

Parcs Canada Parks Canada

HARBORSIDE Engineering Consultants

HARBORSIDE Transportation Consultants

GENERAL NOTES:

- ALL ELEVATIONS ARE IN METERS UNLESS OTHERWISE NOTED.
- SURVEY REFERENCED HORIZONTALLY TO UTM ZONE 21 NORTH NAD83 (CSRS) AND VERTICALLY TO CGVD28 (HTV2.0 GEOD MODEL).
- CONTROL IS DERIVED FROM MULTIPLE STATIC GPS OBSERVATIONS ON NAIL 1000 HAVING CO-ORDINATES OF:
N=5481239.613m
E=446748.809m
EL=9.53m
- 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.
- TOPOGRAPHIC SURVEY COMPLETED BY DESIGN POINT ENGINEERING AND SURVEYING ON SEPT 13-17, 2016.
- CONTOUR INTERVAL IS 0.5 METER.
- FOR GEOTECHNICAL INFORMATION SEE REPORT BY HGC DATED AUG. 31, 2017.

PROVINCE OF NEWFOUNDLAND PERMIT HOLDER CLASS "A"

This Permit Allows Harbourside Transportation Consultants P.L. 05/18 To practice Professional Engineering in Newfoundland and Labrador. Permit No. as issued by PEGNL N0263 which is valid for the year 2018.

MICHAEL S. MACDONALD
SIGNATURE
JUL 05/18
DATE
NEWFOUNDLAND & LABRADOR

0 ISSUED FOR TENDER JUL 05 2018

revisions

project

RE-ALIGNMENT AND RE-CONSTRUCTION OF HIGHWAY 430 NEAR ROCKY BARACHOIS BROOK GROS MORNE NATIONAL PARK

drawing

design

PROPOSED CLEARING PLAN

designed TIM JORDAN conçu

date OCTOBER 2017

drawn CORY BAKER dessiné

date OCTOBER 2017

approved MICHAEL MACDONALD approuvé

date OCTOBER 2017

Tender

Submission

PCA Project Manager

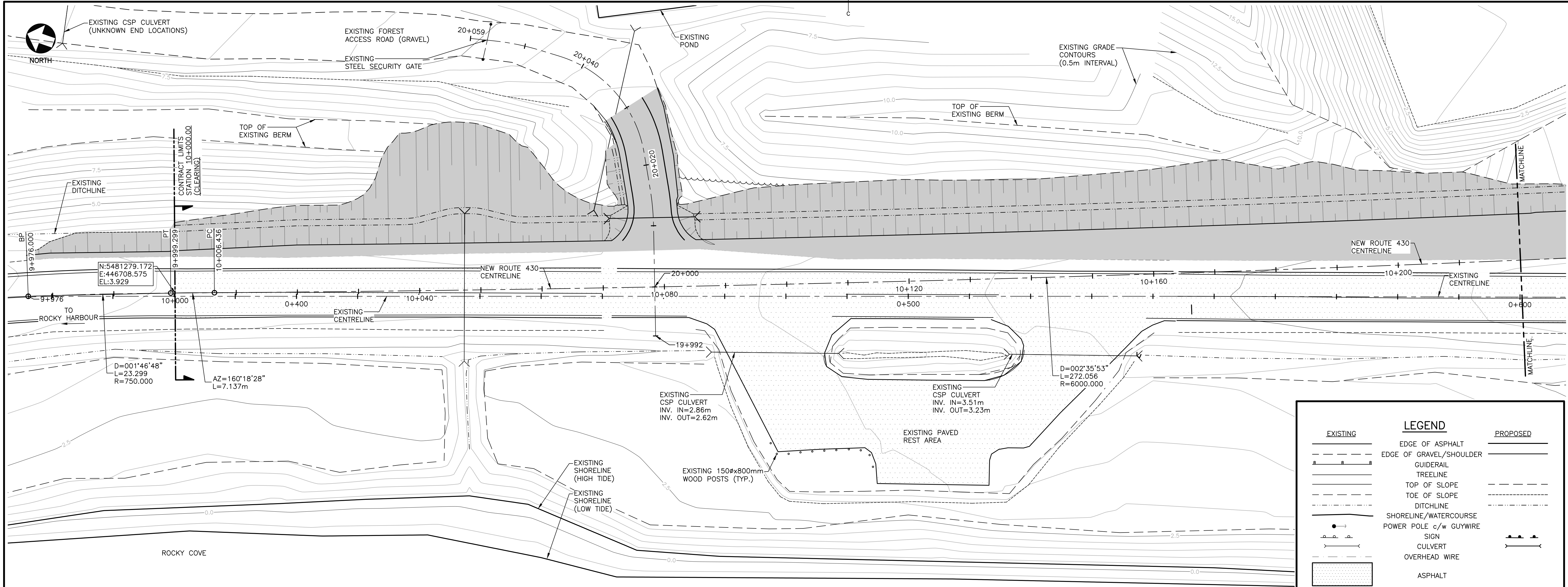
no. du projet

1813/1845

drawing no.

no. du dessin

RB-C1



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



LEGEND	
EXISTING	PROPOSED
	EDGE OF ASPHALT
	EDGE OF GRAVEL/SHOULDER
	GUIDELINE
	TREELINE
	TOP OF SLOPE
	TOE OF SLOPE
	DITCHLINE
	SHORELINE/WATERCOURSE
	POWER POLE c/w GUYWIRE
	SIGN
	CULVERT
	OVERHEAD WIRE
	ASPHALT
	EARTHWORKS

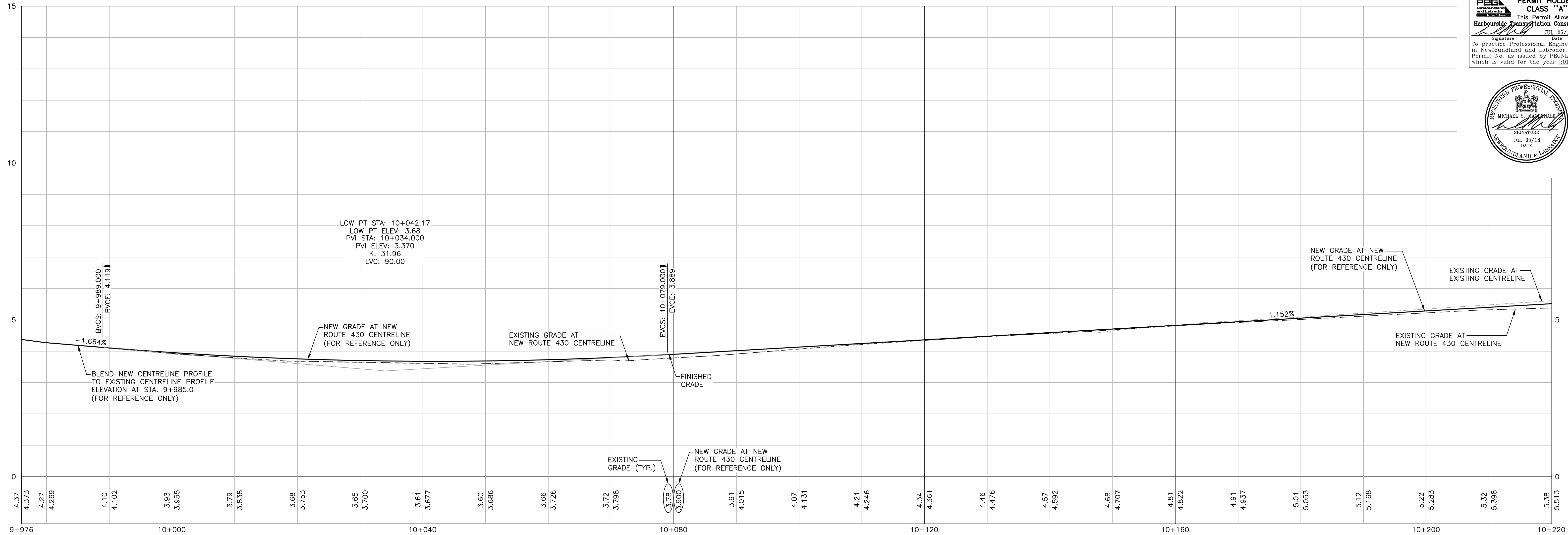
- GENERAL NOTES:
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 - FOR GEOTECHNICAL INFORMATION SEE REPORT BY HGC DATED AUG. 31, 2017.

- 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

PROVINCE OF NEWFOUNDLAND
CLASS "A"
This Permit Allows
Harbourside Transportation Consultants
To practice Professional Engineering
in Newfoundland and Labrador.
Permit No. as issued by PEOENL N0783
which is valid for the year 2018.



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



0	ISSUED FOR TENDER	JUL 05 2018
revisions		date

project
RE-ALIGNMENT AND RE-CONSTRUCTION OF HIGHWAY 430 NEAR ROCKY BARACHOIS BROOK GROS MORNE NATIONAL PARK

drawing
designed

PROPOSED ROUTE 430 STA. 9+976 TO 10+220

designed TIM JORDAN conçu

date AUGUST 2017

drawn CORY BAKER dessiné

date AUGUST 2017

approved MICHAEL MACDONALD approuvé

date AUGUST 2017

Tender Soumission

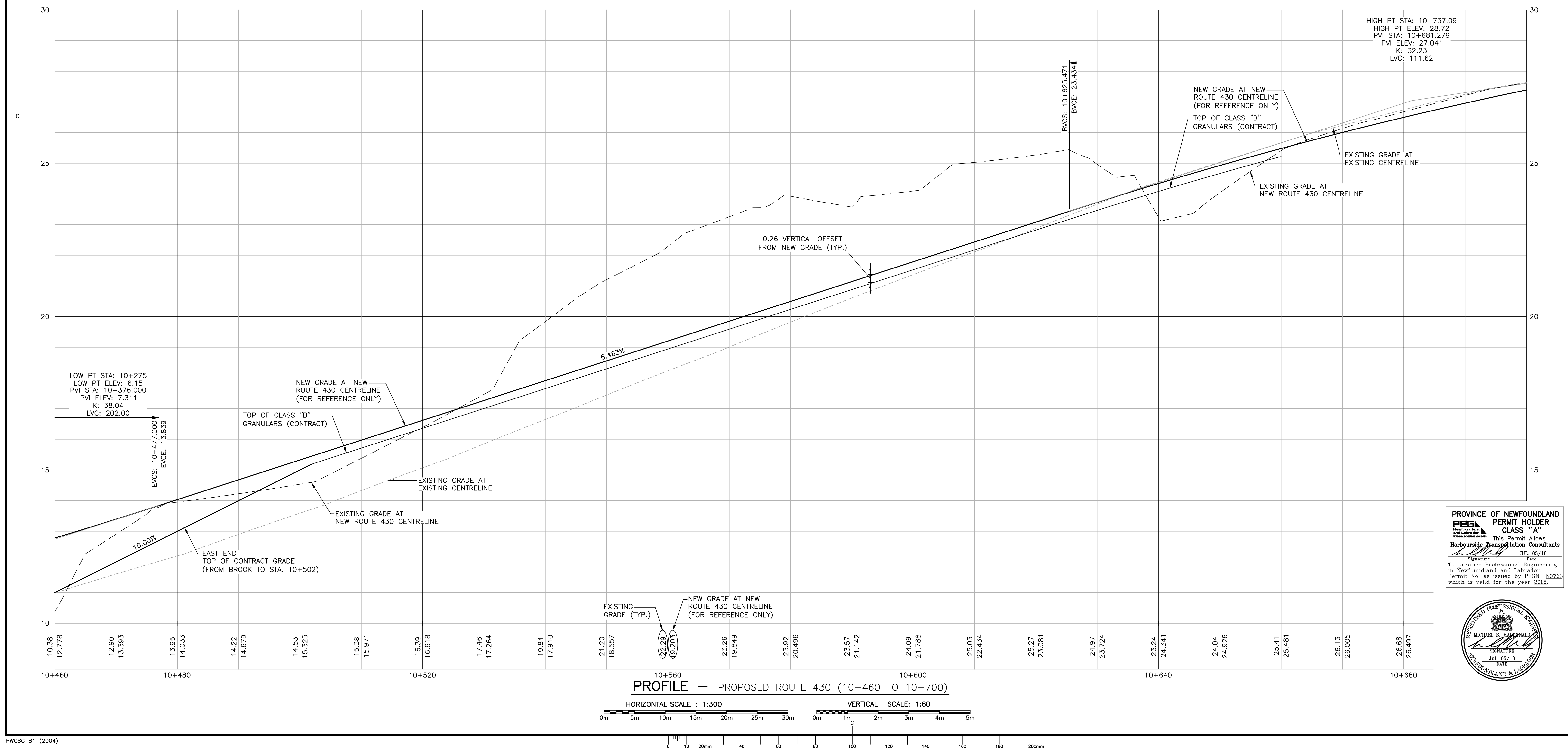
PCA Project Manager Administrateur de projets APC

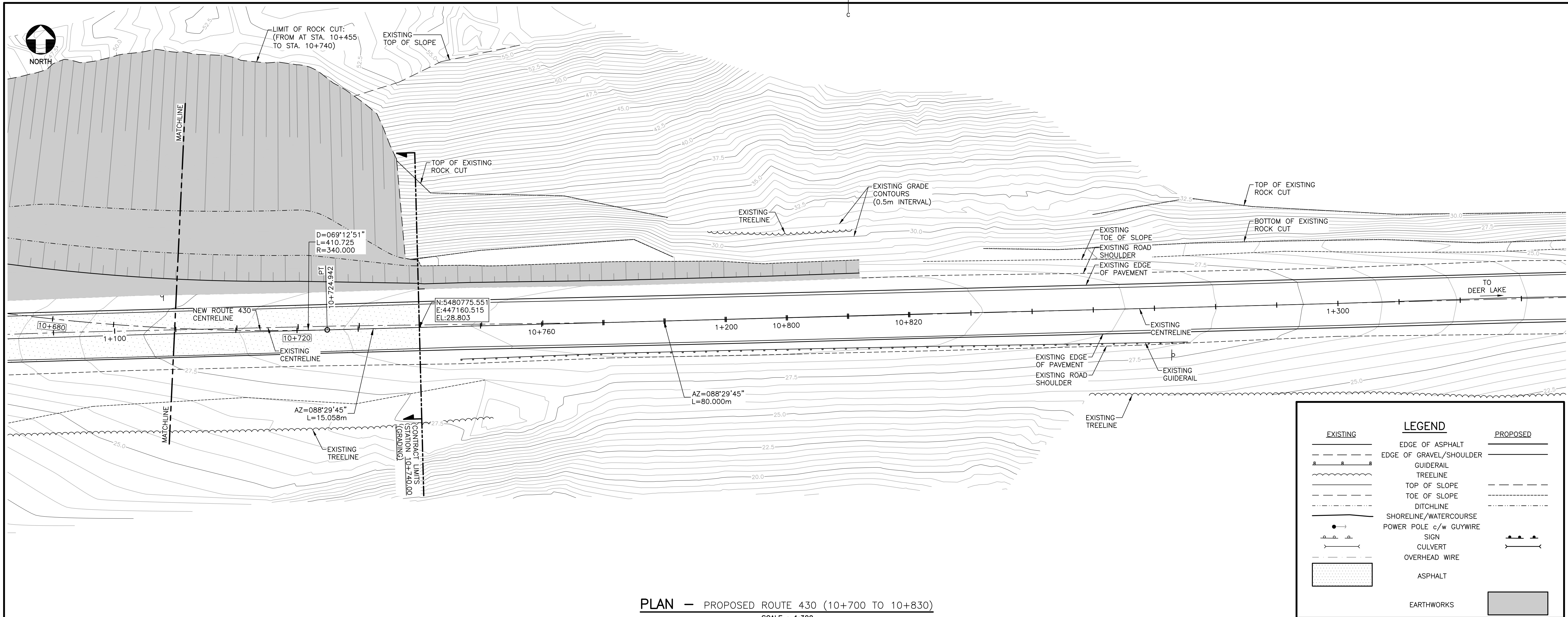
project number no. du projet

1813/1845

drawing no. no. du dessin

RB-C2





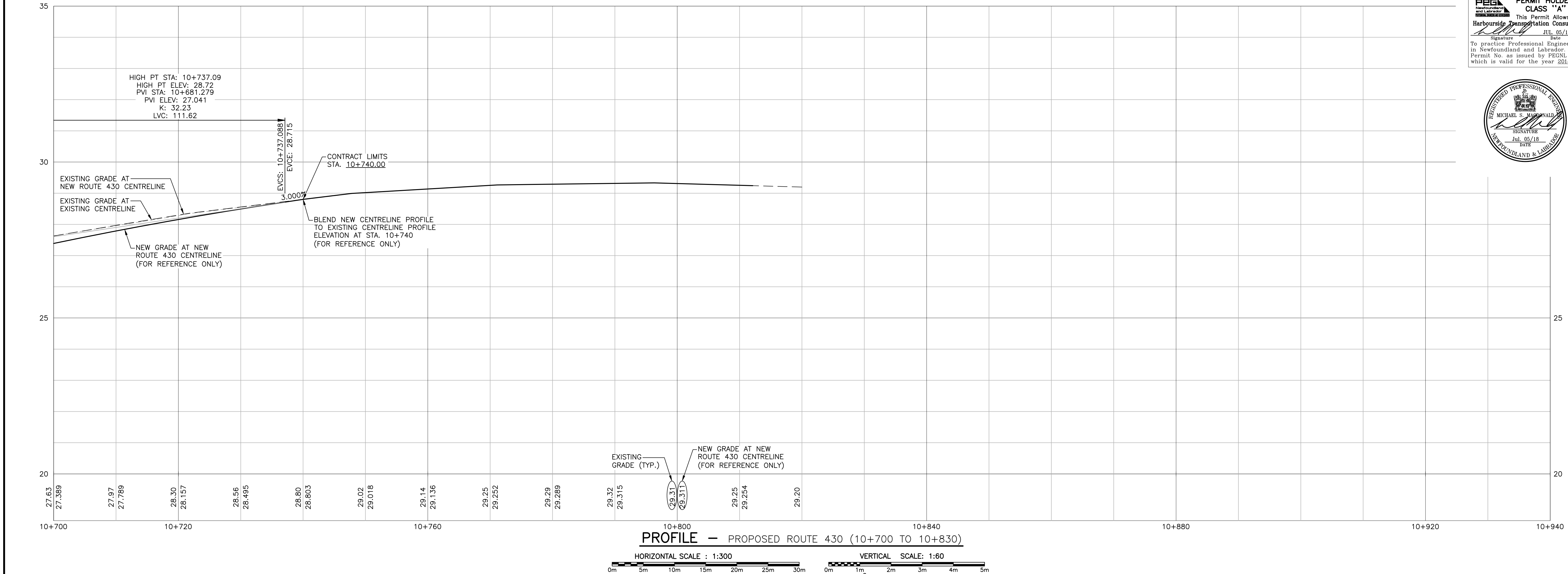
PLAN — PROPOSED ROUTE 430 (10+700 TO 10+830)
SCALE : 1:300

EXISTING	LEGEND	PROPOSED
	EDGE OF ASPHALT	
	GUIDELINE	
	TOP OF SLOPE	
	TOE OF SLOPE	
	SHORELINE/WATERCOURSE	
	SIGN	
	OVERHEAD WIRE	
	EARTHWORKS	

- GENERAL NOTES:
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 - CONTOUR INTERVAL IS 0.5 METER.
 - FOR GEOTECHNICAL INFORMATION SEE REPORT BY HGC DATED AUG. 31, 2017.

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- 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

PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
CLASS "A"
This Permit Allows
Harbourside Transportation Consultants
Signature: [Signature]
Date: Jul. 05/18
To practice Professional Engineering
in Newfoundland and Labrador.
Permit No. as issued by PEOEL N0783
which is valid for the year 2018.



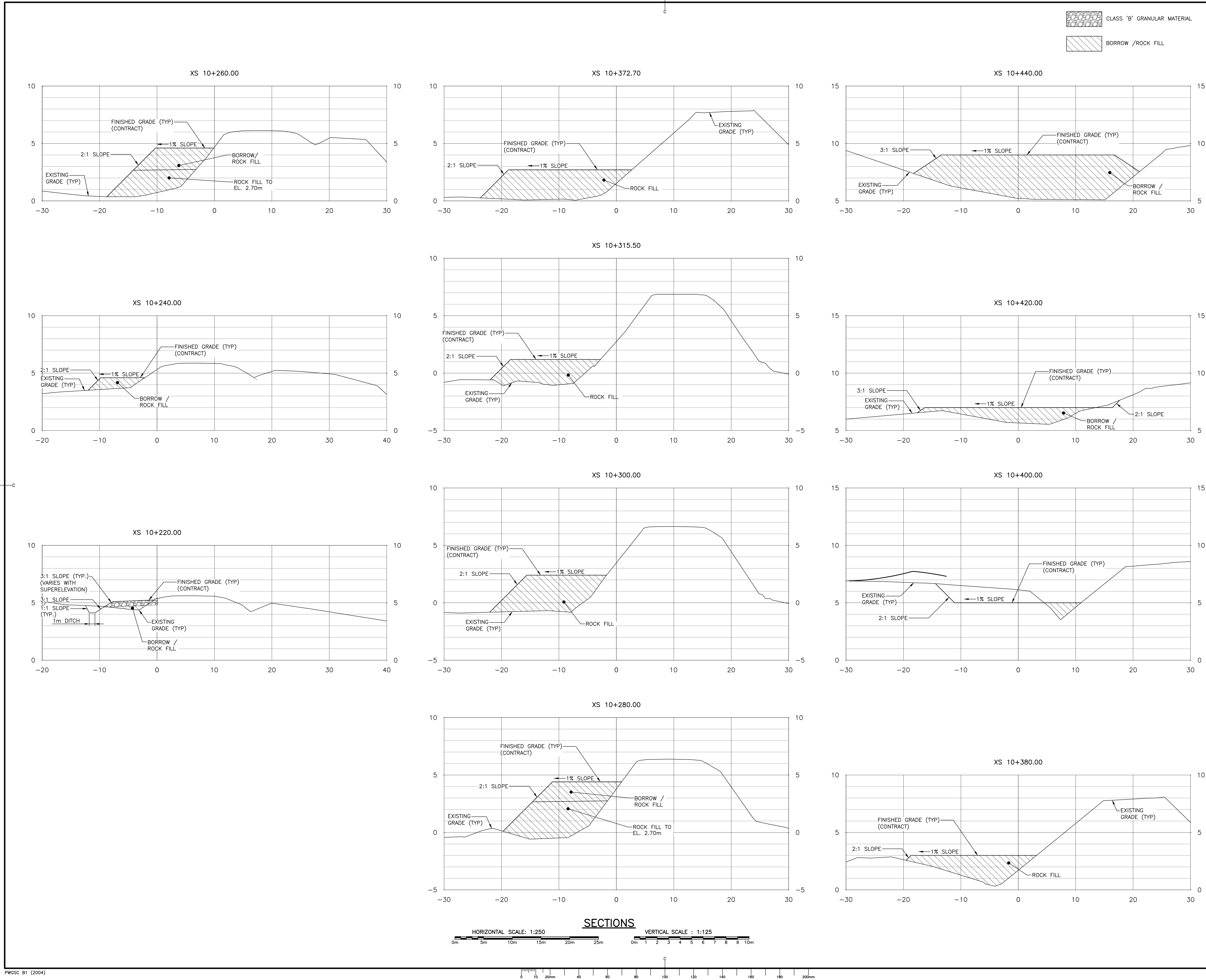
PROFILE — PROPOSED ROUTE 430 (10+700 TO 10+830)
HORIZONTAL SCALE : 1:300
VERTICAL SCALE: 1:60

0	ISSUED FOR TENDER	JUL 05 2018
revisions		date

project
RE-ALIGNMENT AND RE-CONSTRUCTION OF HIGHWAY 430 NEAR ROCKY BARACHOIS BROOK GROS MORNE NATIONAL PARK
drawing
dessin

PROPOSED ROUTE 430 STA. 10+700 TO 10+812

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	1813/1845	no. du projet
drawing no.	RB-C5	no. du dessin



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

PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
CLASS "A"
This Permit Allows
Harbourside Transportation Consultants
to practice Professional Engineering
in Newfoundland and Labrador.
Signature: MICHAEL S. MACDONALD
Date: Jul. 05/18
Permit No. as issued by PEGNL 007263
which is valid for the year 2018.



0	ISSUED FOR TENDER	JUL 05 2018
revisions		date

project
RE-ALIGNMENT AND
RE-CONSTRUCTION OF
HIGHWAY 430 NEAR
ROCKY BARACHOIS BROOK
GROS MORNE NATIONAL PARK

drawing
design

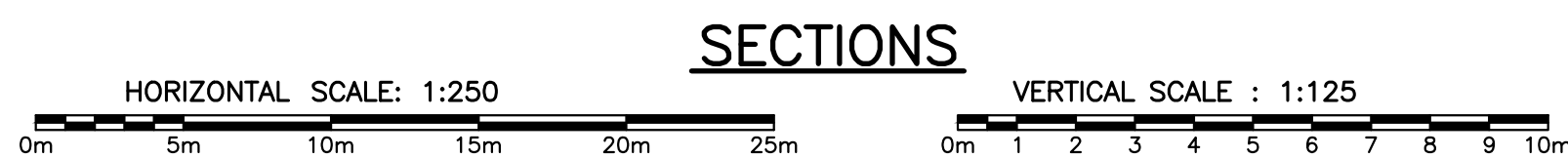
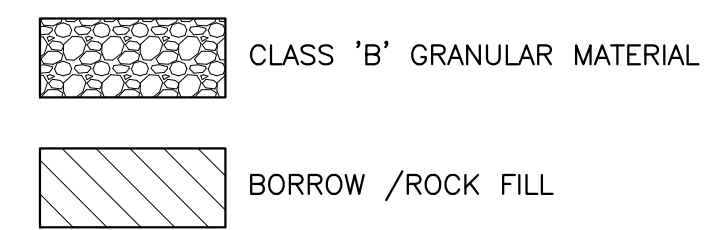
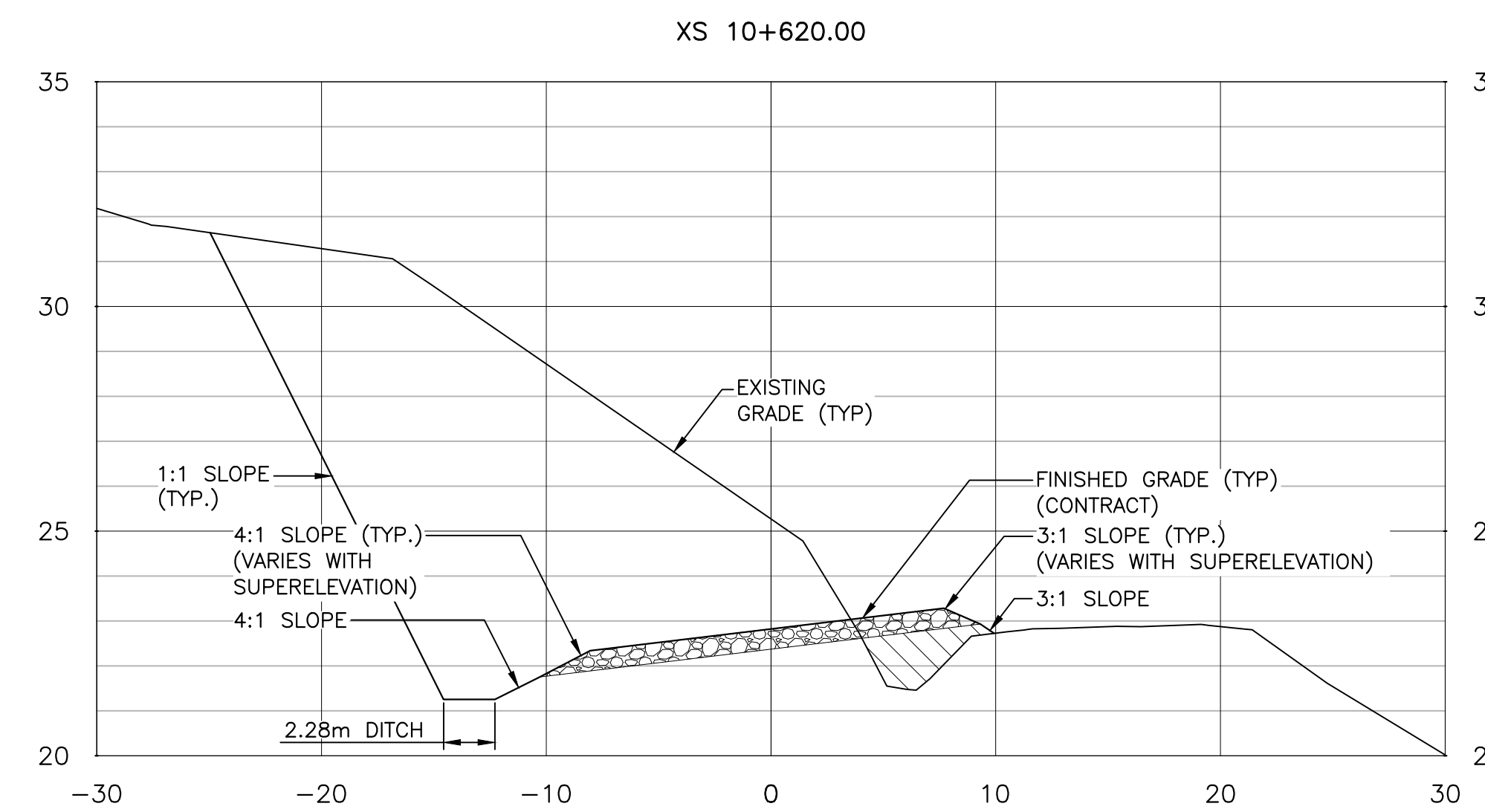
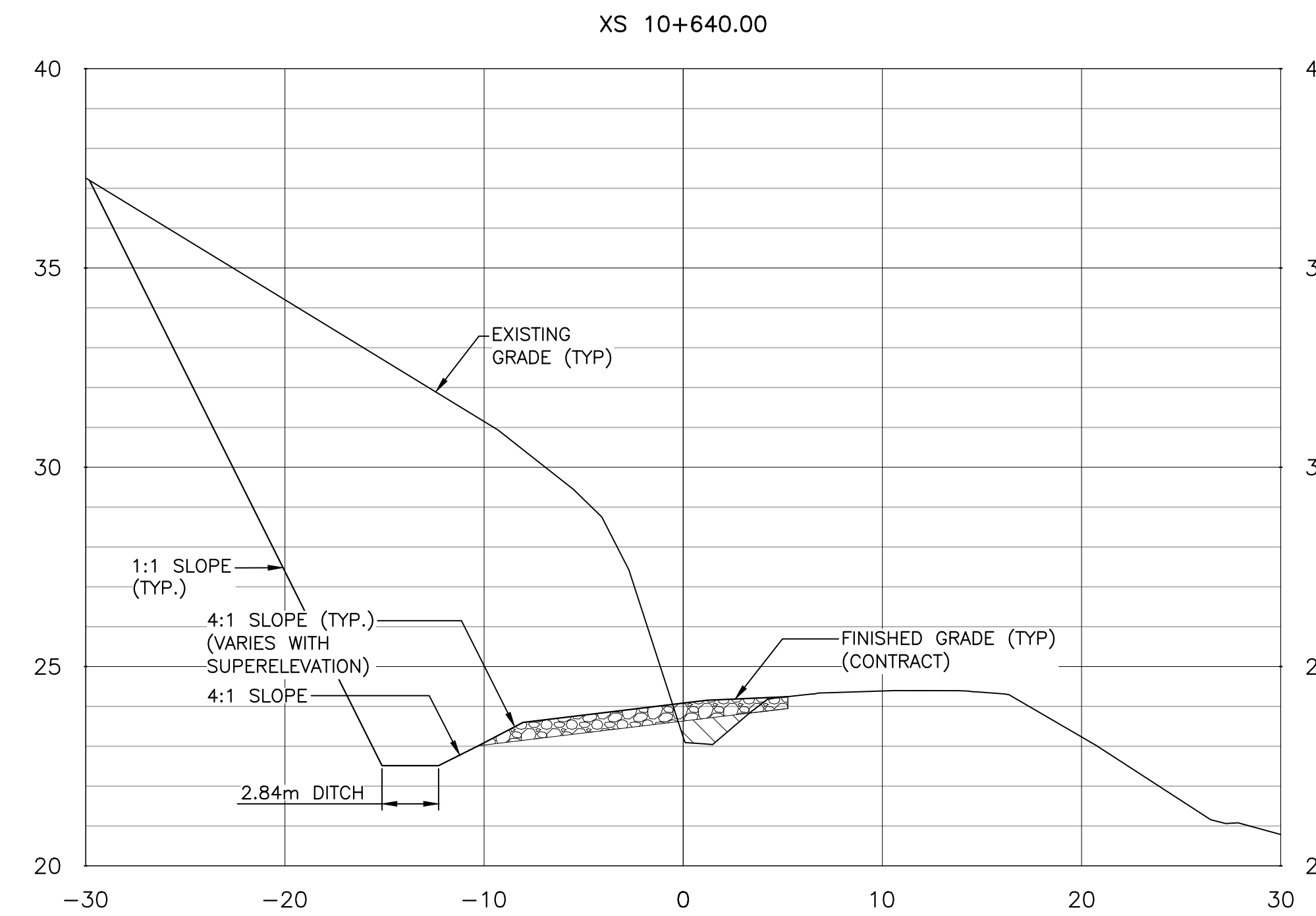
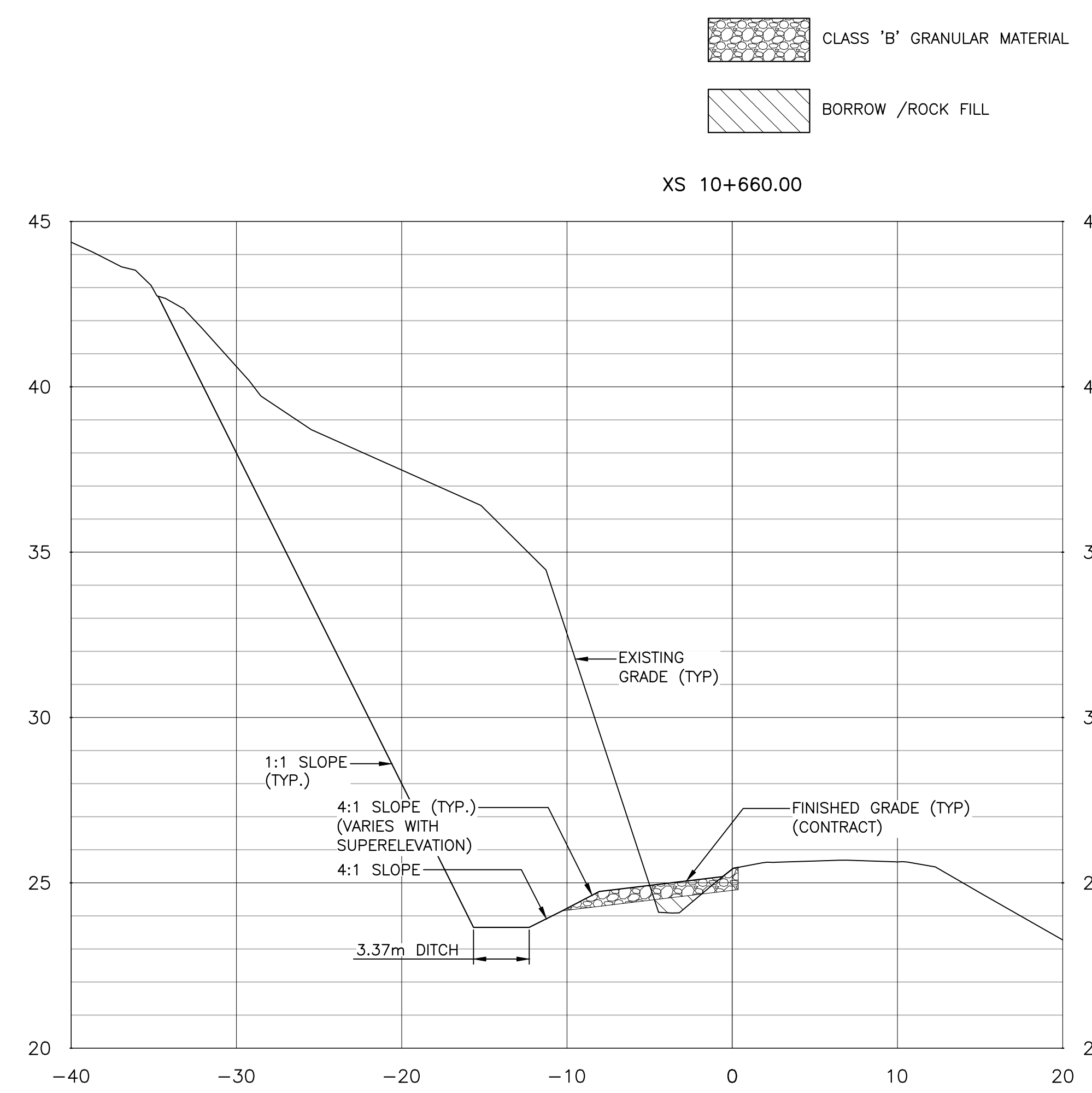
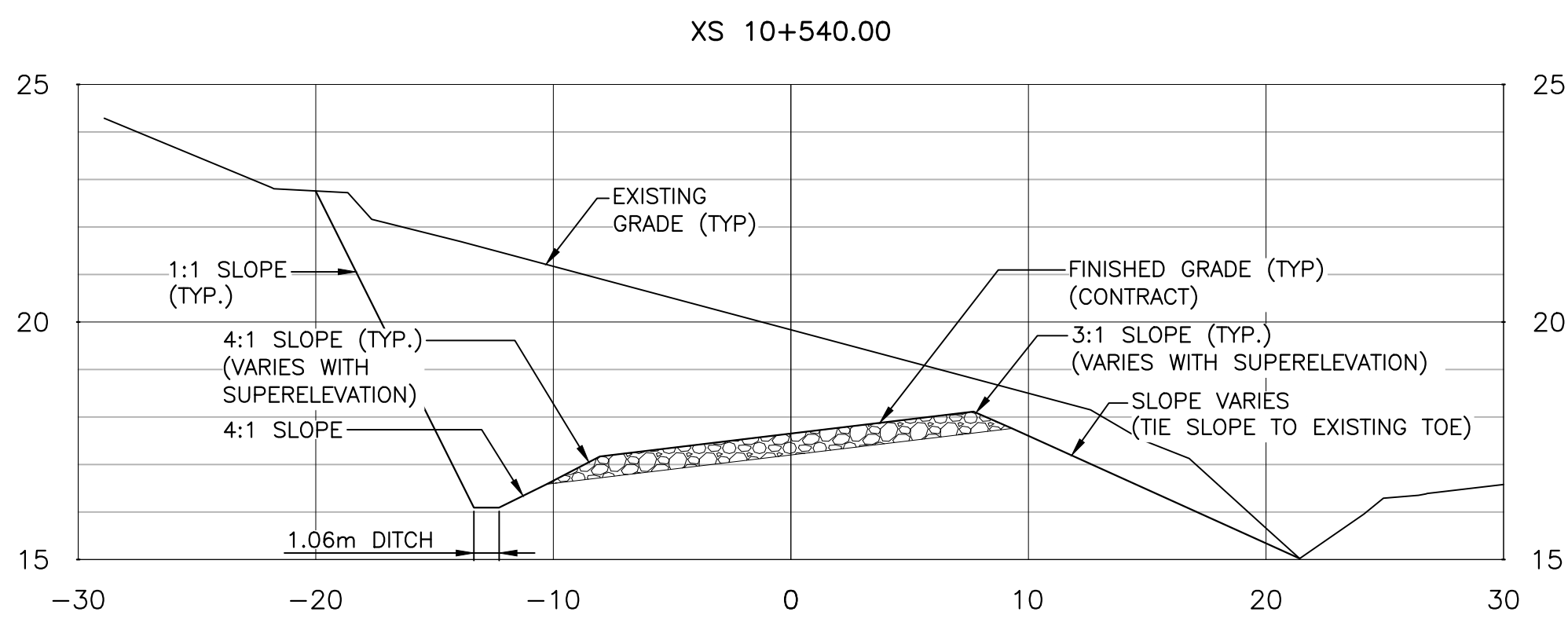
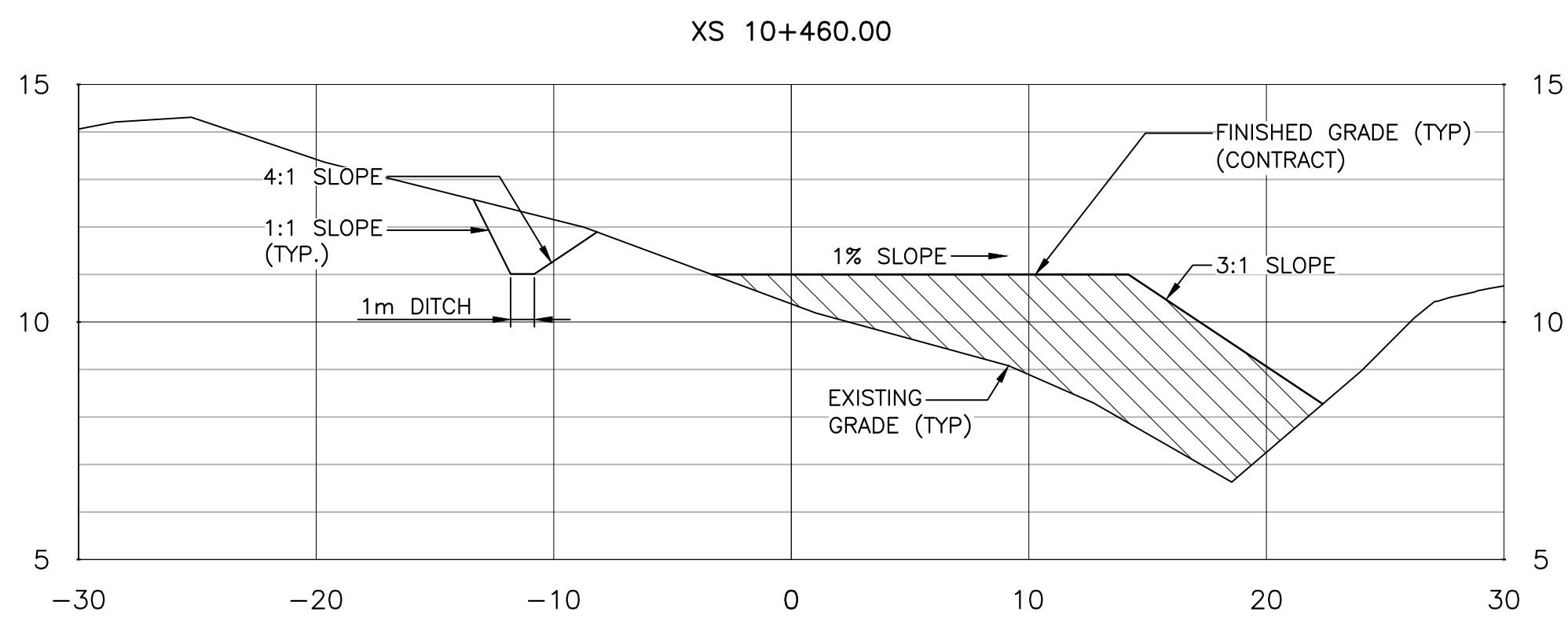
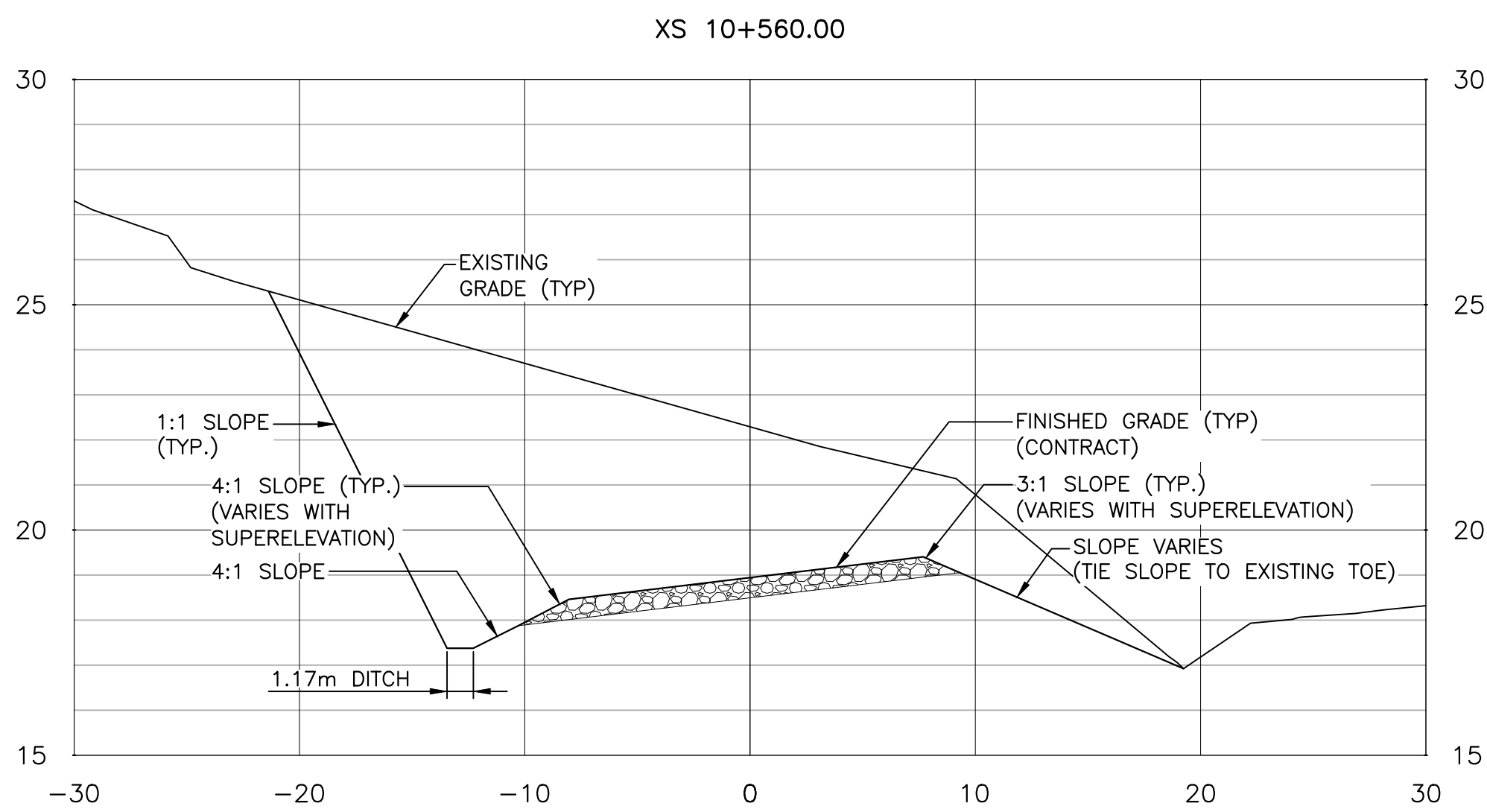
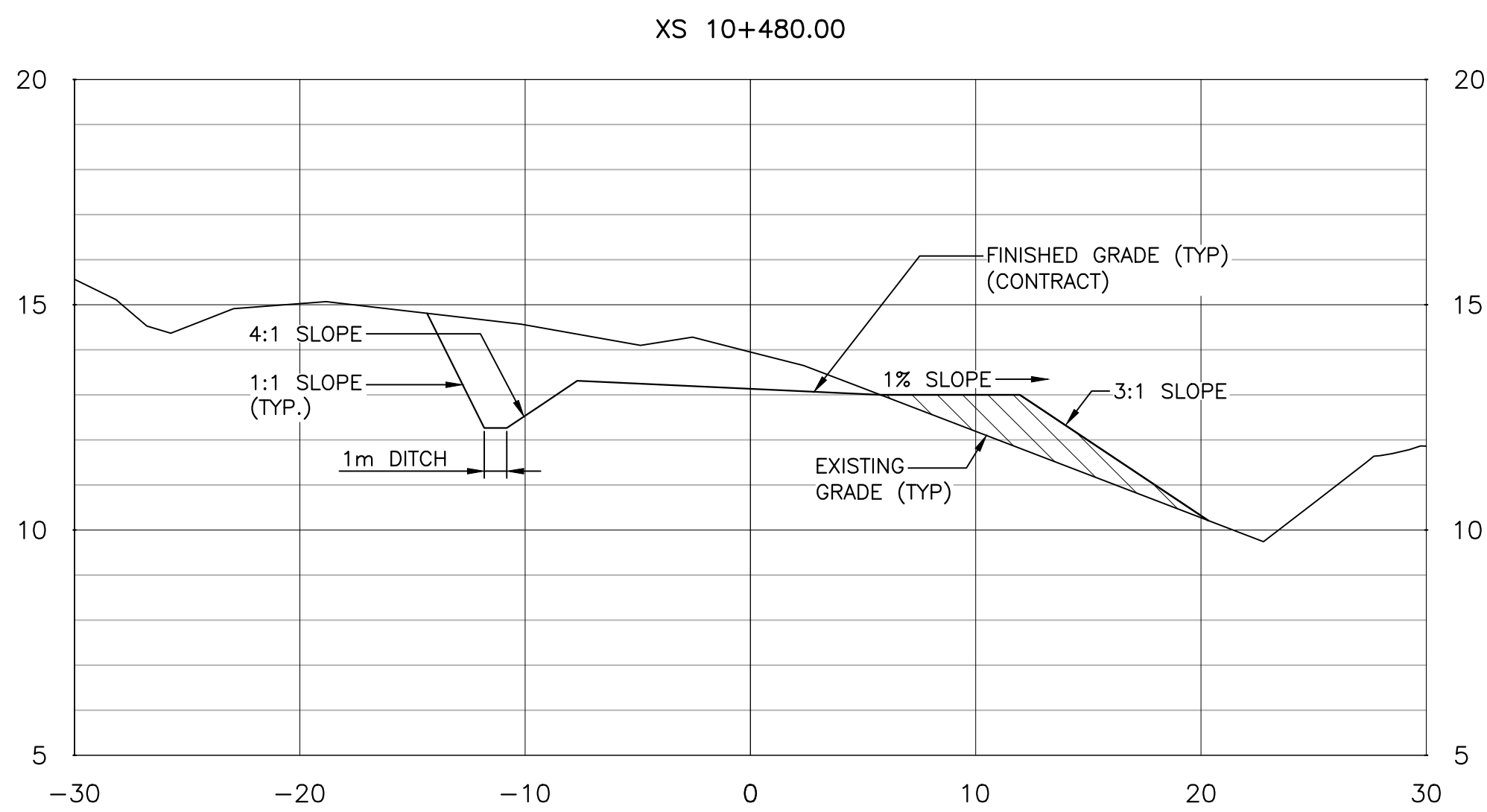
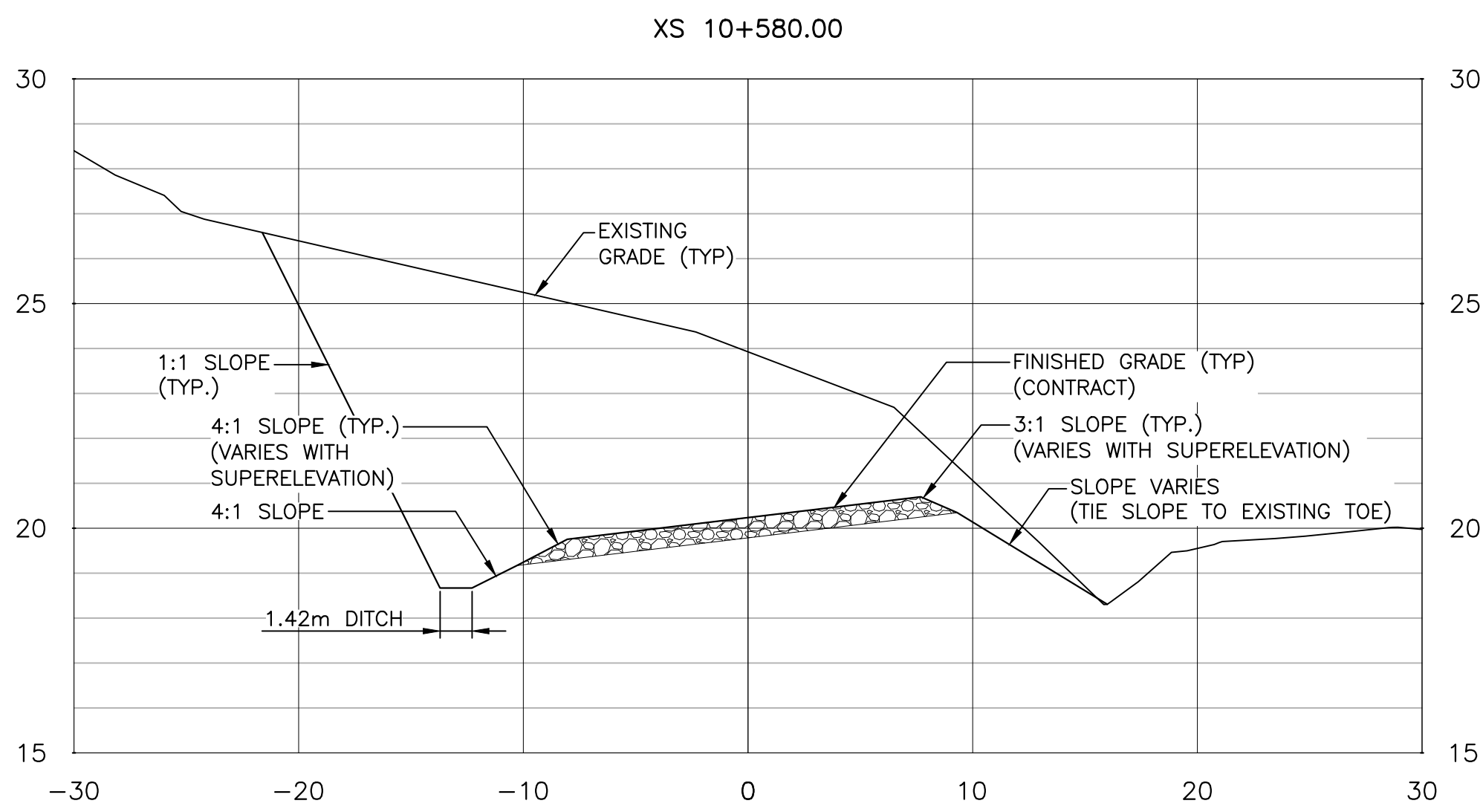
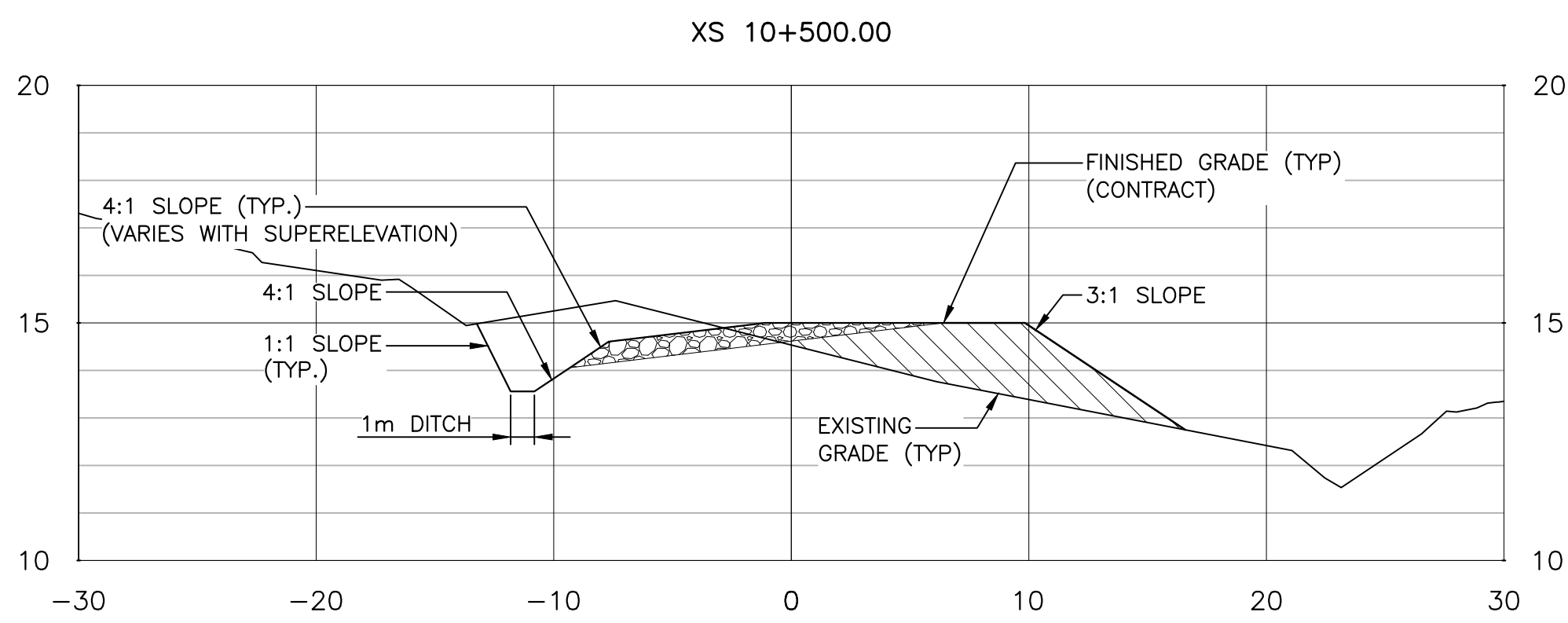
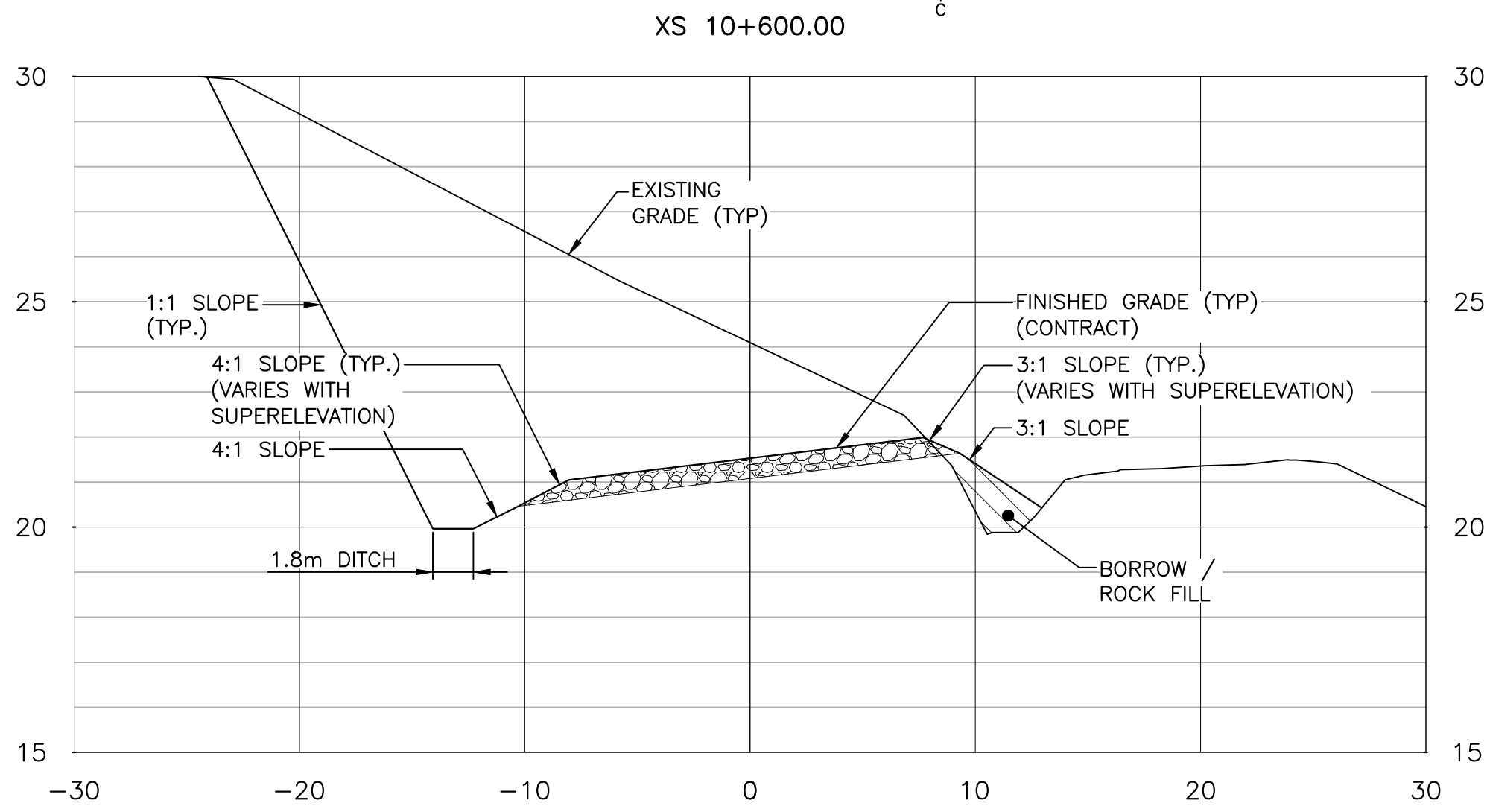
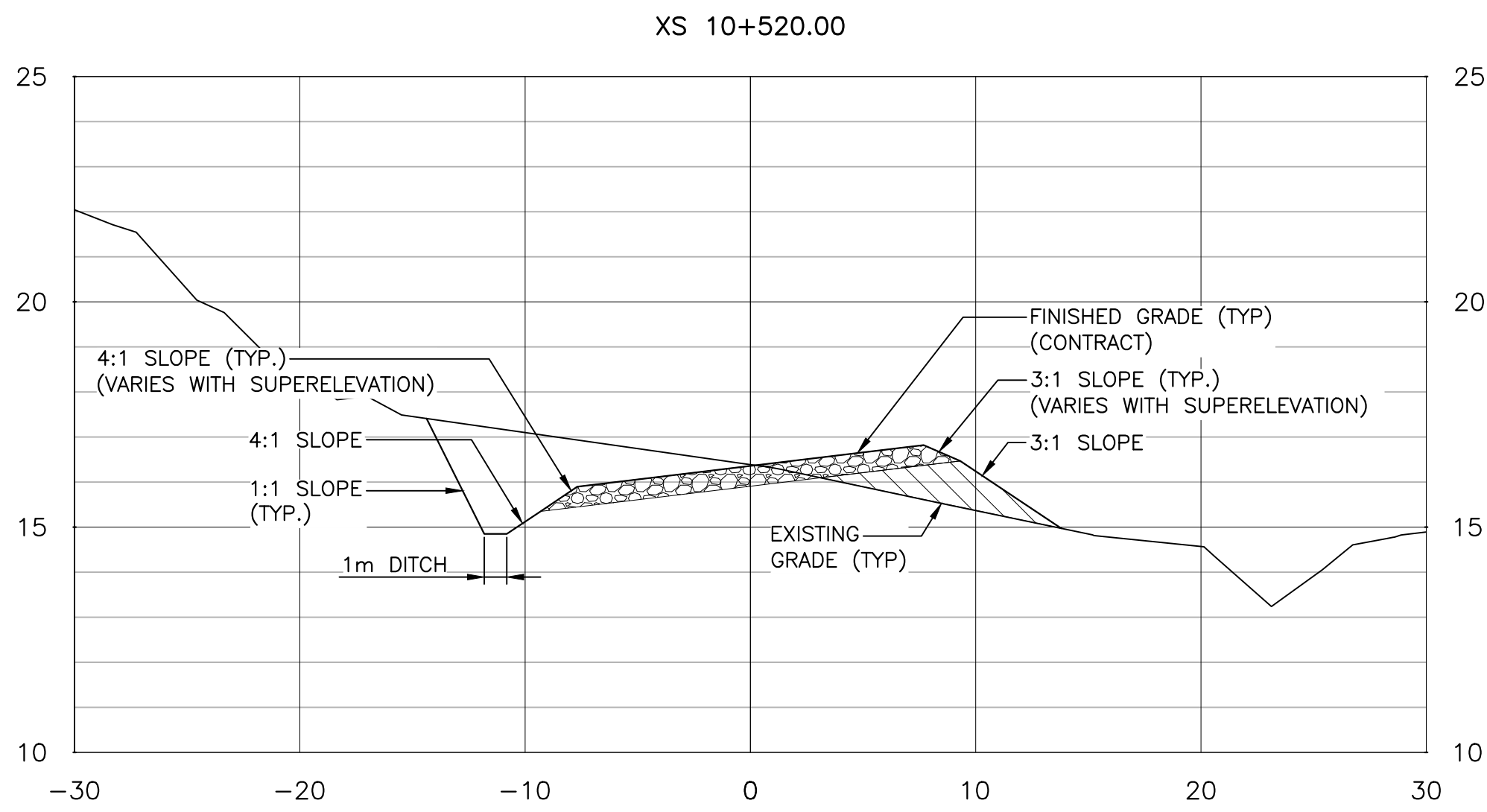
CROSS SECTIONS
(SHEET 1 OF 3)

designed TIM JORDAN conçu
date AUGUST 2017
drawn CORY BAKER dessiné
date AUGUST 2017
approved MICHAEL MACDONALD approuvé
date AUGUST 2017
Tender Soumission

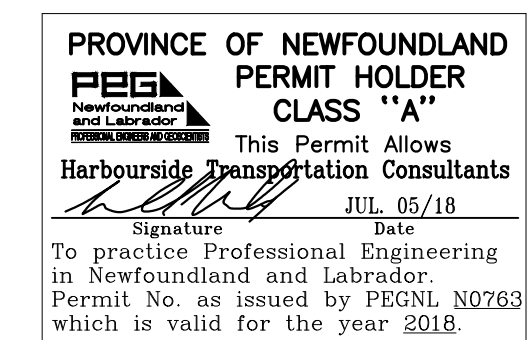
PCA Project Manager Administrateur de projets APC

project number 1813/1845 no. du projet

drawing no. RB-C6 no. du dessin



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



0	ISSUED FOR TENDER	JUL 05 2018
revisions		date

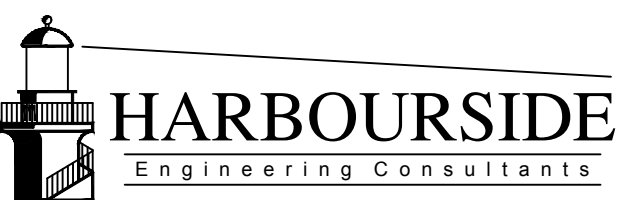
project
RE-ALIGNMENT AND RE-CONSTRUCTION OF HIGHWAY 430 NEAR ROCKY BARACHOIS BROOK GROS MORNE NATIONAL PARK

drawing
dessin

CROSS SECTIONS (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	1813/1845	no. du projet
drawing no.	RB-C7	no. du dessin

CLASS 'B' GRANULAR MATERIAL
BORROW /ROCK FILL



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

PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
CLASS "A"
This Permit Allows
Harbourside Transportation Consultants
JUL 05/18
Signature Date
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in Newfoundland and Labrador.
Permit No. as issued by PEGNL 00763
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0	ISSUED FOR TENDER	JUL 05 2018
revisions		date

project project
**RE-ALIGNMENT AND
RE-CONSTRUCTION OF
HIGHWAY 430 NEAR
ROCKY BARACHOIS BROOK
GROS MORNE NATIONAL PARK**

drawing dessin

**CROSS SECTIONS
(SHEET 3 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

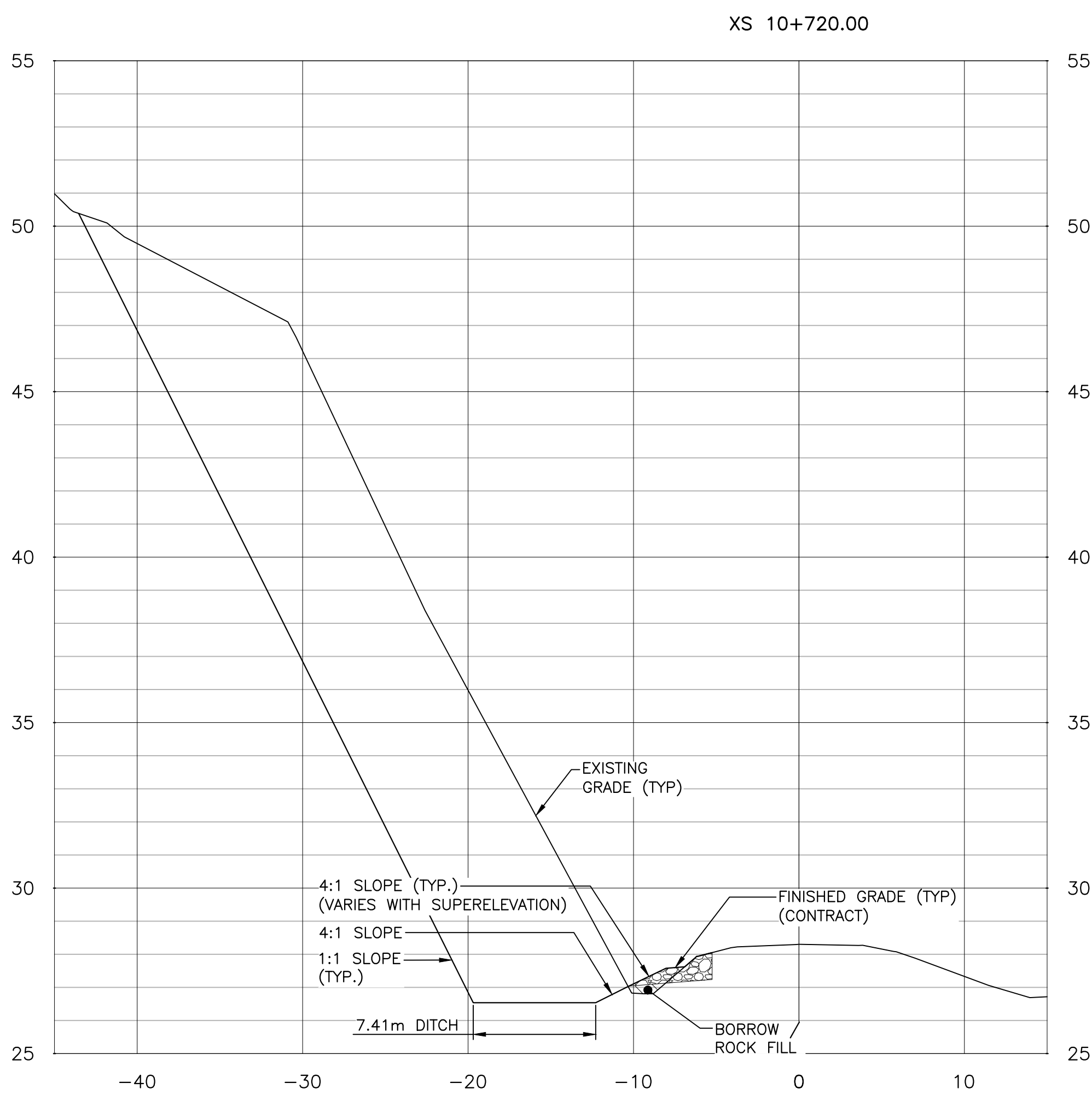
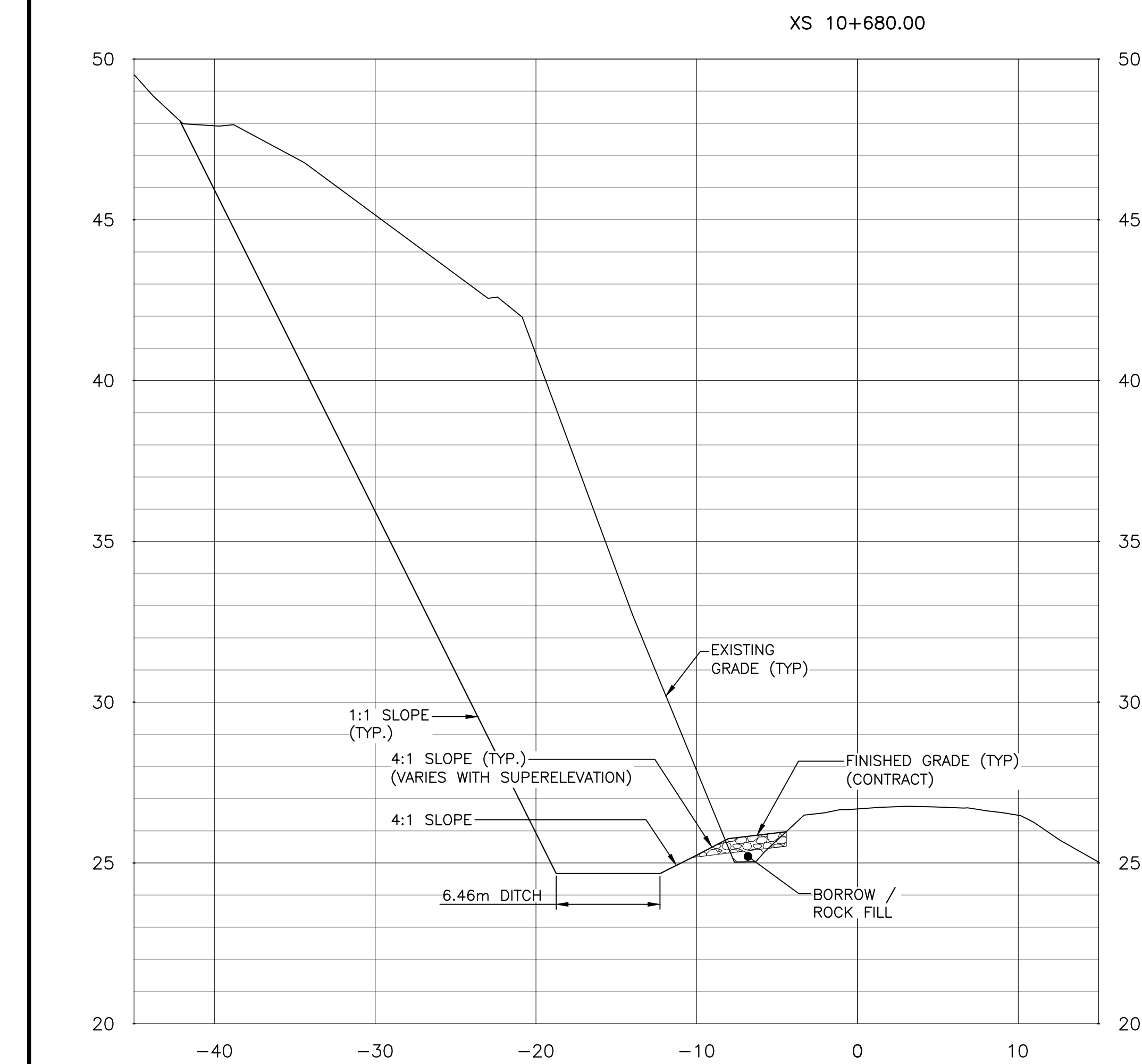
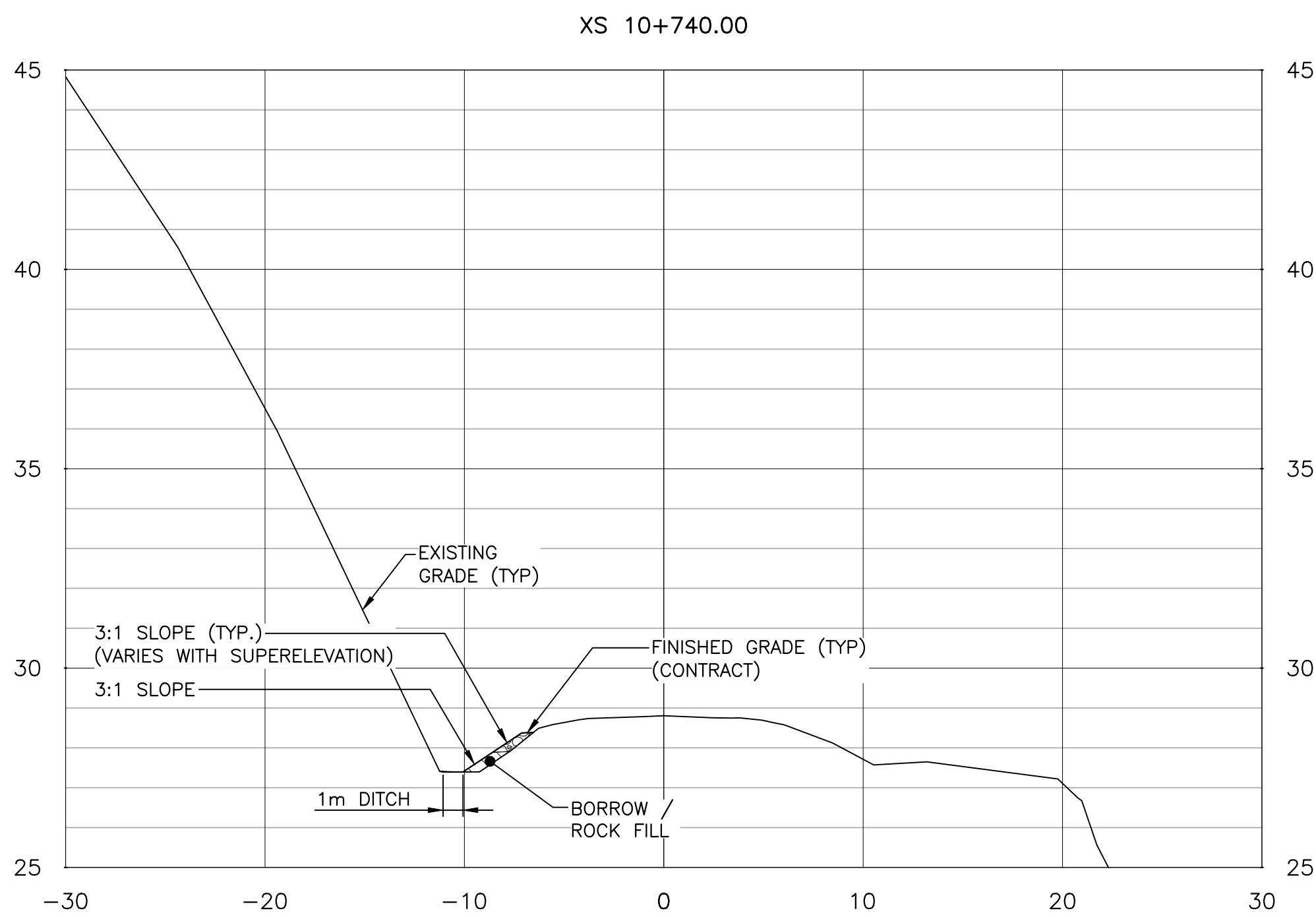
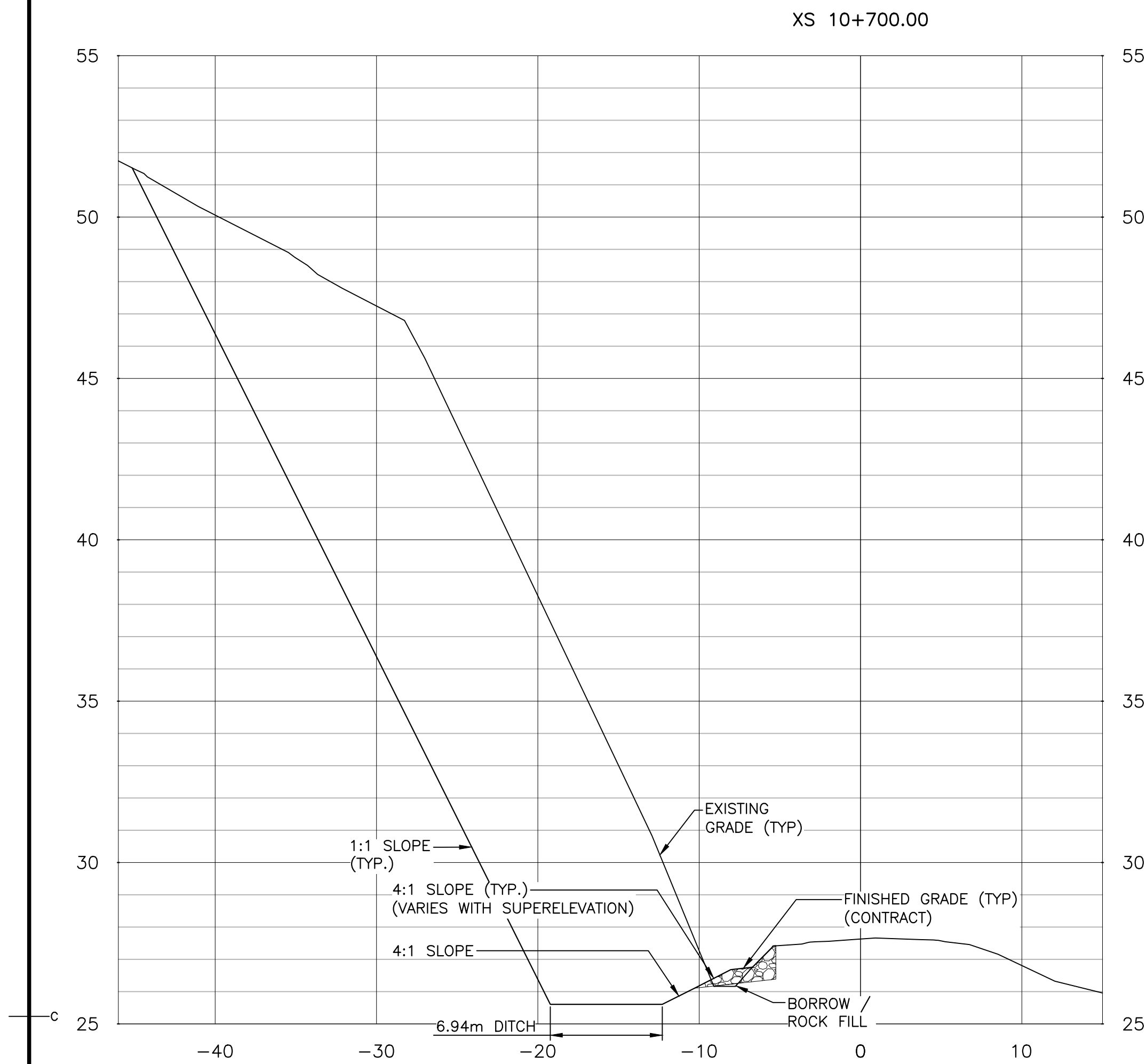
PCA Project Manager Administrateur de projets APC

project number no. du projet

1813/1845

drawing no. no. du dessin

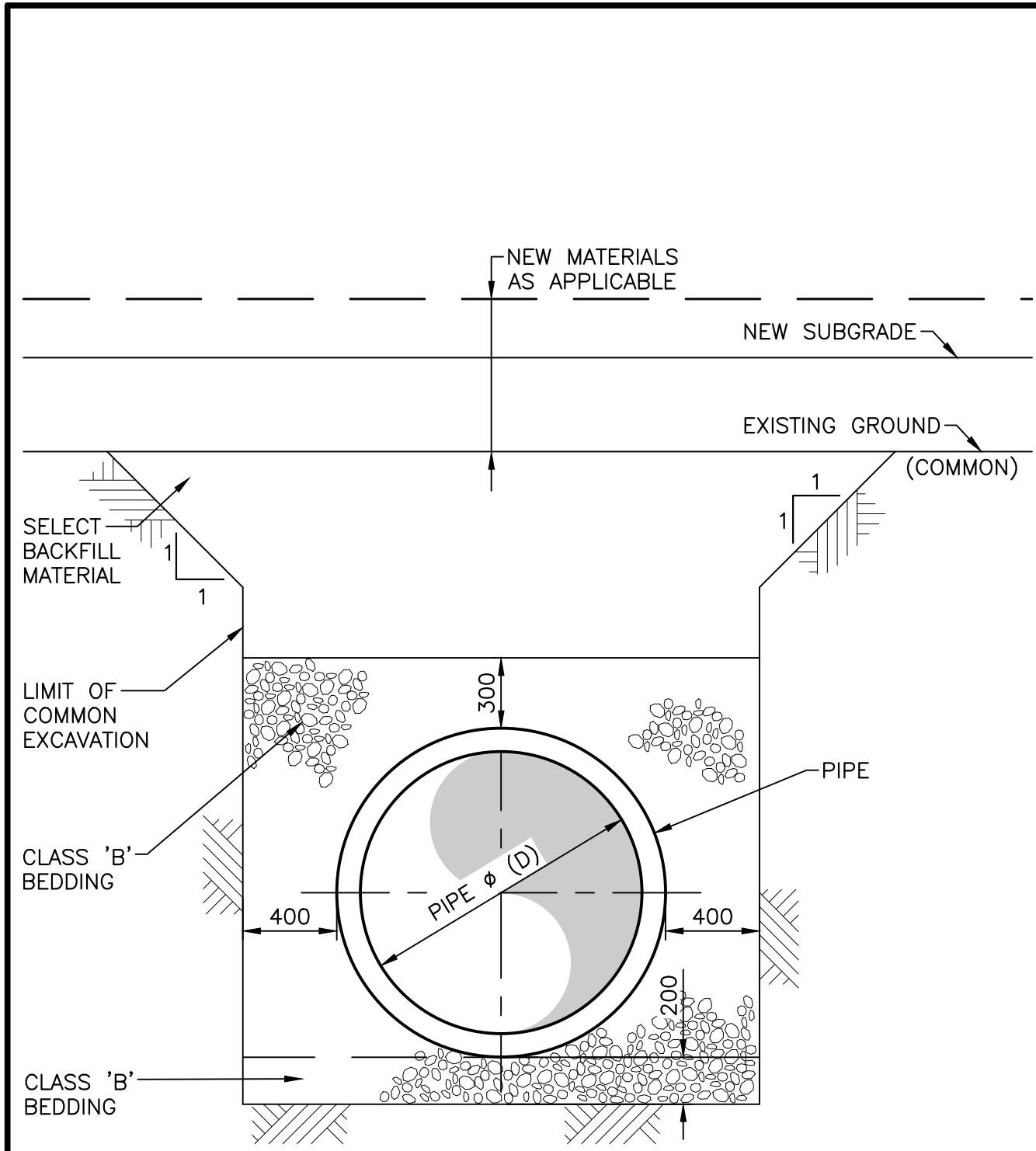
RB-C8



SECTIONS

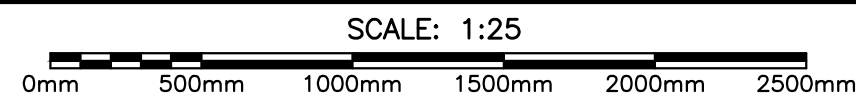
HORIZONTAL SCALE: 1:250
VERTICAL SCALE: 1:125



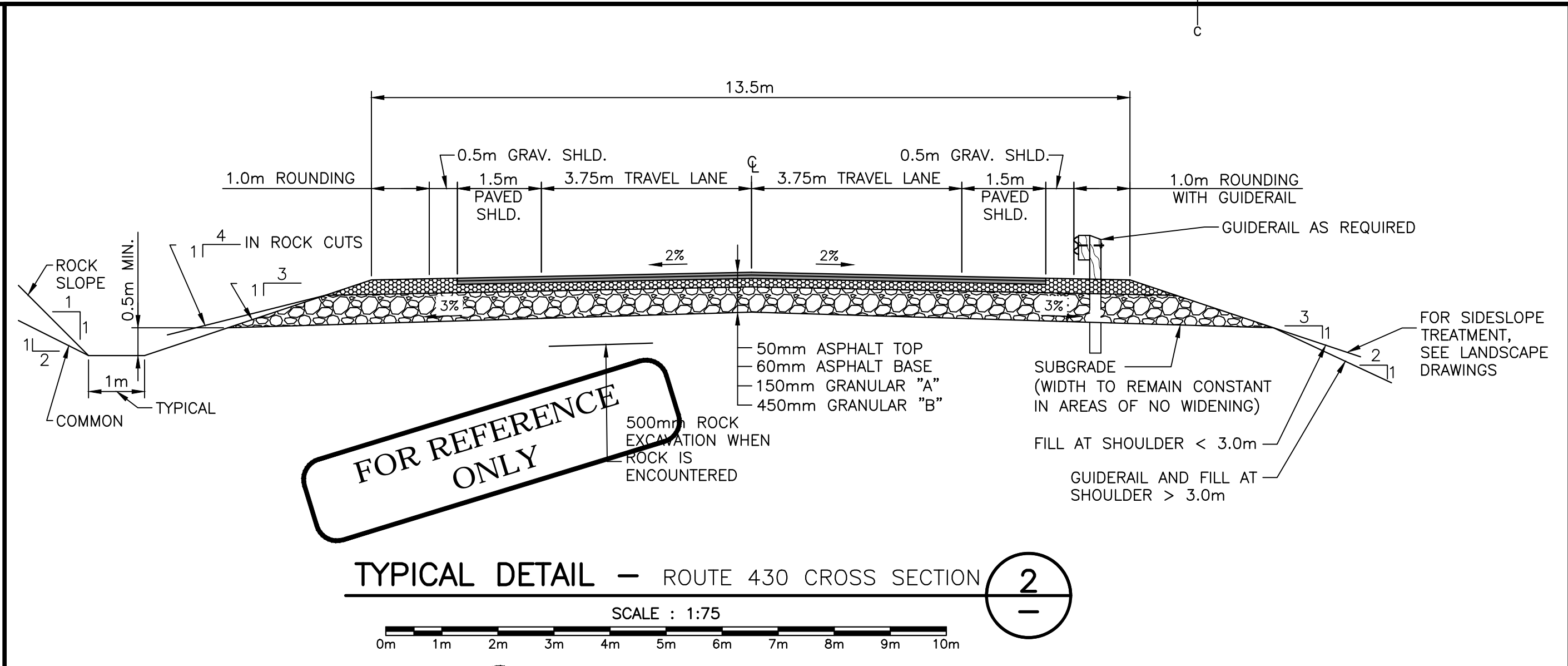


- NOTES:
1. THE CROSS SECTION REPRESENTS MAXIMUM PAY LIMITS FOR EXCAVATION.
 2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

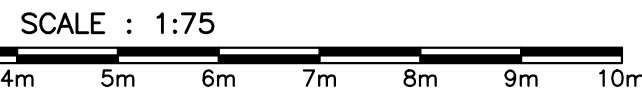
TYPICAL DETAIL — EXCAVATION LIMITS FOR CULVERTS



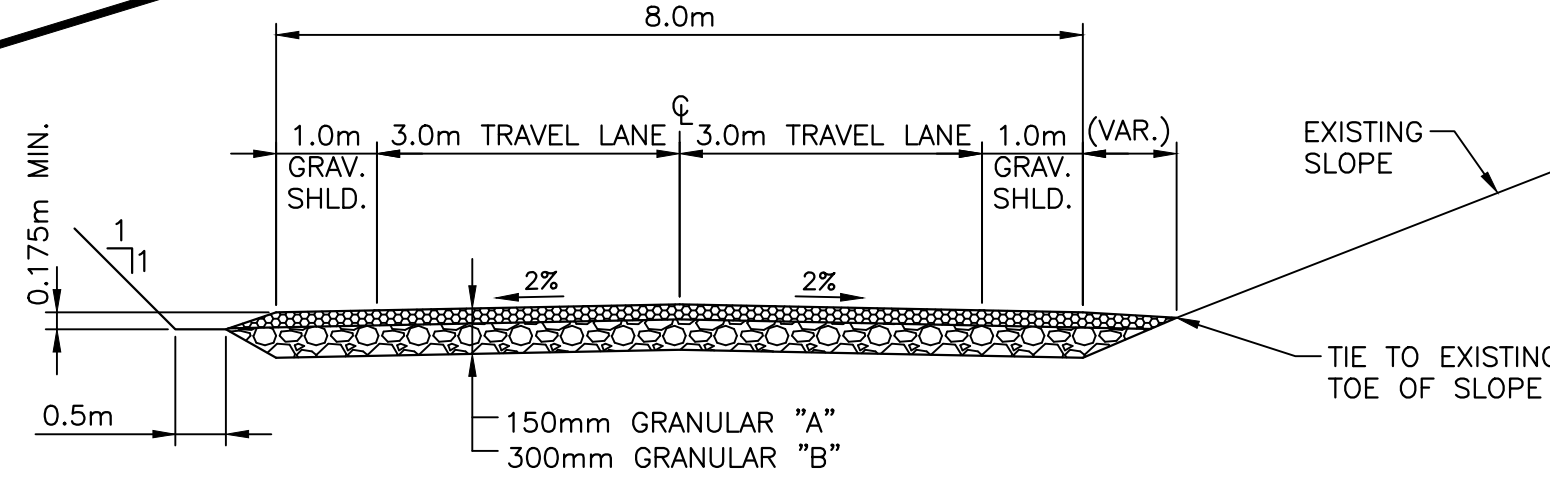
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C2-C3



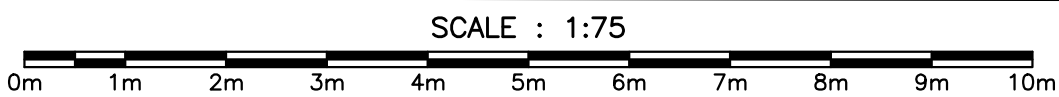
TYPICAL DETAIL — ROUTE 430 CROSS SECTION



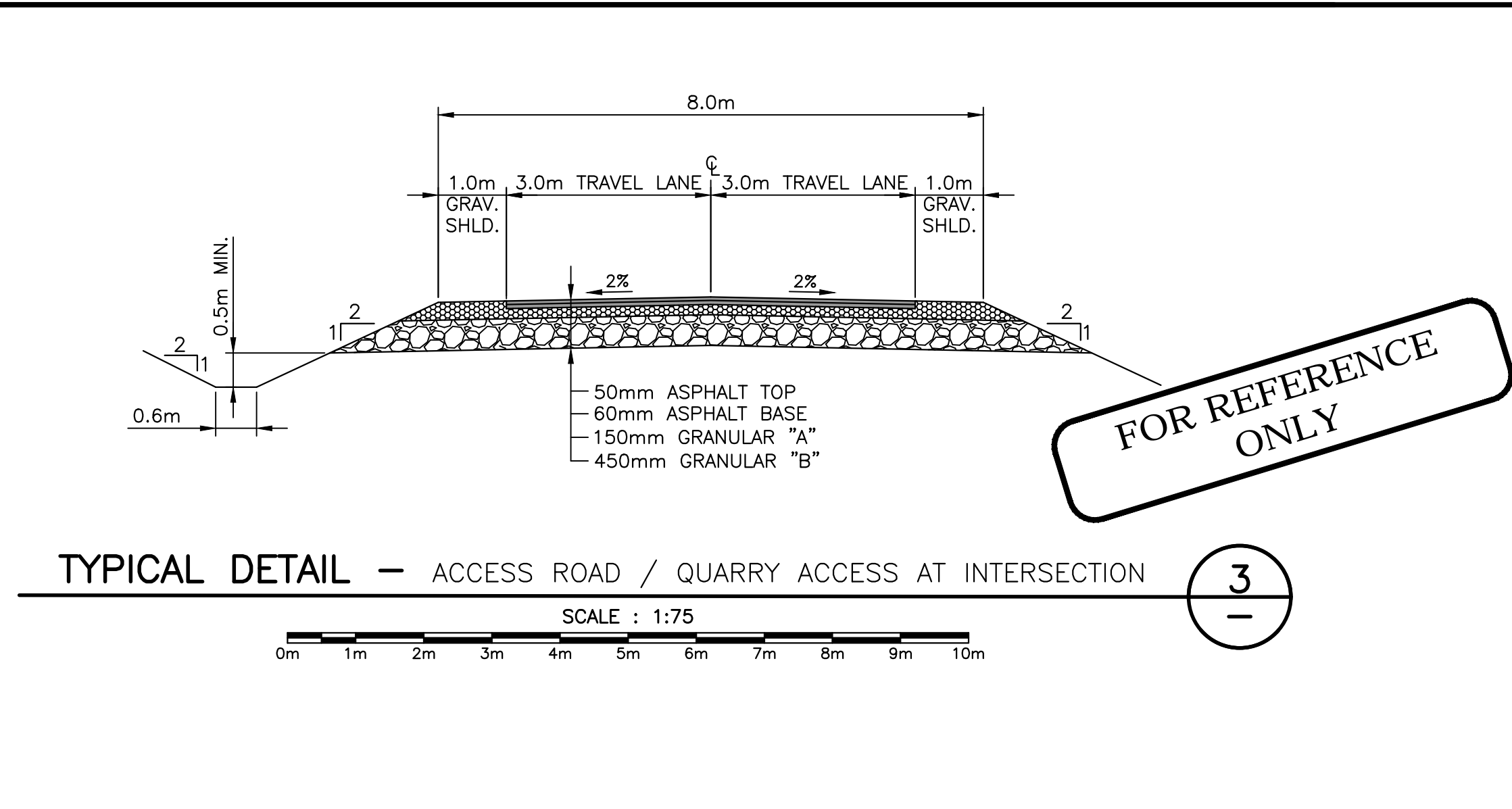
FOR REFERENCE ONLY



TYPICAL DETAIL — ACCESS ROAD / QUARRY ACCESS



4
—

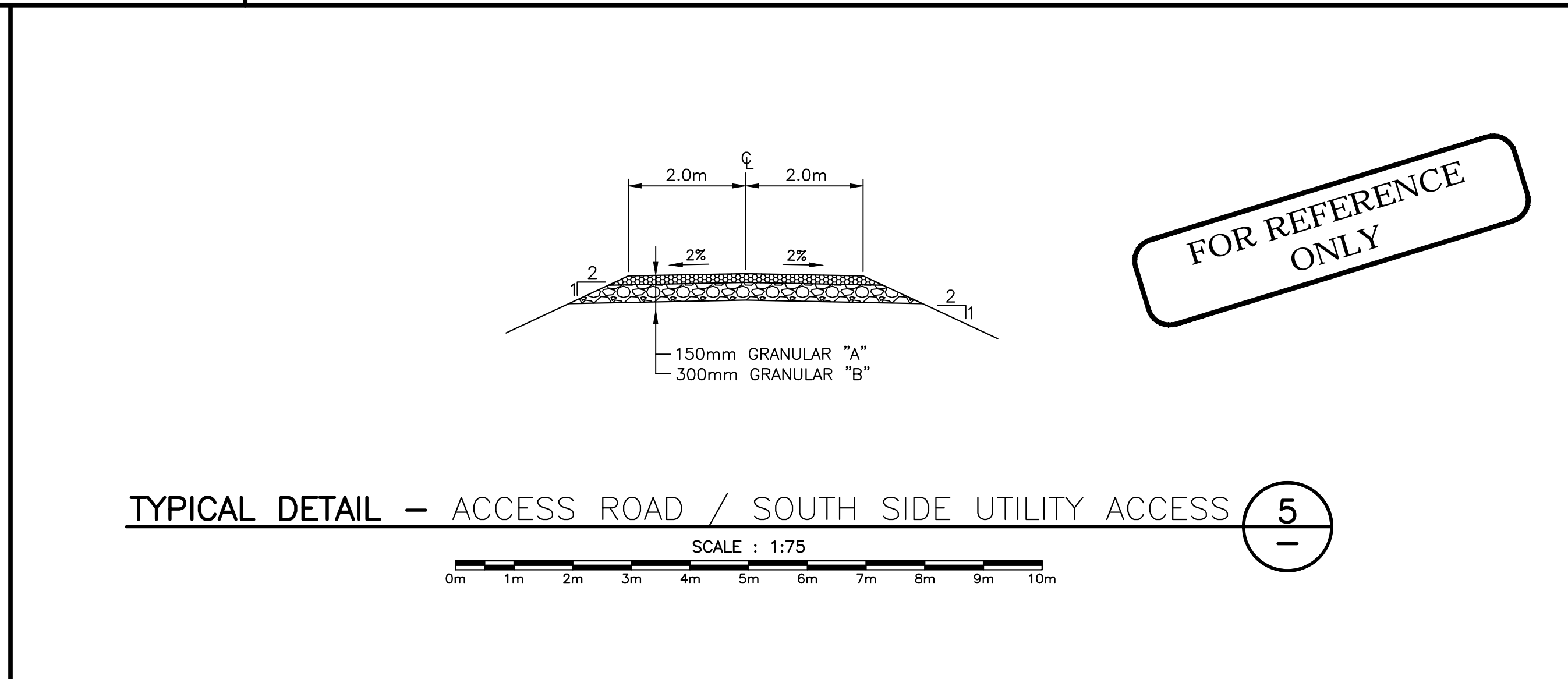


TYPICAL DETAIL — ACCESS ROAD / QUARRY ACCESS AT INTERSECTION

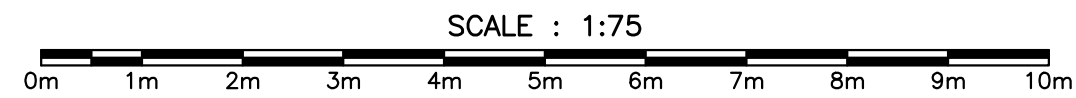


FOR REFERENCE ONLY

3
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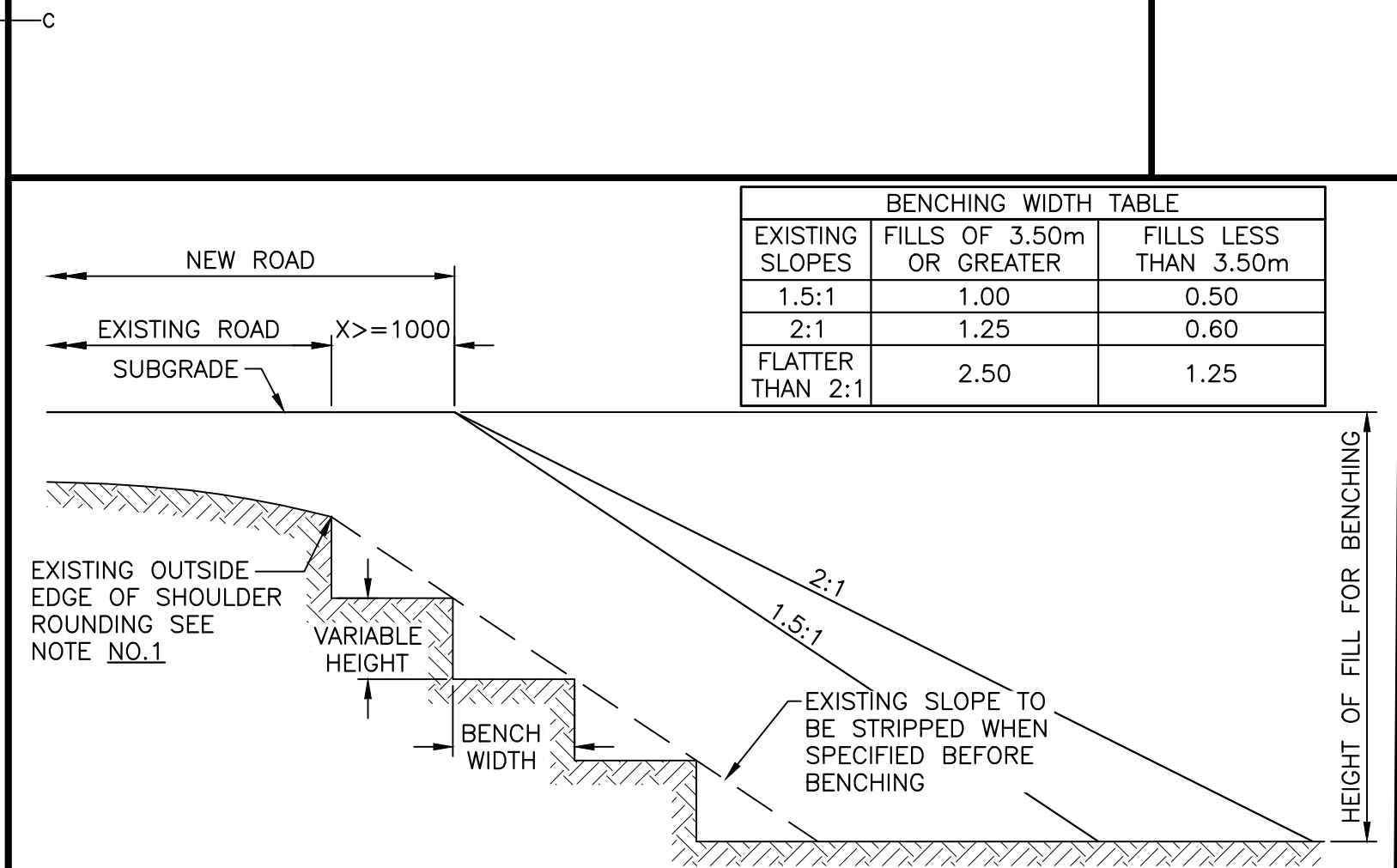


TYPICAL DETAIL — ACCESS ROAD / SOUTH SIDE UTILITY ACCESS



FOR REFERENCE ONLY

5
—

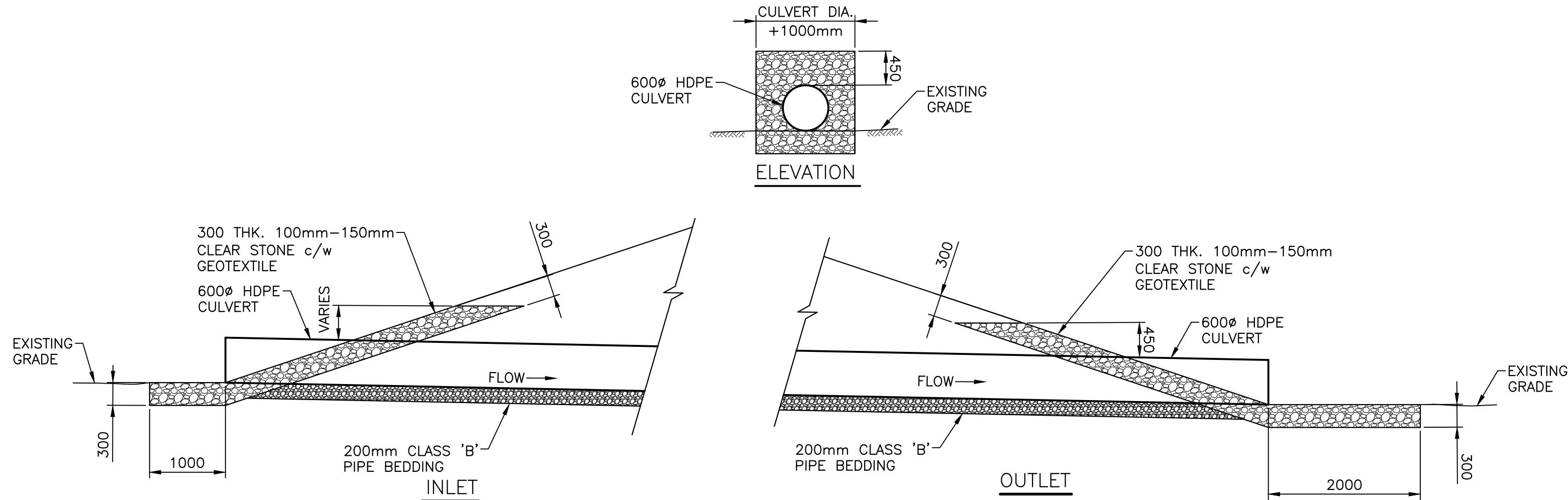


- NOTES:
1. WHEN THE SUBGRADE IS BELOW THE EXISTING OUTSIDE EDGE OF SHOULDER ROUNDING, BENCHING SHALL BE CARRIED OUT BELOW THE POINT WHERE THE SUBGRADE INTERSECTS THE EXISTING SLOPE.
 2. THIS STANDARD APPLIES TO WIDENING OF FILLS WHERE THE DISTANCE "X" IS 1.0m OR MORE AT NEW TOP OF SUBGRADE LEVEL.
 3. 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.

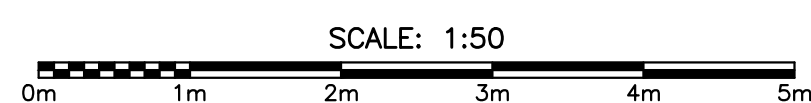
DETAIL — BENCHING OF EARTH SLOPES (FILL SITUATION)



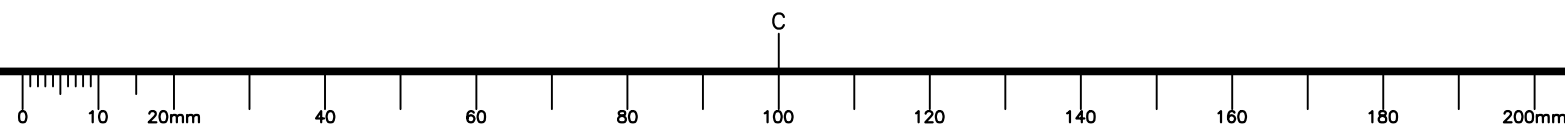
6
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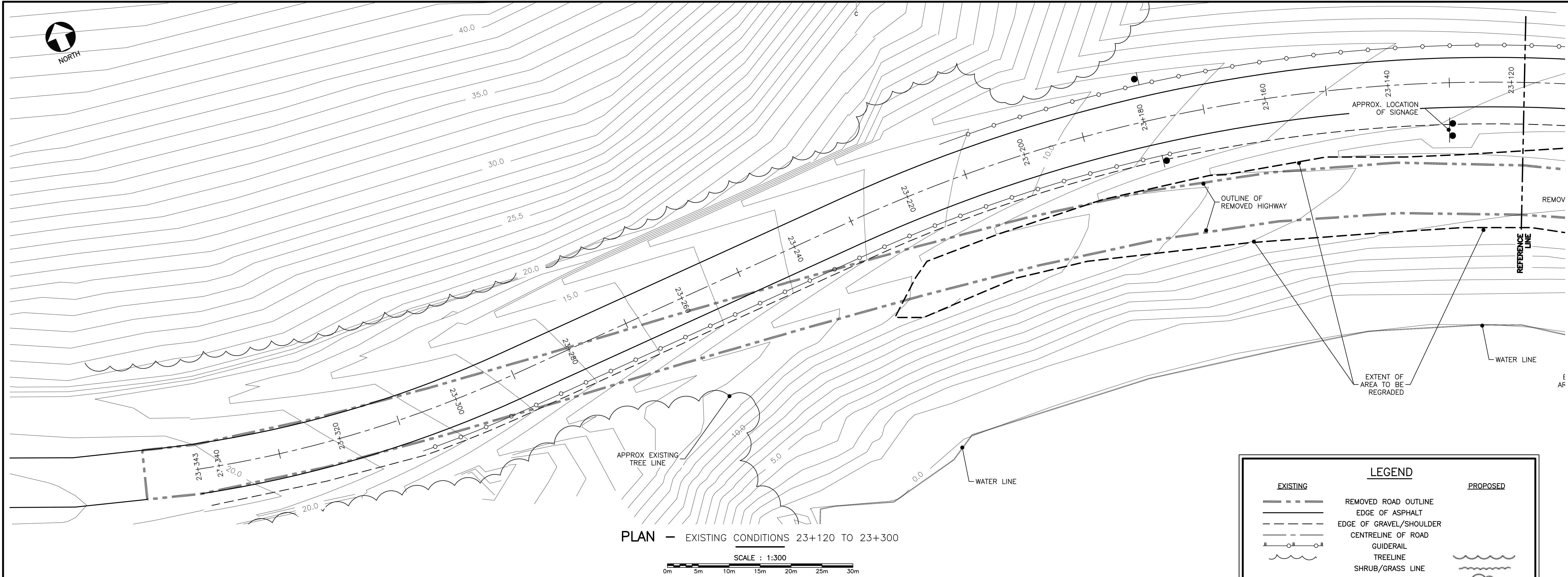


DETAIL — CULVERT RIP-RAP AND APRON DETAILS

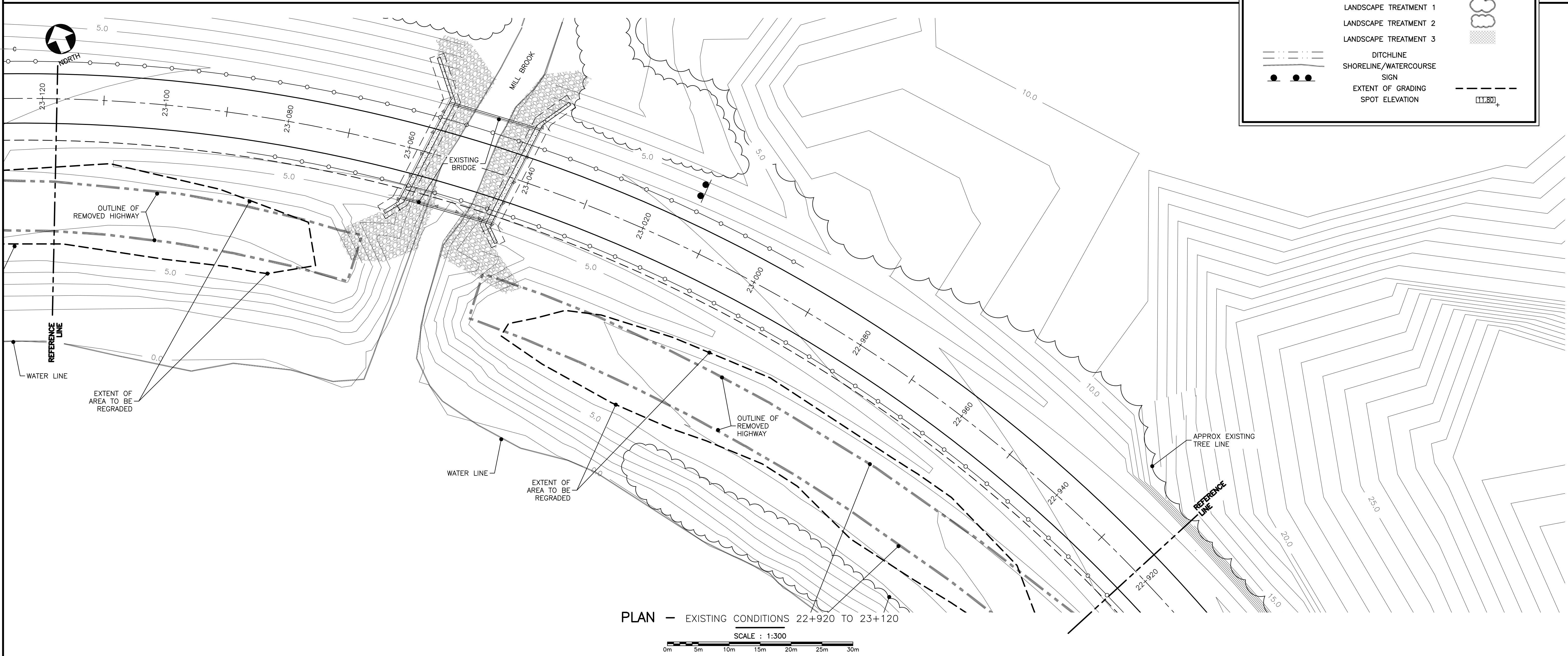


7
C2-C3

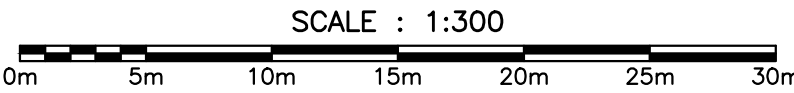




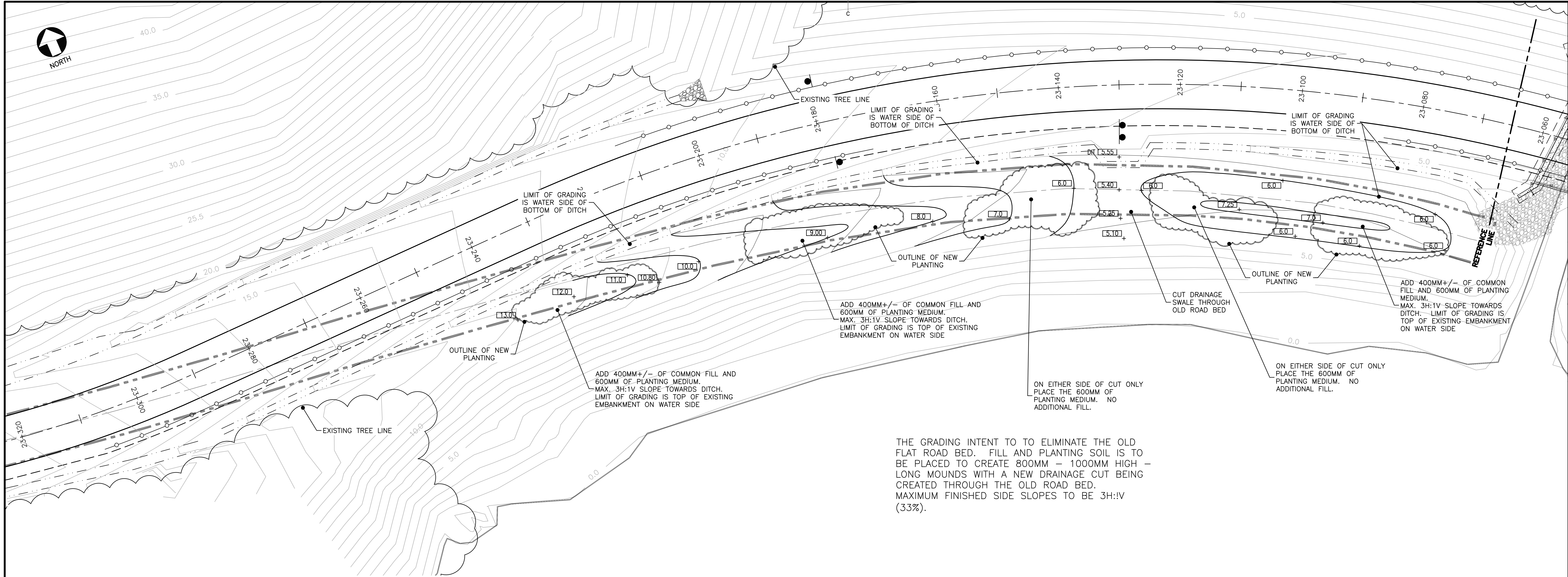
PLAN — EXISTING CONDITIONS 23+120 TO 23+300



PLAN — EXISTING CONDITIONS 22+920 TO 23+120



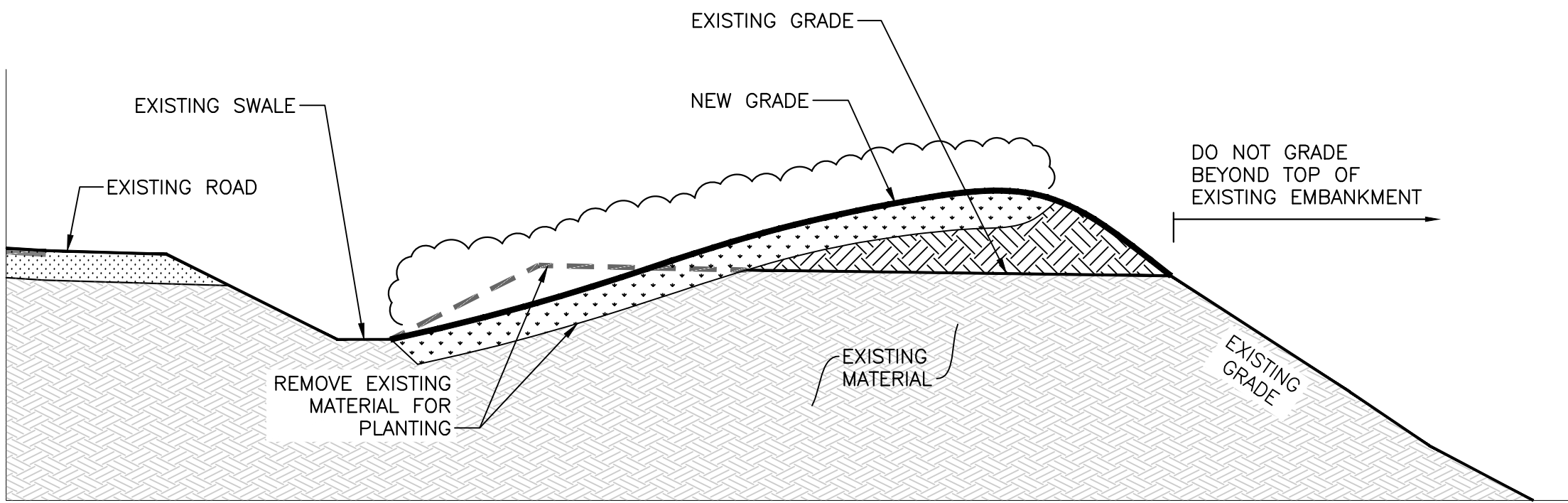
LEGEND	
EXISTING	PROPOSED
	REMOVED ROAD OUTLINE
	EDGE OF ASPHALT
	EDGE OF GRAVEL/SHOULDER
	CENTRELINE OF ROAD
	GUIDERAIL
	TREELINE
	SHRUB/GRASS LINE
	LANDSCAPE TREATMENT 1
	LANDSCAPE TREATMENT 2
	LANDSCAPE TREATMENT 3
	DITCHLINE
	SHORELINE/WATERCOURSE
	SIGN
	EXTENT OF GRADING
	SPOT ELEVATION



PLAN — GRADING 23+060 TO 23+320
SCALE : 1:300

LEGEND

EXISTING		PROPOSED
---	REMOVED ROAD OUTLINE	
---	EDGE OF ASPHALT	
---	EDGE OF GRAVEL/SHOULDER	
---	CENTRELINE OF ROAD	
---	GUIDERAIL	
---	TREELINE	
---	SHRUB/GRASS LINE	
---	LANDSCAPE TREATMENT 1	
---	LANDSCAPE TREATMENT 2	
---	LANDSCAPE TREATMENT 3	
---	DITCHLINE	
---	SHORELINE/WATERCOURSE	
---	SIGN	
---	EXTENT OF GRADING	
---	SPOT ELEVATION	



TYPICAL SECTION
SCALE: 1:100

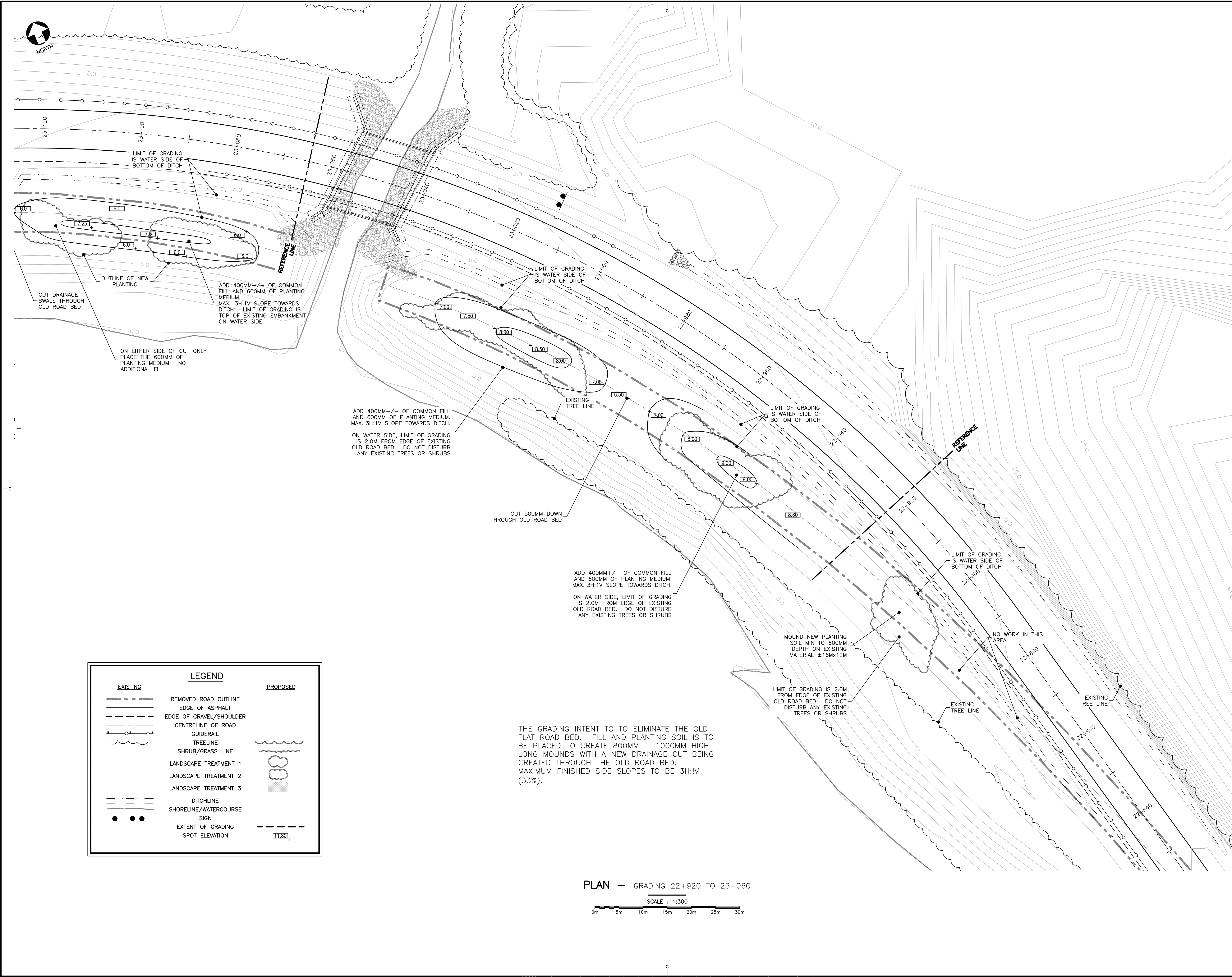
600MM PLANTING MEDIUM:
RELOCATED MATERIAL TO CREATE MOUND


Association des architectes-paysagistes des provinces atlantiques
Association of landscape architects
18-JUN 18
JAMES W. D. MCKEE

ISSUED FOR TENDER
JUN 18 2018
GROS MORNE NATIONAL PARK, NL
HWY 430
SHOAL COVE BROOK

GRADING PLAN
23+060 TO 23+300


designed JAMES MCKEE
date JUN 2018
drawn ANDI LO / JAMES MCKEE
date JUN 2018
approved
date
Tender
PCA Project Manager
project number 1813 / 1845
drawing no. L02A






Parcs
Canada

Parks
Canada



HARBORSIDE
Engineering Consultants

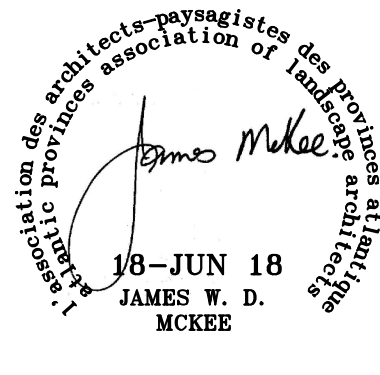


Vollick McKee Petersmann
ASSOCIATES LIMITED

LANDSCAPE ARCHITECTURE
SITE PLANNING PROJECT MANAGEMENT

3008 Oxford Street
Suite 203
Halifax, Nova Scotia
Canada B3L 2W5

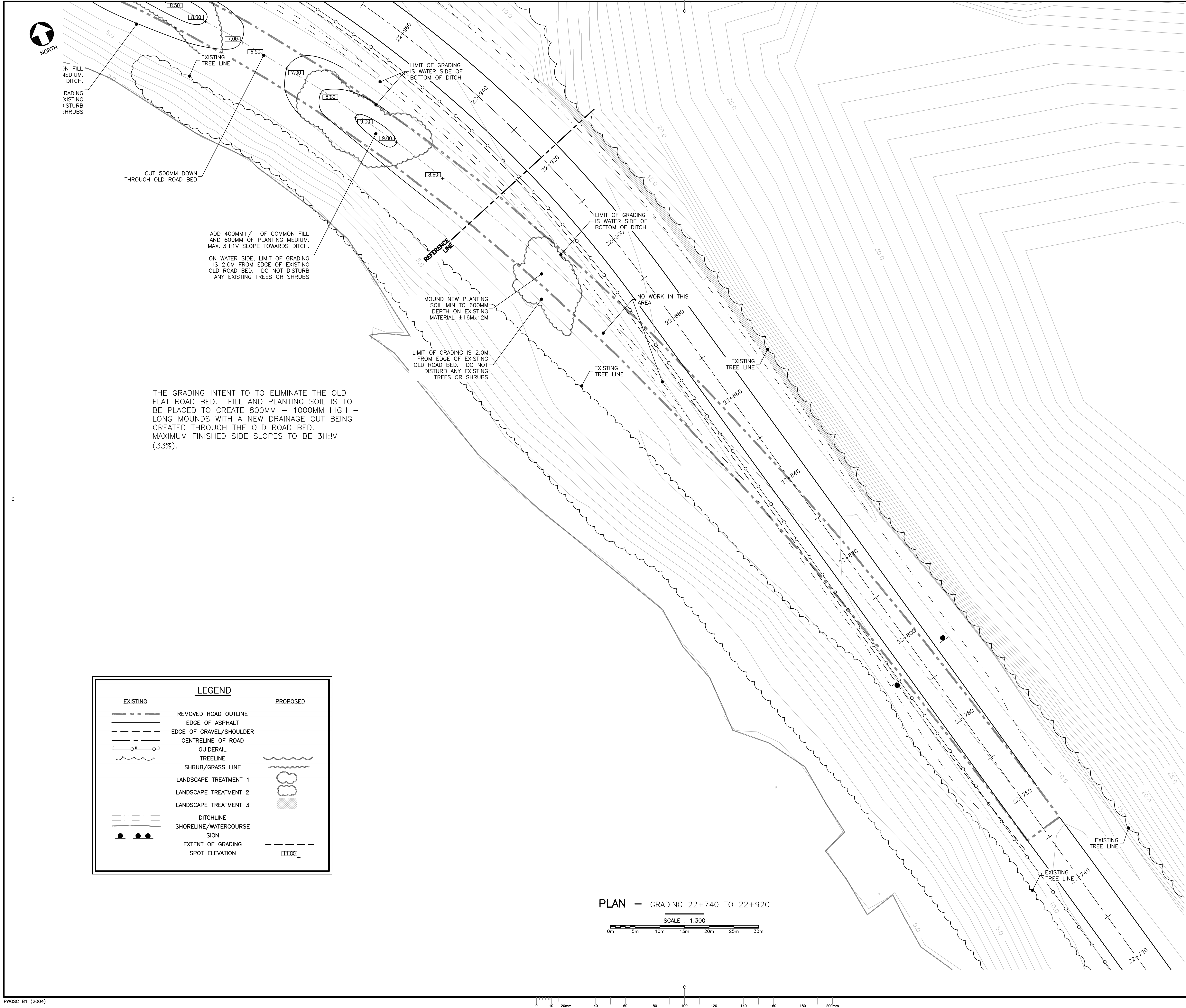
Tel: 902 422 6514
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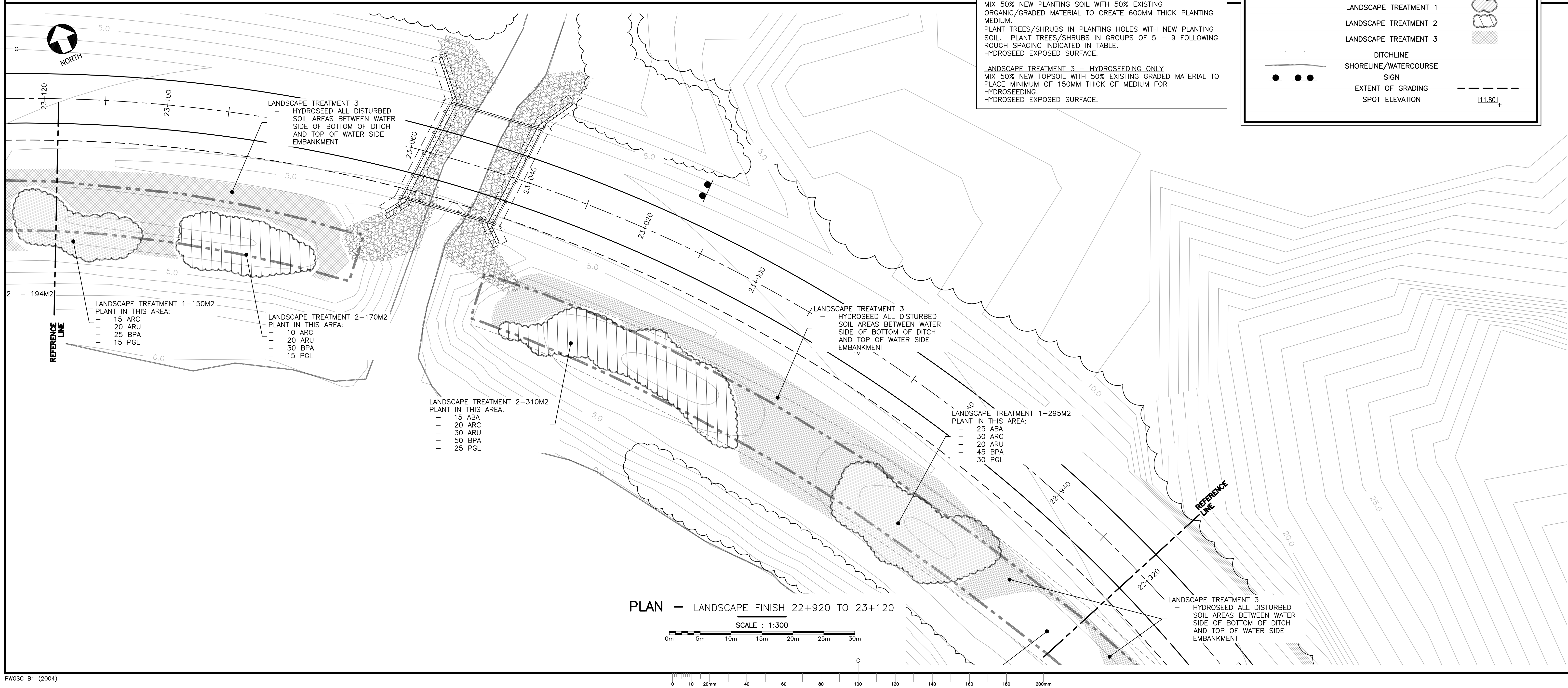
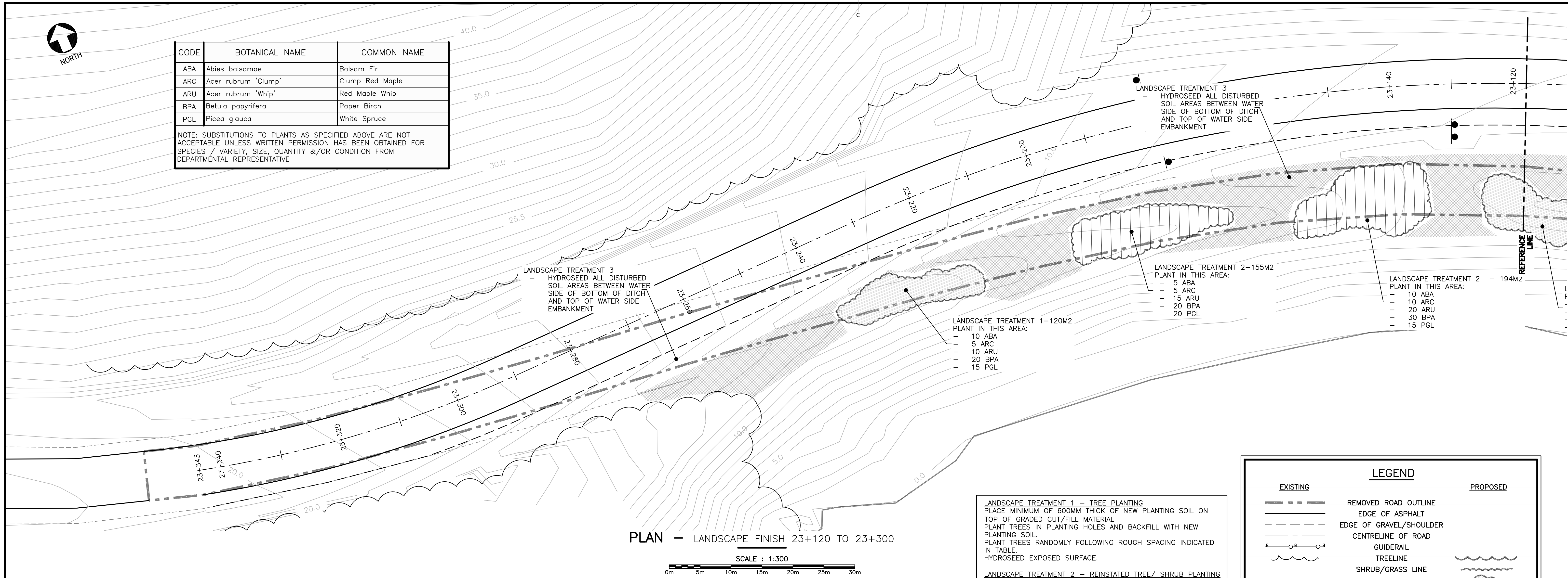


18-JUN 18
JAMES W. D.
MCKEE

—	ISSUED FOR TENDER	JUN 18 2018
revisions		date
project	project	
GROS MORNE NATIONAL PARK, NL HWY 430 SHOAL COVE BROOK		
drawing	dessin	
GRADING PLAN 22+920 TO 23+060		
designed	JAMES MCKEE	conçu
date	JUN 2018	
drawn	ANDI LO / JAMES MCKEE	dessiné
date	JUN 2018	
approved		approuvé
date		
Tender	Soumission	
PCA Project Manager	Administrateur de projets PCA	
project number	no. du projet	
1813 / 1845		
drawing no.	no. du dessin	
L02B		

E-DRM/GDD-E:







LANDSCAPE TREATMENT 1-295M2
PLANT IN THIS AREA:
- 25 ABA
- 30 ARC
- 20 ARU
- 45 BPA
- 30 PGL

LANDSCAPE TREATMENT 3
HYDROSEED ALL DISTURBED
SOIL AREAS BETWEEN WATER
SIDE OF BOTTOM OF DITCH
AND TOP OF WATER SIDE
EMBANKMENT

LANDSCAPE TREATMENT 2-165M2
PLANT IN THIS AREA:
- 10 ABA
- 10 ARC
- 15 ARU
- 25 BPA
- 15 PGL

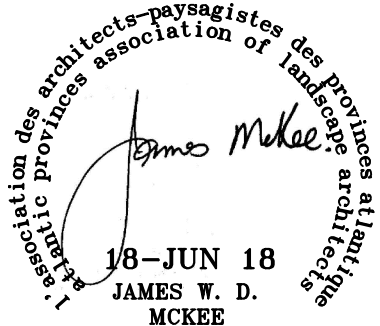
NO GRADING NOR
HYDROSEEDING IN
THIS AREA

NO WORK IN
THIS AREA

FULL PLANTING SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND.	SPACING	STAKING	REMARKS
ABA	75	Abies balsamiae	Balsam Fir	80cm	CG#3	1000 o.c.	-	Spaced randomly
ARC	105	Acer rubrum 'Clump'	Clump Red Maple	250cm	B&B	Random	-	Spaced randomly
ARU	150	Acer rubrum 'Whip'	Red Maple Whip	150cm	CG#5	1000 o.c.	-	Spaces randomly
BPA	245	Betula papyrifera	Paper Birch	150cm	CG#3	1000 o.c.	-	Spaced randomly
PGL	150	Picea glauca	White Spruce	80cm	CG#3	1000 o.c.	-	Spaced randomly

NOTE: SUBSTITUTIONS TO PLANTS AS SPECIFIED ABOVE ARE NOT ACCEPTABLE UNLESS WRITTEN PERMISSION HAS BEEN OBTAINED FOR SPECIES / VARIETY, SIZE, QUANTITY &/OR CONDITION FROM DEPARTMENTAL REPRESENTATIVE



ISSUED FOR TENDER JUN 18 2018

GROS MORNE
NATIONAL PARK, NL
HWY 430
SHOAL COVE BROOK

LANDSCAPE FINISH
TREATMENT PLAN
22+740 TO 22+920

designed JAMES MCKEE conçu
date JUN 2018
drawn ANDI LO / JAMES MCKEE dessiné
date JUN 2018

approved approuvé
date
Tender Soumission

PCA Project Manager Administrateur de projets PCA

project number 1813 / 1845 no. du projet

drawing no. L03B no. du dessin

LEGEND		
EXISTING		PROPOSED
---	REMOVED ROAD OUTLINE	
---	EDGE OF ASPHALT	
---	EDGE OF GRAVEL/SHOULDER	
---	CENTRELINE OF ROAD	
---	GUIDERAIL	
---	TREELINE	
---	SHRUB/GRASS LINE	
---	LANDSCAPE TREATMENT 1	
---	LANDSCAPE TREATMENT 2	
---	LANDSCAPE TREATMENT 3	
---	DITCHLINE	
---	SHORELINE/WATERCOURSE	
---	SIGN	
---	EXTENT OF GRADING	
---	SPOT ELEVATION	

LANDSCAPE TREATMENT 1 - TREE PLANTING
PLACE MINIMUM OF 600MM THICK OF NEW PLANTING SOIL ON TOP OF GRADED CUT/FILL MATERIAL.
PLANT TREES IN PLANTING HOLES AND BACKFILL WITH NEW PLANTING SOIL.
PLANT TREES RANDOMLY FOLLOWING ROUGH SPACING INDICATED IN TABLE.
HYDROSEED EXPOSED SURFACE.

LANDSCAPE TREATMENT 2 - REINSTATED TREE/ SHRUB PLANTING
MIX 50% NEW PLANTING SOIL WITH 50% EXISTING ORGANIC/GRADED MATERIAL TO CREATE 600MM THICK PLANTING MEDIUM.
PLANT TREES/SHRUBS IN PLANTING HOLES WITH NEW PLANTING SOIL. PLANT TREES/SHRUBS IN GROUPS OF 5 - 9 FOLLOWING ROUGH SPACING INDICATED IN TABLE.
HYDROSEED EXPOSED SURFACE.

LANDSCAPE TREATMENT 3 - HYDROSEEDING ONLY
MIX 50% NEW TOPSOIL WITH 50% EXISTING GRADED MATERIAL TO PLACE MINIMUM OF 150MM THICK OF MEDIUM FOR HYDROSEEDING.
HYDROSEED EXPOSED SURFACE.

PLAN - LANDSCAPE FINISH 22+740 TO 22+920

SCALE : 1:300
0m 5m 10m 15m 20m 25m 30m