

**Parks Parcs
Canada Canada**

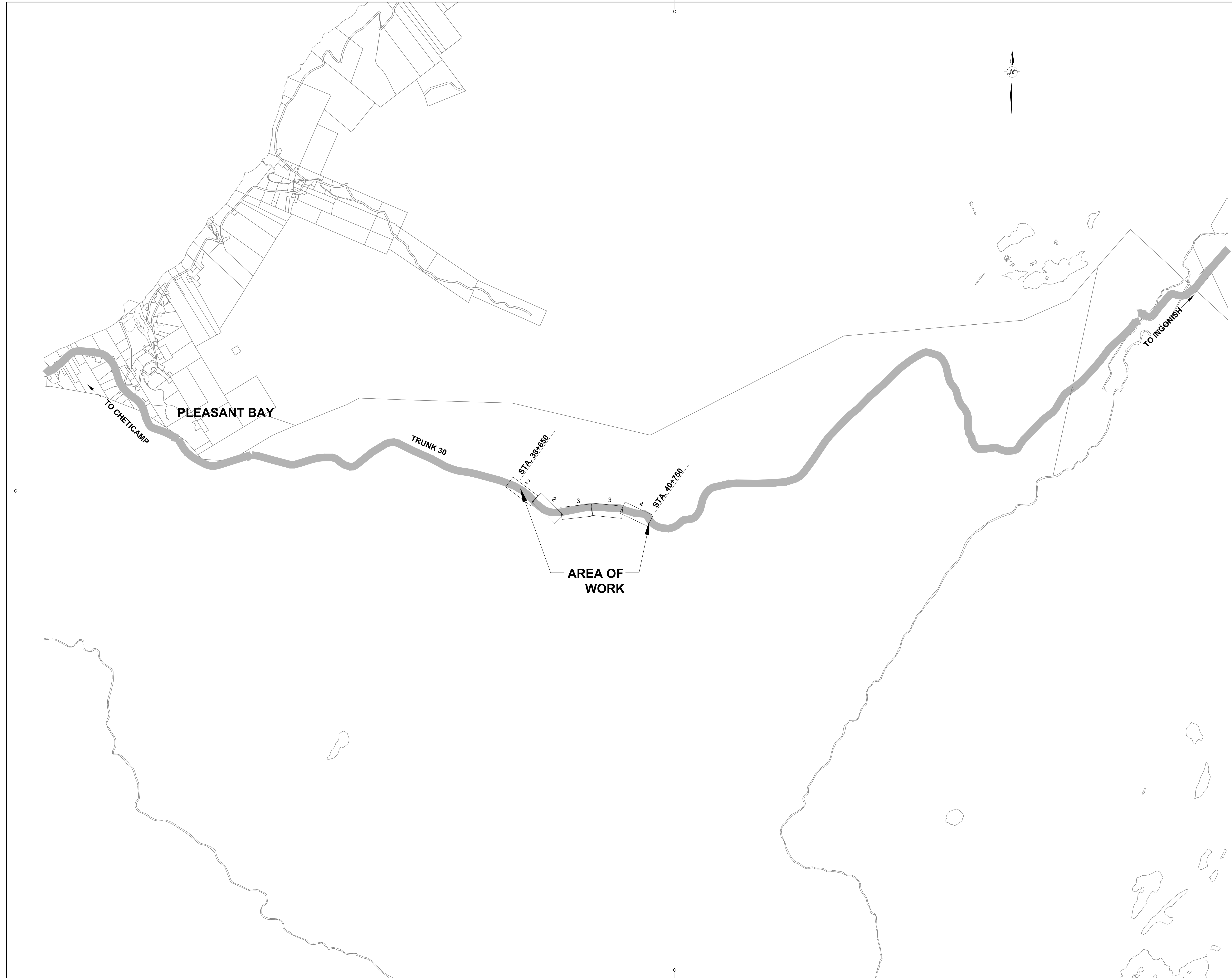
**CAPE BRETON HIGHLANDS
NATIONAL PARK
CABOT TRAIL
NORTH MOUNTAIN REPAIRS**

PROJECT NO. 2245

Sheet List Table

Sheet Number	Sheet Title
COVER	COVER
C1	KEY PLAN
C2	EXISTING CONDITIONS PLAN, STA. 38+643 TO 39+486
C3	EXISTING CONDITIONS PLAN, STA. 39+486 TO 40+330
C4	EXISTING CONDITIONS PLAN, STA. 40+330 TO 40+750
C5	PLAN, STA. 38+643 TO 39+486
C6	PLAN, STA. 39+486 TO 40+330
C7	PLAN, STA. 40+330 TO 40+750
C8	TYPICAL SECTIONS AND DETAILS
C9	CULVERT DETAILS
C10	CULVERT CROSS SECTIONS

Canada 



LEGEND EXISTING

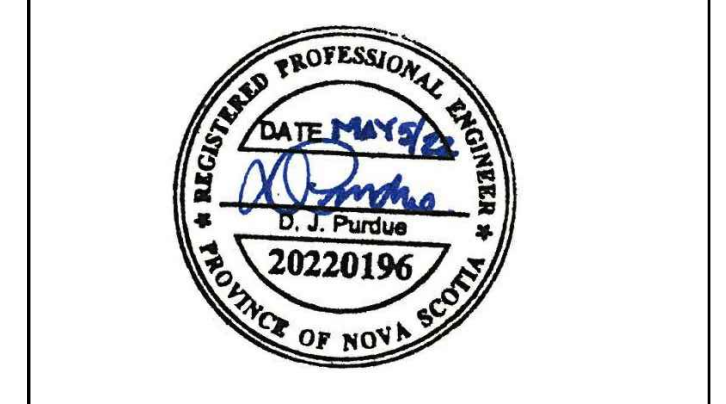
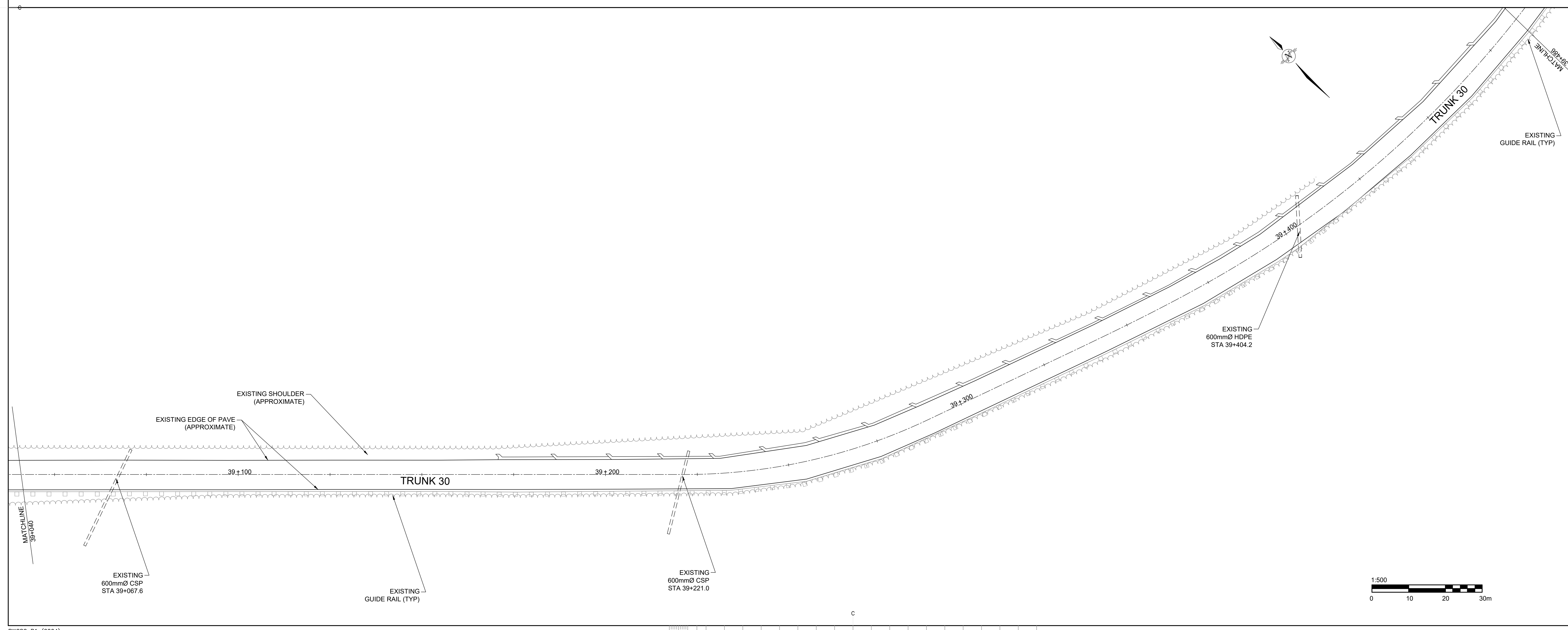
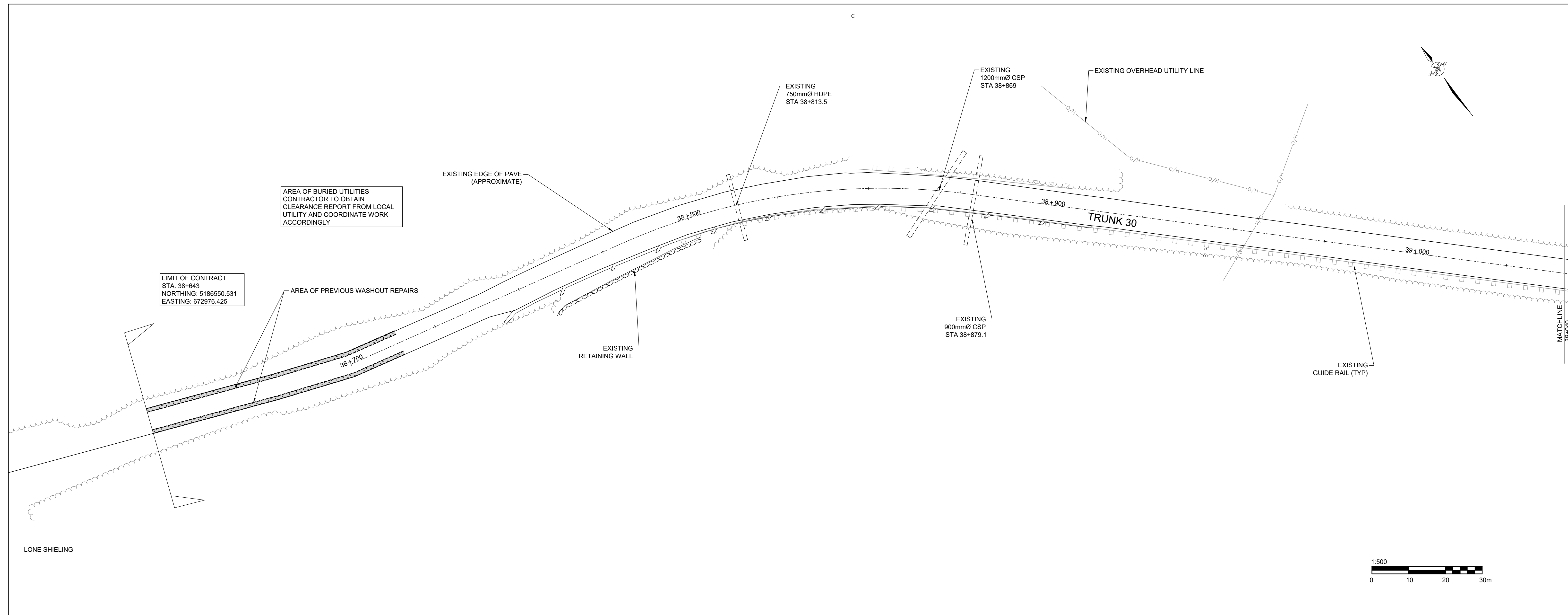
- EXISTING RETAINING WALL
- EXISTING TREE LINE
- EXISTING GUIDE RAIL
- EXISTING OVERHEAD UTILITY LINE
- EXISTING CULVERT
- EXISTING ASPHALT GUTTER
- AREA OF DAMAGE
- AREA OF DAMAGE WITH TEMPORARY EMERGENCY REPAIRS
- EXISTING DITCH CENTER LINE

LEGEND NEW

- NEW GUIDE RAIL
- NEW CULVERT
- NEW AREA OF REPAIR
- NEW ASPHALT GUTTER

- GENERAL NOTES**
1. All location, dimensions, and quantities are approximate.
 2. Acquire all necessary permits prior to undertaking work.
 3. Locate and protect all underground and aboveground utilities.
 4. Implement an approved Traffic Control Plan prior to undertaking the work.
 5. Work area is designated as the Cabot Trail from Lone Shaving to Sta. 40+750.
 6. All dimensions are expressed in millimetres.
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 8. Coordinates are referenced to the NAD83 (CSRS 1997) UTM ZONE 20, CGVD 28 Coordinate System.
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1	ISSUED FOR TENDER	MAY 5 2022
revisions		date
project	CAPE BRETON HIGHLANDS NATIONAL PARK, CABOT TRAIL NORTH MOUNTAIN REPAIRS	
drawing	KEY PLAN	
designed	DJP	conçu
date	MAY 2022	
drawn	AJM	dessiné
date	MAY 2022	
approved		approuvé
date		
Tender	Soumission	
PWSC Project Manager	Administrateur de projets TPSGC	
project number	2245	
drawing no.	100003.005	no. du dessin C01



LEGEND EXISTING	
	EXISTING RETAINING WALL
	EXISTING TREE LINE
	EXISTING GUIDE RAIL
	EXISTING OVERHEAD UTILITY LINE
	EXISTING CULVERT
	EXISTING ASPHALT GUTTER
	AREA OF DAMAGE
	AREA OF DAMAGE WITH TEMPORARY EMERGENCY REPAIRS
	EXISTING DITCH CENTER LINE

LEGEND NEW	
	NEW GUIDE RAIL
	NEW CULVERT
	NEW AREA OF REPAIR
	NEW ASPHALT GUTTER

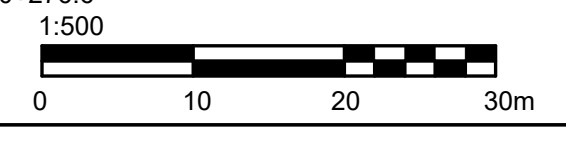
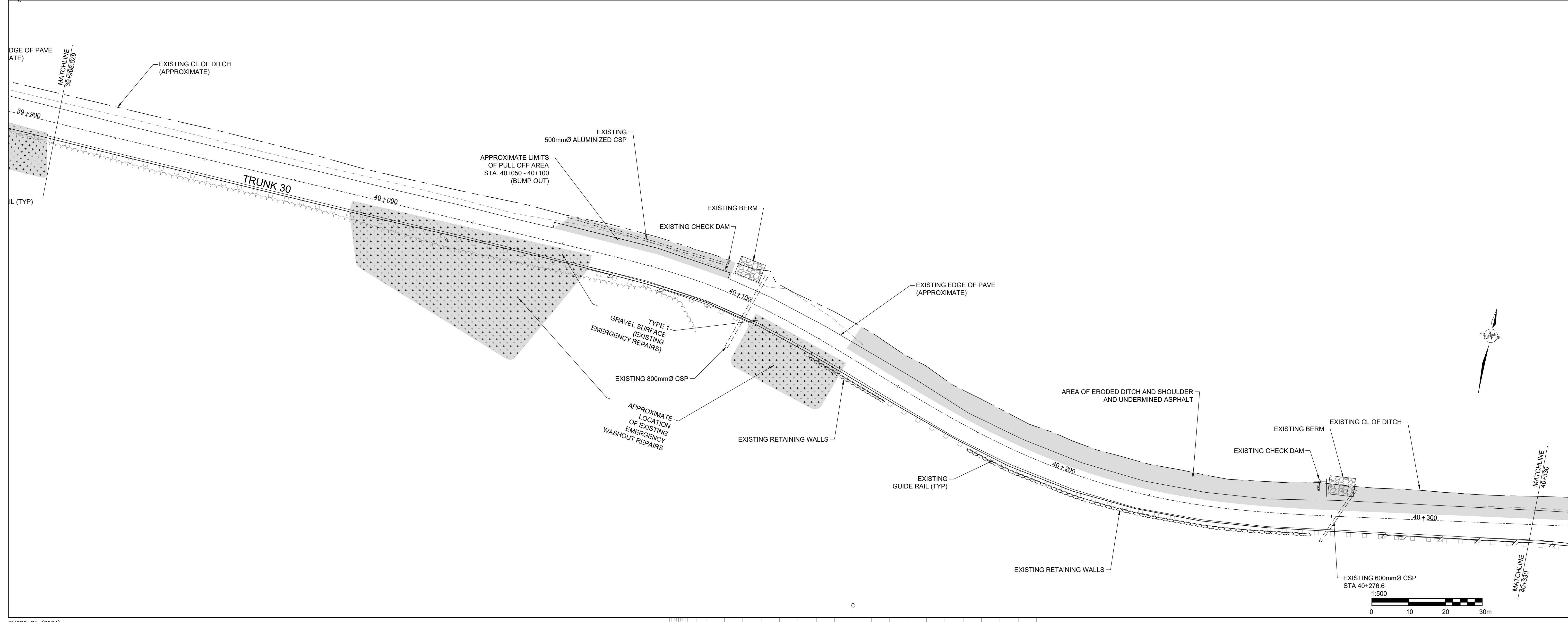
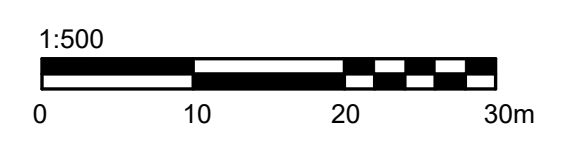
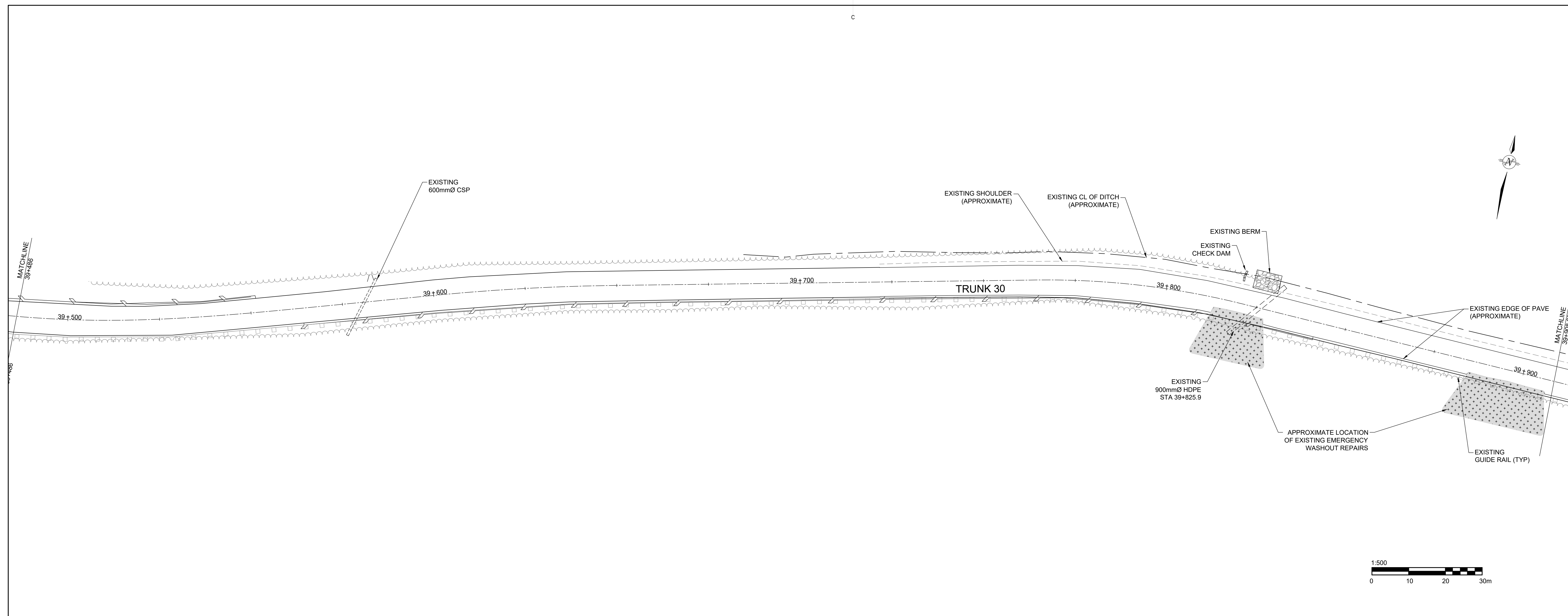
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revisions		date
project	CAPE BRETON HIGHLANDS NATIONAL PARK, CABOT TRAIL NORTH MOUNTAIN REPAIRS	
drawing	EXISTING CONDITIONS STA. 38+643 - 39+486	
designed	DJP	conçu
date	MAY 2022	
drawn	AJM	dessiné
date	MAY 2022	
approved		approuvé
date		
Tender	Soumission	
PWSC Project Manager	Administrateur de projets TPSCG	
project number	2245	no. du projet
drawing no.	100003.005	no. du dessin
	C02	

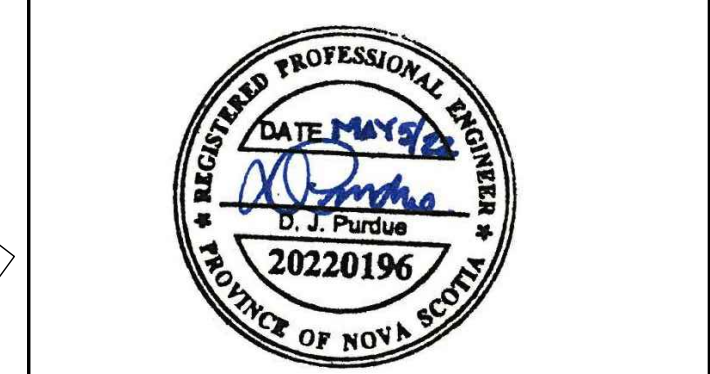
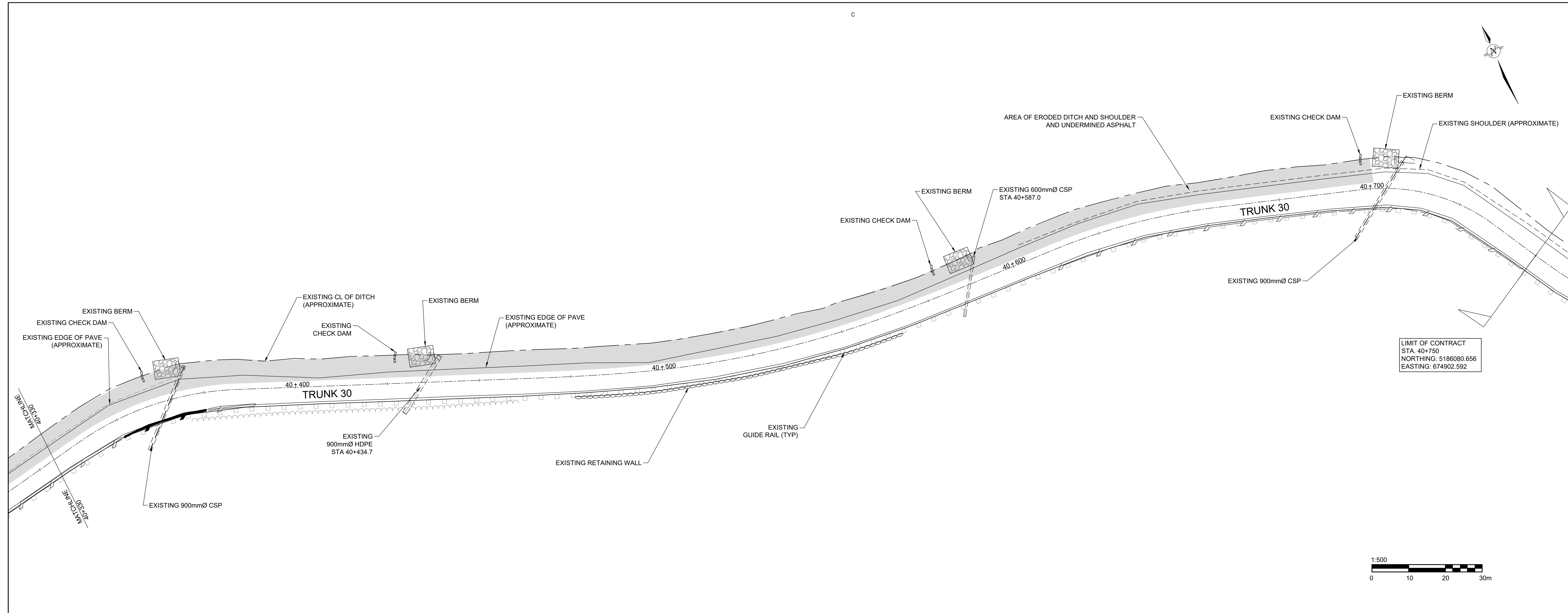


LEGEND EXISTING	
	EXISTING RETAINING WALL
	EXISTING TREE LINE
	EXISTING GUIDE RAIL
	EXISTING OVERHEAD UTILITY LINE
	EXISTING CULVERT
	EXISTING ASPHALT GUTTER
	AREA OF DAMAGE
	AREA OF DAMAGE WITH TEMPORARY EMERGENCY REPAIRS
	EXISTING DITCH CENTER LINE
LEGEND NEW	
	NEW GUIDE RAIL
	NEW CULVERT
	NEW AREA OF REPAIR
	NEW ASPHALT GUTTER

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drawing	dessin	
EXISTING CONDITIONS STA. 39+486 - 40+330		
designed	DJP	conçu
date	MAY 2022	
drawn	AJM	dessiné
date	MAY 2022	
approved		approuvé
date		
Tender	Soumission	
PWOSC Project Manager	Administrateur de projets TPSGC	
project number	2245	no. du projet
drawing no.	100003.005	no. du dessin
	C03	



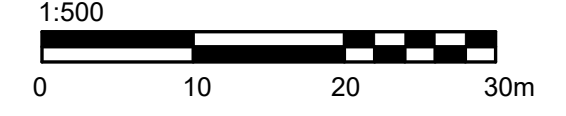
LEGEND EXISTING

- Existing Retaining Wall
- Existing Tree Line
- Existing Guide Rail
- Existing Overhead Utility Line
- Existing Culvert
- Existing Asphalt Gutter
- Area of Damage
- Area of Damage with Temporary Emergency Repairs
- Existing Ditch Center Line

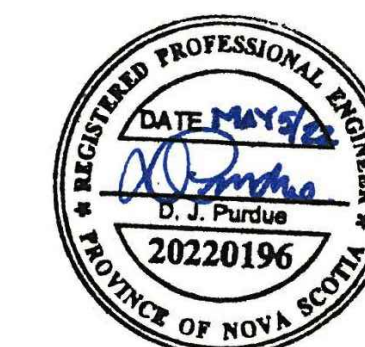
LEGEND NEW

- New Guide Rail
- New Culvert
- New Area of Repair
- New Asphalt Gutter

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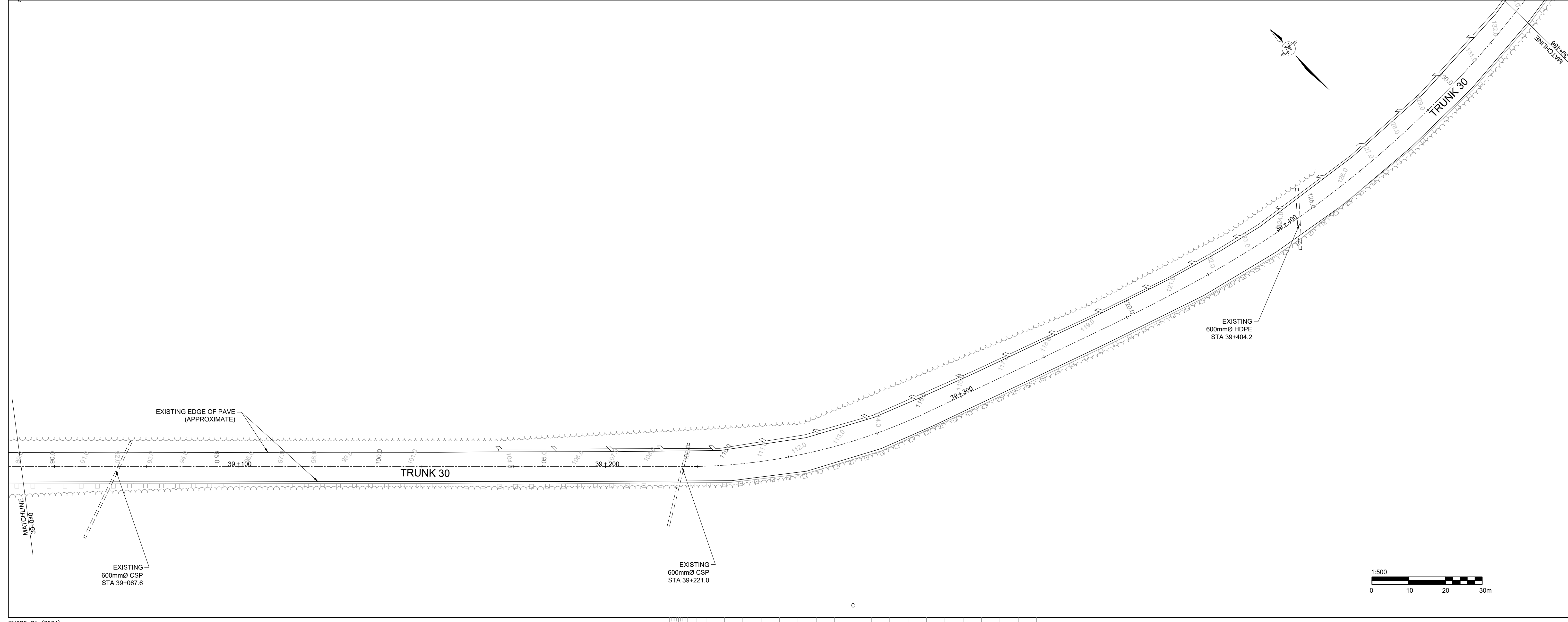
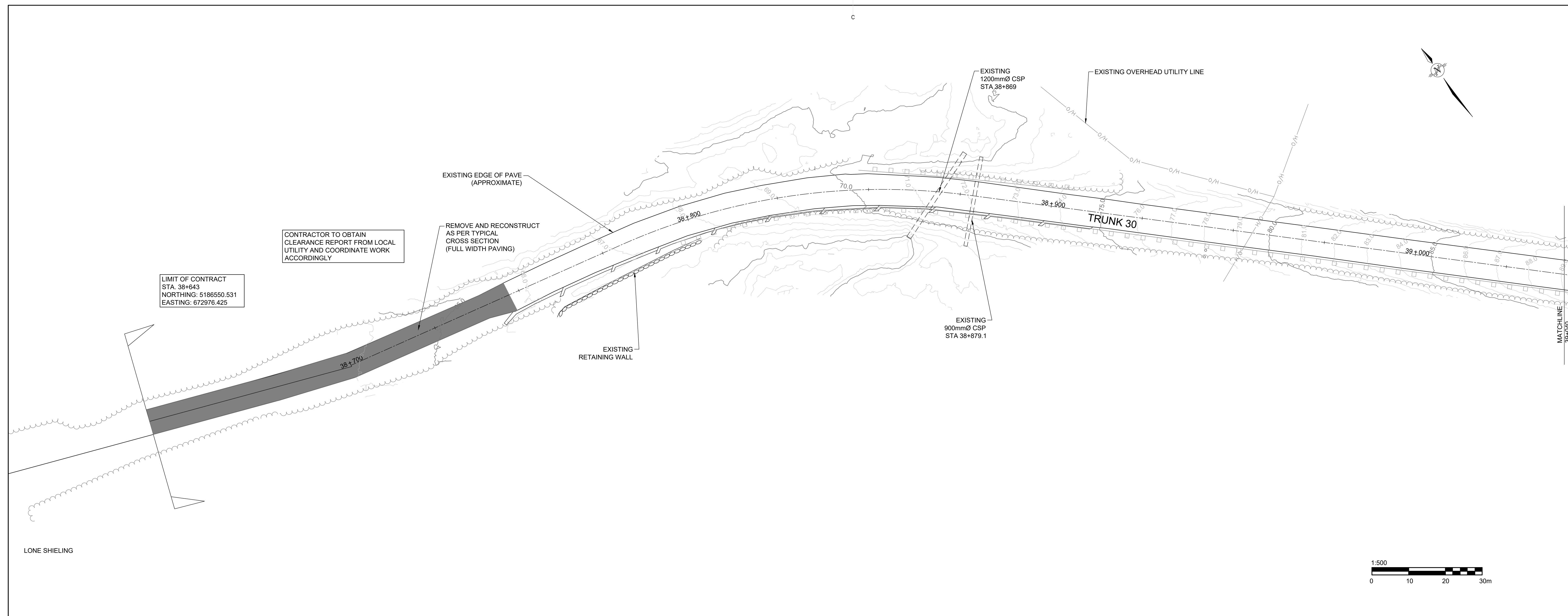


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drawing	desin	
EXISTING CONDITIONS STA. 40+330 - 40+750		
designed	DJP	conçu
date	MAY 2022	
drawn	AJM	dessiné
date	MAY 2022	
approved		approuvé
date		
Tender	Soumission	
IPWSC Project Manager	Administrateur de projets IPWSC	
project number	2245	no. du projet
drawing no.	100003.005	no. du dessin
		C04

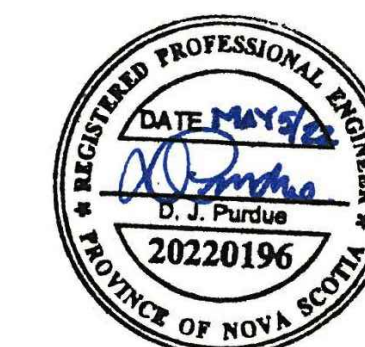


LEGEND EXISTING	
	EXISTING RETAINING WALL
	EXISTING TREE LINE
	EXISTING GUIDE RAIL
	EXISTING OVERHEAD UTILITY LINE
	EXISTING CULVERT
	EXISTING ASPHALT GUTTER
	AREA OF DAMAGE
	AREA OF DAMAGE WITH TEMPORARY EMERGENCY REPAIRS
	EXISTING DITCH CENTER LINE
LEGEND NEW	
	NEW GUIDE RAIL
	NEW CULVERT
	NEW AREA OF REPAIR
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PLAN STA. 38+643 - 39+486		
designed	DJP	conçu
date	MAY 2022	
drawn	AJM	dessiné
date	MAY 2022	
approved		approuvé
date		
Tender	Soumission	
PWOSC Project Manager	Administrateur de projets TPSCG	
project number	2245	no. du projet
drawing no.	100003.005	no. du dessin
	C05	



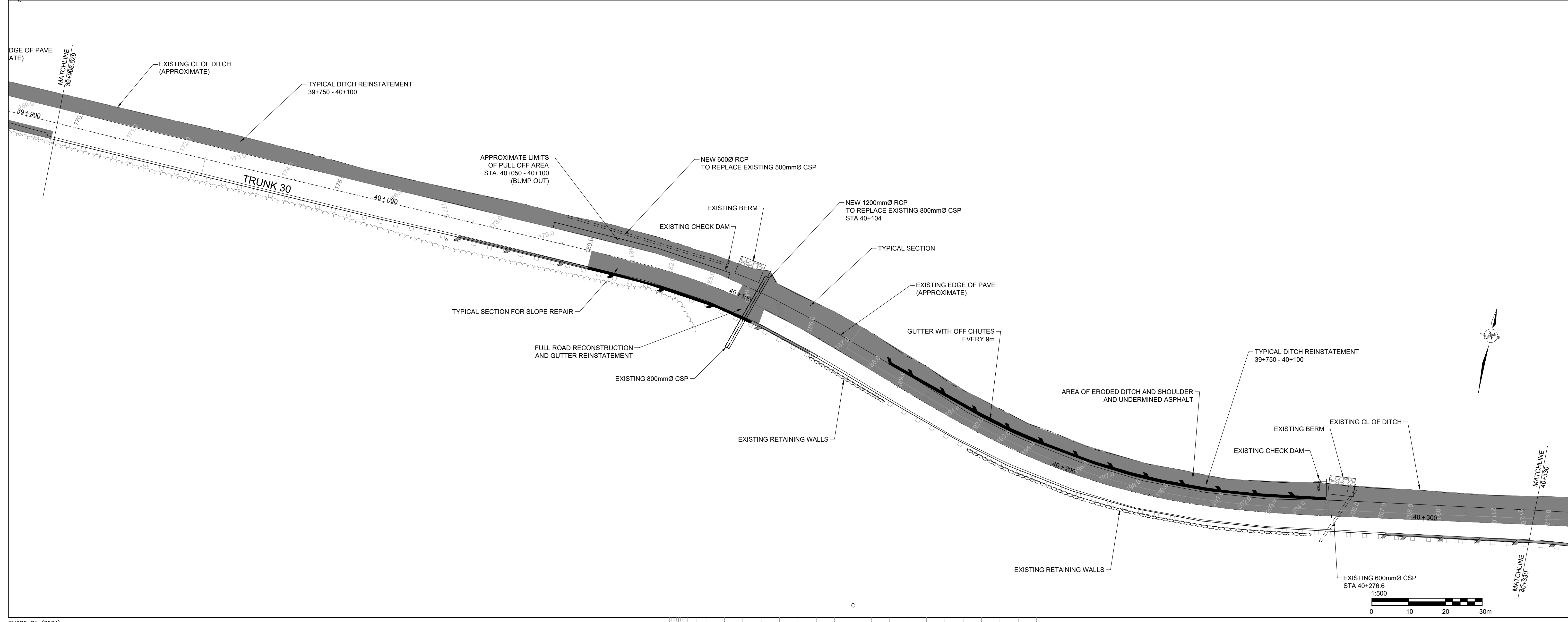
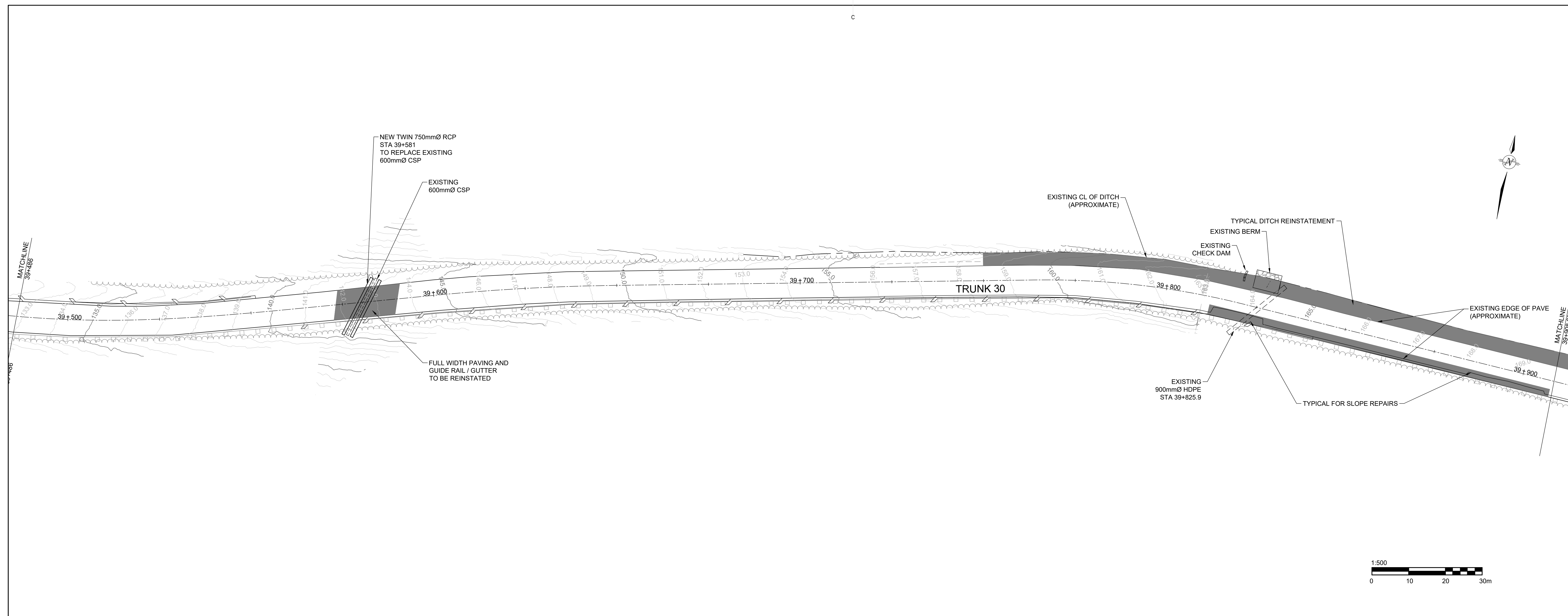
LEGEND EXISTING

- EXISTING RETAINING WALL
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- AREA OF DAMAGE
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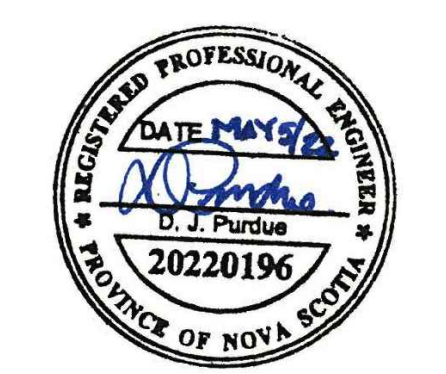
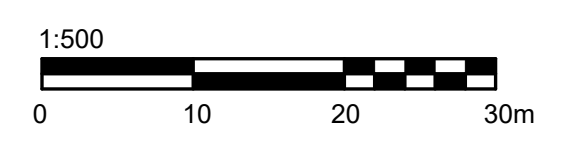
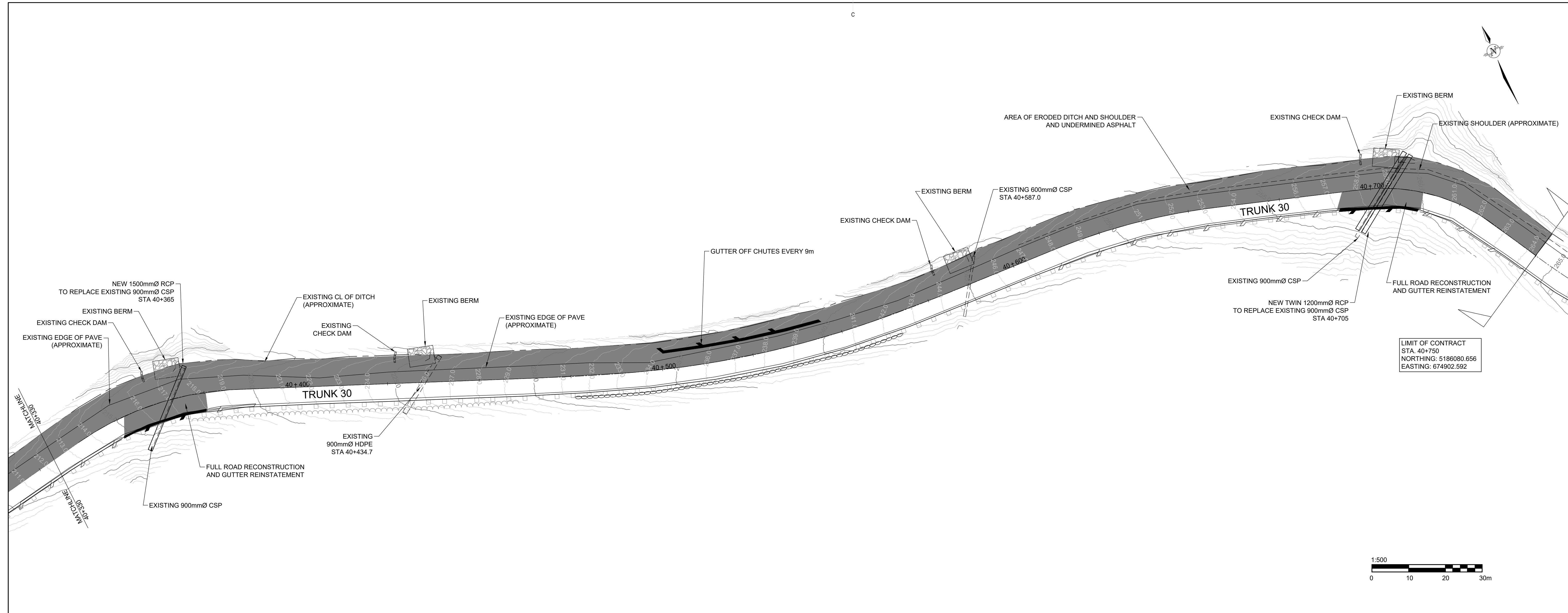
LEGEND NEW

- NEW GUIDE RAIL
- NEW CULVERT
- NEW AREA OF REPAIR
- NEW ASPHALT GUTTER

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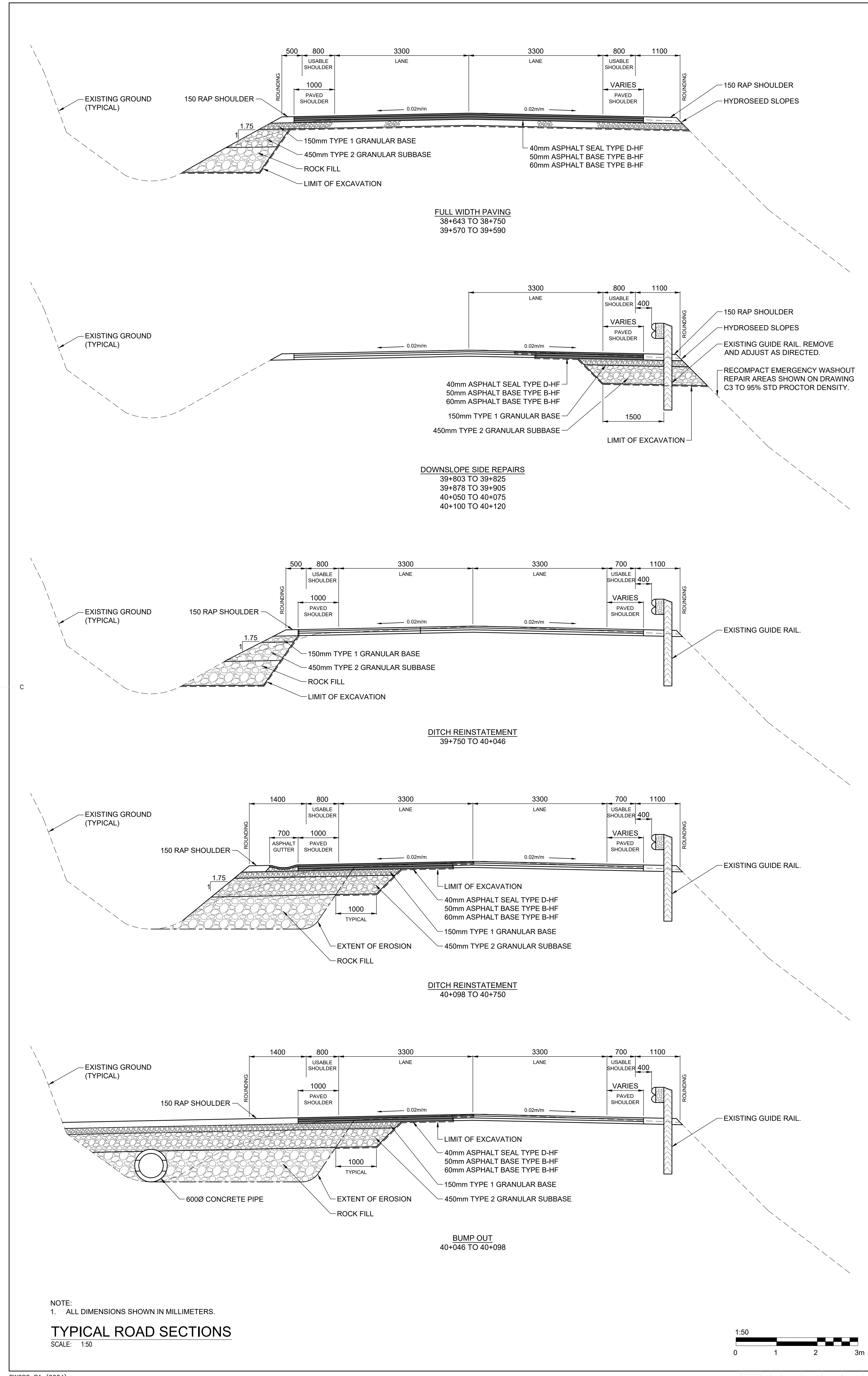
1	ISSUED FOR TENDER	MAY 5 2022
revisions		date
project	CAPE BRETON HIGHLANDS NATIONAL PARK, CABOT TRAIL NORTH MOUNTAIN REPAIRS	
drawing	dessin	
PLAN STA. 39+486 - 40+330		
designed	DJP	conçu
date	MAY 2022	
drawn	AJM	dessiné
date	MAY 2022	
approved		approuvé
date		
Tender	Soumission	
PWSSC Project Manager	Administrateur de projets TPSGC	
project number	2245	no. du projet
drawing no.	100003.005	no. du dessin
	C06	



- LEGEND EXISTING**
- EXISTING RETAINING WALL
 - EXISTING TREE LINE
 - EXISTING GUIDE RAIL
 - EXISTING OVERHEAD UTILITY LINE
 - EXISTING CULVERT
 - EXISTING ASPHALT GUTTER
 - AREA OF DAMAGE
 - AREA OF DAMAGE WITH TEMPORARY EMERGENCY REPAIRS
 - EXISTING DITCH CENTER LINE
- LEGEND NEW**
- NEW GUIDE RAIL
 - NEW CULVERT
 - NEW AREA OF REPAIR
 - NEW ASPHALT GUTTER

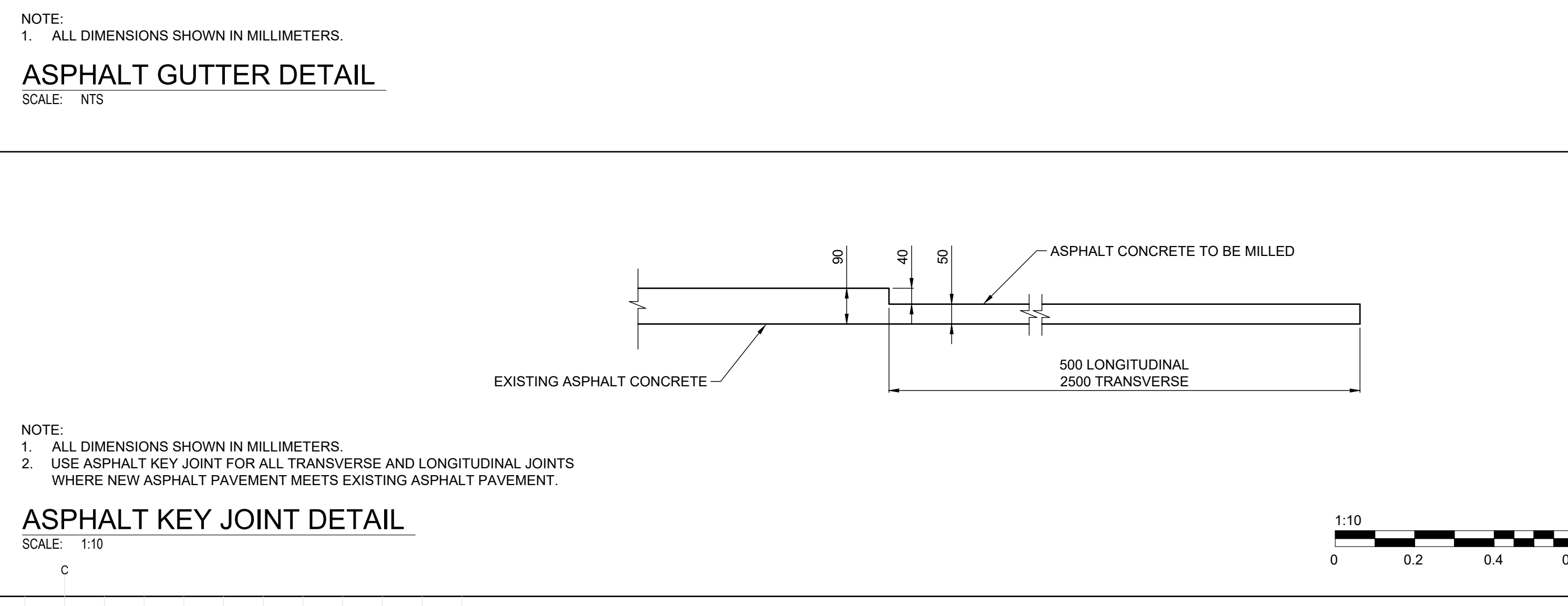
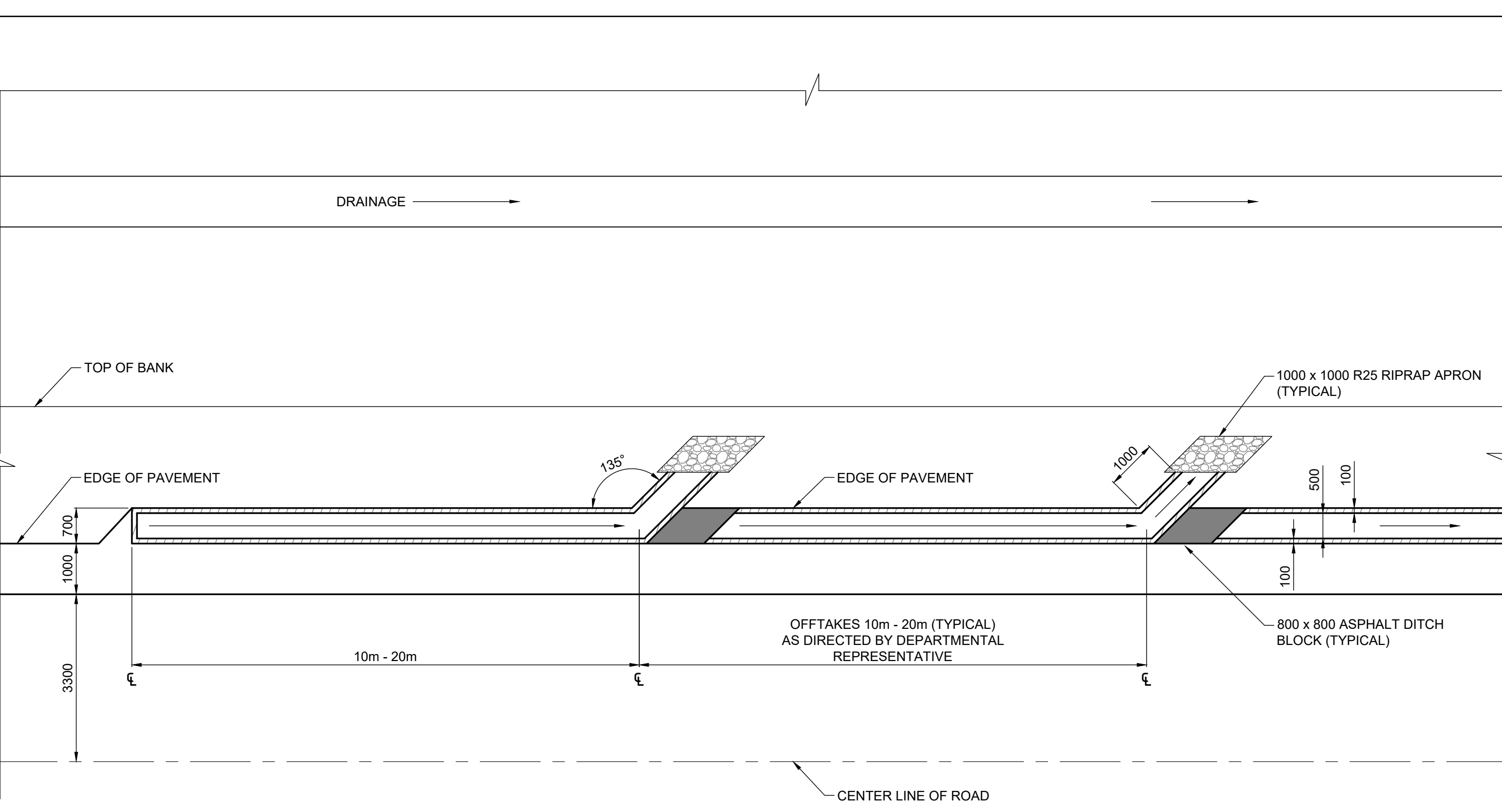
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drawing	dessin	
	PLAN STA. 40+330 - 40+750	
designed	DJP	conçu
date	MAY 2022	
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date		
Tender	Soumission	
PWGC Project Manager	Administrateur de projets TPSGC	
project number	2245	no. du projet
drawing no.	100003.005	no. du dessin
		C07



LONGITUDINAL MARKINGS SCHEDULE

	NAME OF LINE	DIMENSIONS (mm)	USE
LONGITUDINAL	SOLID		EDGE LINES (WHITE OR YELLOW), DIRECTIONAL DIVIDING LINES (YELLOW), LANE LINES PROHIBITING LANE CHANGES (WHITE)
	BROKEN		DIRECTIONAL DIVIDING LINES (YELLOW) LANE LINES (WHITE)
	SIMULTANEOUS SOLID AND BROKEN		DIRECTIONAL DIVIDING LINES (YELLOW) TWO-WAY LEFT TURN LANES (YELLOW) LANE LINES WHERE LANE CHANGES FROM ONE SIDE ARE PROHIBITED (WHITE)
	DOUBLE SOLID		DIRECTIONAL DIVIDING LINES (YELLOW)
	DASHED 3.0m		CONTINUITY LINES IN MERGING AND DIVERGING AREAS (WHITE) LANE LINES FOR LEFT TURN AND RIGHT TURN BAYS AND TAPERS (WHITE)
TRANSVERSE	STOP		INTERSECTION STOP LINES (WHITE)



Parks Canada

GEMTEC
CONSULTING ENGINEERS AND SCIENTISTS

LEGEND EXISTING
 EXISTING RETAINING WALL
 EXISTING TREE LINE
 EXISTING GUIDE RAIL
 EXISTING OVERHEAD UTILITY LINE
 EXISTING CULVERT
 EXISTING ASPHALT GUTTER
 AREA OF DAMAGE
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 EXISTING DITCH CENTER LINE

LEGEND NEW
 NEW GUIDE RAIL
 NEW CULVERT
 NEW AREA OF REPAIR
 NEW ASPHALT GUTTER

GENERAL NOTES

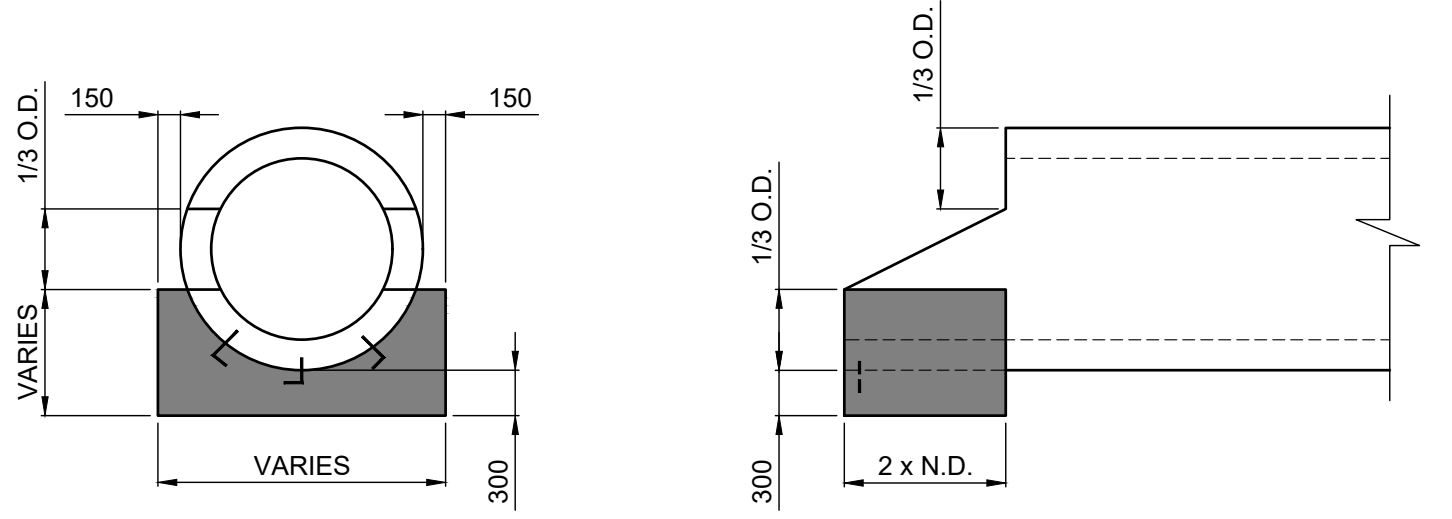
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revisions		date
project	CAPE BRETON HIGHLANDS NATIONAL PARK, CABOT TRAIL NORTH MOUNTAIN REPAIRS	
drawing	design	
designed	DJP/CK	conçu
date	March 2022	
drawn	TLR	dessiné
date	APRIL 2022	
approved		approuvé
date		
Tender	Soumission	
Project Manager	Administrateur de projets TPSSC	
project number	no. du projet	
	2245	
drawing no.	no. du dessin	
100003.005	C8	

E-DRM/GDD-EI

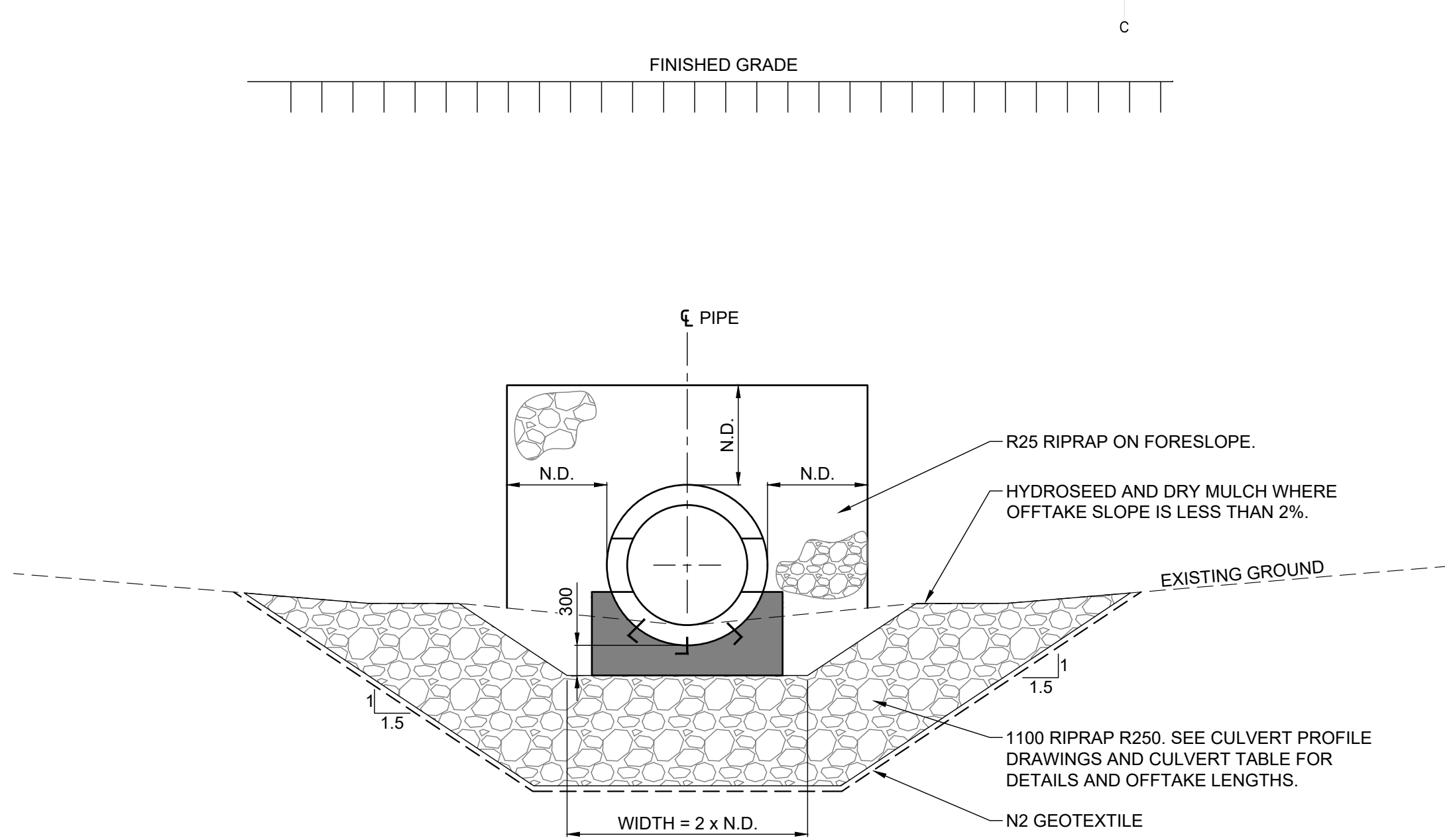
RIPRAP TABLE	
RIPRAP TYPE	THICKNESS (T)
R25	500
R250	1100

NOTE:
O.D. REFERS TO THE OUTSIDE DIAMETER OF PIPE
N.D. REFERS TO THE NOMINAL DIAMETER OF PIPE



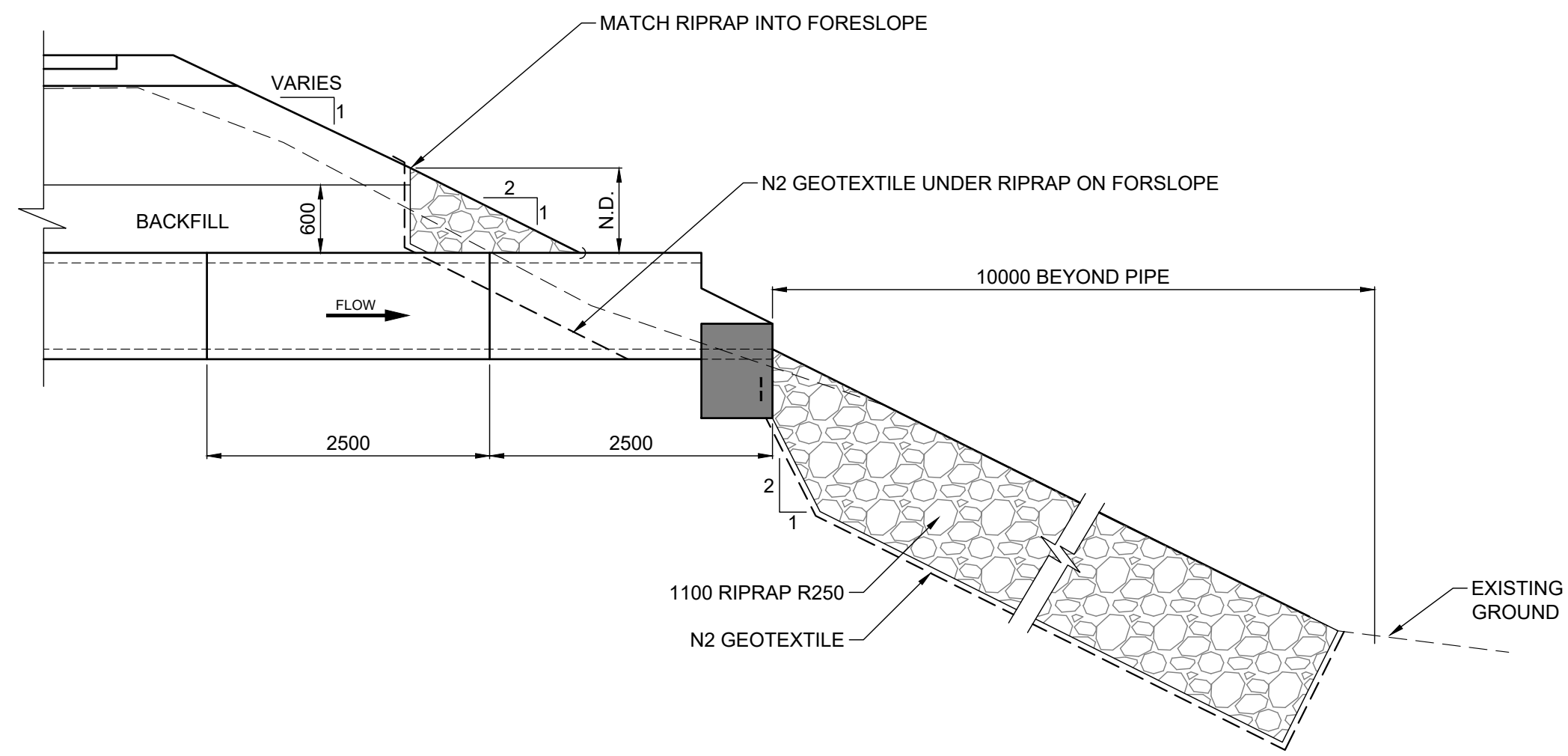
NOTE:
1. ALL DIMENSIONS SHOWN IN MILLIMETERS.
2. REQUIRED AT THE INLET AND OUTLET ENDS OF ALL CONCRETE CULVERTS.
3. CUT-OFF WALLS SHALL BE CONSTRUCTED OF CAST IN PLACE CONCRETE. SEE GENERAL NOTES.

CUT-OFF WALL DETAIL
SCALE: 1:50



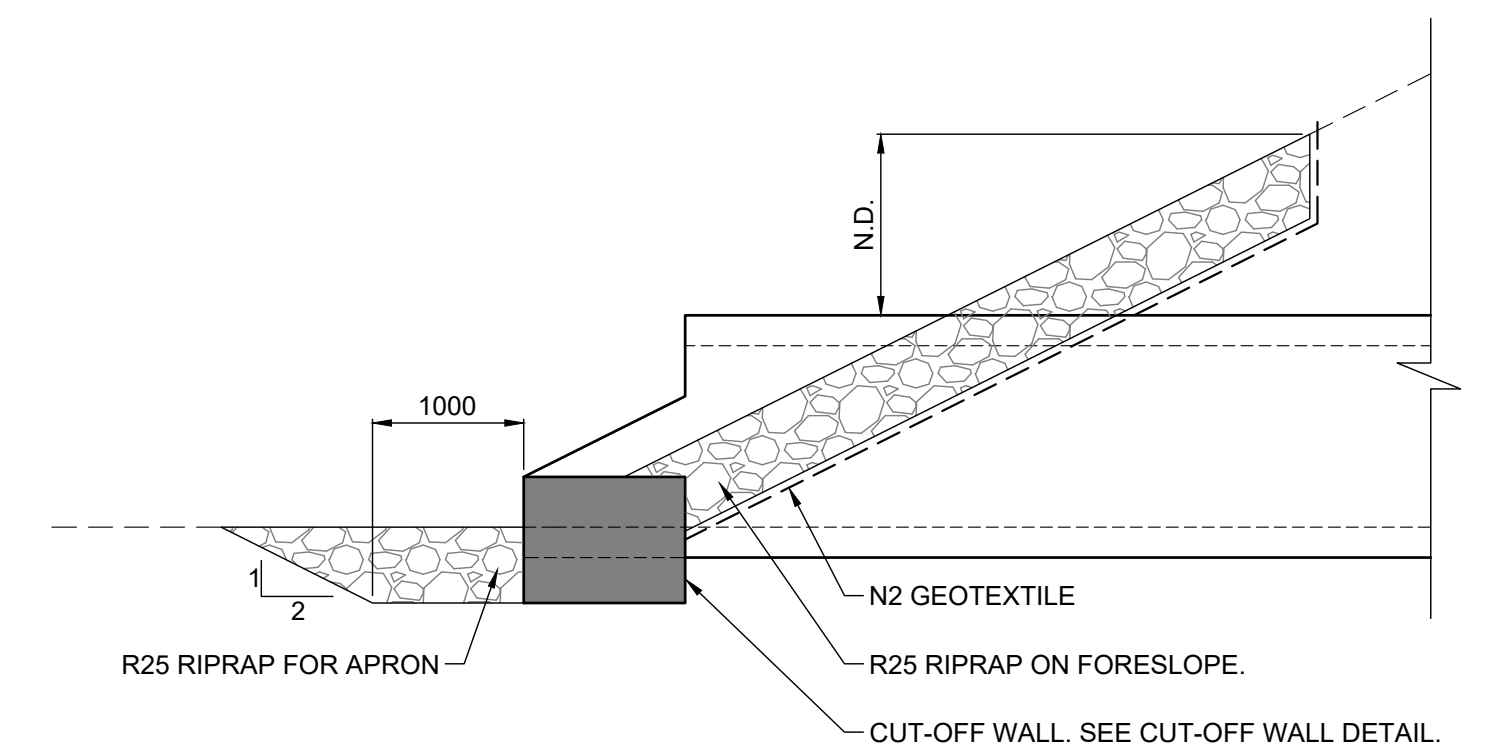
NOTE:
1. ALL DIMENSIONS SHOWN IN MILLIMETERS.
2. MINIMUM OFFTAKE LENGTH TO TOE OF SLOPE OR AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.

TYPICAL CULVERT OUTLET
SCALE: 1:50



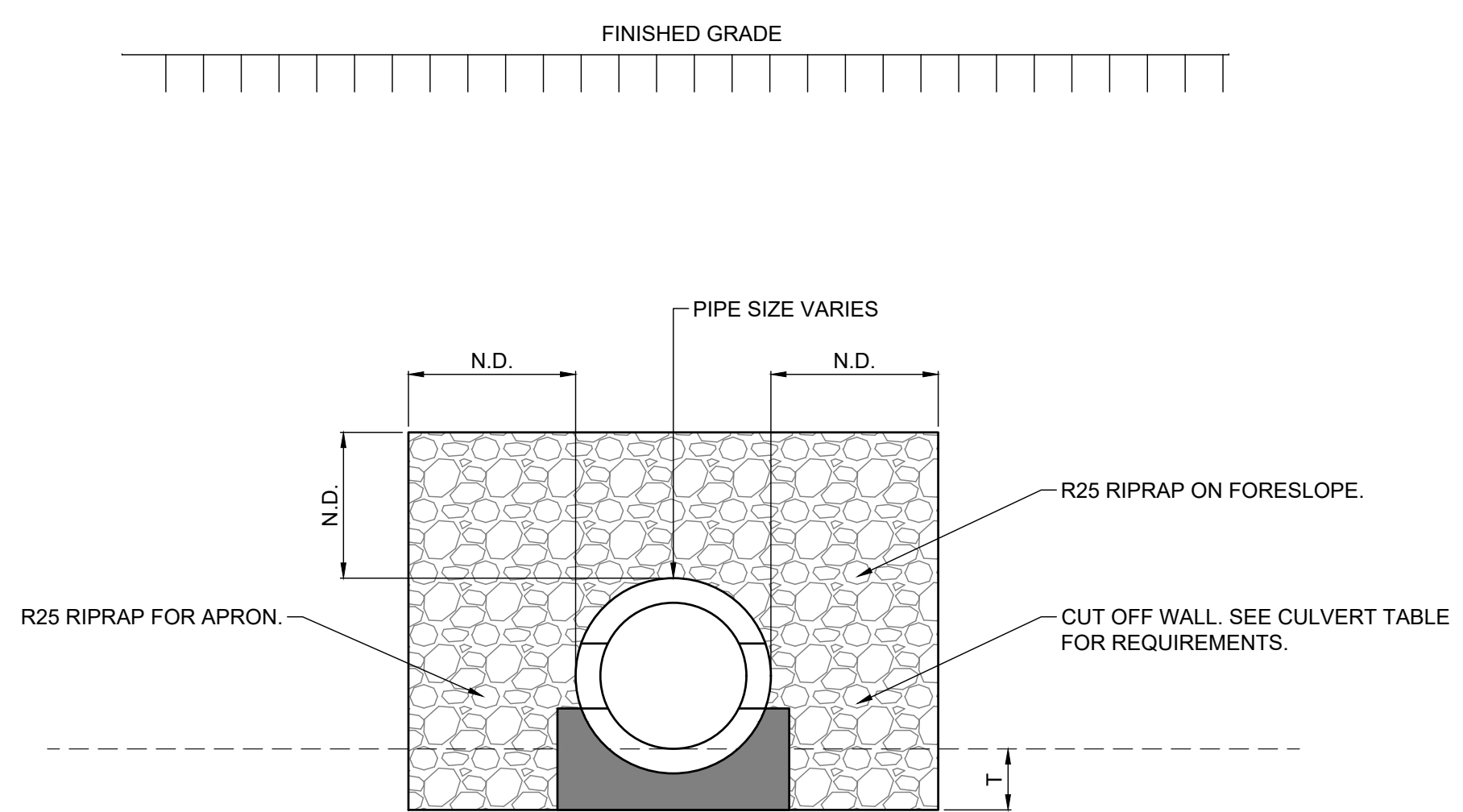
NOTE:
1. ALL DIMENSIONS SHOWN IN MILLIMETERS.

TYPICAL CULVERT OUTLET PROFILE
SCALE: 1:50



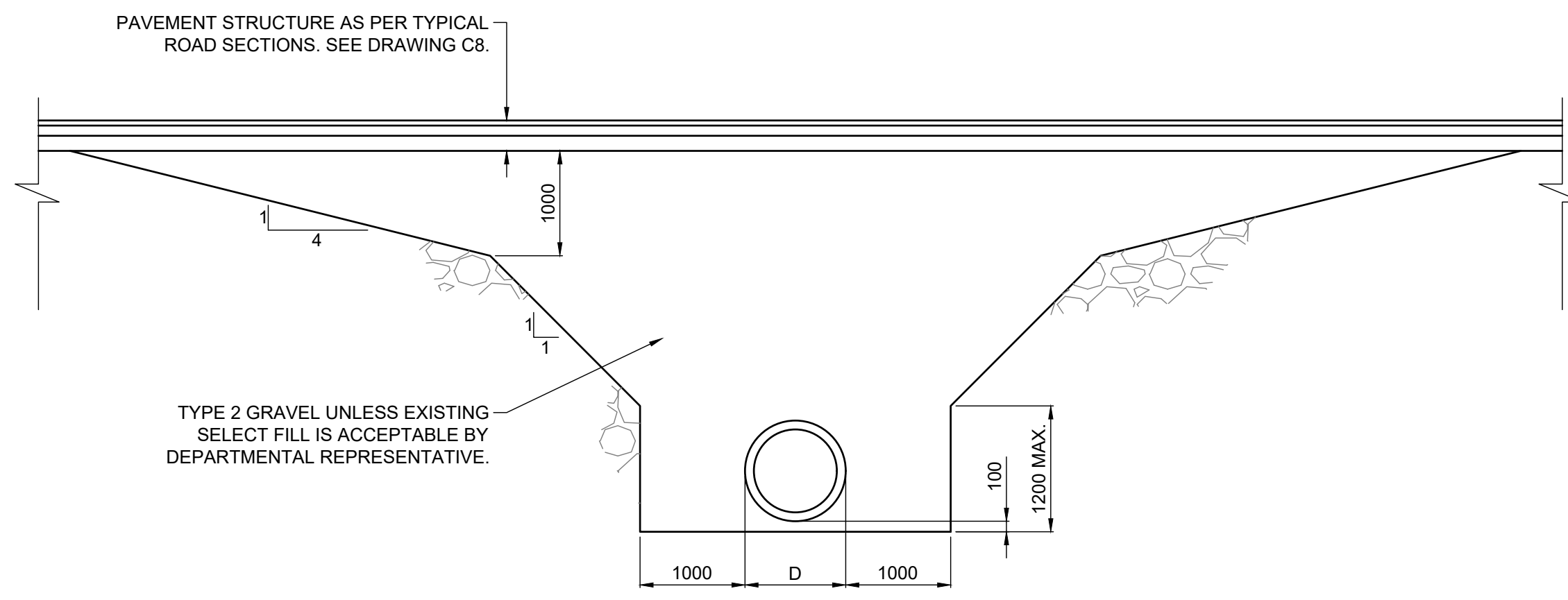
NOTE:
1. ALL DIMENSIONS SHOWN IN MILLIMETERS.
2. SEE CULVERT TABLE FOR RIPRAP SIZE AND TYPE.

SECTION OF CULVERT RIPRAP INLET APRON
SCALE: 1:50



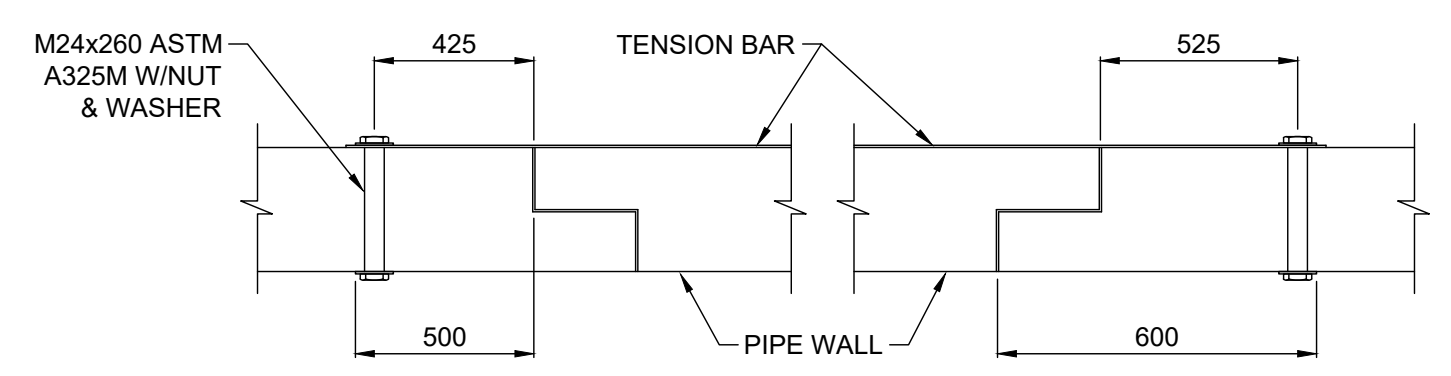
NOTE:
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ELEVATION OF CULVERT RIPRAP INLET APRON
SCALE: 1:50

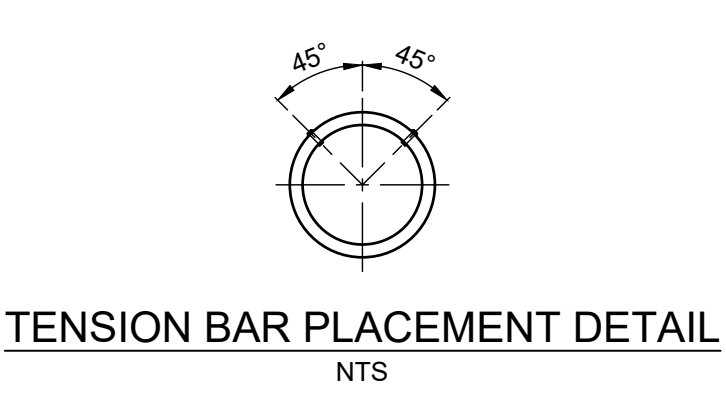


NOTE:
1. ALL DIMENSIONS SHOWN IN MILLIMETERS.
2. D = NOMINAL PIPE DIAMETER; OUTSIDE DIAMETER OF CONCRETE PIPE OR DIAMETER OF HDPE PIPE.
3. RIDING SURFACE MUST BE TYPE 1 GRAVEL BEFORE OPENING TO PUBLIC TRAFFIC.

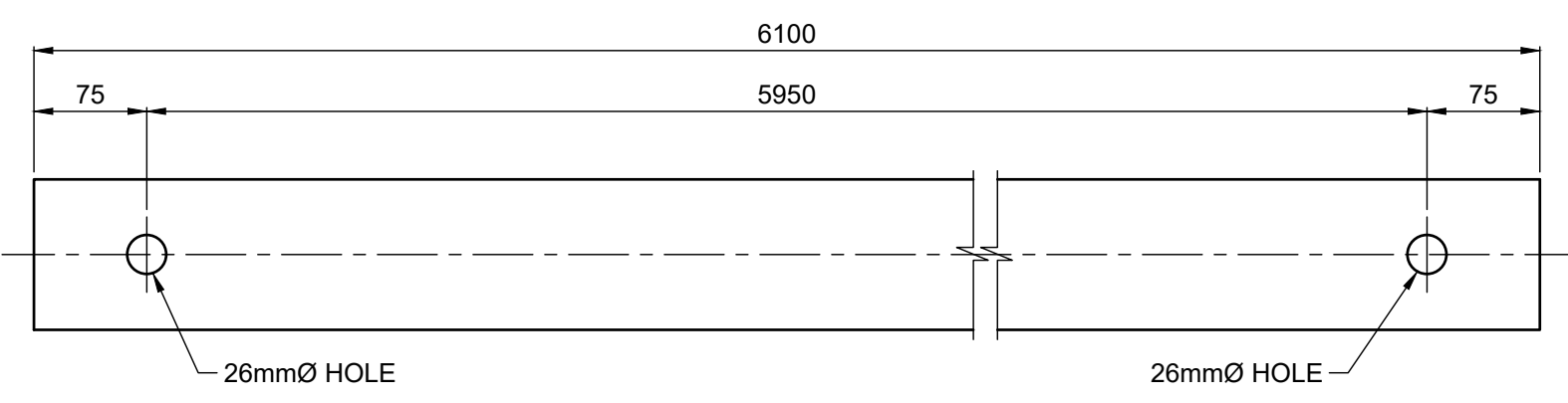
LIMITS OF BACKFILLING AROUND STRUCTURES (PRIOR TO ASPHALT REINSTATEMENT ON PROJECT)
SCALE: 1:50



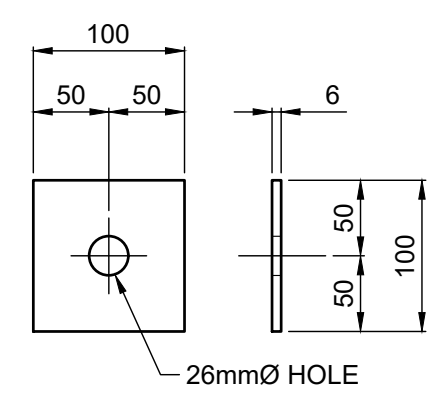
BOLTING DETAIL
NTS



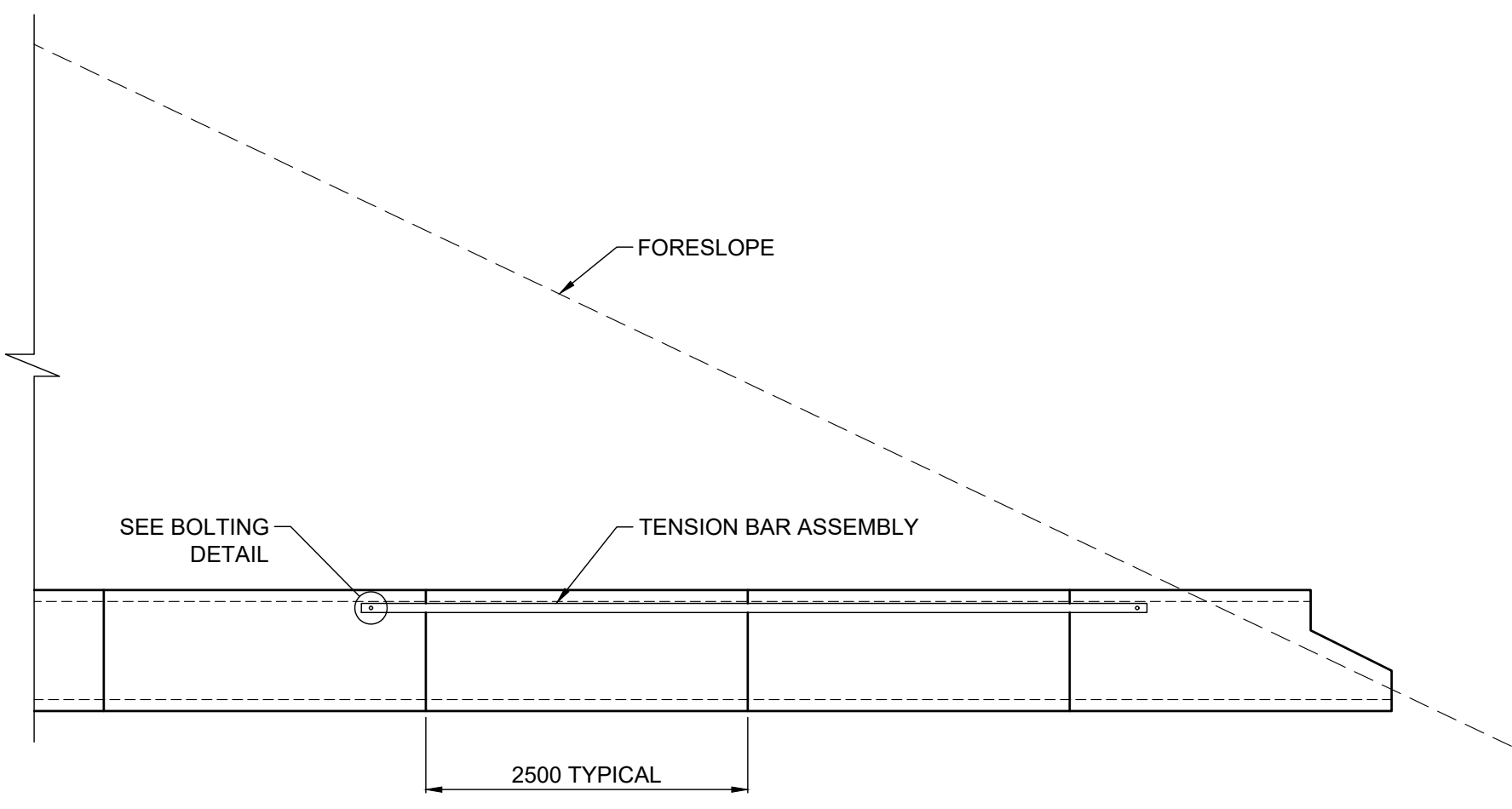
TENSION BAR PLACEMENT DETAIL
NTS



TENSION BAR



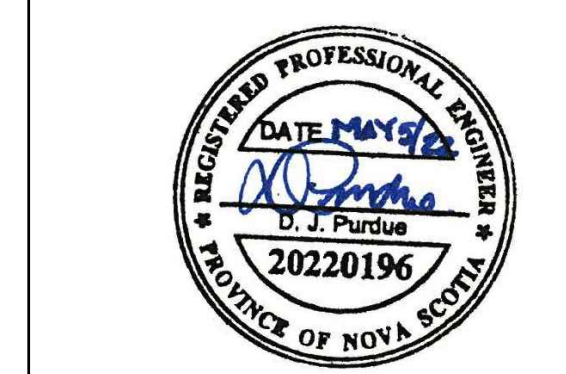
WASHER



SECTION VIEW
NTS

NOTE:
1. ALL DIMENSIONS SHOWN IN MILLIMETERS.
2. TENSION BARS TO SPAN LAST THREE JOINTS AT OUTLET.
3. STEEL SHALL BE PER CSA G40.12 300W.
4. TENSION BARS, NUTS AND WASHERS SHALL BE GALVANIZED PER CSA G164-M92, TO A MINIMUM MASS OF 610g/m².
5. BOLTS FOR TENSION BARS SHALL BE GALVANIZED M24x260 (SAE GRADE 5).
6. TENSION BAR SHALL BE USED AS TEMPLATE FOR CONTRACTOR TO FIELD DRILL HOLES IN INSTALLED PIPE.
7. NUTS SHALL NOT BE OVER TIGHTENED.
8. BOLT LENGTH PROTRUDING MORE THAN 25mm BEYOND TIGHTENED NUT SHALL BE CUT FLUSH WITH NUT.

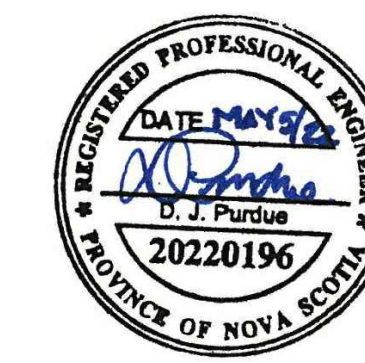
TENSION BAR ASSEMBLY
SCALE: 1:5



LEGEND EXISTING	
	EXISTING RETAINING WALL
	EXISTING TREE LINE
	EXISTING GUIDE RAIL
	EXISTING OVERHEAD UTILITY LINE
	EXISTING CULVERT
	EXISTING ASPHALT GUTTER
	AREA OF DAMAGE
	AREA OF DAMAGE WITH TEMPORARY EMERGENCY REPAIRS
	EXISTING DITCH CENTER LINE
LEGEND NEW	
	NEW GUIDE RAIL
	NEW CULVERT
	NEW AREA OF REPAIR
	NEW ASPHALT GUTTER

- GENERAL NOTES**
- All location, dimensions, and quantities are approximate.
 - Acquire all necessary permits prior to undertaking work.
 - Locate and protect all underground and aboveground utilities.
 - Implement an approved Traffic Control Plan prior to undertaking the work.
 - Work area is designated as the Cabot Trail from Lone Shining to Sta. 40+750.
 - All dimensions are expressed in millimetres.
 - All stations and elevations are expressed in metres.
 - Coordinates are referenced to the NAD83 (CSRS 1997) UTM ZONE 20, CGVD 28 Coordinate System.
 - Cast-in-place Concrete meeting CSA A23.1 C-2 exposure class requirements.
 - Supply and place Rock Fill shall be used where Rock Fill is required at a depth of 1500mm below finished grade. Rock Fill placed from the on site stockpile will be used below this level at the discretion of the Department Representative. Minimum loose lift thickness for Rock Fill shall not be less than 300mm and shall not exceed 450mm.

1	ISSUED FOR TENDER	MAY 5 2022
revisions		date
project	CAPE BRETON HIGHLANDS NATIONAL PARK, CABOT TRAIL NORTH MOUNTAIN REPAIRS	
drawing	desin	
designed	DJP/CK	conçu
date	March 2022	
drawn	TLR	dessiné
date	APRIL 2022	
approved		approuvé
date		
Tender	Soumission	
PWOSC Project Manager	Administrateur de projets TPSSC	
project number	no. du projet	
	2245	
drawing no.	no. du dessin	
100003.005	C9	



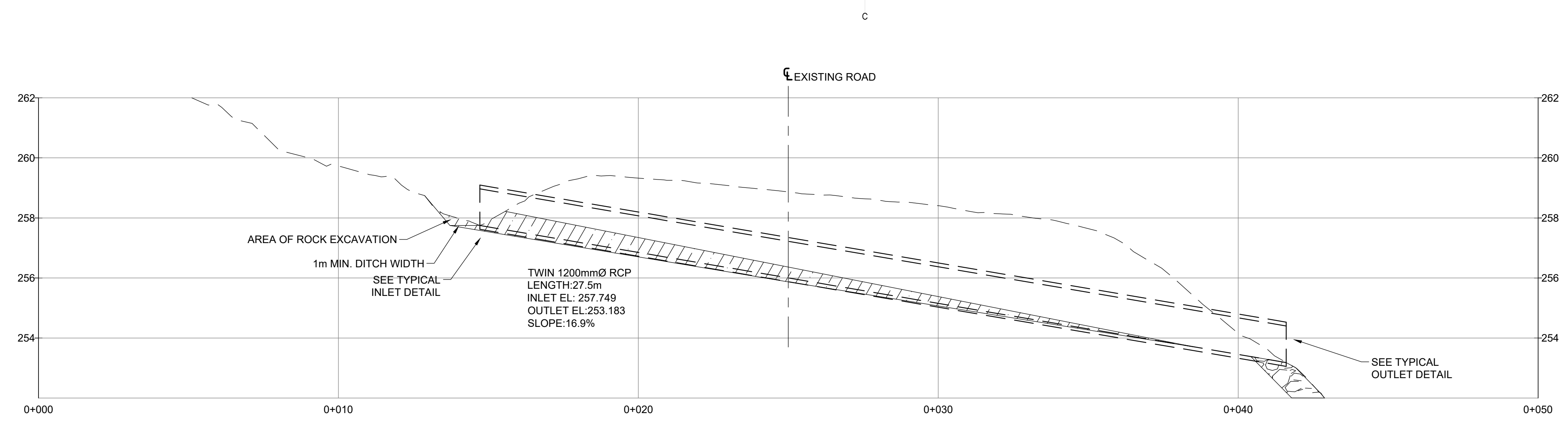
LEGEND EXISTING

- EXISTING RETAINING WALL
- EXISTING TREE LINE
- EXISTING GUIDE RAIL
- EXISTING OVERHEAD UTILITY LINE
- EXISTING CULVERT
- EXISTING ASPHALT GUTTER
- AREA OF DAMAGE
- AREA OF DAMAGE WITH TEMPORARY EMERGENCY REPAIRS
- EXISTING DITCH CENTER LINE

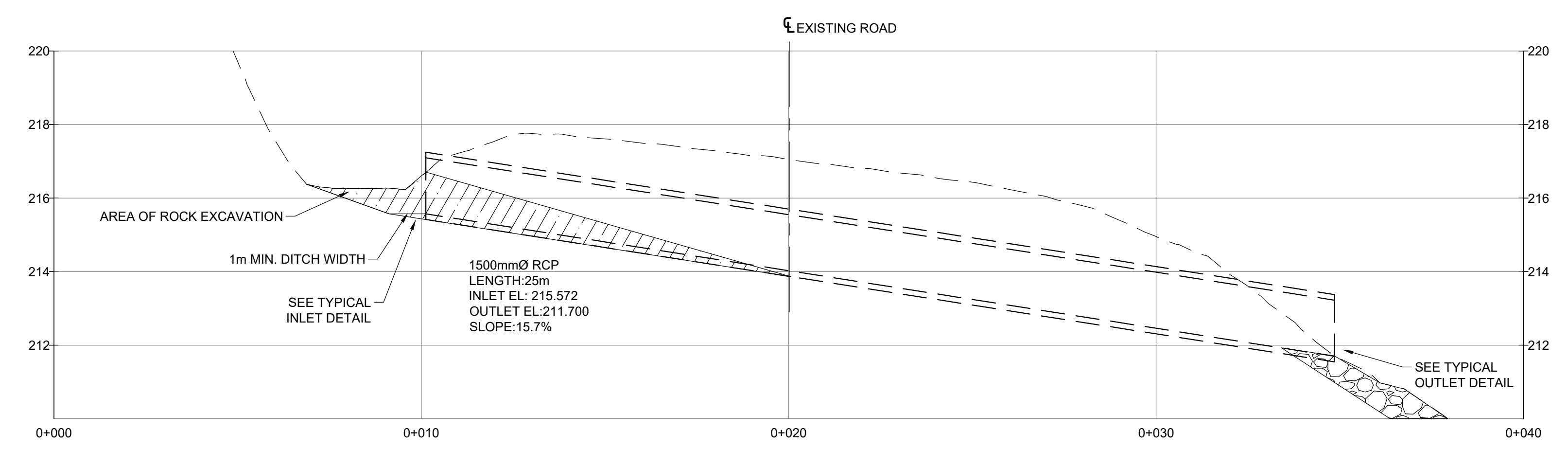
LEGEND NEW

- NEW GUIDE RAIL
- NEW CULVERT
- NEW AREA OF REPAIR
- NEW ASPHALT GUTTER

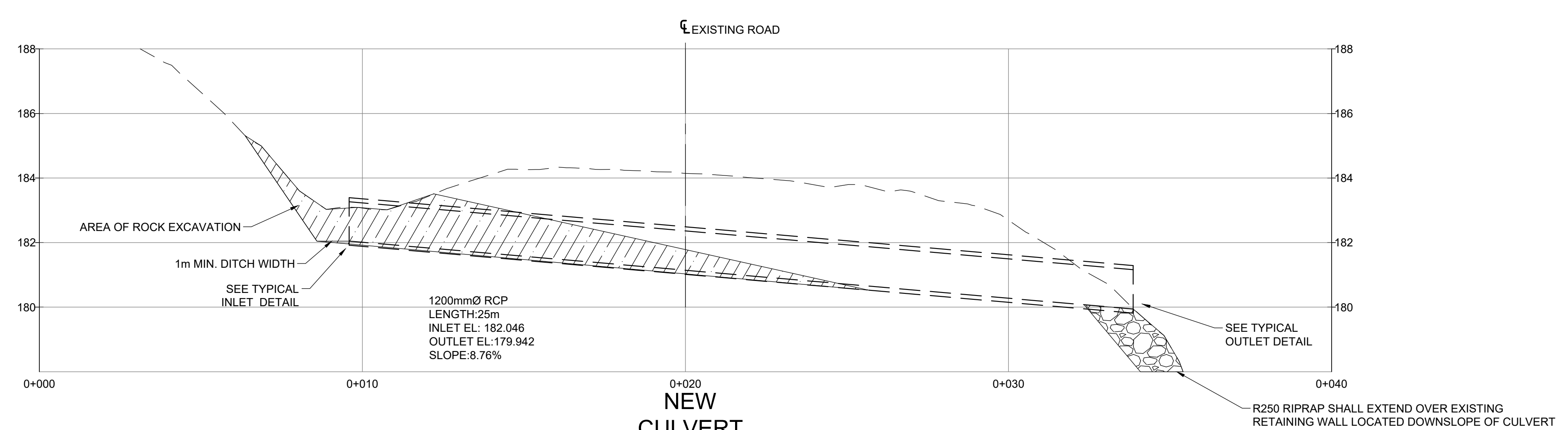
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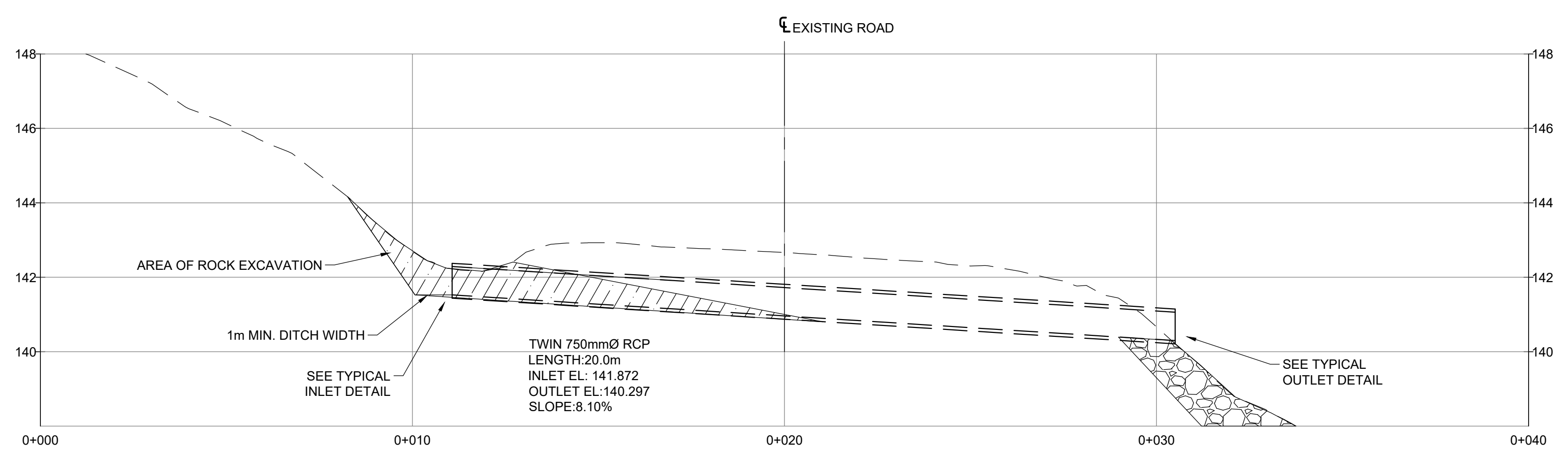
**NEW CULVERT
STA. 40+705**



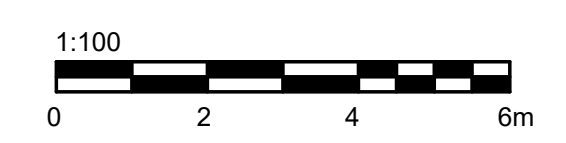
**NEW CULVERT
STA. 40+365**



**NEW CULVERT
STA. 40+104**



**NEW CULVERT
STA. 39+581**



1	ISSUED FOR TENDER	MAY 5 2022
revisions		date
project	CAPE BRETON HIGHLANDS NATIONAL PARK, CABOT TRAIL NORTH MOUNTAIN REPAIRS	
drawing	dessin	
CULVERT CROSS SECTIONS		
designed	DJP	conçu
date	MAY 2022	
drawn	AJM	dessiné
date	MAY 2022	
approved		approuvé
date		
Tender	Soumission	
PWOSC Project Manager	Administrateur de projets TPSGC	
project number	2245	no. du projet
drawing no.	100003.005	no. du dessin
	C10	