

Parcs  
Canada

Parks  
Canada

# ROCKY BARACHOIS BRIDGE REPLACEMENT GROS MORNE NATIONAL PARK NEWFOUNDLAND AND LABRADOR

## DRAWING LIST

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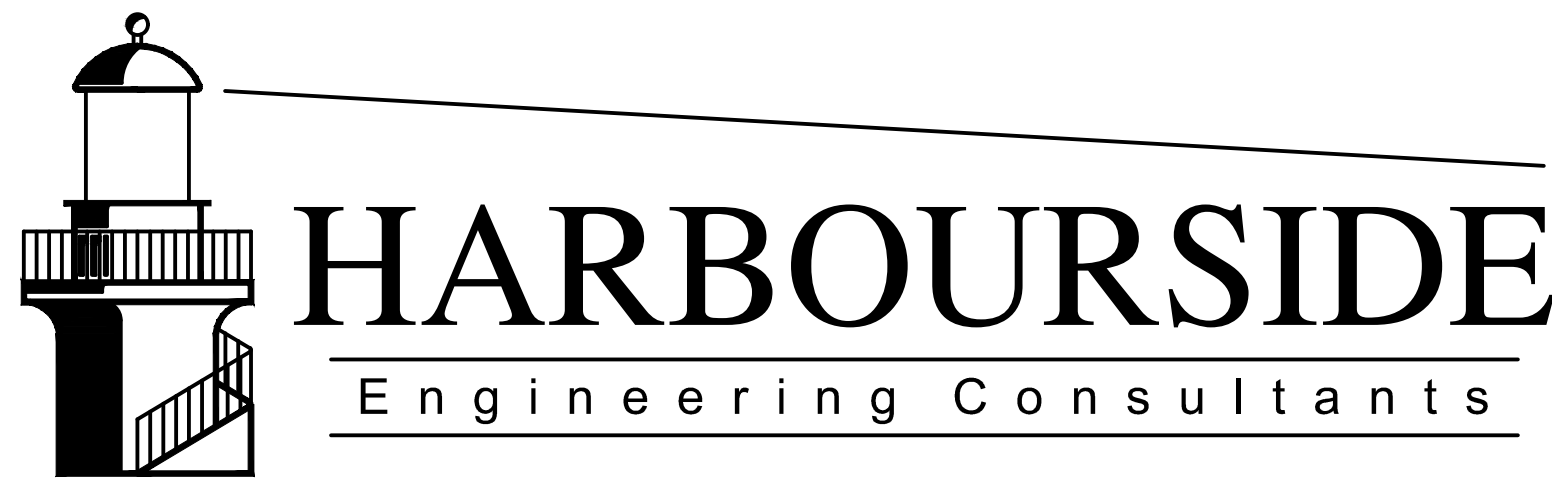
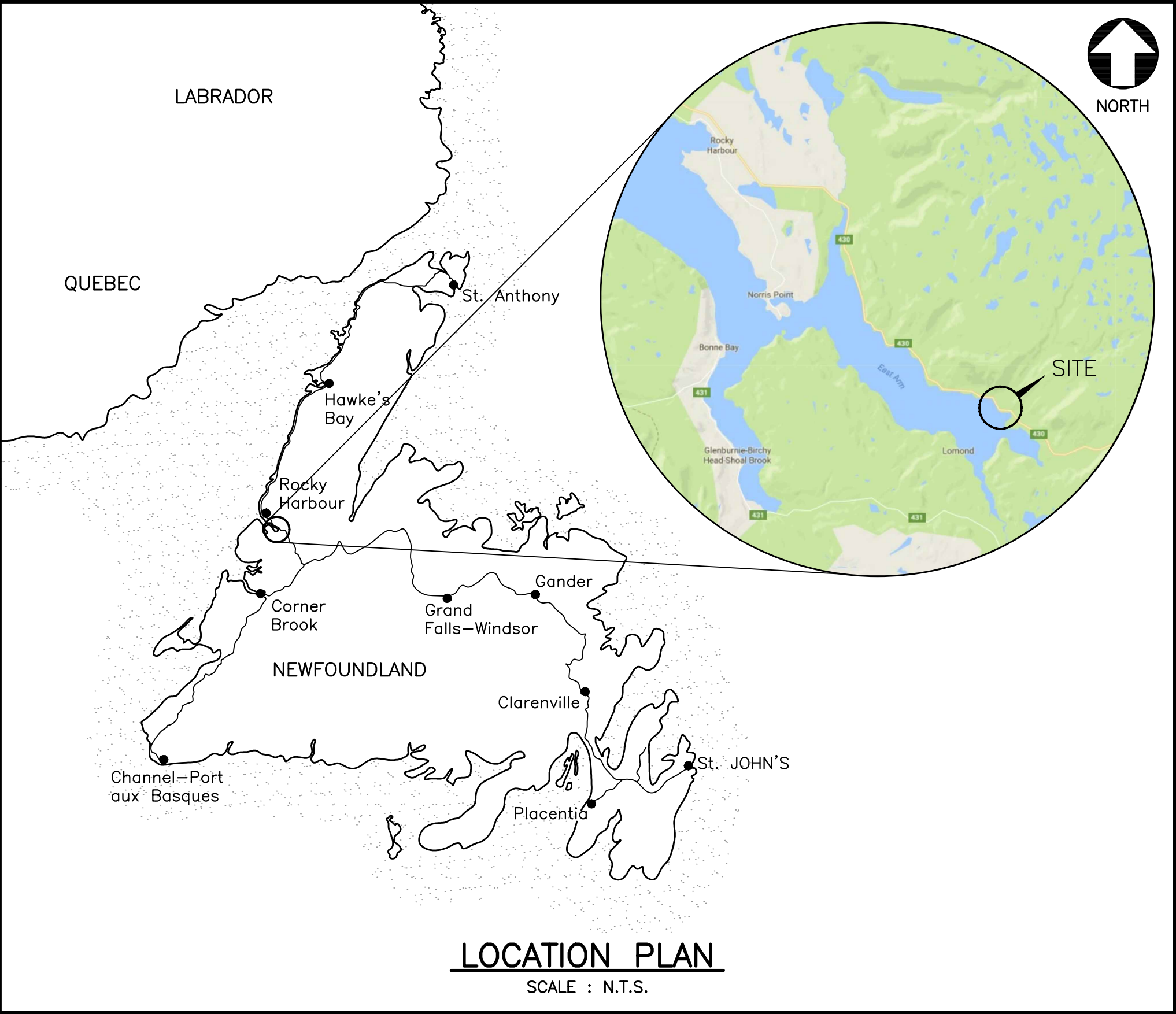
TW1	TEMPORARY RETAINING WALL PLAN AND ELEVATION
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### EXISTING CONDITIONS

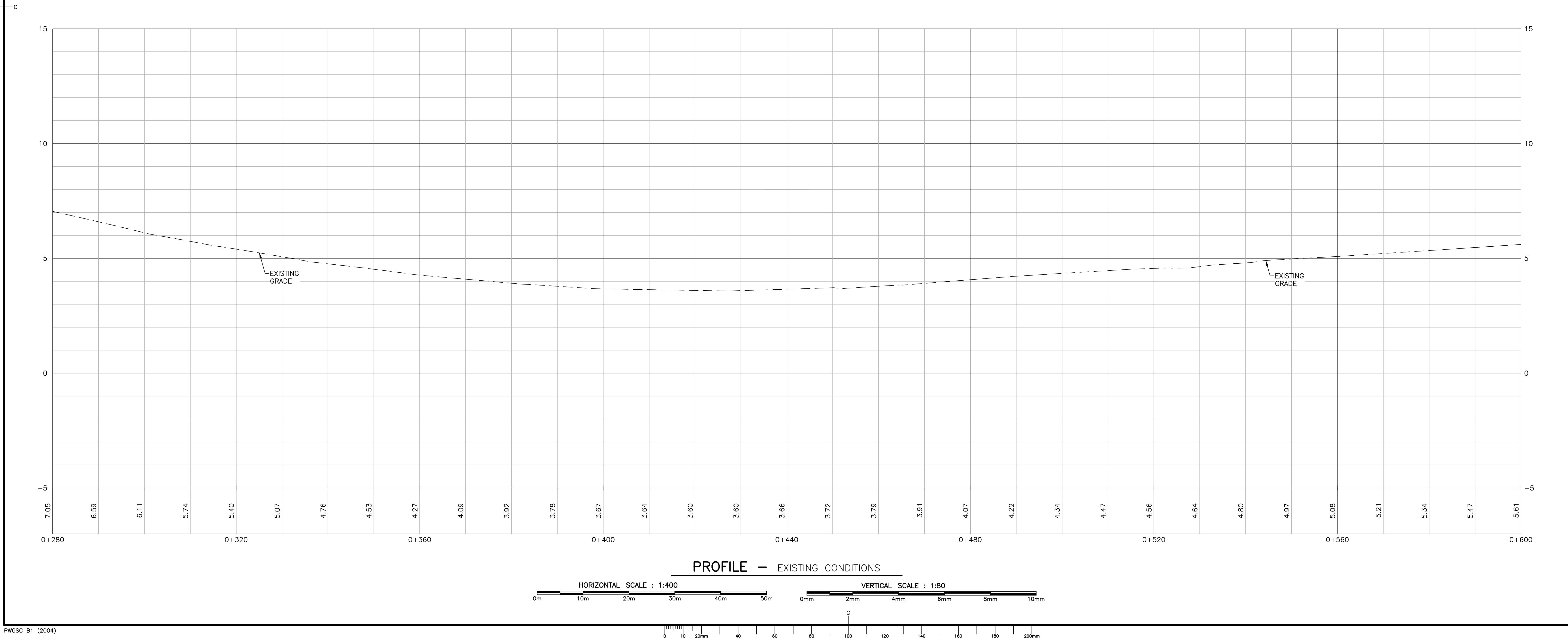
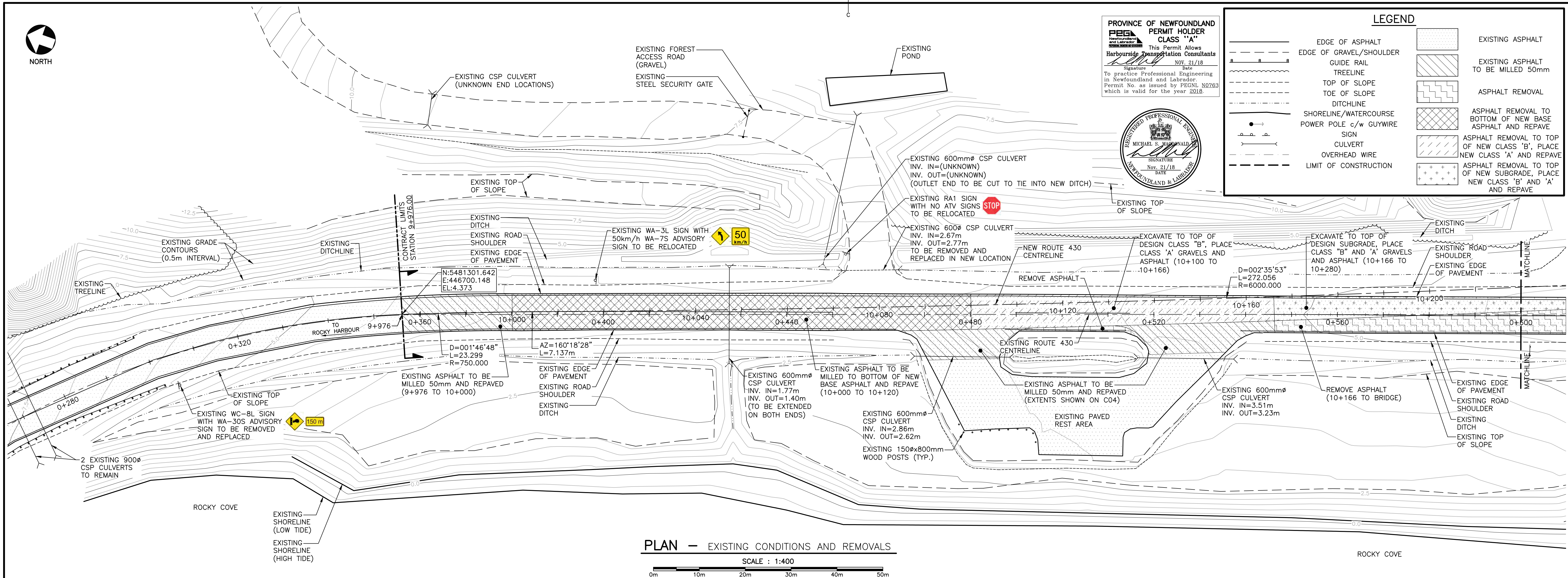
EX1	EXISTING BRIDGE GENERAL ARRANGEMENT
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### STRUCTURAL CONTINUED

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S27	BORELOGS SHEET 3 of 5
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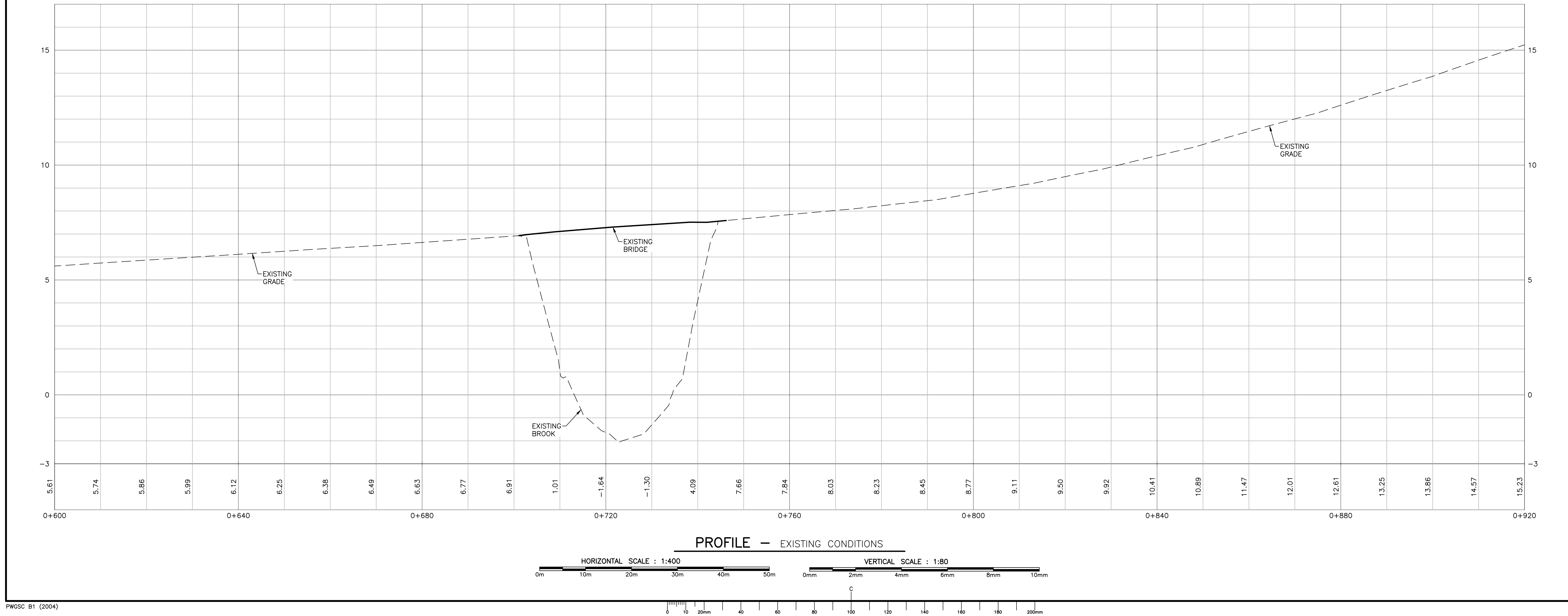
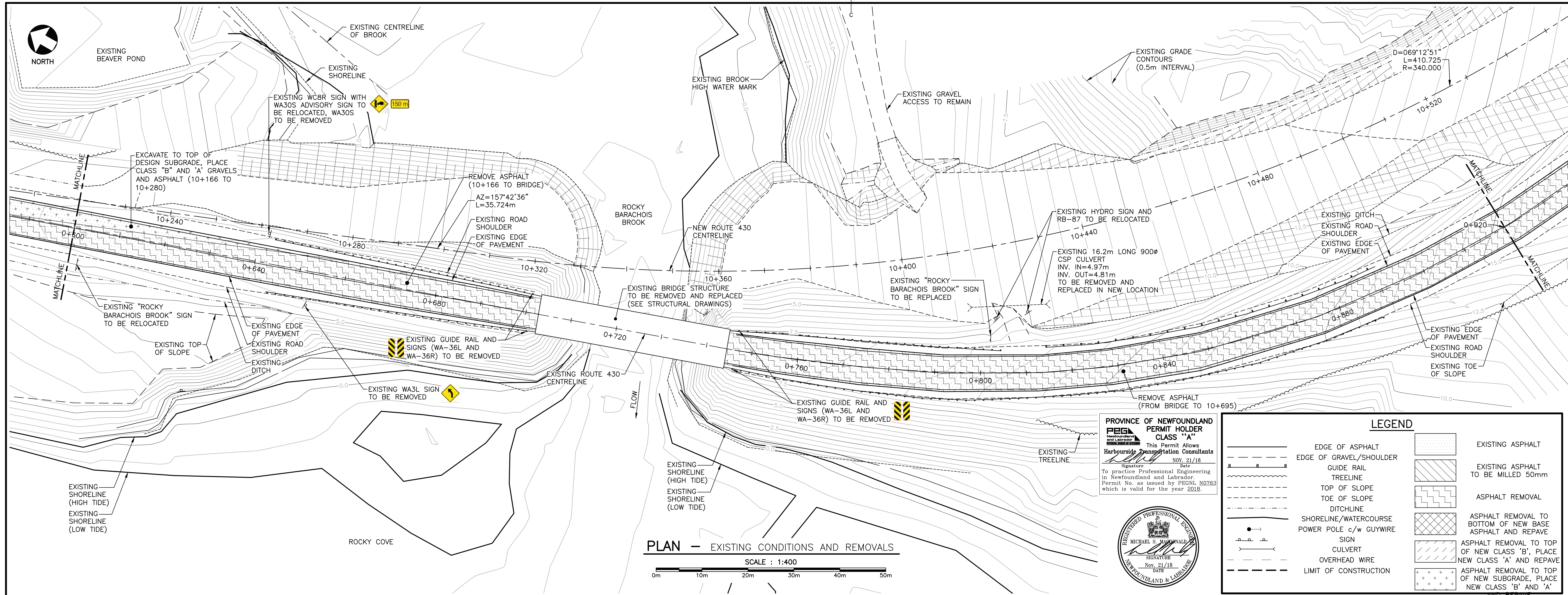




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	<b>Parcs Canada</b>	<b>Parks Canada</b>
 <div style="display: inline-block; vertical-align: middle;"> <b>HARBOURSIDE</b>  <small>Engineering Consultants</small> </div>		
 <div style="display: inline-block; vertical-align: middle;"> <b>HARBOURSIDE</b>  <small>Transportation Consultants</small> </div>		
<b>GENERAL NOTES:</b>		
1. ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.		
2. SURVEY REFERENCED HORIZONTALLY TO UTM ZONE 21 NORTH NAD83 (CSRS) AND VERTICALLY TO CGVD28 (HTV2.0 GEIOD MODEL).		
3. CONTROL IS DERIVED FROM MULTIPLE STATIC GPS OBSERVATIONS ON NAIL 1000 HAVING CO-ORDINATES OF: N=5481239.613m E=446746.809m EL=9.53m		
4. COORDINATES ARE GRID DERIVED FROM NAD83 ELLIPSOID USING THE MAPPING PROJECTION OF UNIVERSAL TRANSVERSE MERCATOR ZONE 21 HAVING A COMBINED GRID SCALE FACTOR OF 1/0.99963351.		
5. TOPOGRAPHIC SURVEY COMPLETED BY DESIGN POINT ENGINEERING AND SURVEYING ON SEPT 13-17, 2016.		
6. CONTOUR INTERVAL IS 0.5 METRE.		
7. FOR GEOTECHNICAL INFORMATION SEE REPORT BY HGC DATED AUG. 31, 2017.		
8. CONSTRUCTION SIGNAGE FROM HIGHWAY 430 RE-ALIGNMENT PROJECT TO REMAIN IN PLACE FOR DURATION OF CURRENT PROJECT.		
0	ISSUED FOR TENDER	NOV. 21 2018
revisions		date
project	<b>ROCKY BARACHOIS BRIDGE REPLACEMENT</b>  <b>GROS MORNE NATIONAL PARK</b>	project
drawing	<b>EXISTING CONDITIONS/REMOVALS PLAN (SHEET 1 OF 3)</b>	dessin
designed	TIM JORDAN	conçu
date	AUGUST 2017	
drawn	CORY BAKER	dessiné
date	AUGUST 2017	
approved	MICHAEL MACDONALD	approuvé
date	AUGUST 2017	
tender		Soumission
PCA Project Manager	Administrateur de projets APC	
project number	1845	no. du projet
drawing no.	C01	no. du dessin





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Canada

Parks  
Canada

GENERAL NOTES:

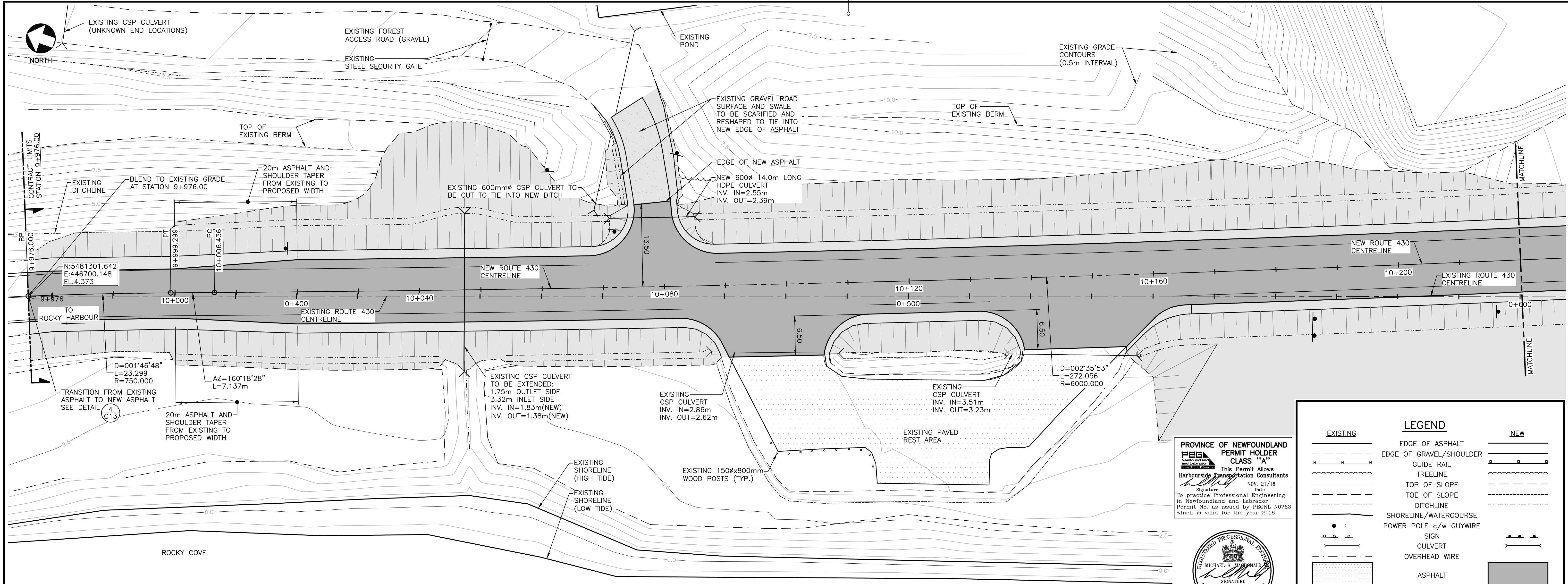
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revisions		date
project	ROCKY BARACHOIS BRIDGE REPLACEMENT	
	GROS MORNE NATIONAL PARK	
drawing	dessein	
	EXISTING CONDITIONS/REMOVALS PLAN (SHEET 2 OF 3)	
designed	TIM JORDAN conçu	
date	AUGUST 2017	
drawn	CORY BAKER dessiné	
date	AUGUST 2017	
approved	MICHAEL MACDONALD approuvé	
date	AUGUST 2017	
Tender	Soumission	
PCA Project Manager	Administrateur de projets APC	
project number	1845	
drawing no.	C02	

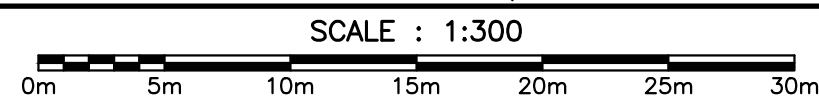






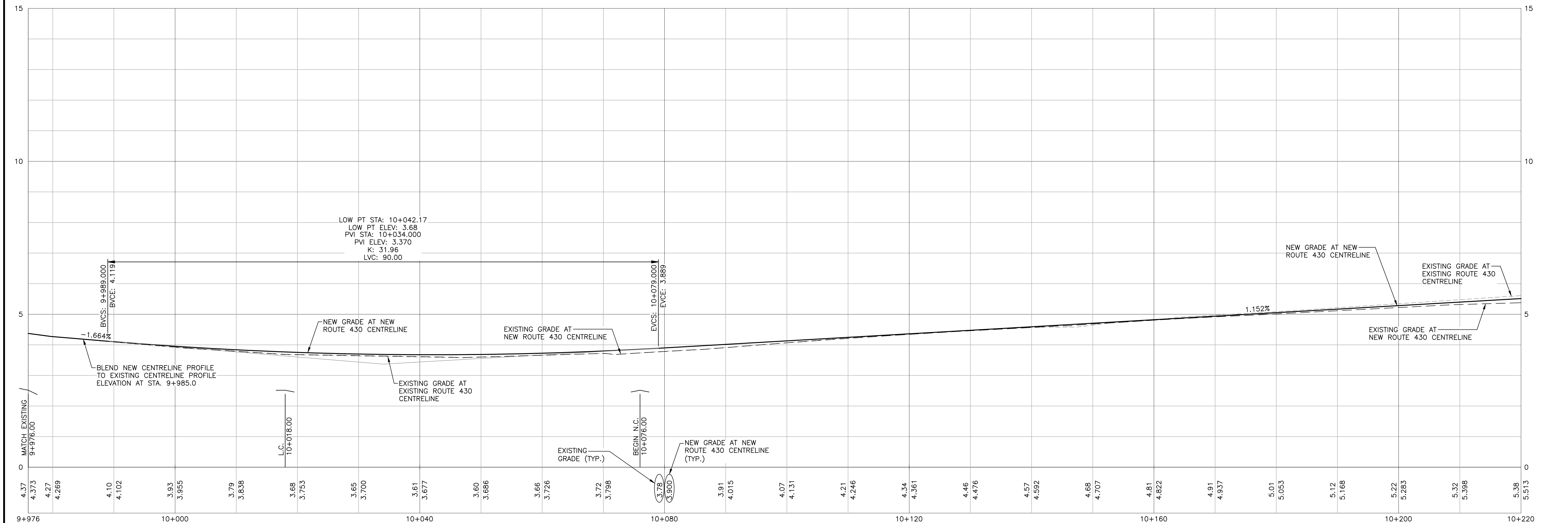
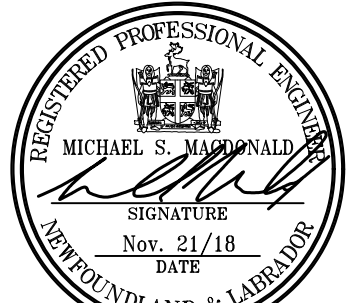


PLAN — NEW ROUTE 430 (10+000 TO 10+220)



LEGEND		
EXISTING		NEW
	EDGE OF ASPHALT	
	GUIDE RAIL	
	TOP OF SLOPE	
	TOE OF SLOPE	
	SHORELINE/WATERCOURSE	
	SIGN	
	OVERHEAD WIRE	
	EARTHWORKS	

PROVINCE OF NEWFOUNDLAND  
PEGL PERMIT HOLDER  
CLASS "A"  
This Permit Allows  
Harbourside Transportation Consultants  
To practice Professional Engineering  
in Newfoundland and Labrador  
Permit No. as issued by PEGNL N0763  
which is valid for the year 2018.



PROFILE — NEW ROUTE 430 (10+000 TO 10+220)



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- HORIZONTAL ALIGNMENT CONTROL POINTS CONSIST OF:  
PT — POINT OF TANGENCY  
PC — POINT OF CURVATURE  
PRC — POINT OF REVERSE CURVATURE
- LINE DATA:  
AZ — AZIMUTH  
L — LENGTH
- CURVE DATA:  
D — DELTA  
L — LENGTH  
R — RADIUS

0	ISSUED FOR TENDER	NV. 21 2018
revisions		date

project  
**ROCKY BARACHOIS  
BRIDGE REPLACEMENT**  
**GROS MORNE  
NATIONAL PARK**

drawing  
**NEW ROUTE 430  
STA. 9+976 TO 10+220**

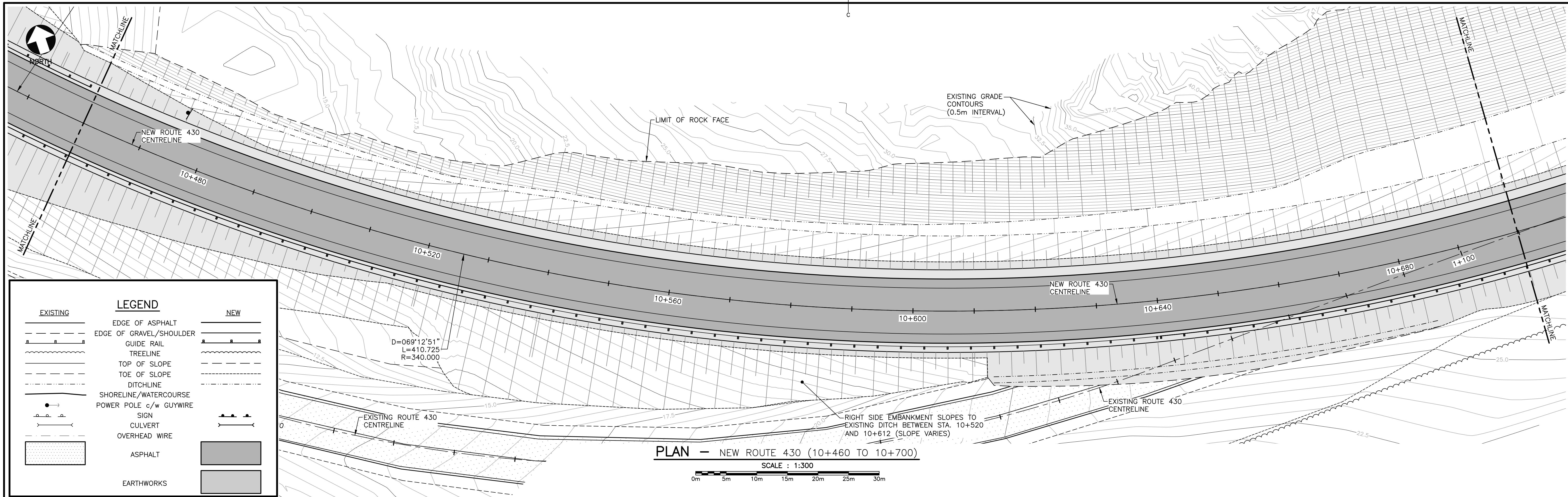
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date	AUGUST 2017	
Tender		Soumission
PCA Project Manager	Administrateur de projets APC	
project number	1845	no. du projet

drawing no. **C04** no. du dessin









EXISTING

NEW

EDGE OF ASPHALT

EDGE OF GRAVEL/SHOULDER

GUIDE RAIL

TREELINE

TOP OF SLOPE

TOE OF SLOPE

DITCHLINE

SHORELINE/WATERCOURSE

POWER POLE c/w GUYWIRE

SIGN

CULVERT

OVERHEAD WIRE

ASPHALT

EARTHWORKS

EDGE OF ASPHALT

EDGE OF GRAVEL/SHOULDER

GUIDE RAIL

TREELINE

TOP OF SLOPE

TOE OF SLOPE

DITCHLINE

SHORELINE/WATERCOURSE

POWER POLE c/w GUYWIRE

SIGN

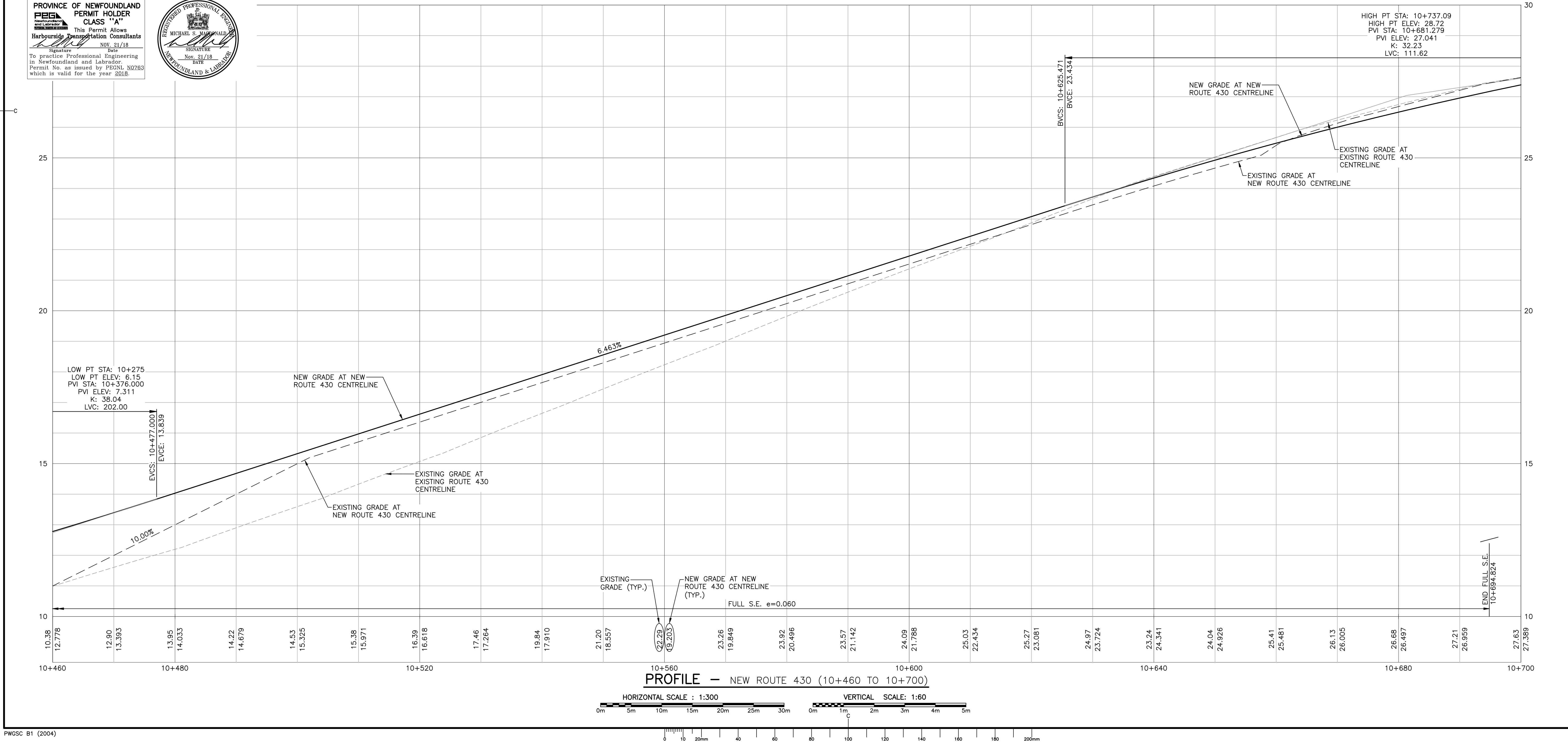
CULVERT

OVERHEAD WIRE

ASPHALT

EARTHWORKS

PROVINCE OF NEWFOUNDLAND  
PERMIT HOLDER  
CLASS "A"  
This Permit Allows  
Harbourside Transportation Consultants  
Signature: NOV. 21/18  
To practice Professional Engineering  
in Newfoundland and Labrador  
Permit No. as issued by PEGNL 00763  
which is valid for the year 2018.



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Engineering Consultants

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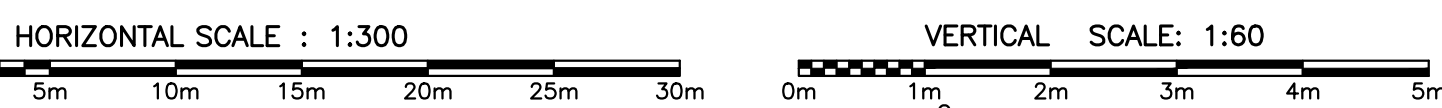
HORIZONTAL ALIGNMENT CONTROL POINTS CONSIST OF:  
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PC - POINT OF CURVATURE  
PRC - POINT OF REVERSE CURVATURE

LINE DATA:  
AZ - AZIMUTH  
L - LENGTH

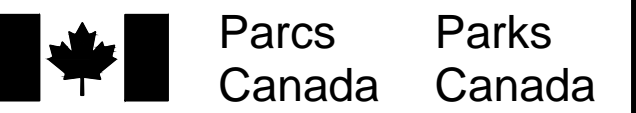
CURVE DATA:  
D - DELTA  
L - LENGTH  
R - RADIUS

0	ISSUED FOR TENDER	NOV. 21 2018
revisions		date
project	ROCKY BARACHOIS BRIDGE REPLACEMENT	project
drawing	GROS MORNE NATIONAL PARK	design
designed	TIM JORDAN	conçu
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Tender		Soumission
PCA Project Manager	Administrateur de projets APC	
project number	1845	no. du projet
drawing no.	C06	no. du dessin









<b>PROVINCE OF NEWFOUNDLAND</b>	
 <b>PEGNL</b> Professional Engineering and Librarians Association of Newfoundland and Labrador <small>incorporated under the Companies Act</small>	<b>PERMIT HOLDER</b> <b>CLASS "A"</b>
<b>This Permit Allows</b>	
<b>Harbourside Transportation Consultants</b>	
 Signature	<b>NOV. 21/18</b> Date
to practice Professional Engineering in Newfoundland and Labrador. Permit No. as issued by PEGNL <b>N0763</b> which is valid for the year <b>2018</b> .	

ROCKY BARACHOIS

GROS MORNE  
NATIONAL PARK

## NEW SIGNAGE AND PAVEMENT MARKING PLAN

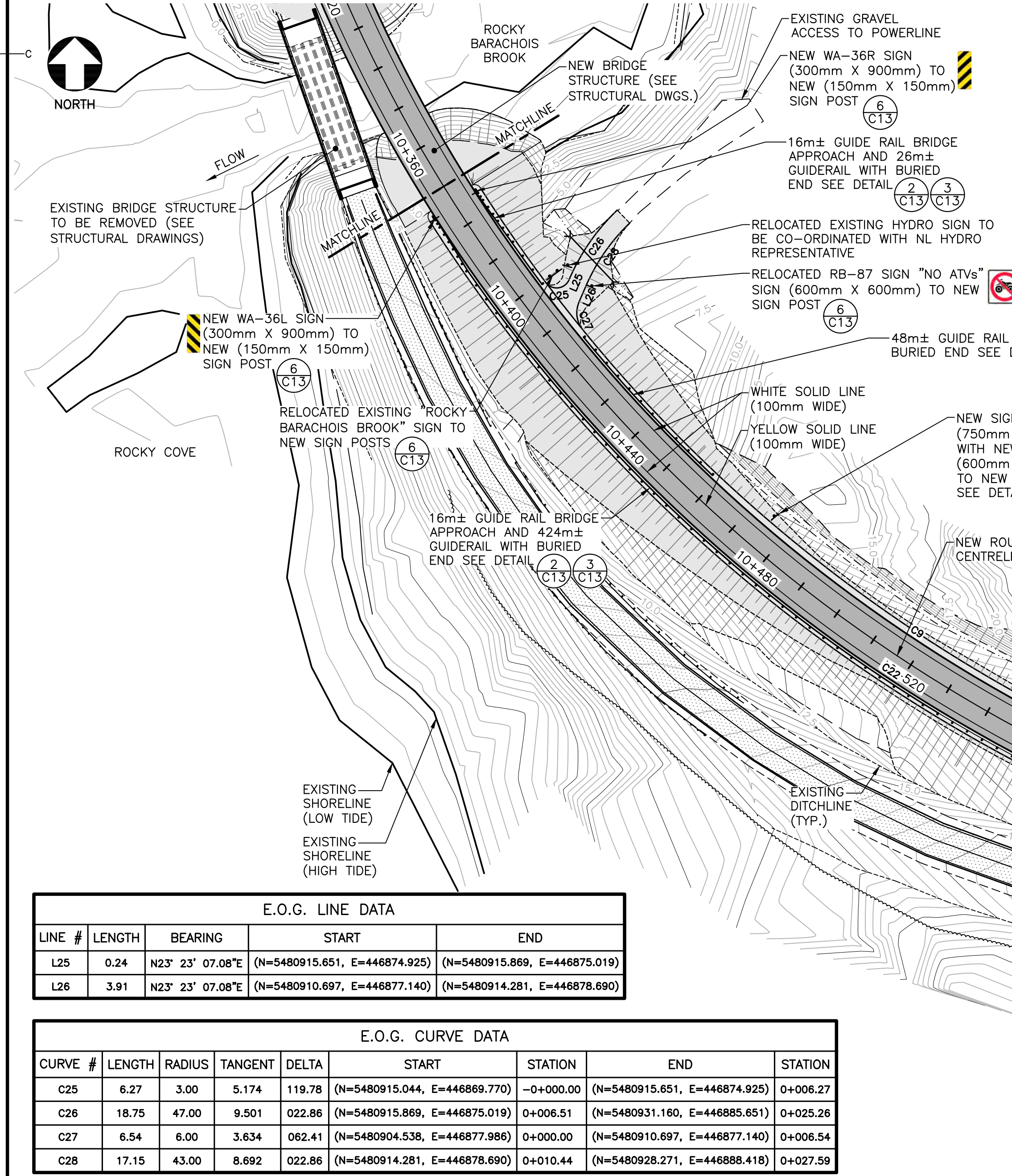
mission

APC

projet

dessin


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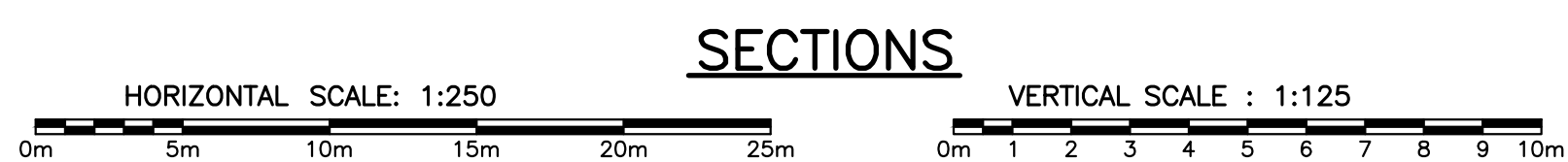
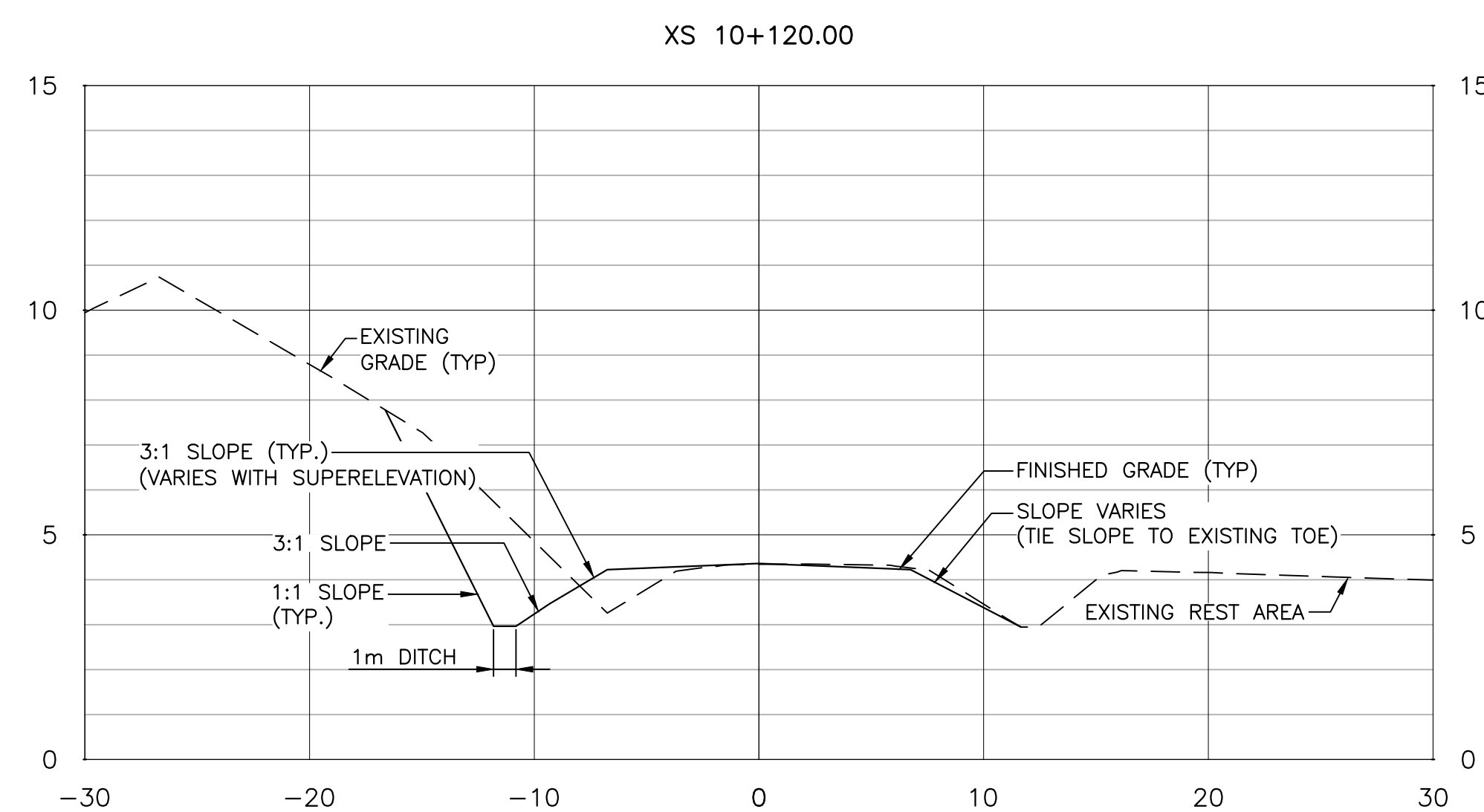
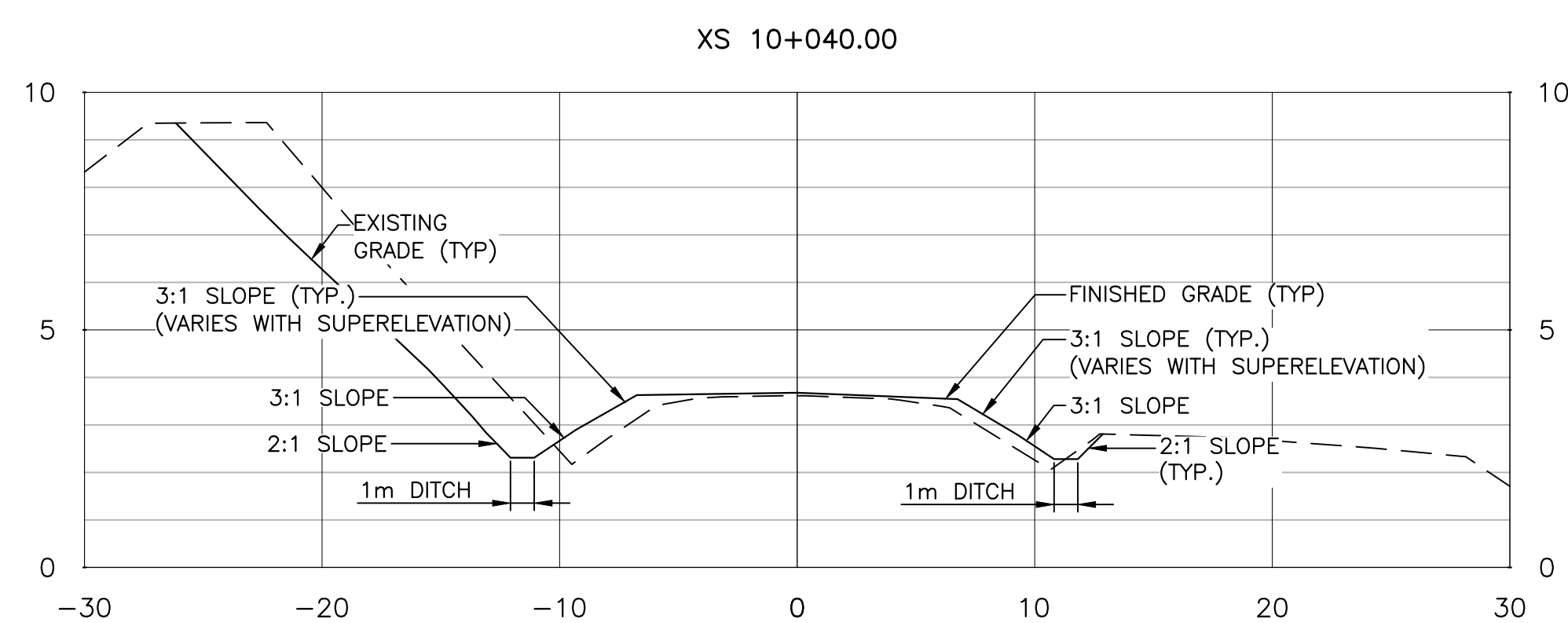
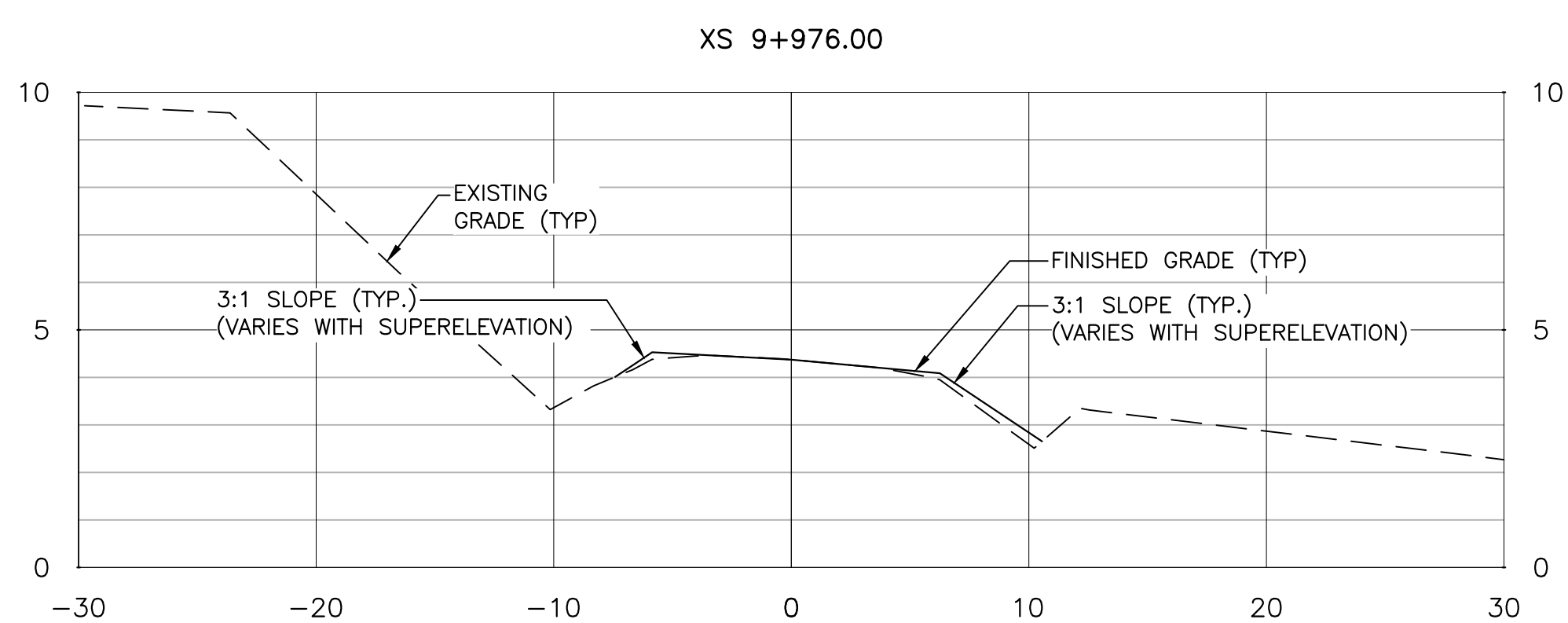
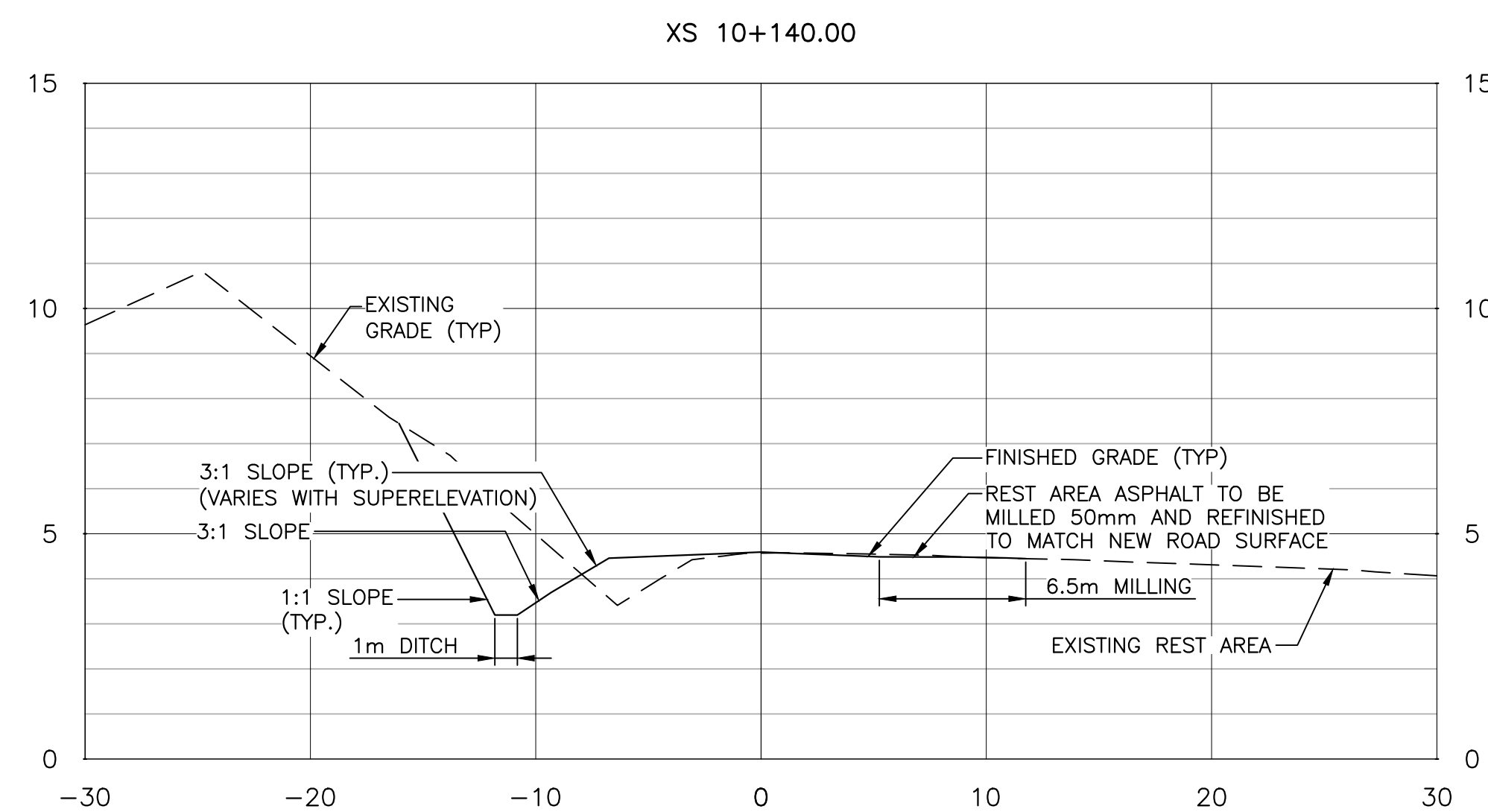
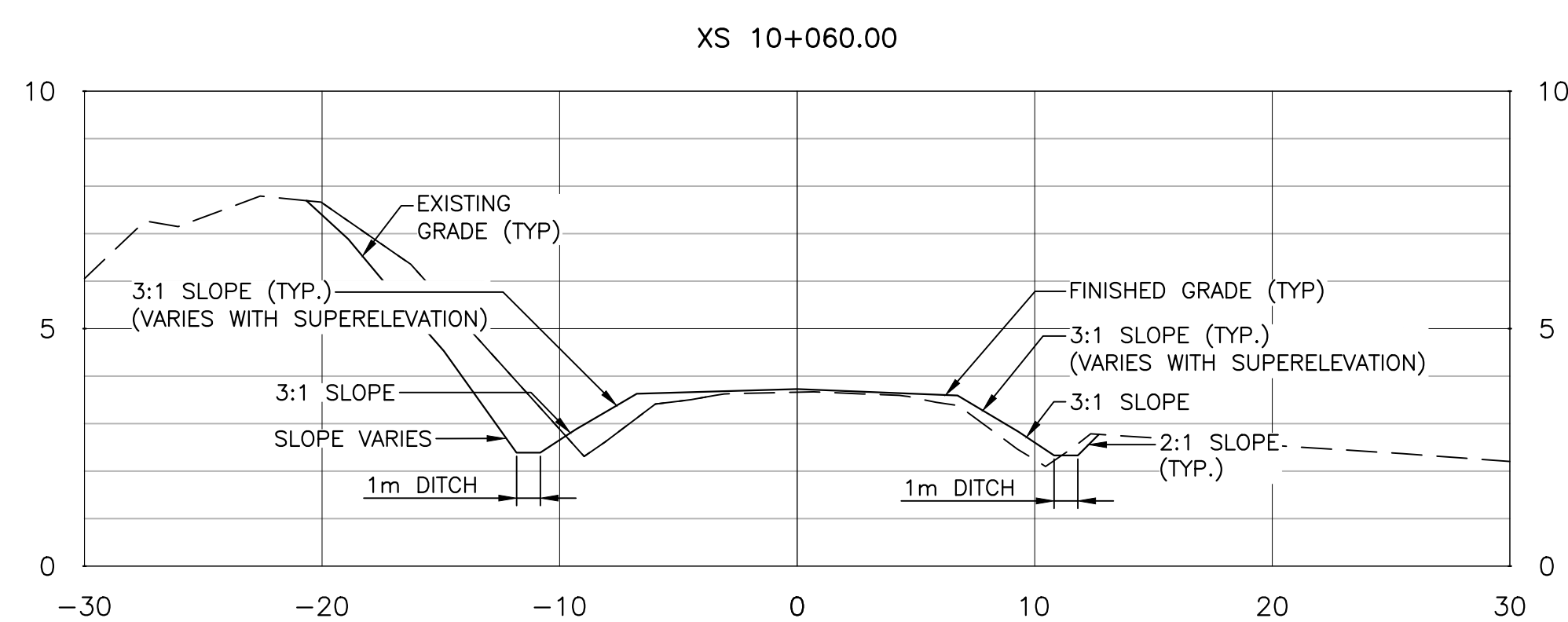
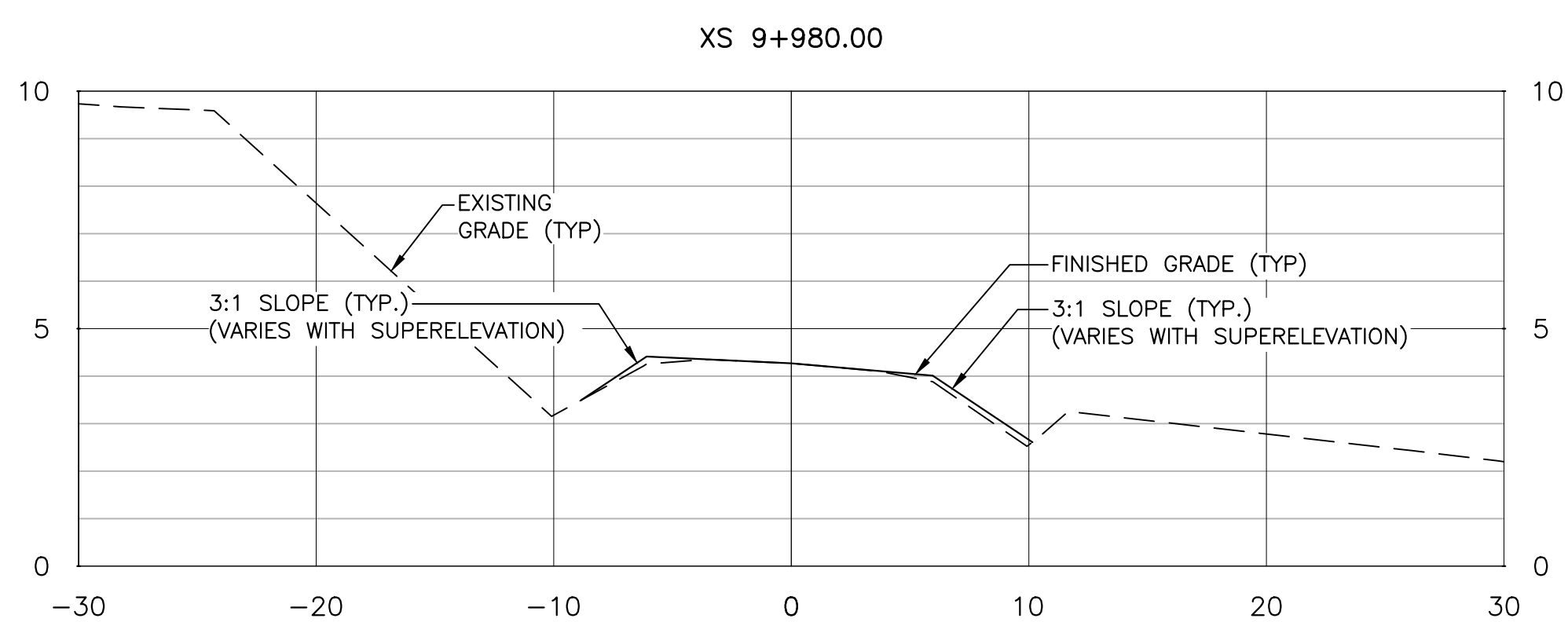
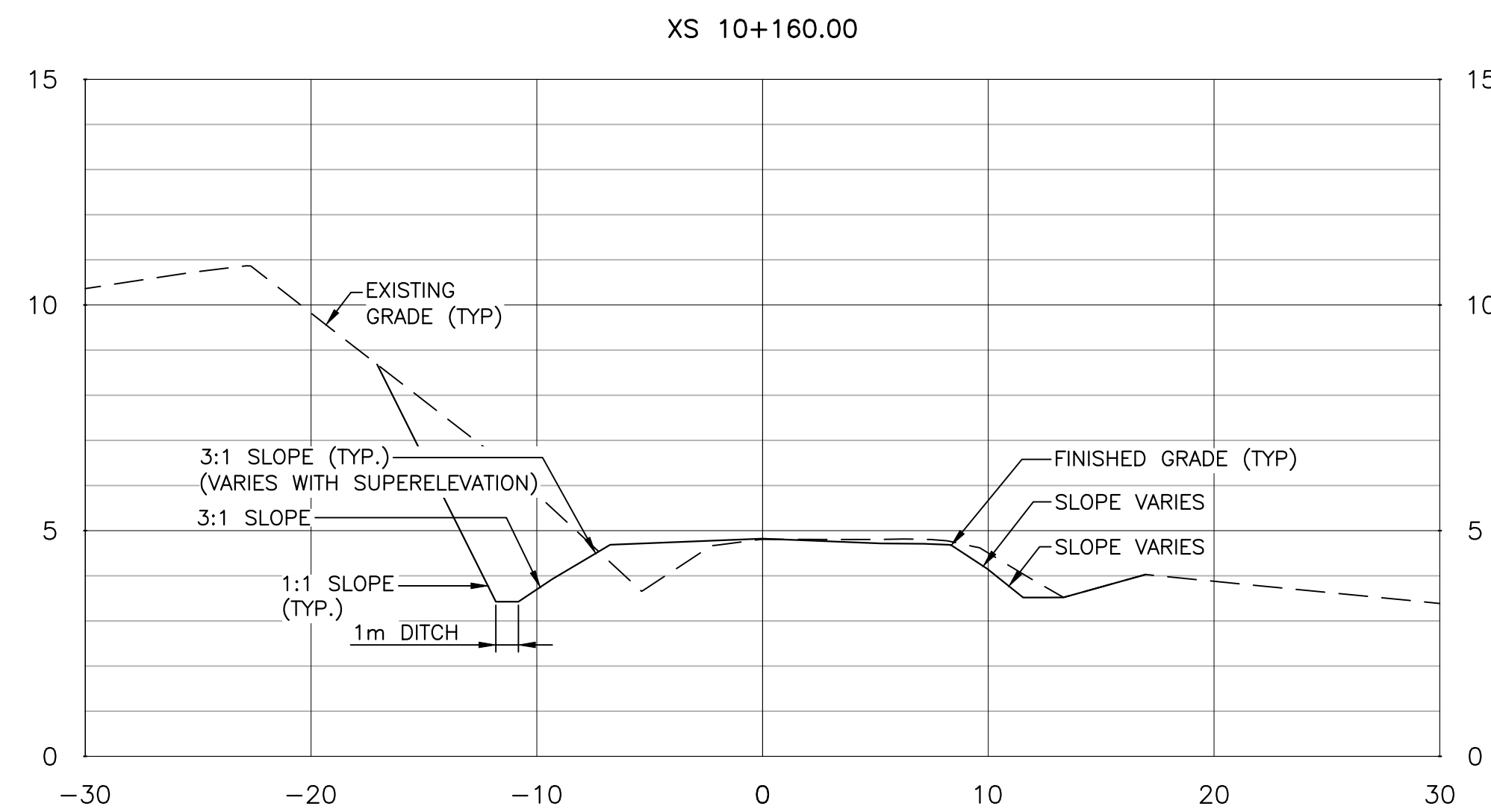
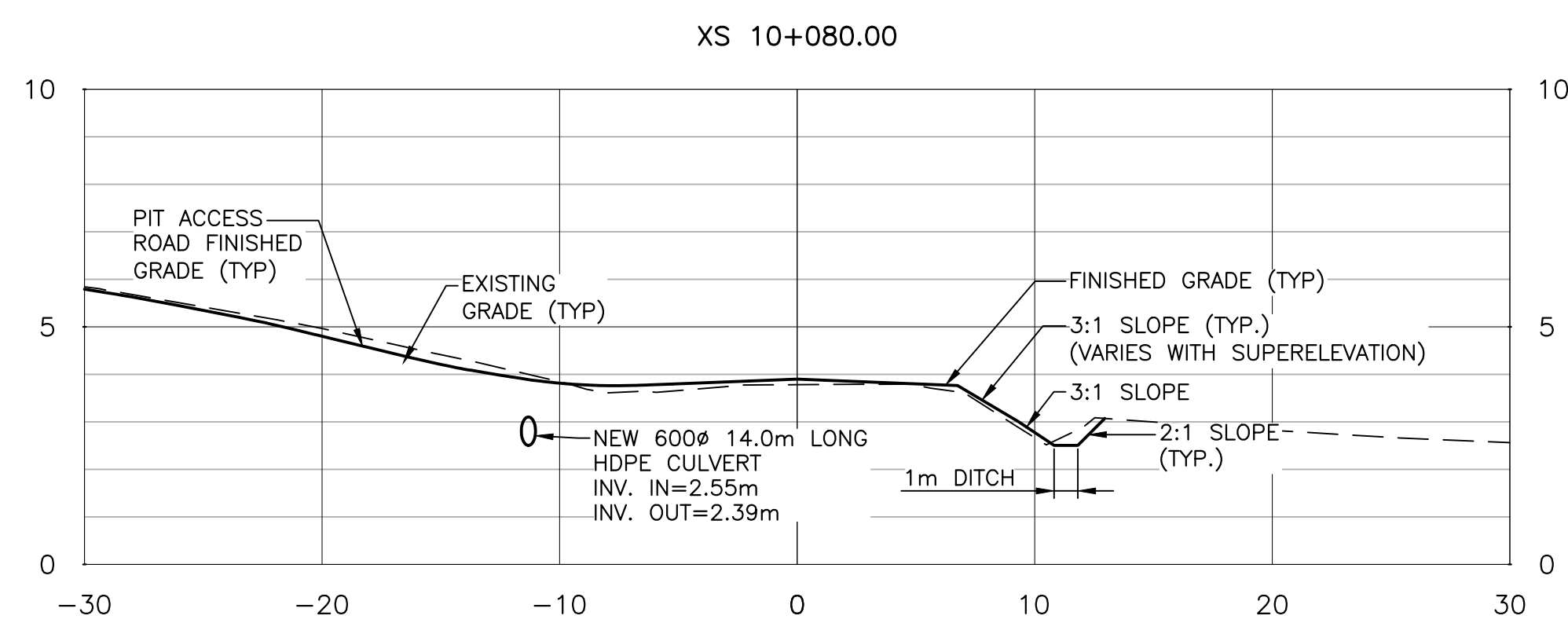
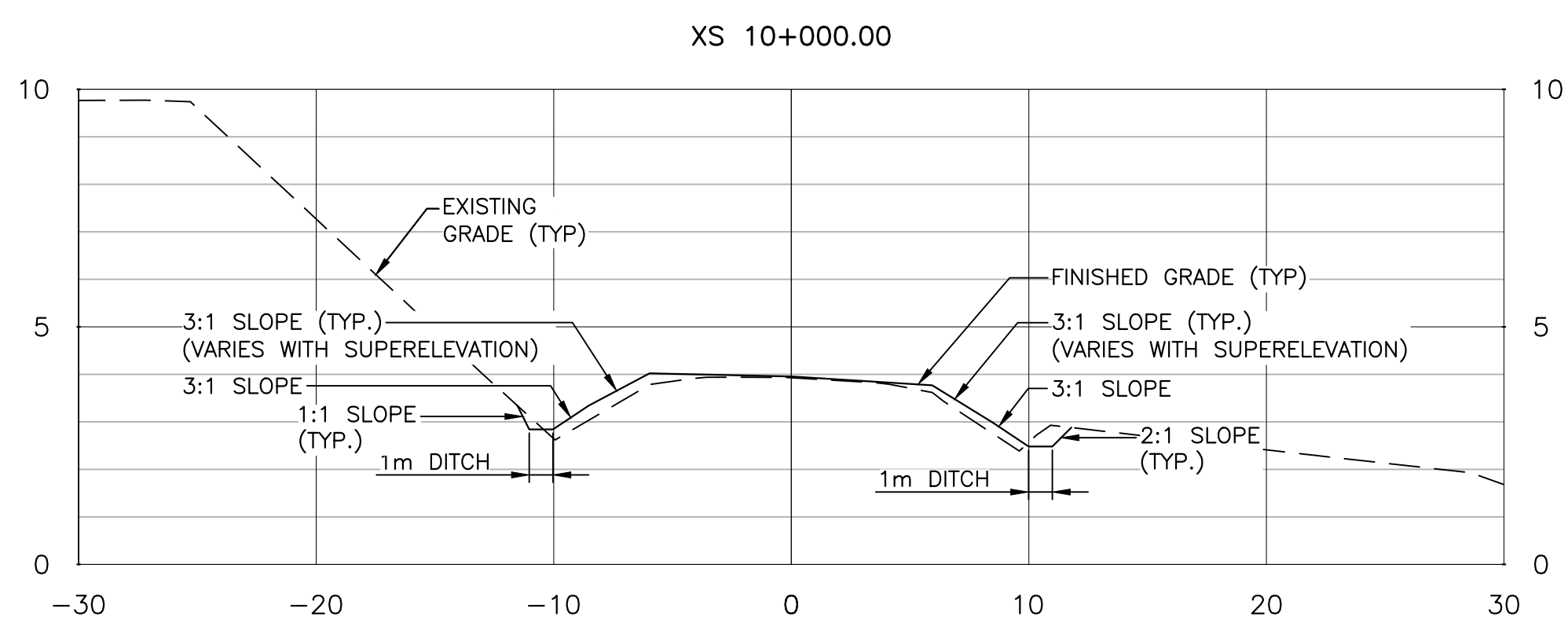
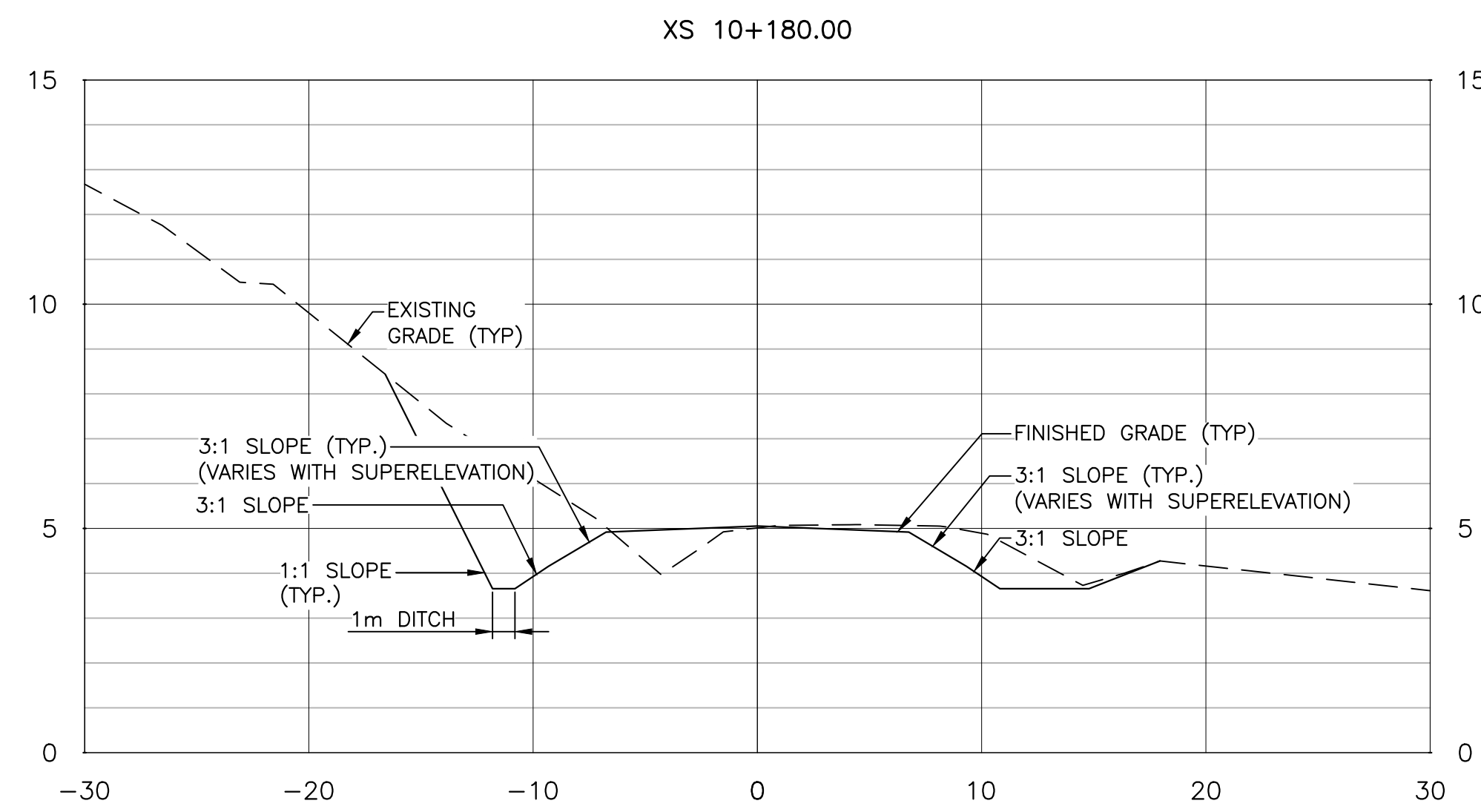
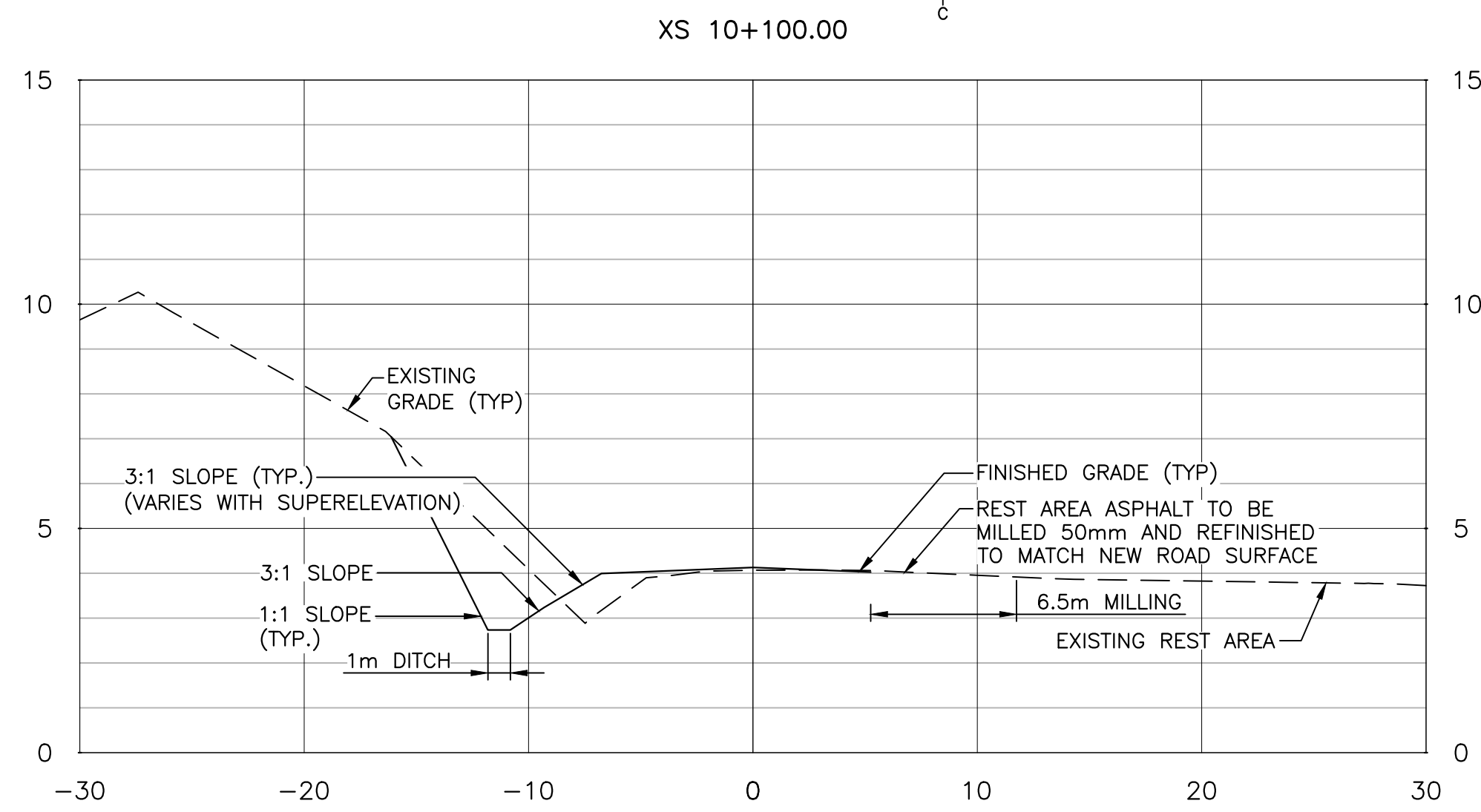
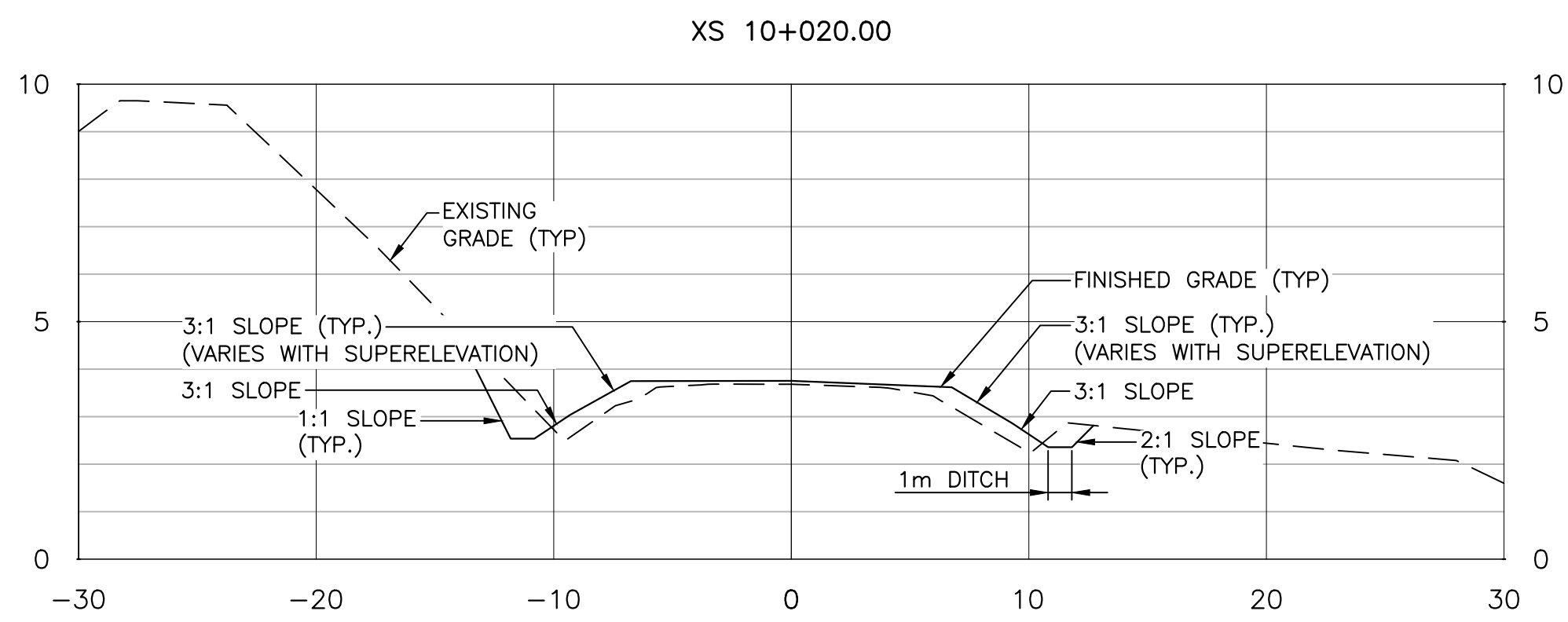
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LINE #	LENGTH	BEARING	START	END	
L17	6.43	S64° 45' 21.03"E	(N=5481128.472, E=4467515.634)	(N=5481126.732, E=4467575.447)	
L18	35.72	S22° 17' 24.48"E	(N=5481017.141, E=4468003.335)	(N=5480984.086, E=446816.885)	
L19	0.66	N89° 19' 42.52"E	(N=5480769.862, E=447140.382)	(N=5480769.820, E=447141.062)	
L20	11.98	N84° 17' 44.54"E	(N=5480770.309, E=447149.834)	(N=5480771.501, E=447161.762)	
L21	1.33	N88° 29' 44.54"E	(N=5480771.962, E=447169.081)	(N=5480771.997, E=447170.411)	
L22	21.57	N88° 42' 22.93"E	(N=5480771.997, E=447170.411)	(N=5480772.484, E=447191.975)	
L23	23.82	N88° 40' 28.37"E	(N=5480772.484, E=447191.975)	(N=5480773.035, E=447215.789)	
L24	16.73	N88° 25' 20.12"E	(N=5480773.035, E=447215.789)	(N=5480773.496, E=447232.512)	

E.O.P. CURVE DATA									
CURVE #	LENGTH	RADIUS	TANGENT	DELTA	START	STATION	END	STATION	STATION
C11	7.20	150.00	3.599	002.75	(N=5480780.012, E=447161.603)	+0.659.07	(N=5480780.029, E=447168.799)	+0.666.27	
C12	3.66	328.36	1.829	000.64	(N=5481300.105, E=446896.240)	+0.000.00	(N=5481296.728, E=446897.645)	+0.003.66	
C13	8.05	150.00	4.026	003.07	(N=5481276.857, E=446704.998)	+0.024.85	(N=5481269.208, E=446707.506)	+0.032.90	
C14	8.64	150.00	4.321	003.00	(N=5481257.999, E=446710.851)	+0.044.59	(N=5481249.796, E=446713.559)	+0.053.23	
C15	52.63	6005.25	26.313	006.50	(N=5481249.153, E=446713.792)	+0.053.92	(N=5481199.755, E=446713.936)	+0.106.54	
C16	8.23	7.50	4.586	002.89	(N=5481199.755, E=446731.936)	+0.106.54	(N=5481192.092, E=446730.349)	+0.114.77	
C17	10.77	7.50	6.555	082.30	(N=5481175.681, E=446734.010)	+0.000.00	(N=5481171.026, E=446742.714)	+0.010.77	
C18	17.93	6005.25	8.964	000.17	(N=5481171.026, E=446742.714)	+0.010.77	(N=5481154.266, E=446749.080)	+0.028.70	
C19	10.77	7.50	6.554	082.30	(N=5481154.266, E=446749.080)	+0.028.70	(N=5481145.007, E=446745.661)	+0.039.47	
C20	5.70	7.50	2.998	043.55	(N=5481126.732, E=446757.447)	+0.006.43	(N=5481122.661, E=446761.240)	+0.012.13	

SCALE : 1:750

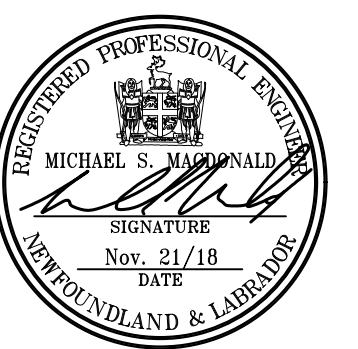






GENERAL NOTES:  
1. FOR GENERAL NOTES SEE DRAWING C01.

PROVINCE OF NEWFOUNDLAND  
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This Permit Allows  
Harbourside Transportation Consultants  
Signature: MICHAEL S. MACDONALD  
Date: NOV. 21/18  
To practice Professional Engineering  
in Newfoundland and Labrador.  
Permit No. as issued by PEGNL N07263  
which is valid for the year 2018.



0	ISSUED FOR TENDER	NOV. 21 2018
revisions		date

project  
ROCKY BARACHOIS  
BRIDGE REPLACEMENT  
GROS MORNE  
NATIONAL PARK

drawing  
dessin

CROSS SECTIONS  
(SHEET 1 OF 4)

designed	TIM JORDAN	conçu
date	AUGUST 2017	
drawn	CORY BAKER	dessiné
date	AUGUST 2017	
approved	MICHAEL MACDONALD	approuvé
date	AUGUST 2017	
Tender		Soumission
PCA Project Manager	Administrateur de projets APC	
project number	1845	no. du projet
drawing no.	C09	no. du dessin



GENERAL NOTES:  
1. FOR GENERAL NOTES SEE DRAWING C1.

PROVINCE OF NEWFOUNDLAND  
PERMIT HOLDER  
CLASS "A"  
This Permit Allows  
Harbourside Transportation Consultants  
Signature: [Signature] Date: NOV. 21/18  
To practice Professional Engineering  
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Permit No. as issued by PEGNL NO763  
which is valid for the year 2018.



0	ISSUED FOR TENDER	NOV. 21 2018
revisions		date

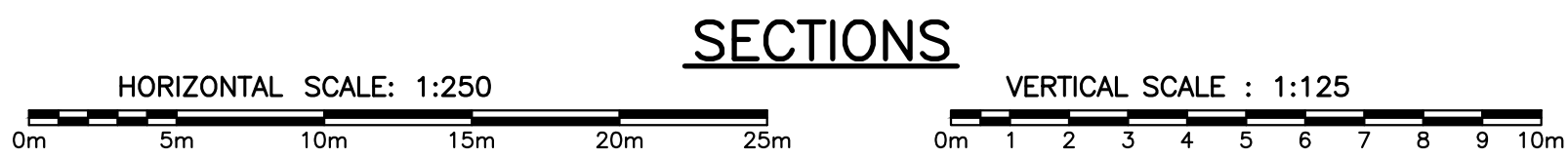
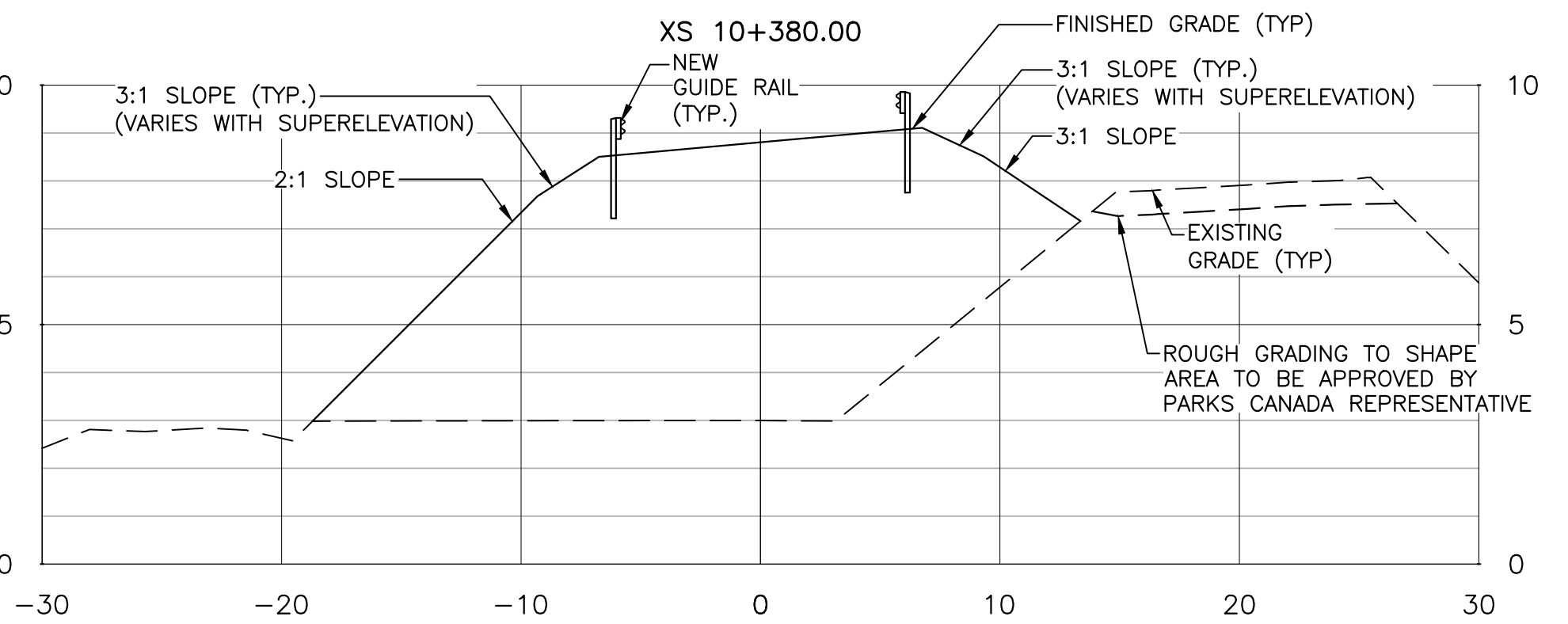
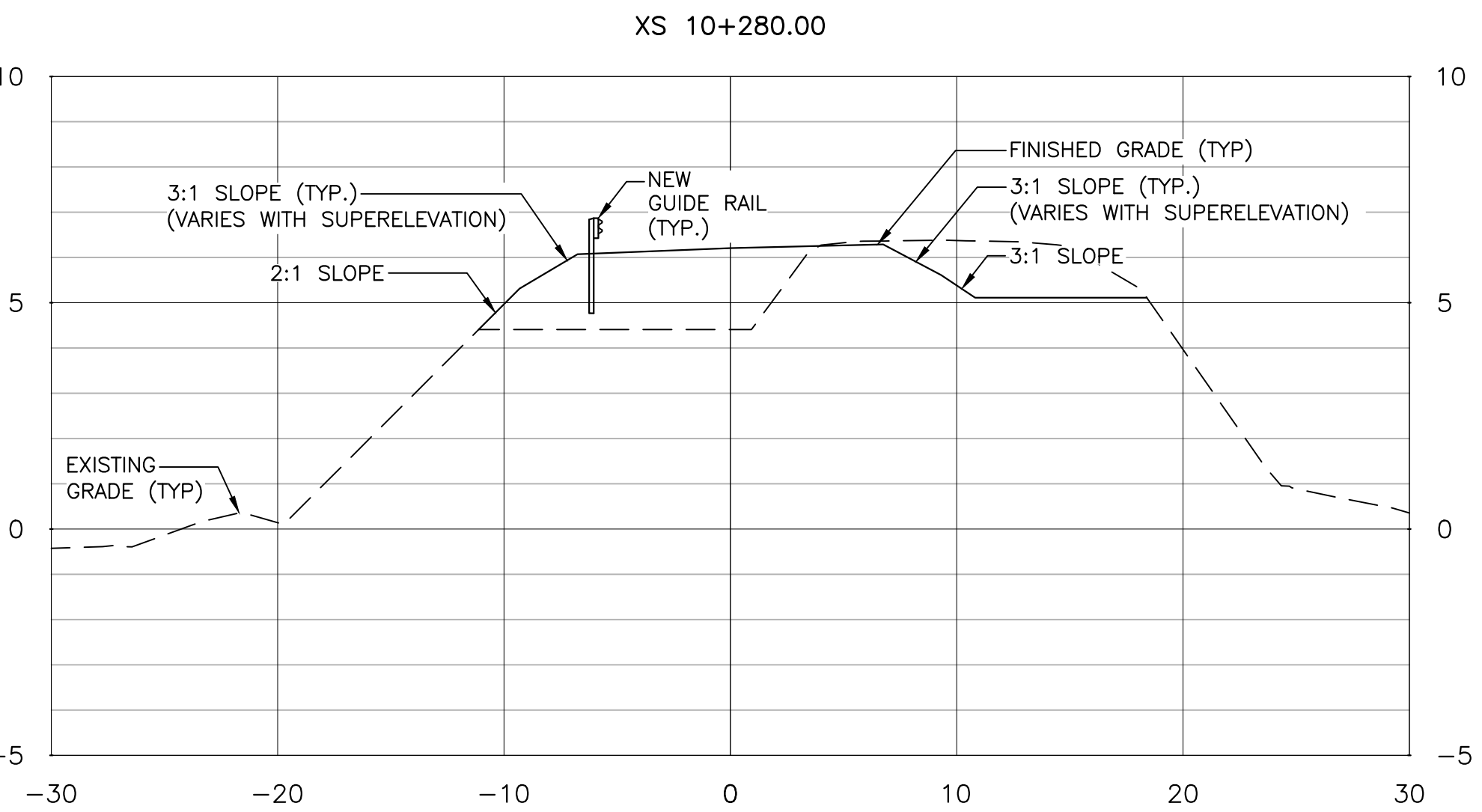
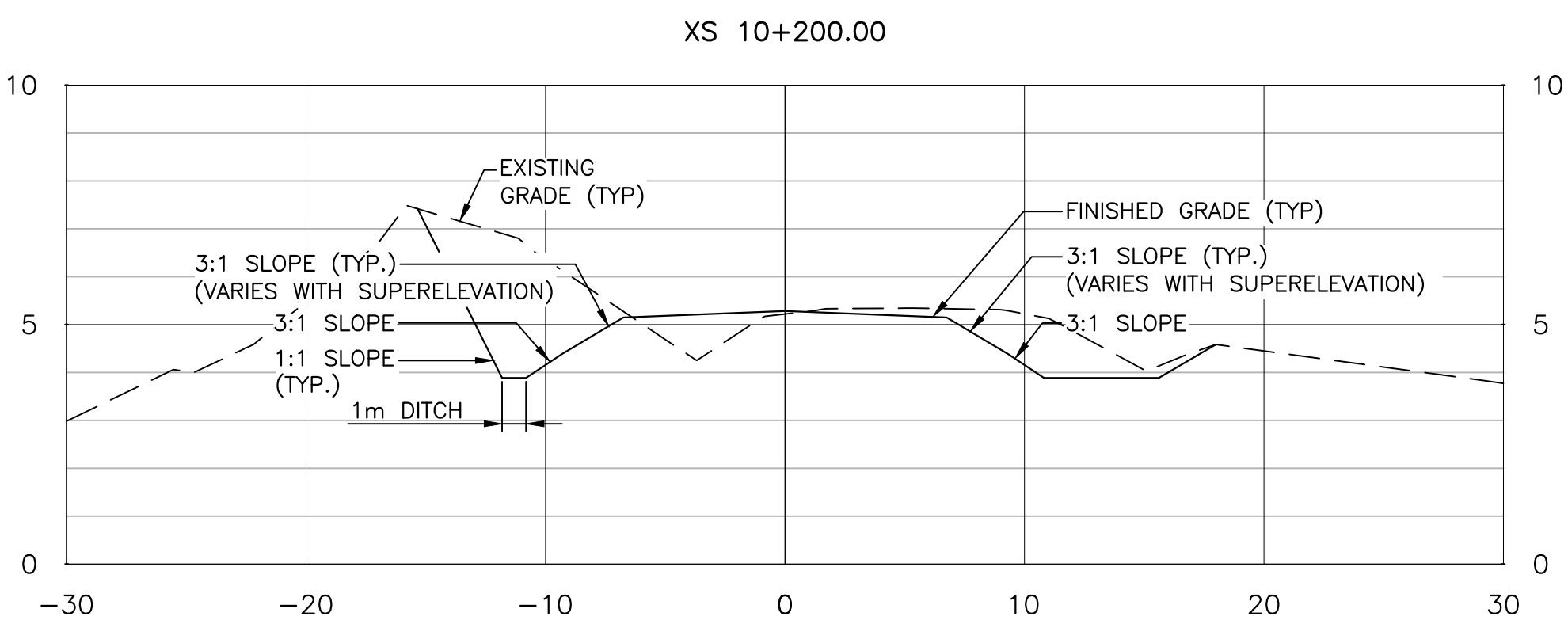
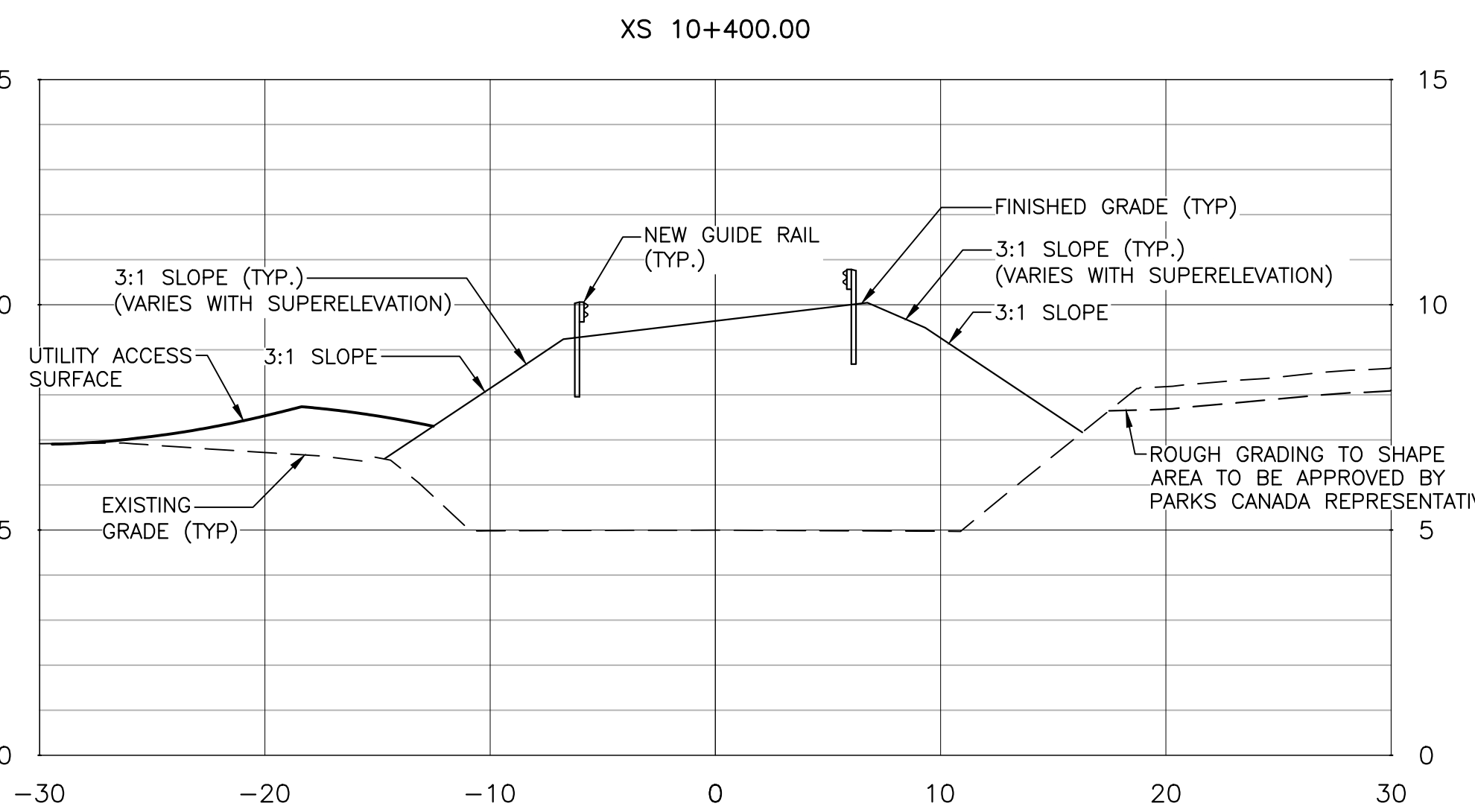
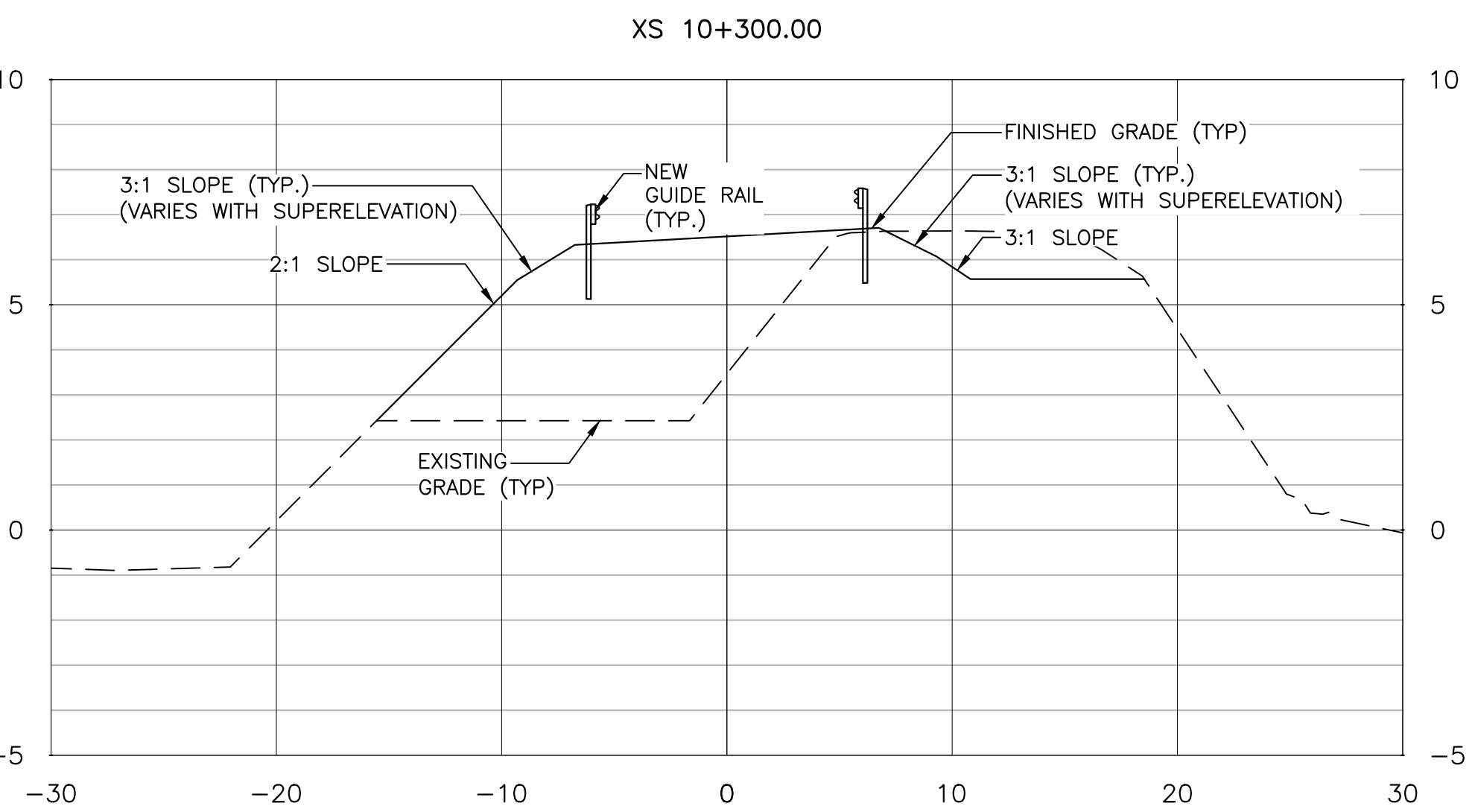
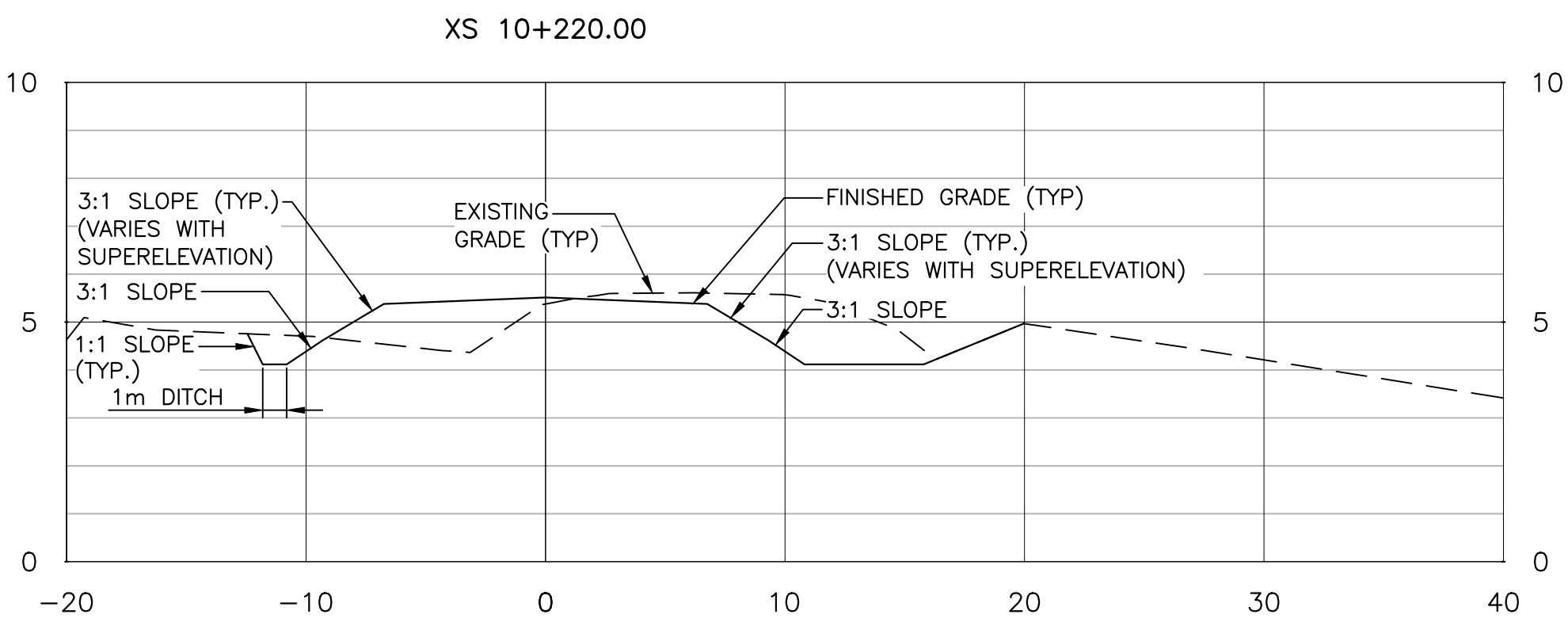
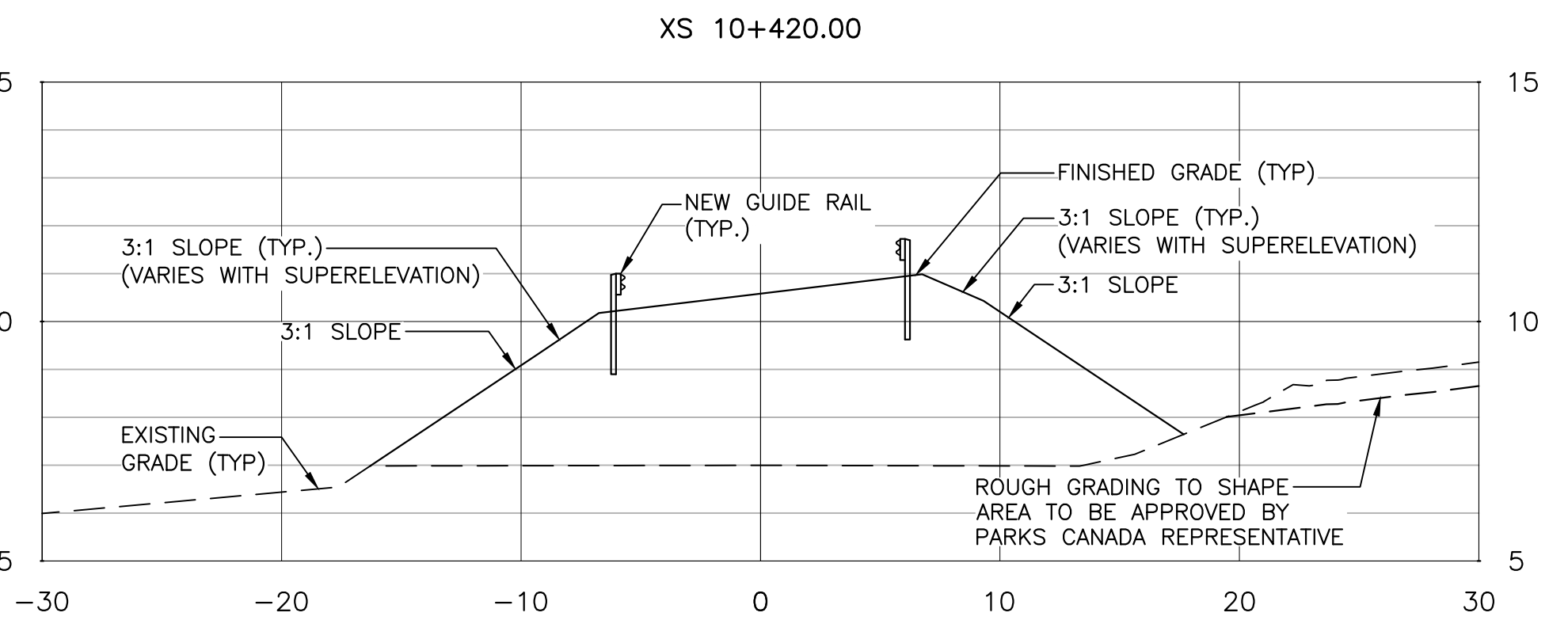
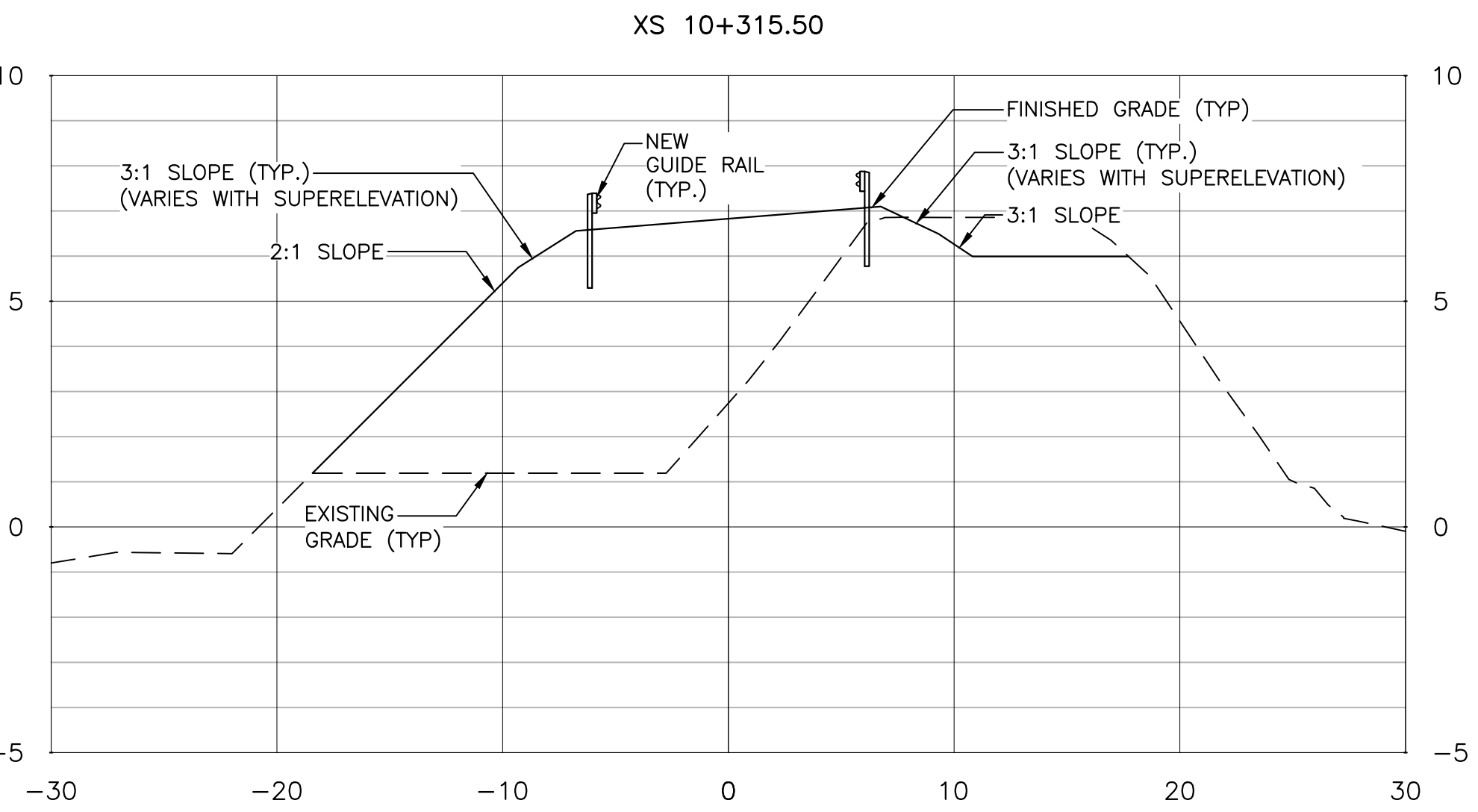
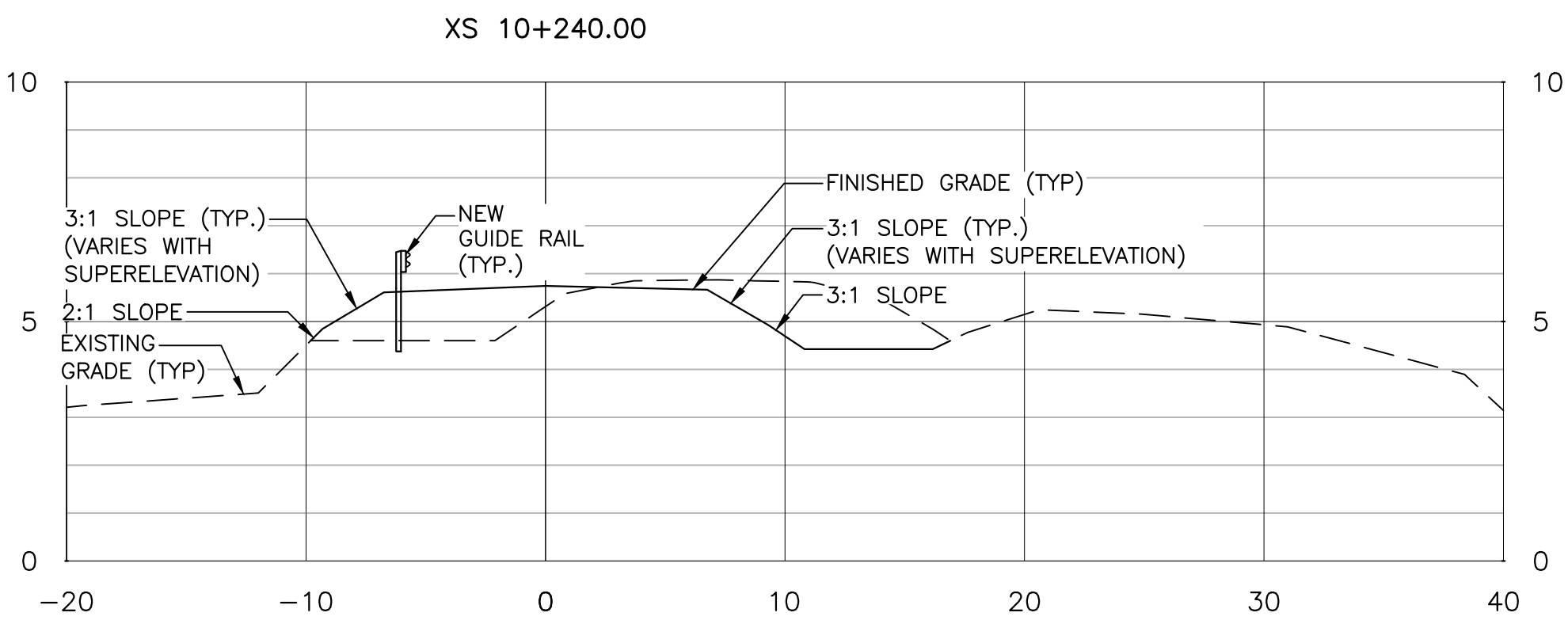
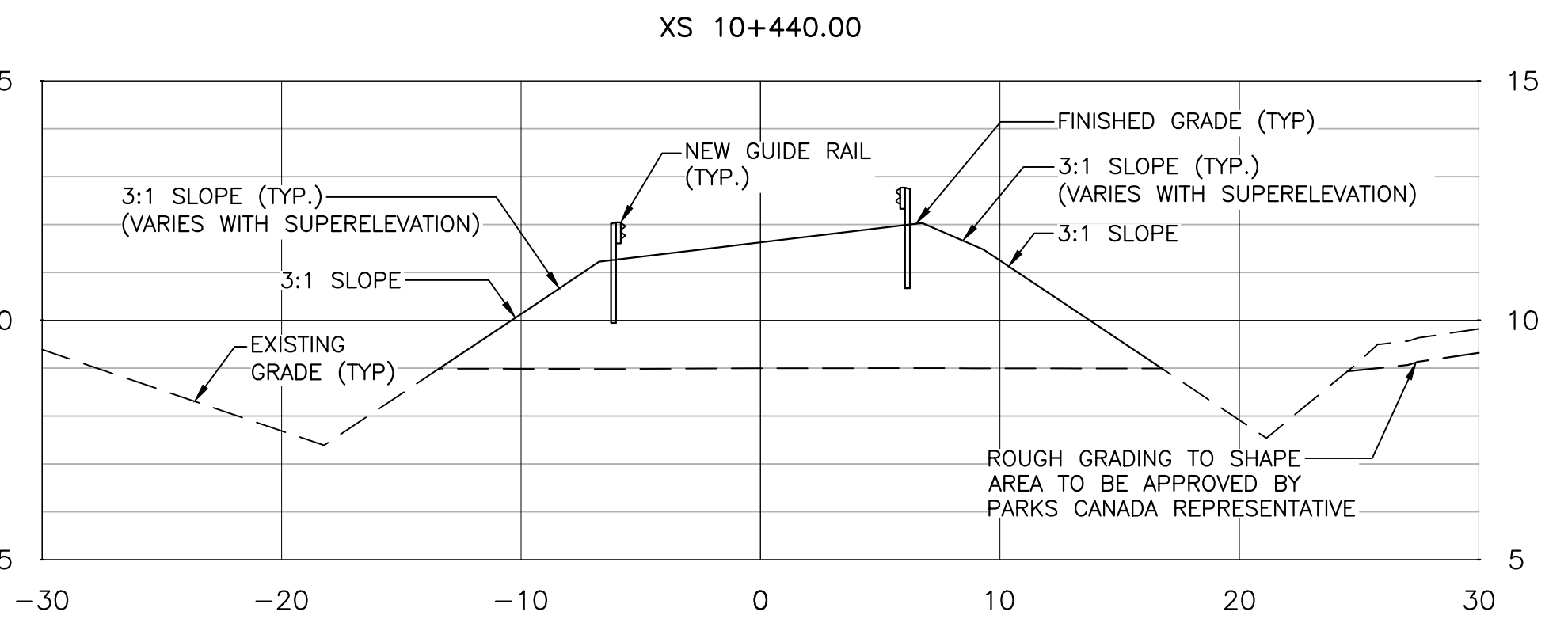
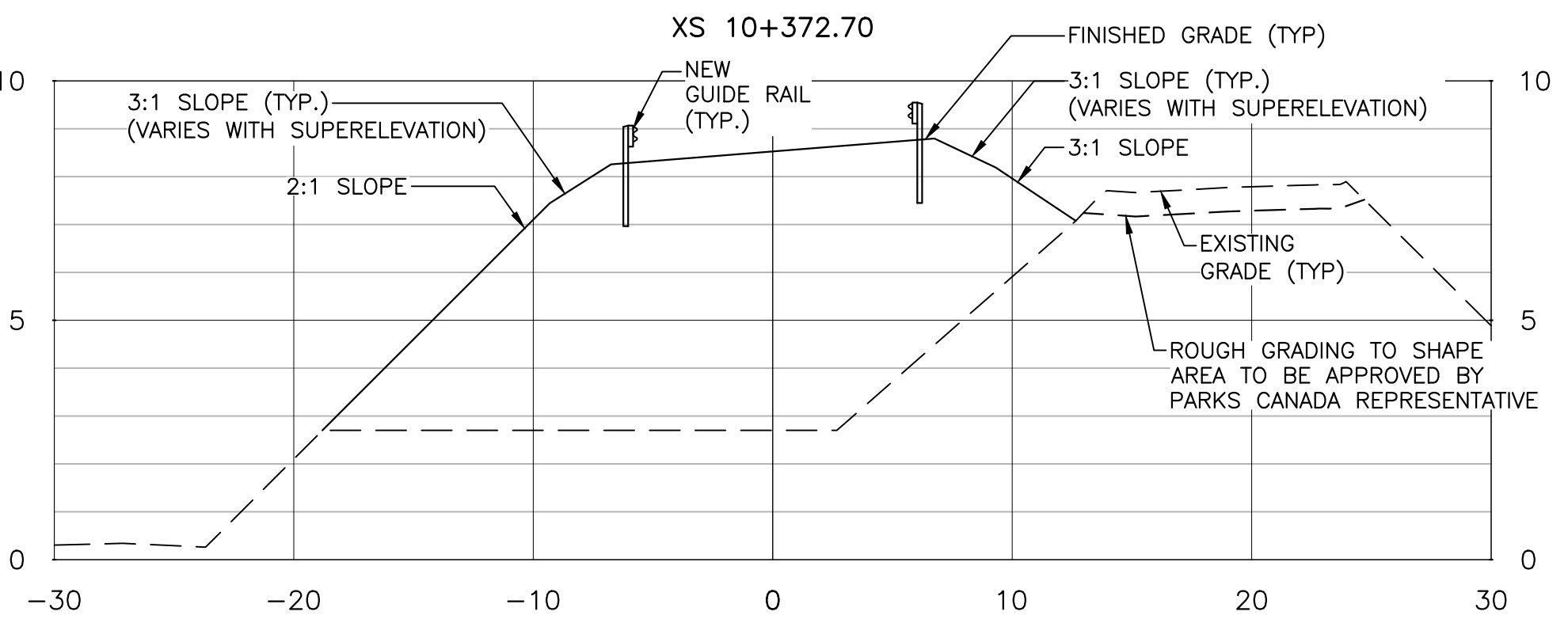
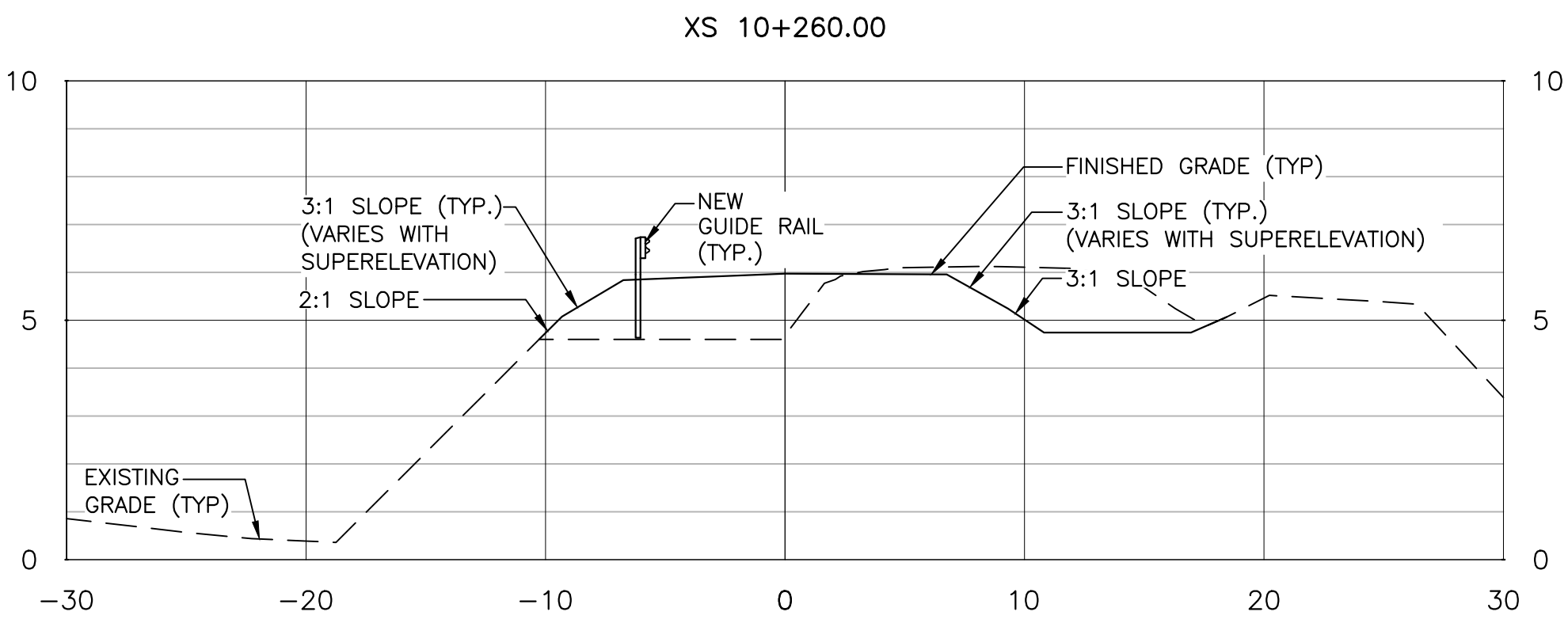
project ROCKY BARACHOIS  
BRIDGE REPLACEMENT

GROS MORNE  
NATIONAL PARK

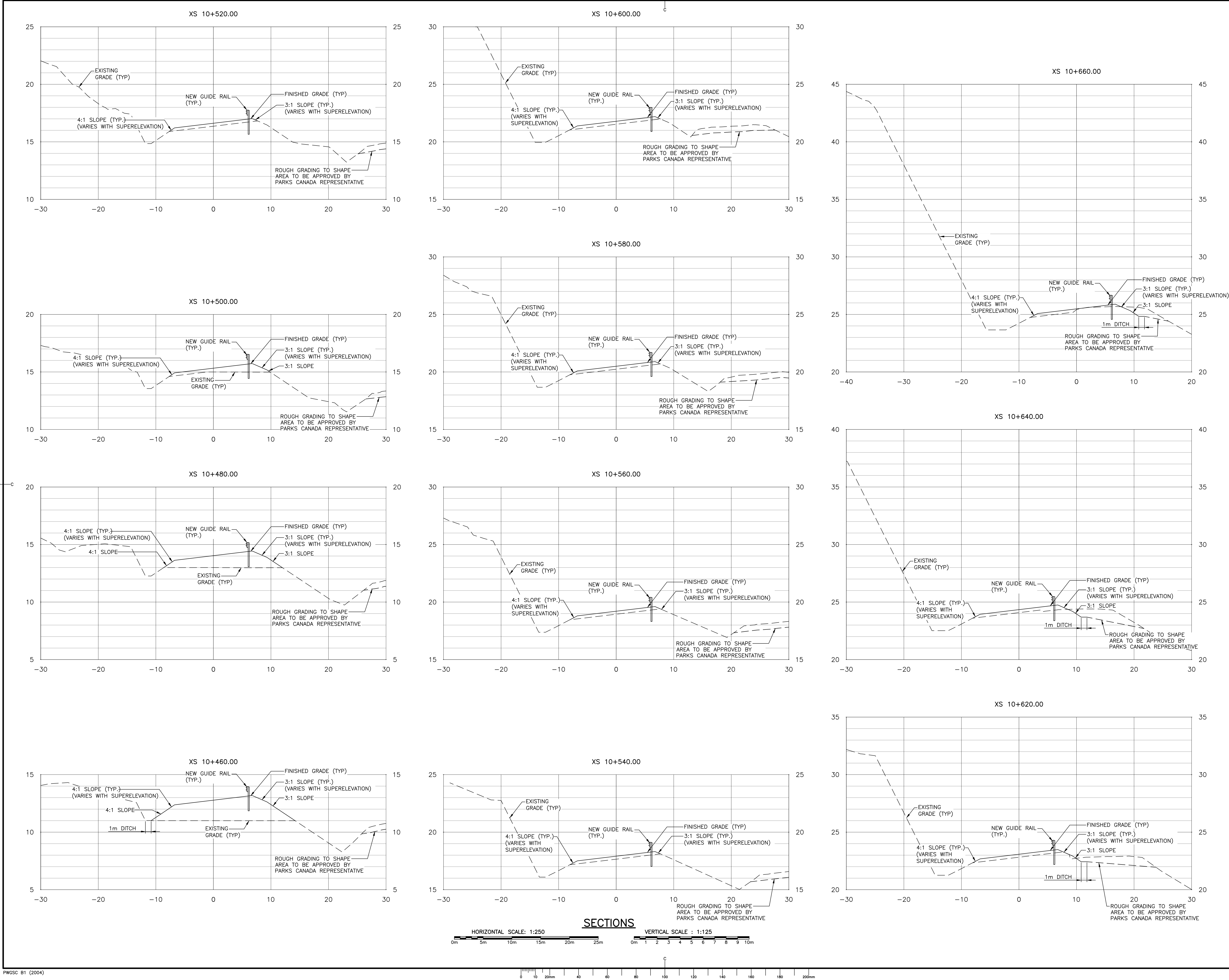
drawing design

CROSS SECTIONS  
(SHEET 2 OF 4)

designed	TIM JORDAN	conçu
date	AUGUST 2017	
drawn	CORY BAKER	dessiné
date	AUGUST 2017	
approved	MICHAEL MACDONALD	approuvé
date	AUGUST 2017	
Tender	[Signature]	Soumission
PCA Project Manager	Administrateur de projets APC	
project number	1845	no. du projet
drawing no.	C10	no. du dessin







Parcs Canada

HARBORSIDE  
Engineering Consultants

HARBORSIDE  
Transportation Consultants

**GENERAL NOTES:**

1. FOR GENERAL NOTES SEE DRAWING C1.

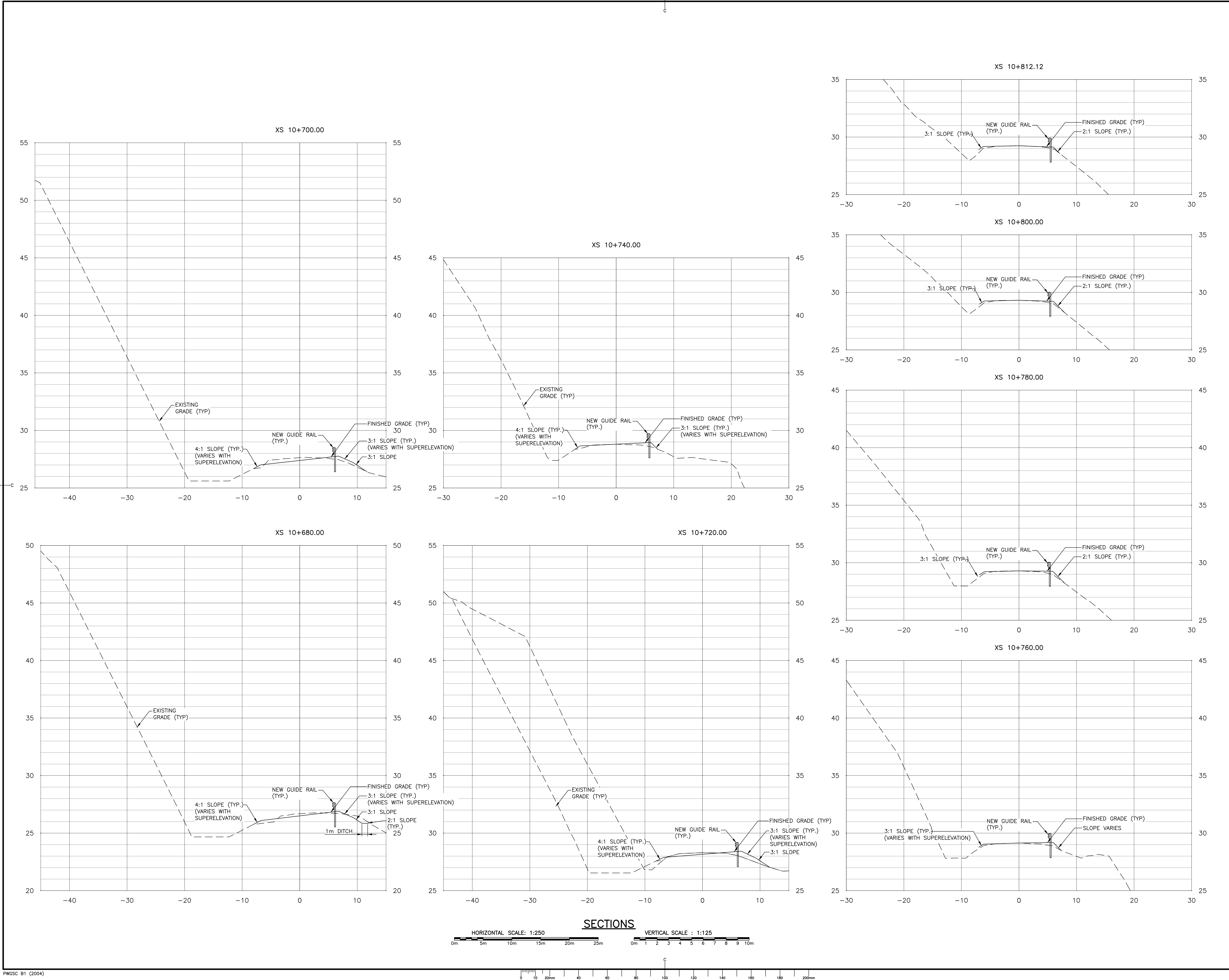
PROVINCE OF NEWFOUNDLAND  
**PERMIT HOLDER**  
CLASS "A"

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Signature: MICHAEL S. MACDONALD  
Date: NOV. 21/18

0	ISSUED FOR TENDER	NOV. 21 2018
revisions		date
project	ROCKY BARACHOIS BRIDGE REPLACEMENT	project
drawing	GROS MORNE NATIONAL PARK	design
<b>CROSS SECTIONS (SHEET 3 OF 4)</b>		
designed	TIM JORDAN	conçu
date	AUGUST 2017	
drawn	CORY BAKER	dessiné
date	AUGUST 2017	
approved	MICHAEL MACDONALD	approuvé
date	AUGUST 2017	
Tender		Soumission
PCA Project Manager	Administrateur de projets APC	
project number	1845	no. du projet
drawing no.	C11	no. du dessin





Parcs  
Canada

Parks  
Canada

HARBORSIDE  
Engineering Consultants

HARBORSIDE  
Transportation Consultants

GENERAL NOTES:

1. FOR GENERAL NOTES SEE DRAWING C1.

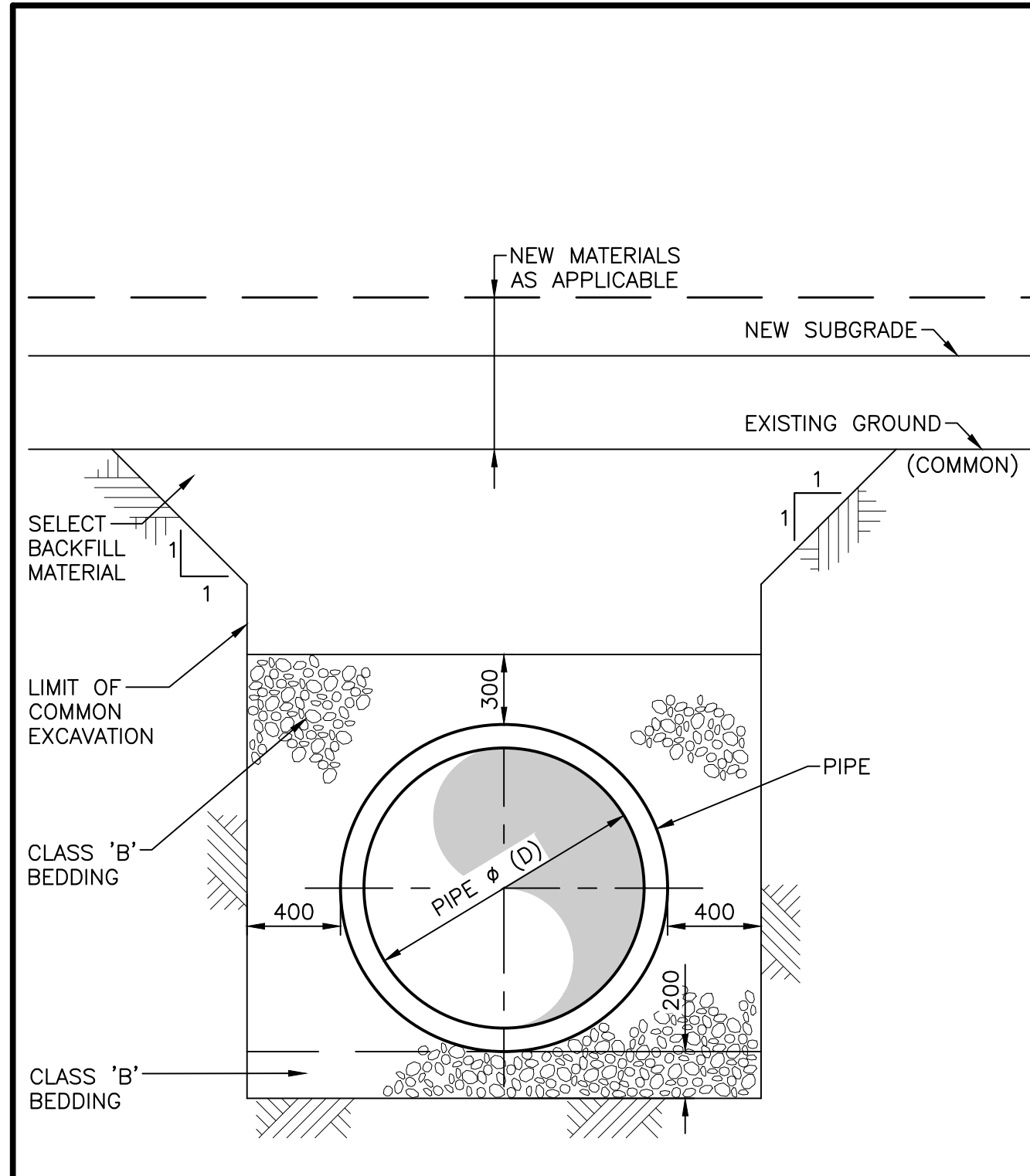
PROVINCE OF NEWFOUNDLAND  
PERMIT HOLDER  
CLASS "A"

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Permit No. as issued by PEGLI 00763  
which is valid for the year 2018.

MICHAEL S. MACDONALD  
ENGINEER  
Nov. 21/18  
DATE

0	ISSUED FOR TENDER	NOV. 21 2018
revisions		date
project	ROCKY BARACHOIS BRIDGE REPLACEMENT	
drawing	GROS MORNE NATIONAL PARK	
drawing no.	C12	
designed	TIM JORDAN	conçu
date	AUGUST 2017	
drawn	CORY BAKER	dessiné
date	AUGUST 2017	
approved	MICHAEL MACDONALD	approuvé
date	AUGUST 2017	
Tender		Soumission
PCA Project Manager	Administrateur de projets APC	
project number	1845	no. du projet
drawing no.	C12	no. du dessin



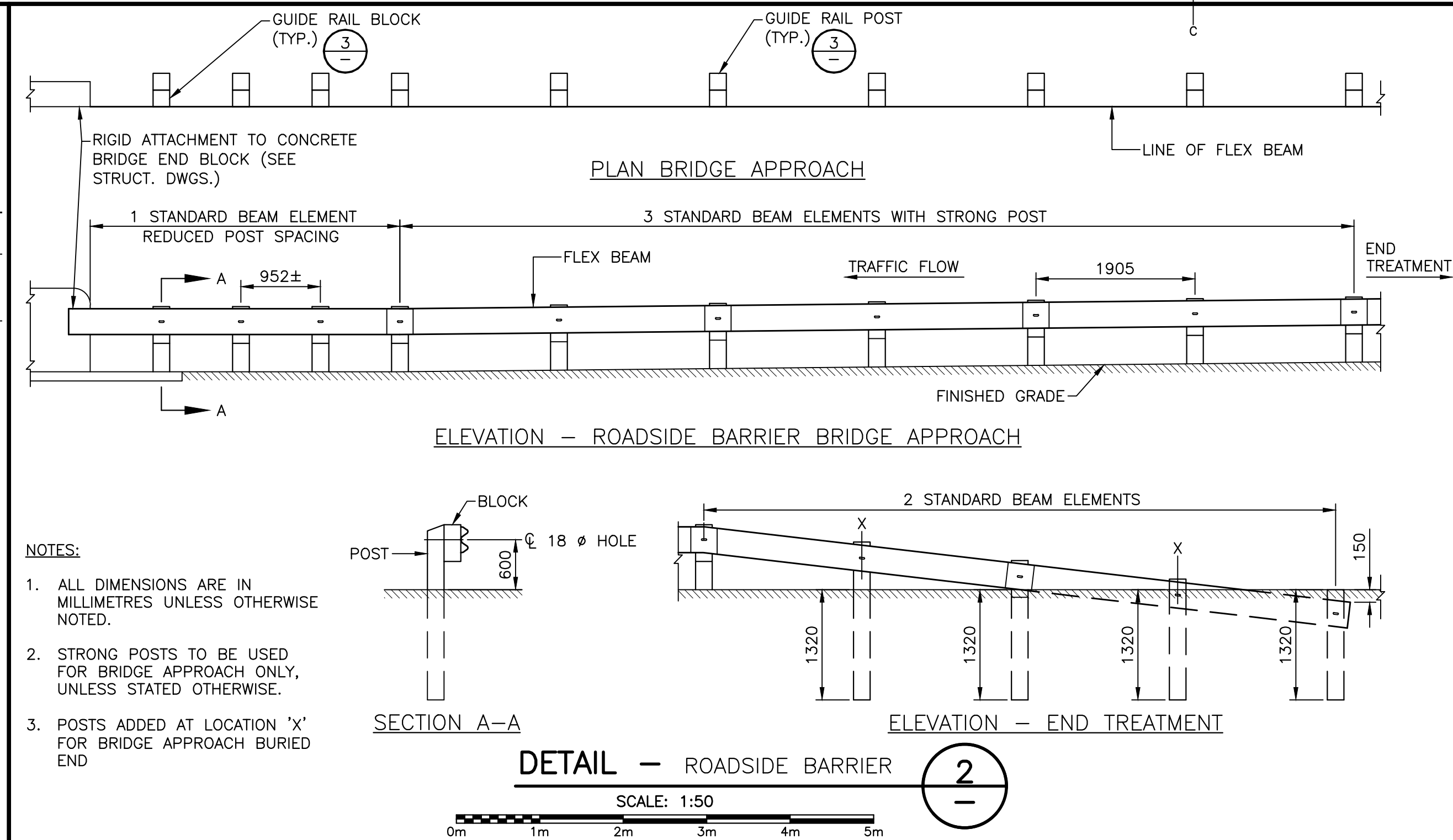


- NOTES:
1. THE CROSS SECTION REPRESENTS MAXIMUM PAY LIMITS FOR EXCAVATION.
  2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

TYPICAL DETAIL — EXCAVATION LIMITS FOR CULVERTS



1  
C4-C5

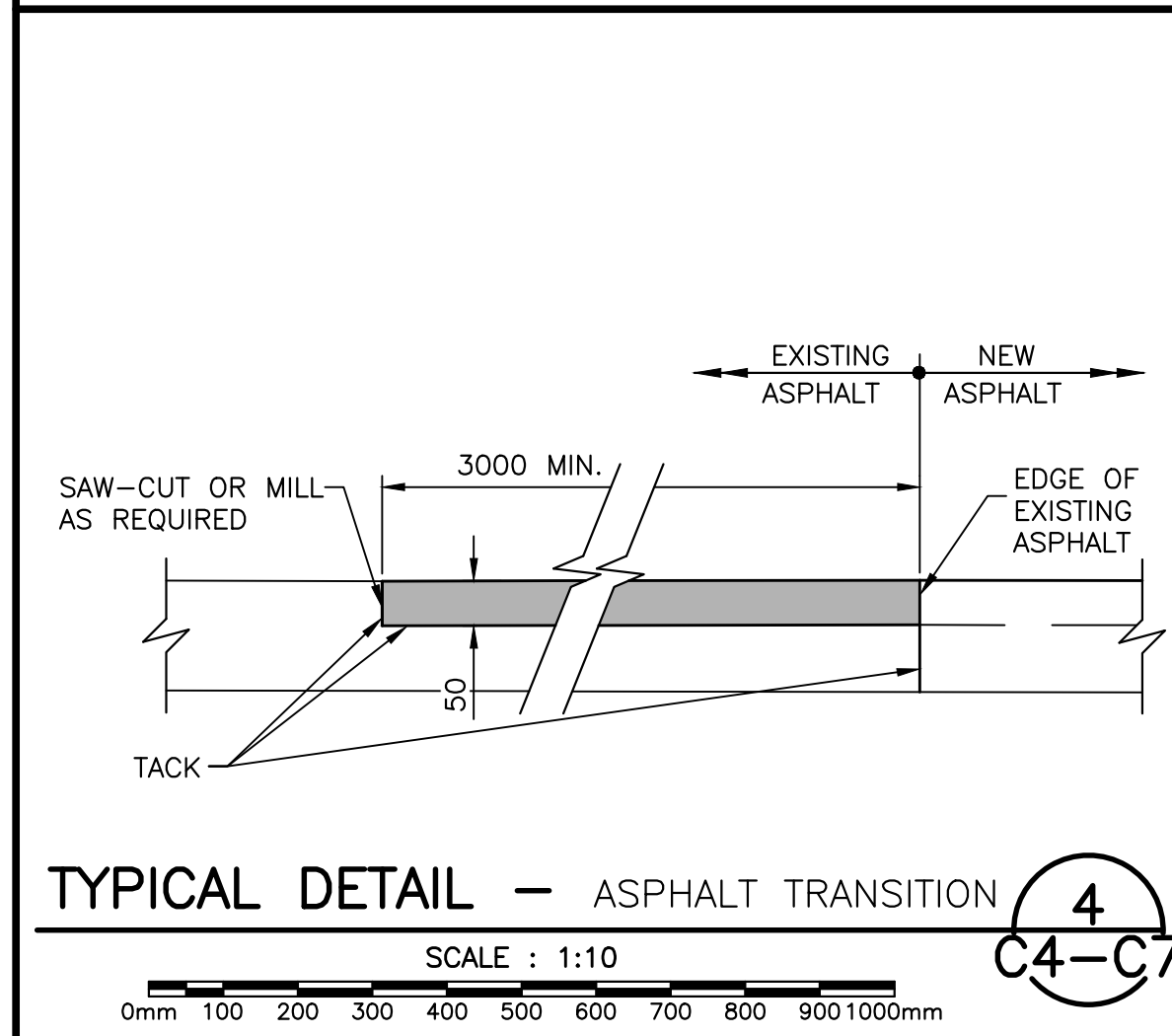


- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
  2. STRONG POSTS TO BE USED FOR BRIDGE APPROACH ONLY, UNLESS STATED OTHERWISE.
  3. POSTS ADDED AT LOCATION 'X' FOR BRIDGE APPROACH BURIED END

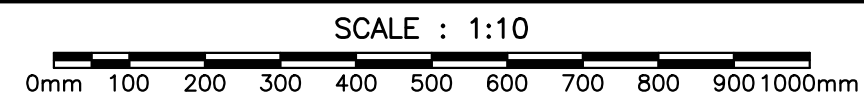
DETAIL — ROADSIDE BARRIER



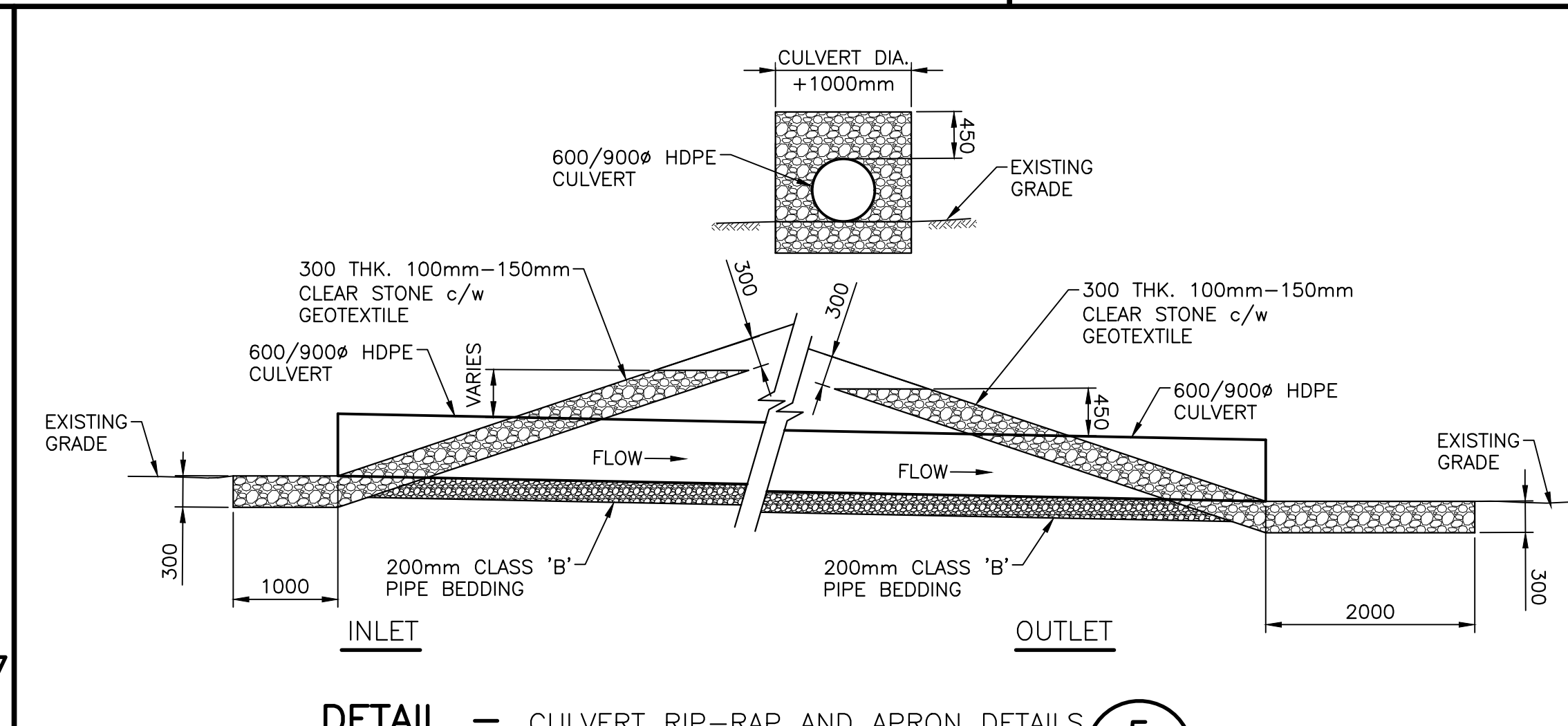
2  
—



TYPICAL DETAIL — ASPHALT TRANSITION



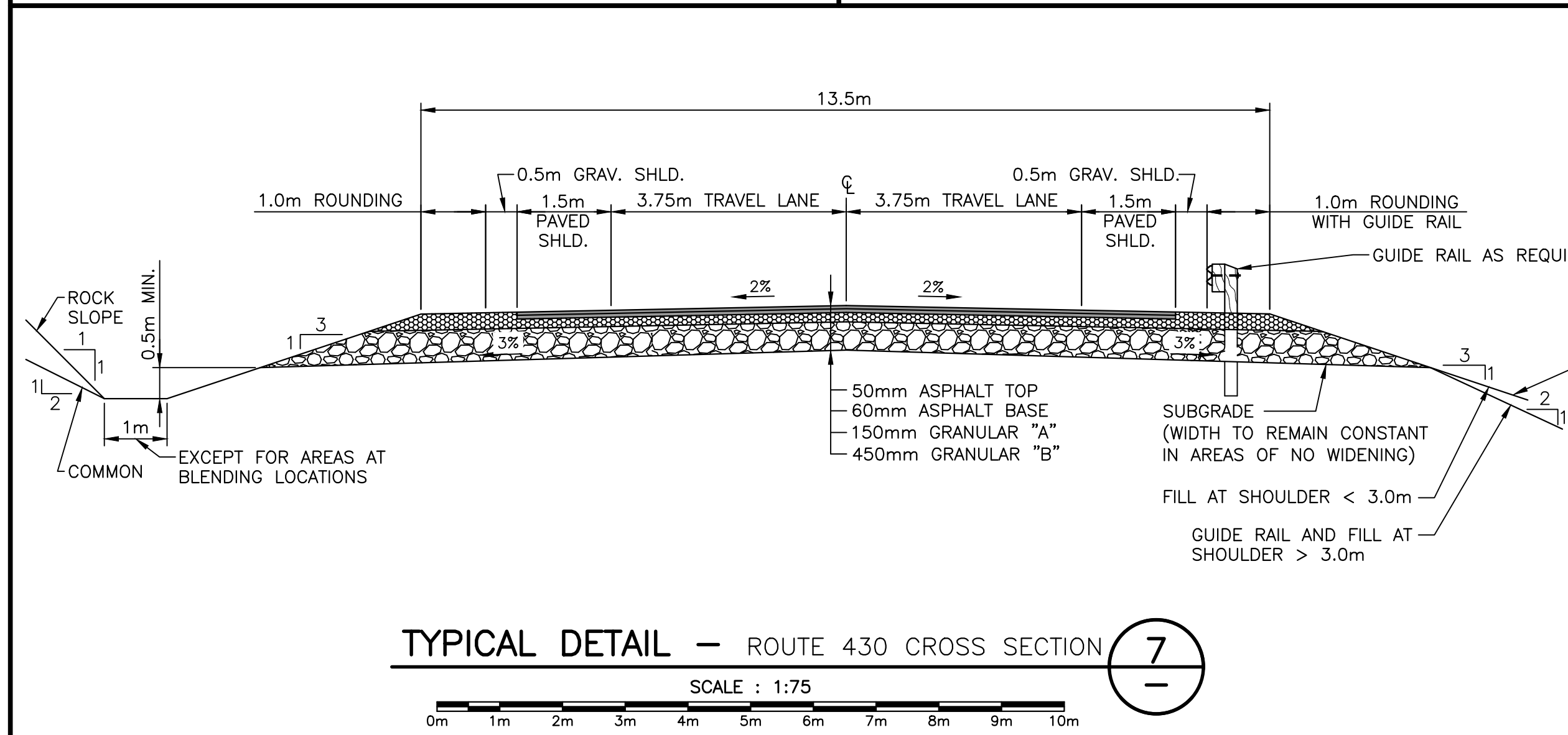
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C4-C7



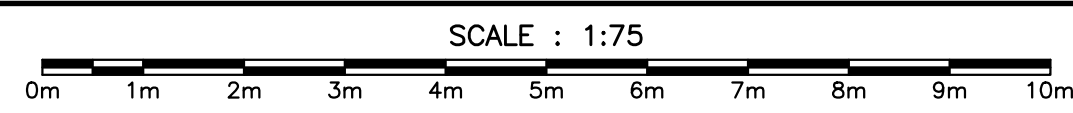
DETAIL — CULVERT RIP-RAP AND APRON DETAILS



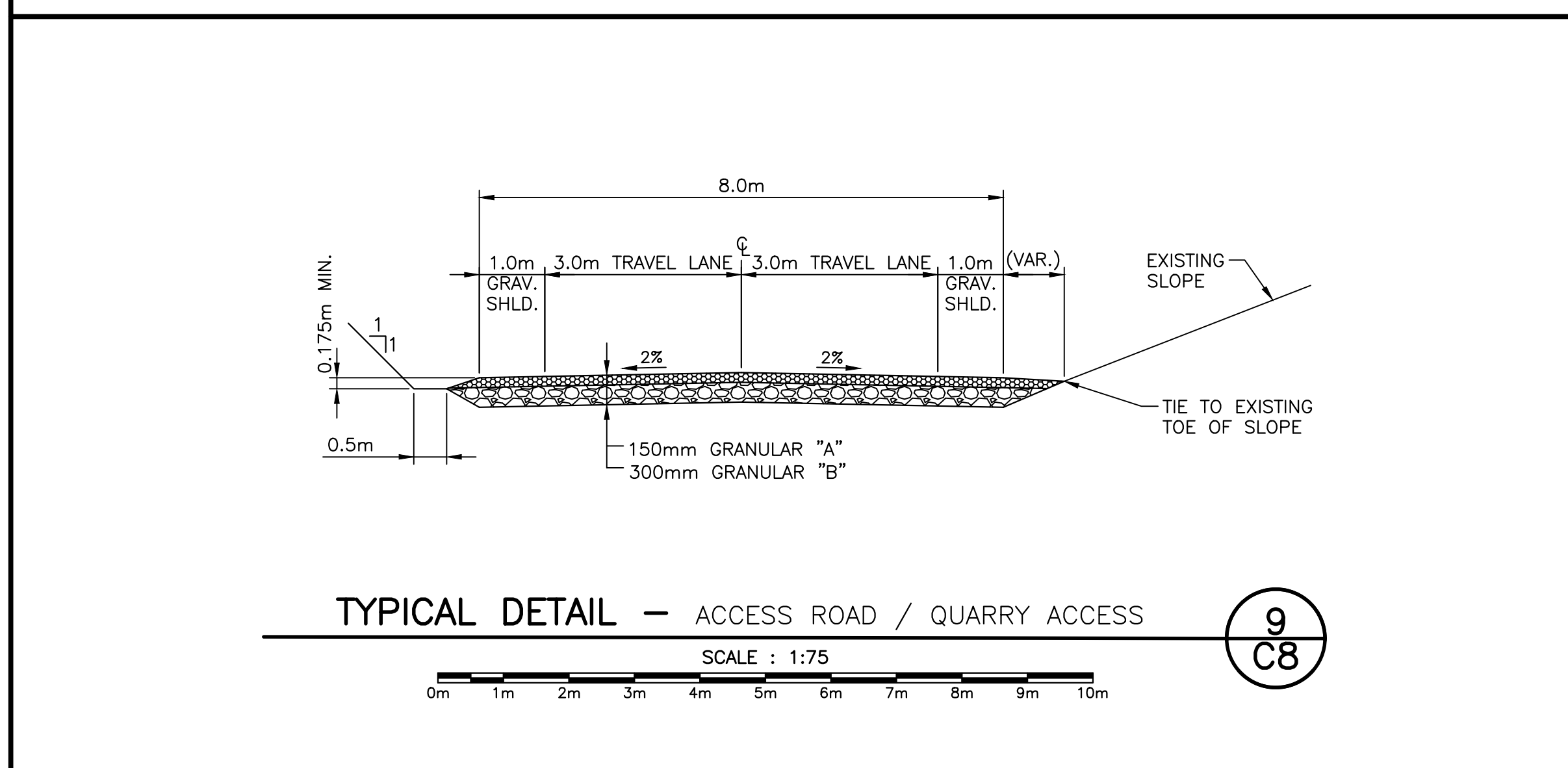
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C04-C05



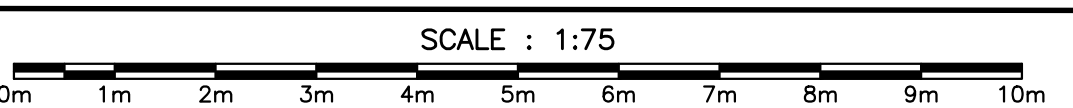
TYPICAL DETAIL — ROUTE 430 CROSS SECTION



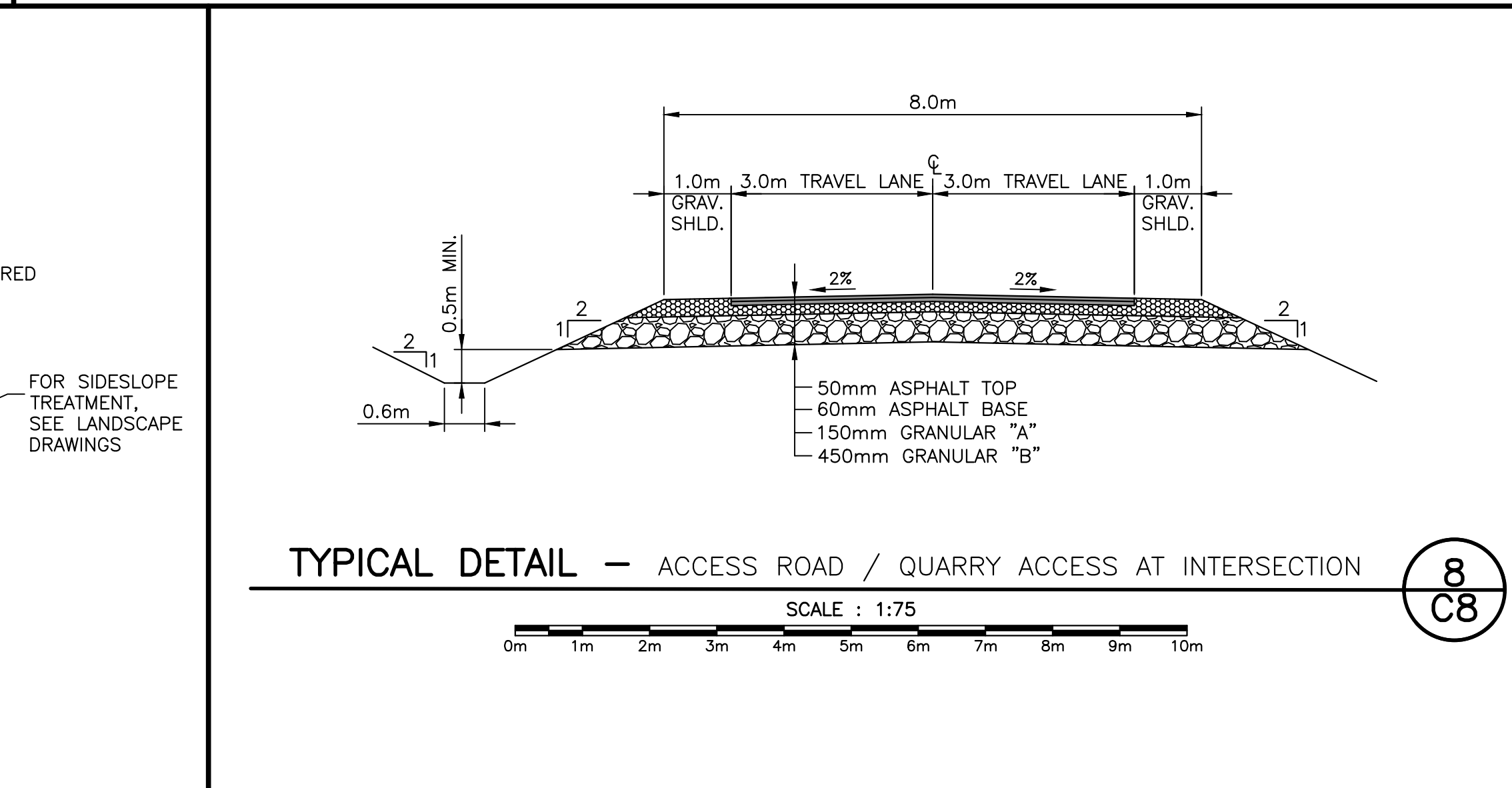
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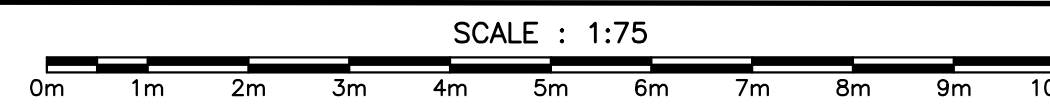
TYPICAL DETAIL — ACCESS ROAD / QUARRY ACCESS



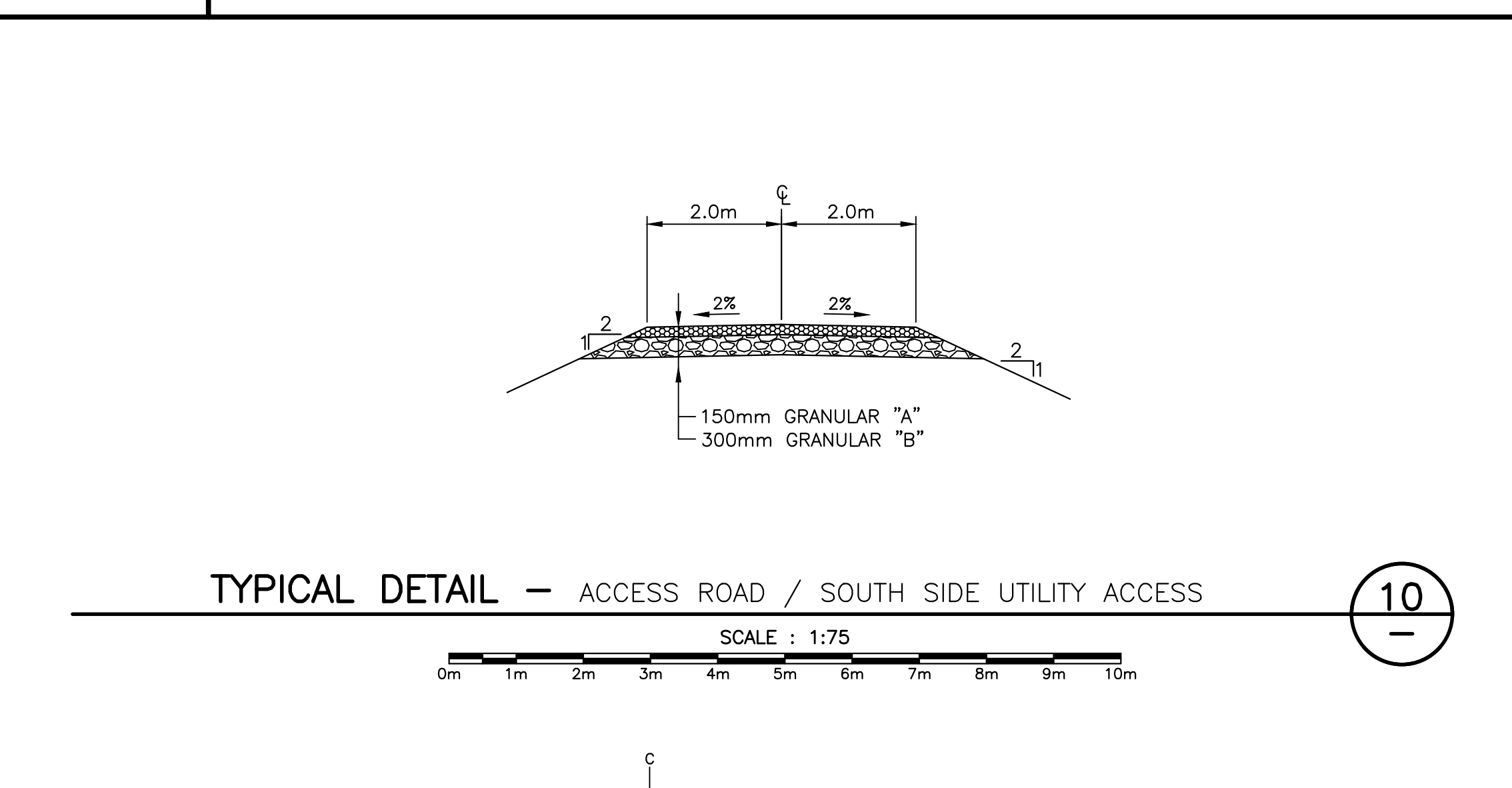
9  
C8



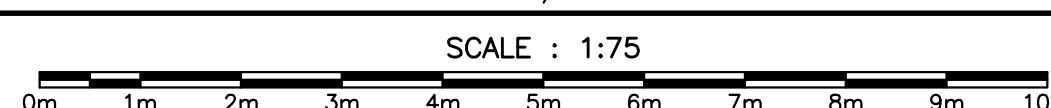
TYPICAL DETAIL — ACCESS ROAD / QUARRY ACCESS AT INTERSECTION



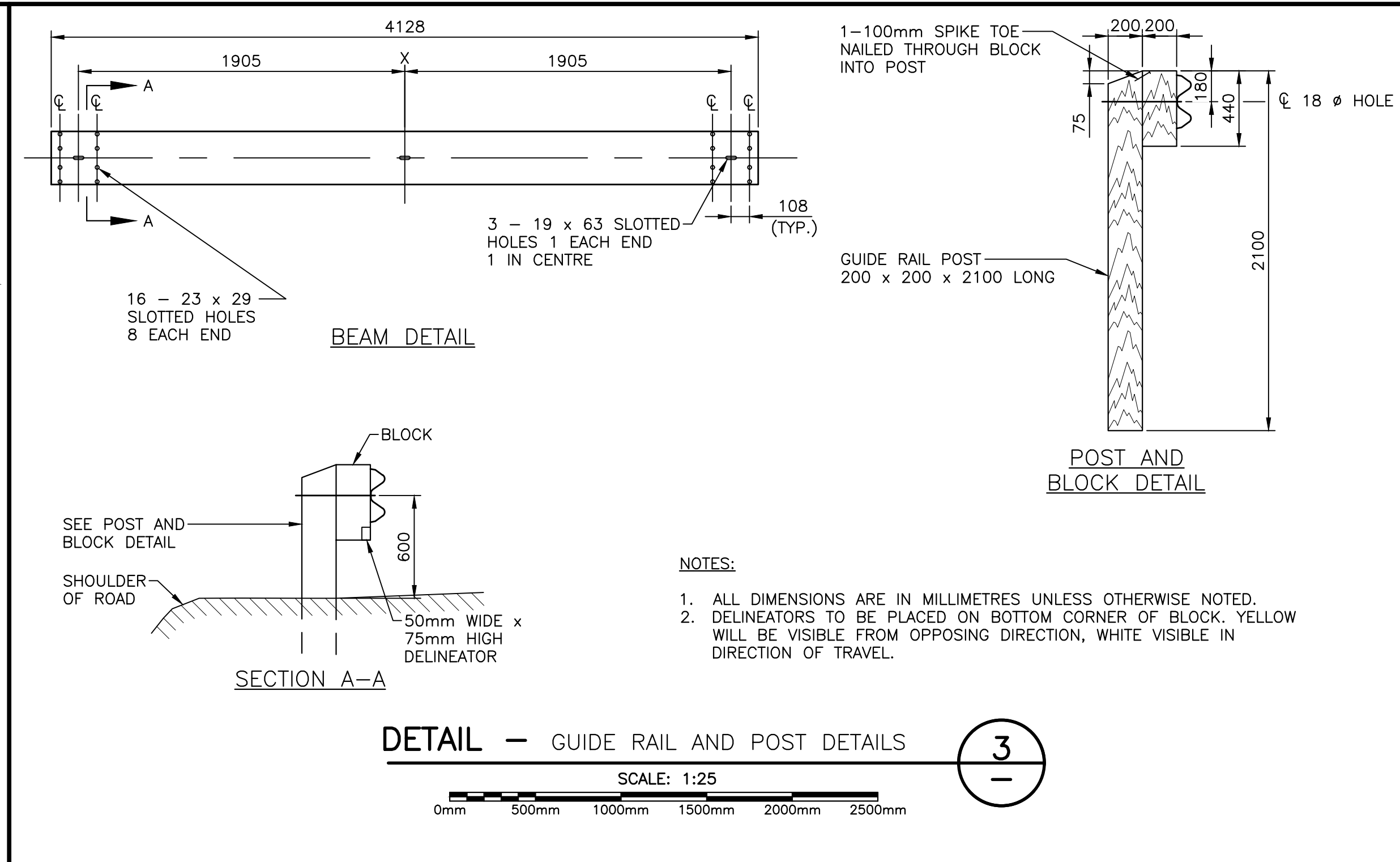
8  
C8



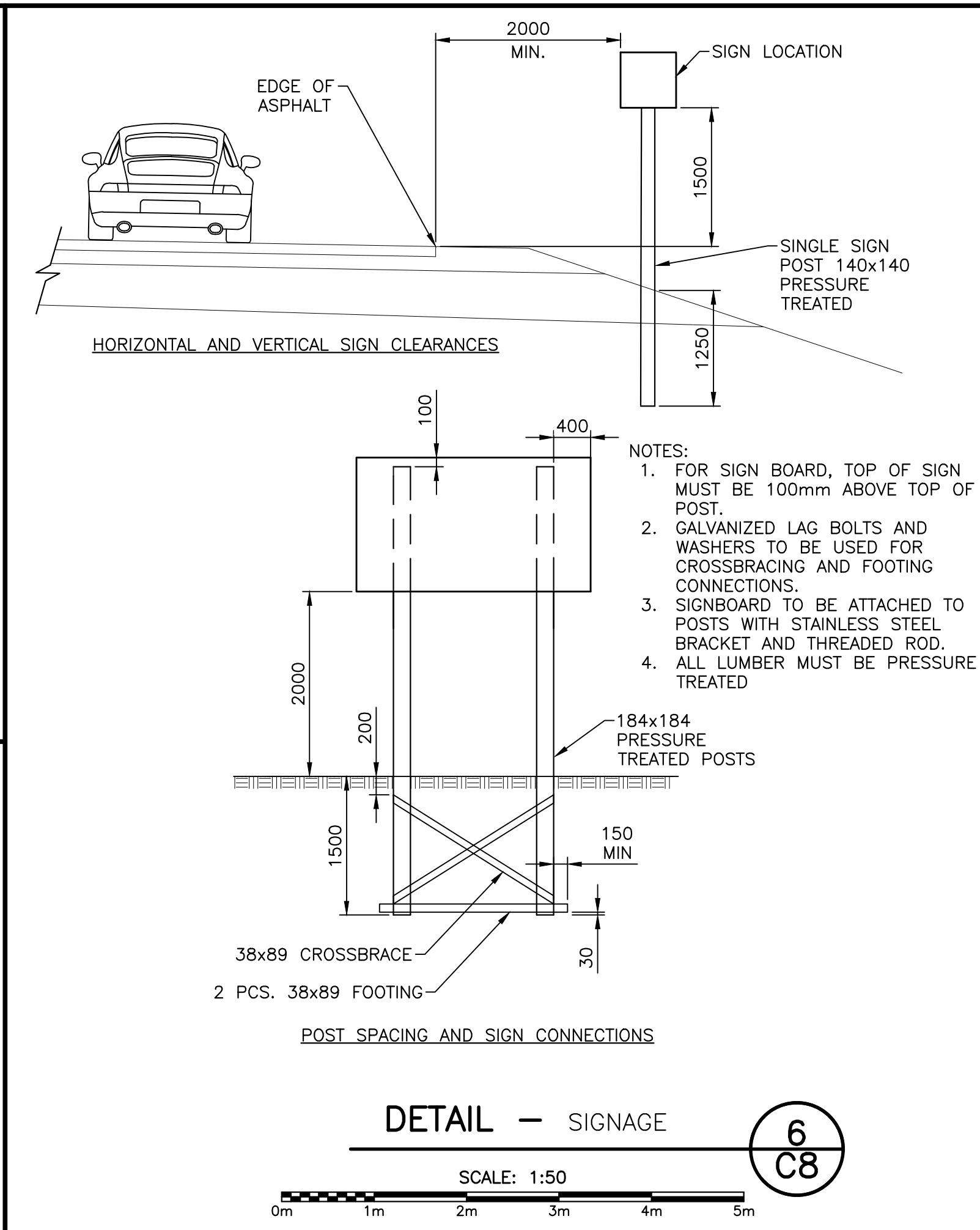
TYPICAL DETAIL — ACCESS ROAD / SOUTH SIDE UTILITY ACCESS



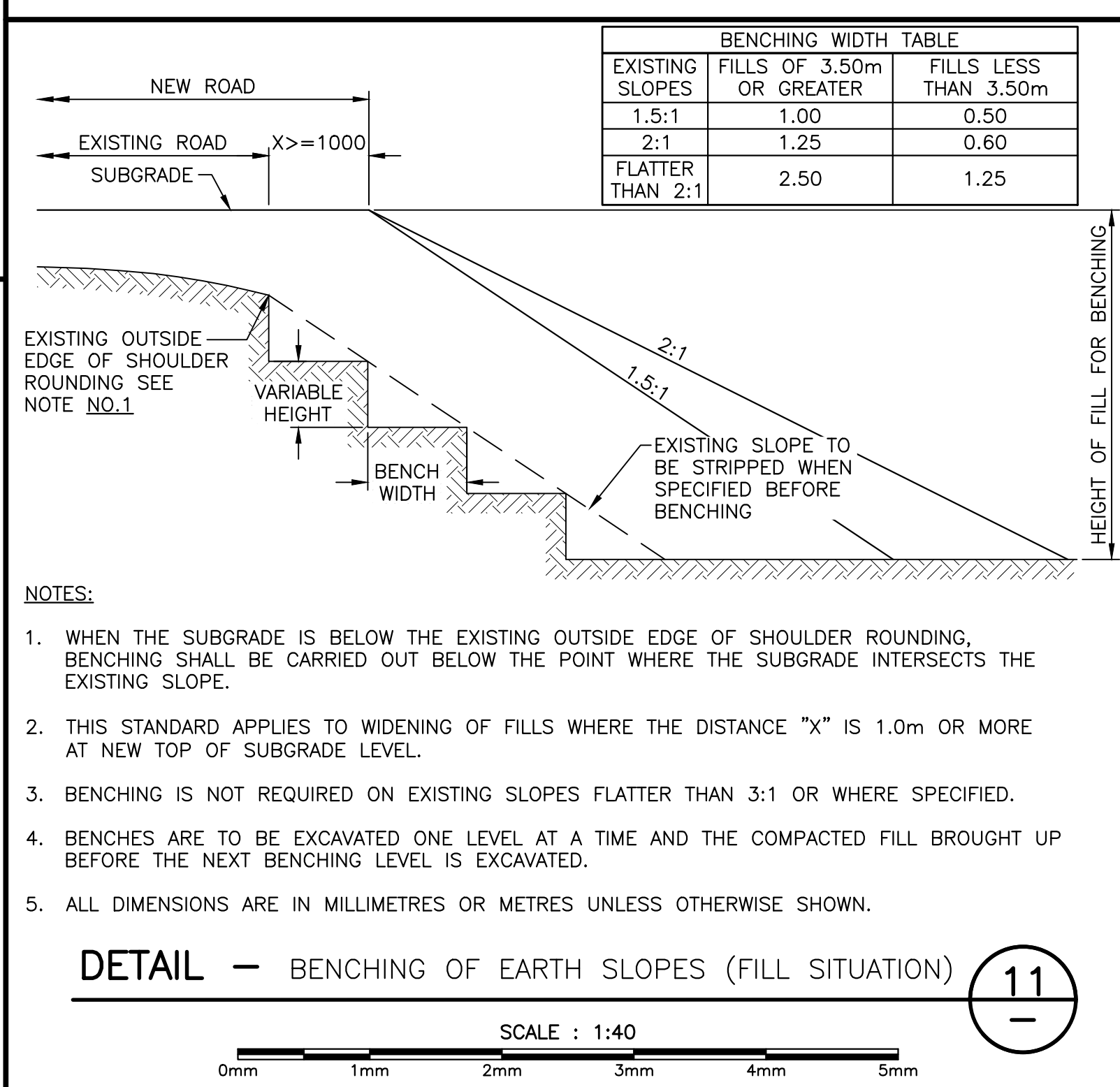
10  
—



- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
  2. DELINEATORS TO BE PLACED ON BOTTOM CORNER OF BLOCK. YELLOW WILL BE VISIBLE FROM OPPOSING DIRECTION, WHITE VISIBLE IN DIRECTION OF TRAVEL.



- NOTES:
1. FOR SIGN BOARD, TOP OF SIGN MUST BE 100mm ABOVE TOP OF POST.
  2. GALVANIZED LAG BOLTS AND WASHERS TO BE USED FOR CROSSBRACING AND FOOTING CONNECTIONS.
  3. SIGNBOARD TO BE ATTACHED TO POSTS WITH STAINLESS STEEL BRACKET AND THREADED ROD.
  4. ALL LUMBER MUST BE PRESSURE TREATED



- NOTES:
1. WHEN THE SUBGRADE IS BELOW THE EXISTING OUTSIDE EDGE OF SHOULDER ROUNDING, BENCHING SHALL BE CARRIED OUT BELOW THE POINT WHERE THE SUBGRADE INTERSECTS THE EXISTING SLOPE.
  2. THIS STANDARD APPLIES TO WIDENING OF FILLS WHERE THE DISTANCE "X" IS 1.0m OR MORE AT NEW TOP OF SUBGRADE LEVEL.
  3. BENCHING IS NOT REQUIRED ON EXISTING SLOPES FLATTER THAN 3:1 OR WHERE SPECIFIED.
  4. BENCHES ARE TO BE EXCAVATED ONE LEVEL AT A TIME AND THE COMPACTED FILL BROUGHT UP BEFORE THE NEXT BENCHING LEVEL IS EXCAVATED.
  5. ALL DIMENSIONS ARE IN MILLIMETRES OR METRES UNLESS OTHERWISE SHOWN.

DETAIL — BENCHING OF EARTH SLOPES (FILL SITUATION)



11  
—





- GENERAL NOTES:
1. ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
  2. SURVEY REFERENCED HORIZONTALLY TO UTM ZONE 21 NORTH NAD83 (CSRS) AND VERTICALLY TO CGVD28 (HTV2.0 GEOD MODEL).
  3. CONTROL IS DERIVED FROM MULTIPLE STATIC GPS OBSERVATIONS ON NAIL 1000 HAVING CO-ORDINATES OF:  
N=5481239.813m  
E=446748.809m  
EL=9.53m
  4. COORDINATES ARE GRID DERIVED FROM NAD83 ELLIPSOID USING THE MAPPING PROJECTION OF UNIVERSAL TRANSVERSE MERCATOR ZONE 21 HAVING A COMBINED GRID SCALE FACTOR OF 1/0.99963351.
  5. TOPOGRAPHIC SURVEY COMPLETED BY DESIGN POINT ENGINEERING AND SURVEYING ON SEPT 13-17, 2016.
  6. CONTOUR INTERVAL IS 1.0 METRE.
  7. FOR GEOTECHNICAL INFORMATION SEE REPORT BY HGC DATED AUG. 31, 2017.



0 ISSUED FOR TENDER NOV. 21 2018

revisions date

project ROCKY BARACHOIS BRIDGE REPLACEMENT

GROS MORNE NATIONAL PARK

drawing design

NEW CLEARING PLAN

designed TIM JORDAN conçu

date OCTOBER 2017

drawn CORY BAKER dessiné

date OCTOBER 2017

approved MICHAEL MACDONALD approuvé

date OCTOBER 2017

Tender Soumission

PCA Project Manager Administrateur de projets APC

project number no. du projet

1845

drawing no. no. du dessin

C14

