

WAYII AREA TRAIL DESIGN INDEX SHEET

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1 REVISED REST AREAS

1 REVISED REST AREAS

1 REVISED REST AREAS

1 REVISED REST AREAS

1 REVISED NOTES

apsčilk tasii
“Going in the right direction on the trail”

Q:\TV\030121 - PHASE 20A - 19\PACIFIC TRAVERSE TRAIL\DWG\ESCAPMENT\VF\ESCAPMENT G-01 COVER SHEET.DWG PLOTTED ON 2021/03/12 3:11pm BY p002818E

MARCH 2021



PARSONS


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1	REVISED REST AREAS	21/03/10
0	ISSUED FOR TENDER	21/02/18

Revision/ Révision	Description/Description	Date/Date
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Client/client

	Parks Canada Agency	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet

TOFINO
**PACIFIC RIM
NATIONAL PARK RESERVE**
ʔapsčik tašii
(Ups-cheek ta-shee)
**“Going in the right
direction on the trail”**

Consultant Signature Only

Designed by/Concept par
ANDREW KWIATKOWSKI

Drawn by/Dessiné par
MICHAEL GIANG

PCA Project Manager/Technical Authority
Administrateur de Projets APC
JACKIE HICKS

Drawing title/Titre du dessin

WAYII AREA TRAIL DESIGN

SITE PLAN

Project No./No. du projet	Sheet/Fauille	Revision no./ La Révision no.
PCA #1522	E-01 OF	1

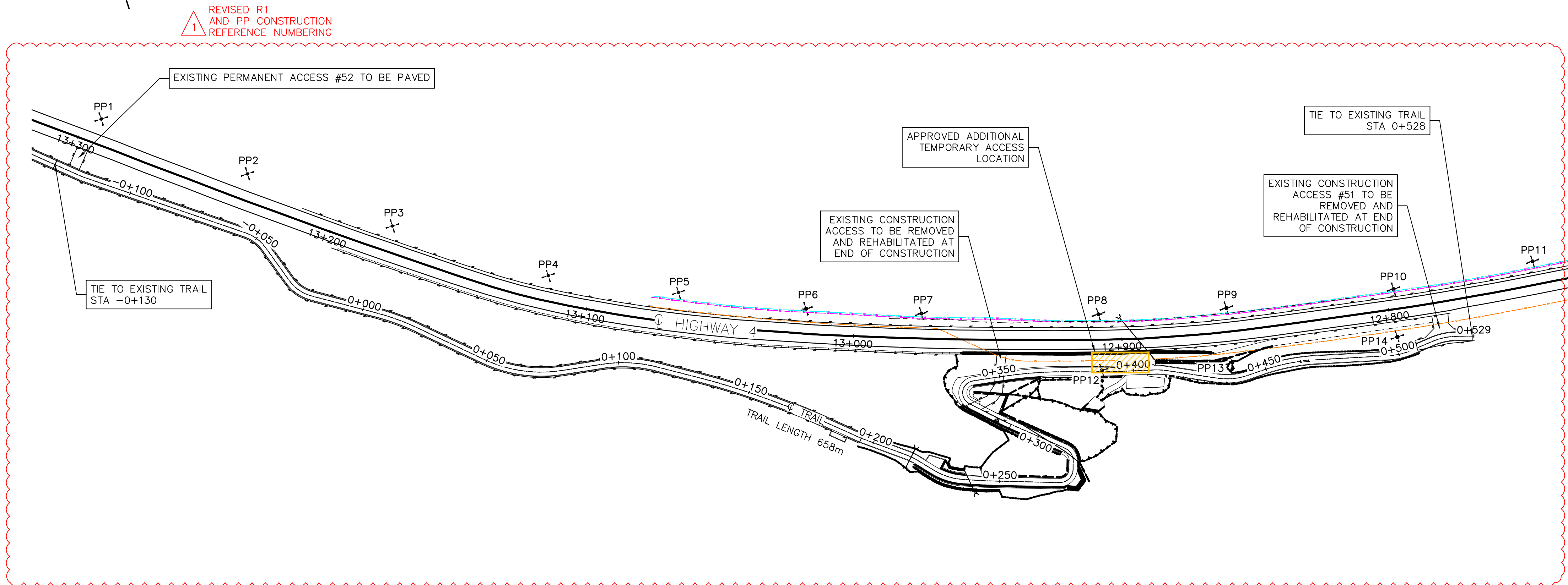
LEGEND

EXISTING

- EDGE OF PAVEMENT
- SHOULDER OF HIGHWAY
- CONCRETE ROADSIDE BARRIER
- TOP OF BANK
- CENTER OF CREEK/DITCH
- UTILITY POLE

PROPOSED

- EDGE OF TRAIL
- CONCRETE ROADSIDE BARRIER
- SAFETY RAIL
- RETAINING WALL
- TOE OF FILL
- CREST OF CUT
- CENTER OF CREEK/DITCH
- EXISTING TREE
- TREE 1m DIAMETER OR LARGER
- CULVERT
- SANITARY LINE
- WATER LINE
- FIBER OPTIC



PLAN
1:1000


NOTES:

- SURVEY DATA IS BASED UPON THE UTM NAD83 COORDINATE SYSTEM.
- THE CONTRACTOR SHALL ADHERE TO ALL ENVIRONMENTAL AND ARCHAEOLOGICAL REGULATIONS AS SPECIFIED IN THE CONTRACT.
- UTILITY LOCATIONS ARE AN APPROXIMATION BASED ON ISL 2014 RECORD DRAWING. UTILITY LOCATES MUST BE CONDUCTED PRIOR TO CONSTRUCTION TO IDENTIFY EXACT LOCATIONS OF UTILITIES.
- ALL EXPOSED CUT AND FILL SLOPES TO BE COVERED IN MIN 150mm DEEP OF NATIVE ORGANICS, SALVAGED FROM THE SITE DURING GRUBBING/STRIPPING. NATIVE ORGANICS ARE NOT TO BE MIXED WITH UNDERLYING MINERAL SOIL (CLAY, SAND, ETC.) AND MUST BE STORED SEPARATELY TO BE RE-USED ON THE SLOPE. ORGANICS TO BE COVERED (AS DIRECTED BY THE GEOTECHNICAL ENGINEER) WITH C32BD EROSION CONTROL BLANKET (ECB) SECURED WITH HOOKED REBAR "PINS". LARGE WOODY DEBRIS (STUMPS, LOGS, ETC.) SALVAGED FROM THE SITE DURING GRUBBING/STRIPPING TO BE PLACED ON TOP OF THE ECB, AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND OEM.
- POSTED HIGHWAY SPEED 80 km/hr.
- NEW CULVERTS TO BE ADDED AT THE FOLLOWING LOCATIONS. CULVERT STATIONING IS APPROXIMATE AND FINAL CULVERT LOCATIONS ARE TO BE CONFIRMED ON SITE BY THE DR.
 - 0+194 - 8m X 750mm
 - 0+155 - 8m X 600mm
 - 0+115 - 8m X 250mm (QUANTITIES INCLUDE AN ALLOWANCE FOR UP TO THREE ADDITIONAL SIMILAR "EQUALIZATION CULVERTS")
 - 0+065 - 8m X 600mm
- TURN AROUND LOOP FROM PERMANENT ACCESS #52 TO PREVIOUS ACCESS IS AVAILABLE TO CONTRACTORS. THE TRAIL ALONG THIS SECTION HAS BEEN PREPARED TO BASE COURSE ELEVATION. IF THIS ACCESS LOOP IS USED, THE CONTRACTOR IS TO REINSTATE TO SAME CONDITION AT NO COST TO PARKS.

1 ADDED
NOTES

PARSONS

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Project title/Titre du projet

TOFINO

PACIFIC RIM
NATIONAL PARK RESERVE

ʔapsciik taʔii
(Ups-cheek ta-shie)
“Going in the right
direction on the trail”

Consultant Signature Only

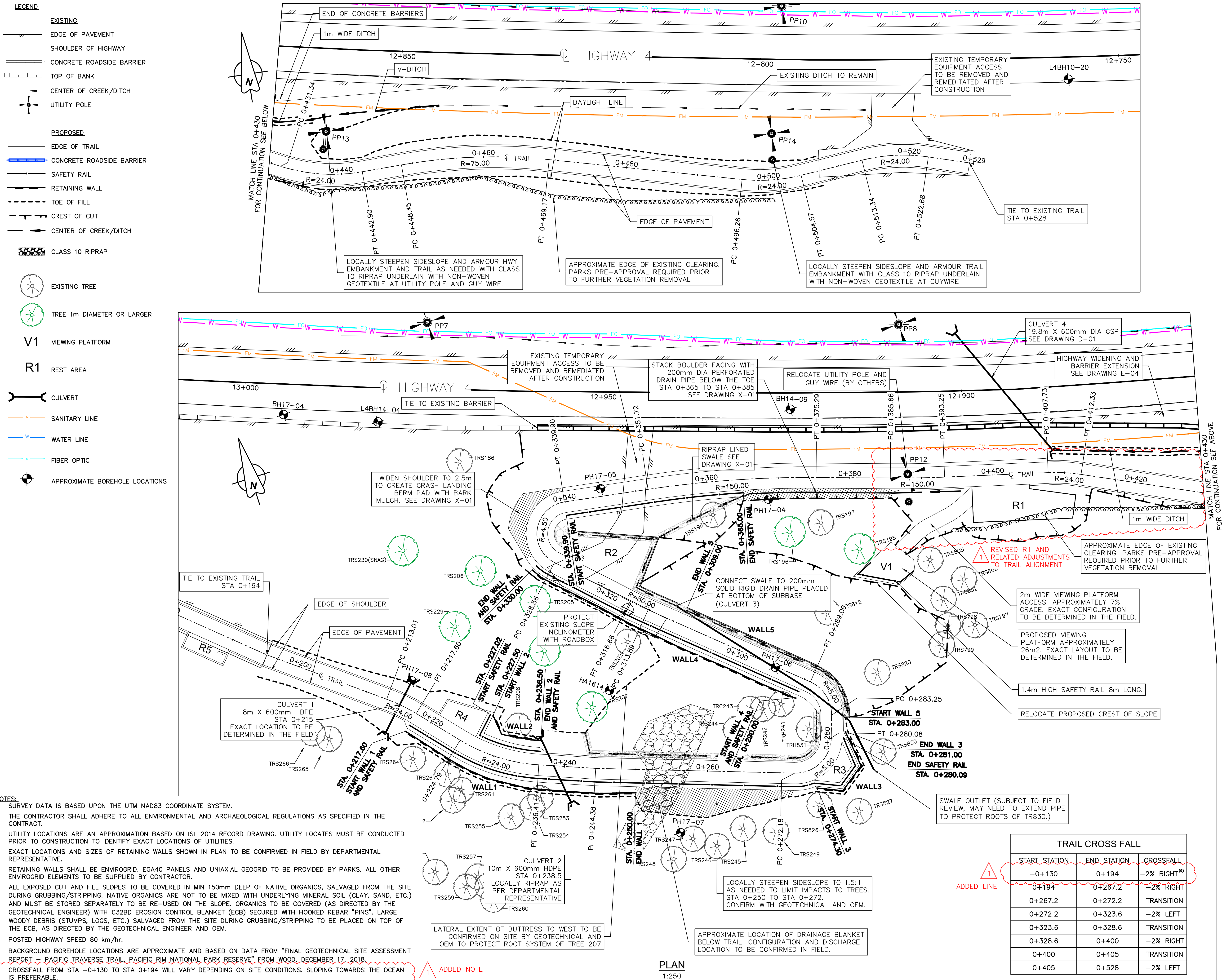
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Drawn by/Dessine par MICHAEL GIANG
PCA Project Manager/Technical Authority Administrateur de Projets APC JACKIE HICKS

Drawing title/Titre du dessin

WAYII AREA TRAIL DESIGN

TRAIL PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
PCA #1522	E-02	1
	OF	



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Revision	1	REVISED REST AREAS	21/03/10
Revision	0	ISSUED FOR TENDER	21/02/18

Client/client	Parks Canada Agency	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet
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PACIFIC RIM
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Consultant Signature Only

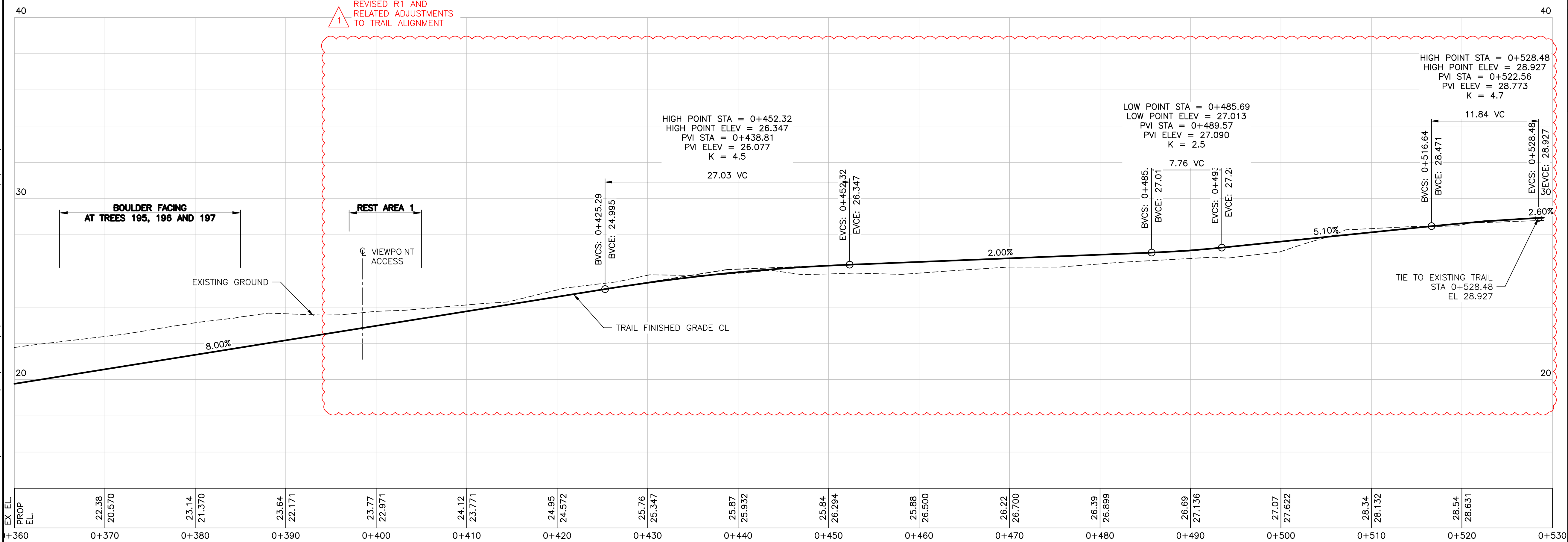
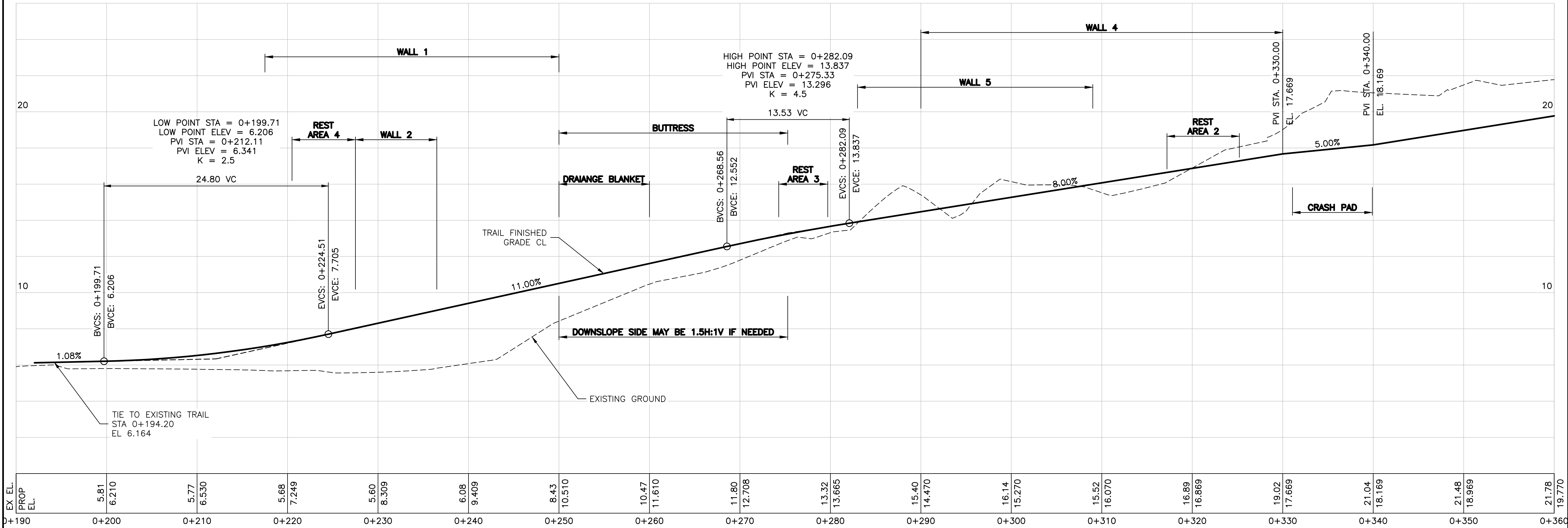
Designed by/Concept par
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par
MICHAEL GIANG

PCA Project Manager/Technical Authority
Administrateur de Projets APC
JACKIE HICKS

Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
TRAIL PROFILE

Project No./No. du projet PCA #1522	Sheet/Feuille E-03 OF	Revision no./no. de Révision 1
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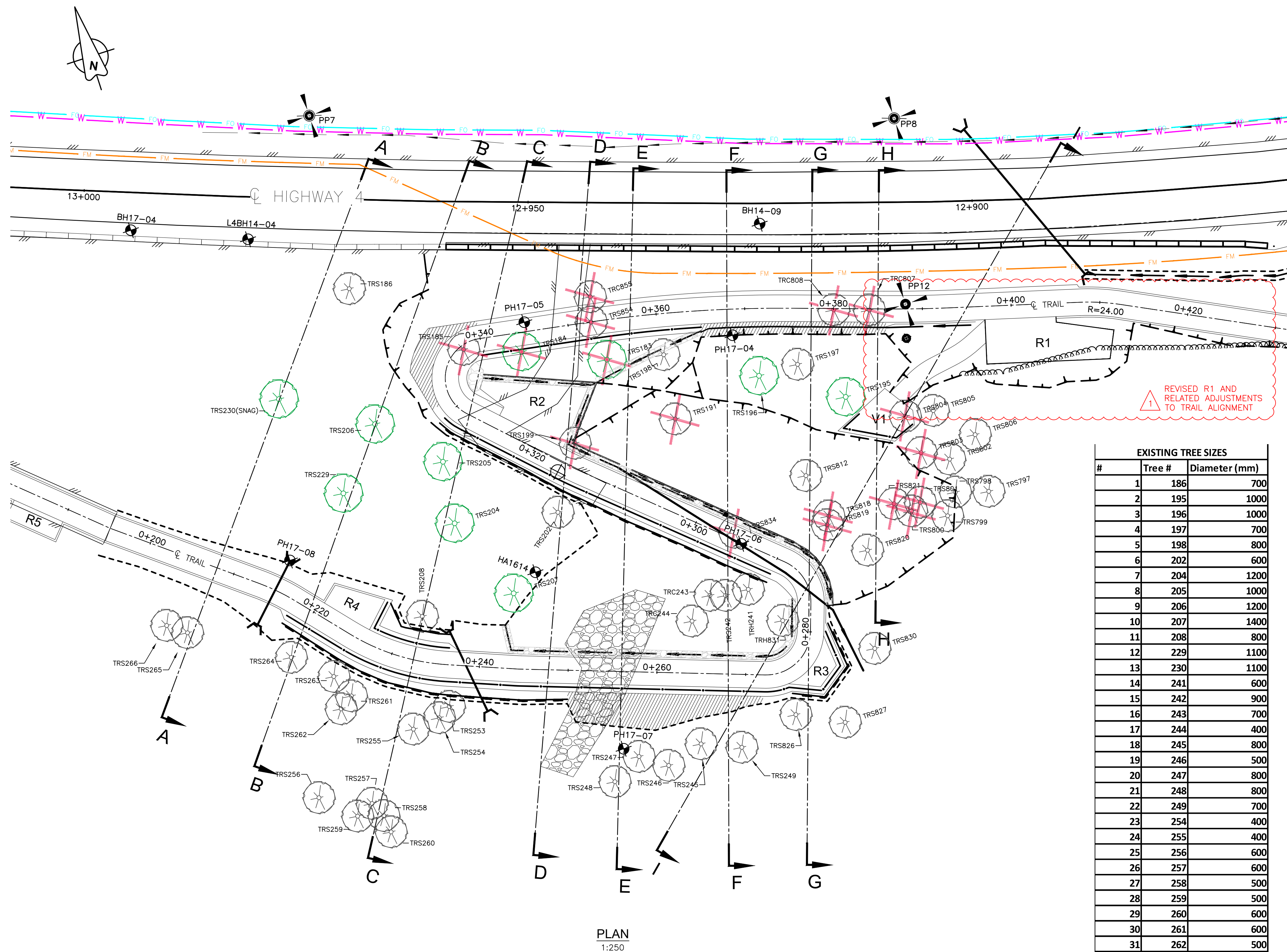
PROFILE
1:250 HOR - 1:125 VER

PARSONS

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LEGEND

- EXISTING**
- EDGE OF PAVEMENT
 - SHOULDER OF HIGHWAY
 - CONCRETE ROADSIDE BARRIER
 - TOP OF BANK
 - CENTER OF CREEK/DITCH
 - UTILITY POLE
- PROPOSED**
- EDGE OF TRAIL
 - CONCRETE ROADSIDE BARRIER
 - SAFETY RAIL
 - RETAINING WALL
 - TOE OF FILL
 - CREST OF CUT
 - CENTER OF CREEK/DITCH
- CLASS 10 RIPRAP
- TREE REMOVED DURING CLEARING
- EXISTING TREE
- TREE 1m DIAMETER OR LARGER
- V1 VIEWING PLATFORM
- R1 REST AREA
- CULVERT
- SANITARY LINE
- WATER LINE
- FIBER OPTIC
- BOREHOLE



EXISTING TREE SIZES		
#	Tree #	Diameter (mm)
1	186	700
2	195	1000
3	196	1000
4	197	700
5	198	800
6	202	600
7	204	1200
8	205	1000
9	206	1200
10	207	1400
11	208	800
12	229	1100
13	230	1100
14	241	600
15	242	900
16	243	700
17	244	400
18	245	800
19	246	500
20	247	800
21	248	800
22	249	700
23	254	400
24	255	400
25	256	600
26	257	600
27	258	500
28	259	500
29	260	600
30	261	600
31	262	500
32	263	500
33	264	600
34	265	700
35	266	700
36	797	600
37	798	600
38	799	600
39	802	500
40	805	500
41	806	600
42	812	500
43	820	700
44	826	700
45	827	700
46	830	800
47	831	500

- NOTE:
- TREE DIAMETERS ARE AN APPROXIMATION.
 - TREES NOTED AS HAVING BEEN REMOVED: STUMPS REMAIN AND WILL NEED TO BE REMOVED (EXCAVATED) AS PART OF THIS CONTRACT. EXPECT ZONE OF DISTURBANCE THAT WILL NEED TO BE REINSTATED. FOR STUMPS ON CUT SLOPES THAT ARE NEAR THE FINISHED SLOPE FACE CONFIRM WITH WSP PRIOR TO REMOVAL.
 - CONTRACTOR MUST EMPLOY METHODS THAT PROTECT MATURE TREES (>500mm) IN THE WORK AREA TO AVOID ADDITIONAL REMOVALS, OR DAMAGE TO LIMBS AND ROOT SYSTEMS.
 - TREES TO REMAIN: TRIMMING, CLIMBING OR ANY OTHER MODIFICATION TO EXISTING TREE REQUIRES WRITTEN APPROVAL FROM PARKS. TREES 1m DIAMETER OR LARGER ARE OFF LIMIT AND NOT TO BE MODIFIED.
 - TREES REQUIRING REMOVAL: IF, AFTER CONSULTATION WITH GEOTECHNICAL ENGINEER AND OEM, IT IS DETERMINED THAT A TREE MUST BE REMOVED TO FACILITATE CONSTRUCTION, THIS MAY BE ALLOWED AFTER ADVANCED NOTICE, BREEDING BIRD SURVEY AND WRITTEN APPROVAL FROM PARKS.
 - BACKGROUND BOREHOLE LOCATIONS ARE APPROXIMATE AND BASED ON DATA FROM "FINAL GEOTECHNICAL SITE ASSESSMENT REPORT - PACIFIC TRAVERSE TRAIL, PACIFIC RIM NATIONAL PARK RESERVE" FROM WOOD, DECEMBER 17, 2018.

Revision/	Description/Description	Date/Date
1	REVISED REST AREAS	21/03/10
0	ISSUED FOR TENDER	21/02/18

Client/client	
Parks Canada Agency	L'Agence Parcs Canada
Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet
TOFINO
PACIFIC RIM
NATIONAL PARK RESERVE
?apscik tasii
(Ups-cheek ta-shee)
"Going in the right
direction on the trail"

Consultant Signature Only

Designed by/Concept par
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessine par
MICHAEL GIANG


PCA Project Manager/Technical Authority
Administrateur de Projets APC
JACKIE HICKS

Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
CLEARED TREE PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
PCA #1522	E-04 OF	1





Client/client	
 Parks Canada Agency	L'Agence Parcs Canada
Western and Northern Region	Ouest et Nord du Canada

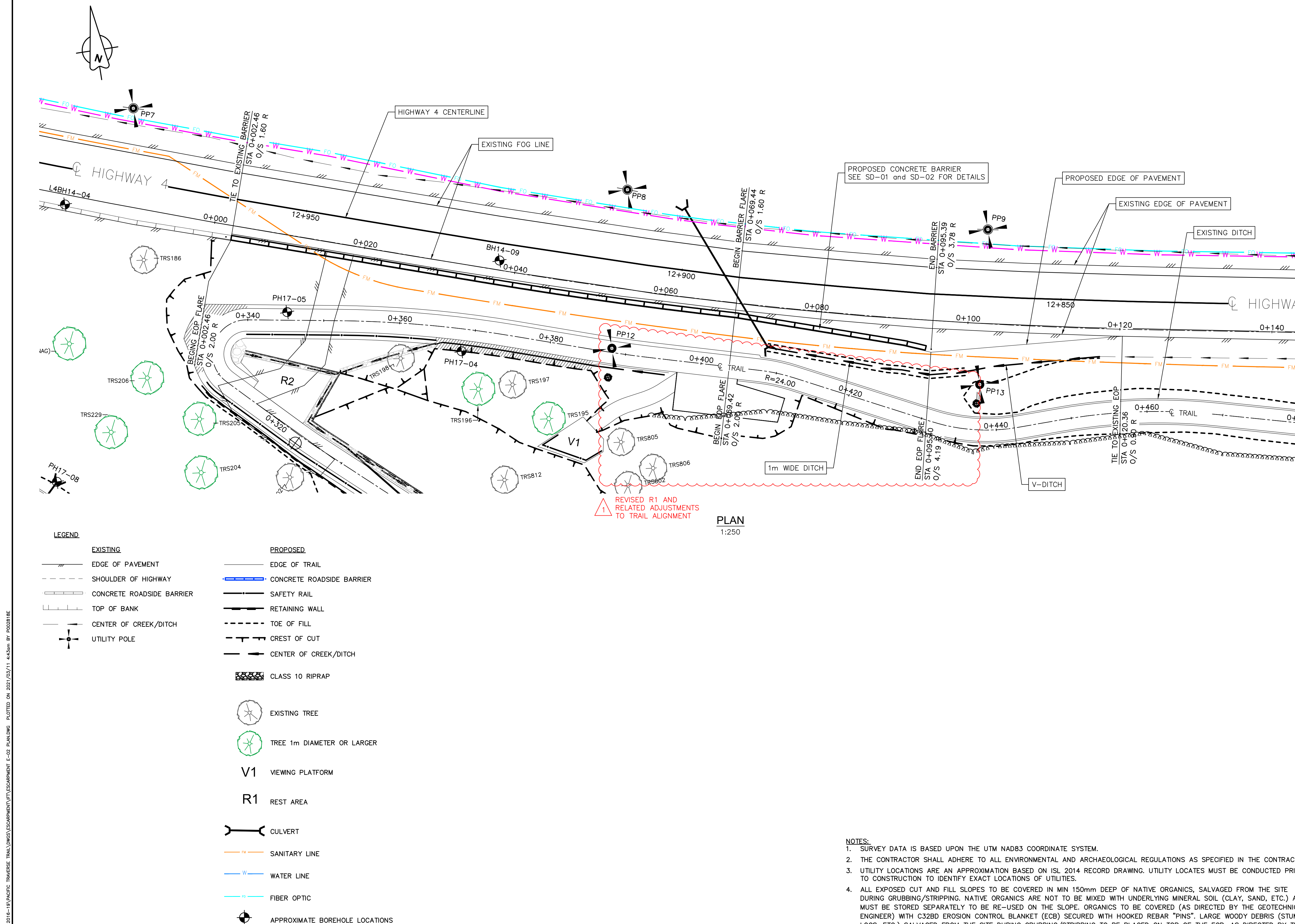
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Drawing title/Titre du dessin

WAYII AREA TRAIL DESIGN

ROADSIDE BARRIER PLAN

Project No./No. du projet	Sheet/Feuille	Revision no. La Révision no.
PCA #1522	E-05	1
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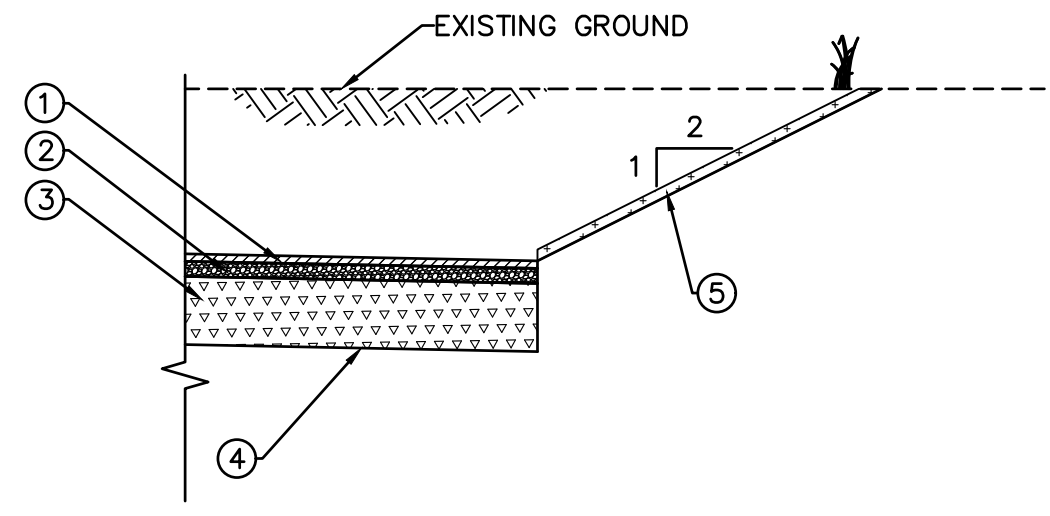
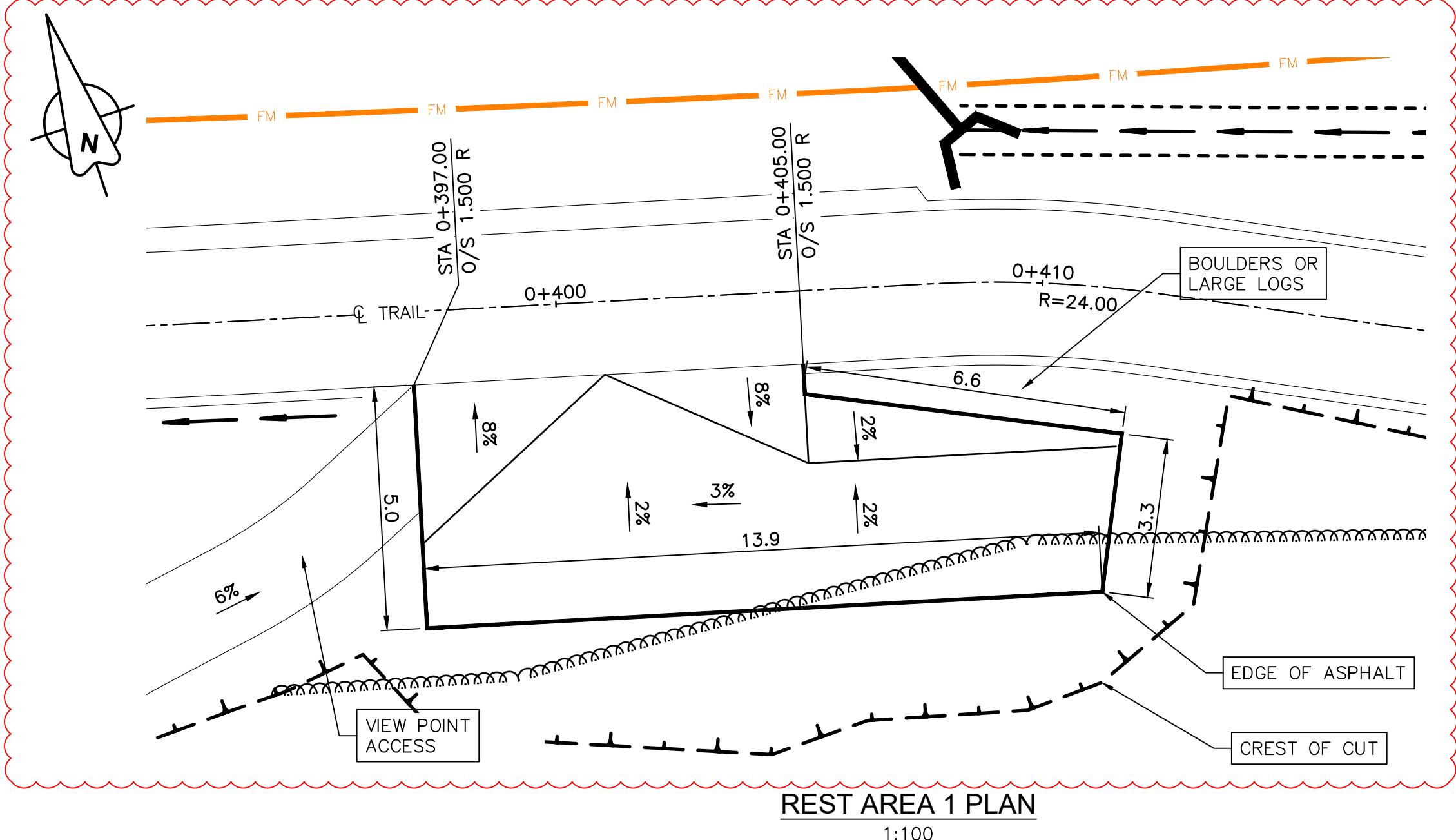


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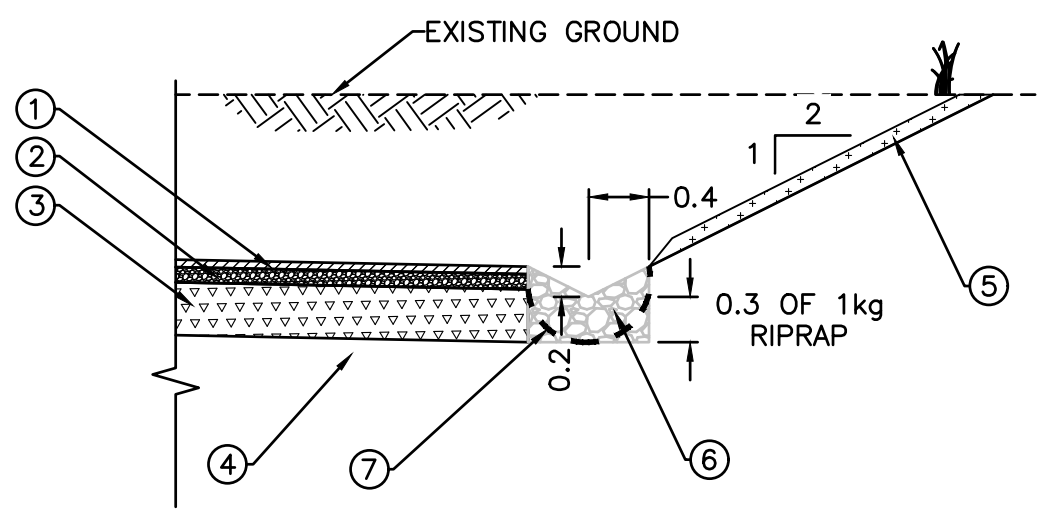
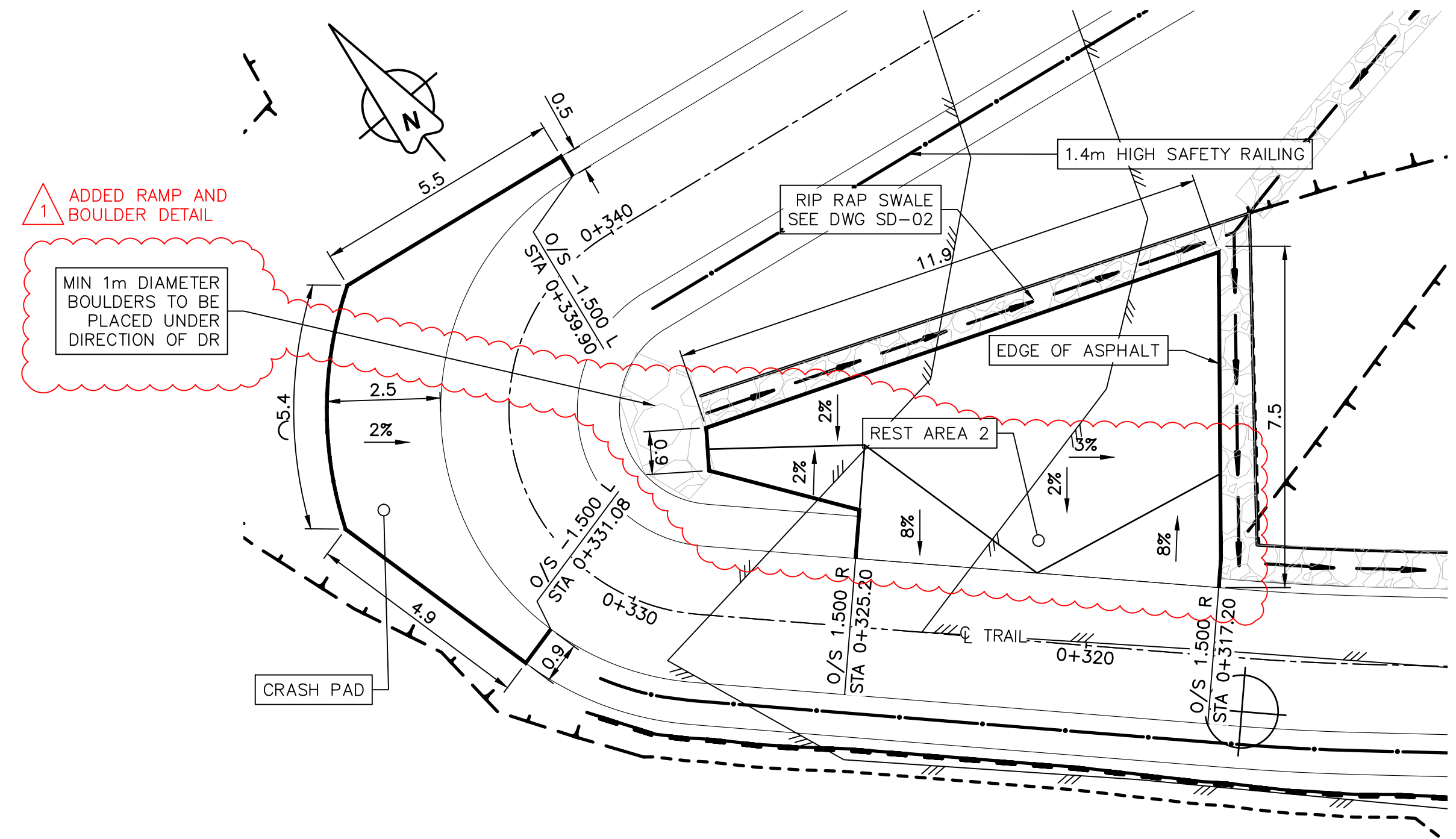
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2. THE CONTRACTOR SHALL ADHERE TO ALL ENVIRONMENTAL AND ARCHAEOLOGICAL REGULATIONS AS SPECIFIED IN THE CONTRACT.
3. UTILITY LOCATIONS ARE AN APPROXIMATION BASED ON ISL 2014 RECORD DRAWING. UTILITY LOCATES MUST BE CONDUCTED PRIOR TO CONSTRUCTION TO IDENTIFY EXACT LOCATIONS OF UTILITIES.
4. ALL EXPOSED CUT AND FILL SLOPES TO BE COVERED IN MIN 150mm DEEP OF NATIVE ORGANICS, SALVAGED FROM THE SITE DURING GRUBBING/STRIPPING. NATIVE ORGANICS ARE NOT TO BE MIXED WITH UNDERLYING MINERAL SOIL (CLAY, SAND, ETC.) AND MUST BE STORED SEPARATELY TO BE RE-USED ON THE SLOPE. ORGANICS TO BE COVERED (AS DIRECTED BY THE GEOTECHNICAL ENGINEER) WITH C32BD EROSION CONTROL BLANKET (ECB) SECURED WITH HOOKED REBAR "PINS". LARGE WOODY DEBRIS (STUMPS LOGS, ETC.) SALVAGED FROM THE SITE DURING GRUBBING/STRIPPING TO BE PLACED ON TOP OF THE ECB, AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND OEM.
5. POSTED HIGHWAY SPEED 80 km/hr.
6. BACKGROUND BOREHOLE LOCATIONS ARE APPROXIMATE AND BASED ON DATA FROM "FINAL GEOTECHNICAL SITE ASSESSMENT REPORT – PACIFIC TRAVERSE TRAIL, PACIFIC RIM NATIONAL PARK RESERVE" FROM WOOD, DECEMBER 17, 2018.

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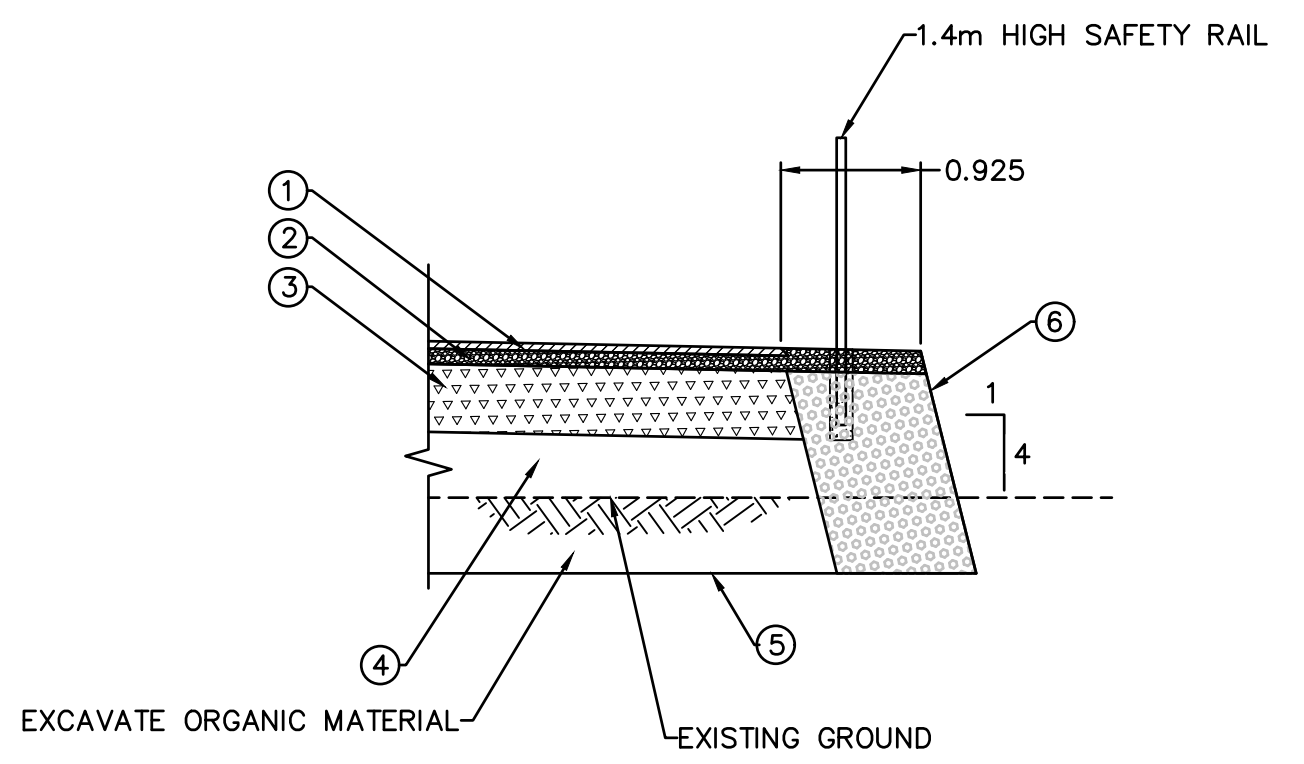
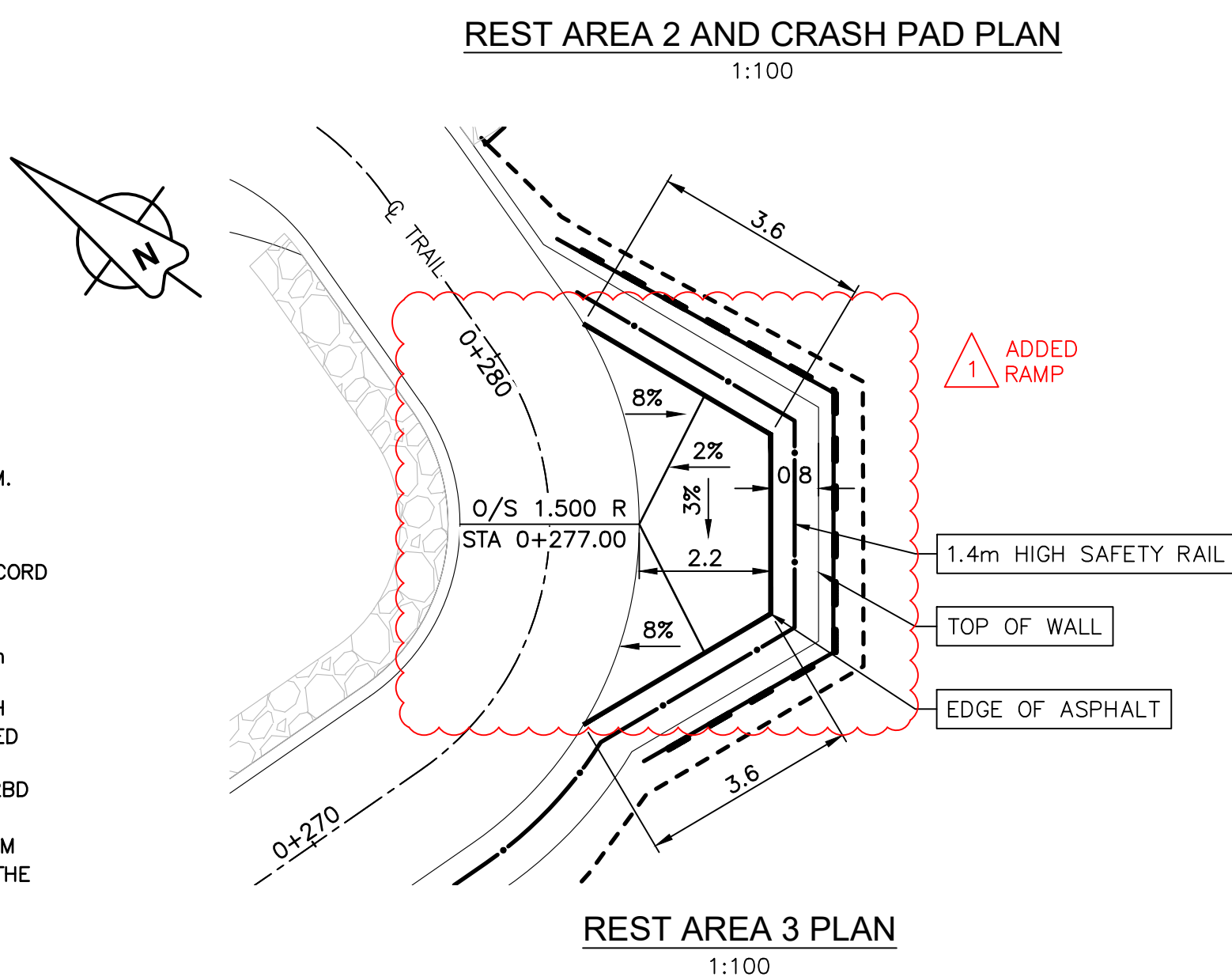
- LEGEND**
- EXISTING**
- EDGE OF PAVEMENT
 - SHOULDER OF HIGHWAY
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 - RETAINING WALL
 - TOE OF FILL
 - CREST OF CUT
 - CENTER OF CREEK/DITCH
 - CLASS 10 RIPRAP



- STRUCTURE:**
- 50mm ASPHALT MMCD FINE MIX
 - 100mm - 19mm GRANULAR BASE
 - 450mm - 75mm PIT RUN
 - GEOTECHNICALLY APPROVED UNDISTURBED SUB-GRADE
 - SALVAGED ORGANICS MIN 150mm THICK AND WOODY DEBRIS PER OEM. EXTENSIVE WOOD DEBRIS ACCEPTABLE.



- STRUCTURE:**
- 50mm ASPHALT MMCD FINE MIX
 - 100mm - 19mm GRANULAR BASE
 - 450mm - 75mm PIT RUN
 - GEOTECHNICALLY APPROVED UNDISTURBED SUB-GRADE
 - SALVAGED ORGANICS MIN 150mm THICK AND WOODY DEBRIS PER OEM. SEE ENVIRONMENTAL DRAWINGS EN-01 TO EN-04 FOR DETAILS.
 - NON WOVEN GEOTEXTILE ARMTEC 200 OR APPROVED EQUIVALENT
 - CLASS 10kg RIPRAP



- STRUCTURE:**
- 50mm ASPHALT MMCD FINE MIX
 - 100mm - 19mm GRANULAR BASE
 - 450mm - 75mm CRUSHED GRANULAR SUBBASE
 - APPROVED COMPACTED BACKFILL
 - GEOTECHNICALLY APPROVED UNDISTURBED SUB-GRADE
 - ENVIROGRID WALL SEE WALL DRAWING WD-1 TO WD-4 FOR DETAILS.

- NOTES:**
- SURVEY DATA IS BASED UPON THE UTM NAD83 COORDINATE SYSTEM.
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 - POSTED HIGHWAY SPEED 80 km/hr.

PARSONS

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1	REVISED REST AREAS	21/03/10
0	ISSUED FOR TENDER	21/02/18

Revision/	Description/Description	Date/Date
Client/client		
	Parks Canada L'Agence Parcs Agency Canada	
	Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet	TOFINO PACIFIC RIM NATIONAL PARK RESERVE ᑭᐱᓂᓕᓴᓴ ᓂᐱᓴᓴ (Ups-cheek ta-shee) "Going in the right direction on the trail"
Consultant Signature Only	
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Drawn by/Dessiné par MICHAEL GIANG	
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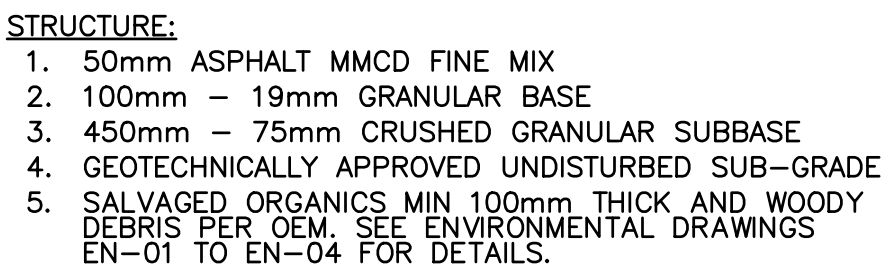
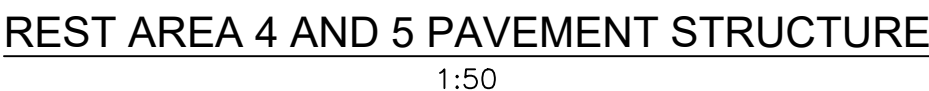
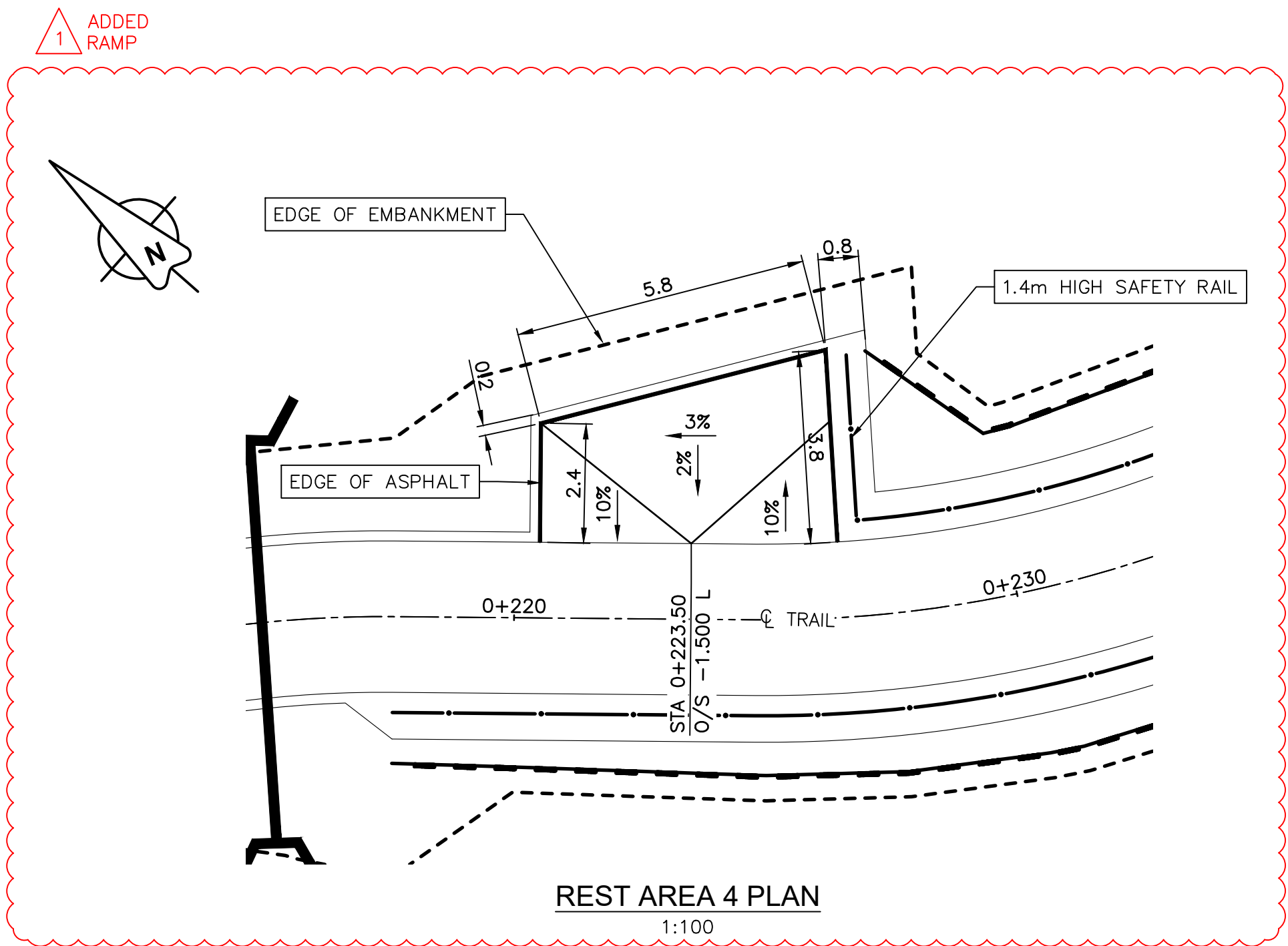
Drawing title/Titre du dessin	WAYII AREA TRAIL DESIGN REST AREA LAYOUT 1
Project No./No. du projet	PCA #1522
Sheet/Feuille	E-06 OF
Revision no./La Révision no.	1

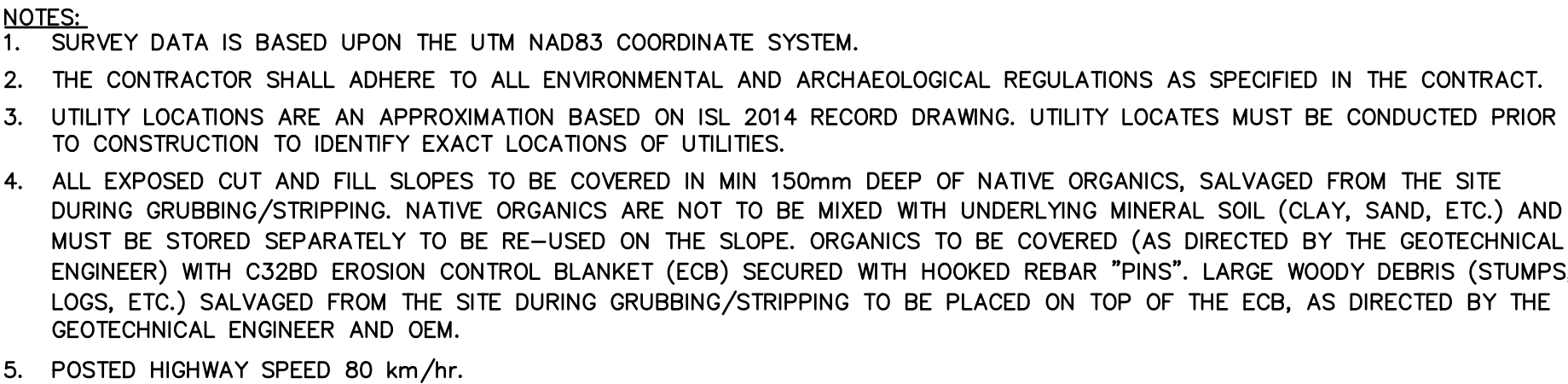


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PCA #1522	E-07	1
	OF	

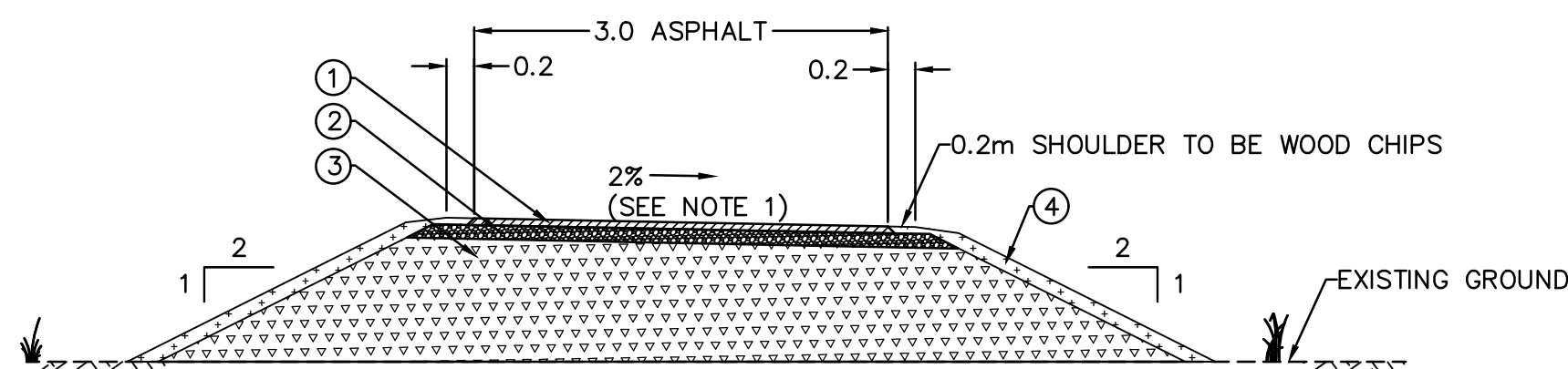




Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
PCA #1522	E-08	0
	OF	



\\VOCANBFS01\VAN\TV\603171 - PW055 504 2016-19\N\PACIFIC TRAIL\WORKS\ESCARPMENT\T\T\ESCARPMENT 2-01-02 TYPICAL SECTIONS.DWG PLOTTED ON: 2022/03/10 5:09pm BY P00281.BE

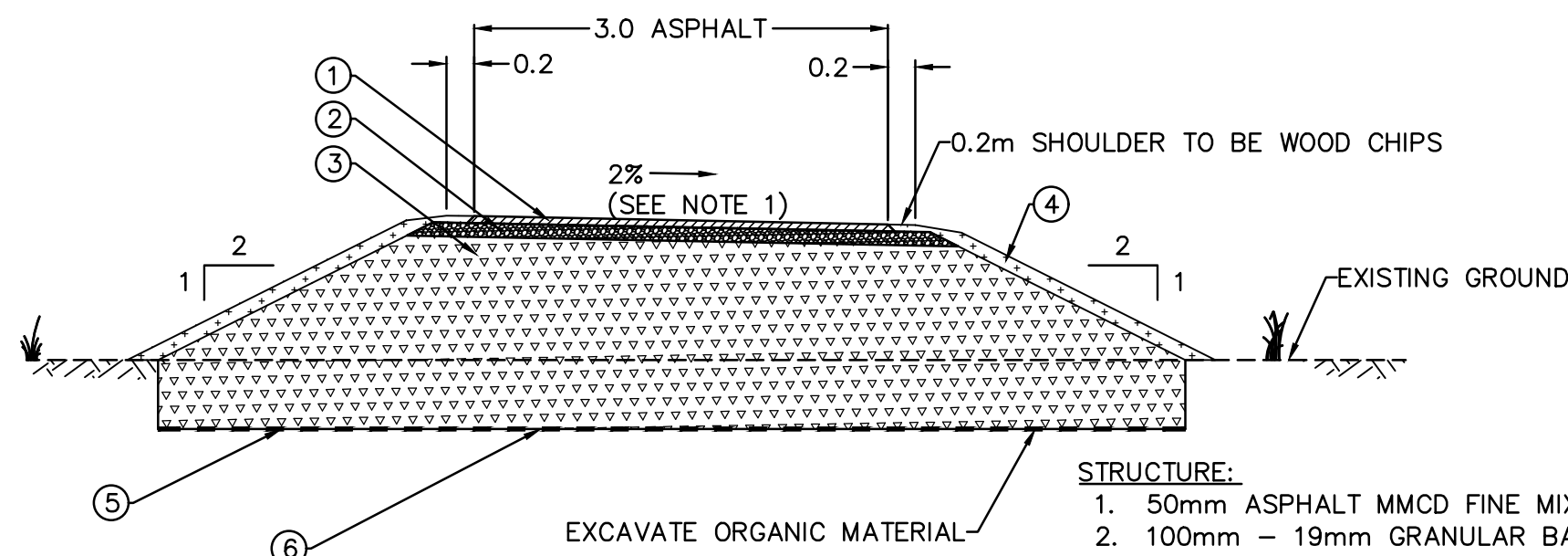


TYPICAL TRAIL PAVING SECTION
1:50

STA -0+130 TO STA 0+195

- STRUCTURE:
- 50mm ASPHALT MMCD FINE MIX
 - 100mm - 19mm GRANULAR BASE
 - EXISTING SUBBASE IS TO BE COMPACTED IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER. AFTER COMPACTION, THE EXISTING SUBBASE IS TO BE TOPPED UP WITH 75mm CRUSHED GRANULAR SUBBASE TO FILL-IN LOCAL LOWS AND GRADE/LEVEL IN THE VICINITY OF NEW AND EXISTING CULVERTS. THICKNESS TO BE VARIABLE AS DIRECTED BY DIR.
 - SALVAGED ORGANICS MIN 150mm THICK AND WOOD DEBRIS PER OEM. ONLY WOOD DEBRIS/ORGANICS RESTRICTION IS NOT TO IMPEDE DRAINAGE.
- REVISED SUBBASE

- NOTES:
- CROSS FALL DIRECTION VARIES.

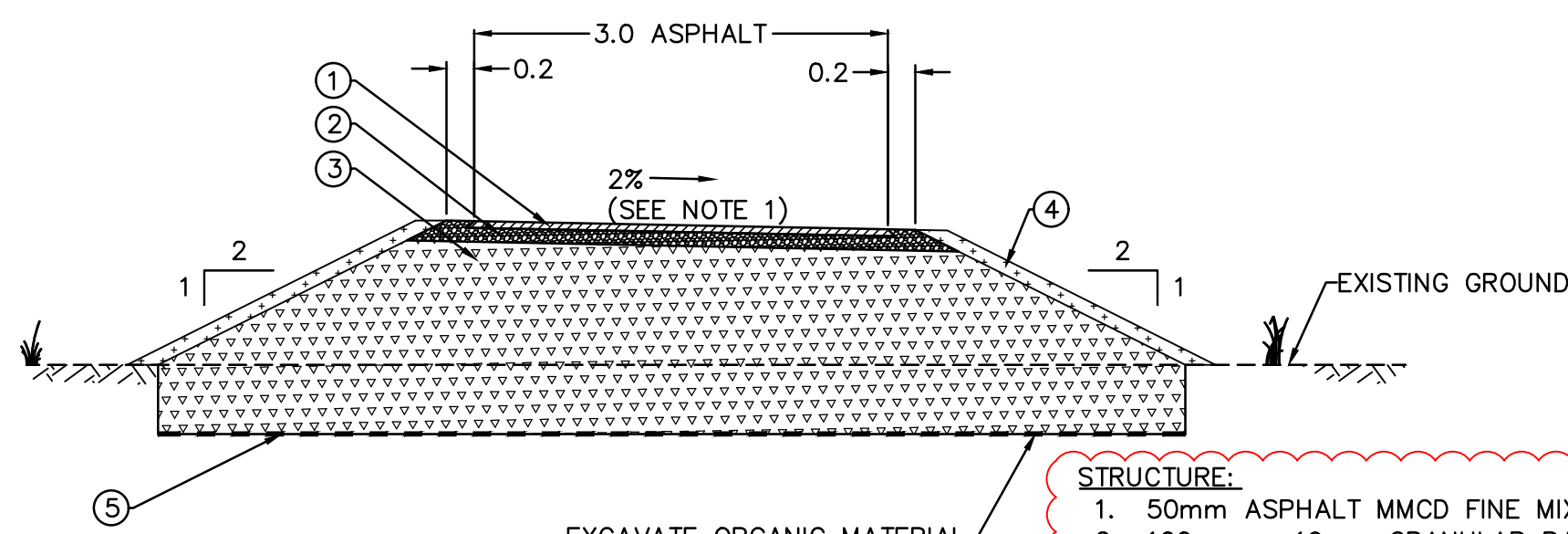


TYPICAL TRAIL FILL SECTION
ORGANIC SHOULDER
1:50

STA 0+195 TO STA 0+217.5
STA 0+450 TO STA 0+528

- STRUCTURE:
- 50mm ASPHALT MMCD FINE MIX
 - 100mm - 19mm GRANULAR BASE
 - MIN 450mm - 75mm PIT RUN
 - SALVAGED ORGANICS MIN 150mm THICK AND WOOD DEBRIS PER OEM. ONLY WOOD DEBRIS/ORGANICS RESTRICTION IS NOT TO IMPEDE DRAINAGE. SEE ENVIRONMENTAL DRAWINGS EN-01 TO EN-04 FOR DETAILS.
 - COMPOSITE GEOGRID TE-BXC30 OR APPROVED EQUIVALENT (NO COMBI-GRID REQUIRED FROM STA 0+450 TO STA 0+528)
 - GEOTECHNICALLY APPROVED UNDISTURBED SUBGRADE
 - SLOPE/EMBANKMENT HEIGHT LESS THAN 2m
- REVISED COMBIGRID

- NOTES:
- CROSS FALL DIRECTION VARIES.

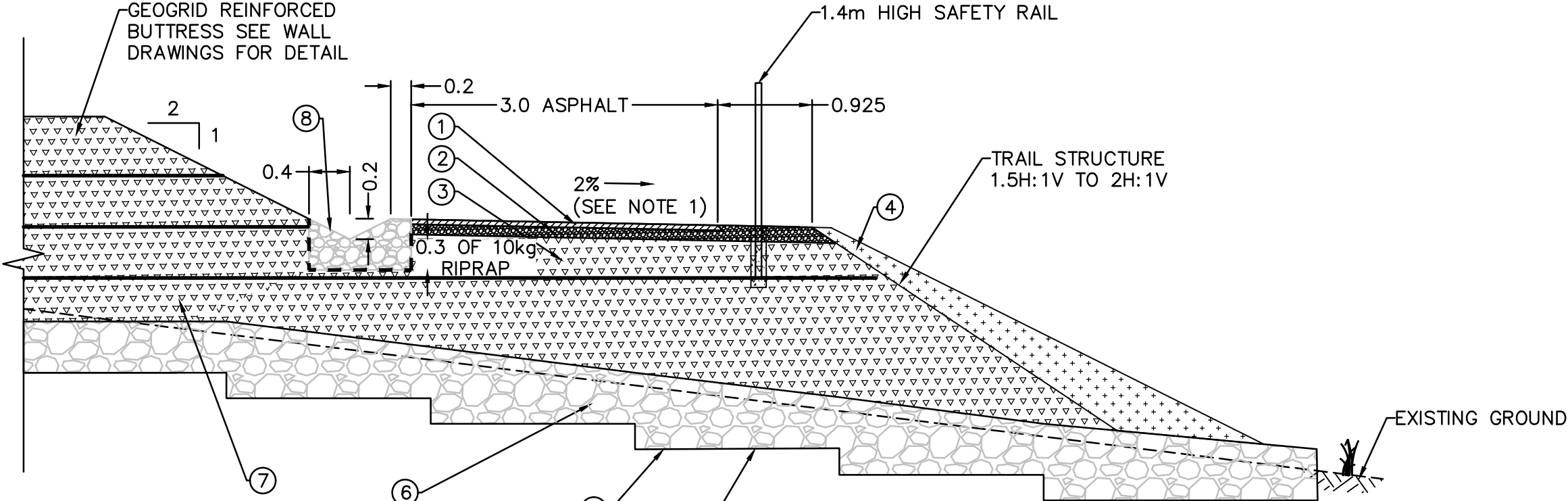


TYPICAL TRAIL FILL SECTION
SLOPE/EMBANKMENT < 2m HIGH
1:50

STA 0+410 TO STA 0+450

- STRUCTURE:
- 50mm ASPHALT MMCD FINE MIX
 - 100mm - 19mm GRANULAR BASE
 - MIN 450mm - 75mm PIT RUN
 - SALVAGED ORGANICS MIN 150mm THICK AND WOOD DEBRIS PER OEM. ONLY WOOD DEBRIS/ORGANICS RESTRICTION IS NOT TO IMPEDE DRAINAGE. SEE ENVIRONMENTAL DRAWINGS EN-01 TO EN-04 FOR DETAILS.
 - GEOTECHNICALLY APPROVED UNDISTURBED SUBGRADE
 - SLOPE/EMBANKMENT HEIGHT LESS THAN 2m
- REMOVED COMBIGRID

- NOTES:
- CROSS FALL DIRECTION VARIES.

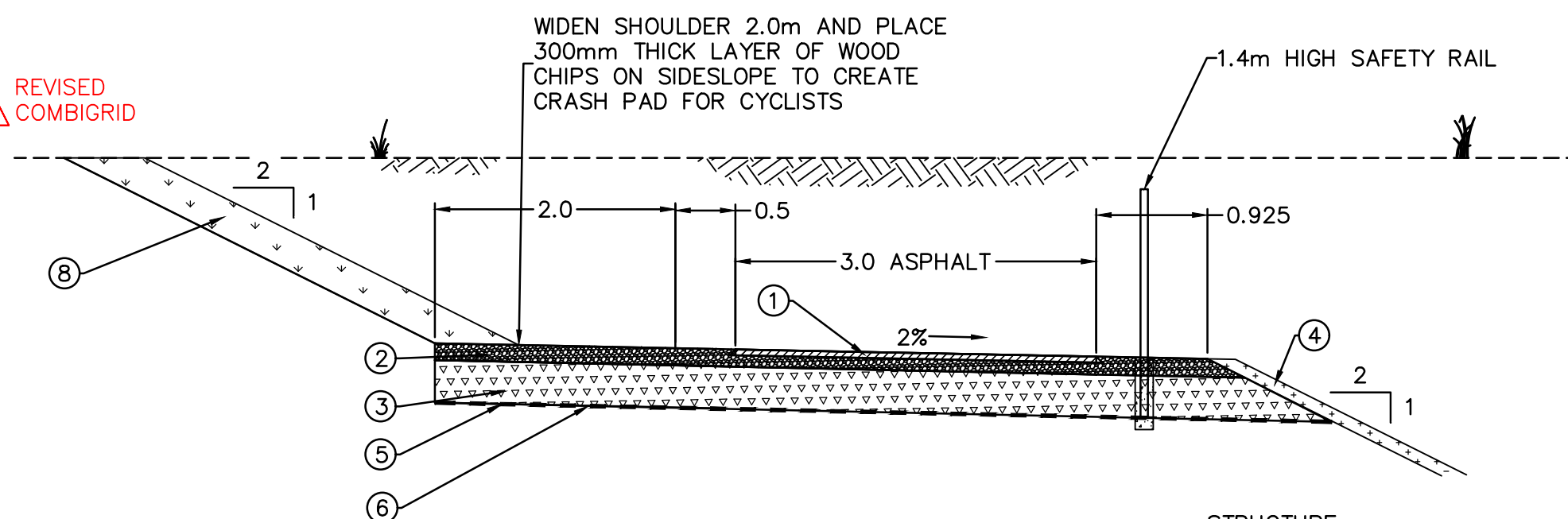


TYPICAL TRAIL FILL SECTION WITH BUTTRESS
1:50

STA 0+250 TO STA 0+280

- STRUCTURE:
- 50mm ASPHALT MMCD FINE MIX
 - 100mm - 19mm GRANULAR BASE
 - MIN 450mm - 75mm CRUSHED GRANULAR SUBBASE
 - SALVAGED ORGANICS AND WOOD DEBRIS PER OEM
 - IF ORGANICS SLOPE STEEPER THAN 2H:1V - LIMIT THICKNESS TO LESS THAN 200mm, SECURE WITH ECB AND LIMIT WOOD DEBRIS
 - IF ORGANICS SLOPE IS 2H:1V OR GENTLER - THICKNESS AND WOOD DEBRIS PER OEM, EXTENSIVE WOOD DEBRIS IS GEOTECHNICALLY ACCEPTABLE
 - SEE ENVIRONMENTAL DRAWINGS EN-01 TO EN-04 FOR DETAILS.
 - GEOTECHNICALLY APPROVED UNDISTURBED SUBGRADE
 - LOCALLY TO INCLUDE DRAINAGE BLANKET
 - GEOGRID FROM BUTTRESS TO EXTEND BELOW TRAIL
 - CLASS 10kg RIPRAP

- NOTES:
- CROSS FALL DIRECTION VARIES.



TYPICAL TRAIL CUT SECTION WITH CRASH PAD
1:50

STA 0+333 TO STA 0+340

- STRUCTURE:
- 50mm ASPHALT MMCD FINE MIX
 - 100mm - 19mm GRANULAR BASE
 - 300mm - 75mm PIT RUN
 - SALVAGED ORGANICS MIN 150mm THICK AND WOODY DEBRIS PER OEM. EXTENSIVE WOOD DEBRIS IS ACCEPTABLE. SEE ENVIRONMENTAL DRAWINGS EN-01 TO EN-04 FOR DETAILS.
 - COMPOSITE GEOGRID TE-BXC30 OR APPROVED EQUIVALENT
 - GEOTECHNICALLY APPROVED UNDISTURBED SUBGRADE
 - NON WOVEN GEOTEXTILE ARMTEC 200 OR APPROVED EQUIVALENT
 - 300mm - WOOD CHIPS

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1	REVISED REST AREAS	21/03/10
0	ISSUED FOR TENDER	21/02/18
Revision/	Description/Description	Date/Date

Client/client		
	Parks Canada Agency	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet	
TOFINO	
PACIFIC RIM NATIONAL PARK RESERVE	
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"Going in the right direction on the trail"	

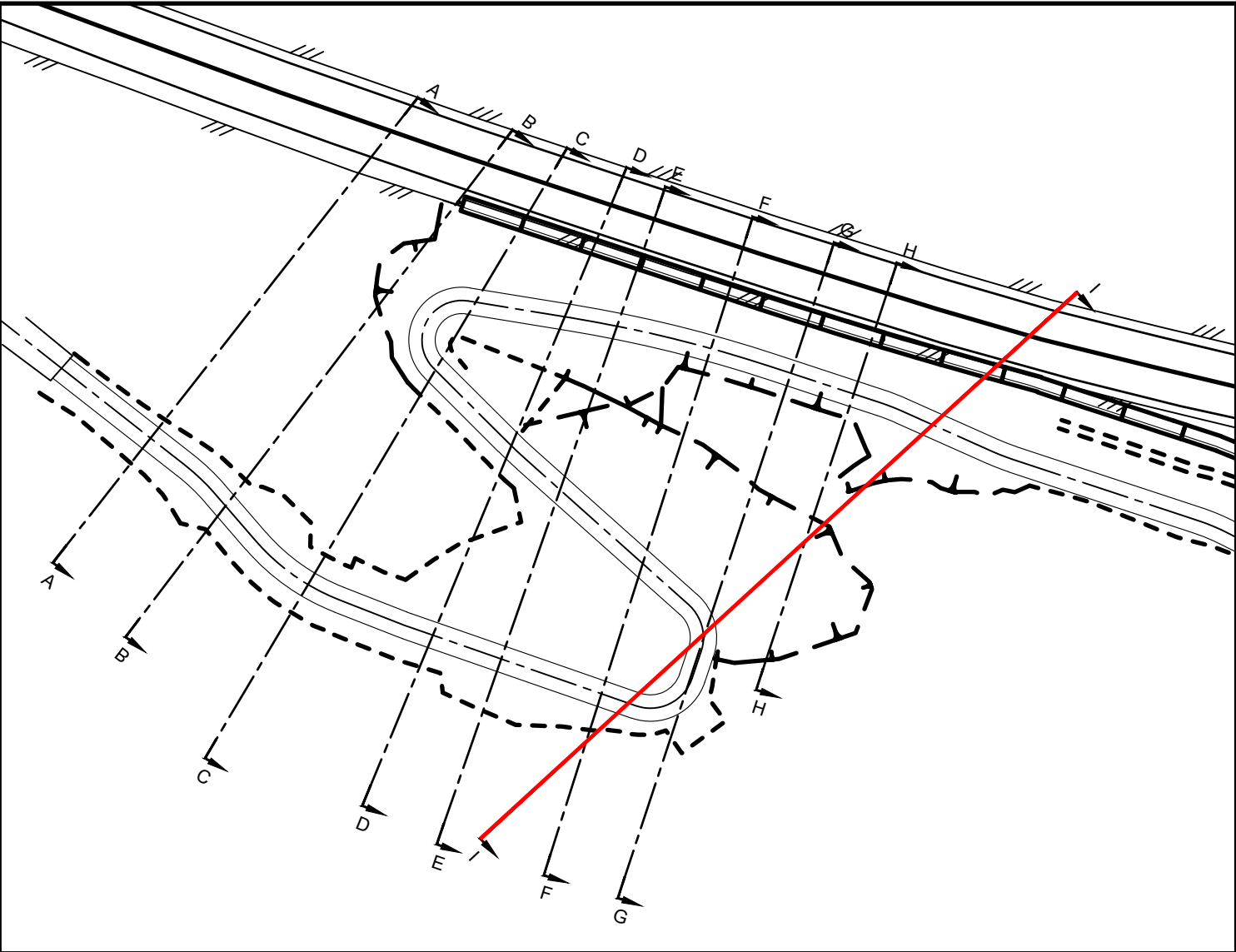
Consultant Signature Only	
Designed by/Concept par DARRYL FUREY / ANDREW KWIATKOWSKI	
Drawn by/Dessiné par MICHAEL GIANG	
PCA Project Manager/Technical Authority Administrateur de Projets APC JACKIE HICKS	

Drawing title/Titre du dessin	
WAYII AREA TRAIL DESIGN	
TYPICAL SECTIONS 1	

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
PCA #1522	X-01 OF	1

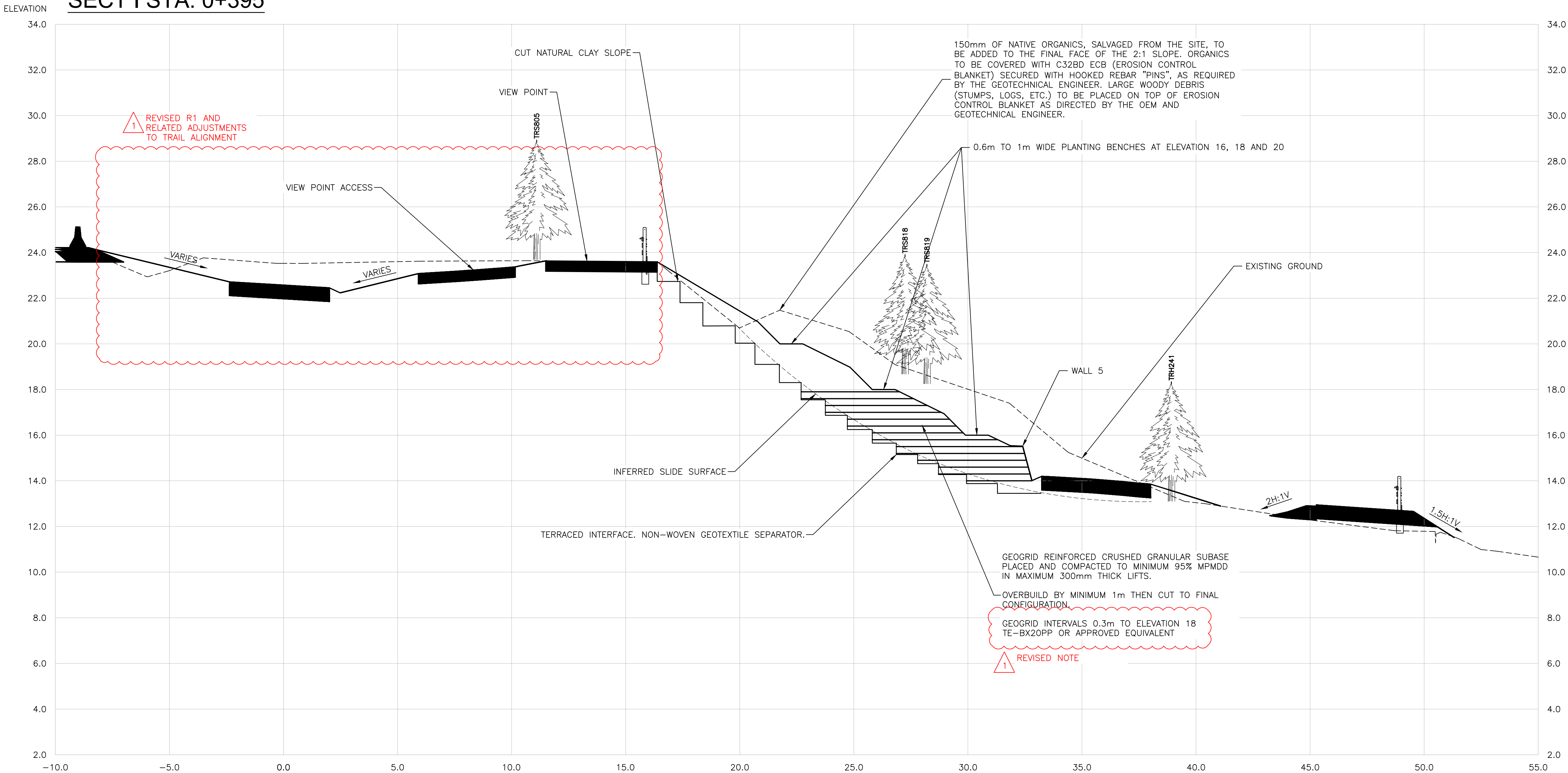


PARSONS



KEY PLAN
NTS

SECT I STA: 0+395



NOTE:
1. FOR DETAILS ON ORGANICS, EROSION CONTROL BLANKET AND WOODY DEBRIS PLACEMENT ON SIDESLOPE SEE ENVIRONMENTAL DRAWING EN-01 TO EN-04.

SECTION
1:100 HOR - 1:100 VER

1	REVISED R1 AND RELATED ADJUSTMENTS TO TRAIL ALIGNMENT	21/03/10
0	ISSUED FOR TENDER	21/02/18

Revision/Revision	Description/Description	Date/Date
1	REVISED R1 AND RELATED ADJUSTMENTS TO TRAIL ALIGNMENT	21/03/10
0	ISSUED FOR TENDER	21/02/18

Client/client	Parks Canada Agency L'Agence Parcs Canada Western and Northern Region Ouest et Nord du Canada
Project title/Titre du projet	TOFINO PACIFIC RIM NATIONAL PARK RESERVE ʔapsc̓iik tašii (Ups-cheek ta-shie) "Going in the right direction on the trail"

Consultant Signature Only	Designed by/Concept par DARRYL FUREY / ANDREW KWIATKOWSKI Drawn by/Dessiné par MICHAEL GIANG PCA Project Manager/Technical Authority Administrateur de Projets APC JACKIE HICKS
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Drawing title/Titre du dessin	WAYII AREA TRAIL DESIGN SLOPE SECTION I STA 0+395
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Project No./No. du projet PCA #1522	Sheet/Fauille X-11 OF	Revision no./ Révision no. 1
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PARSONS



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1	REVISED REST AREAS	21/03/10
0	ISSUED FOR TENDER	21/02/18

Revision/ Revision	Description/Description	Date/Date
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Client/client

	Parks Canada Agency	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet
TOFINO
PACIFIC RIM
NATIONAL PARK RESERVE
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(Ups-cheek ta-shée)
**“Going in the right
direction on the trail”**

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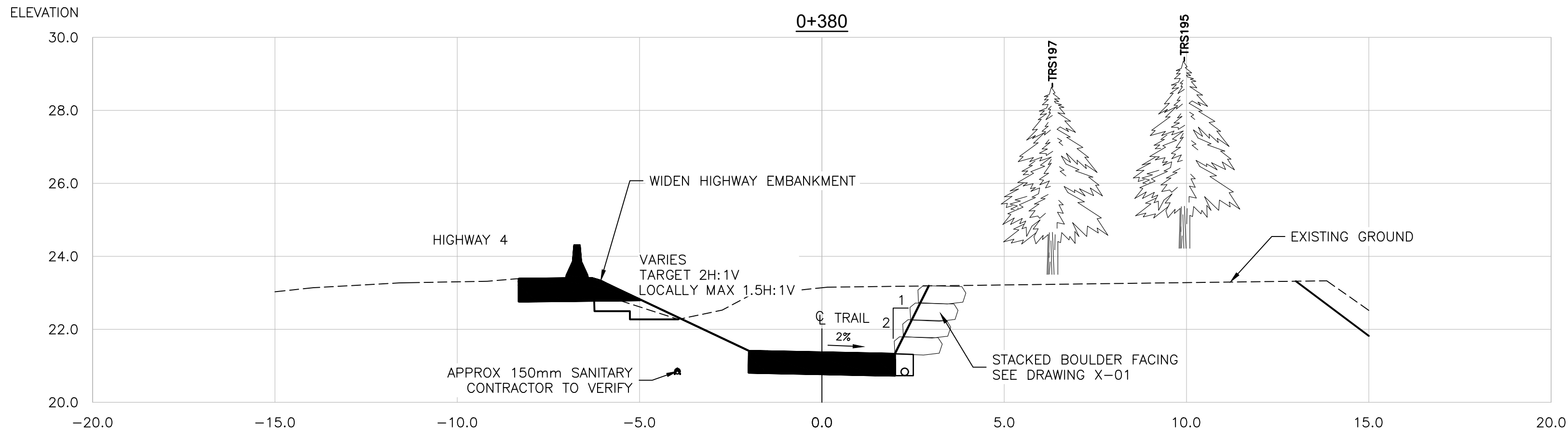
Designed by/Concept par
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par
MICHAEL GIANG

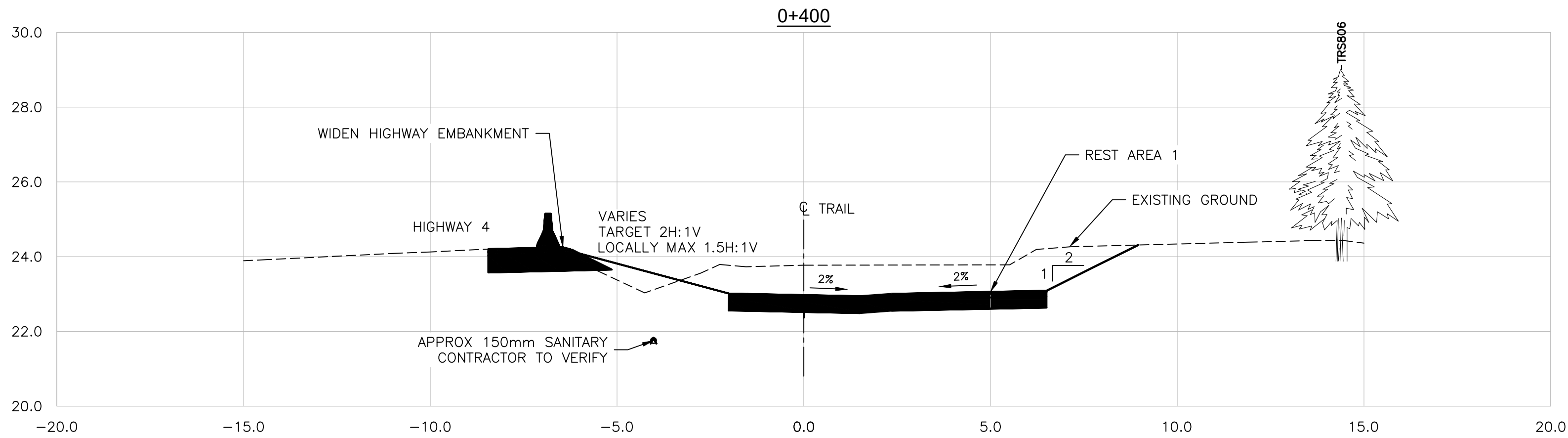
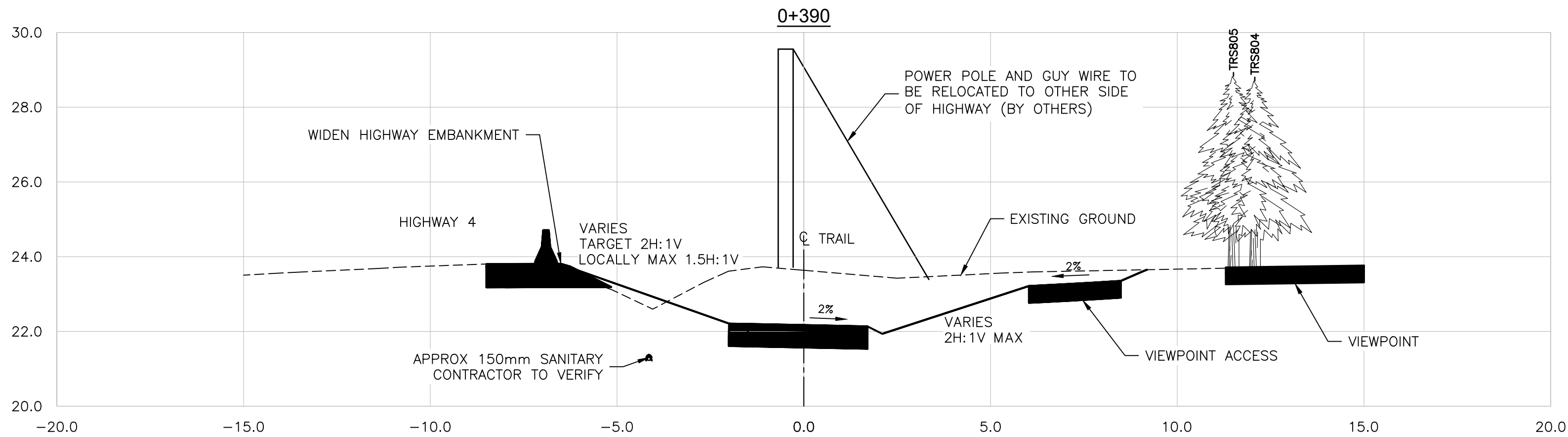
PCA Project Manager/Technical Authority
Administrateur de Projets APC
JACKIE HICKS

Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
TRAIL SECTIONS
STA 0+380 TO STA 0+400

Project No./No. du projet PCA #1522	Sheet/ Feuille X-20 OF	Revision no./ La Révision no. 1
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1. REVISED R1 AND
RELATED ADJUSTMENTS
TO TRAIL ALIGNMENT



NOTE:
1. FOR DETAILS ON ORGANICS, EROSION CONTROL BLANKET AND WOODY DEBRIS PLACEMENT ON
SIDESLOPE SEE ENVIRONMENTAL DRAWING EN-01 TO EN-04.

SECTION
1:100 HOR — 1:100 VER



WSP

Revision/ Revision	Description/Description	Date/Date
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Drawn by/Dessiné par
MICHAEL GIANG


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PARSONS



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1	REVISED REST AREAS	21/03/10
0	ISSUED FOR TENDER	21/02/18

Revision/	Description/Description	Date/Date
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Client/client		
	Parks Canada Agency	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet
TOFINO
PACIFIC RIM NATIONAL PARK RESERVE
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(Ups-cheek ta-shie)
“Going in the right direction on the trail”

Consultant Signature Only

Designed by/Concept par
DARRYL FUREY / ANDREW KWIATKOWSKI

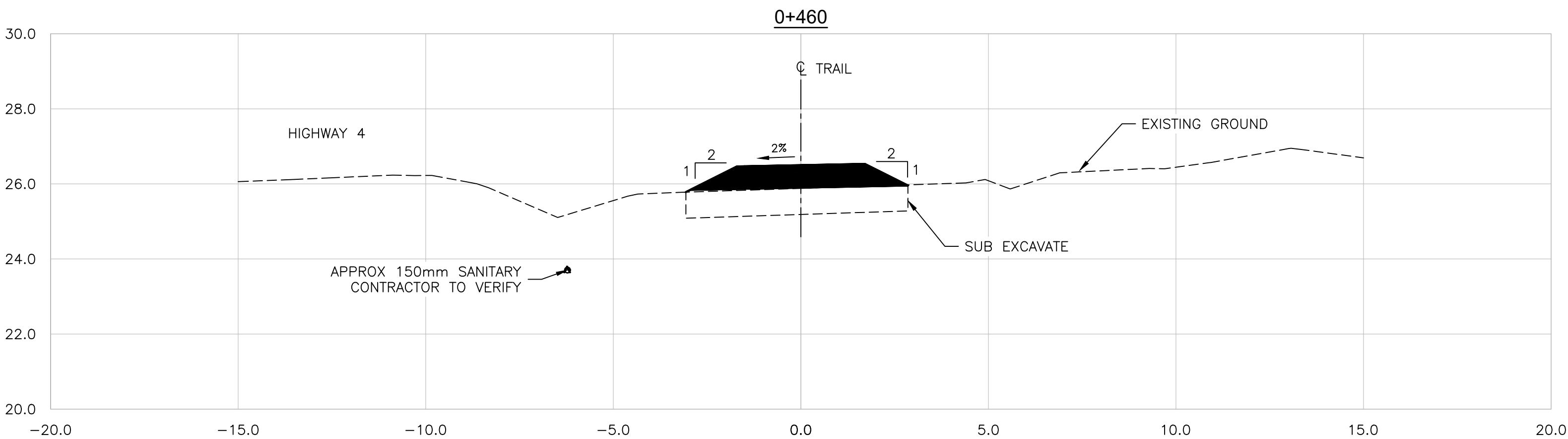
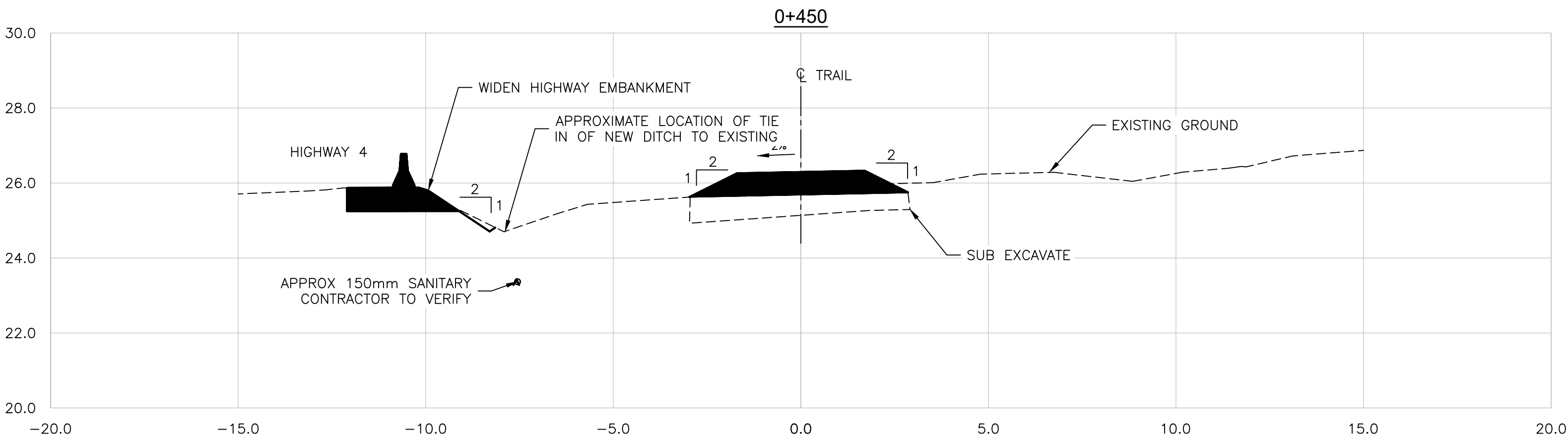
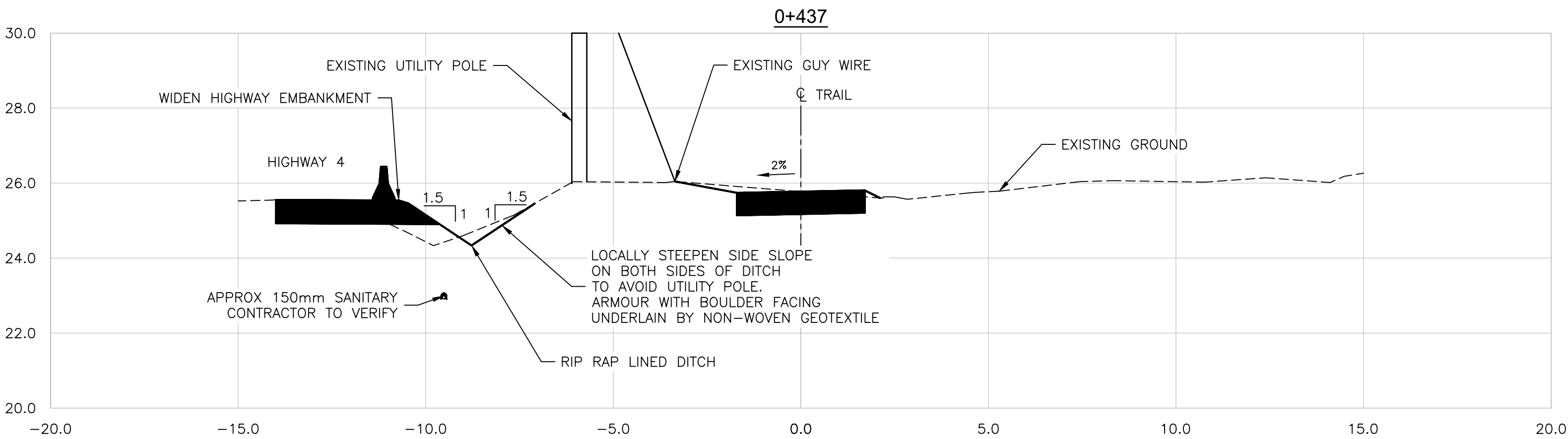
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MICHAEL GIANG

PCA Project Manager/Technical Authority
Administrateur de Projets APC
JACKIE HICKS

Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
TRAIL SECTIONS STA 0+437 TO STA 0+460

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
PCA #1522	X-22	1
	OF	

1
REVISED R1 AND
RELATED ADJUSTMENTS
TO TRAIL ALIGNMENT



NOTE:
1. FOR DETAILS ON ORGANICS, EROSION CONTROL BLANKET AND WOODY DEBRIS PLACEMENT ON
SIDESLOPE SEE ENVIRONMENTAL DRAWING EN-01 TO EN-04.

SECTION
1:100 HOR — 1:100 VER




PARSONS



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1	REVISED REST AREAS	21/03/10
0	ISSUED FOR TENDER	21/02/18

Revision/	Description/Description	Date/Date
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Client/client

	Parks Canada Agency	L'Agence Parcs Canada
	Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet

TOFINO

PACIFIC RIM
NATIONAL PARK RESERVE

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(Ups-cheek ta-shee)

“Going in the right
direction on the trail”

Consultant Signature Only

Designed by/Concept par
DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessiné par
MICHAEL GIANG

PCA Project Manager/Technical Authority
Administrateur de Projets APC
JACKIE HICKS

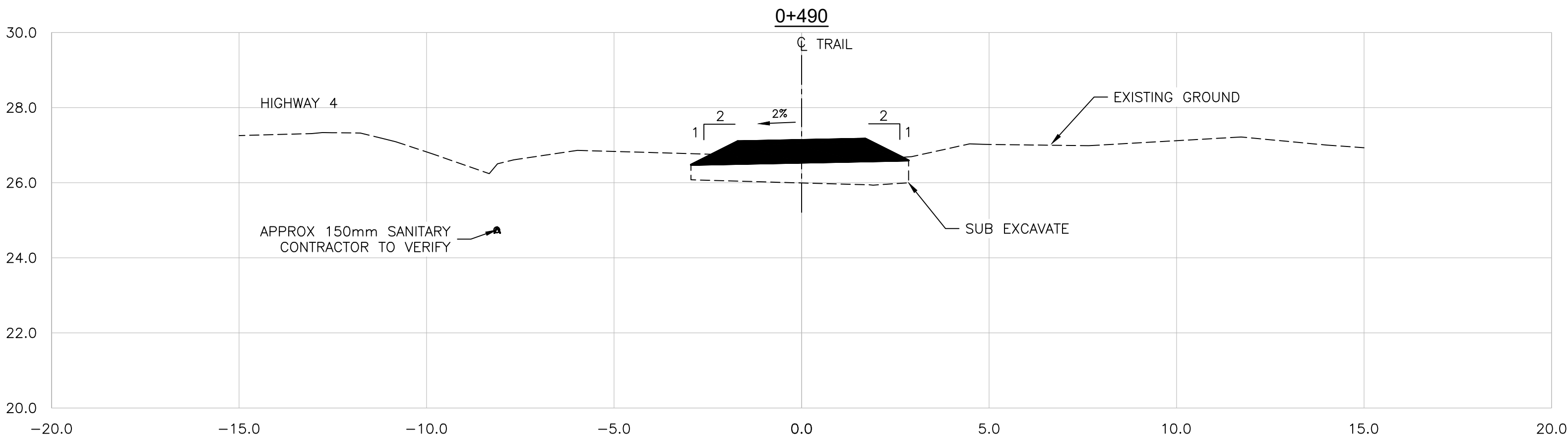
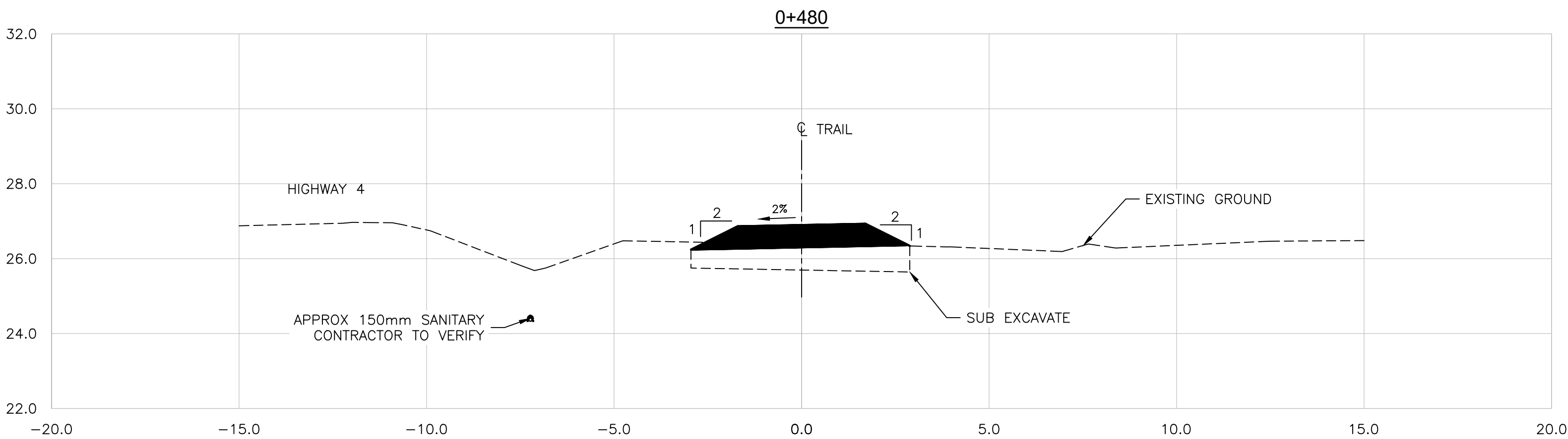
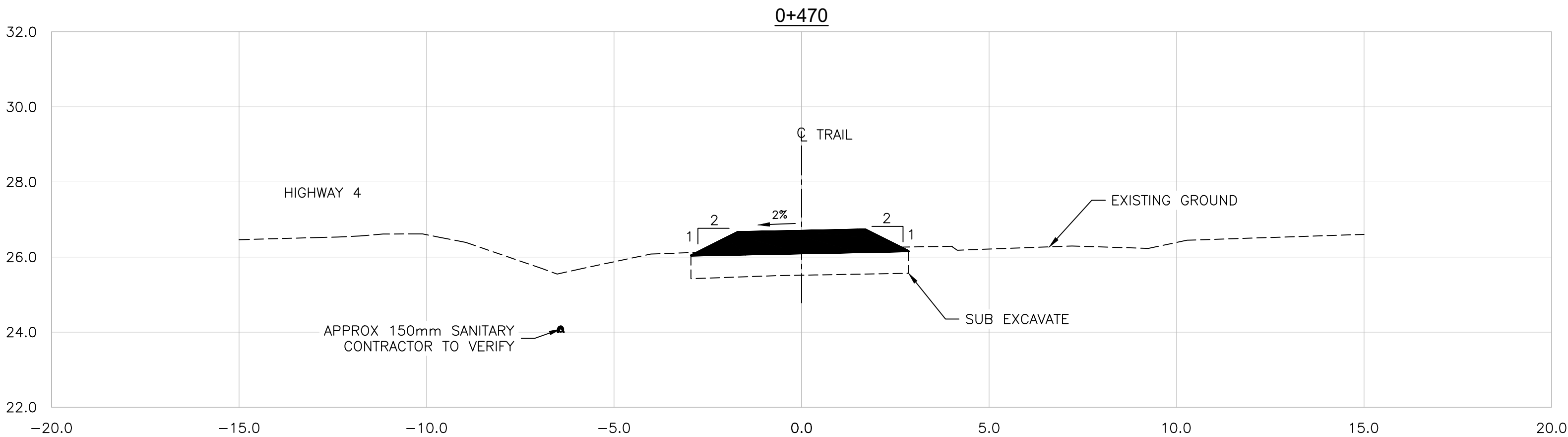
Drawing title/Titre du dessin

WAYII AREA TRAIL DESIGN

TRAIL SECTIONS
STA 0+470 TO STA 0+490

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
PCA #1522	X-23 OF	1

1
REVISED R1 AND
RELATED ADJUSTMENTS
TO TRAIL ALIGNMENT



NOTE:
1. FOR DETAILS ON ORGANICS, EROSION CONTROL BLANKET AND WOODY DEBRIS PLACEMENT ON
SIDESLOPE SEE ENVIRONMENTAL DRAWING EN-01 TO EN-04.

SECTION
1:100 HOR — 1:100 VER



Parks Canada Agency	L'Agence Parcs Canada
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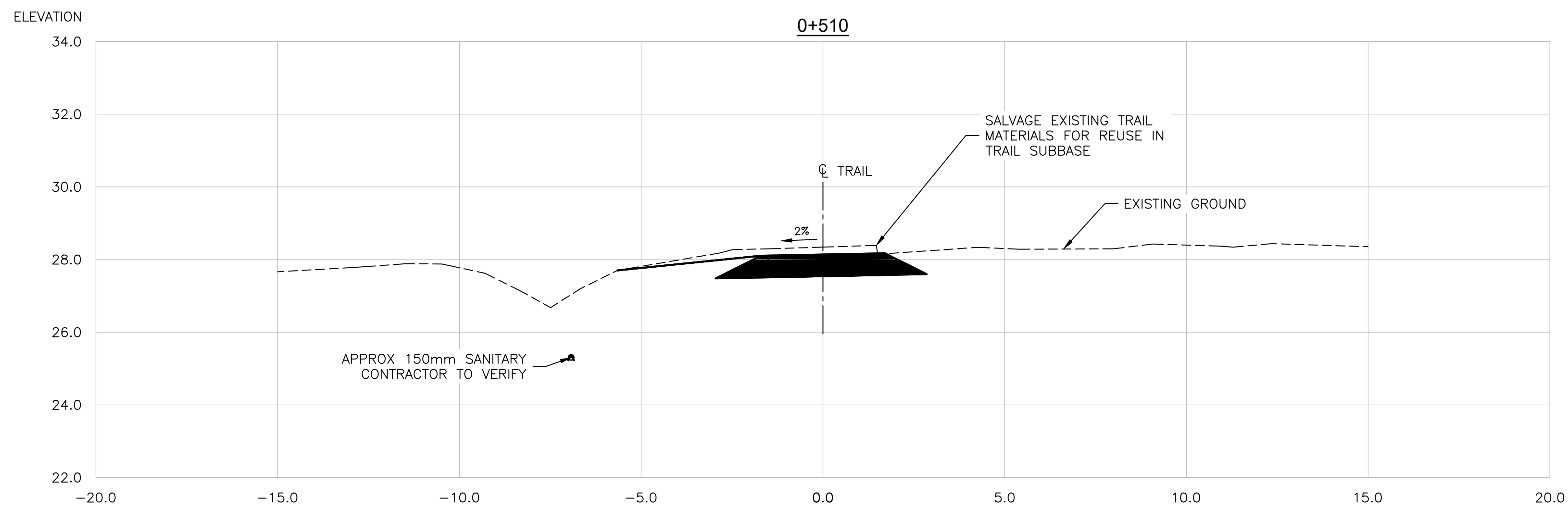
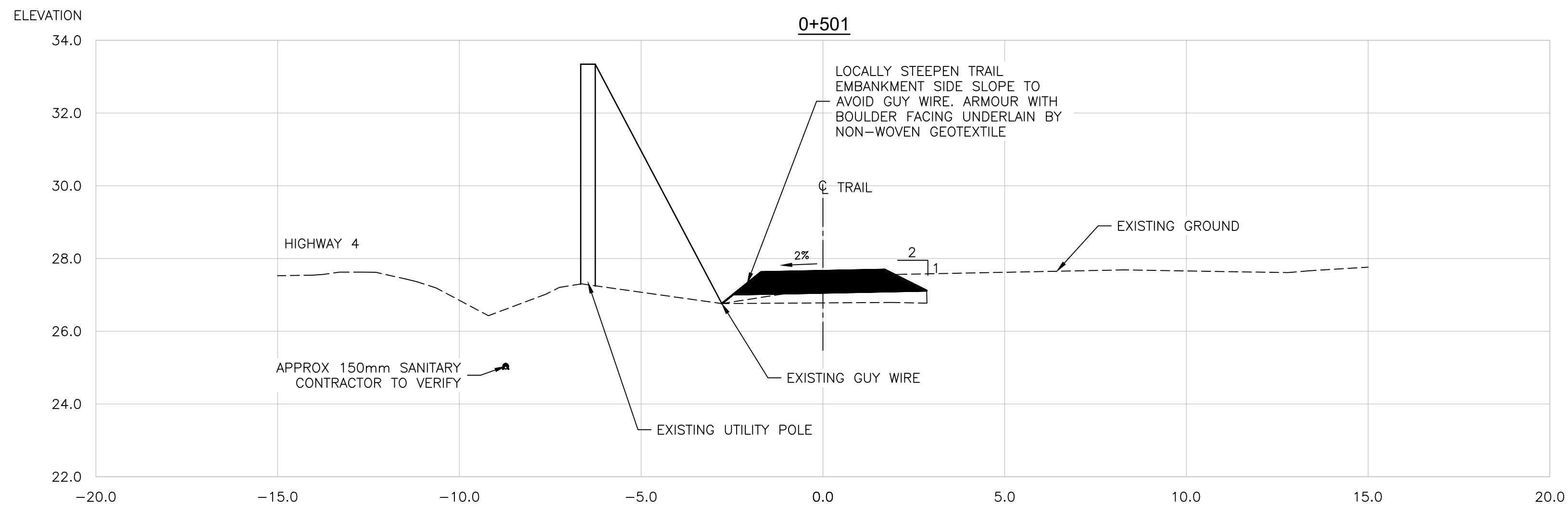
Client/client

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Agence Parcs Canada

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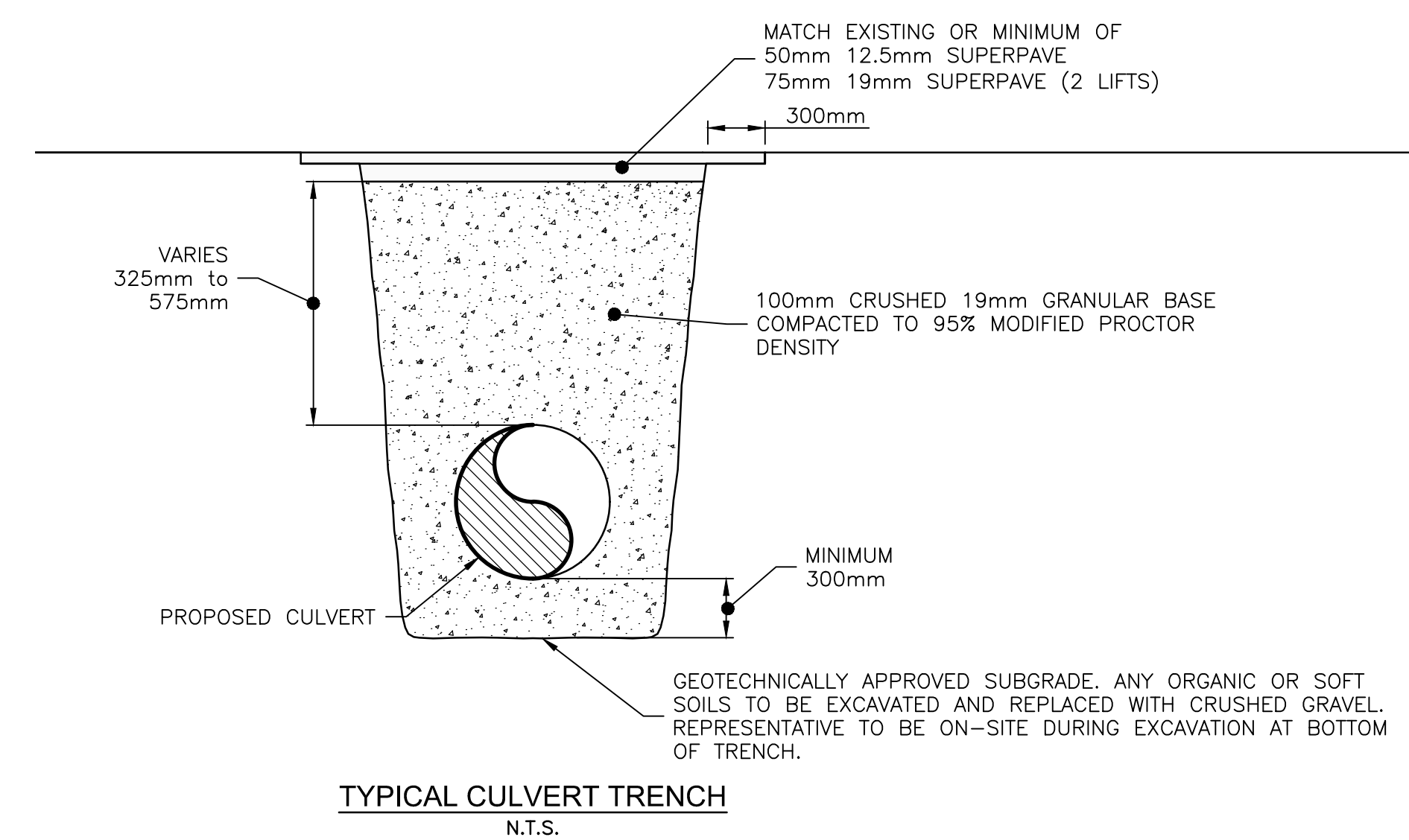
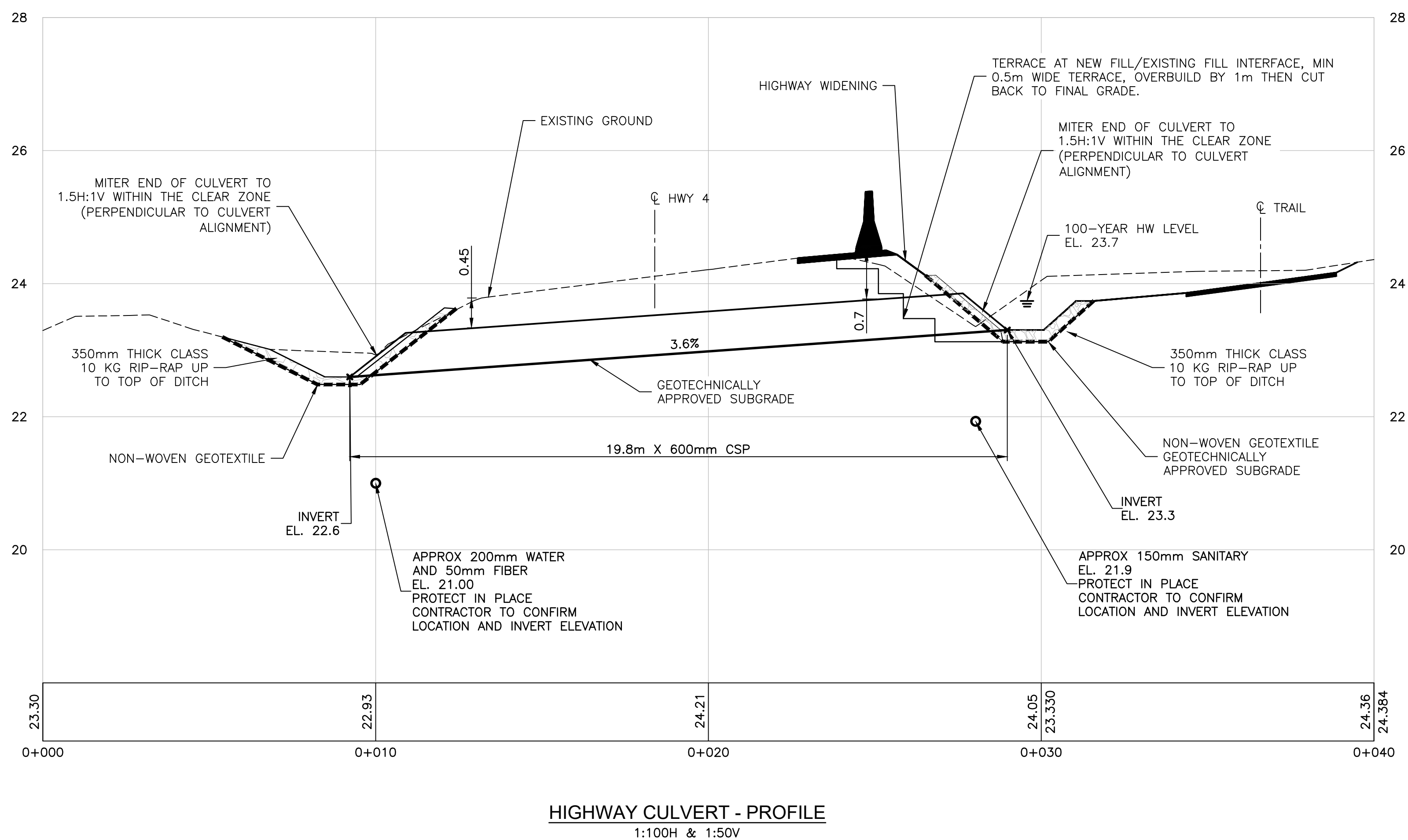
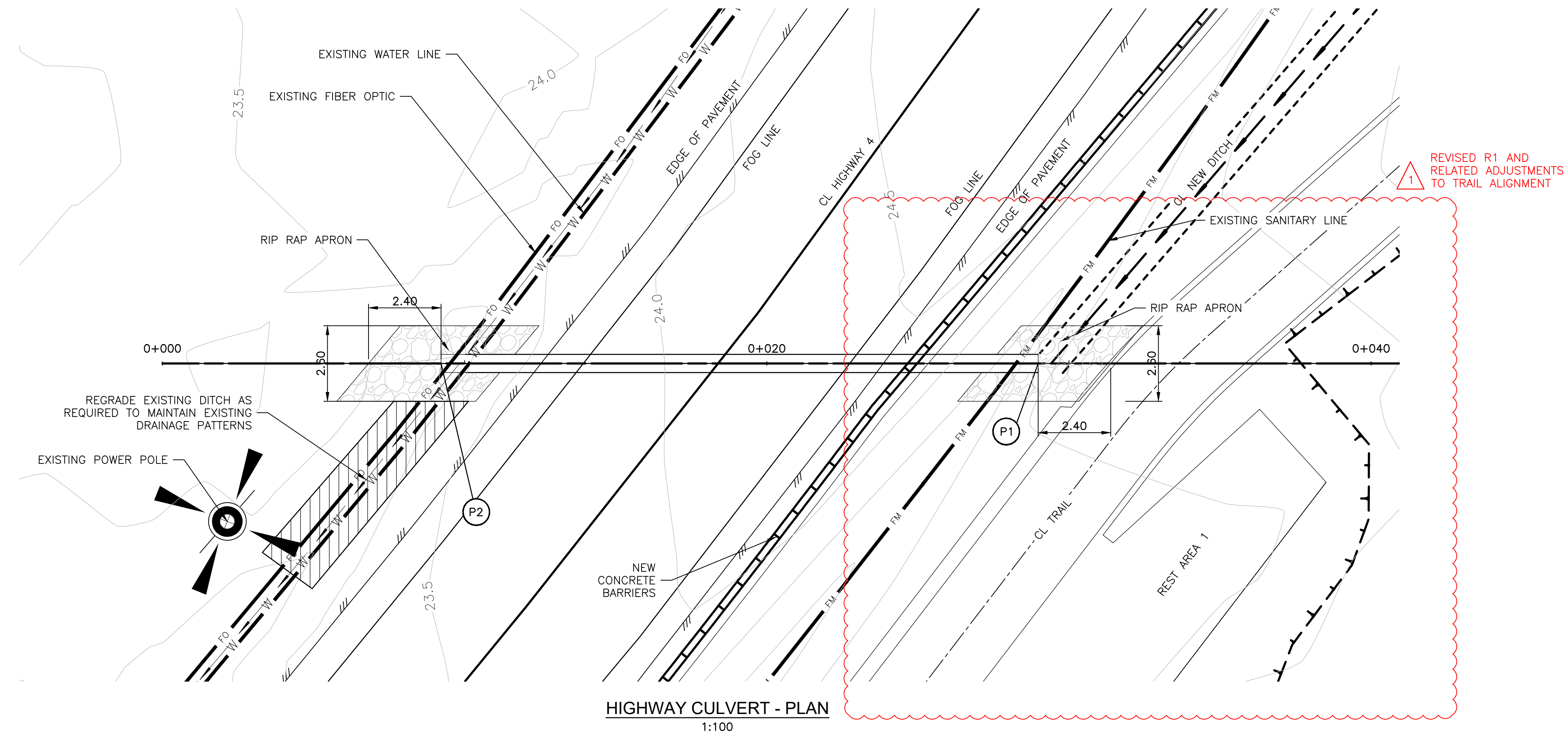
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POINT TABLE			
No.	NORTHING	EASTING	ELEVATION
P1	5438197.69	300088.33	23.30
P2	5438216.01	300080.91	22.59



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-	-----	----
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1	REVISED REST AREAS	21/03/10
0	ISSUED FOR TENDER	21/02/18
Revision/ Revision	Description/Description	Date/Date

Client/client	
 Parks Canada Agency	L'Agence Parcs Canada
Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet

TOFINO

PACIFIC RIM
NATIONAL PARK RESERVE

?apsciiik fasii
(Ups-cheek ta-shee)
"Going in the right
direction on the trail"

Consultant Signature Only
Designed by/Concept par NAVRATNA SHARMA / ANDREW KWIATKOWSKI
Drawn by/Dessine par MICHAEL GIANG
PCA Project Manager/Technical Authority Administrateur de Projets APC JACKIE HICKS

Drawing title/Titre du dessin

WAYII AREA TRAIL DESIGN

HIGHWAY CULVERT PLAN PROFILE
(CULVERT 4)

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
PCA #1522	D-01	1
	OF	



FOUNDATION PAD

6.

PLACE BI-AXIAL GEOGRID, TE BX20PP (OR APPROVED EQUIVALENT), AT MID-DEPTH OF FOUNDATION PAD. JOINTS BETWEEN GEOGRID PANELS TO BE OFFSET FROM UNDERLYING COMPOSITE GEOGRID.
1.

EXCAVATE TO DEEPER OF NON-ORGANIC SUBGRADE OR ELEVATION ON DRAWINGS.
2.

NOTE THAT THE LATERAL EXTENT OF THE FOUNDATION PADS MAY NEED TO BE LOCALLY MODIFIED ADJACENT TO TREES. GEOTECHNICAL REVIEW AND APPROVAL IS REQUIRED PRIOR TO IMPLEMENTING MODIFICATIONS. OEM TO BE CONSULTED PRIOR TO EXCAVATION WITHIN 5m OF TREES (LATERALLY).
3.

GEOGRID REINFORCED FOUNDATION PAD TO EXTEND MINIMUM 0.5m BEYOND THE FACE OF THE STRUCTURAL PART OF WALL (I.E. TO APPROXIMATE BACK OF FACING CELL THAT IS TO BE FILLED WITH ORGANICS).
4.

PLACE COMPOSITE GEOGRID (TE-BXC30 OR APPROVED EQUIVALENT) ON GEOTECHNICALLY APPROVED, NON-ORGANIC SUBGRADE, EXPECTED TO BE COMPACT SAND OR FIRM CLAY. COMPACT SUBGRADE IF REQUESTED BY THE OWNER'S GEOTECHNICAL ENGINEER.
5.

FOUNDATION PAD TO BE 75mm CRUSHED GRANULAR SUBBASE PLACED IN MINIMUM 2 LIFTS AND COMPACTED TO A MINIMUM 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY (MPMDD) USING A PROCEDURE APPROVED BY THE OWNER'S GEOTECHNICAL ENGINEER.
7.

A VENEER (MAX 50mm THICKNESS) OF GRANULAR BASE MAY BE USED FOR FINE GRADING AT UNDERSIDE OF ENVIROGRID CELLS.
8.

ARCHAEOLOGICALLY SENSITIVE SOILS MAY BE PRESENT. ALL EXCAVATION, CLEARING, AND GRUBBING WORK IS TO BE COORDINATED WITH OAM IN ADVANCE OF WORK AS OUTLINED IN THE PROJECT SPECIFICATIONS.
9.

CONTRACTOR IS TO LOCATE ALL UTILITIES PRIOR TO EXCAVATION. INFORMATION SHOWN ON DRAWINGS IS APPROXIMATE AND IS BASE ON AVAILABLE BACKGROUND INFORMATION PROVIDED BY OTHERS.
10.

FOLLOW WORKSAFE BC GUIDELINES FOR TEMPORARY EXCAVATIONS.
11.

IMPLEMENT SEDIMENT AND EROSION CONTROLS IN ACCORDANCE WITH CONTRACT

ENVIROGRID RETAINING WALL

1.

THE MECHANICALLY STABILIZED EARTH (MSE) WALL SYSTEM IS TO BE ENVIROGRID EGA40

a.

CELL APERTURE: 508 mm X 475 mm

b.

CELL PANELS: 200 mm HIGH x 2.56 m LONG x 0.95 m WIDTH (I.E. EMBEDMENT INTO WALL)

c.

ENVIROGRID CELLS TO SUPPLIED BY PARKS
2.

UNIAXIAL GEOGRID IS TO CONSIST OF TITAN ENVIRONMENTAL TE-UX20 PET GEOGRID (SUPPLIED BY PARKS).

a.

ULTIMATE TENSILE STRENGTH (Tult): 50 kN/m LTDS = 24 kN/m (PER MANUFACTURER)

b.

RFcr = 1.46

c.

RFd = 1.1

d.

RFid = 1.3

e.

COEFFICIENTS OF INTERACTION IN DIRECT SLIDING AND PULL-OUT: 0.85
3.

REINFORCED & RETAINED SOIL

a.

UNIT WEIGHT 20 kN/m³

b.

DESIGN VALUE OF INTERNAL FRICTION: 36 DEGREES
4.

WALL HEIGHTS: 1.5 to 4.6 m

5.

FACING BATTER: 14 DEGREES RELATIVE TO VERTICAL
6.

MINIMUM TOE EMBEDMENT: 0.5 m
7.

SEISMIC DESIGN

a.

EXCLUDED FOR GLOBAL STABILITY. REFER TO GEOTECHNICAL REPORT FOR INFORMATION

b.

INTERNAL WALL DESIGN BASED ON 0.28g (1:475 YEAR DESIGN EARTHQUAKE)
8.

LIVE LOAD: 5 kPa
9.

WALL DESIGNED IN GENERAL ACCORDANCE WITH BC MOTI SUPPLEMENT TO CANADIAN HIGHWAY BRIDGE DESIGN CODE (CHBDC) S6-14, CHBDC S6-14 AND AASHTO LRFD METHOD.
10.

WATER TABLE ASSUMED AT BASE OF WALL (I.E. FULLY DRAINED).
11.

SUBGRADE AT BASE OF FOUNDATION PAD: FIRM CLAY AND/OR COMPACT SAND
12.

CONSTRUCT PER MANUFACTURER'S INSTRUCTIONS. A TITAN ENVIRONMENTAL REPRESENTATIVE IS TO BE ON SITE AT THE START OF WALL CONSTRUCTION. CONTRACTOR IS TO COORDINATE.
13.

GEOGRID LENGTHS ARE MEASURED RELATIVE TO THE FRONT OF THE STRUCTURAL COMPONENT OF THE WALL (I.E. MIDDLE OF OUTER ENVIROGRID PANEL, ALSO BACK OF ORGANIC FACING CELL). IN GENERAL, UNIAXIAL GEOGRID LAYERS ARE TO BE INSTALLED AT APPROXIMATELY 0.4m VERTICAL SPACING (I.E. EVERY SECOND ROW VERTICALLY)
14.

FOR BACK-TO-BACK WALLS (I.E. WALL 1 & WALL 2), WALLS ARE INDEPENDENT. UNIAXIAL GEOGRID IS NOT TO CONNECT FROM WALL TO WALL. GEOGRID IS TO ALTERNATE ON DIFFERENT TIERS. THE FIRST LAYER OF UNIAXIAL GEOGRID ON THE OCEAN SIDE OF WALL 1 IS TO BE DIRECTLY BELOW BELOW FIRST ROW OF CELLS.
15.

BACKFILL ENVIROGRID CELLS WITH 19mm CRUSHED GRANULAR BASE, COMPACTED TO MINIMUM 95% MPMDD (NOTE THAT THIS OVERRIDES THE MANUFACTURER'S MINIMUM). RIDE ON COMPACTION EQUIPMENT IS NOT TO BE USED WITHIN 1m OF THE FACE OF THE WALL. A 1000LB PLATE COMPACTOR IS ACCEPTABLE WITHIN 1m OF THE FACE OF THE WALL.
16.

FILL THE OUTER CELL THE ENVIROGRID PANELS WITH ORGANICS THAT ARE APPROVED BY PARKS AND OEM. PLANT PER PARKS & OEM. FILL WITH ORGANIC SOIL AT EACH LIFT (I.E. NOT AT END OF WALL CONSTRUCTION). ADD WOODY DEBRIS PER OEM AND GEOTECHNICAL ENGINEER. REFER TO ENVIRONMENTAL DRAWING SET (EN-*) AND SPECIFICATION (01 35 43) FOR DETAILS REGARDING PLANTING AND RESTORATION
17.

ENVIROGRID EGA40 PANELS ARE TO BE STEPPED BACK AT EACH LAYER TO CREATE A 75 DEGREE (OR GENTLER) SLOPED FACE.
18.

THE HAND RAIL POST FOOTING SLEEVE IS TO BE INSTALLED AT THE TIME OF WALL CONSTRUCTION. THE CONTRACTOR IS TO ENSURE A SMOOTH ALIGNMENT OF SLEEVES. CUTTING OF ENVIROGRID CELLS IS NOT PERMITTED. SLEEVES ARE 150mm DIAMETER RIGID PVC AND EXTEND MINIMUM 1m BELOW TOP OF ENVIROGRID CELLS (WHICH IS ABOUT 0.2m BELOW TRAIL ASPHALT SURFACE).
19.

WALL BACKFILL TO BE 75mm PIT RUN THAT IS PLACED AND COMPACTED IN 200mm THICK LIFTS (I.E. HEIGHT OF ENVIROGRID CELL) AND COMPACTED TO A MINIMUM 95% MPMDD. VERIFY DENSITIES WITH IN PLACE DENSITY TESTING.
20.

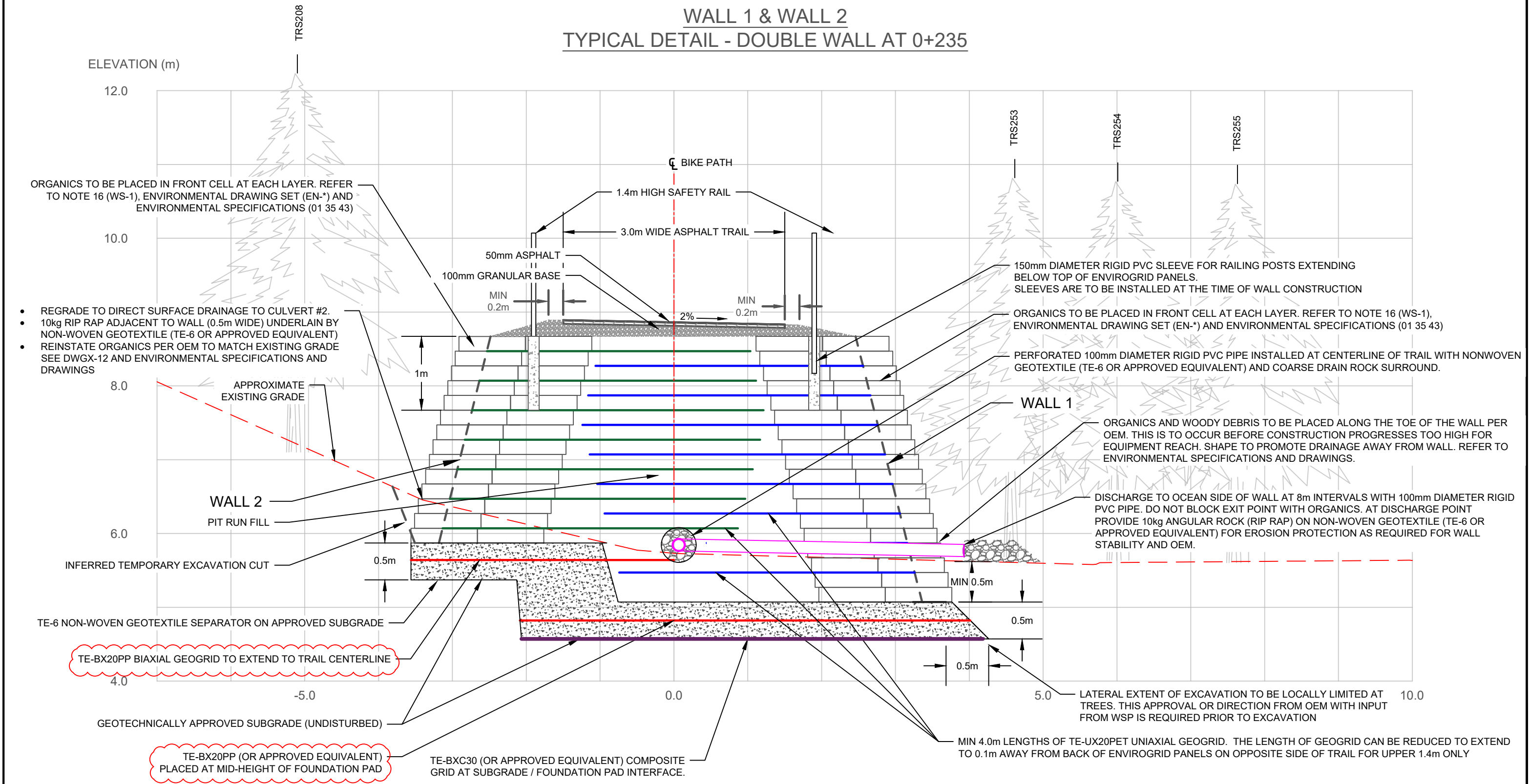
WALL CONSTRUCTION AND FILL PLACEMENT IS TO BE COMPLETED UNDER THE OBSERVATION OF WSP.
21.

WALL 3 CONSTRUCTION DETAIL IS TO BE PER THE DETAIL FOR WALL 5 SHOWN ON WD-4

LEGEND:

			PROJECT:		DATE:	
				UPSCHEEK TASHEE MULTI-USE PATHWAY	FEB 2021	
				WAYII AREA TRAIL DESIGN (ESCARPMENT)	DESIGN BY:	
				PACIFIC RIM NATIONAL PARK RESERVE, TOFINO, BC	DF	
			CLIENT:		DRAWN BY:	
				PARKS CANADA	BPK	
			TITLE:		CHECKED BY:	
				CONSTRUCTION NOTES - RETAINING WALL	DF	
					SCALE:	
					AS SHOWN	
					PROJECT No.:	
					191-08875-02	
					FIGURE NO.:	
					WD-1	

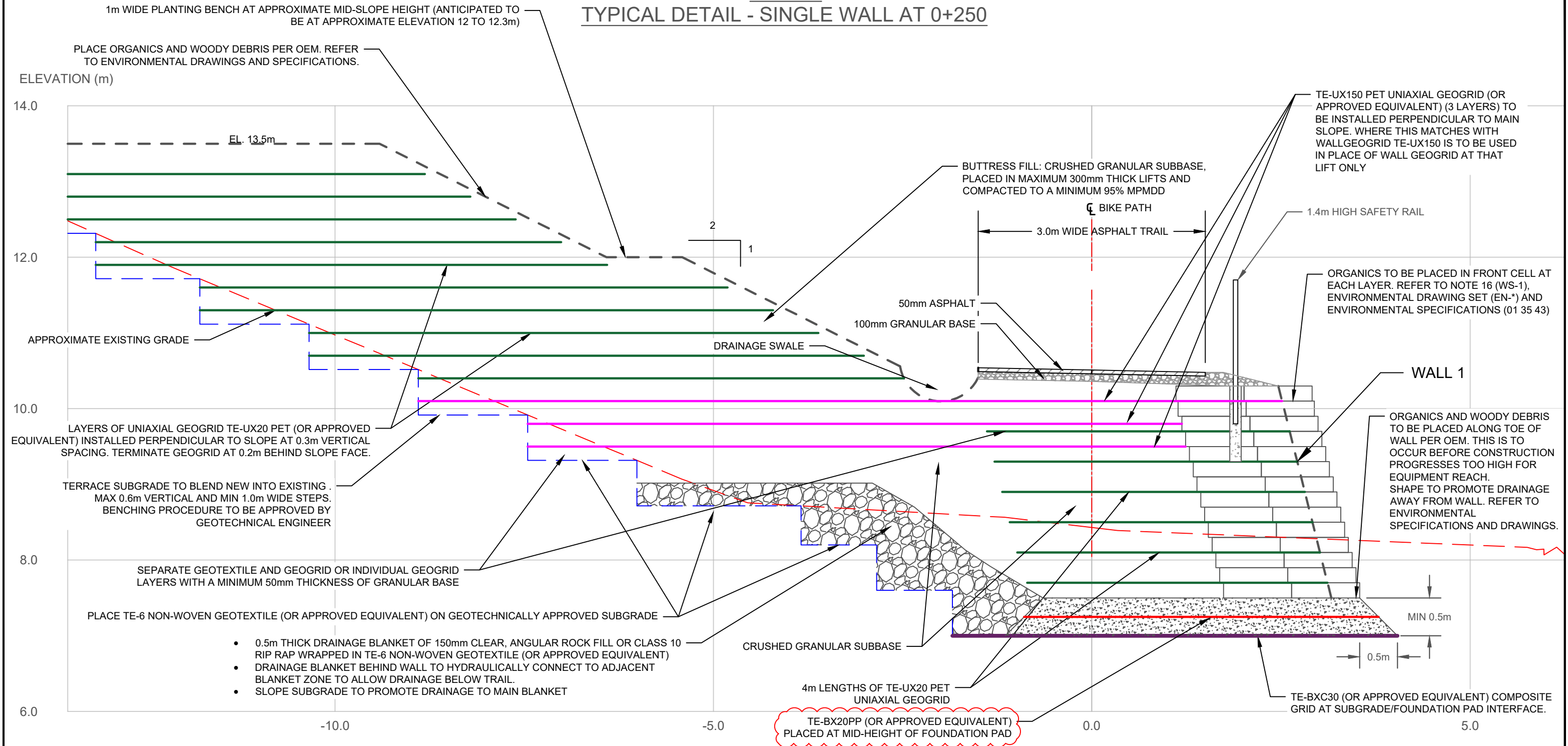
WALL 1 & WALL 2
TYPICAL DETAIL - DOUBLE WALL AT 0+235




LEGEND:			PROJECT:		DATE:
			UPSCHEEK TASHEE MULTI-USE PATHWAY		FEB 2021
			WAYII AREA TRAIL DESIGN (ESCARPMENT)		DESIGN BY:
			PACIFIC RIM NATIONAL PARK RESERVE, TOFINO, BC		DF
			CLIENT:		DRAWN BY:
1	BI-AXIAL GEOGRID REF	03/12/21	PARKS CANADA		BPK
0	ISSUED FOR TENDER	02/17/21	TITLE:		CHECKED BY:
			WALL 1 & 2 DETAIL (STATION 0+235)		DF
REV. :	DESCRIPTION:	DATE :	SCALE:		PROJECT No.:
		(M/D/YR)	AS SHOWN		191-08875-02
			THIS DRAWING IS THE SOLE PROPERTY OF WSP CANADA INC. AND CANNOT BE USED OR DUPLICATED IN ANY WAY WITHOUT THE EXPRESSED WRITTEN CONSENT OF WSP. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES OR OMISSIONS TO WSP.		FIGURE NO.:
					WD-2

WSP Canada Inc.
760 Enterprise Cres.,
Victoria, B.C. V8Z 6R4
P. 250.475.1000
www.wsp.com

WALL 1
TYPICAL DETAIL - SINGLE WALL AT 0+250



LEGEND:						PROJECT:	UPSCHEEK TASHEE MULTI-USE PATHWAY WAYII AREA TRAIL DESIGN (ESCARPMENT) PACIFIC RIM NATIONAL PARK RESERVE, TOFINO, BC	DATE:	FEB 2021	 WSP Canada Inc. 760 Enterprise Cres. Victoria, B.C. V8Z 6R4 P: 250.475.1000 www.wsp.com
							DESIGN BY:	DF		
							DRAWN BY:	BPK		
			1	BI-AXIAL GEOGRID REF	03/12/21	CLIENT:	PARKS CANADA	CHECKED BY:	DF	
			0	ISSUED FOR TENDER	02/17/21	TITLE:	WALL 1 DETAIL AND BUTTRESS DETAIL (STATION 0+250)	SCALE:	AS SHOWN	
REV. :	DESCRIPTION:	DATE : (M/D/YR)	THIS DRAWING IS THE SOLE PROPERTY OF WSP CANADA INC. AND CANNOT BE USED OR DUPLICATED IN ANY WAY WITHOUT THE EXPRESSED WRITTEN CONSENT OF WSP. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES OR OMISSIONS TO WSP.				PROJECT No.:	191-08875-02	FIGURE NO.:	WD-3