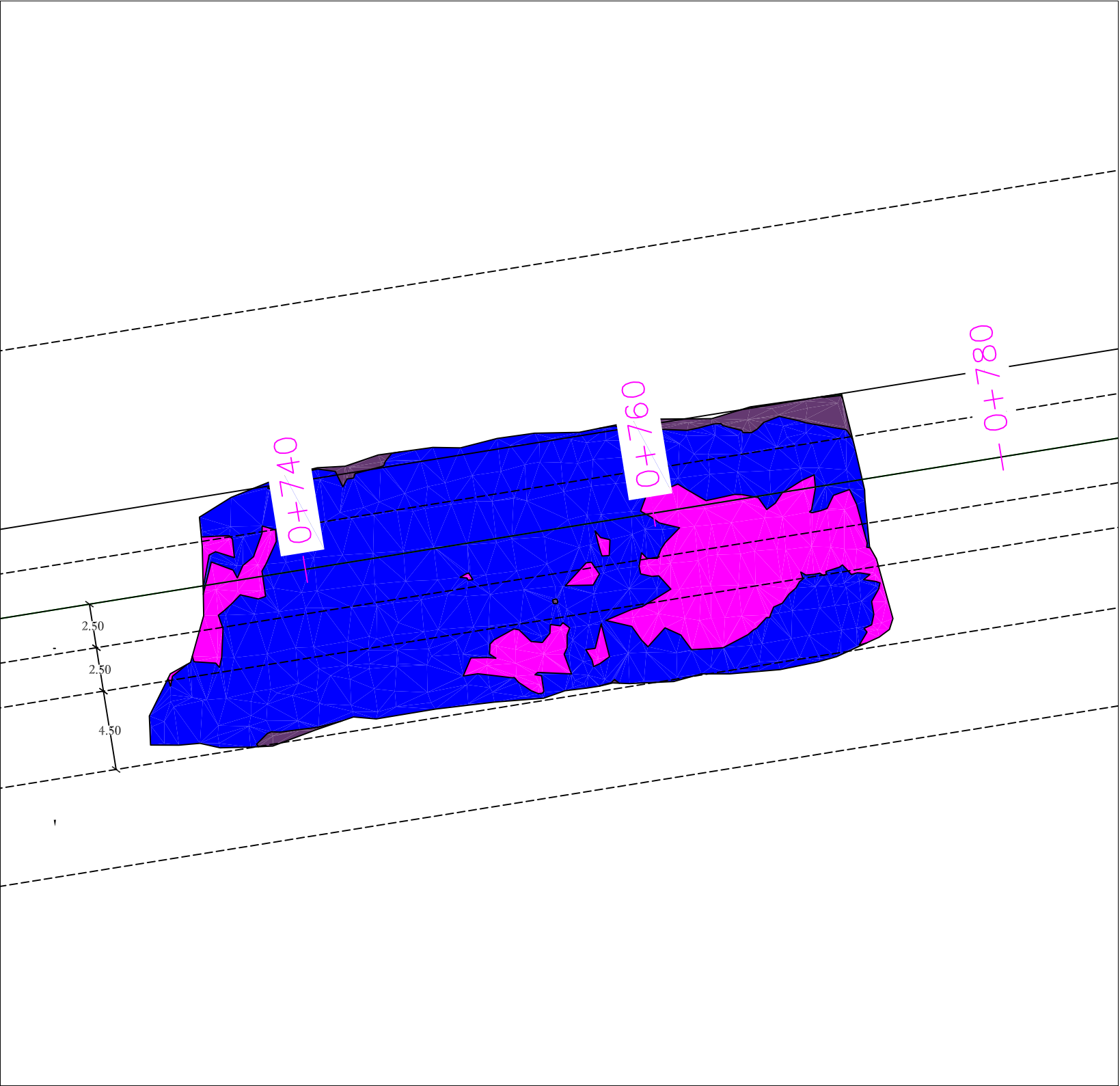


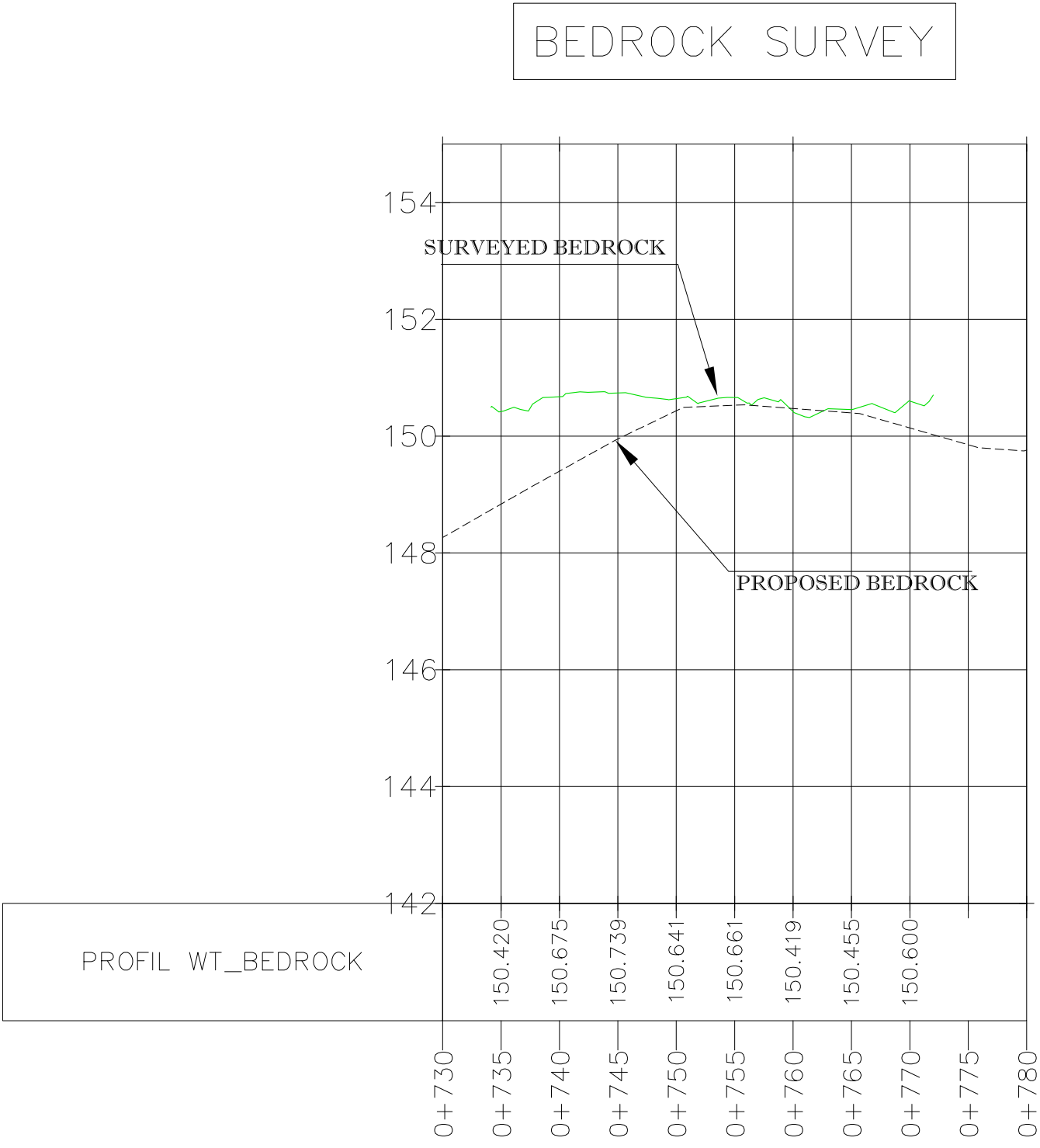
FND-WT-014
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811

Elevations Table				
Number	Minimum Elevation	Maximum Elevation	Area	Color
1	143.00	143.50	0.00	■
2	143.50	144.00	13.07	■
3	144.00	144.50	33.80	■
4	144.50	145.00	32.96	■
5	145.00	145.50	23.02	■
6	145.50	146.00	17.15	■
7	146.00	146.50	32.42	■
8	146.50	147.00	59.31	■
9	147.00	147.50	79.02	■
10	147.50	148.00	111.96	■
11	148.00	148.50	81.81	■
12	148.50	149.00	60.86	■
13	149.00	149.50	64.91	■
14	149.50	150.00	211.36	■
15	150.00	150.50	237.84	■
16	150.50	151.00	525.94	■
17	151.00	151.50	471.13	■
18	151.50	152.00	546.99	■
19	152.00	152.50	231.75	■
20	152.50	153.00	6.75	■



C:\Dropbox\Dropbox (Groupe Silver)_percentage meadowbank\2018\02-E - OFFICIAL DRAWING\11-811 - AMO DIKES\CON-FD (AS BUILT)\CON-FD-039_FA.dwg

FND-WT-014
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811



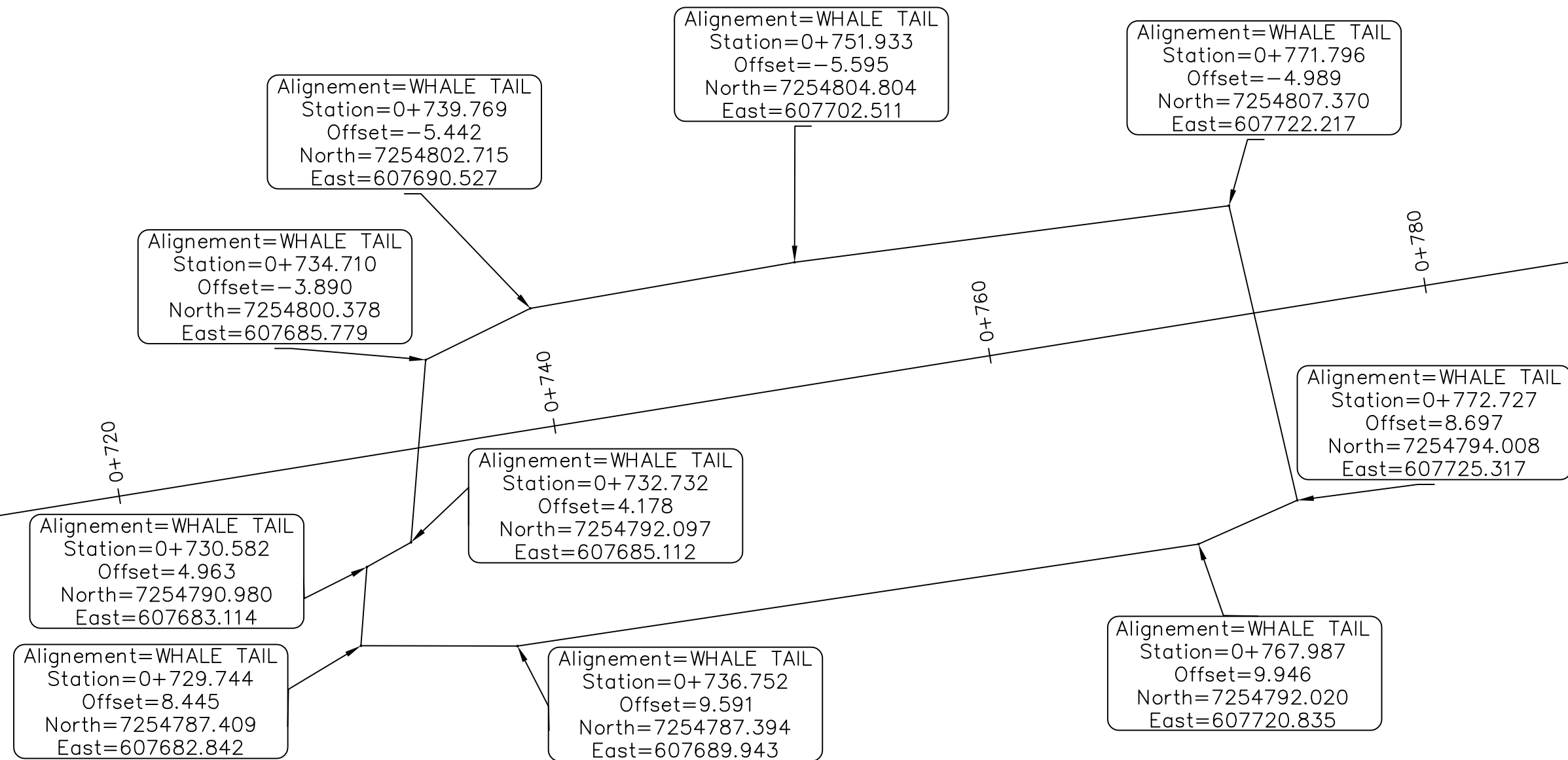
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FND-WT-014

WHALE TAIL DIKE CONSTRUCTION

CONTRACT # 11-811

c:\Dropbox\Dropbox (Groupe Gilbert)\pentage meadowbank\2018\02-E - OFFICIAL DRAWING\11-811 - AMQ DIKES\CON-FD (AS BUILT)\CON-FD-038_FA.dwg



KIVALLIQ CONTRACTORS
GROUP LTD

PREPARED BY : MARC-ANDRÉ BLACKBURN
DATE : 16-08-2018
CON-FD-038-FA

Sketch showing approximate extent of the foundation approved in the east abutment. Points A and B are approximate locations in this picture corresponding to the coordinates given on page 5 of this approval form.

A: Station 0 + 739.769, Offset = -5.442, North = 7254802.715, East = 607690.527

B: Station 0 + 772.727, Offset = 8.697, North = 7254794.008, East = 607725.317



PROJECT : WTO Construction
PROJECT #: 659308
DOCUMENT #: 20180817-05-01
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: Aug. 17, 2018
TIME: 17:50 pm
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☒ Foundation approval (key trench)
- ☐ Fill placement: _____
- ☐ CB cutoff wall approval
- ☐ Other: _____

<u>LOCATION</u>		<u>PREVIOUS APPROVALS</u>	
Station	<u>0+435 to 0+475</u>	Station:	<u>0+415 to 0+435</u>
Inclination:		Details:	
ELEVATION			
: <input checked="" type="checkbox"/> varies _____ m			

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)					✓
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N
Clean Bedrock, free from mud and cobbles. Seems to be fractured.	✓		✓	
Field spots check has been done with an excavator at different stations and every thing is OK.				
The measurements of the bed lake did on the boat are ritten next to the drawings of the contractor for a better comparison.				

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

KCG REPRESENTATIVE

NAME

Tezera Azmatch

Maxime Côté

Pier-Eric McDond

SERGE Lalancette

SIGNATURE

[Signature]

[Signature]

[Signature]

[Signature]

DATE

Aug. 17, 2018

2018-08-17

2018-08-17.

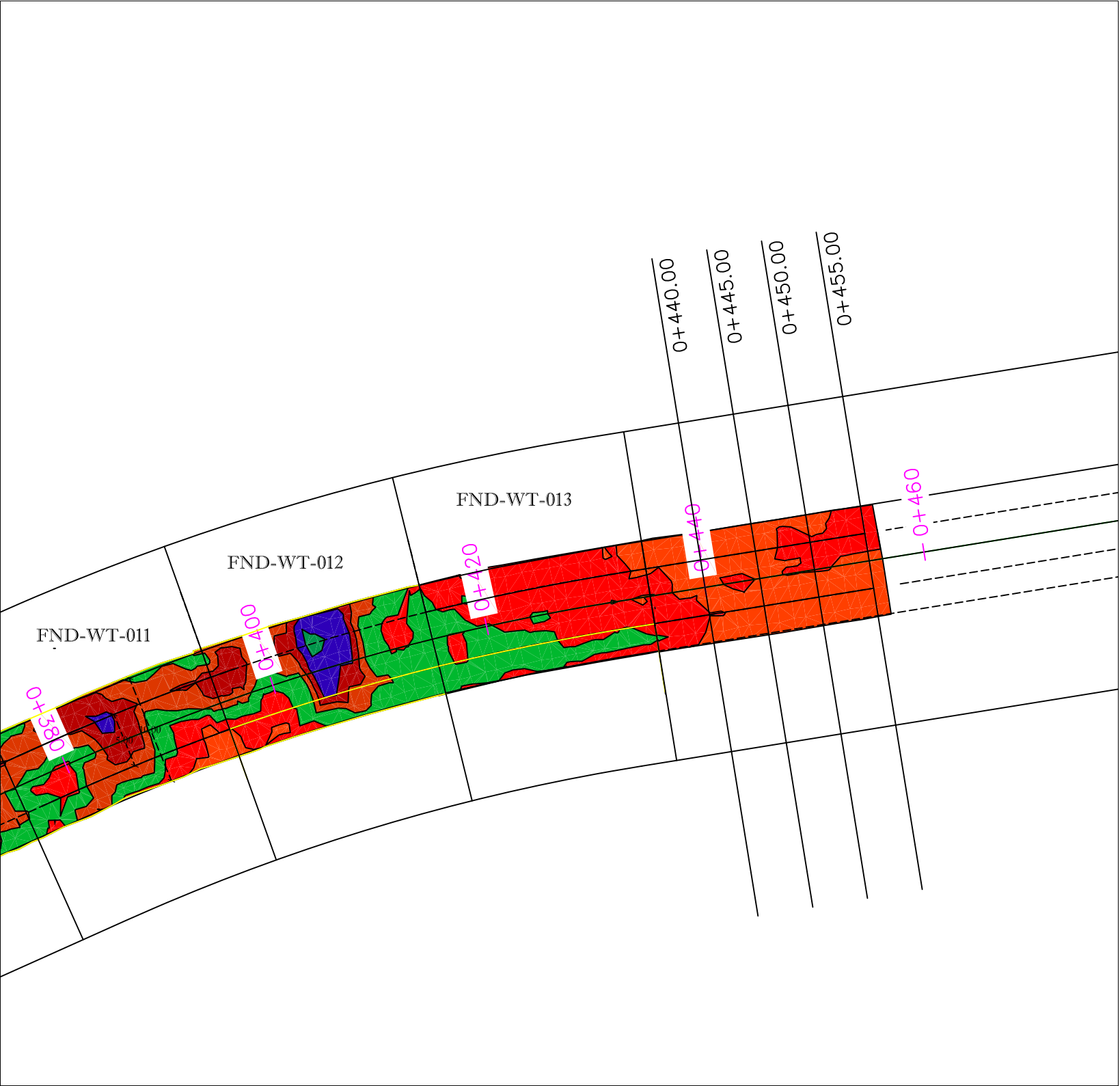
2018-08-17

FND-WT-015

FOUNDATION APPROVAL - WHALE TAIL

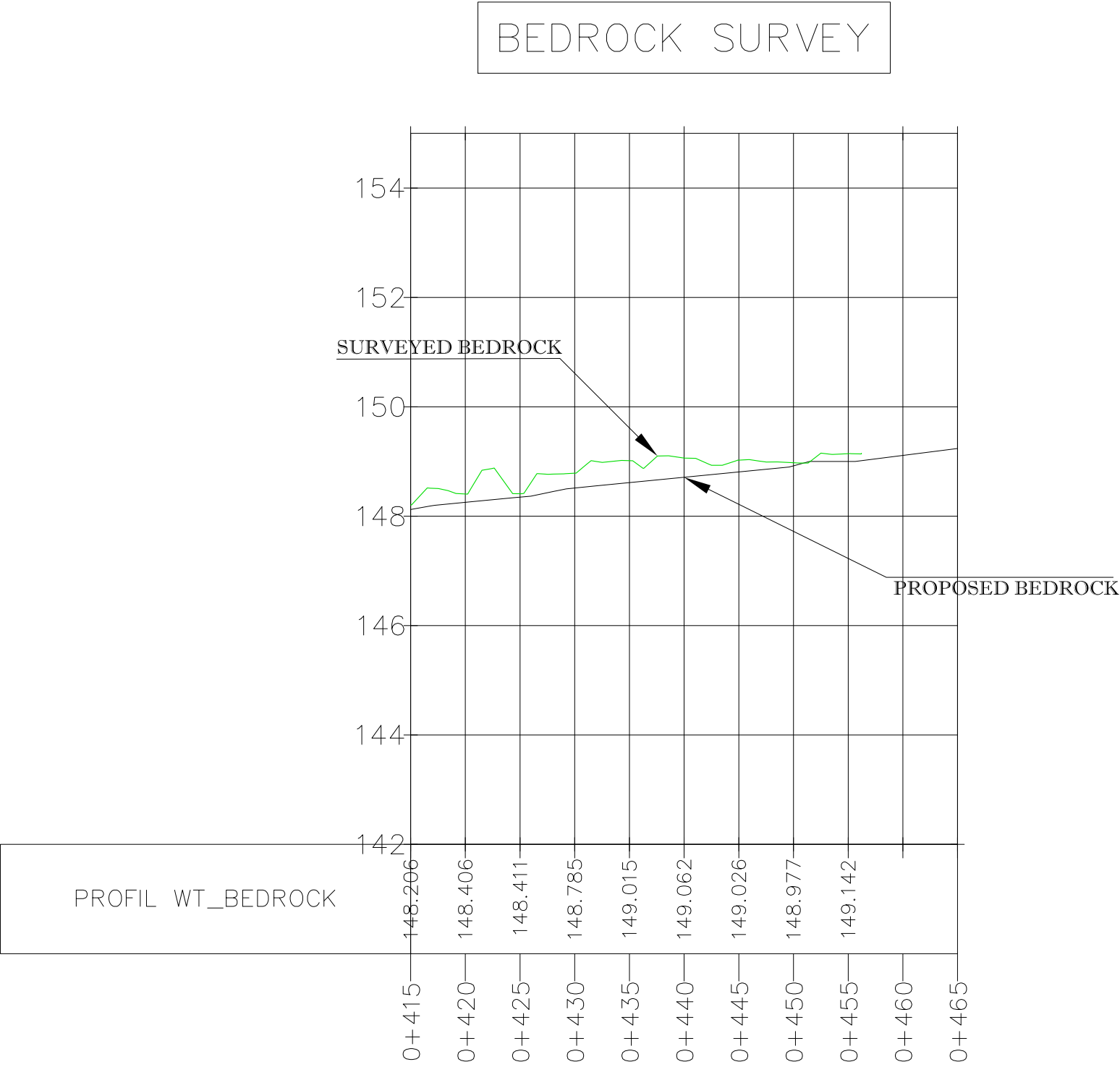
CONTRACT # 11-811

Elevations Table				
Number	Minimum Elevation	Maximum Elevation	Area	Color
1	143.00	143.50	0.00	■
2	143.50	144.00	13.07	■
3	144.00	144.50	33.80	■
4	144.50	145.00	32.96	■
5	145.00	145.50	23.02	■
6	145.50	146.00	17.15	■
7	146.00	146.50	32.42	■
8	146.50	147.00	59.31	■
9	147.00	147.50	79.02	■
10	147.50	148.00	111.96	■
11	148.00	148.50	81.81	■
12	148.50	149.00	60.86	■
13	149.00	149.50	64.91	■
14	149.50	150.00	211.36	■
15	150.00	150.50	237.84	■
16	150.50	151.00	525.94	■
17	151.00	151.50	471.13	■
18	151.50	152.00	546.99	■
19	152.00	152.50	231.75	■
20	152.50	153.00	6.75	■



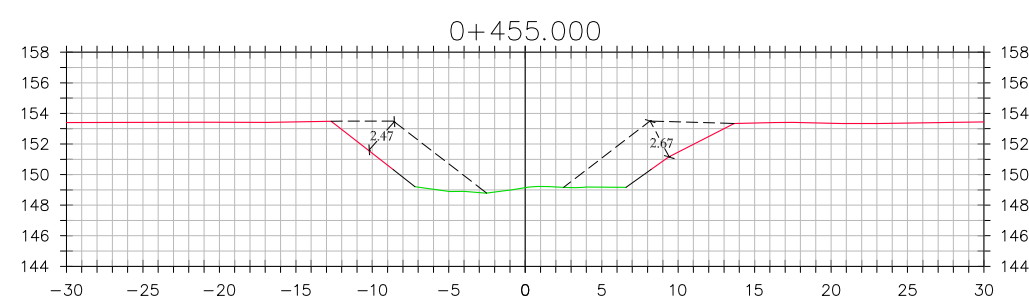
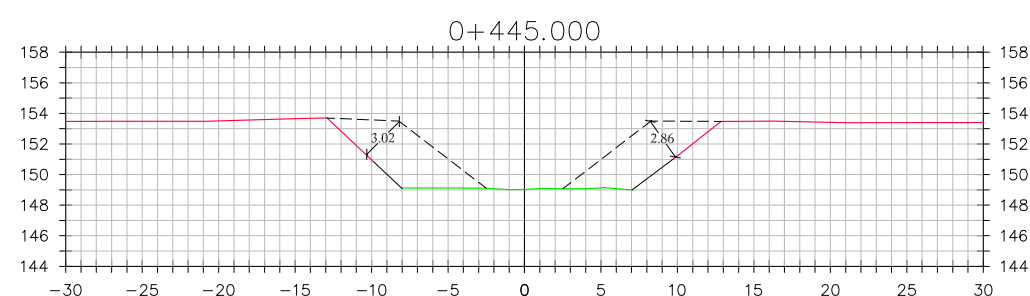
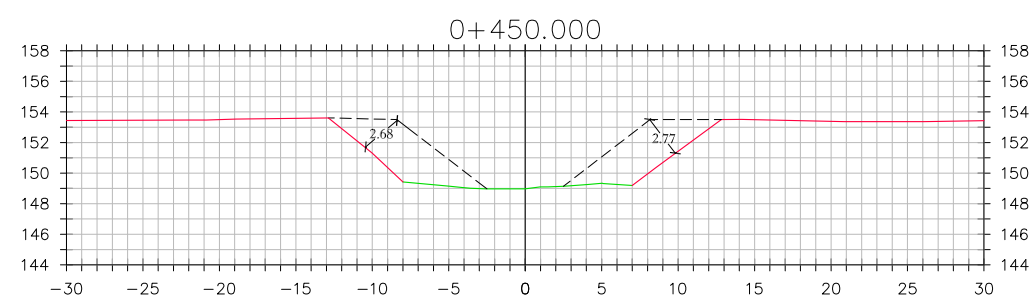
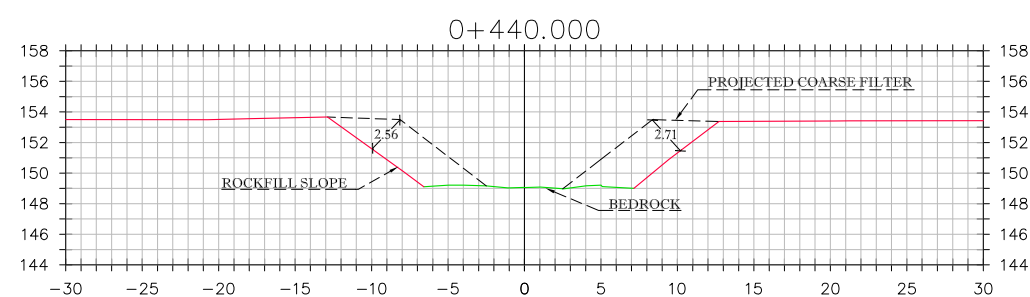
C:\Dropbox\Dropbox (Groupe Silver)_percentage meadowbank\2018\02-E - OFFICIAL DRAWING\11-811 - AMO DIKES\CON-FD (AS BUILT)\CON-FD-040_FA.dwg

FND-WT-015
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811



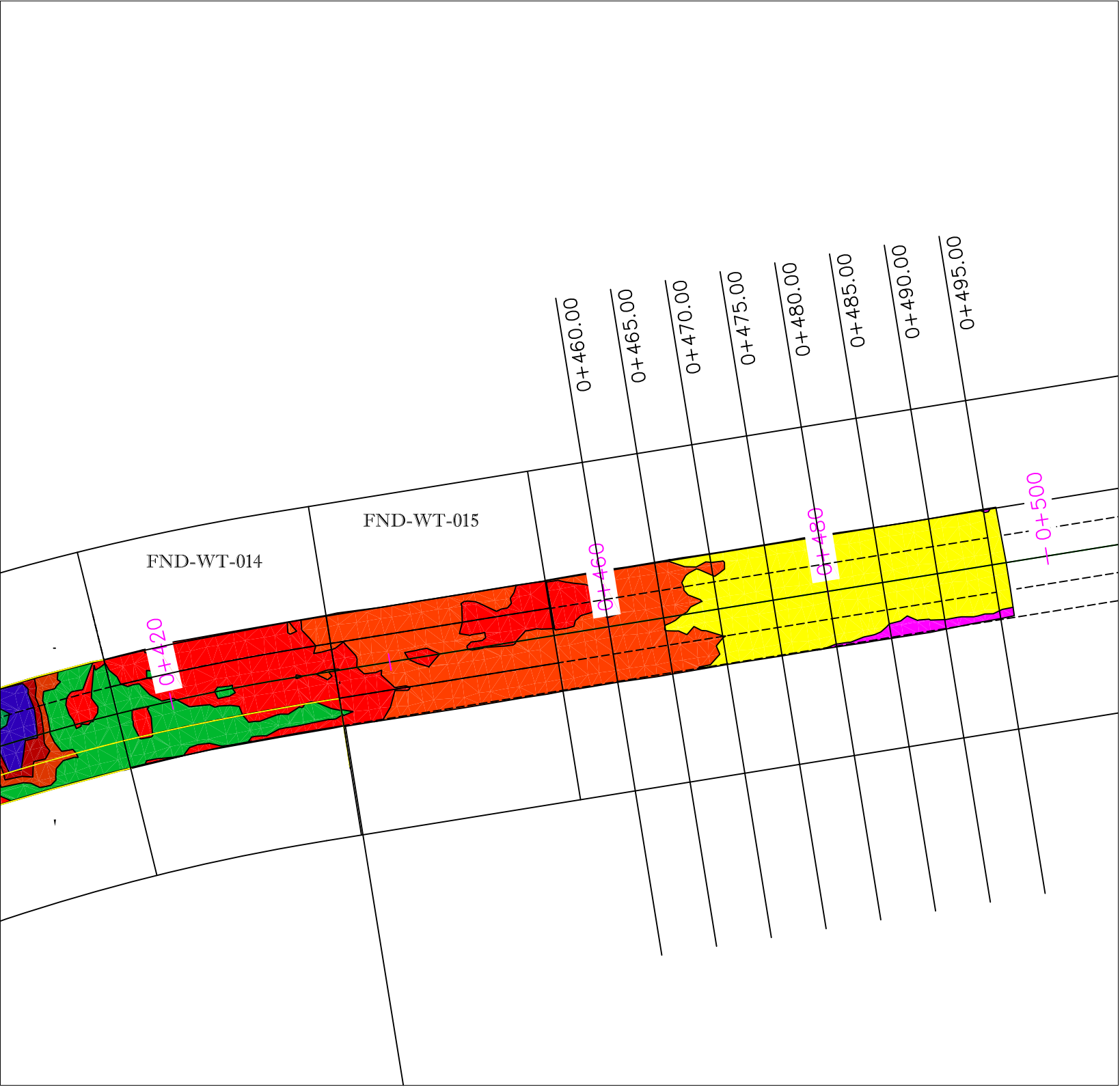
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FND-WT-015
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811



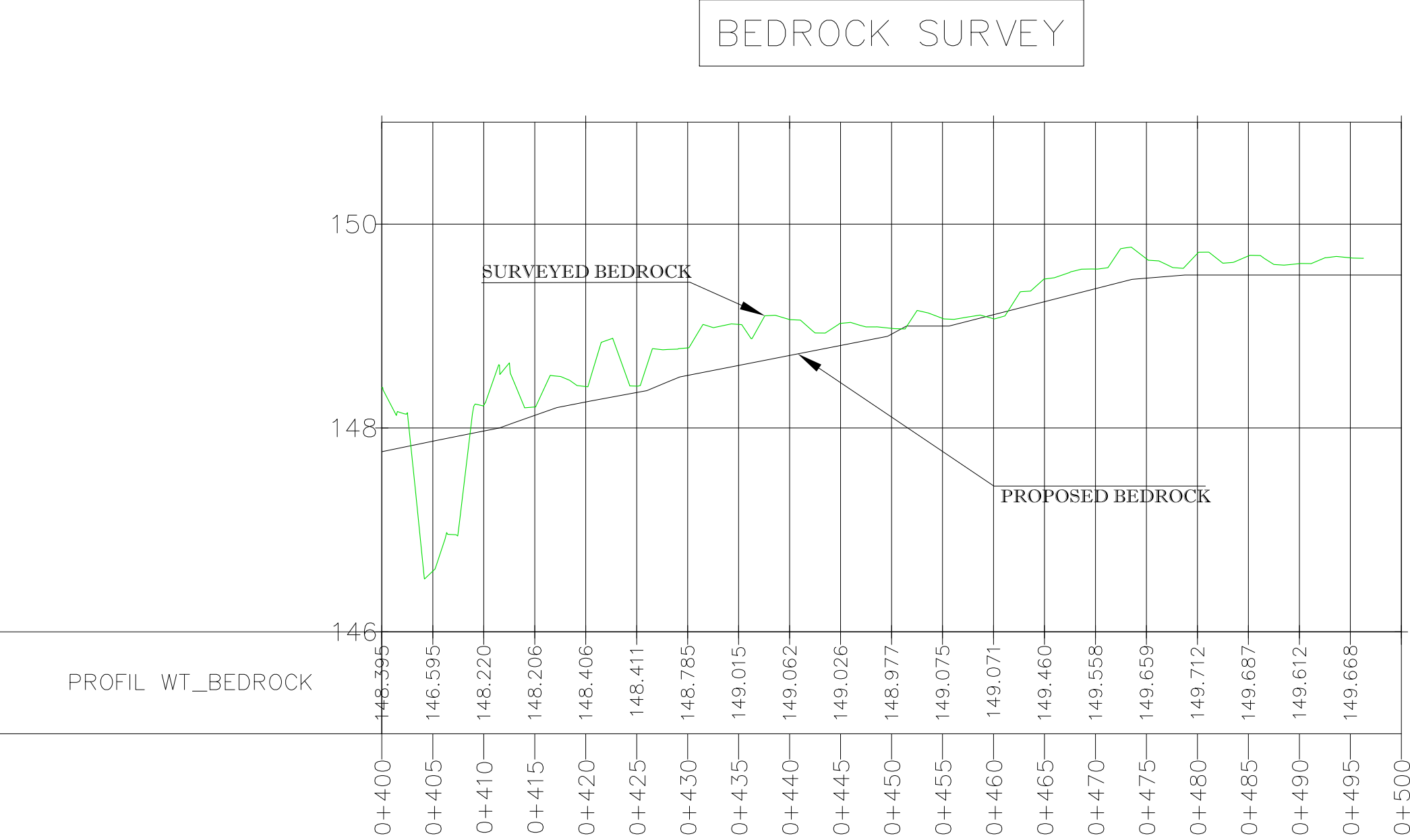
FND-WT-016
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811

Elevations Table				
Number	Minimum Elevation	Maximum Elevation	Area	Color
1	143.00	143.50	0.00	■
2	143.50	144.00	13.07	■
3	144.00	144.50	33.80	■
4	144.50	145.00	32.96	■
5	145.00	145.50	23.02	■
6	145.50	146.00	17.15	■
7	146.00	146.50	32.42	■
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9	147.00	147.50	79.02	■
10	147.50	148.00	111.96	■
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15	150.00	150.50	237.84	■
16	150.50	151.00	525.94	■
17	151.00	151.50	471.13	■
18	151.50	152.00	546.99	■
19	152.00	152.50	231.75	■
20	152.50	153.00	6.75	■



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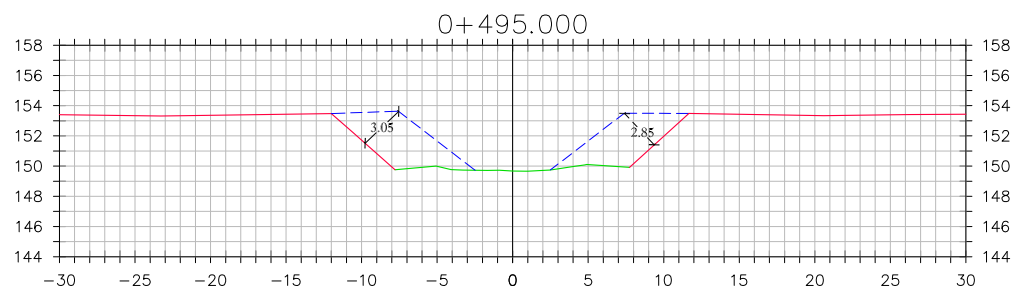
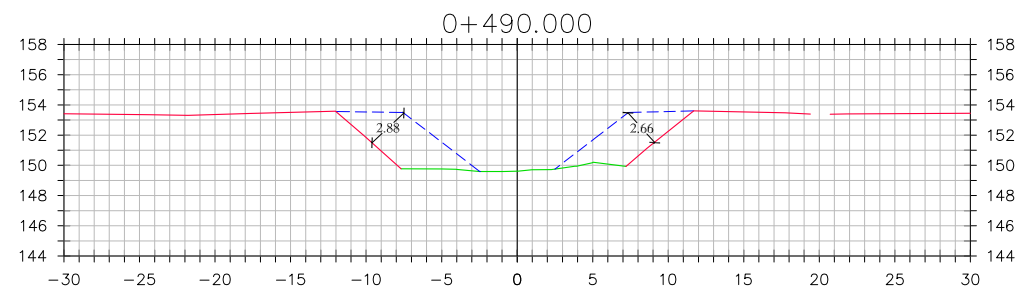
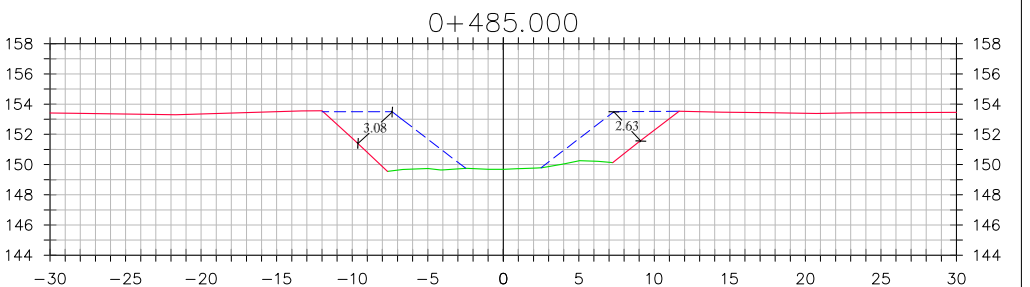
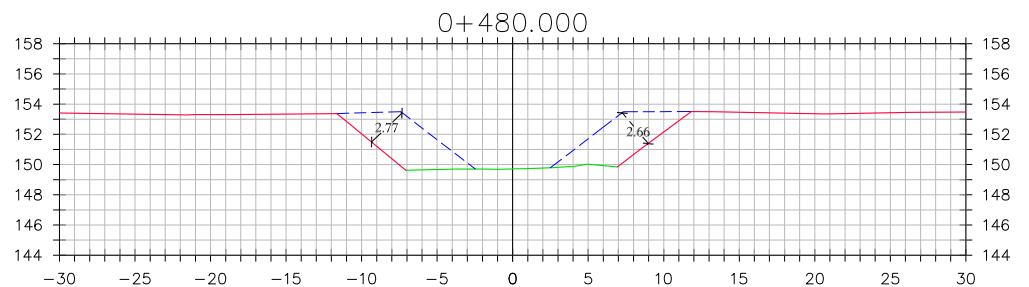
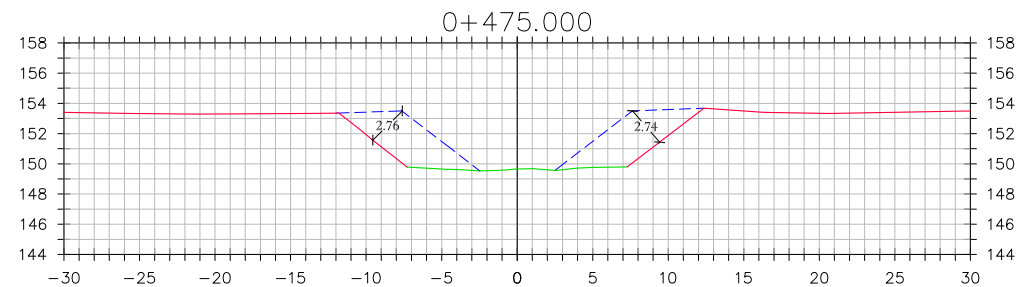
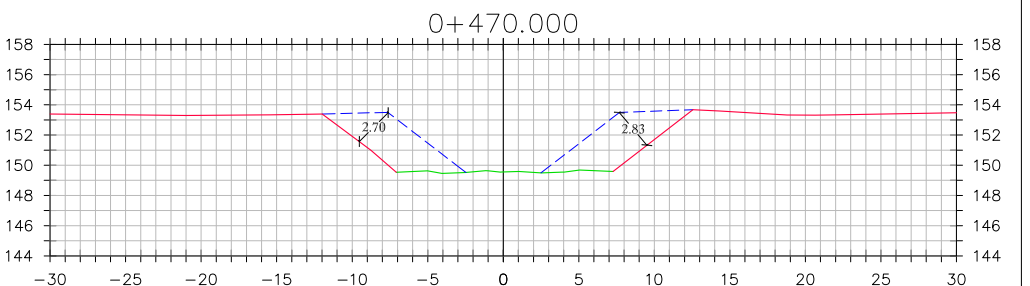
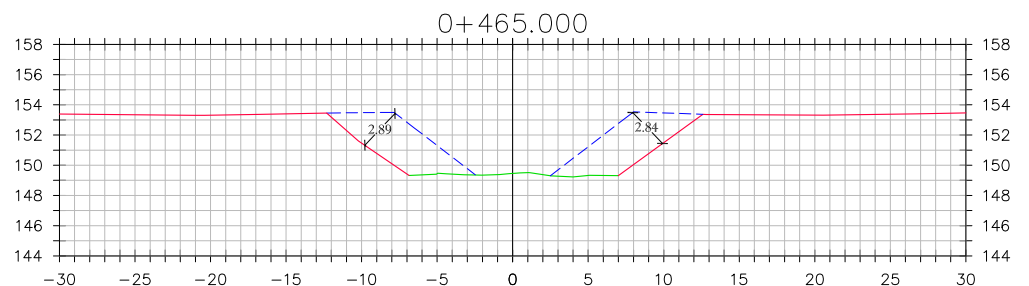
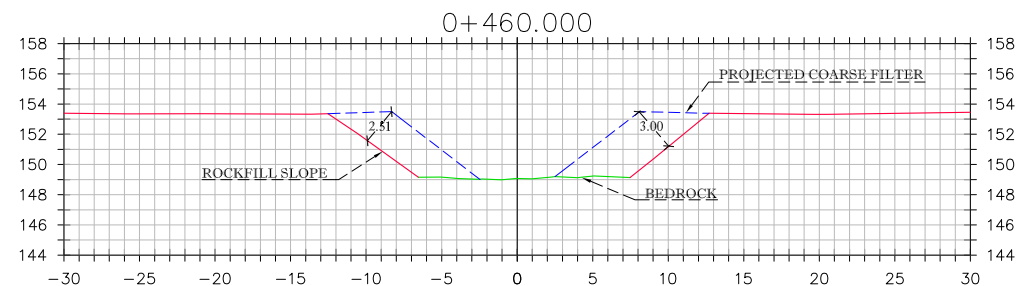
FND-WT-016
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811



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FND-WT-016
FOUNDATION APRPROVAL - WHALE TAIL
CONTRACT # 11-811

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PREPARED BY : MARC-ANDRÉ BLACKBURN
DATE : 17-08-2018
CON-FD-042_FA

PROJECT : WTD Construction
PROJECT #: 658309
DOCUMENT #: 20180818-DS-01
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: August 18, 2018
TIME: 8:25
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☒ Foundation approval (key trench)
- ☐ Fill placement: _____
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+475 to 0+495</u>	Station: <u>0+435 to 0+475</u>
Inclination: _____	Details: _____
ELEVATION : <input checked="" type="checkbox"/> varies _____ m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
2. Free of ice/snow/water	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
3. Cleaning of trench and/or pile bottom	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
4. Gradation (visual)			<input checked="" type="checkbox"/>		
5. Placement (lift thickness, segregation, etc.)					<input checked="" type="checkbox"/>
6. Compaction					<input checked="" type="checkbox"/>
7. Foundation on bedrock					<input checked="" type="checkbox"/>
8. Key-in depth into bedrock					<input checked="" type="checkbox"/>
9. Water quality					<input checked="" type="checkbox"/>
10. CB slurry viscosity and density					<input checked="" type="checkbox"/>
11. Elevation of CB Piles					<input checked="" type="checkbox"/>
12. Primary piles strength (Minimum of 50 kPa UCS)					<input checked="" type="checkbox"/>
13. Keying between primary and secondary					<input checked="" type="checkbox"/>
14. Cracks on top of cutoff wall					<input checked="" type="checkbox"/>

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
	Clean bedrock, free of ice, mud and cobbles. Seems to be fractured, but less than the section before (0+455 to 0+475). Field spots check has been done at different stations and every thing is ok.	✓		✓	
	See the boat measurements ritten on the contractor drawings for comparisons with their own bathymetry.				

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE
CONSTR. REP.

NAME

TEZERA AZMATH
Maxime Côté
Diane MacDonald
AUDREY BLODGETT

SIGNATURE

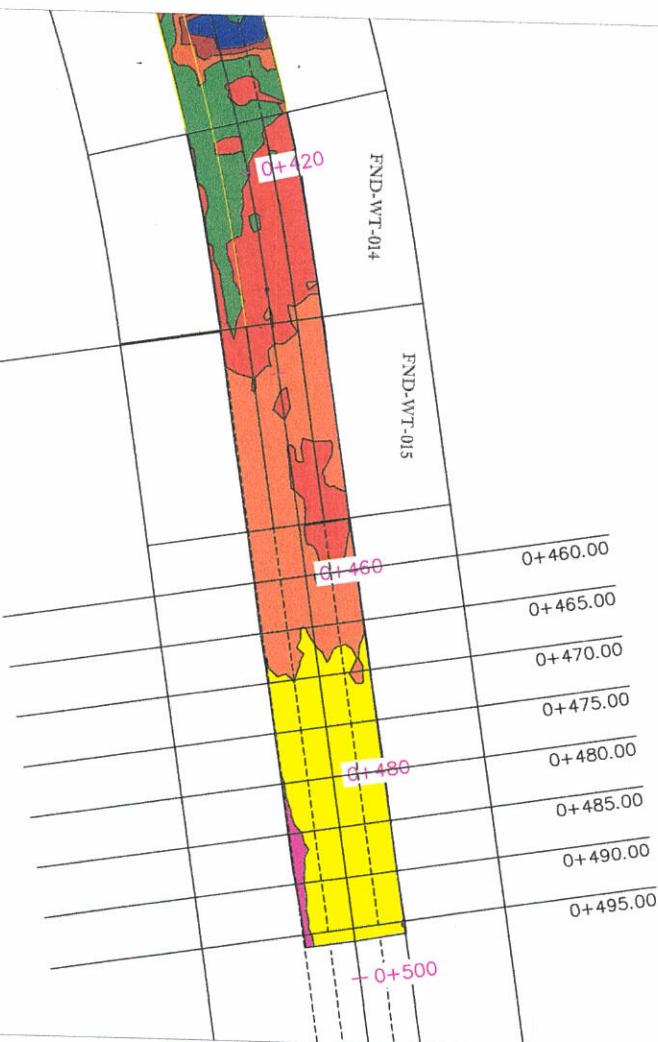
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DATE

AUG. 18 / 2018
2018-08-18
2018-08-18
2018/08/18

FND-WT-016 FOUNDATION APPROVAL - WHALE TAIL CONTRACT # 11-811

Elevations Table				
Number	Minimum Elevation	Maximum Elevation	Area	Color
1	143.00	143.50	0.00	
2	143.50	144.00	13.07	
3	144.00	144.50	33.80	
4	144.50	145.00	32.96	
5	145.00	145.50	23.02	
6	145.50	146.00	17.15	
7	146.00	146.50	32.42	
8	146.50	147.00	59.31	
9	147.00	147.50	79.02	
10	147.50	148.00	111.96	
11	148.00	148.50	81.81	
12	148.50	149.00	60.86	
13	149.00	149.50	64.91	
14	149.50	150.00	211.36	
15	150.00	150.50	237.84	
16	150.50	151.00	525.94	
17	151.00	151.50	471.13	
18	151.50	152.00	546.99	
19	152.00	152.50	231.75	
20	152.50	153.00	6.75	



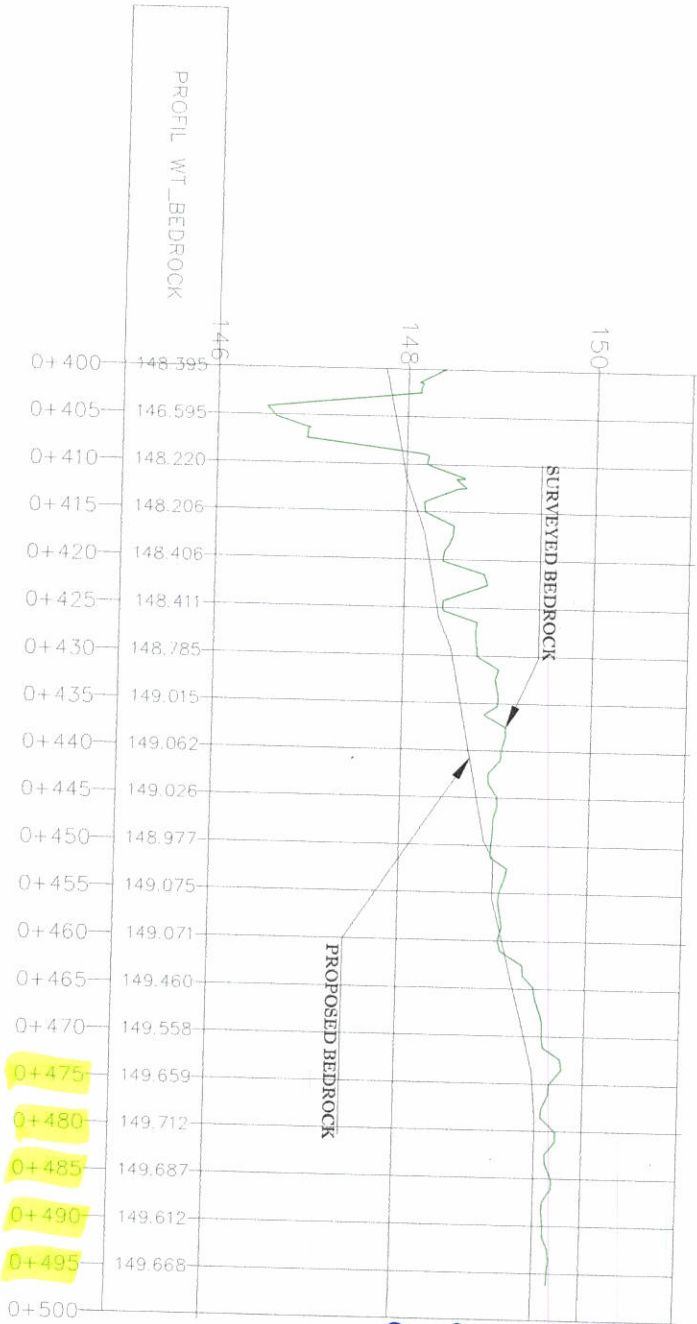


KIVALLO CONTRACTORS
GROUP LTD

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FND-WT-016
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811

BEDROCK SURVEY



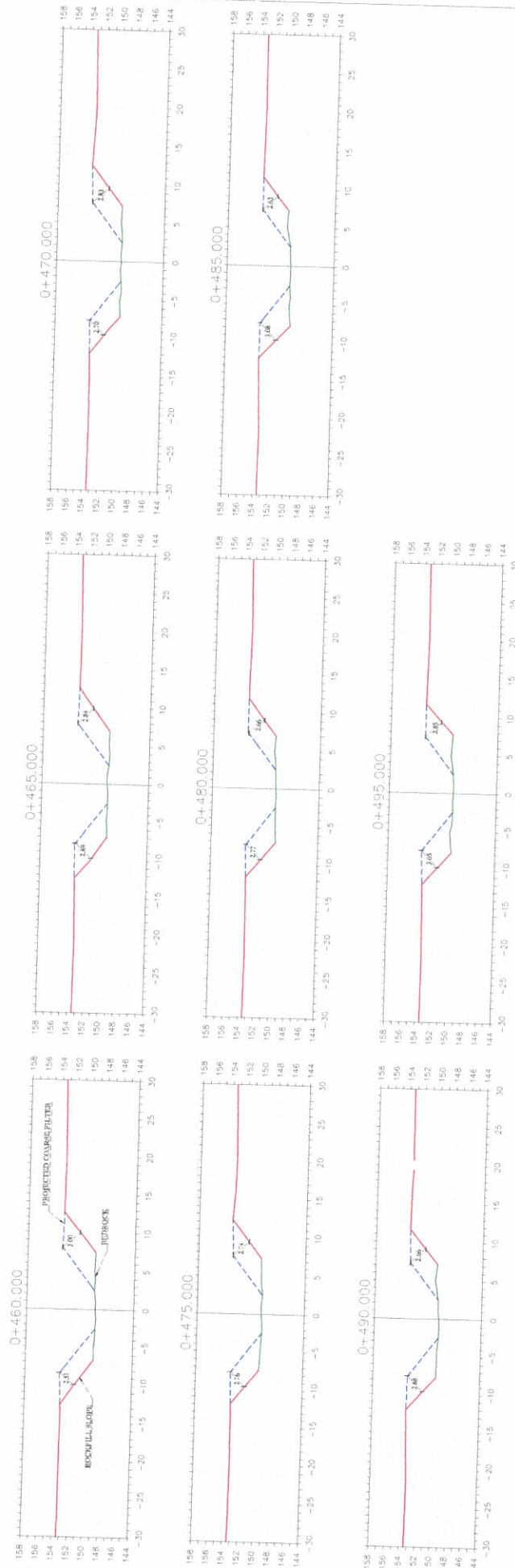
Stations	o/s	Bedrock Level
0+479,50	€	150,11m
0+485,00	€	149,81m
0+489,50	€	149,84m
0+494,00	€	149,84m

GHD

2018-08-18

PREPARED BY : MARC-ANDRÉ BLACKBURN
DATE: 17-08-2018
CON-FD-042_FA

FND-WT-016 FOUNDATION APPROVAL - WHALE TAIL CONTRACT # 11-811



PROJECT : WTD Construction
PROJECT #: 658309
DOCUMENT #: 20180818-DS-02
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: August 18, 2018
TIME: 17:05
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☒ Foundation approval (key trench)
- ☐ Fill placement: _____
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station <u>0+495 to 0+515</u>	Station: <u>0+475 to 0+495</u>	
Inclination: _____	Details: _____	
ELEVATION : <input checked="" type="checkbox"/> varies _____ m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
2. Free of ice/snow/water	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
3. Cleaning of trench and/or pile bottom	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
4. Gradation (visual)			<input checked="" type="checkbox"/>		
5. Placement (lift thickness, segregation, etc.)					<input checked="" type="checkbox"/>
6. Compaction					<input checked="" type="checkbox"/>
7. Foundation on bedrock					<input checked="" type="checkbox"/>
8. Key-in depth into bedrock					<input checked="" type="checkbox"/>
9. Water quality					<input checked="" type="checkbox"/>
10. CB slurry viscosity and density					<input checked="" type="checkbox"/>
11. Elevation of CB Piles					<input checked="" type="checkbox"/>
12. Primary piles strength (Minimum of 50 kPa UCS)					<input checked="" type="checkbox"/>
13. Keying between primary and secondary					<input checked="" type="checkbox"/>
14. Cracks on top of cutoff wall					<input checked="" type="checkbox"/>

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N
Clean bedrock, free of mud, ice and cobbles. seems to be fractured.	✓		✓	
Field check spots has been done with an excavator after the final clean up with an excavator.				
Bathymetry on a boat has been done as a double check. See the results written next to contractor drawing				

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

Tezera Azmat
Maxime Côté
Pier-Eric McDonald
SERGE LALANDE

SIGNATURE

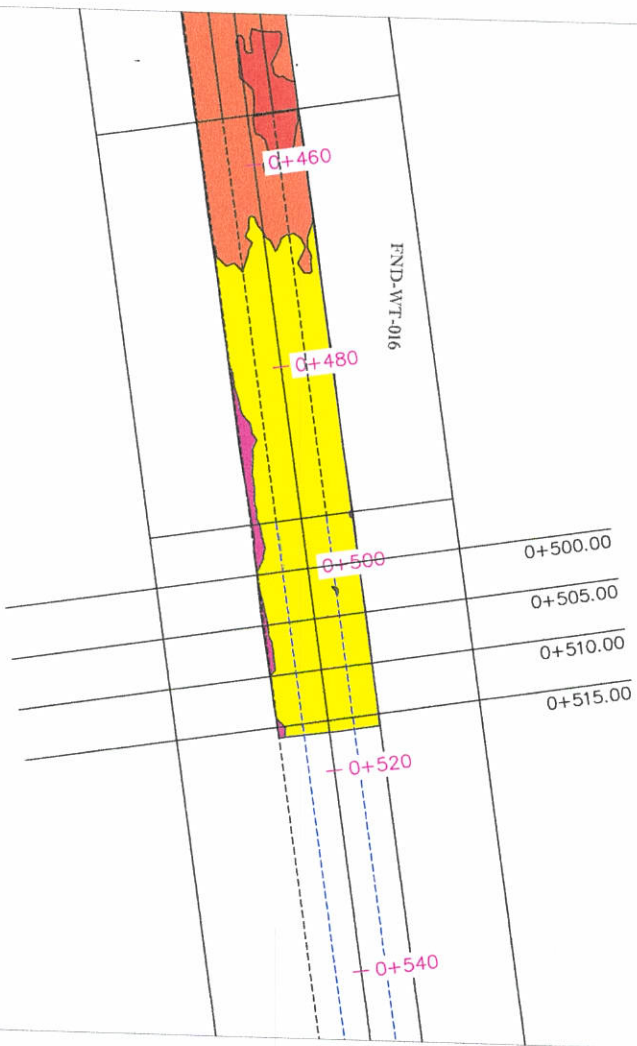
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DATE

August 18, 2018
2018-08-18
2018-08-18
2018-08-18

FND-WT-017 FOUNDATION APPROVAL - WHALE TAIL CONTRACT # 11-811

Elevations Table				
Number	Minimum Elevation	Maximum Elevation	Area	Color
1	143.00	143.50	0.00	
2	143.50	144.00	13.07	
3	144.00	144.50	33.80	
4	144.50	145.00	32.96	
5	145.00	145.50	23.02	
6	145.50	146.00	17.15	
7	146.00	146.50	32.42	
8	146.50	147.00	59.31	
9	147.00	147.50	79.02	
10	147.50	148.00	111.96	
11	148.00	148.50	81.81	
12	148.50	149.00	60.86	
13	149.00	149.50	64.91	
14	149.50	150.00	211.36	
15	150.00	150.50	237.84	
16	150.50	151.00	525.94	
17	151.00	151.50	471.13	
18	151.50	152.00	546.99	
19	152.00	152.50	231.75	
20	152.50	153.00	6.75	



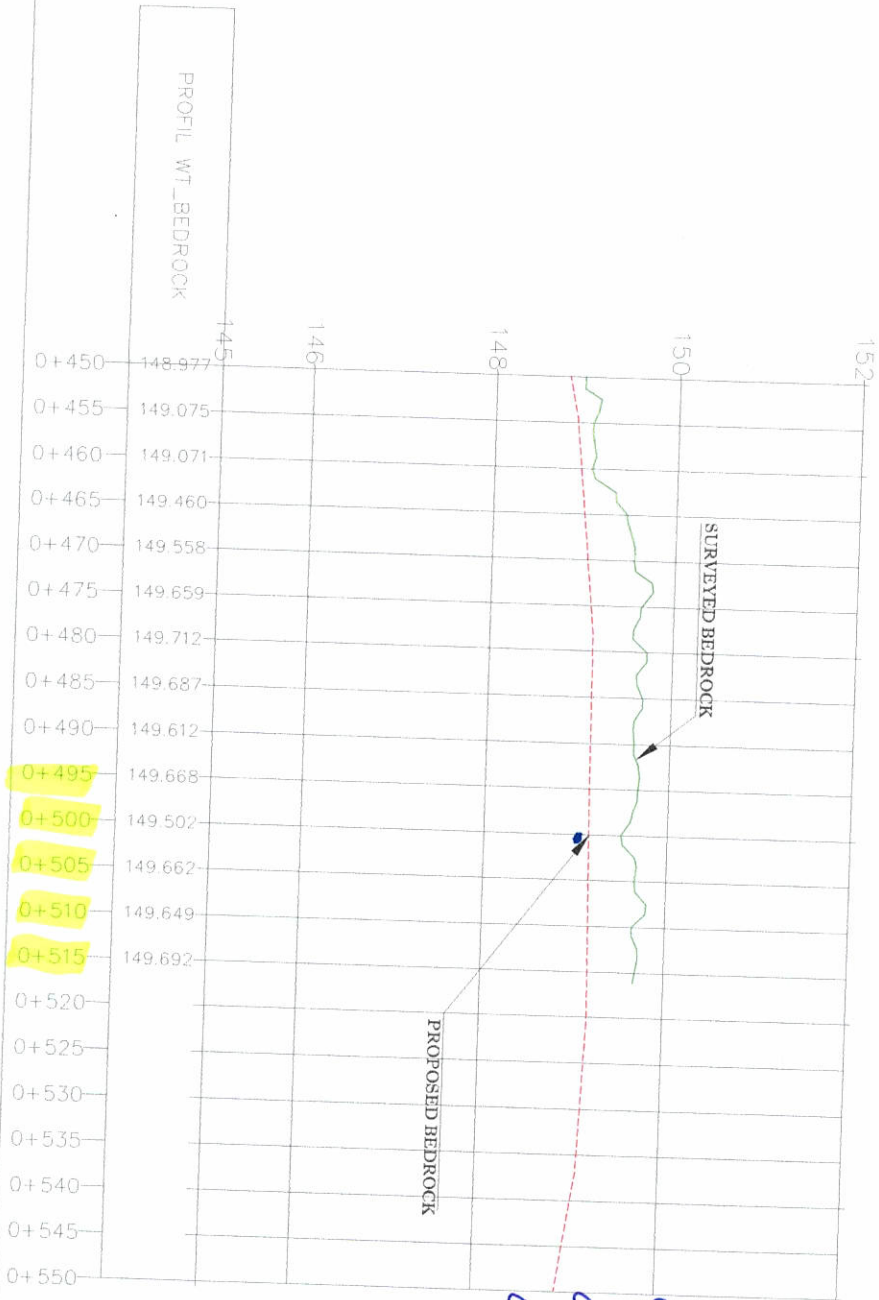
PREPARED BY: MARC-ANDRÉ BLACKBURN
 DATE: 18-08-2018
 CON-FD-044_FA



KIVALLIQ CONTRACTORS
GROUP LTD

FND-WT-017
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811

BEDROCK SURVEY



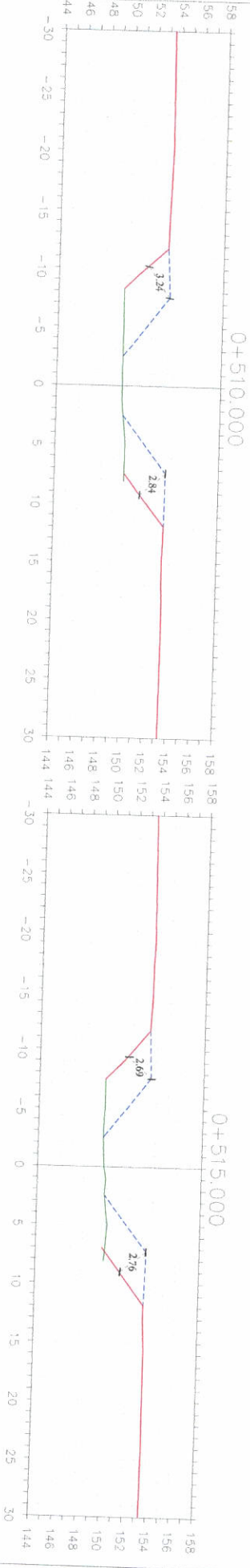
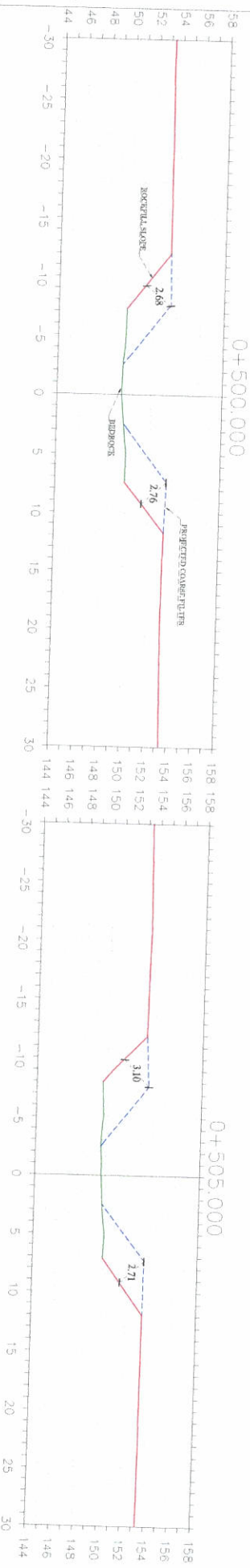
Field measurements (Boat)

Station	Q/S	Bedrock level
0+500.20	£	149.54m
0+504.50	£	149.84m
0+510.00	£	149.83m
0+515.20	£	149.83m

[Handwritten signature]
G41/D

2018-08-18

FND-WT-017 FOUNDATION APPROVAL - WHALE TAIL CONTRACT # 11-811



KIVALLIQ CONTRACTORS
 GROUP LTD

PREPARED BY : MARC-ANDRÉ BLACKBURN
 DATE : 18-08-2018
 CON-FD-04-FA

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309
DOCUMENT #: 20180819-NS-01
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: 2018-08-19
TIME: 4:55
(24 hour clock)

APPROVAL FOR :

- ☒ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☐ Fill placement: _____
- ☐ CB cutoff wall approval
- ☐ Other: _____

<u>LOCATION</u>	<u>PREVIOUS APPROVALS</u>
Station <u>0+772 to 0+790</u>	Station: <u>0+739 to 0+792</u>
Inclination: _____	Details: _____
ELEVATION : <input checked="" type="checkbox"/> varies _____ m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)					✓
5. Placement (lift thickness, segregation, etc.)					✓
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed	✓		✓		
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
2	NO ICE-RICH MATERIAL LEFT IN PLACE (FOUNDATION FLOOR).	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

Contractor REP.

NAME

MATHIEU SÉPÉQUEL

Denis J. Lacombe

Pierre-Eric McDonald

Damien GAGNON

SIGNATURE

[Signature]

[Signature]

[Signature]

[Signature]

DATE

2018-08-19

2018-08-19

2018-08-19

2018-08-19

PROJECT : WTD construction
PROJECT #: 6583 09
DOCUMENT #: 20180819-DS-02
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift
DATE: Aug. 19, 2018
TIME: _____
(24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☒ Foundation approval (key trench)
☐ Fill placement: _____
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+515 to 0+555</u>	Station:	<u>0+495 to 0+515</u>
Inclination:	_____	Details:	_____
ELEVATION	: <input checked="" type="checkbox"/> varies _____ m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

COMPLIANCE WITH TECHNICAL SPECIFICATIONS: (Add additional items if needed)		VERIFICATIONS DONE BY:				
		QA		QC		N/A
		Y	N	Y	N	
1. Lines and grades		✓		✓		
2. Free of ice/snow/water		✓		✓		
3. Cleaning of trench and/or pile bottom		✓		✓		
4. Gradation (visual)						
5. Placement (lift thickness, segregation, etc.)						✓
6. Compaction						✓
7. Foundation on bedrock						✓
8. Key-in depth into bedrock						✓
9. Water quality						✓
10. CB slurry viscosity and density						✓
11. Elevation of CB Piles						✓
12. Primary piles strength (Minimum of 50 kPa UCS)						✓
13. Keying between primary and secondary						✓
14. Cracks on top of cutoff wall						✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N
Clean bedrock, free of mud, ice and cobbles.	✓		✓	
Field check spots has been done to prove it at different stations.				
It seems to be fractured rock.				
Bathymetry double check has been done with the GPS excavator instead of the boat due to the strong winds see with the drawings of the contractor.				

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

COONST. REP

NAME

Tezera Azmarch
Maxime Côté
Pier-Éric McDonald
ANDREY BILORSEAL

SIGNATURE

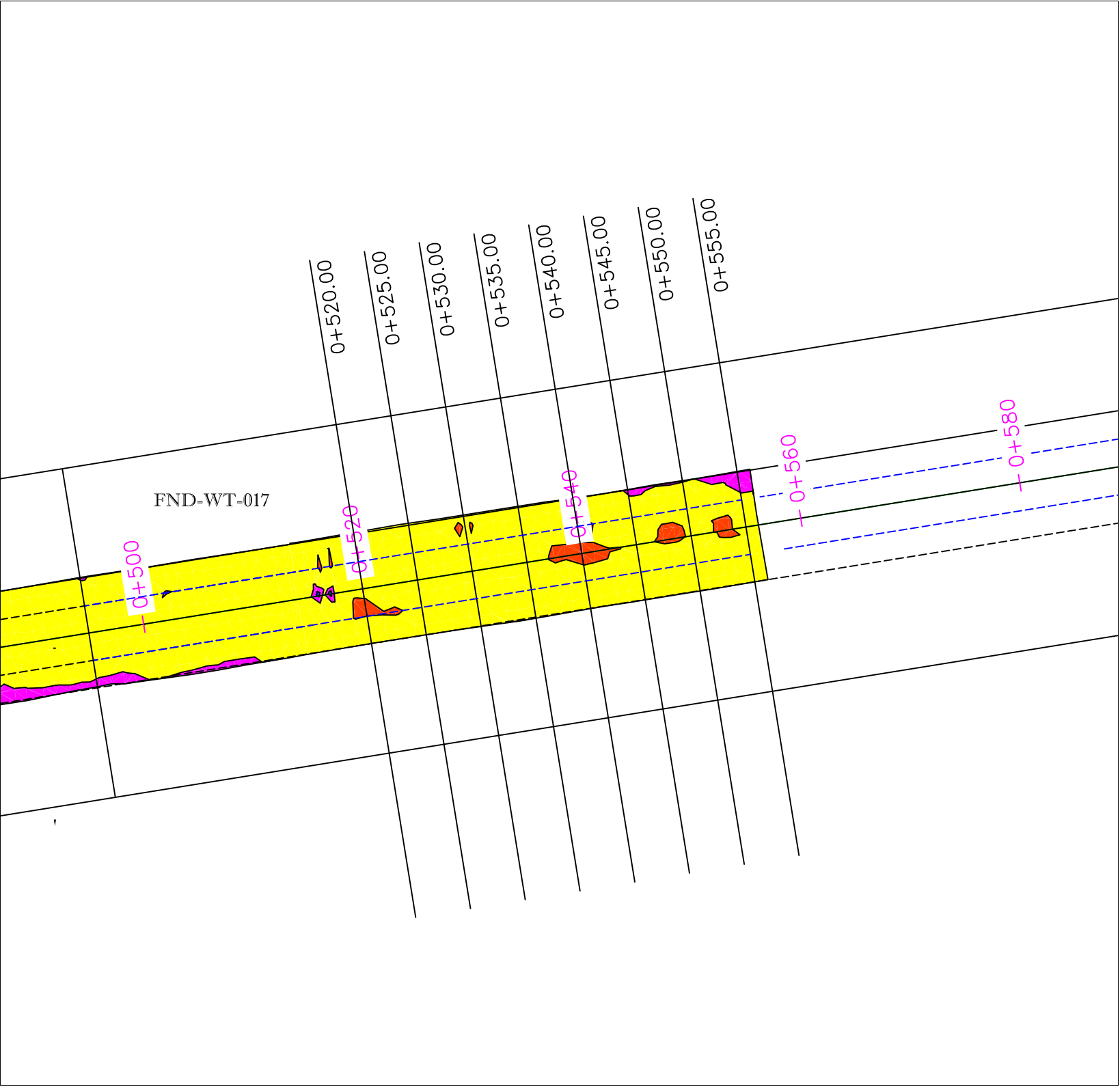
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DATE

Aug. 19, 2018
2018-08-19
2018-08-19
2018/08/19

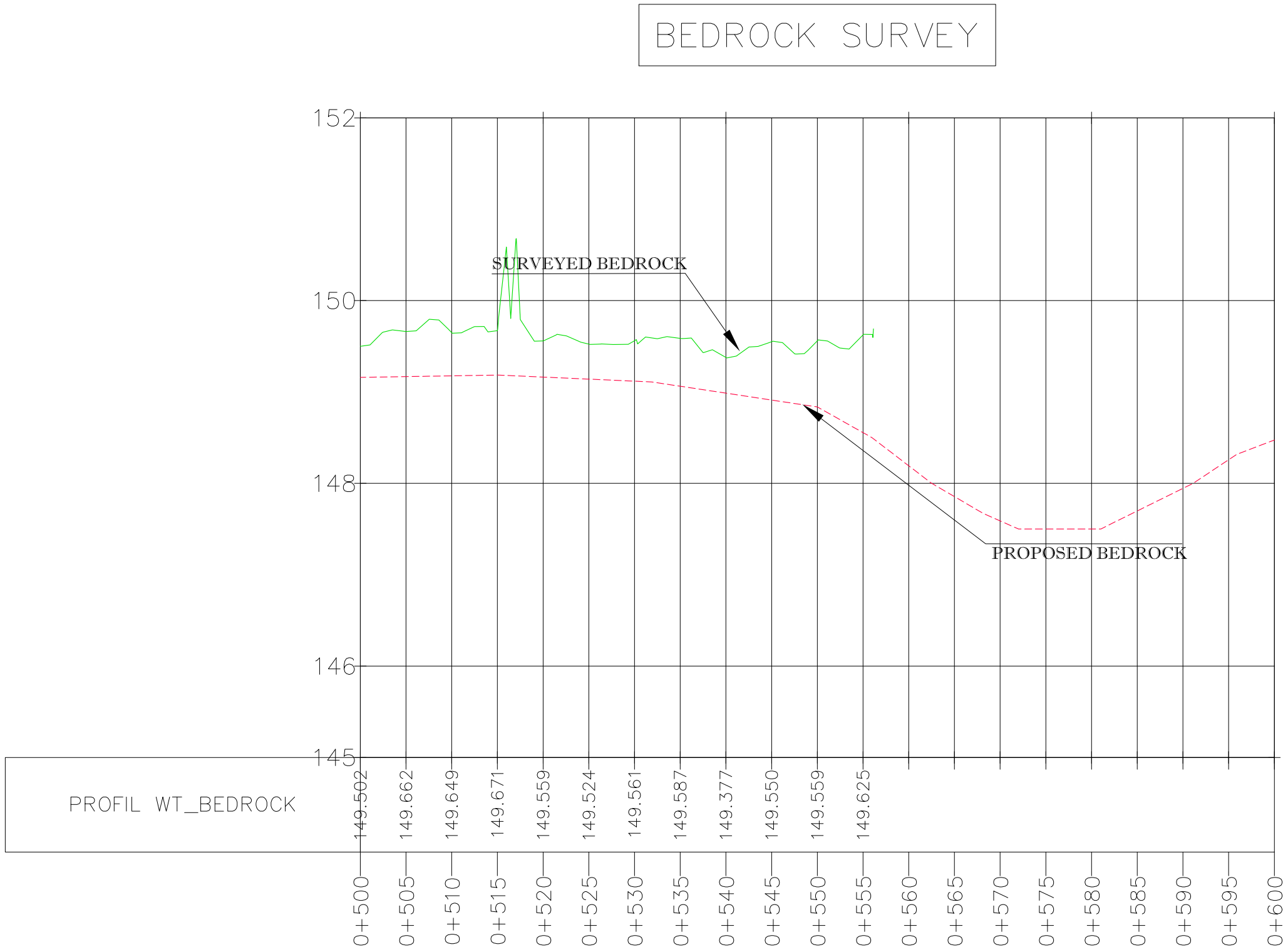
FND-WT-018
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811

Elevations Table				
Number	Minimum Elevation	Maximum Elevation	Area	Color
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2	143.50	144.00	13.07	■
3	144.00	144.50	33.80	■
4	144.50	145.00	32.96	■
5	145.00	145.50	23.02	■
6	145.50	146.00	17.15	■
7	146.00	146.50	32.42	■
8	146.50	147.00	59.31	■
9	147.00	147.50	79.02	■
10	147.50	148.00	111.96	■
11	148.00	148.50	81.81	■
12	148.50	149.00	60.86	■
13	149.00	149.50	64.91	■
14	149.50	150.00	211.36	■
15	150.00	150.50	237.84	■
16	150.50	151.00	525.94	■
17	151.00	151.50	471.13	■
18	151.50	152.00	546.99	■
19	152.00	152.50	231.75	■
20	152.50	153.00	6.75	■



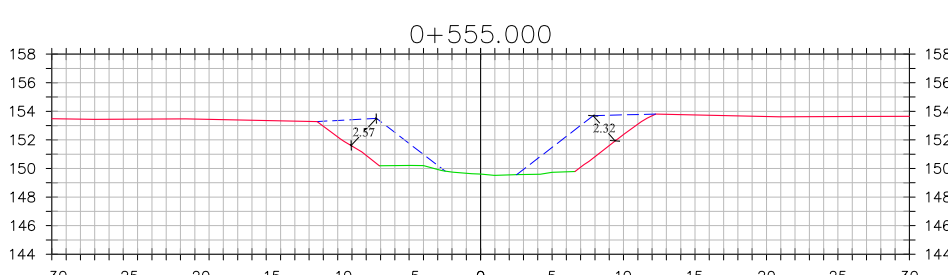
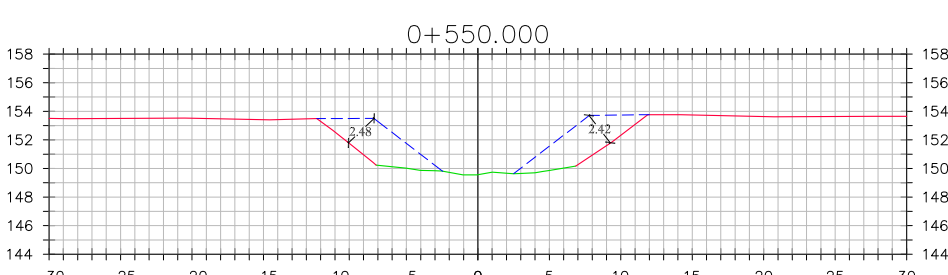
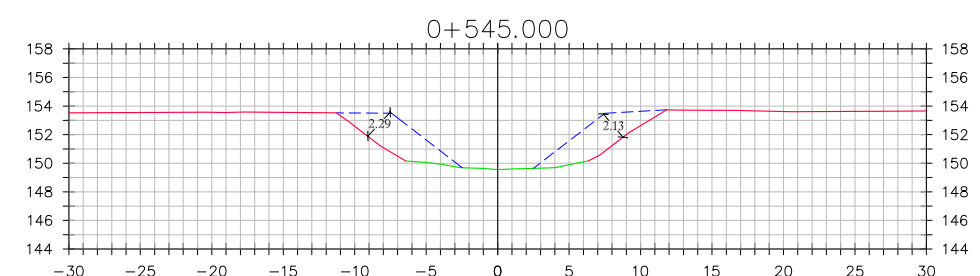
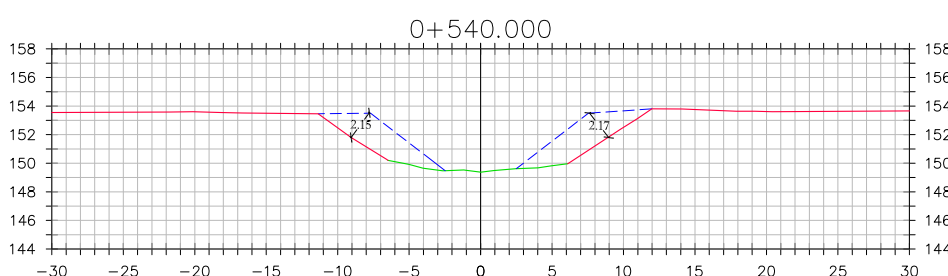
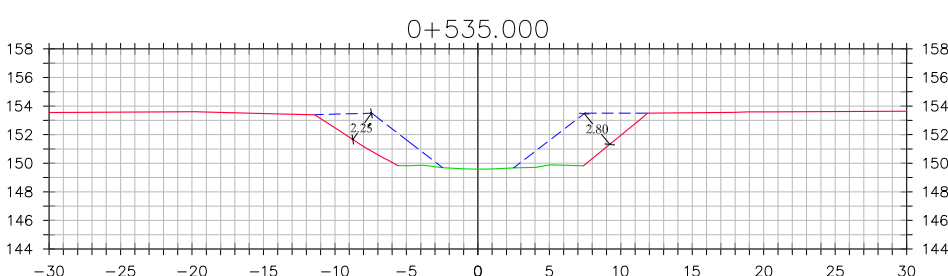
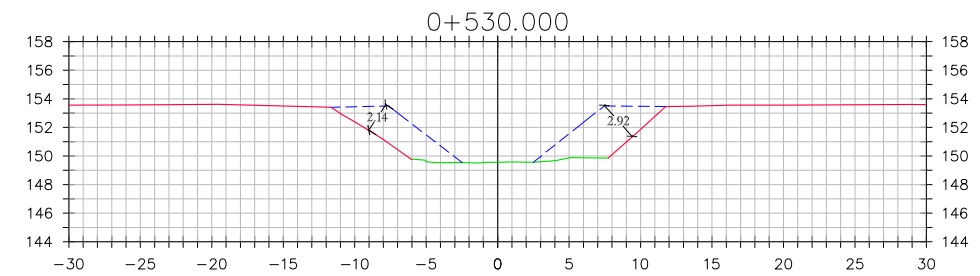
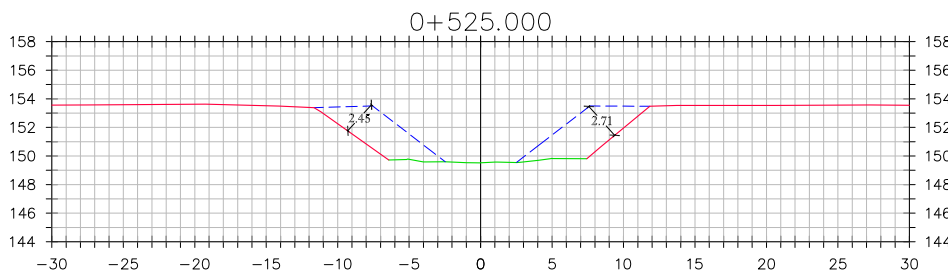
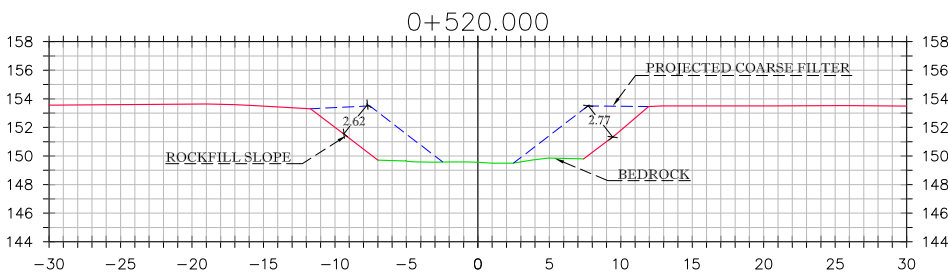
C:\Dropbox\Dropbox (Groupe Gilbert)_percentage meadowbank\2018\02-E - OFFICIAL DRAWING\11-811 - AMO DIKES\CON-FD (AS BUILT)\CON-FD-046_FA.dwg

FND-WT-018
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811



c:\Dropbox\Dropbox (Groupe Gilbert)\arptage medowbank\2018\02-E - OFFICIAL DRAWING\11-811 - AMQ DIKES\CON-FD (AS BUILT)\CON-FD-046_FA.dwg

FND-WT-018
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811



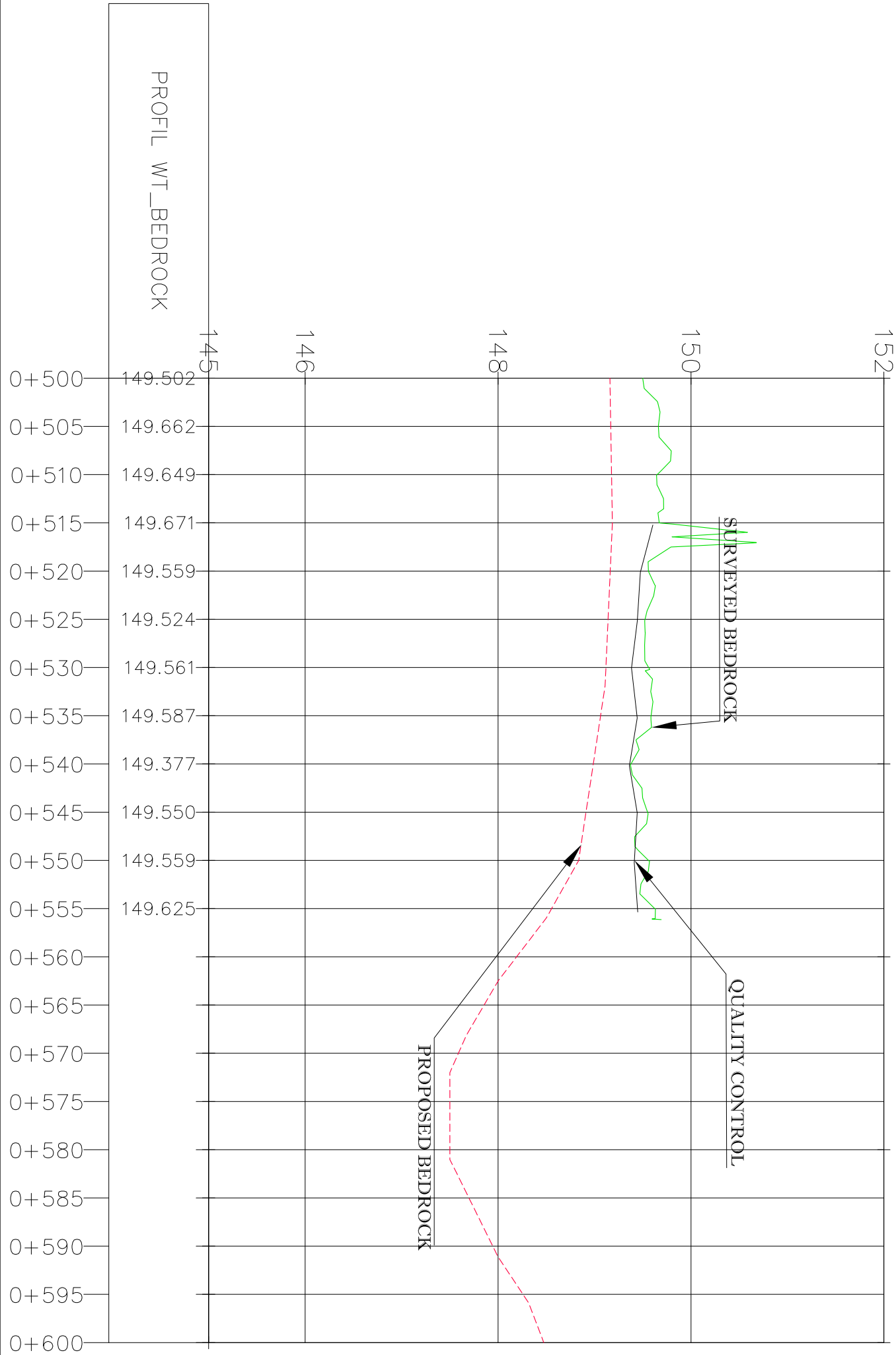
c:\Dropbox\Dropbox (Groupe Gilbert)\arpenage meadowbank\2018\02-E - OFFICIAL DRAWING\11-811 - AMO DIKES\CON-FD (AS BUILT)\CON-FD-046_FA.dwg



PREPARED BY : MARC-ANDRÉ BLACKBURN
DATE : 19-08-2018
CON-FD-046_FA

FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811

BEDROCK SURVEY



PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-20
DOCUMENT #: 20180820-NS-01 TIME: 5:50
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☒ Foundation approval (footprint)
Foundation approval (key trench)
☐ Fill placement: _____
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station	<u>0+790 to 0+808</u>	Station: <u>0+778 to 0+790</u>
Inclination:		Details: _____
ELEVATION	<input checked="" type="checkbox"/> varies from <u>152.7</u> to <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of <u>trench and/or pile bottom</u> <u>Foundation floor</u>	✓		✓		
4. Gradation (visual)					✓
5. Placement (lift thickness, segregation, etc.)					✓
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed	✓		✓		
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

		APPROVED BY:			
		QA		QC	
ITEM		Y	N	Y	N
3	FOUNDATION ON FROZEN SOIL, FREE OF	✓		✓	
	EXCESS ICE AND WATER PONDING				

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

CONSTR. REP

NAME

MATHIEU SEZÉQUEL

Denis J. Coulombe

Pier-Eric McDonald

ANDRÉ BILLODEAU

SIGNATURE

[Signature]

[Signature]

[Signature]

[Signature]

DATE

2018-08-20

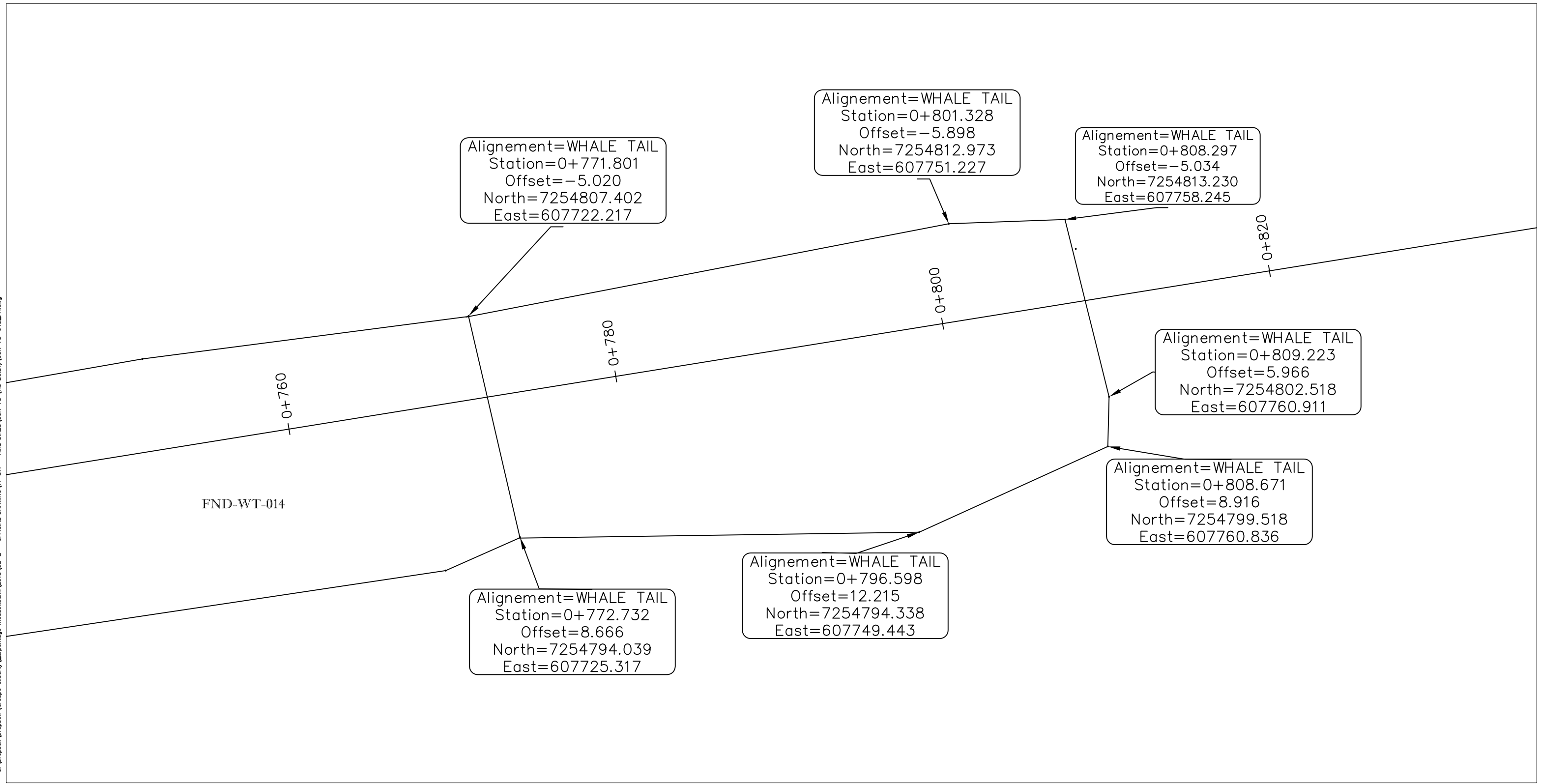
2018-08-20

2018-08-20

2018/08/20

FND-WT-020
WHALE TAIL DIKE CONSTRUCTION
CONTRACT # 11-811

c:\Dropbox\Dropbox (Groupe Gilbert)\arpentage meadowbank\2018\02-E - OFFICIAL DRAWING\11-811 - AMQ DIKES\CON-FD-048_FA.dwg



1

Alignment=WHALE TAIL
Station=0+771.801
Offset=-5.020
North=7254807.402
East=607722.217

3

Alignment=WHALE TAIL
Station=0+808.671
Offset=8.916
North=7254799.518
East=607760.836

2

Alignment=WHALE TAIL
Station=0+801.328
Offset=-5.898
North=7254812.973
East=607751.227

4

Alignment=WHALE TAIL
Station=0+772.732
Offset=8.666
North=7254794.039
East=607725.317

Notes:

- Indicate a point hidden behind backfill on the photo
- Indicate a point directly on the foundation floor
- * All the excess water have been pumped prior to backfilling with fine filter



PROJECT : WFO Construction
PROJECT #: 658309
DOCUMENT #: 20180820-DS-01
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: August 20, 2018
TIME: 15:45
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☒ Foundation approval (key trench)
- ☐ Fill placement: _____
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station: <u>0+555 to 0+575</u>	Station: <u>0+515 to 0+555</u>	
Inclination: _____	Details: _____	
ELEVATION : <input type="checkbox"/> varies _____ m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	<input checked="" type="checkbox"/>				
2. Free of ice/snow/ water	<input checked="" type="checkbox"/>				
3. Cleaning of trench and/or pile bottom	<input checked="" type="checkbox"/>				
4. Gradation (visual)					
5. Placement (lift thickness, segregation, etc.)					<input checked="" type="checkbox"/>
6. Compaction					<input checked="" type="checkbox"/>
7. Foundation on bedrock					<input checked="" type="checkbox"/>
8. Key-in depth into bedrock					<input checked="" type="checkbox"/>
9. Water quality					<input checked="" type="checkbox"/>
10. CB slurry viscosity and density					<input checked="" type="checkbox"/>
11. Elevation of CB Piles					<input checked="" type="checkbox"/>
12. Primary piles strength (Minimum of 50 kPa UCS)					<input checked="" type="checkbox"/>
13. Keying between primary and secondary					<input checked="" type="checkbox"/>
14. Cracks on top of cutoff wall					<input checked="" type="checkbox"/>

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N
Clear bedrock, free from <u>ice</u> and <u>mud</u> .	✓		✓	
Seems to be a low fractured area.				
Verify with an excavator at different stations.				
This section has been verify with a				
special attention because it was into				
a permafrost area.				
See the double check of the bedrock				
level on the contractor drawing.				

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

CONSTR. REP.

NAME

Pezera Azmarch

Maxime Côté

Pier-Éric Tremblay

AUDREY BILODEAU

SIGNATURE

[Signature]

[Signature]

[Signature]

DATE

Aug 20, 2018

2018-08-20

2018-08-20

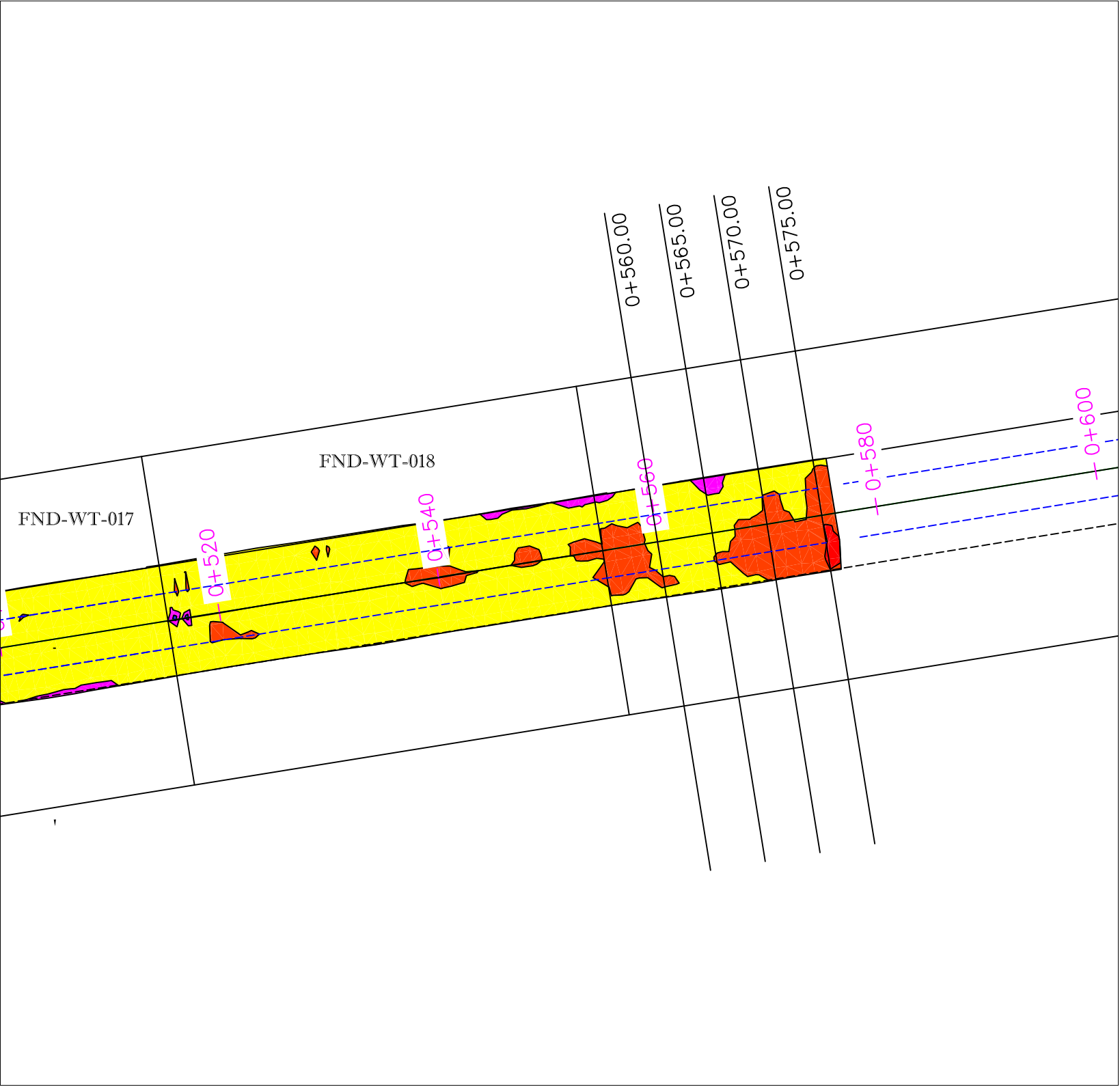
20/08/2018

FND-WT-019

FOUNDATION APPROVAL - WHALE TAIL

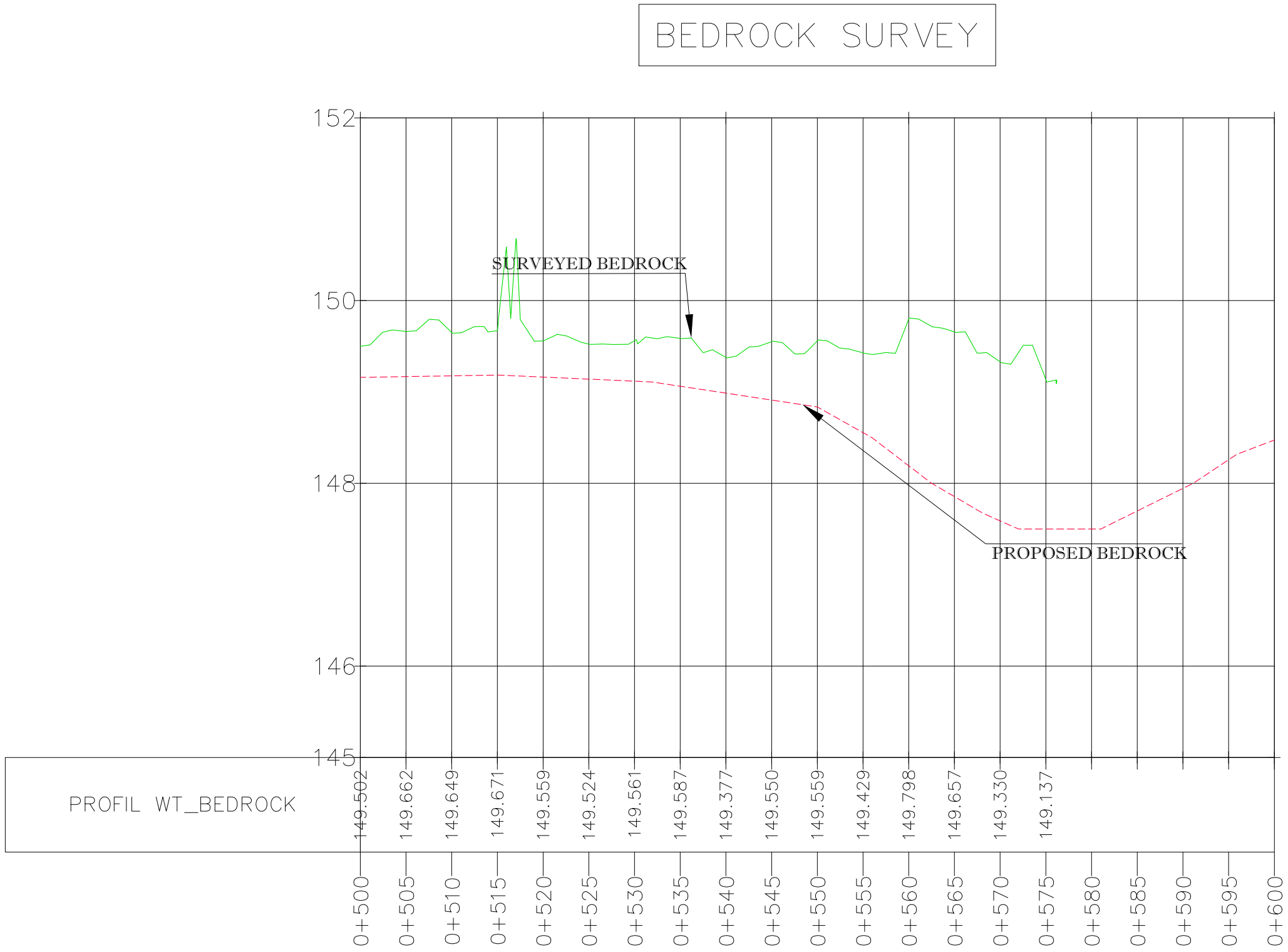
CONTRACT # 11-811

Elevations Table				
Number	Minimum Elevation	Maximum Elevation	Area	Color
1	143.00	143.50	0.00	■
2	143.50	144.00	13.07	■
3	144.00	144.50	33.80	■
4	144.50	145.00	32.96	■
5	145.00	145.50	23.02	■
6	145.50	146.00	17.15	■
7	146.00	146.50	32.42	■
8	146.50	147.00	59.31	■
9	147.00	147.50	79.02	■
10	147.50	148.00	111.96	■
11	148.00	148.50	81.81	■
12	148.50	149.00	60.86	■
13	149.00	149.50	64.91	■
14	149.50	150.00	211.36	■
15	150.00	150.50	237.84	■
16	150.50	151.00	525.94	■
17	151.00	151.50	471.13	■
18	151.50	152.00	546.99	■
19	152.00	152.50	231.75	■
20	152.50	153.00	6.75	■



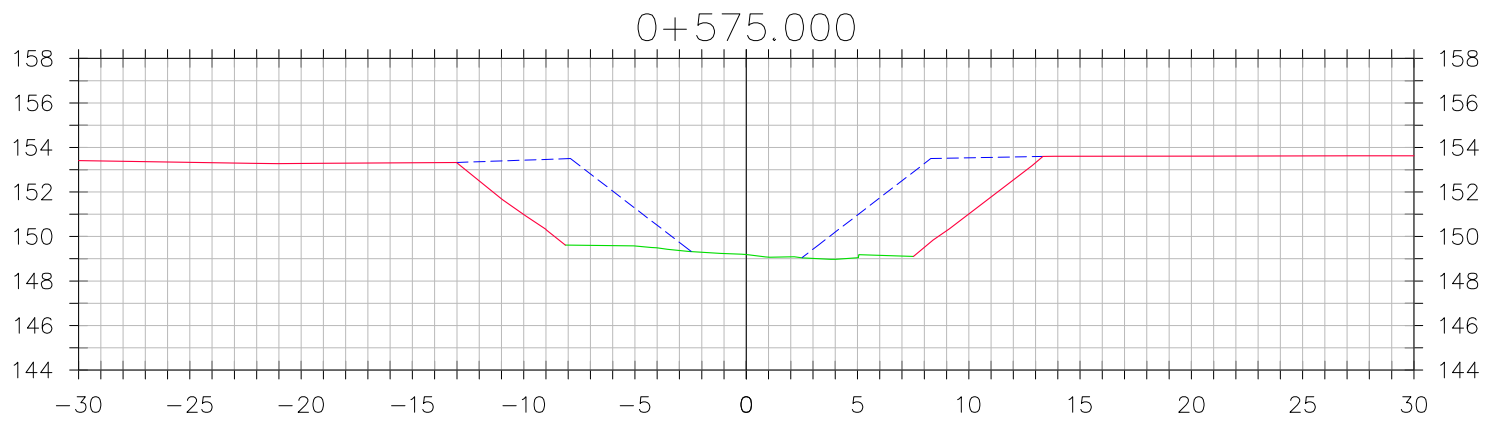
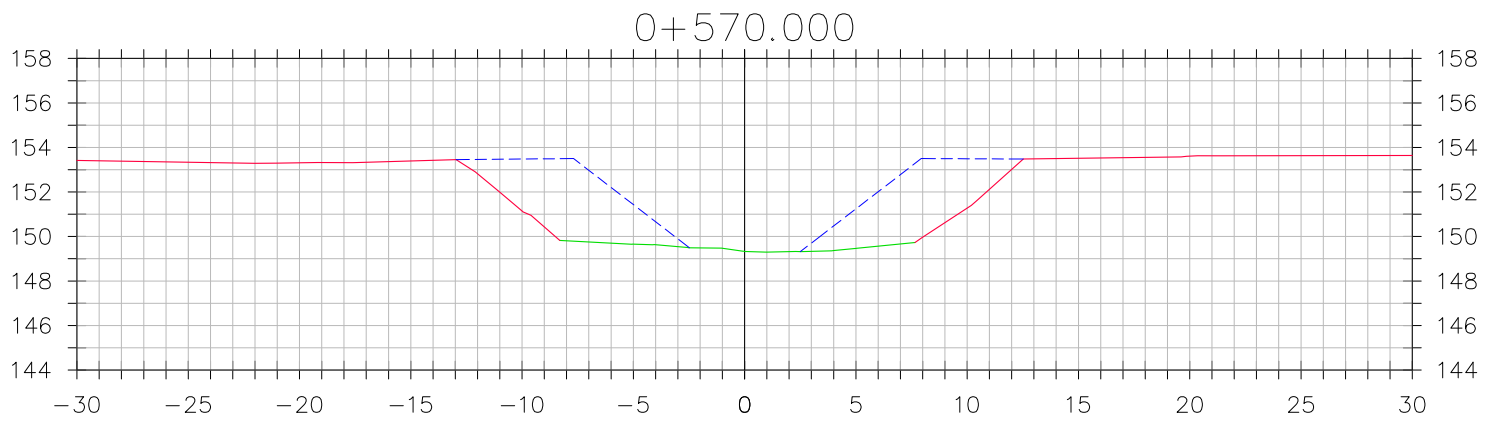
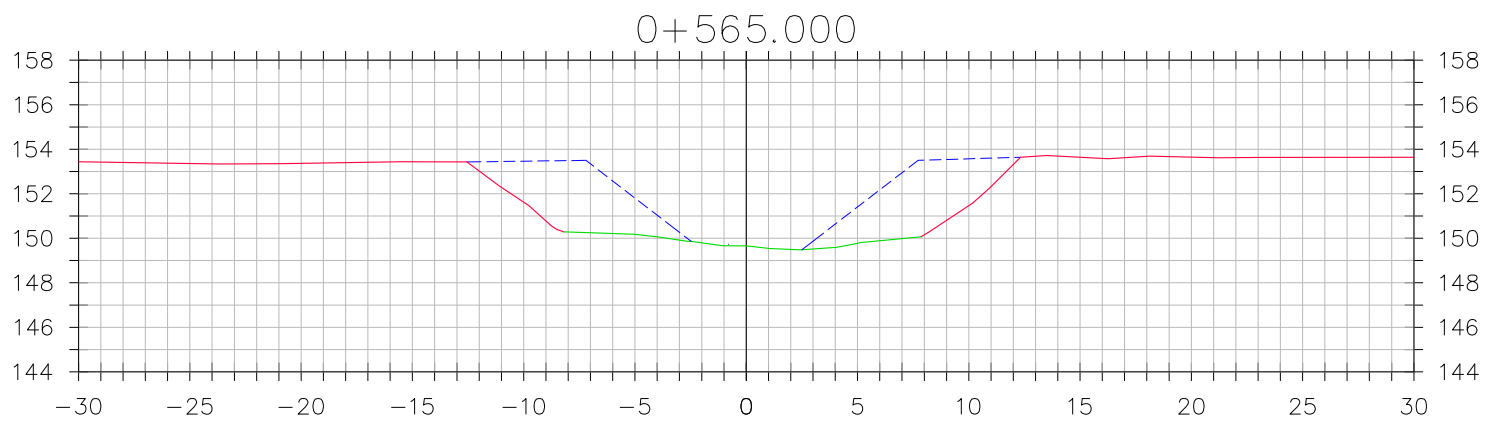
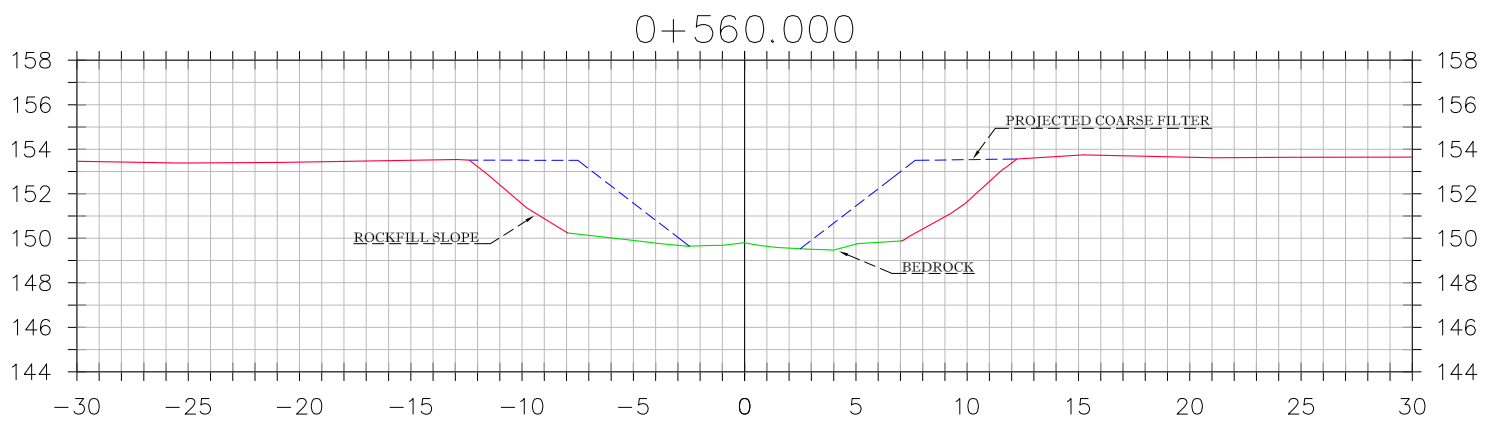
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FND-WT-019
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811



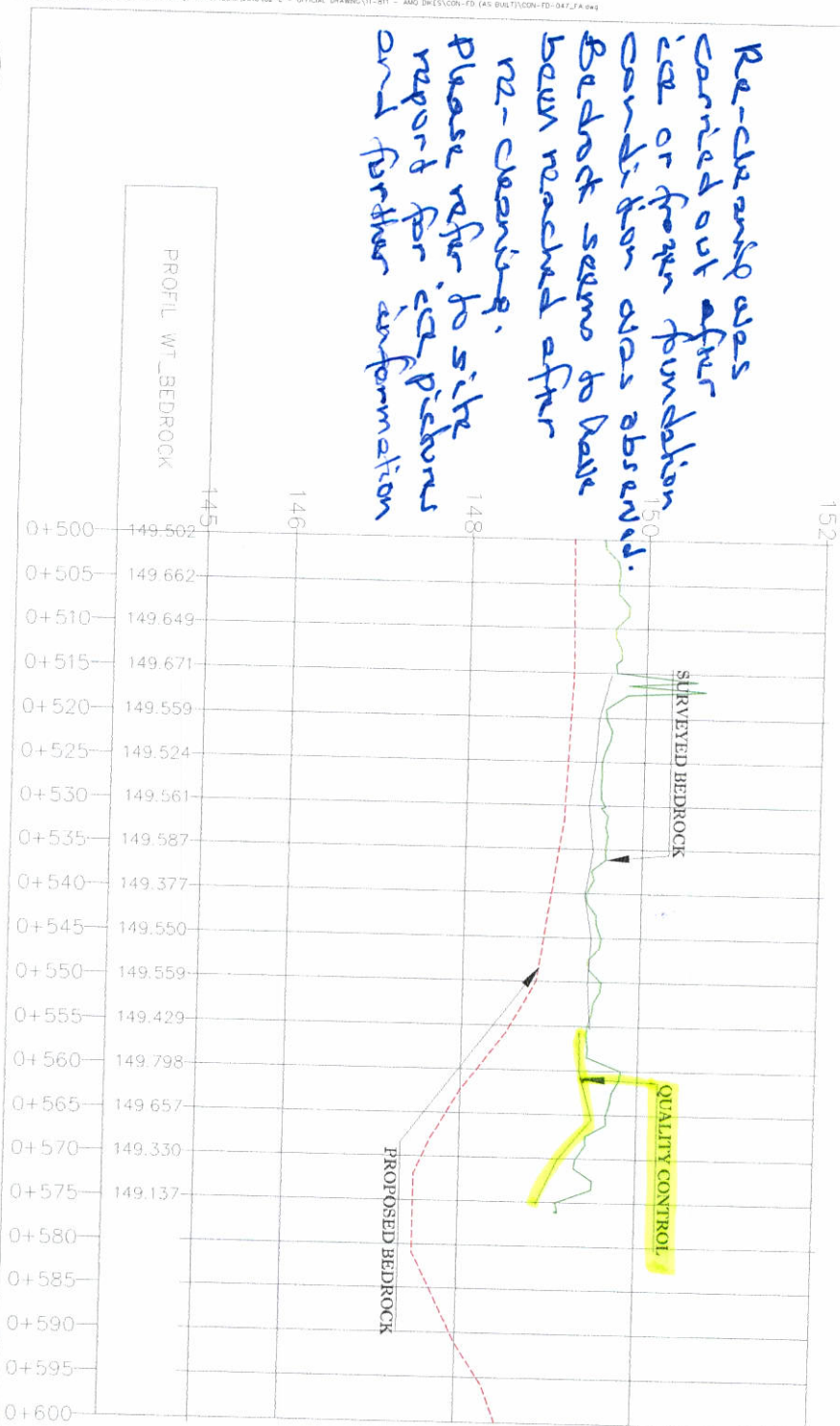
FND-WT-019
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811

C:\Dropbox\Dropbox (Groupe Gilbert)\orpenage meadowbank\2018\02-E - OFFICIAL DRAWING\11-811 - AMO DIKES\CON-FD (AS BUILT)\CON-FD-047_FA.dwg



FND-WT-019
 FOUNDATION APPROVAL - WHALE TAIL
 CONTRACT # 11-811

BEDROCK SURVEY



Survey done after
 the re-cleanup asked
 by QA/QC.

[Signature]

2018-08-20



KIVALIK CONTRACTORS
 GROUP LTD

PROJECT : WTO Construction
PROJECT #: 658309
DOCUMENT #: 20180820-DS-04
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: Aug. 20, 2018
TIME: 18:00
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☒ Foundation approval (key trench)
- ☐ Fill placement: _____
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station <u>0+575 to 0+595</u>	Station: <u>0+555 to 0+575</u>
Inclination: _____	Details: _____
ELEVATION : <input checked="" type="checkbox"/> varies _____ m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
2. Free of ice/snow/water	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
3. Cleaning of trench and/or pile bottom	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
4. Gradation (visual)	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
5. Placement (lift thickness, segregation, etc.)					<input checked="" type="checkbox"/>
6. Compaction					<input checked="" type="checkbox"/>
7. Foundation on bedrock					<input checked="" type="checkbox"/>
8. Key-in depth into bedrock					<input checked="" type="checkbox"/>
9. Water quality					<input checked="" type="checkbox"/>
10. CB slurry viscosity and density					<input checked="" type="checkbox"/>
11. Elevation of CB Piles					<input checked="" type="checkbox"/>
12. Primary piles strength (Minimum of 50 kPa UCS)					<input checked="" type="checkbox"/>
13. Keying between primary and secondary					<input checked="" type="checkbox"/>
14. Cracks on top of cutoff wall					<input checked="" type="checkbox"/>

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N
Clear bedrock, free of ice and mud.	✓		✓	
Spots check done with an excavator at different stations. Don't seem to be much fractured				
A special care has been taken because this section was into a permafrost area.				
See the contractor drawings to see the QC survey.				

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

Contractor's "

NAME

Tezera Azmatel

Maxime Gato

Pin-Empfand

SERGE Lalancette

SIGNATURE

[Signature]

[Signature]

[Signature]

[Signature]

DATE

Aug. 20, 2018

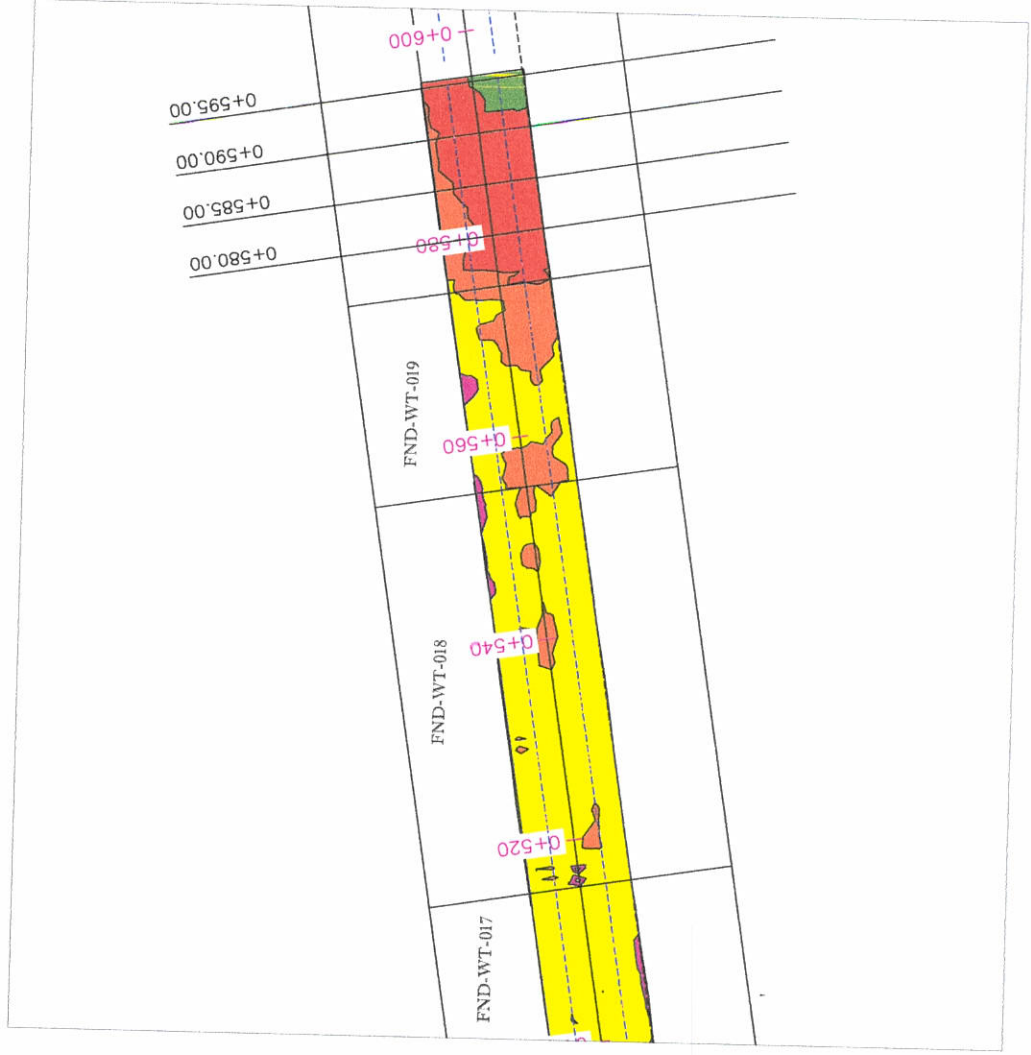
2018-08-20

2018-08-20

2018-08-20

FND-WT-021 FOUNDATION APPROVAL - WHALE TAIL CONTRACT # 11-811

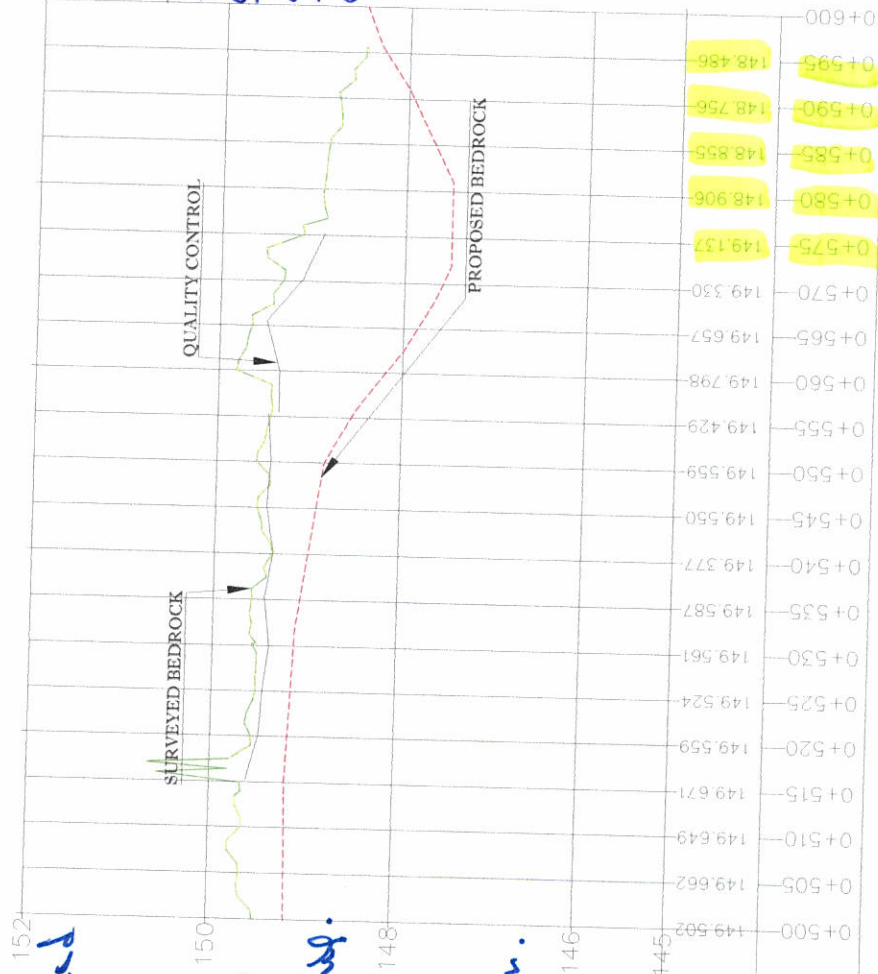
Elevations Table				
Number	Minimum Elevation	Maximum Elevation	Area	Color
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2	143.50	144.00	13.07	
3	144.00	144.50	33.80	
4	144.50	145.00	32.96	
5	145.00	145.50	23.02	
6	145.50	146.00	17.15	
7	146.00	146.50	32.42	
8	146.50	147.00	59.31	
9	147.00	147.50	79.02	
10	147.50	148.00	111.96	
11	148.00	148.50	81.81	
12	148.50	149.00	60.86	
13	149.00	149.50	64.91	
14	149.50	150.00	211.36	
15	150.00	150.50	237.84	
16	150.50	151.00	525.94	
17	151.00	151.50	471.13	
18	151.50	152.00	546.99	
19	152.00	152.50	231.75	
20	152.50	153.00	6.75	



FND-WT-021
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811

BEDROCK SURVEY

Re-cleaned area carried out after ice or frozen foundation condition was observed. Bedrock seems to have been reached after re-cleaning. Please refer to site report for the same date for ice pictures and further information.



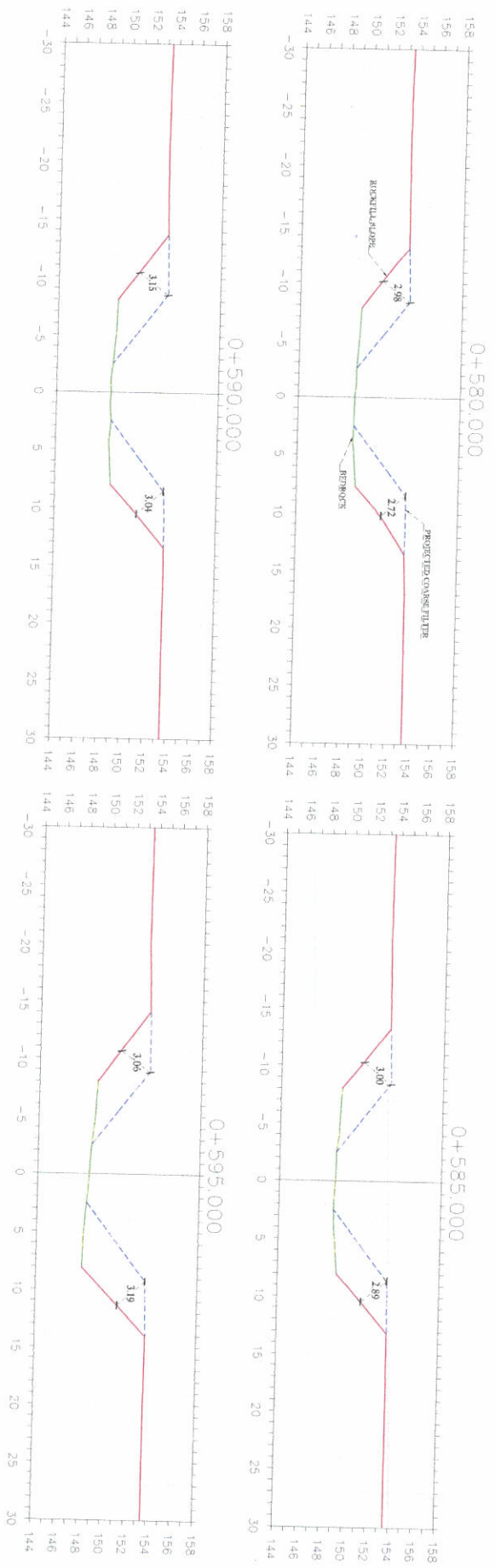
QC Survey (Boat)

Stations	O/S	Bedrock elev.
0+580.80	✓	149.12m
0+585.80	✓	149.03m
0+589.80	✓	149.84m
0+595.20	✓	148.73m

[Signature]
2018-08-20

PROFIL WT_BEDROCK

FND-WT-021 FOUNDATION APPROVAL - WHALE TAIL CONTRACT # 11-811



PREPARED BY: MARC-ANDRÉ BLACKBURN
 DATE: 20-08-2018
 CON-FD-050.FA

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-22
DOCUMENT #: 20180822-NS-01 TIME: 4:15
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☒ Foundation approval (footprint)
☐ Foundation approval (key trench)
☐ Fill placement: _____
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+727 to 0+739</u>	Station:	<u>0+790 to 0+808</u>
Inclination:		Details:	<u>0+739 to 0+808</u>
ELEVATION	<input type="checkbox"/> varies <u>≈ 150.2</u> m	<u>ALREADY APPROVED</u>	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

COMPLIANCE WITH TECHNICAL SPECIFICATIONS: (Add additional items if needed)	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom <i>foundation floor</i>	✓		✓		
4. Gradation (visual)					✓
5. Placement (lift thickness, segregation, etc.)					✓
6. Compaction					✓
7. Foundation on bedrock	✓		✓		
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed	✓		✓		
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
2	FOUNDATION FREE OF ICE-RICH MATERIAL/EXCESS WATER	✓		✓	
7	FOUNDATION SITS ON FRACTURED BEDROCK	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU JÉZÉQUEL

Denis J. Gaudin

Patrice Gagnon

Jonathan H.C.

SIGNATURE

(Handwritten signatures)

DATE

2018-08-22

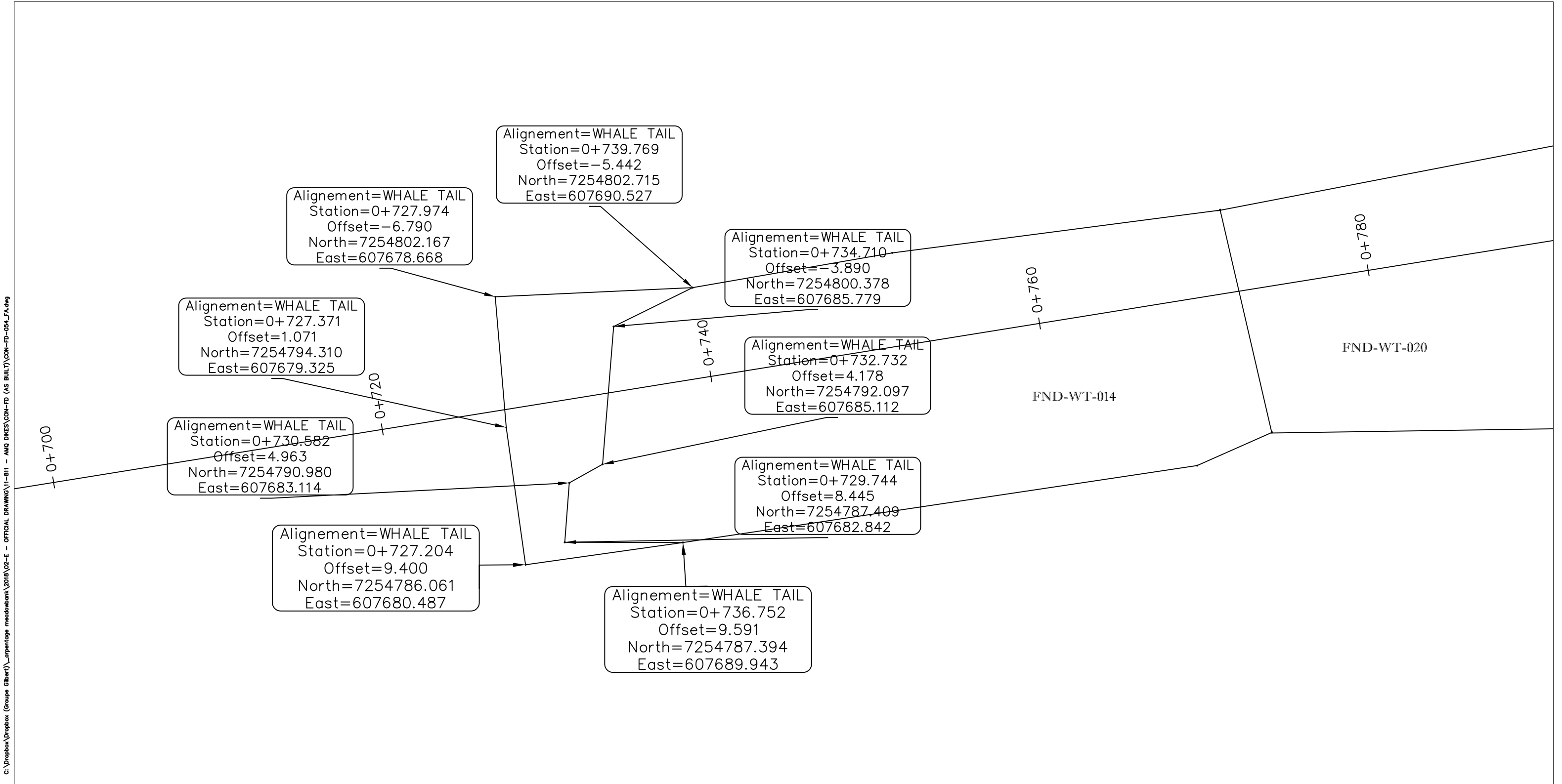
2018-08-22

2018-08-22

2018-08-22

FND-WT-024
WHALE TAIL DIKE CONSTRUCTION
CONTRACT # 11-811

c:\Dropbox\Dropbox (Groupe Gilbert)\arpenage meadowbank\2018\02-E - OFFICIAL DRAWING\11-811 - AMQ DIKES\CON-FD-054-FA.dwg



1

Alignment=WHALE TAIL
Station=0+727.204
Offset=9.400
North=7254786.061
East=607680.487

2

Alignment=WHALE TAIL
Station=0+739.769
Offset=-5.442
North=7254802.715
East=607690.527

3

Alignment=WHALE TAIL
Station=0+736.752
Offset=9.591
North=7254787.394
East=607689.943

4

Alignment=WHALE TAIL
Station=0+727.204
Offset=9.400
North=7254786.061
East=607680.487

Notes:



Indicate a point hidden behind backfill on the photo



Indicate a point directly on the foundation floor



All the excess water have been pumped prior to backfilling with fine filter



PROJECT : WSD Construction

PROJECT #: 658309

DOCUMENT #: 20180822-DS-01

(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: August 22, 2018

TIME: 16:20
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
☒ Foundation approval (key trench)
☐ Fill placement: _____
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+595 to 0+615</u>	Station:	<u>0+575 to 0+595</u>
Inclination:		Details:	
ELEVATION	: <input checked="" type="checkbox"/> varies _____ m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
2. Free of ice/snow/ <u>water</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
3. Cleaning of trench <u>and/or pile bottom</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
4. Gradation (visual)	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
5. Placement (lift thickness, segregation, etc.)					<input checked="" type="checkbox"/>
6. Compaction					<input checked="" type="checkbox"/>
7. Foundation on bedrock					<input checked="" type="checkbox"/>
8. Key-in depth into bedrock					<input checked="" type="checkbox"/>
9. Water quality					<input checked="" type="checkbox"/>
10. CB slurry viscosity and density					<input checked="" type="checkbox"/>
11. Elevation of CB Piles					<input checked="" type="checkbox"/>
12. Primary piles strength (Minimum of 50 kPa UCS)					<input checked="" type="checkbox"/>
13. Keying between primary and secondary					<input checked="" type="checkbox"/>
14. Cracks on top of cutoff wall					<input checked="" type="checkbox"/>

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
16. As built survey completed					<input checked="" type="checkbox"/>
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
	Clean bedrock, free of ice and mud.	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
	It seems to be fractured rock.				
	Field spot check has been done with an excavator at different stations.				
	See the QC double check on the contractor drawing.				

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

Contractor's Rep.

NAME

SIGNATURE

DATE

Tesera Azmarch
 Maxime Gite
 Patrice Gagnon
 Jonathan Audet-Croft

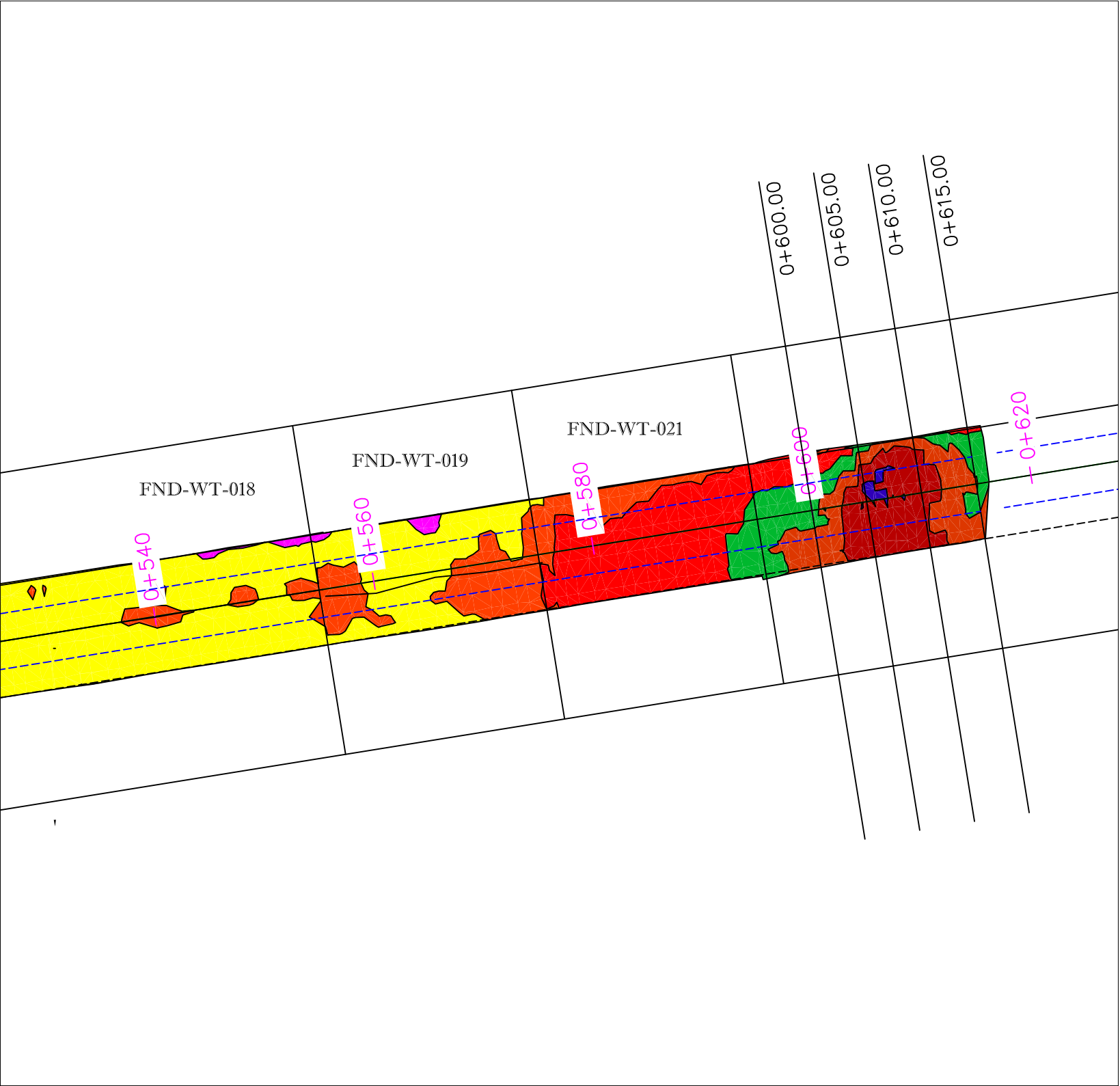
Aug. 22, 2018
 2018-08-22
 2018-09-22
 2018-08-22

FND-WT-022

FOUNDATION APPROVAL - WHALE TAIL

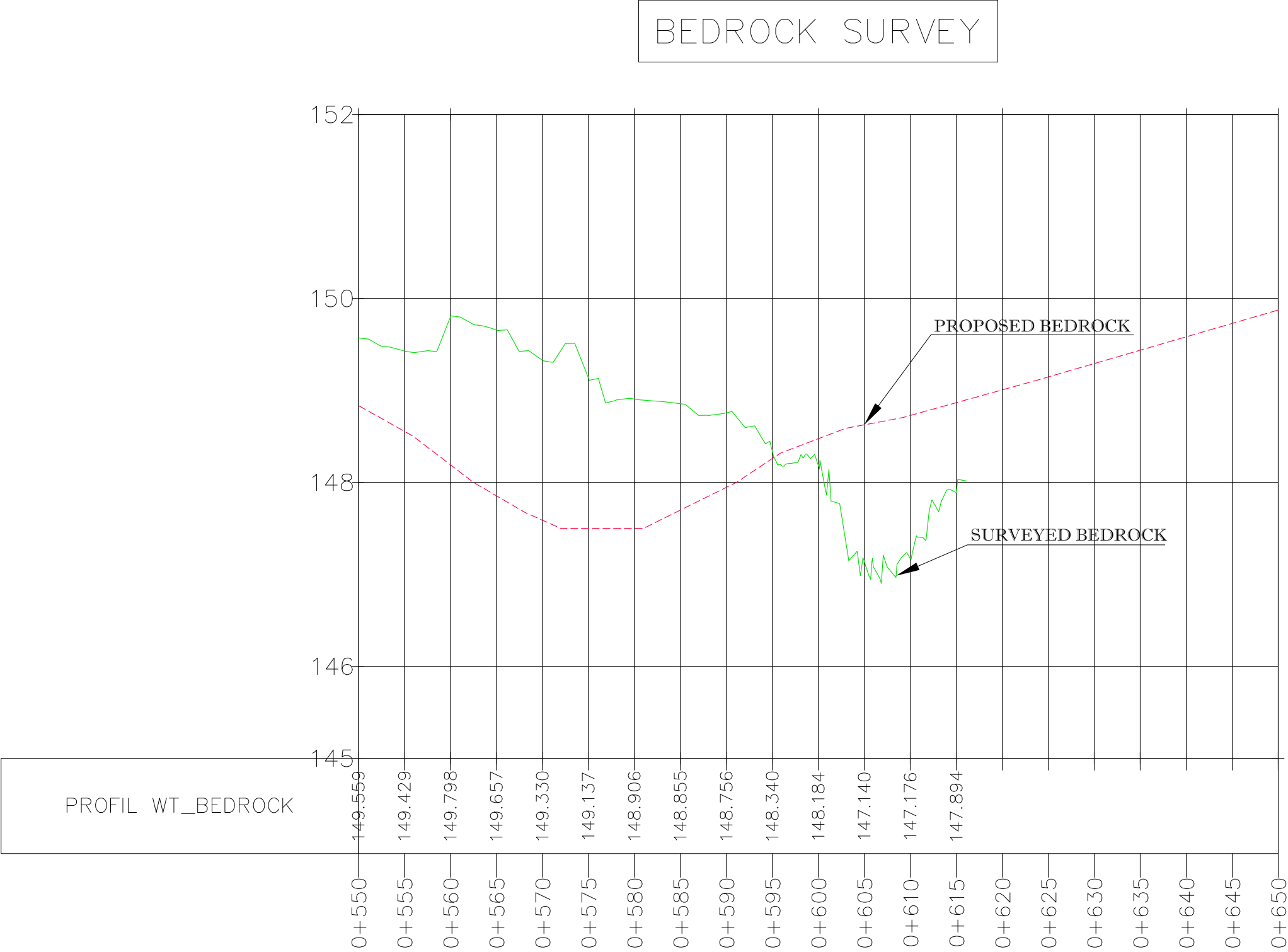
CONTRACT # 11-811

Elevations Table				
Number	Minimum Elevation	Maximum Elevation	Area	Color
1	143.00	143.50	0.00	■
2	143.50	144.00	13.07	■
3	144.00	144.50	33.80	■
4	144.50	145.00	32.96	■
5	145.00	145.50	23.02	■
6	145.50	146.00	17.15	■
7	146.00	146.50	32.42	■
8	146.50	147.00	59.31	■
9	147.00	147.50	79.02	■
10	147.50	148.00	111.96	■
11	148.00	148.50	81.81	■
12	148.50	149.00	60.86	■
13	149.00	149.50	64.91	■
14	149.50	150.00	211.36	■
15	150.00	150.50	237.84	■
16	150.50	151.00	525.94	■
17	151.00	151.50	471.13	■
18	151.50	152.00	546.99	■
19	152.00	152.50	231.75	■
20	152.50	153.00	6.75	■



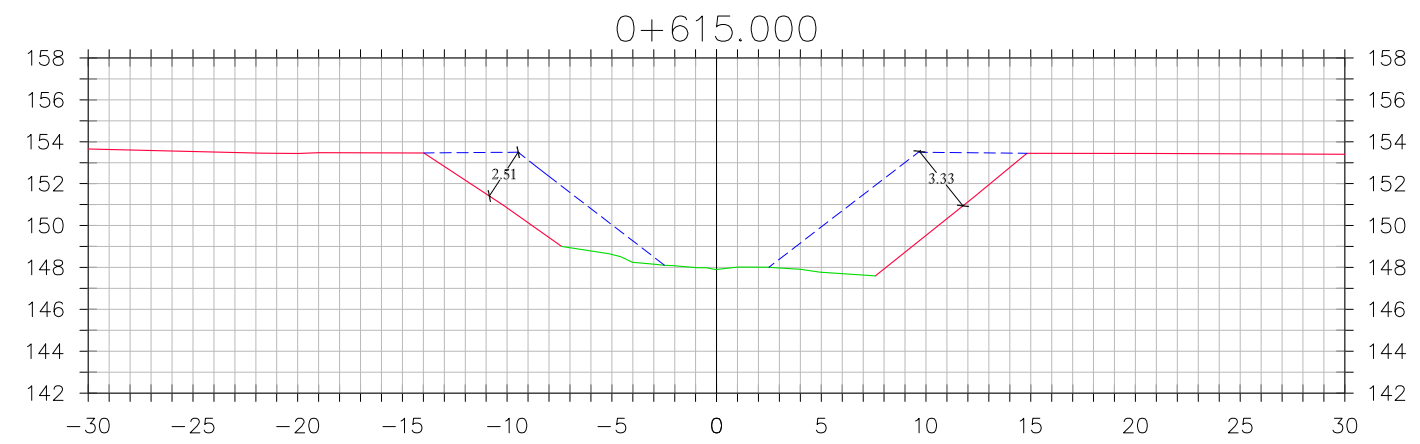
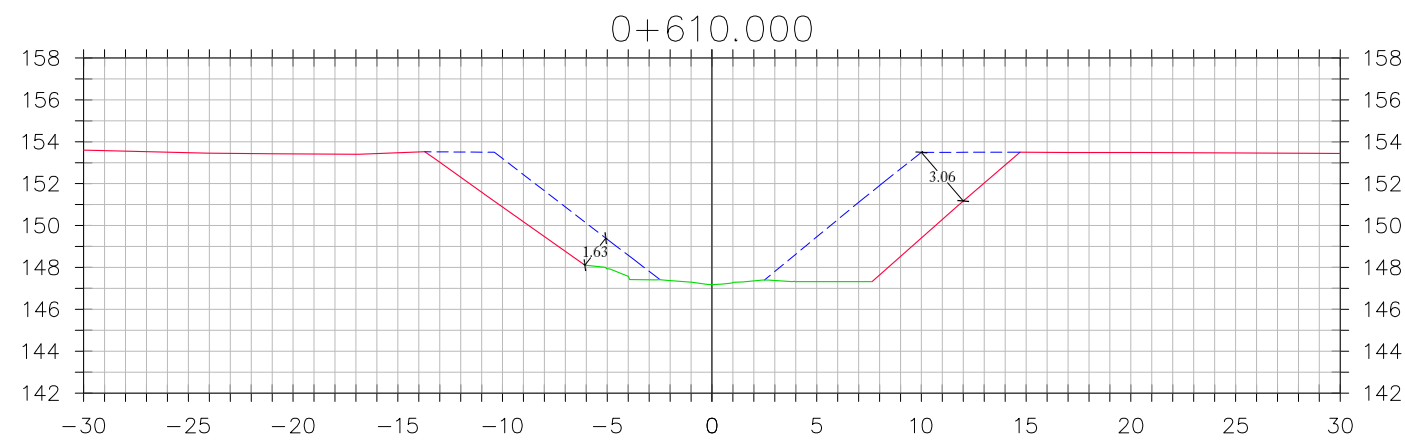
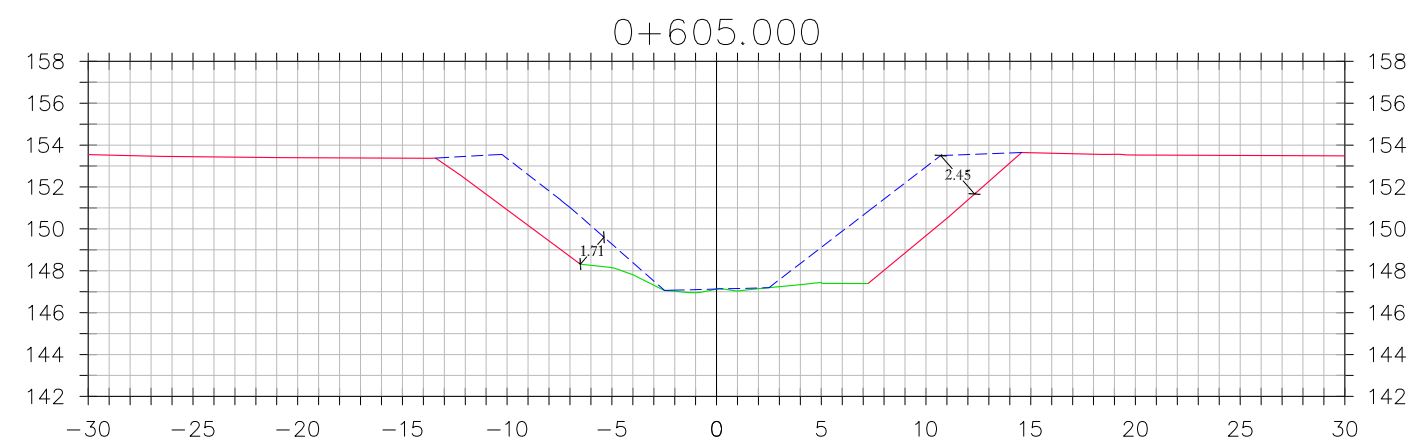
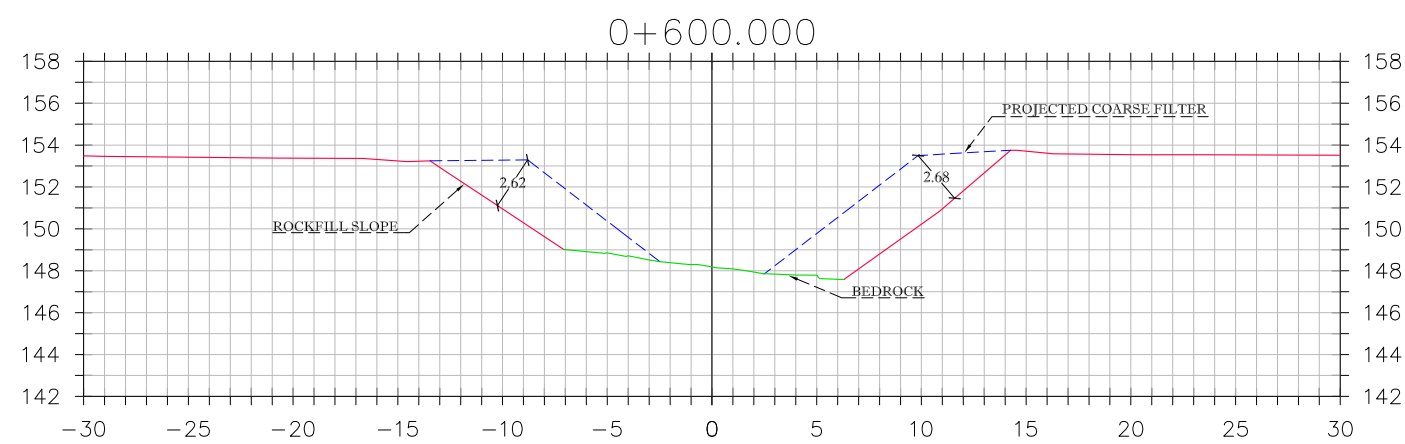
C:\Dropbox\Dropbox (Groupe Gilbert)_percentage meadowbank\2018\02-E - OFFICIAL DRAWING\11-811 - AMO DIKES\CON-FD (AS BUILT)\CON-FD-052_FA.dwg

FND-WT-022
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811

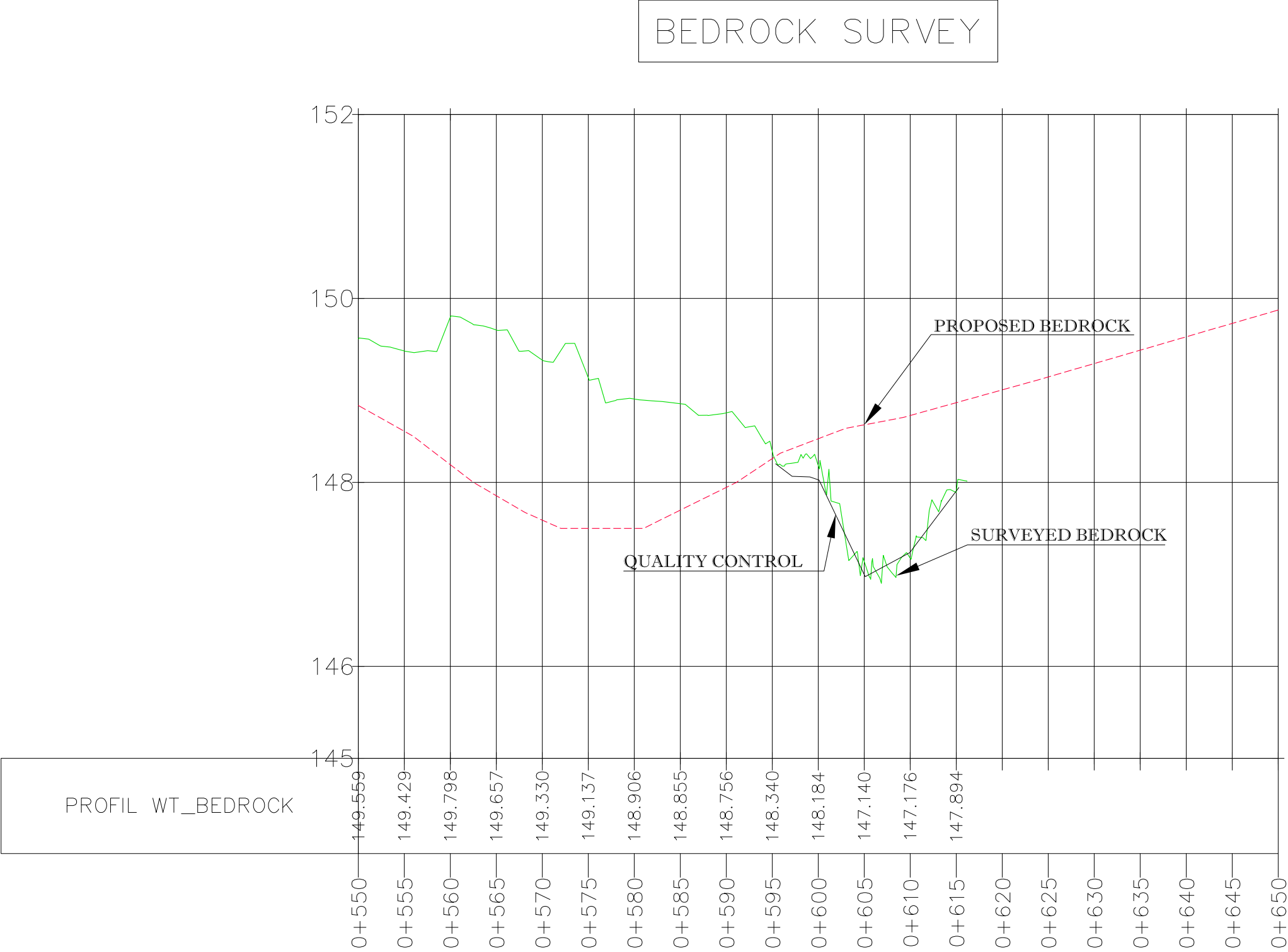


c:\Dropbox\Dropbox (Groupe Gilbert)\arptage meadowbank\2018\02-E - OFFICIAL DRAWING\11-811 - AMQ DIKES\CON-FD (AS BUILT)\CON-FD-052_FA.dwg

FND-WT-022
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811



FND-WT-022
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811



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PROJECT : WTD construction
PROJECT #: 658309 DATE: Aug. 22, 2018
DOCUMENT #: 20180822-DS-08 TIME: 18:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☒ Foundation approval (key trench)
☐ Fill placement: _____
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+615 to 0+635</u>	Station:	<u>0+595 to 0+615</u>
Inclination:		Details:	
ELEVATION	<input checked="" type="checkbox"/> varies _____ m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/ water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)					✓
5. Placement (lift thickness, segregation, etc.)					✓
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
3	Clean bedrock, free of mud and ice. Seems to be fractured rock. A lot of field spot check has been done with an excavator at different stations and every thing was good. QC boat survey has been done and every thing match.	✓		✓	

APPROVED BY:

NAME

SIGNATURE

DATE

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

Contractor's Rep.

Tezera Azmaha
Maxime Cole
Patrice Gagnon
Jonathan Audet-Croft

[Signatures]

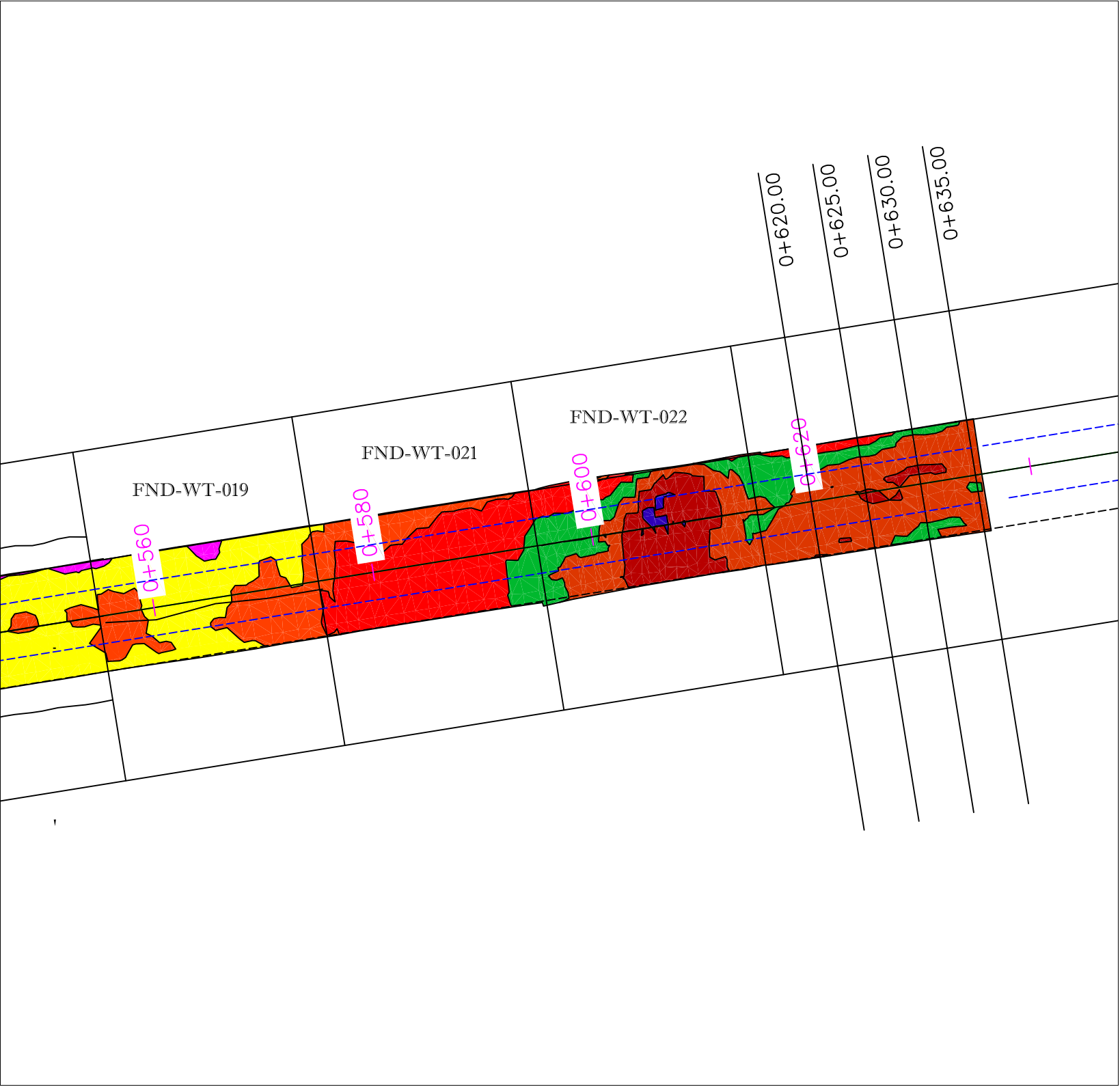
Aug. 22, 2018
2018-08-22
2018-08-22
2018-08-22

FND-WT-023

FOUNDATION APPROVAL - WHALE TAIL

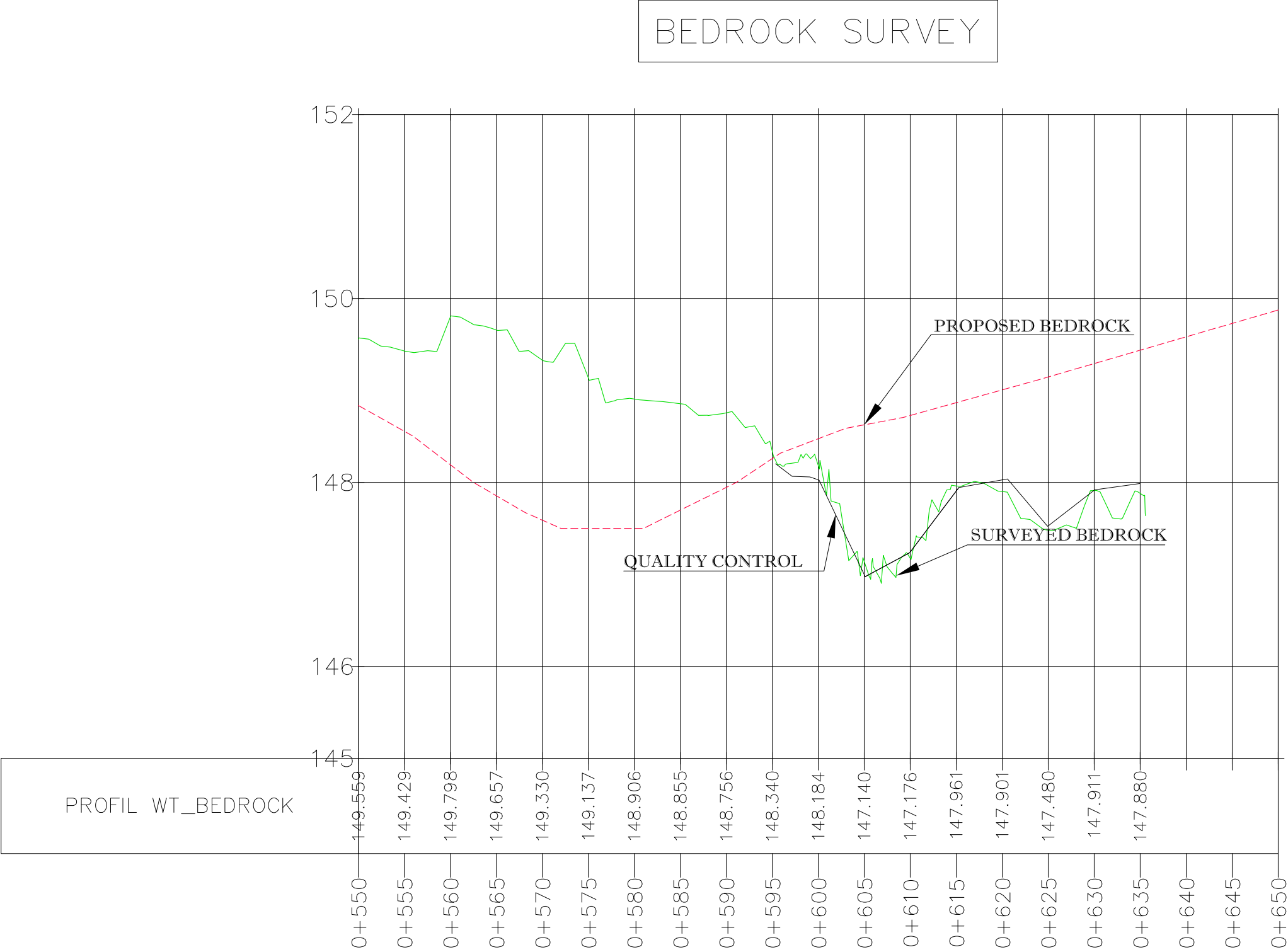
CONTRACT # 11-811

Elevations Table				
Number	Minimum Elevation	Maximum Elevation	Area	Color
1	143.00	143.50	0.00	■
2	143.50	144.00	13.07	■
3	144.00	144.50	33.80	■
4	144.50	145.00	32.96	■
5	145.00	145.50	23.02	■
6	145.50	146.00	17.15	■
7	146.00	146.50	32.42	■
8	146.50	147.00	59.31	■
9	147.00	147.50	79.02	■
10	147.50	148.00	111.96	■
11	148.00	148.50	81.81	■
12	148.50	149.00	60.86	■
13	149.00	149.50	64.91	■
14	149.50	150.00	211.36	■
15	150.00	150.50	237.84	■
16	150.50	151.00	525.94	■
17	151.00	151.50	471.13	■
18	151.50	152.00	546.99	■
19	152.00	152.50	231.75	■
20	152.50	153.00	6.75	■



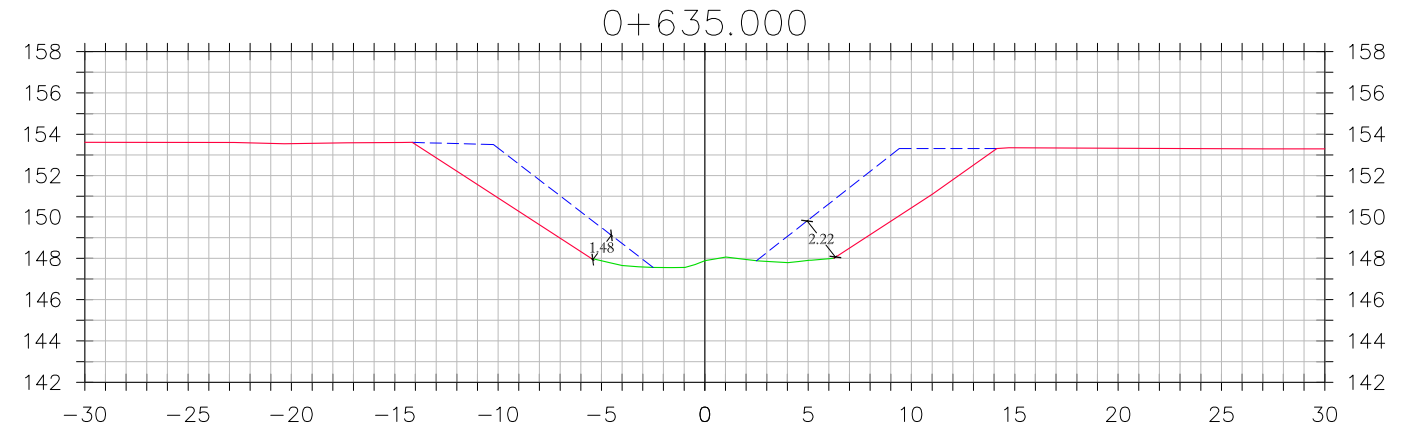
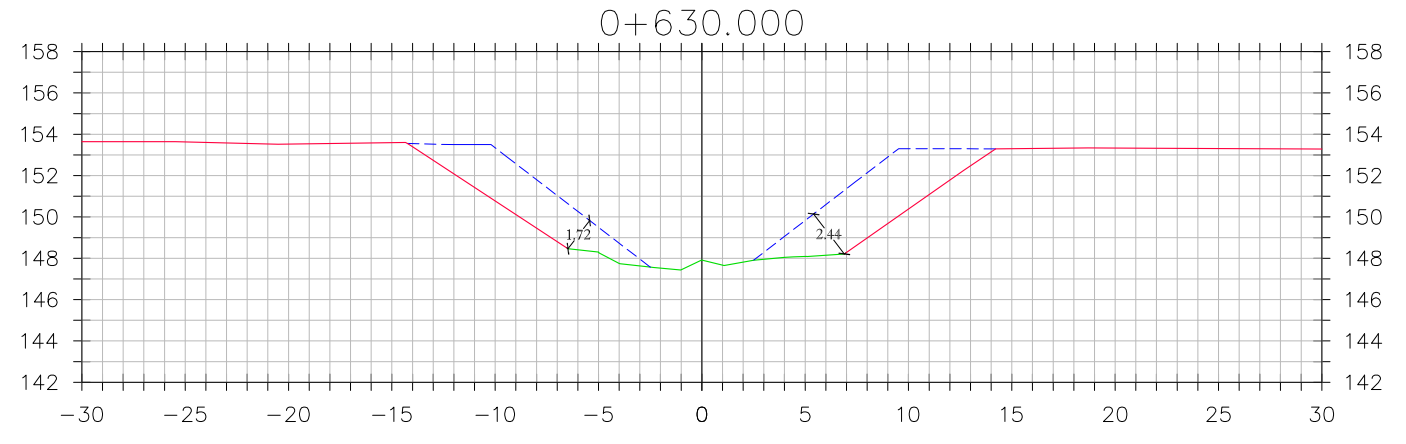
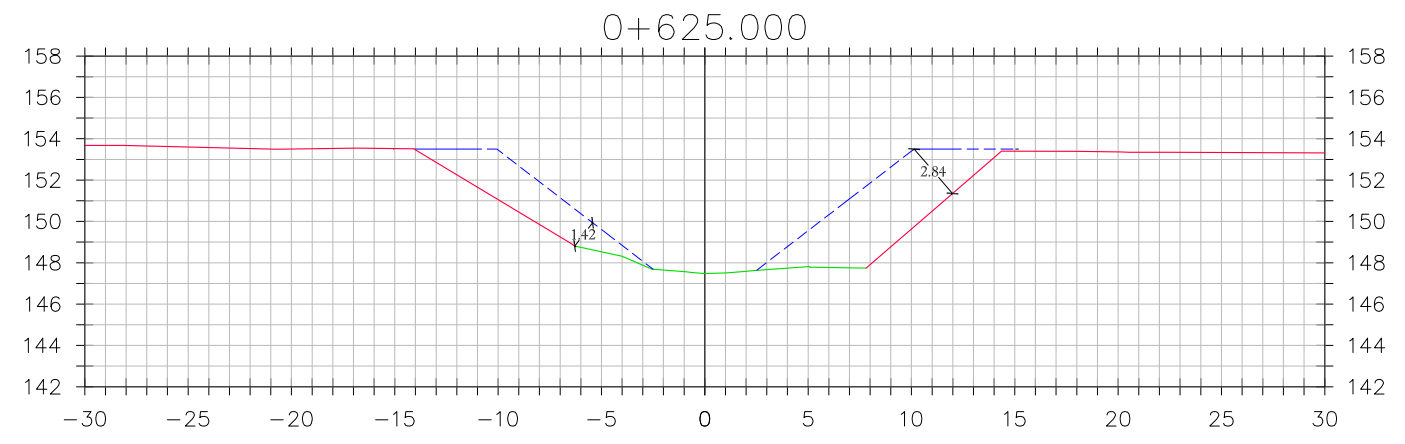
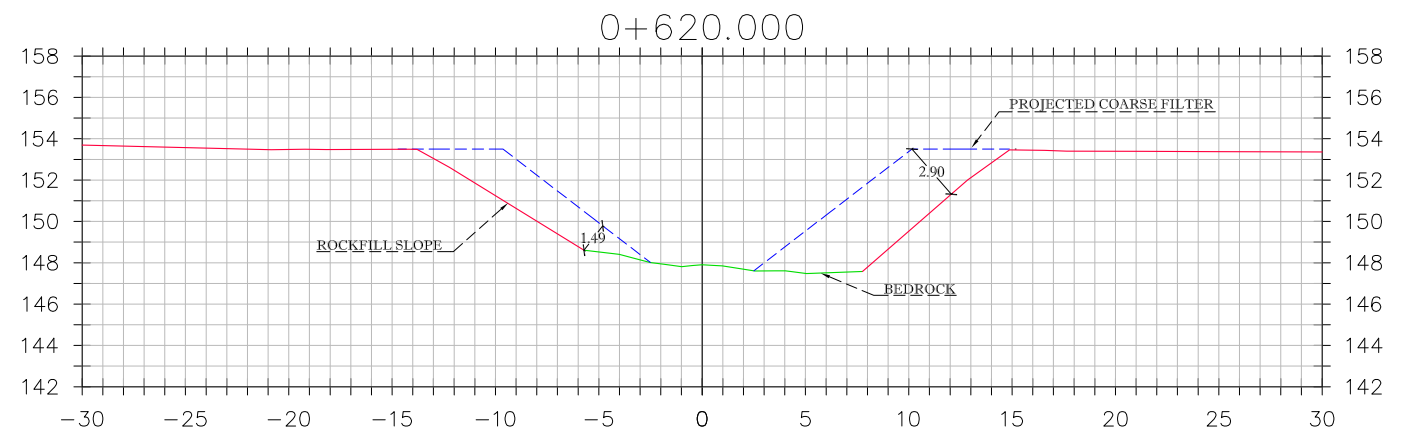
c:\Dropbox\Dropbox (Groupe Gilbert)_percentage meadowbank\2018\02-E - OFFICIAL DRAWING\11-811 - AMO DIKES\CON-FD (AS BUILT)\CON-FD-053_FA.dwg

FND-WT-023
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811



c:\Dropbox\Dropbox (Groupe Gilbert)\arptage meadowbank\2018\02-E - OFFICIAL DRAWING\11-811 - AMQ DIKES\CON-FD (AS BUILT)\CON-FD-053_FA.dwg

FND-WT-023
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811



PROJECT : WTD Construction

PROJECT #: 658309

DOCUMENT #: 20180823-DS-01

(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: August 23, 2018

TIME: 14:00
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☒ Foundation approval (key trench)
- ☐ Fill placement: _____
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+635 to 0+655</u>	Station:	<u>0+615 to 0+635</u>
Inclination:		Details:	
ELEVATION	<input checked="" type="checkbox"/> varies _____ m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u> (Add additional items if needed)	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/ water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)					✓
5. Placement (lift thickness, segregation, etc.)					✓
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
3	Clean bedrock, free of ice and mud. Seems to be fractured rock.	✓		✓	
	A lot of field spots check has been done with an excavator at different stations and it is all good.				
	QC Boat survey results matched with the bathymetry.				

APPROVED BY:

NAME

SIGNATURE

DATE

QA REPRESENTATIVE

Jezeva Azmat

[Signature]

Aug. 23, 2018

QC REPRESENTATIVE

Maxime Lote

[Signature]

2018-08-23

OWNER'S REPRESENTATIVE

Patric Gagnon

[Signature]

2018-08-23

Contractor's Rep.

Jonathan A. C.

[Signature]

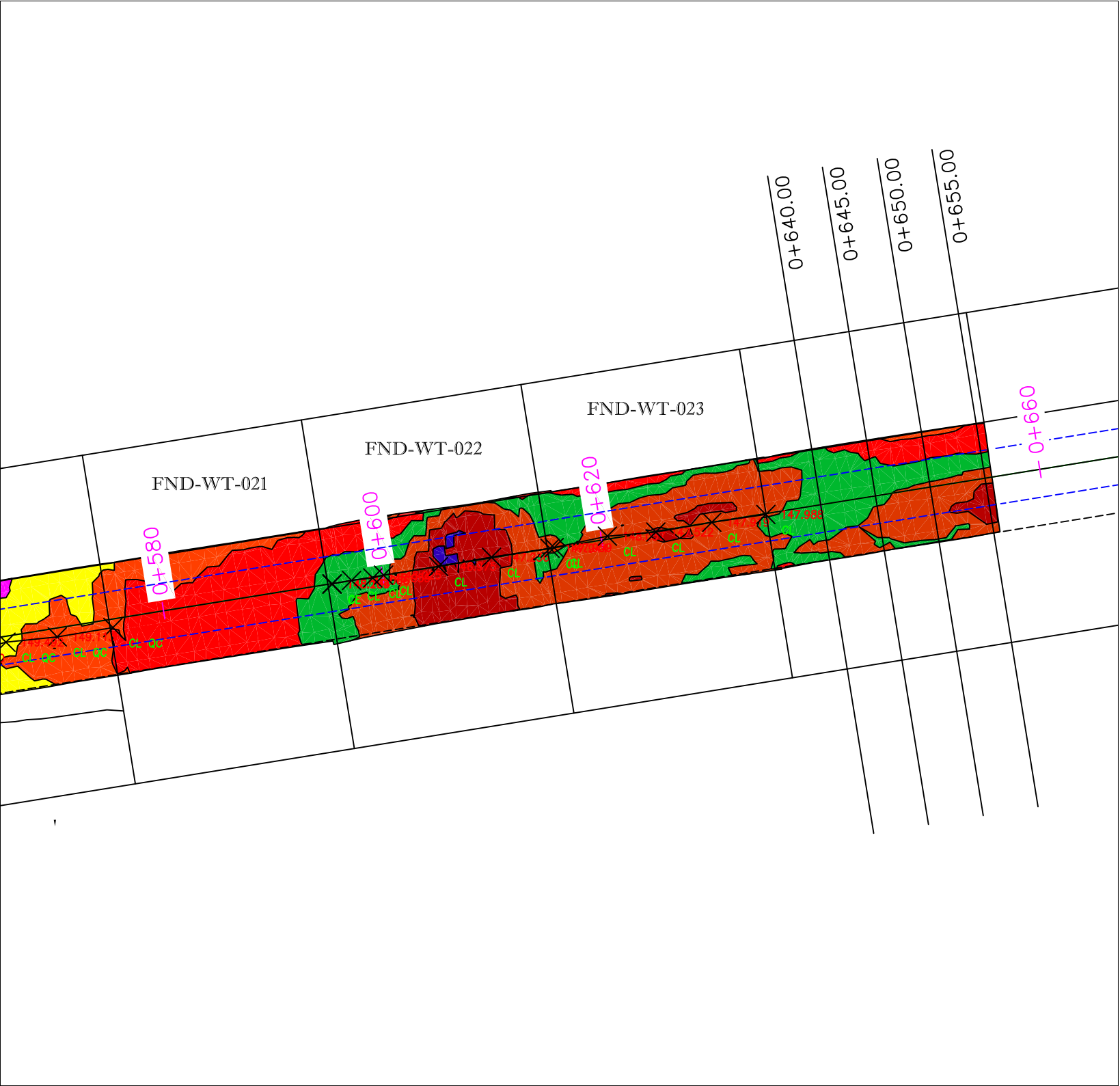
2018-08-23

FND-WT-025

FOUNDATION APPROVAL - WHALE TAIL

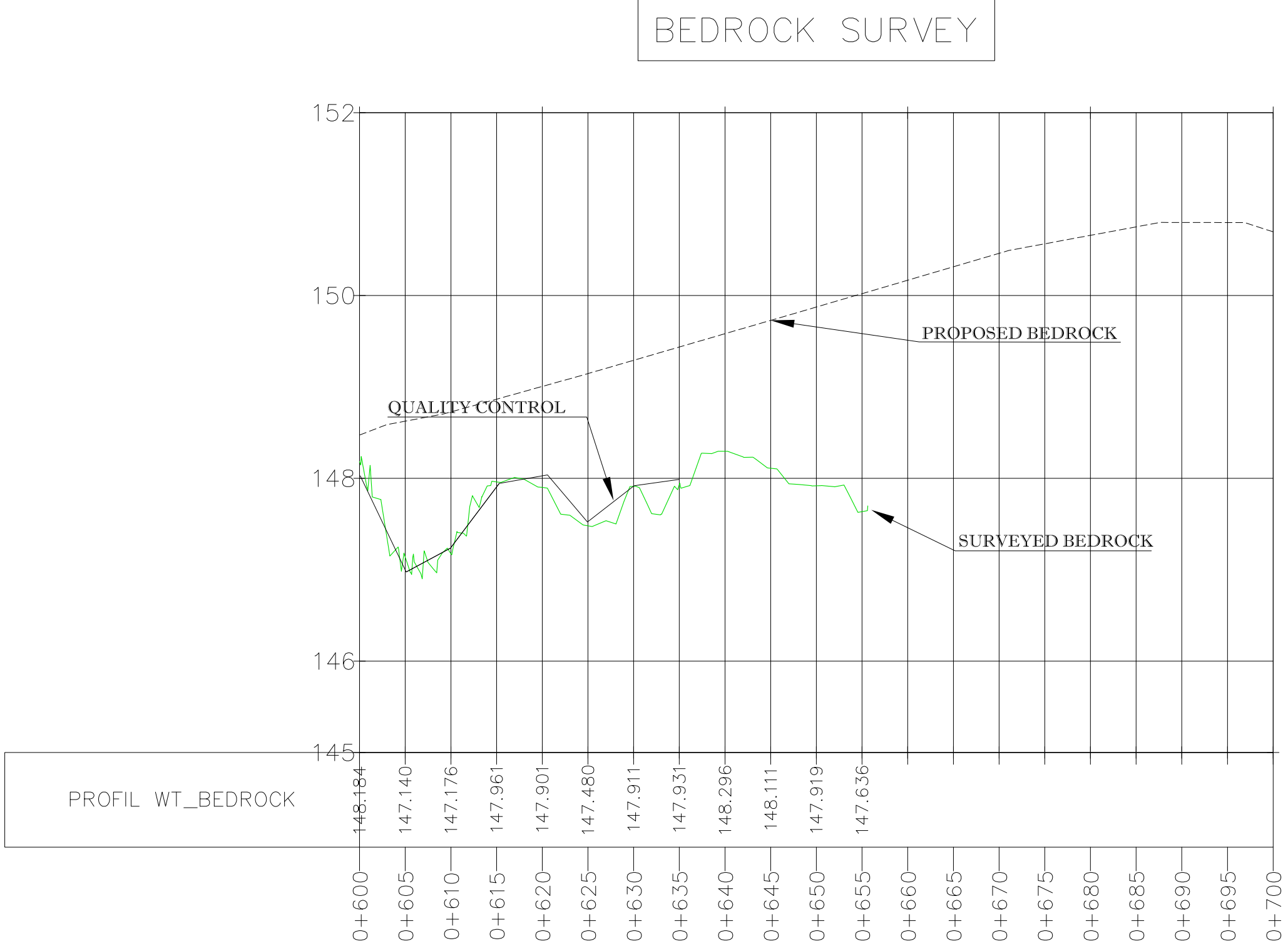
CONTRACT # 11-811

Elevations Table				
Number	Minimum Elevation	Maximum Elevation	Area	Color
1	143.00	143.50	0.00	■
2	143.50	144.00	13.07	■
3	144.00	144.50	33.80	■
4	144.50	145.00	32.96	■
5	145.00	145.50	23.02	■
6	145.50	146.00	17.15	■
7	146.00	146.50	32.42	■
8	146.50	147.00	59.31	■
9	147.00	147.50	79.02	■
10	147.50	148.00	111.96	■
11	148.00	148.50	81.81	■
12	148.50	149.00	60.86	■
13	149.00	149.50	64.91	■
14	149.50	150.00	211.36	■
15	150.00	150.50	237.84	■
16	150.50	151.00	525.94	■
17	151.00	151.50	471.13	■
18	151.50	152.00	546.99	■
19	152.00	152.50	231.75	■
20	152.50	153.00	6.75	■



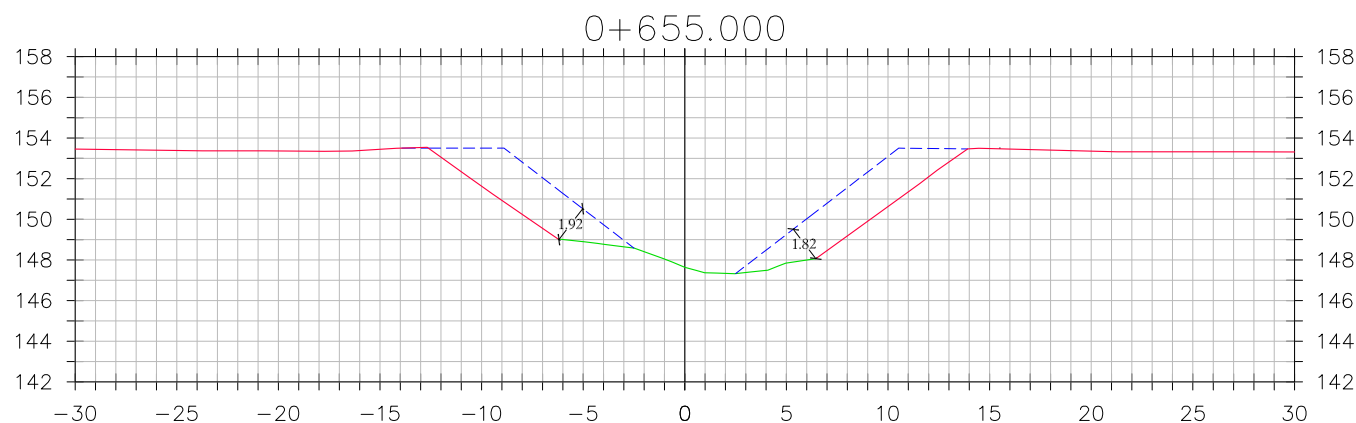
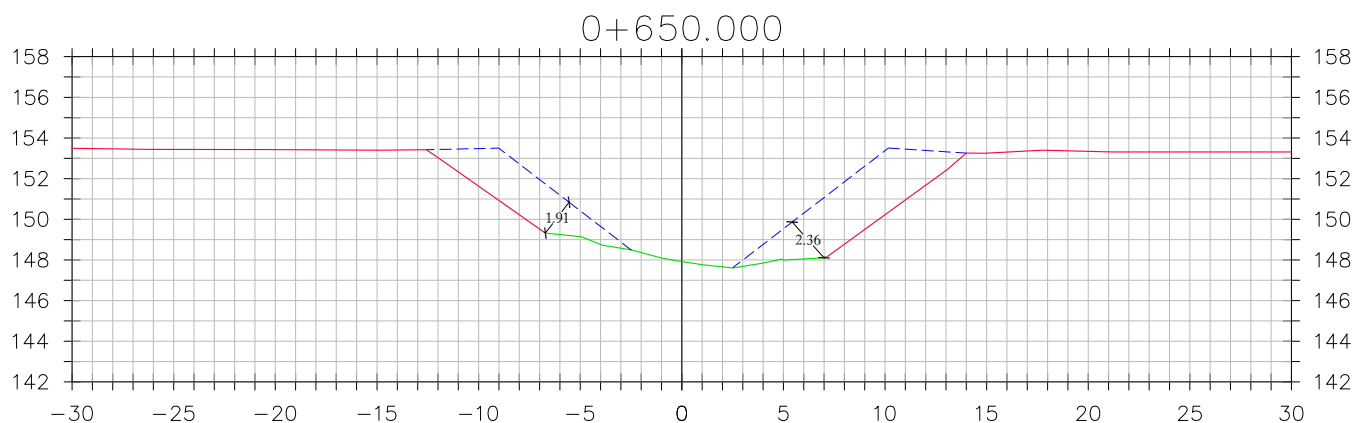
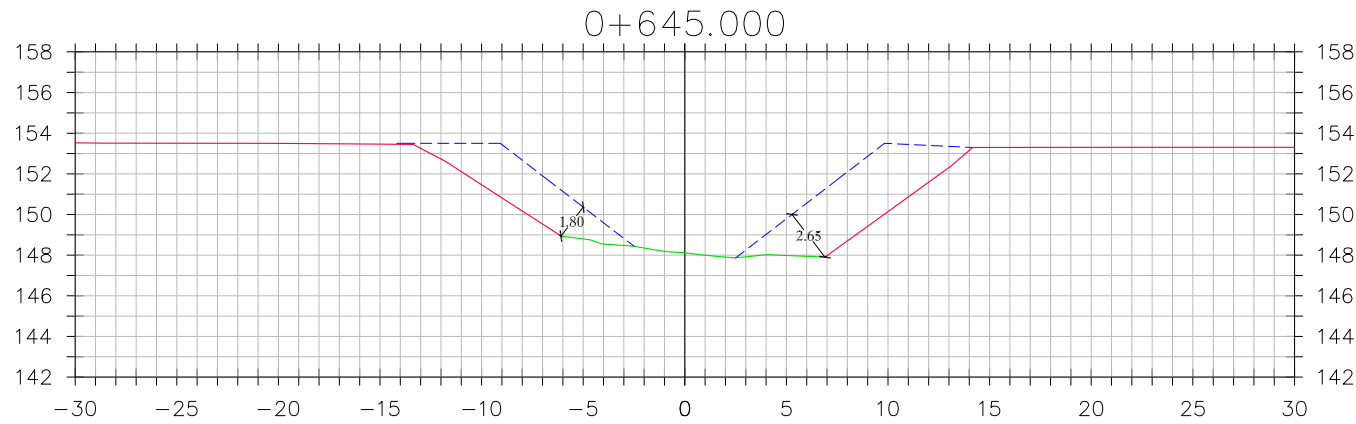
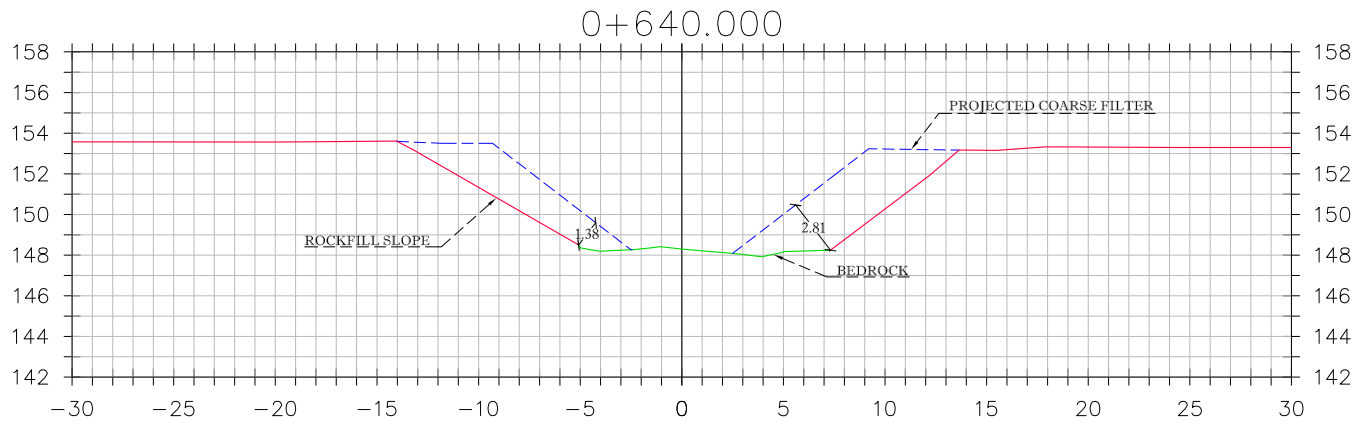
C:\Dropbox\Dropbox (Groupe Gilbert)_percentage meadowbank\2018\02-E - OFFICIAL DRAWING\11-811 - AMO DIKES\CON-FD (AS BUILT)\CON-FD-055_FA.dwg

FND-WT-025
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811



FND-WT-025
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811

c:\Dropbox\Dropbox (Groupe Gilbert)\arcentage meadowbank\2018\02-E - OFFICIAL DRAWING\11-811 - AMO DIKES\CON-FD (AS BUILT)\CON-FD-055_FA.dwg



KIVALLIQ CONTRACTORS
GROUP LTD

PREPARED BY : MARC-ANDRÉ BLACKBURN
DATE : 23-08-2018
CON-FD-055_FA

PROJECT : WTD Construction
PROJECT #: 658309 DATE: Aug. 23, 2018
DOCUMENT #: 20180823-DS-02 TIME: 14:40
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☒ Foundation approval (key trench)
☐ Fill placement: _____
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+655 to 0+675</u>	Station:	<u>0+635 to 0+655</u>
Inclination:		Details:	
ELEVATION	: <input checked="" type="checkbox"/> varies _____ m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u>		<u>VERIFICATIONS DONE BY:</u>				
(Add additional items if needed)		QA		QC		N/A
		Y	N	Y	N	
1. Lines and grades		✓		✓		
2. Free of ice/snow/ water		✓		✓		
3. Cleaning of trench and/or pile bottom		✓		✓		
4. Gradation (visual)						✓
5. Placement (lift thickness, segregation, etc.)						✓✓
6. Compaction						✓
7. Foundation on bedrock						✓
8. Key-in depth into bedrock						✓
9. Water quality						✓
10. CB slurry viscosity and density						✓
11. Elevation of CB Piles						✓
12. Primary piles strength (Minimum of 50 kPa UCS)						✓
13. Keying between primary and secondary						✓
14. Cracks on top of cutoff wall						✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
3	Clear bedrock, free of ice and mud. Seams to be on fractured bedrock.	✓		✓	
	A lot of spots check has been done with an excavator.				
	QC boat survey matched with the bathymetry of the contractor.				

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

Contractor's Rep. Jonathan A.C.

NAME

Jozeem Azmada

Maxime Côté

Patrice Gagnon

Jonathan A.C.

SIGNATURE

Jonathan A.C.

Maxime Côté

Patrice Gagnon

Jonathan A.C.

DATE

Aug. 23, 2018.

18-08-23

2018-08-24

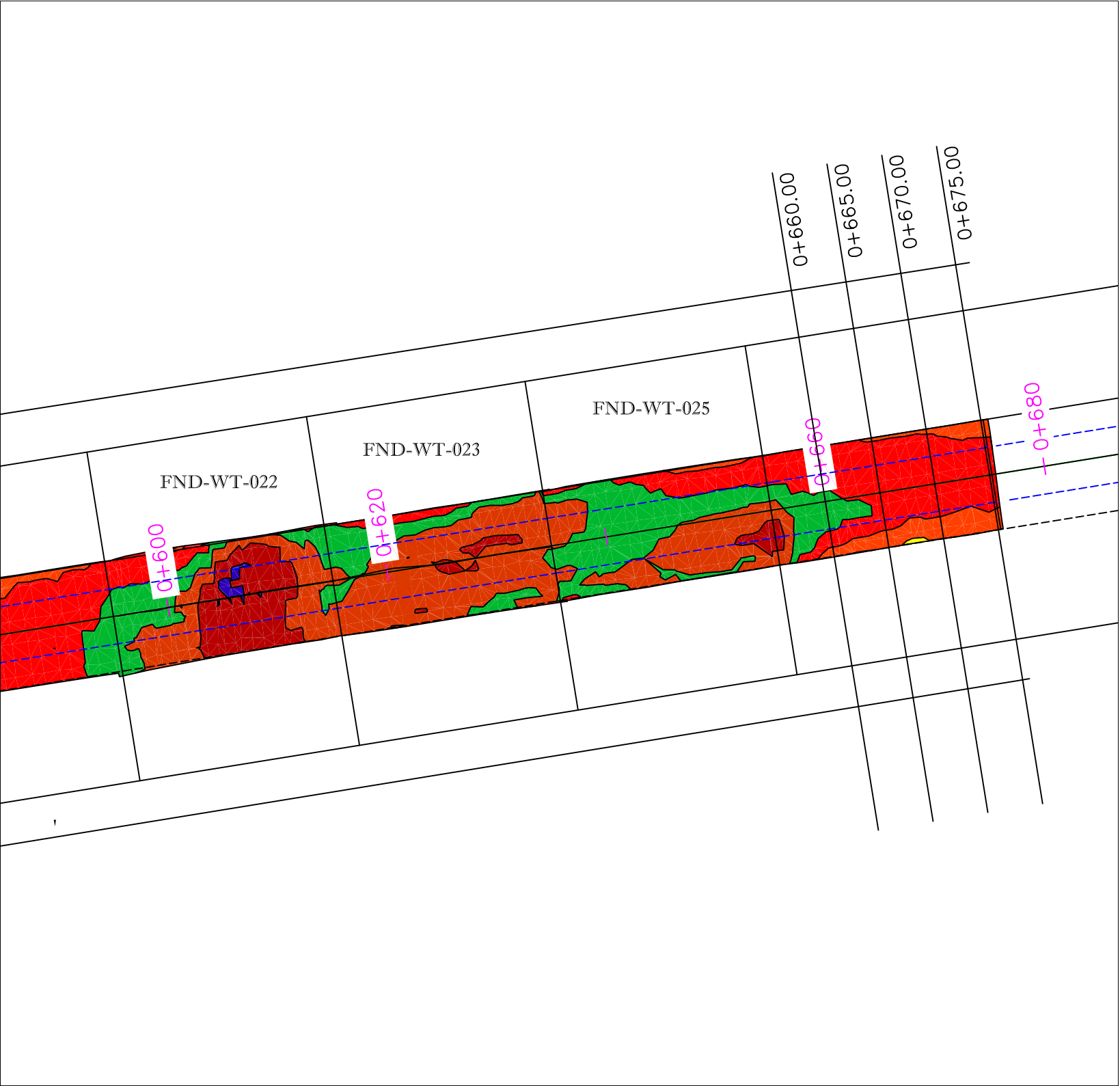
2018-08-23

FND-WT-026

FOUNDATION APPROVAL - WHALE TAIL

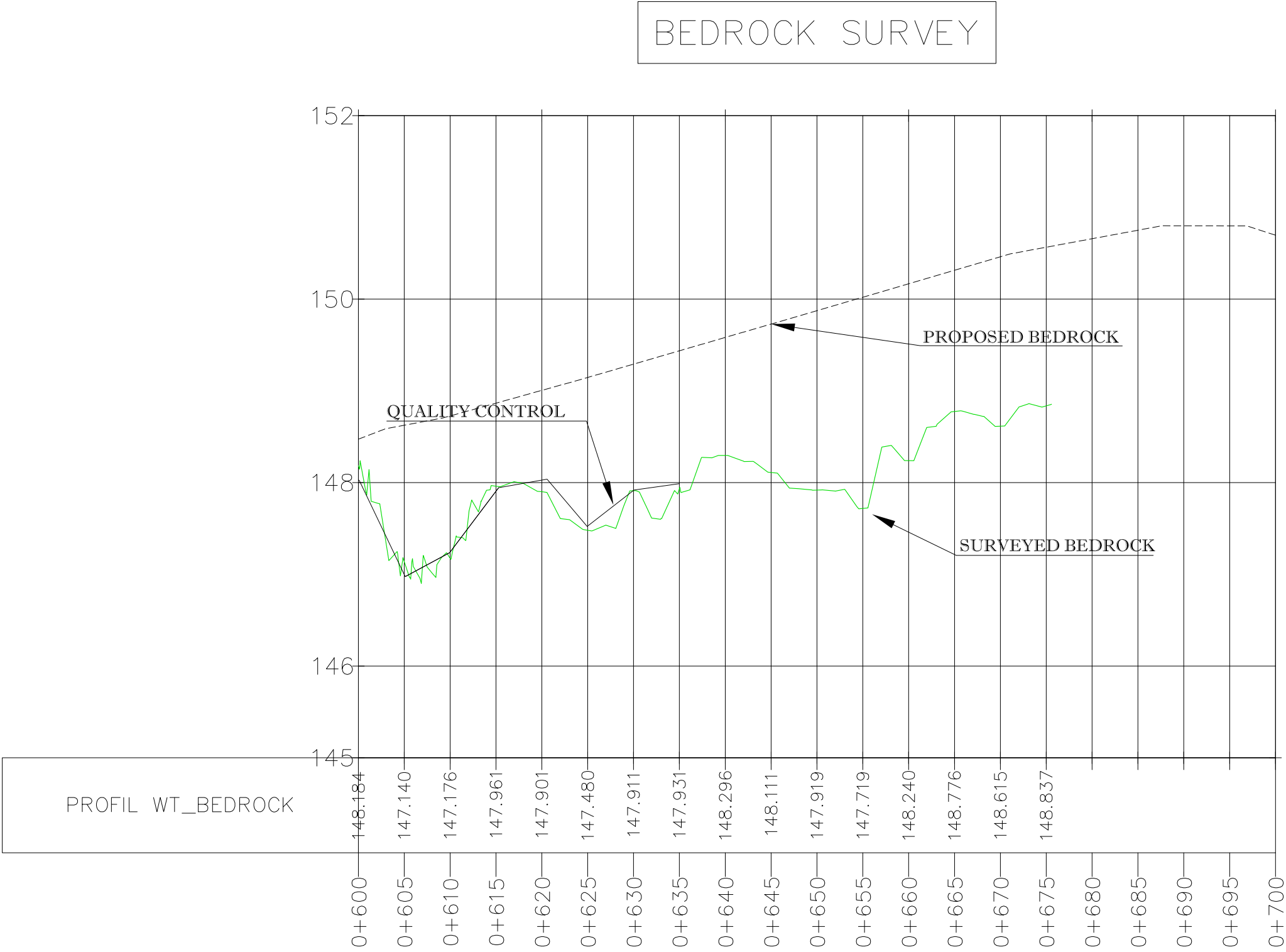
CONTRACT # 11-811

Elevations Table				
Number	Minimum Elevation	Maximum Elevation	Area	Color
1	143.00	143.50	0.00	■
2	143.50	144.00	13.07	■
3	144.00	144.50	33.80	■
4	144.50	145.00	32.96	■
5	145.00	145.50	23.02	■
6	145.50	146.00	17.15	■
7	146.00	146.50	32.42	■
8	146.50	147.00	59.31	■
9	147.00	147.50	79.02	■
10	147.50	148.00	111.96	■
11	148.00	148.50	81.81	■
12	148.50	149.00	60.86	■
13	149.00	149.50	64.91	■
14	149.50	150.00	211.36	■
15	150.00	150.50	237.84	■
16	150.50	151.00	525.94	■
17	151.00	151.50	471.13	■
18	151.50	152.00	546.99	■
19	152.00	152.50	231.75	■
20	152.50	153.00	6.75	■



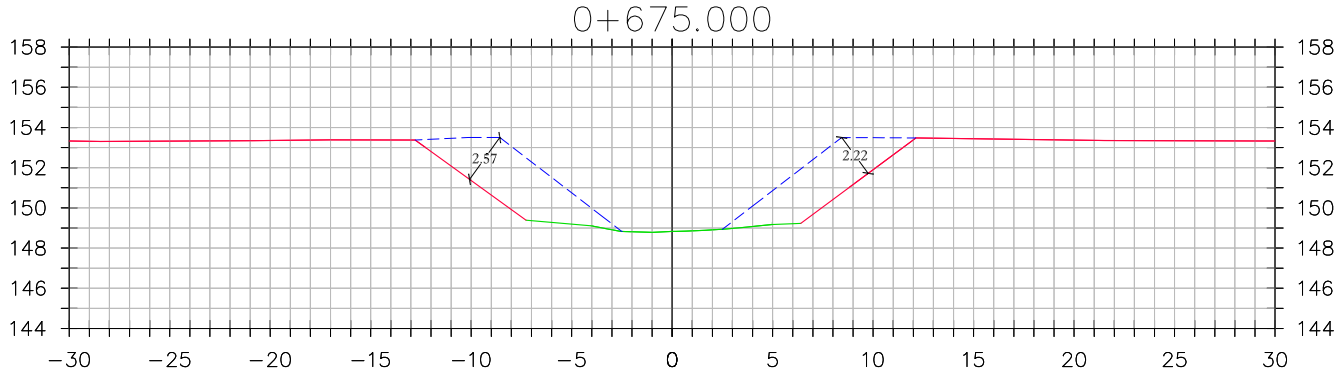
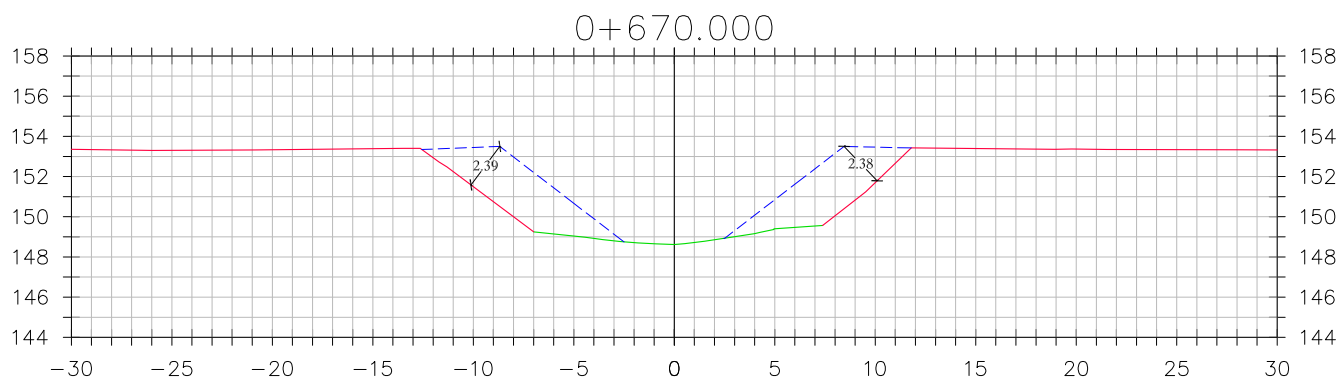
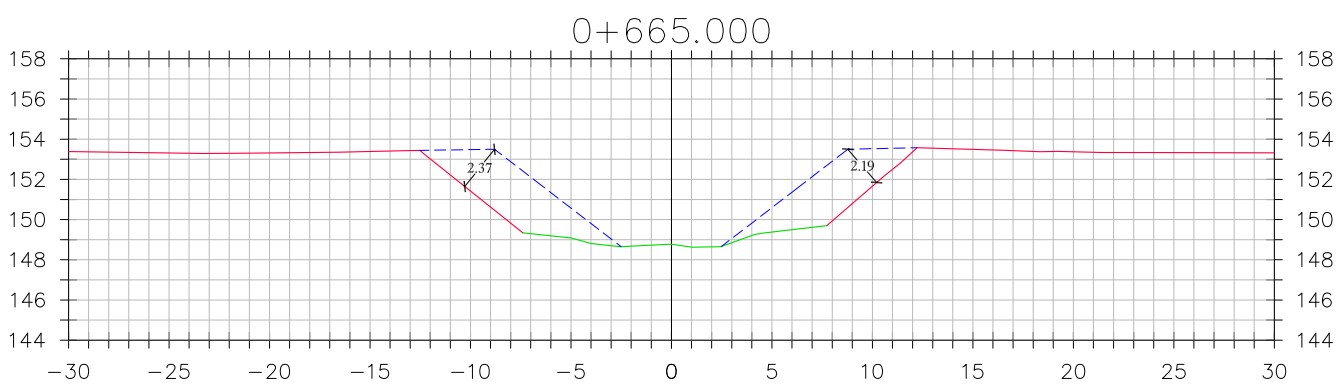
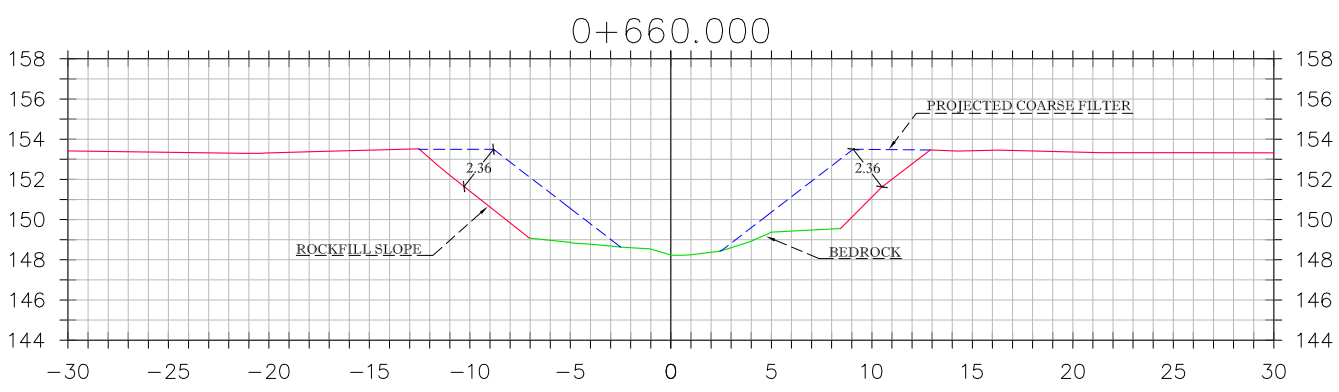
C:\Dropbox\Dropbox (Groupe Gilbert)_percentage meadowbank\2018\02-E - OFFICIAL DRAWING\11-811 - AMO DIKES\CON-FD (AS BUILT)\CON-FD-056_FA.dwg

FND-WT-026
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811



FND-WT-026
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811

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PROJECT : WTD Construction
PROJECT #: 658309 DATE: Aug. 24, 2018
DOCUMENT #: 20180824-DS-01 TIME: 11:10
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☒ Foundation approval (key trench)
- ☐ Fill placement: _____
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+675 to 0+705</u>	Station: <u>0+655 to 0+675</u>
Inclination: _____	Details: _____
ELEVATION : <input checked="" type="checkbox"/> varies _____ m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
2. Free of ice/snow/ water	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
3. Cleaning of trench and/or pile bottom	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
4. Gradation (visual)			<input checked="" type="checkbox"/>		
5. Placement (lift thickness, segregation, etc.)					<input checked="" type="checkbox"/>
6. Compaction					<input checked="" type="checkbox"/>
7. Foundation on bedrock					<input checked="" type="checkbox"/>
8. Key-in depth into bedrock					<input checked="" type="checkbox"/>
9. Water quality					<input checked="" type="checkbox"/>
10. CB slurry viscosity and density					<input checked="" type="checkbox"/>
11. Elevation of CB Piles					<input checked="" type="checkbox"/>
12. Primary piles strength (Minimum of 50 kPa UCS)					<input checked="" type="checkbox"/>
13. Keying between primary and secondary					<input checked="" type="checkbox"/>
14. Cracks on top of cutoff wall					<input checked="" type="checkbox"/>

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
3	<p>clean bedrock, free of ice and mud. Seems to be fractured rock.</p> <p>A lot of field has been done with an excavator at different stations, every thing is good.</p> <p>QC survey matches with the bathymetry of the contractor</p>	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

Tezera Azmeh
 Maxime Côté
 Patrice Gagnon
 Jonathan A.C.

SIGNATURE

[Signatures]

DATE

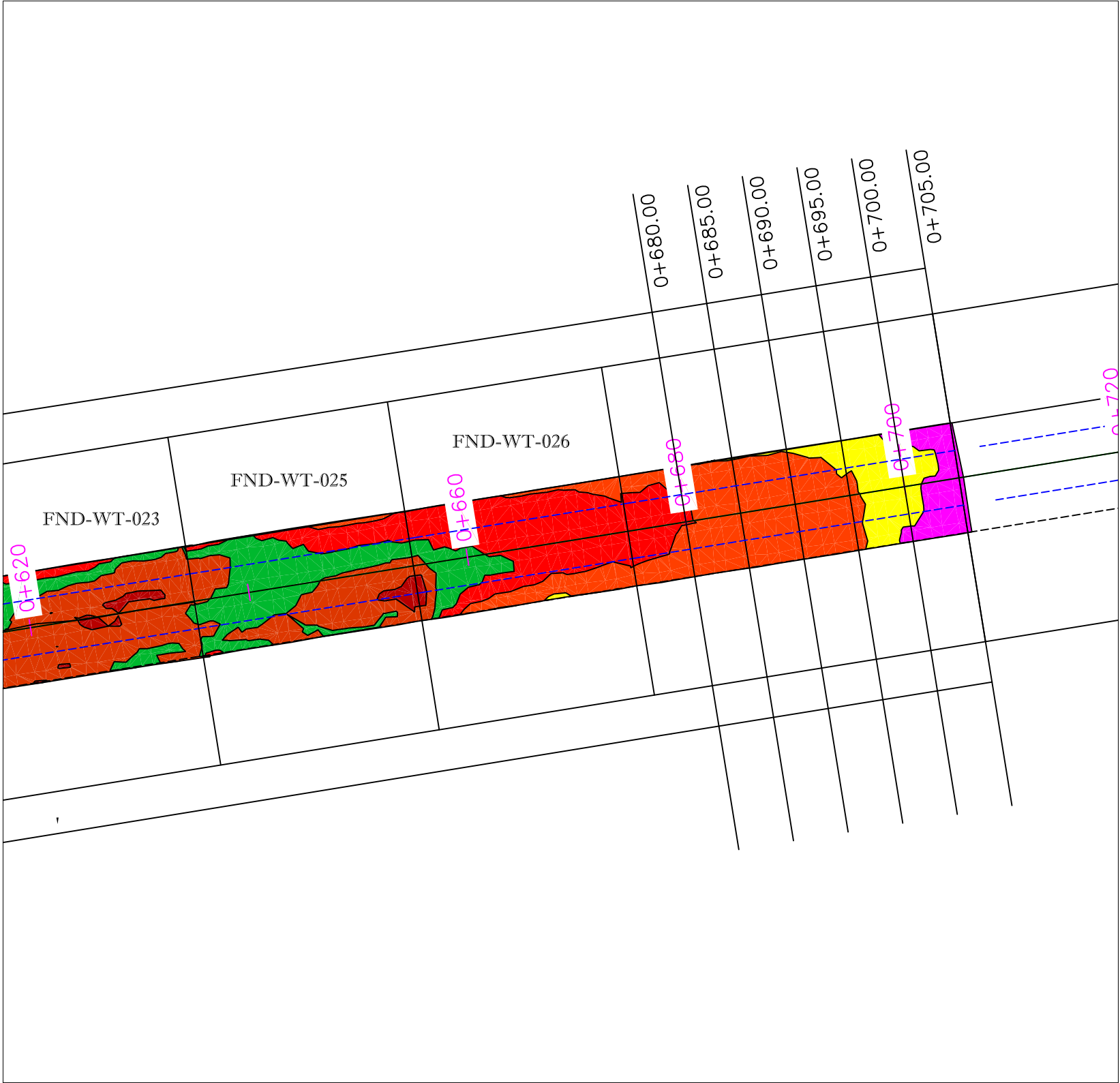
Aug. 24, 2018
 18-08-24
 2018-08-24
 2018-08-24

FND-WT-027

FOUNDATION APPROVAL - WHALE TAIL

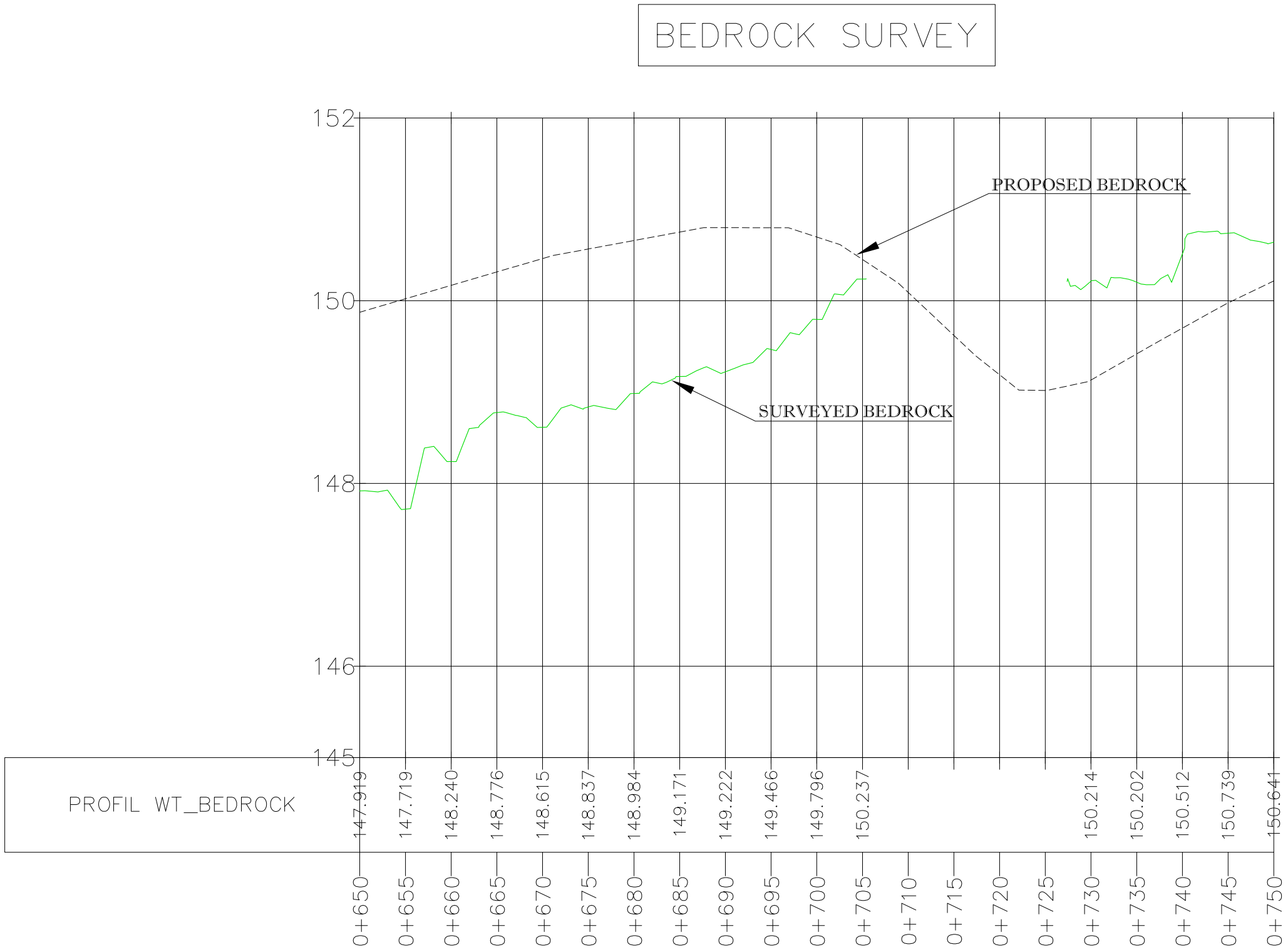
CONTRACT # 11-811

Elevations Table				
Number	Minimum Elevation	Maximum Elevation	Area	Color
1	143.00	143.50	0.00	■
2	143.50	144.00	13.07	■
3	144.00	144.50	33.80	■
4	144.50	145.00	32.96	■
5	145.00	145.50	23.02	■
6	145.50	146.00	17.15	■
7	146.00	146.50	32.42	■
8	146.50	147.00	59.31	■
9	147.00	147.50	79.02	■
10	147.50	148.00	111.96	■
11	148.00	148.50	81.81	■
12	148.50	149.00	60.86	■
13	149.00	149.50	64.91	■
14	149.50	150.00	211.36	■
15	150.00	150.50	237.84	■
16	150.50	151.00	525.94	■
17	151.00	151.50	471.13	■
18	151.50	152.00	546.99	■
19	152.00	152.50	231.75	■
20	152.50	153.00	6.75	■

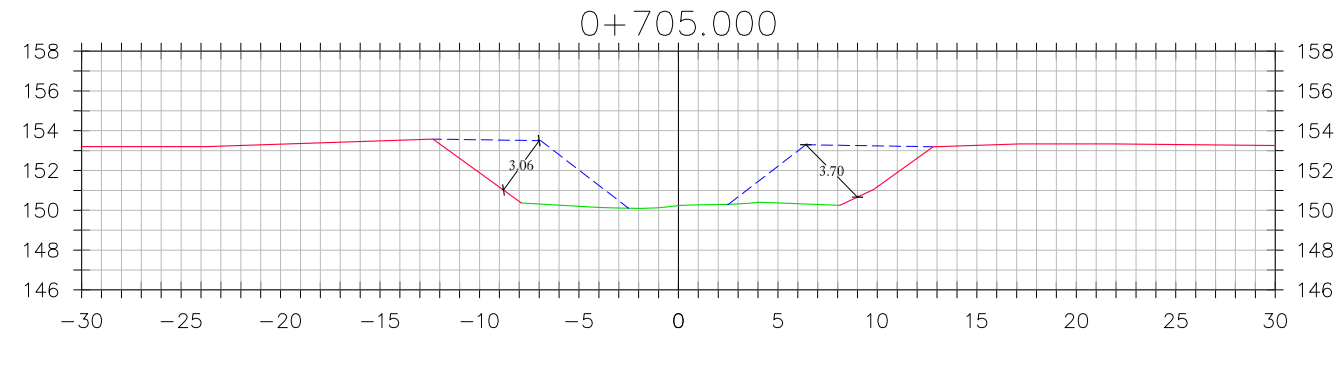
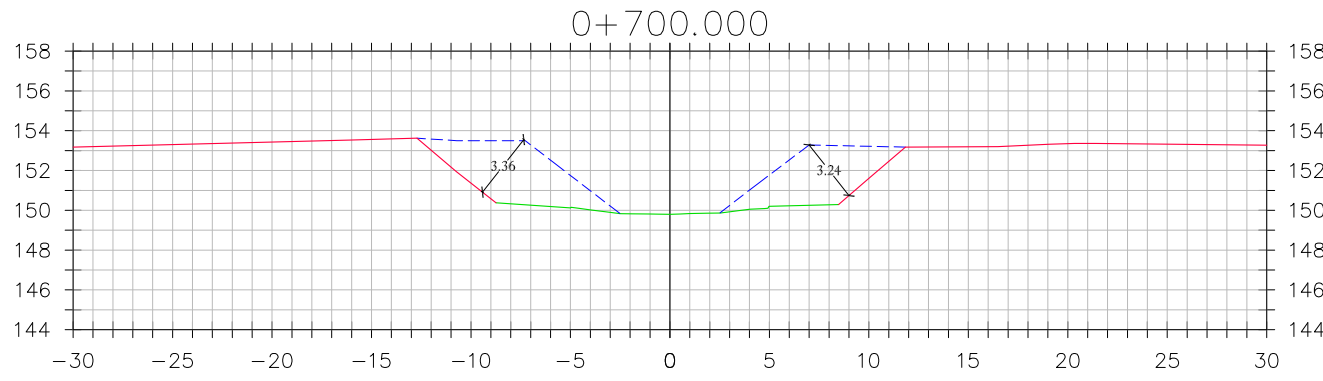
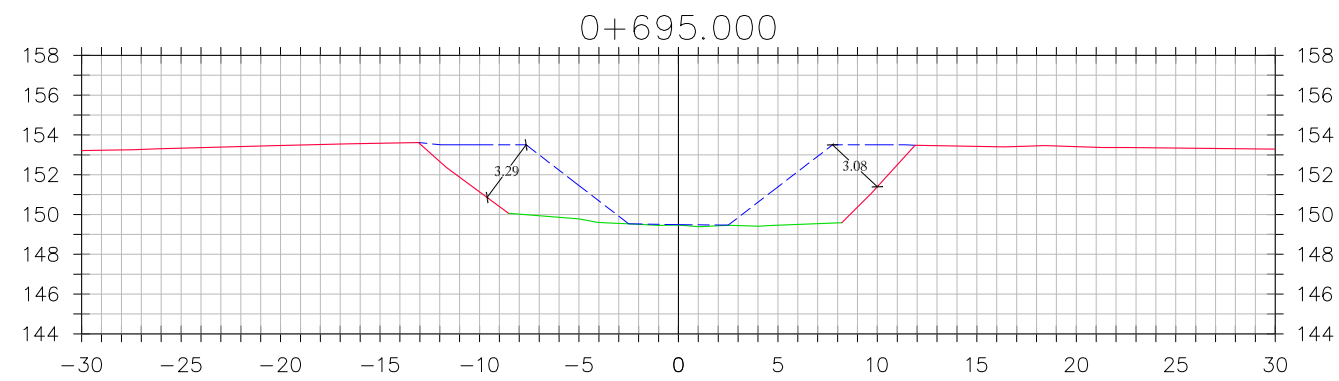
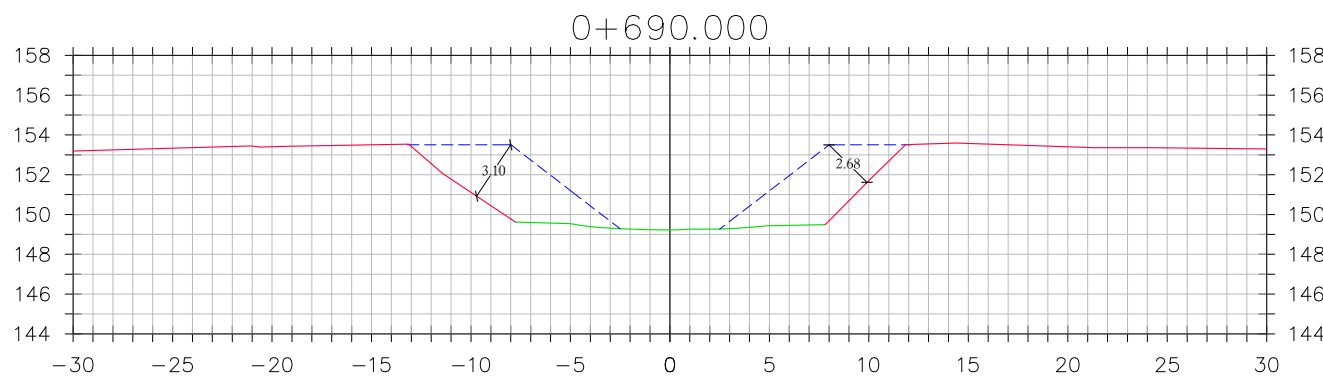
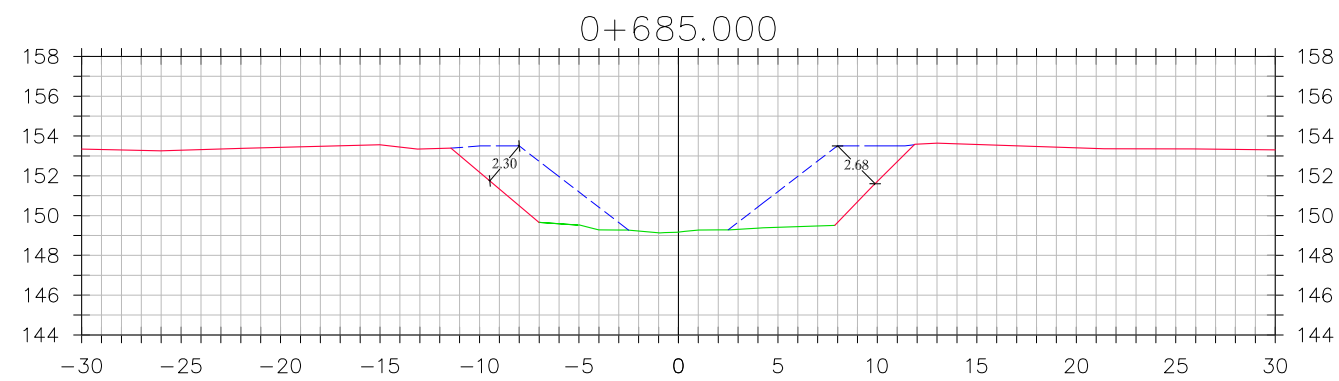
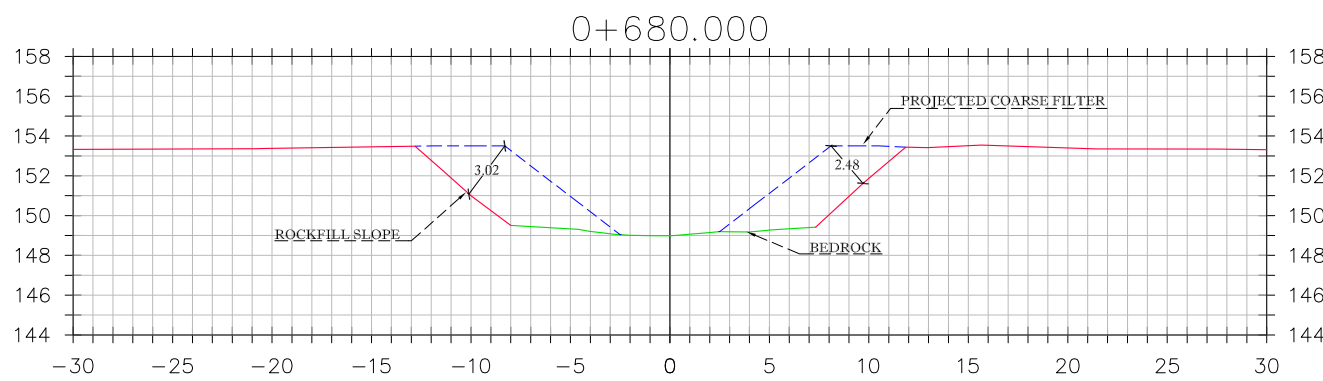


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FND-WT-027
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811



FND-WT-027
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811



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PROJECT : WTD Construction
PROJECT #: 658309 DATE: Aug. 25, 2018
DOCUMENT #: 20180825-DS-04 TIME: 17:30
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☒ Foundation approval (key trench)
☐ Fill placement: _____
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+705 to 0+727</u>	Station:	<u>0+675 to 0+705</u>
Inclination:		Details:	
ELEVATION	: <input checked="" type="checkbox"/> varies _____ m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:





















(Add additional items if needed)

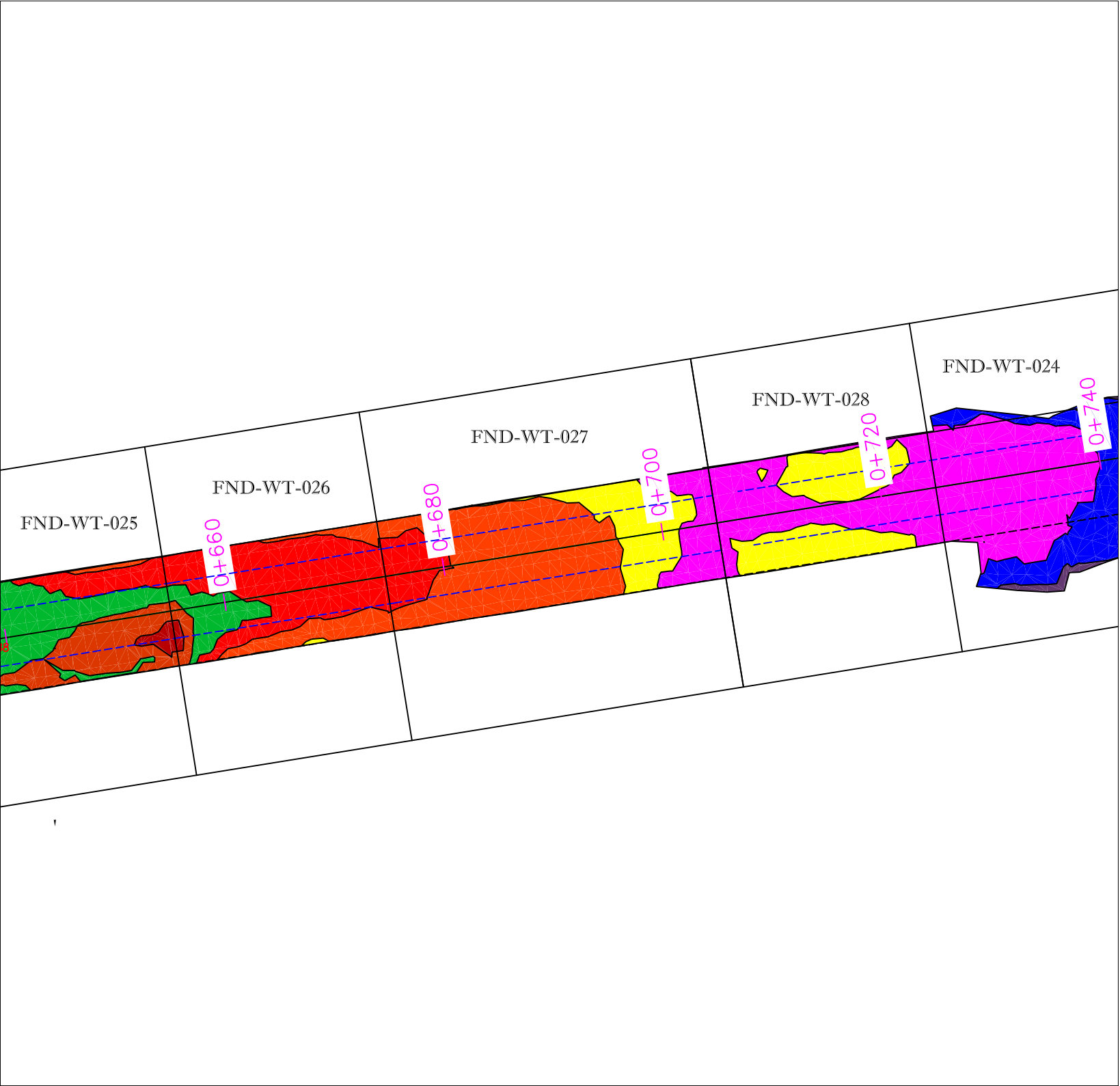
COMPLIANCE WITH TECHNICAL SPECIFICATIONS: (Add additional items if needed)	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/ water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)					✓
5. Placement (lift thickness, segregation, etc.)					✓
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

FND-WT-028

FOUNDATION APPROVAL - WHALE TAIL

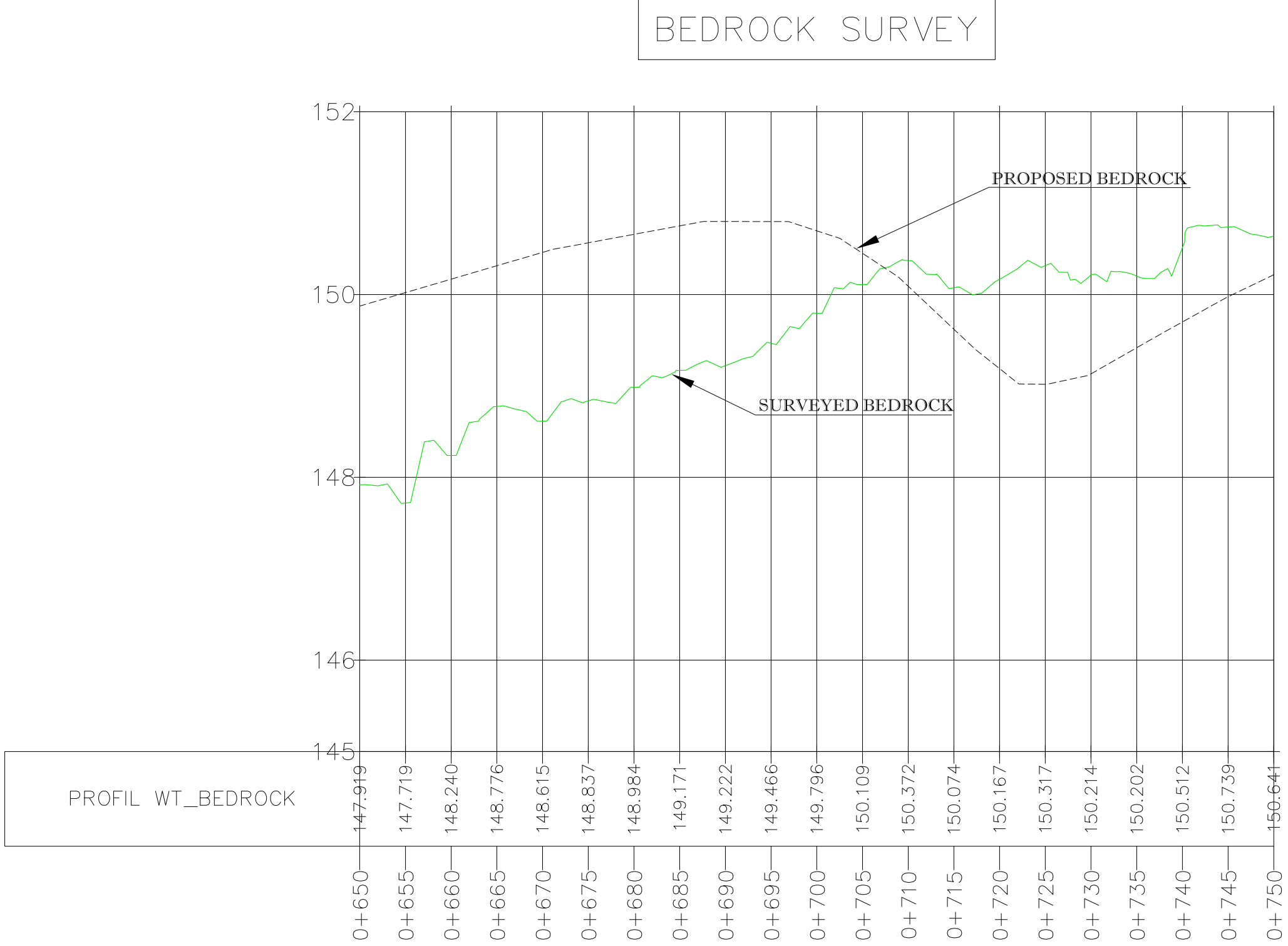
CONTRACT # 11-811

Elevations Table				
Number	Minimum Elevation	Maximum Elevation	Area	Color
1	143.00	143.50	0.00	
2	143.50	144.00	13.07	
3	144.00	144.50	33.80	
4	144.50	145.00	32.96	
5	145.00	145.50	23.02	
6	145.50	146.00	17.15	
7	146.00	146.50	32.42	
8	146.50	147.00	59.31	
9	147.00	147.50	79.02	
10	147.50	148.00	111.96	
11	148.00	148.50	81.81	
12	148.50	149.00	60.86	
13	149.00	149.50	64.91	
14	149.50	150.00	211.36	
15	150.00	150.50	237.84	
16	150.50	151.00	525.94	
17	151.00	151.50	471.13	
18	151.50	152.00	546.99	
19	152.00	152.50	231.75	
20	152.50	153.00	6.75	



C:\Dropbox\Dropbox (Groupe Silver)_percentage meadowbank\2018\02-E - OFFICIAL DRAWING\11-811 - AMO DIKES\CON-FD (AS BUILT)\CON-FD-059_FA.dwg

FND-WT-028
FOUNDATION APPROVAL - WHALE TAIL
CONTRACT # 11-811



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Appendix H-2

Rockfill Placement

As-Built Report of Whale Tail Dike		Original -V.00
2020-06-05	658309-0000-56ER-0001	Technical Report

PROJECT : Construction of Whale Tail Dike
PROJECT #: _____ DATE: July 28, 2018
DOCUMENT #: 20180728-DS-01 TIME: _____
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: Rock fill placement
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>~ 0+700 to 0+650</u>	Station:	_____
Inclination:	_____	Details:	_____
ELEVATION	<u>153.5 m</u> *1		
:	<input type="checkbox"/> varies		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

VERIFICATIONS DONE BY:

	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades ^{*2} (Refer to note below) - Next page	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					—
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					—
8. Key-in depth into bedrock					—
9. Water quality					—
10. CB slurry viscosity and density					—
11. Elevation of CB Piles					—
12. Primary piles strength (Minimum of 50 kPa UCS)					—
13. Keying between primary and secondary					—
14. Cracks on top of cutoff wall					—

*1 - Note that the elevation of the platforms was changed from El. 154m to El. 153.5m. The technical specification document has it as 154m.

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					—
16. As built survey completed					—
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
1	*2 Note that the lines of the platforms (extent of rockfill placement) have intentionally (to improve working) been moved towards the centerline of the dike. The fills placed outside design extent will later on be excavated out.	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

SIGNATURE

DATE

Tezera Azmatch

[Signature]

28th July 2018

Maxime Côté

[Signature]

29th July 2018

[Signature]

Patrice Gagnon

29th July 2018

PROJECT : CONSTRUCTION OF WHALE TAIL OIKE

PROJECT #:

DATE: 2018-07-29

DOCUMENT #: 20180729-NS-01

TIME: 5:00

(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

(24 hour clock)

APPROVAL FOR :

☐ Foundation approval (footprint)

☐ Foundation approval (key trench)

☒ Fill placement: ROCKFILL PLATFORMS

☐ CB cutoff wall approval

☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+650 to 0+600</u>	Station:	_____
Inclination:	<u>-</u>	Details:	_____
ELEVATION	<input type="checkbox"/> varies <u>153.5</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

VERIFICATIONS DONE BY:

	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)			✓		
6. Compaction			✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME _____

MATHIEU SÉZÉQUEL

Denis Jacques Coulombe
Karl Pearson

SIGNATURE

Made by
PATRIKE GAGNON

DATE _____

2018-07-29

2018-07-29

9818-07-29



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Canada H3A 1M8

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Fax: (514) 390-2765
www.snc-lavalin.com

APPROVAL FORM

PROJECT : Whale Tail Dike Construction

PROJECT #:

DATE: July 29, 2018

DOCUMENT #: 20180729-DS-01

TIME: 17:00

(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

(24 hour clock)

APPROVAL FOR :

☐ Foundation approval (footprint)

☐ Foundation approval (key trench)

☒ Fill placement: Rock fill placement

☐ CB cutoff wall approval

☐ Other: _____

LOCATION

Station: 0+600 to 0+560

Inclination:

ELEVATION : ☐ varies 153.5m m

PREVIOUS APPROVALS

Station: _____

Details: _____

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

VERIFICATIONS DONE BY:

	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades <u>(Refer to notes on previous approval form)</u>	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					—
4. Gradation (visual) <u>*1</u>	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					—
8. Key-in depth into bedrock					—
9. Water quality					—
10. CB slurry viscosity and density					—
11. Elevation of CB Piles					—
12. Primary piles strength (Minimum of 50 kPa UCS)					—
13. Keying between primary and secondary					—
14. Cracks on top of cutoff wall					—

PROJECT : CONSTRUCTION OF WHALE TAIL DIKE
 PROJECT # : _____
 DOCUMENT # : 30
20180730-NS-01
 (YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: 2018-07-30
 TIME: 4:50
 (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: ROCKFILL PLATFORMS
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+560 to 0+495</u>	Station:	_____
Inclination:	<u>-</u>	Details:	_____
ELEVATION	<input type="checkbox"/> varies <u>153.5</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					-
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					
7. Foundation on bedrock					-
8. Key-in depth into bedrock					-
9. Water quality					-
10. CB slurry viscosity and density					-
11. Elevation of CB Piles					-
12. Primary piles strength (Minimum of 50 kPa UCS)					-
13. Keying between primary and secondary					-
14. Cracks on top of cutoff wall					-

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					-
16. As built survey completed					-
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
1	UPSTREAM LIMIT OF SOUTH PLATFORM IS $\approx 1.0m$ TOO WIDE	✓		✓	
"	AT STATION 0+505, BUT LINES ARE GENERALLY RESPECTED.	✓			
4	GRADATION IS SOMEWHAT UNEVEN BETWEEN TRUCKS AND	✓		✓	
"	A BIT FINE GRADED BUT STILL ACCEPTABLE				

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU JÉZÉQUEL

Denis Jacques Gauthier
Patrice Gagnon

SIGNATURE

Mathieu Jézéquel
Denis Jacques Gauthier
Patrice Gagnon

DATE

2018-07-30

2018-07-30

2018/07-31

PROJECT : Whale Tail Dike Construction
 PROJECT #: _____ DATE: July 30, 2018
 DOCUMENT #: 20180730-DS-01 TIME: _____
 (YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: Rock fill placement
☐ CB cutoff wall approval
☒ Other: Rock fill stockpile

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+495 to 0+445</u>	Station:	_____
Inclination:	_____	Details:	_____
ELEVATION : <input type="checkbox"/> varies	<u>153.5</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓				
2. Free of ice/snow/water	✓				
3. Cleaning of trench and/or pile bottom					—
4. Gradation (visual) <u>*1</u>	✓				
5. Placement (lift thickness, segregation, etc.)	✓				
6. Compaction	✓				
7. Foundation on bedrock					—
8. Key-in depth into bedrock					—
9. Water quality					—
10. CB slurry viscosity and density					—
11. Elevation of CB Piles					—
12. Primary piles strength (Minimum of 50 kPa UCS)					—
13. Keying between primary and secondary					—
14. Cracks on top of cutoff wall					—

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					—
16. As built survey completed					—
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
4	*1 - Rockfill stockpile seems to have considerable fine grained portion. It is good to check its implication. Recommended.	✓			

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

Tezera Azmatch

DATRICE GAGNON

SIGNATURE

[Signature]

[Signature]

DATE

July 30, 2018

July 30, 2018

PROJECT : CONSTRUCTION OF WHALE TAIL DIKE
PROJECT # : _____
DOCUMENT # : 20180930-NS-01
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: 2018-07-31
TIME: 5:00
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: ROCKFILL PLATFORMS
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+445 to 0+405</u>	Station: _____
Inclination: _____	Details: _____
ELEVATION : <input type="checkbox"/> varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

QA REPRESENTATIVE

SIGNATURE

88/70/200
81/70/85
1E-60-8100

	QA	QC	N/A
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)	Y	N	Y
16. As built survey completed	Y	N	Y
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			

PROJECT : Whale Tail Dike Construction
PROJECT #: _____ DATE: 2018-07-31
DOCUMENT #: 20180731-DS-01 TIME: _____
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Rock fill placement
- ☐ CB cutoff wall approval
- ☒ Other: Visual observation of fine filter and coarse filter stockpiles

LOCATION	PREVIOUS APPROVALS
Station <u>0+405 to 0+384</u>	Station: _____
Inclination: _____	Details: _____
ELEVATION : <input type="checkbox"/> varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓				
2. Free of ice/snow/water	✓				
3. Cleaning of trench and/or pile bottom					—
4. Gradation (visual) - <u>Rock fill platform</u>	✓				
5. Placement (lift thickness, segregation, etc.)	✓				
6. Compaction	✓				
7. Foundation on bedrock					—
8. Key-in depth into bedrock					—
9. Water quality					—
10. CB slurry viscosity and density					—
11. Elevation of CB Piles					—
12. Primary piles strength (Minimum of 50 kPa UCS)					—
13. Keying between primary and secondary					—
14. Cracks on top of cutoff wall					—

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					—
16. As built survey completed					—
17. <i>Fine filter stockpile (visual gradation)</i>	✓				
18. <i>Coarse filter stockpile (visual gradation)</i>	✓				
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
4	<i>As noticed in previous reports (appropiate forms)</i>	✓			
18	<i>seems to have considerable fine fraction</i>	✓			
	<i>- appears to be checked through lab testing</i>				

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

Tezema Azmatal

PATRICE GAGNON

SIGNATURE

[Signature]

[Signature]

DATE

July 31, 2018

July 31, 2018

PROJECT : CONSTRUCTION OF WHALE TAIL DIKE

PROJECT #:

DATE: 2018-08-01

DOCUMENT #: 20180931-NS-02

TIME: 5:20

(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

(24 hour clock)

APPROVAL FOR :

☐ Foundation approval (footprint)

☐ Foundation approval (key trench)

☒ Fill placement: ROCK PILE PLACEMENT

☐ CB cutoff wall approval

☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station	<u>0+324 to 0+370</u>	Station: _____
Inclination:	<u>0+340 to 0+320</u>	Details: _____
ELEVATION :	<input type="checkbox"/> varies <u>1535</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					-
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					
7. Foundation on bedrock					-
8. Key-in depth into bedrock					-
9. Water quality					-
10. CB slurry viscosity and density					-
11. Elevation of CB Piles					-
12. Primary piles strength (Minimum of 50 kPa UCS)					-
13. Keying between primary and secondary					-
14. Cracks on top of cutoff wall					-

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					-
16. As built survey completed					-
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATTHEW J. ZEBULON

Ledrick Fillen translay

SIGNATURE

Mark Russell

Edward E. Hardy

DATE _____

2018-08-01

2018-07-31

PROJECT : CONSTRUCTION OF WHALE TAIL DIKE

PROJECT #:

DATE: 2018-08-01

DOCUMENT #: 2018 09 31 - NS-01

TIME: 5:20

(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: ROCKFILL PLATFORMS
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station	<u>0+370 to 0+340</u>	Station: _____
Inclination:	_____	Details: _____
ELEVATION	: <input type="checkbox"/> varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom			✓		-
4. Gradation (visual)		✓		✓	
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					
7. Foundation on bedrock					-
8. Key-in depth into bedrock					-
9. Water quality					-
10. CB slurry viscosity and density					-
11. Elevation of CB Piles					-
12. Primary piles strength (Minimum of 50 kPa UCS)					-
13. Keying between primary and secondary					-
14. Cracks on top of cutoff wall					-

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					—
16. As built survey completed					—
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
#4	The gradation has too much fine particles		✓		✓

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU JÉZÉQUEL

Pedrick Fillion Tremblay

SIGNATURE

Mathieu Jézéquel
Pedrick Fillion Tremblay

DATE

2018-08-01

2018-07-31



Sustaining capital
Mining & Metallurgy
1140 Maisonneuve boul. West
Montreal (Québec)
Canada H3A 1M8

Telephone: (514) 393-8000
Fax: (514) 390-2765
www.snclavalin.com

APPROVAL FORM

PROJECT : Whale Tail Dike Construction
PROJECT #: 710 805 DATE: 2018-08-02
DOCUMENT #: 2018 0802-NS-01 TIME: 5L00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: Rock Fill Placement
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		QA change	PREVIOUS APPROVALS	
Station	<u>0+320</u>	<u>0+295 (DS) crew</u>	Station:	_____
Inclination:	<u>0+295</u>	<u>0+287 (NS)</u>	Details:	_____
ELEVATION	<u>153.5</u> m			
: <input type="checkbox"/> varies				

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

VERIFICATIONS DONE BY:

	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					—
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					—
8. Key-in depth into bedrock					—
9. Water quality					—
10. CB slurry viscosity and density					—
11. Elevation of CB Piles					—
12. Primary piles strength (Minimum of 50 kPa UCS)					—
13. Keying between primary and secondary					—
14. Cracks on top of cutoff wall					—

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME _____

Jonathan Leblanc
Gedrick Fillen T.
Mitrice Cagnon

SIGNATURE

Jonathan Leblanc
Caleb K. Darling
Reddy

DATE _____

2018-08-02
2018-08-02
2018-08-02

PROJECT : WTD construction
PROJECT #: 710805 DATE: 02-08-2018
DOCUMENT #: 20180802-DS-01 TIME: 7:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: Rockfill placement
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+257 to 0+228</u>	Station:	_____
Inclination:	_____	Details:	_____
ELEVATION	<input type="checkbox"/> varies <u>153.5</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u> (Add additional items if needed)	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

		APPROVED BY:			
ITEM		QA		QC	
		Y	N	Y	N
5	Rockfill placement	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

Angie Arceiza
Melina Guay
Patrice Gagnon

SIGNATURE

[Signature]
[Signature]
[Signature]

DATE

02/08/2018
02/08/2018
02/08/2018

PROJECT : WTD Construction
PROJECT #: 658309 DATE: 2018-08-03
DOCUMENT #: 20180803-NS-01 TIME: 5:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: Rock Fill placement
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+228 to 0+200 north</u> <u>0+195 south</u>	Station:	_____
Inclination:	_____	Details:	_____
ELEVATION : <input type="checkbox"/> varies	<u>153.5</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u>		<u>VERIFICATIONS DONE BY:</u>				
(Add additional items if needed)		QA		QC		N/A
		Y	N	Y	N	
1.	Lines and grades	✓		✓		
2.	Free of ice/snow/water	✓		✓		
3.	Cleaning of trench and/or pile bottom	✓		✓		
4.	Gradation (visual)	✓		✓		
5.	Placement (lift thickness, segregation, etc.)	✓		✓		
6.	Compaction					—
7.	Foundation on bedrock					—
8.	Key-in depth into bedrock					—
9.	Water quality					—
10.	CB slurry viscosity and density					—
11.	Elevation of CB Piles					—
12.	Primary piles strength (Minimum of 50 kPa UCS)					—
13.	Keying between primary and secondary					—
14.	Cracks on top of cutoff wall					—

* Reached West abutment

PROJECT : WTO CONSTRUCTION
PROJECT #: 658309
DOCUMENT #: 20180817-NS-03
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: 2018-08-17
TIME: 5:25
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: ROCKFILL
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	<u>UPSTREAM (South) SIDE</u>	PREVIOUS APPROVALS Station: _____ Details: _____
Station	<u>0+736 to 0+768</u>	
Inclination:	<u>1.5H:1V</u>	
ELEVATION : <input type="checkbox"/> varies	<u>155</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

VERIFICATIONS DONE BY:

	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME _____

MATHEU JEZÉQUEL

Dennis J. Coulombe

Pier-Enic McDonald

SIGNATURE

Yusuf Hussain

Ref: 2

For the record

DATE

2018-08-17

2018-03-17

2018-08-17

PROJECT : WTD Construction
PROJECT #: 658309 DATE: 2018-08-19
DOCUMENT #: 20180819-NS-03 TIME: 15:45
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Rockfill Placement
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>North side 0+140 to 0+240</u> Inclination: <u>1.5H: 1V</u> ELEVATION : <input type="checkbox"/> varies <u>155.0</u> m	Station: _____ Details: _____

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
4	GRADATION LOOKS LIKE IT MEETS THE SPECS	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATTHEW SEZEMER

Dennis Jacques Coulombe

Pier-Gerard McDonald

SIGNATURE

[Handwritten Signature]

[Handwritten Signature]

[Handwritten Signature]

DATE

2018-08-19

2018-08-19

2018-08-19

PROJECT : WTD Construction
PROJECT #: 658309
DOCUMENT #: 20180819-NS-04
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: 2018-08-19
TIME: 8:50
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Rockfill placement
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station	<u>0+768 to 0+785</u>	Station: <u>0+736 to 0+768</u>
Inclination:	<u>1.5H:1V</u>	Details: _____
ELEVATION	<input type="checkbox"/> varies <u>155.0</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom			✓		
4. Gradation (visual)	✓		✓		✓
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction			✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHEMATHIQUES
Denis J. Coulombe
Pierre-Éric Paradis

SIGNATURE

SIGNATURE

[Handwritten signatures: "Mike Pappalardo", "Don Rick Cunkle", "Frederick J. McDonald"]

DATE

2018-08-19
2018-08-19
2018-08-19

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309
DOCUMENT #: 20180831-NS-04
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: 2018-08-31
TIME: 5:20
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: ROCKFILL PLACEMENT
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station	<u>0+270 to 0+300, SOUTH SIDE</u>	Station: _____
Inclination:	<u>1.5H:1V</u>	Details: _____
ELEVATION	<input type="checkbox"/> varies <u>157.0</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
6	LARGELY EXCEEDS SPECIFICATIONS	✓		✓	
	(4+ PASSES OF DR BULLDOZER AND HAULING OF				
	LOADED 100-TON TRUCKS ON ROLK FILL)				

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU SEZÉQUEL
 [Signature]
 [Signature]

SIGNATURE

[Signature]
 [Signature]
 [Signature]

DATE

2018-08-21
 2018-08-21
 2018-08-21

PROJECT : WTD construction
PROJECT #: 658309 DATE: Aug. 21, 2018
DOCUMENT #: 20180821-DS-08-09 TIME: 13:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: Rockfill
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+240 to 0+300</u> <u>(North side, d/s)</u>	Station:	<u>0+140 to 0+240</u>
Inclination:		Details:	
ELEVATION	<input type="checkbox"/> varies <u>155</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

COMPLIANCE WITH TECHNICAL SPECIFICATIONS: (Add additional items if needed)	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTD Construction
PROJECT #: 658309
DOCUMENT #: 20180821-DS-09/10
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: Aug. 21, 2018
TIME: 13:20
(24 hour clock)

APPROVAL FOR :

☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: Rockfill
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+235 to 0+285</u>	Station:	_____
Inclination:	<u>Northside, d/s)</u>	Details:	_____
ELEVATION	<input type="checkbox"/> varies <u>157</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u>	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WSD Construction
PROJECT #: 658309
DOCUMENT #: 20180821-05-10
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: Aug. 21, 2018
TIME: 14:00
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Rock fill
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+140 to 0+320</u>	Station:	_____
Inclination:	<u>(south side, U15)</u>	Details:	_____
ELEVATION : <input type="checkbox"/> varies	<u>155</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u>		<u>VERIFICATIONS DONE BY:</u>					
(Add additional items if needed)		QA		QC		N/A	
		Y	N	Y	N		
1. Lines and grades		✓		✓			
2. Free of ice/snow/water		✓		✓			
3. Cleaning of trench and/or pile bottom		✓		✓			
4. Gradation (visual)		✓		✓			
5. Placement (lift thickness, segregation, etc.)		✓		✓			
6. Compaction		✓		✓			
7. Foundation on bedrock						✓	
8. Key-in depth into bedrock						✓	
9. Water quality						✓	
10. CB slurry viscosity and density						✓	
11. Elevation of CB Piles						✓	
12. Primary piles strength (Minimum of 50 kPa UCS)						✓	
13. Keying between primary and secondary						✓	
14. Cracks on top of cutoff wall						✓	

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)			✓		✓
16. As built survey completed			✓		✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME _____

Tazera Azmat
MOB Bernard
Police Guyana

SIGNATURE

Interact

DATE

Aug. 21, 2018
21-08-2018
2018-08-29

PROJECT : WTD construction
PROJECT #: 658309
DOCUMENT #: 2018 08 21 - DS - 11 12
DATE: Aug. 21, 2018
TIME: 14:30
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Rock fill
- ☐ CB cutoff wall approval
- ☐ Other: _____

<u>LOCATION</u>	<u>PREVIOUS APPROVALS</u>
Station: <u>0+140 to 0+270</u>	Station: _____
Inclination: <u>Southside, U/S</u>	Details: _____
ELEVATION : <input type="checkbox"/> varies <u>157</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:


(Add additional items if needed)

	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)			✓		✓
16. As built survey completed			✓		✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N
				

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

Tezera Azmaka
M. Bernand
Patrice Cognin

SIGNATURE





DATE

Aug. 21, 2018
21-08-2018
2018 08 29

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-22
DOCUMENT #: 20180822-NS-02 TIME: 4:25
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: ROCKFILL
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+727 TO 0+739</u>	Station: <u>0+790 TO 0+808</u>
Inclination: <u>1.5H:1V</u>	Details: _____
ELEVATION : <input type="checkbox"/> varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

VERIFICATIONS DONE BY:

	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed	✓		✓		
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME _____

MATHIEU JÉZÉQUEL

Dennis J. Lombardi

Patrice Gagnon

SIGNATURE

Handwritten signature

~~Handwritten signature~~

[Handwritten signature]

DATE

2018-08-22

2018-08-22

2019-05-22

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-22
DOCUMENT #: 20180822-NS-05 TIME: 4:35
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: ROCKFILL
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station <u>UPSTREAM SIDE</u> <u>0+385 TO 0+483</u> Inclination: <u>1.5H:1V</u> ELEVATION : <input type="checkbox"/> varies <u>155</u> m	Station: _____ Details: _____

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU SEZÉQUEL
Dany J. Coulombe
Patrice Gagnon

SIGNATURE

Walker
 D. J. Walker
 D. J. Walker

DATE

2018-03-22
2018-08-22
2018-09-22

PROJECT : WTD Construction
PROJECT #: 658309
DOCUMENT #: 20180822-DS-04
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: Aug. 22, 2018
TIME: 17:30
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Rock fill
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station	<u>0+450 to 0+510</u>	Station: _____
Inclination:	<u>downstream</u>	Details: _____
ELEVATION : <input type="checkbox"/> varies	<u>155</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
2. Free of ice/snow/water	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
3. Cleaning of trench and/or pile bottom	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
4. Gradation (visual)	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
5. Placement (lift thickness, segregation, etc.)	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
6. Compaction	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
7. Foundation on bedrock	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
8. Key-in depth into bedrock					<input checked="" type="checkbox"/>
9. Water quality					<input checked="" type="checkbox"/>
10. CB slurry viscosity and density					<input checked="" type="checkbox"/>
11. Elevation of CB Piles					<input checked="" type="checkbox"/>
12. Primary piles strength (Minimum of 50 kPa UCS)					<input checked="" type="checkbox"/>
13. Keying between primary and secondary					<input checked="" type="checkbox"/>
14. Cracks on top of cutoff wall					<input checked="" type="checkbox"/>

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

Tereza Azmeh
 Maxime este
 Patrice Gagnon

SIGNATURE

SIGNATURE

[Handwritten signature]

DATE

DATE
Aug. 22, 2015
18-08-22
2015-08-22

PROJECT : WTD Construction
PROJECT #: 658309
DOCUMENT #: 20180822-45-06
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: Aug. 22, 2018
TIME: 17:30
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Rockfill
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station	<u>0+415 to 0+450</u>	Station: _____
Inclination:	<u>Upstream</u>	Details: _____
ELEVATION : <input type="checkbox"/> varies	<u>157</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock			✓		
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

Tezera Azmard
Maxime Côté
Patrice Gagnon

SIGNATURE

for him
~~him~~
for him

DATE

Aug. 24 1988
18-08-22
2015-08-22

PROJECT : WTO CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-23
DOCUMENT #: 20180823-NS-04 TIME: 4:55
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: ROCKFILL
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+395 To 0+415, UPSTREAM</u>	Station:	<u>0+415 To 0+450</u>
Inclination:	<u>1.5H:1V</u>	Details:	<u>UPSTREAM</u>
ELEVATION : <input type="checkbox"/> varies	<u>157.0</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u> (Add additional items if needed)	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N
ALL	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU JÉZOUÉL

Denis J. Coulombe

Patrice Gagnon

SIGNATURE

Mathieu Jézouél
Denis J. Coulombe
Patrice Gagnon

DATE

2018-08-23

2018-08-23

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-23
DOCUMENT #: 20180823-NS-05 TIME: 5:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: ROCK FILL
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+420 TO 0+450, DOWNSTREAM</u>	Station:	<u>0+450 TO 0+510</u>
Inclination:	<u>1.5H:1V</u>	Details:	<u>DOWNSTREAM</u>
ELEVATION	<input type="checkbox"/> varies <u>155</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	COMPLIANCE WITH TECHNICAL SPECIFICATIONS:				VERIFICATIONS DONE BY:	
	(Add additional items if needed)					
	QA		QC		N/A	
	Y	N	Y	N		
1. Lines and grades	✓		✓			
2. Free of ice/snow/water	✓		✓			
3. Cleaning of trench and/or pile bottom					✓	
4. Gradation (visual)	✓		✓			
5. Placement (lift thickness, segregation, etc.)	✓		✓			
6. Compaction	✓		✓			
7. Foundation on bedrock					✓	
8. Key-in depth into bedrock					✓	
9. Water quality					✓	
10. CB slurry viscosity and density					✓	
11. Elevation of CB Piles					✓	
12. Primary piles strength (Minimum of 50 kPa UCS)					✓	
13. Keying between primary and secondary					✓	
14. Cracks on top of cutoff wall					✓	

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N
AU	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATTHEU SÉZÉQUEL

Denis J. Loubert

Patrice Capron

SIGNATURE





DATE

2018-08-23

2018-08-23

2018-08-23

PROJECT : WTO CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-25
DOCUMENT #: 20180825-NS-09 TIME: 4:55
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: Rockfill
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+740 to 0+797, UPSTREAM</u>	Station:	_____
Inclination:	_____	Details:	_____
ELEVATION :	<input checked="" type="checkbox"/> varies FOLLOWING NATURAL GROUND m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

COMPLIANCE WITH TECHNICAL SPECIFICATIONS: (Add additional items if needed)	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock		—			✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N
ALL	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATTHEW SEZÉQUEL
 Denis J. Gauthier
 Patrice Gagnon

SIGNATURE

[Handwritten Signature]
[Handwritten Signature]
[Handwritten Signature]

DATE

2018-08-25
 2018-08-25
 2018-08-25

PROJECT : WTD Construction
PROJECT #: 658309 DATE: August 25, 2018
DOCUMENT #: 20180825-DS-01 TIME: 17:30
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Rock fill placement - East Abutment
(Upstream ~~North~~ side)
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+792 to 0+835</u> Inclination: <u>cupstream</u> ELEVATION : <input type="checkbox"/> varies <u>157</u> m	Station: <u>0+740 to 0+792</u> Details: _____

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-26
DOCUMENT #: 20180826-NS-04 TIME: 4:50
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: ROCKFILL
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station <u>0+555 to 0+626, SOUTH SIDE</u> Inclination: <u>1.5 H: 1 V</u> ELEVATION : <input type="checkbox"/> varies <u>157.0</u> m	Station: _____ Details: _____

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
1	TO BE CONFIRMED BY AS-BUILT SURVEY	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU JÉZÉQUEL

Denis J. Coulombe

Patrice Gagnon

SIGNATURE

Mathieu Jézéquel

Denis J. Coulombe

Patrice Gagnon

DATE

2018-08-26

2018-08-26

2018-09-26

PROJECT : WTO CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-26
DOCUMENT #: 20180826-NS-05 TIME: _____
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: ROCK FILL
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station <u>0+508 To 0+583, NORTH SIDE</u> Inclination: <u>1.5H:1V</u> ELEVATION : <input type="checkbox"/> varies <u>157.0</u> m	Station: _____ Details: _____

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
1	TO BE COMPIAMED BY AS-BUILT SURVEY	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU JÉRÉQUEL

Danish Lumbumba

Patrice Gagnon

SIGNATURE

Math Jéréquel

Danish Lumbumba

Patrice Gagnon

DATE

2018-08-26

2018-08-26

2018-09-06

PROJECT : WTD Construction
PROJECT #: 658309 DATE: Aug. 26, 2018
DOCUMENT #: 20180826-DS-06 TIME: 17:40
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Rock fill
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+625 and 0+583</u> Inclination: <u>Downstream</u> ELEVATION : <input type="checkbox"/> varies <u>1st</u> m	Station: <u>0+508 to 0+583</u> Details: _____

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-27
DOCUMENT #: 20180827-NS-03 TIME: 5:25
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: ROCKFILL
- ☐ CB cutoff wall approval
- ☐ Other: _____

<u>LOCATION</u>	<u>PREVIOUS APPROVALS</u>
Station: <u>0+625 to 0+700</u>	Station: <u>0+583 to 0+625</u>
Inclination: _____	Details: _____
ELEVATION : <input type="checkbox"/> varies <u>157.0</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N
ALL	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU JÉZÉQUEL

Denis L. Lacombe

Patrice Gagnon

SIGNATURE

[Signature]

[Signature]

[Signature]

DATE

2018-08-27

2018-08-27

2018-08-27

PROJECT : WTO CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-27
DOCUMENT #: 20180827-NS-05 TIME: 5:25
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: ROCK FILL
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+756 to 0+797</u>	Station: <u>0+797 to 0+835</u>
Inclination: <u>EAST ABUTMENT</u>	Details: _____
ELEVATION : <input type="checkbox"/> varies <u>152.0</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N
<u>All</u>	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU JÉZÉQUEL

Denis J. Coulombe

Patrice Gagnon

SIGNATURE







DATE

2018-08-27

2018-08-27

2018-08-27

PROJECT : WTD construction
PROJECT #: 658309 DATE: Aug 22, 2018
DOCUMENT #: 20180821-05-03 TIME: 17:25
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :



- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Rock fill
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+700 to 0+755</u>	Station: _____
Inclination: <u>(downstream)</u>	Details: _____
ELEVATION : <input type="checkbox"/> varies <u>155</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
2. Free of ice/snow/water	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
3. Cleaning of trench and/or pile bottom	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
4. Gradation (visual)	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
5. Placement (lift thickness, segregation, etc.)	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
6. Compaction	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
7. Foundation on bedrock					<input checked="" type="checkbox"/>
8. Key-in depth into bedrock					<input checked="" type="checkbox"/>
9. Water quality					<input checked="" type="checkbox"/>
10. CB slurry viscosity and density					<input checked="" type="checkbox"/>
11. Elevation of CB Piles					<input checked="" type="checkbox"/>
12. Primary piles strength (Minimum of 50 kPa UCS)					<input checked="" type="checkbox"/>
13. Keying between primary and secondary					<input checked="" type="checkbox"/>
14. Cracks on top of cutoff wall					<input checked="" type="checkbox"/>

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					
16. As built survey completed					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

NAME _____
Tezere Azingha
Mobernand
Patrice Capron

SIGNATURE

Ante = before
Memento = remember
Post = after

DATE

Aug. 27, 2018
27 Oct-2018
2018-08-28

PROJECT : WTD Construction
PROJECT #: 658309 DATE: Aug. 21, 2018
DOCUMENT #: 20180821-DS-04 TIME: 17:25
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Rock fill
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+634 to 0+678</u>	Station:	_____
Inclination:	<u>Upstream</u>	Details:	_____
ELEVATION	<input type="checkbox"/> varies <u>15.5</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

COMPLIANCE WITH TECHNICAL SPECIFICATIONS: (Add additional items if needed)	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

APPROVED BY:

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

NAME Terena Azmaty
MOB 907-222-1111
Patrice Cannon

SIGNATURE

Signature: _____

DATE

Aug. 27, 2018
2018-08-27
2018-09-28

PROJECT : WFO construction
PROJECT #: 658309 DATE: Aug. 27, 2018
DOCUMENT #: 20180827-DS-05 TIME: 13:40
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :



- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: rock fill
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station	<u>st 340 to st 360</u>	Station: _____
Inclination:	<u>(downstream)</u>	Details: _____
ELEVATION : <input type="checkbox"/> varies	<u>~ 154.5 m</u>	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

COMPLIANCE WITH TECHNICAL SPECIFICATIONS: (Add additional items if needed)	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					
16. As built survey completed					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

Tezga Azmafik
Möremyand
Pälice Capim

SIGNATURE

SIGNATURE

[Handwritten signature]

DATE

Aug. 27, 2018
27-08-2018
2018-08-28

PROJECT : WTD Construction
PROJECT #: 658309 DATE: Aug. 27, 2018
DOCUMENT #: 20180827-DS-06 TIME: 17:40
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Rockfill
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+320 to 0+355</u> <u>(upstream)</u>	Station:	_____
Inclination:	_____	Details:	_____
ELEVATION : <input type="checkbox"/> varies	<u>~154.5</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u>	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock			✓		
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME _____

NAME _____
Tezera Azmari
MD Bernan
Patrice Gynan

SIGNATURE

SIGNATURE

A handwritten signature in blue ink on lined paper. The signature is stylized and appears to be 'M. J. ...' followed by a large, sweeping flourish that extends across the lines.

DATE

Aug. 27, 2018
27-08-2018
2018-08-28

PROJECT : WTO CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-28
DOCUMENT #: 20180828-NS-01 TIME: 5:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: ROCKFILL
- ☐ CB cutoff wall approval
- ☐ Other: _____

<u>LOCATION</u>	<u>PREVIOUS APPROVALS</u>
Station: <u>0+355 TO 0+385, SOUTH SIDE</u>	Station: <u>0+320 TO 0+355</u>
Inclination: _____	Details: _____
ELEVATION : <input type="checkbox"/> varies <u>~154.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u>		<u>VERIFICATIONS DONE BY:</u>				
(Add additional items if needed)		QA		QC		N/A
		Y	N	Y	N	
1.	Lines and grades	✓		✓		
2.	Free of ice/snow/water	✓		✓		
3.	Cleaning of trench and/or pile bottom					✓
4.	Gradation (visual)	✓		✓		
5.	Placement (lift thickness, segregation, etc.)	✓		✓		
6.	Compaction	✓		✓		
7.	Foundation on bedrock					✓
8.	Key-in depth into bedrock					✓
9.	Water quality					✓
10.	CB slurry viscosity and density					✓
11.	Elevation of CB Piles					✓
12.	Primary piles strength (Minimum of 50 kPa UCS)					✓
13.	Keying between primary and secondary					✓
14.	Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

21-08-28

PROJECT : WTD CONSTRUCTION
PROJECT #: 658 309 DATE: 2018-08-29
DOCUMENT #: 20180829-NS-01 TIME: 2:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: ROCKFILL
- ☐ CB cutoff wall approval
- ☐ Other: _____

<u>LOCATION</u>	<u>PREVIOUS APPROVALS</u>
Station: <u>0+483 To 0+634, SOUTH SIDE</u>	Station: _____
Inclination: _____	Details: _____
ELEVATION : <input type="checkbox"/> varies <u>155.0</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u>		<u>VERIFICATIONS DONE BY:</u>				
(Add additional items if needed)		QA		QC		N/A
		Y	N	Y	N	
1.	Lines and grades	✓		✓		
2.	Free of ice/snow/water	✓		✓		
3.	Cleaning of trench and/or pile bottom			✓		✓
4.	Gradation (visual)	✓		✓		
5.	Placement (lift thickness, segregation, etc.)	✓		✓		
6.	Compaction	✓		✓		
7.	Foundation on bedrock					✓
8.	Key-in depth into bedrock					✓
9.	Water quality					✓
10.	CB slurry viscosity and density					✓
11.	Elevation of CB Piles					✓
12.	Primary piles strength (Minimum of 50 kPa UCS)					✓
13.	Keying between primary and secondary					✓
14.	Cracks on top of cutoff wall					✓

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-29
DOCUMENT #: 20180829-NS-02 TIME: 2:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: ROCKFILL
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station <u>0+677 TO 0+736, SOUTH SIDE</u> Inclination: _____ ELEVATION : <input type="checkbox"/> varies <u>155.0</u> m	Station: _____ Details: _____

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)			✓		✓
16. As built survey completed			✓		✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHEU JÉZÉQUEL
 M. Jézéquel
 Patrice Capron

SIGNATURE

Matheu Jézéquel
M. Jézéquel
Patrice Capron

DATE

2018-08-29
 2018-08-29
 2018-08-29

PROJECT : WTD CONSTRUCTION
PROJECT #: 658 309 DATE: 2018-08-29
DOCUMENT #: 20180829-NS-03 TIME: 2:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: ROCKFILL
☐ CB cutoff wall approval
☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+785 To 0+815, SOUTH SIDE</u>	Station: _____
Inclination: _____	Details: _____
ELEVATION: <input type="checkbox"/> varies <u>155.0</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)			✓		✓
16. As built survey completed			✓		✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU SÉZÉQUEL

Mohamed

Patrice Cagin

SIGNATURE

Markus J. J. J.

Michael

10/11/20

DATE

2018-08-29

2018-08-29

2018-08-29

PROJECT : WTO CONSTRUCTION
PROJECT #: 658 309 DATE: 2018-08-09
DOCUMENT #: 20180829-NS-04 TIME: 2:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: ROCKFILL
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station	<u>0+300 TO 0+340, NORTH SIDE</u>	Station: _____
Inclination:	_____	Details: _____
ELEVATION	: <input type="checkbox"/> varies <u>-154.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)			✓		✓
16. As built survey completed			✓		✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU JÉZÉQUEL

Mathieu Jézéquel

Patrice Bégin

SIGNATURE

(Signature)

(Signature)

(Signature)

DATE

2018-08-29

2018-8-29

2018-08-29

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-29
DOCUMENT #: 20180829-NS-05 TIME: 2:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: ROCKFILL
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+360 TO 0+420, NORTH SIDE</u>	Station: _____
Inclination: _____	Details: _____
ELEVATION: <input type="checkbox"/> varies <u>~155.0</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:			
	QA		QC	
	Y	N	Y	N
1. Lines and grades	✓		✓	
2. Free of ice/snow/water	✓		✓	
3. Cleaning of trench and/or pile bottom				✓
4. Gradation (visual)	✓		✓	
5. Placement (lift thickness, segregation, etc.)	✓		✓	
6. Compaction	✓		✓	
7. Foundation on bedrock				✓
8. Key-in depth into bedrock				✓
9. Water quality				✓
10. CB slurry viscosity and density				✓
11. Elevation of CB Piles				✓
12. Primary piles strength (Minimum of 50 kPa UCS)				✓
13. Keying between primary and secondary				✓
14. Cracks on top of cutoff wall				✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)			✓		✓
16. As built survey completed			✓		✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
1	BETWEEN ~0+360 TO 0+390, ROCKFILL CREST ELEVATION IS APPROXIMATELY 154.5m	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHEU SEZÉQUEL

Moner

Patrice Gagnon

SIGNATURE

[Handwritten Signature]

DATE

2018-08-29

2018-08-29

2018-08-29

PROJECT : WTO CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-29
DOCUMENT #: 20180829-NS-06 TIME: 2100
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: ROCKFILL
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+510 TO 0+700, NORTH SIDE</u>	Station:	_____
Inclination:	_____	Details:	_____
ELEVATION : <input type="checkbox"/> varies <u>155.0</u> m			

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:			
	QA		QC	
	Y	N	Y	N
1. Lines and grades	✓		✓	
2. Free of ice/snow/water	✓		✓	
3. Cleaning of trench and/or pile bottom				✓
4. Gradation (visual)	✓		✓	
5. Placement (lift thickness, segregation, etc.)	✓		✓	
6. Compaction	✓		✓	
7. Foundation on bedrock				✓
8. Key-in depth into bedrock				✓
9. Water quality				✓
10. CB slurry viscosity and density				✓
11. Elevation of CB Piles				✓
12. Primary piles strength (Minimum of 50 kPa UCS)				✓
13. Keying between primary and secondary				✓
14. Cracks on top of cutoff wall				✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)			✓		✓
16. As built survey completed			✓		✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME _____

MATHEU JÉZÉQUEL

moment

Patrice Gagnier

SIGNATURE

Handwritten signature: *U. G. P. / [unclear]*

DATE

2018-08-29

2018-08-29

2018-08-29

PROJECT : WTO CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-29
DOCUMENT #: 20180829-NS-07 TIME: 2:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: ROCKFILL
☐ CB cutoff wall approval
☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+755 To 0+815, NORTH SIDE</u>	Station: _____
Inclination: _____	Details: _____
ELEVATION : <input type="checkbox"/> varies <u>155.0</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)			✓		✓
16. As built survey completed			✓		✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHEU JÉZÉQUEL

Mixers

Matrice Cagnon

SIGNATURE

[Signature]

Achen

6

DATE

2018-08-29

4118-08-29

2018-08-29

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-29
DOCUMENT #: 20180829-NS-08 TIME: 2:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: ROCKFILL
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+450 TO 0+555, SOUTH SIDE</u>	Station:	_____
Inclination:	_____	Details:	_____
ELEVATION : <input type="checkbox"/> varies	<u>157.0</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:			
	QA		QC	
	Y	N	Y	N
1. Lines and grades	✓		✓	
2. Free of ice/snow/water	✓		✓	
3. Cleaning of trench and/or pile bottom				✓
4. Gradation (visual)	✓		✓	
5. Placement (lift thickness, segregation, etc.)	✓		✓	
6. Compaction	✓		✓	
7. Foundation on bedrock				✓
8. Key-in depth into bedrock				✓
9. Water quality				✓
10. CB slurry viscosity and density				✓
11. Elevation of CB Piles				✓
12. Primary piles strength (Minimum of 50 kPa UCS)				✓
13. Keying between primary and secondary				✓
14. Cracks on top of cutoff wall				✓

PROJECT : WTO CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-29
DOCUMENT #: 20180829-NS-09 TIME: 2:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: ROCKFILL
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+700 TO 0+756, SOUTH SIDE</u> Inclination: _____ ELEVATION: <input type="checkbox"/> varies <u>157.0</u> m	Station: _____ Details: _____

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

		VERIFICATIONS DONE BY:			
		QA		QC	
		Y	N	Y	N
1. Lines and grades		✓		✓	
2. Free of ice/snow/water		✓		✓	
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)		✓		✓	
5. Placement (lift thickness, segregation, etc.)		✓		✓	
6. Compaction		✓		✓	
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

[illegible]

2018-06-29

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-29
DOCUMENT #: 20180829-NS-10 TIME: 2:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: ROCKFILL
- ☐ CB cutoff wall approval
- ☐ Other: _____

<u>LOCATION</u>	<u>PREVIOUS APPROVALS</u>
Station <u>0+140 TO 0+235, NORTH SIDE</u>	Station: _____
Inclination: _____	Details: _____
ELEVATION : <input type="checkbox"/> varies <u>157.0</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u> (Add additional items if needed)	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-29
DOCUMENT #: 20180829-NS-11 TIME: 2:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: ROCKFILL
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+390 TO 0+508, NORTH SIDE</u>	Station: _____
Inclination: _____	Details: _____
ELEVATION: <input type="checkbox"/> varies <u>157.0</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

COMPLIANCE WITH TECHNICAL SPECIFICATIONS: (Add additional items if needed)	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-29
DOCUMENT #: 20180829-NS-12 TIME: 2:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: ROCK FILL
☐ CB cutoff wall approval
☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station <u>0+625 TO 0+756, NORTH SIDE</u>	Station: _____
Inclination: _____	Details: _____
ELEVATION : <input type="checkbox"/> varies <u>157.0</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u> (Add additional items if needed)	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)			✓		✓
16. As built survey completed			✓		✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHEW JÉZÉQUEL

MAJ BERNARD

Latrice Bagnon

SIGNATURE





DATE

2018-08-29

2018-08-29

2018-08-29

PROJECT : WTO CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-29
DOCUMENT #: 20180829-NS-13 TIME: 2:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: ROCKFILL
- ☐ CB cutoff wall approval
- ☐ Other: _____

<u>LOCATION</u>	<u>PREVIOUS APPROVALS</u>
Station <u>0+797 TO 0+835, NORTH SIDE</u>	Station: _____
Inclination: _____	Details: _____
ELEVATION : <input type="checkbox"/> varies <u>157.0</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u> (Add additional items if needed)	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTD Construction
PROJECT #: 658 309 DATE: 2018/09/02
DOCUMENT #: 201809 02 - NS - 01 TIME: _____
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: RockFill
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+330 to 0+380</u>	Station:	_____
Inclination:	<u>1.5H:1V</u>	Details:	_____
ELEVATION : <input type="checkbox"/> varies	<u>157</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

COMPLIANCE WITH TECHNICAL SPECIFICATIONS: (Add additional items if needed)	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)		✓		✓	
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
4	<p><i>on gradation PG</i></p> <p><u>Southside (upstream)</u> : non-conformity between 0+339 to 0+350 with boulders with diameters largely over 1500 to 2000 mm. The boulders affect the slope at this particular point.</p> <p><u>Northside (downstream)</u> : Between 0+330 to 0+353, way to fine RockFill in small quantity. The issue was rapidly corrected with QA/QC and contractor at the rockfill stockpile.</p>	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

Jonathan Leblanc
Cedrick Fillion Tremblay
Patrice Gagnon

SIGNATURE

Jonathan Leblanc
Cedrick Fillion Tremblay
Patrice Gagnon

DATE

02/09/2018
02/09/2018
02/09/2018

Appendix H-3

Fine Filter Placement

As-Built Report of Whale Tail Dike		Original -V.00
2020-06-05	658309-0000-56ER-0001	Technical Report

PROJECT : WTO CONSTRUCTION
PROJECT #: 658309
DOCUMENT #: 20180817-NS-02
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: 2018-08-17
TIME: 5:30
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: FINE FILTER
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+370 to 0+395</u>	Station: _____
Inclination: _____	Details: _____
ELEVATION : <input type="checkbox"/> varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
5	HANDLING + PLACEMENT MEET THE SPECS	✓		✓	
	FF placement for section 375-395, FF pushed				
	from 0+370 in order to keep overkip & avoid				
	FF from previous section on the next approved				
	foundations.				

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU JÉZÉQUEL

Denis J. Coombe

Pier- Eric McDonald

SIGNATURE

Mathieu Jézéquel
Denis J. Coombe
Pier- Eric McDonald

DATE

2018-08-17

2018-08-17

2018-08-17

PROJECT : WTO CONSTRUCTION
PROJECT # : 658309
DOCUMENT # : 20180817-NS-04
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE : 2018-08-17
TIME : 5:30
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: FINE FILTER
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+230 to 0+260</u>	Station: _____
Inclination: <u>1.5% IV</u>	Details: _____
ELEVATION : <input type="checkbox"/> varies <u>157.0 m</u>	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:			
	QA		QC	
	Y	N	Y	N
1. Lines and grades	✓		✓	
2. Free of ice/snow/water	✓		✓	
3. Cleaning of trench and/or pile bottom				
4. Gradation (visual)	✓		✓	
5. Placement (lift thickness, segregation, etc.)	✓		✓	
6. Compaction				
7. Foundation on bedrock				✓
8. Key-in depth into bedrock				✓
9. Water quality				✓
10. CB slurry viscosity and density				✓
11. Elevation of CB Piles				✓
12. Primary piles strength (Minimum of 50 kPa UCS)				✓
13. Keying between primary and secondary				✓
14. Cracks on top of cutoff wall				✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
5	LIFT THICKNESS IS 2.0m WHICH IS HIGHER THAN THE	✓		✓	
	UPPER LIMIT OF 1.5m ACCORDING TO THE SPECS				
	(SEE 3.6.3.4) => DOES NOT MEET THE SPECS.				
1.2.4	MEET THE SPECS	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHEU JÉZÉQUEL

Denis J. Carbone

Pierre-Éric Melançon

SIGNATURE

[Signature]

[Signature]

[Signature]

DATE

2018-08-17

2018-08-17

2018-08-17

PROJECT : WTO CONSTRUCTION
PROJECT #: 658309
DOCUMENT #: 20180818-NS-02
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: 2018-08-18
TIME: 5:05
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: FINE FILTER
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station <u>0+395 to 0+435</u>	Station: <u>0+370 to 0+395</u>	
Inclination: <u>-</u>	Details: _____	
ELEVATION : <input type="checkbox"/> varies <u>153.5</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom			✓		
4. Gradation (visual)	✓		✓		✓
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

		<u>APPROVED BY:</u>			
		QA		QC	
		Y	N	Y	N
ITEM					
5	PLACEMENT ACCORDING TO TECHNICAL SPECIFICATIONS	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU SEZÉQUEL

Denis J. Coulombe

Rev Eric Myrand

SIGNATURE

Mathieu Sezequel

Denis J. Coulombe

Rev Eric Myrand

DATE

2018-08-18

2018-08-18

2018-08-18

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309
DOCUMENT #: 20180818-NS-03
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: 2018-08-18
TIME: 5:05
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: FINE FILTER
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station <u>0+135 to 0+209</u>	Station: <u>0+230 to 0+260</u>	
Inclination: <u>1.5H:1V</u>	Details: _____	
ELEVATION : <input type="checkbox"/> varies <u>157.0</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom			✓		
4. Gradation (visual)	✓				✓
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

		<u>APPROVED BY:</u>			
ITEM		QA		QC	
		Y	N	Y	N
5	GOOD HANDLING BUT LIFT THICKNESSES EXCEED 1.5m	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHEU JÉZÉQUEL

Denis J. Coulombe

René-Éric McDermid

SIGNATURE

[Handwritten Signature]

[Handwritten Signature]

[Handwritten Signature]

DATE

2018-08-18

2018-08-18

2018-08-18

PROJECT : WTD Construction
PROJECT #: 658369
DOCUMENT #: 20180819-NS-05
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: 2018-08-19
TIME: 5:50
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Fine Filter
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station	<u>0+471 to 0+480</u>	Station: <u>0+395 to 0+435</u>
Inclination:		Details: _____
ELEVATION	<input type="checkbox"/> varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom			✓		
4. Gradation (visual)	✓		✓		✓
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction			✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTD CONSTRUCTION
PROJECT #: 658 309
DOCUMENT #: 20180820-NS-03
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: 2018-08-20
TIME: 5:55
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Fine Filter
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+772 to 0+808</u> Inclination: _____ ELEVATION : <input type="checkbox"/> varies <u>153.5</u> m	Station: _____ Details: _____

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					
4. Gradation (visual)	✓		✓		✓
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME _____

MATHEU SEZEQUEL

Denis J. Capombole

Pier-Eric McDavall

SIGNATURE

SIGNATURE
H. J. [Signature]

Dr. J. J. K. K.

Jim C. Hansen

DATE

2018-08-20

248-68-20

2018-08-20

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-20
DOCUMENT #: 20180820-NS-05 TIME: 6:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: FINE FILTER
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+495 to 0+505</u>	Station: <u>0+471 to 0+480</u>
Inclination: _____	Details: _____
ELEVATION : <input type="checkbox"/> varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTD Construction
PROJECT #: 658309
DOCUMENT #: 20180820-DS-03
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: August 20, 2018
TIME: _____
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Fine filter placement
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station: <u>0+505 to 0+540</u>	Station: <u>0+495 to 0+505</u>	
Inclination: _____	Details: _____	
ELEVATION : <input type="checkbox"/> varies <u>153.5</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/ water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTD CONSTRUCTION
PROJECT #: 658 309
DOCUMENT #: 20180821-NS-03
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: 2018-08-21
TIME: 5:15
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: FINE FILTER
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+447 to 0+490</u>	Station: <u>0+230 to 0+260</u>
Inclination: <u>1.5H:1V</u>	Details: _____
ELEVATION : <input type="checkbox"/> varies <u>157.0m</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309
DOCUMENT #: 20180821-NS-05
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift
DATE: 2018-08-21
TIME: 5:25
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: FINE FILTER
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station	<u>0+540 to 0+545</u>	Station: <u>0+505 + 540</u>
Inclination:		Details: _____
ELEVATION	<input type="checkbox"/> varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME _____

MATHIEU SEZEBOUR
Patrice Gagnon

SIGNATURE

SIGNATURE

[Handwritten signatures in blue ink]

DATE _____

2018-08-21
2018-07-21
2018-06-21

PROJECT : WTD Construction
PROJECT #: 658309
DOCUMENT #: 20180821-05-01
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: August 21, 2018
TIME: 10:00
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Fine Filter
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station <u>st 380 to st 447</u>	Station: _____	
Inclination: _____	Details: _____	
ELEVATION : <input type="checkbox"/> varies <u>157</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTD Construction
PROJECT #: 658309
DOCUMENT #: 20180821-DS-02
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: Aug. 21, 2018
TIME: 10:00
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Fill Pit
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station	<u>0+120 to 0+230</u>	Station: _____
Inclination:	_____	Details: _____
ELEVATION	<input type="checkbox"/> varies <u>157</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of <u>trench and/or pile</u> bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTD Construction
PROJECT #: 658309
DOCUMENT #: 20180821-DS-03
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: Aug 21, 2018
TIME: 10:00
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Fine filter
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station <u>0+260 to 0+330</u>	Station: _____
Inclination: _____	Details: _____
ELEVATION : <input type="checkbox"/> varies <u>15+</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓