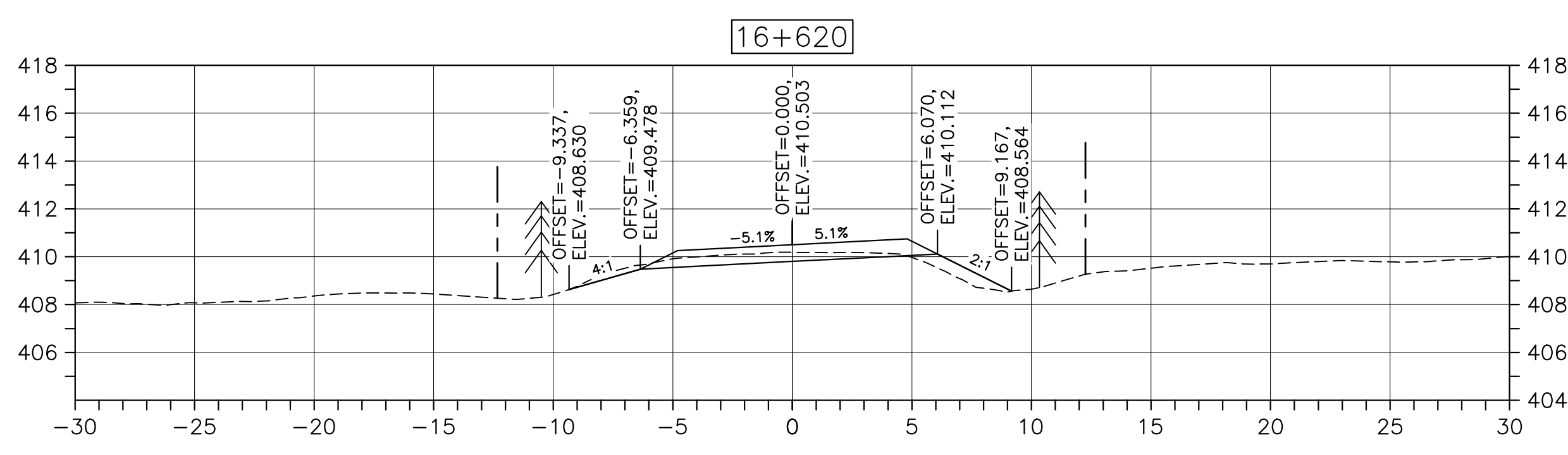
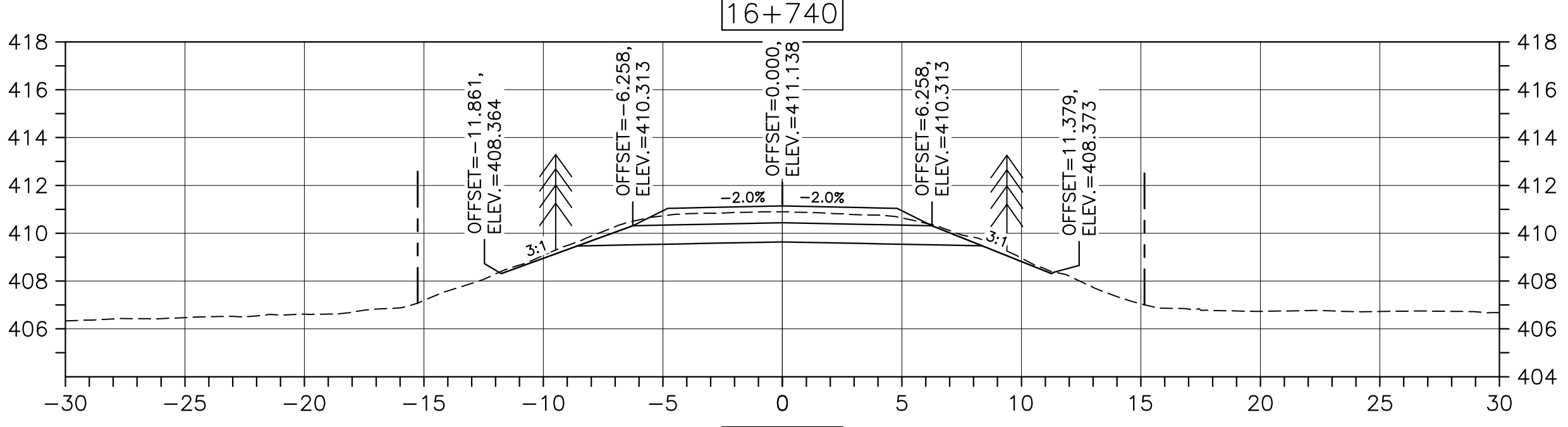
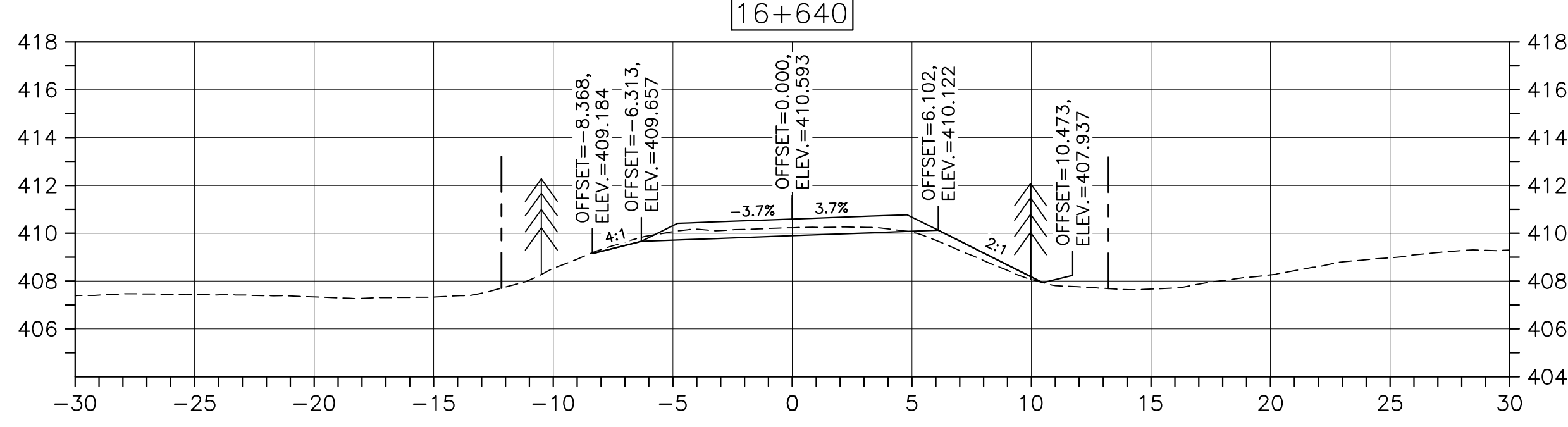
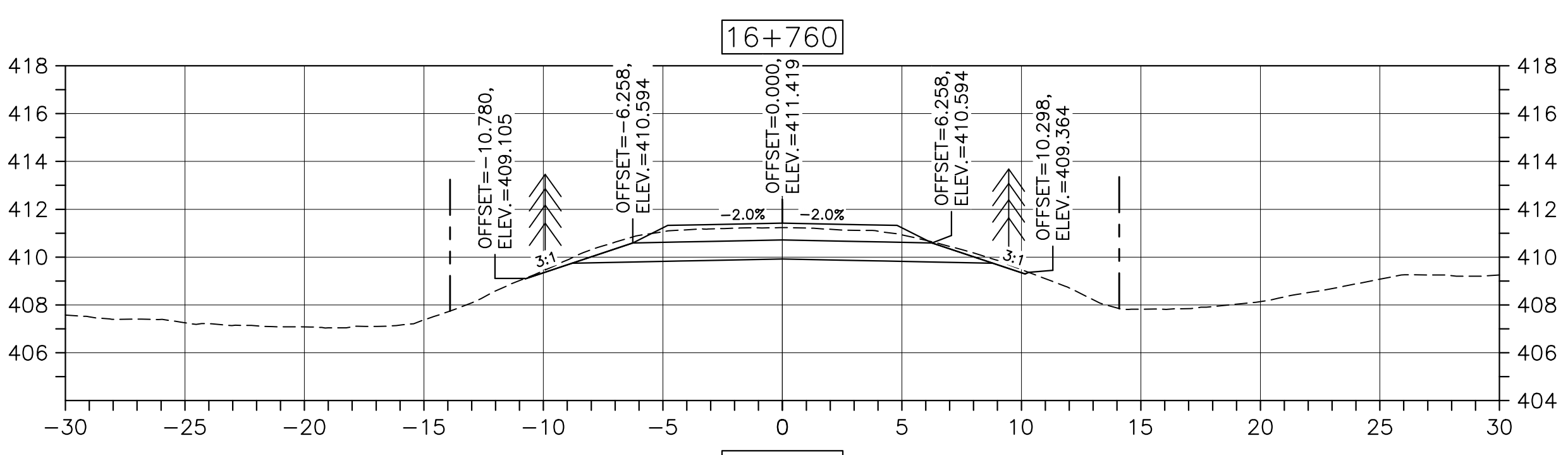
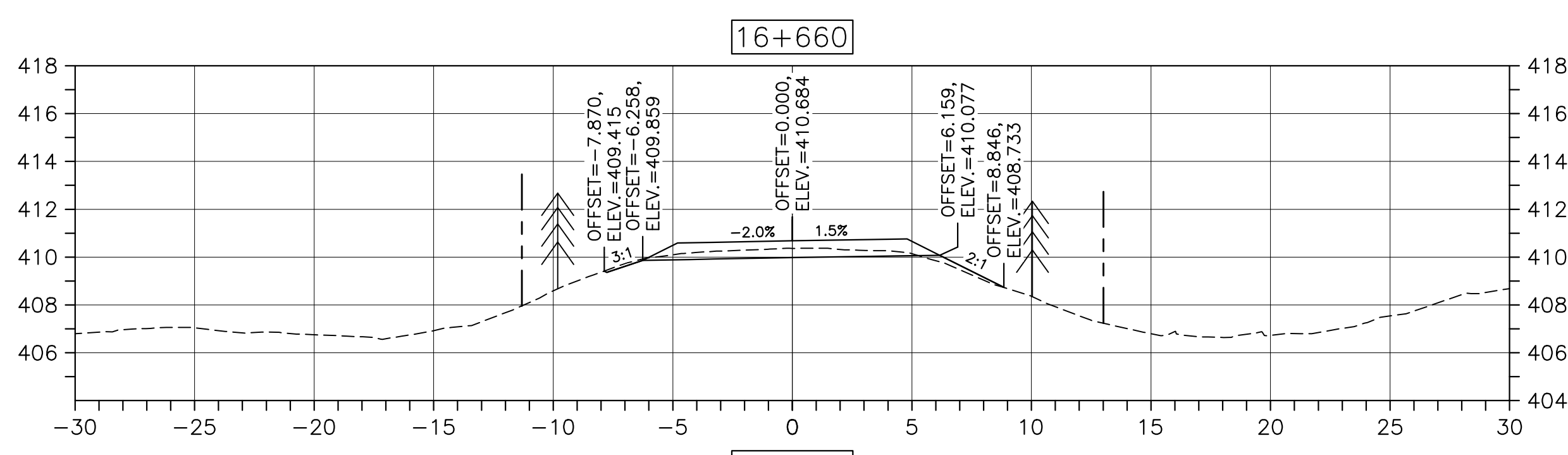
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designed	DSC	conçu
date	FEB. 20, 2017	
drawn	JLD	dessiné
date	FEB. 20, 2017	
approved	RMB	approuvé
date	FEB. 20, 2017	
Tender		Soumission
PCA Project Manager		Administrateur de projets PCA
project number		no. du projet

1114

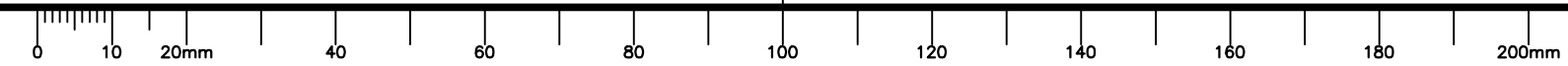
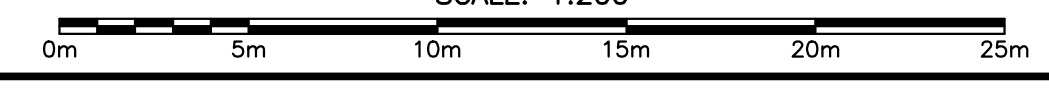
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C-44



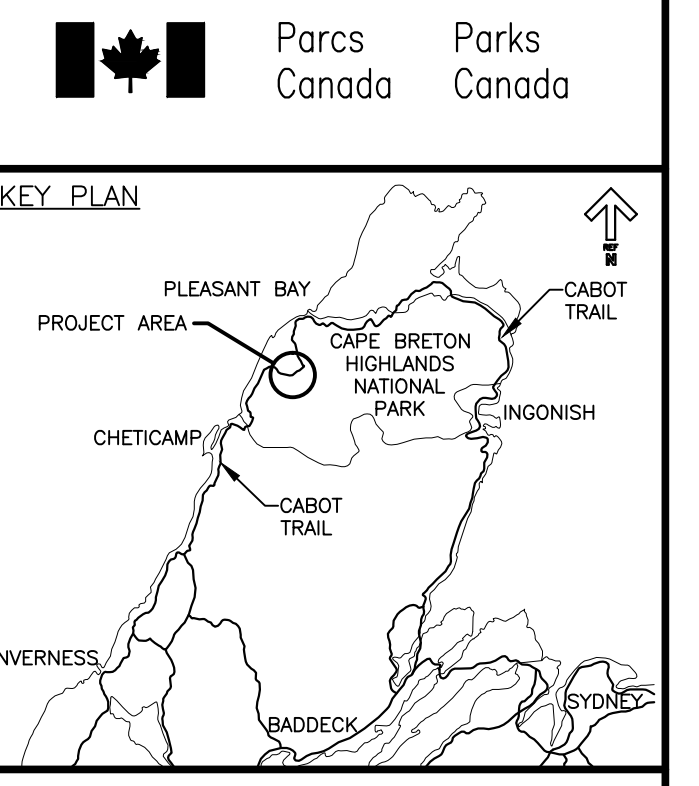
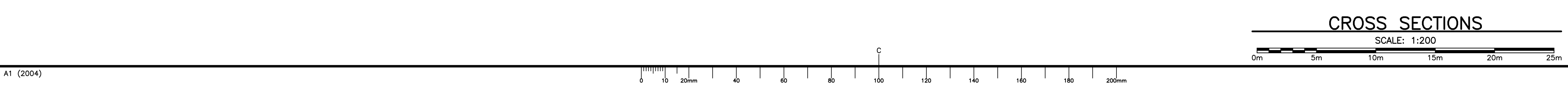
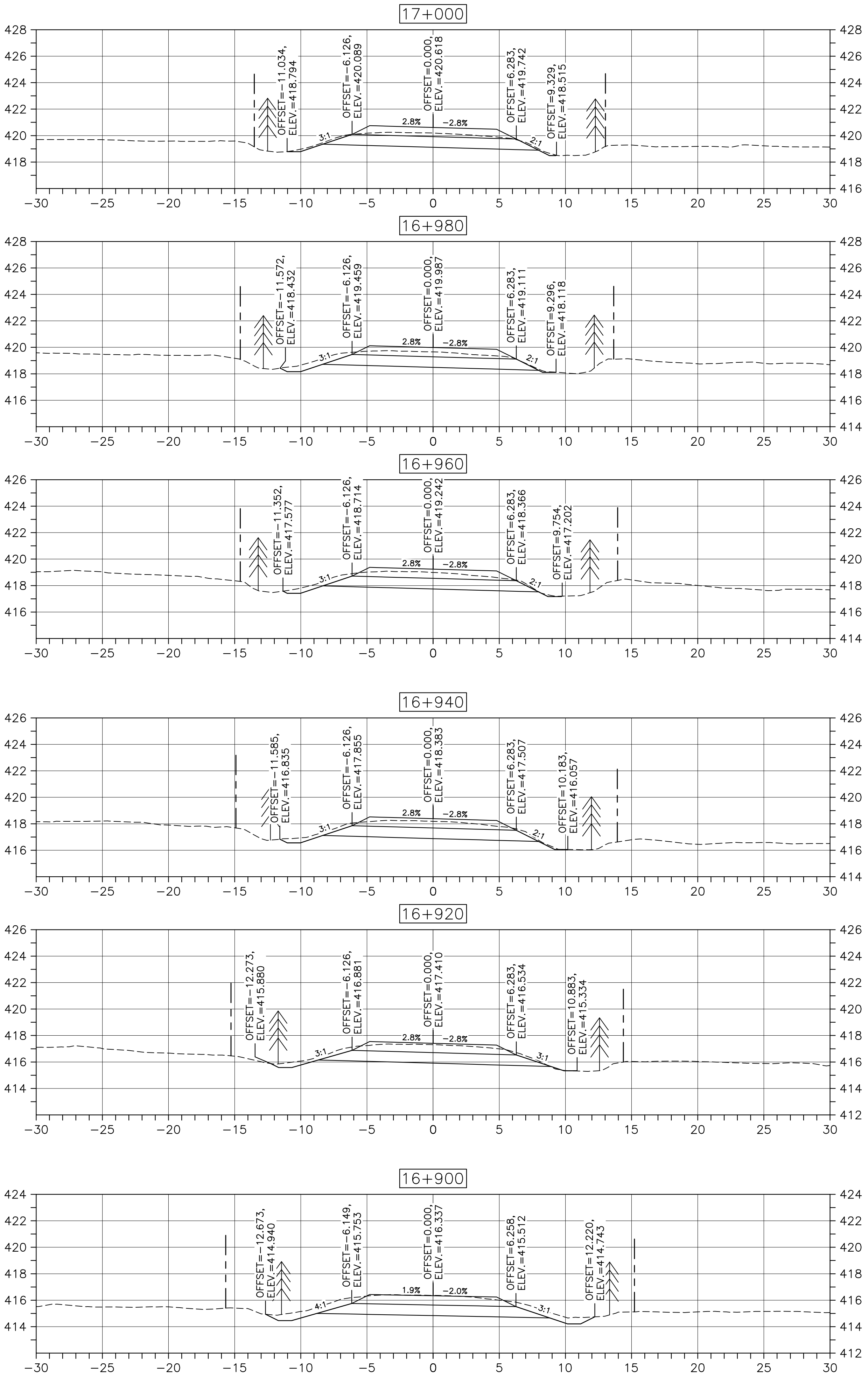
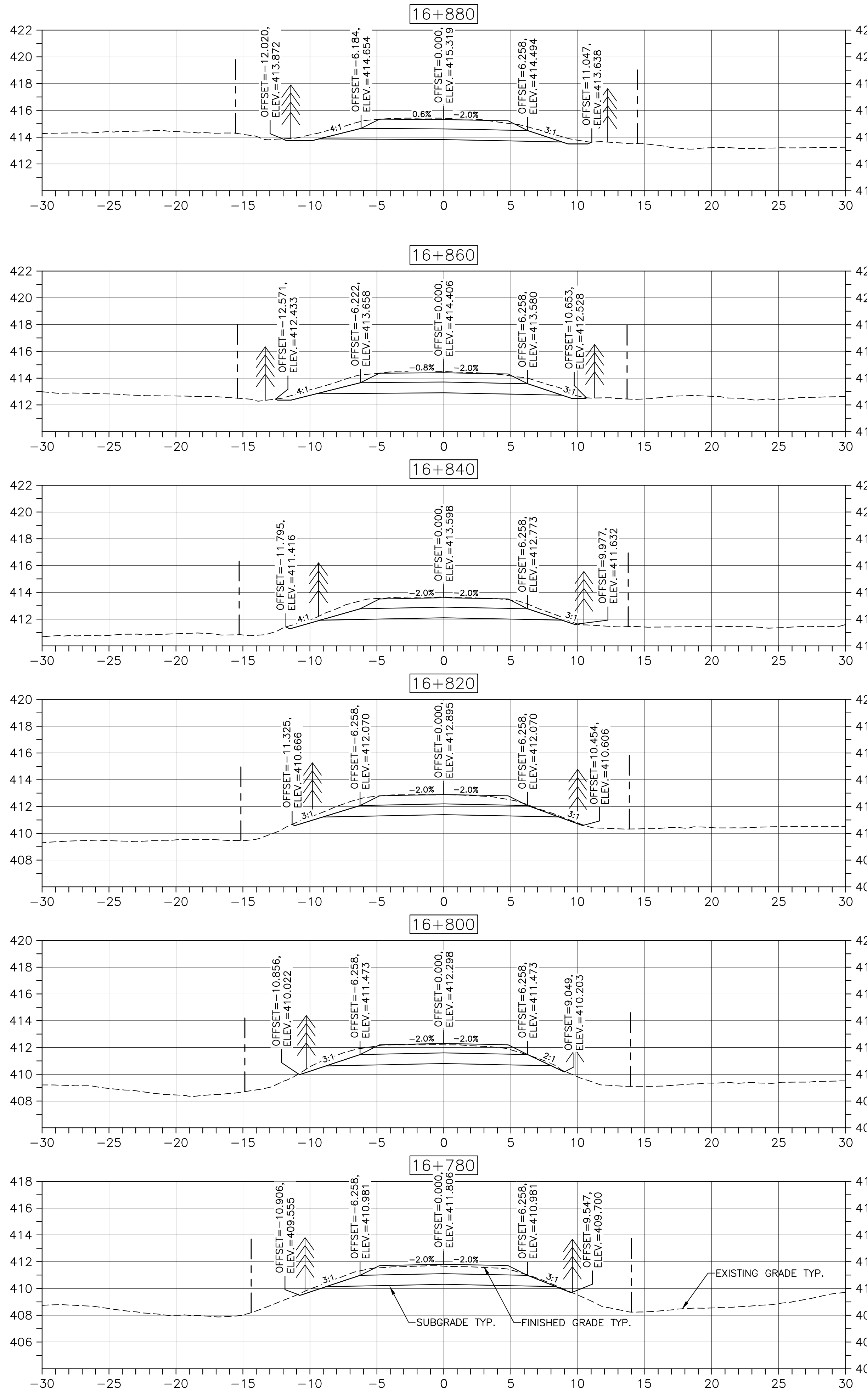
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LEGEND:

- EXISTING TREELINE
- CLEARING LIMIT

0 ISSUED FOR TENDER FEB. 20 2017

revisions date

project project

**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessin

DESIGN SECTIONS

designed DSC conçu

date FEB. 20, 2017

drawn JLD dessiné

date FEB. 20, 2017

approved RMB approuvé

date FEB. 20, 2017

Tender Soumission

PCA Project Manager Administrateur de projets PCA

project number no. du projet

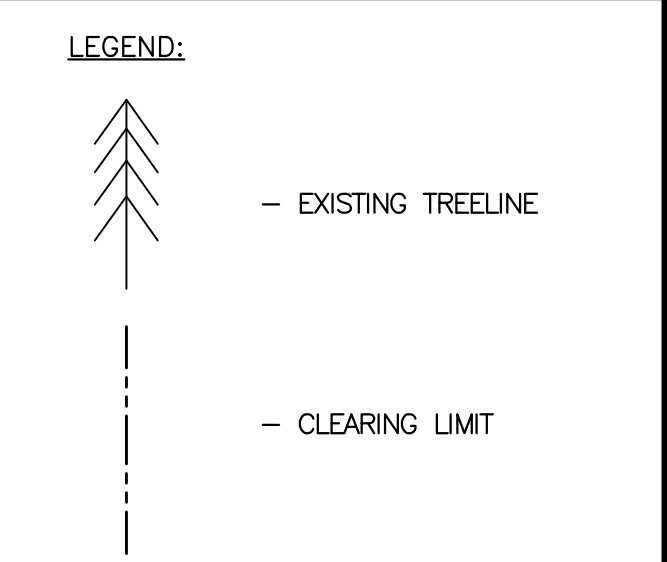
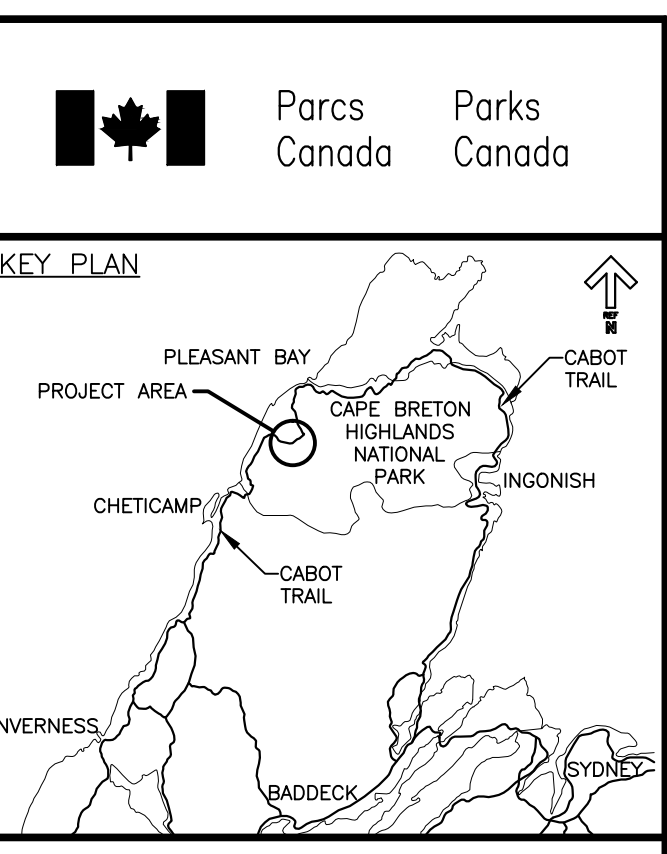
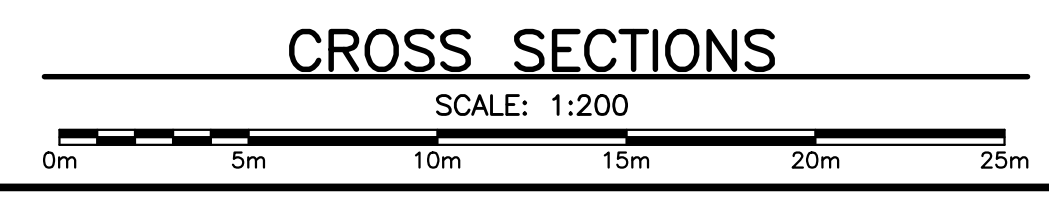
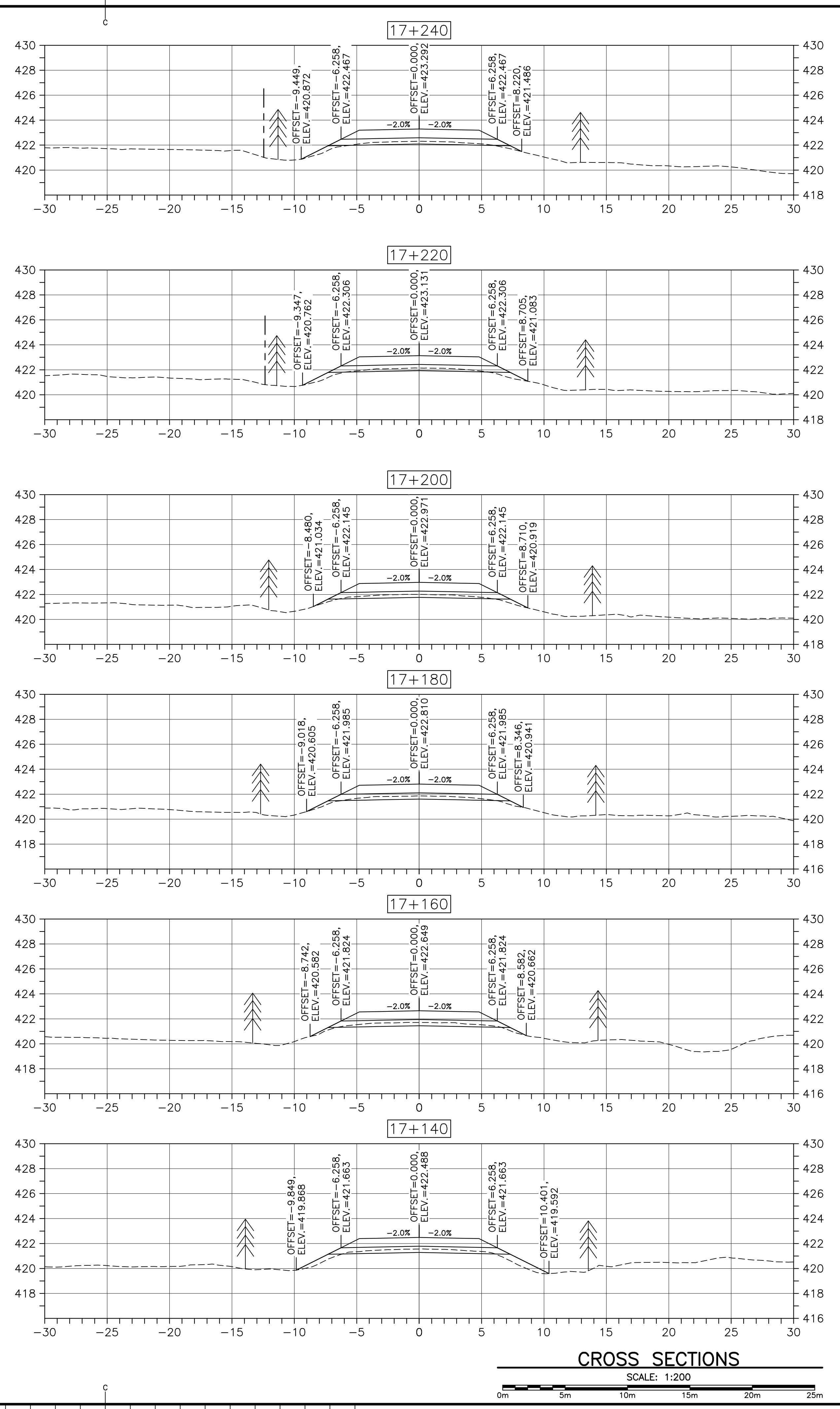
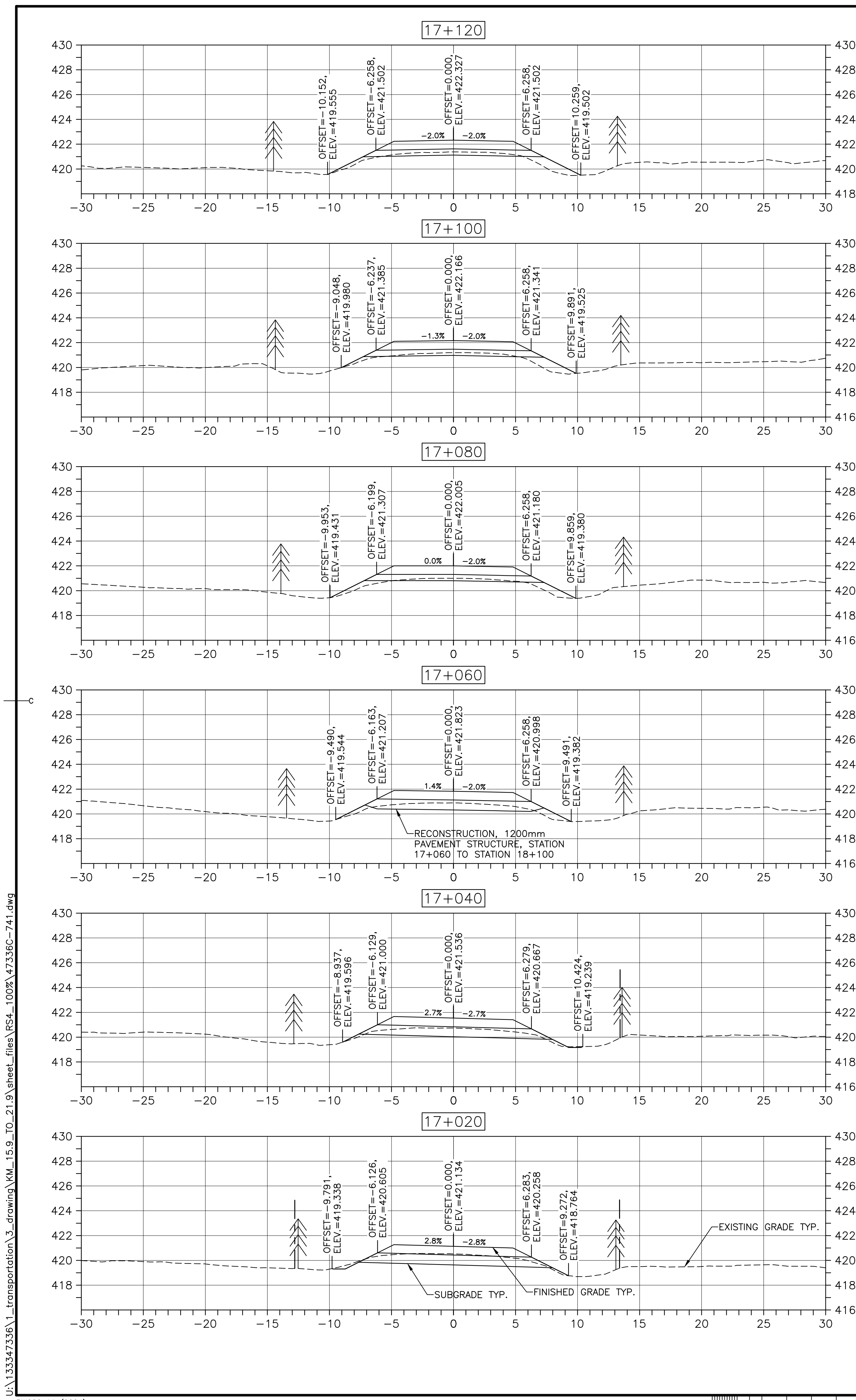
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drawing no. no. du dessin

C-45

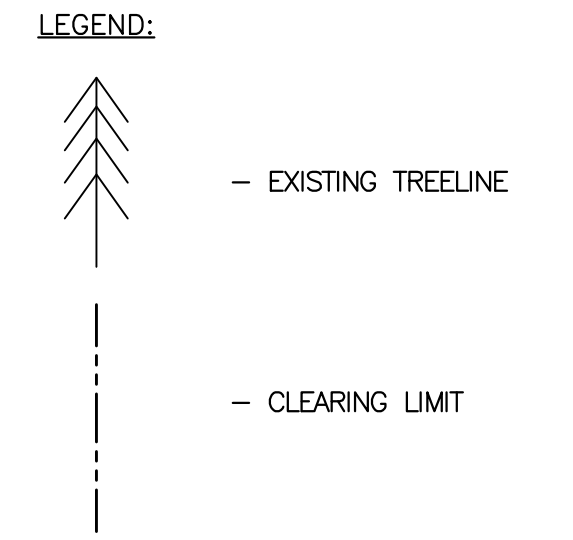
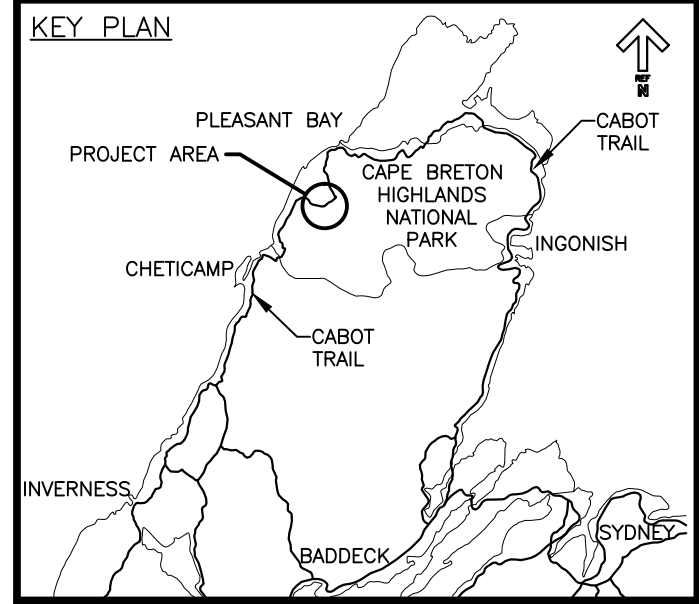
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DATE: FEB. 20, 2017
DRAWN BY: JLD
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APPROVED BY: RMB
DATE: FEB. 20, 2017
TENDER: [Signature]
PCA PROJECT MANAGER: [Signature]
PROJECT NUMBER: 1114
DRAWING NUMBER: C-45

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revisions		date
project		projct
CABOT TRAIL REHABILITATION FRENCH TO MACKENZIE KM 15.9 TO 21.9 CAPE BRETON HIGHLANDS NATIONAL PARK		
drawing		dessin

DESIGN SECTIONS		
designed	DSC	conçu
date	FEB. 20, 2017	
drawn	JLD	dessiné
date	FEB. 20, 2017	
approved	RMB	approuvé
date	FEB. 20, 2017	
Tender	<i>Stantec</i>	Soumission
PCA Project Manager		FEB. 20, 2017
Administrateur de projets		PCA
project number		no. du projet
1114		
drawing no.		no. du dessin
C-46		



0	ISSUED FOR TENDER	FEB. 20 2017
revisions		date

project CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK

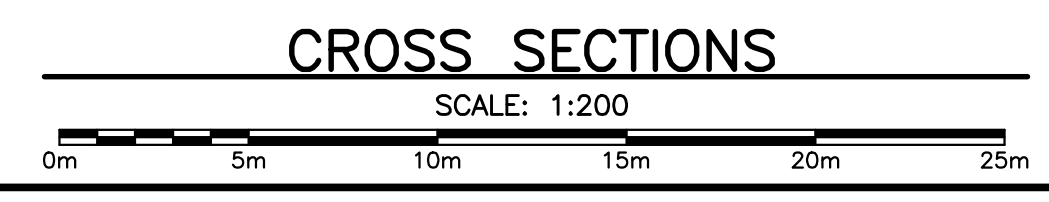
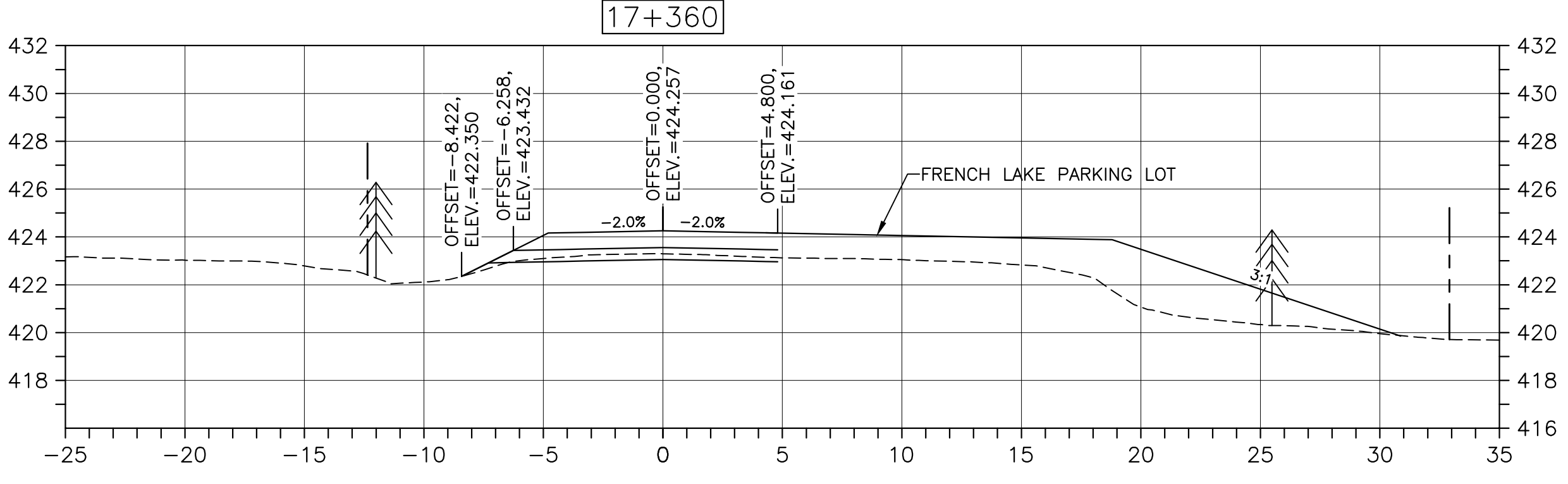
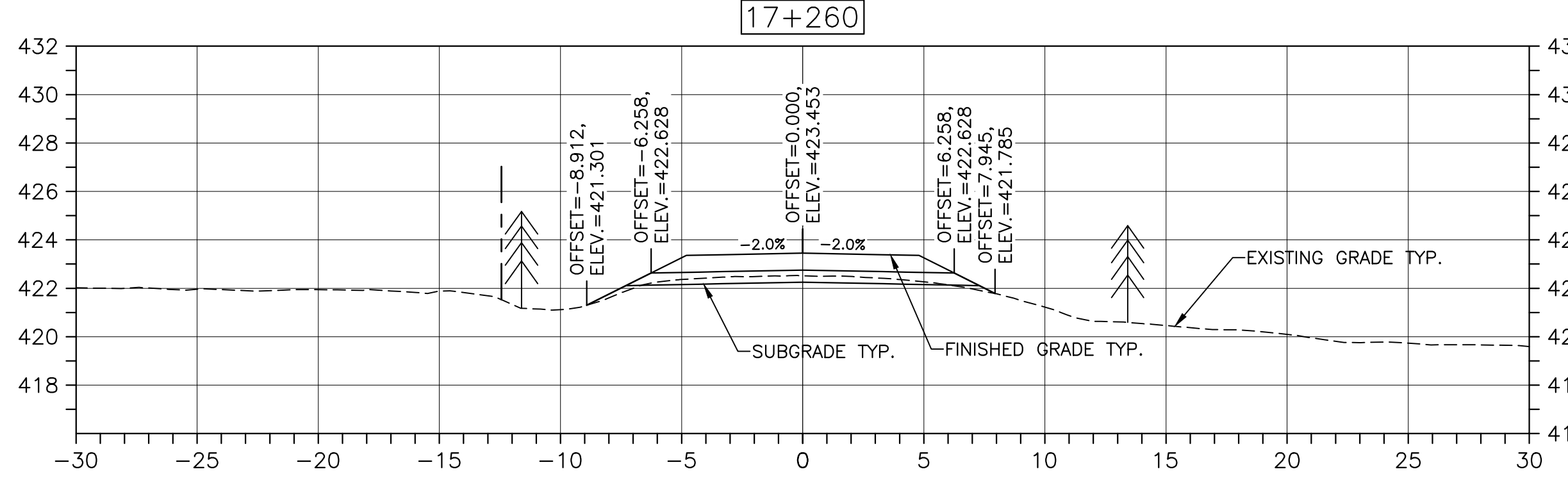
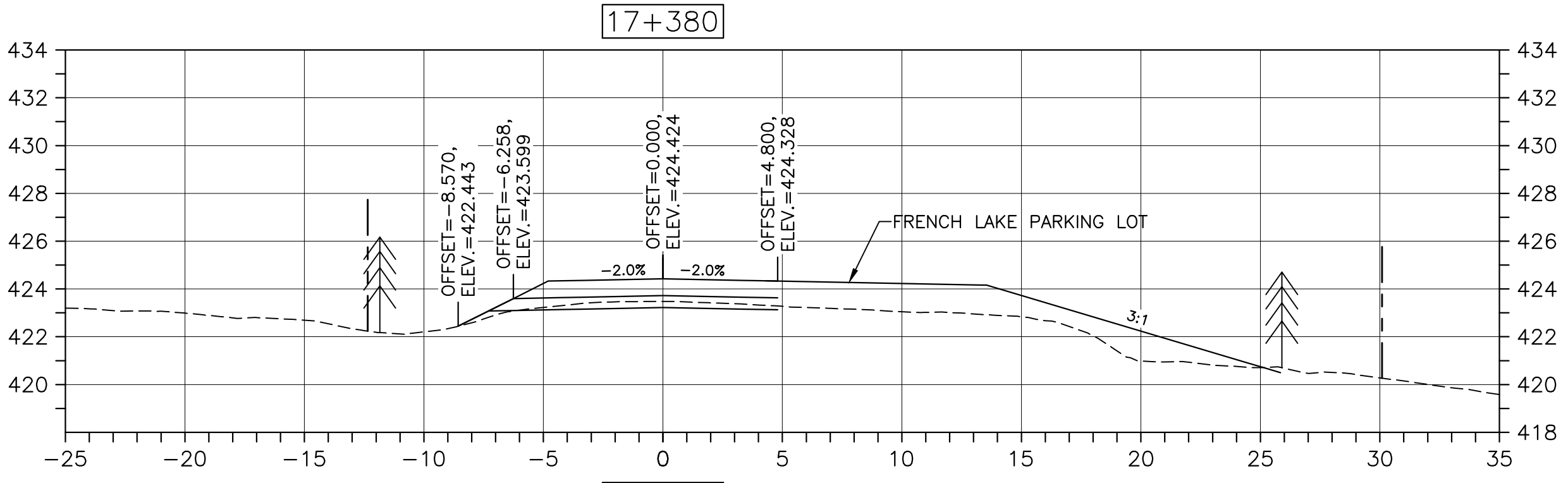
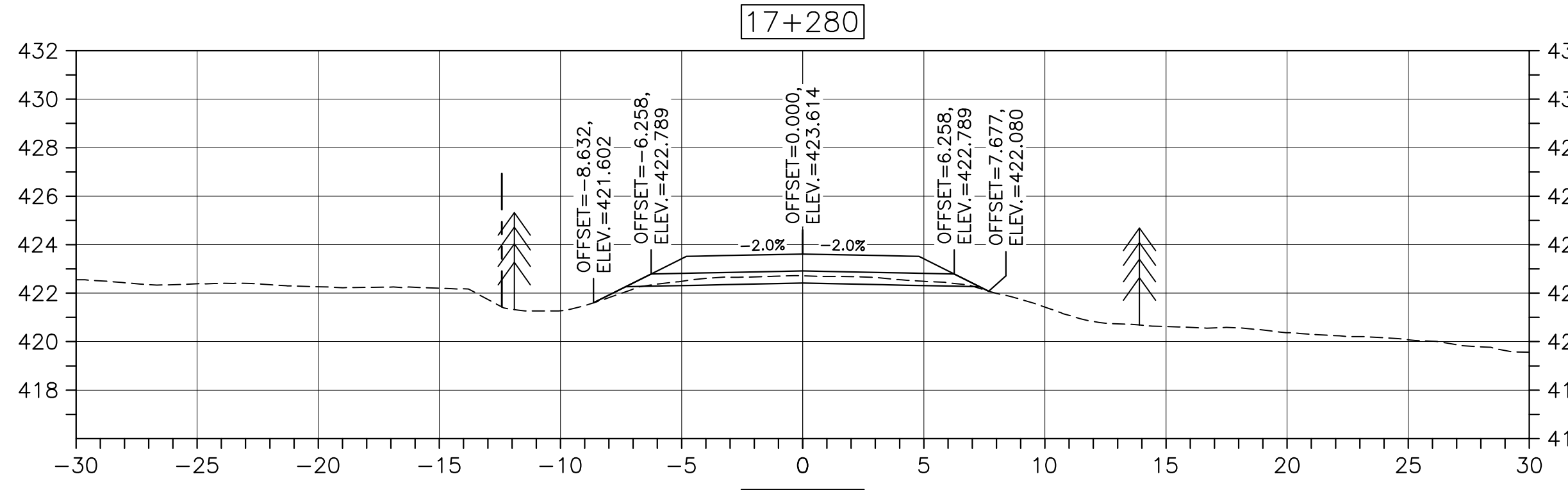
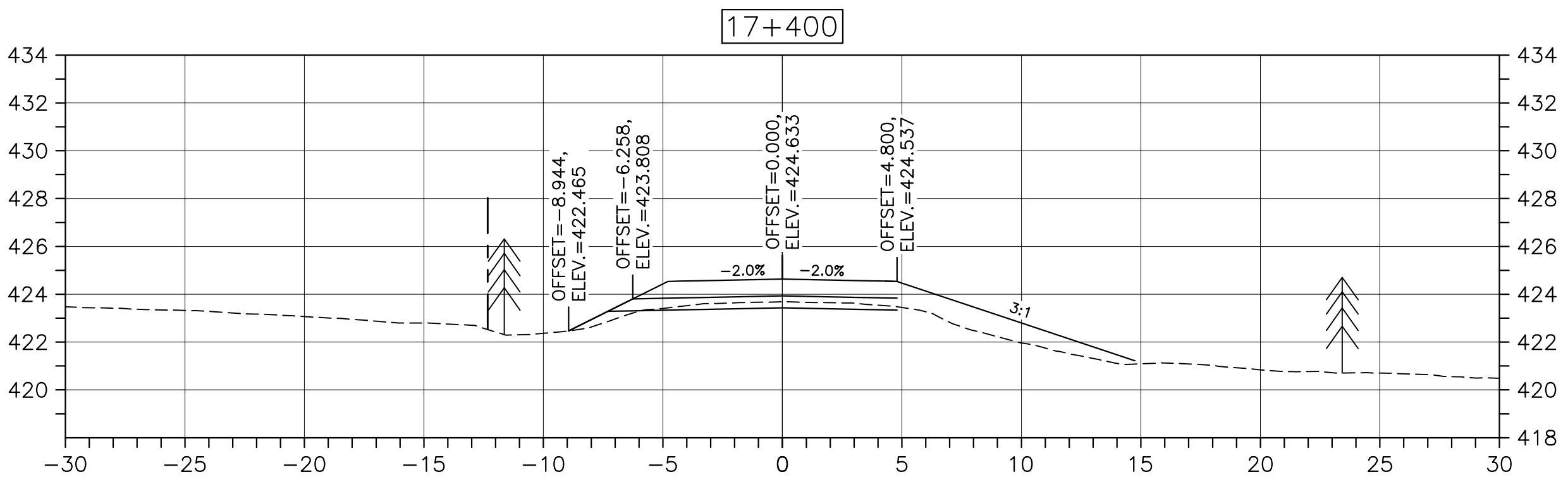
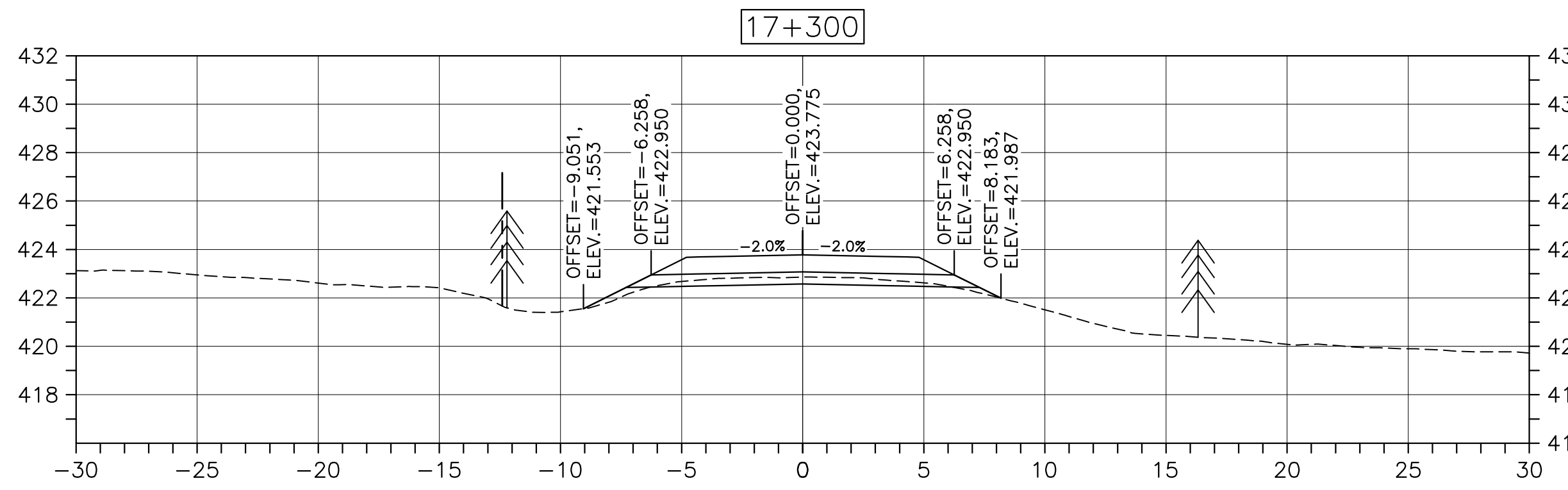
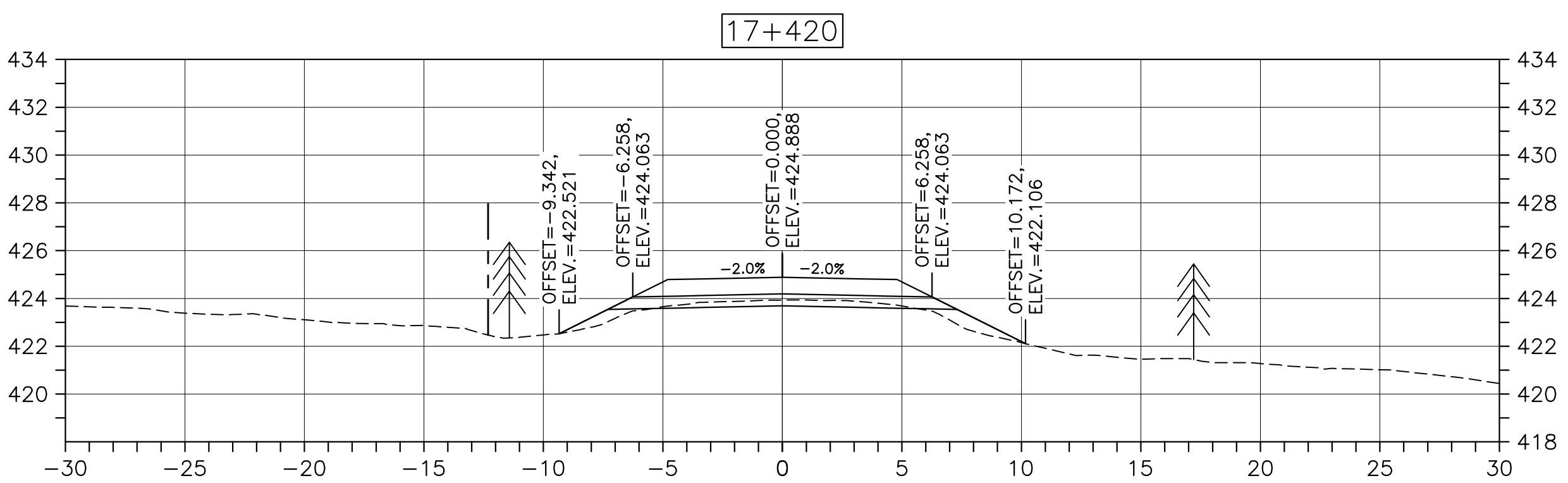
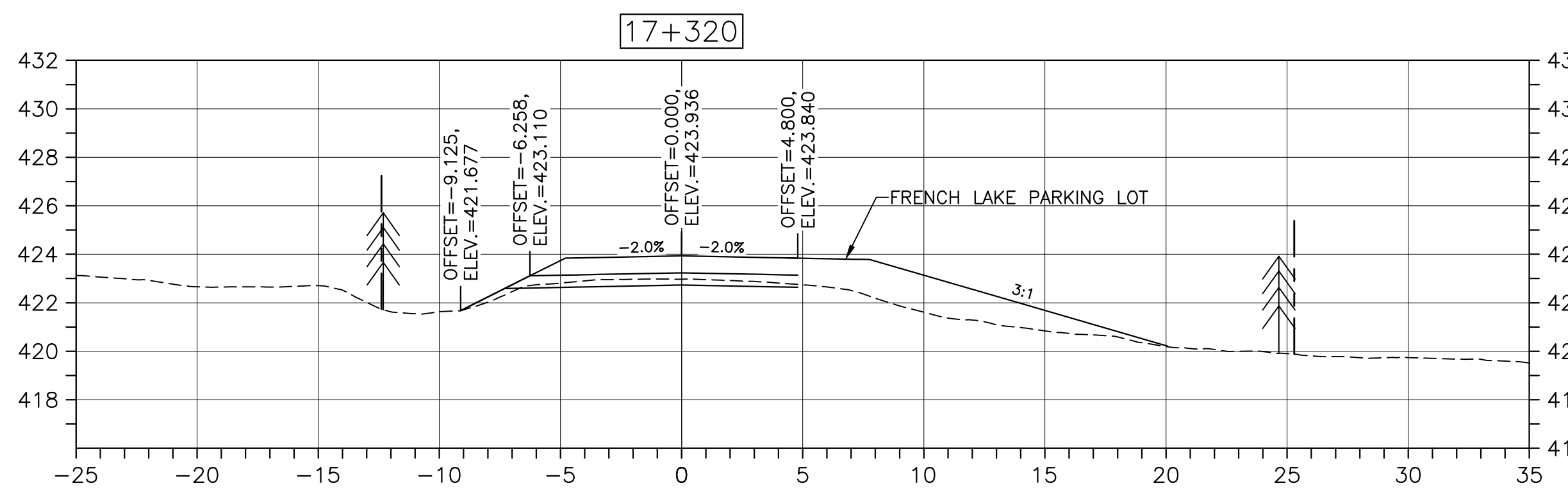
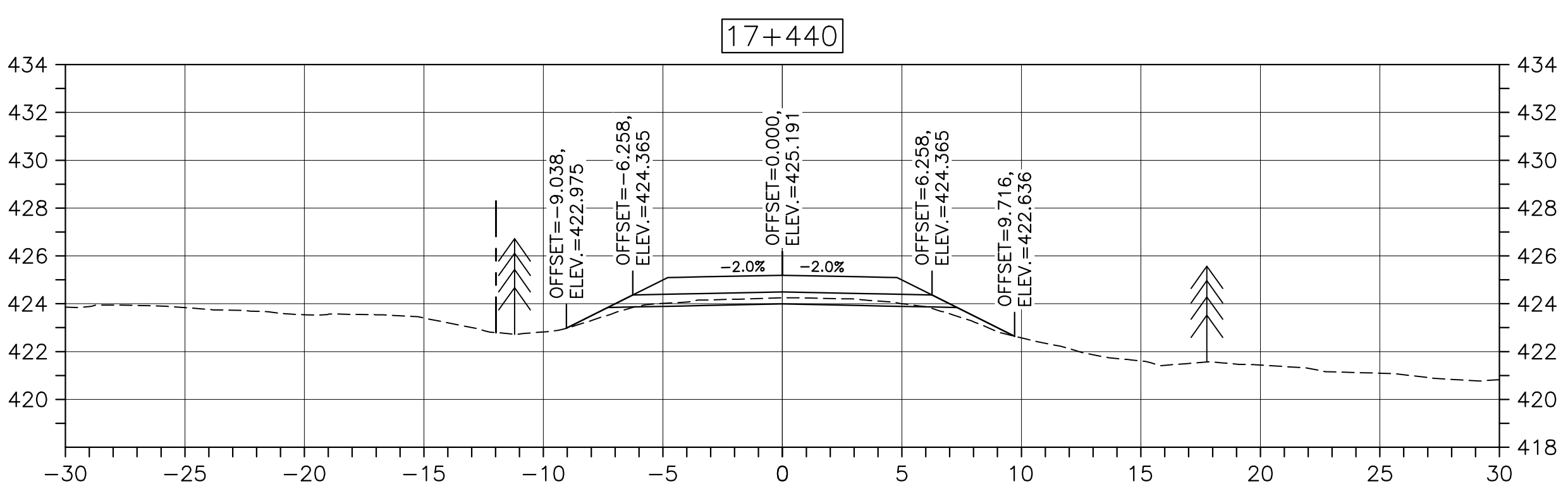
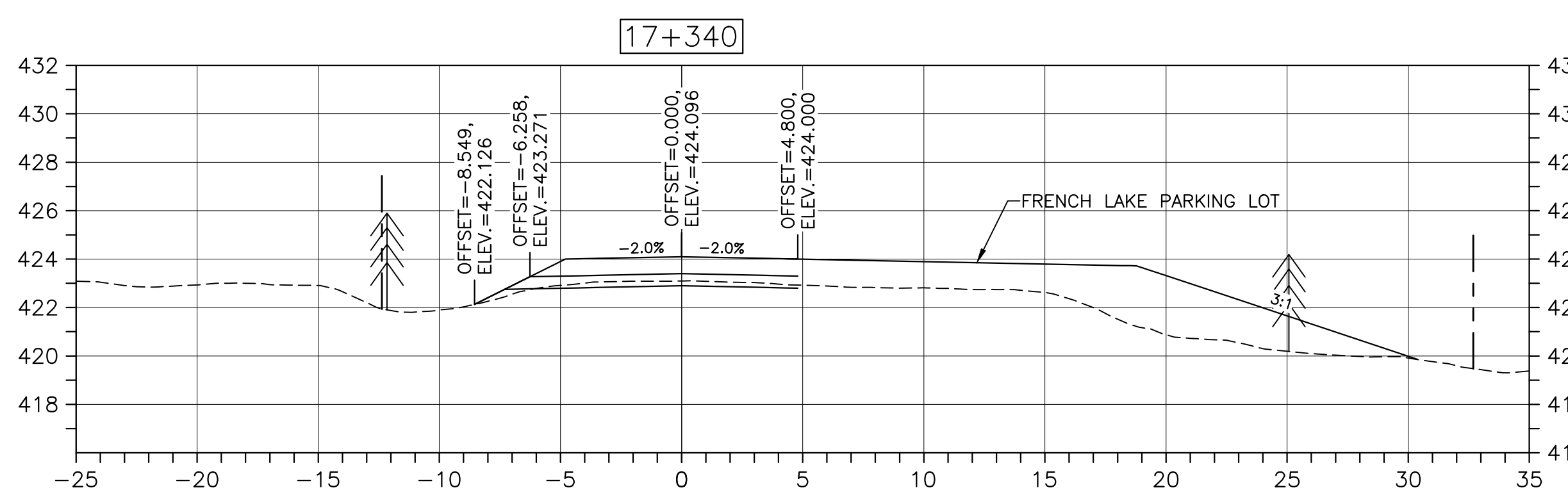
DESIGN SECTIONS

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date FEB. 20, 2017	
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Tender <i>[Signature]</i>	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

1114

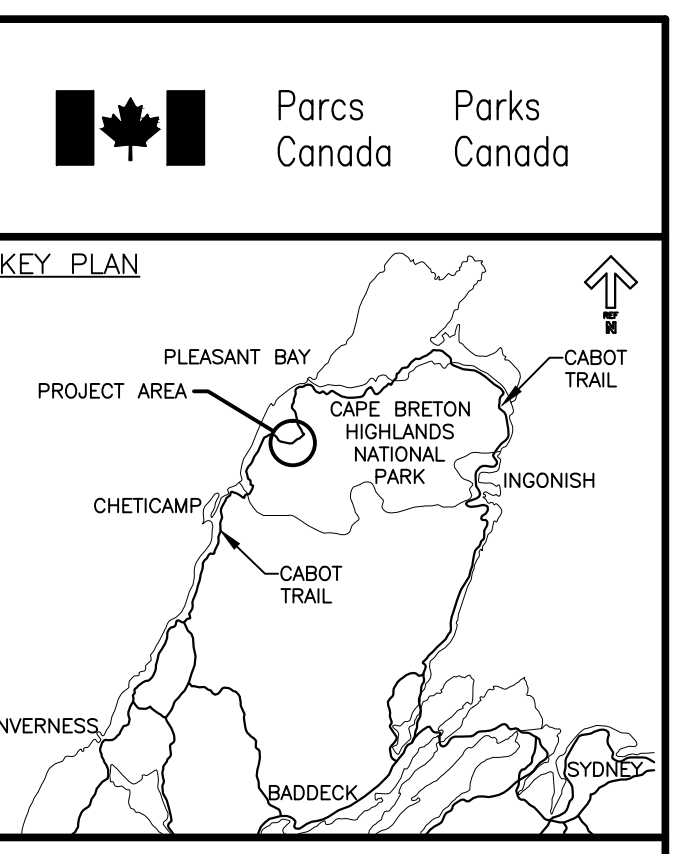
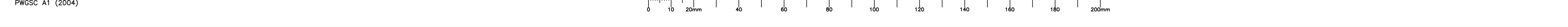
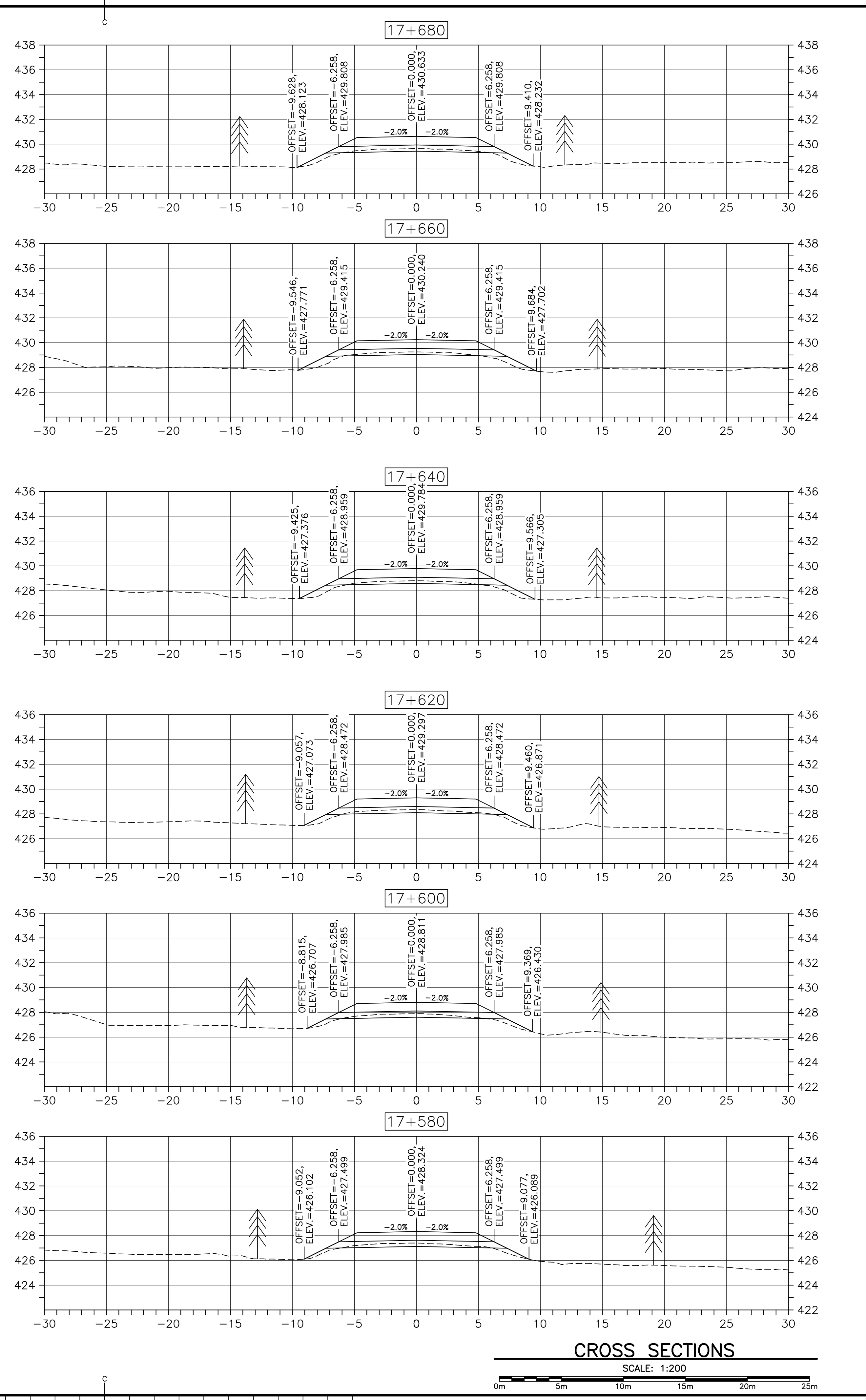
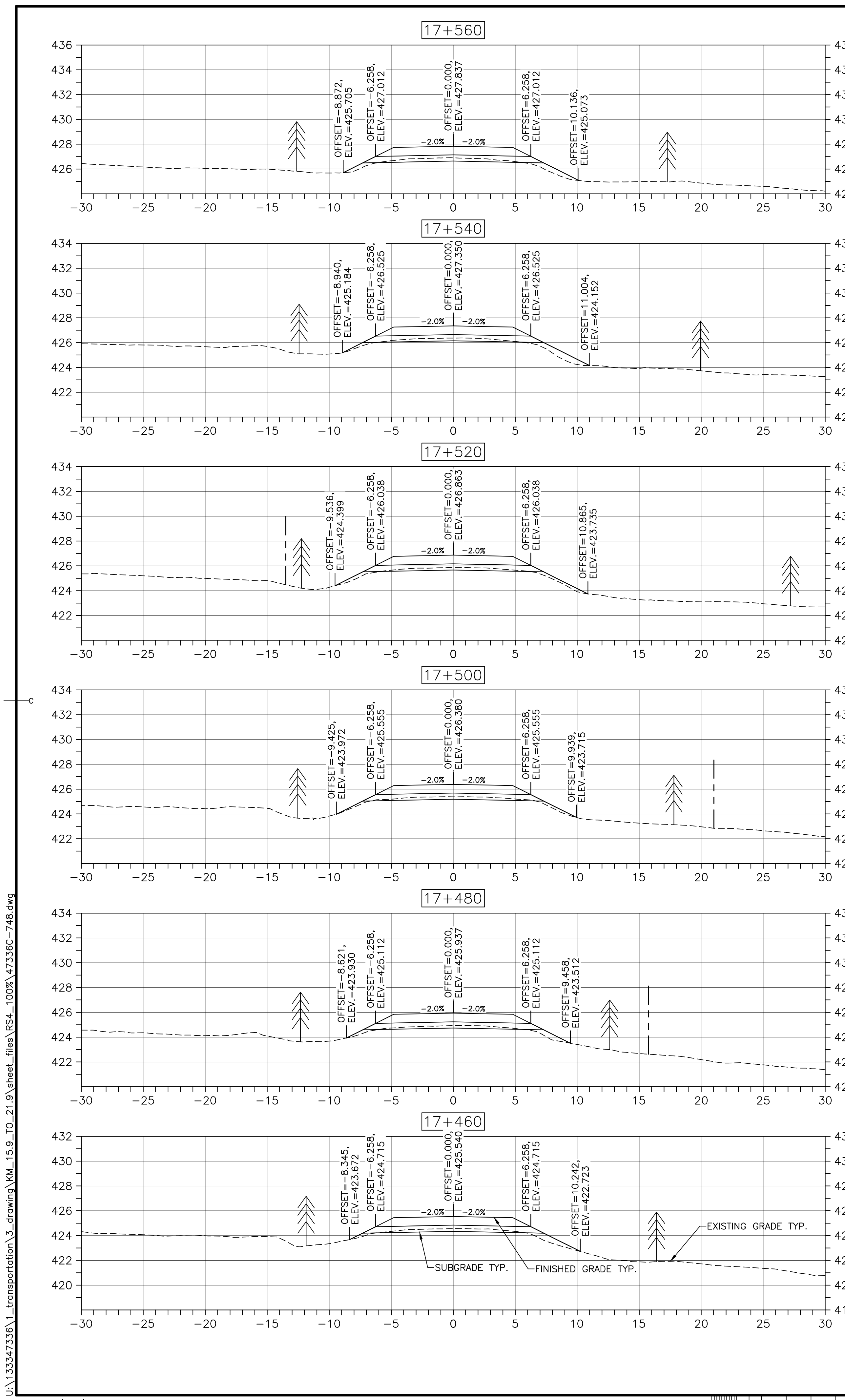
C-47

drawing no. no. du dessin



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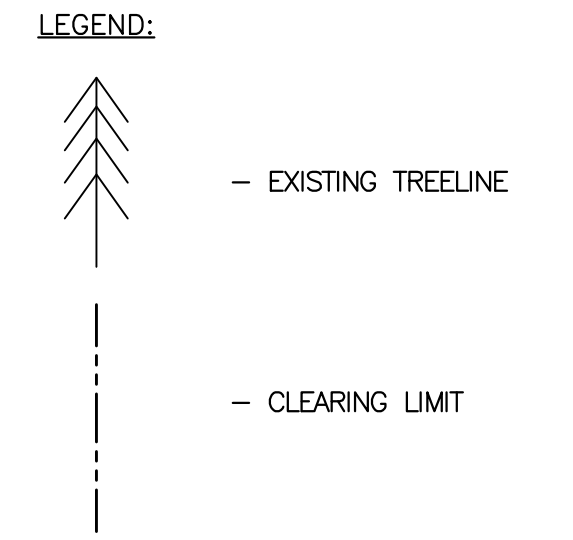
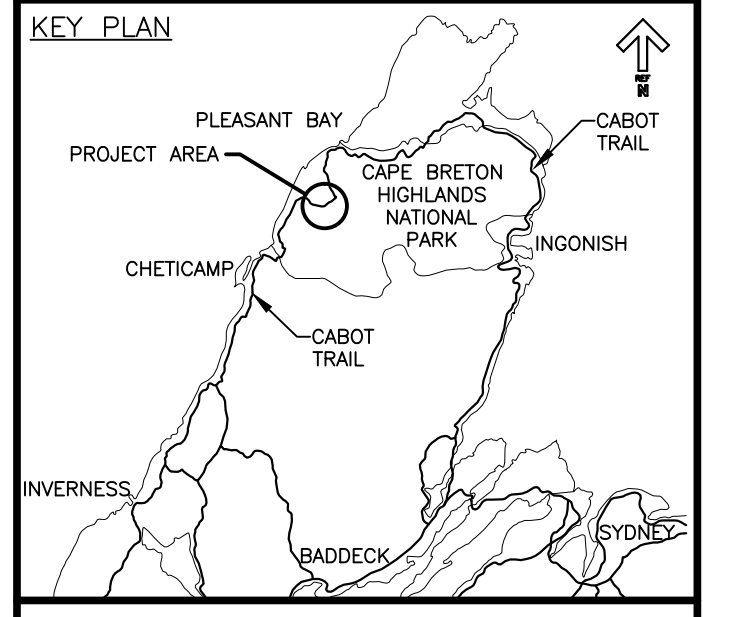


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- EXISTING TREELINE
- CLEARING LIMIT

0	ISSUED FOR TENDER	FEB. 20 2017
revisions		date
project	project	
CABOT TRAIL REHABILITATION FRENCH TO MACKENZIE KM 15.9 TO 21.9 CAPE BRETON HIGHLANDS NATIONAL PARK		
drawing	dessin	

DESIGN SECTIONS		
designed DSC	conçu	
date FEB. 20, 2017		
drawn JLD	dessiné	
date FEB. 20, 2017		
approved RMB	approuvé	
date FEB. 20, 2017		
Tender	Soumission	
PCA Project Manager	FEB. 20, 2017 Administrateur de projets PCA	
project number	no. du projet	
1114		
drawing no.	no. du dessin	
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0	ISSUED FOR TENDER	FEB. 20 2017
revisions		date

**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessin

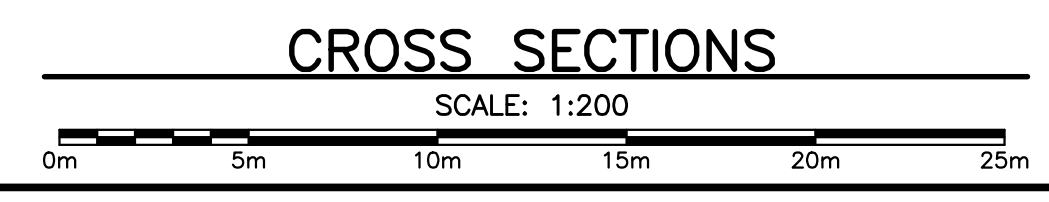
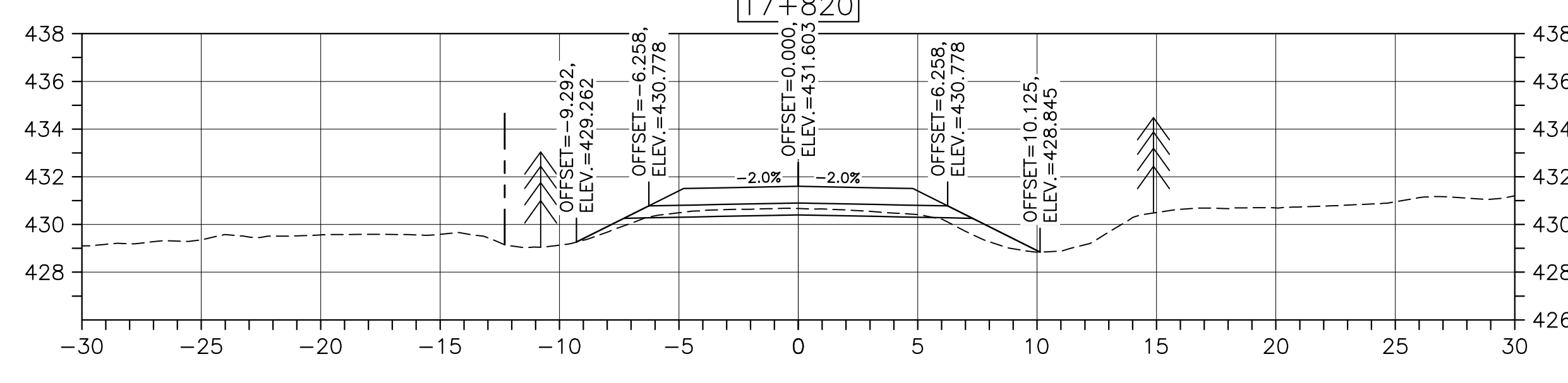
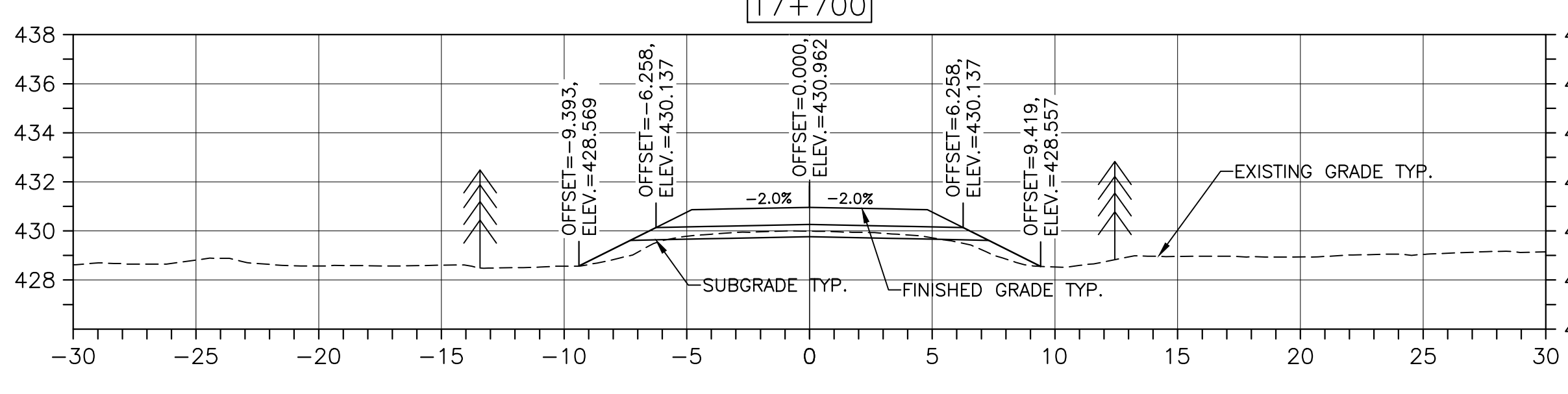
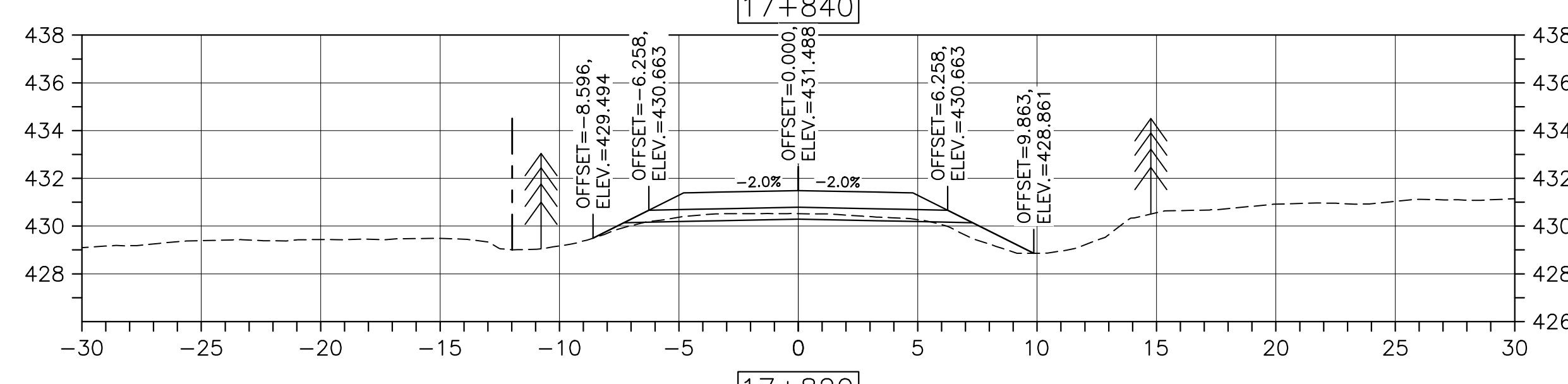
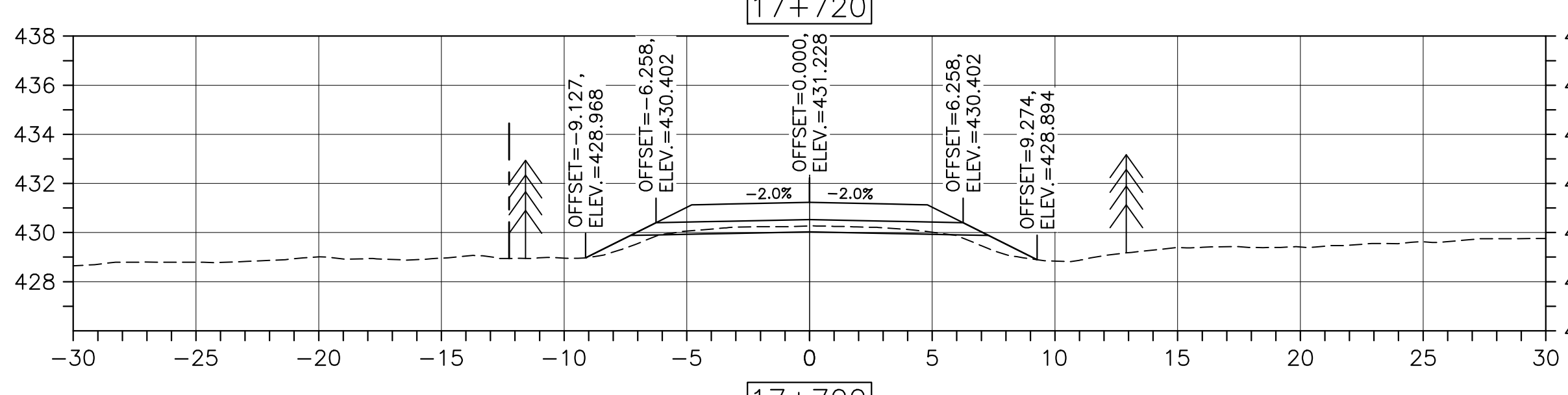
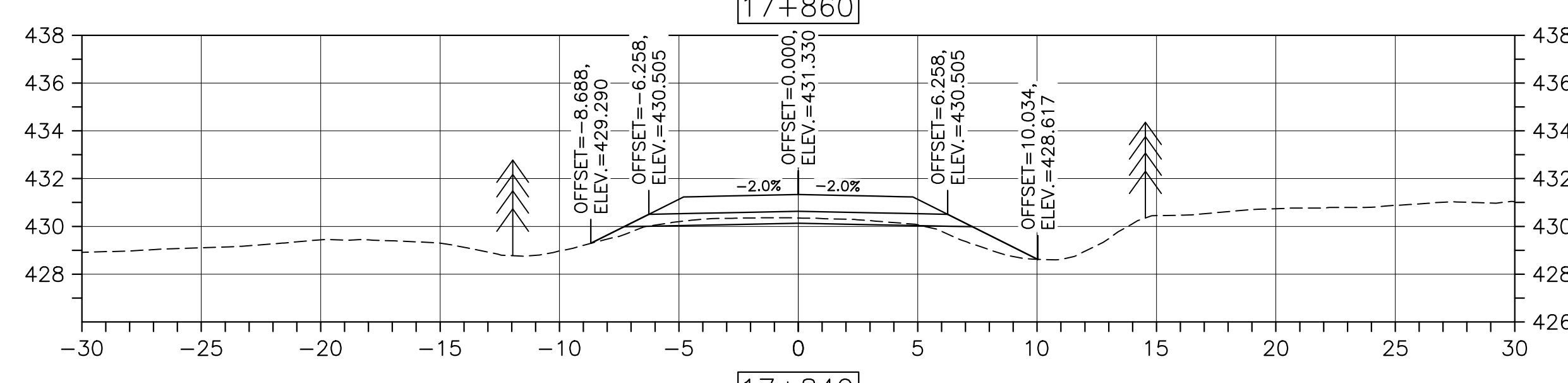
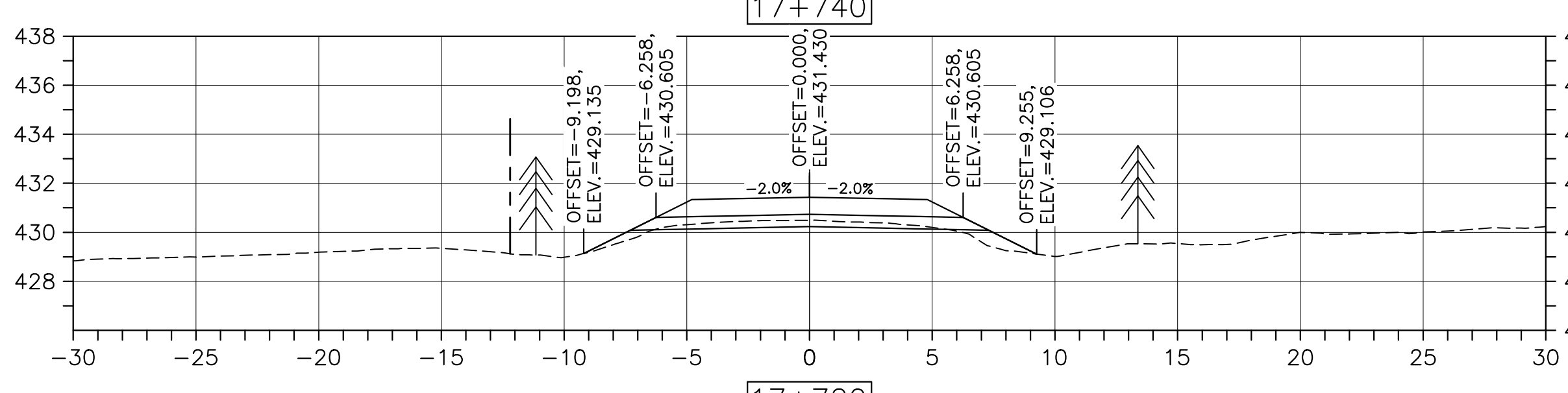
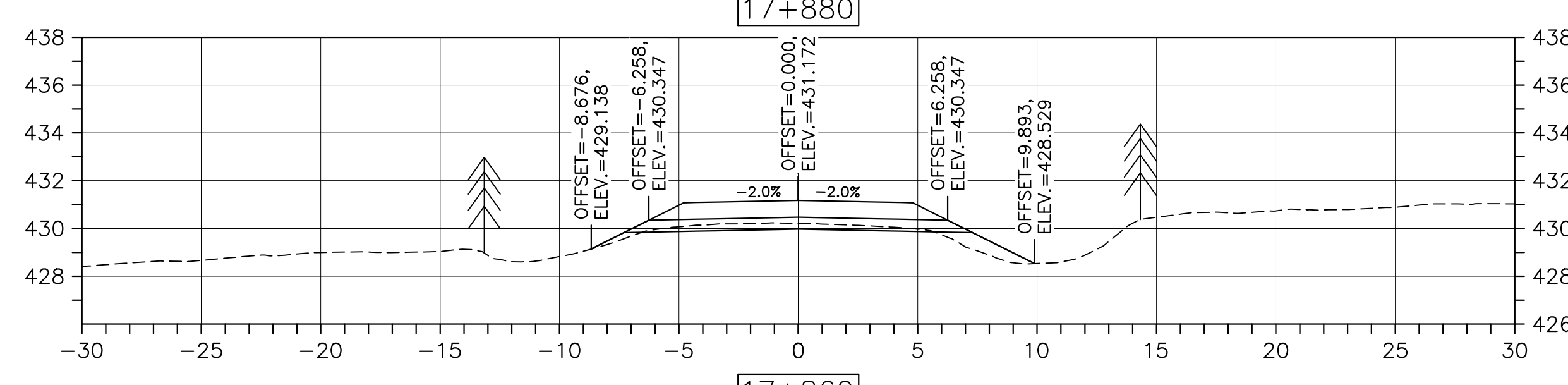
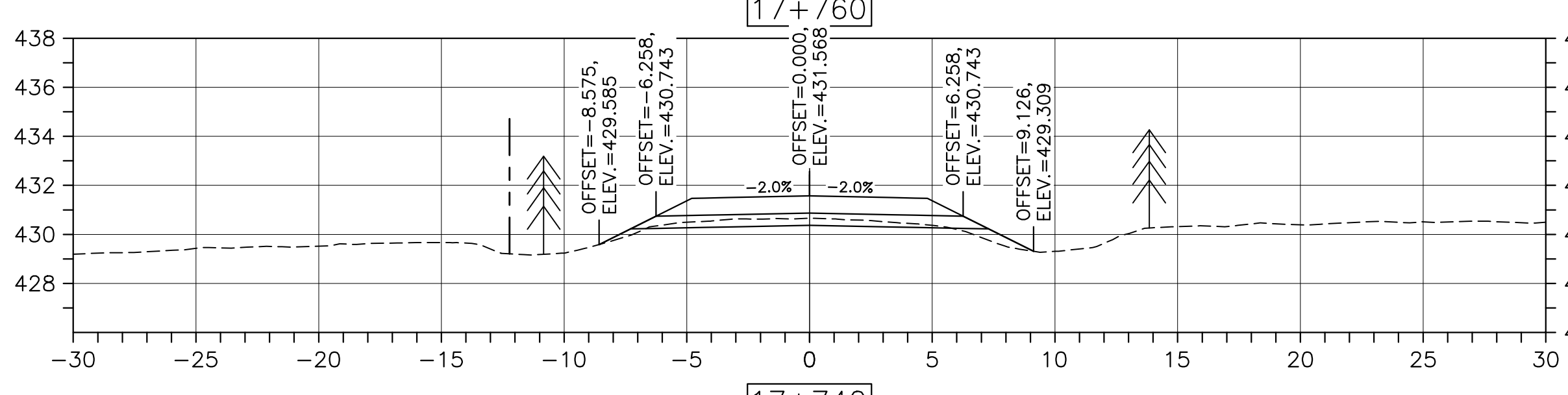
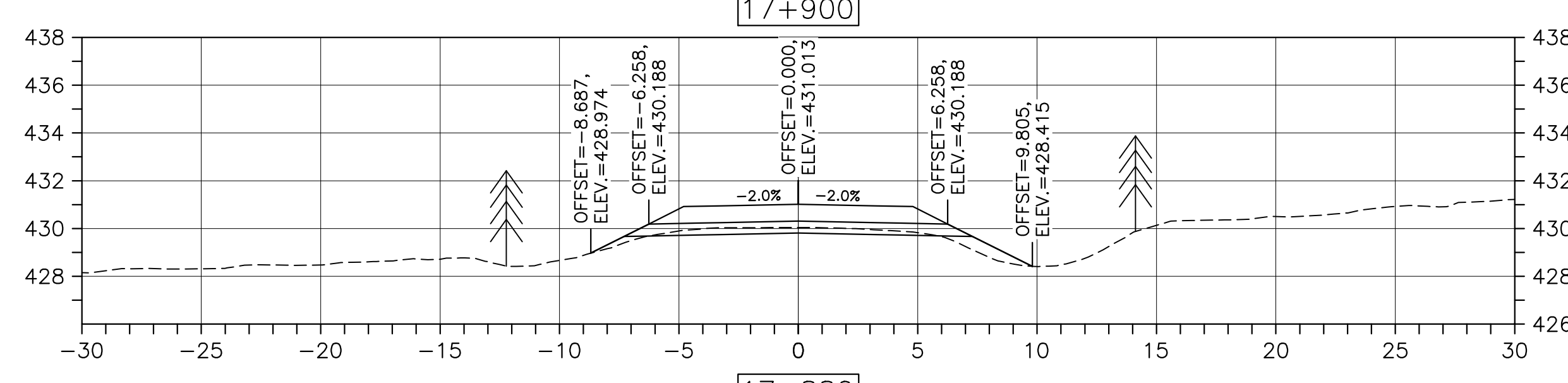
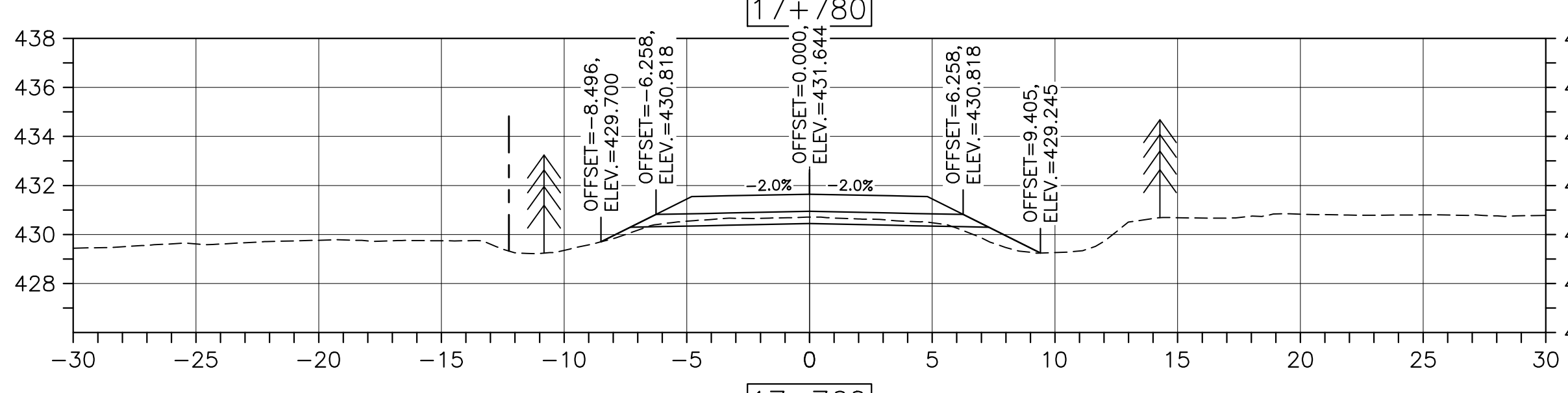
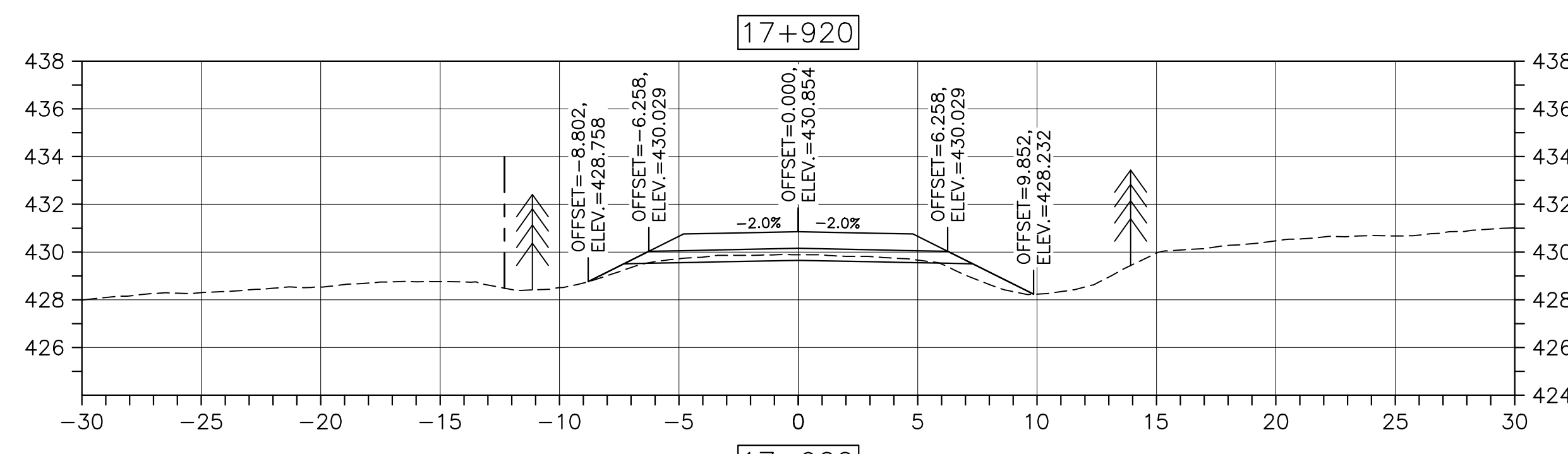
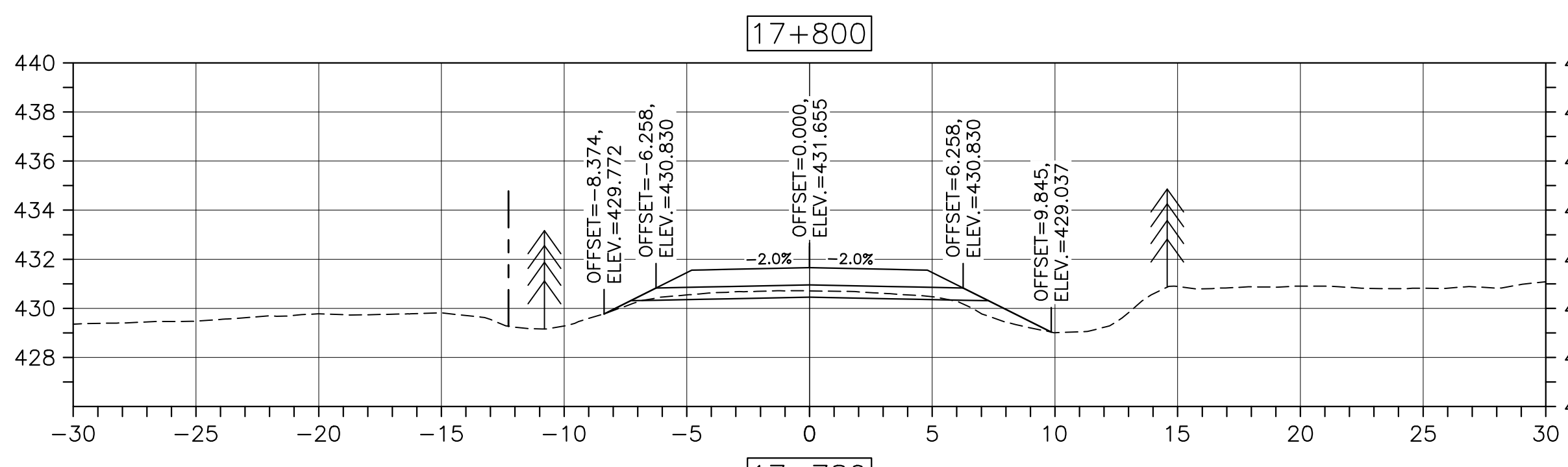
DESIGN SECTIONS

designed	DSC	conçu
date	FEB. 20, 2017	
drawn	JLD	dessiné
date	FEB. 20, 2017	
approved	RMB	approuvé
date	FEB. 20, 2017	
Tender	<i>Stantec</i>	Soumission
PCA Project Manager		FEB. 20, 2017
		Administrateur de projets PCA
project number		no. du projet

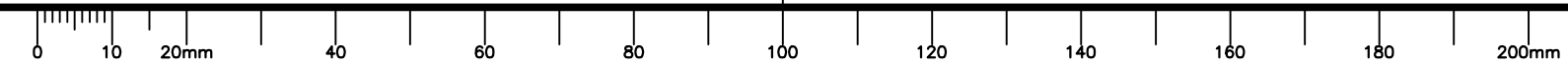
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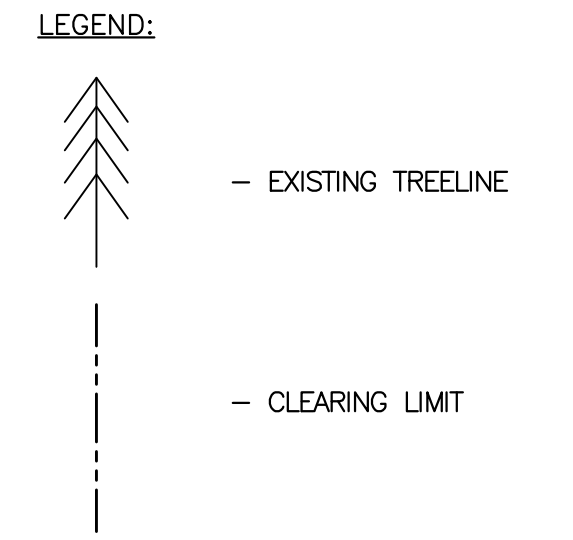
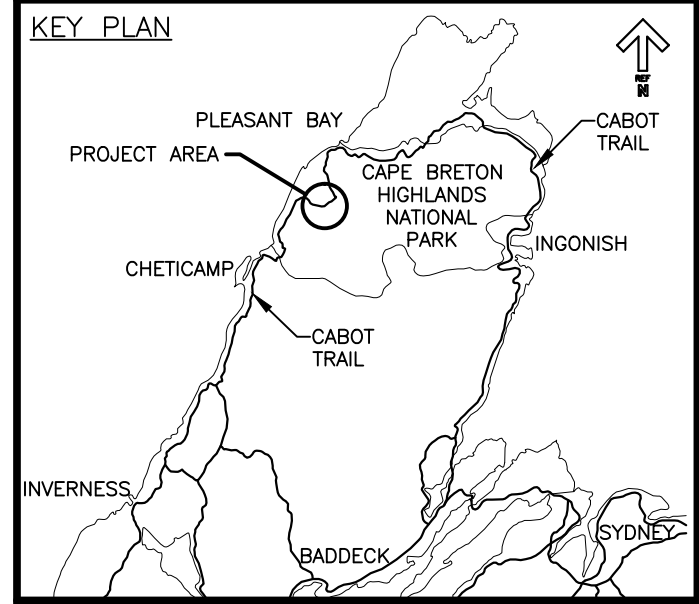
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C-49



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0	ISSUED FOR TENDER	FEB. 20 2017
revisions		date

project CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK

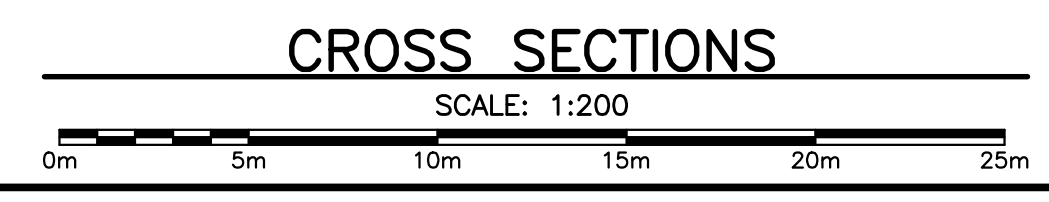
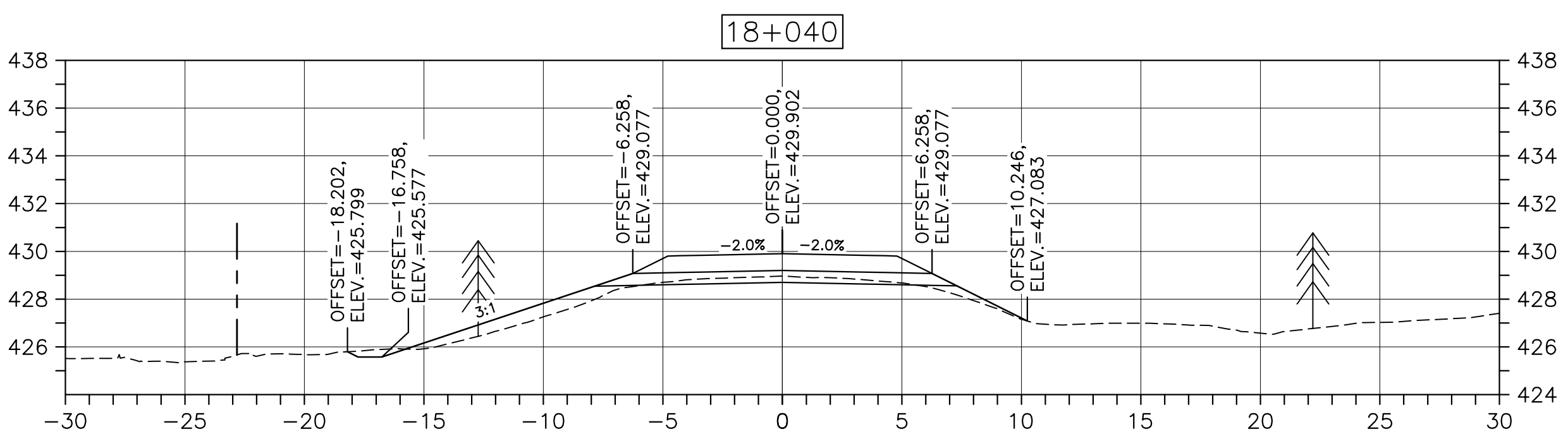
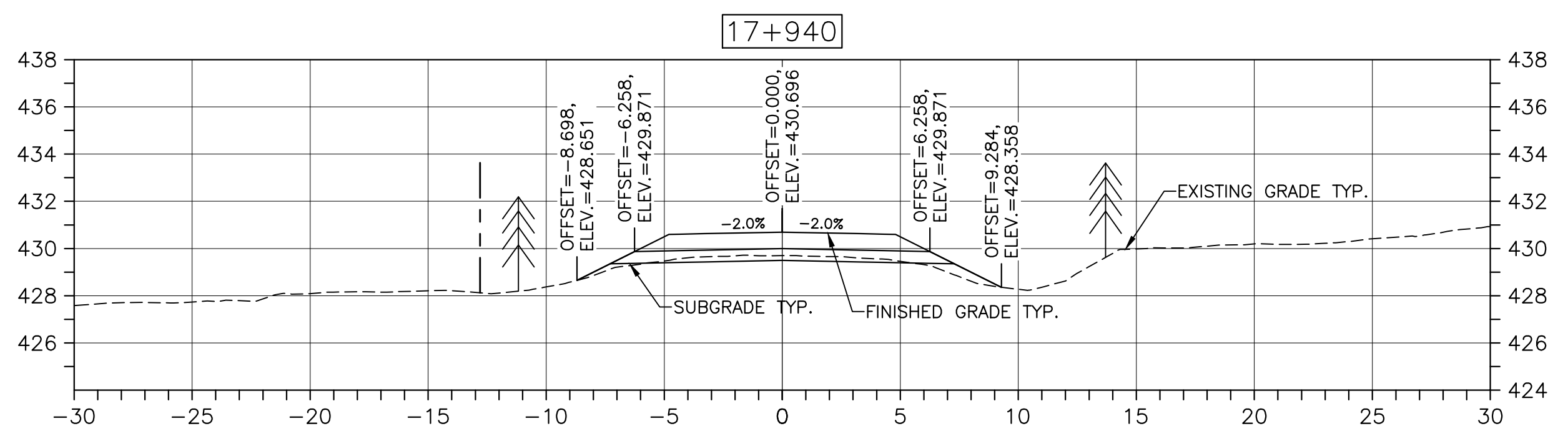
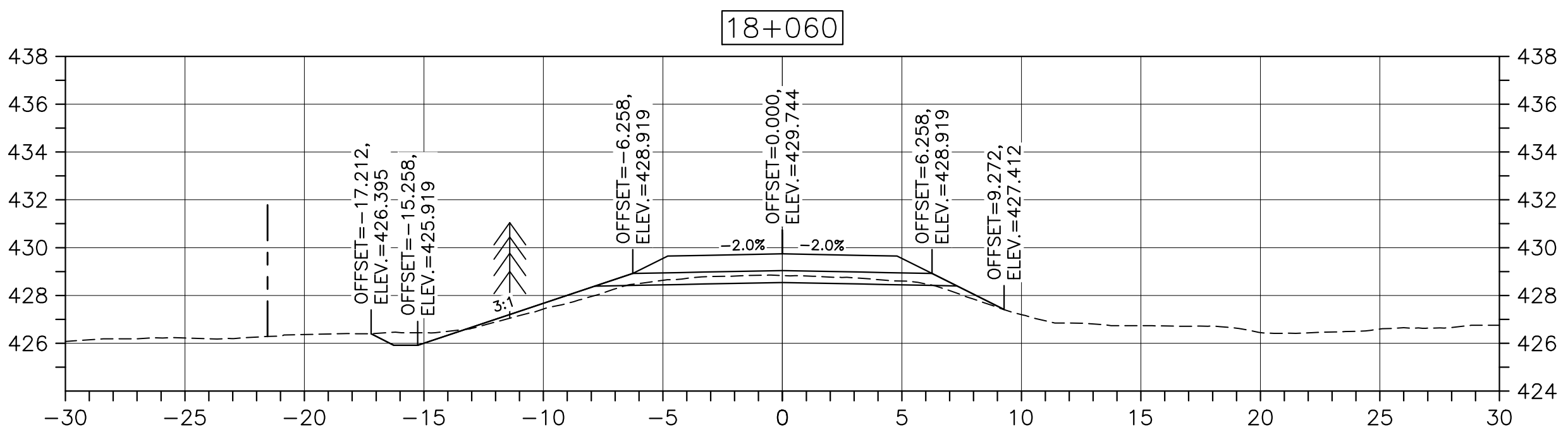
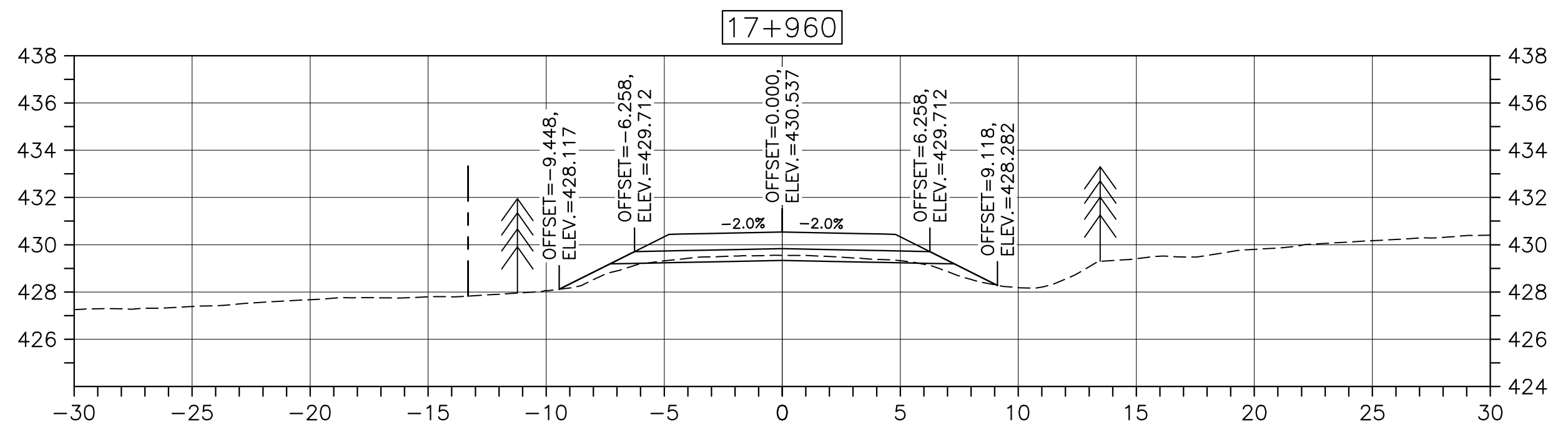
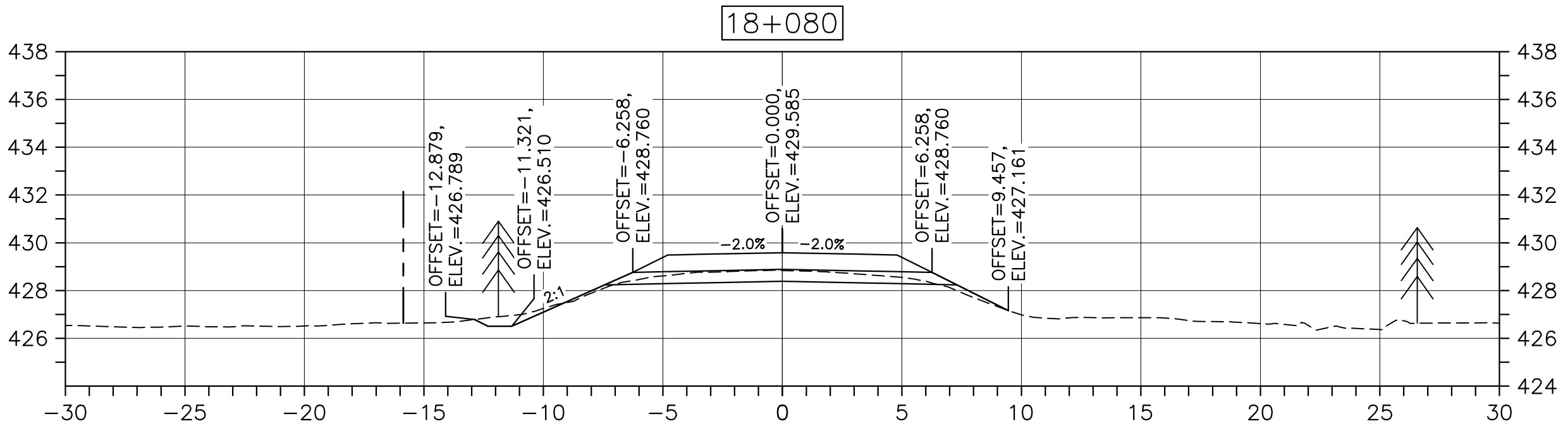
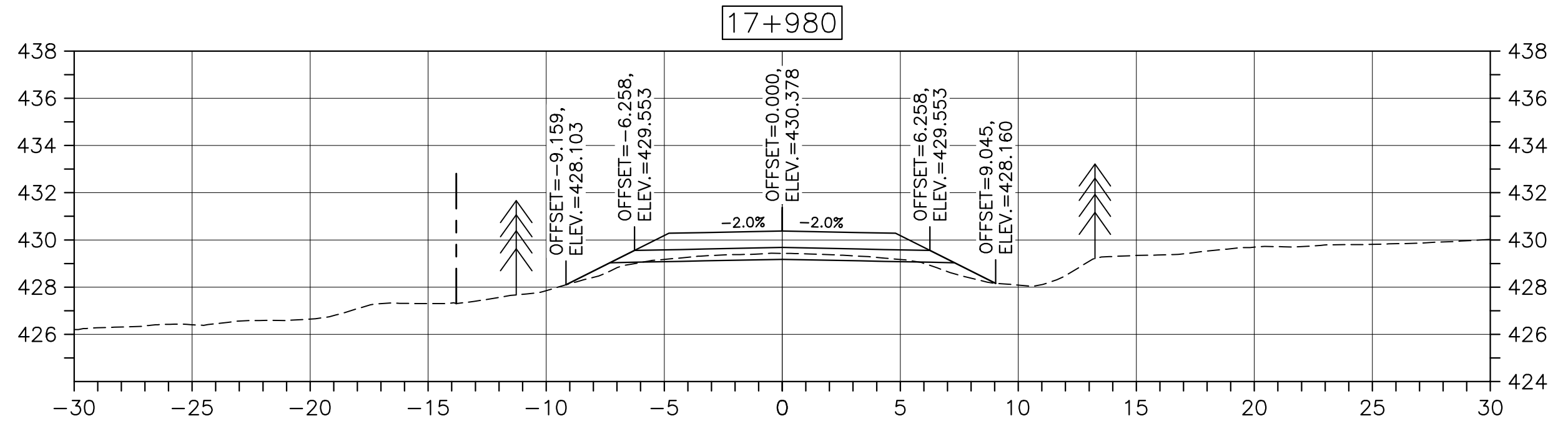
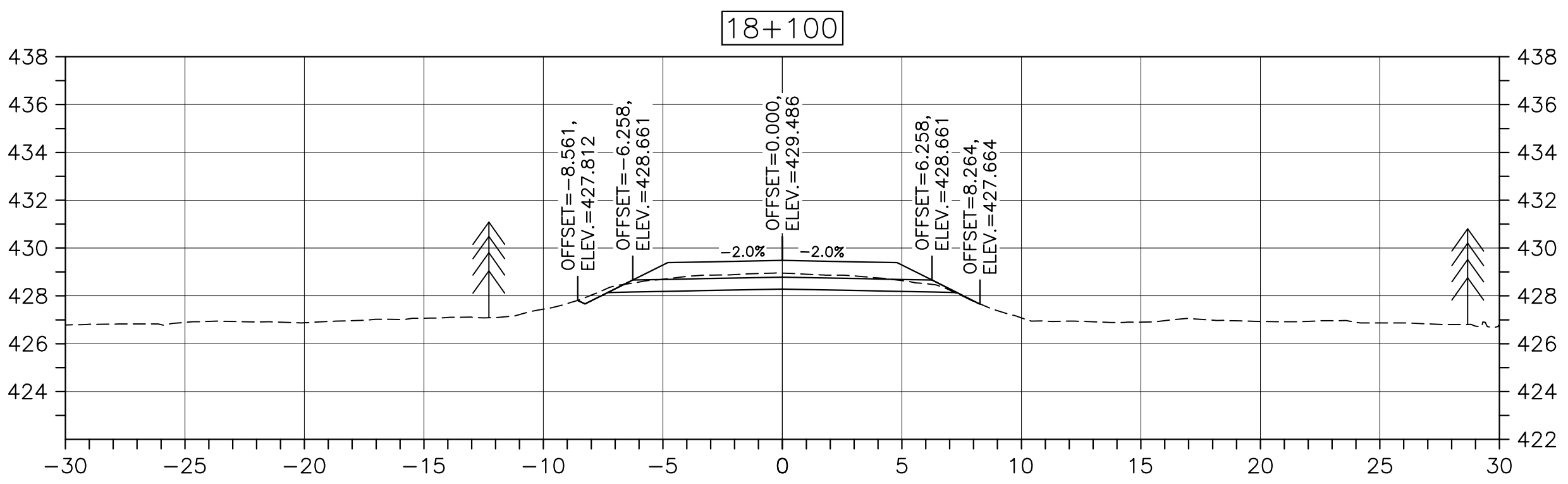
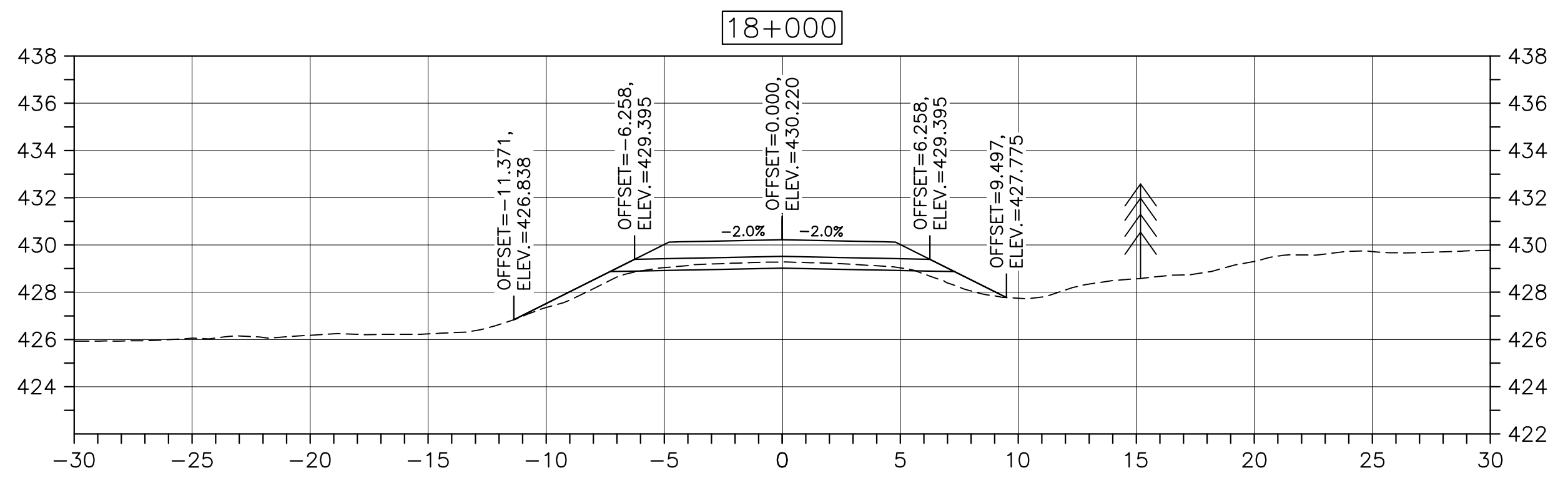
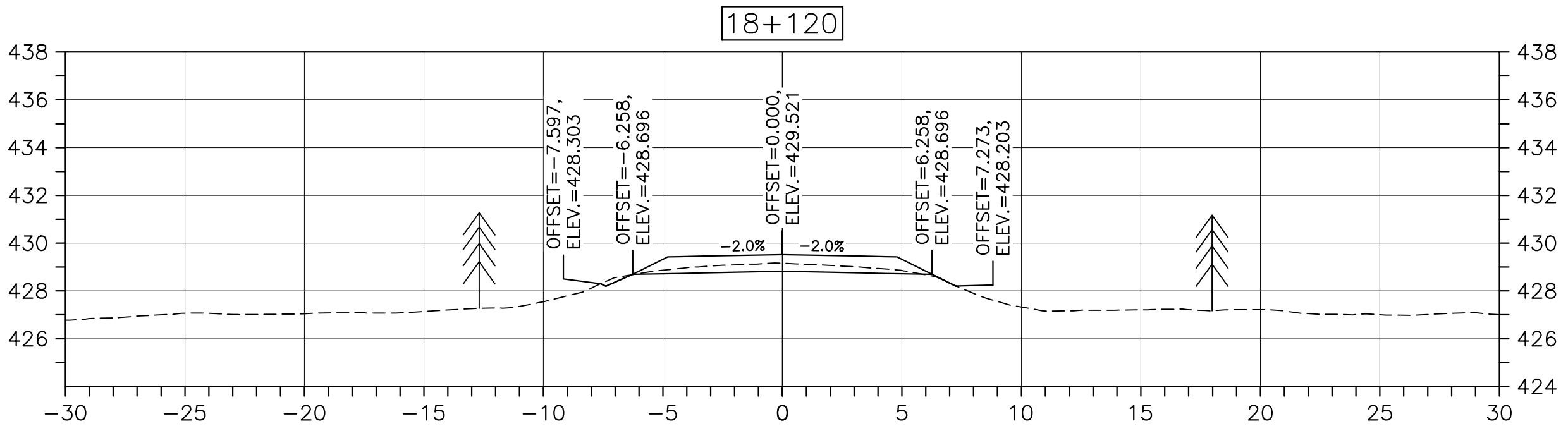
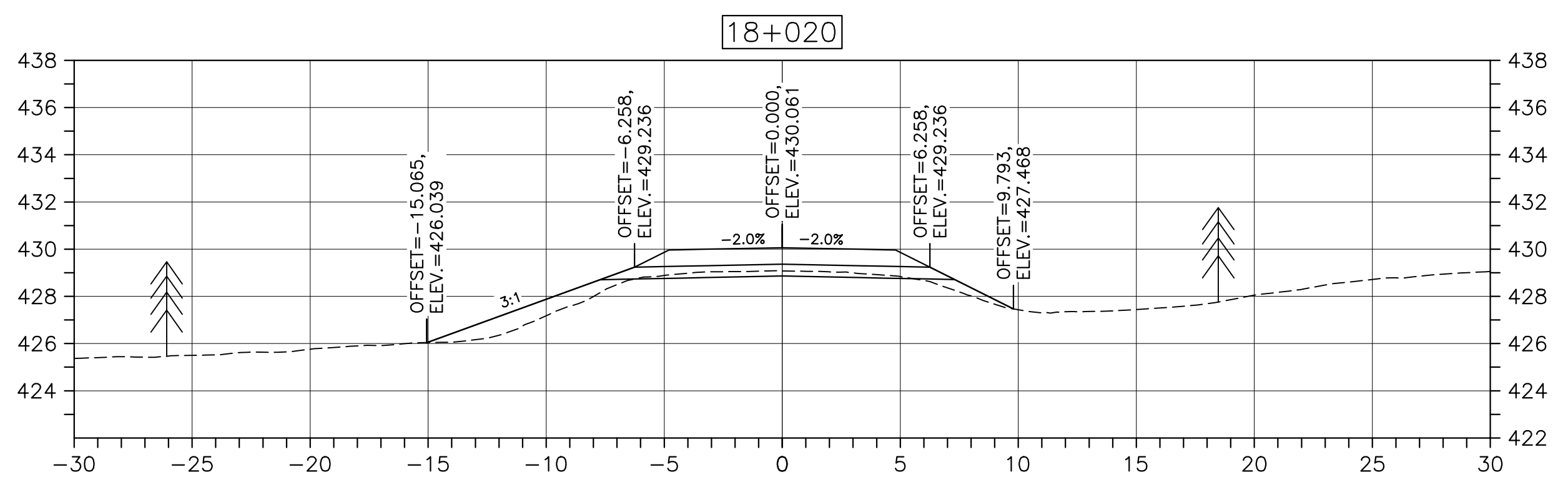
drawing design

DESIGN SECTIONS

designed DSC	conçu
date FEB. 20, 2017	
drawn JLD	dessiné
date FEB. 20, 2017	
approved RMB	approuvé
date FEB. 20, 2017	
Tender <i>[Signature]</i>	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

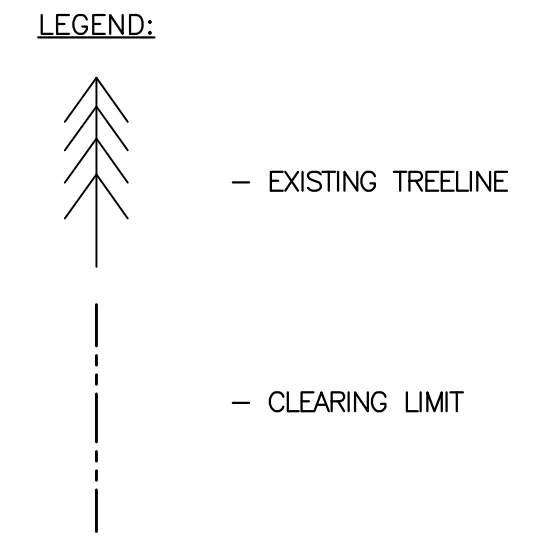
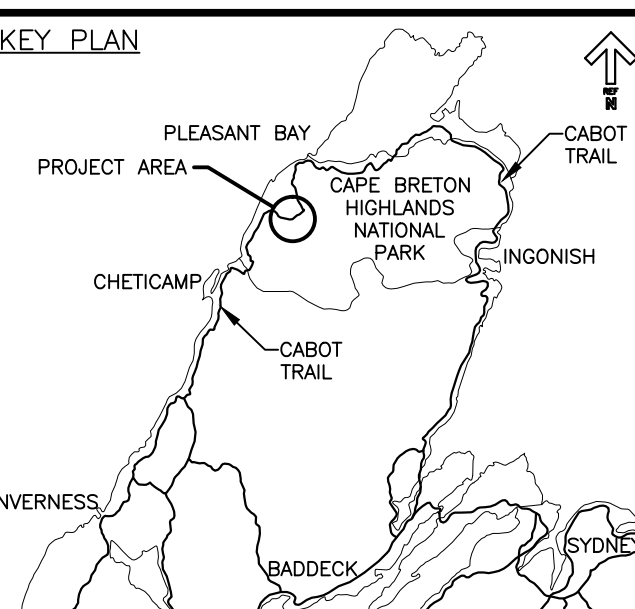
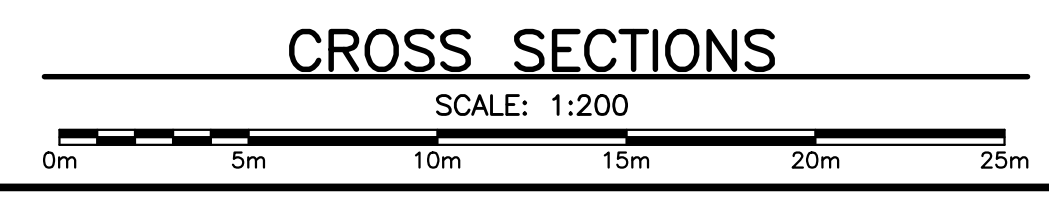
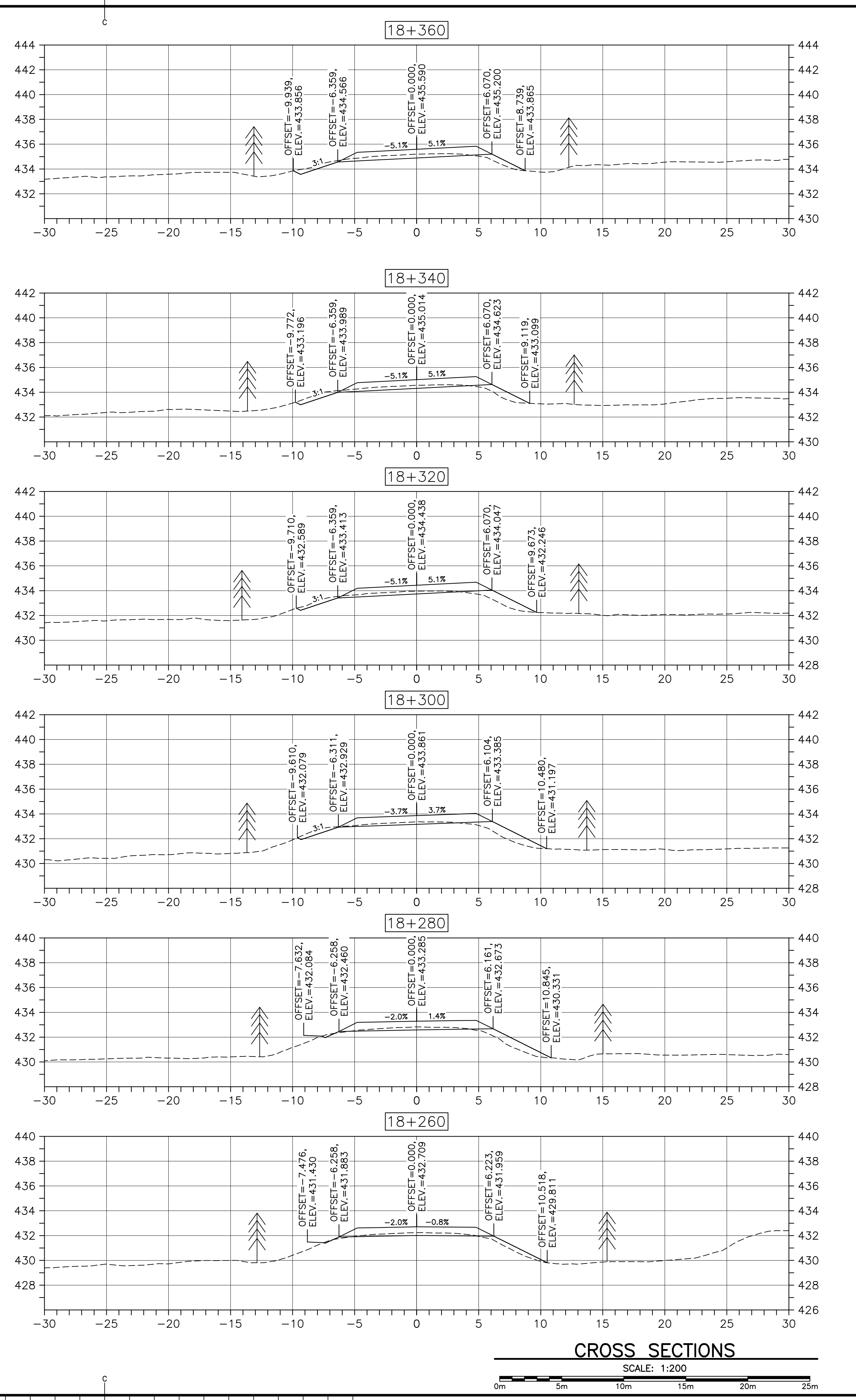
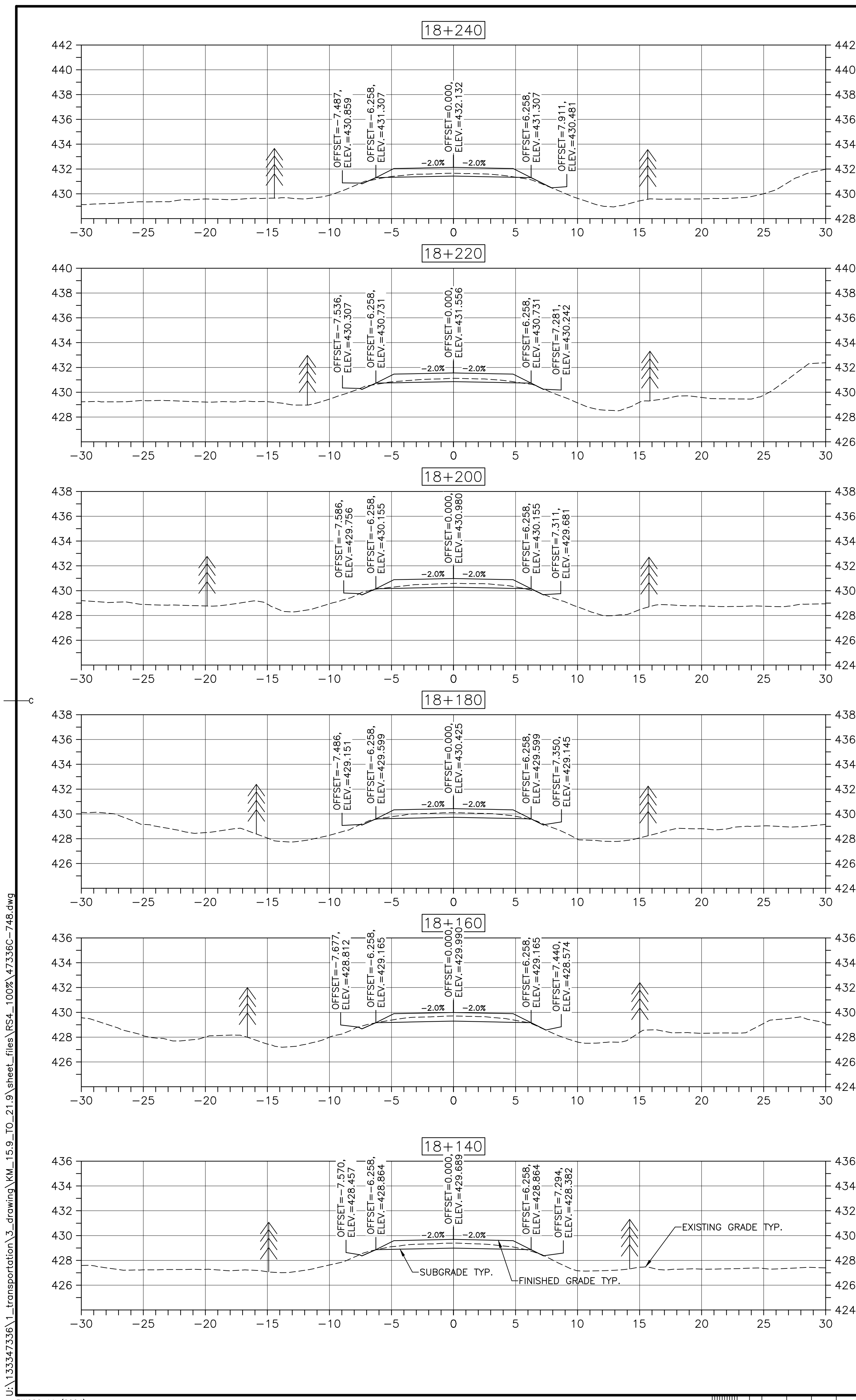
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drawing no. C-50 no. du dessin



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0	ISSUED FOR TENDER	FEB. 20 2017
revisions		date

project CABOT TRAIL REHABILITATION
 FRENCH TO MACKENZIE
 KM 15.9 TO 21.9
 CAPE BRETON HIGHLANDS
 NATIONAL PARK

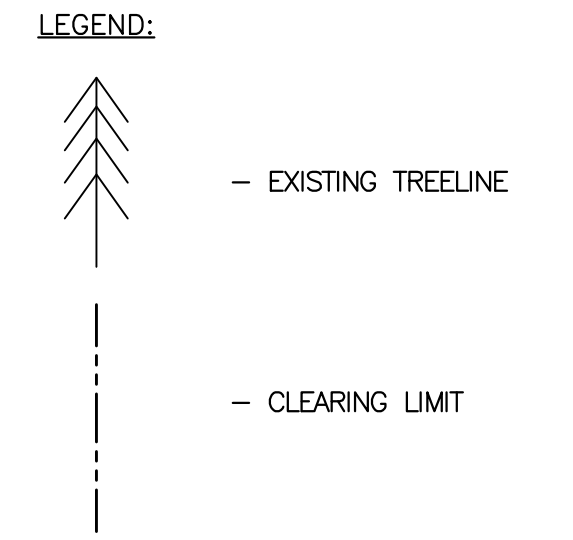
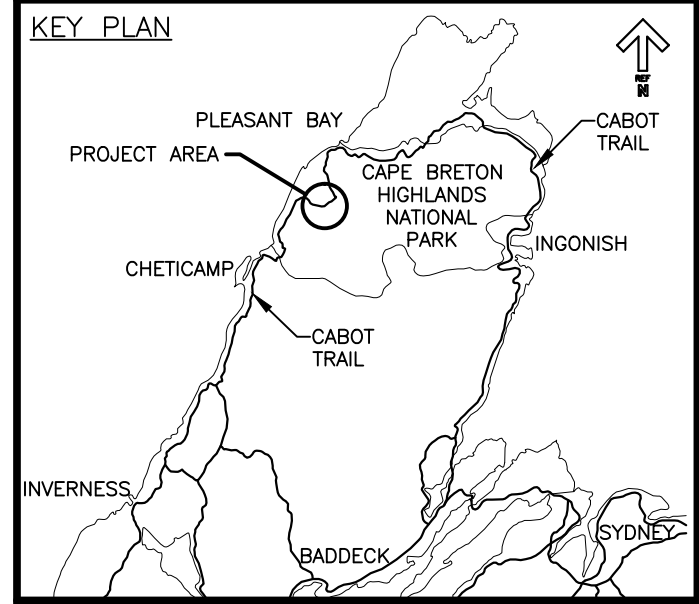
drawing design

DESIGN SECTIONS

designed DSC	conçu
date FEB. 20, 2017	
drawn JLD	dessiné
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approved RMB	approuvé
date FEB. 20, 2017	
Tender <i>[Signature]</i>	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

1114

drawing no. C-51 no. du dessin



0	ISSUED FOR TENDER	FEB. 20 2017
revisions		date

project CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK

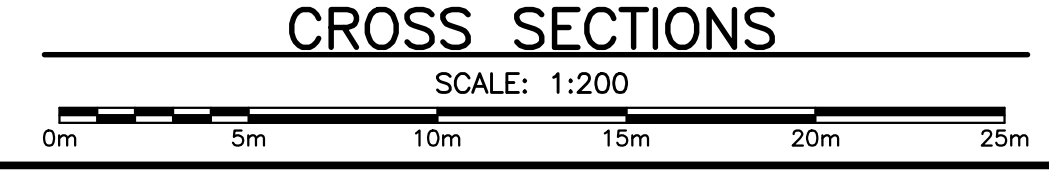
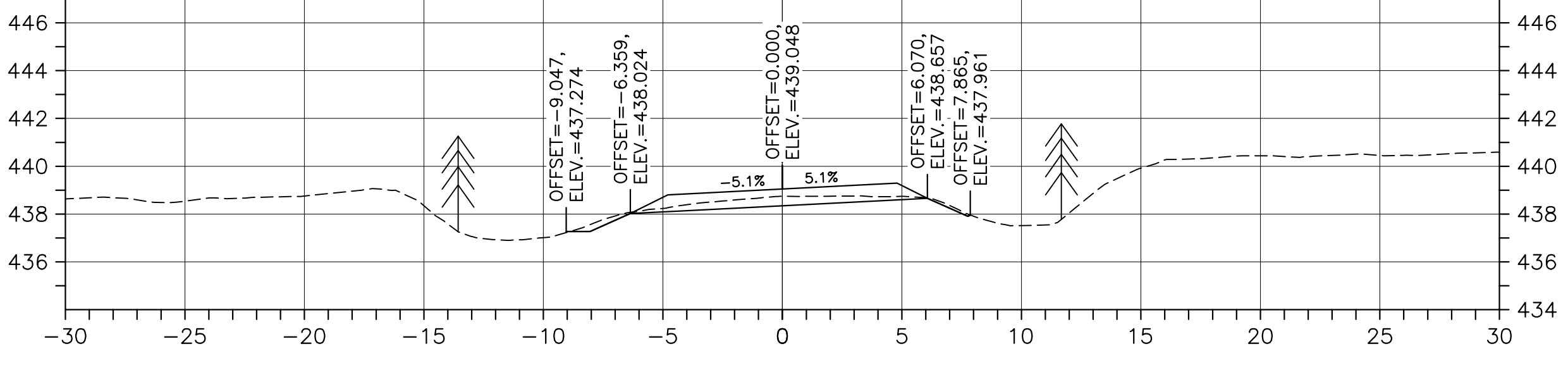
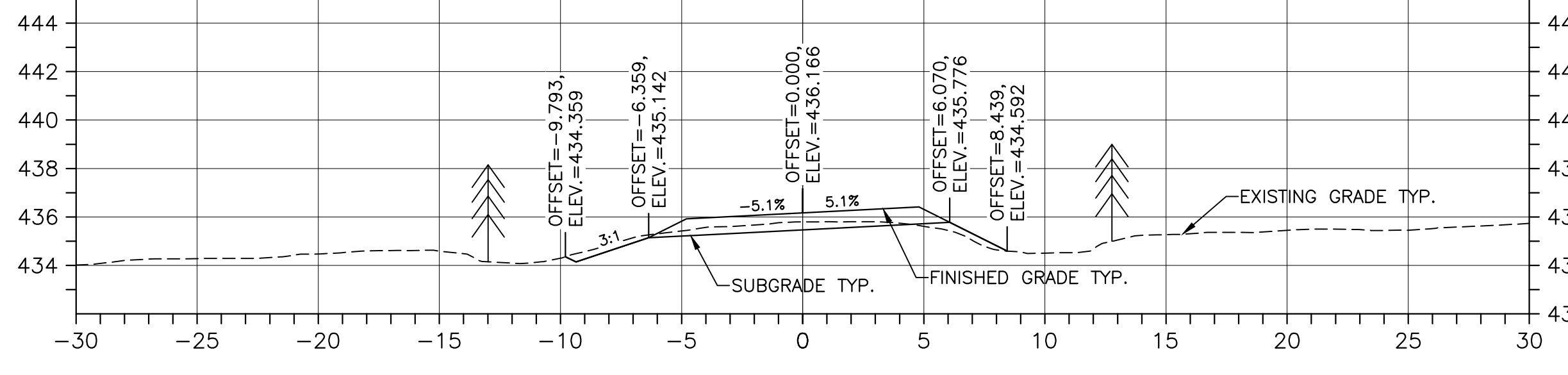
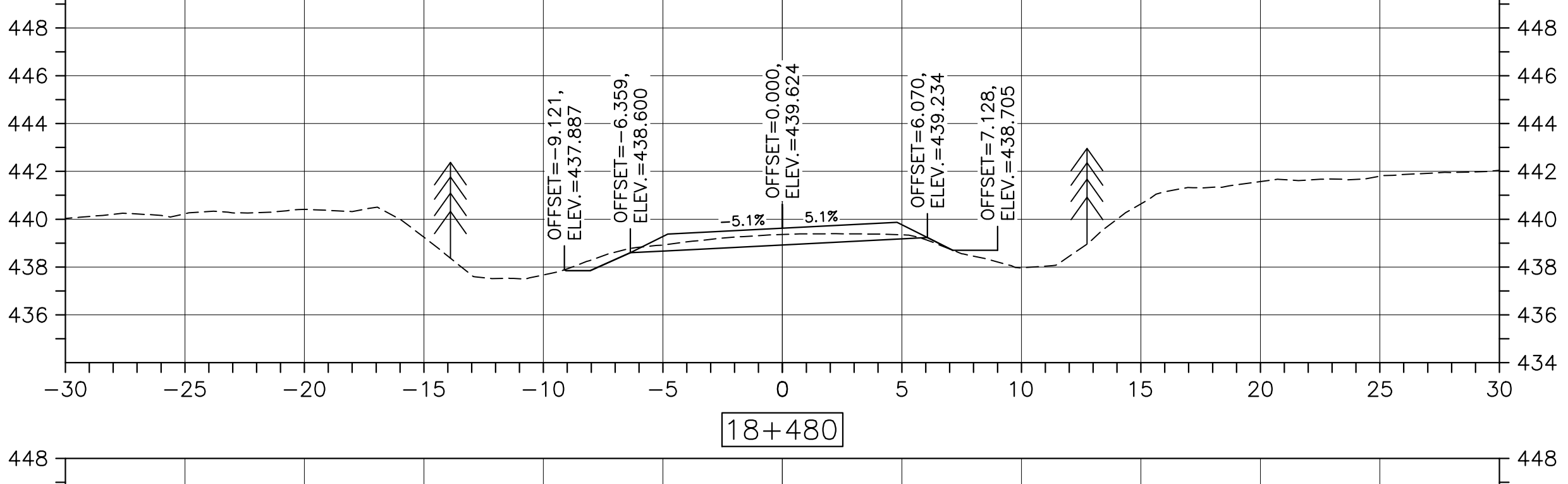
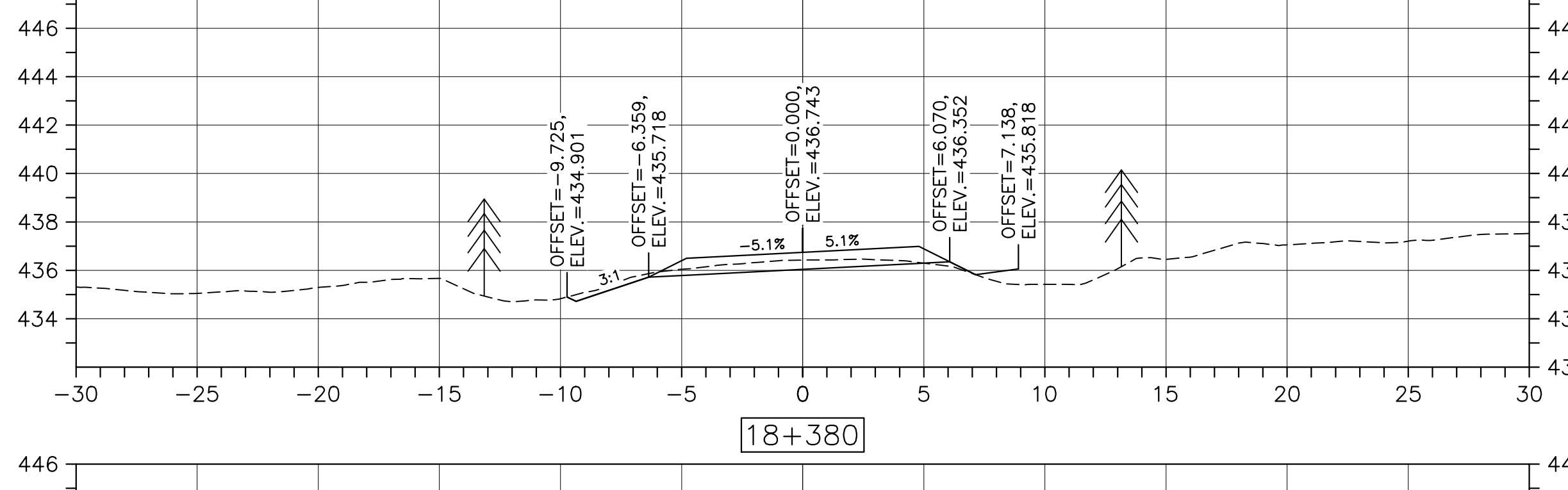
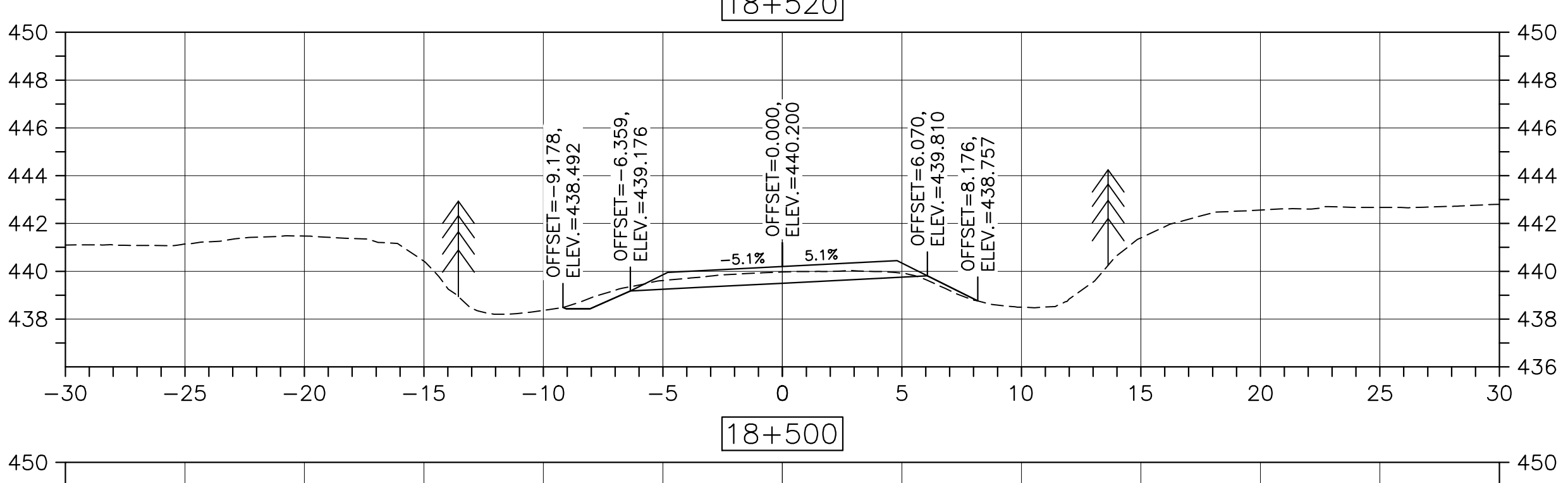
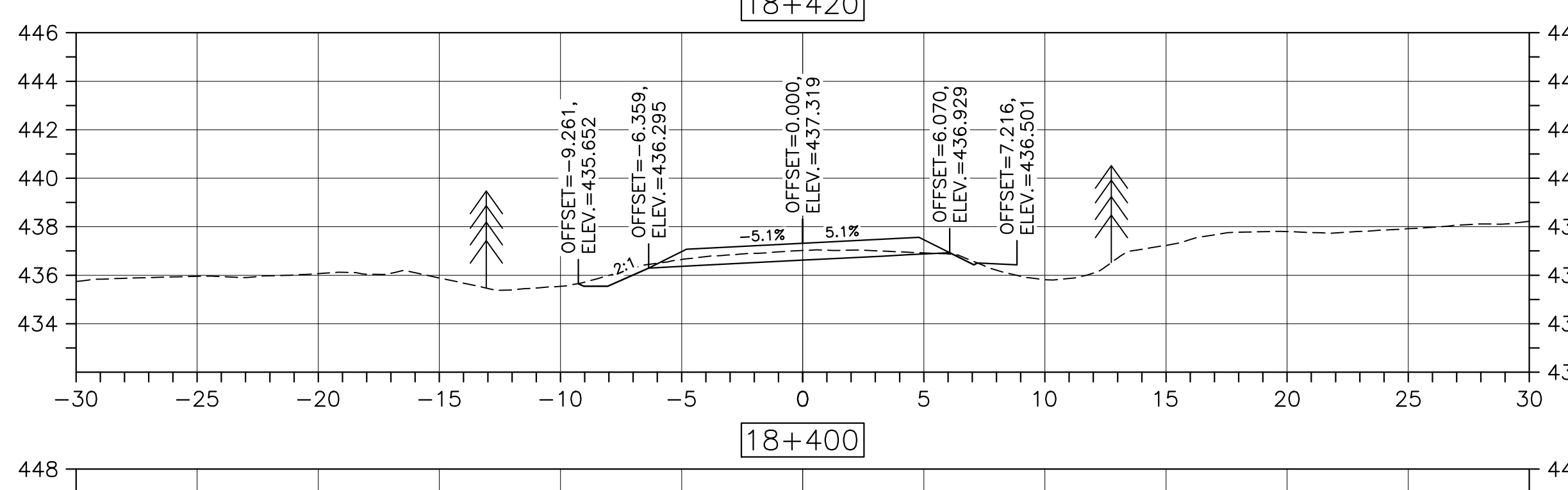
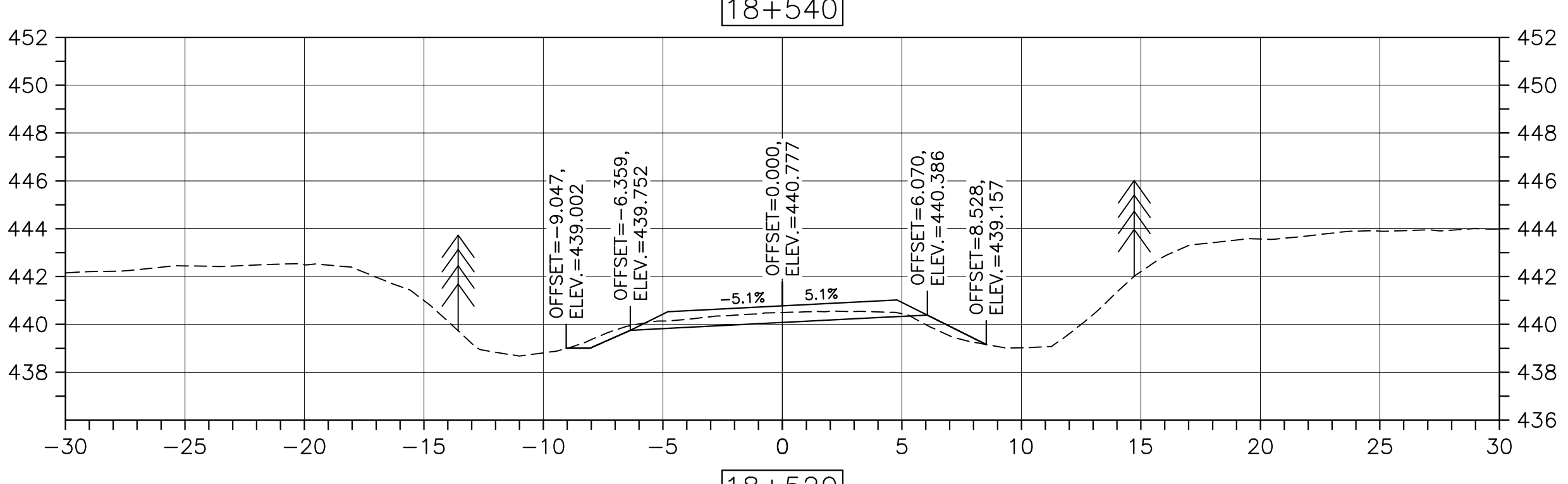
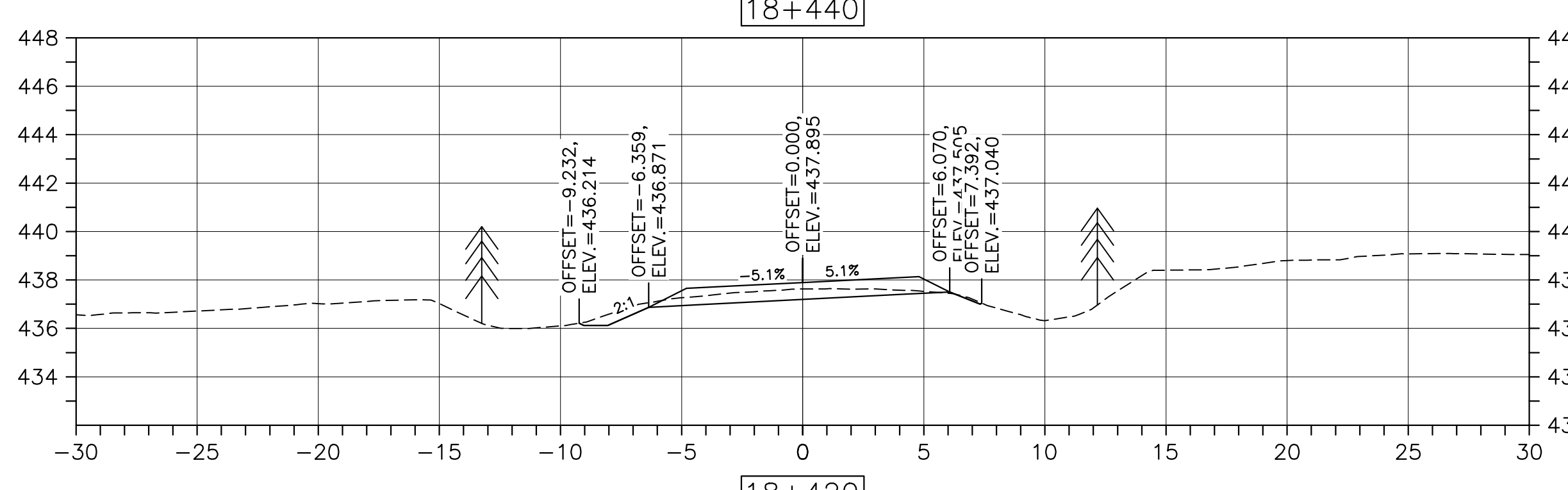
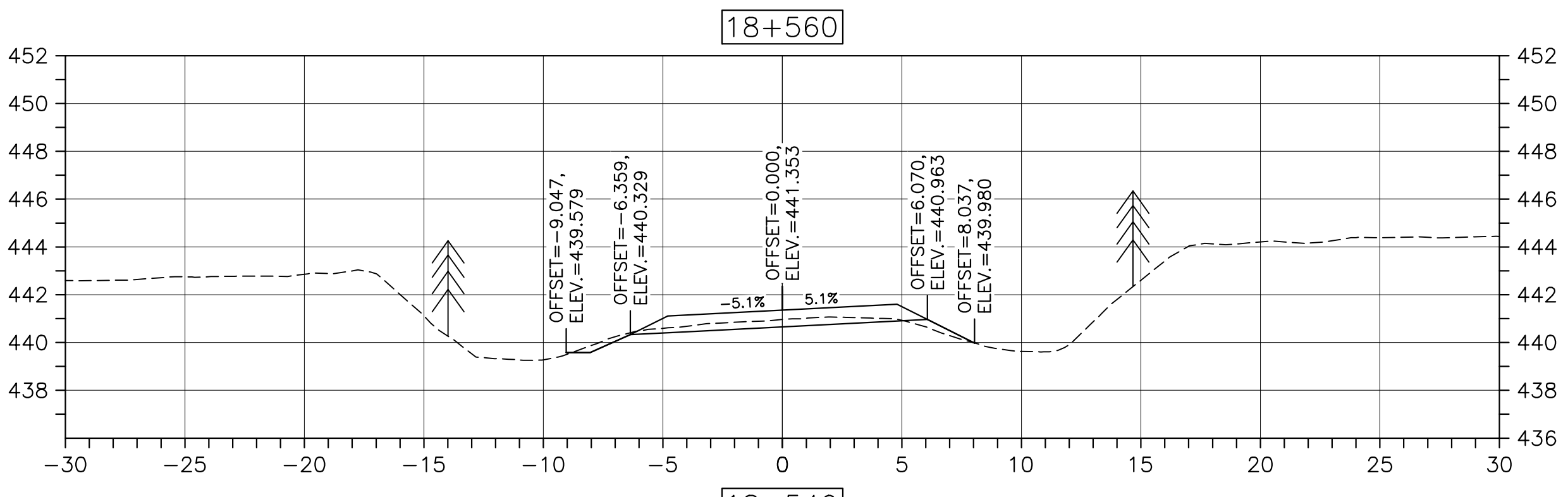
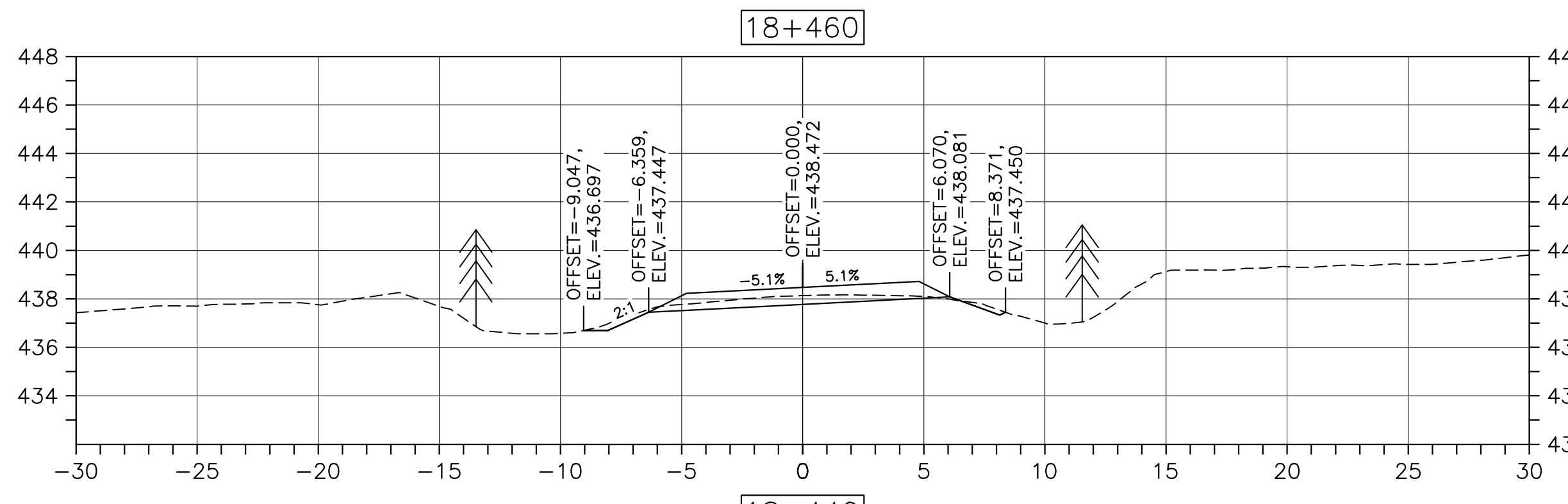
drawing dessin

DESIGN SECTIONS

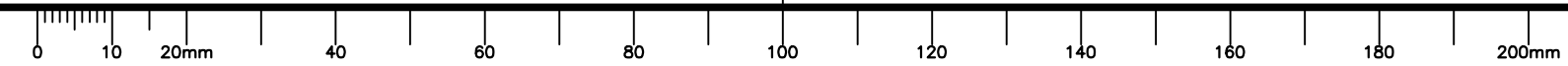
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date FEB. 20, 2017	
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Tender <i>Stantec</i>	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

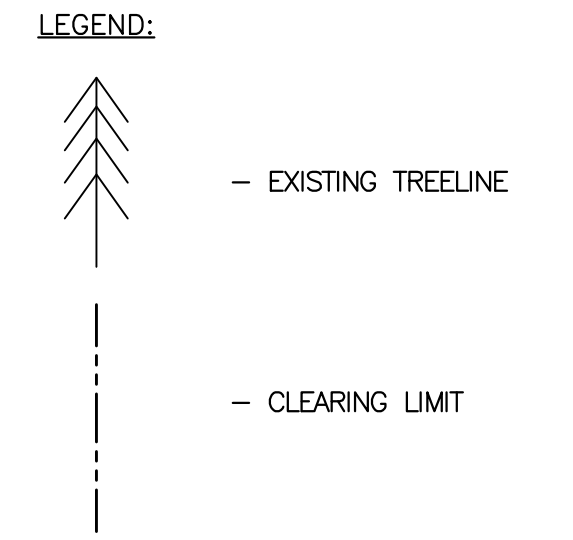
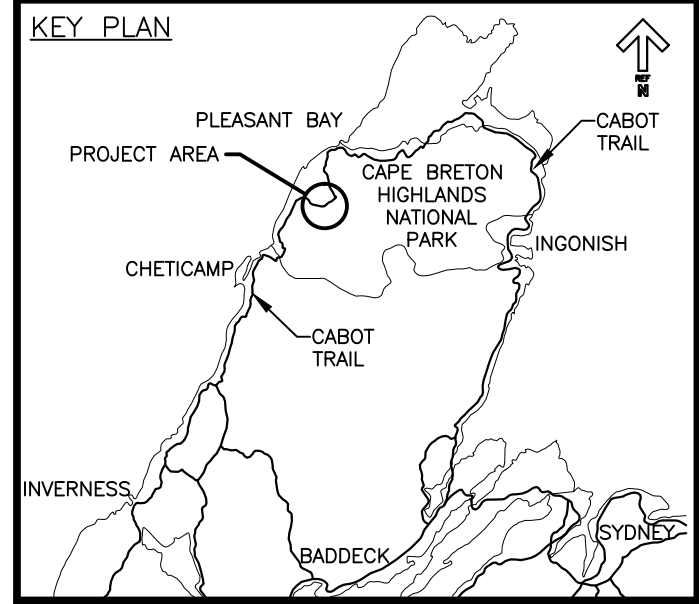
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drawing no. C-52 no. du dessin



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0	ISSUED FOR TENDER	FEB. 20 2017
revisions		date

project CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK

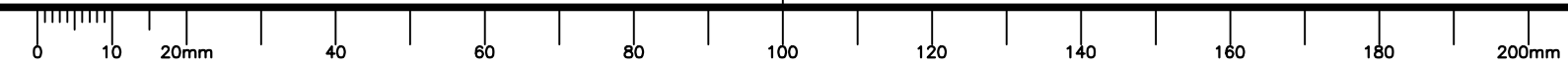
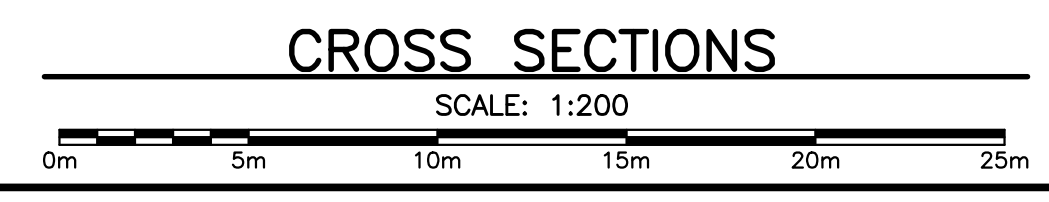
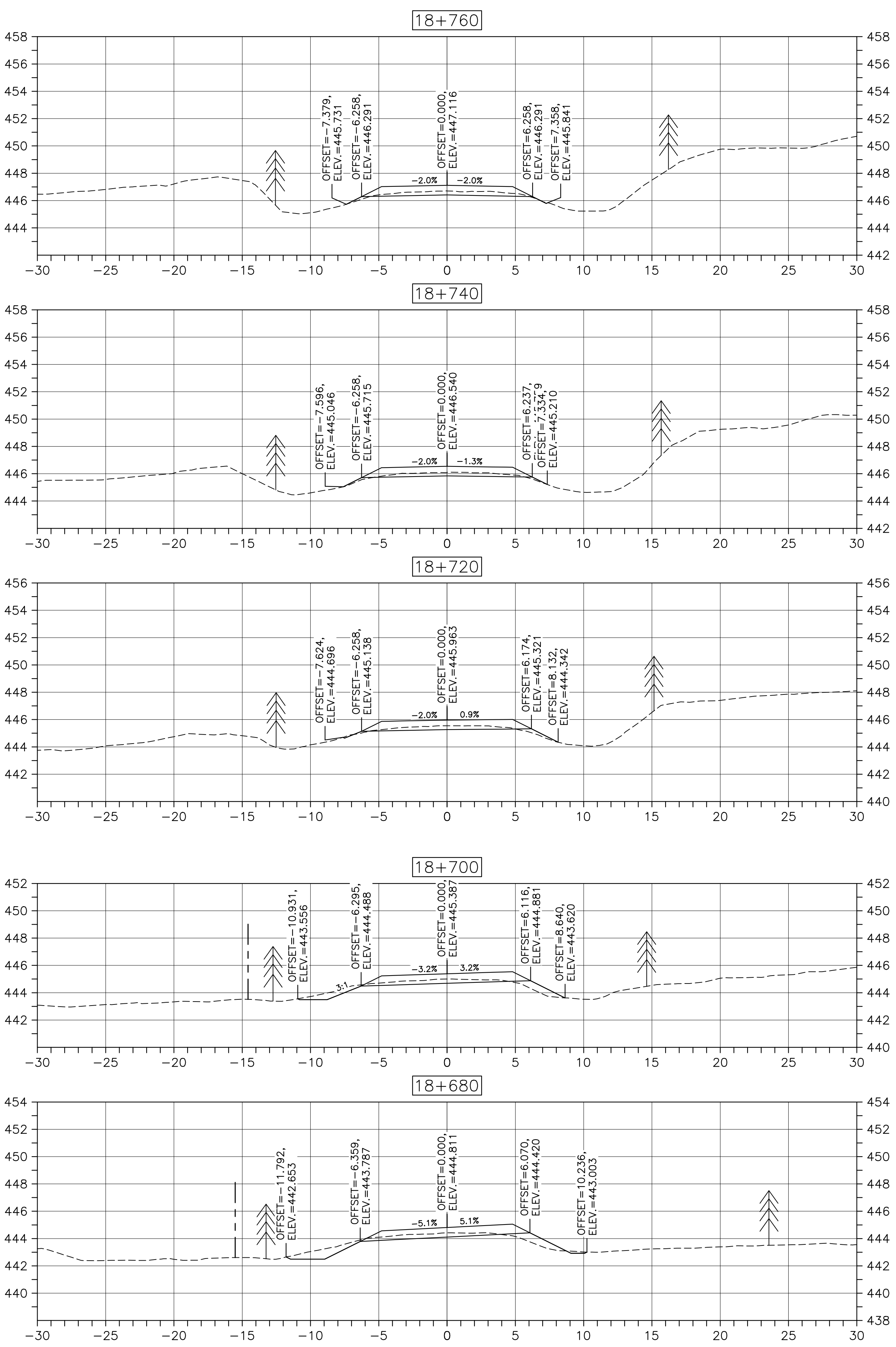
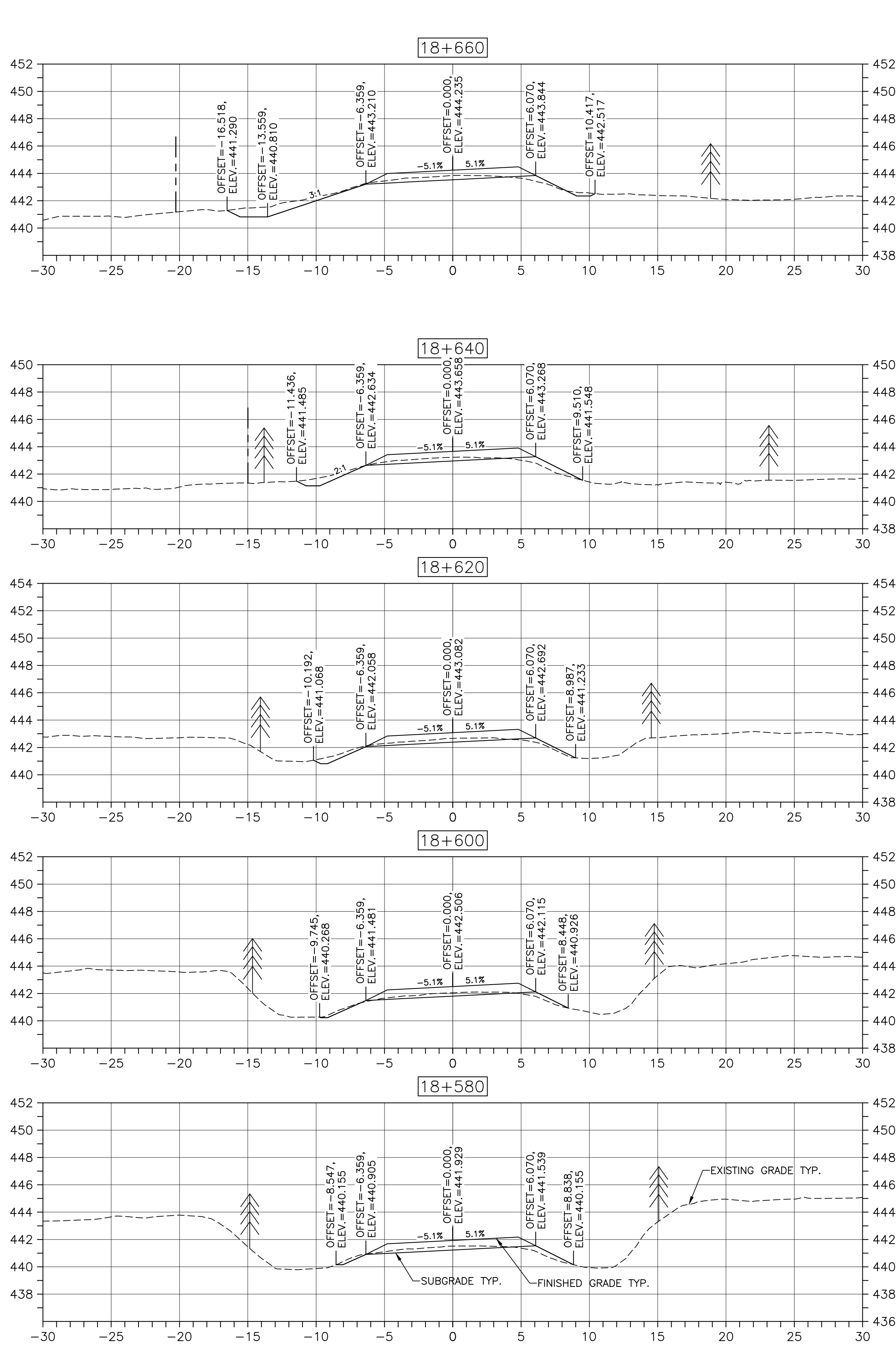
drawing design

DESIGN SECTIONS

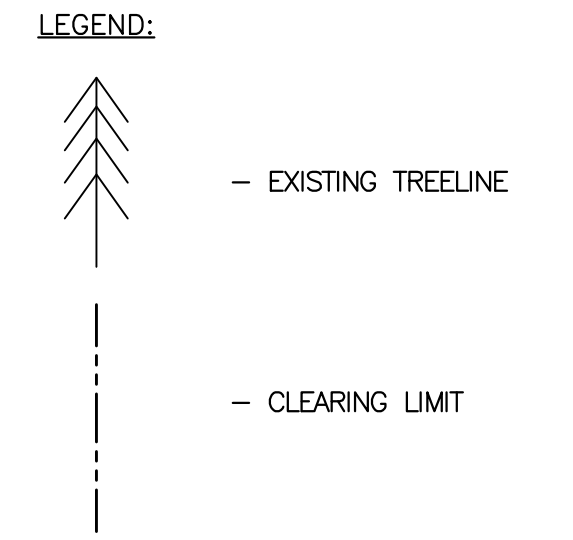
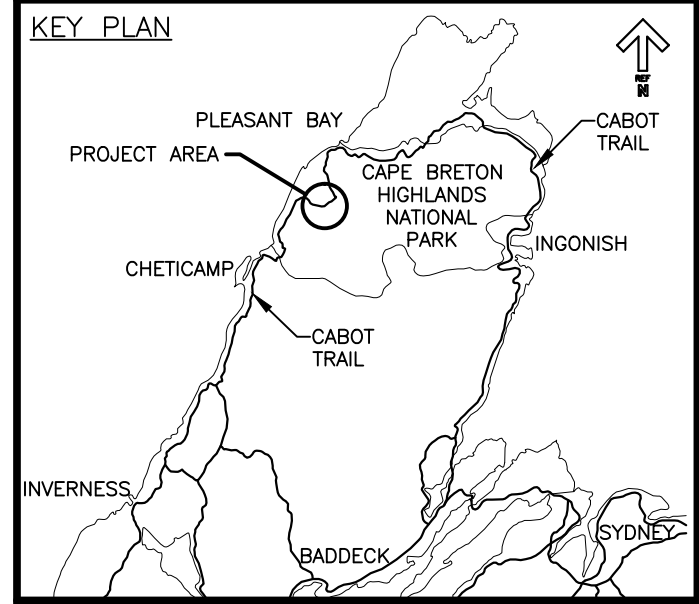
designed DSC	conçu
date FEB. 20, 2017	
drawn JLD	dessiné
date FEB. 20, 2017	
approved RMB	approuvé
date FEB. 20, 2017	
Tender <i>[Signature]</i>	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

1114

drawing no. C-53 no. du dessin



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0	ISSUED FOR TENDER	FEB. 20 2017
revisions		date

project CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing C-54 dessin

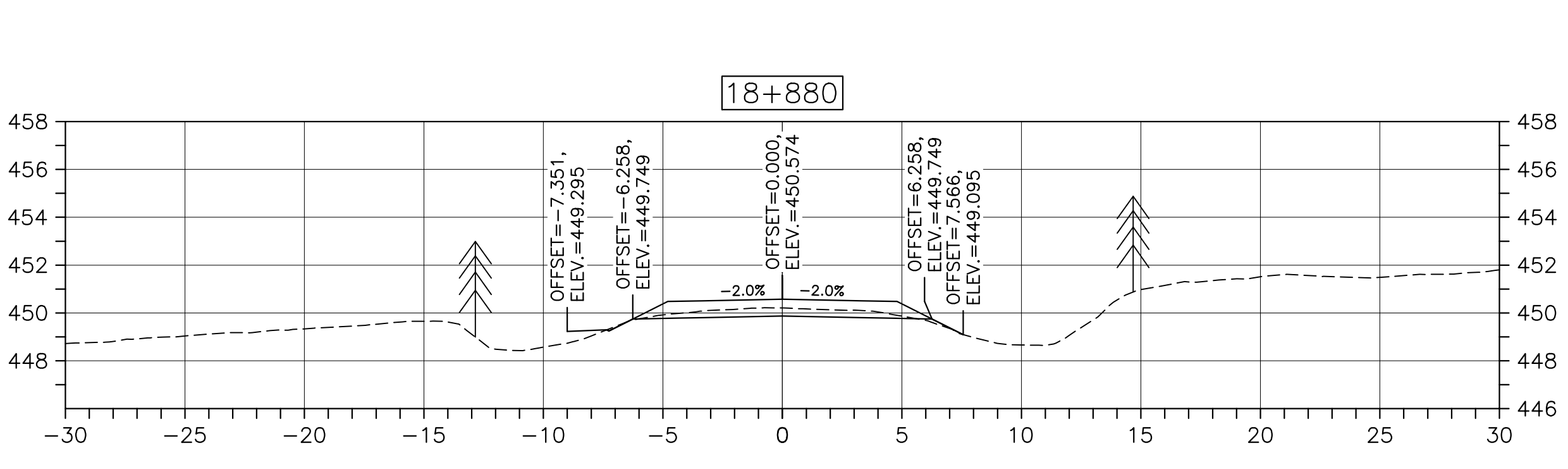
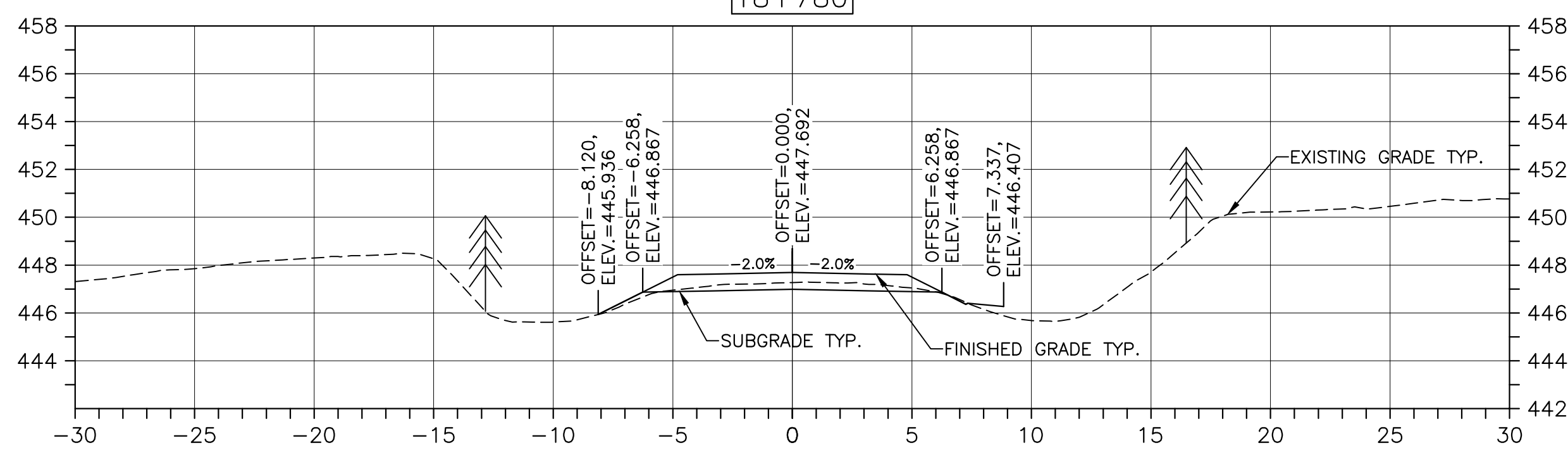
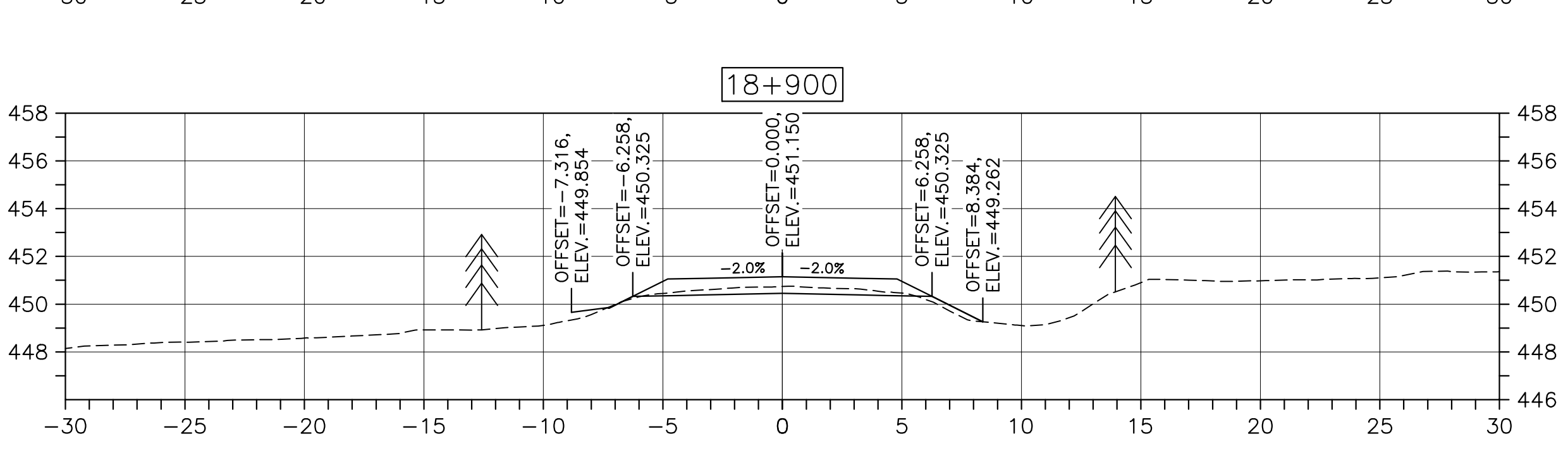
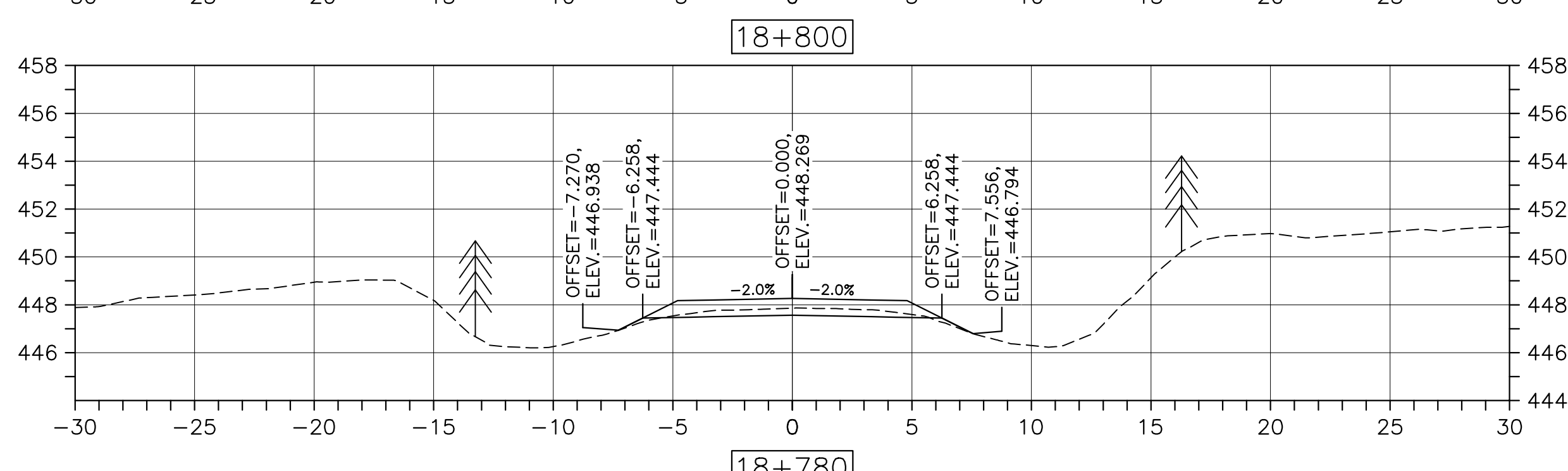
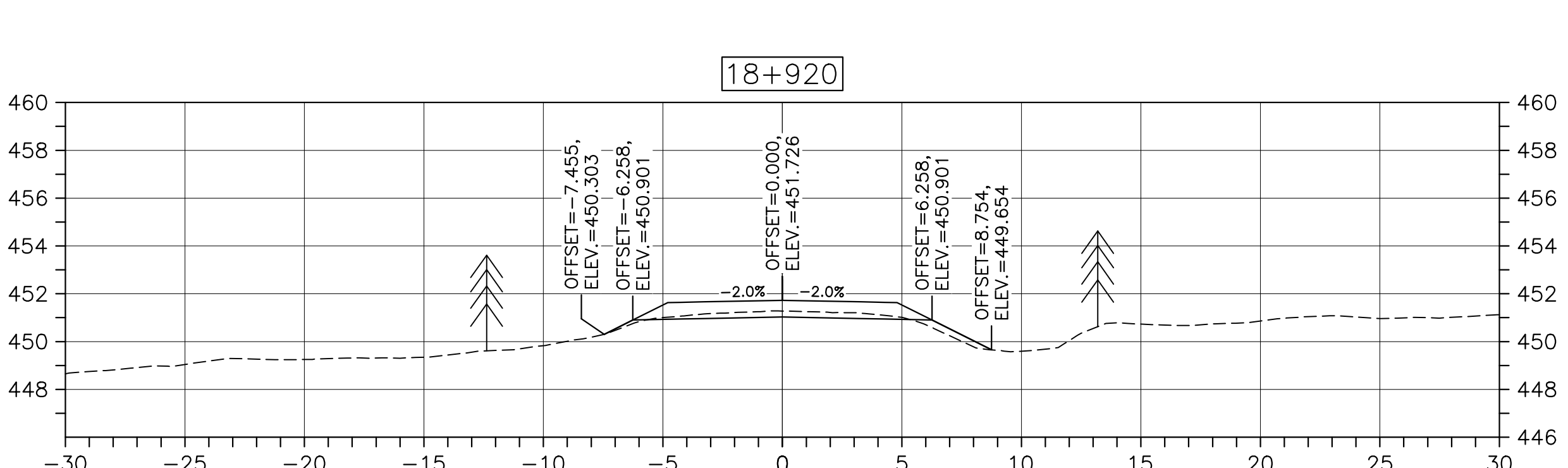
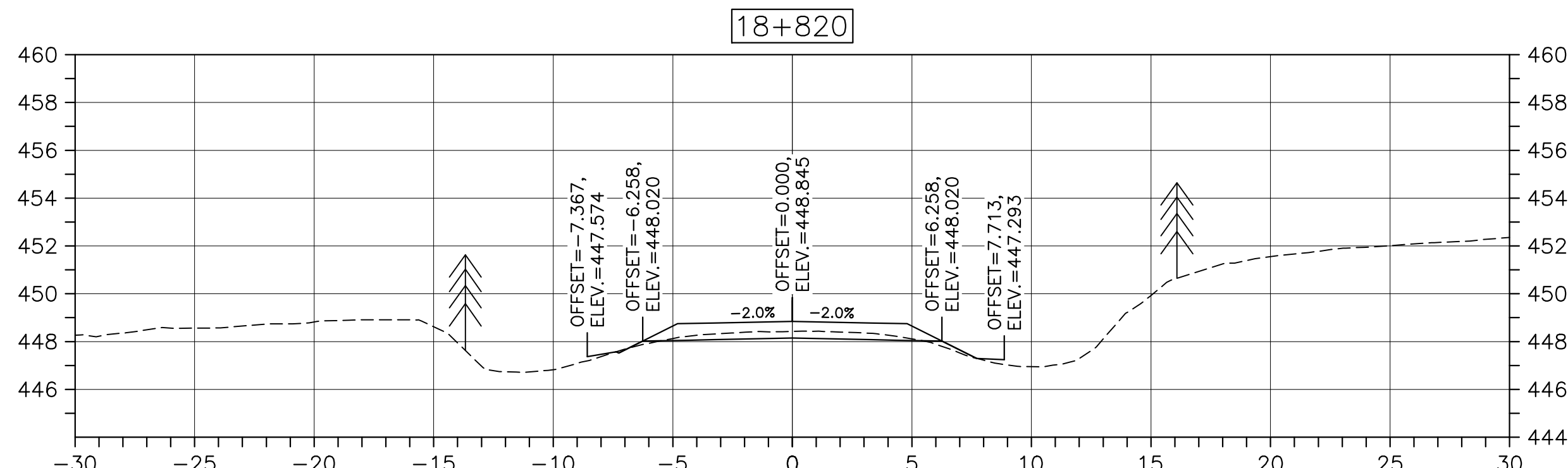
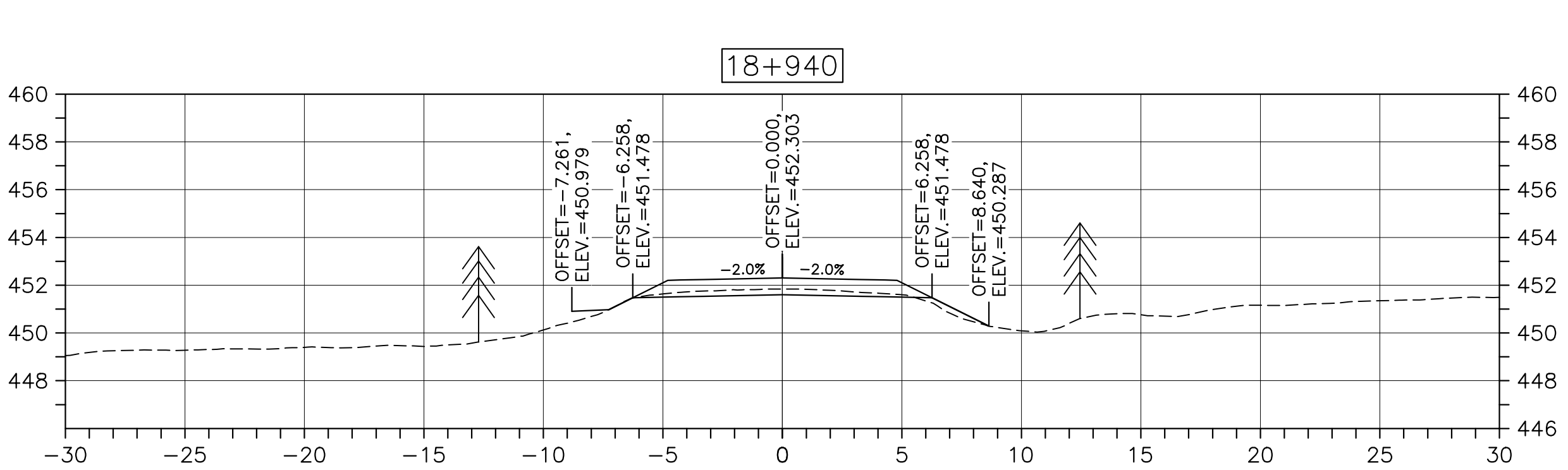
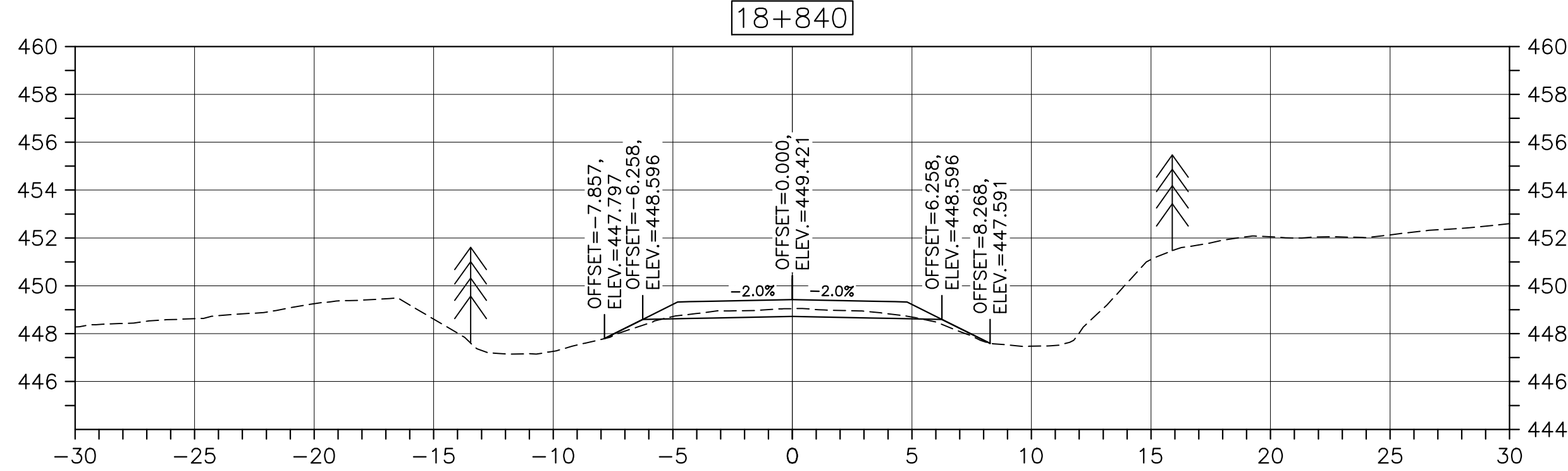
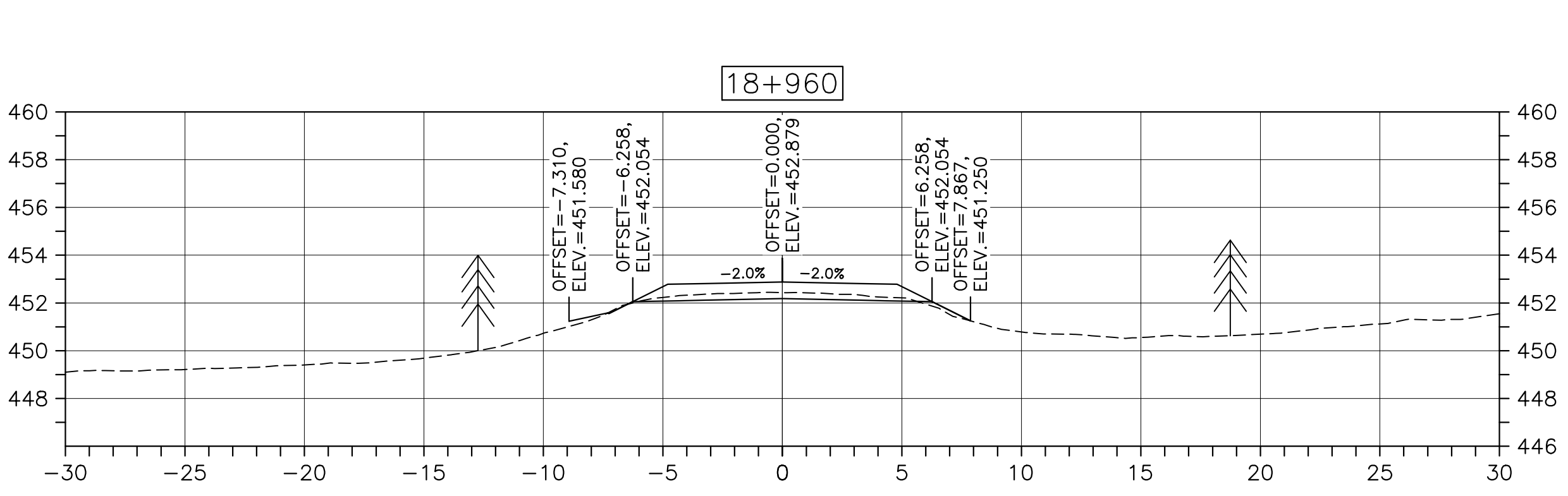
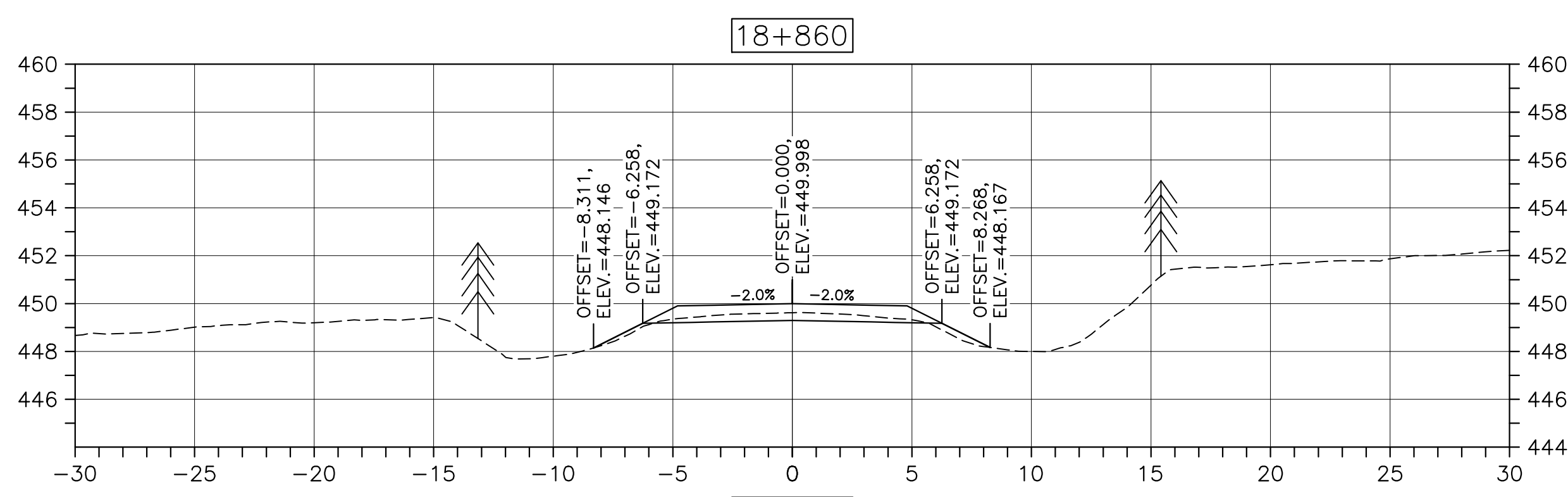
DESIGN SECTIONS

designed DSC	conçu
date FEB. 20, 2017	
drawn JLD	dessiné
date FEB. 20, 2017	
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Tender <i>Stantec</i>	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

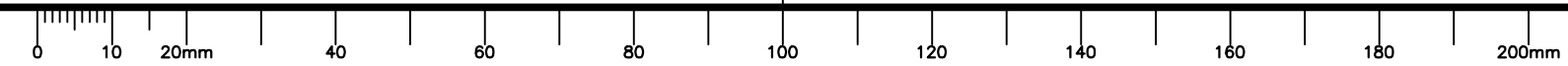
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C-54

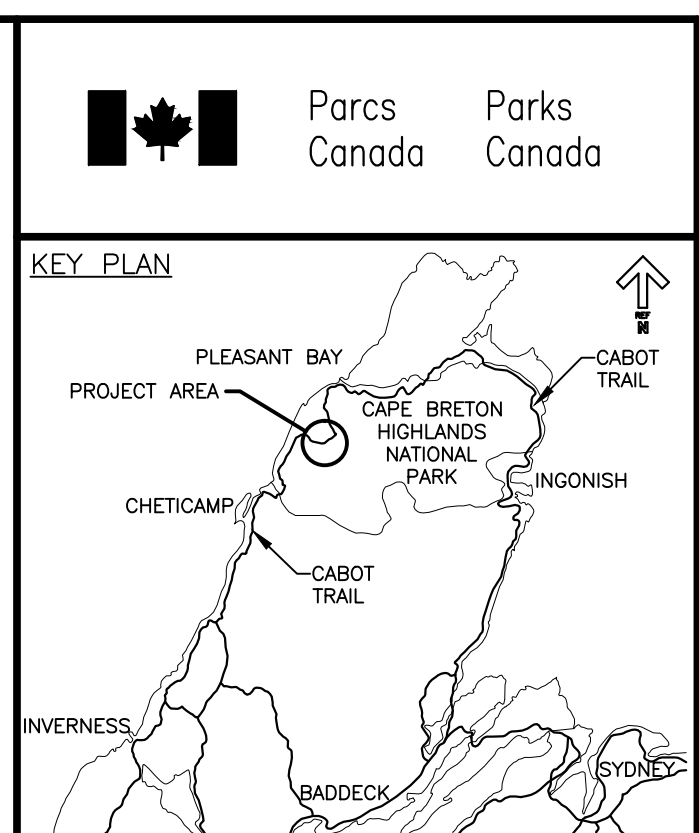
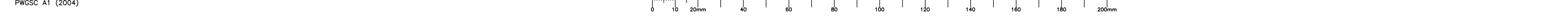
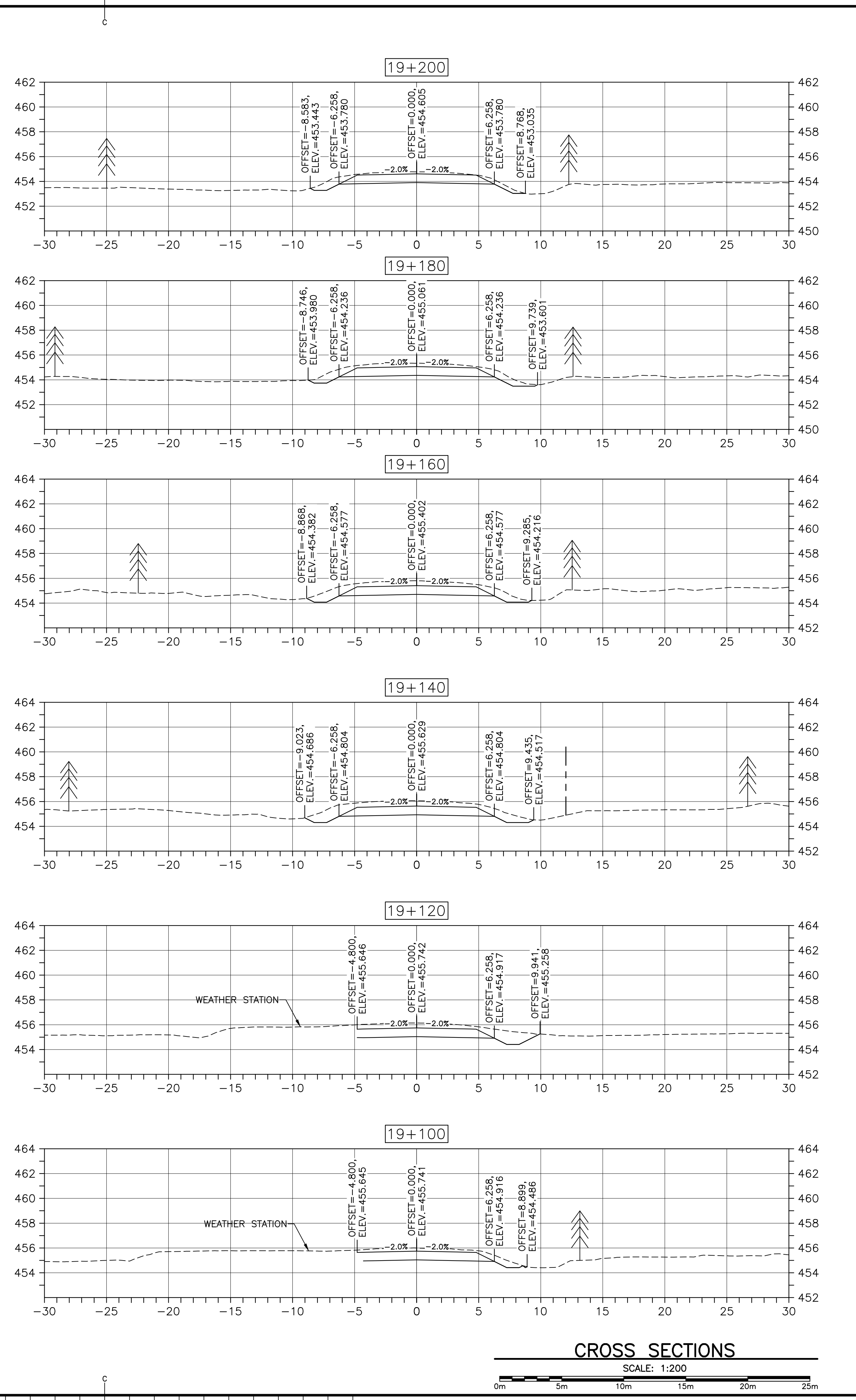
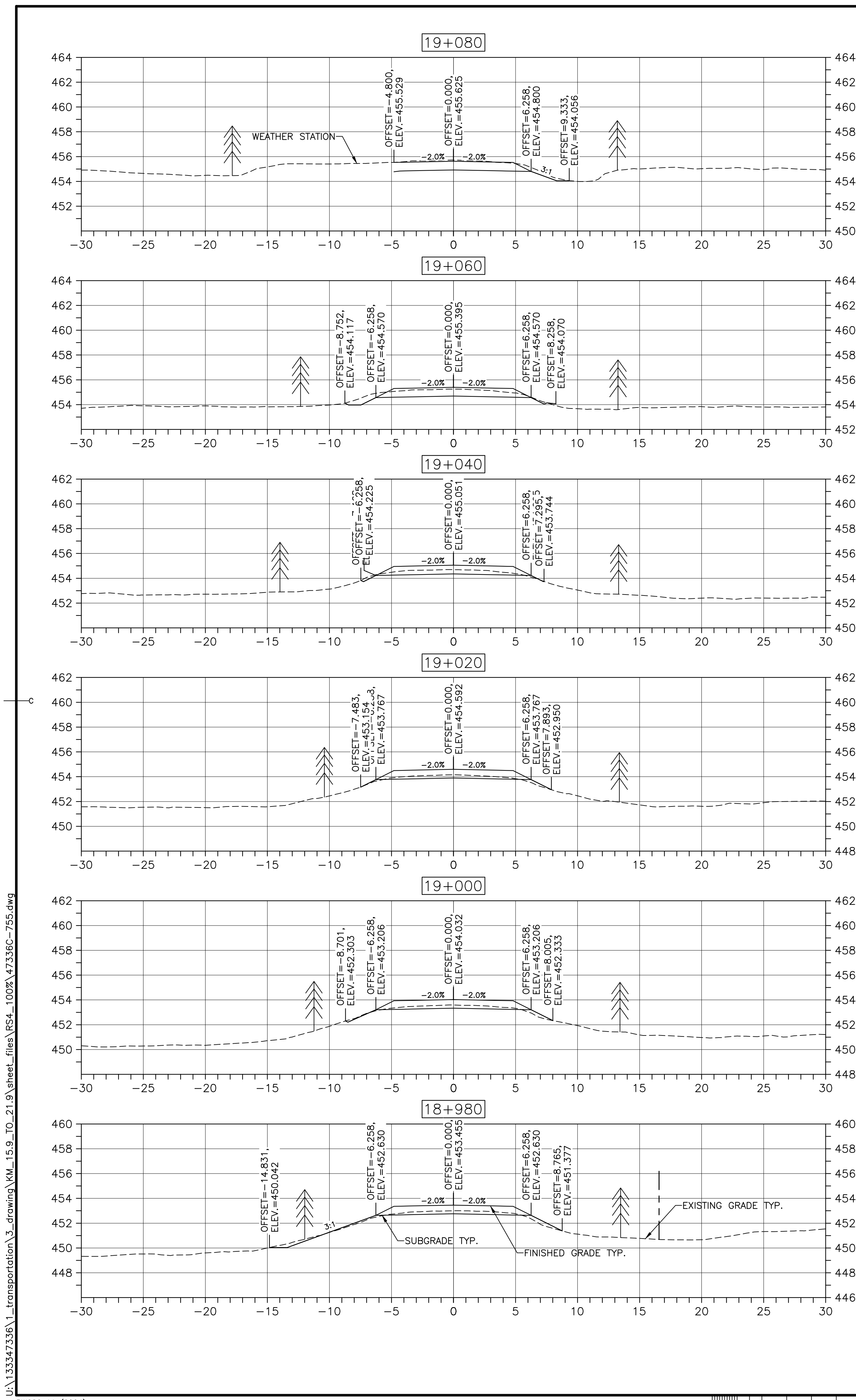
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LEGEND:
 - EXISTING TREELINE
 - CLEARING LIMIT

0 ISSUED FOR TENDER FEB. 20 2017

revisions

project

**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing

desain

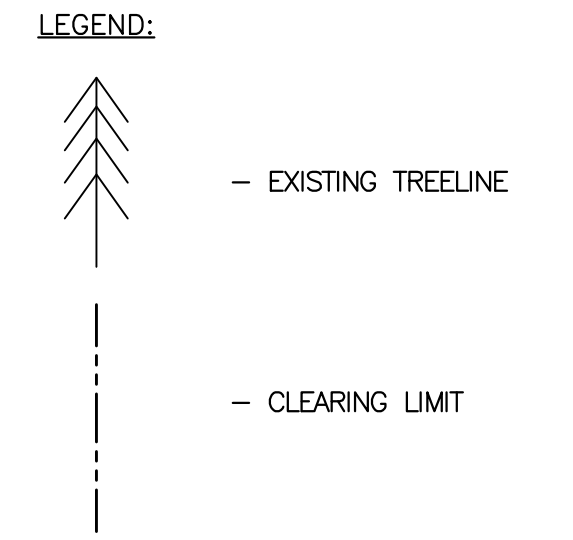
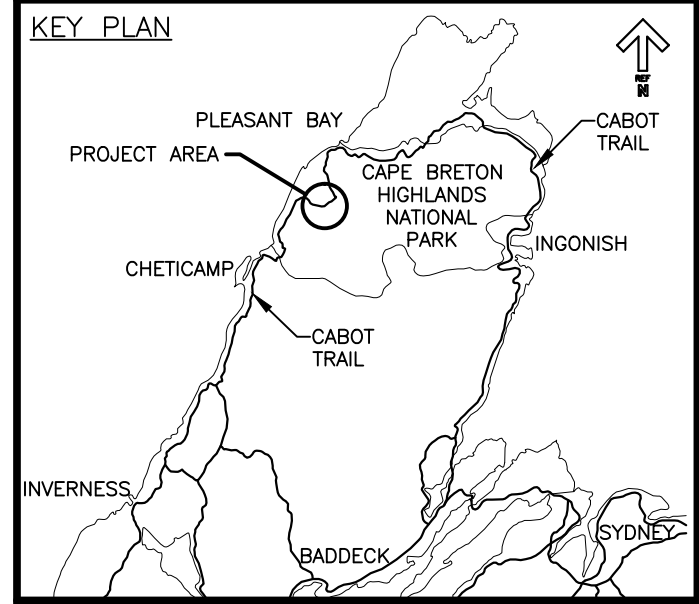
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designed DSC conçu
 date FEB. 20, 2017
 drawn JLD dessiné
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 approved RMB approuvé
 date FEB. 20, 2017
 Tender Soumission
 PCA Project Manager Administrateur de projets PCA
 project number no. du projet

1114

drawing no. no. du dessin
C-55

E-DRM/GDD-E: NOT IN SYSTEM



0	ISSUED FOR TENDER	FEB. 20 2017
revisions		date

**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

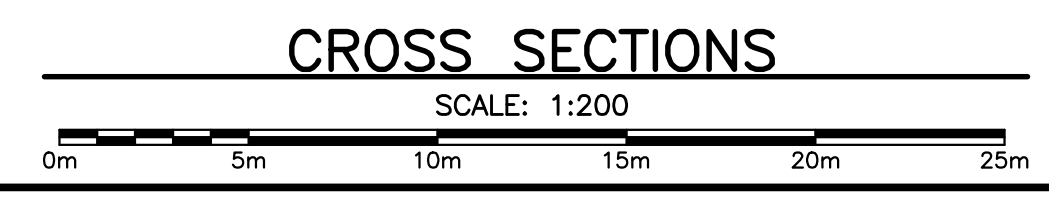
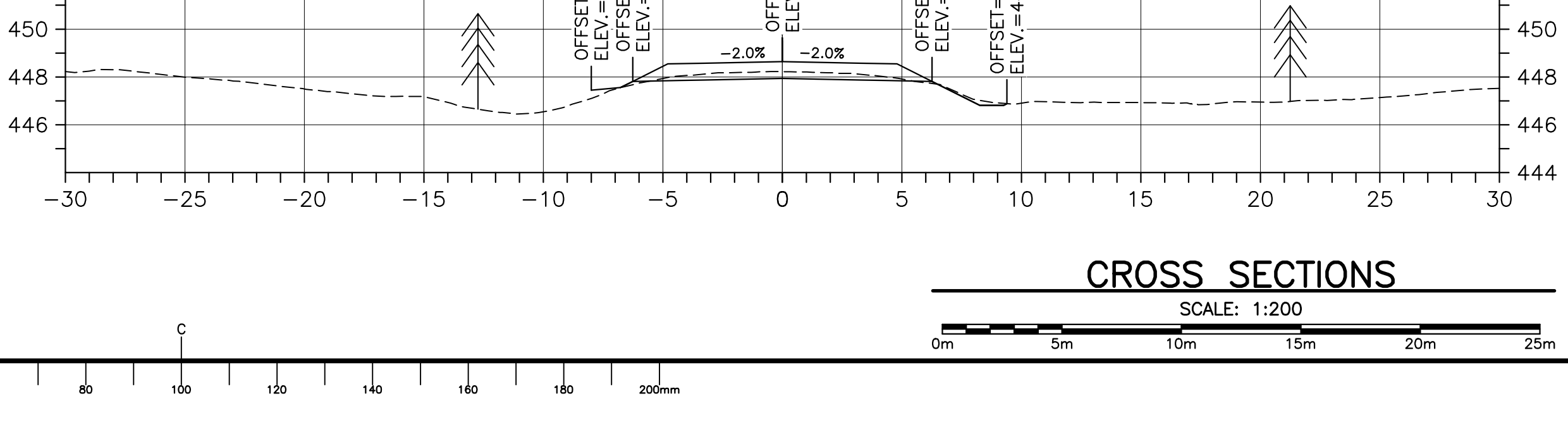
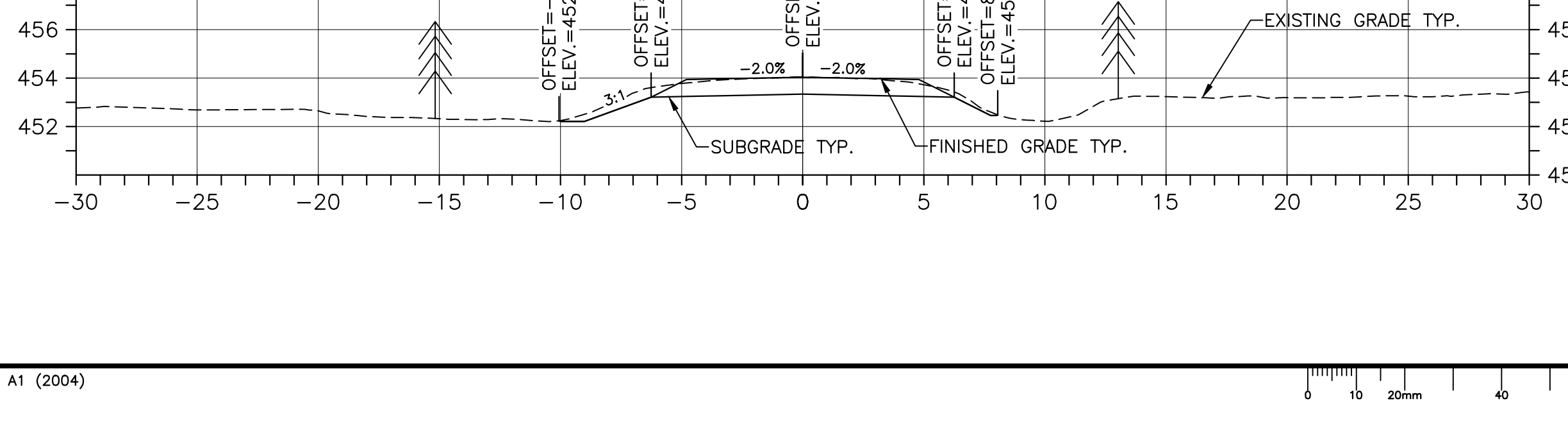
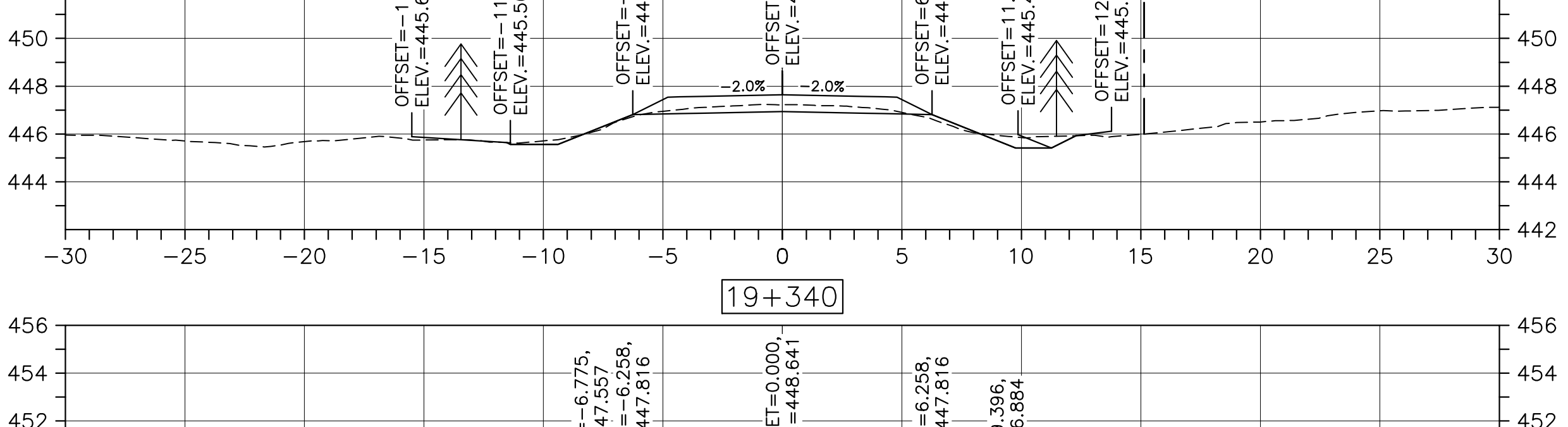
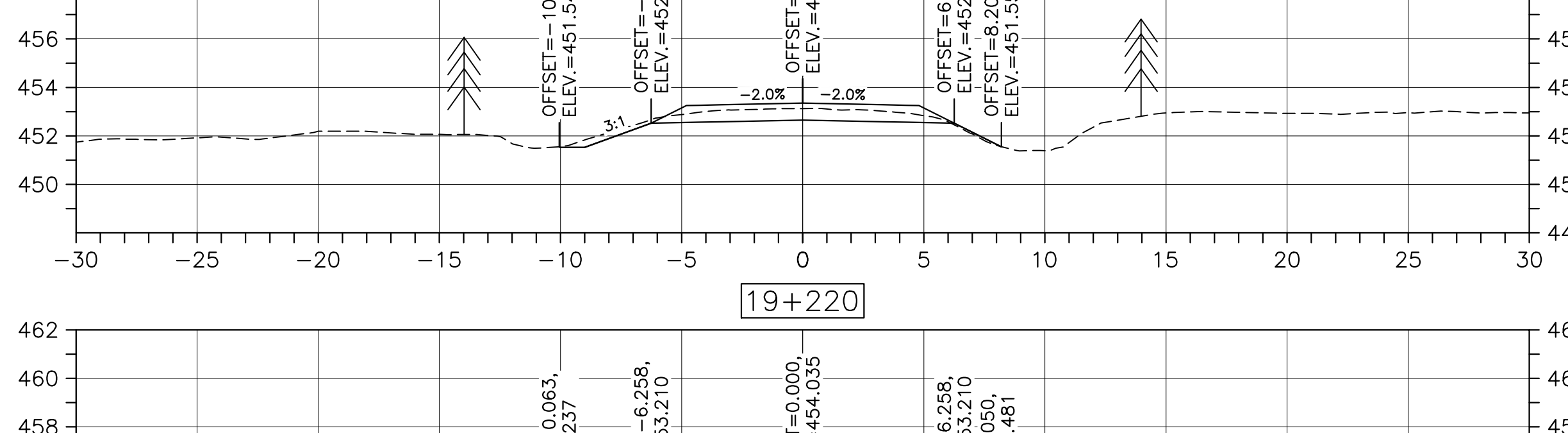
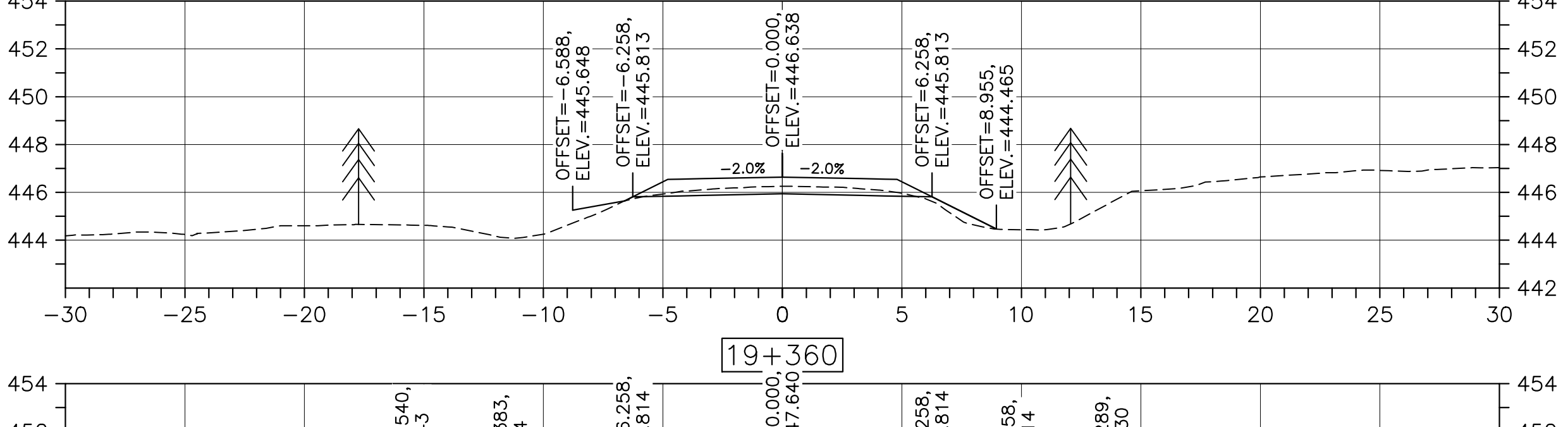
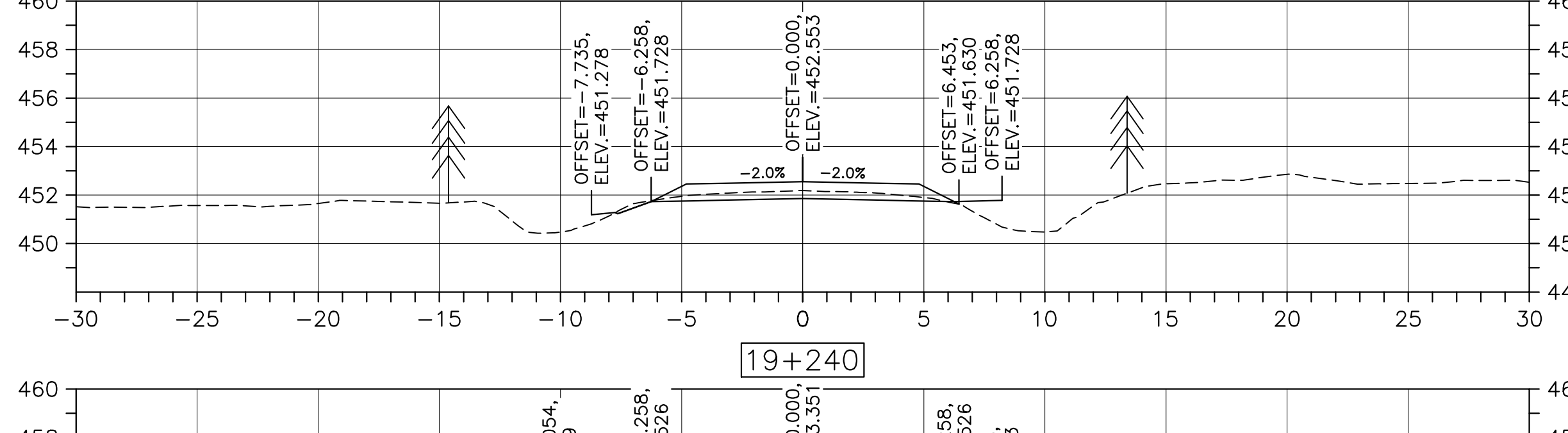
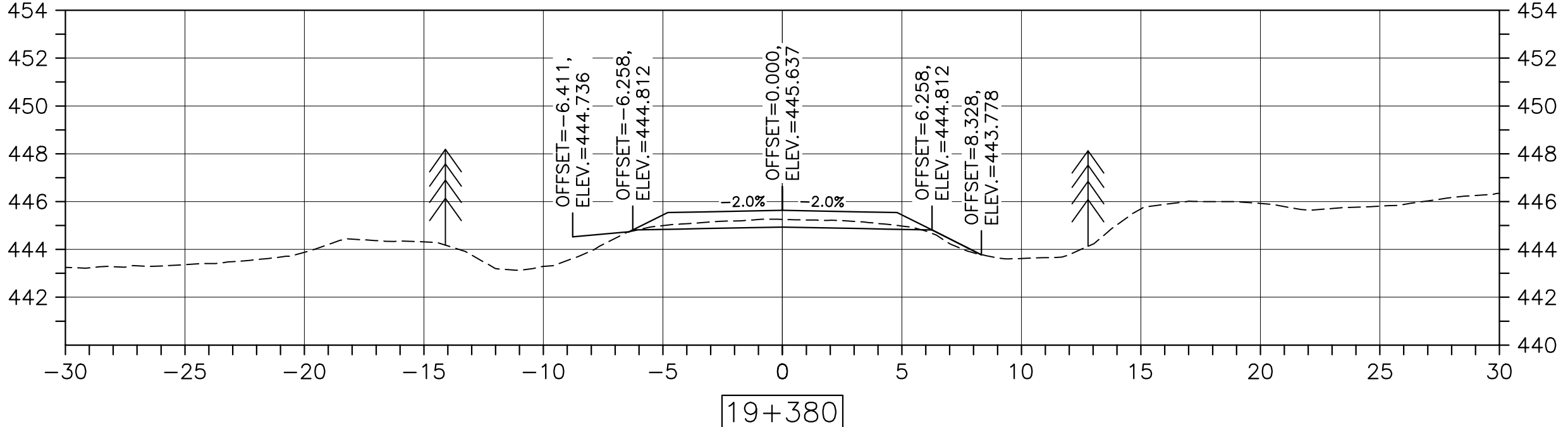
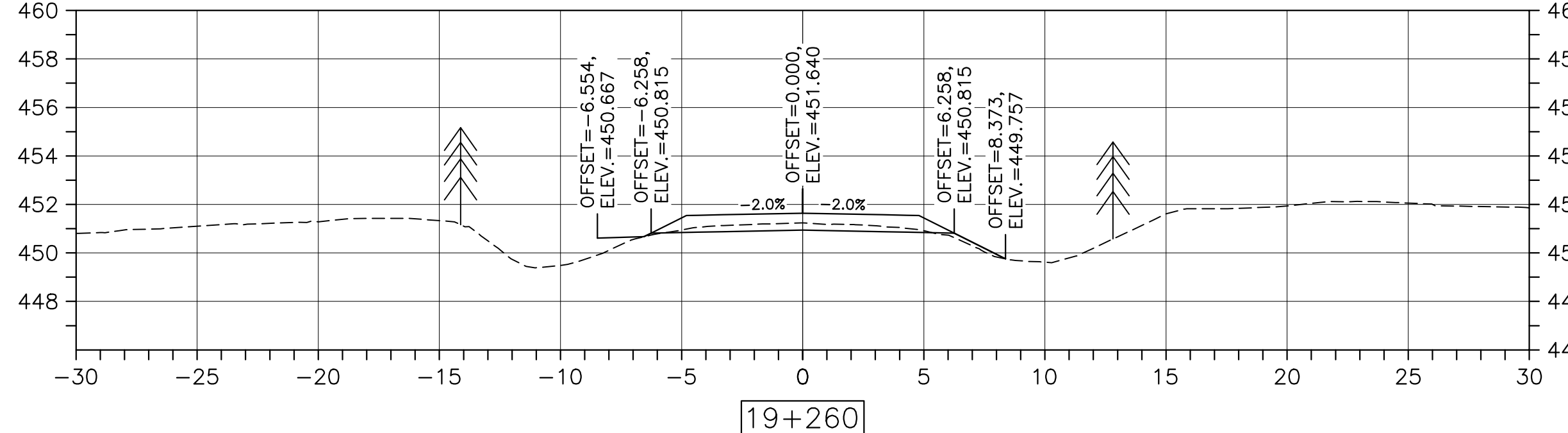
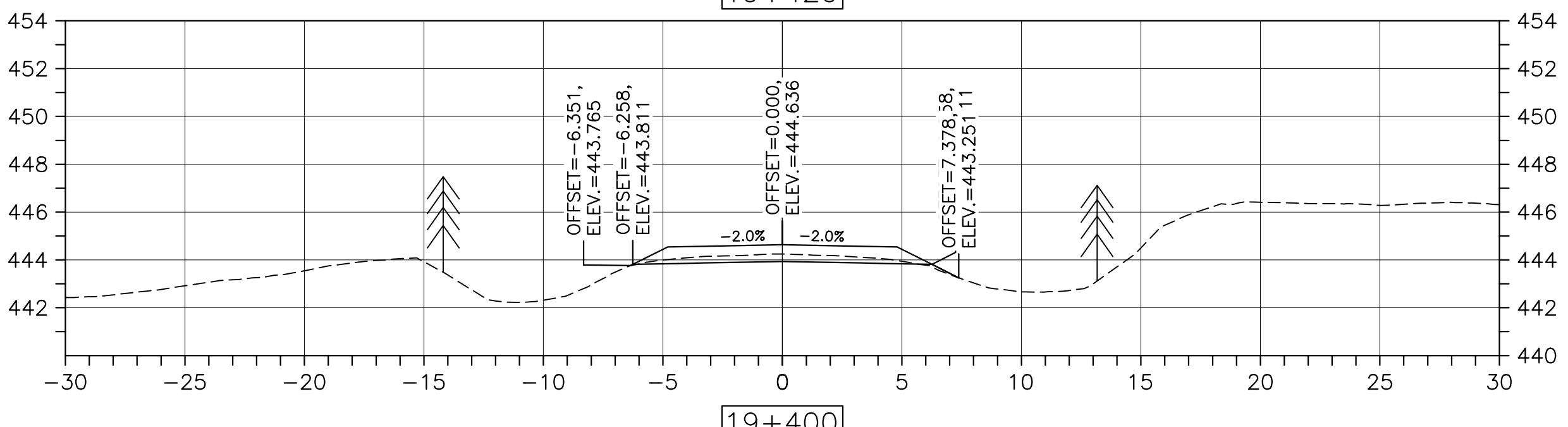
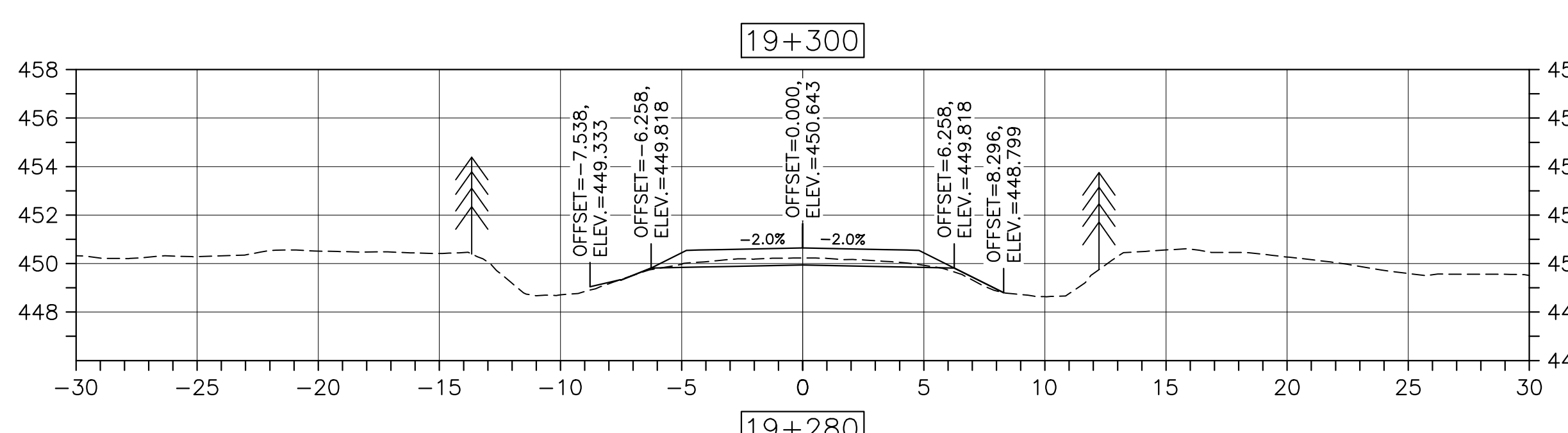
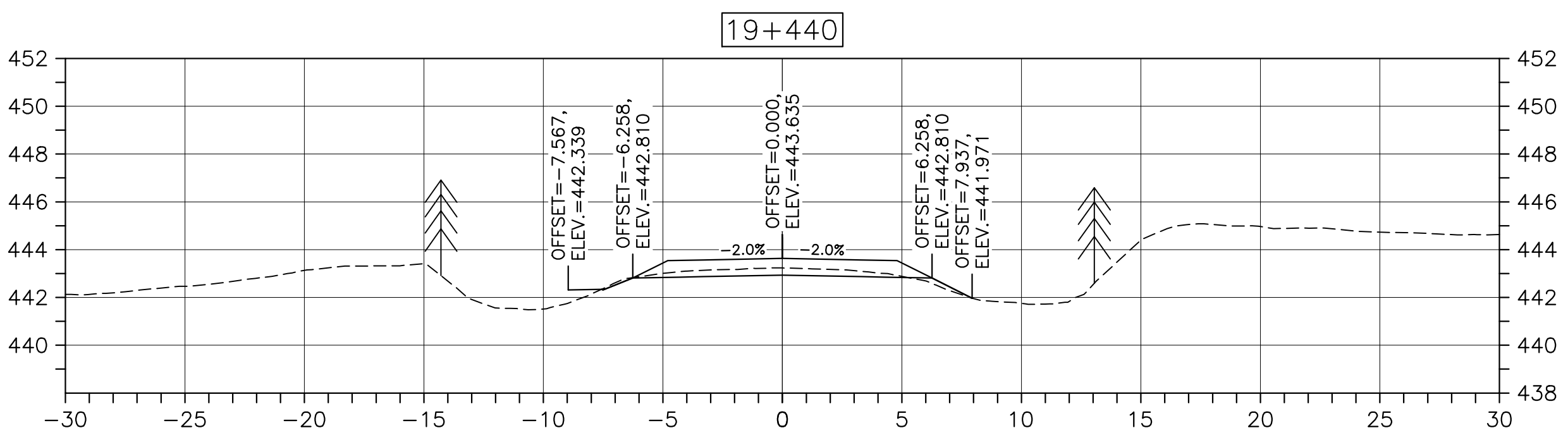
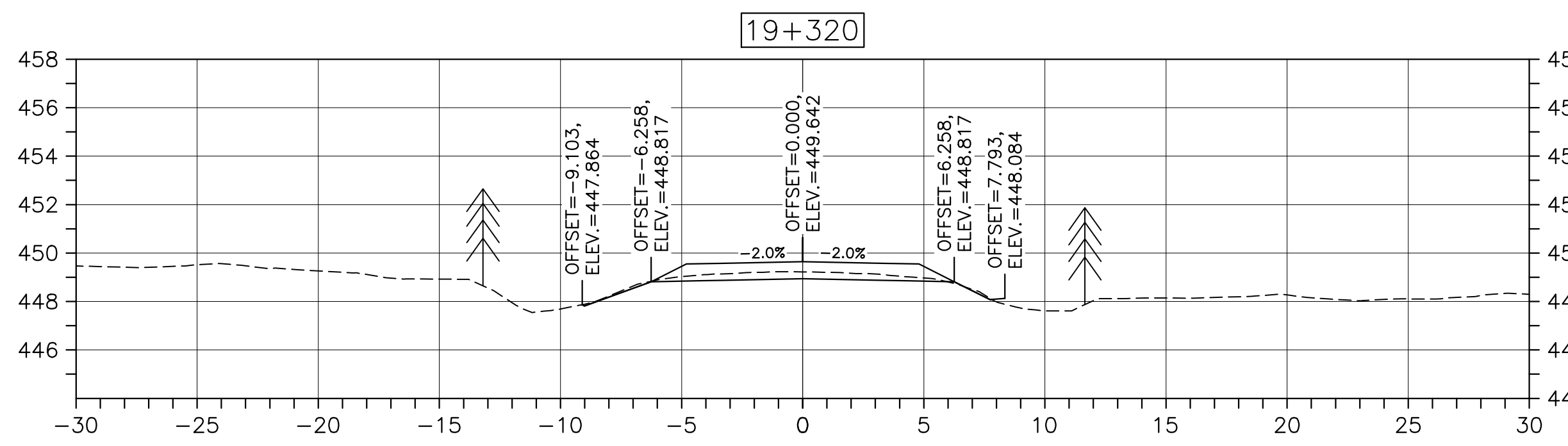
drawing dessein

DESIGN SECTIONS

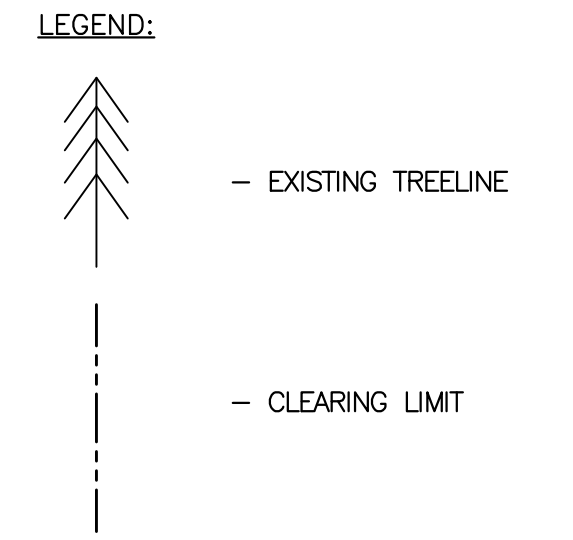
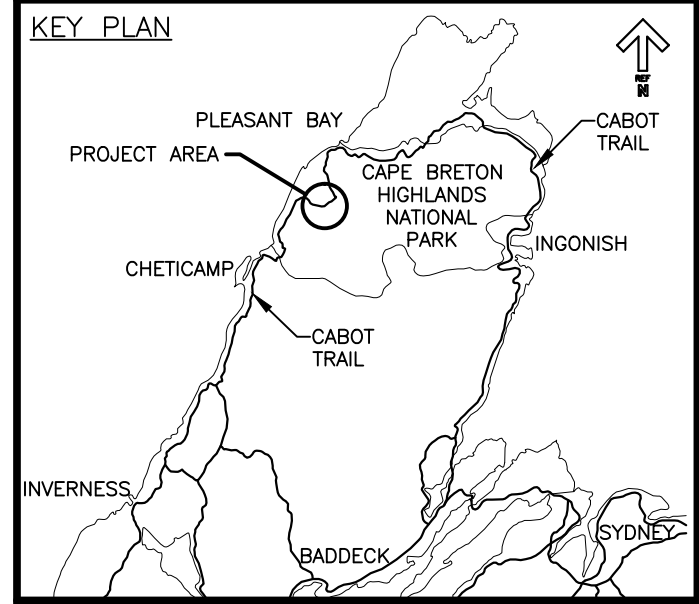
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date FEB. 20, 2017	
drawn JLD	dessiné
date FEB. 20, 2017	
approved RMB	approuvé
date FEB. 20, 2017	
Tender <i>JLD</i>	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

1114

drawing no. C-56 no. du dessein



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project
**CABOT TRAIL REHABILITATION
 FRENCH TO MACKENZIE
 KM 15.9 TO 21.9
 CAPE BRETON HIGHLANDS
 NATIONAL PARK**

drawing
 dessin

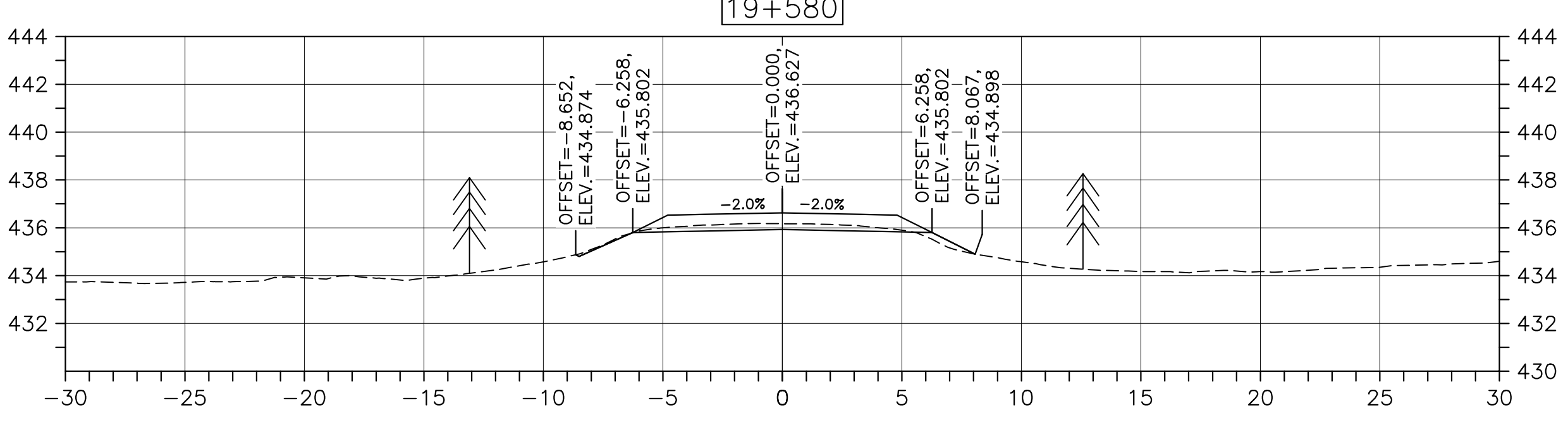
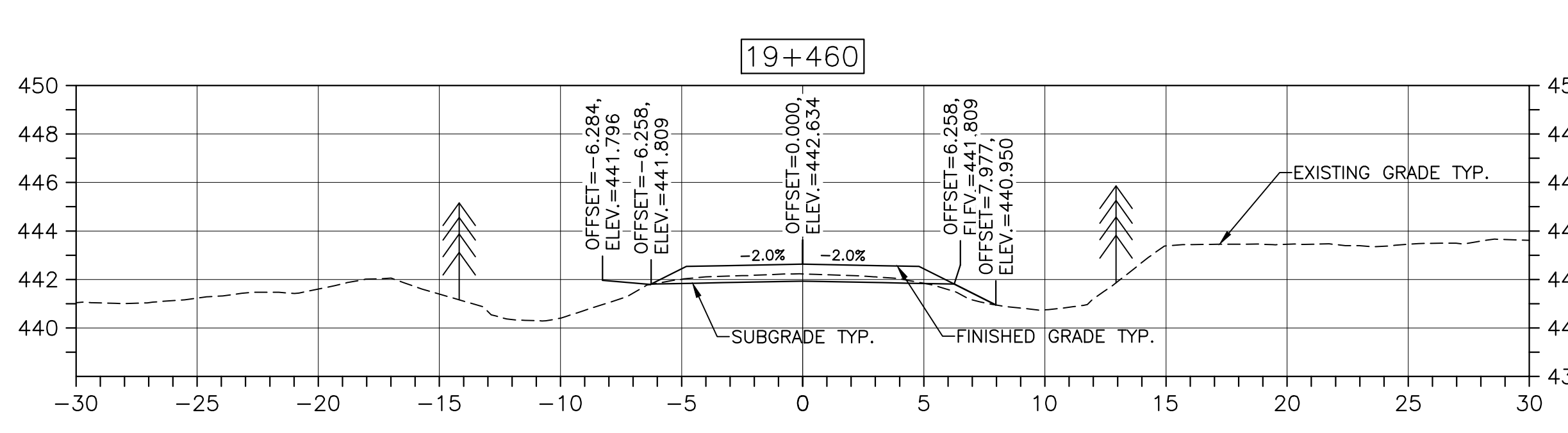
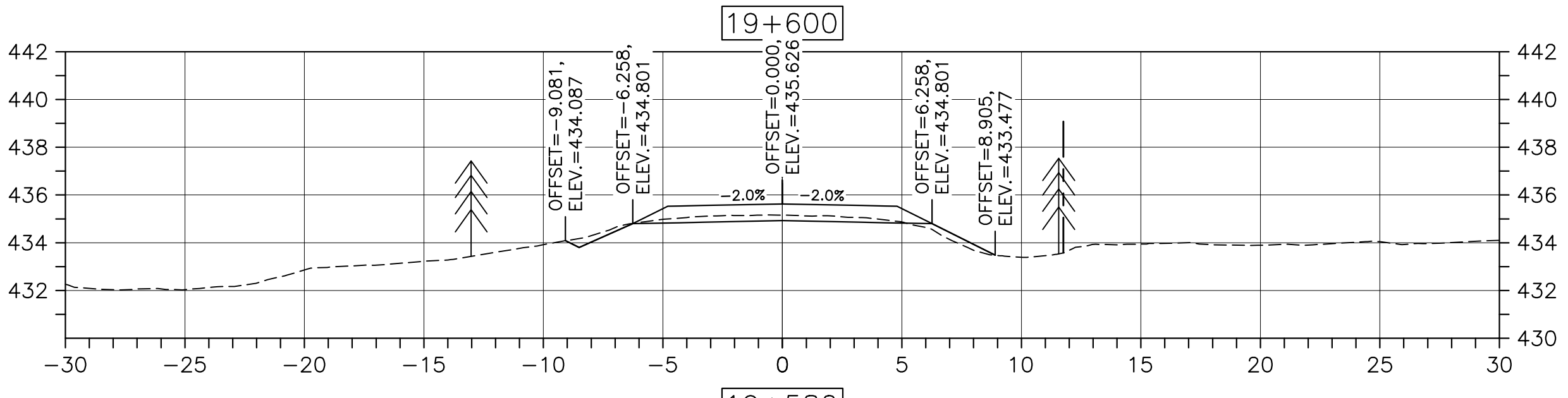
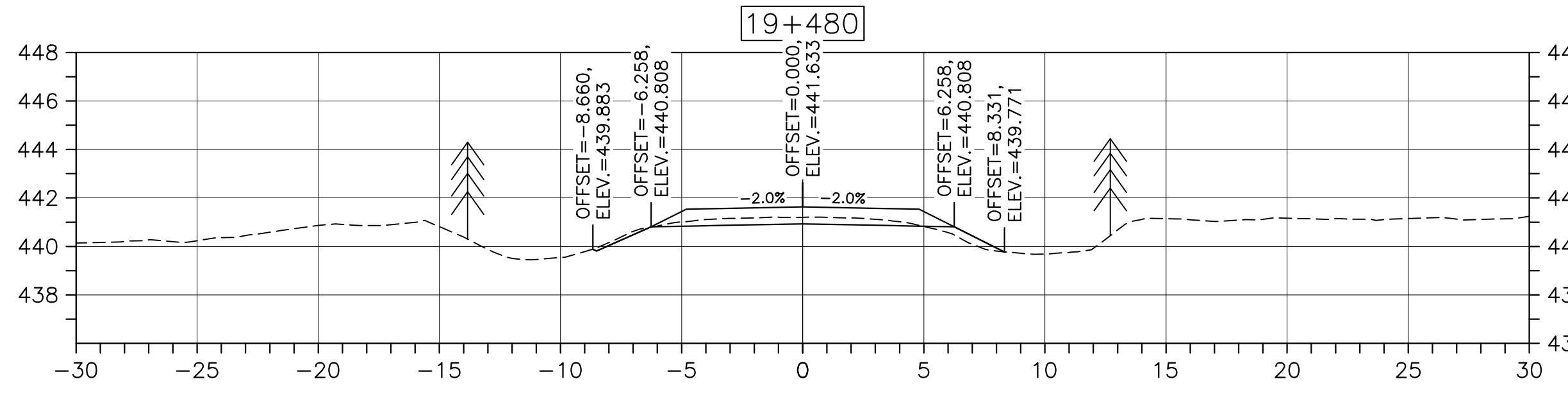
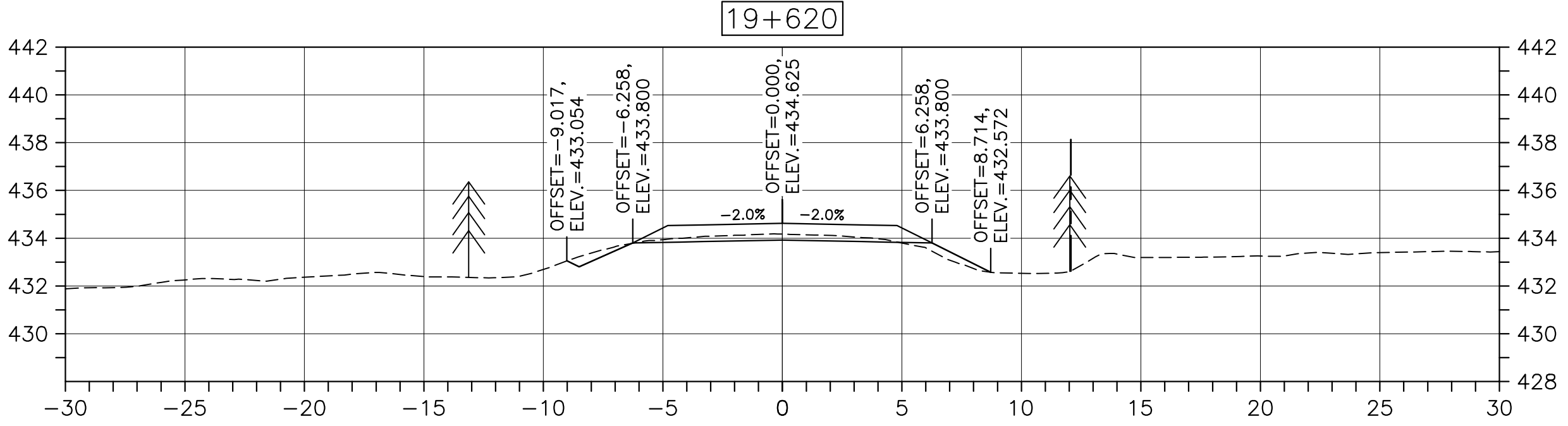
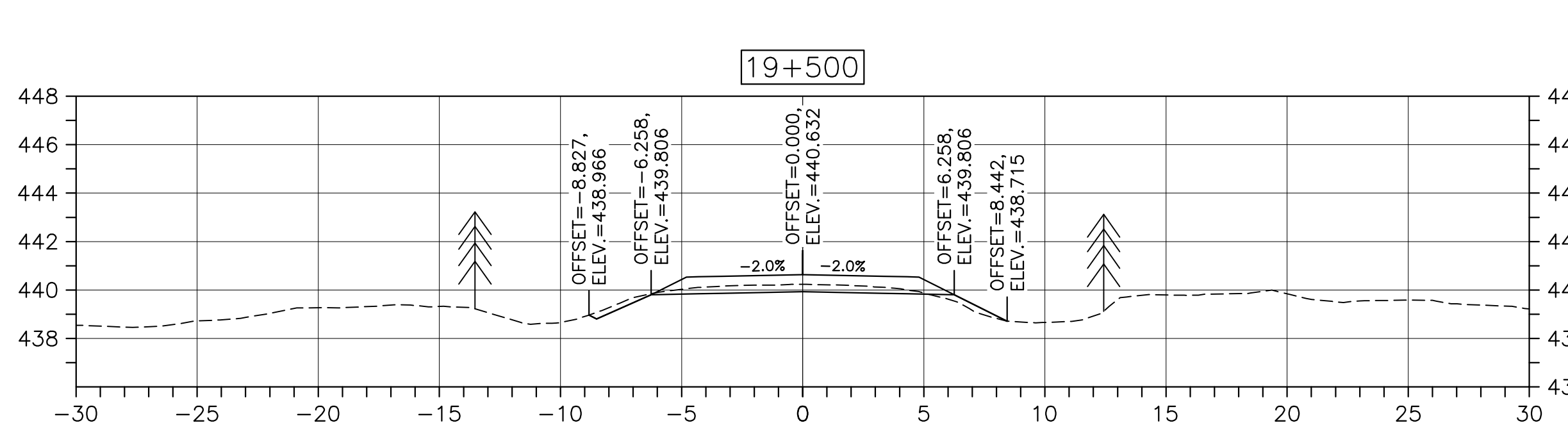
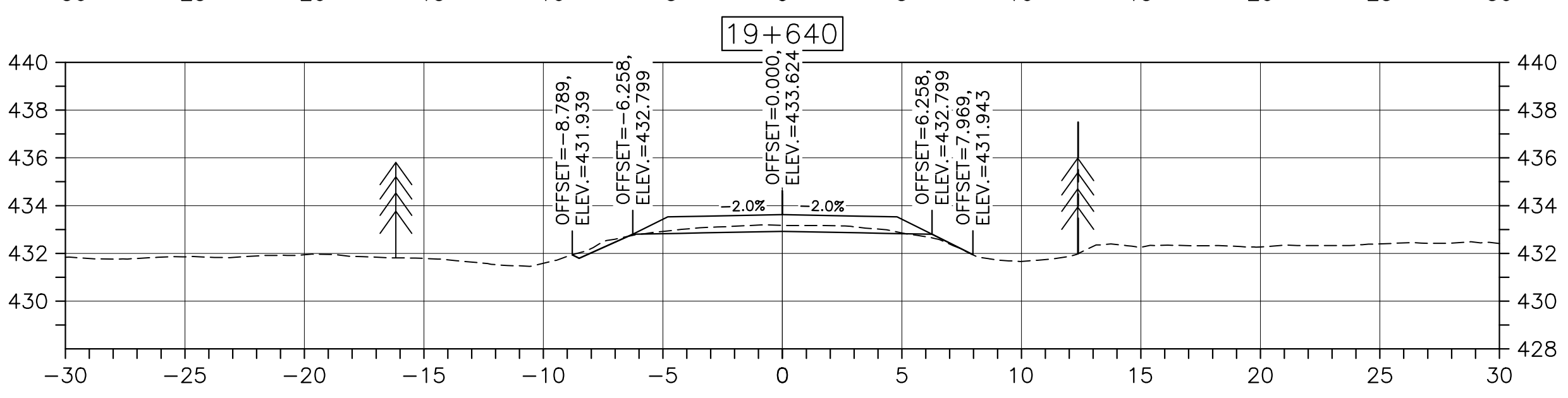
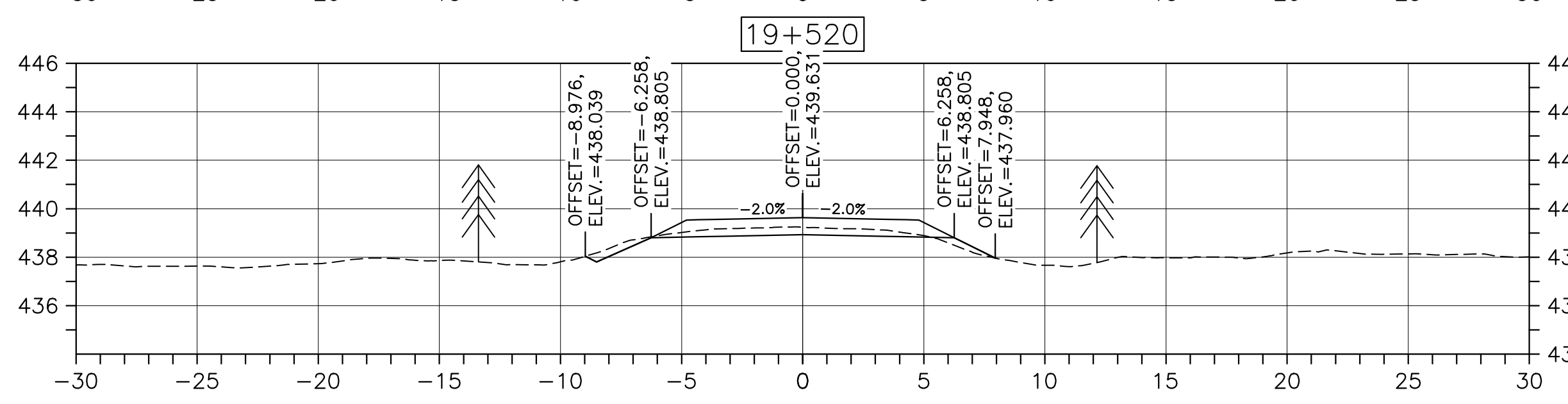
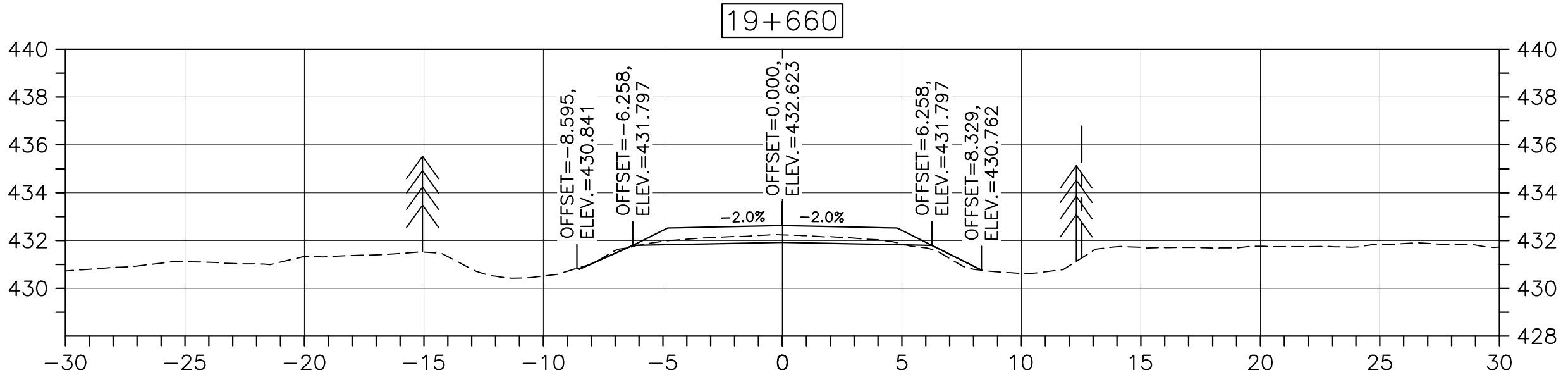
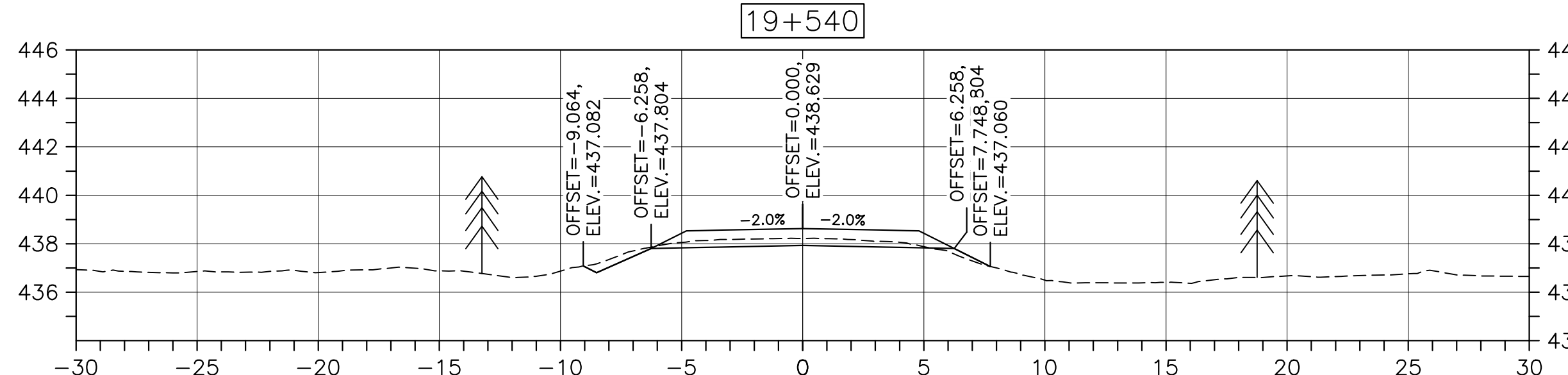
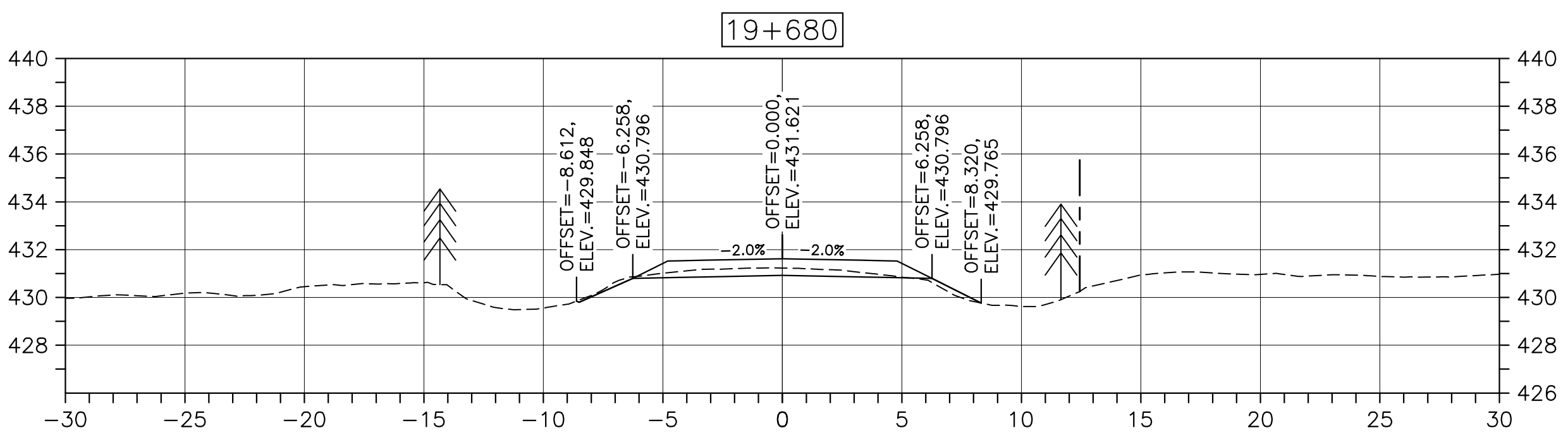
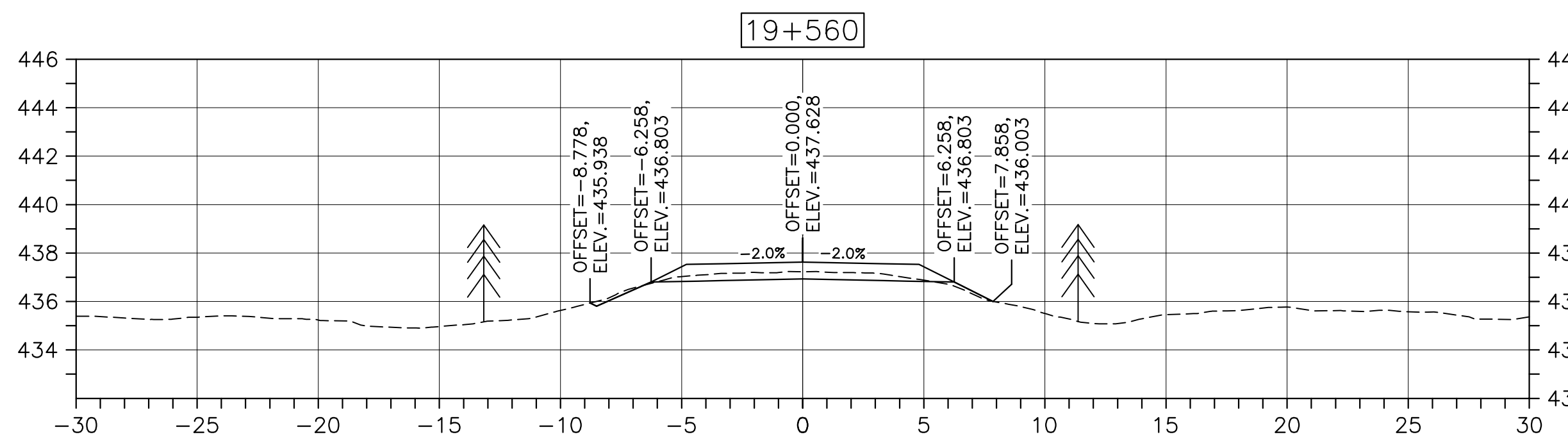
DESIGN SECTIONS

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date	FEB. 20, 2017	
drawn	JLD	dessiné
date	FEB. 20, 2017	
approved	RMB	approuvé
date	FEB. 20, 2017	
Tender	<i>[Signature]</i>	Soumission
PCA Project Manager		FEB. 20, 2017
		Administrateur de projets PCA
project number		no. du projet

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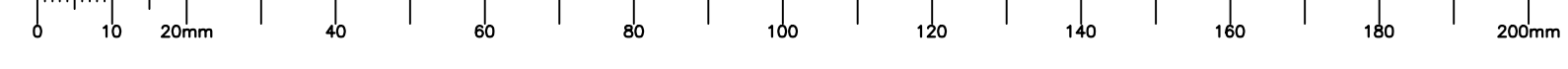
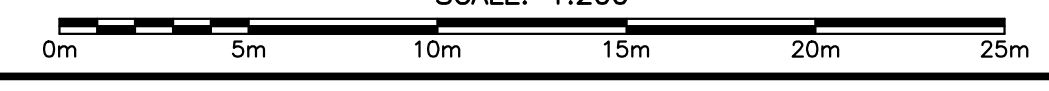
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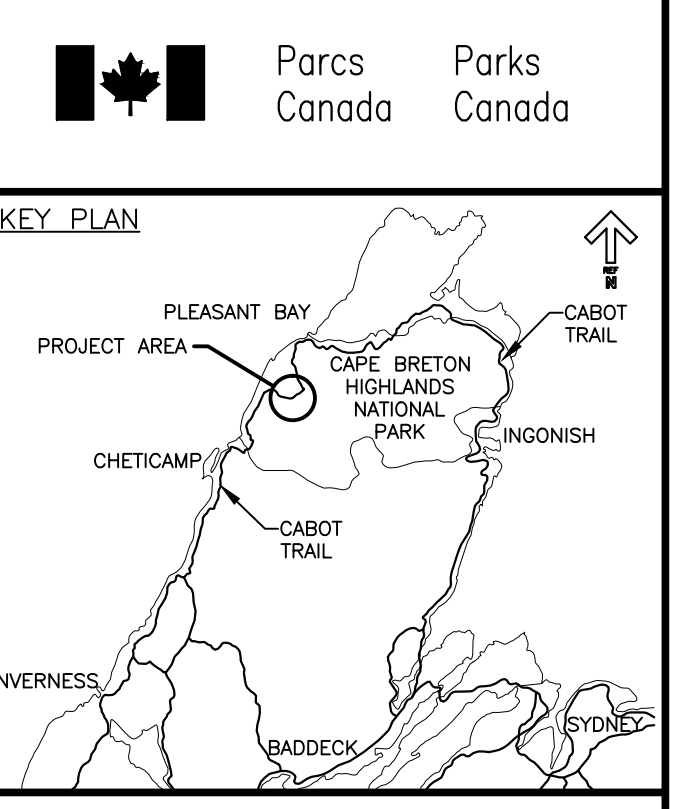
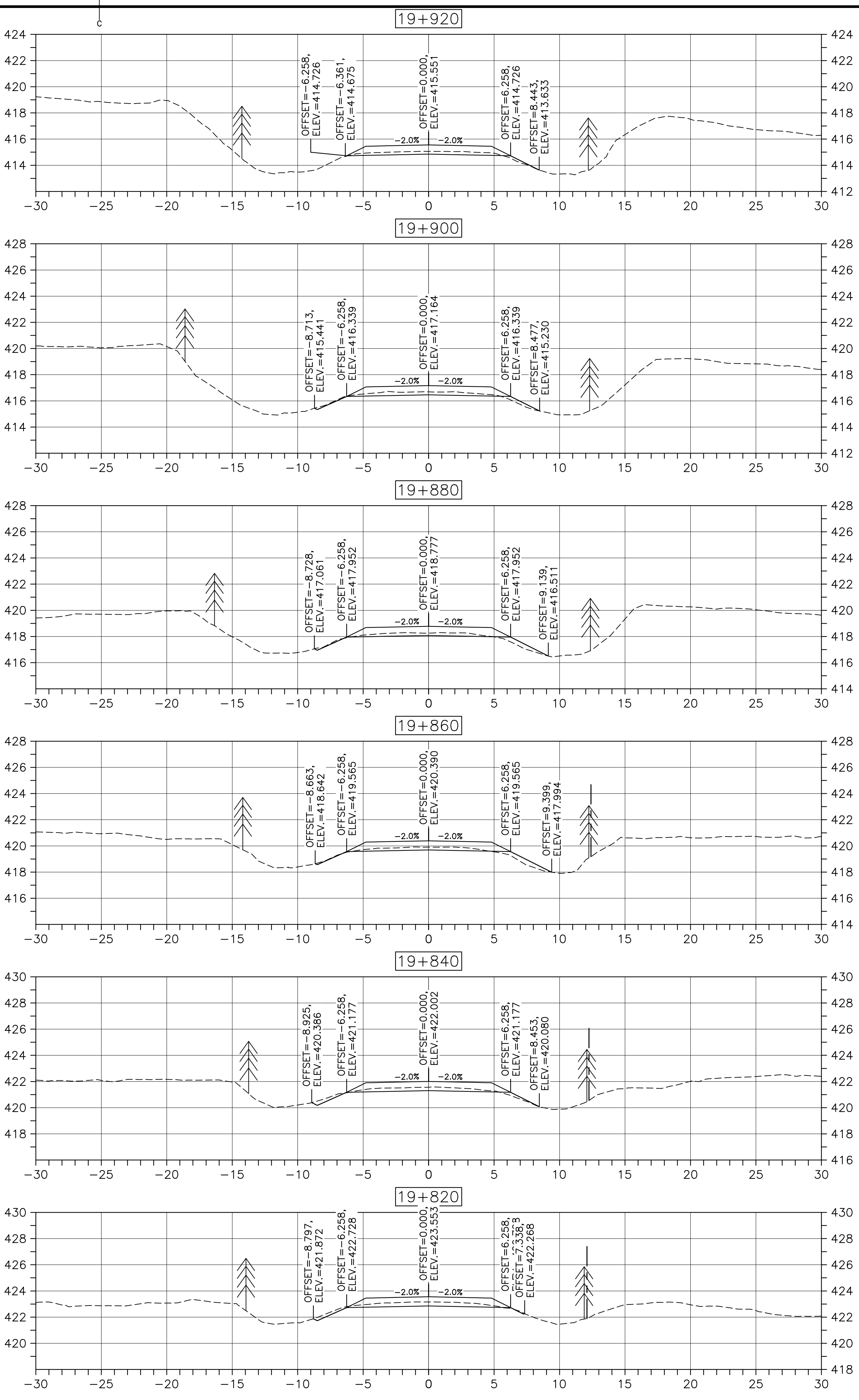
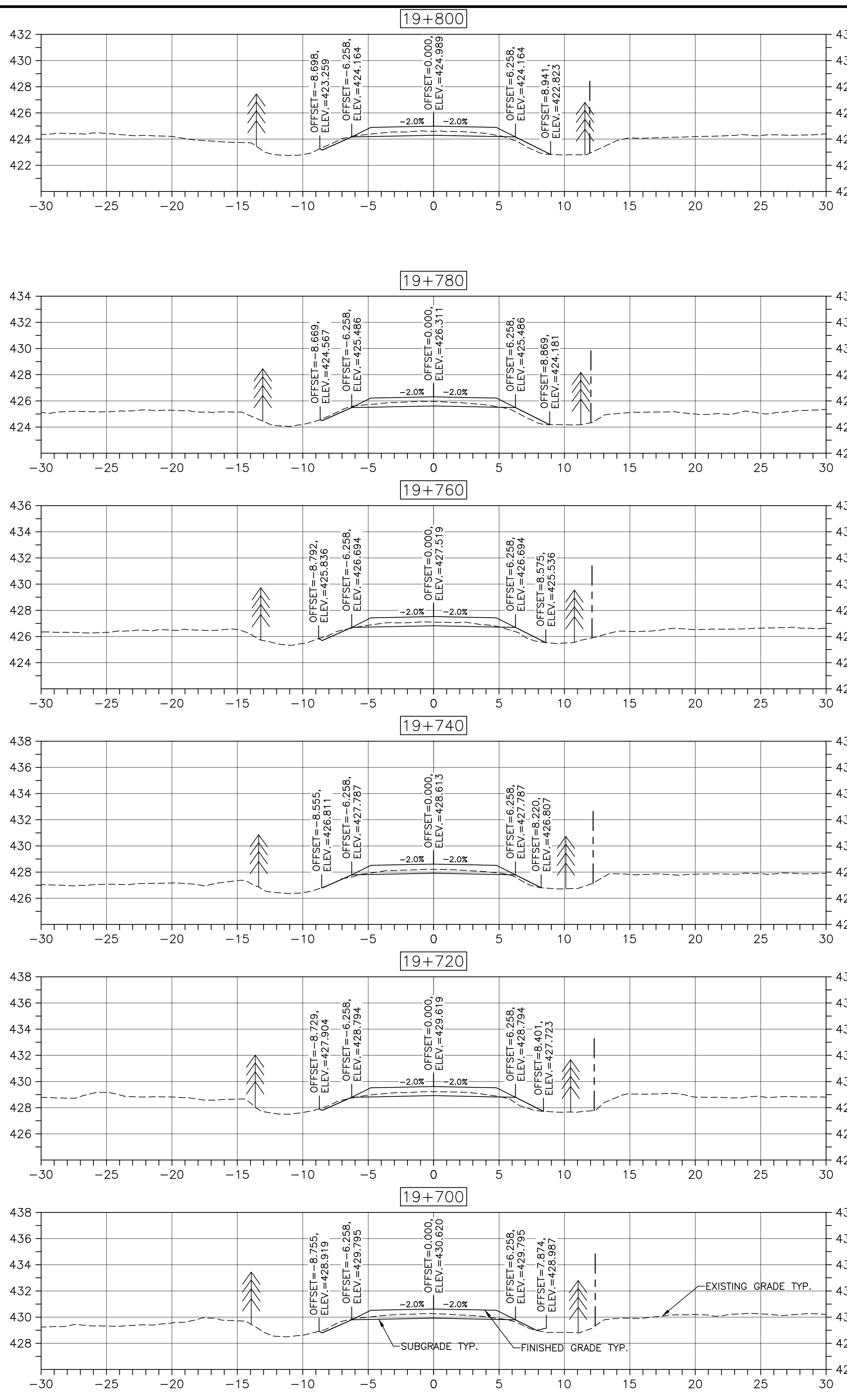
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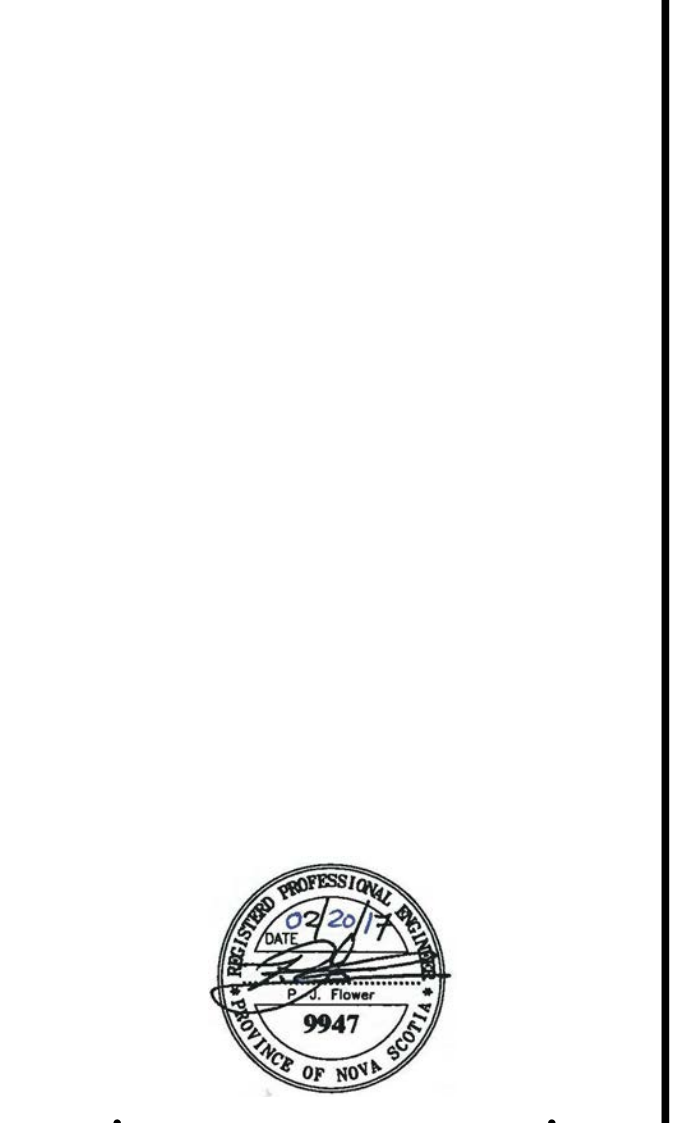


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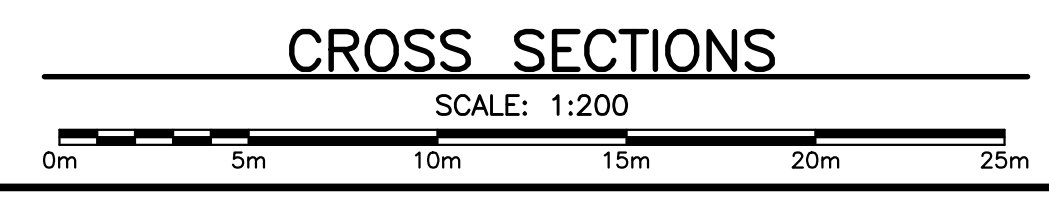


LEGEND:
 - EXISTING TREELINE
 - CLEARING LIMIT

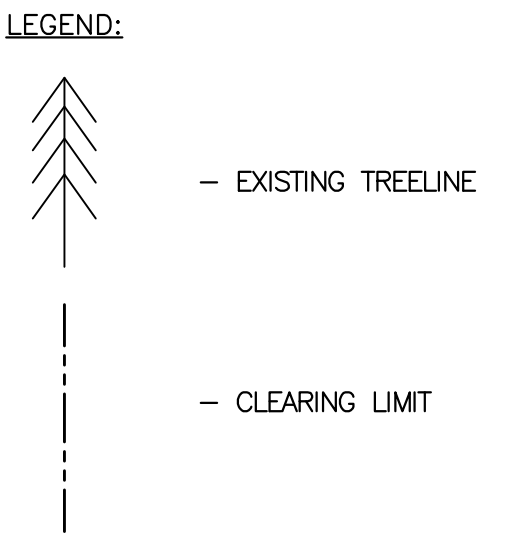
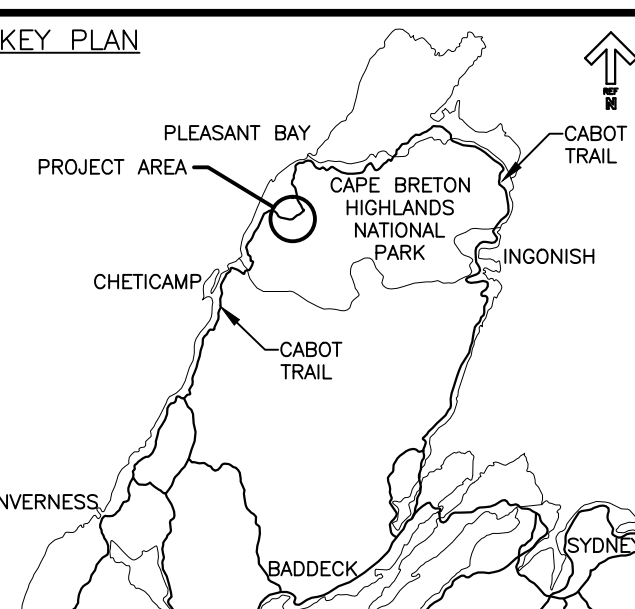
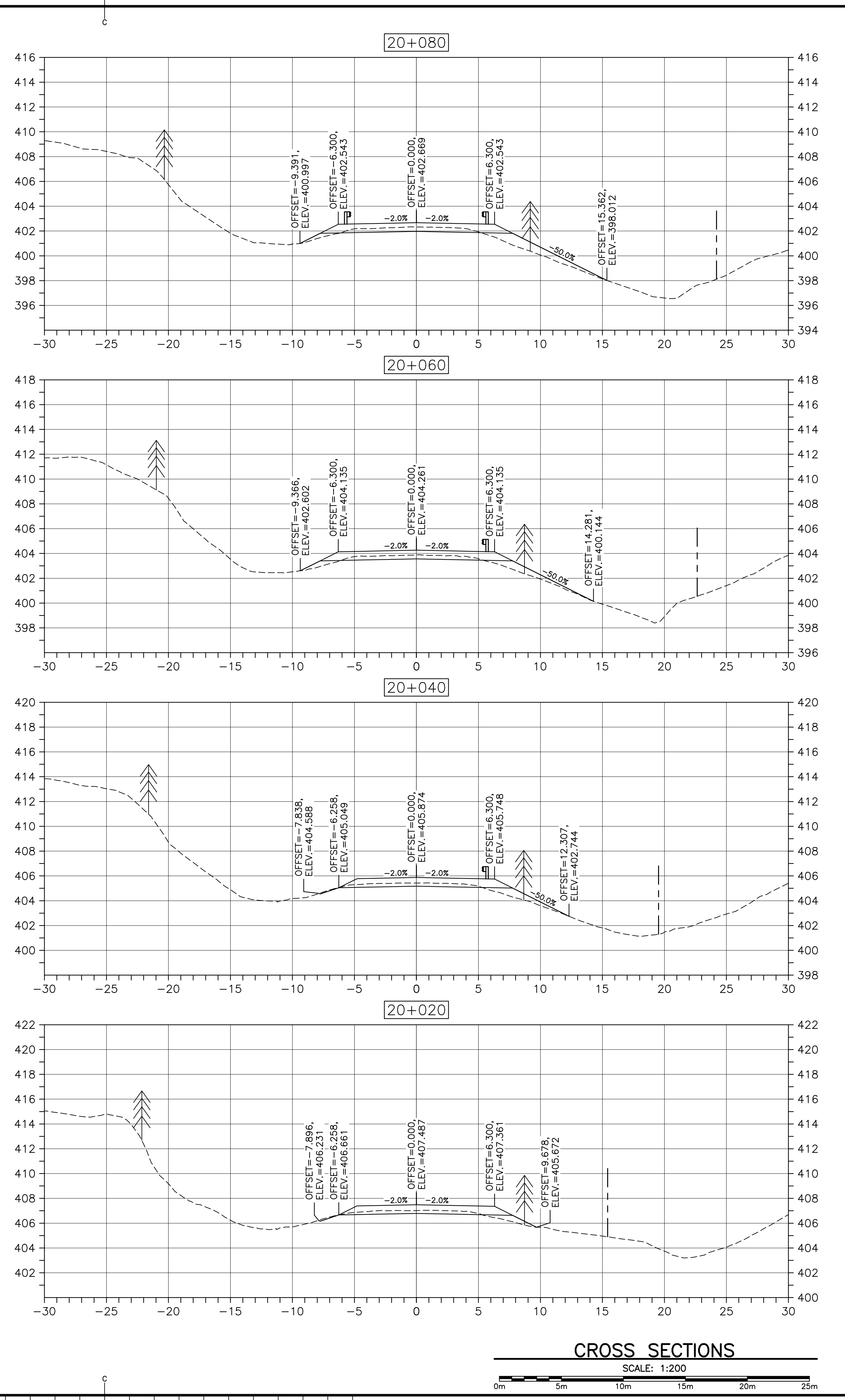
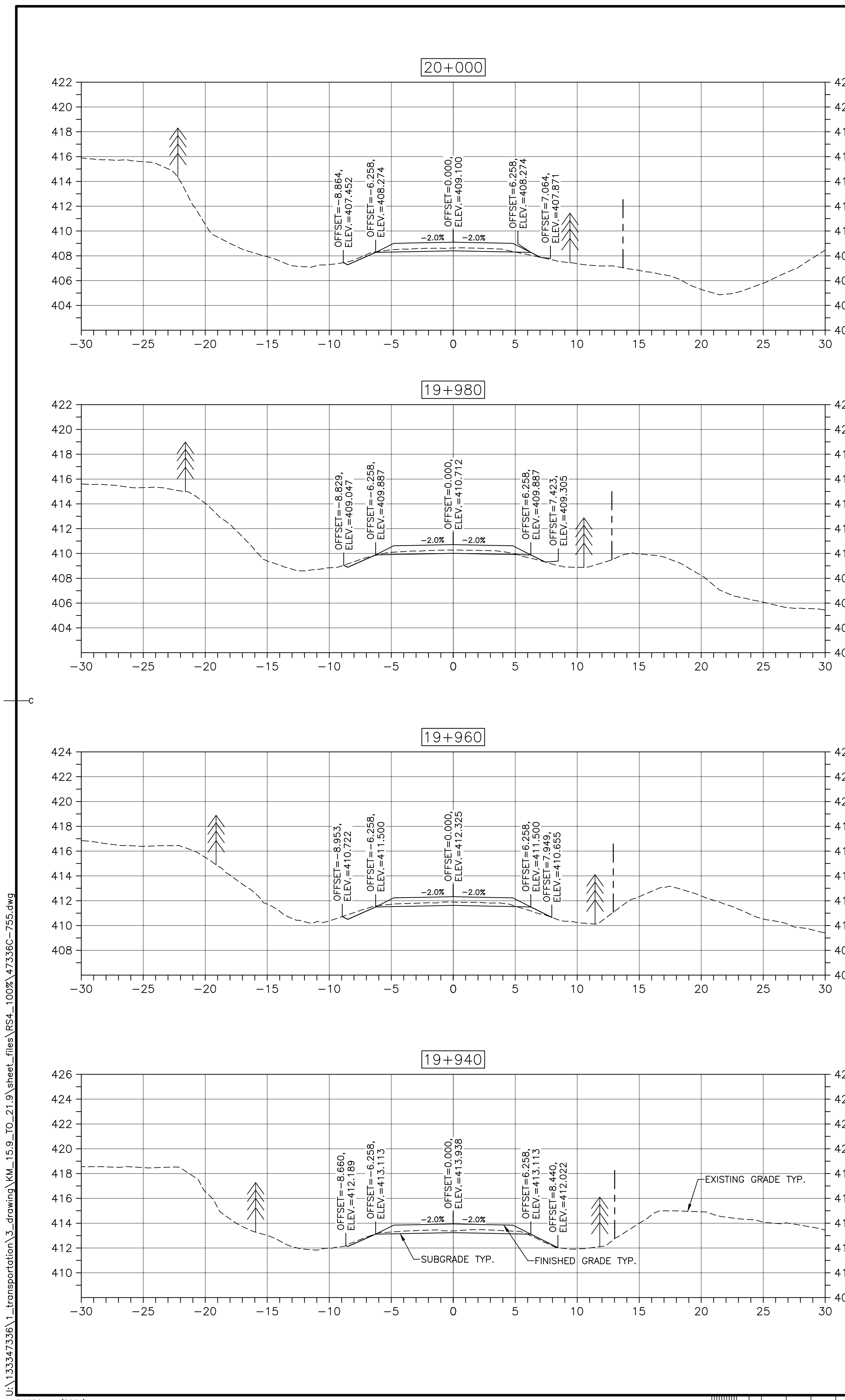


0	ISSUED FOR TENDER	FEB. 20 2017
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CABOT TRAIL REHABILITATION FRENCH TO MACKENZIE KM 15.9 TO 21.9 CAPE BRETON HIGHLANDS NATIONAL PARK		
drawing	dessein	

DESIGN SECTIONS		
designed	DSC	conçu
date	FEB. 20, 2017	
drawn	JLD	dessiné
date	FEB. 20, 2017	
approved	RMB	approuvé
date	FEB. 20, 2017	
Tender	<i>[Signature]</i>	Soumission
PCA Project Manager		FEB. 20, 2017
Administrateur de projets PCA		
project number		no. du projet
1114		
drawing no.		no. du dessin
C-58		



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project		projet

**CABOT TRAIL REHABILITATION
 FRENCH TO MACKENZIE
 KM 15.9 TO 21.9
 CAPE BRETON HIGHLANDS
 NATIONAL PARK**

drawing dessin

DESIGN SECTIONS

designed DSC	conçu
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drawn JLD	dessiné
date FEB. 20, 2017	
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Tender <i>JLD</i>	Soumission
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project number	no. du projet

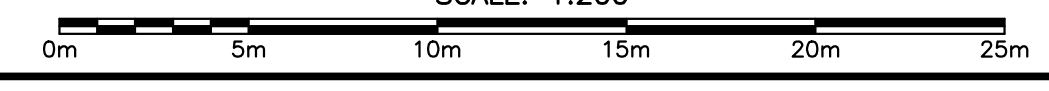
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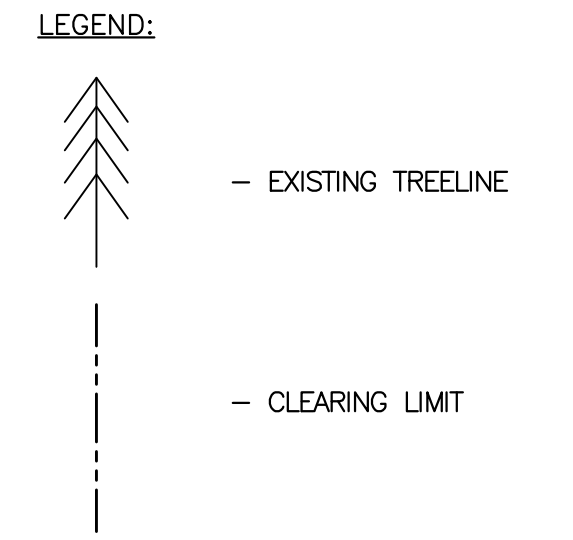
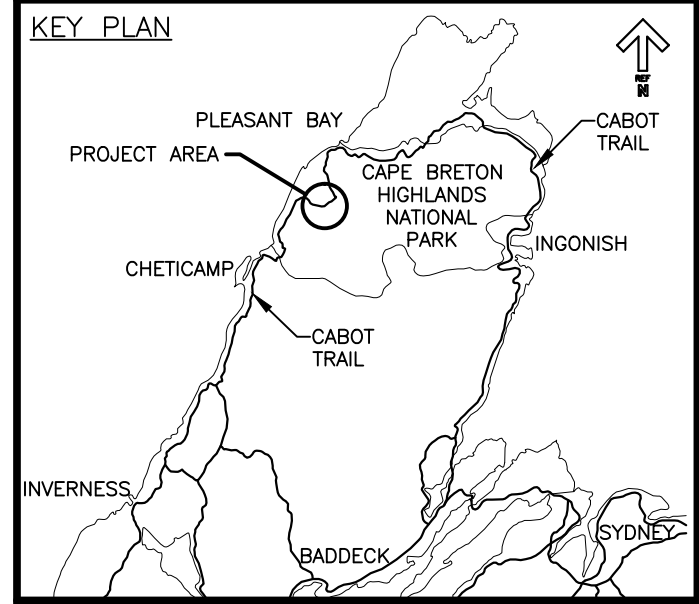
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CROSS SECTIONS

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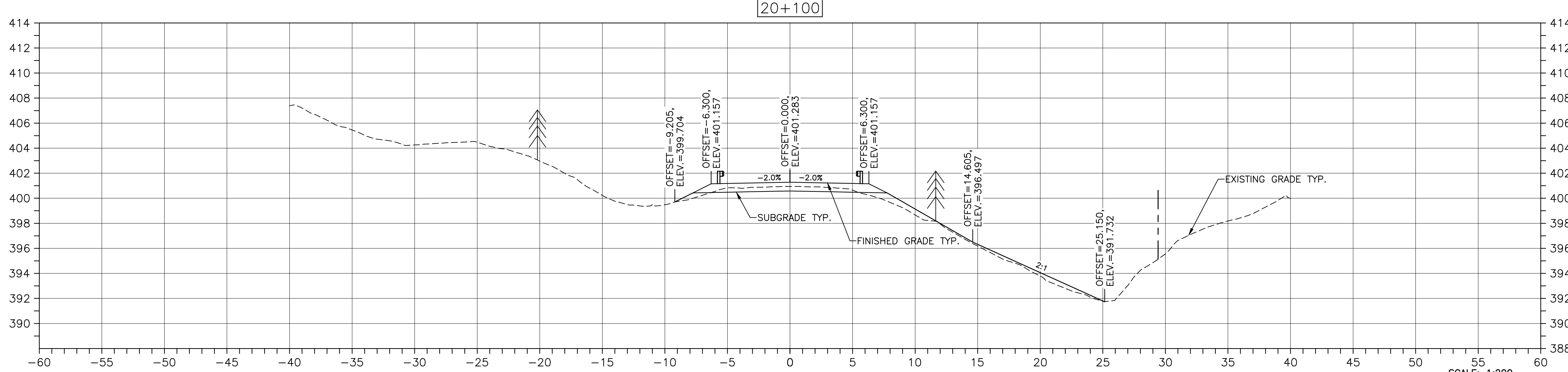
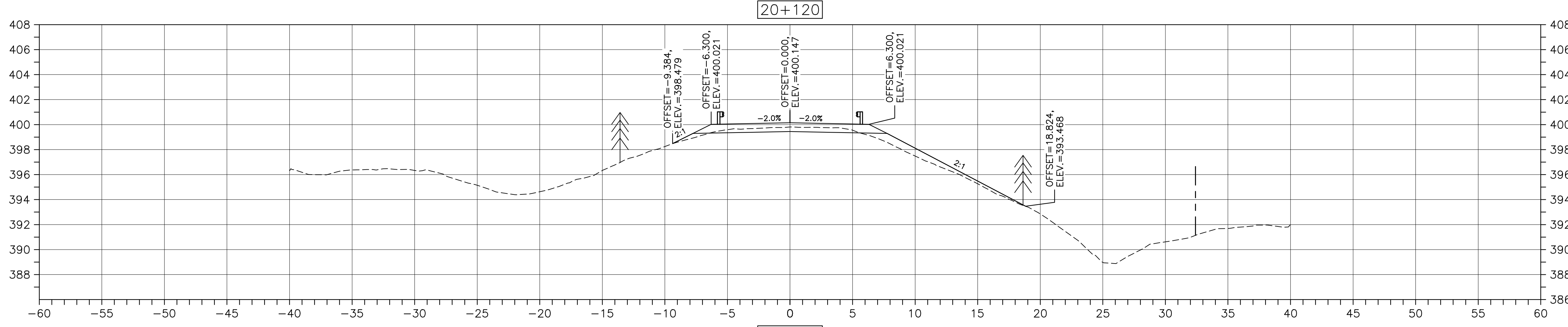
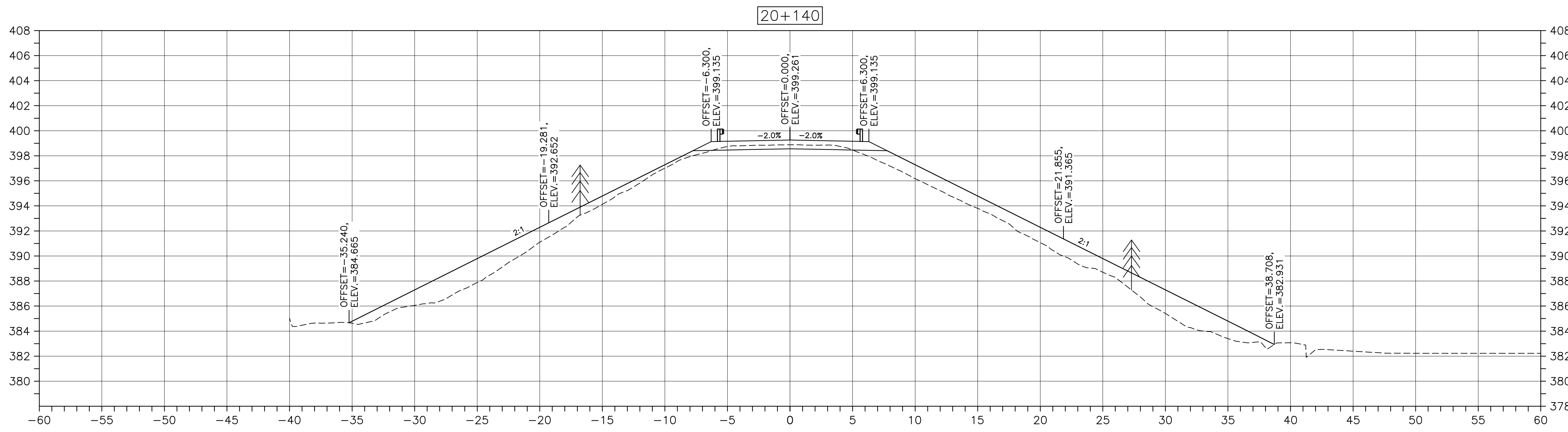
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revisions		date

project projet
**CABOT TRAIL REHABILITATION
 FRENCH TO MACKENZIE
 KM 15.9 TO 21.9
 CAPE BRETON HIGHLANDS
 NATIONAL PARK**

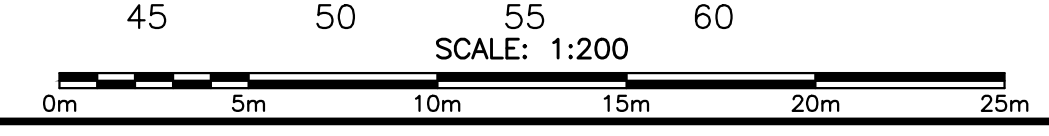
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DESIGN SECTIONS

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date FEB. 20, 2017	
Tender <i>[Signature]</i>	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet
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drawing no.	no. du dessin
C-60	

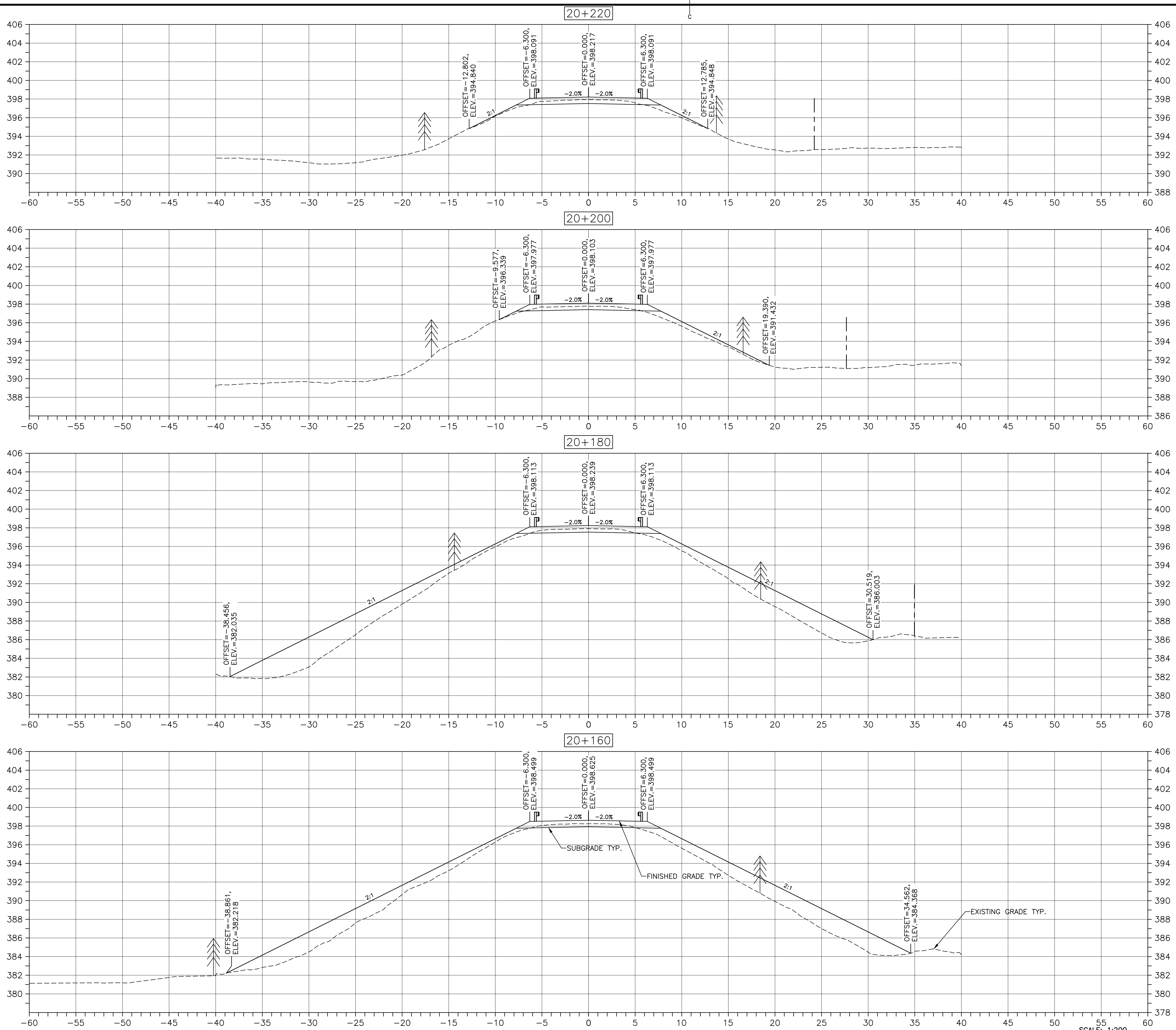


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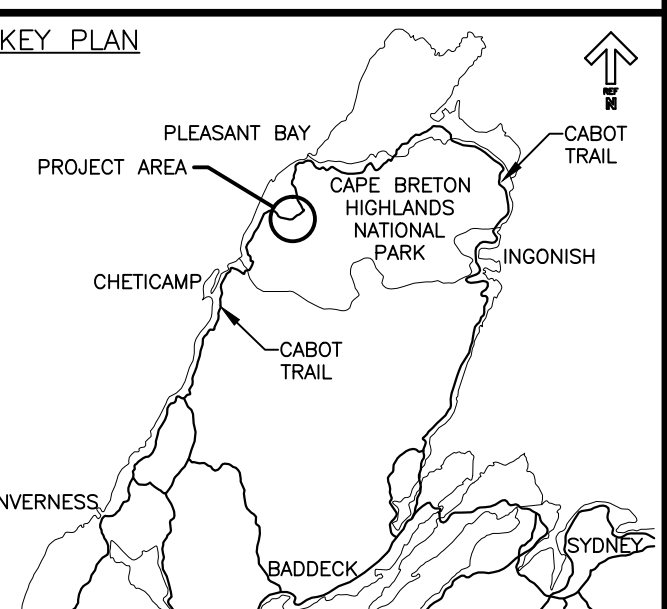
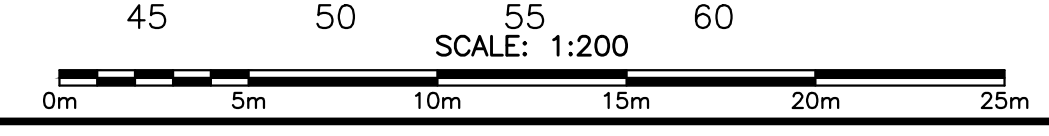


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CROSS SECTIONS



- LEGEND:**
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 - CLEARING LIMIT



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revisions		date

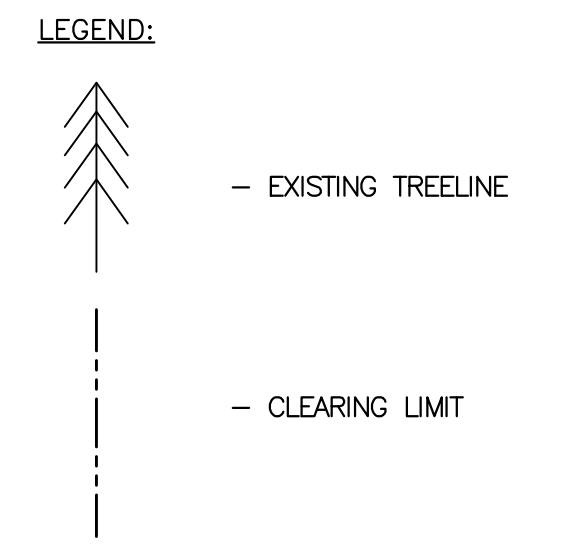
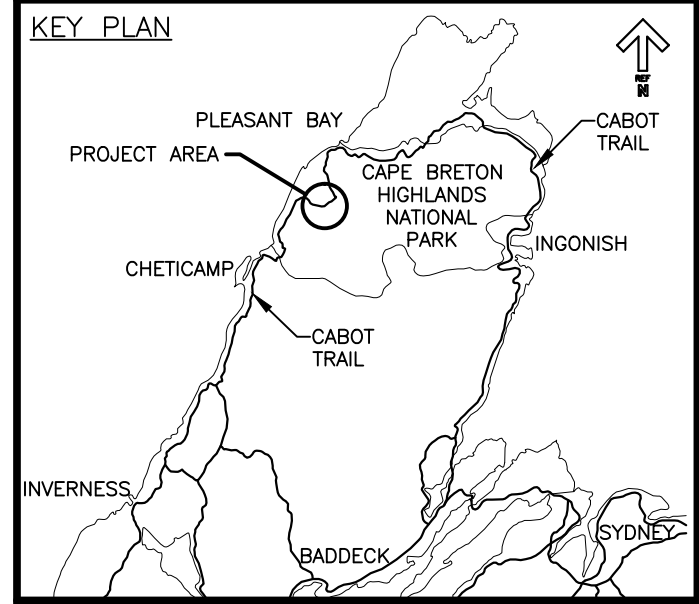
project CABOT TRAIL REHABILITATION
 FRENCH TO MACKENZIE
 KM 15.9 TO 21.9
 CAPE BRETON HIGHLANDS
 NATIONAL PARK

DESIGN SECTIONS

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date FEB. 20, 2017	
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date FEB. 20, 2017	
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PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

1114

drawing no. **C-61** no. du dessin



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revisions		date

project CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK

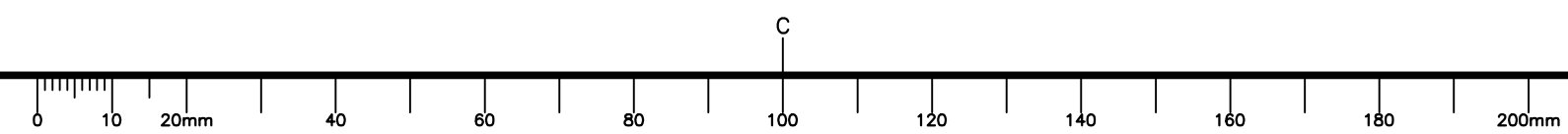
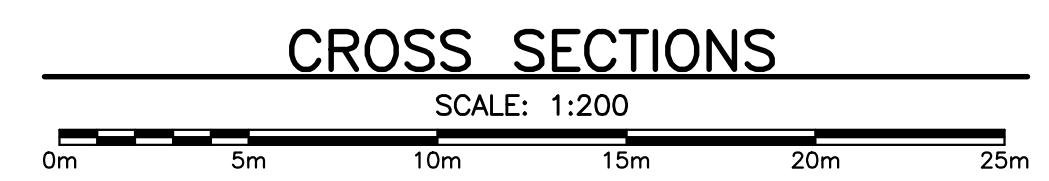
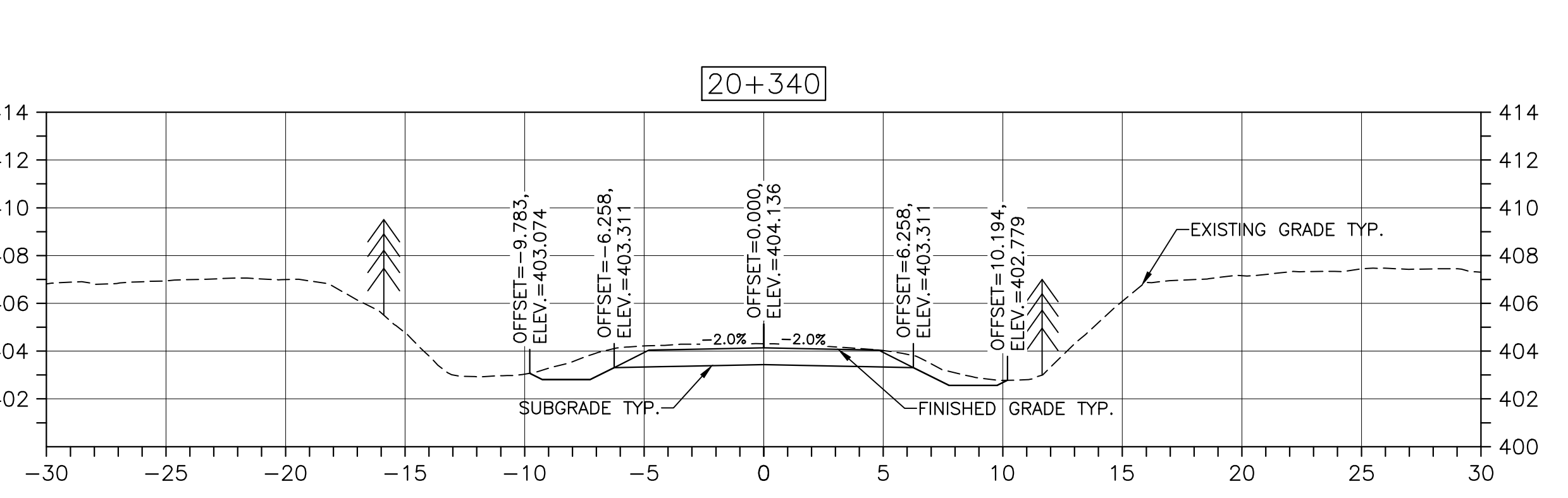
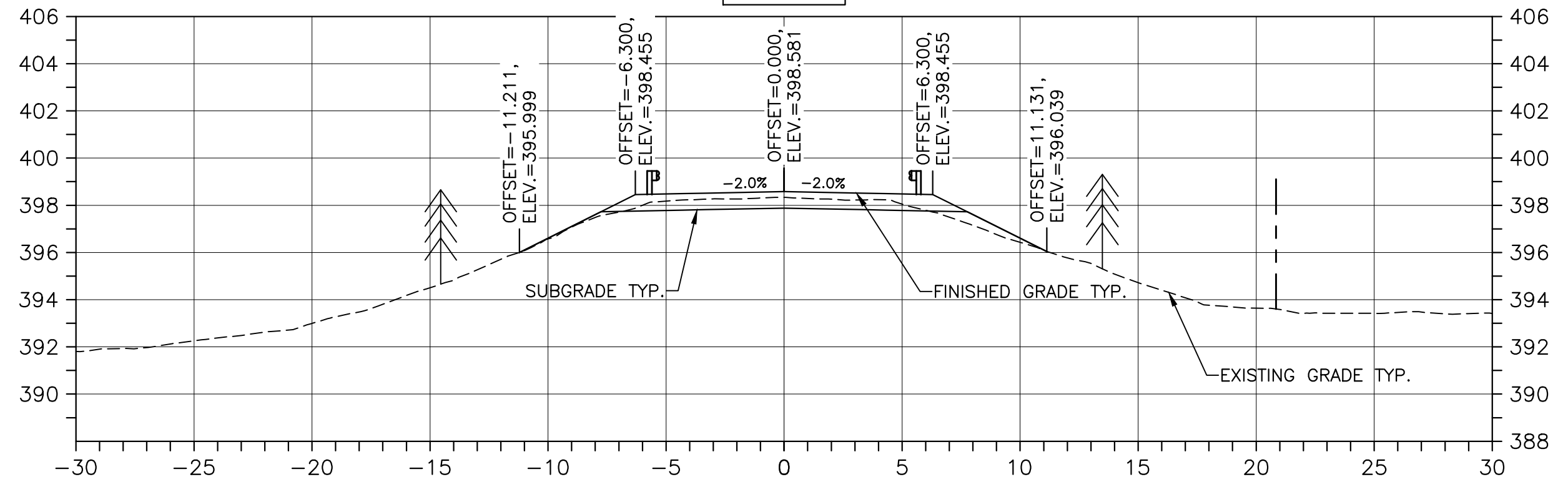
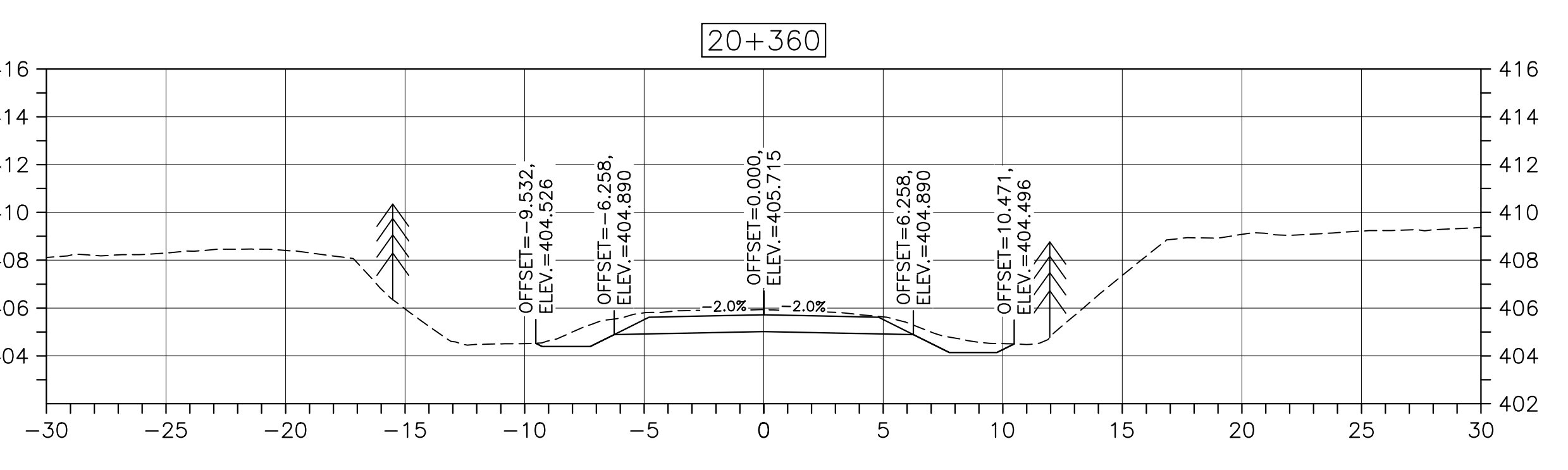
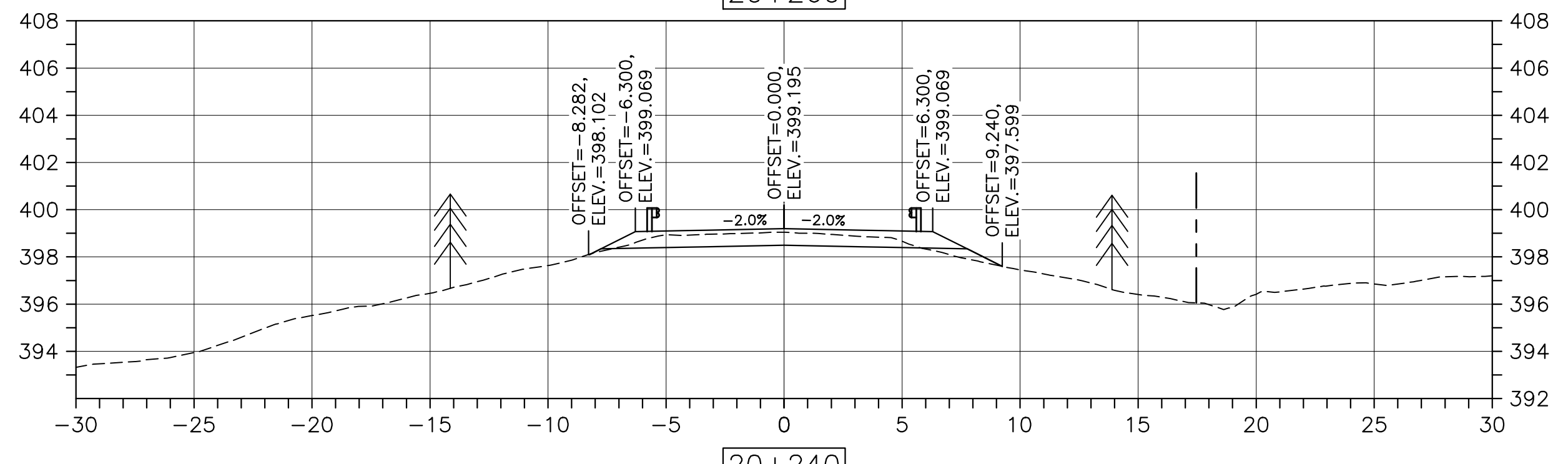
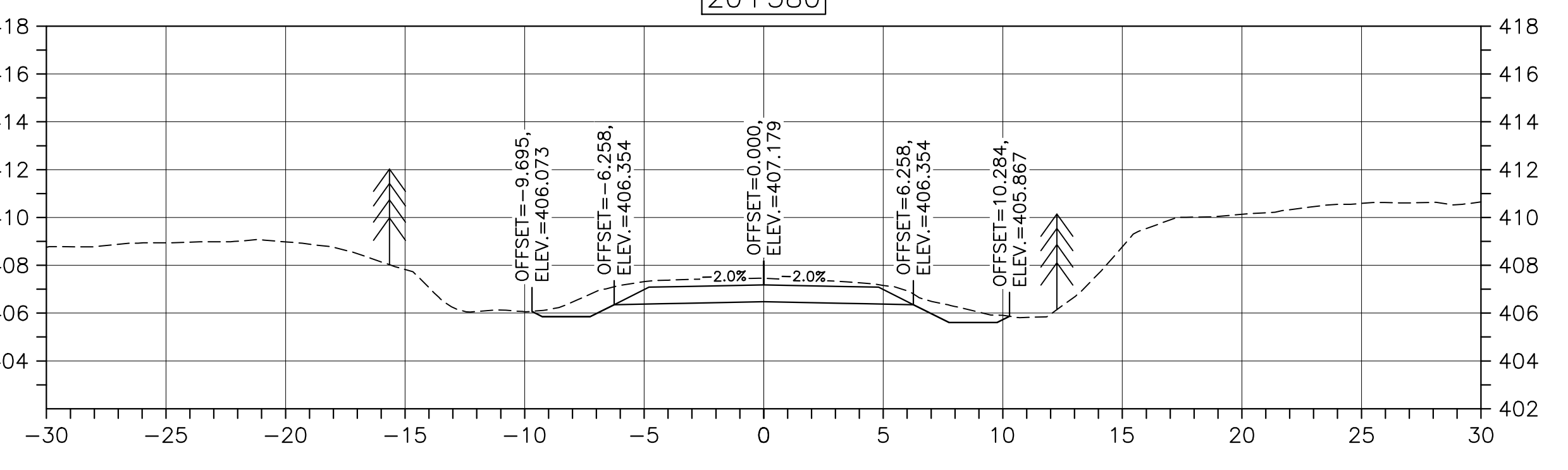
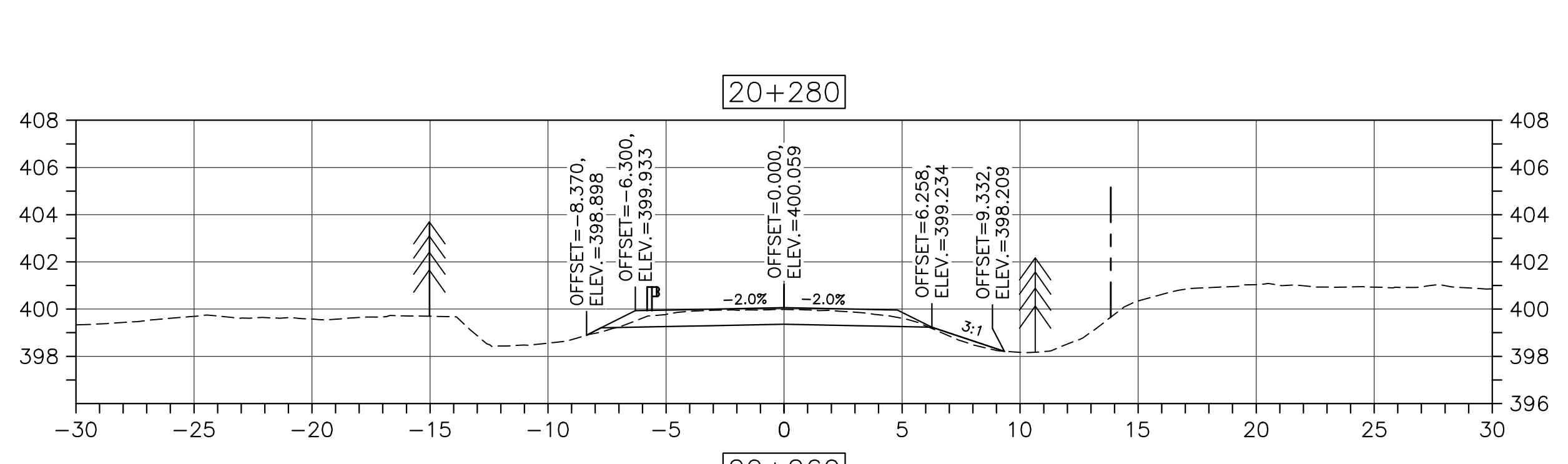
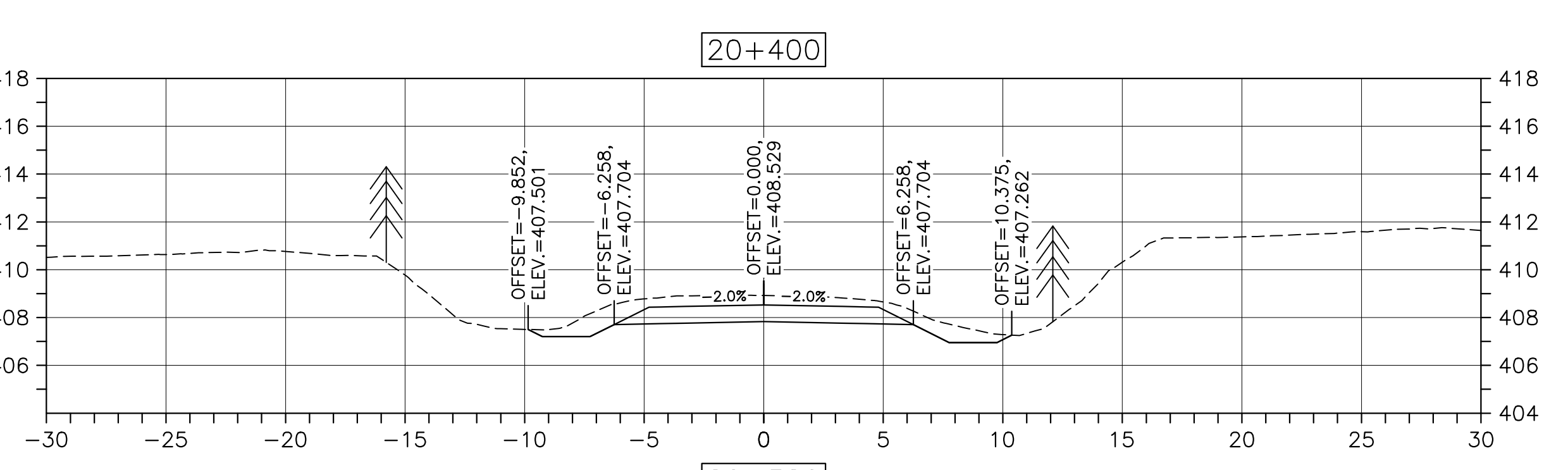
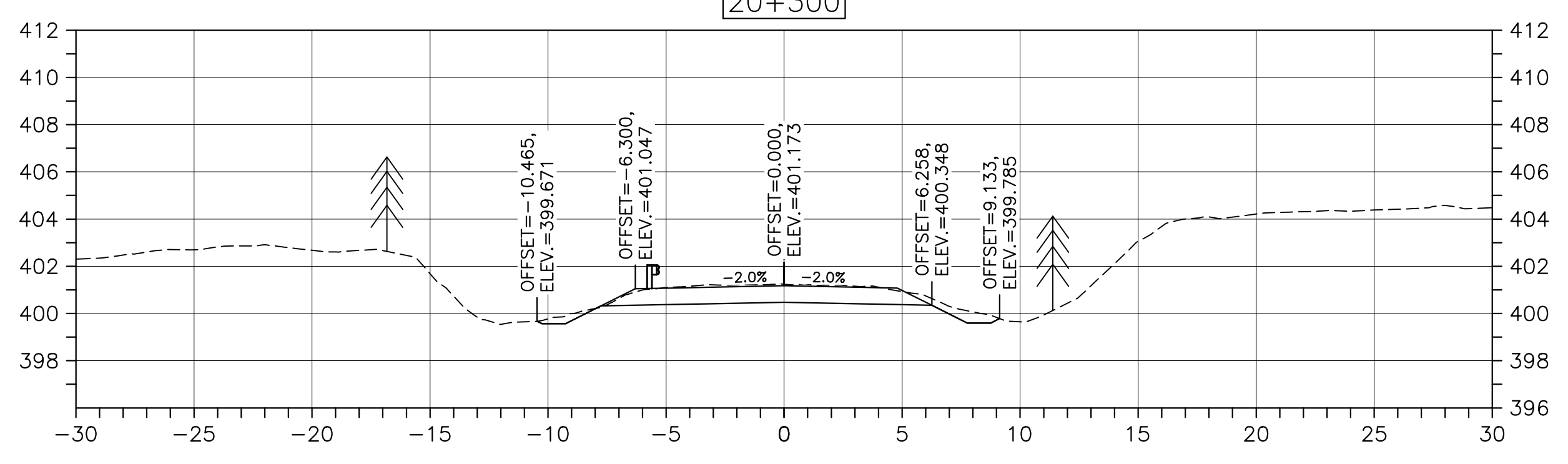
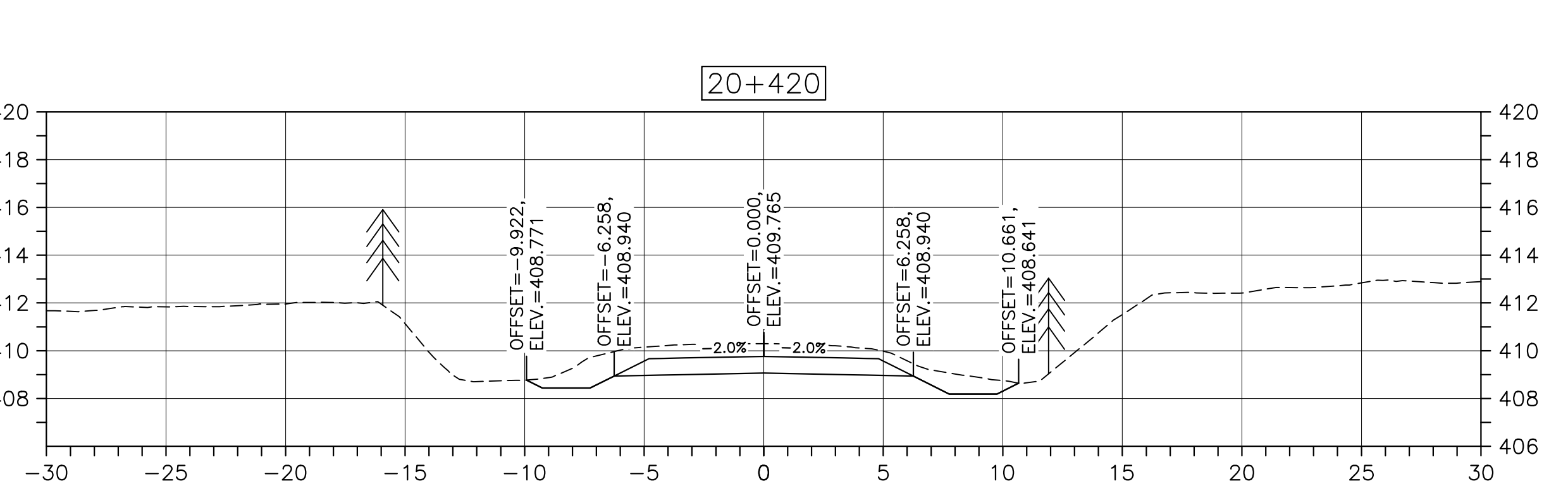
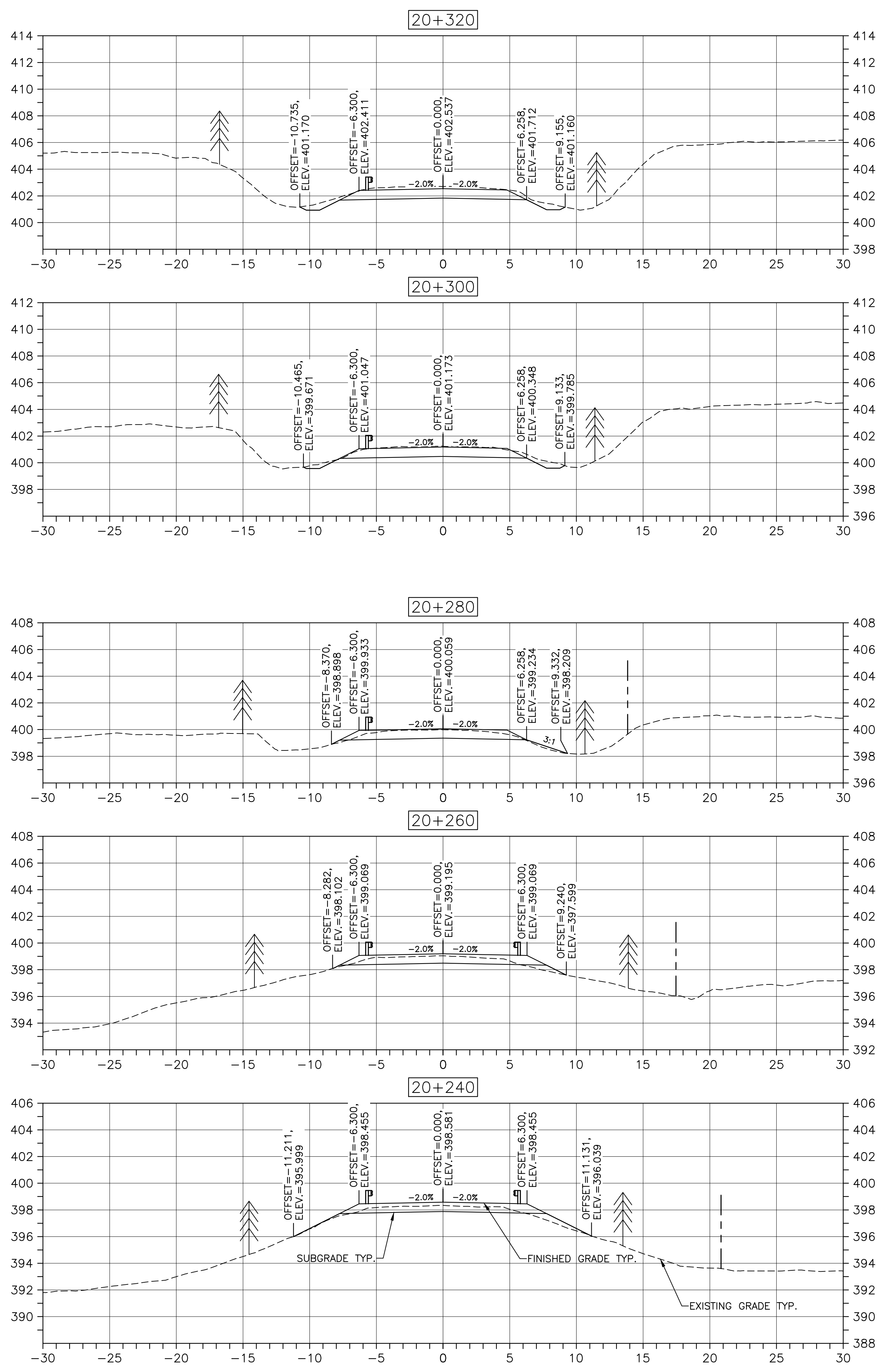
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DESIGN SECTIONS

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date FEB. 20, 2017	
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Tender <i>JLD</i>	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

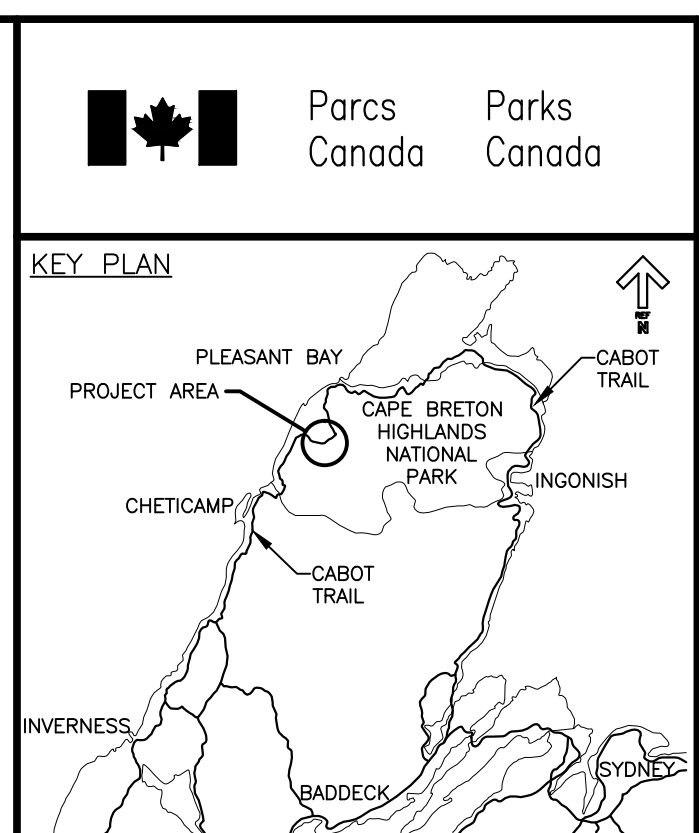
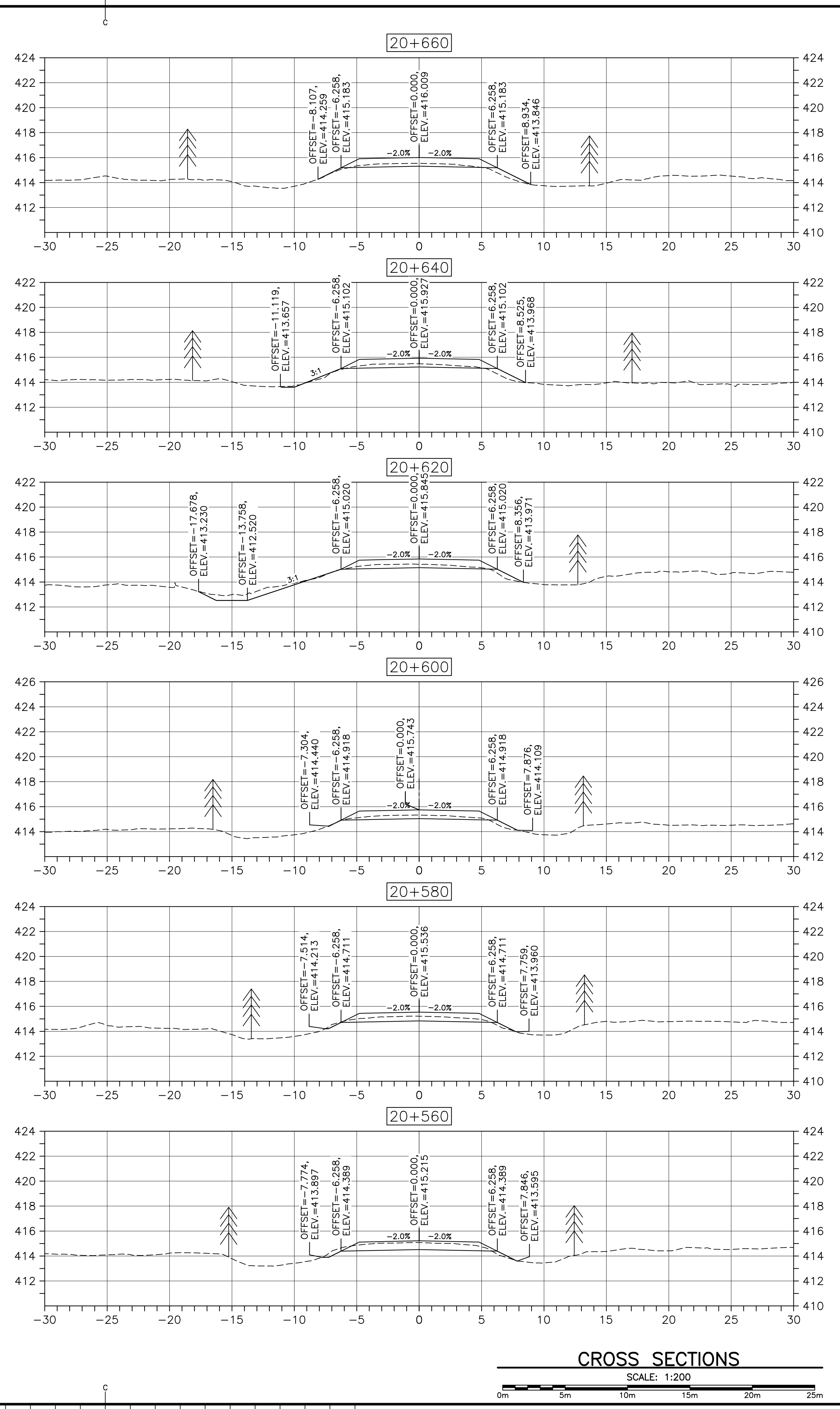
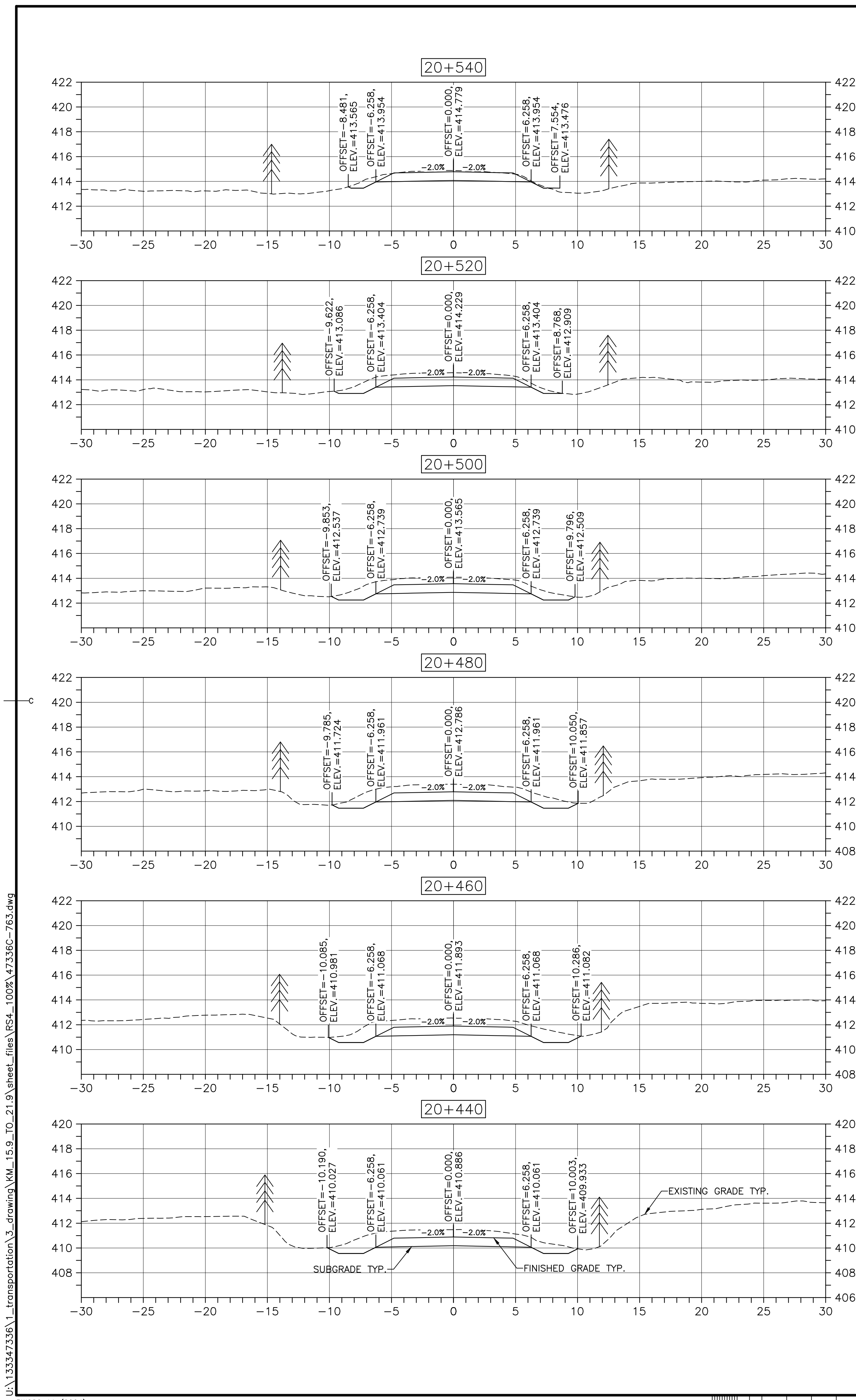
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drawing no. C-62 no. du dessin



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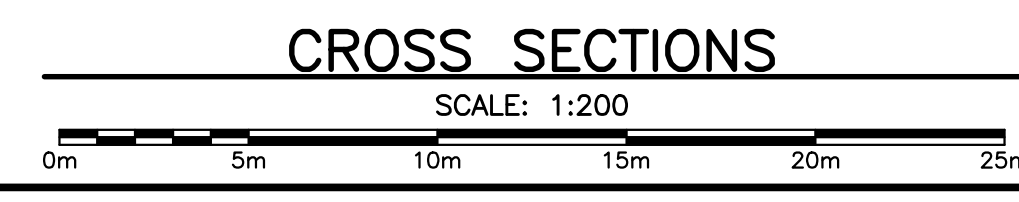


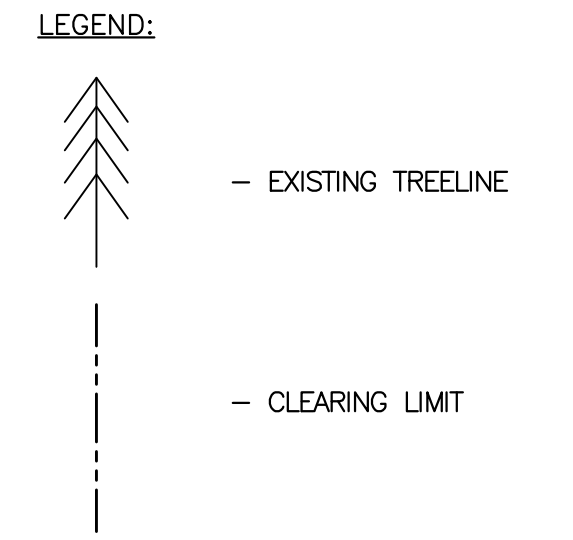
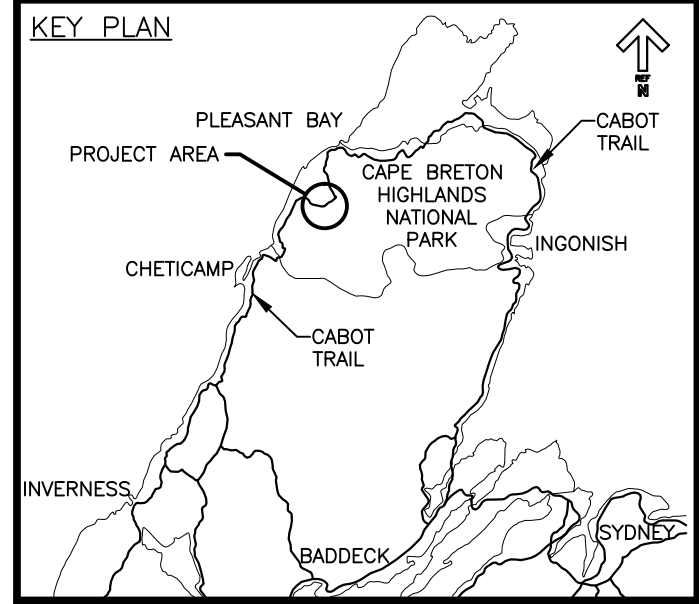
LEGEND:
 - EXISTING TREELINE
 - CLEARING LIMIT

PROFESSIONAL ENGINEER
 FEB. 20 2017
 9947
 PROVINCE OF NOVA SCOTIA

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revisions		date
project	project	
CABOT TRAIL REHABILITATION FRENCH TO MACKENZIE KM 15.9 TO 21.9 CAPE BRETON HIGHLANDS NATIONAL PARK		
drawing	dessin	

DESIGN SECTIONS		
designed	DSC	conçu
date	FEB. 20, 2017	
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approved	RMB	approuvé
date	FEB. 20, 2017	
Tender	Soumission	
PCA Project Manager	FEB. 20, 2017	
project number	Administrateur de projets PCA	
1114		
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revisions		date

project CABOT TRAIL REHABILITATION
 FRENCH TO MACKENZIE
 KM 15.9 TO 21.9
 CAPE BRETON HIGHLANDS NATIONAL PARK

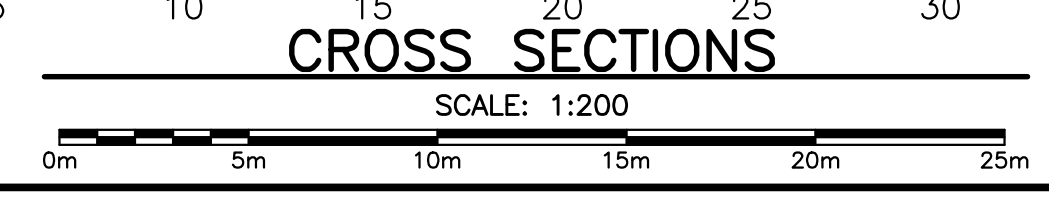
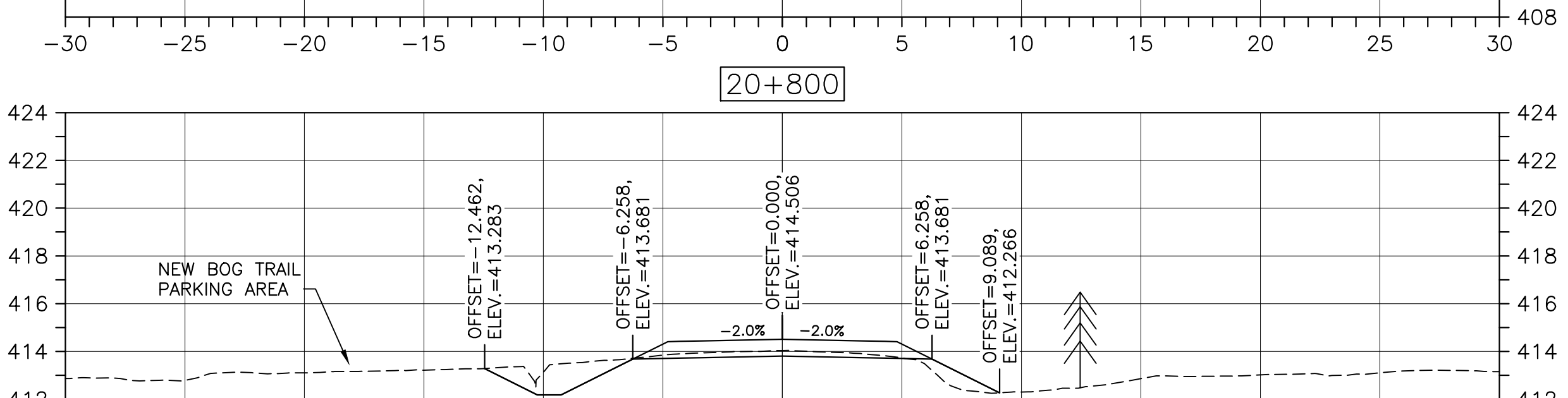
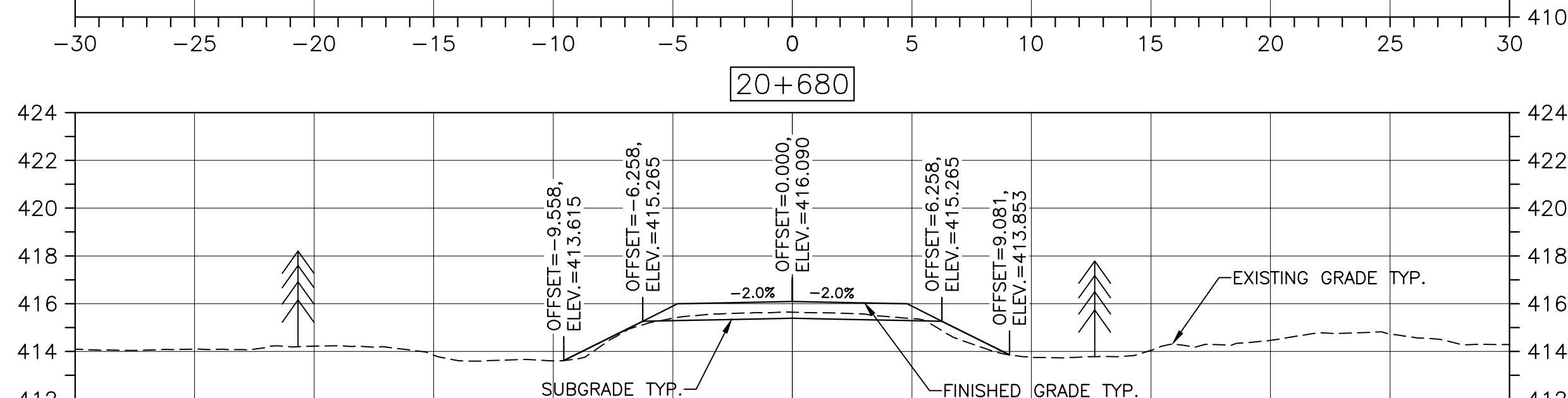
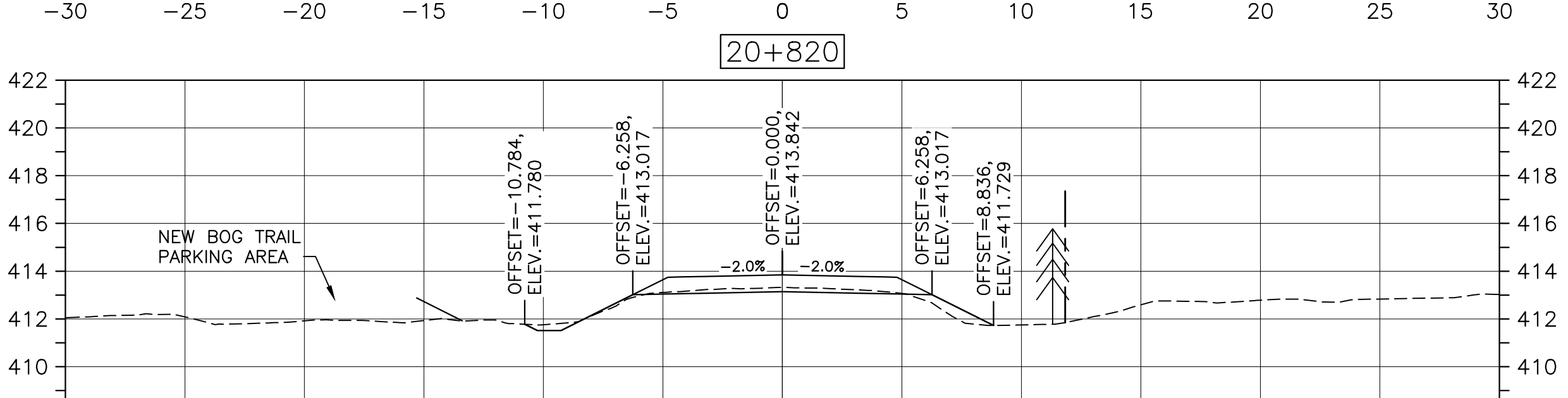
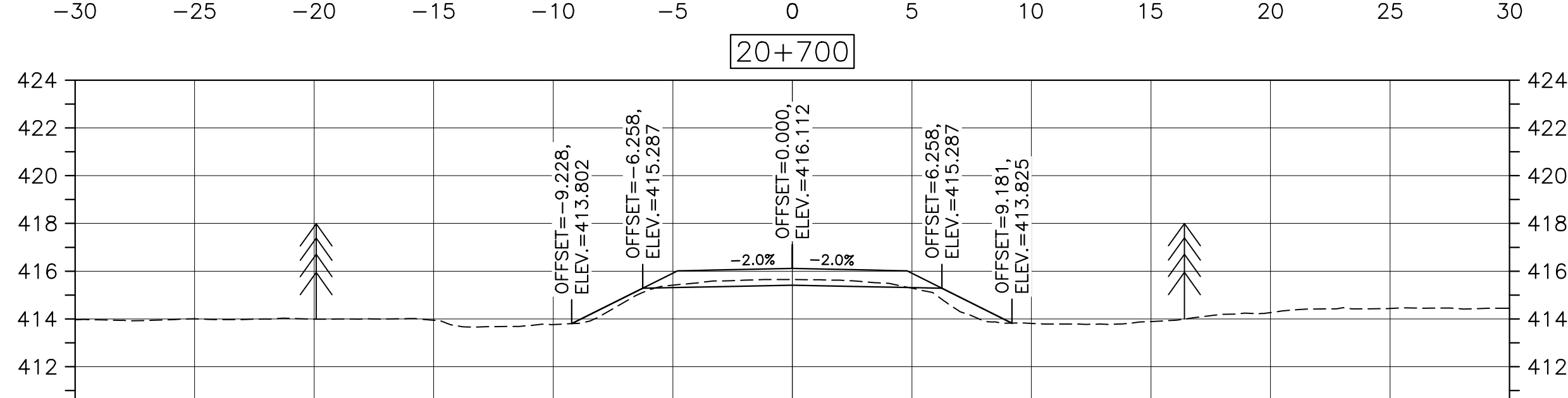
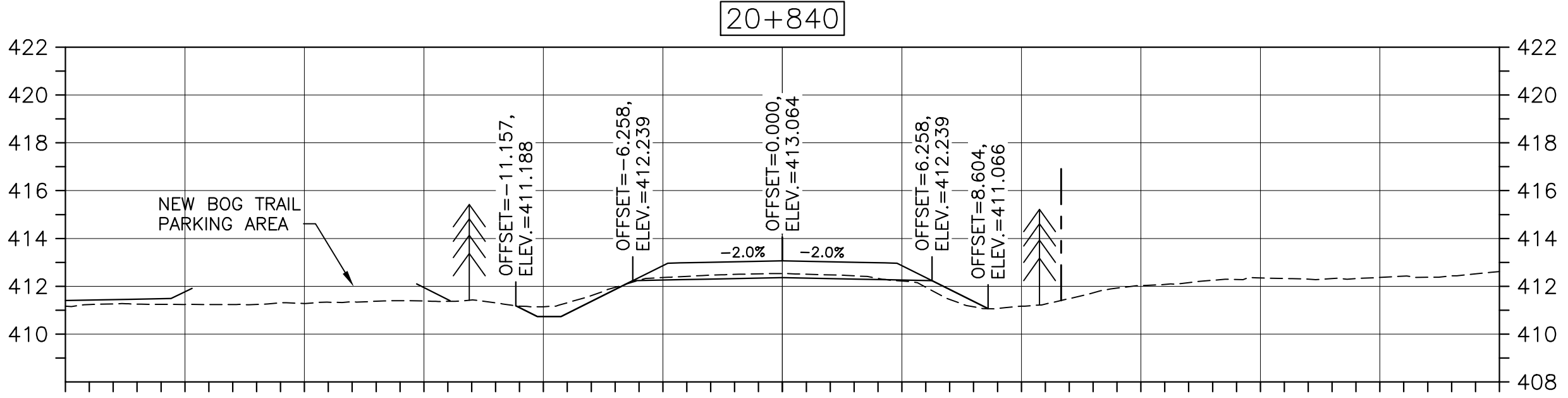
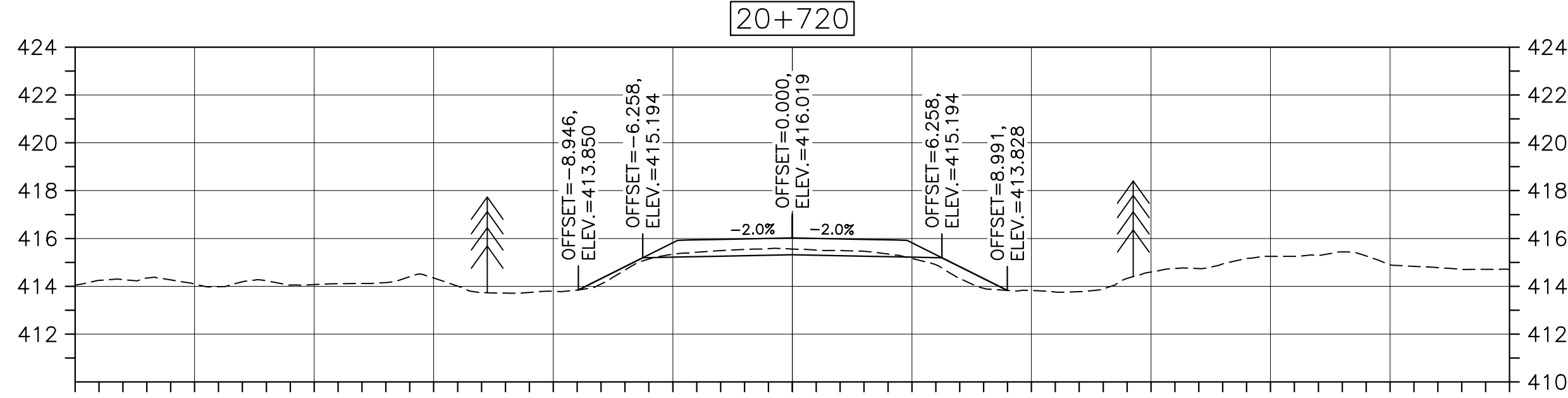
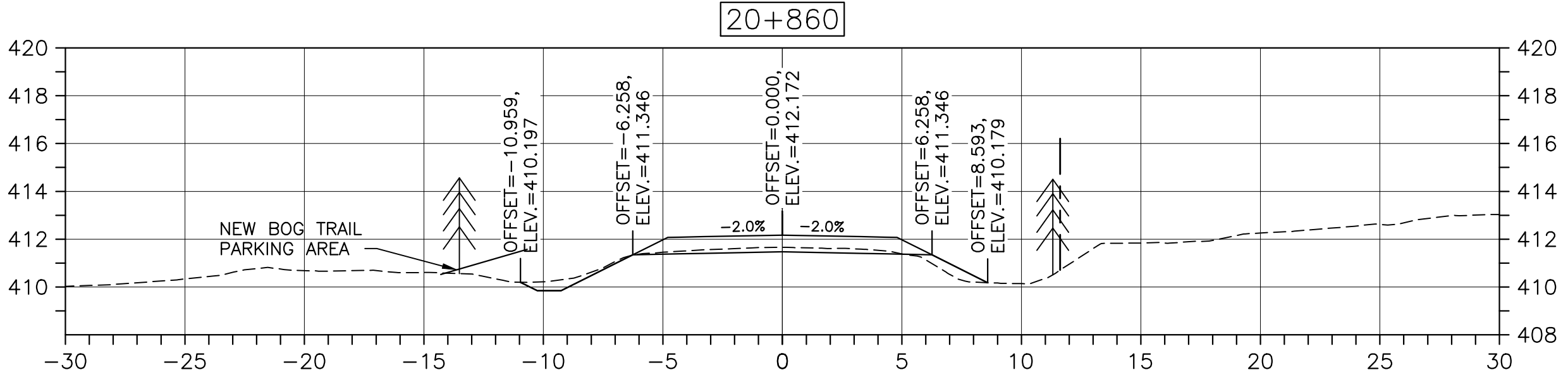
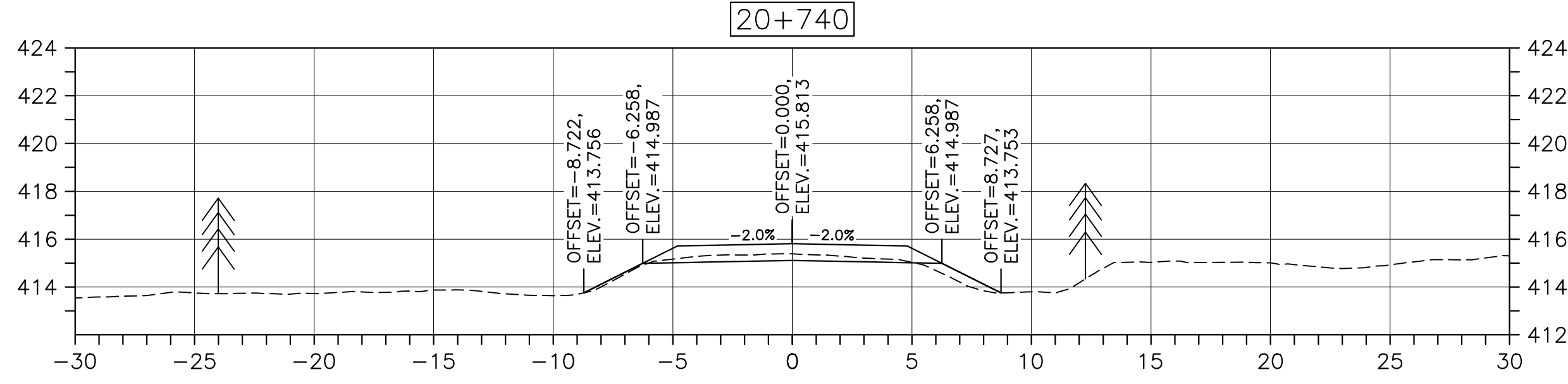
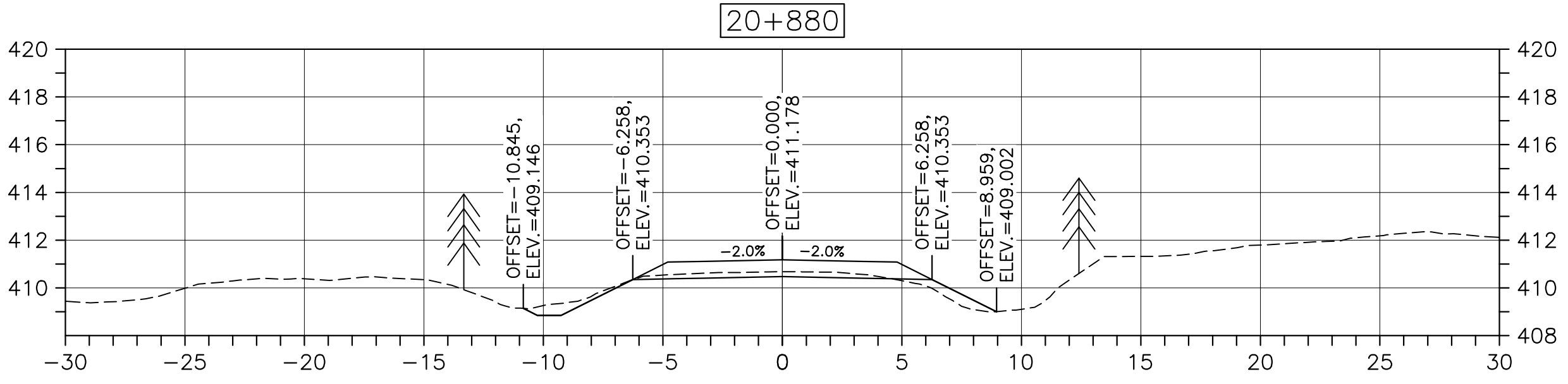
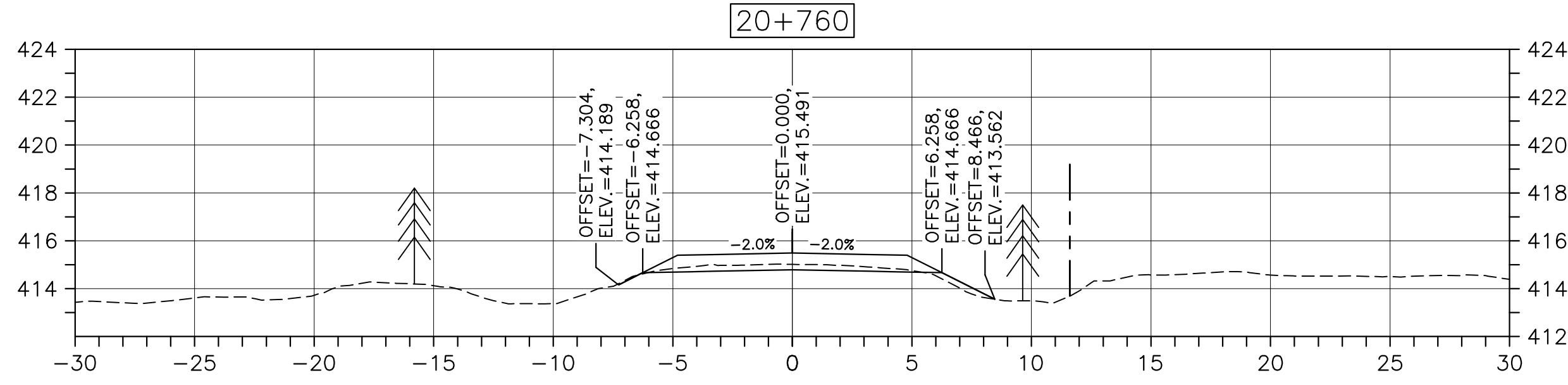
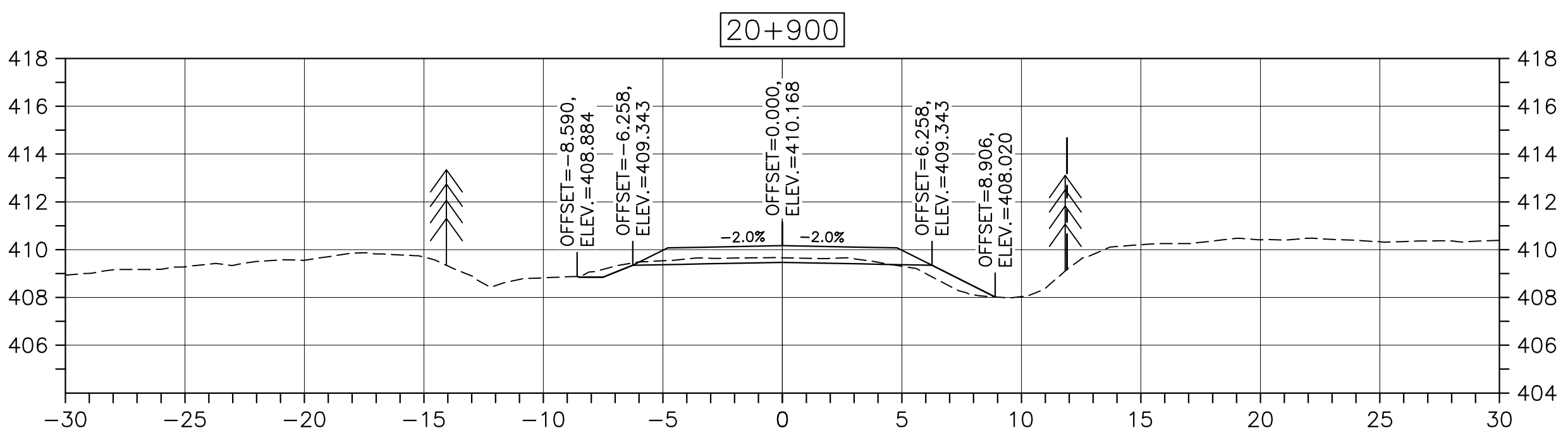
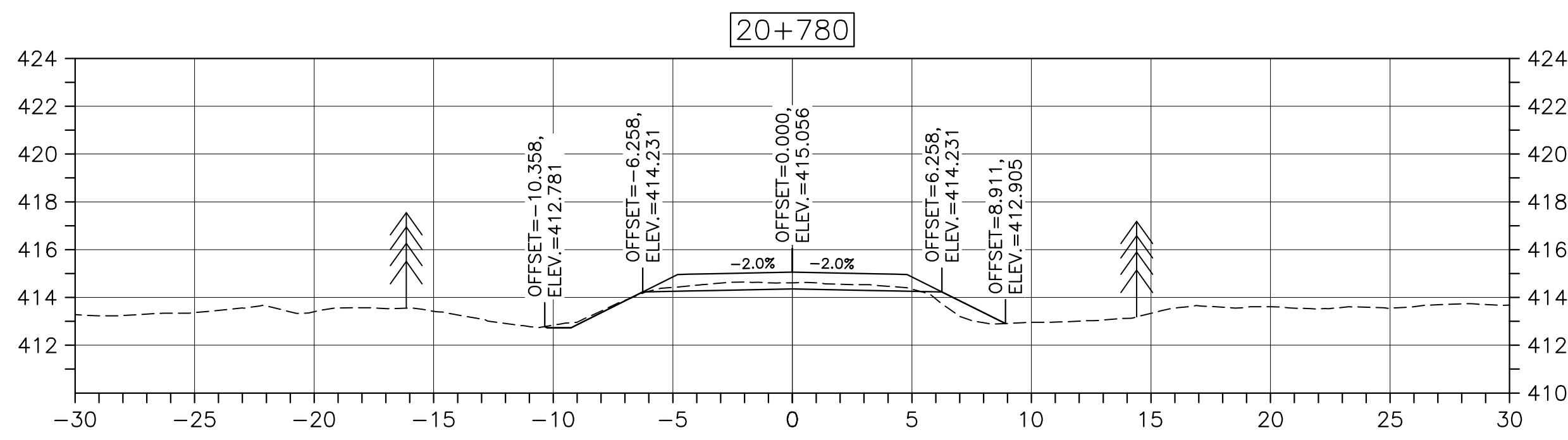
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DESIGN SECTIONS

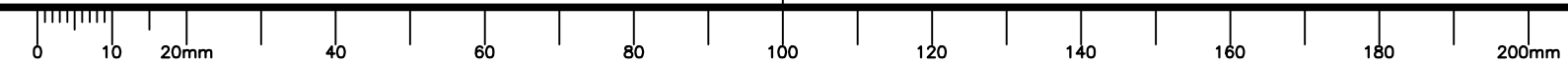
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date FEB. 20, 2017	
drawn JLD	dessiné
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Tender <i>[Signature]</i>	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

1114

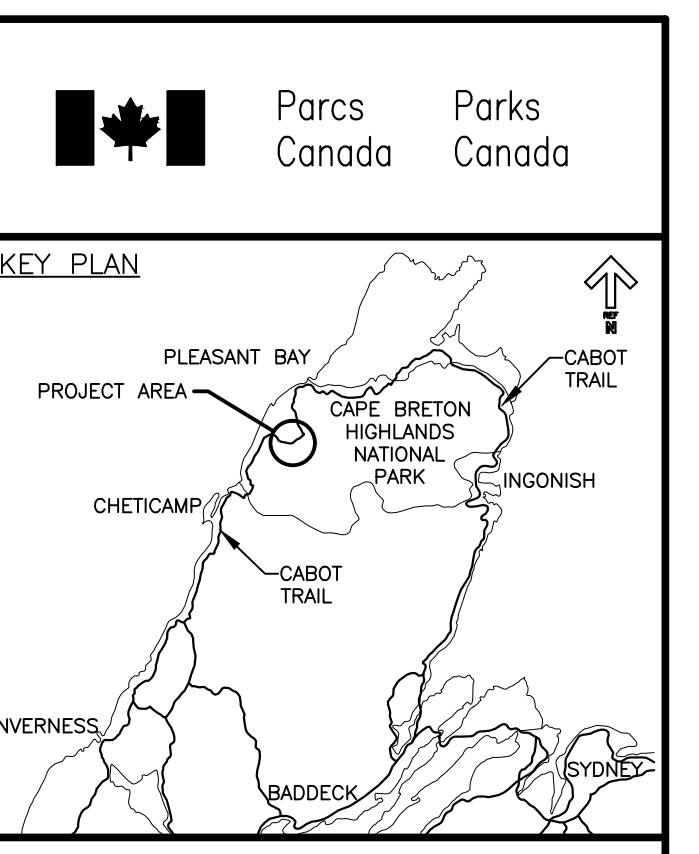
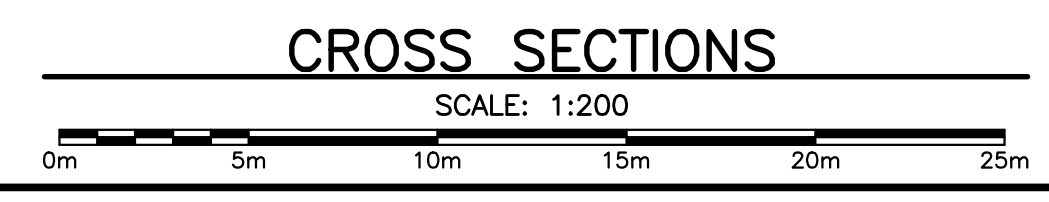
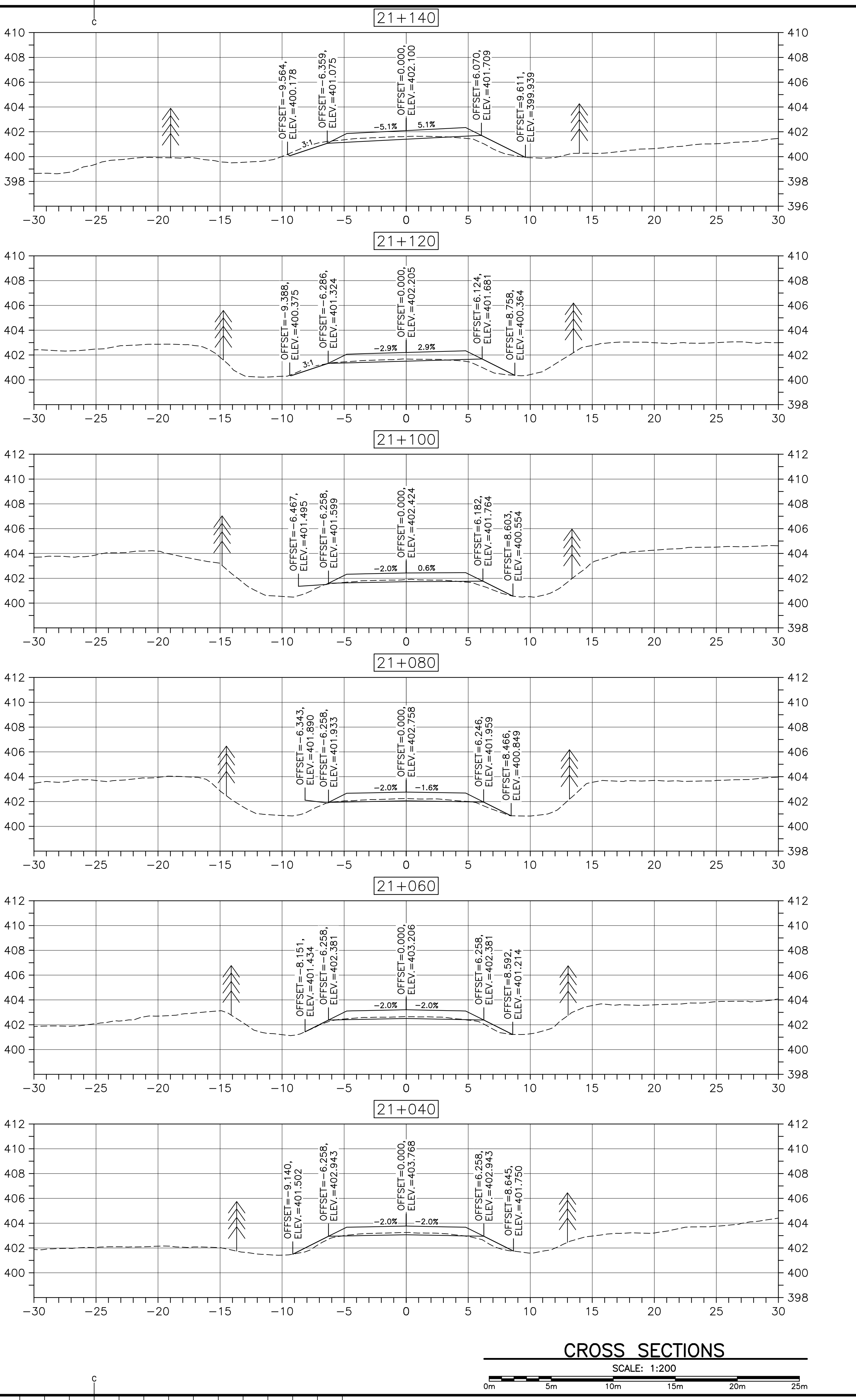
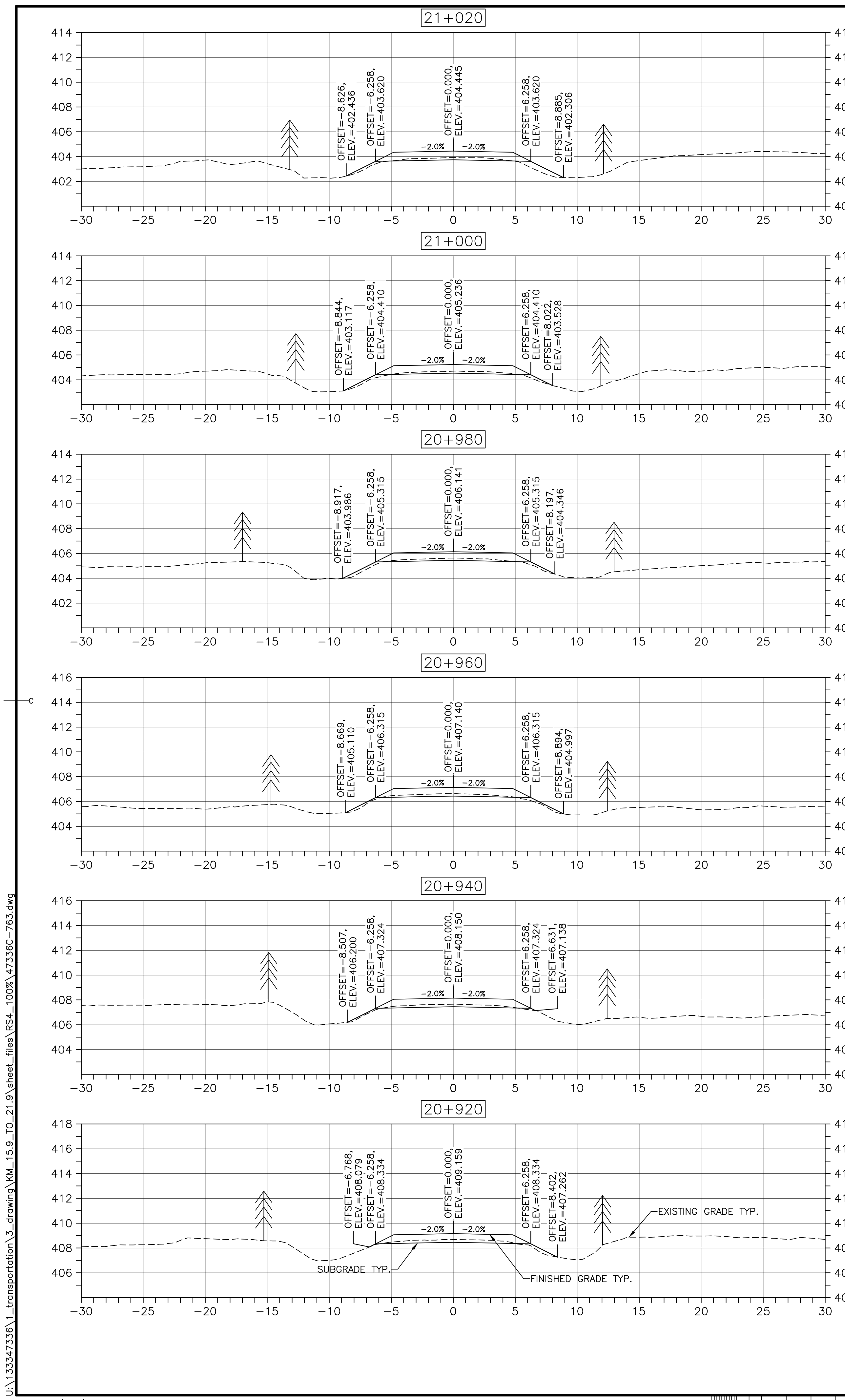
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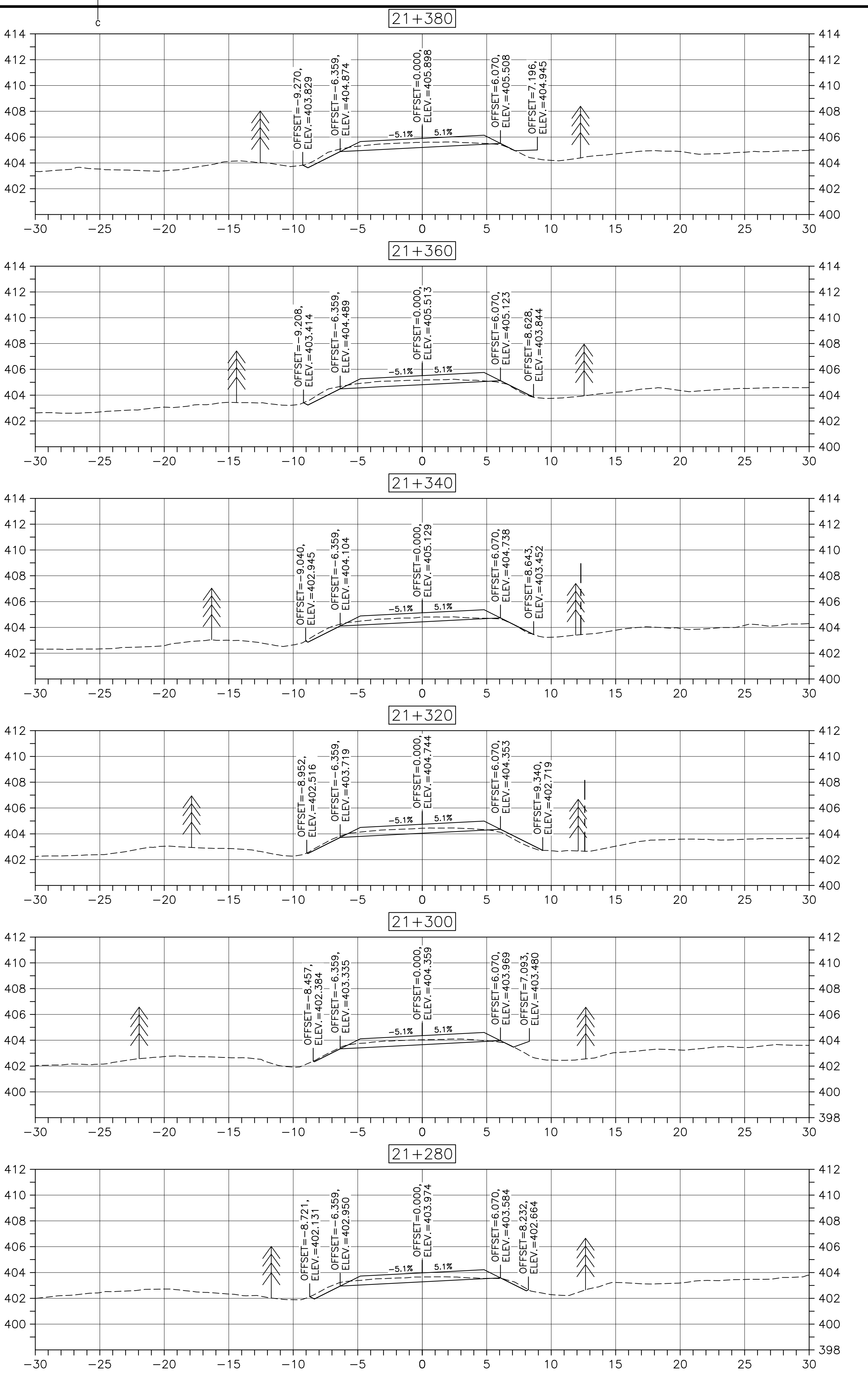
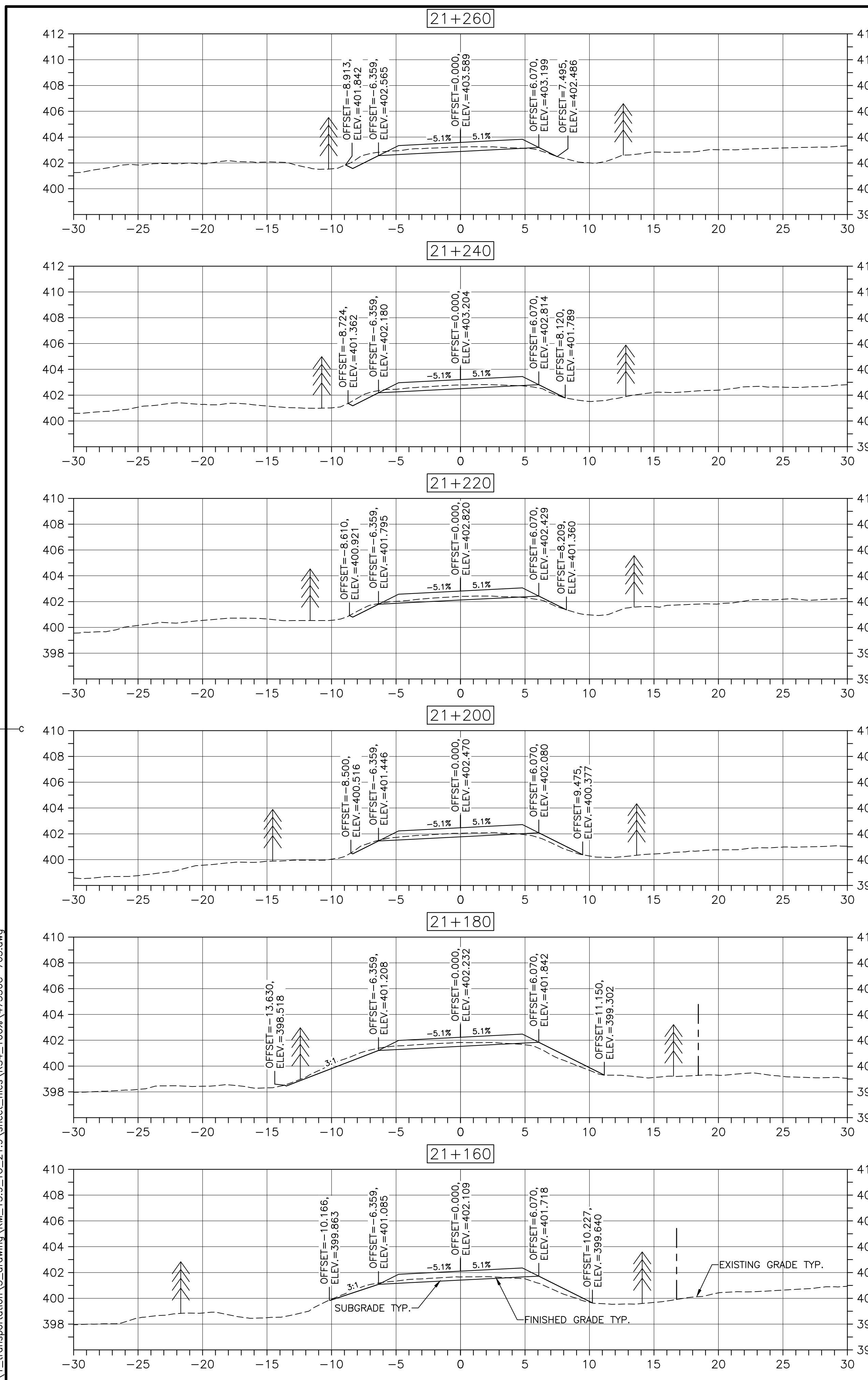


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 - EXISTING TREELINE
 - CLEARING LIMIT

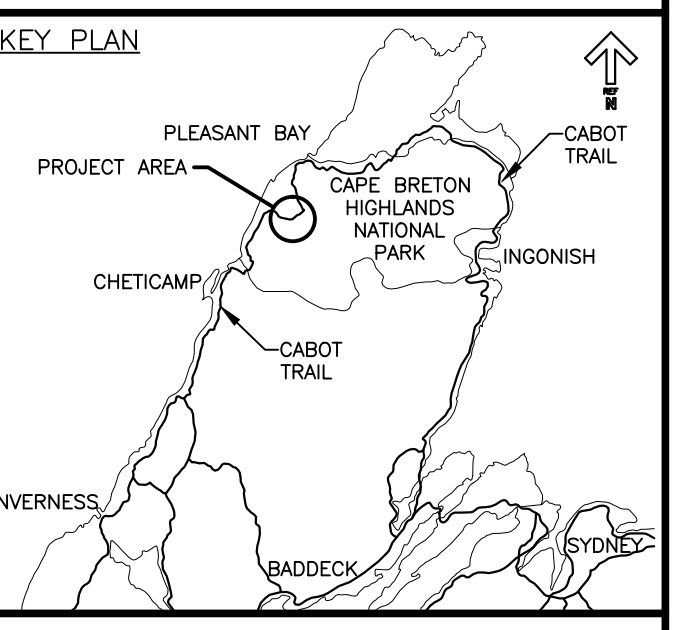
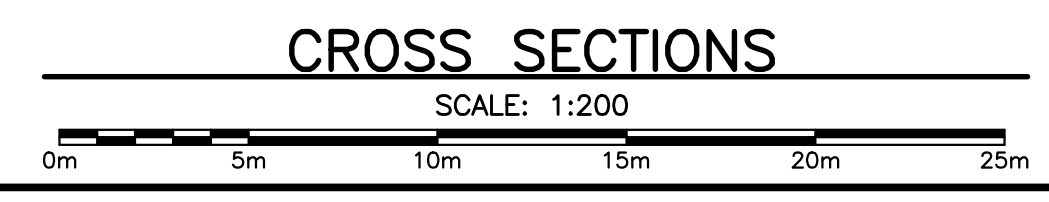
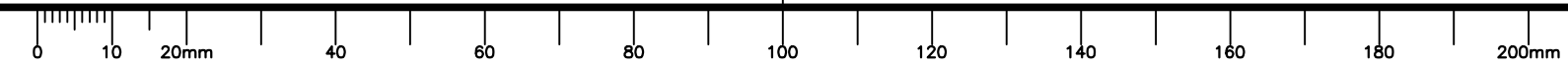
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 revisions date
 project CABOT TRAIL REHABILITATION FRENCH TO MACKENZIE KM 15.9 TO 21.9 CAPE BRETON HIGHLANDS NATIONAL PARK
 drawing dessin
 designed DSC conçu
 date FEB. 20, 2017
 drawn JLD dessiné
 date FEB. 20, 2017
 approved RMB approuvé
 date FEB. 20, 2017
 Tender Soumission
 PCA Project Manager Administrateur de projets PCA
 project number no. du projet
1114
 drawing no. no. du dessin
C-65

DESIGN SECTIONS

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PWGSC A1 (2004)



LEGEND:
 - EXISTING TREELINE
 - CLEARING LIMIT



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revisions		date

project CABOT TRAIL REHABILITATION FRENCH TO MACKENZIE KM 15.9 TO 21.9 CAPE BRETON HIGHLANDS NATIONAL PARK

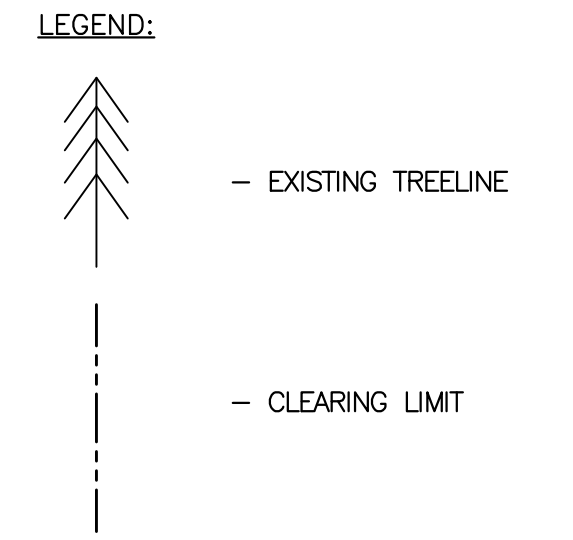
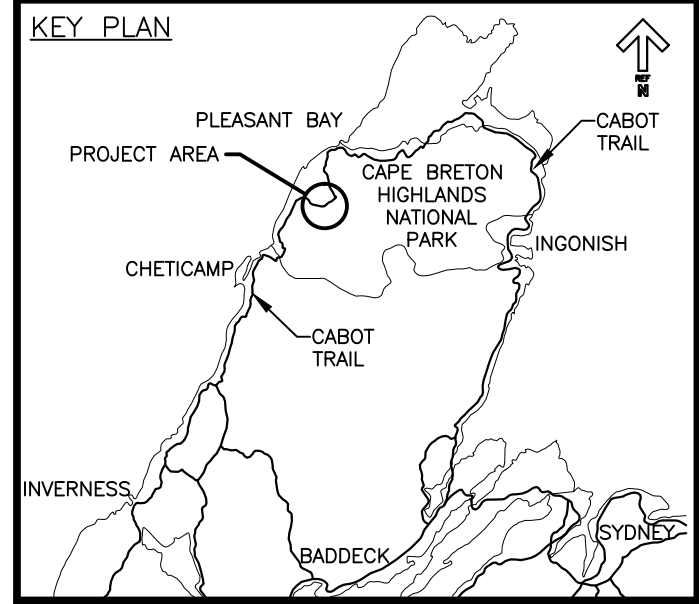
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DESIGN SECTIONS

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Tender <i>Stantec</i>	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

1114

drawing no. C-66 no. du dessin



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**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessein

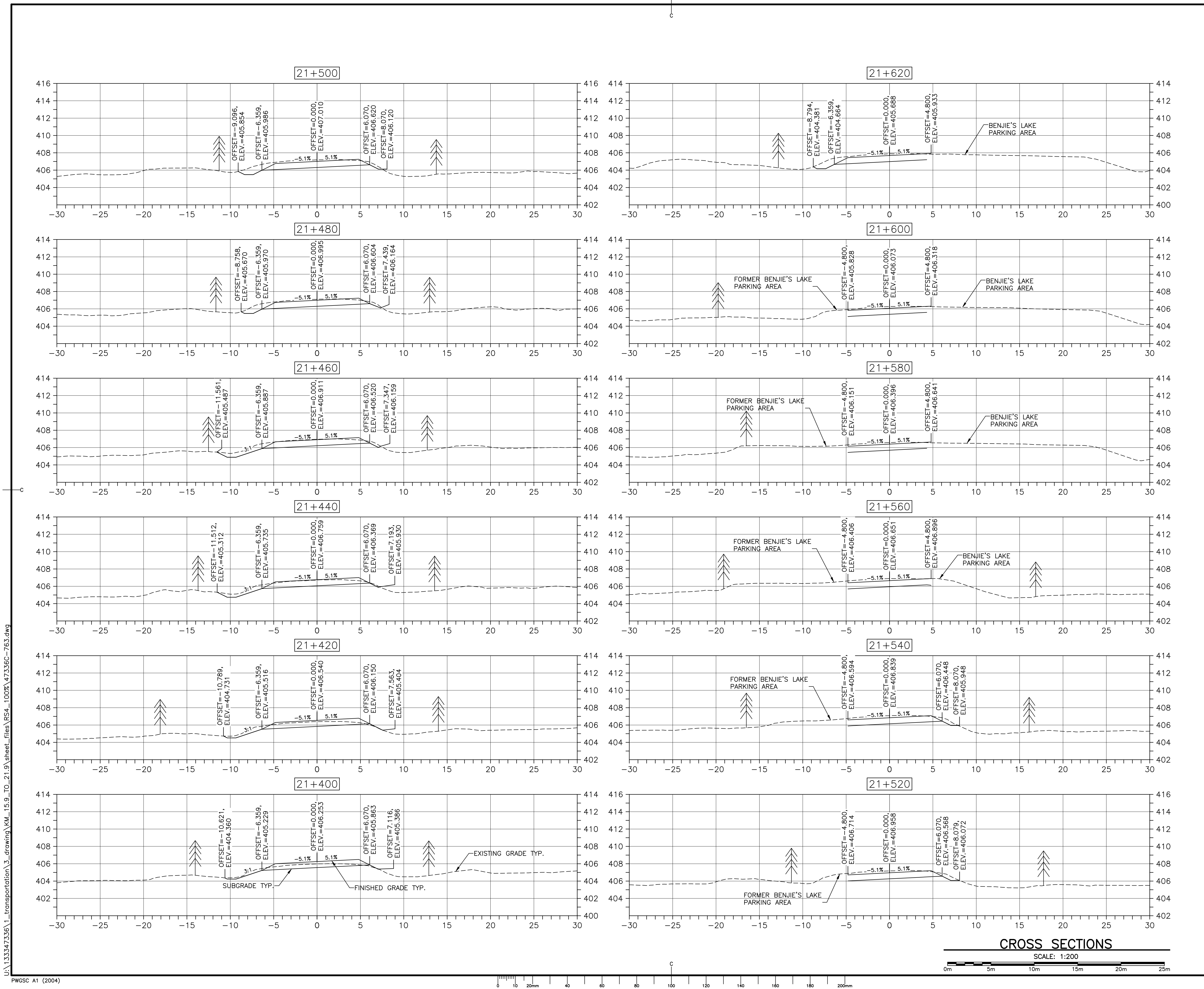
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PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

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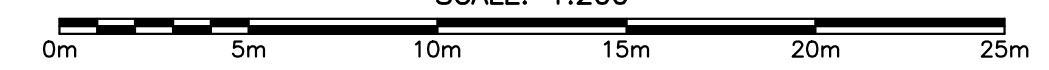
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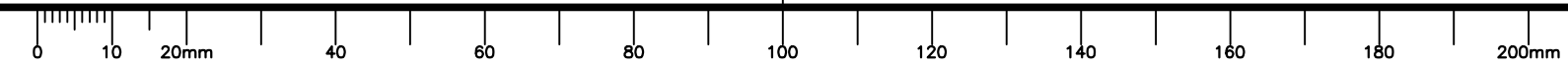


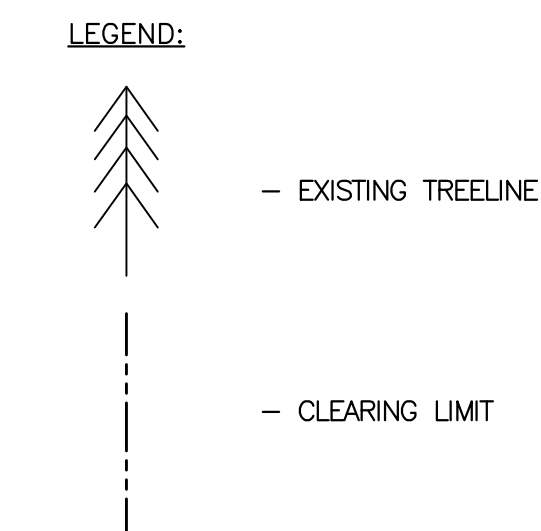
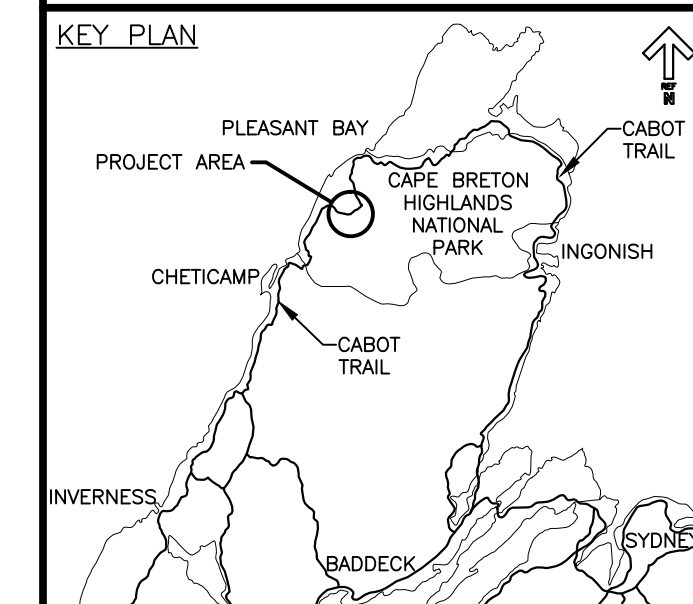
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project project
**CABOT TRAIL REHABILITATION
 FRENCH TO MACKENZIE
 KM 15.9 TO 21.9
 CAPE BRETON HIGHLANDS
 NATIONAL PARK**

drawing dessin

DESIGN SECTIONS

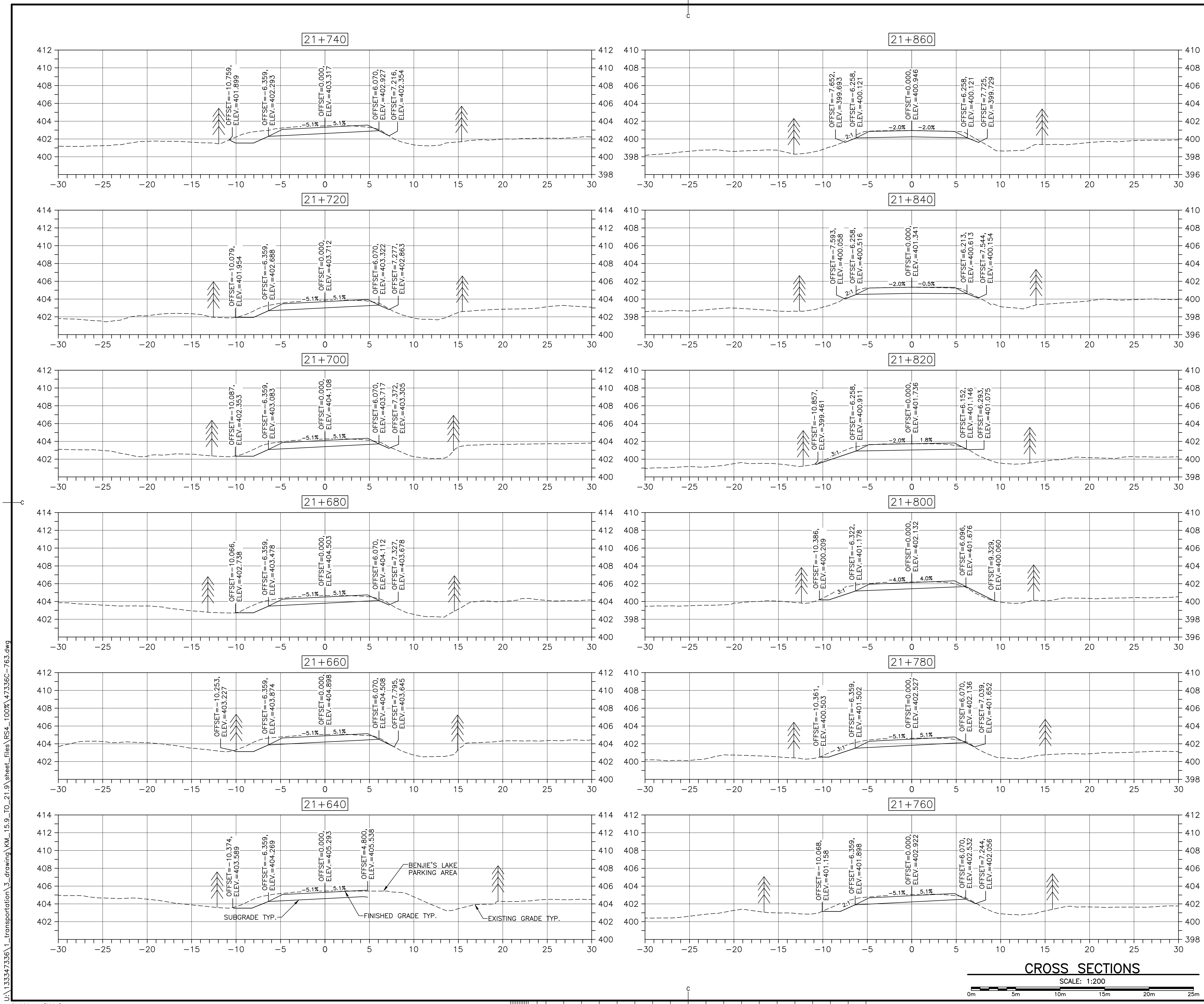
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PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

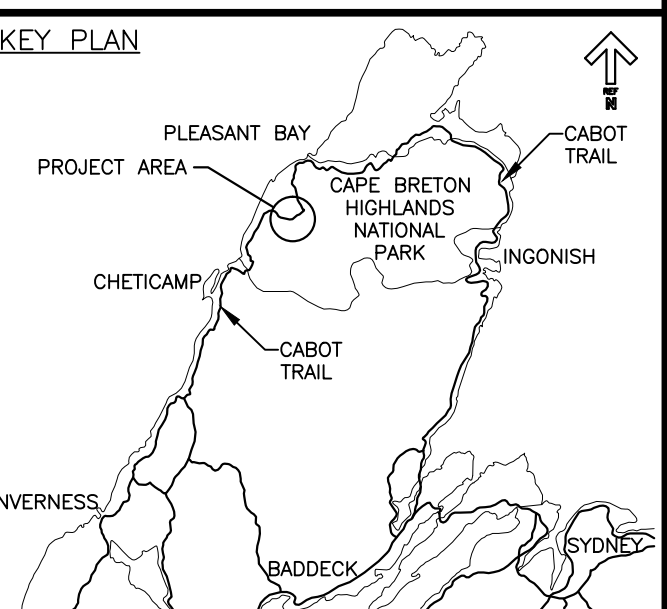
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drawing no. no. du dessin

C-68

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LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- CULVERT
- SIGN
- BUILDING
- BH-01 BOREHOLE
- BELL ALIANT JUNCTION BOX
- BELL ALIANT COMM. CABLES

LEGEND NEW

- EDGE OF PAVE
- ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- ASPHALT GUTTER
- DITCH LINE
- DITCH DRAINAGE
- DAYLIGHT (TOP)
- DAYLIGHT (TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
- CULVERT
- RIP-RAP



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revisions		date

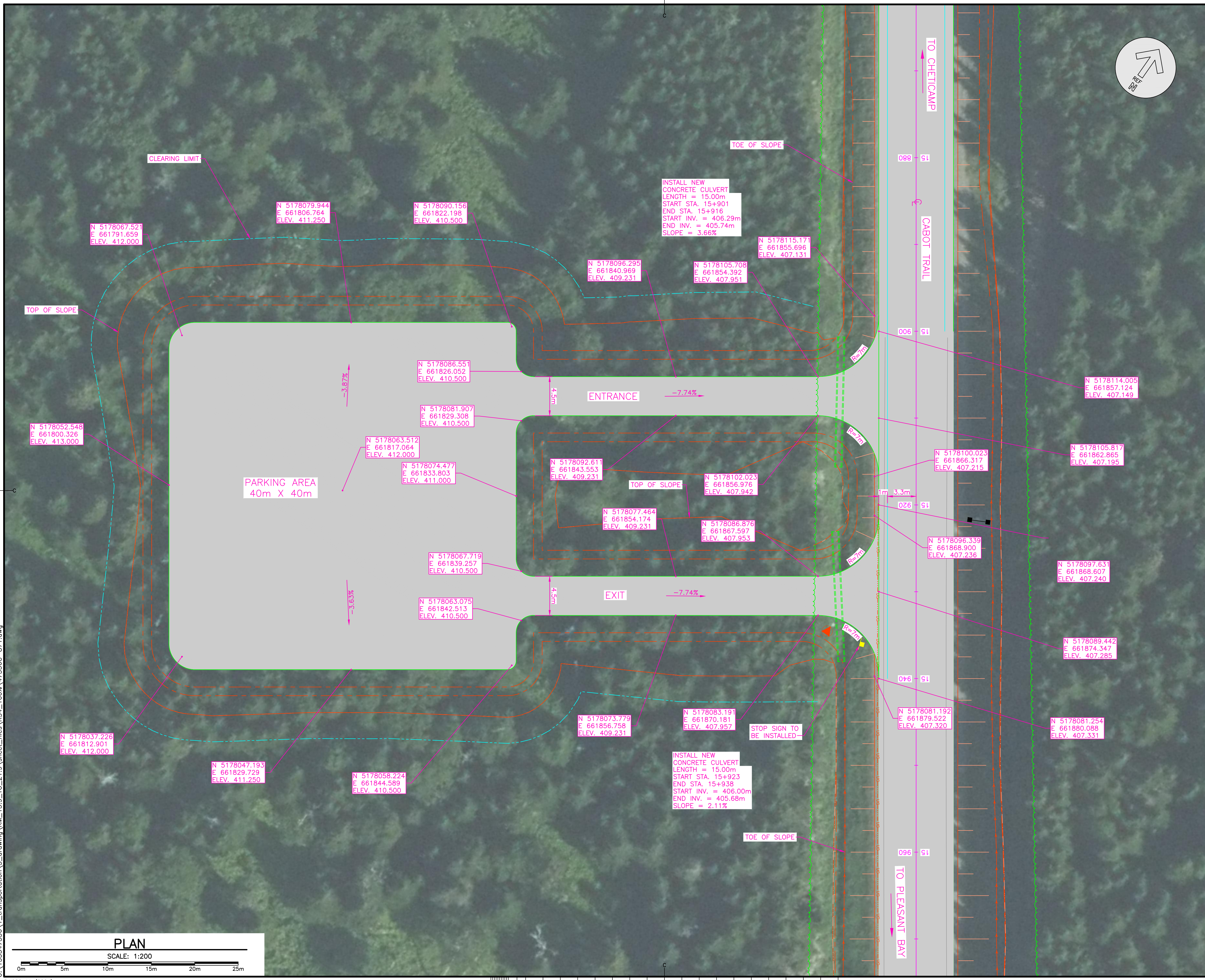
project projet

**CABOT TRAIL REHABILITATION
FRENCH TO MACKENZIE
KM 15.9 TO 21.9
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessin

**CANADA TRAIL
PARKING AREA
LAYOUT PLAN**

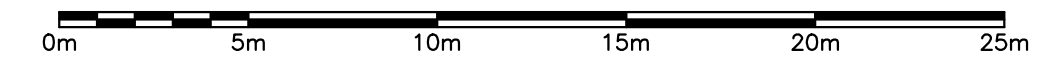
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Tender <i>Stantec</i>	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet
	1114
drawing no.	no. du dessin
	C-71

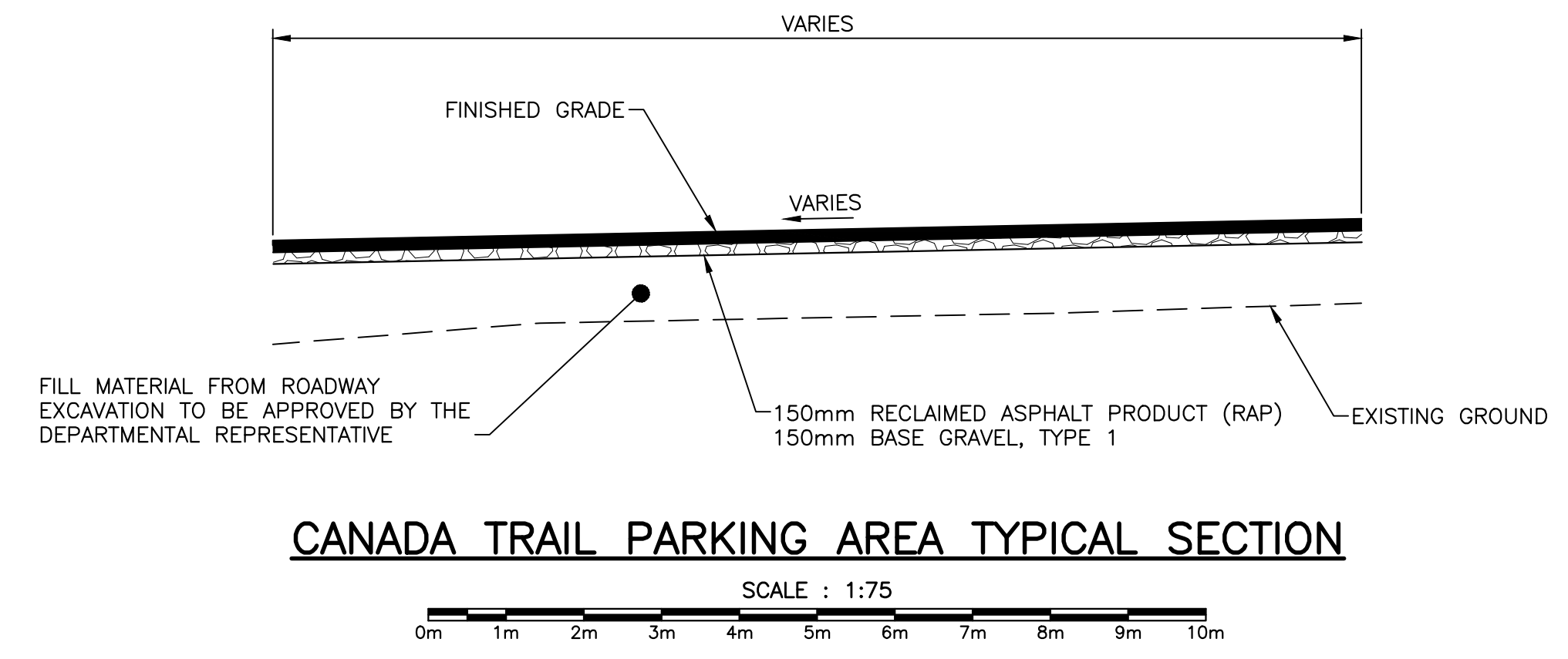
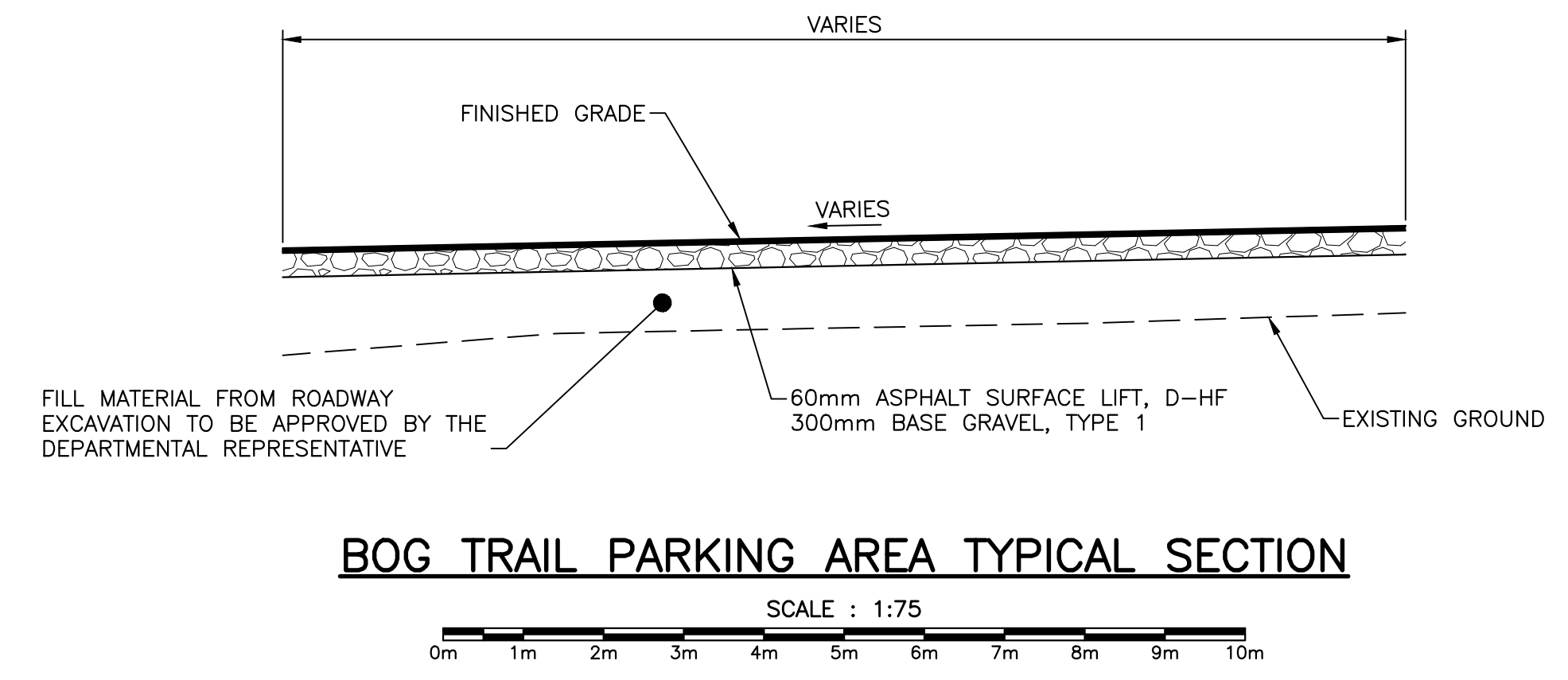
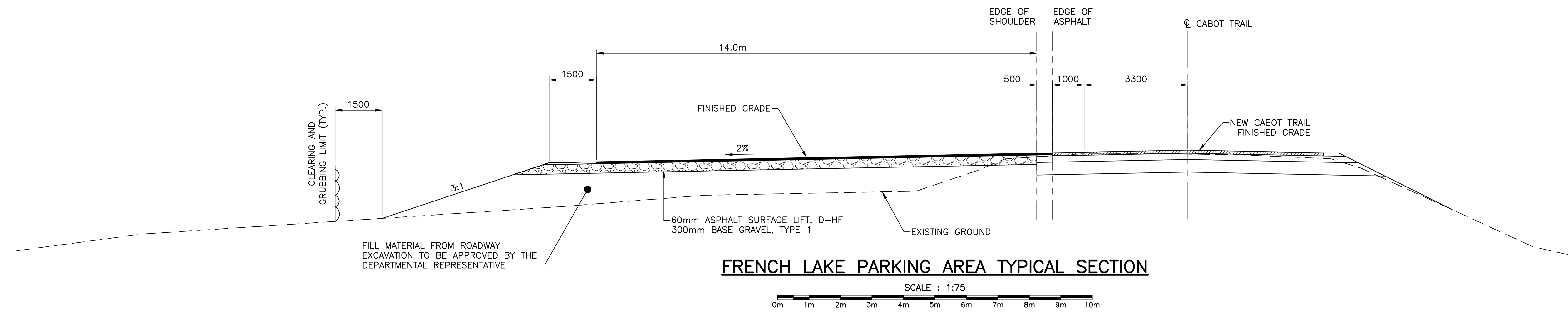
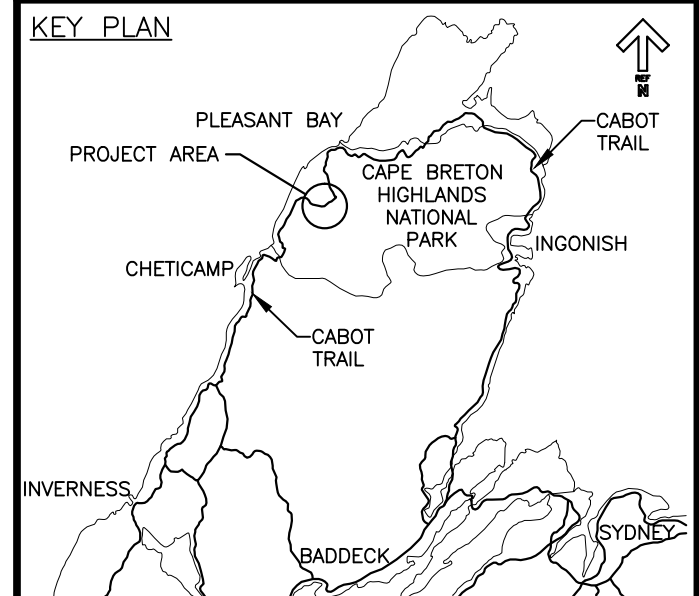


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PLAN

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project CABOT TRAIL REHABILITATION
 FRENCH TO MACKENZIE
 KM 15.9 TO 21.9
 CAPE BRETON HIGHLANDS
 NATIONAL PARK

PARKING AREA SECTIONS AND DETAILS

designed	DSC	conçu
date	FEB. 20, 2017	
drawn	JLD	dessiné
date	FEB. 20, 2017	
approved	RMB	approuvé
date	FEB. 20, 2017	
Tender	<i>[Signature]</i>	Soumission
PCA Project Manager	Administrateur de projets PCA	FEB. 20, 2017
project number	1114	no. du projet
drawing no.	C-72	no. du dessin

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