



Parks
Canada

Parcs
Canada

PACIFIC RIM NATIONAL PARK RESERVE

ʔapsc̓iik ʔas̓ii

(Ups-cheek ta-shee)

“Going in the right direction on the trail”

WAYII AREA TRAIL DESIGN

ISSUED FOR TENDER
PROJECT NO. PCA #1522



FEBRUARY 2021

PARSONS

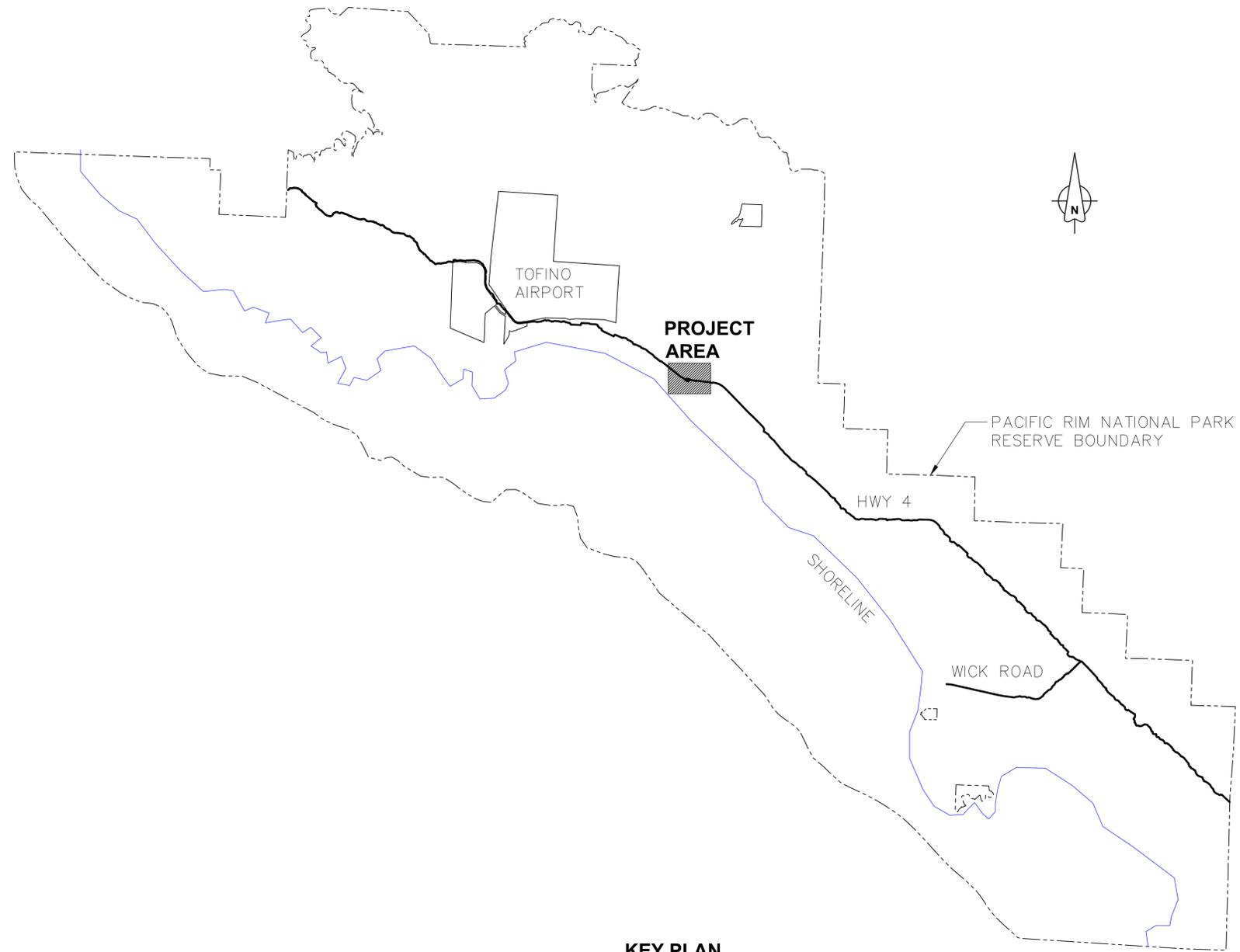
ʔapsc̓iik ʔas̓ii
“Going in the right direction on the trail”

PARKS CANADA

PACIFIC RIM NATIONAL PARK RESERVE

ʔapsčik ʔasii (Ups-cheek ta-shee)
“Going in the right direction on the trail”

WAYII AREA TRAIL DESIGN



KEY PLAN

ʔapsčik ʔasii
“Going in the right direction on the trail”

WAYII AREA TRAIL DESIGN INDEX SHEET

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?apsccik tasii
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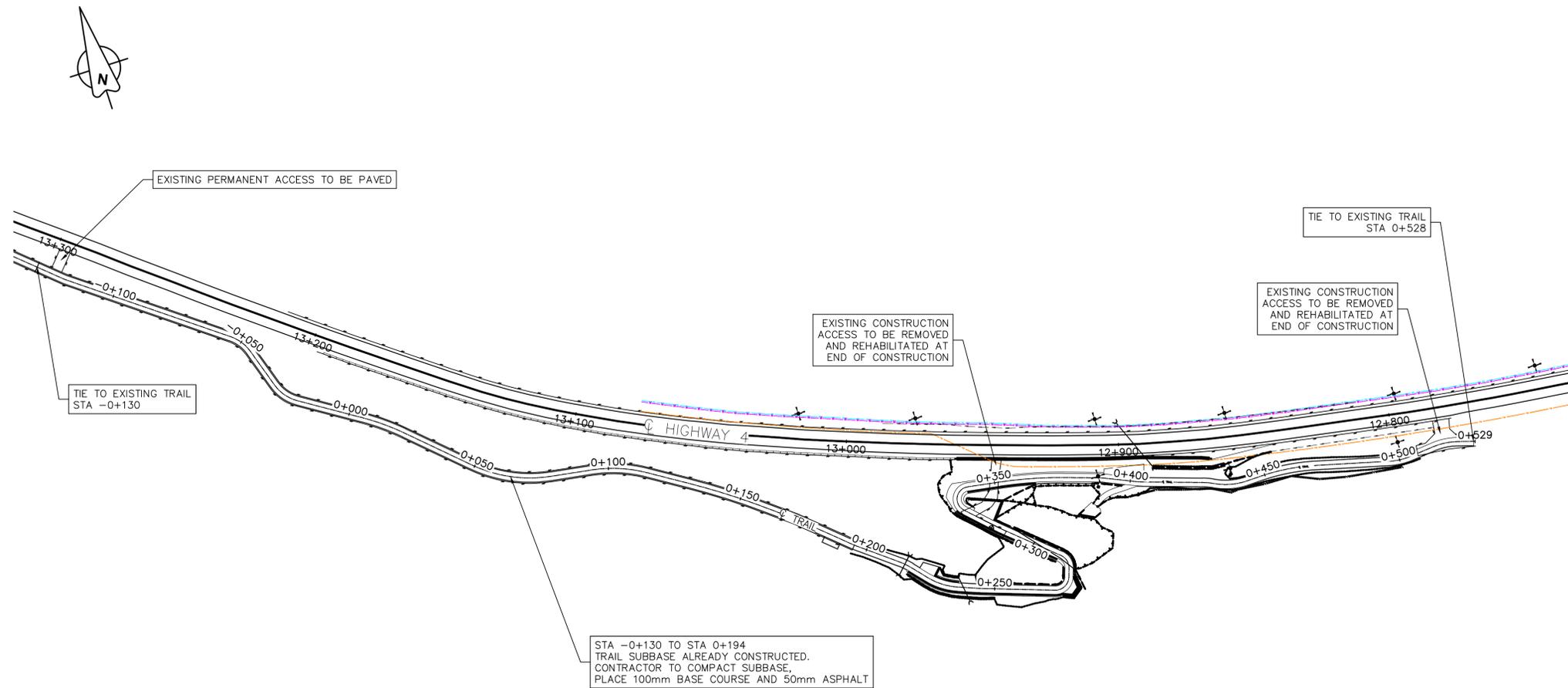
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PARSONS



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.

Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/02/18

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

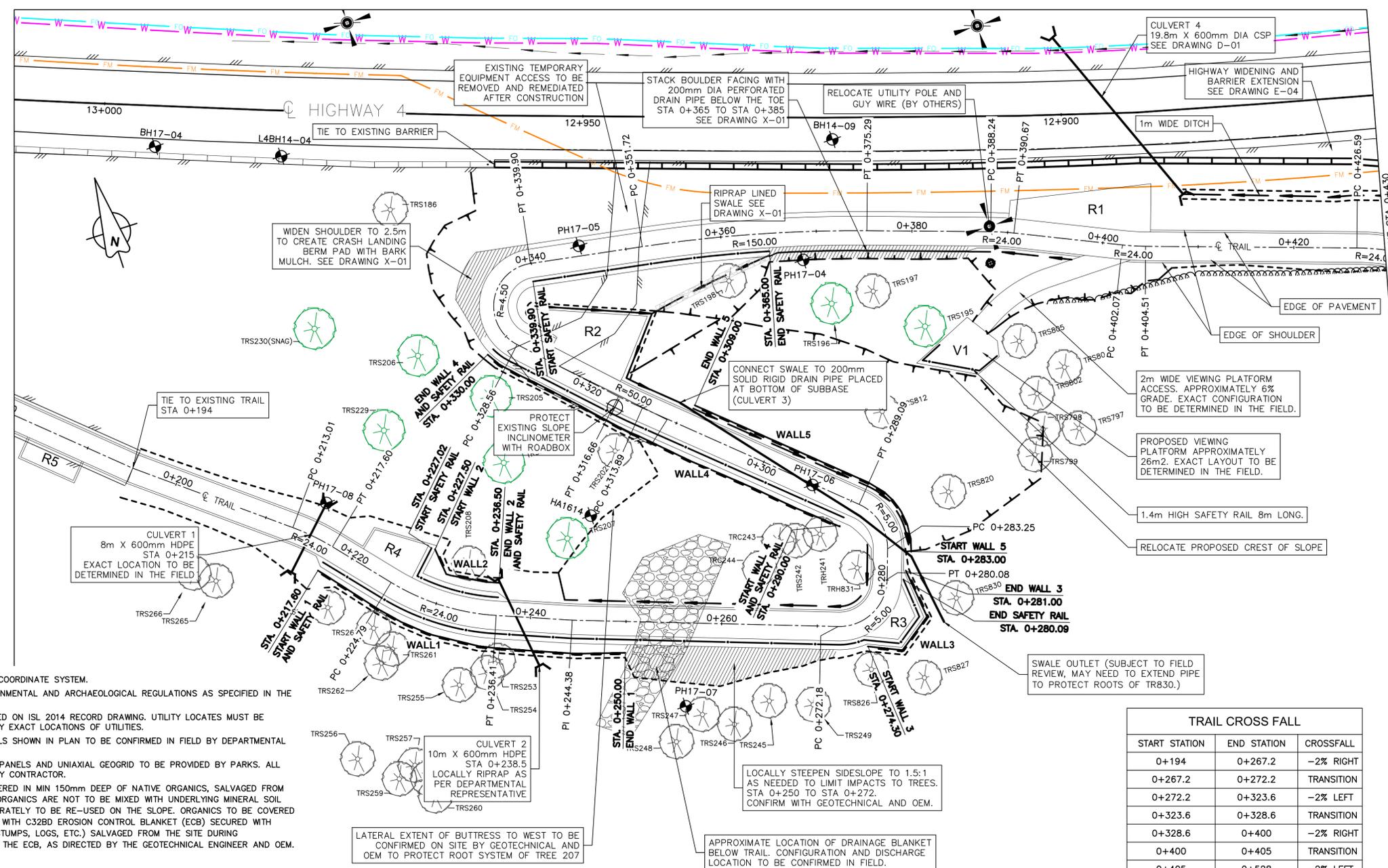
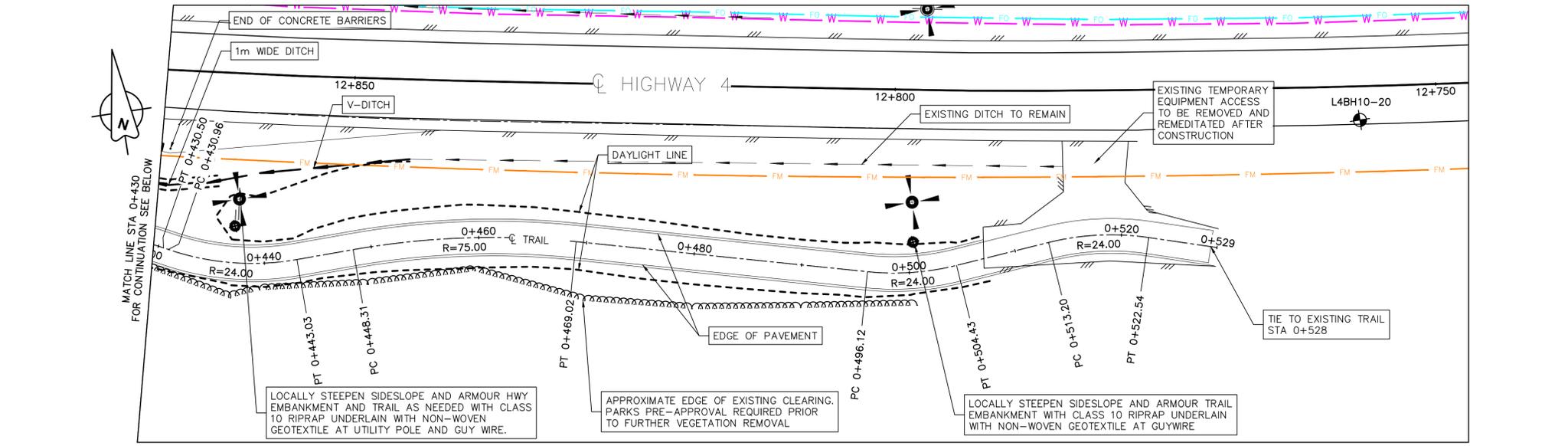
Project title/Titre du projet
**TOFINO
PACIFIC RIM
NATIONAL PARK RESERVE
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(Ups-cheek ta-shee)
"Going in the right
direction on the trail"**

Designed by/Concept par
ANDREW KWIAKOWSKI
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 PCA #1522	Sheet/Fauille E-01 OF	Revision no./La Révision no. 0
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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
- EXISTING TREE
 - TREE 1m DIAMETER OR LARGER
- V1** VIEWING PLATFORM
- R1** REST AREA
- CULVERT
 - SANITARY LINE
 - WATER LINE
 - FIBER OPTIC
 - APPROXIMATE BOREHOLE LOCATIONS



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- 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.
 - EXACT LOCATIONS AND SIZES OF RETAINING WALLS SHOWN IN PLAN TO BE CONFIRMED IN FIELD BY DEPARTMENTAL REPRESENTATIVE.
 - RETAINING WALLS SHALL BE ENVIROGRID. EGA40 PANELS AND UNIAXIAL GEOGRID TO BE PROVIDED BY PARKS. ALL OTHER ENVIROGRID ELEMENTS TO BE SUPPLIED BY CONTRACTOR.
 - 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.
 - 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.

TRAIL CROSS FALL

START STATION	END STATION	CROSSFALL
0+194	0+267.2	-2% RIGHT
0+267.2	0+272.2	TRANSITION
0+272.2	0+323.6	-2% LEFT
0+323.6	0+328.6	TRANSITION
0+328.6	0+400	-2% RIGHT
0+400	0+405	TRANSITION
0+405	0+528	-2% LEFT

PLAN
1:250

MATCH LINE STA 0+430 FOR CONTINUATION SEE ABOVE

Revision/	Description/Description	Date/Date
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
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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

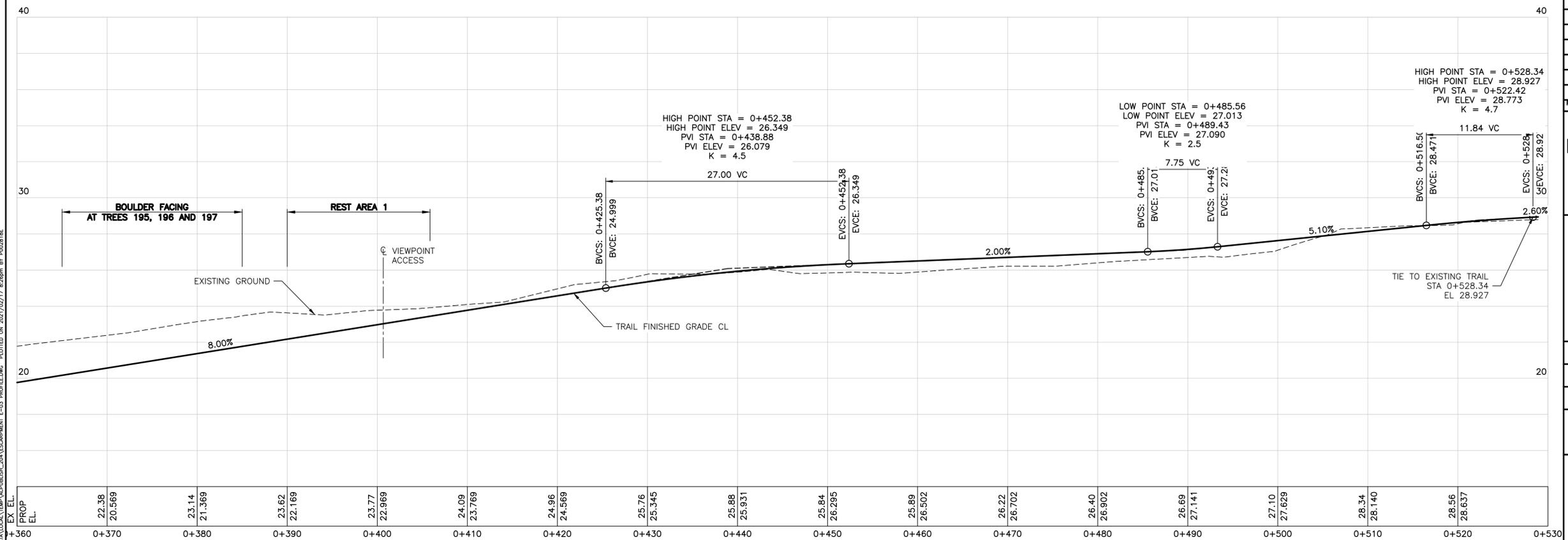
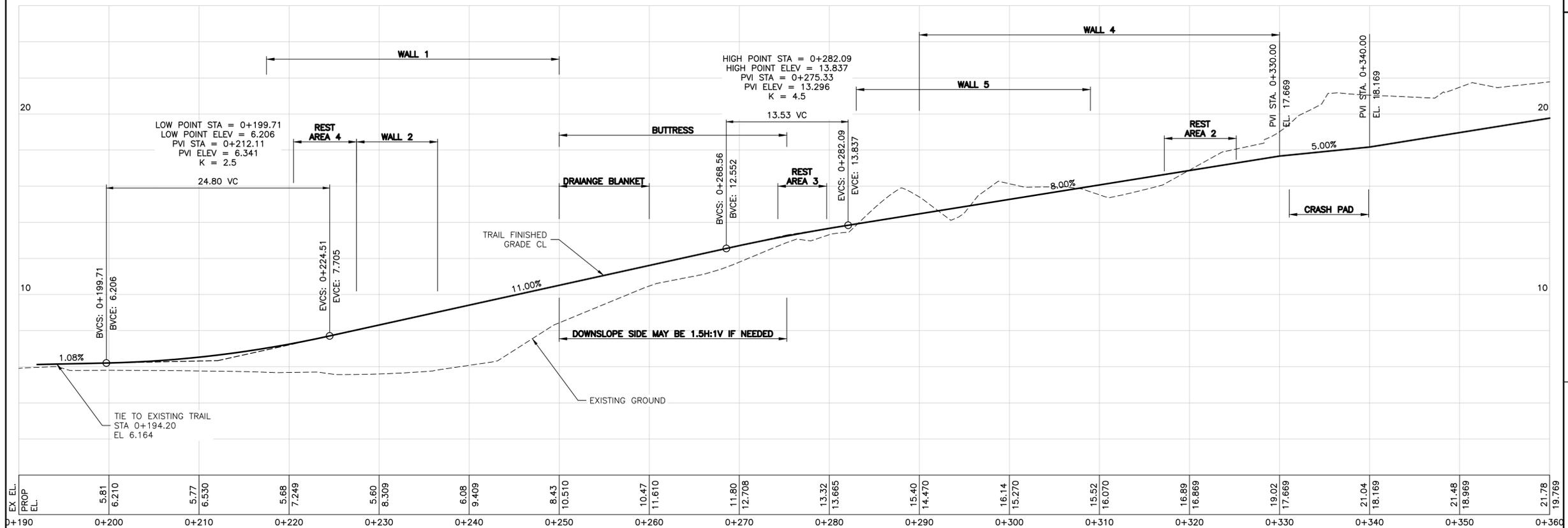
Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN

TRAIL PLAN

Project No./No. du projet PCA #1522	Sheet/Feuille E-02 OF	Revision no./La Révision no. 0
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PARSONS



PROFILE
1:250 HOR - 1:125 VER

Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/02/18

Client/Client	Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord du Canada
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Drawn by/Dessiné par
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PCA Project Manager/Technical Authority
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WAYII AREA TRAIL DESIGN
TRAIL PROFILE

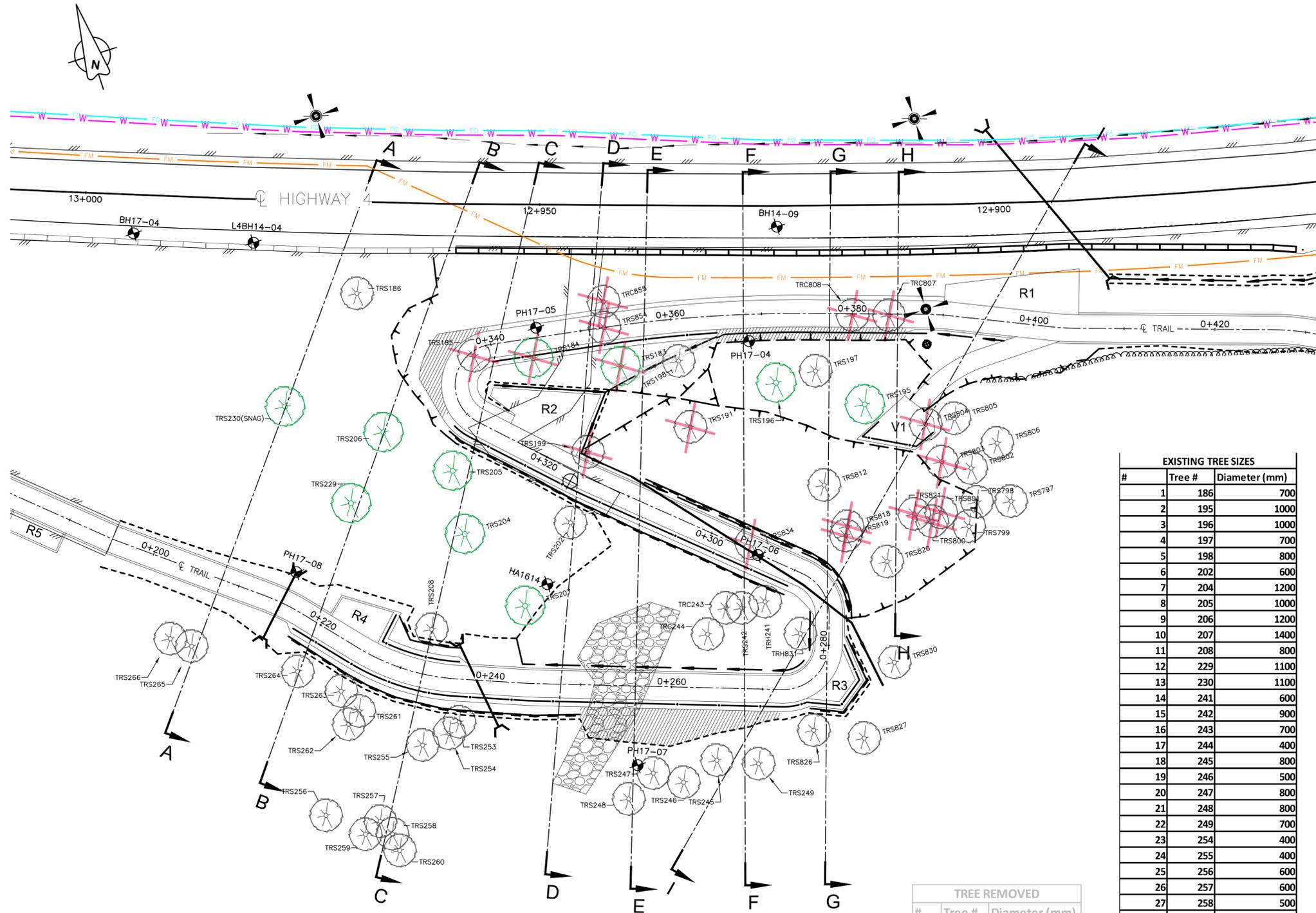
Project No./No. du projet PCA #1522	Sheet/Feuille E-02 OF	Revision no./La Révision no. 0
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LEGEND

- 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



PLAN
1:250

- NOTE:
1. TREE DIAMETERS ARE AN APPROXIMATION.
 2. 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.
 3. CONTRACTOR MUST EMPLOY METHODS THAT PROTECT MATURE TREES (>500mm) IN THE WORK AREA TO AVOID ADDITIONAL REMOVALS, OR DAMAGE TO LIMBS AND ROOT SYSTEMS.
 4. 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.
 5. 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.
 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.

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

TREE REMOVED		
#	Tree #	Diameter (mm)
1	183	1000
2	184	1000
3	185	700
4	191	700
5	199	600
6	800	600
7	801	500
8	803	500
9	804	500
10	807	700
11	808	400
12	818	400
13	819	700
14	821	400
15	834	500
16	854	500
17	855	500

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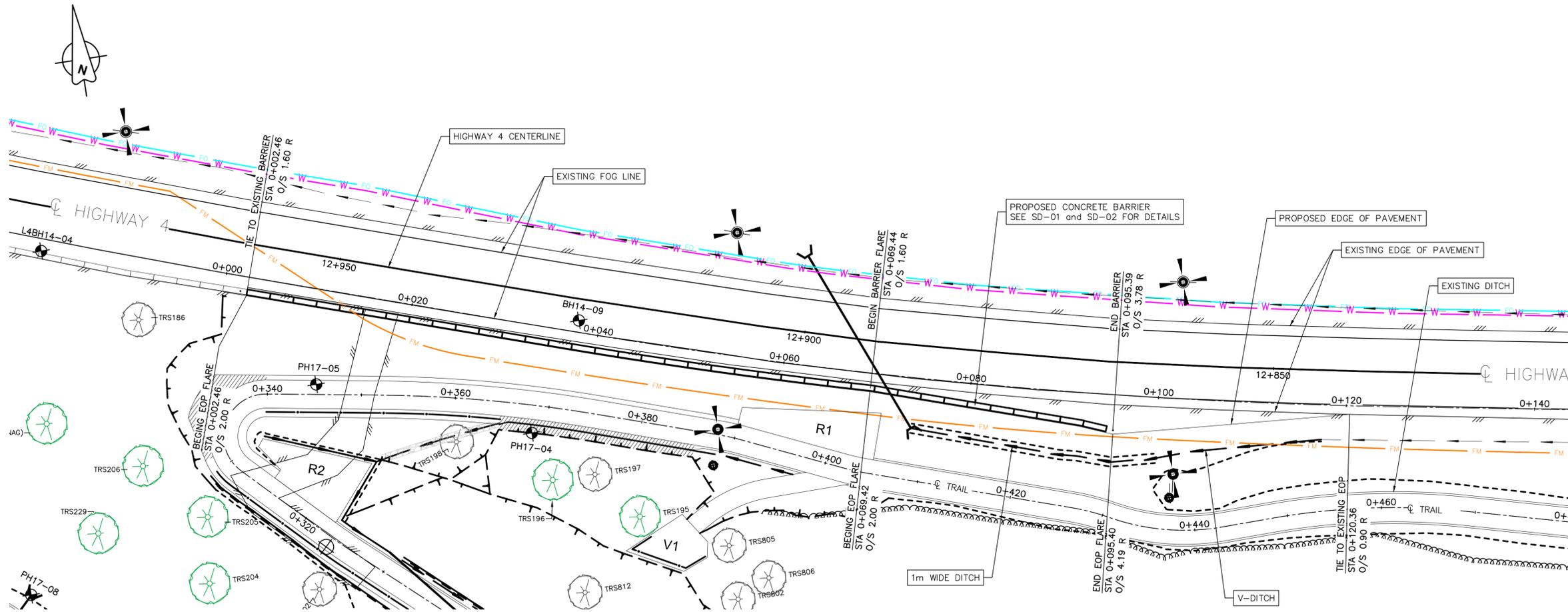
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Drawn by/Dessiné par
MICHAEL GIANG
PCA Project Manager/Technical Authority
Administrateur de Projets APC
JACKIE HICKS

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

Project No./No. du projet PCA #1522	Sheet/Feuille E-04 OF	Revision no./La Révision no. 0
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PLAN
1:250

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
	EXISTING TREE
	TREE 1m DIAMETER OR LARGER
	V1 VIEWING PLATFORM
	R1 REST AREA
	CULVERT
	SANITARY LINE
	WATER LINE
	FIBER OPTIC
	APPROXIMATE BOREHOLE LOCATIONS

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Client/Client	Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord du Canada
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Project title/Titre du projet
**TOFINO
PACIFIC RIM
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"Going in the right
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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
ROADSIDE BARRIER PLAN**

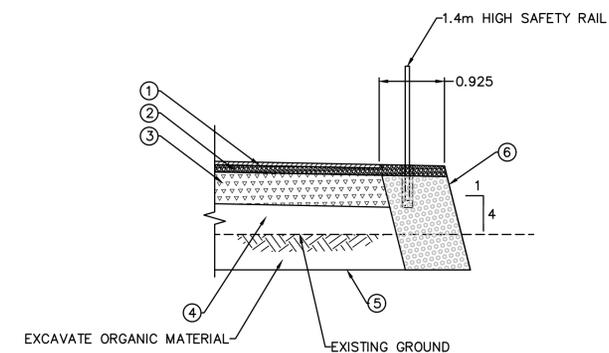
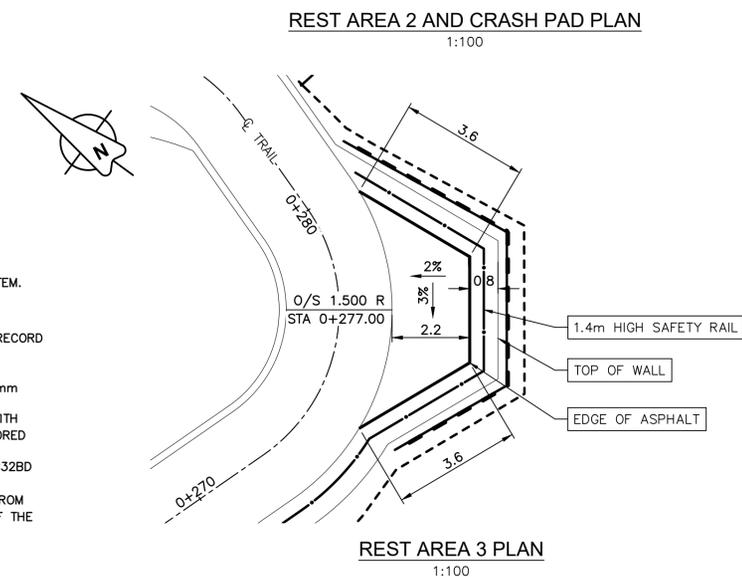
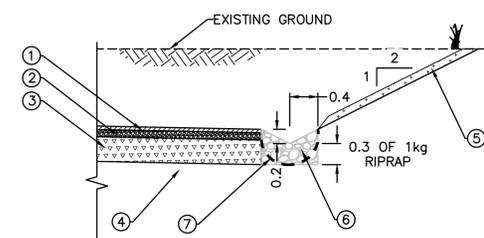
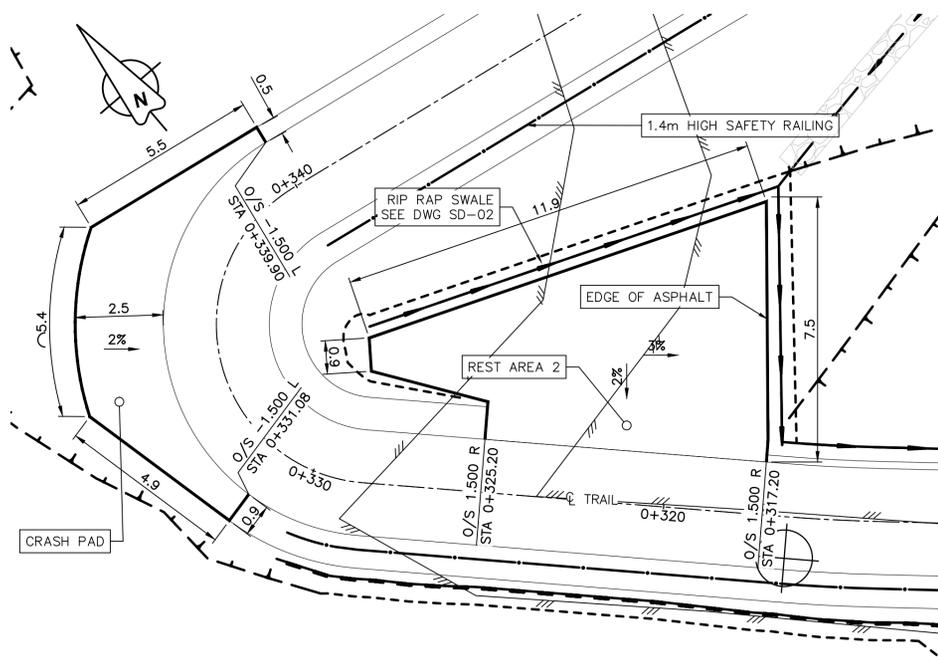
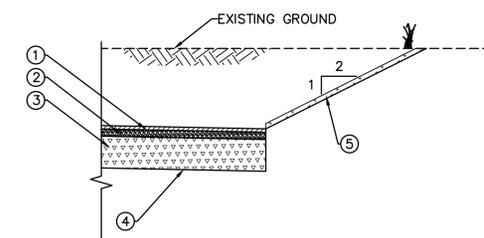
Project No./No. du projet PCA #1522	Sheet/Feuille E-05 OF	Revision no./La Révision no. 0
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PARSONS

wsp

- LEGEND**
- EXISTING**
- EDGE OF PAVEMENT
 - - - SHOULDER OF HIGHWAY
 - CONCRETE ROADSIDE BARRIER
 - TOP OF BANK
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 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.

Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/02/18

Client/Client	Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord du Canada
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Project title/Titre du projet
TOFINO
PACIFIC RIM NATIONAL PARK RESERVE
ᑭᐱᓂᑏᑏ ᑭᐱᓂᑏ
(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

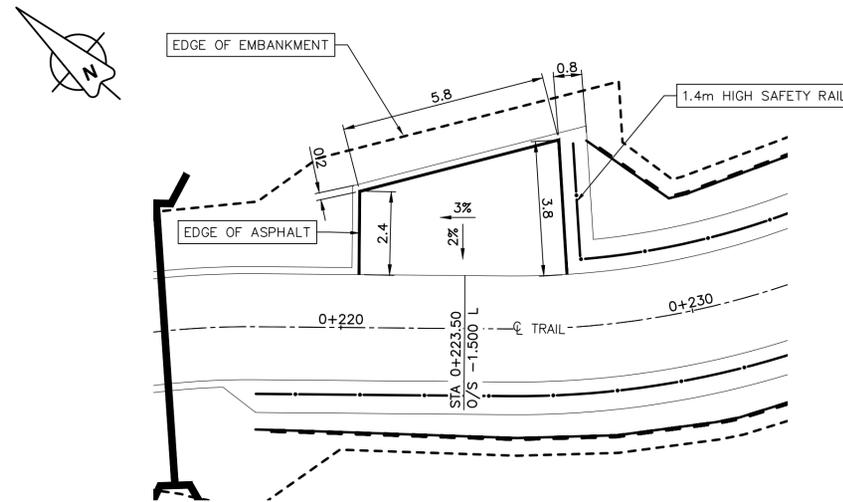
Drawing title/Titre du dessin WAYII AREA TRAIL DESIGN REST AREA LAYOUT 1		
Project No./No. du projet PCA #1522	Sheet/Feuille E-06 OF	Revision no./La Révision no. 0



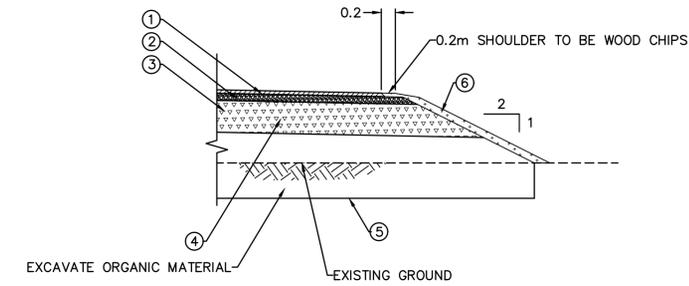
PARSONS

wsp

- 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

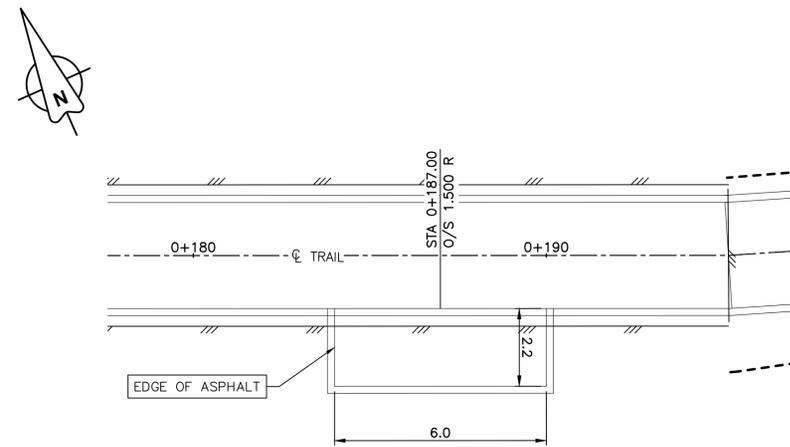


REST AREA 4 PLAN
1:100

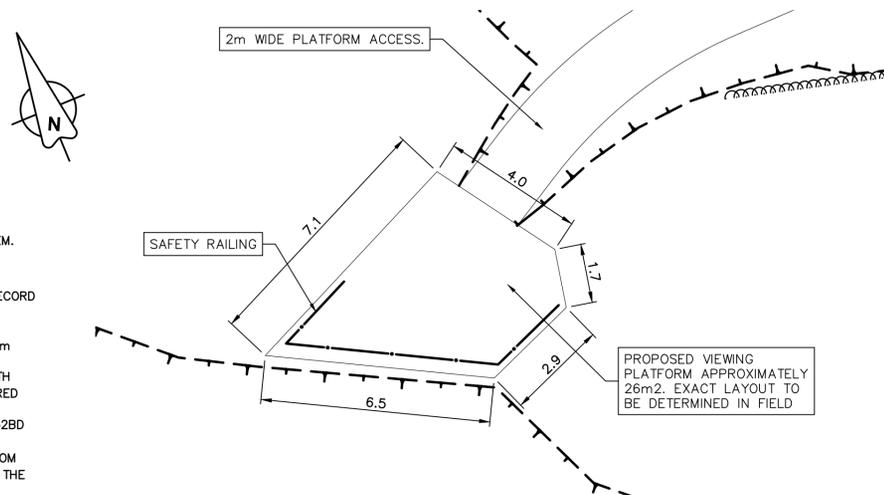


- STRUCTURE:**
1. 50mm ASPHALT MMCD FINE MIX
 2. 100mm - 19mm GRANULAR BASE
 3. 450mm - 75mm CRUSHED GRANULAR SUBBASE
 4. APPROVED COMPACTED BACKFILL
 5. GEOTECHNICALLY APPROVED UNDISTURBED SUB-GRADE
 6. SALVAGED ORGANICS MIN 150mm THICK AND WOODY DEBRIS PER OEM. SEE ENVIRONMENTAL DRAWINGS EN-01 TO EN-04 FOR DETAILS.

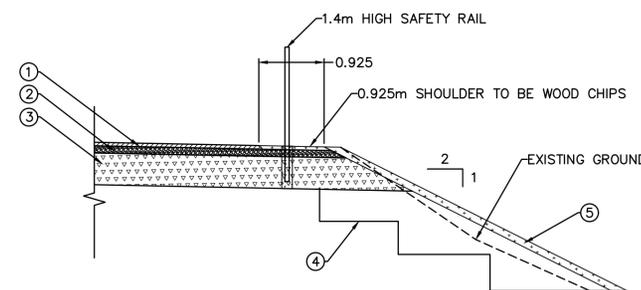
REST AREA 4 AND 5 PAVEMENT STRUCTURE
1:50



REST AREA 5 PLAN
1:100



VIEWING PLATFORM PLAN
1:100



- STRUCTURE:**
1. 50mm ASPHALT MMCD FINE MIX
 2. 100mm - 19mm GRANULAR BASE
 3. 450mm - 75mm CRUSHED GRANULAR SUBBASE
 4. GEOTECHNICALLY APPROVED UNDISTURBED SUB-GRADE
 5. SALVAGED ORGANICS MIN 100mm THICK AND WOODY DEBRIS PER OEM. SEE ENVIRONMENTAL DRAWINGS EN-01 TO EN-04 FOR DETAILS.

VIEWING PLATFORM PAVEMENT STRUCTURE
1:50

- NOTES:**
1. SURVEY DATA IS BASED UPON THE UTM NAD83 COORDINATE SYSTEM.
 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.

Revision/	Description/Description	Date/Date
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
ᑎᐱᓂᑏᑦ ᑎᐱᓂᑏᑦ
(Ups-cheek ta-shie)
"Going in the right direction on the trail"

Consultant Signature Only

Designed by/Concept par
DARRYL FUREY / ANDREW KWATKOWSKI

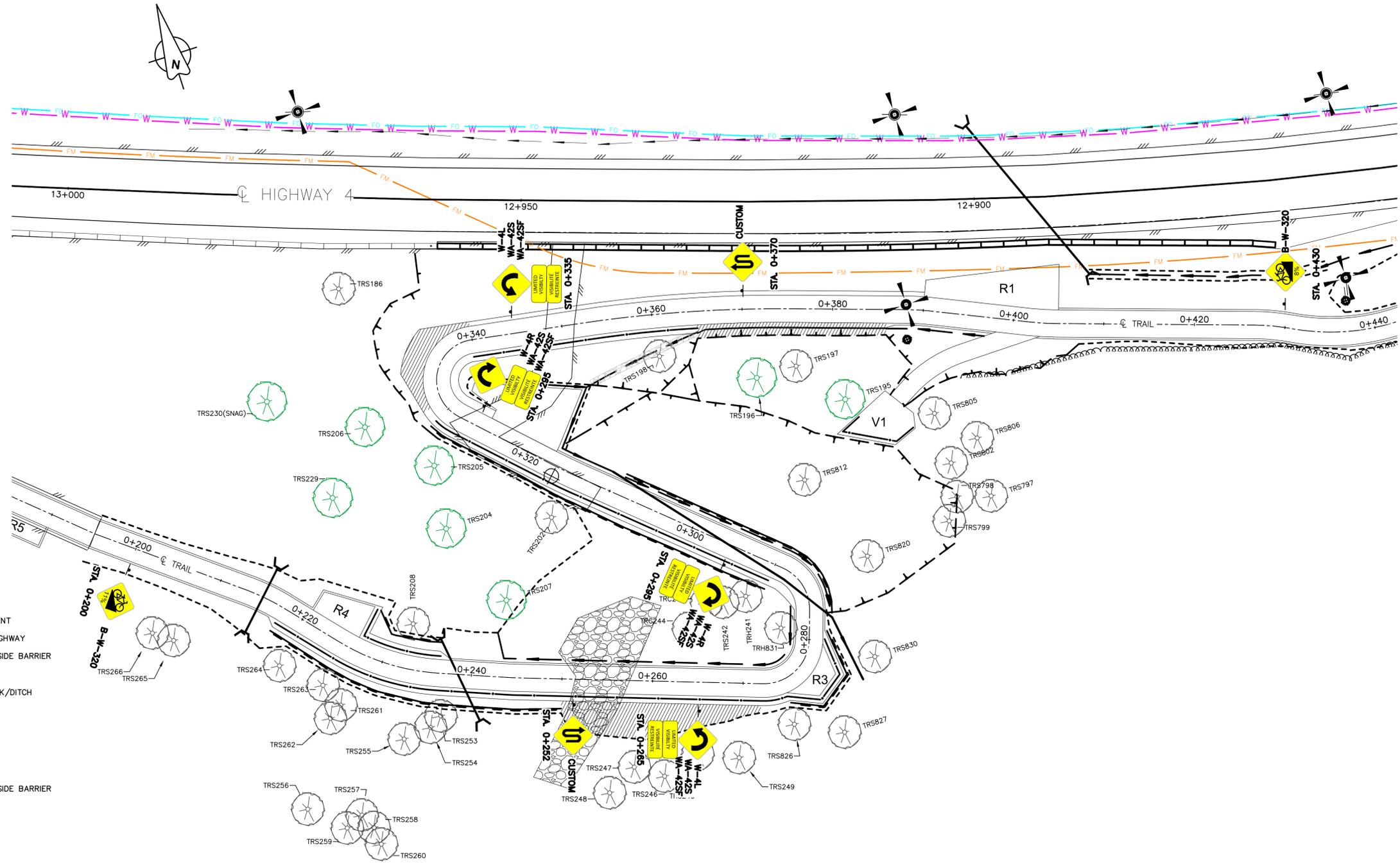
Drawn by/Dessiné par
MICHAEL GIANG

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

Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
REST AREA LAYOUT 2

Project No./No. du projet PCA #1522	Sheet/Feuille E-07 OF	Revision no./La Révision no. 0
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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
 - ⊙ EXISTING TREE
 - ⊙ TREE 1m DIAMETER OR LARGER
 - V1** VIEWING PLATFORM
 - R1** REST AREA
 - ▬ CULVERT
 - SANITARY LINE
 - WATER LINE
 - FIBER OPTIC
 - ⊕ APPROXIMATE BOREHOLE LOCATIONS

PLAN
1:250

- 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.

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
ᑕᐱᓱᓴᓴᓴ ᓂᐱᓴᓴᓴ
(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

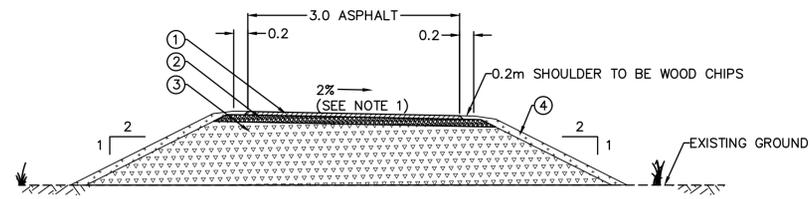
PCA Project Manager/Technical Authority
Administrateur de Projets APC
JACKIE HICKS

Drawing title/Titre du dessin
**WAYII AREA TRAIL DESIGN
SIGNAGE PLAN**

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

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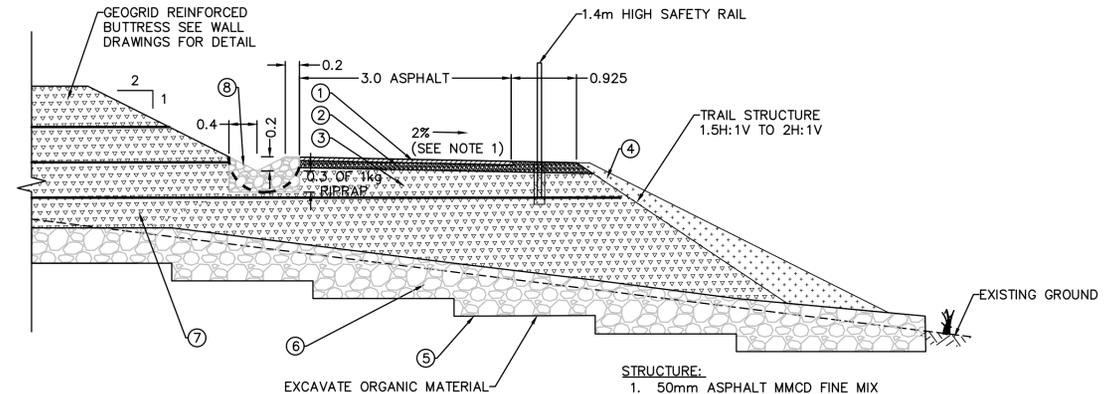


- STRUCTURE:**
- 50mm ASPHALT MMCD FINE MIX
 - 100mm - 19mm GRANULAR BASE
 - EXISTING SUBBASE
 - SALVAGED ORGANICS MIN 150mm THICK AND WOOD DEBRIS PER OEM. ONLY WOOD DEBRIS/ORGANICS RESTRICTION IS NOT TO IMPEDE DRAINAGE.

- NOTES:**
- CROSS FALL DIRECTION VARIES.

TYPICAL TRAIL PAVING SECTION
1:50

STA -0+130 TO STA 0+195

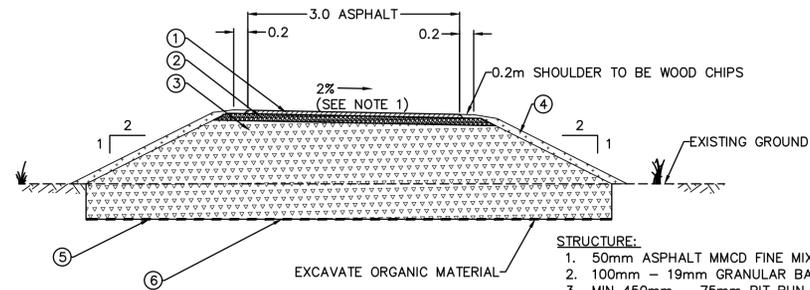


- STRUCTURE:**
- 50mm ASPHALT MMCD FINE MIX
 - 100mm - 19mm GRANULAR BASE
 - MIN 450mm - 75mm CRUSHED GRANULAR SUBBASE
 - SALVAGED ORGANICS AND WOOD DEBRIS PER OEM
 - IF ORGANICS SLOPE STEEPER THAN 2H:1V - LIMIT THICKNESS TO LESS THAN 200mm, SECURE WITH ECB AND LIMIT WOOD DEBRIS
 - IF ORGANICS SLOPE 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 FILL SECTION WITH BUTTRESS
1:50

STA 0+250 TO STA 0+280

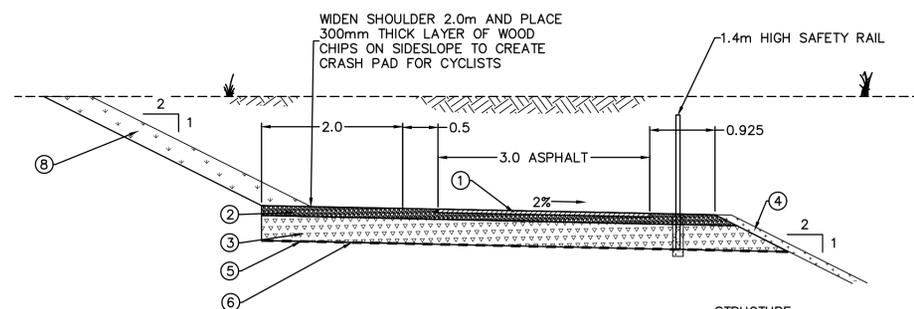


- STRUCTURE:**
- 50mm ASPHALT MMCD FINE MIX
 - 100mm - 19mm GRANULAR BASE
 - MIN 450mm - 75mm PIT RUN
 - SALVAGED ORGANICS MIN 150mm THICK AND WOOD DEBRIS PER OEM. ONLY WOOD DEBRIS/ORGANICS RESTRICTION IS NOT TO IMPEDE DRAINAGE. SEE ENVIRONMENTAL DRAWINGS EN-01 TO EN-04 FOR DETAILS.
 - COMPOSITE GEOGRID TE-BXC30 OR APPROVED EQUIVALENT
 - GEOTECHNICALLY APPROVED UNDISTURBED SUBGRADE
 - SLOPE/EMBANKMENT HEIGHT LESS THAN 2m

- NOTES:**
- CROSS FALL DIRECTION VARIES.

TYPICAL TRAIL FILL SECTION
ORGANIC SHOULDER
1:50

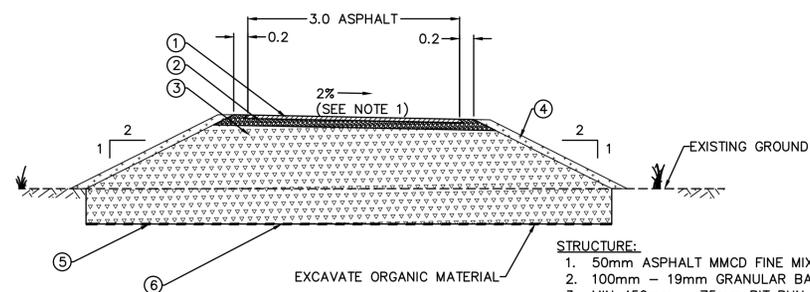
STA 0+195 TO STA 0+217.5
STA 0+450 TO STA 0+528



- STRUCTURE:**
- 50mm ASPHALT MMCD FINE MIX
 - 100mm - 19mm GRANULAR BASE
 - 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

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
 - 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
 - GEOTECHNICALLY APPROVED UNDISTURBED SUBGRADE
 - SLOPE/EMBANKMENT HEIGHT LESS THAN 2m

- NOTES:**
- CROSS FALL DIRECTION VARIES.

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

STA 0+410 TO STA 0+450

0	ISSUED FOR TENDER	21/02/18
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Revision/	Description/Description	Date/Date
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
ᑕᐱᓂᑏᑏ ᑕᐱᓂᑏ
(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

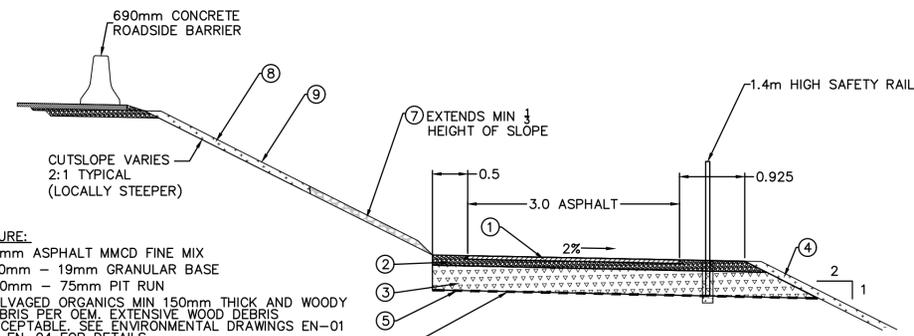
TYPICAL SECTIONS 1

Project No./No. du projet PCA #1522	Sheet/Feuille X-01 OF	Revision no./La Révision no. 0
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PARSONS

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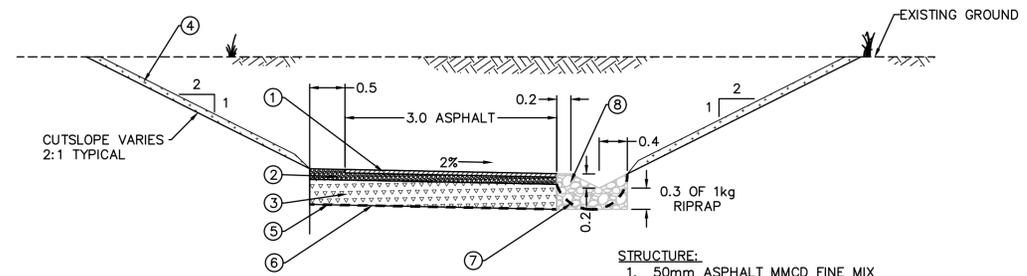


STRUCTURE:

1. 50mm ASPHALT MMCD FINE MIX
2. 100mm - 19mm GRANULAR BASE
3. 300mm - 75mm PIT RUN
4. SALVAGED ORGANICS MIN 150mm THICK AND WOODY DEBRIS PER OEM. EXTENSIVE WOOD DEBRIS ACCEPTABLE. SEE ENVIRONMENTAL DRAWINGS EN-01 TO EN-04 FOR DETAILS.
5. COMPOSITE GEOGRID TE-BXC30 OR APPROVED EQUIVALENT
6. GEOTECHNICALLY APPROVED UNDISTURBED SUBGRADE
7. CLASS 10 RIPRAP 300mm THICK
8. ORGANICS MAX 200mm LIMITED TO NO WOOD DEBRIS
9. C32BD EROSION CONTROL BLANKET TO BE INSTALLED OVER NATIVE ORGANICS AS REQUIRED BY THE GEOTECHNICAL ENGINEER AND OEM. ECB TO BE SECURED WITH 10M REBAR HOOKED "PINS", STAPLE PATTERN "C".

TYPICAL TRAIL CUT SECTION ADJACENT TO HIGHWAY
1:50

STA 0+340 TO STA 0+365

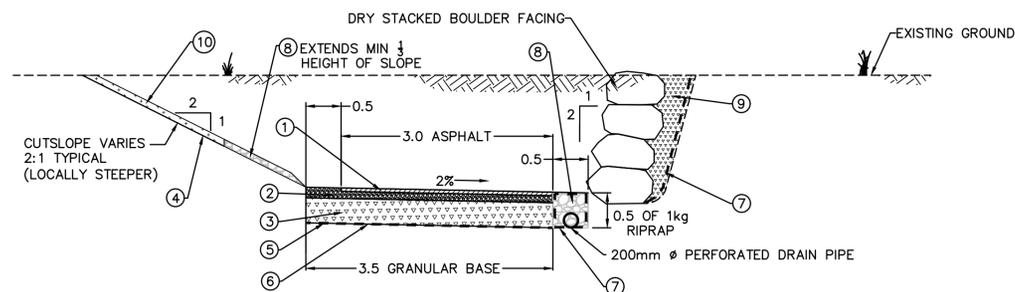


STRUCTURE:

1. 50mm ASPHALT MMCD FINE MIX
2. 100mm - 19mm GRANULAR BASE
3. 300mm - 75mm PIT RUN
4. SALVAGED ORGANICS MIN 150mm THICK AND WOODY DEBRIS PER OEM. SEE ENVIRONMENTAL DRAWINGS EN-01 TO EN-04 FOR DETAILS.
5. COMPOSITE GEOGRID TE-BXC30 OR APPROVED EQUIVALENT
6. GEOTECHNICALLY APPROVED UNDISTURBED SUBGRADE
7. NON WOVEN GEOTEXTILE ARMTEC 200 OR APPROVED EQUIVALENT
8. CLASS 10kg RIPRAP

TYPICAL TRAIL CUT SECTION WITH SWALE
SLOPE < 2m HIGH
1:50

STA 0+385 TO STA 0+410



NOTES:

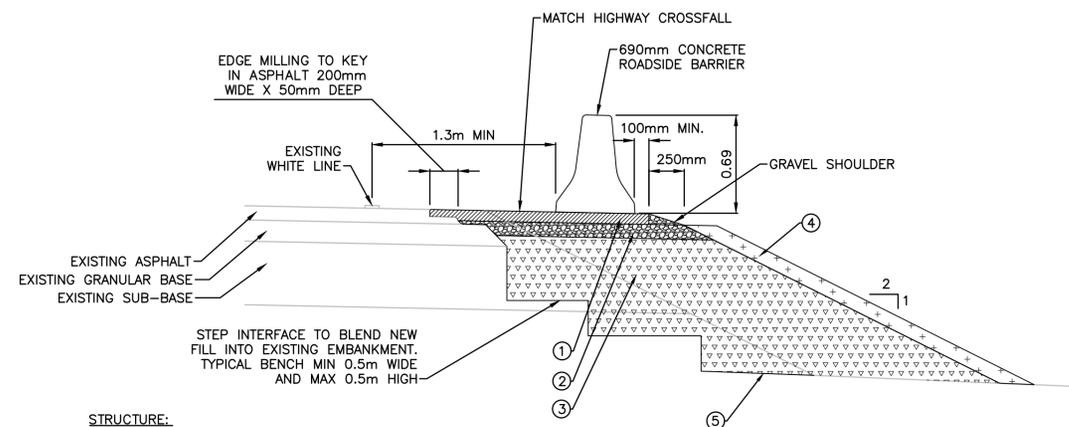
1. TOE EMBEDMENT OF 0.3m.
2. FACE BATTER OF 1H:2V.
3. BOULDER FACING 0.5m TO 1m DIAMETER.

STRUCTURE:

1. 50mm ASPHALT MMCD FINE MIX
2. 100mm - 19mm GRANULAR BASE
3. 300mm - 75mm PIT RUN
4. SALVAGED ORGANICS MIN 150mm TO MAX 200mm THICK. SEE ENVIRONMENTAL DRAWINGS EN-01 TO EN-04 FOR DETAILS.
5. COMPOSITE GEOGRID TE-BXC30 OR APPROVED EQUIVALENT
6. GEOTECHNICALLY APPROVED UNDISTURBED SUBGRADE
7. NON WOVEN GEOTEXTILE ARMTEC 200 OR APPROVED EQUIVALENT
8. CLASS 10kg RIPRAP
9. 25mm CLEAR CRUSH TO FILL VOIDS
10. C32BD EROSION CONTROL BLANKET TO BE INSTALLED OVER NATIVE ORGANICS AS REQUIRED BY THE GEOTECHNICAL ENGINEER AND OEM. ECB TO BE SECURED WITH 10M REBAR HOOKED "PINS", STAPLE PATTERN "C".
11. LIMITED TO NO WOOD DEBRIS

TYPICAL TRAIL CUT SECTION WITH SUB-DRAIN
SLOPE > 2m AND LOCALLY STEEPER THAN 2H:1V
1:50

STA 0+365 TO STA 0+385

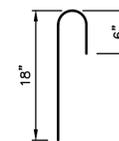


STRUCTURE:

1. 75mm ASPHALT MMCD FINE MIX
2. 100mm - 19mm GRANULAR BASE
3. MIN 450mm - 75mm CRUSHED GRANULAR SUBBASE
4. SALVAGED ORGANICS MIN 300mm THICK AND WOOD DEBRIS PER OEM. ONLY WOOD DEBRIS/ORGANICS RESTRICTION IS NOT TO IMPEDE DRAINAGE.
5. STRIP TO FIRM SUBGRADE (GEOTECH TO APPROVE SUBGRADE PRIOR TO COVERING)

TYPICAL HIGHWAY WIDENING
1:25

STA 0+340 TO STA 0+450



REBAR HOOKED PINS
"U" HOOK 10" W/2-1/2" BEND
NTS

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
ᑭᐱᓂᓕᓴᓴ ᓂᓴᓴᓴ
(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

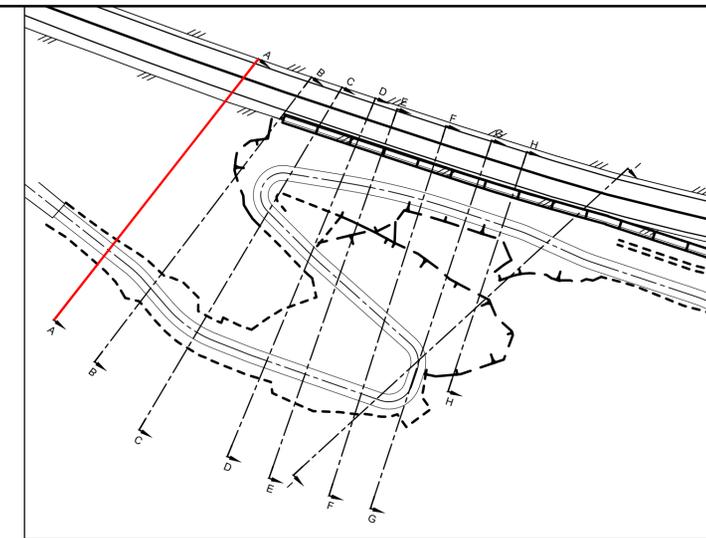
Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
TYPICAL SECTIONS 2

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
PCA #1522	X-02 OF	0

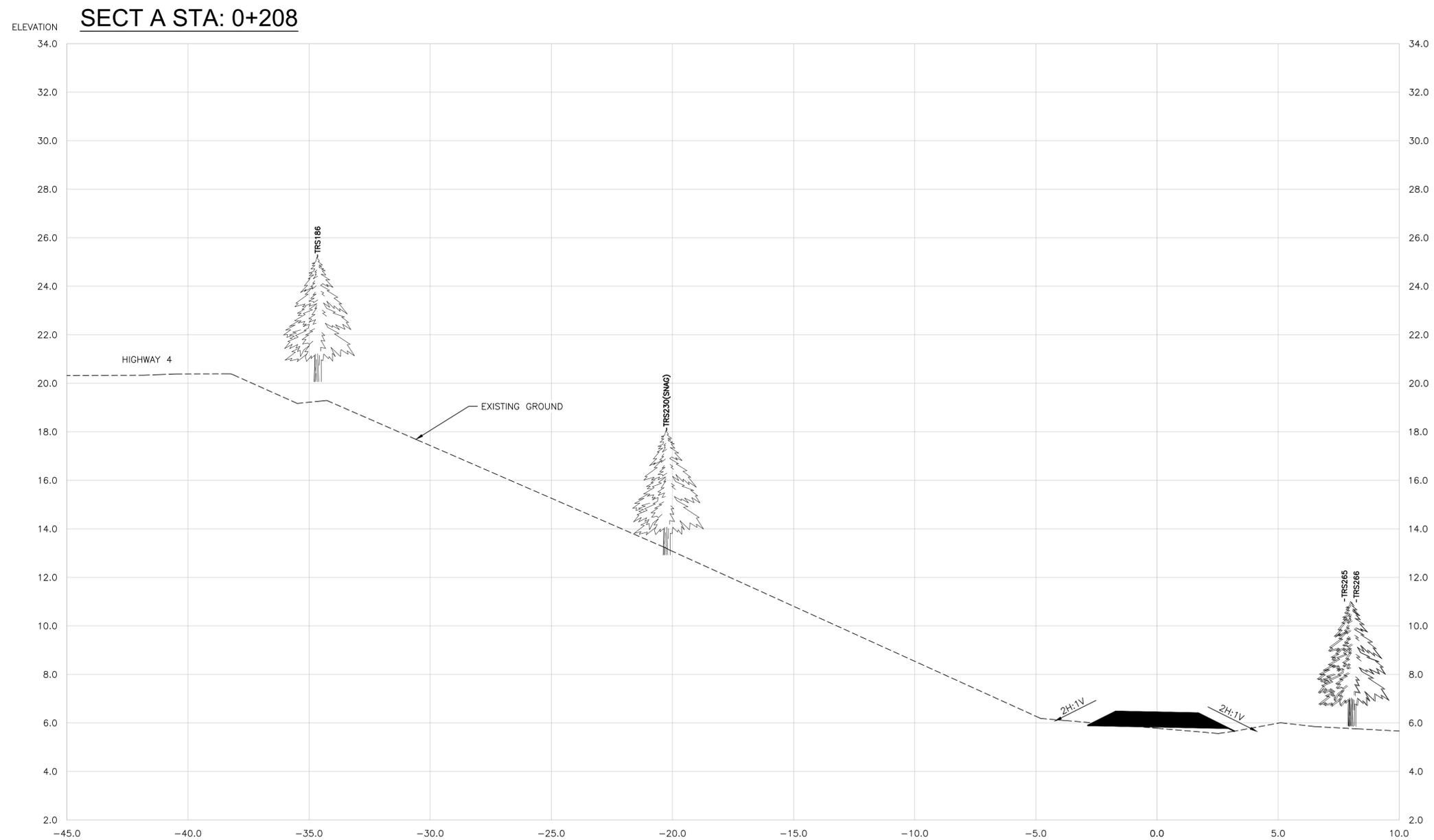


PARSONS

wsp



KEY PLAN
NTS



SECTION
1:100 HOR = 1:100 VER

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

Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/02/18

	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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DARRYL FUREY / ANDREW KWIATKOWSKI

Drawn by/Dessine par
MICHAEL GIANG

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

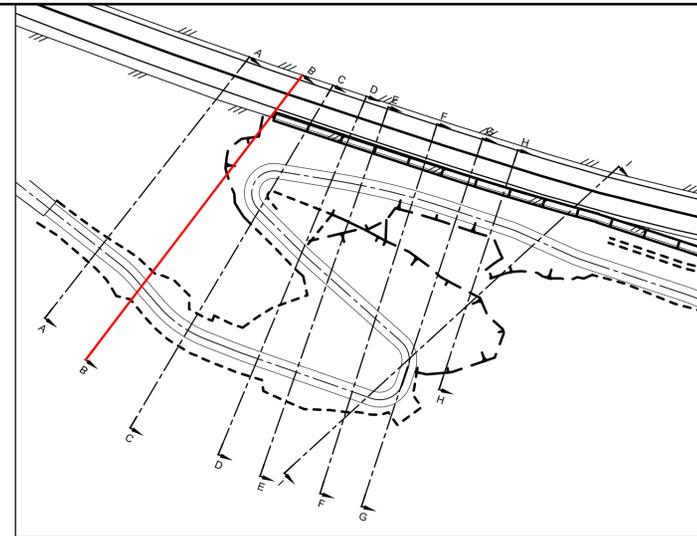
Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
SLOPE SECTION A
STA 0+208

Project No./No. du projet PCA #1522	Sheet/Feuille X-03 OF	Revision no./La Révision no. 0
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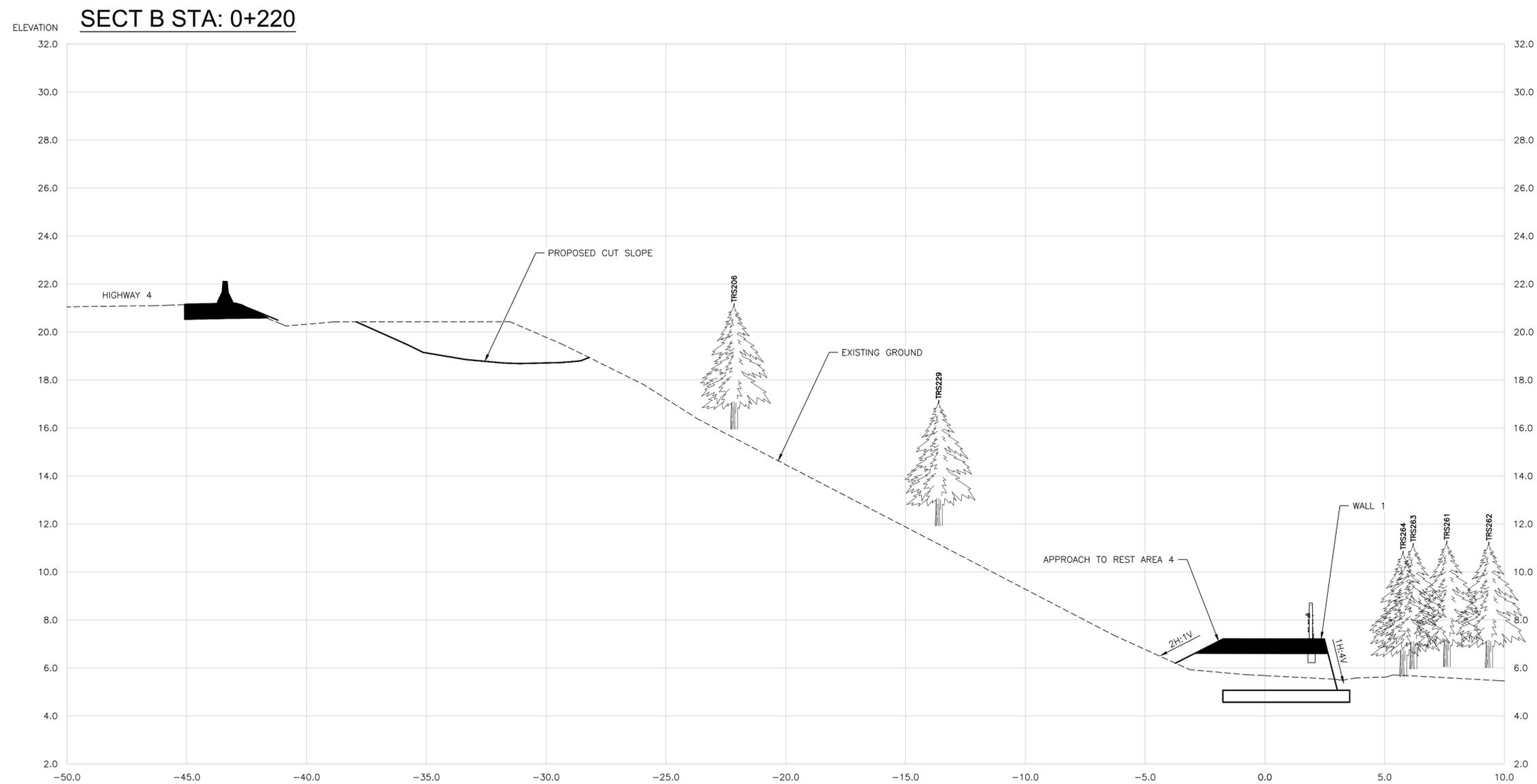
\\VCS068503\WAYII\WAYII_03121 - PWGSC_S&A_2018-10\PACIFIC_RIM\RESERVE_TERRAIN\WAYS\ESCAPEMENT_VT\ESCAPEMENT_T-03-04_CROSS_SECTIONS.dwg PLOTTED ON 2021/02/17 8:41pm BY P02618E



PARSONS



KEY PLAN
NTS



SECTION
1:100 HOR - 1:100 VER

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

Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/02/18

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

Project title/Titre du projet
**TOFINO
PACIFIC RIM
NATIONAL PARK RESERVE
ᑕᐱᓂᓕᓕᓕ ᓂᓕᓕᓕ
(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
SLOPE SECTION B
STA 0+220**

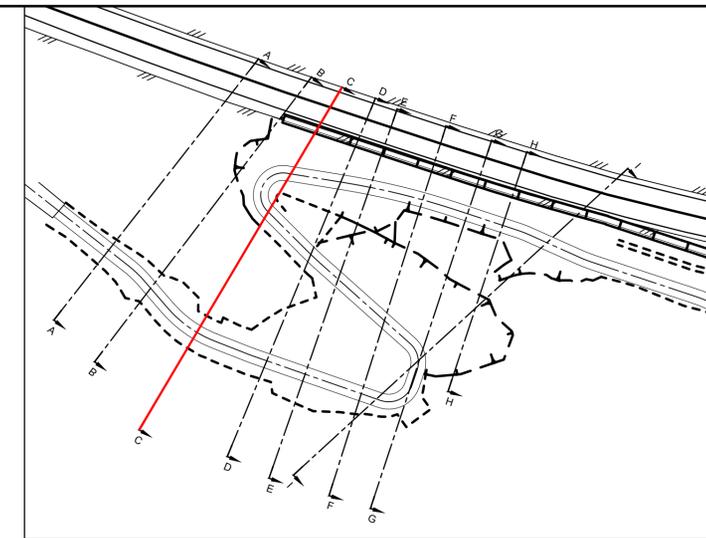
Project No./No. du projet PCA #1522	Sheet/Feuille X-04 OF	Revision no./La Révision no. 0
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\\caddes01\WAYII\03121 - PWGSC - 2018 - 01 - PACIFIC TRAILWAYS ESCARPMENT - 1-03-24 CROSS SECTIONS.DWG PLOTTED ON 2021/02/17 8:41pm BY P052618E



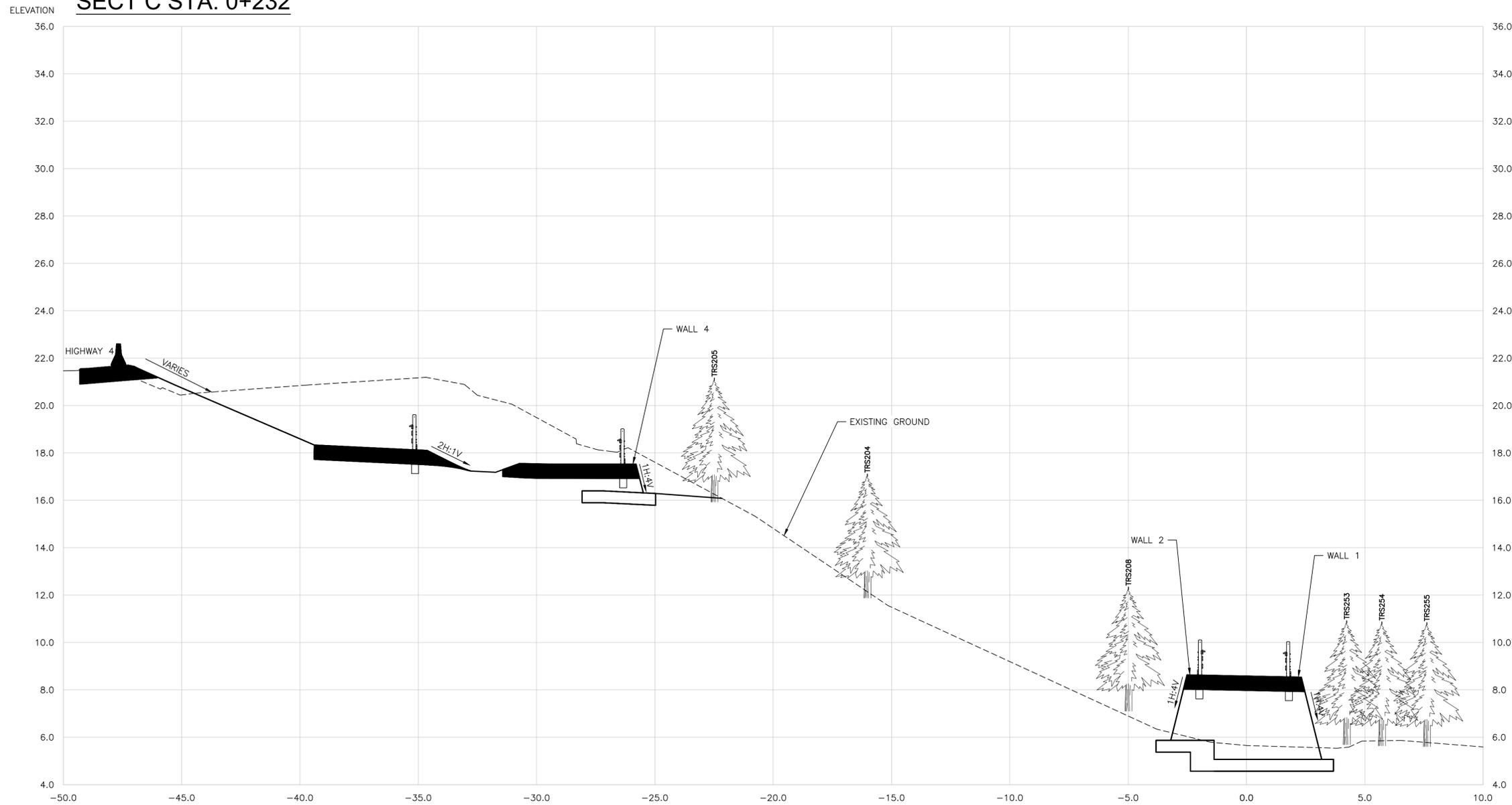
PARSONS

wsp



KEY PLAN
NTS

SECT C STA: 0+232



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

Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/02/18

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

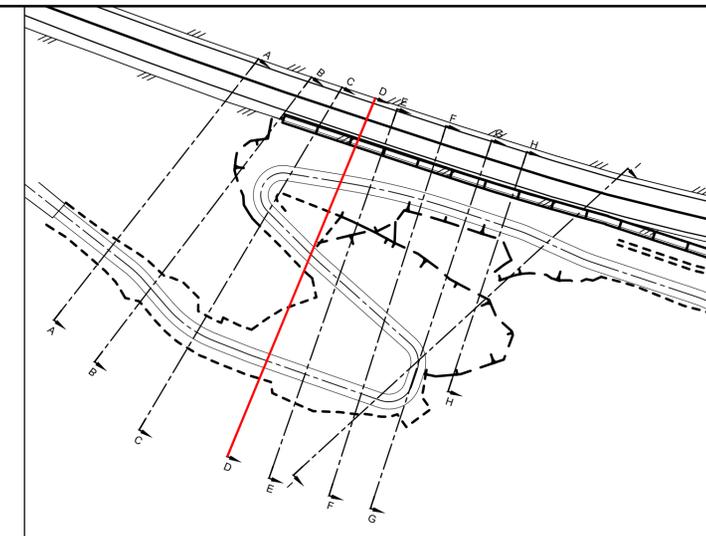
Consultant Signature Only
Designed by/Concept par
DARRYL FUREY / ANDREW KWIATKOWSKI
Drawn by/Dessiné par
MICHAEL GIANG
PCA Project Manager/Technical Authority
Administrateur de Projets APC
JACKIE HICKS

Drawing title/Titre du dessin
**WAYII AREA TRAIL DESIGN
SLOPE SECTION C
STA 0+232**

Project No./No. du projet PCA #1522	Sheet/Feuille X-05 OF	Revision no./La Révision no. 0
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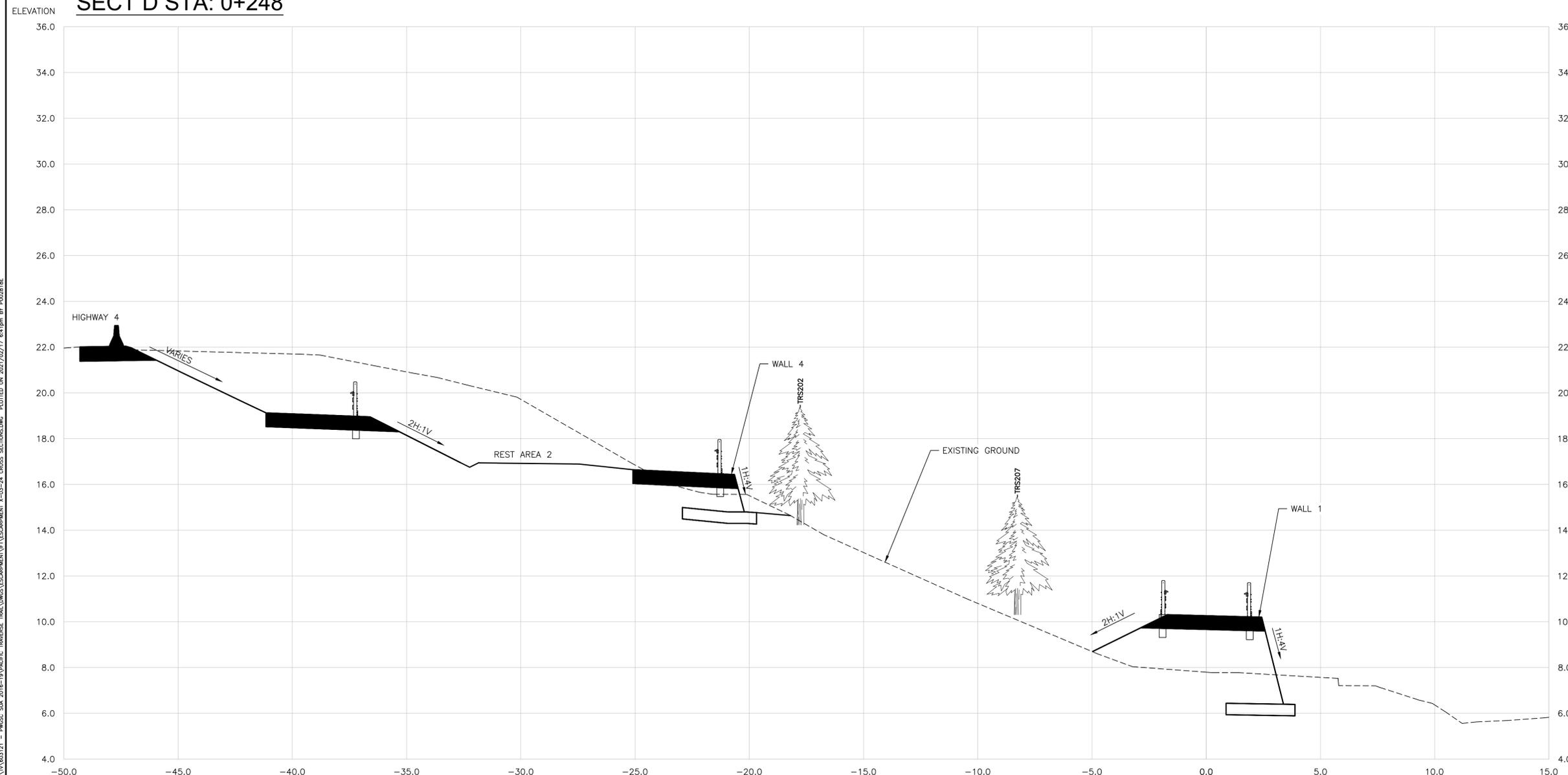


PARSONS



KEY PLAN
NTS

SECT D STA: 0+248



SECTION
1:100 HOR - 1:100 VER

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

Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/02/18

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

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

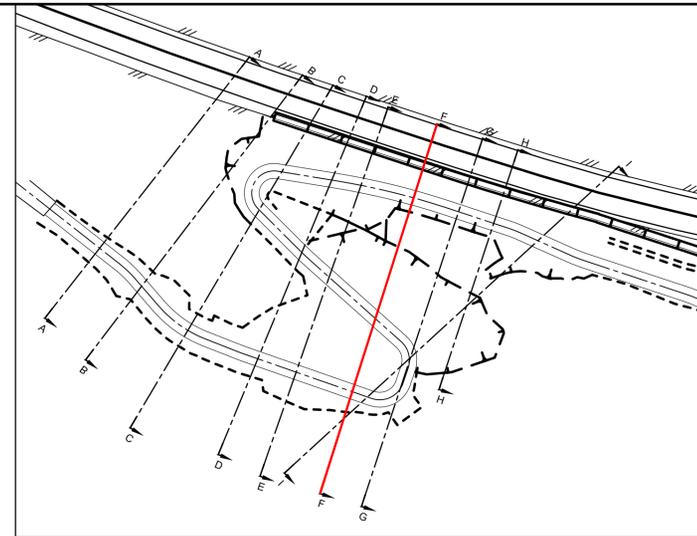
Consultant Signature Only
Designed by/Concept par
DARRYL FUREY / ANDREW KWIATKOWSKI
Drawn by/Dessine par
MICHAEL GIANG
PCA Project Manager/Technical Authority
Administrateur de Projets APC
JACKIE HICKS

Drawing title/Titre du dessin
**WAYII AREA TRAIL DESIGN
SLOPE SECTION D
STA 0+248**

Project No./No. du projet PCA #1522	Sheet/Feuille X-06 OF	Revision no./La Révision no. 0
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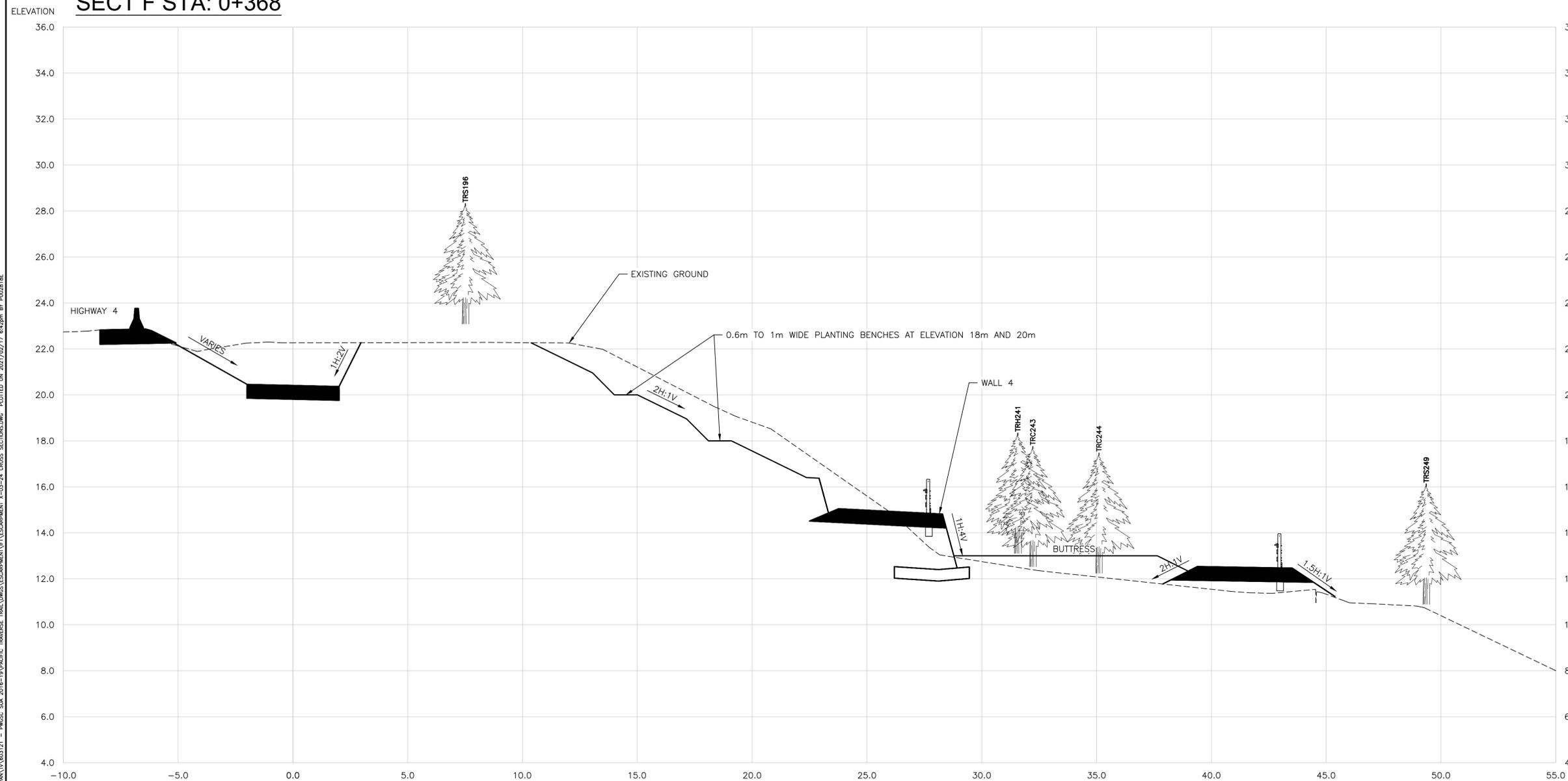


PARSONS



KEY PLAN
NTS

SECT F STA: 0+368



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

Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/02/18

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

Project title/Titre du projet
TOFINO
PACIFIC RIM NATIONAL PARK RESERVE
ᑕᐱᓂᓕᓕᓕ ᓂᓕᓕᓕ
(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

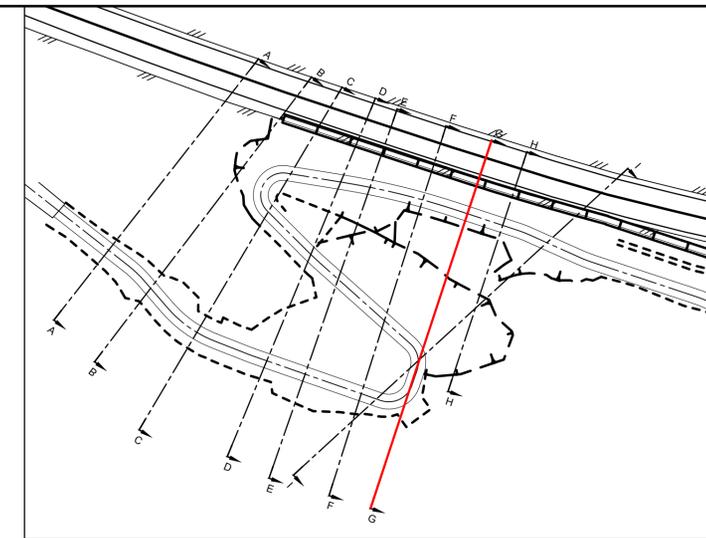
Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
SLOPE SECTION F
STA 0+368

Project No./No. du projet PCA #1522	Sheet/Feuille X-08 OF	Revision no./La Révision no. 0
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\\cads0501\WAYII\WAYII_03121 - PWGSC_S&A_2018-10\PACIFIC_RIM_PACIFIC_RIM_WAYII_ESCAPMENT_VT_ESCAPMENT 1-03-24 CROSS SECTIONS.DWG PLOTTED ON 2021/02/17 8:42pm BY P02618E

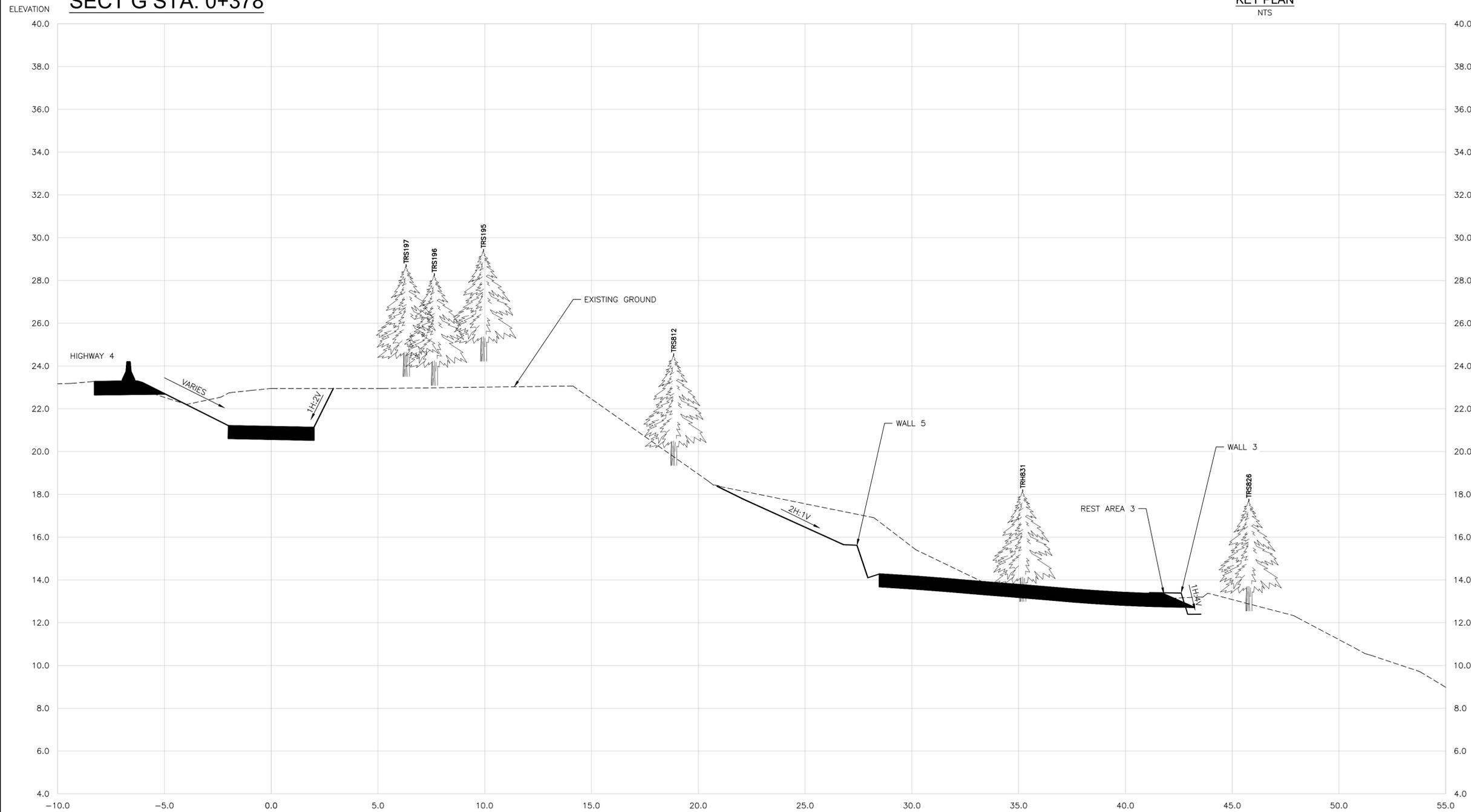


PARSONS



KEY PLAN
NTS

SECT G STA: 0+378



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



Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/02/18

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

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
SLOPE SECTION G
STA 0+378

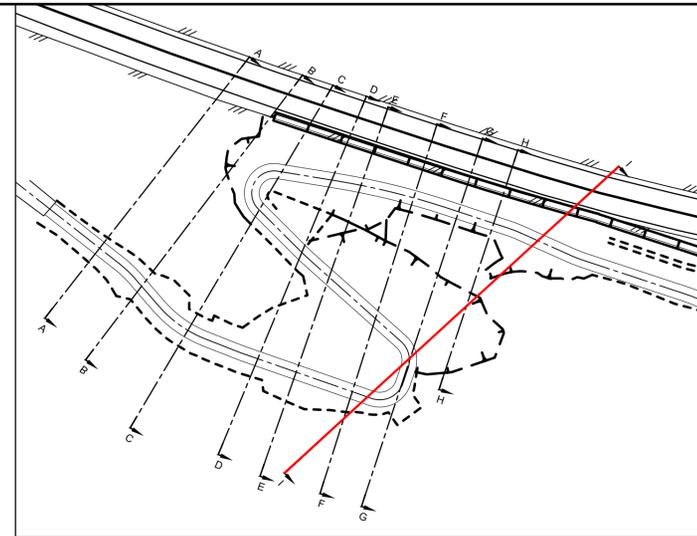
Project No./No. du projet PCA #1522	Sheet/Feuille X-09 OF	Revision no./La Révision no. 0
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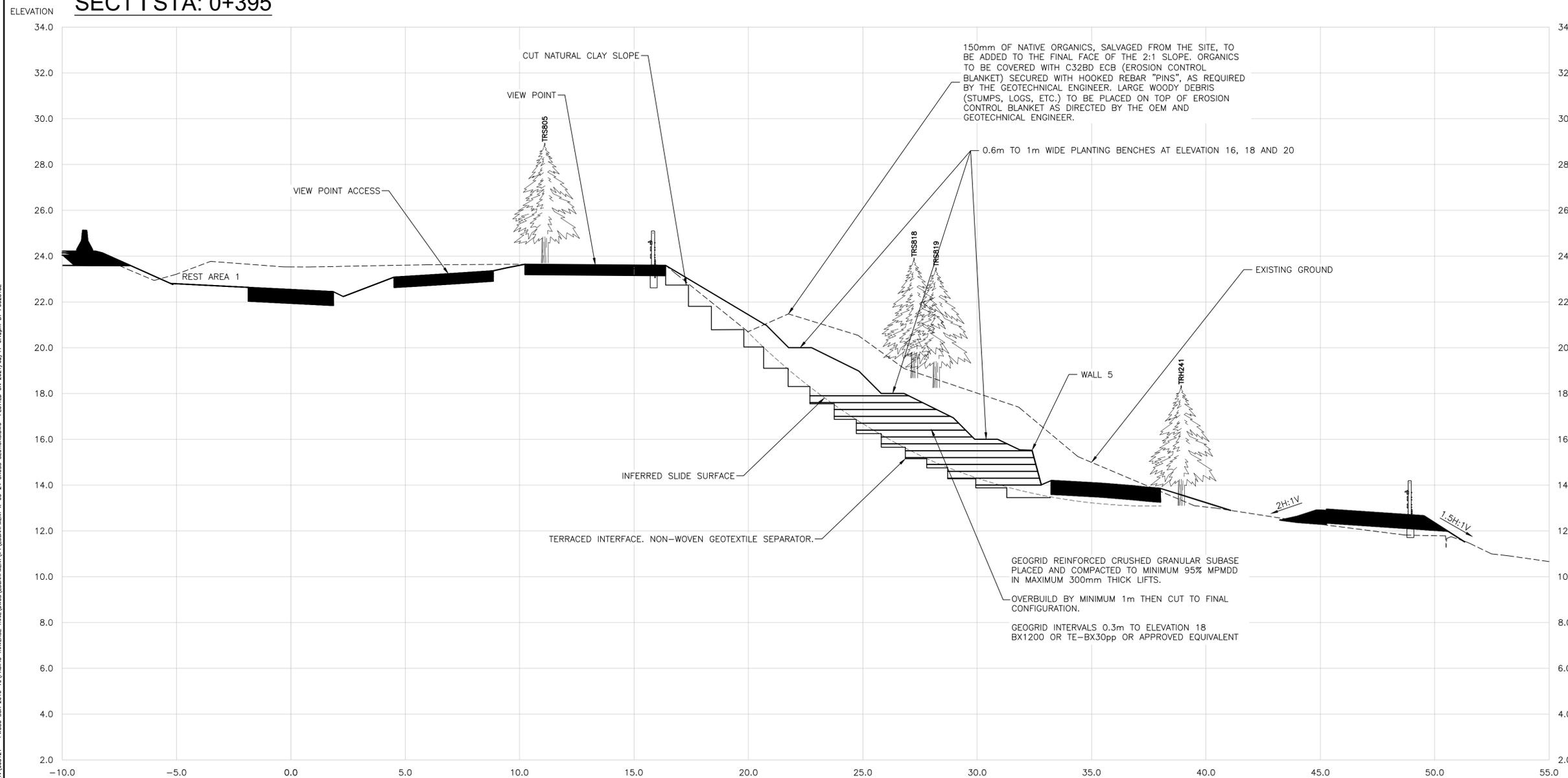
PARSONS

wsp



KEY PLAN
NTS

SECT I STA: 0+395



Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/02/18

	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
ᑎᐱᓂᓕᓴᓴᓴ ᓂᐱᓴᓴ
(Ups-cheek ta-shee)
"Going in the right direction on the trail"

Consultant Signature Only

Designed by/Concept par
DARRYL FUREY / ANDREW KWATKOWSKI

Drawn by/Dessiné par
MICHAEL GIANG

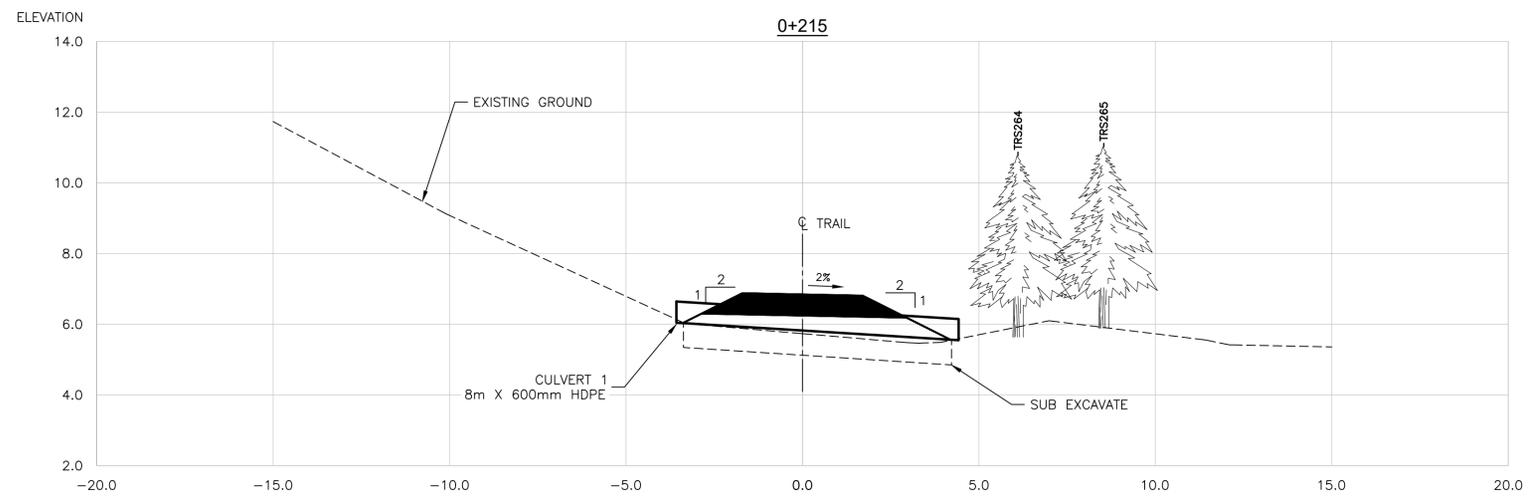
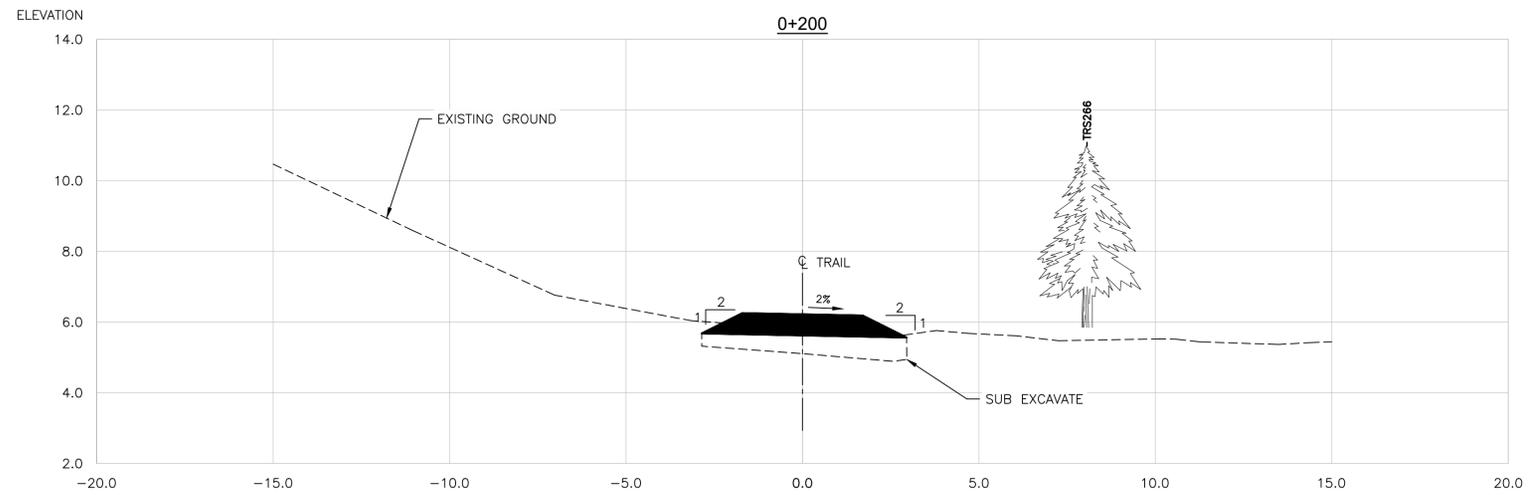
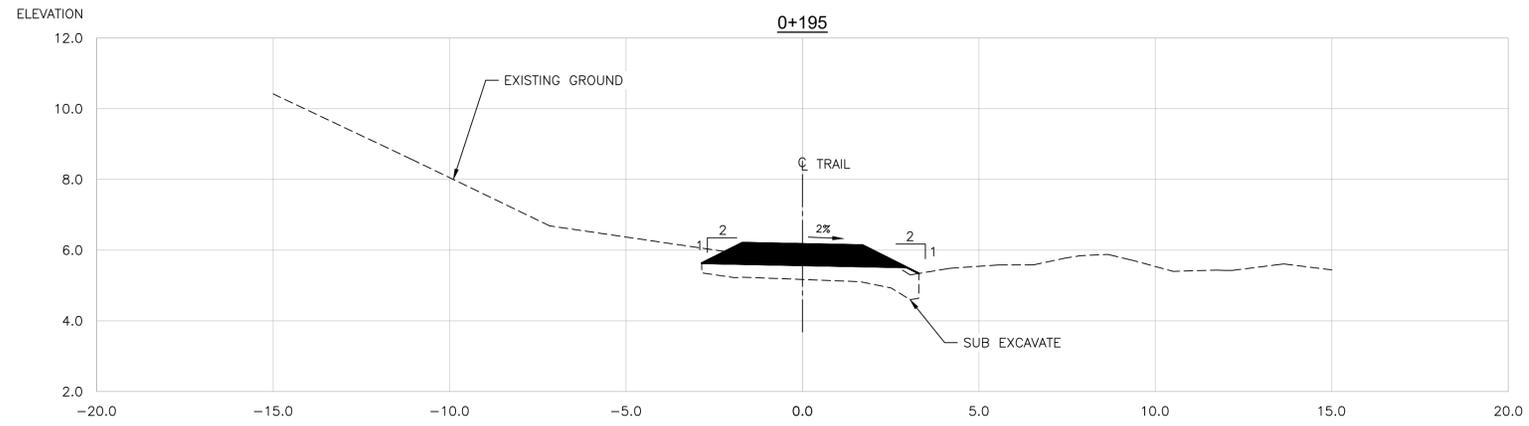
PCA Project Manager/Technical Authority
Administrateur de Projets APC
JACKIE HICKS

Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
SLOPE SECTION I
STA 0+395

Project No./No. du projet PCA #1522	Sheet/Feuille X-11 OF	Revision no./La Révision no. 0
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PARSONS



SECTION
1:100 HOR - 1:100 VER

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

Revision/	Description/Description	Date/Date
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
ᑕᐱᓂᓕᓕᓕᓕ ᓂᓕᓕᓕᓕ
(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

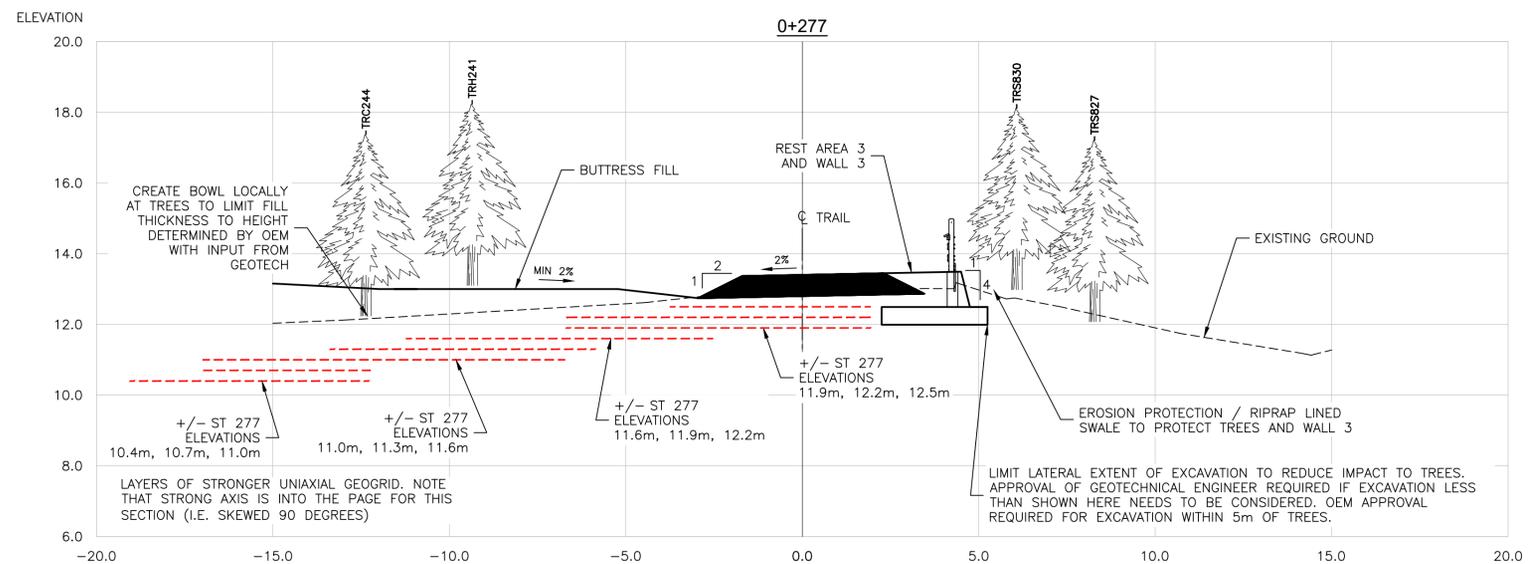
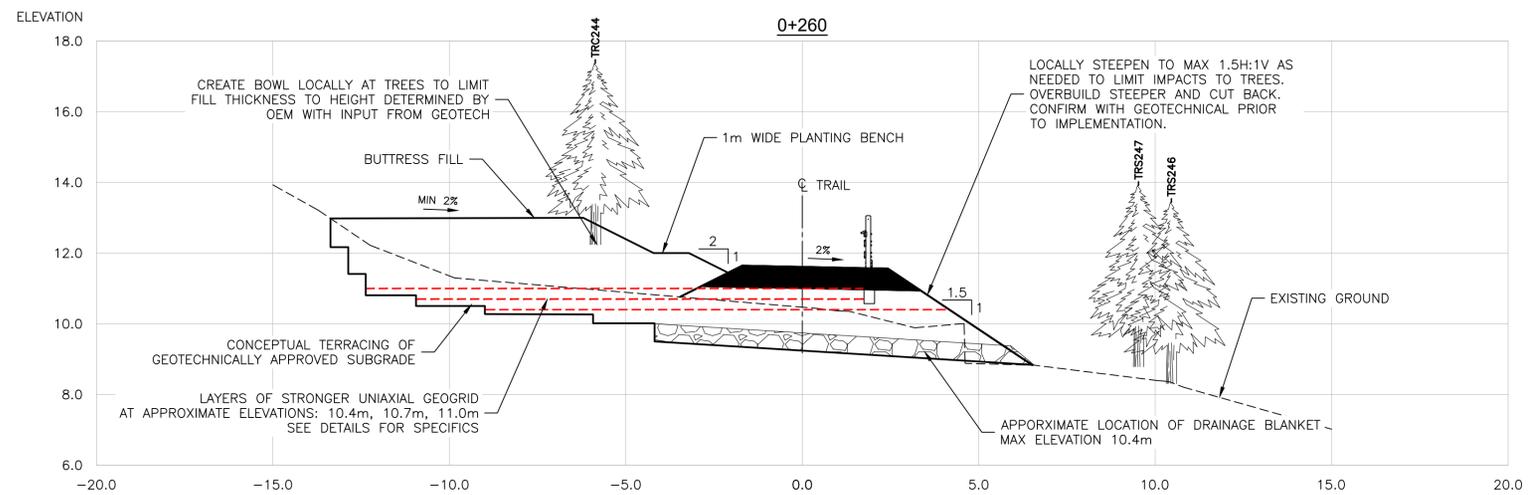
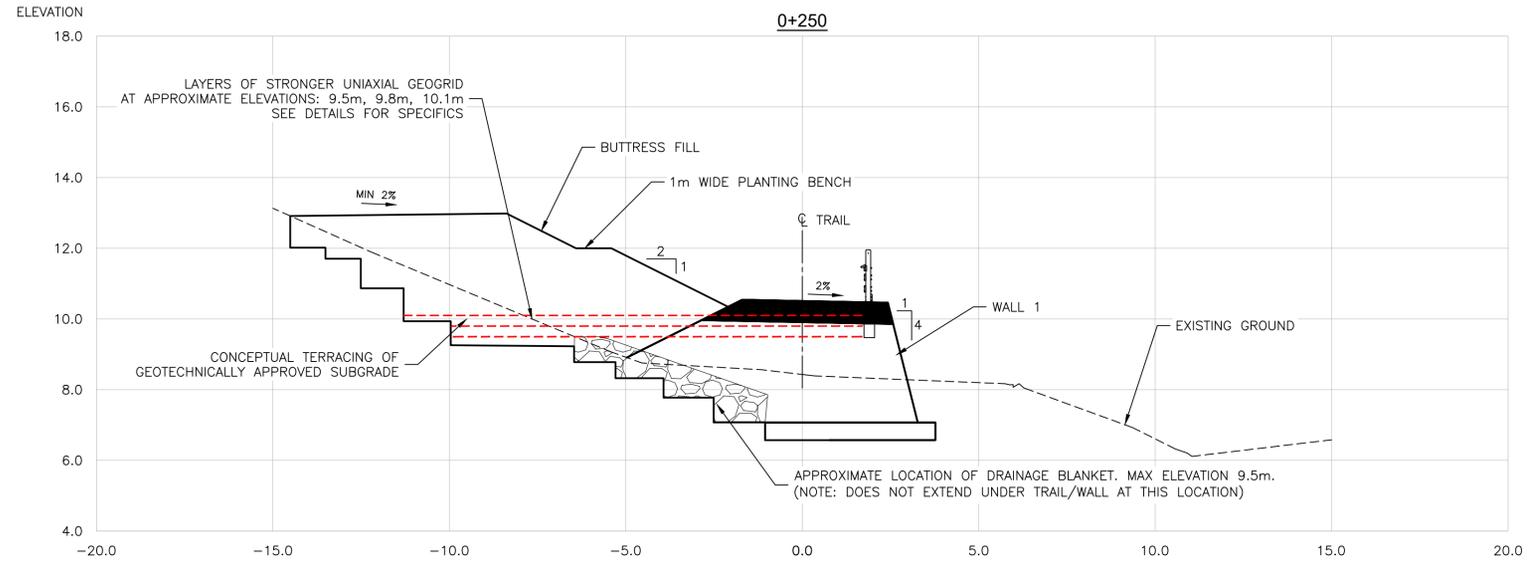
Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
TRAIL SECTIONS
STA 0+195 TO STA 0+210

Project No./No. du projet PCA #1522	Sheet/Feuille X-12 OF	Revision no./La Révision no. 0
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\\cas068501\WAYII\WAYII_03121 - PWGSC - SIA - 2018 - 01\PACIFIC RIM\RESERVE TRAIL\WAYII\ESCAPEMENT_V1\ESCAPEMENT_V1-03-24_CROSS SECTIONS.dwg PLOTTED ON 2021/02/17 8:43pm BY P02618E



PARSONS



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

Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/02/18

Client/Client	Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord du Canada
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Project title/Titre du projet
TOFINO
PACIFIC RIM NATIONAL PARK RESERVE
ᑕᐱᓂᓕᓕᓕ ᓂᓕᓕᓕ
(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

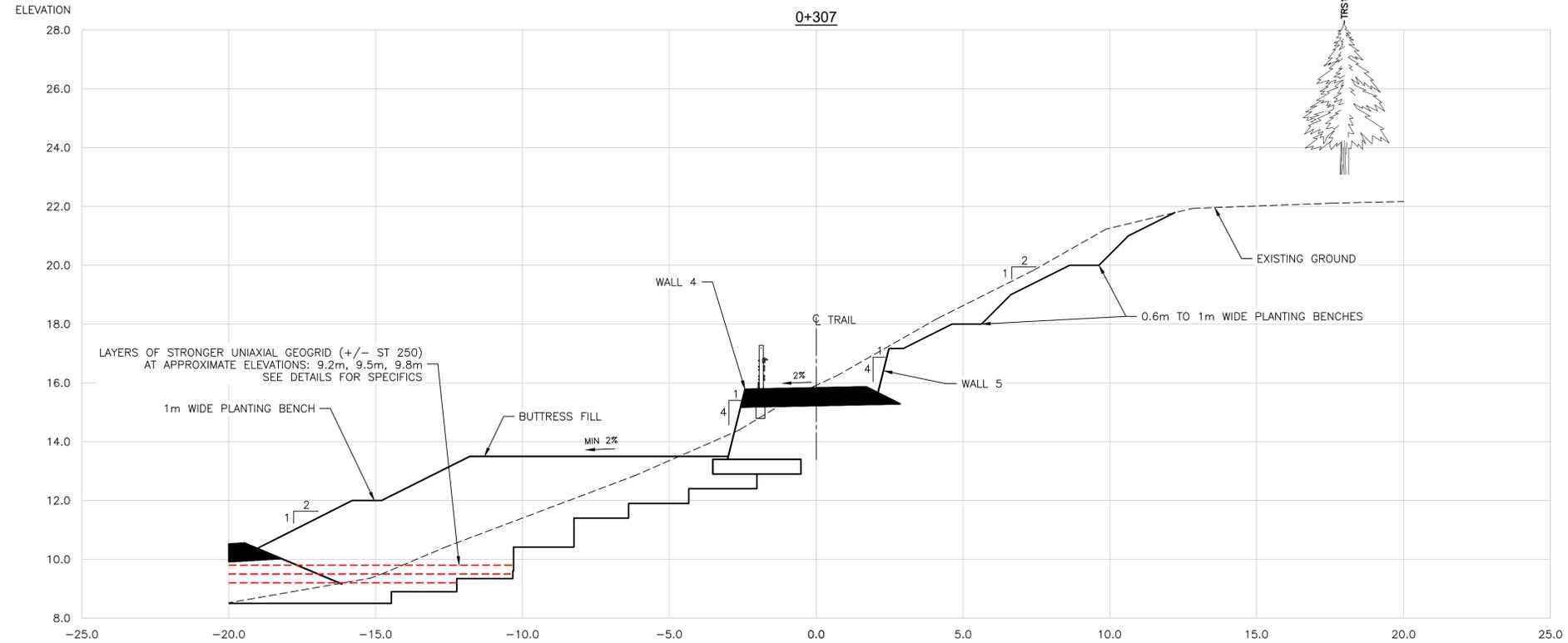
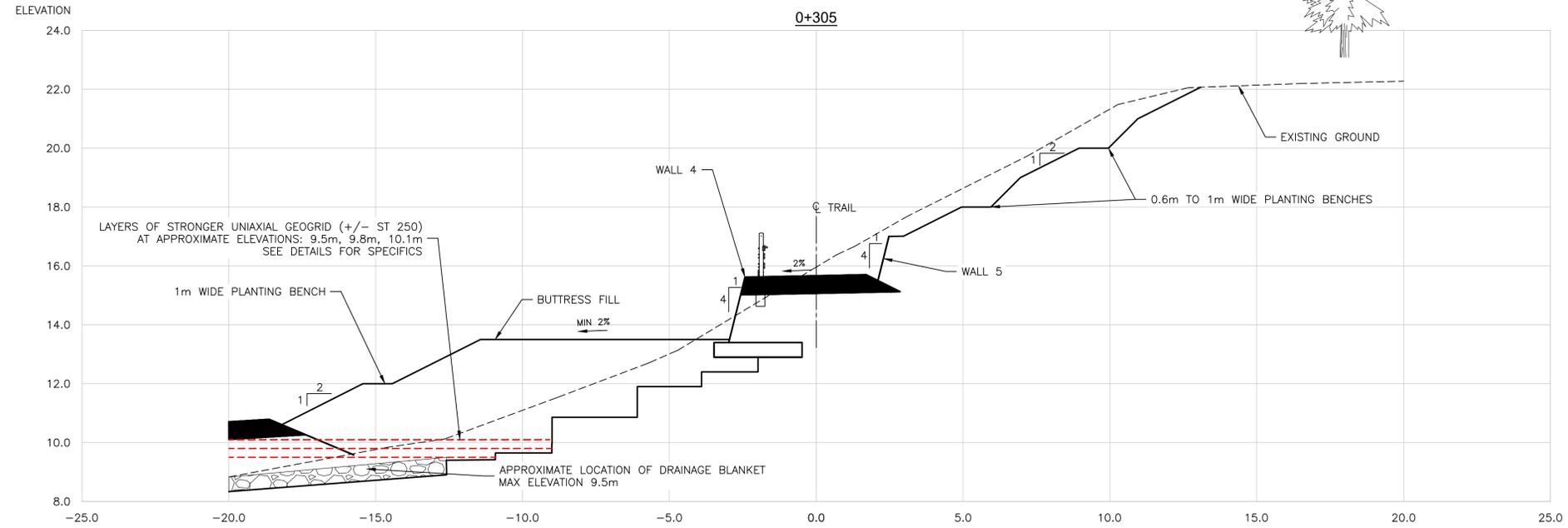
Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
TRAIL SECTIONS
STA 0+250 TO STA 0+277

Project No./No. du projet PCA #1522	Sheet/Feuille X-14 OF	Revision no./La Révision no. 0
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\\cas068503\WAYII\WAYII_03121 - PWGSC_S&A_2018-03\PACIFIC_RIM\RESERVE\TRAIL\WAYII\ESCAPEMENT_VT\ESCAPEMENT_VT-03-24_CROSS_SECTIONS.dwg PLOTTED ON 2021/02/17 8:43pm BY P02618E



PARSONS



SECTION
1:100 HOR - 1:100 VER

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

Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/02/18

Client/Client	Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord du Canada
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Project title/Titre du projet
**TOFINO
PACIFIC RIM
NATIONAL PARK RESERVE
ᑕᐱᓂᑦᑕᑦᑕ ᑕᐱᓂᑦᑕ
(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

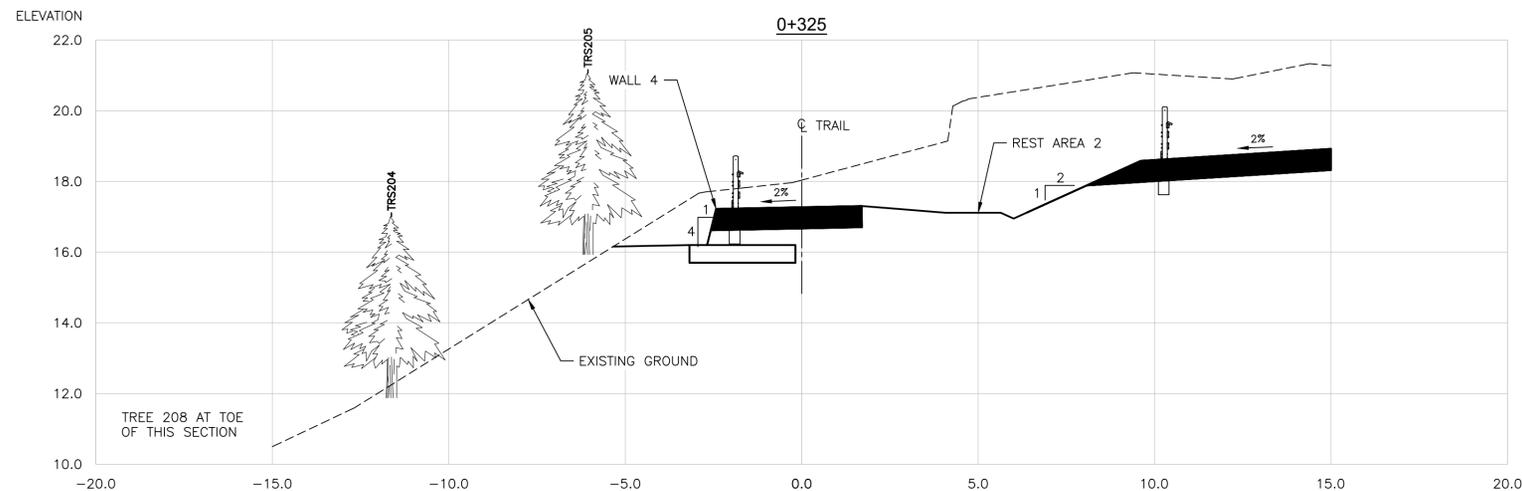
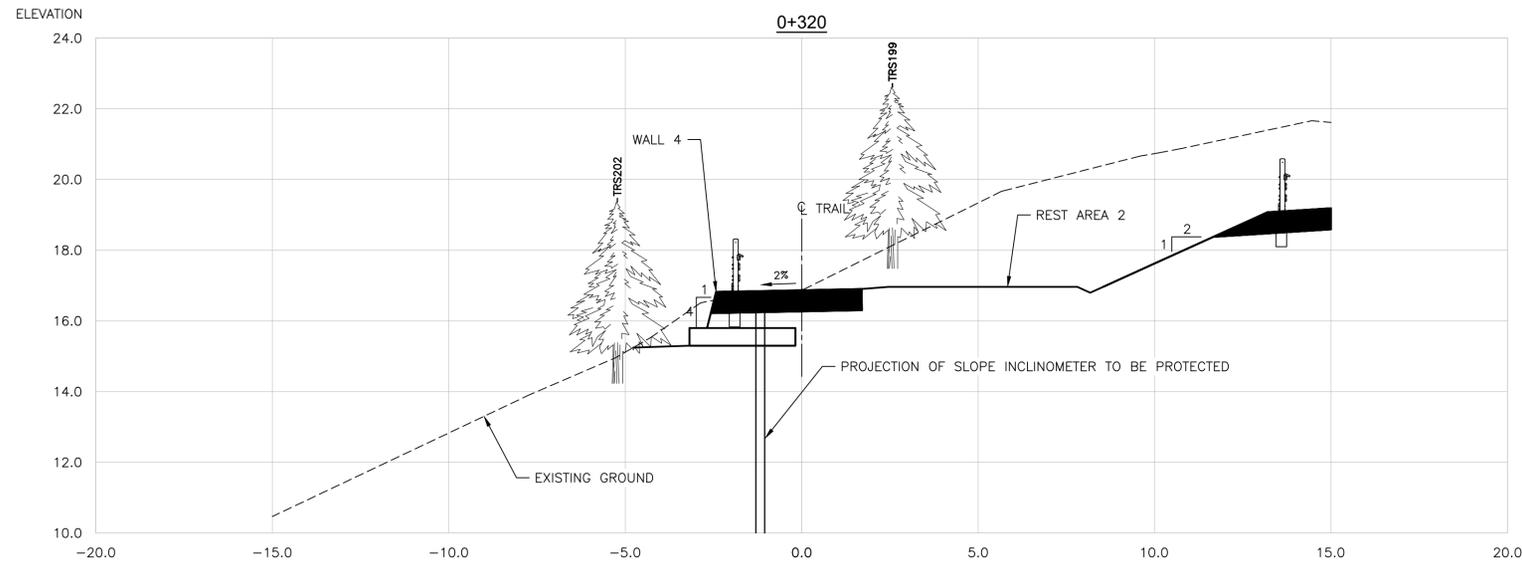
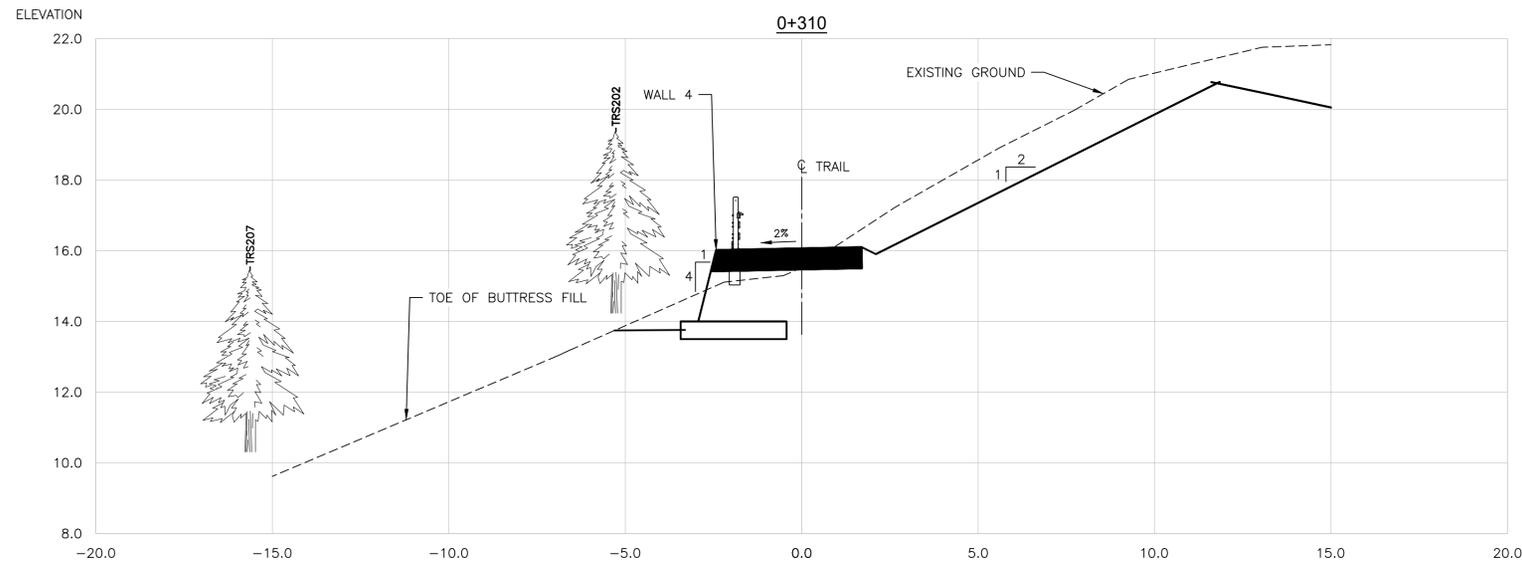
Drawing title/Titre du dessin
**WAYII AREA TRAIL DESIGN
TRAIL SECTIONS
STA 0+305 TO STA 0+307**

Project No./No. du projet PCA #1522	Sheet/Feuille X-16 OF	Revision no./La Révision no. 0
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\\VCS068583\WAYII\WAYII_03121 - PWSC - SIA - 2018 - P\WAYII - P\WAYII ESCARPMENT\UT ESCARPMENT - 03-24 CROSS SECTIONS\DWG - PLOTTED ON 2021/02/17 8:43pm BY P02618E



PARSONS



SECTION
1:100 HOR - 1:100 VER

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

Revision/	Description/Description	Date/Date
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 ᑕᐱᓂᓕᓴᓴ ᓂᐱᓴᓴ (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

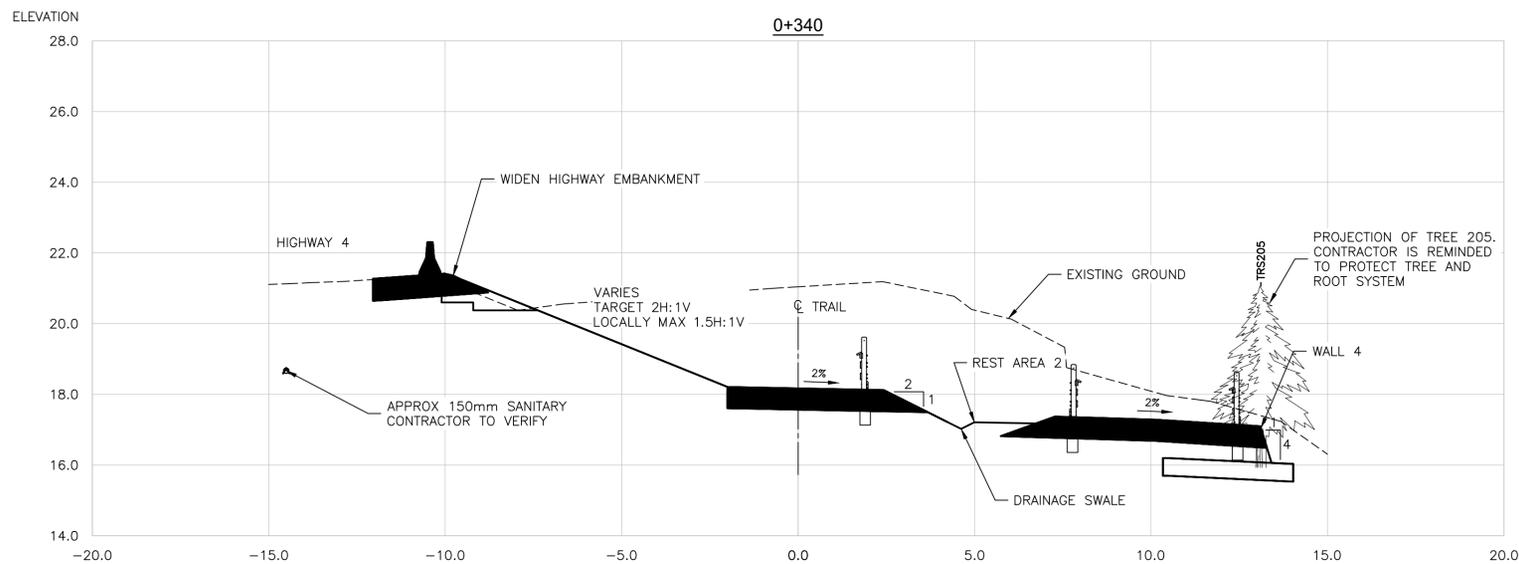
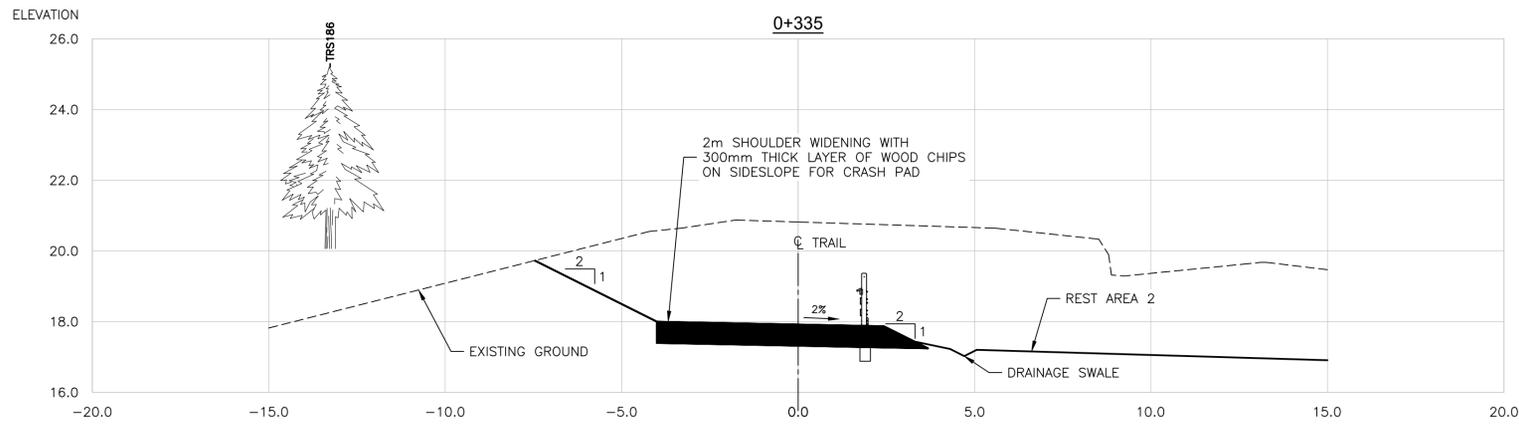
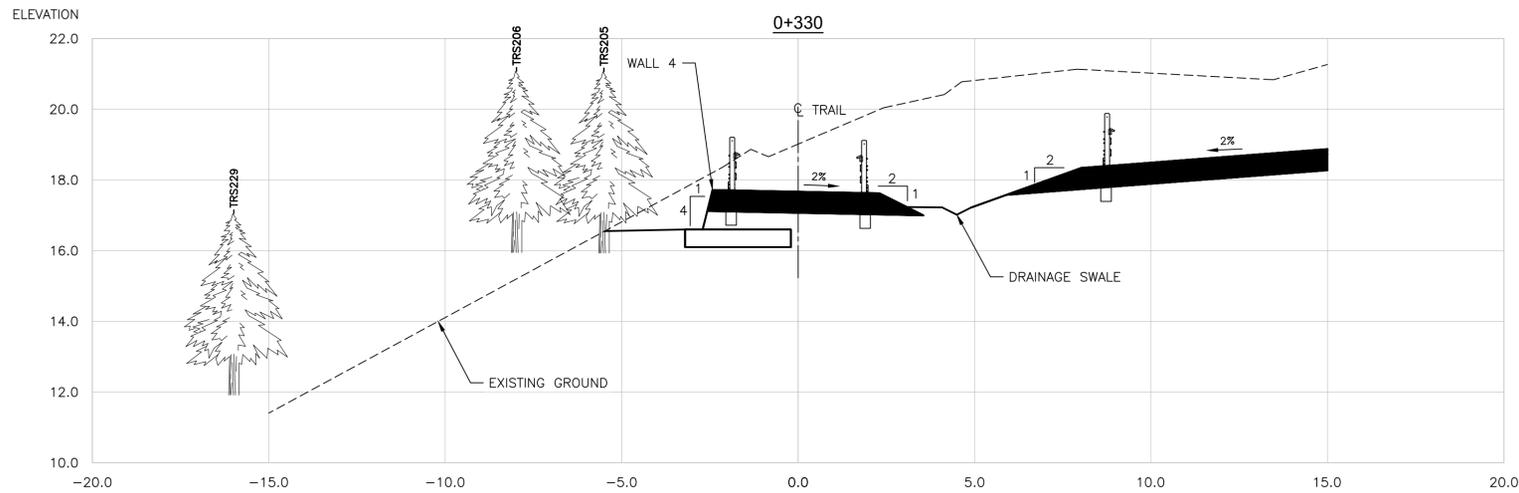
Drawing title/Titre du dessin	WAYII AREA TRAIL DESIGN TRAIL SECTIONS STA 0+310 TO STA 0+325
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Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
PCA #1522	X-17 OF	0

\\VCS068503\WAYII\WAYII_03121 - PWISC_S&A_2018-10\PACIFIC_RIM\RESERVE\TRAIL\WAYII\ESCAPEMENT_VT\ESCAPEMENT_VT-03-24_CROSS_SECTIONS.dwg PLOTTED ON 2021/02/17 8:43pm BY P052618E



PARSONS



SECTION
1:100 HOR - 1:100 VER

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

Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/02/18

	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
ᑕᐱᓂᓕᓕᓕ ᓂᓕᓕᓕ
(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

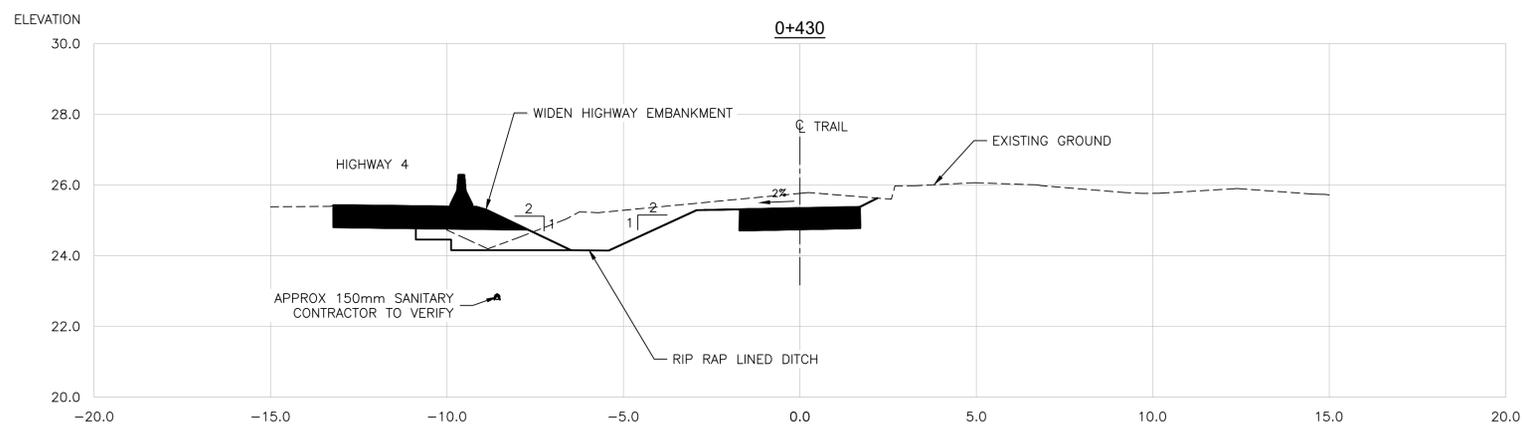
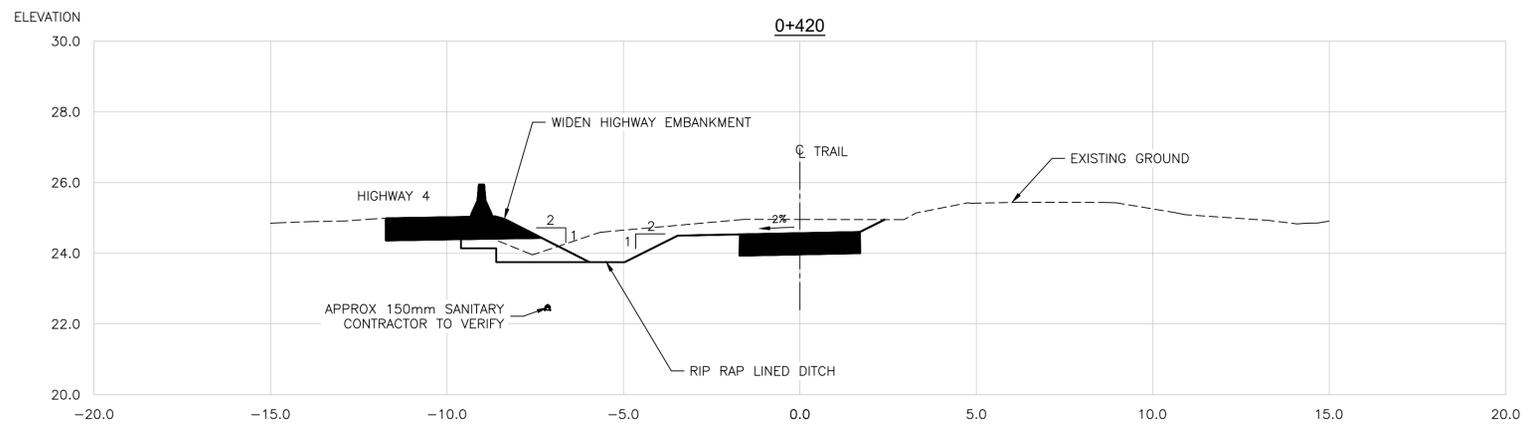
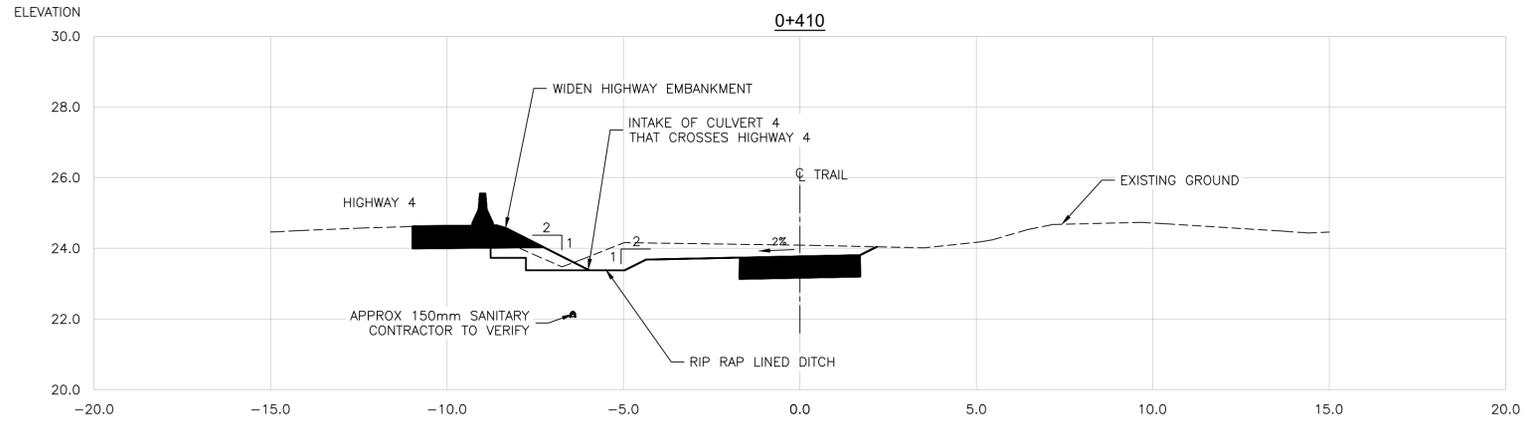
Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
TRAIL SECTIONS
STA 0+330 TO STA 0+340

Project No./No. du projet PCA #1522	Sheet/Feuille X-18 OF	Revision no./La Révision no. 0
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\\ccas0501\WAYII\WAYII_03121 - PWS - S.A. 2018 - P\PROJECT - TRAIL\WAYII ESCARPMENT\T\ESCAPMENT - 03-24 CROSS SECTIONS.dwg PLOTTED ON 2021/02/17 8:43pm BY PWS2818E



PARSONS



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

Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/02/18

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

Project title/Titre du projet
TOFINO
PACIFIC RIM NATIONAL PARK RESERVE
ᑕᐱᓂᓕᓕᓕ ᓂᓕᓕᓕ
(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

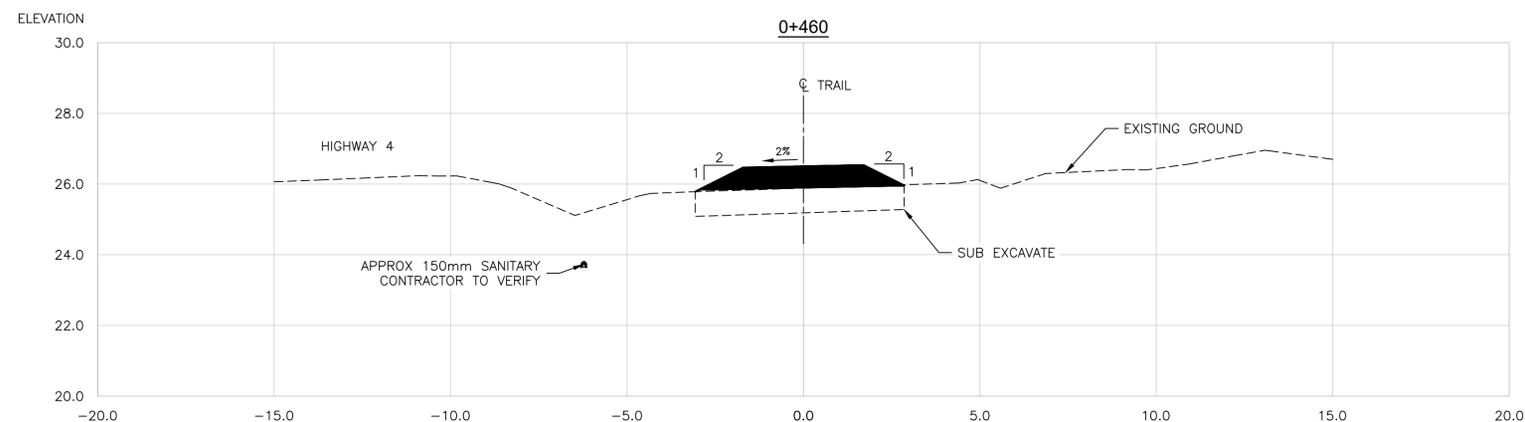
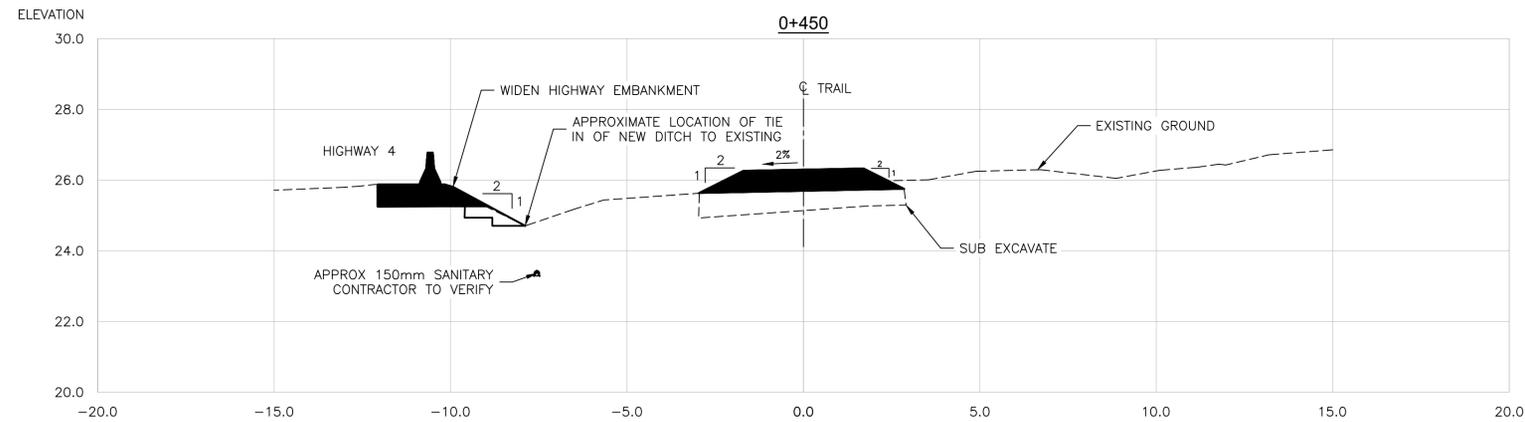
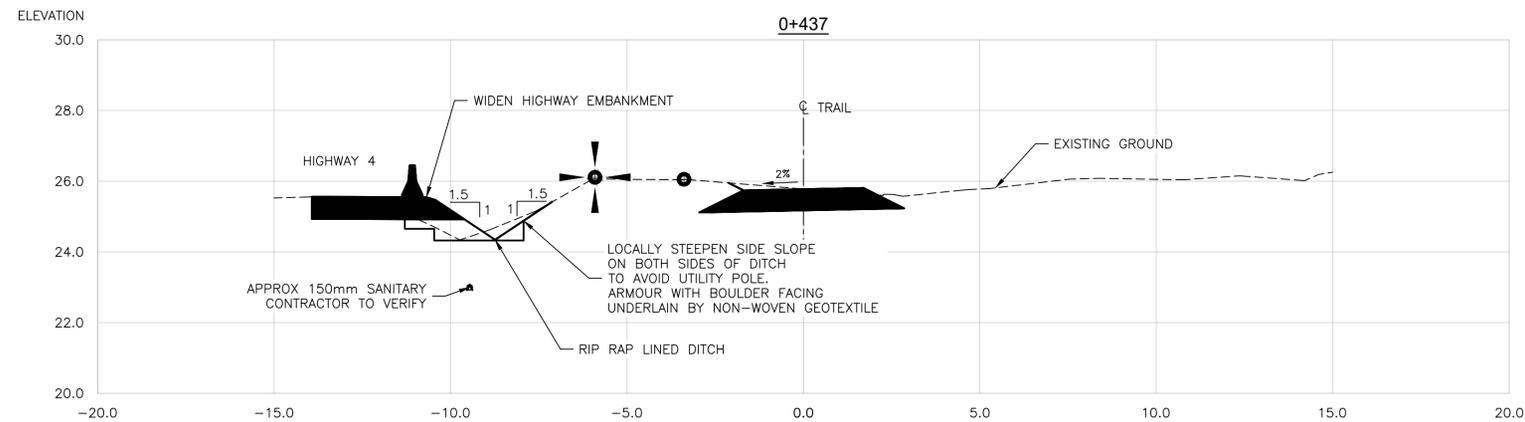
Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
TRAIL SECTIONS
STA 0+410 TO STA 0+430

Project No./No. du projet PCA #1522	Sheet/Feuille X-21 OF	Revision no./La Révision no. 0
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\\VCS0685031\WAYII\WAYII_03121 - PWSC - SIA - 2018 - 01 - PACIFIC RIM/PACIFIC RIM/RESERVE TRAIL/WAYS/ESCAPEMENT/UT/ESCAPEMENT - 1-03-24 CROSS SECTIONS.DWG PLOTTED ON 2021/02/17 8:44pm BY P02618E



PARSONS



SECTION
1:100 HOR - 1:100 VER

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

Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/02/18

	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
ᑕᐱᓂᓕᓴᓴ ᓂᐱᓴᓴ
(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

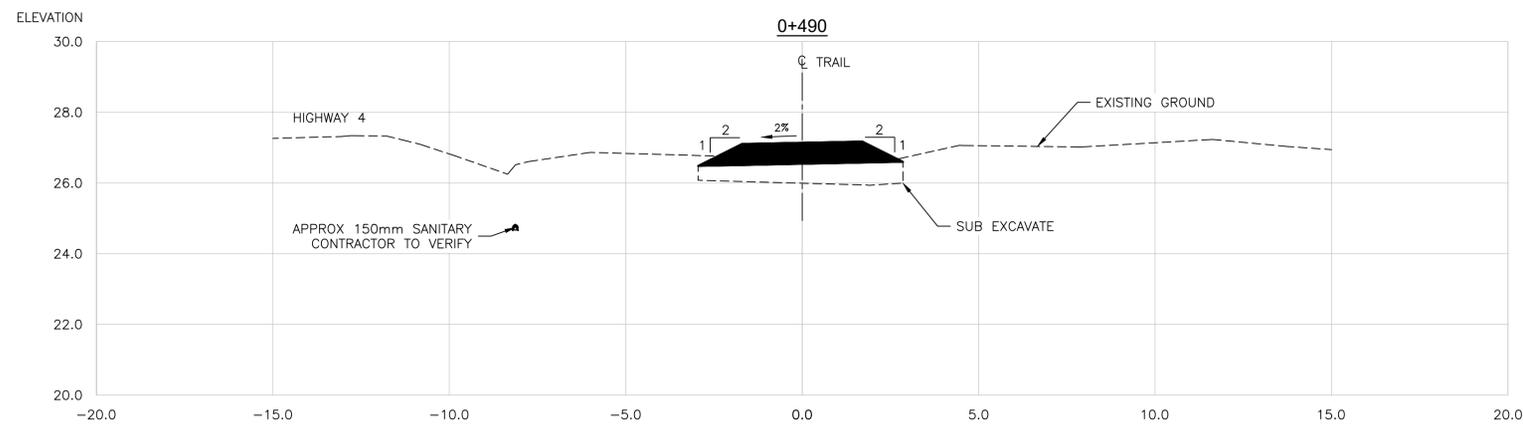
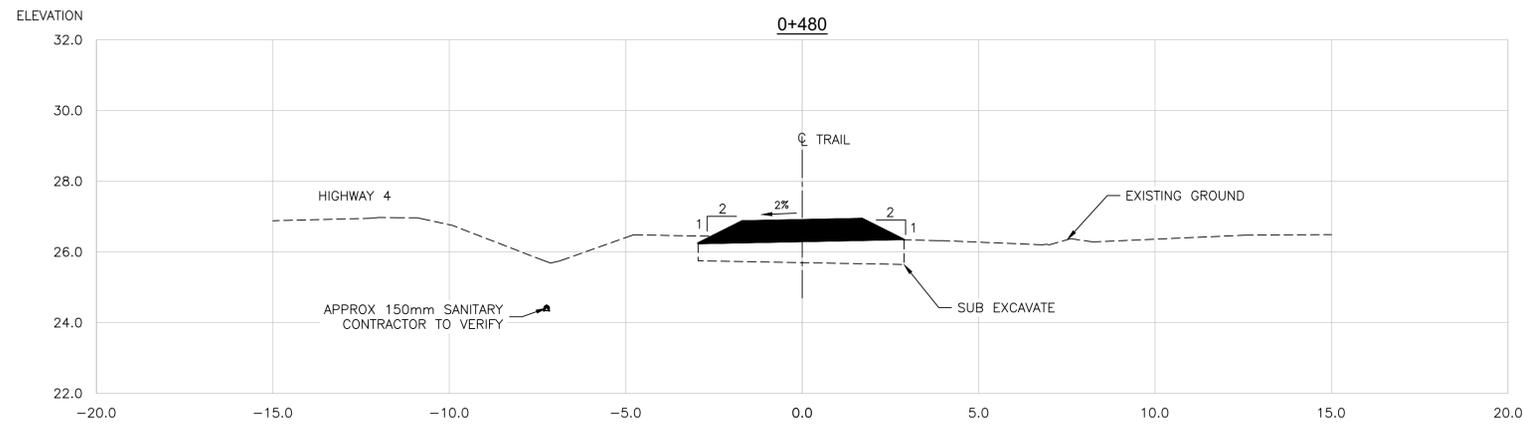
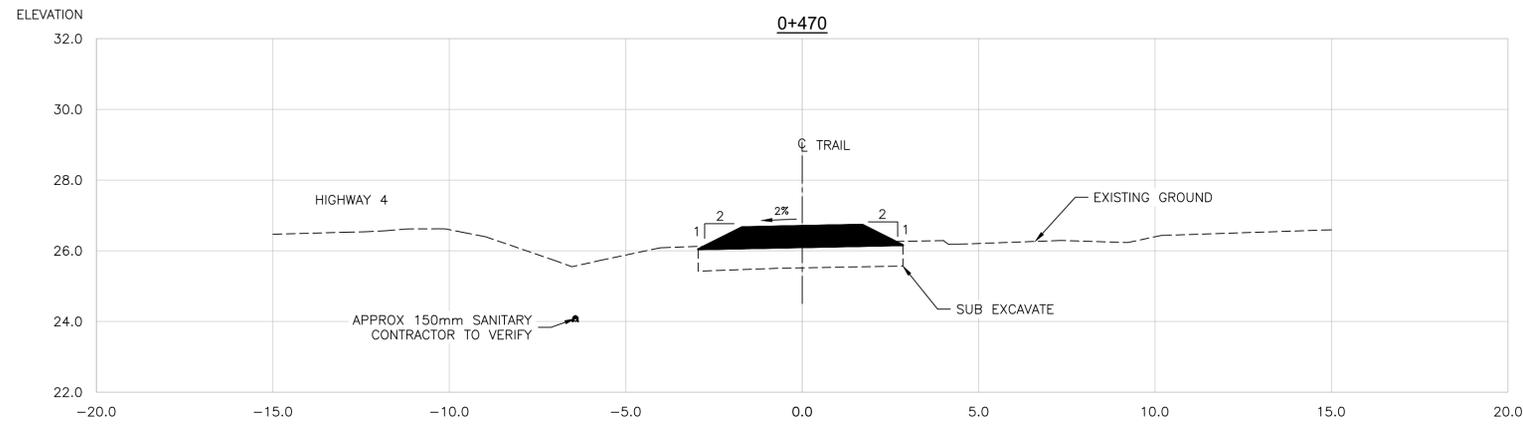
Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
TRAIL SECTIONS
STA 0+437 TO STA 0+460

Project No./No. du projet PCA #1522	Sheet/Feuille X-22 OF	Revision no./La Révision no. 0
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\\VCS068503\WAYII\WAYII_03121 - PWGSC_S&A_2018-03\PACIFIC_RIM_PACIFIC_RIM_WAYII_AREA_ESCAPEMENT_VT\ESCAPEMENT_VT-03-24_CROSS_SECTIONS\DWG_PLOTTED_ON_2021/02/17_8:44pm_BY_P02618E



PARSONS



SECTION
1:100 HOR - 1:100 VER

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

Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/02/18

	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
ᑕᐱᓂᓕᓕᓕ ᓂᓕᓕᓕ
(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

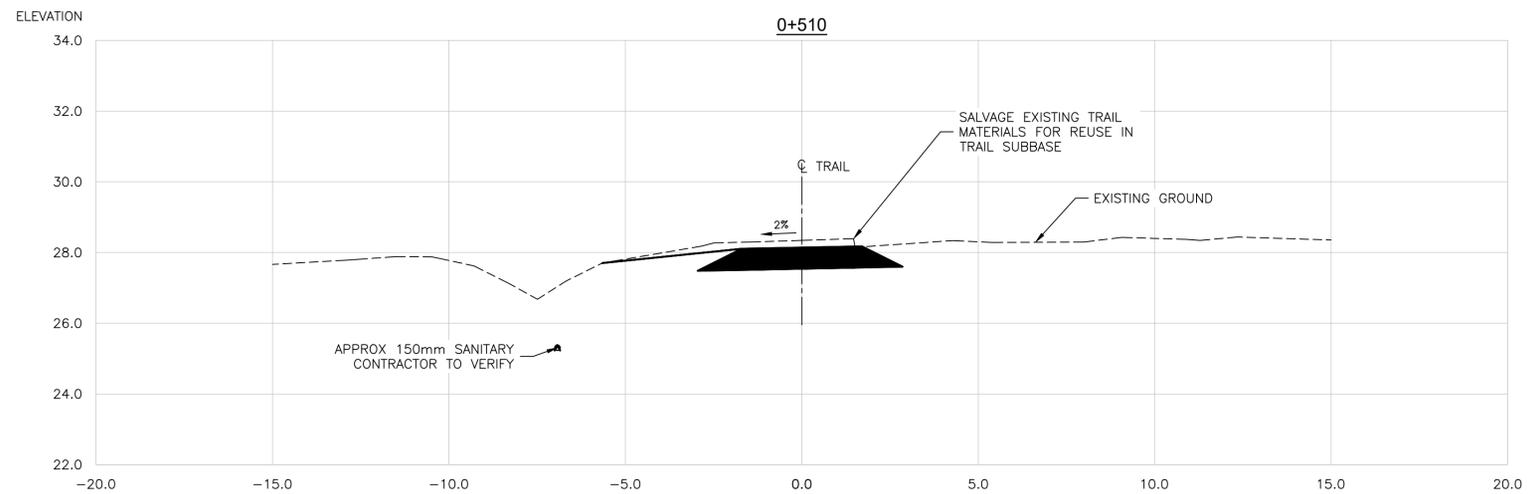
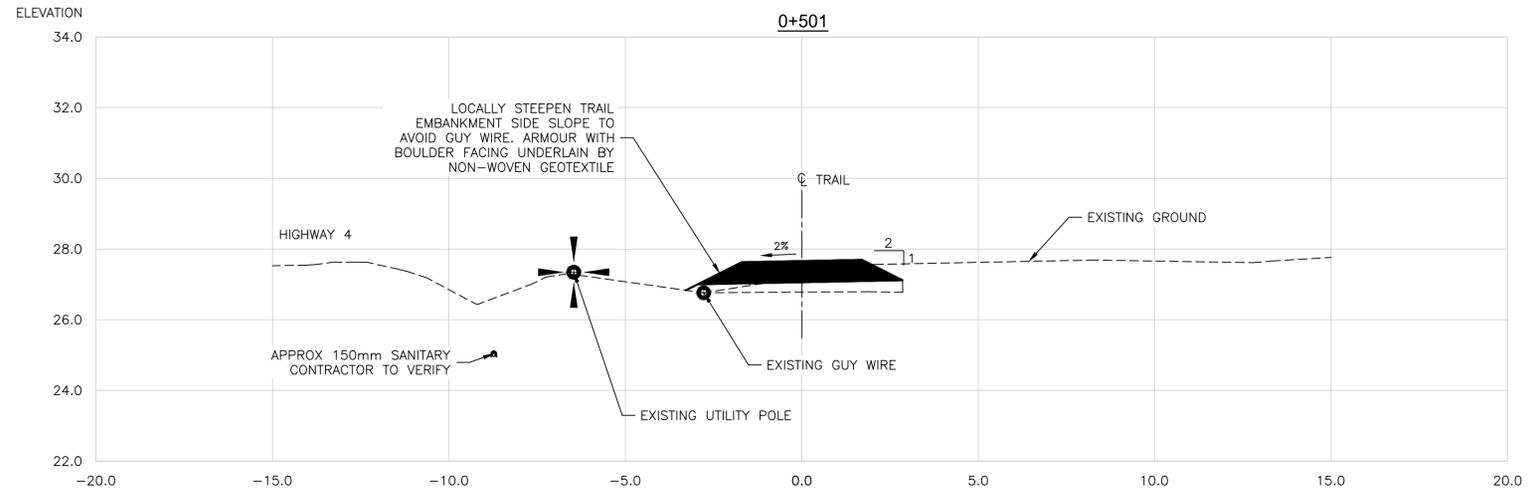
Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
TRAIL SECTIONS
STA 0+470 TO STA 0+490

Project No./No. du projet PCA #1522	Sheet/Feuille X-23 OF	Revision no./La Révision no. 0
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\\VCS068503\WAYII\WAYII_03121 - PWSC - SIA - 2018 - 01 - PACIFIC RIM/PACIFC RIM/RESERVE TRAIL/WAYS ESCARPMENT/UT ESCARPMENT - 1-03-24 CROSS SECTIONS.DWG PLOTTED ON 2021/02/17 8:44pm BY P02618E



PARSONS



SECTION
1:100 HOR - 1:100 VER

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

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Revision/Description/Date/Date

Client/Client		
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MICHAEL GIANG

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

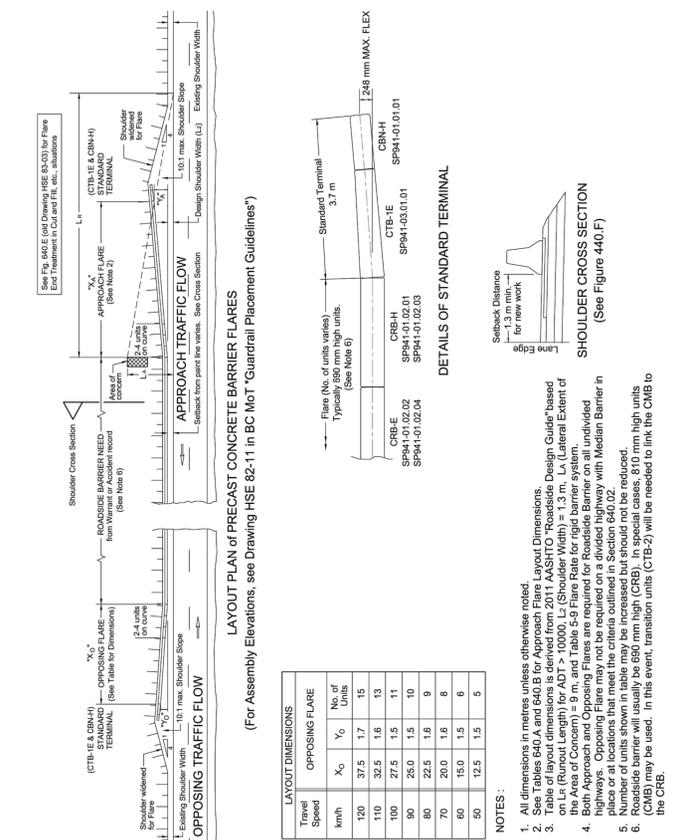
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WAYII AREA TRAIL DESIGN
TRAIL SECTIONS
STA 0+501 TO STA 0+510

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
PCA #1522	X-24 OF	0

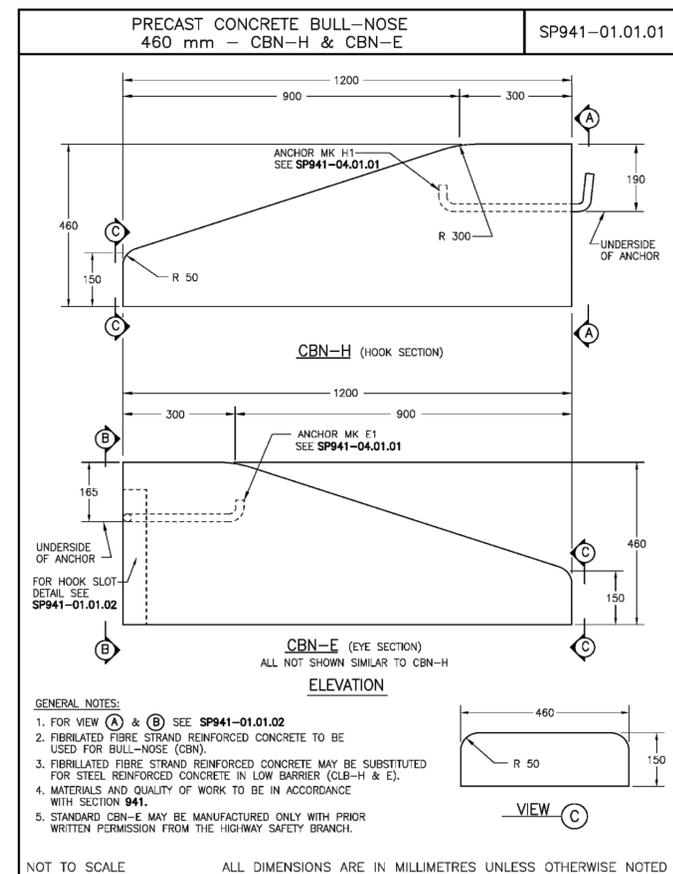
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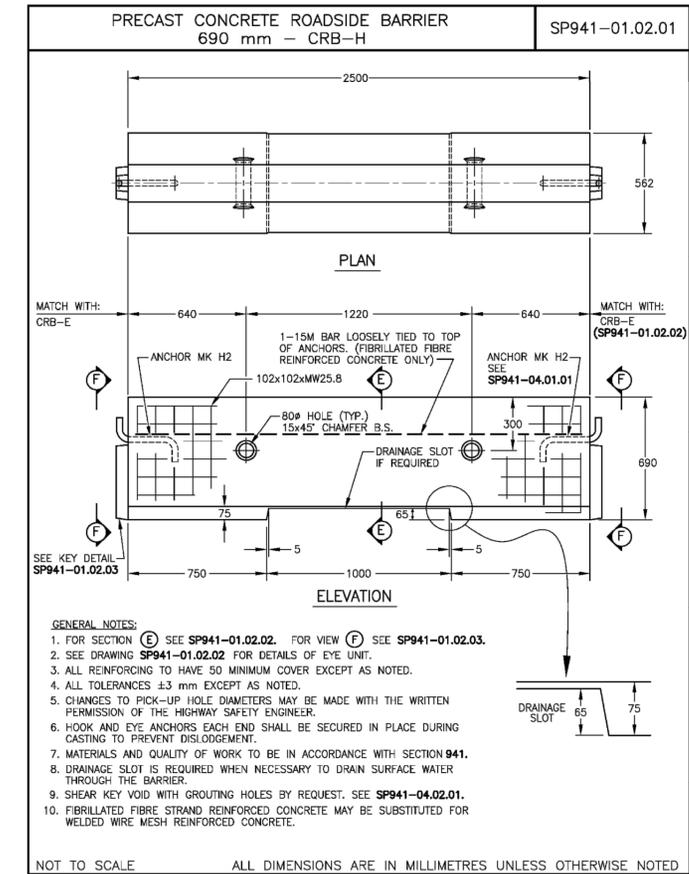
Figure 640.C Standard Layout of Flares and Terminals for Concrete Roadside Barriers
N.T.S. (old HSE 82-07A)



SECTION 941 PRECAST REINFORCED CONCRETE BARRIERS



SECTION 941 PRECAST REINFORCED CONCRETE BARRIERS



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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-shee)
"Going in the right
direction on the trail"**

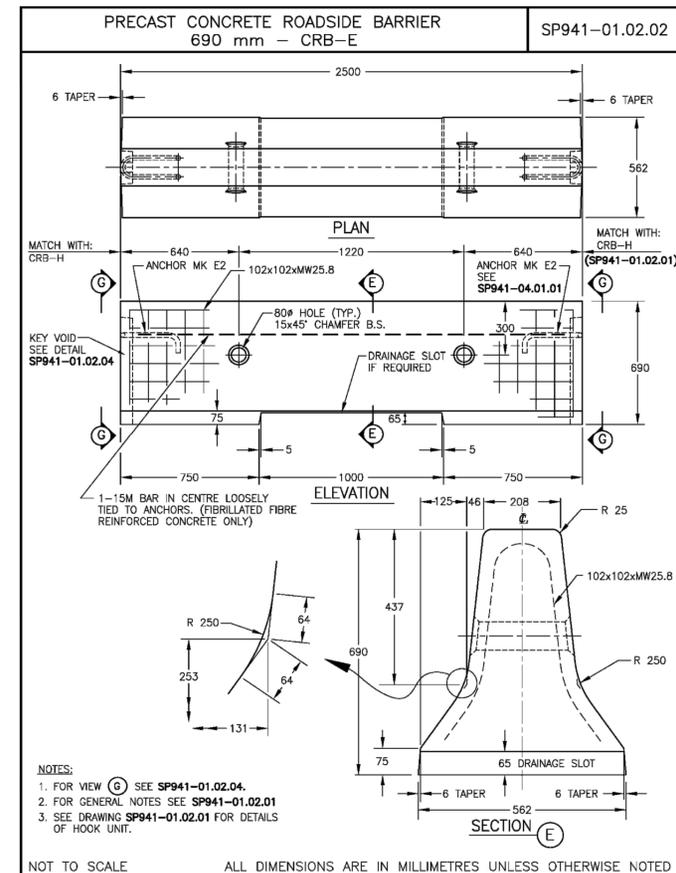
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Designed by/Concept par
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Drawn by/Dessiné par
MICHAEL GIANG
PCA Project Manager/Technical Authority
Administrateur de Projets APC
JACKIE HICKS

Drawing title/Titre du dessin
**WAYII AREA TRAIL DESIGN
BARRIER DETAILS 1**

Project No./No. du projet PCA #1522	Sheet/Feuille SD-01 OF	Revision no./La Révision no. 0
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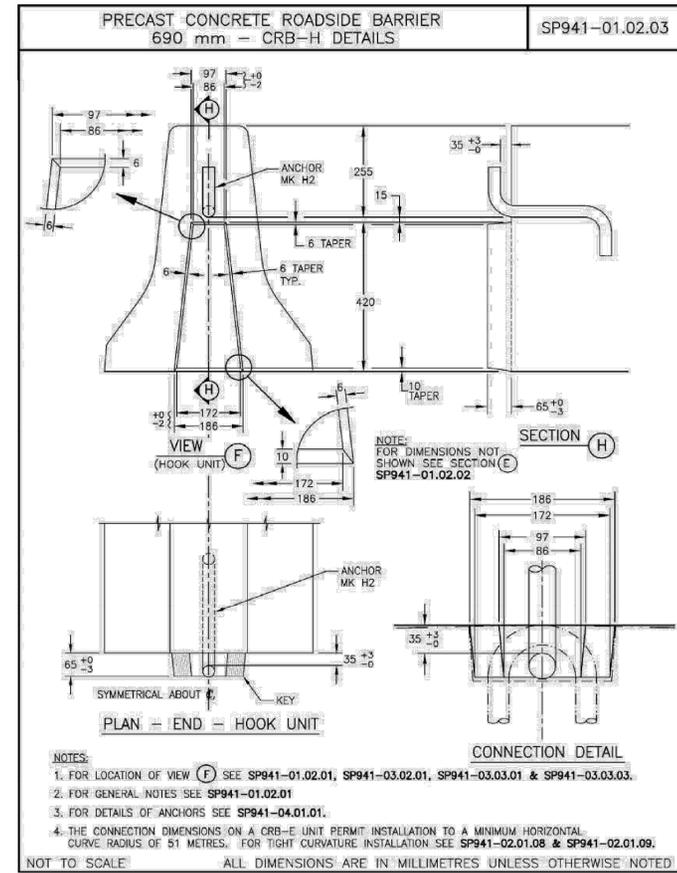


SECTION 941 PRECAST REINFORCED CONCRETE BARRIERS



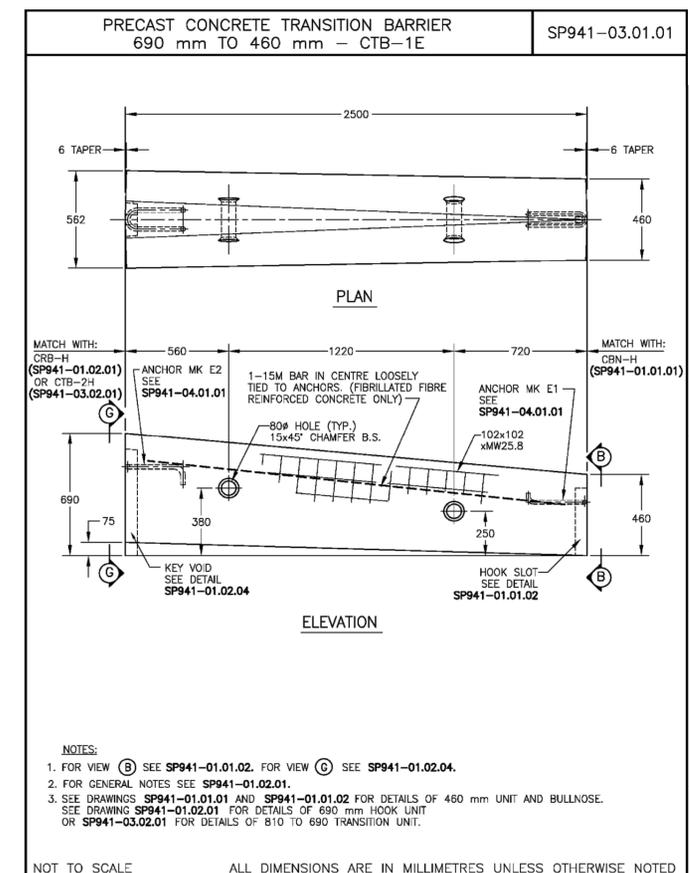
BC MoTI SS 2020 941 (7 of 30)
Vol. 2 Page 408 of 452

SECTION 941 PRECAST REINFORCED CONCRETE BARRIERS



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SECTION 941 PRECAST REINFORCED CONCRETE BARRIERS



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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

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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
BARRIER DETAILS 2

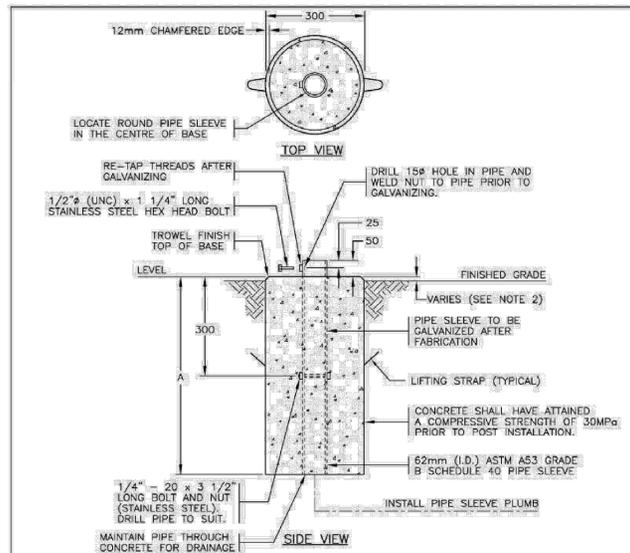
Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
PCA #1522	SD-02 OF	0



PARSONS



SECTION 635 ELECTRICAL AND SIGNING



BASE TYPE	APPLICATION	APPROXIMATE MASS	VOLUME OF CONCRETE	A
1	SINGLE POST SIGNS IN PAVED ISLANDS OR CONCRETE SIDEWALKS	100 kg	0.04 m ³	600
2	SINGLE OR TWO POST SIGNS IN GRAVEL SHOULDER	147 kg	0.06 m ³	800

- NOTES**
- SEE STANDARD SPECIFICATIONS & SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
 - BASE SHALL BE INSTALLED 25mm ABOVE FINISHED GRADE EXCEPT WHERE INSTALLED IN SIDEWALK IT SHALL BE FLUSH WITH TOP OF SIDEWALK WITH NO CHAMFERED EDGE.
 - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.



NOT TO SCALE

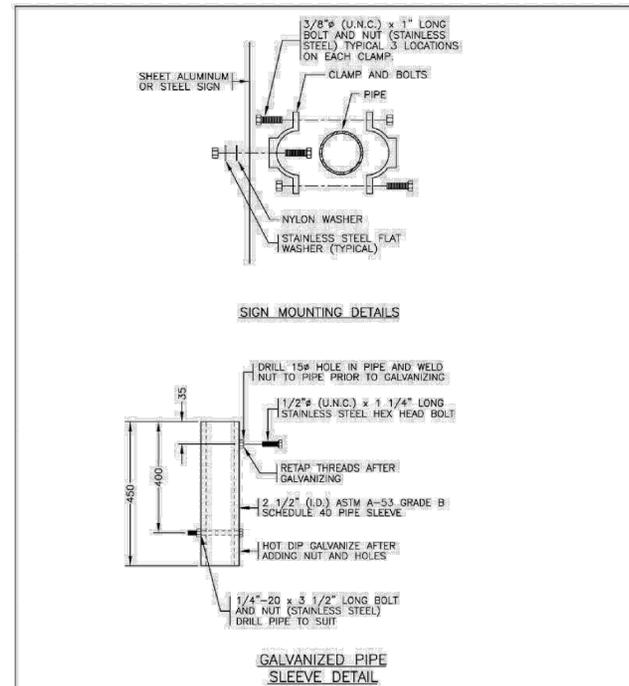
No.	Revision	Date	Approved	SPECIFICATION DRAWING No.
G	TITLE UPDATED	APR 20		
F	GENERAL REVISIONS	APR 17		
E	REVISED NOTE	JUN 08		
D	GENERAL REVISIONS	APR 05		
C	NOTE IN BOX ADDED	NOV 98		
B	DRAWING NUMBER CHANGED	AUG 95		

ROUND CONCRETE BASES FOR ROUND STEEL SIGN POSTS (PRECAST OR CAST IN PLACE)

30/09/93 E.L. (Signature on File) Chief Highway Engineer SP635-1.1.36

BC MoTI SS 2020 635 (54 of 277)
Vol. 2 Page 67 of 452

SECTION 635 ELECTRICAL AND SIGNING



- NOTES**
- SEE STANDARD SPECIFICATIONS & SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
 - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

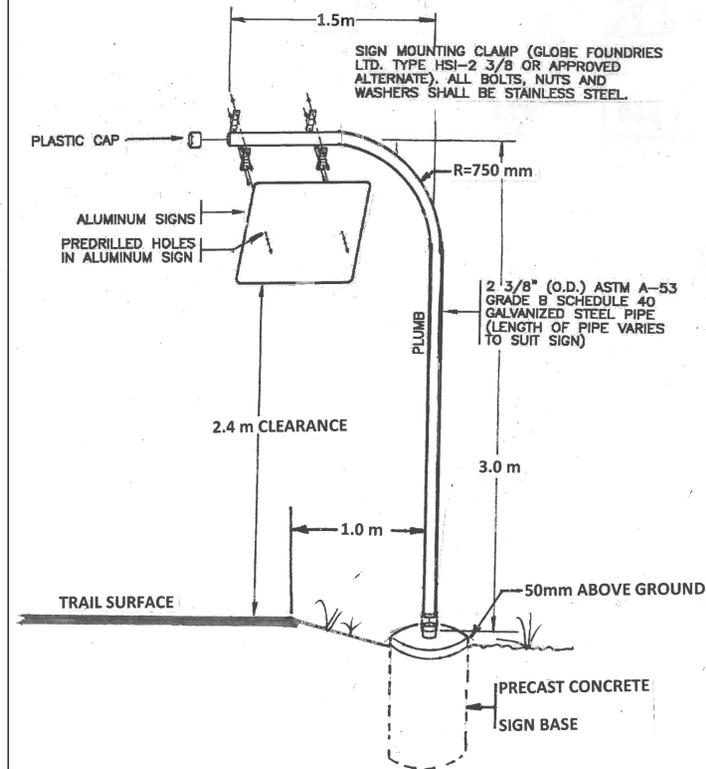


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No.	Revision	Date	Approved	SPECIFICATION DRAWING No.
F				
E				
D				
C				
B	GENERAL REVISIONS	APR 20	18/11/94 E.L. (Signature on File) Chief Highway Engineer	SP635-3.8.2
A	GENERAL REVISIONS	APR 17		

ROUND STEEL SIGN POST INSTALLATION DETAILS

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0	ISSUED FOR TENDER	21/02/18

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

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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 KWATKOWSKI

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
SIGN POST DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
PCA #1522	SD-03 OF	0



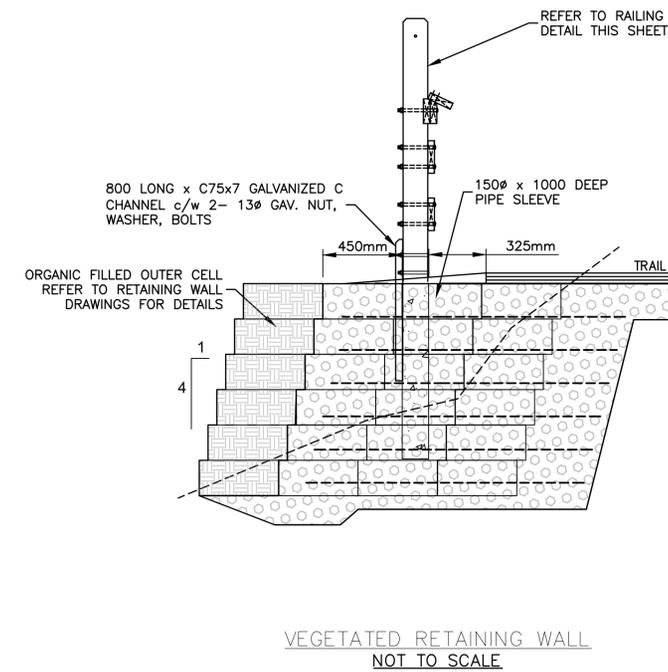
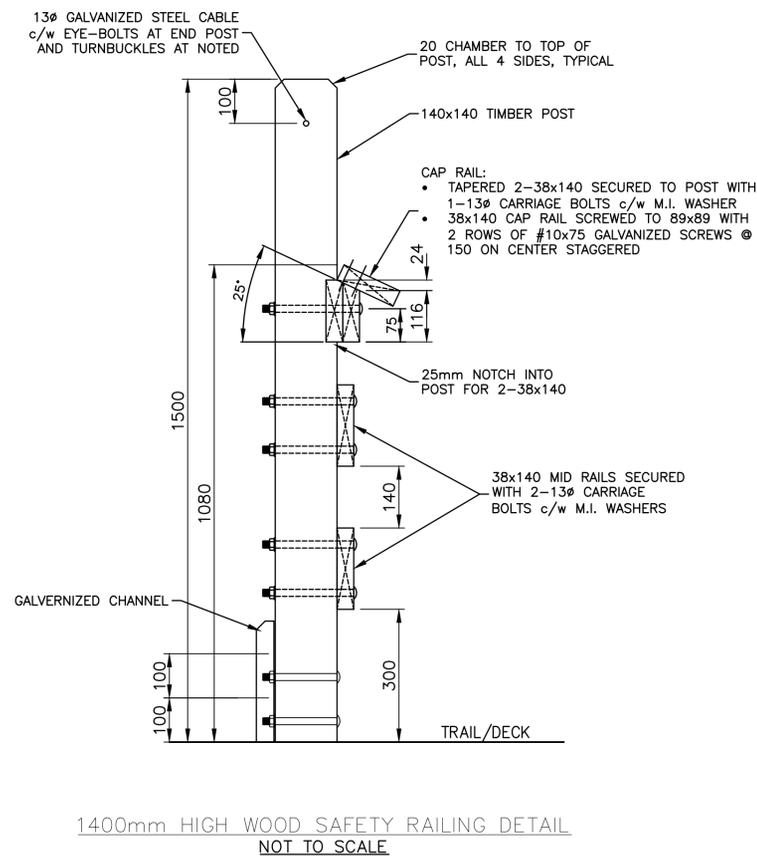
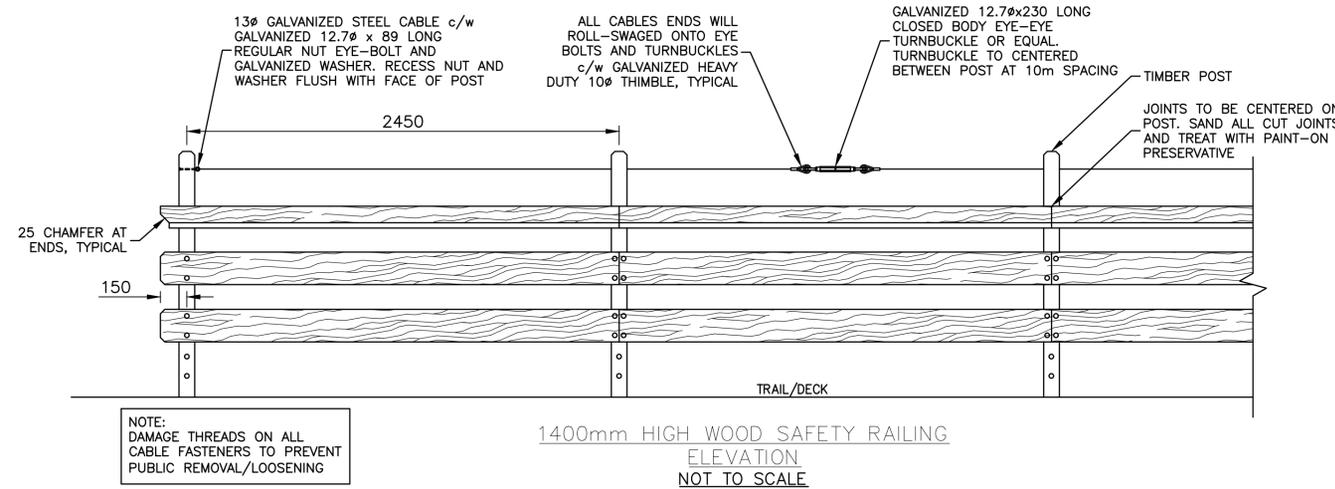
PARSONS

wsp

TIMBER NOTES

- ALL NEW TIMBER TO CONFORM TO CSA-0141-91 "SOFTWOOD LUMBER" TIMBER GRADES AND SPECIES AS FOLLOWS:

MEMBER	(FINISH)	GRADE
CAP/RAILS	(S4S)	GROUP A No. 1, OR BETTER
POST	(ROUGH)	GROUP A No. 1, OR BETTER
- ALL TIMBER CONSTRUCTION, DETAILS AND FASTENINGS SHALL CONFORM FULLY TO CSA 086, CURRENT EDITION.
- PRE-DRILL ALL BOLT AND LAG SCREW SHANK HOLES (BUT NOT LEAD HOLES). BOLT HOLES SHOULD BE FULL LENGTH AND SIZE FOR MACHINE BOLTS.
- POSTS FOR 900 HIGH LOG RAIL TO BE TREATED WITH PRESERVATIVE IN ACCORDANCE WITH SPECIFICATIONS.



- NOTE:
1. TOP CABLE NOT REQUIRED AT SECTION OF RAILING INSTALLED AT VIEWPOINT.

Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/02/18

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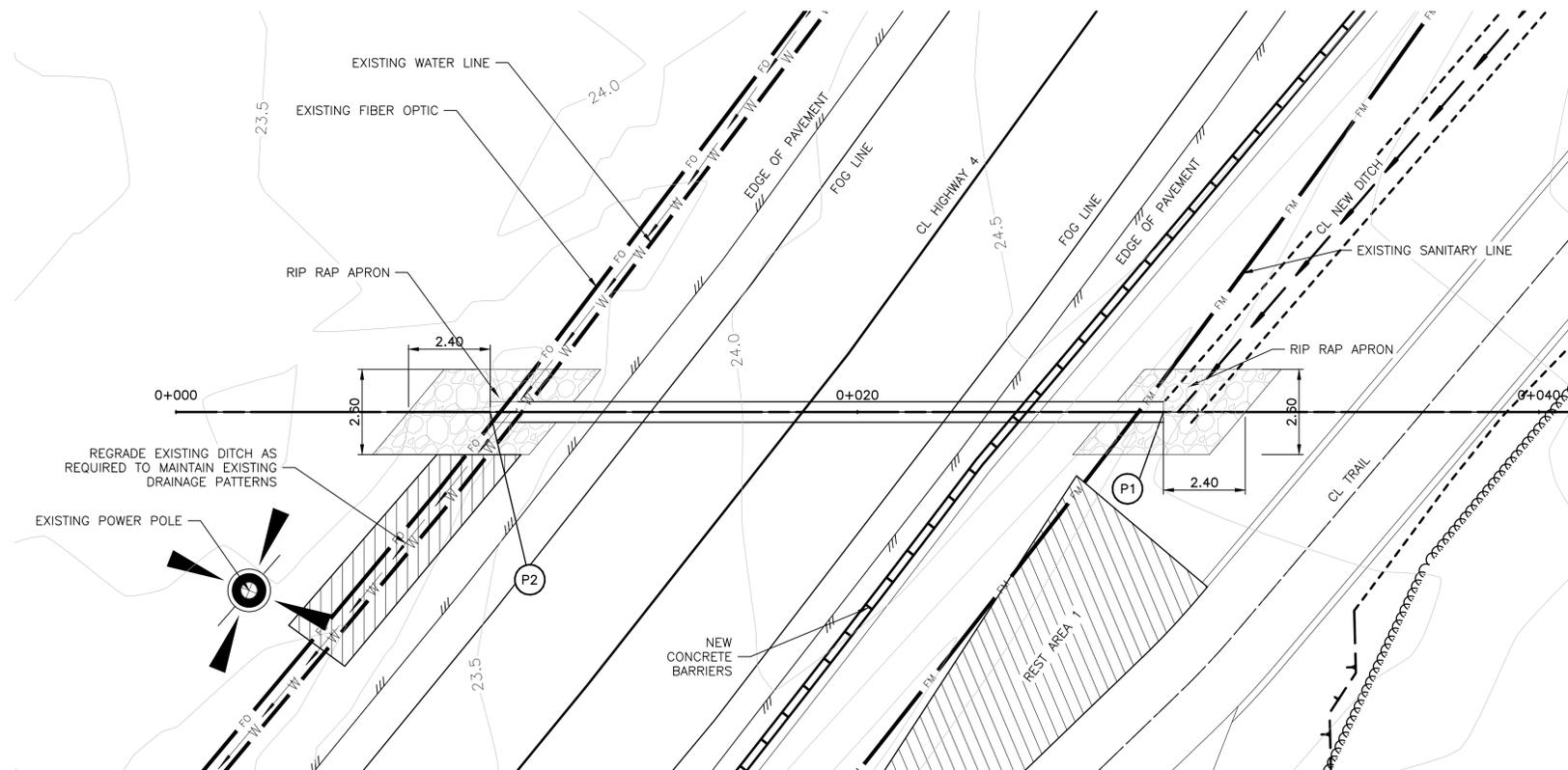
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PCA Project Manager/Technical Authority
Administrateur de Projets APC
JACKIE HICKS

Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
SAFETY RAILING DETAILS

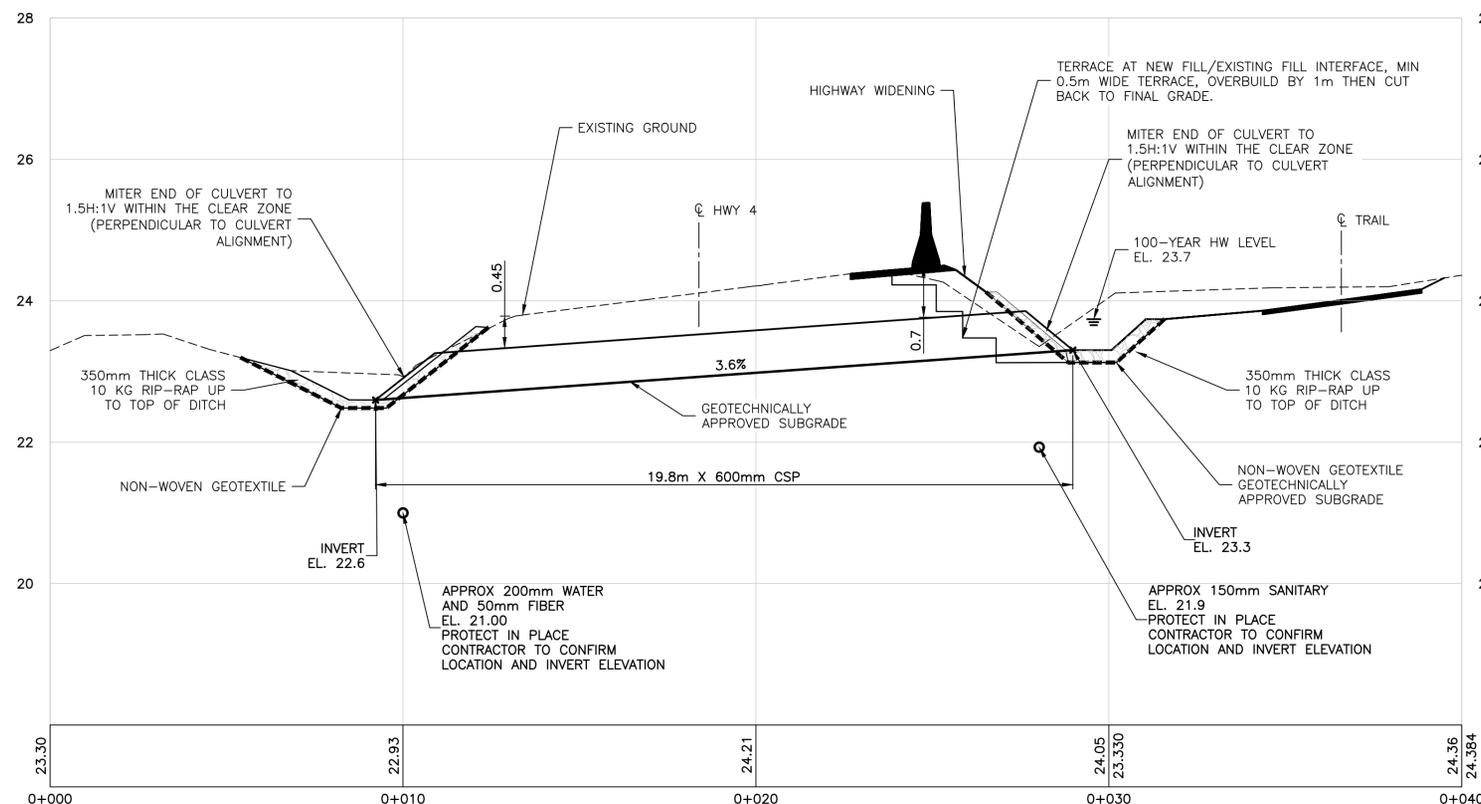
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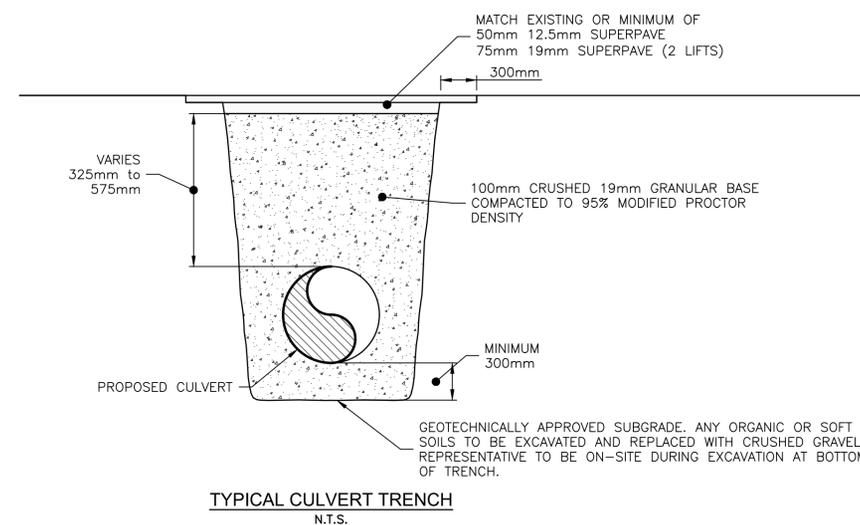


HIGHWAY CULVERT - PLAN
1:100

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



HIGHWAY CULVERT - PROFILE
1:100H & 1:50V



Revision/	Description/Description	Date/Date
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Parks Canada Agency	L'Agence Parcs Canada
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Consultant Signature Only
Designed by/Concept par
NAVRATNA SHARMA / ANDREW KWIATKOWSKI
Drawn by/Dessiné par
MICHAEL GIANG
PCA Project Manager/Technical Authority
Administrateur de Projets APC
JACKIE HICKS

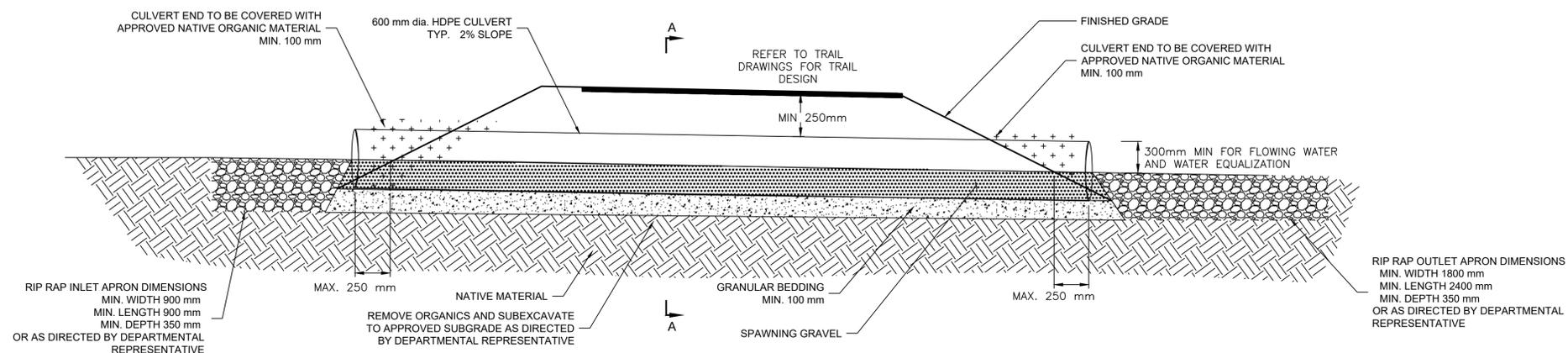
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WAYII AREA TRAIL DESIGN
HIGHWAY CULVERT PLAN PROFILE (CULVERT 4)

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
PCA #1522	D-01 OF	0

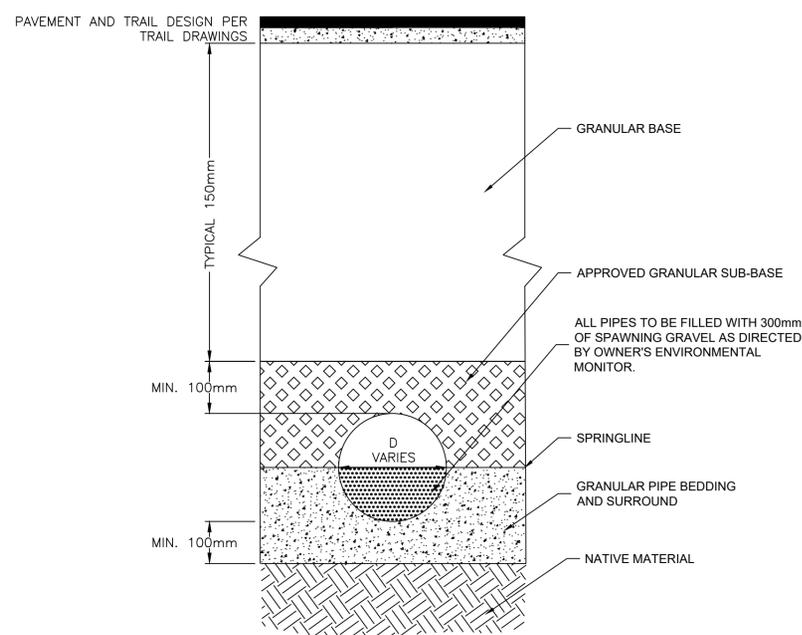


NOTES:

1. END OF CULVERT TO BE MAXIMUM 0.25 m FROM TOE OF SLOPE. LENGTH OF CULVERT MAY VARY ACCORDINGLY.
2. REMOVE ORGANICS UNDER PROPOSED CULVERT ALIGNMENT AND SUBEXCAVATE TO APPROVED SUBGRADE AS DIRECTED BY GEOTECHNICAL ENGINEER TO PLACE GRANULAR BEDDING.
3. MINIMUM 100 mm OF GRANULAR BEDDING TO SUPPORT CULVERT PER TYPICAL TRENCH DETAIL.
4. RIP RAP APRON TO BE CLASS 10 RIP RAP AT MINIMUM 300mm DEEP AT APRON AND AROUND CULVERT. APPROVED FISHERIES GRAVEL TO BE USED IN THE STREAMBED WHERE REQUIRED, AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.
5. COVER PROTRUDING CULVERT END WITH FILL AND VEGETATE AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.
6. FOR EROSION AND SEDIMENT ISSUES, INSTALL EROSION CONTROL BLANKETS WHERE NEEDED AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE AND OWNERS'S ENVIRONMENTAL MONITOR.
7. IN-STREAM WORKS MAY PROCEED ONLY UNDER DFO APPROVAL. PERMIT TO BE SECURED BY THE DEPARTMENTAL REPRESENTATIVE AND OWNER'S ENVIRONMENTAL MONITOR.



TYPICAL CULVERT LAYOUT DETAIL
NTS



SECTION A-A TYPICAL TRENCH DETAIL
NTS

Revision/	Description/Description	Date/Date
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
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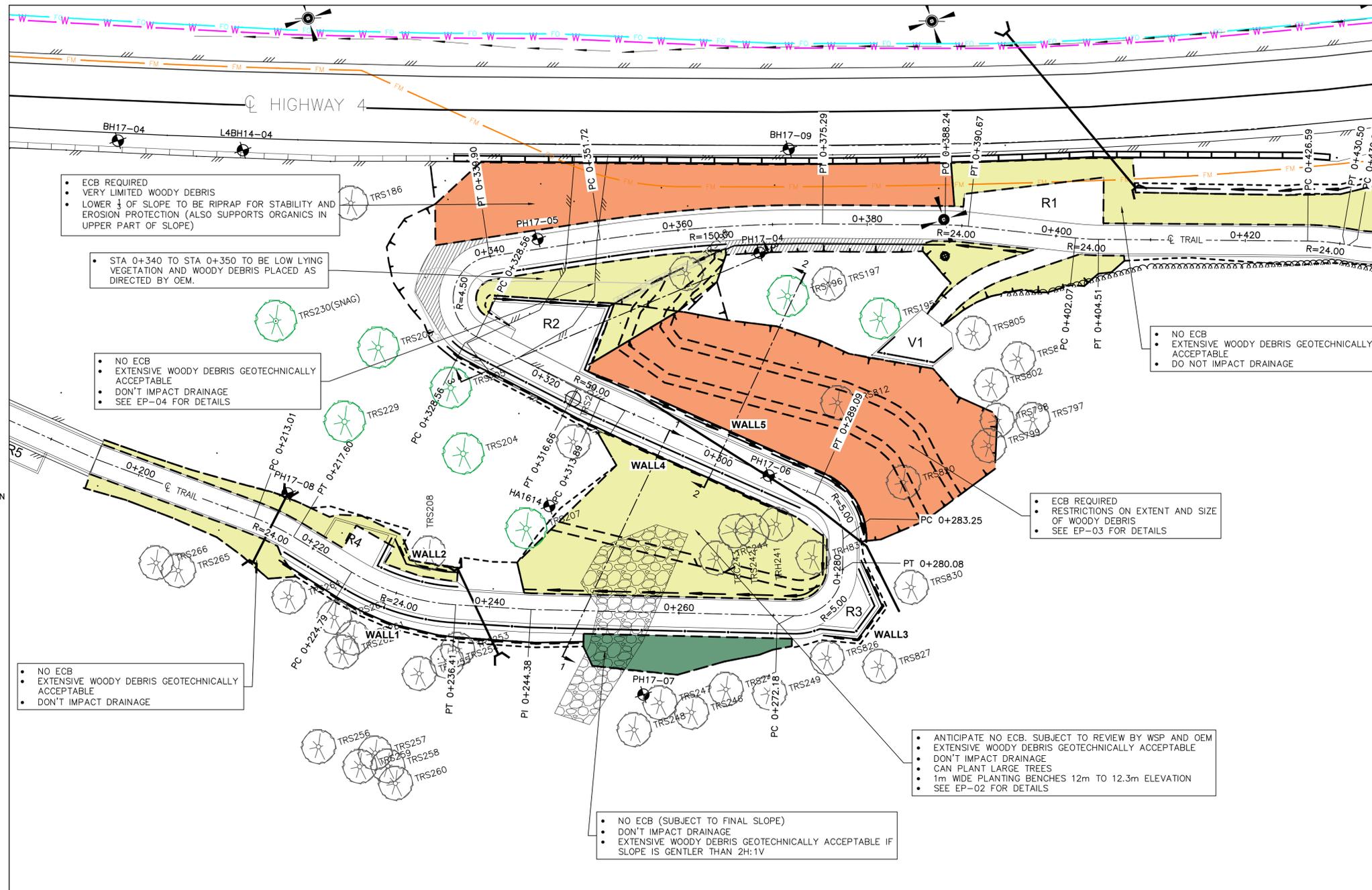
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Drawn by/Dessiné par
MICHAEL GIANG
PCA Project Manager/Technical Authority
Administrateur de Projets APC
JACKIE HICKS

Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
TYPICAL CULVERT DETAIL

Project No./No. du projet PCA #1522	Sheet/Feuille D-02 OF	Revision no./La Révision no. 0
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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 RAILING
 - RETAINING WALL
 - TOE OF FILL
 - CREST OF CUT
 - CENTER OF CREEK/DITCH
 - CLASS 10 RIPRAP
 - EXISTING TREE
 - TREE 1m DIAMETER OR LARGER
 - V1 VIEWING PLATFORM
 - R1 REST AREA
 - CULVERT
 - SANITARY LINE
 - WATER LINE
 - FIBER OPTIC
 - APPROXIMATE BOREHOLE LOCATION



PLAN
1:250

- NOTES:**
1. SURVEY DATA IS BASED UPON THE UTM NAD83 COORDINATE SYSTEM.
 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 15CM 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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Drawn by/Dessiné par
MICHAEL GIANG

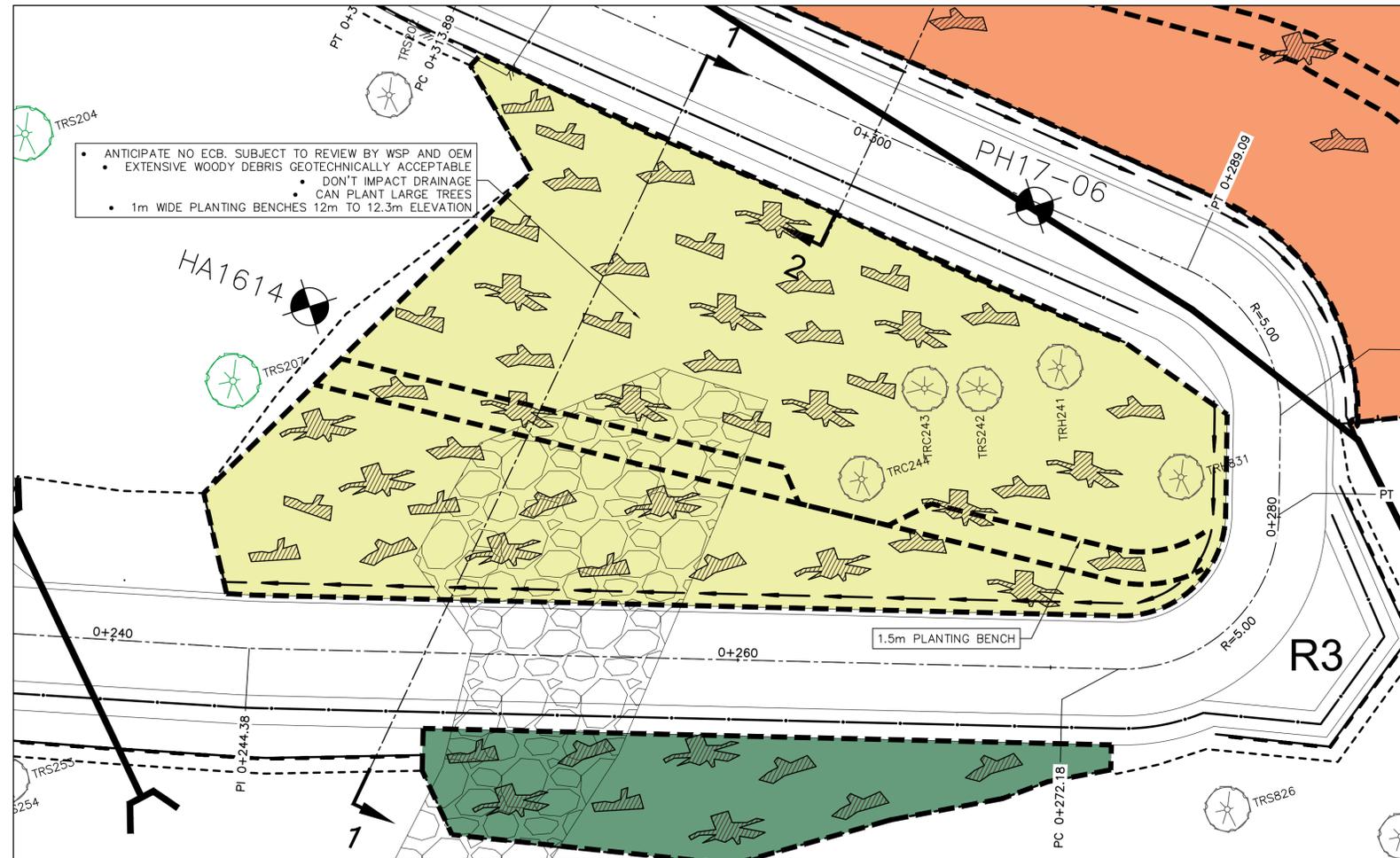
PCA Project Manager/Technical Authority
Administrateur de Projets APC
JACKIE HICKS

Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
ENVIRONMENTAL SURFACE PROTECTION PLAN OVERALL

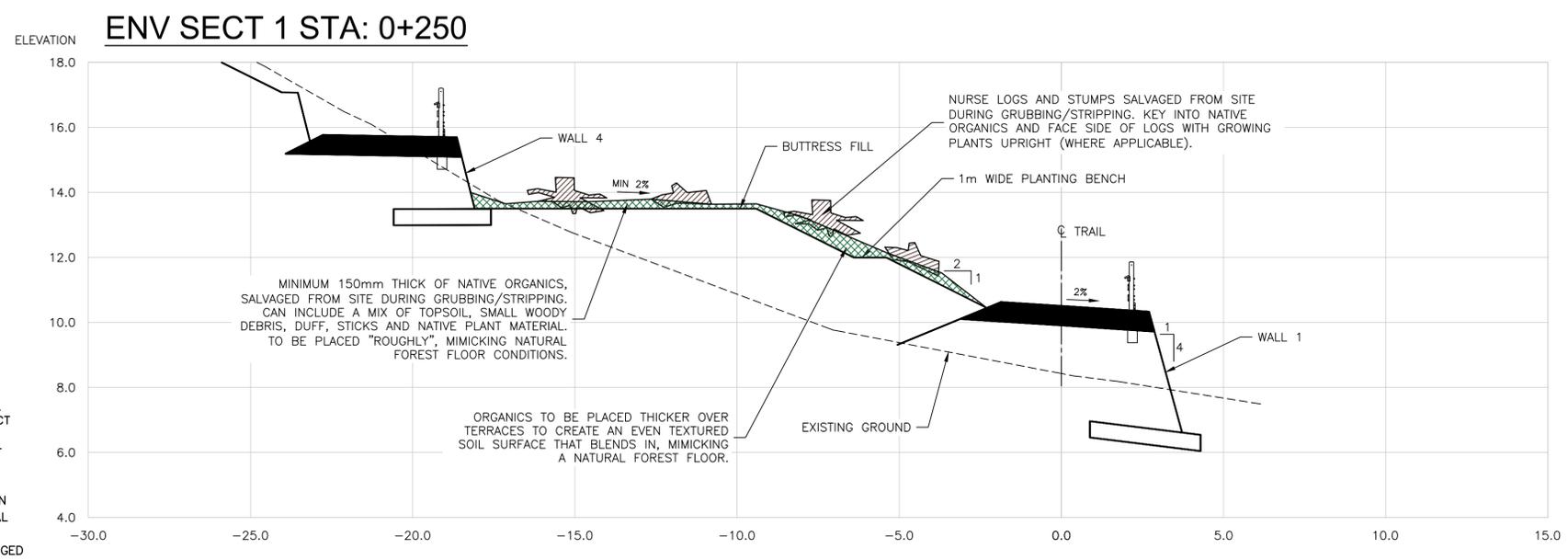
Project No./No. du projet PCA #1522	Sheet/Feuille EN-01 OF	Revision no./La Révision no. 0
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LEGEND	
EXISTING	
	EDGE OF PAVEMENT
	SHOULDER OF HIGHWAY
	CONCRETE ROADSIDE BARRIER
	TOP OF BANK
	CENTER OF CREEK/DITCH
	UTILITY POLE
PROPOSED	
	EDGE OF TRAIL
	CONCRETE ROADSIDE BARRIER
	SAFETY RAILING
	RETAINING WALL
	TOE OF FILL
	CREST OF CUT
	CENTER OF CREEK/DITCH
	CLASS 10 RIPRAP
	EXISTING TREE
	TREE 1m DIAMETER OR LARGER
	V1 VIEWING PLATFORM
	R1 REST AREA
	CULVERT
	SANITARY LINE
	WATER LINE
	FIBER OPTIC
	APPROXIMATE BOREHOLE LOCATION



BUTRESS PLAN
1:100



BUTRESS SECTION
1:100

- NOTES:**
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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

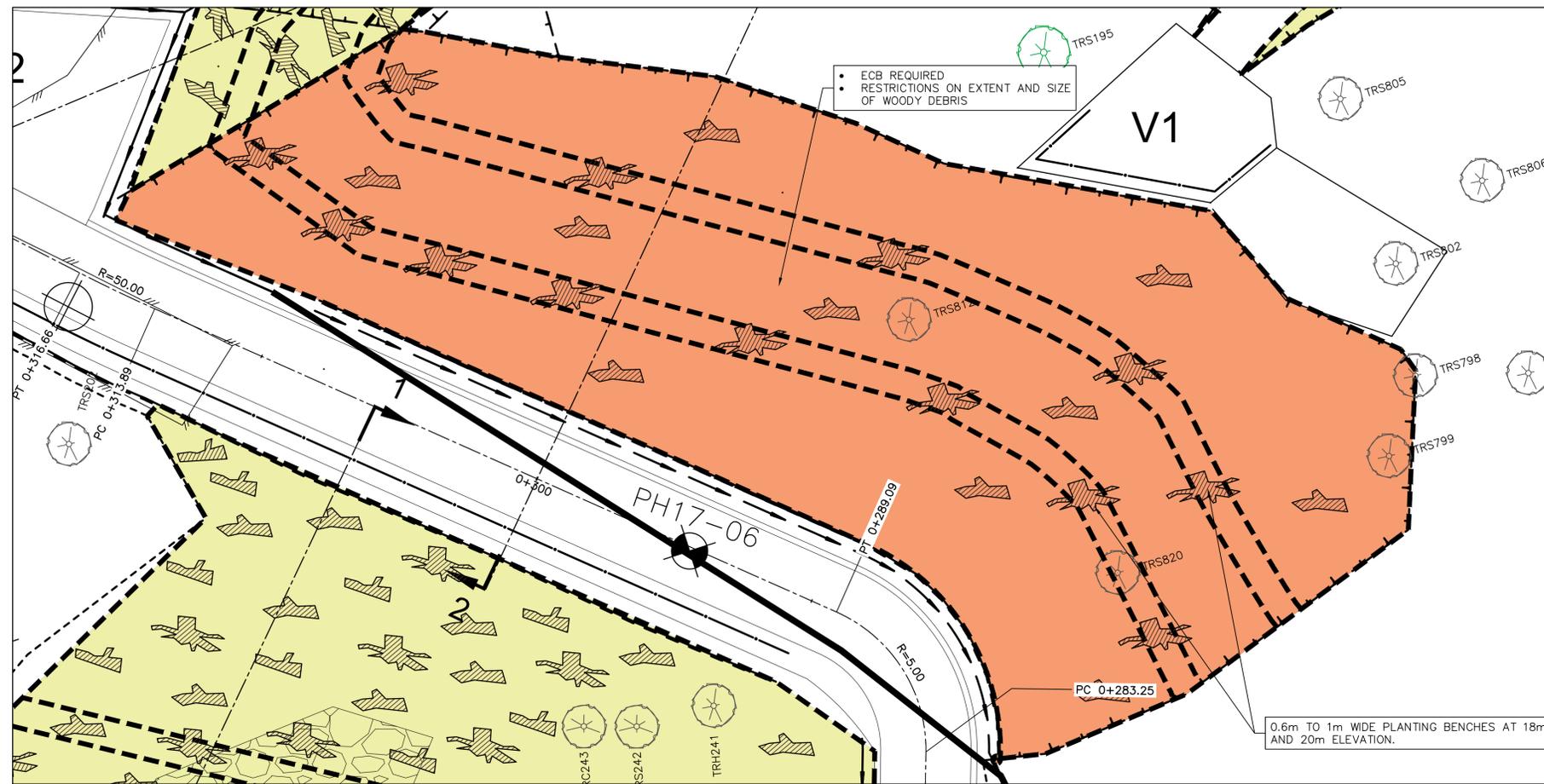
PCA Project Manager/Technical Authority
Administrateur de Projets APC
JACKIE HICKS

Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
ENVIRONMENTAL SURFACE PROTECTION PLAN
BUTRESS DETAILS

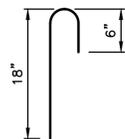
Project No./No. du projet PCA #1522	Sheet/Feuille EN-02 OF	Revision no./La Révision no. 0
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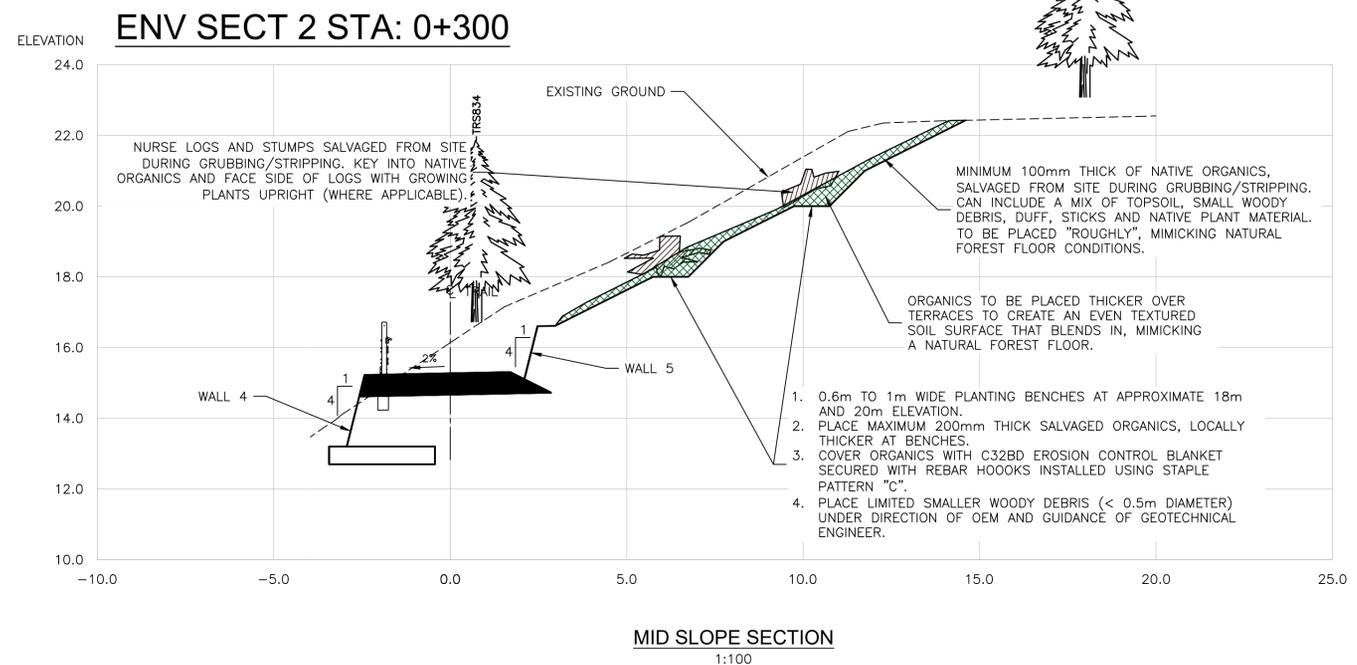
- LEGEND**
- EXISTING**
- EDGE OF PAVEMENT
 - - - SHOULDER OF HIGHWAY
 - CONCRETE ROADSIDE BARRIER
 - TOP OF BANK
 - CENTER OF CREEK/DITCH
 - UTILITY POLE
- PROPOSED**
- EDGE OF TRAIL
 - CONCRETE ROADSIDE BARRIER
 - SAFETY RAILING
 - RETAINING WALL
 - - - TOE OF FILL
 - - - CREST OF CUT
 - CENTER OF CREEK/DITCH
 - CLASS 10 RIPRAP
 - EXISTING TREE
 - TREE 1m DIAMETER OR LARGER
 - V1 VIEWING PLATFORM
 - R1 REST AREA
 - CULVERT
 - SANITARY LINE
 - WATER LINE
 - FIBER OPTIC
 - APPROXIMATE BOREHOLE LOCATION



MID SLOPE PLAN
1:100



REBAR HOOKED PINS
"U" HOOK 10" W/2-1/2" BEND
NTS



MID SLOPE SECTION
1:100

- NOTES:**
1. SURVEY DATA IS BASED UPON THE UTM NAD83 COORDINATE SYSTEM.
 2. THE CONTRACTOR SHALL ADHERE TO ALL ENVIRONMENTAL AND ARCHAEOLOGICAL REGULATIONS AS SPECIFIED IN THE CONTRACT.
 3. CONTRACTOR MUST EMPLOY METHODS THAT PROTECT MATURE TREES (>500mm) IN THE WORK AREA TO AVOID ADDITIONAL REMOVALS, OR DAMAGE TO LIMBS AND ROOT SYSTEMS.
 4. 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.
 5. ALL EXPOSED CUT AND FILL SLOPES TO BE COVERED IN MIN 15CM 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.
 6. POSTED HIGHWAY SPEED 80 km/hr.
 7. 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.

0	ISSUED FOR TENDER	21/02/18
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Revision/Revision	Description/Description	Date/Date
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Parks Canada Agency	L'Agence Parcs Canada
Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet
TOFINO
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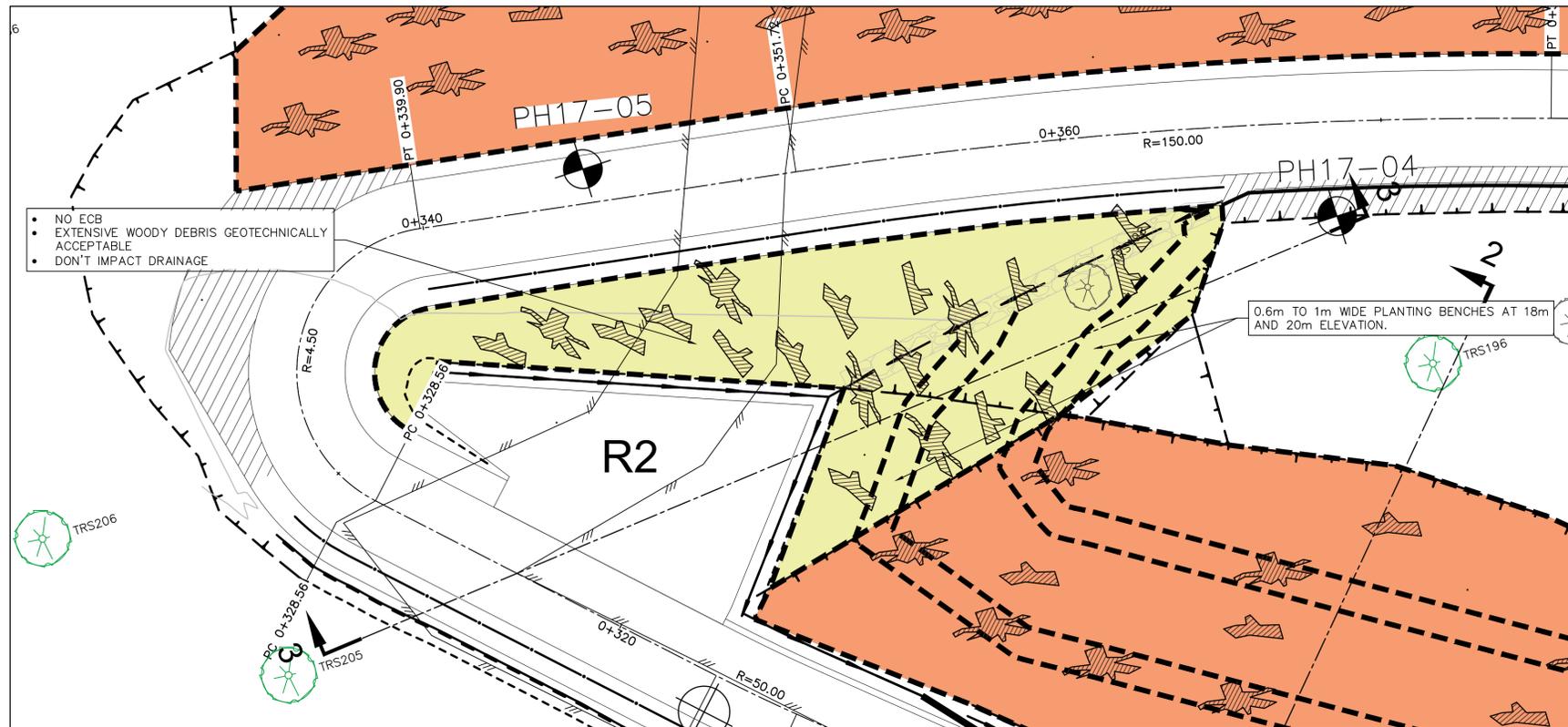
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MID SLOPE DETAILS

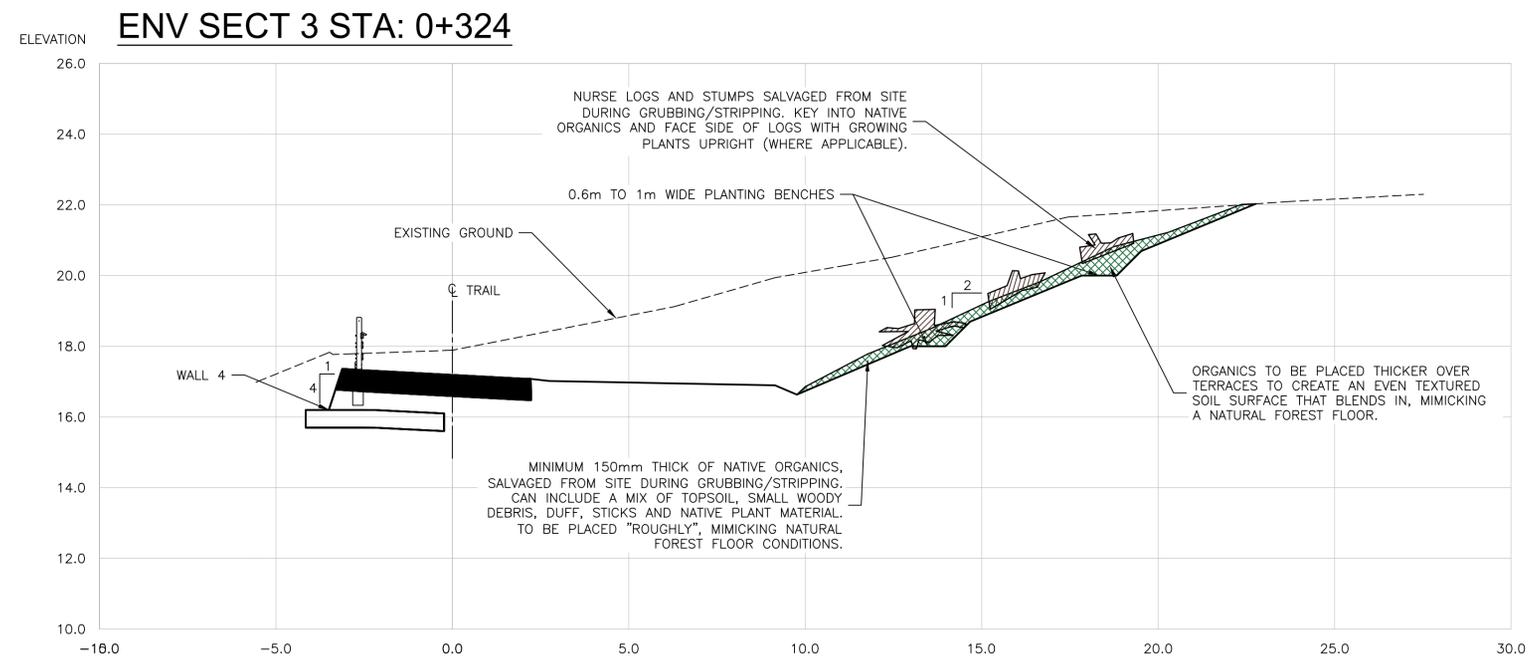
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- LEGEND**
- EXISTING**
- EDGE OF PAVEMENT
 - - - SHOULDER OF HIGHWAY
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 - TOP OF BANK
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 - R1 REST AREA
 - CULVERT
 - SANITARY LINE
 - WATER LINE
 - FIBER OPTIC
 - APPROXIMATE BOREHOLE LOCATION



REST AREA 2 PLAN
1:100



REST AREA 2 SECTION
1:100

- NOTES:**
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 2. THE CONTRACTOR SHALL ADHERE TO ALL ENVIRONMENTAL AND ARCHAEOLOGICAL REGULATIONS AS SPECIFIED IN THE CONTRACT.
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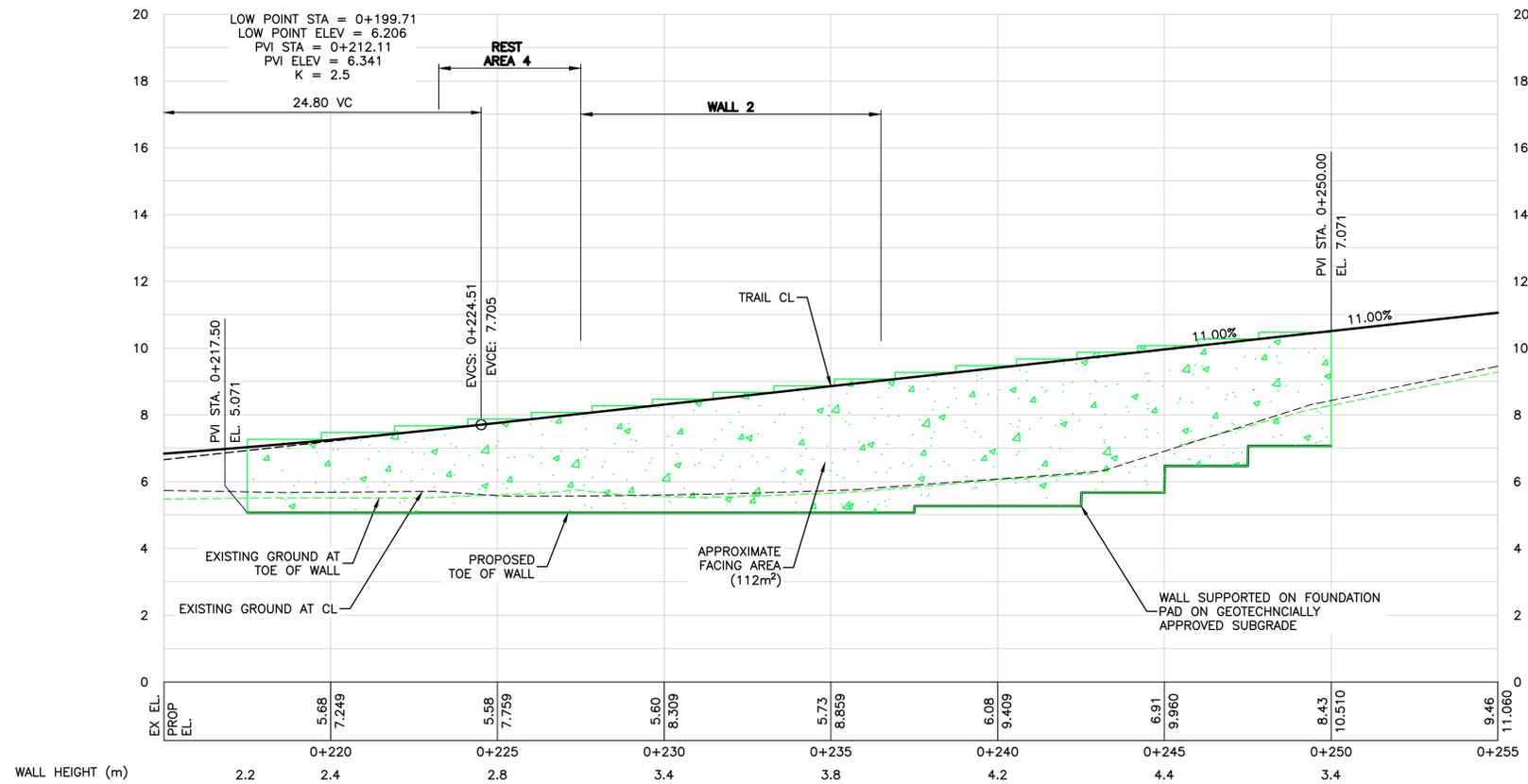
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ENVIRONMENTAL SURFACE PROTECTION PLAN
REST AREA 2 DETAILS

Project No./No. du projet PCA #1522	Sheet/Feuille EN-04 OF	Revision no./La Révision no. 0
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PARSONS



WALL 1 PROFILE
1:100 HOR - 1:100 VER

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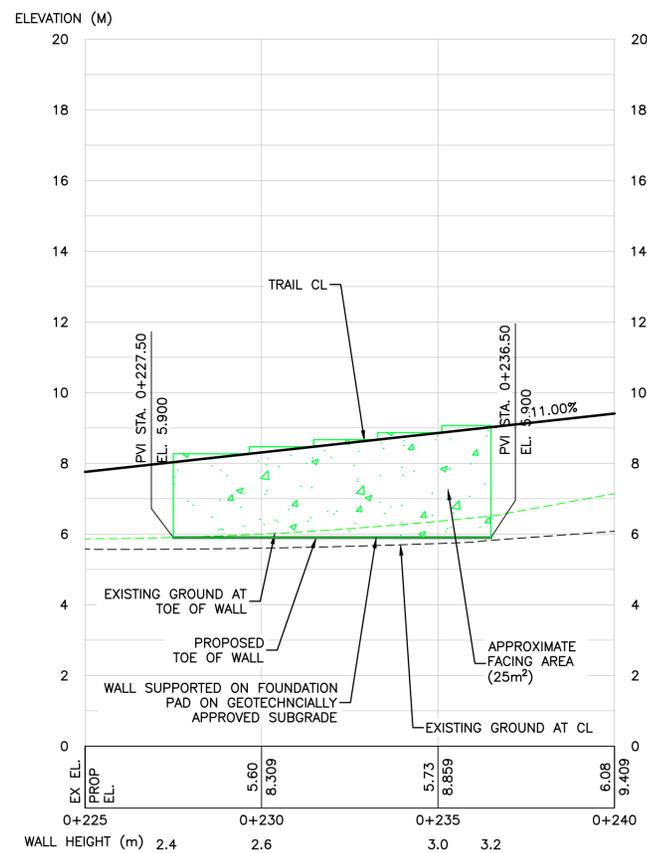
PCA Project Manager/Technical Authority
Administrateur de Projets APC
JACKIE HICKS

Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
WALL 1 PROFILE

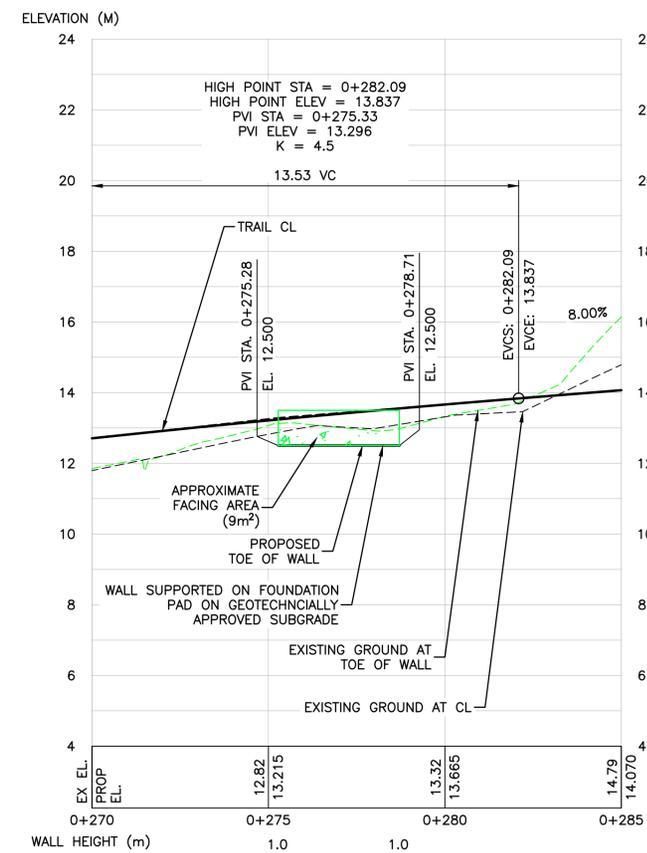
Project No./No. du projet PCA #1522	Sheet/Feuille W-01 OF	Revision no./La Révision no. 0
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PARSONS



WALL 2 PROFILE
1:100 HOR - 1:100 VER



WALL 3 PROFILE
1:100 HOR - 1:100 VER

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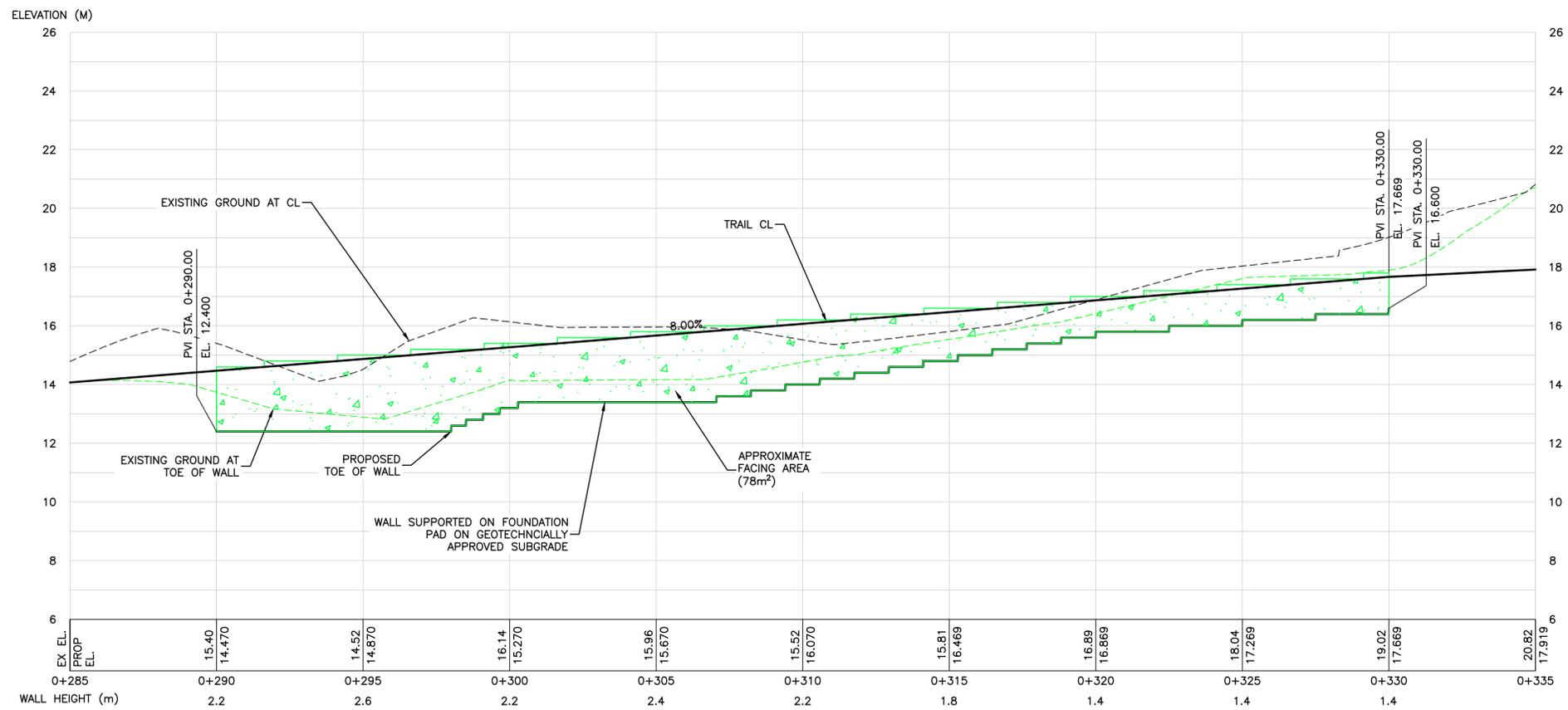
Consultant Signature Only
Designed by/Concept par
DARRYL FUREY / ANDREW KWIATKOWSKI
Drawn by/Dessiné par
MICHAEL GIANG
PCA Project Manager/Technical Authority
Administrateur de Projets APC
JACKIE HICKS

Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
WALL 2 AND WALL 3 PROFILE

Project No./No. du projet PCA #1522	Sheet/Feuille W-02 OF	Revision no./La Révision no. 0
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PARSONS



WALL 4 PROFILE
1:100 HOR — 1:100 VER

Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/02/18

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	Parks Canada Agency	L'Agence Parcs Canada
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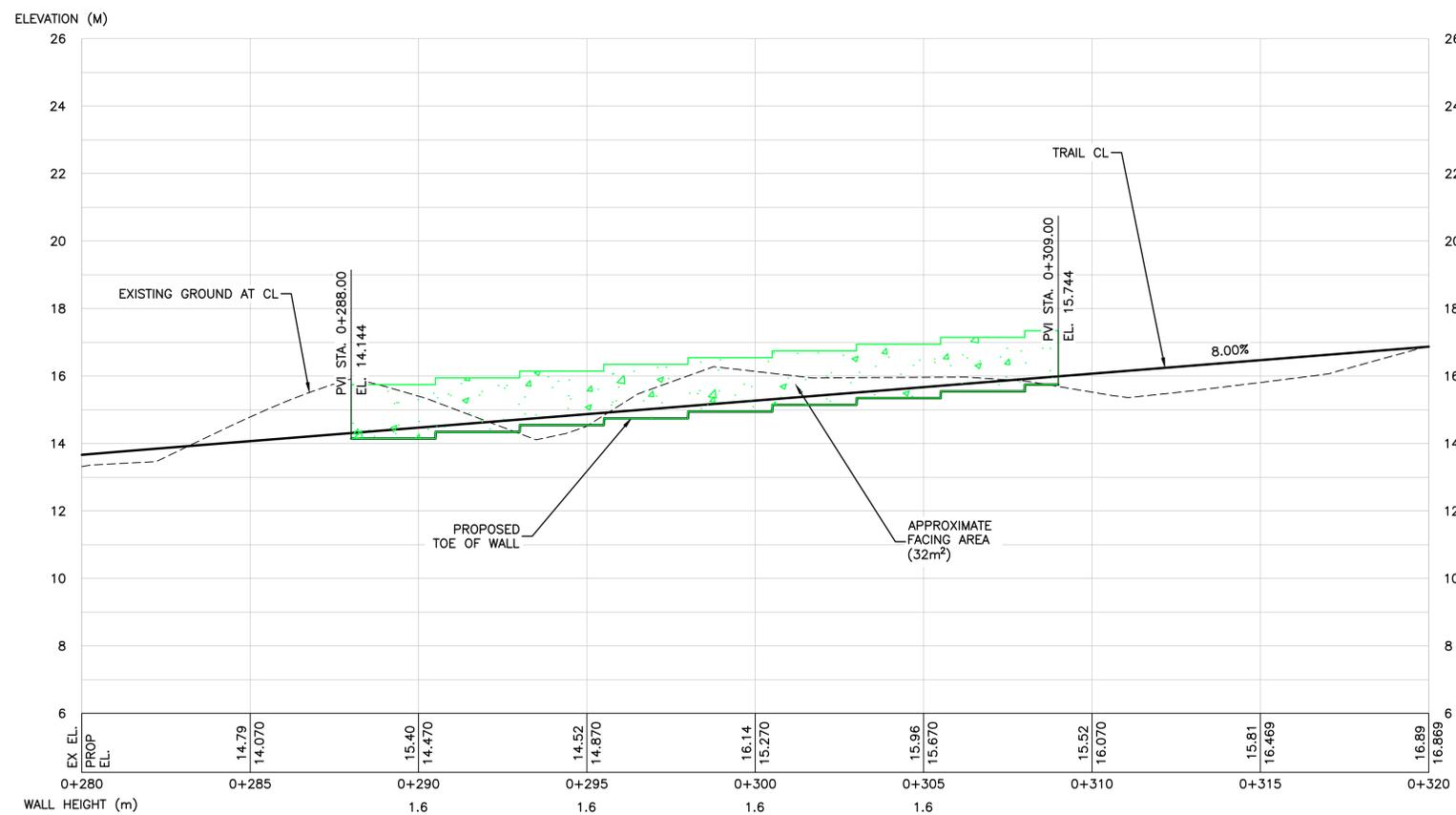
PCA Project Manager/Technical Authority
Administrateur de Projets APC
JACKIE HICKS

Drawing title/Titre du dessin
WAYII AREA TRAIL DESIGN
WALL 4 PROFILE

Project No./No. du projet PCA #1522	Sheet/Feuille W-03 OF	Revision no./La Révision no. 0
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PARSONS



WALL 5 PROFILE
1:100 HOR - 1:100 VER

Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/02/18

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

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 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
WALL 5 PROFILE

Project No./No. du projet PCA #1522	Sheet/Feuille W-04 OF	Revision no./La Révision no. 0
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FOUNDATION PAD

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 GEOTECHNICALY 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.
6. PLACE BI-AXIAL GEOGRID, TE BX30PP (OR APPROVED EQUIVALENT), AT MID-DEPTH OF FOUNDATION PAD. JOINTS BETWEEN GEOGRID PANELS TO BE OFFSET FROM UNDERLYING COMPOSITE GEOGRID.
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

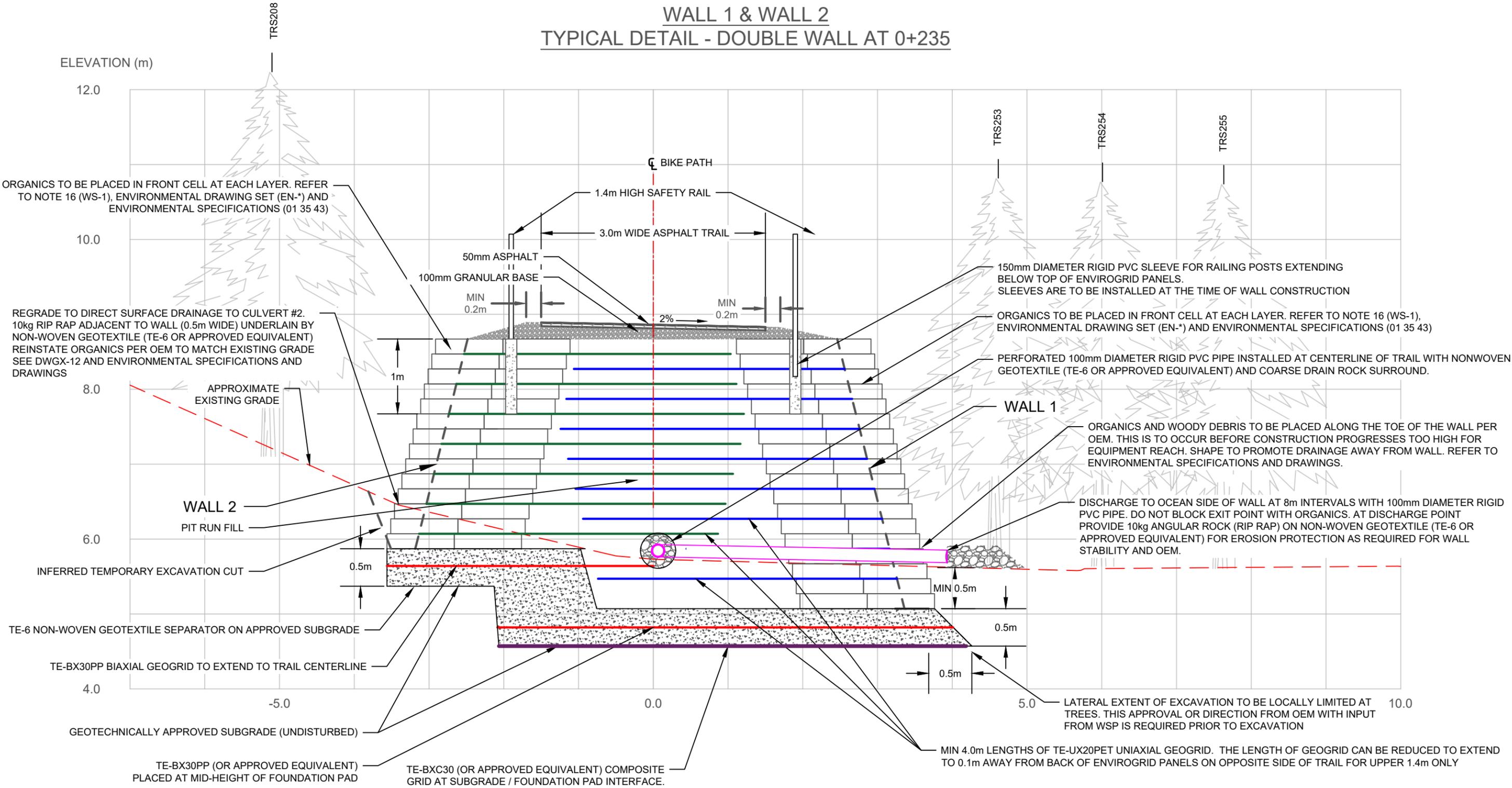
1. THE MECHANICALLY STABILIZED EARTH (MSE) WALL SYSTEM IS TO BE ENVIROGRID EGA40
 - a. CELL APERTURE: 508 mm X 475 mm
 - b. CELL PANELS: 200 mm HIGH x 2.56 m LONG x 0.95 m WIDTH (I.E. EMBEDMENT INTO WALL)
 - c. ENVIROGRID CELLS TO SUPPLIED BY PARKS
2. UNIAXIAL GEOGRID IS TO CONSIST OF TITAN ENVIRONMENTAL TE-UX20 PET GEOGRID (SUPPLIED BY PARKS).
 - a. ULTIMATE TENSILE STRENGTH (Tult): 50 kN/m LTDS = 24 kN/m (PER MANUFACTURER)
 - b. R_{Fcr} = 1.46
 - c. R_{Fd} = 1.1
 - d. R_{Fid} = 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:	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	
			CLIENT:	PARKS CANADA	DESIGN BY:	DF		
			TITLE:	CONSTRUCTION NOTES - RETAINING WALL	DRAWN BY:	BPK		
					CHECKED BY:	DF		
0	ISSUED FOR TENDER	02/17/21			SCALE:	AS SHOWN		
REV. :	DESCRIPTION:	DATE :	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-1

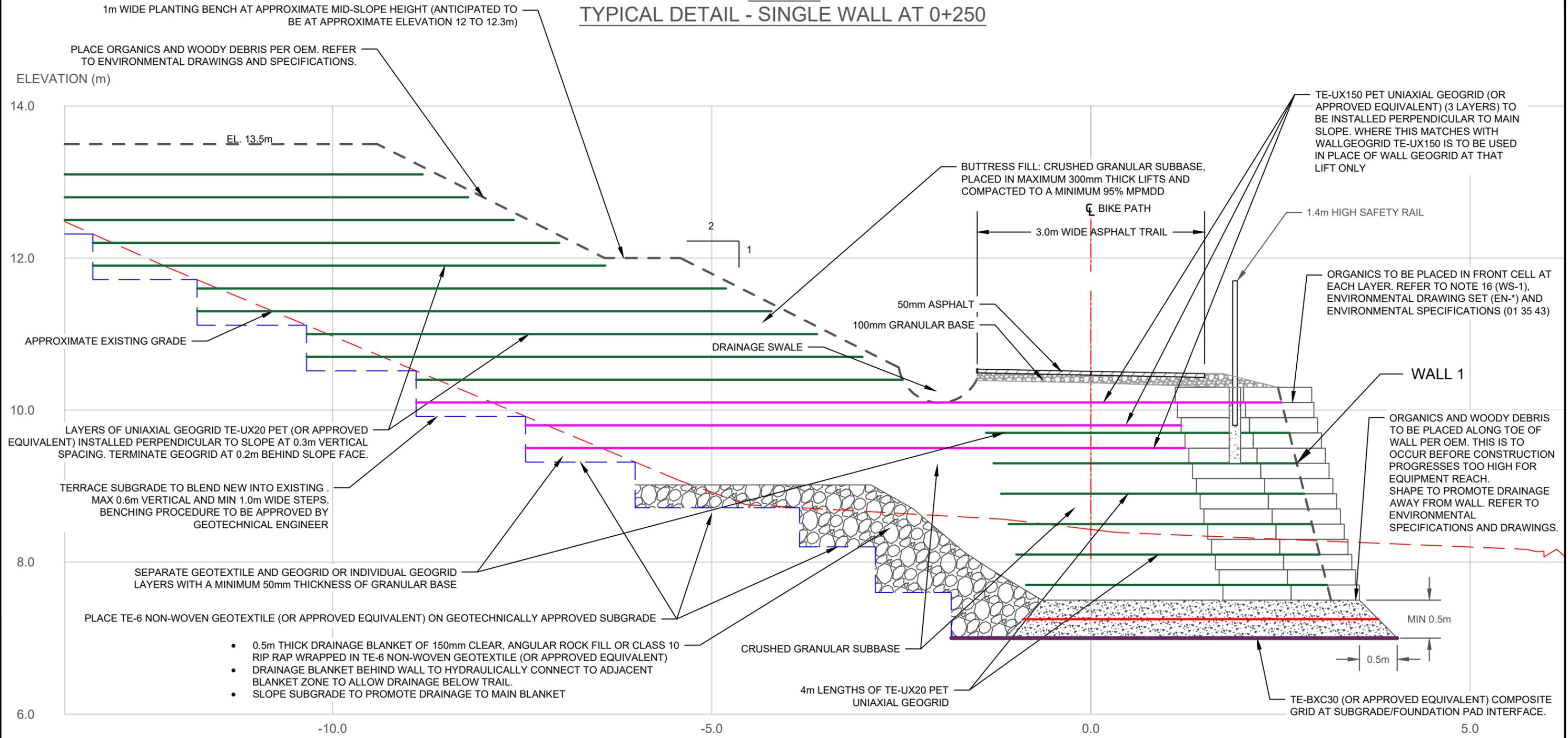
WALL 1 & WALL 2 TYPICAL DETAIL - DOUBLE WALL AT 0+235



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
						CLIENT: PARKS CANADA	DESIGN BY: DF	
						TITLE: WALL 1 & 2 DETAIL (STATION 0+235)	DRAWN BY: BPK	
						CHECKED BY: DF	SCALE: AS SHOWN	
0	ISSUED FOR TENDER	02/17/21				PROJECT No.: 191-08875-02	FIGURE NO.: WD-2	
REV. :	DESCRIPTION:	DATE :	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.					

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		
				CLIENT:	PARKS CANADA		
				TITLE:	WALL 1 DETAIL AND BUTTRESS DETAIL (STATION 0+250)		
0	ISSUED FOR TENDER	02/17/21		DATE:	FEB 2021		
				DESIGN BY:	DF		
				DRAWN BY:	BPK		
				CHECKED BY:	DF		
				SCALE:	AS SHOWN		
				PROJECT No.:	191-08875-02		
REV.:	DESCRIPTION:	DATE:					FIGURE NO.:
		(M/D/YR)					WD-3



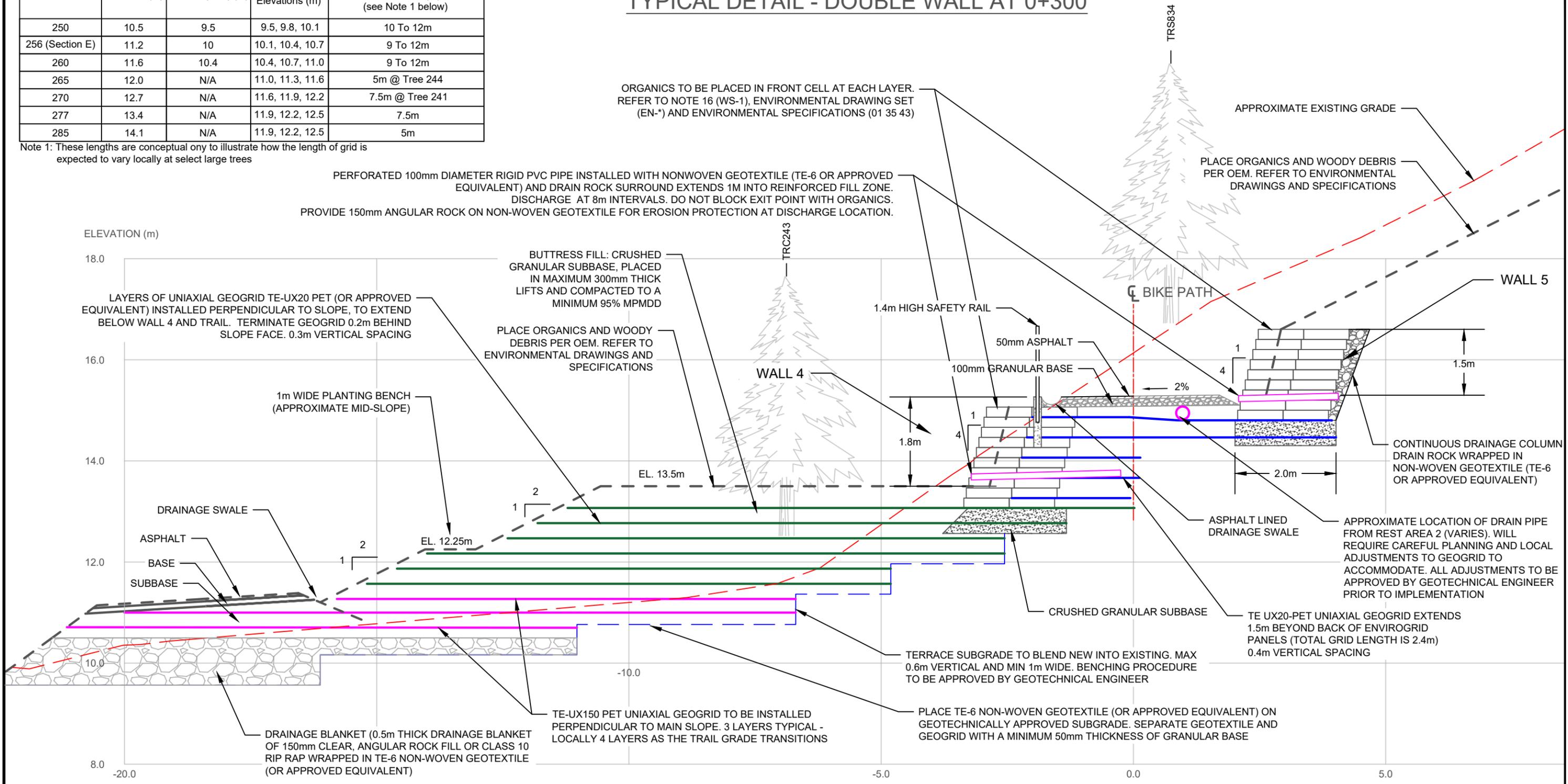
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Table - 1: Summary of Elevations of Stronger Uniaxial Geogrid Within Buttress

Station	Approx. Trail Elevation (m)	Top of Drainage Blanket (Max) (m)	Stronger Uniaxial Geogrid Elevations (m)	Approx. Distance Grid Extends into Slope Relative to Lower Trail Center Line (m) (see Note 1 below)
250	10.5	9.5	9.5, 9.8, 10.1	10 To 12m
256 (Section E)	11.2	10	10.1, 10.4, 10.7	9 To 12m
260	11.6	10.4	10.4, 10.7, 11.0	9 To 12m
265	12.0	N/A	11.0, 11.3, 11.6	5m @ Tree 244
270	12.7	N/A	11.6, 11.9, 12.2	7.5m @ Tree 241
277	13.4	N/A	11.9, 12.2, 12.5	7.5m
285	14.1	N/A	11.9, 12.2, 12.5	5m

Note 1: These lengths are conceptual only to illustrate how the length of grid is expected to vary locally at select large trees

WALL 4 & WALL 5 TYPICAL DETAIL - DOUBLE WALL AT 0+300



LEGEND:

					PROJECT: UPSCHIEK 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
					CLIENT: PARKS CANADA	DESIGN BY: DF	
					TITLE: WALL 4 & 5 AND BUTTRESS DETAIL (STATION 0+300)	DRAWN BY: BPK	
					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.	CHECKED BY: DF	
0	ISSUED FOR TENDER	02/17/21				SCALE: AS SHOWN	PROJECT No.: 191-08875-02
REV.:	DESCRIPTION:	DATE:	(M/D/YR)				FIGURE NO.: WD-4