

National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Datum: NAD 83, Map Projection: UTM Zone 9N

This drawing has been prepared for the use of Alexco Environmental Group Inc.'s client and may not be used, reproduced or relied upon by third parties, except as agreed by Alexco Environmental Group Inc. and its client, as required by law or for use of governmental reviewing agencies. Alexco Environmental Group Inc. accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without Alexco Environmental Group Inc.'s express written consent.

1:55,000 (when printed on 11 x17 inch paper)

0 1 2 3 Kilometres

- * Proposed Spoil Storage Site
- Stream Crossing Fish Bearing (Bridge)
- Stream Crossing Non Fish Bearing (Culvert)
- Station Markers
- ══ Tote Road/Proposed Access Road
- Proposed Mine Road
- Contour (20m interval)
- Watercourse
- Waterbody
- ▨ Potential Borrow Area
- Location of Proposed Mine Infrastructure
- BMC Minerals (No. 1) Ltd. Mineral Claim Areas
- Figure Index Extent



KUDZ ZE KAYAH PROJECT

**FIGURE 1
APPENDIX C-8**

FEBRUARY 2017

D:\Project\AllProjects\Kudz_Ze_Kayah\Maps\01_Overview\03-Specific\Topics\Tote_Road\ROW\Tote_rd_ROW_Index_20170222.mxd (Last edited by: amalia@shevka.22/02/2017/13:52 PM)



National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Datum: NAD 83. Map Projection: UTM Zone 9N

This drawing has been prepared for the use of Alexco Environmental Group Inc.'s client and may not be used, reproduced or relied upon by third parties, except as agreed by Alexco Environmental Group Inc. and its client as required by law or for use of governmental reviewing agencies. Alexco Environmental Group Inc. accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without Alexco Environmental Group Inc.'s express written consent.

1:3,000 (when printed on 11 x17 inch paper)

0 100 200 Metres

AEG

- * Proposed Spoil Storage Site
- Stream Crossing Fish Bearing (Bridge)
- Stream Crossing Non Fish Bearing (Culvert)
- Station Markers
- Contours (5 m Interval)
- Proposed Access Road Center Line
- 20m Existing Right of Way (Lease 105G07-001)
- 30m Proposed Right of Way
- ▨ Potential Borrow Area
- Location of Proposed Mine Infrastructure
- Map Extent

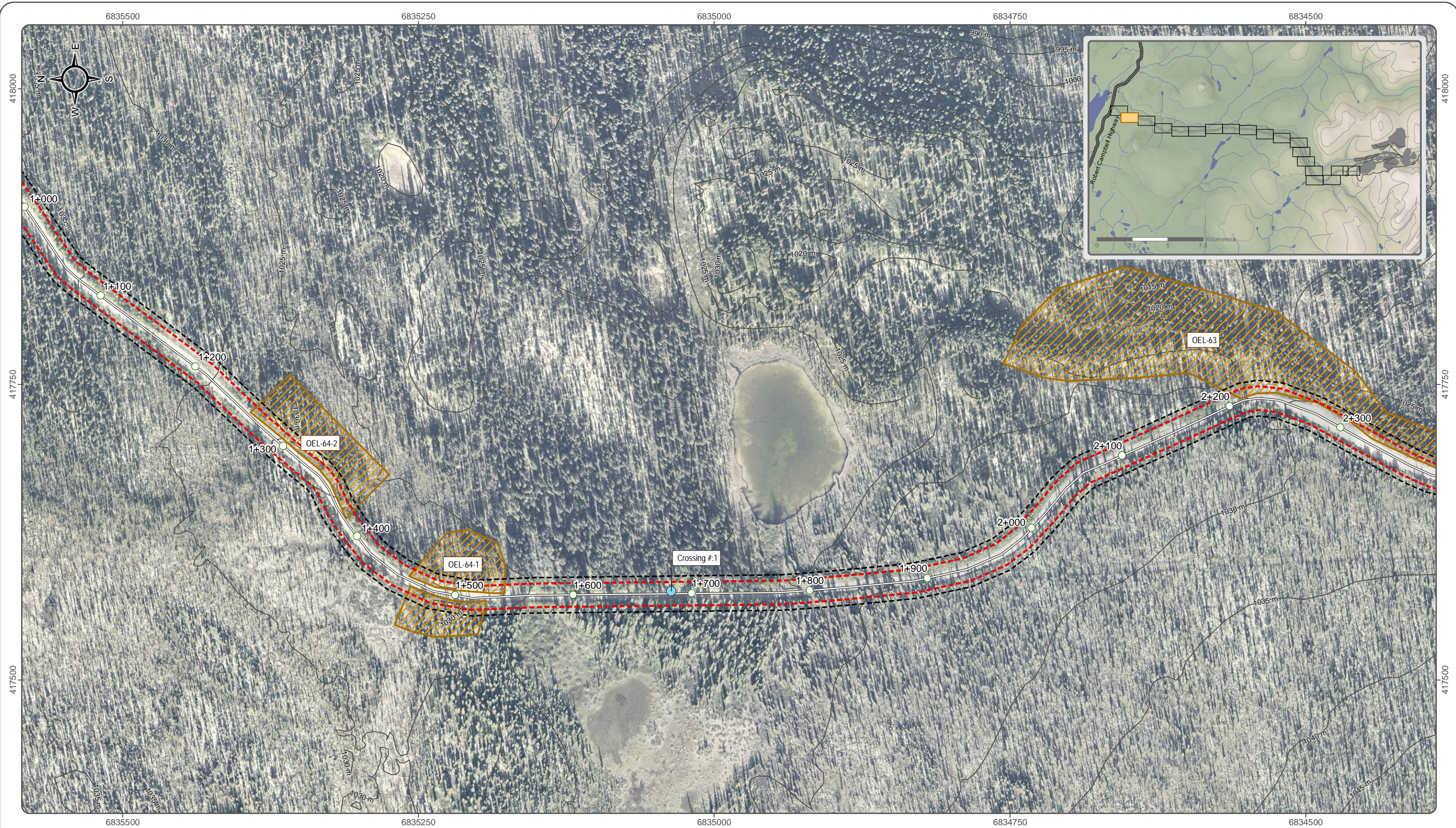


KUDZ ZE KAYAH PROJECT

**FIGURE 2
APPENDIX C-8**

FEBRUARY 2017

D:\Project\AllProjects\Kudz_Ze_Kayah\Maps\01_Overview\03-SpecificTopics\Tote_Road\ROW\Tote_rd_ROW_20170222.mxd
(Last edited by: amallashevskia, 22/02/2017 11:11 PM)



National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Datum: NAD 83. Map Projection: UTM Zone 9N

This drawing has been prepared for the use of Alexco Environmental Group Inc.'s client and may not be used, reproduced or relied upon by third parties, except as agreed by Alexco Environmental Group Inc. and its client, as required by law or for use of governmental reviewing agencies. Alexco Environmental Group Inc. accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without Alexco Environmental Group Inc.'s express written consent.

1:3,000 (when printed on 11 x17 inch paper)

0 100 200 Metres

AEG

- Proposed Spoil Storage Site
- Stream Crossing Fish Bearing (Bridge)
- Stream Crossing Non Fish Bearing (Culvert)
- Station Markers
- Contours (5 m Interval)
- Proposed Access Road Center Line
- 20m Existing Right of Way (Lease 105G07-001)
- 30m Proposed Right of Way
- Potential Borrow Area
- Location of Proposed Mine Infrastructure
- Map Extent

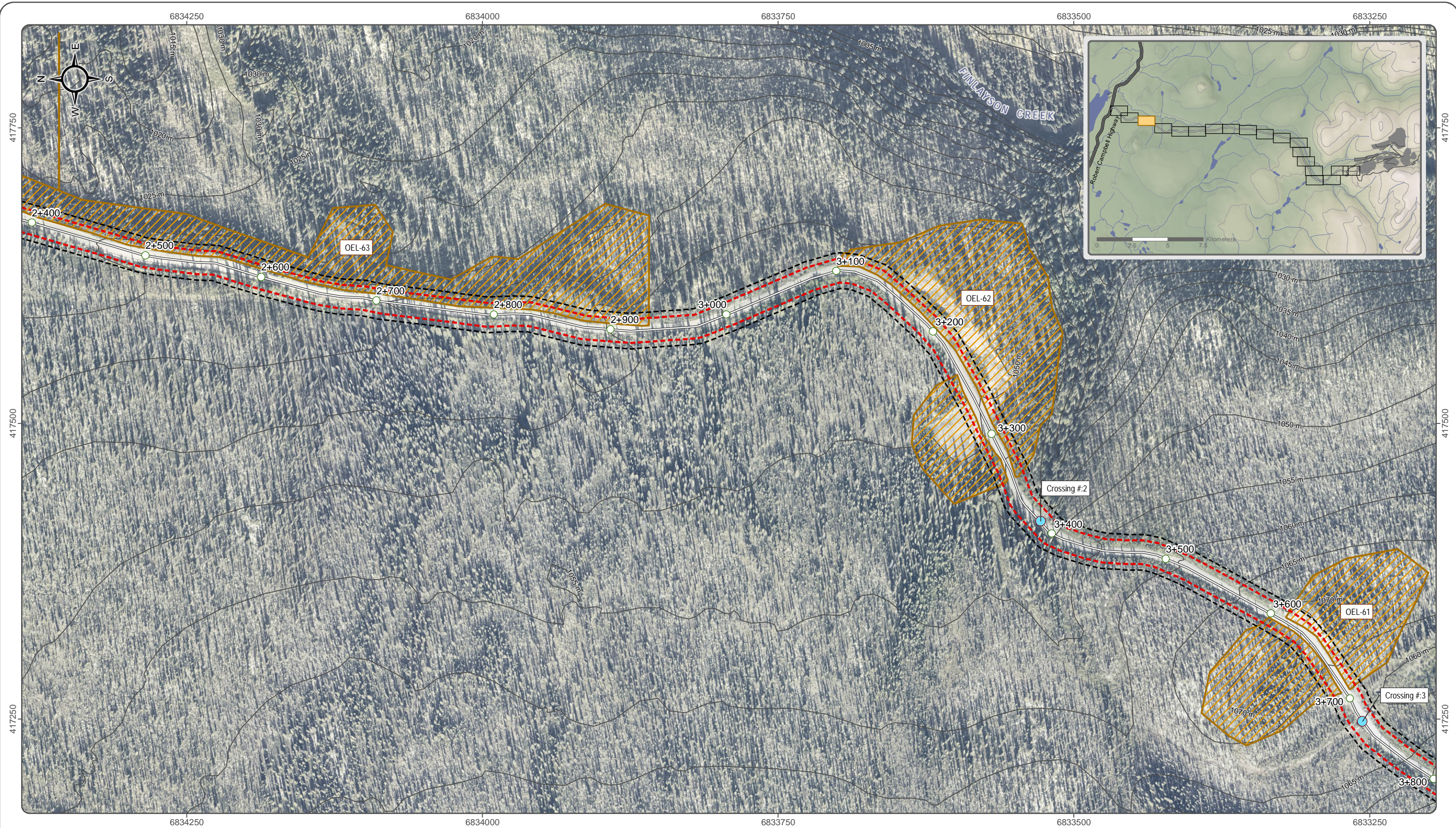


KUDZ ZE KAYAH PROJECT

FIGURE 3
APPENDIX C-8

FEBRUARY 2017

D:\Project\AllProjects\Kudz_Ze_Kayah\Maps\01_Overview\03-SpecificTopics\Tote_Road\ROW\Tote_rd_ROW_20170222.mxd
(Last edited by: amallashevskia, 22/02/2017 14:12 PM)



National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Datum: NAD 83, Map Projection: UTM Zone 9N

This drawing has been prepared for the use of Alexco Environmental Group Inc.'s client and may not be used, reproduced or relied upon by third parties, except as agreed by Alexco Environmental Group Inc. and its client as required by law or for use of governmental reviewing agencies. Alexco Environmental Group Inc. accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without Alexco Environmental Group Inc.'s express written consent.

1:3,000 (when printed on 11 x17 inch paper)

0 100 200 Metres

- * Proposed Spoil Storage Site
- Stream Crossing Fish Bearing (Bridge)
- Stream Crossing Non Fish Bearing (Culvert)
- Station Markers
- Contours (5 m Interval)
- Proposed Access Road Center Line
- 20m Existing Right of Way (Lease 105G07-001)
- 30m Proposed Right of Way
- ▨ Potential Borrow Area
- Location of Proposed Mine Infrastructure
- Map Extent



KUDZ ZE KAYAH PROJECT

FIGURE 4

APPENDIX C-8

FEBRUARY 2017

D:\Project\AllProjects\Kudz_Ze_Kayah\Maps\01_Overview\03-SpecificTopics\Tote_Road\ROW\Tote_rd_ROW_20170222.mxd
 (Last edited by: amallashevskia, 22/02/2017 14:12 PM)



National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Datum: NAD 83, Map Projection: UTM Zone 9N

This drawing has been prepared for the use of Alexco Environmental Group Inc.'s client and may not be used, reproduced or relied upon by third parties, except as agreed by Alexco Environmental Group Inc. and its client as required by law or for use of governmental reviewing agencies. Alexco Environmental Group Inc. accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without Alexco Environmental Group Inc.'s express written consent.

1:3,000 (when printed on 11 x17 inch paper)

0 100 200 Metres

- Proposed Spoil Storage Site
- Stream Crossing Fish Bearing (Bridge)
- Stream Crossing Non Fish Bearing (Culvert)
- Station Markers
- Contours (5 m Interval)
- Proposed Access Road Center Line
- 20m Existing Right of Way (Lease 105G07-001)
- 30m Proposed Right of Way
- Potential Borrow Area
- Location of Proposed Mine Infrastructure
- Map Extent

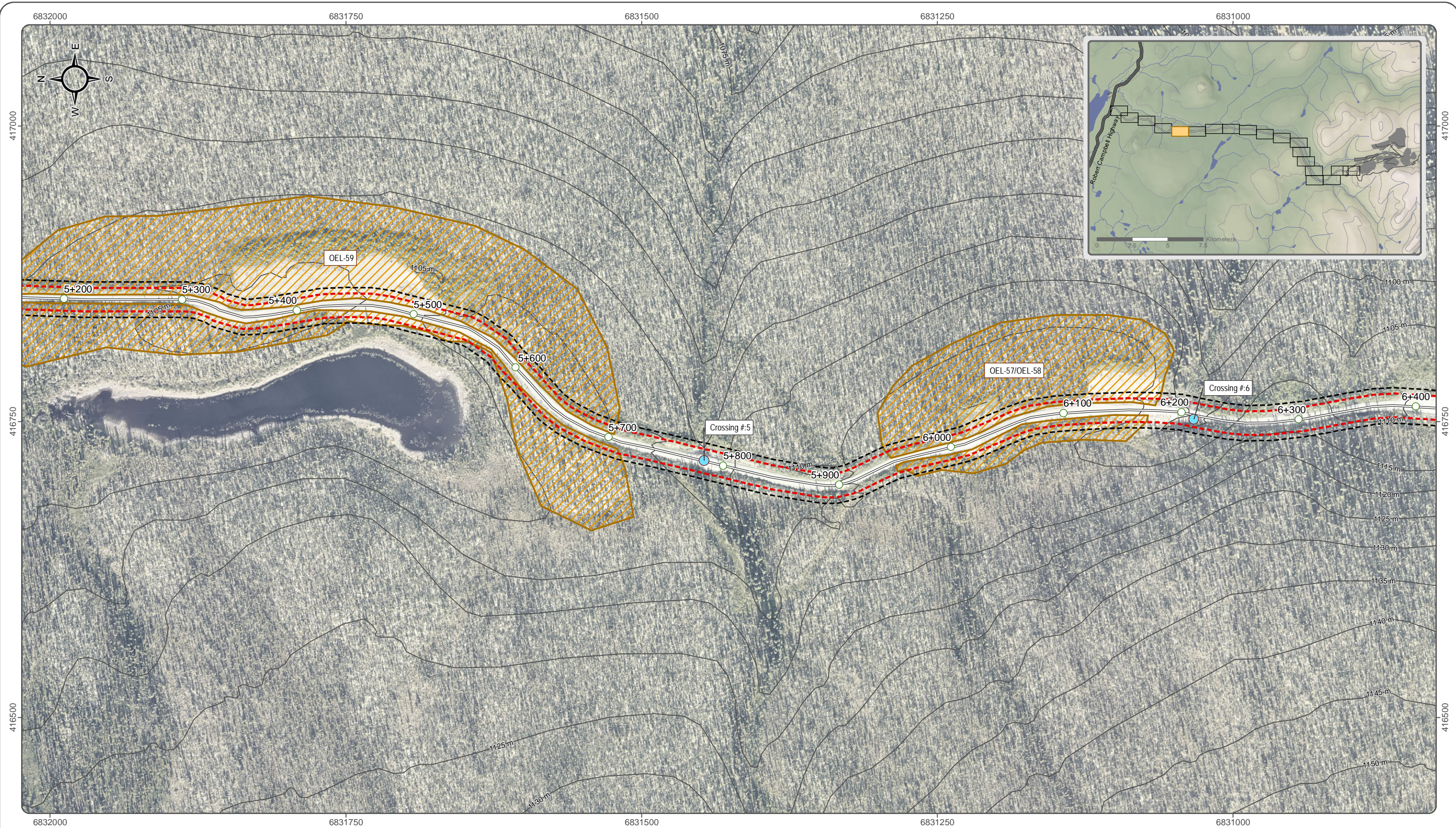


KUDZ ZE KAYAH PROJECT

FIGURE 5
APPENDIX C-8

FEBRUARY 2017

D:\Project\AllProjects\Kudz_Ze_Kayah\Maps\01_Overview\03-SpecificTopics\Tote_Road\ROW\Tote_rd_ROW_20170222.mxd
(Last edited by: amallashevska:22/02/2017/14:12:PM)



National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Datum: NAD 83. Map Projection: UTM Zone 9N

This drawing has been prepared for the use of Alexco Environmental Group Inc.'s client and may not be used, reproduced or relied upon by third parties, except as agreed by Alexco Environmental Group Inc. and its client as required by law or for use of governmental reviewing agencies. Alexco Environmental Group Inc. accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without Alexco Environmental Group Inc.'s express written consent.

1:3,000 (when printed on 11 x17 inch paper)

0 100 200 Metres

- Proposed Spoil Storage Site
- Stream Crossing Fish Bearing (Bridge)
- Stream Crossing Non Fish Bearing (Culvert)
- Station Markers
- Contours (5 m Interval)
- Proposed Access Road Center Line
- 20m Existing Right of Way (Lease 105G07-001)
- 30m Proposed Right of Way
- Potential Borrow Area
- Location of Proposed Mine Infrastructure
- Map Extent

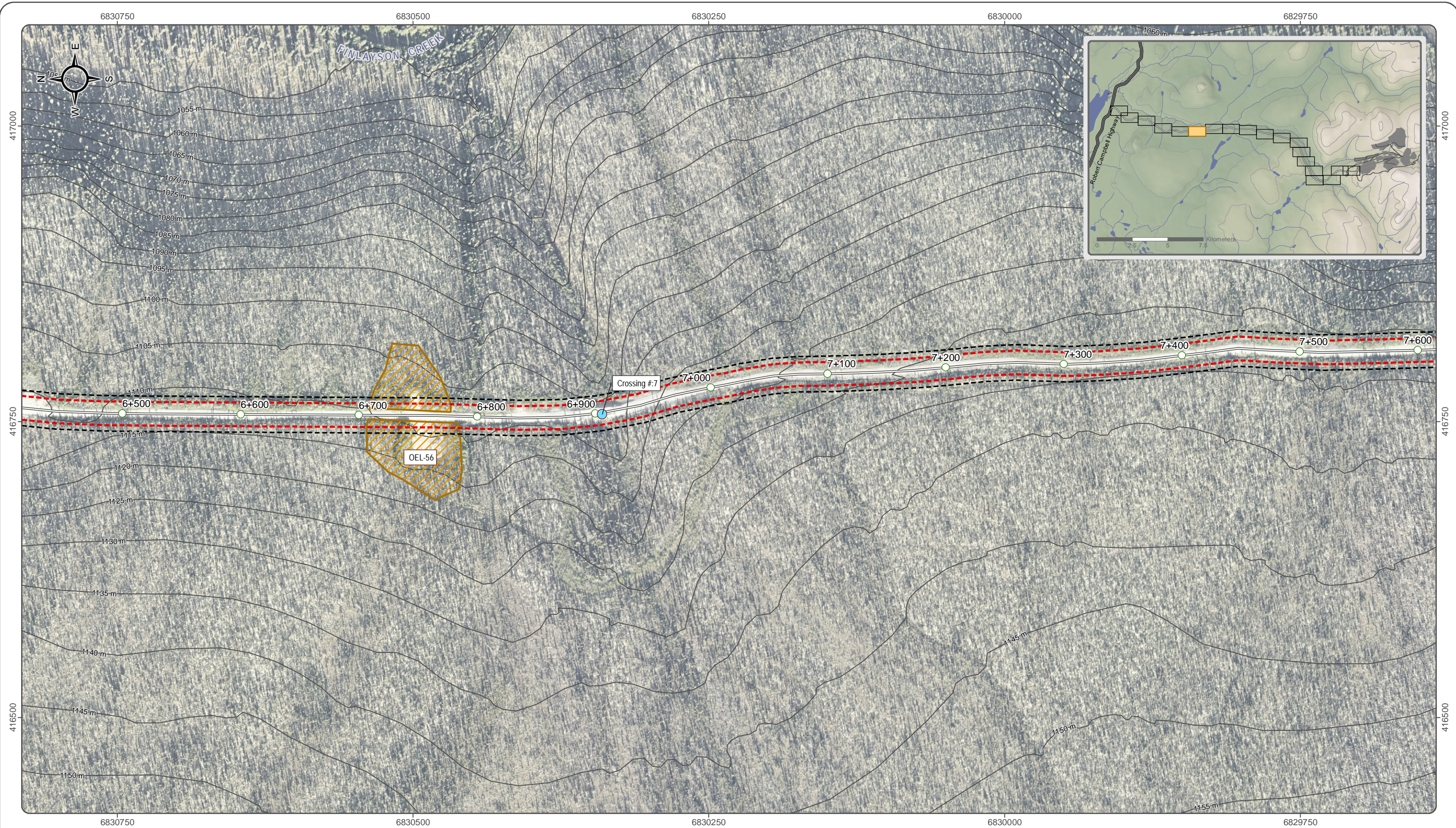


KUDZ ZE KAYAH PROJECT

FIGURE 6
APPENDIX C-8

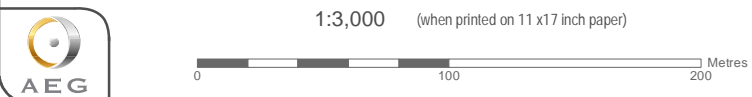
FEBRUARY 2017

D:\Project\AllProjects\Kudz_Ze_Kayah\Maps\01_Overview\03-SpecificTopics\Tote_Road\ROW\Tote_rd_ROW_20170222.mxd
(Last edited by: amallashevskia, 22/02/2017 14:12 PM)



National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Datum: NAD 83. Map Projection: UTM Zone 9N
 This drawing has been prepared for the use of Alexco Environmental Group Inc.'s client and may not be used, reproduced or relied upon by third parties, except as agreed by Alexco Environmental Group Inc. and its client as required by law or for use of governmental reviewing agencies. Alexco Environmental Group Inc. accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without Alexco Environmental Group Inc.'s express written consent.



- Proposed Spoil Storage Site
- Stream Crossing Fish Bearing (Bridge)
- Stream Crossing Non Fish Bearing (Culvert)
- Station Markers
- Contours (5 m Interval)
- Proposed Access Road Center Line
- 20m Existing Right of Way (Lease 105G07-001)
- 30m Proposed Right of Way
- Potential Borrow Area
- Location of Proposed Mine Infrastructure
- Map Extent

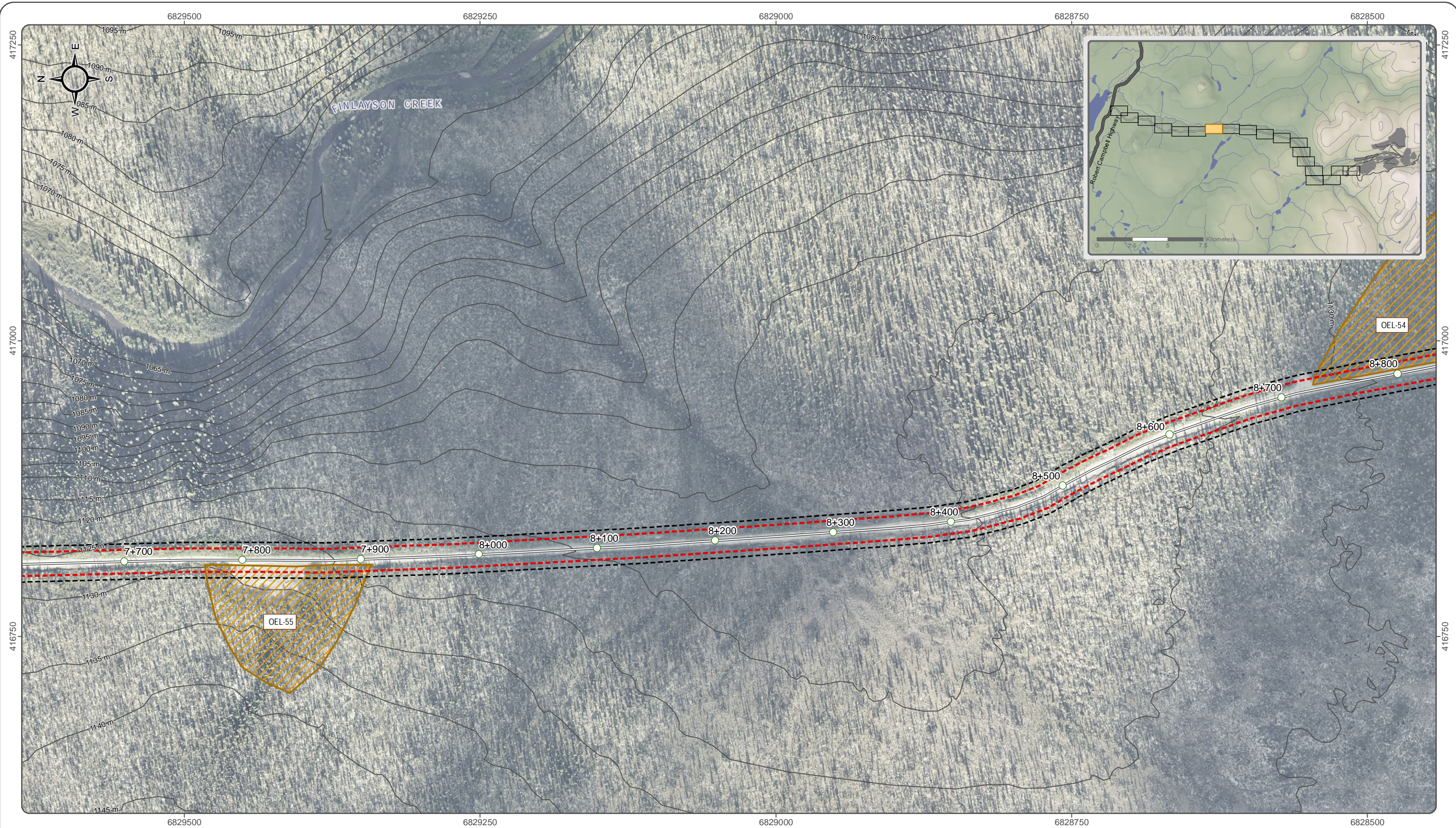


KUDZ ZE KAYAH PROJECT

**FIGURE 7
APPENDIX C-8**

FEBRUARY 2017

D:\Project\AllProjects\Kudz_Ze_Kayah\Maps\01_Overview\03-SpecificTopics\Tote_Road\ROW\Tote_rd_ROW_20170222.mxd
 (Last edited by: amallashevskia, 22/02/2017 14:12 PM)



National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Datum: NAD 83. Map Projection: UTM Zone 9N

This drawing has been prepared for the use of Alexco Environmental Group Inc.'s client and may not be used, reproduced or relied upon by third parties, except as agreed by Alexco Environmental Group Inc. and its client as required by law or for use of governmental reviewing agencies. Alexco Environmental Group Inc. accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without Alexco Environmental Group Inc.'s express written consent.

1:3,000 (when printed on 11 x17 inch paper)

0 100 200 Metres

- Proposed Spoil Storage Site
- Stream Crossing Fish Bearing (Bridge)
- Stream Crossing Non Fish Bearing (Culvert)
- Station Markers
- Contours (5 m Interval)
- Proposed Access Road Center Line
- 20m Existing Right of Way (Lease 105G07-001)
- 30m Proposed Right of Way
- Potential Borrow Area
- Location of Proposed Mine Infrastructure
- Map Extent

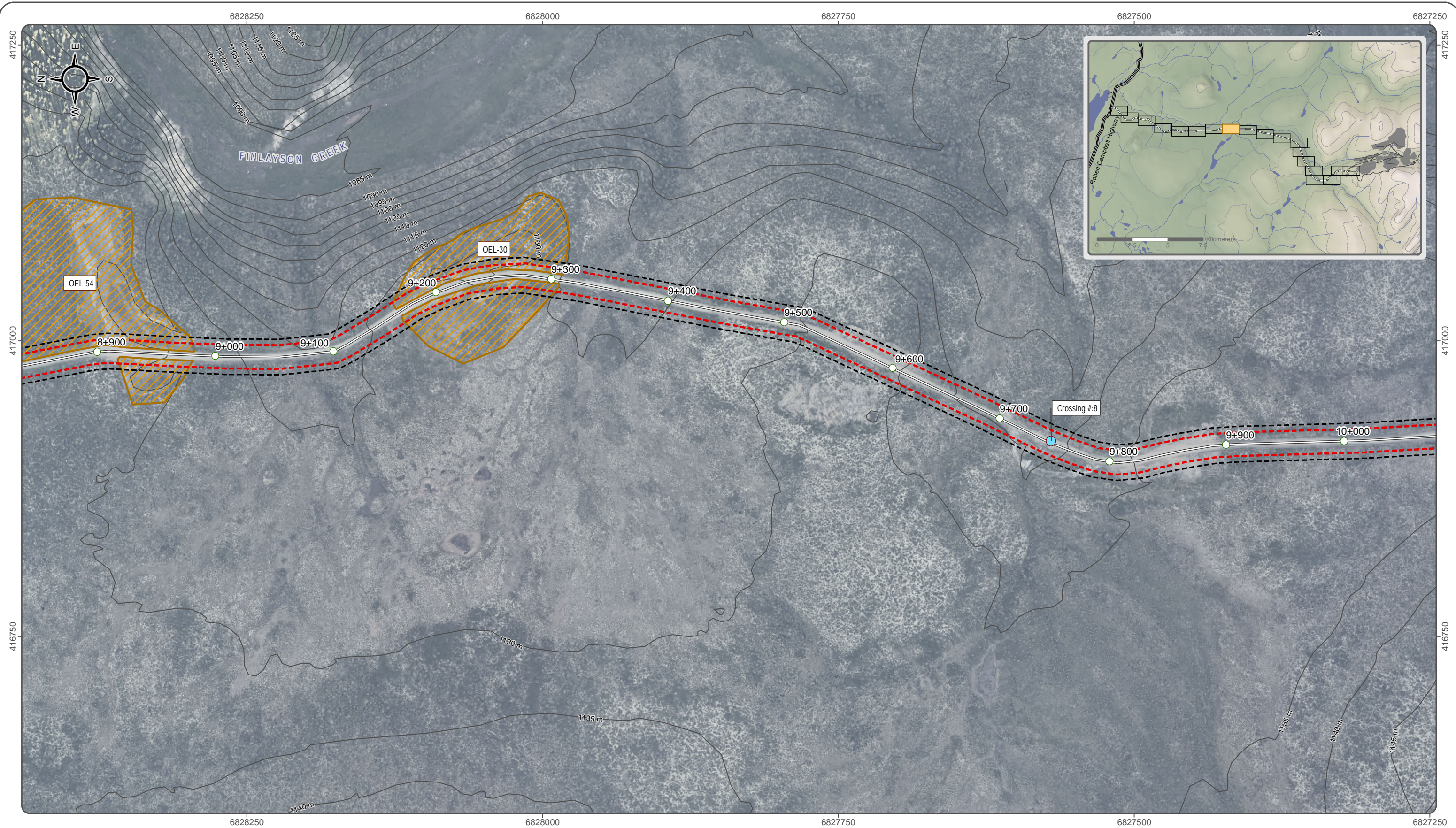


KUDZ ZE KAYAH PROJECT

FIGURE 8
APPENDIX C-8

FEBRUARY 2017

D:\Project\AllProjects\Kudz_Ze_Kayah\Maps\01_Overview\03-SpecificTopics\Tote_Road\ROW\Tote_rd_ROW_20170222.mxd
(Last edited by: amallashevskia; 22/02/2017 11:13 PM)



National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Datum: NAD 83, Map Projection: UTM Zone 9N

This drawing has been prepared for the use of Alexco Environmental Group Inc.'s client and may not be used, reproduced or relied upon by third parties, except as agreed by Alexco Environmental Group Inc. and its client, as required by law or for use of governmental reviewing agencies. Alexco Environmental Group Inc. accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without Alexco Environmental Group Inc.'s express written consent.

1:3,000 (when printed on 11 x17 inch paper)

0 100 200 Metres

- Proposed Spoil Storage Site
- Stream Crossing Fish Bearing (Bridge)
- Stream Crossing Non Fish Bearing (Culvert)
- Station Markers
- Contours (5 m Interval)
- Proposed Access Road Center Line
- 20m Existing Right of Way (Lease 105G07-001)
- 30m Proposed Right of Way
- Potential Borrow Area
- Location of Proposed Mine Infrastructure
- Map Extent

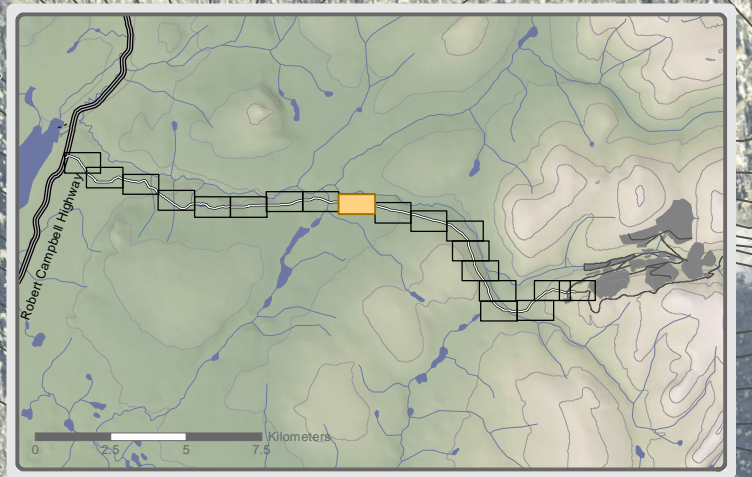
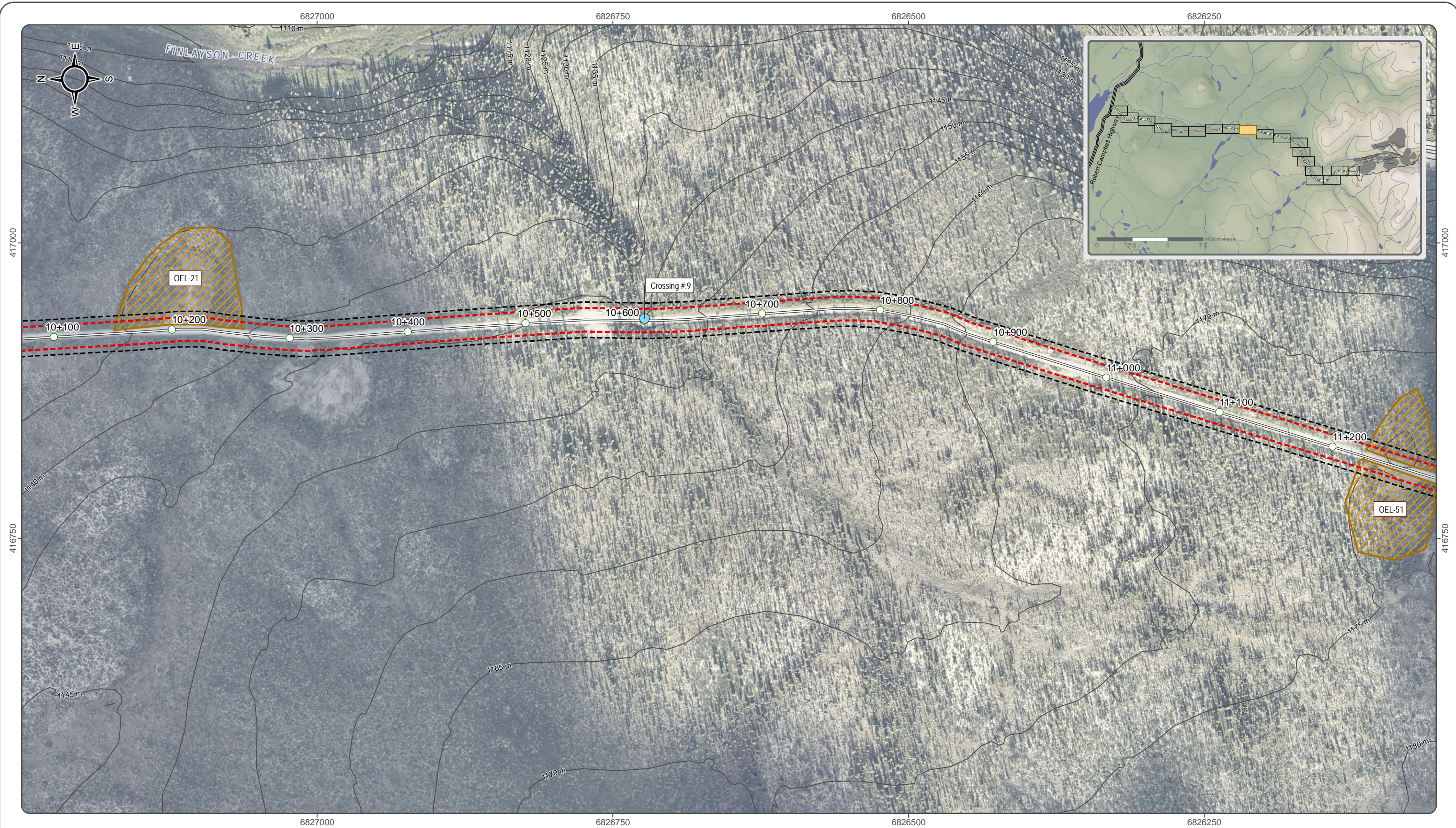


KUDZ ZE KAYAH PROJECT

FIGURE 9
APPENDIX C-8

FEBRUARY 2017

D:\Project\AllProjects\Kudz_Ze_Kayah\Maps\01_Overview\03-SpecificTopics\Tote_Road\ROW\Tote_rd_ROW_20170222.mxd
(Last edited by: amallashevskia, 22/02/2017 11:14:13 PM)



National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Datum: NAD 83, Map Projection: UTM Zone 9N

This drawing has been prepared for the use of Alexco Environmental Group Inc.'s client and may not be used, reproduced or relied upon by third parties, except as agreed by Alexco Environmental Group Inc. and its client as required by law or for use of governmental reviewing agencies. Alexco Environmental Group Inc. accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without Alexco Environmental Group Inc.'s express written consent.

1:3,000 (when printed on 11 x17 inch paper)

0 100 200 Metres

- Proposed Spoil Storage Site
- Stream Crossing Fish Bearing (Bridge)
- Stream Crossing Non Fish Bearing (Culvert)
- Station Markers
- Contours (5 m Interval)
- Proposed Access Road Center Line
- 20m Existing Right of Way (Lease 105G07-001)
- 30m Proposed Right of Way
- Potential Borrow Area
- Location of Proposed Mine Infrastructure
- Map Extent

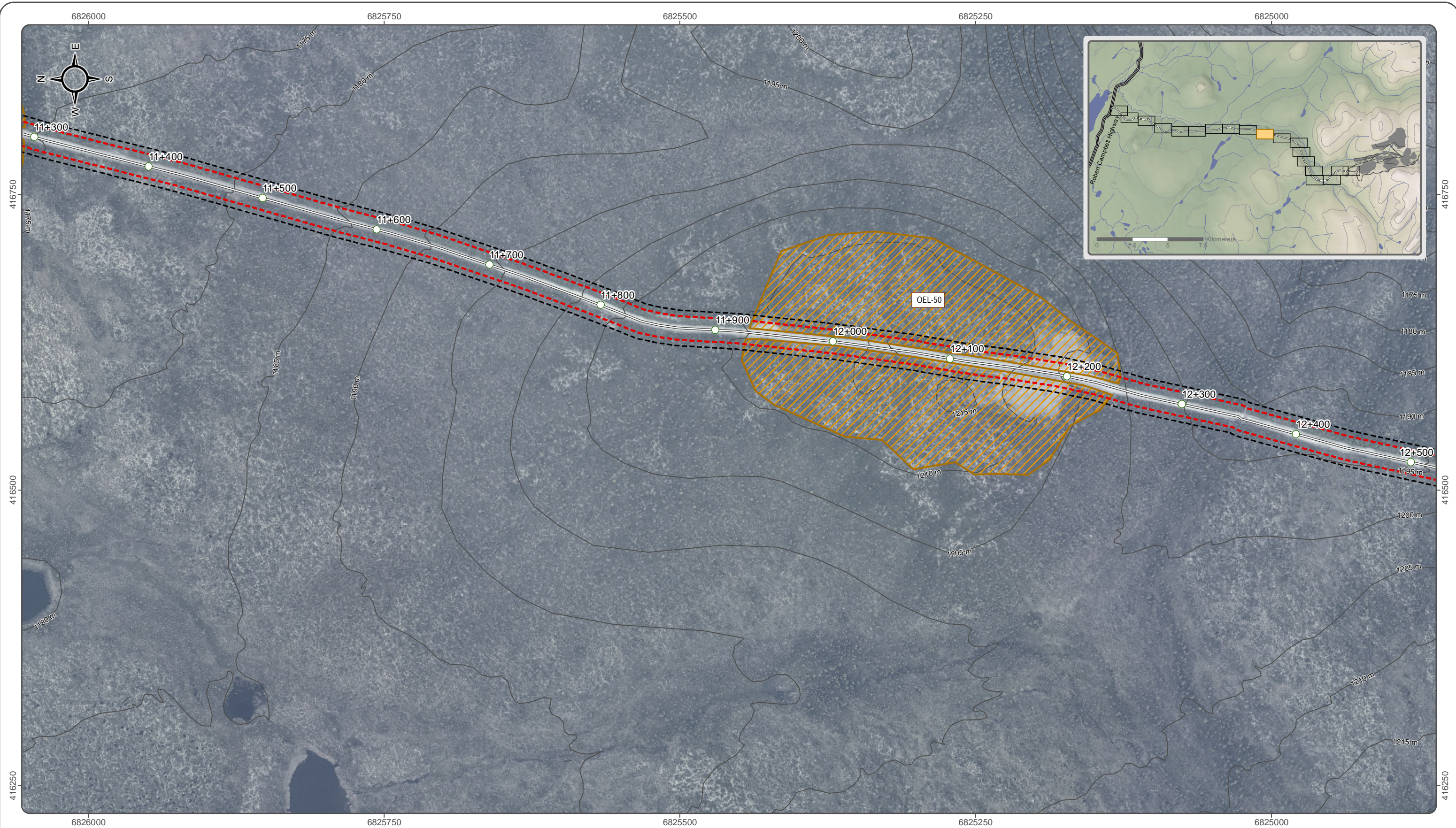


KUDZ ZE KAYAH PROJECT

**FIGURE 10
APPENDIX C-8**

FEBRUARY 2017

D:\Project\AllProjects\Kudz_Ze_Kayah\Maps\01_Overview\03-SpecificTopics\Tote_Road\ROW\Tote_rd_ROW_20170222.mxd
(Last edited by: amallashevskia, 22/02/2017 14:13 PM)



National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Datum: NAD 83. Map Projection: UTM Zone 9N

This drawing has been prepared for the use of Alexco Environmental Group Inc.'s client and may not be used, reproduced or relied upon by third parties, except as agreed by Alexco Environmental Group Inc. and its client as required by law or for use of governmental reviewing agencies. Alexco Environmental Group Inc. accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without Alexco Environmental Group Inc.'s express written consent.

1:3,000 (when printed on 11 x17 inch paper)

0 100 200 Metres

AEG

- Proposed Spoil Storage Site
- Stream Crossing Fish Bearing (Bridge)
- Stream Crossing Non Fish Bearing (Culvert)
- Station Markers
- Contours (5 m Interval)
- Proposed Access Road Center Line
- 20m Existing Right of Way (Lease 105G07-001)
- 30m Proposed Right of Way
- Potential Borrow Area
- Location of Proposed Mine Infrastructure
- Map Extent

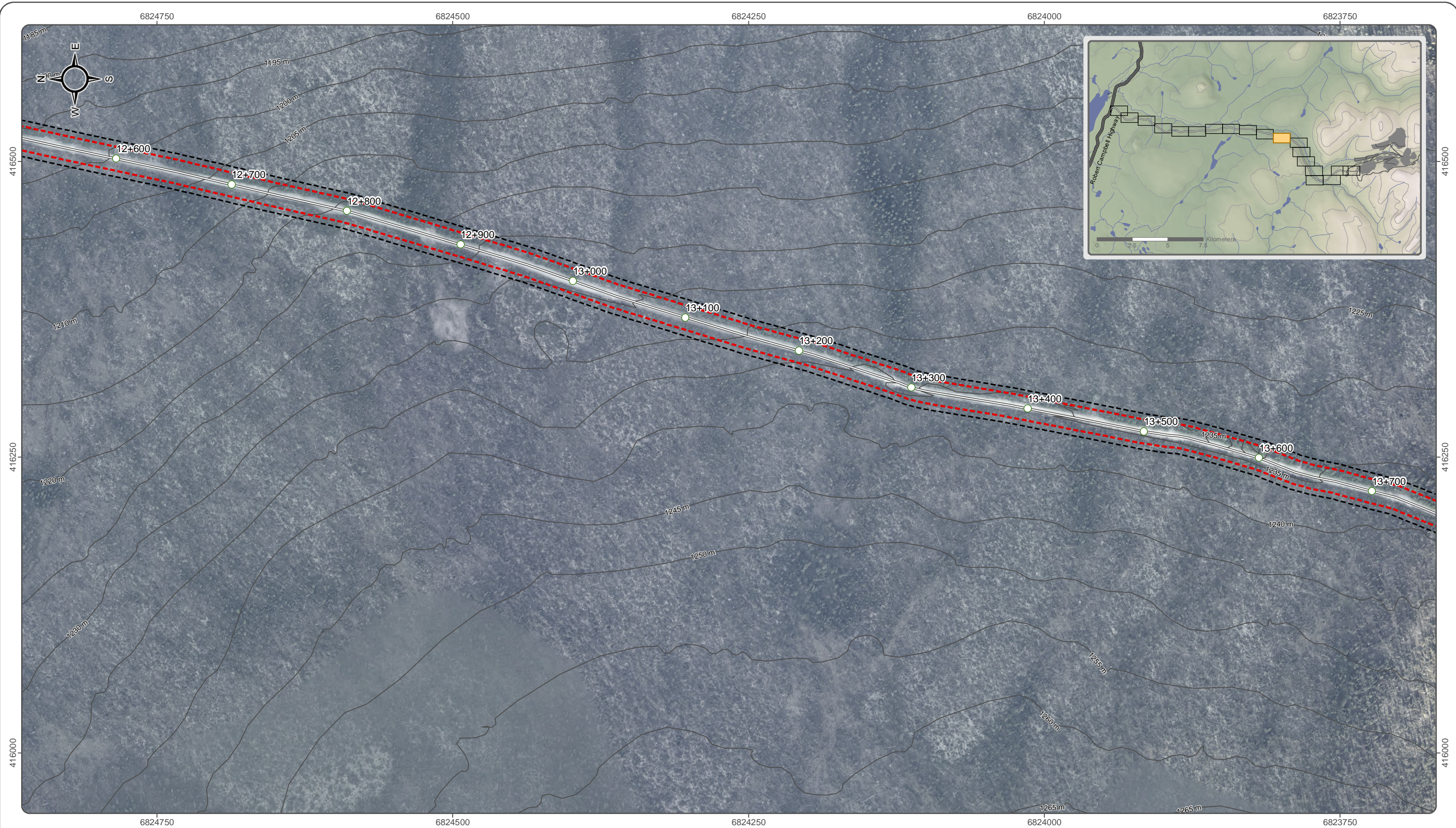


KUDZ ZE KAYAH PROJECT

FIGURE 11
APPENDIX C-8

FEBRUARY 2017

D:\Project\AllProjects\Kudz_Ze_Kayah\Maps\01_Overview\03-SpecificTopics\Tote_Road\ROW\Tote_rd_ROW_20170222.mxd
(Last edited by: amallashevska:22/02/2017/14:13:PM)



National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Datum: NAD 83, Map Projection: UTM Zone 9N

This drawing has been prepared for the use of Alexco Environmental Group Inc.'s client and may not be used, reproduced or relied upon by third parties, except as agreed by Alexco Environmental Group Inc. and its client, as required by law or for use of governmental reviewing agencies. Alexco Environmental Group Inc. accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without Alexco Environmental Group Inc.'s express written consent.

1:3,000 (when printed on 11 x 17 inch paper)

0 100 200 Metres

- Proposed Spoil Storage Site
- Stream Crossing Fish Bearing (Bridge)
- Stream Crossing Non Fish Bearing (Culvert)
- Station Markers
- Contours (5 m Interval)
- Proposed Access Road Center Line
- 20m Existing Right of Way (Lease 105G07-001)
- 30m Proposed Right of Way
- Potential Borrow Area
- Location of Proposed Mine Infrastructure
- Map Extent



KUDZ ZE KAYAH PROJECT

**FIGURE 12
APPENDIX C-8**

FEBRUARY 2017

D:\Project\AllProjects\Kudz_Ze_Kayah\Maps\01_Overview\03-SpecificTopics\Tote_Road\ROW\Tote_rd_ROW_20170222.mxd
(Last edited by: amallashevska:22/02/2017/14:13:PM)



National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Datum: NAD 83; Map Projection: UTM Zone 9N

This drawing has been prepared for the use of Alexco Environmental Group Inc.'s client and may not be used, reproduced or relied upon by third parties, except as agreed by Alexco Environmental Group Inc. and its client as required by law or for use of governmental reviewing agencies. Alexco Environmental Group Inc. accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without Alexco Environmental Group Inc.'s express written consent.

1:3,000 (when printed on 11 x17 inch paper)

0 100 200 Metres

- Proposed Spoil Storage Site
- Stream Crossing Fish Bearing (Bridge)
- Stream Crossing Non Fish Bearing (Culvert)
- Station Markers
- Contours (5 m Interval)
- Proposed Access Road Center Line
- 20m Existing Right of Way (Lease 105G07-001)
- 30m Proposed Right of Way
- Potential Borrow Area
- Location of Proposed Mine Infrastructure
- Map Extent



KUDZ ZE KAYAH PROJECT

FIGURE 13
APPENDIX C-8

FEBRUARY 2017

D:\Project\AllProjects\Kudz_Ze_Kayah\Maps\01_Overview\03-SpecificTopics\Tote_Road\ROW\Tote_rd_ROW_20170222.mxd
(Last edited by: amallashevskia; 22/02/2017 14:14 PM)

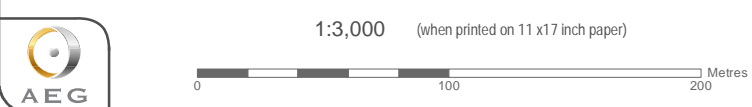
6823250 6823000 6822750 6822500



National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Datum: NAD 83, Map Projection: UTM Zone 9N

This drawing has been prepared for the use of Alexco Environmental Group Inc.'s client and may not be used, reproduced or relied upon by third parties, except as agreed by Alexco Environmental Group Inc. and its client as required by law or for use of governmental reviewing agencies. Alexco Environmental Group Inc. accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without Alexco Environmental Group Inc.'s express written consent.



- Proposed Spoil Storage Site
- Stream Crossing Fish Bearing (Bridge)
- Stream Crossing Non Fish Bearing (Culvert)
- Station Markers
- Contours (5 m Interval)
- Proposed Access Road Center Line
- 20m Existing Right of Way (Lease 105G07-001)
- 30m Proposed Right of Way
- Potential Borrow Area
- Location of Proposed Mine Infrastructure
- Map Extent



KUDZ ZE KAYAH PROJECT

**FIGURE 14
APPENDIX C-8**

FEBRUARY 2017

D:\Project\AllProjects\Kudz_Ze_Kayah\Maps\01_Overview\03-SpecificTopics\Tote_Road\ROW\Tote_rd_ROW_20170222.mxd
(Last edited by: amallashevskia, 22/02/2017 14:14 PM)



National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Datum: NAD 83. Map Projection: UTM Zone 9N

This drawing has been prepared for the use of Alexco Environmental Group Inc.'s client and may not be used, reproduced or relied upon by third parties, except as agreed by Alexco Environmental Group Inc. and its client as required by law or for use of governmental reviewing agencies. Alexco Environmental Group Inc. accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without Alexco Environmental Group Inc.'s express written consent.

1:3,000 (when printed on 11 x17 inch paper)

0 100 200 Metres

- 20m Existing Right of Way (Lease 105G07-001)
- 30m Proposed Right of Way
- Potential Borrow Area
- Location of Proposed Mine Infrastructure
- Map Extent
- Stream Crossing Fish Bearing (Bridge)
- Stream Crossing Non Fish Bearing (Culvert)
- Station Markers
- Contours (5 m Interval)
- Proposed Access Road Center Line
- Proposed Spoil Storage Site

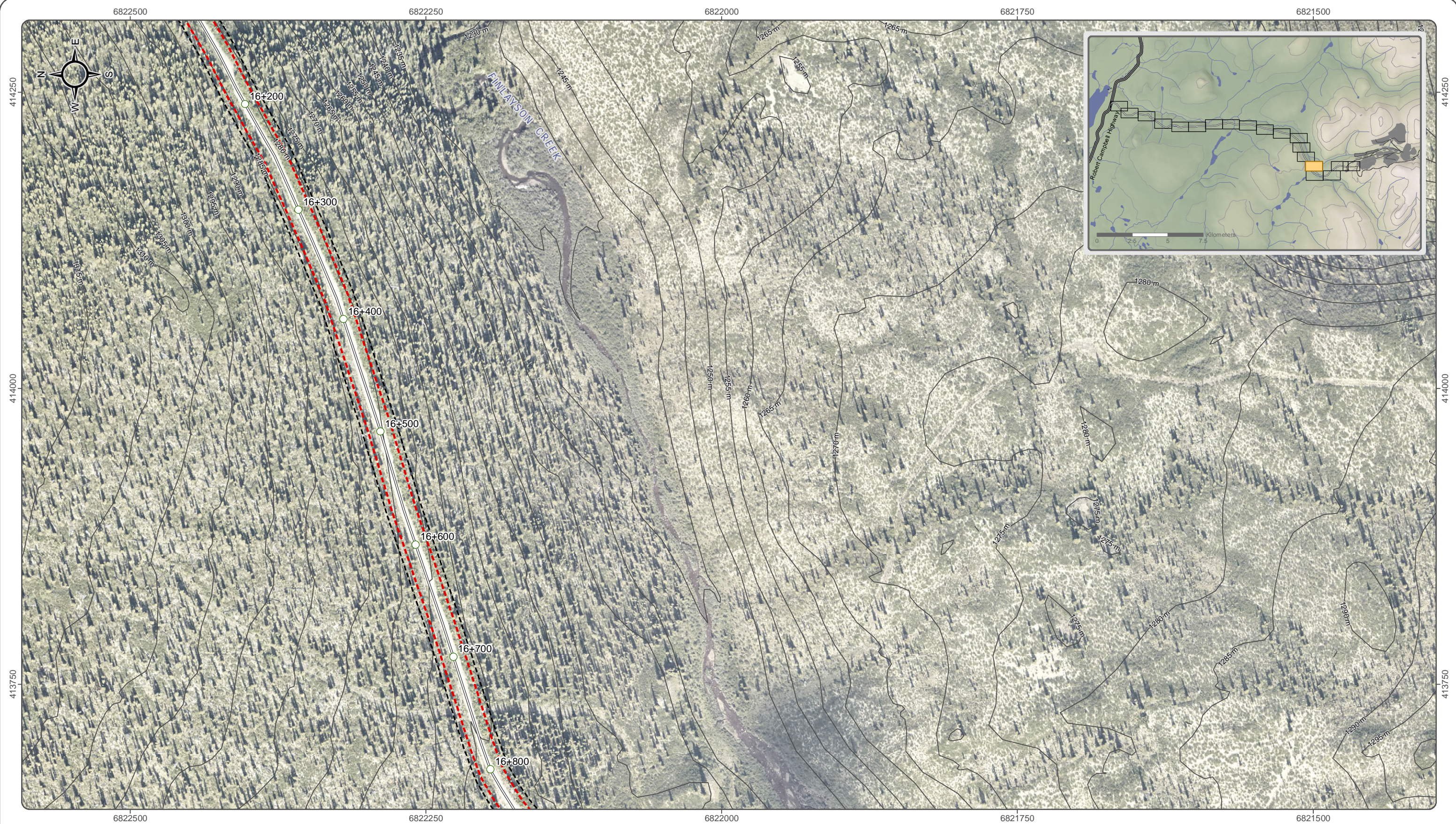


KUDZ ZE KAYAH PROJECT

FIGURE 15
APPENDIX C-8

FEBRUARY 2017

D:\Project\AllProjects\Kudz_Ze_Kayah\Maps\01_Overview\03-SpecificTopics\Tote_Road\ROW\Tote_rd_ROW_20170222.mxd
(Last edited by: amallashevskia:22/02/2017/14:14 PM)



National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Datum: NAD 83. Map Projection: UTM Zone 9N

This drawing has been prepared for the use of Alexco Environmental Group Inc.'s client and may not be used, reproduced or relied upon by third parties, except as agreed by Alexco Environmental Group Inc. and its client as required by law or for use of governmental reviewing agencies. Alexco Environmental Group Inc. accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without Alexco Environmental Group Inc.'s express written consent.

1:3,000 (when printed on 11 x17 inch paper)

0 100 200 Metres

- Proposed Spoil Storage Site
- Stream Crossing Fish Bearing (Bridge)
- Stream Crossing Non Fish Bearing (Culvert)
- Station Markers
- Contours (5 m Interval)
- Proposed Access Road Center Line
- 20m Existing Right of Way (Lease 105G07-001)
- 30m Proposed Right of Way
- Potential Borrow Area
- Location of Proposed Mine Infrastructure
- Map Extent

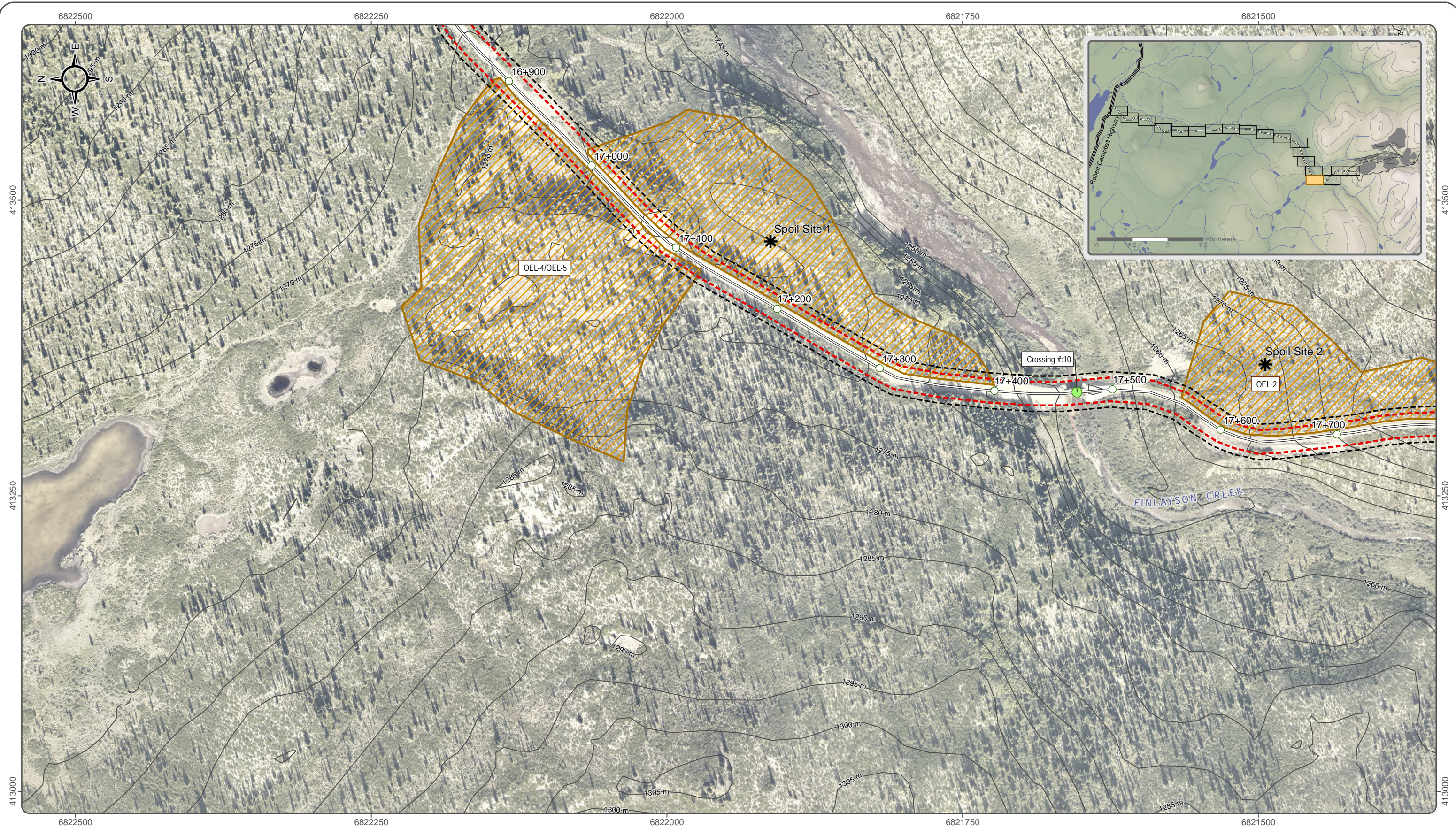


KUDZ ZE KAYAH PROJECT

FIGURE 16
APPENDIX C-8

FEBRUARY 2017

D:\Project\AllProjects\Kudz_Ze_Kayah\Maps\01_Overview\03-SpecificTopics\Tote_Road\ROW\Tote_rd_ROW_20170222.mxd
(Last edited by: amallashevska:22/02/2017/14:14 PM)



National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Datum: NAD 83. Map Projection: UTM Zone 9N

This drawing has been prepared for the use of Alexco Environmental Group Inc.'s client and may not be used, reproduced or relied upon by third parties, except as agreed by Alexco Environmental Group Inc. and its client as required by law or for use of governmental reviewing agencies. Alexco Environmental Group Inc. accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without Alexco Environmental Group Inc.'s express written consent.

1:3,000 (when printed on 11 x17 inch paper)

0 100 200 Metres

- ✱ Proposed Spoil Storage Site
- Stream Crossing Fish Bearing (Bridge)
- Stream Crossing Non Fish Bearing (Culvert)
- Station Markers
- Contours (5 m Interval)
- Proposed Access Road Center Line
- 20m Existing Right of Way (Lease 105G07-001)
- 30m Proposed Right of Way
- Potential Borrow Area
- Location of Proposed Mine Infrastructure
- Map Extent

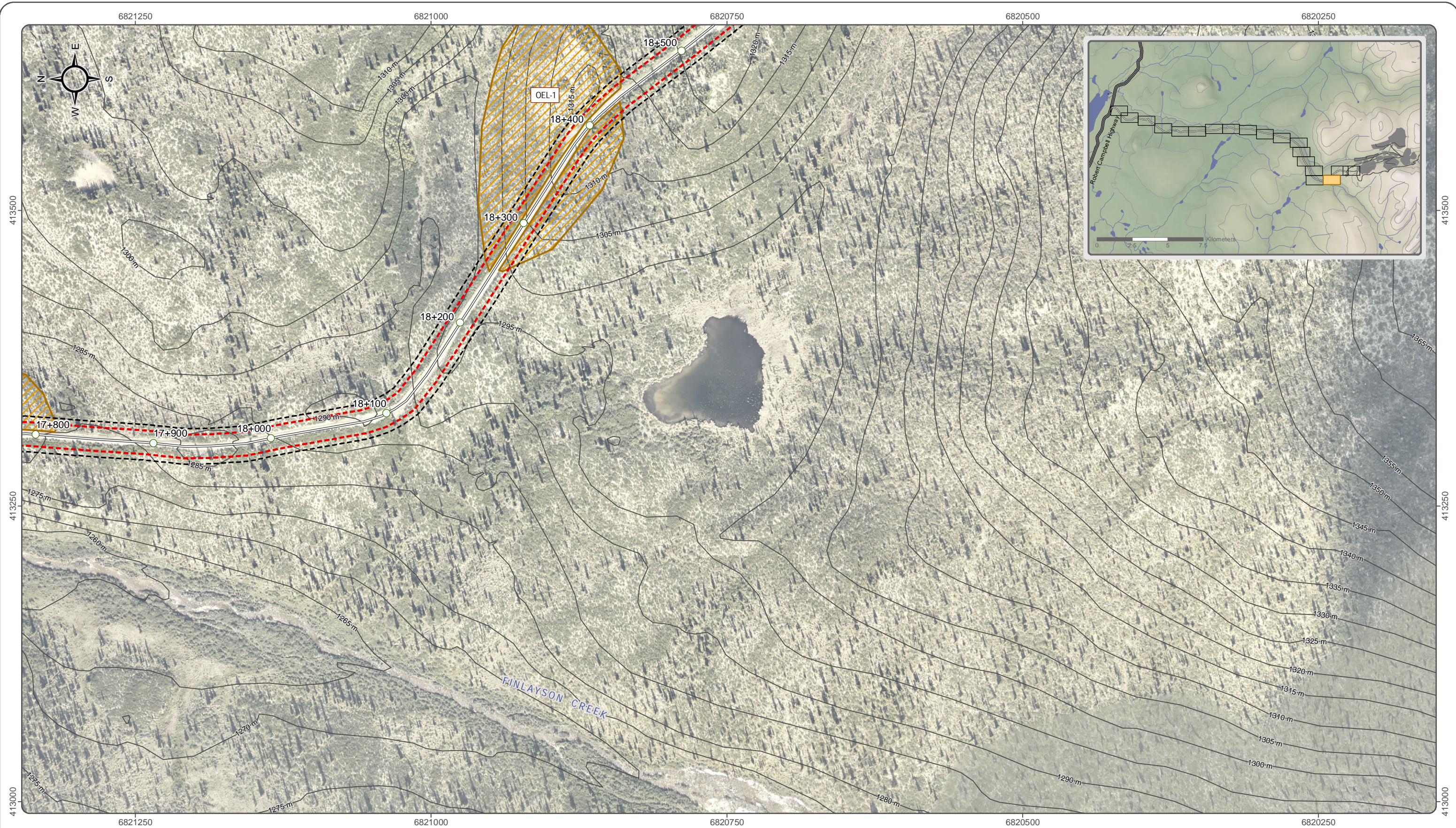


KUDZ ZE KAYAH PROJECT

**FIGURE 17
APPENDIX C-8**

FEBRUARY 2017

D:\Project\AllProjects\Kudz_Ze_Kayah\Maps\01_Overview\03-SpecificTopics\Tote_Road\ROW\Tote_rd_ROW_20170222.mxd
(Last edited by: amallashevska:22/02/2017/14:15:PM)



National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Datum: NAD 83. Map Projection: UTM Zone 9N

This drawing has been prepared for the use of Alexco Environmental Group Inc.'s client and may not be used, reproduced or relied upon by third parties, except as agreed by Alexco Environmental Group Inc. and its client as required by law or for use of governmental reviewing agencies. Alexco Environmental Group Inc. accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without Alexco Environmental Group Inc.'s express written consent.

1:3,000 (when printed on 11 x17 inch paper)

0 100 200 Metres

- Proposed Spoil Storage Site
- Stream Crossing Fish Bearing (Bridge)
- Stream Crossing Non Fish Bearing (Culvert)
- Station Markers
- Contours (5 m Interval)
- Proposed Access Road Center Line
- 20m Existing Right of Way (Lease 105G07-001)
- 30m Proposed Right of Way
- Potential Borrow Area
- Location of Proposed Mine Infrastructure
- Map Extent



KUDZ ZE KAYAH PROJECT

FIGURE 18
APPENDIX C-8

FEBRUARY 2017

D:\Project\AllProjects\Kudz_Ze_Kayah\Maps\01_Overview\03-SpecificTopics\Tote_Road\ROW\Tote_rd_ROW_20170222.mxd
(Last edited by: amallashevskia, 22/02/2017 14:15:PM)



National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Datum: NAD 83. Map Projection: UTM Zone 9N

This drawing has been prepared for the use of Alexco Environmental Group Inc.'s client and may not be used, reproduced or relied upon by third parties, except as agreed by Alexco Environmental Group Inc. and its client as required by law or for use of governmental reviewing agencies. Alexco Environmental Group Inc. accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without Alexco Environmental Group Inc.'s express written consent.

1:3,000 (when printed on 11 x17 inch paper)

0 100 200 Metres

- Proposed Spoil Storage Site
- Stream Crossing Fish Bearing (Bridge)
- Stream Crossing Non Fish Bearing (Culvert)
- Station Markers
- Contours (5 m Interval)
- Proposed Access Road Center Line
- 20m Existing Right of Way (Lease 105G07-001)
- 30m Proposed Right of Way
- Potential Borrow Area
- Location of Proposed Mine Infrastructure
- Map Extent



KUDZ ZE KAYAH PROJECT

**FIGURE 19
APPENDIX C-8**

FEBRUARY 2017

D:\Project\AllProjects\Kudz_Ze_Kayah\Maps\01_Overview\03-SpecificTopics\Tote_Road\ROW\Tote_rd_ROW_20170222.mxd
(Last edited by: amallashevskaja, 22/02/2017 14:15:PM)



National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

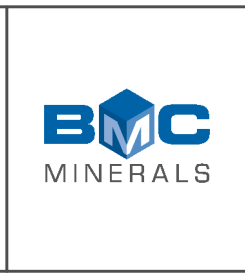
Datum: NAD 83, Map Projection: UTM Zone 9N

This drawing has been prepared for the use of Alexco Environmental Group Inc.'s client and may not be used, reproduced or relied upon by third parties, except as agreed by Alexco Environmental Group Inc. and its client as required by law or for use of governmental reviewing agencies. Alexco Environmental Group Inc. accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without Alexco Environmental Group Inc.'s express written consent.

1:3,000 (when printed on 11 x17 inch paper)

0 100 200 Metres

- * Proposed Spoil Storage Site
- Stream Crossing Fish Bearing (Bridge)
- Stream Crossing Non Fish Bearing (Culvert)
- Station Markers
- Contours (5 m Interval)
- Proposed Access Road Center Line
- 20m Existing Right of Way (Lease 105G07-001)
- 30m Proposed Right of Way
- ▨ Potential Borrow Area
- Location of Proposed Mine Infrastructure
- Map Extent



KUDZ ZE KAYAH PROJECT

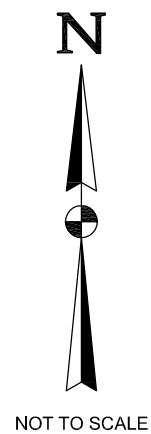
FIGURE 20

APPENDIX C-8

FEBRUARY 2017

D:\Project\AllProjects\Kudz_Ze_Kayah\Maps\01_Overview\03-SpecificTopics\Tote_Road\ROW\Tote_rd_ROW_20170222.mxd
(Last edited by: amallashevskia:22/02/2017/14:15:PM)

TYPICAL CROSS SECTIONS FOR KUDZ ZE KAYAH ACCESS ROAD UPGRADE



DWG No: 1356-2-TYPROADXSECTIONS-001

SHEET: 1 OF 6

PREPARED FOR:



PREPARED BY:

ONSITE
ENGINEERING LTD.

NORTH VANCOUVER
2 - 252 1ST ST E
NORTH VANCOUVER, BC, V7L 1B3
PH.: 778-628-4968 FAX: 866-235-6943

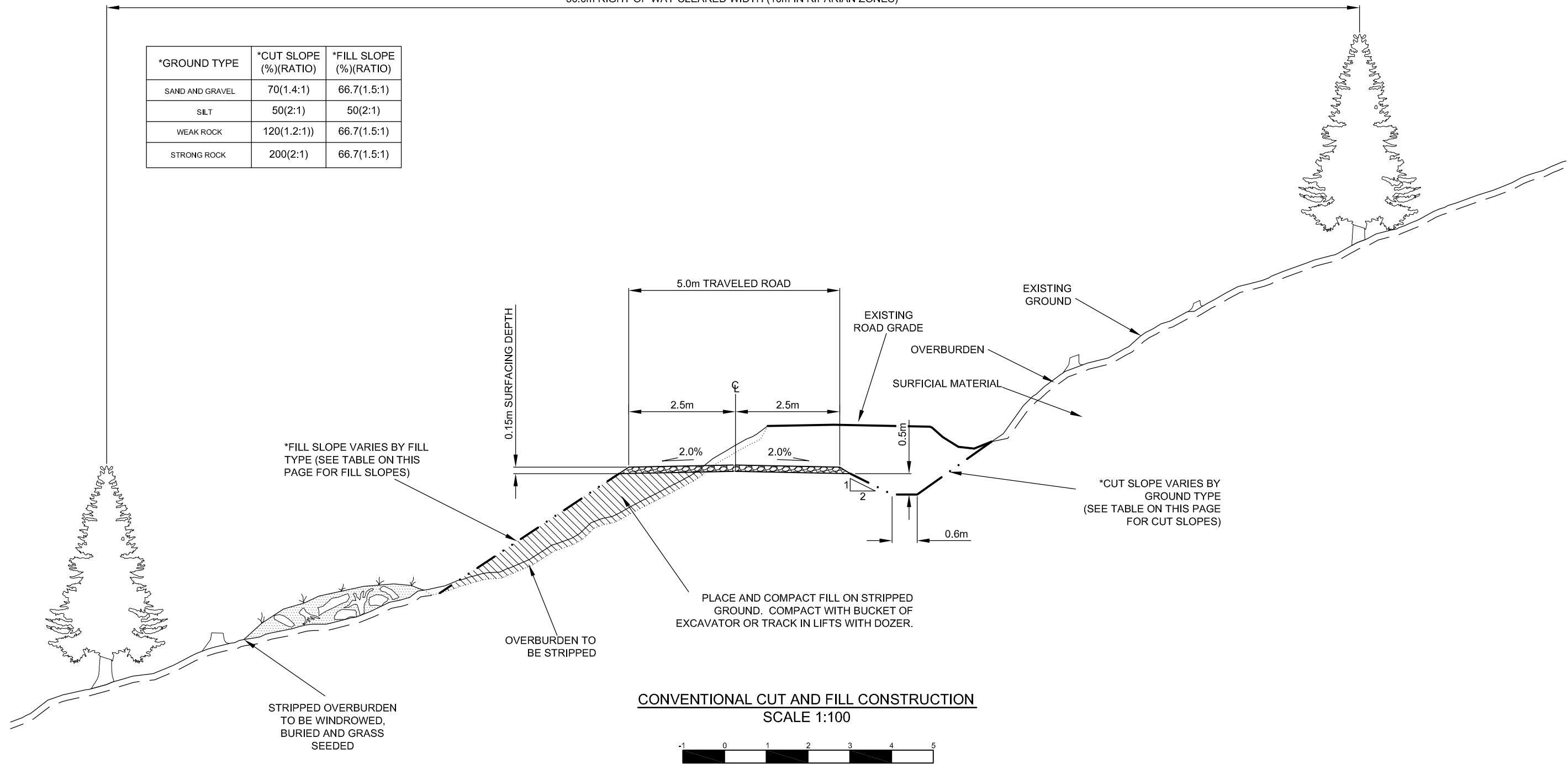
DESIGN BY: MATT DICKIE, EIT
DESIGN DATE: SEPTEMBER 30, 2016
REVIEWED BY: JEREMY ARAKI, P. ENG.
DRAWN BY: MATT DICKIE, EIT
SITE VISIT: ONSITE ENGINEERING LTD.
SITE VISIT DATES:
FILE NAME: TYPROADXSECTIONS.DWG
SCALE: AS NOTED
REVISION NUMBER:
REVISION DATE:
ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.

DRAWING INDEX:

- SHEET 2 OF 6 - CONVENTIONAL CUT AND FILL CONSTRUCTION
- SHEET 3 OF 6 - OVERLAND CONSTRUCTION IN ICE RICH PERMAFROST
- SHEET 4 OF 6 - CROSS DRAIN CULVERTS IN FILL AND ON GENTLE SLOPES
- SHEET 5 OF 6 - ROAD UPGRADES WITH HISTORIC WINDROW PRESENT
- SHEET 6 OF 6 - DOUBLE DITCH CONSTRUCTION

30.0m RIGHT OF WAY CLEARED WIDTH (10m IN RIPARIAN ZONES)

*GROUND TYPE	*CUT SLOPE (%) (RATIO)	*FILL SLOPE (%) (RATIO)
SAND AND GRAVEL	70(1.4:1)	66.7(1.5:1)
SILT	50(2:1)	50(2:1)
WEAK ROCK	120(1.2:1)	66.7(1.5:1)
STRONG ROCK	200(2:1)	66.7(1.5:1)



PREPARED FOR:



PREPARED BY:

ONSITE
ENGINEERING LTD.

NORTH VANCOUVER
2 - 252 1ST ST E
NORTH VANCOUVER, BC, V7L 1B3
PH.: 778-628-4968 FAX: 866-235-6943

TYPICAL CROSS SECTION:
CONVENTIONAL CUT AND FILL CONSTRUCTION

DWG No: 1356-2-TYPROADXSECTIONS-002

SHEET: 2 OF 6

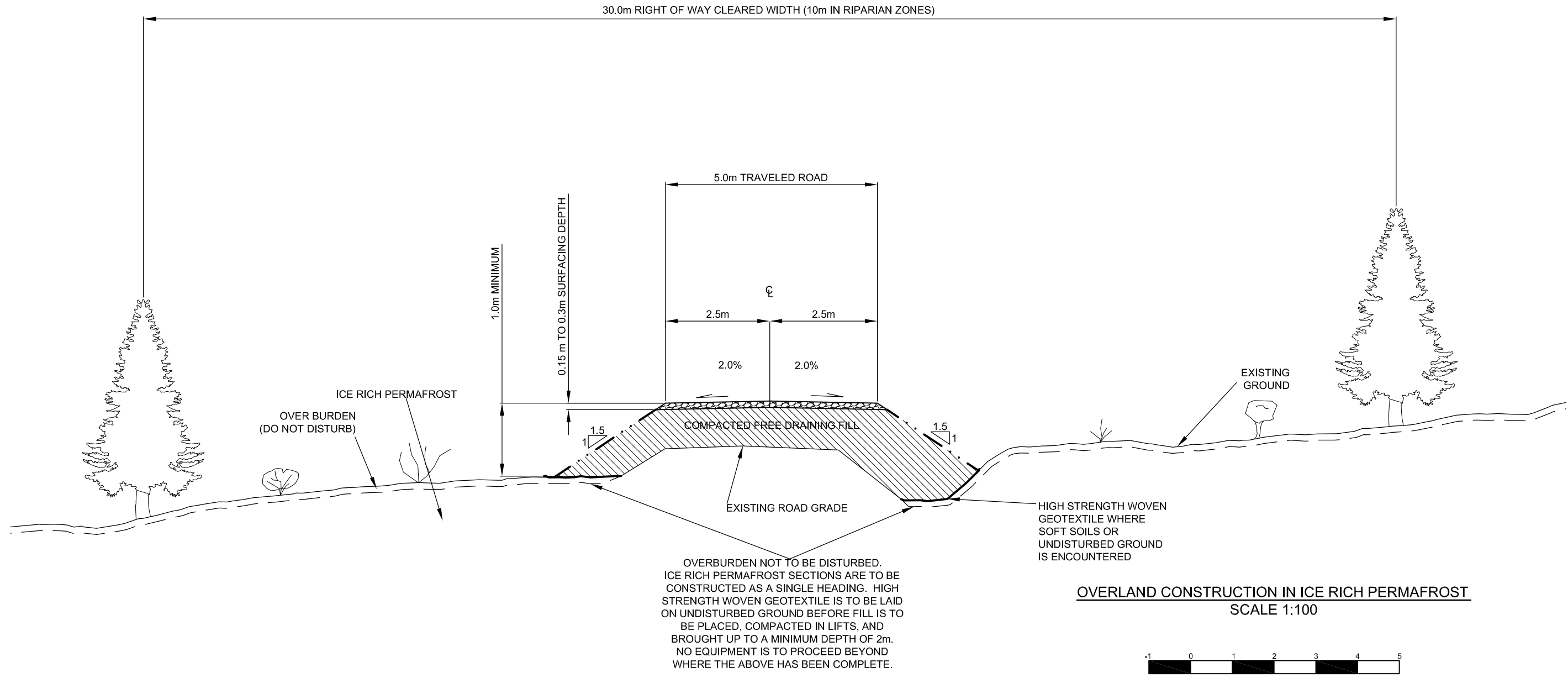
DESIGN BY: MATT DICKIE, EIT
DESIGN DATE: SEPTEMBER 30, 2016
REVIEWED BY: JEREMY ARAKI, P. ENG.
DRAWN BY: MATT DICKIE, EIT
SITE VISIT: ONSITE ENGINEERING LTD.
SITE VISIT DATES:
FILE NAME: TYPROADXSECTIONS.DWG
SCALE: AS NOTED

REVISION NUMBER:
REVISION DATE:
ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.

SEAL OF Y.T. P.ENG.

DRAFT

NOT FOR CONSTRUCTION



PREPARED FOR:



PREPARED BY:

ONSITE
ENGINEERING LTD.

NORTH VANCOUVER
2 - 252 1ST ST E
NORTH VANCOUVER, BC, V7L 1B3
PH.: 778-628-4968 FAX: 866-235-6943

TYPICAL CROSS SECTIONS:
OVERLAND CONSTRUCTION IN ICE RICH PERMAFROST

DWG No: 1356-2-TYPROADXSECTIONS-003

SHEET: 3 OF 6

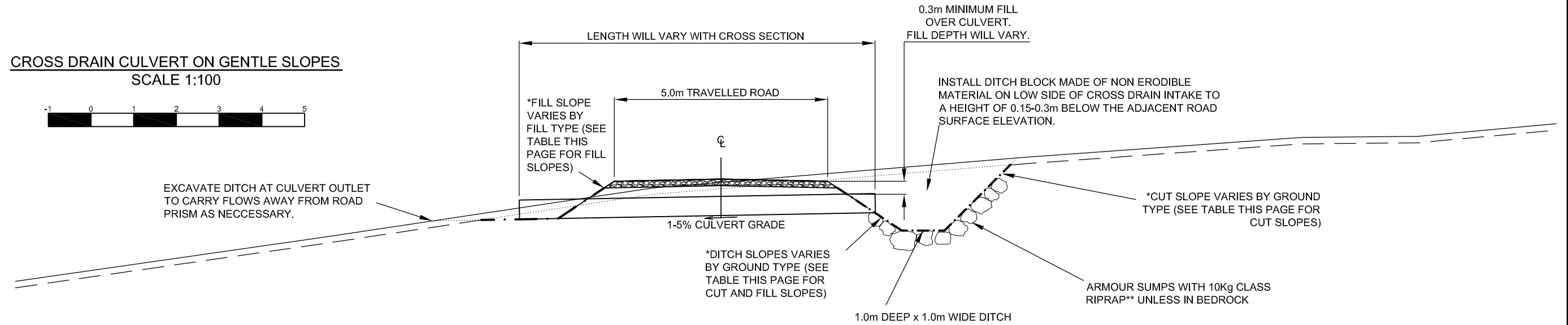
DESIGN BY: MATT DICKIE, EIT
DESIGN DATE: SEPTEMBER 30, 2016
REVIEWED BY: JEREMY ARAKI, P. ENG.
DRAWN BY: MATT DICKIE, EIT
SITE VISIT: ONSITE ENGINEERING LTD.
SITE VISIT DATES:
FILE NAME: TYPROADXSECTIONS.DWG
SCALE: AS NOTED
REVISION NUMBER:
REVISION DATE:
ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.

SEAL OF Y.T. P.ENG.

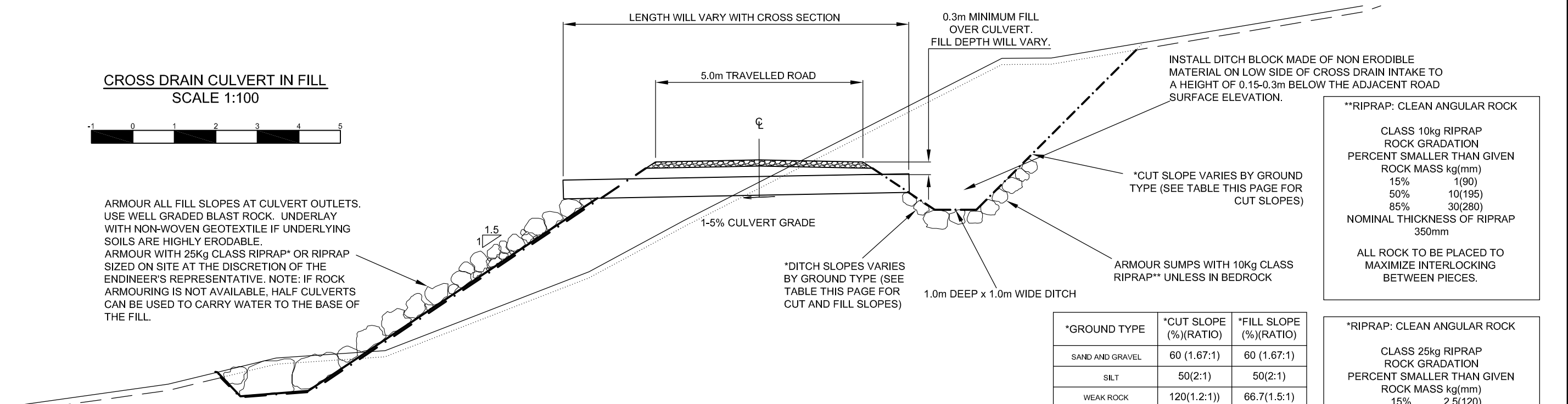
DRAFT

NOT FOR CONSTRUCTION

CROSS DRAIN CULVERT ON GENTLE SLOPES
SCALE 1:100



CROSS DRAIN CULVERT IN FILL
SCALE 1:100



ARMOUR ALL FILL SLOPES AT CULVERT OUTLETS. USE WELL GRADED BLAST ROCK. UNDERLAY WITH NON-WOVEN GEOTEXTILE IF UNDERLYING SOILS ARE HIGHLY ERODABLE. ARMOUR WITH 25Kg CLASS RIPRAP* OR RIPRAP SIZED ON SITE AT THE DISCRETION OF THE ENGINEER'S REPRESENTATIVE. NOTE: IF ROCK ARMOURING IS NOT AVAILABLE, HALF CULVERTS CAN BE USED TO CARRY WATER TO THE BASE OF THE FILL.

****RIPRAP: CLEAN ANGULAR ROCK**

CLASS 10kg RIPRAP	
ROCK GRADATION	
PERCENT SMALLER THAN GIVEN	
ROCK MASS kg(mm)	
15%	1(90)
50%	10(195)
85%	30(280)
NOMINAL THICKNESS OF RIPRAP 350mm	
ALL ROCK TO BE PLACED TO MAXIMIZE INTERLOCKING BETWEEN PIECES.	

****RIPRAP: CLEAN ANGULAR ROCK**

CLASS 25kg RIPRAP	
ROCK GRADATION	
PERCENT SMALLER THAN GIVEN	
ROCK MASS kg(mm)	
15%	2.5(120)
50%	25(260)
85%	75(380)
NOMINAL THICKNESS OF RIPRAP 450mm	
ALL ROCK TO BE PLACED TO MAXIMIZE INTERLOCKING BETWEEN PIECES.	

*GROUND TYPE	*CUT SLOPE (%) (RATIO)	*FILL SLOPE (%) (RATIO)
SAND AND GRAVEL	60 (1.67:1)	60 (1.67:1)
SILT	50(2:1)	50(2:1)
WEAK ROCK	120(1.2:1)	66.7(1.5:1)
STRONG ROCK	200(2:1)	66.7(1.5:1)
WEATHERED SCHIST	60 (1.67:1)	60 (1.67:1)

NOTES:

1. MINIMUM CLEARANCE BETWEEN WALLS OF CULVERTS IN MULTIPLE INSTALLATIONS SHALL BE D/2 OF THE SMALLEST PIPE OR 1.0m, WHICHEVER IS GREATER
2. GEOTEXTILE FABRIC SHALL BE NON-WOVEN CONSTRUCTED, SUPPLIED IN ROLLS AND APPROVED BY ENGINEER PRIOR TO INSTALLATION.
3. MINIMUM THICKNESS OF RIPRAP SHALL BE AS FOLLOWS:
- 300mm FOR 10KG CLASS RIPRAP
- 450MM FOR 25KG CLASS RIPRAP
4. SKEW CULVERT 3° FOR EACH 1% ROAD GRADIENT OVER 3%. MAXIMUM SKEW OF 45°.

PREPARED FOR:



PREPARED BY:

ONSITE
ENGINEERING LTD.

NORTH VANCOUVER
2 - 252 1ST ST E
NORTH VANCOUVER, BC, V7L 1B3
PH.: 778-628-4968 FAX: 866-235-6943

TYPICAL CROSS SECTION:
CROSS DRAIN CULVERTS IN FILL AND ON GENTLE SLOPES

DWG No: 1356-2-TYPROADXSECTIONS-004

SHEET: 4 OF 6

DESIGN BY: MATT DICKIE, EIT

DESIGN DATE: SEPTEMBER 30, 2016

REVIEWED BY: JEREMY ARAKI, P. ENG.

DRAWN BY: MATT DICKIE, EIT

SITE VISIT: ONSITE ENGINEERING LTD.

SITE VISIT DATES:

FILE NAME: TYPROADXSECTIONS.DWG

SCALE: AS NOTED

REVISION NUMBER:

REVISION DATE:

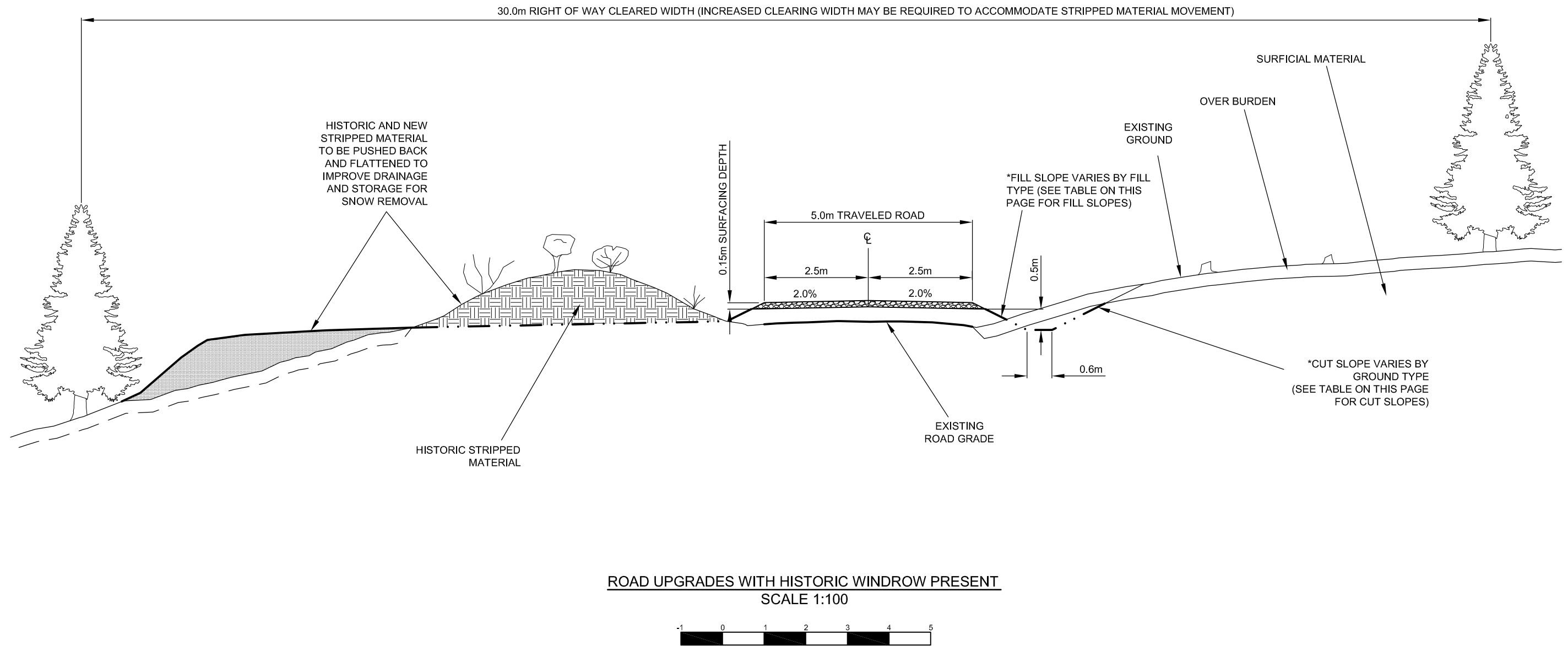
ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.

SEAL OF Y.T. P.ENG.

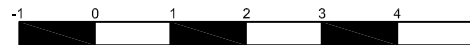
DRAFT

NOT FOR CONSTRUCTION

*GROUND TYPE	*CUT SLOPE (%) (RATIO)	*FILL SLOPE (%) (RATIO)
SAND AND GRAVEL	60 (1.67:1)	60 (1.67:1)
SILT	50(2:1)	50(2:1)
WEAK ROCK	120(1.2:1)	66.7(1.5:1)
STRONG ROCK	200(2:1)	66.7(1.5:1)
WEATHERED SCHIST	60 (1.67:1)	60 (1.67:1)



ROAD UPGRADES WITH HISTORIC WINDROW PRESENT
SCALE 1:100



PREPARED FOR:



PREPARED BY:

ONSITE
ENGINEERING LTD.
NORTH VANCOUVER
2 - 252 1ST ST E
NORTH VANCOUVER, BC, V7L 1B3
PH.: 778-628-4968 FAX: 866-235-6943

TYPICAL CROSS SECTION:
ROAD UPGRADES WITH HISTORIC WINDROW
PRESENT

DWG No: 1356-2-TYPROADXSECTIONS-005

SHEET: 5 OF 6

DESIGN BY: MATT DICKIE, EIT
DESIGN DATE: SEPTEMBER 30, 2016
REVIEWED BY: JEREMY ARAKI, P. ENG.
DRAWN BY: MATT DICKIE, EIT
SITE VISIT: ONSITE ENGINEERING LTD.
SITE VISIT DATES:
FILE NAME: TYPROADXSECTIONS.DWG
SCALE: AS NOTED
REVISION NUMBER:
REVISION DATE:
ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.

SEAL OF Y.T. P.ENG.

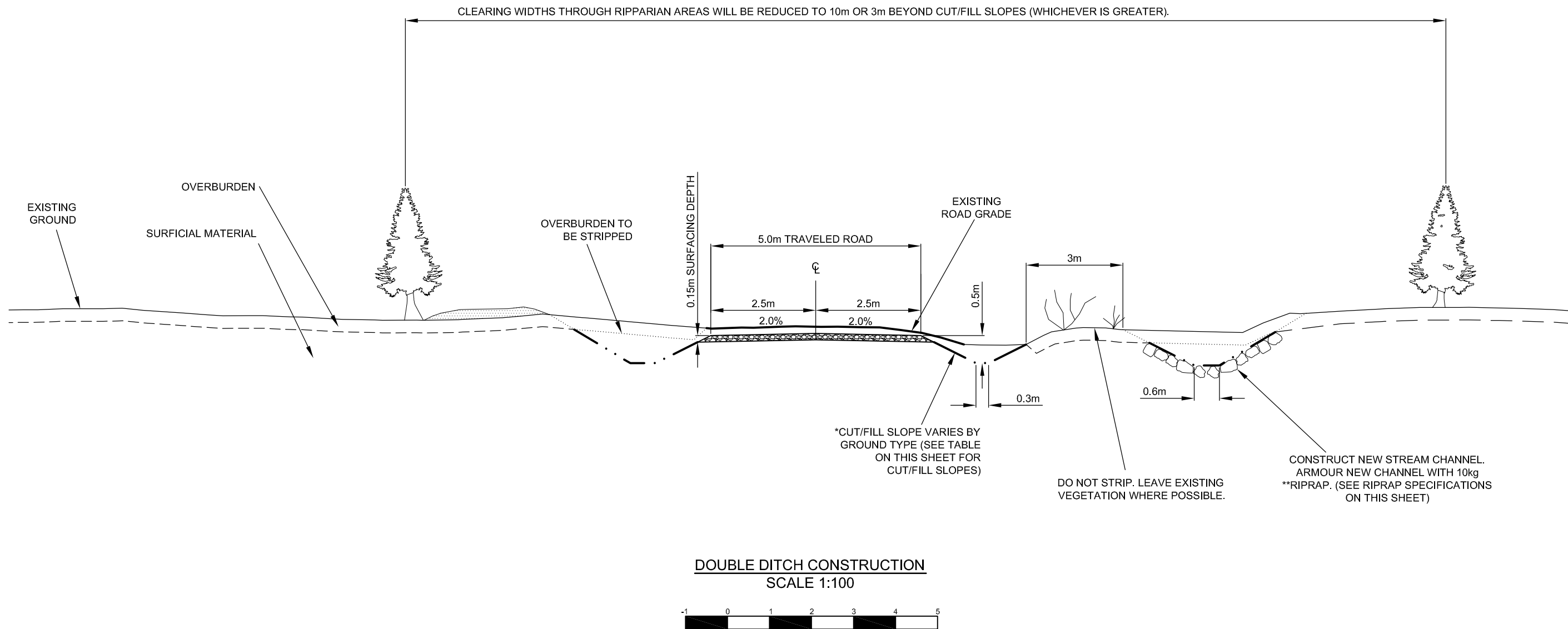
DRAFT
NOT FOR CONSTRUCTION

*GROUND TYPE	*CUT SLOPE (%) (RATIO)	*FILL SLOPE (%) (RATIO)
SAND AND GRAVEL	60 (1.67:1)	60 (1.67:1)
SILT	50(2:1)	50(2:1)
WEAK ROCK	120(1.2:1)	66.7(1.5:1)
STRONG ROCK	200(2:1)	66.7(1.5:1)
WEATHERED SCHIST	60 (1.67:1)	60 (1.67:1)

****RIPRAP: CLEAN ANGULAR ROCK**

CLASS 10kg RIPRAP
ROCK GRADATION
PERCENT SMALLER THAN GIVEN
ROCK MASS kg(mm)
15% 1(90)
50% 10(195)
85% 30(280)
NOMINAL THICKNESS OF RIPRAP
350mm

ALL ROCK TO BE PLACED TO
MAXIMIZE INTERLOCKING
BETWEEN PIECES.



PREPARED FOR:



PREPARED BY:

ONSITE
ENGINEERING LTD.

NORTH VANCOUVER
2 - 252 1ST ST E
NORTH VANCOUVER, BC, V7L 1B3
PH.: 778-628-4968 FAX: 866-235-6943

TYPICAL CROSS SECTION:
DOUBLE DITCH CONSTRUCTION

DWG No: 1356-2-TYPROADXSECTIONS-006

SHEET: 6 OF 6

DESIGN BY: MATT DICKIE, EIT
DESIGN DATE: SEPTEMBER 30, 2016
REVIEWED BY: JEREMY ARAKI, P. ENG.
DRAWN BY: MATT DICKIE, EIT
SITE VISIT: ONSITE ENGINEERING LTD.
SITE VISIT DATES:
FILE NAME: TYPROADXSECTIONS.DWG
SCALE: AS NOTED
REVISION NUMBER:
REVISION DATE:
ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.

SEAL OF Y.T. P.ENG.

DRAFT

NOT FOR CONSTRUCTION