



**Public Services and  
Procurement Canada**

**Services publics et  
Approvisionnement Canada**

**KM 325 - 355  
DRAINAGE IMPROVEMENTS  
ALASKA HIGHWAY, BC**

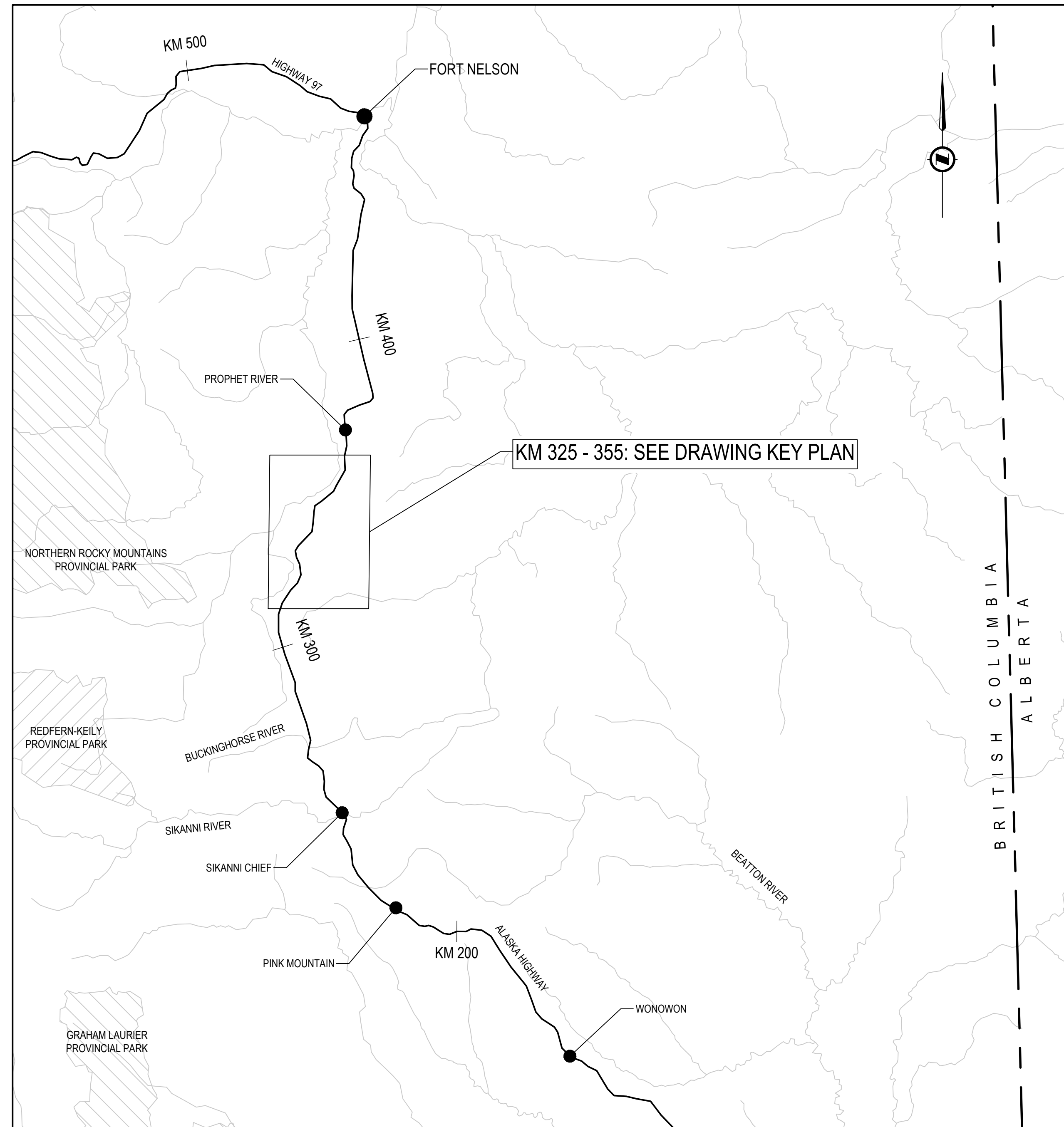
**ALASKA HIGHWAY  
BRITISH COLUMBIA**



**PROJECT No. R.115075.003**

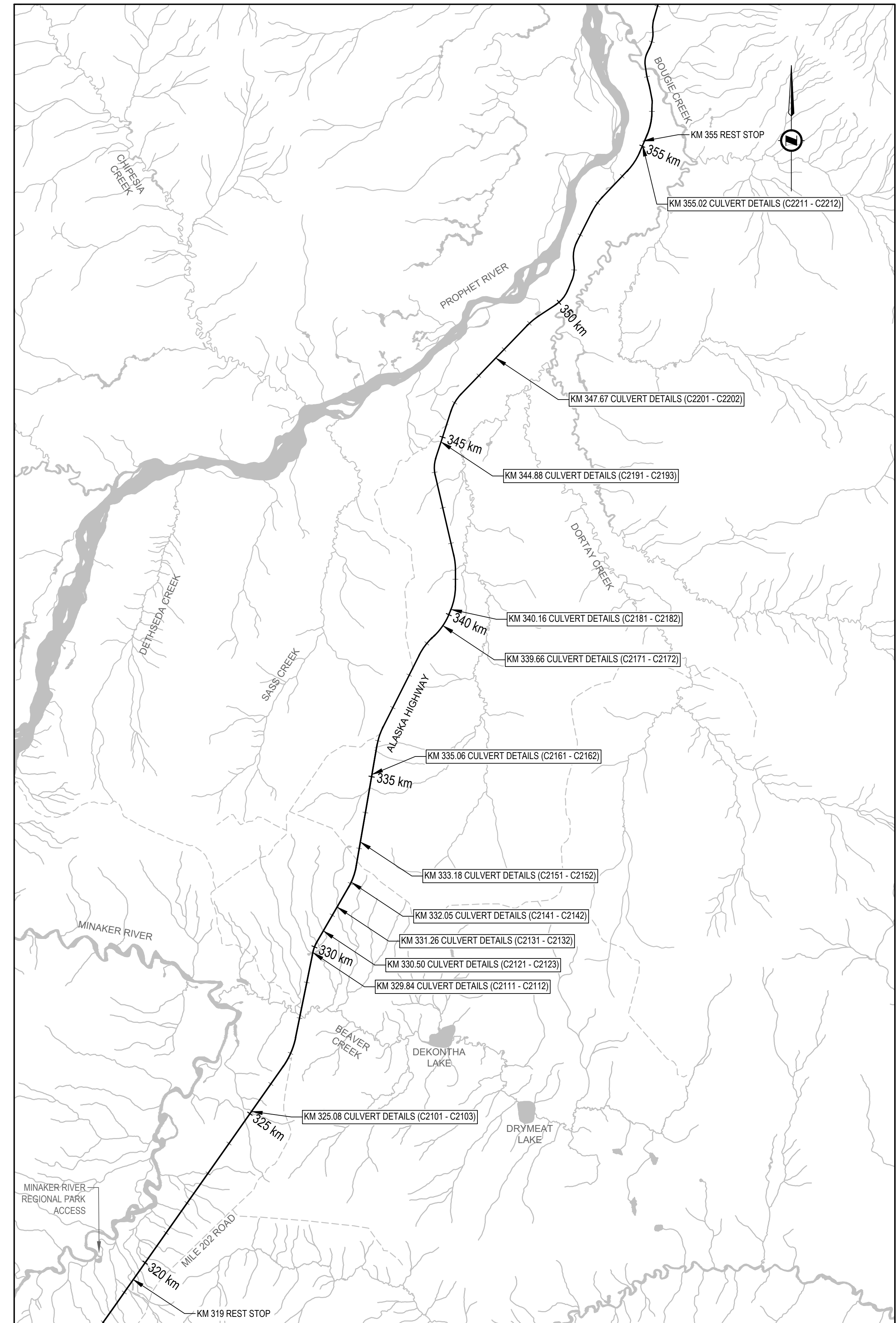
**ISSUED FOR TENDER  
July 21, 2021**

### PROJECT LOCATION PLAN



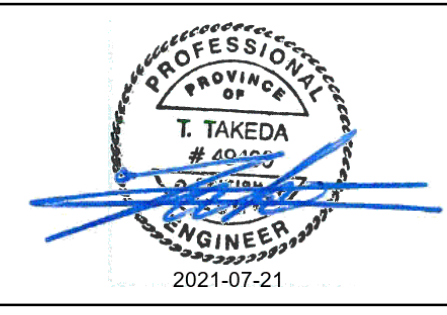
SCALE: 1:750,000

### PROJECT KEY PLAN



SCALE: 1:75,000

**ISSUED FOR TENDER**



Revision/Revisão	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/07/21

**PUBLIC SERVICES AND PROCUREMENT CANADA**



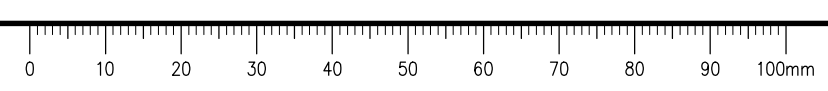
Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

Approved by/Approve par  
**T. TAKEDA**  
 Designed by/Concept par  
**A. DEEPWELL**  
 Drawn by/Dessine par  
**A. DEEPWELL / J. SCHITTHELM**  
 P.S.P.C. Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**  
 P.S.P.C. Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSGC

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**  
 Drawing title/Titre du dessin  
**PROJECT LOCATION PLAN AND PROJECT KEY PLAN**

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
<b>R.115075.003</b>	<b>C0001</b>	<b>0</b>

Q:\Vancouver\Transportation\TRN\VHWY03\64 Alaska Highway Paving Km 325 - 355 & Km 520 - 555\CAD\Sheets KM 325 Culverts\C0000-0002 COVER & KEY PLAN.dwg [C0001] July 21, 2021 - 11:48:45 am (BY: TAKEDA, TAKUMA)

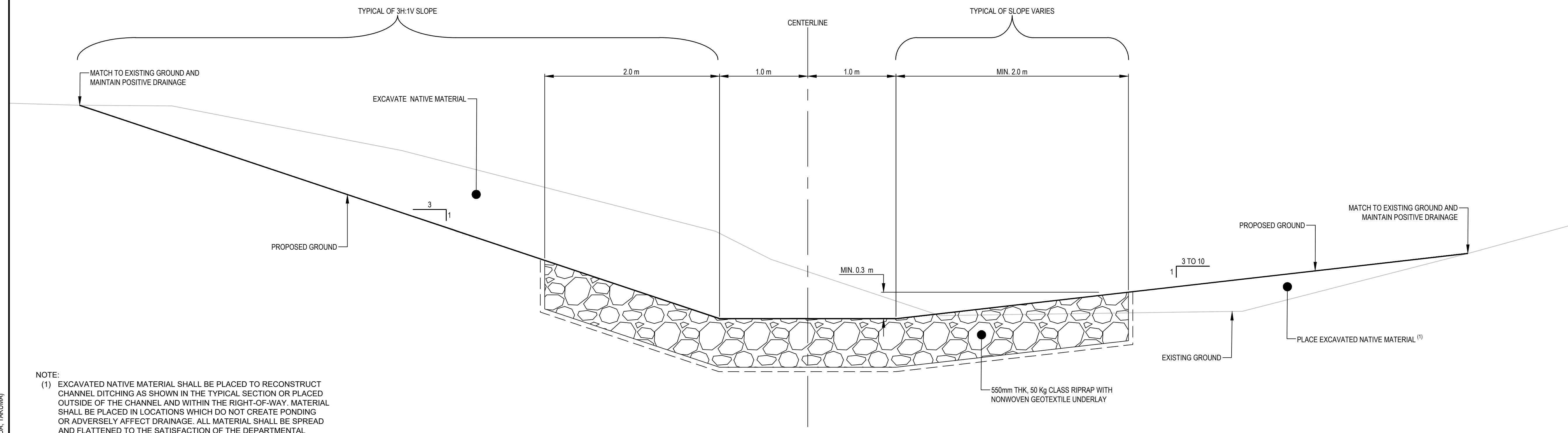






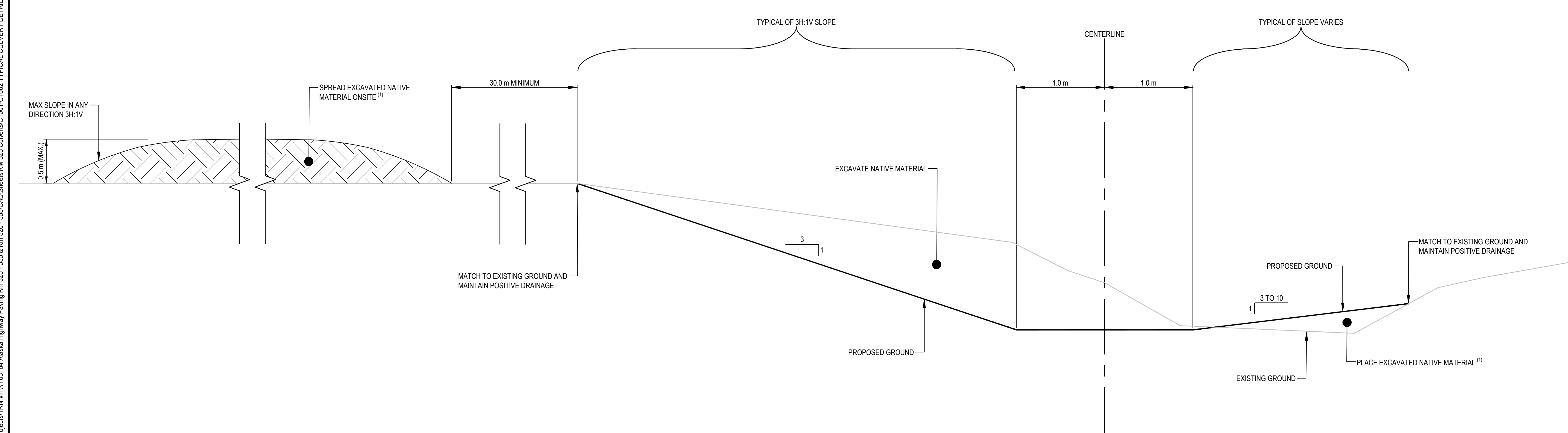
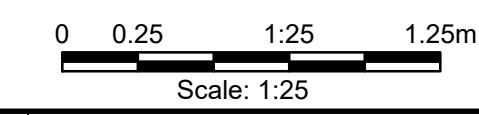
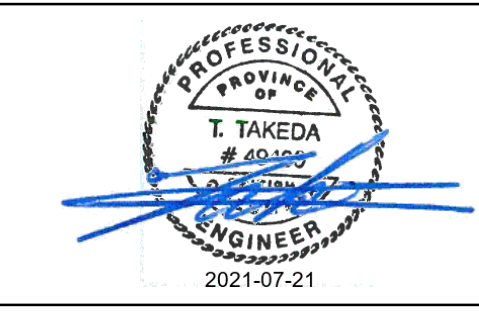
# ISSUED FOR TENDER

- GENERAL NOTES:
- DIMENSIONS, COORDINATES, ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE.
  - THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
  - ALL DISTURBED AREAS WITHOUT RIPRAP TO BE HYDROSEEDDED.
  - FOR ADDITIONAL INFORMATION REFER TO CULVERT PLAN AND PROFILE DRAWINGS.



TYPICAL SECTION - CHANNEL WITH RIPRAP  
SCALE 1:25

NOTE:  
(1) EXCAVATED NATIVE MATERIAL SHALL BE PLACED TO RECONSTRUCT CHANNEL DITCHING AS SHOWN IN THE TYPICAL SECTION OR PLACED OUTSIDE OF THE CHANNEL AND WITHIN THE RIGHT-OF-WAY. MATERIAL SHALL BE PLACED IN LOCATIONS WHICH DO NOT CREATE PONDING OR ADVERSELY AFFECT DRAINAGE. ALL MATERIAL SHALL BE SPREAD AND FLATTENED TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE WITH A MAXIMUM THICKNESS OF 0.5 m. ALL EXCAVATED MATERIAL AND DISTURBED AREAS SHALL BE HYDROSEEDDED.



TYPICAL SECTION - CHANNEL WITHOUT RIPRAP  
SCALE 1:25

0	ISSUED FOR TENDER	21/07/21
Revision/	Description/Description	Date/Date

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**



Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

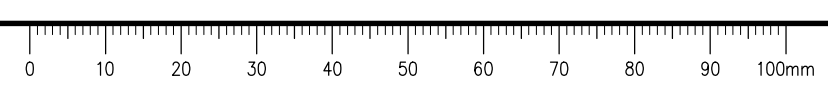
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**R. HAGHIGHI**  
PSPC Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

Drawing title/Titre du dessin  
**TYPICAL CHANNEL DETAILS**

Project No./No. du projet <b>R.115075.003</b>	Sheet/Fauille <b>C1001</b>	Revision no./La Révision no. <b>0</b>
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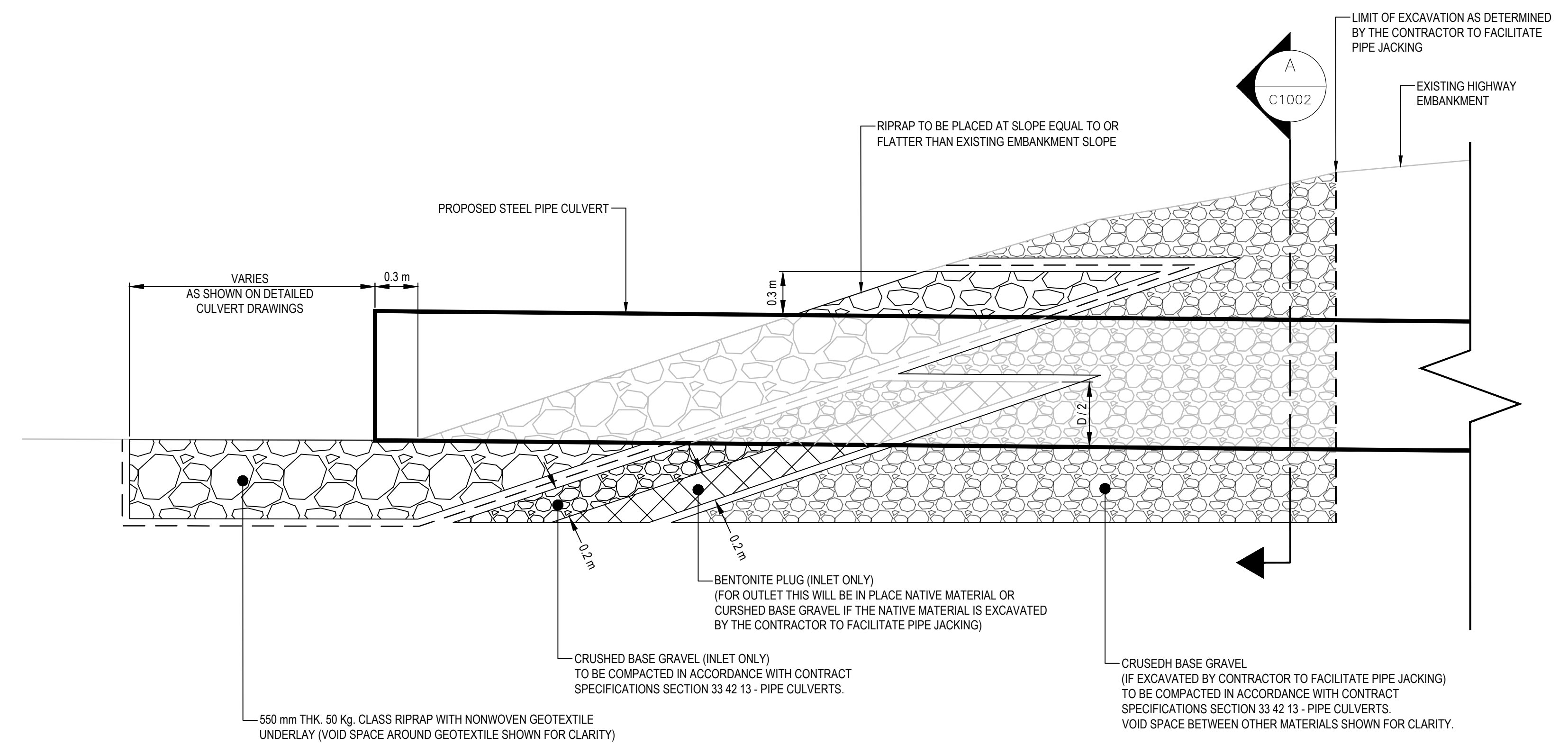
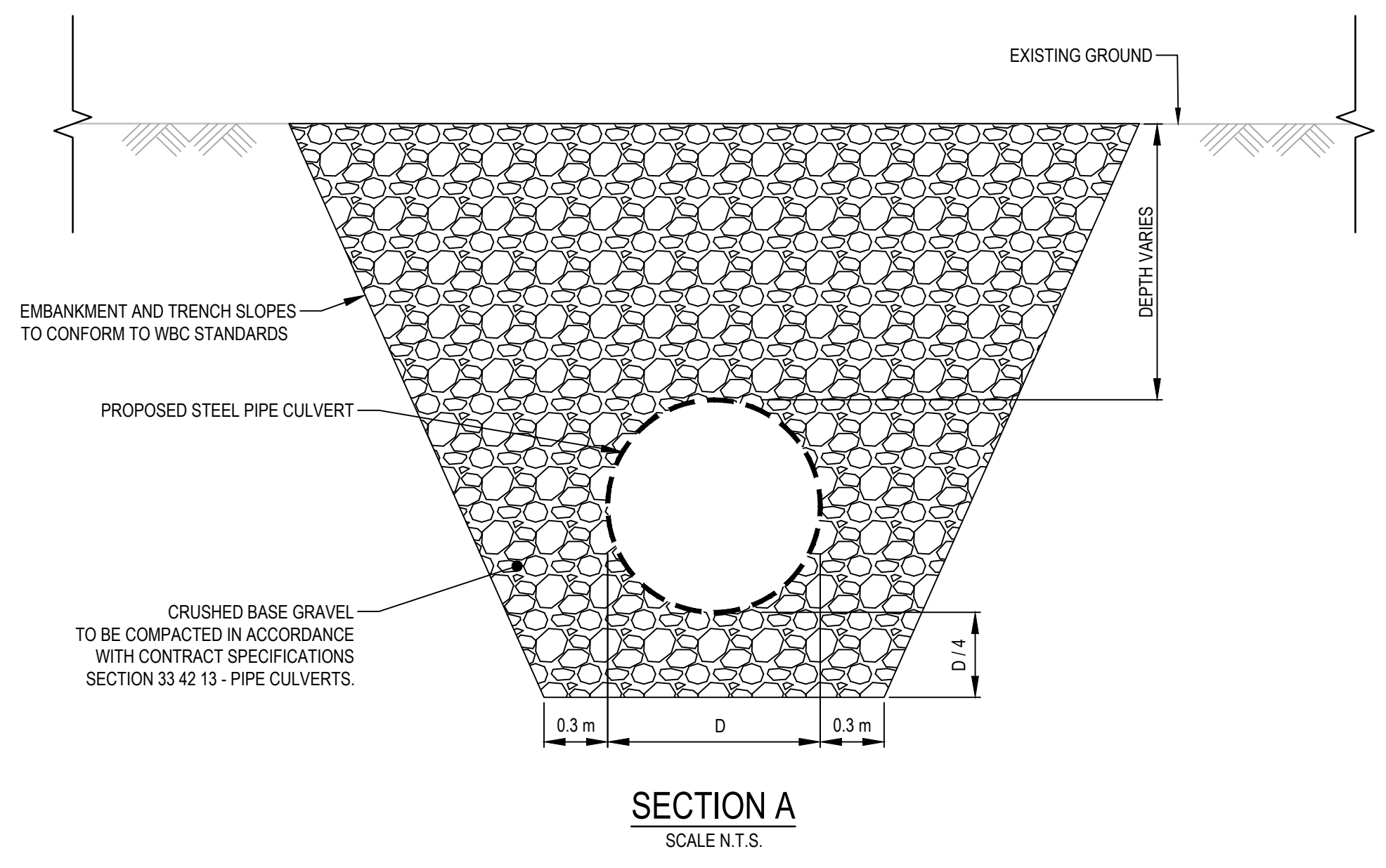
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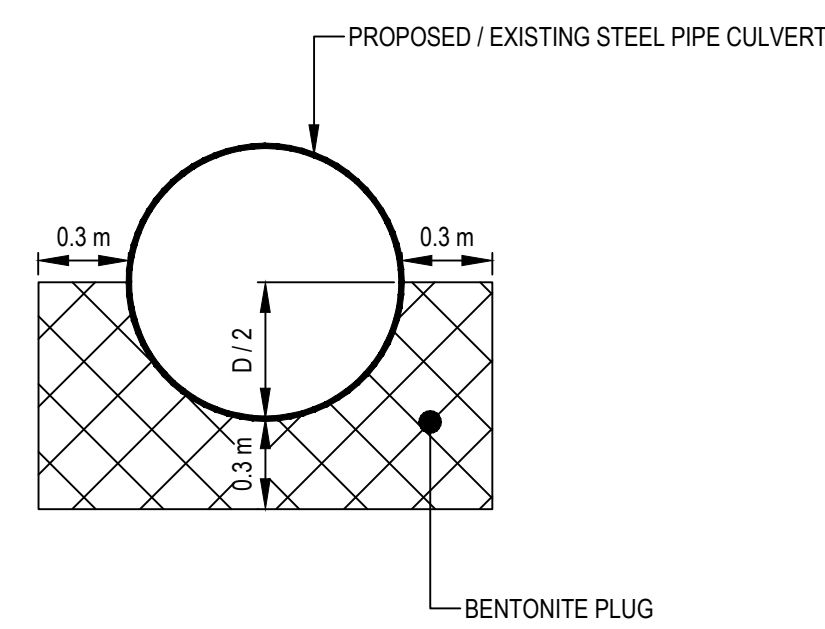


**ISSUED FOR TENDER**

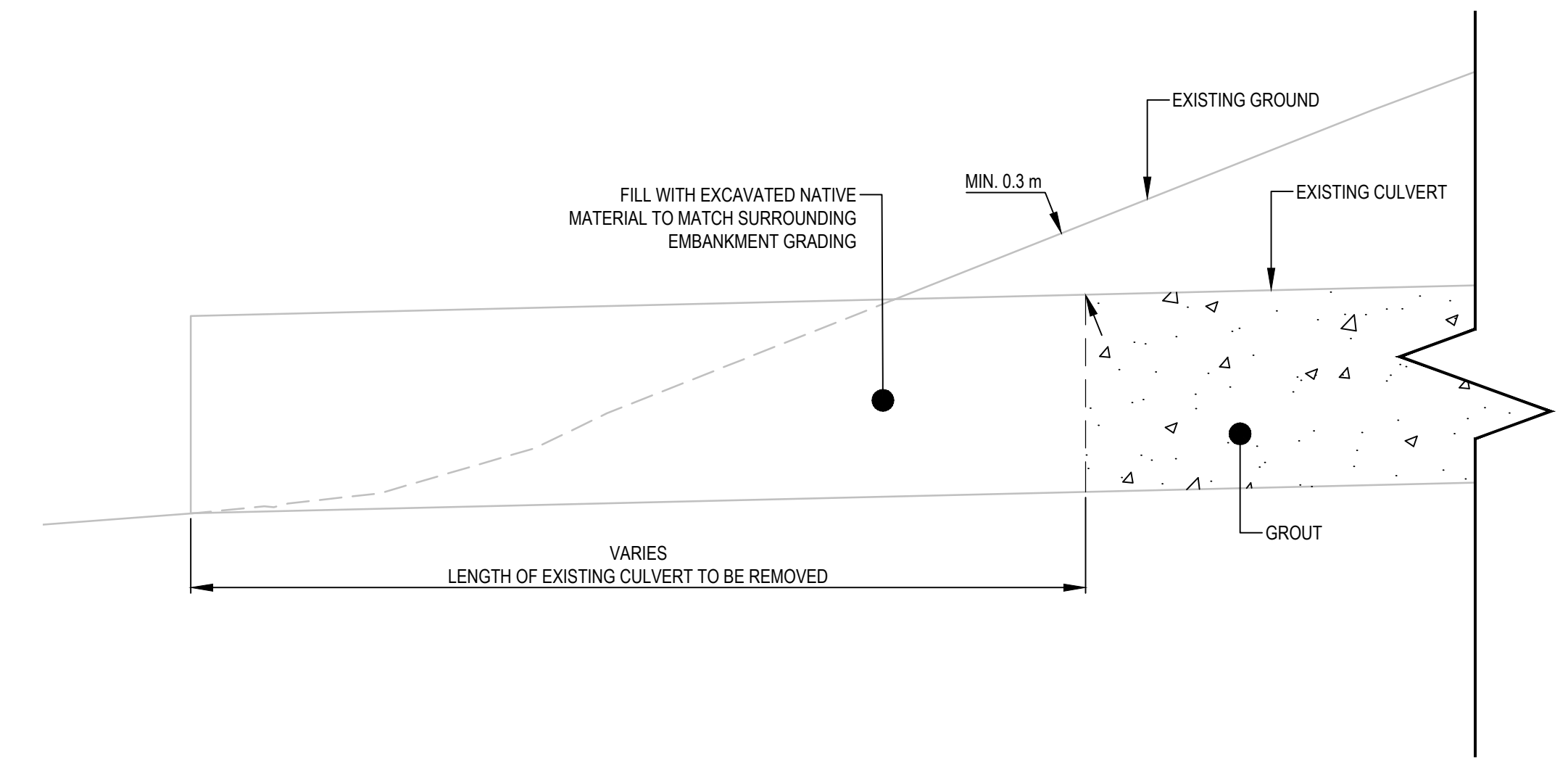
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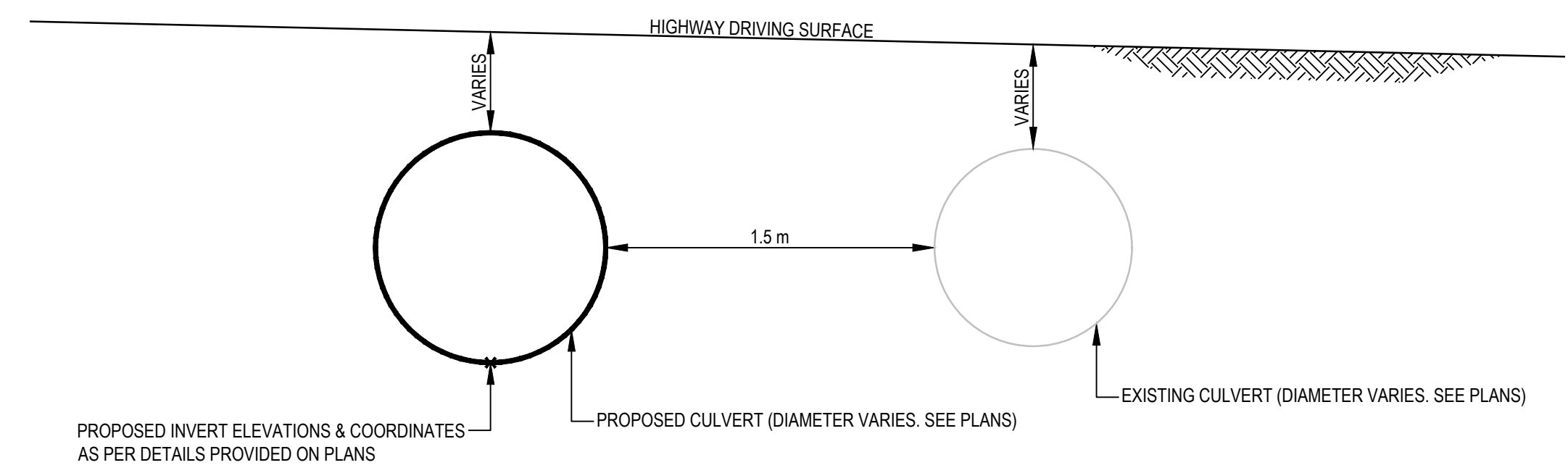
**TYPICAL CULVERT INLET / OUTLET DETAIL**  
 SCALE 1:25



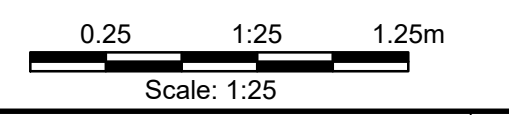
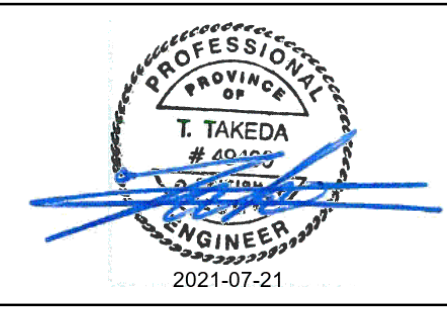
**TYPICAL BENTONITE PLACEMENT (INLET ONLY)**  
 SCALE 1:25



**TYPICAL DETAIL - DECOMMISSIONING OF EXISTING CULVERT**  
 SCALE 1:25



**TYPICAL PROPOSED CULVERT LOCATION SECTION**  
 SCALE 1:25



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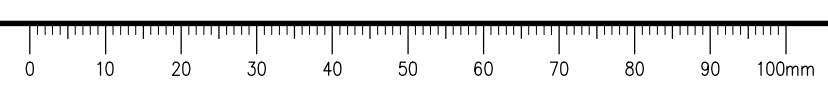
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Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

Drawing title/Titre du dessin  
**TYPICAL CULVERT DETAILS**

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
<b>R.115075.003</b>	<b>C1002</b>	<b>0</b>

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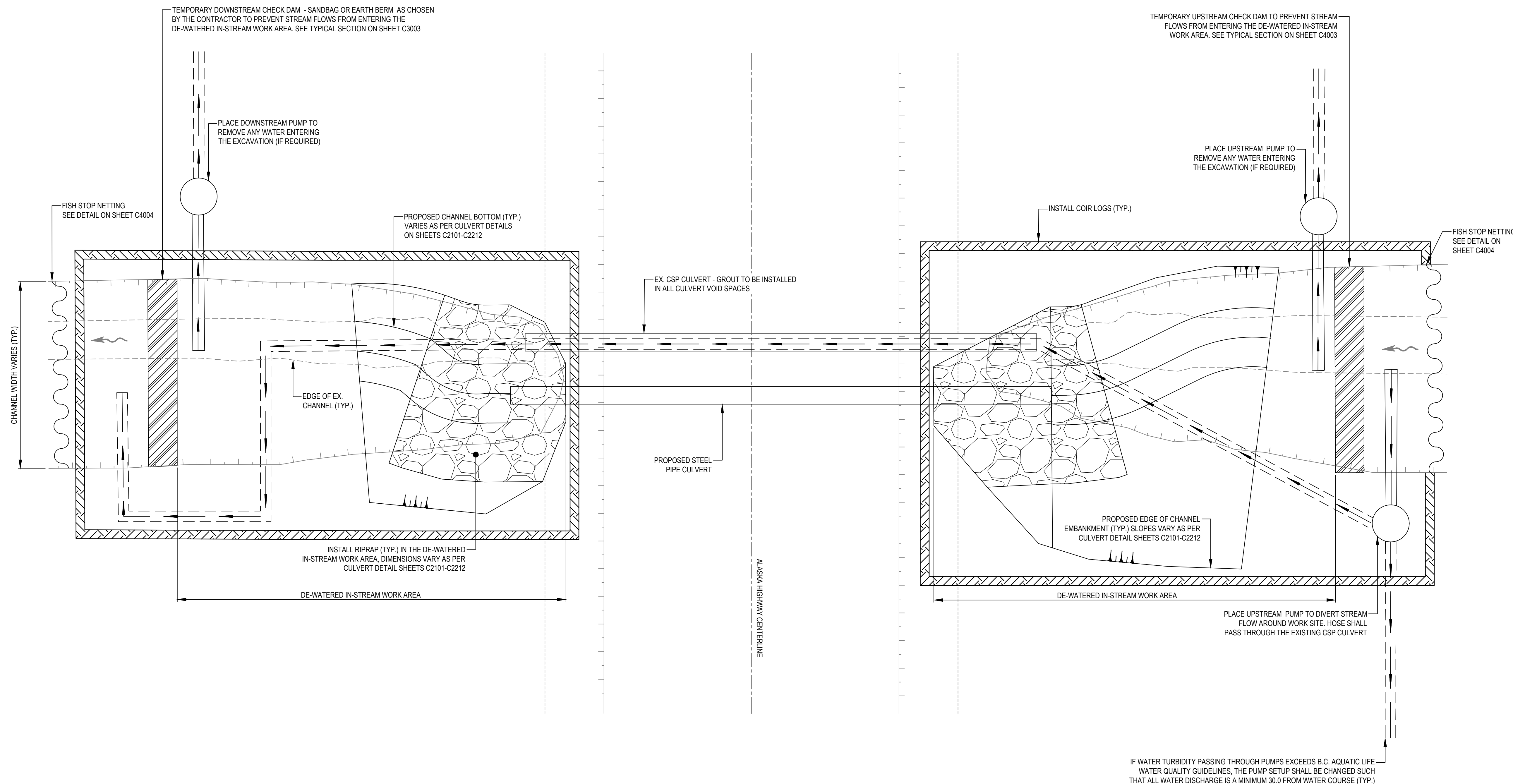




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  - THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
  - ALL DISTURBED AREAS WITHOUT RIPRAP TO BE HYDROSEEDED.
  - FOR ADDITIONAL INFORMATION REFER TO CULVERT PLAN AND PROFILE DRAWINGS.

- CONSTRUCTION SEQUENCING / STAGING (STAGE 1):
- INSTALL COIR LOG ALONG EXCAVATION AREAS.
  - INSTALL FISH STOP NETTING.
  - EXECUTE FISH SALVAGE AT INLET AND OUTLET ISOLATED AREAS.
  - INSTALL UPSTREAM CHECK DAM.
  - INSTALL UPSTREAM PRIMARY PUMP(S), PASS HOSES THROUGH EXISTING CULVERT AND COMMENCE STREAM FLOW DIVERSION INTO PUMPS.
  - INSTALL UPSTREAM SECONDARY PUMP (IF NECESSARY).
  - INSTALL DOWNSTREAM PUMP (IF NECESSARY).
  - INSTALL RIPRAP IN THE DE-WATERED IN-STREAM WORK AREAS.
  - CREATE STABLE STREAM BANK SLOPE.



- NOTES:
- ALL COIR LOGS, STOP NETTING AND ASSOCIATED COMPONENTS SHALL BE REMOVED OFF-SITE AT THE COMPLETION OF THE SITE WORK.
  - ALL CHECK DAMS SHALL BE REMOVED AND THE AREA RESTORED TO EQUAL OR BETTER CONDITIONS TO THAT PRIOR TO CONSTRUCTION AT THE COMPLETION OF THE SITE WORK.
  - ALL DISTURBED AREAS WITHOUT RIPRAP TO BE HYDROSEEDED.

TYPICAL STAGE 1 TEMPORARY STREAM DIVERSION FOR CULVERT REPLACEMENT  
(TO BE IMPLEMENTED DURING CULVERT REPLACEMENT WHEN STREAM FLOWS ARE PRESENT OR EXPECTED DURING THE WORK)  
SCALE 1:100



0	ISSUED FOR TENDER	21/07/21
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Client/Client		

**PUBLIC SERVICES AND PROCUREMENT CANADA**



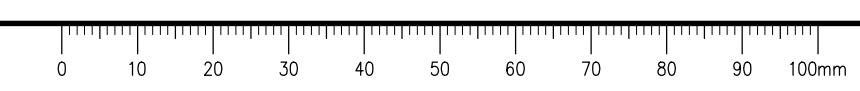
Project Title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

Approved by/Approve par  
**T. TAKEDA**  
Designed by/Concept par  
**A. DEEPWELL**  
Drawn by/Dessiné par  
**A. DEEPWELL / J. SCHITTHELM**  
PSPC Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**  
PSPC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC  
Client/Client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

Drawing Title/Titre du dessin  
**PROPOSED CULVERT: ENVIRONMENTAL STAGING DRAWINGS - STAGE 1 PLAN VIEW**

Project No./No. du projet <b>R.115075.003</b>	Sheet/Fauille <b>C1011</b>	Revision no./La Révision no. <b>0</b>
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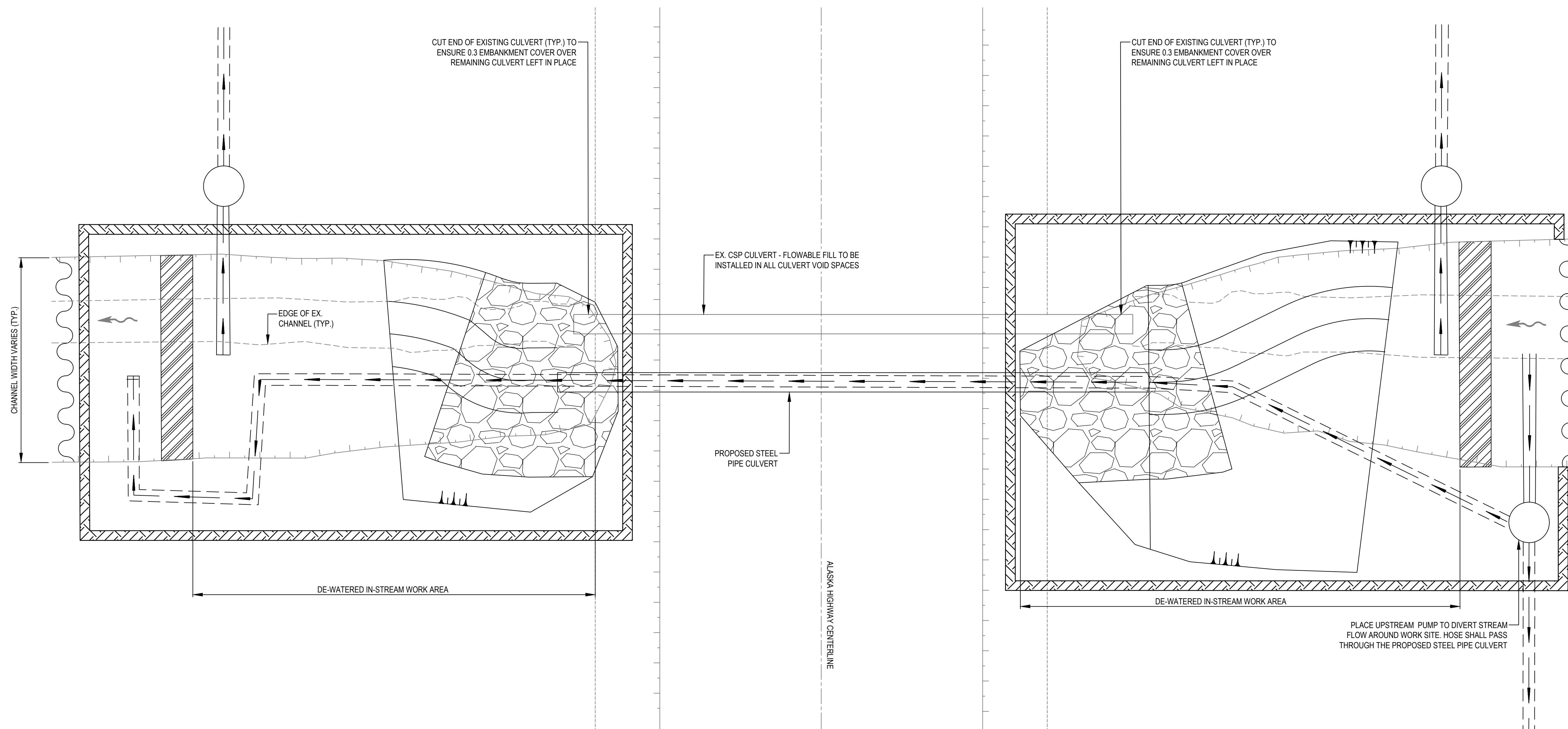
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**ISSUED FOR TENDER**

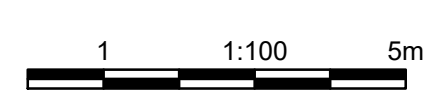
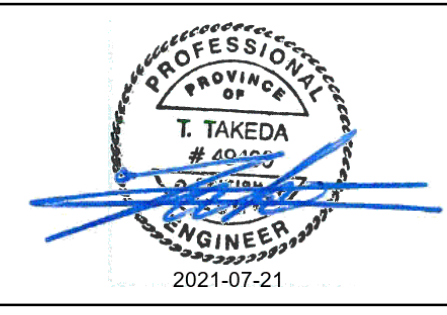
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  4. FOR ADDITIONAL INFORMATION REFER TO CULVERT PLAN AND PROFILE DRAWINGS.

- CONSTRUCTION SEQUENCING / STAGING (STAGE 2):
1. PASS PUMP HOSE THROUGH PROPOSED CULVERT AND CONTINUE STREAM DIVERSION INTO PUMPS.
  2. REMOVE DOWNSTREAM PUMP AND ANY ASSOCIATED MATERIAL.
  3. REMOVE DOWNSTREAM CHECK DAM AND ANY ASSOCIATED MATERIAL.
  4. REMOVE UPSTREAM CHECK DAM AND ANY ASSOCIATED MATERIAL.
  5. REMOVE UPSTREAM PUMP(S) AND ANY ASSOCIATED MATERIAL.
  6. REMOVE DOWNSTREAM FISH STOP NET AND ANY ASSOCIATED MATERIAL.
  7. REMOVE UPSTREAM FISH STOP NET AND ASSOCIATED MATERIAL.
  8. REMOVE AND DISPOSE OFFSITE COIR LOG AND ANY ASSOCIATED MATERIAL.



TYPICAL STAGE 2 TEMPORARY STREAM DIVERSION FOR CULVERT REPLACEMENT  
(TO BE IMPLEMENTED DURING CULVERT REPLACEMENT WHEN STREAM FLOWS ARE PRESENT OR EXPECTED DURING THE WORK)  
SCALE 1:100

- NOTES:
- ALL COIR LOGS, STOP NETTING AND ASSOCIATED COMPONENTS SHALL BE REMOVED OFFSITE AT THE COMPLETION OF THE SITE WORK.
  - ALL CHECK DAMS SHALL BE REMOVED AND THE AREA RESTORED TO EQUAL OR BETTER CONDITIONS TO THAT PRIOR TO CONSTRUCTION AT THE COMPLETION OF THE SITE WORK.
  - ALL DISTURBED AREAS WITHOUT RIPRAP TO BE HYDROSEEDED.



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Client/Client		

**PUBLIC SERVICES AND PROCUREMENT CANADA**



Project Title/Titre du projet  
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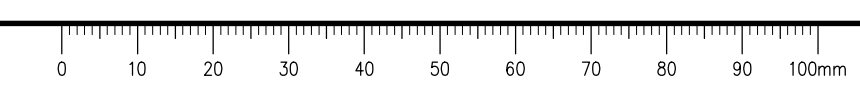
Approved by/Approuvé par  
**T. TAKEDA**  
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Client/Client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

Drawing Title/Titre du dessin  
**PROPOSED CULVERT: ENVIRONMENTAL STAGING DRAWINGS - STAGE 2 PLAN VIEW**

Project No./No. du projet <b>R.115075.003</b>	Sheet/Fauille <b>C1012</b>	Revision no./La Révision no. <b>0</b>
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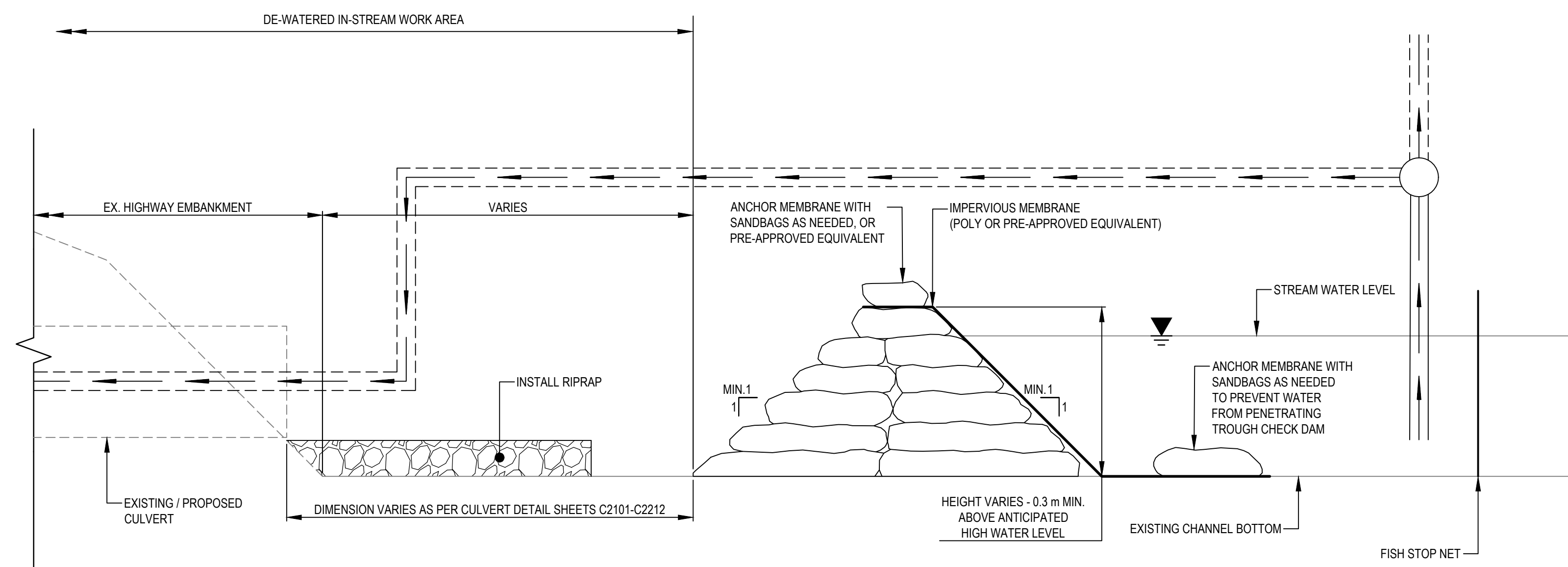
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TYPICAL SECTION OF TEMPORARY CHECK DAM USING SANDBAGS  
(UPSTREAM CHECK DAM ARRANGEMENT SHOWN, MIRROR ARRANGEMENT FOR DOWNSTREAM CHECK DAM)  
SCALE 1:10



0.1 1:10 0.5m

0	ISSUED FOR TENDER	21/07/21
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Client/client

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DRAINAGE IMPROVEMENTS  
ALASKA HIGHWAY, BC**

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Designed by/Concept par  
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Drawn by/Dessine par  
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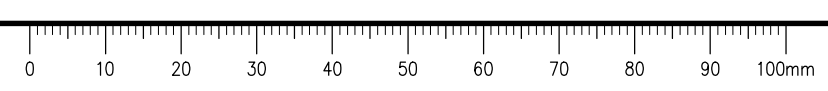
Drawing title/Titre du dessin

**PROPOSED CULVERT:  
ENVIRONMENTAL STAGING  
DRAWINGS - CHECK DAM  
DETAILS**

Project No./No. du projet <b>R.115075.003</b>	Sheet/Fauille <b>C1013</b>	Revision no./ La Révision no. <b>0</b>
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NOTES:  
(1) IF PRE-APPROVED BY THE DEPARTMENTAL REPRESENTATIVE AND THE CONTRACTOR'S ENVIRONMENTAL MONITOR, THE CONTRACTOR MAY UTILIZE EARTH FILL TO CONSTRUCT CHECK DAM. IF AN EARTH FILL CHECK DAM IS UTILIZED THE TURBIDITY LEVELS SHALL REMAIN WITHIN B.C. AQUATIC LIFE WATER QUALITY GUIDELINES FOR TURBIDITY FOR THE DURATION OF EARTH BERM INSTALLATION AND THE EARTH MATERIAL USED AND COMPACTION REQUIREMENTS SHALL BE DESIGNED BY THE ENVIRONMENTAL MONITOR.

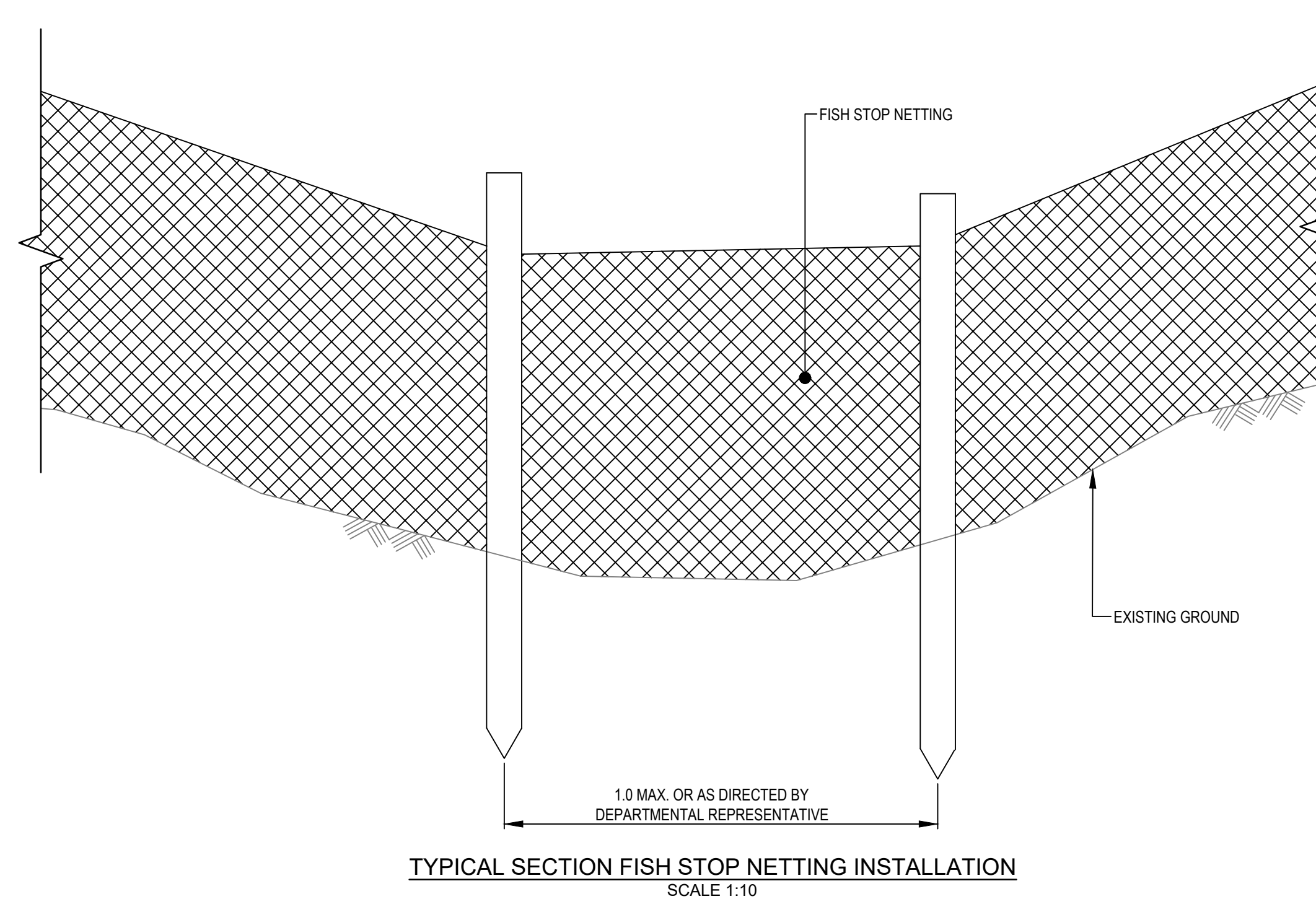
Q:\Vancouver\Transportation\TRN\VHW\03164 Alaska Highway Paving Km 325 - 355 & Km 520 - 555\CAD\Sheets KM 325 Culverts\C1011-C1014 ENVIRONMENTAL STAGING.dwg [C1013] July 21, 2021 - 1:16:53 pm (BY: TAKEDA, TAKUMA)





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TYPICAL SECTION FISH STOP NETTING INSTALLATION  
SCALE 1:10



Revision/Revisión	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/07/21

PUBLIC SERVICES AND PROCUREMENT CANADA



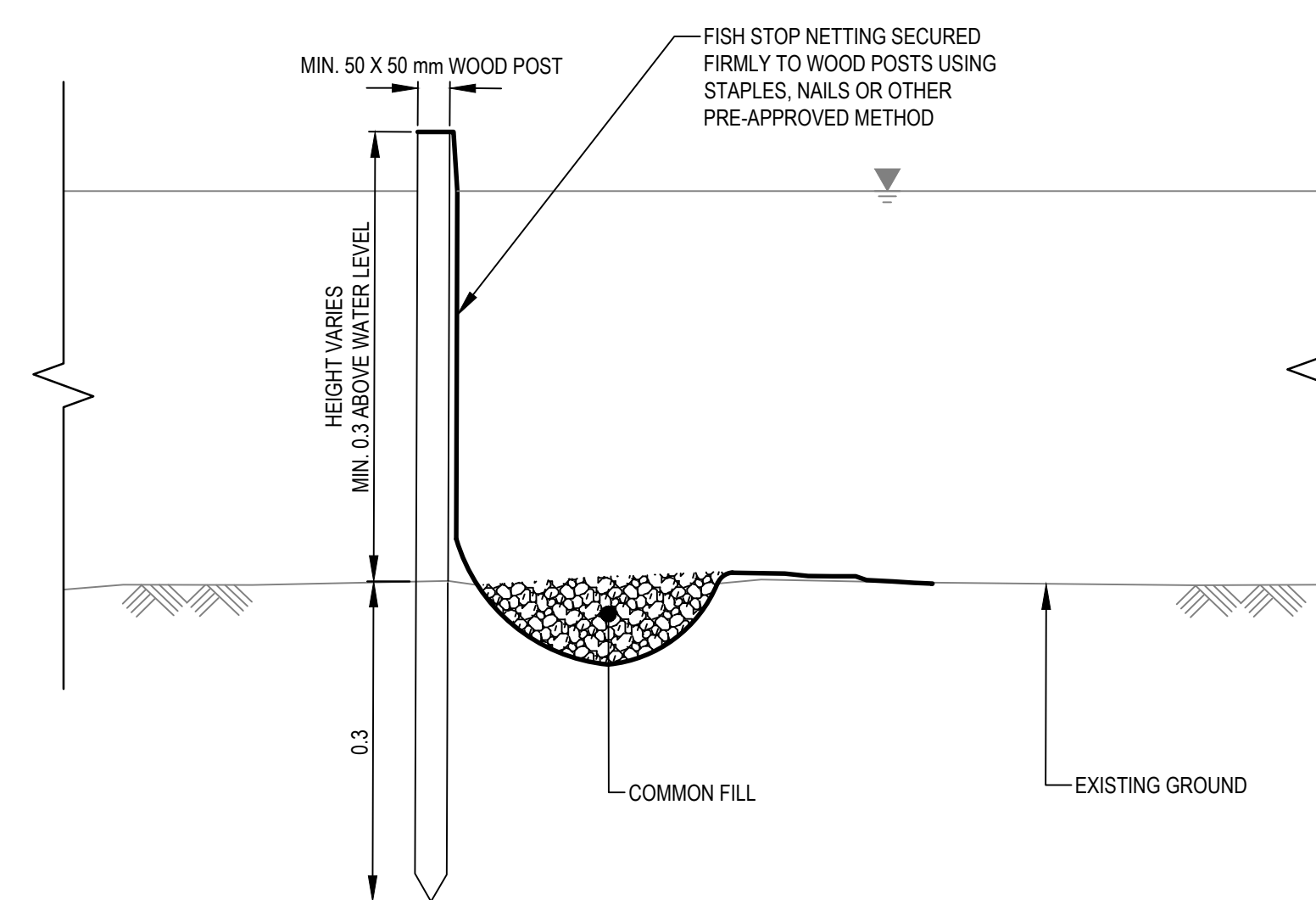
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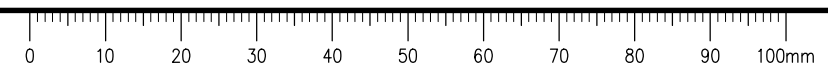
Drawing title/Titre du dessin  
**PROPOSED CULVERT:  
ENVIRONMENTAL STAGING  
DRAWINGS -  
FISH STOP NET DETAILS**

Project No./No. du projet <b>R.115075.003</b>	Sheet/Fauille <b>C1014</b>	Revision no./La Révision no. <b>0</b>
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TYPICAL SECTION FISH STOP NETTING POST AND FABRIC  
SCALE 1:10

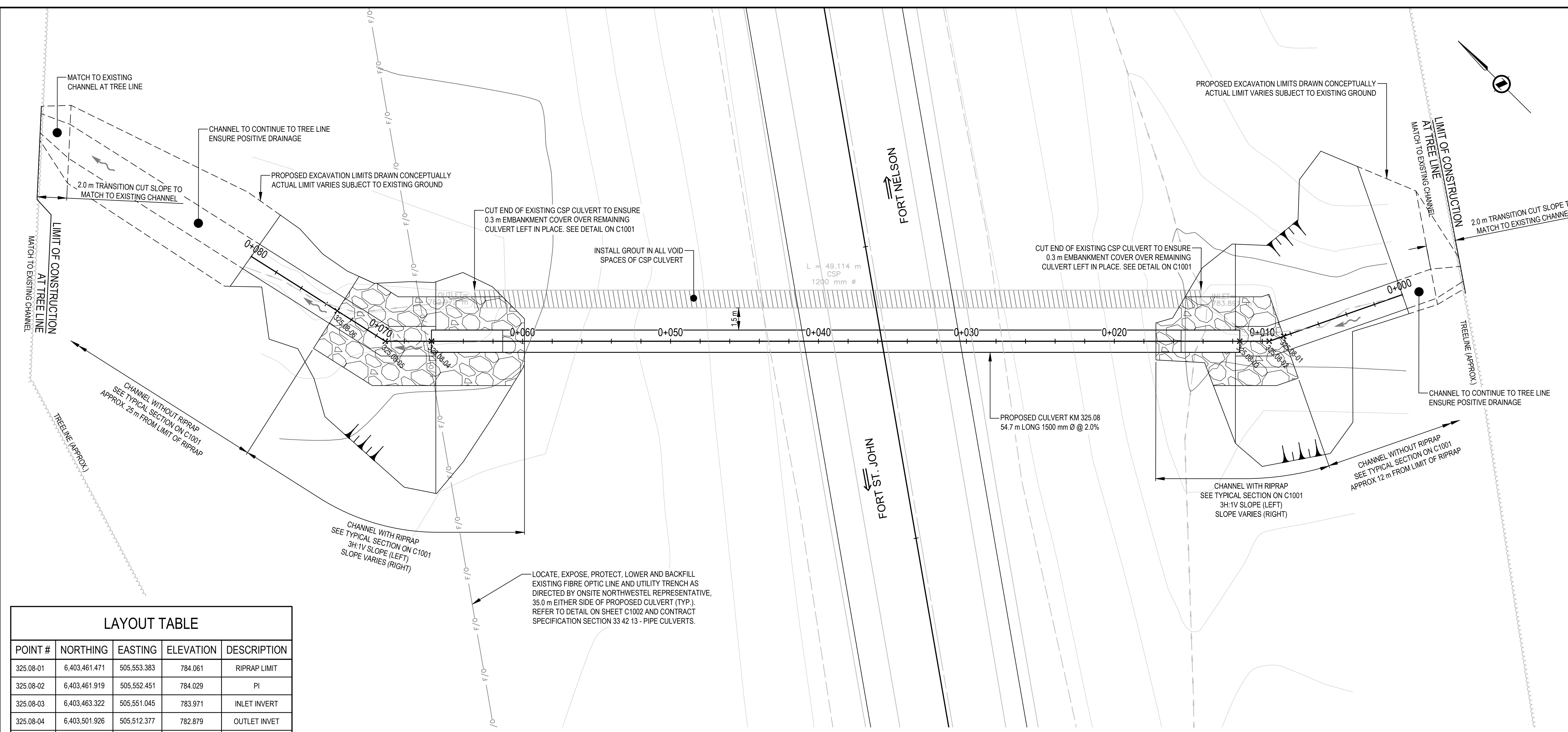
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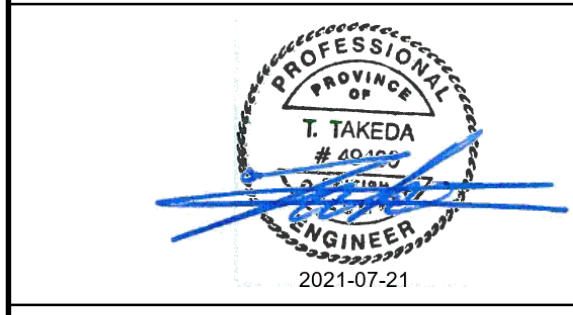
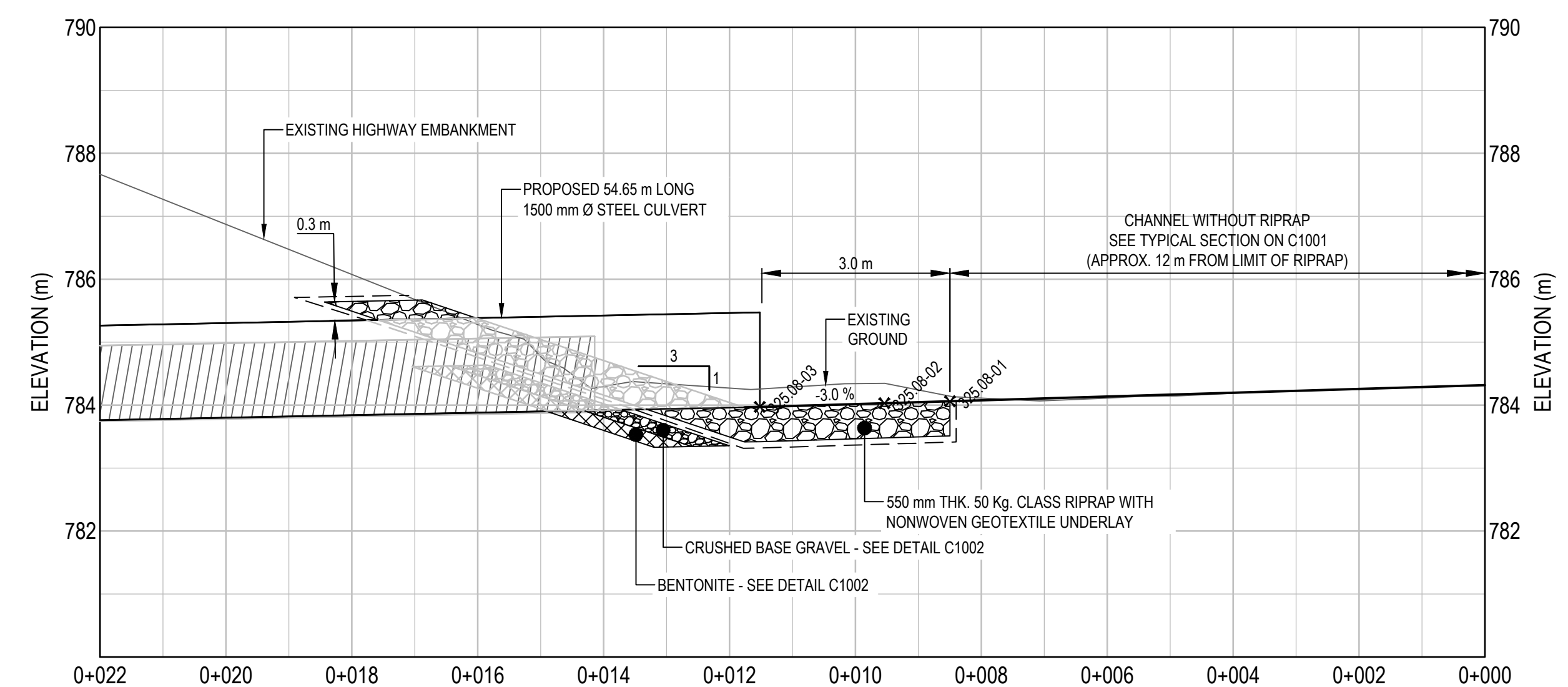
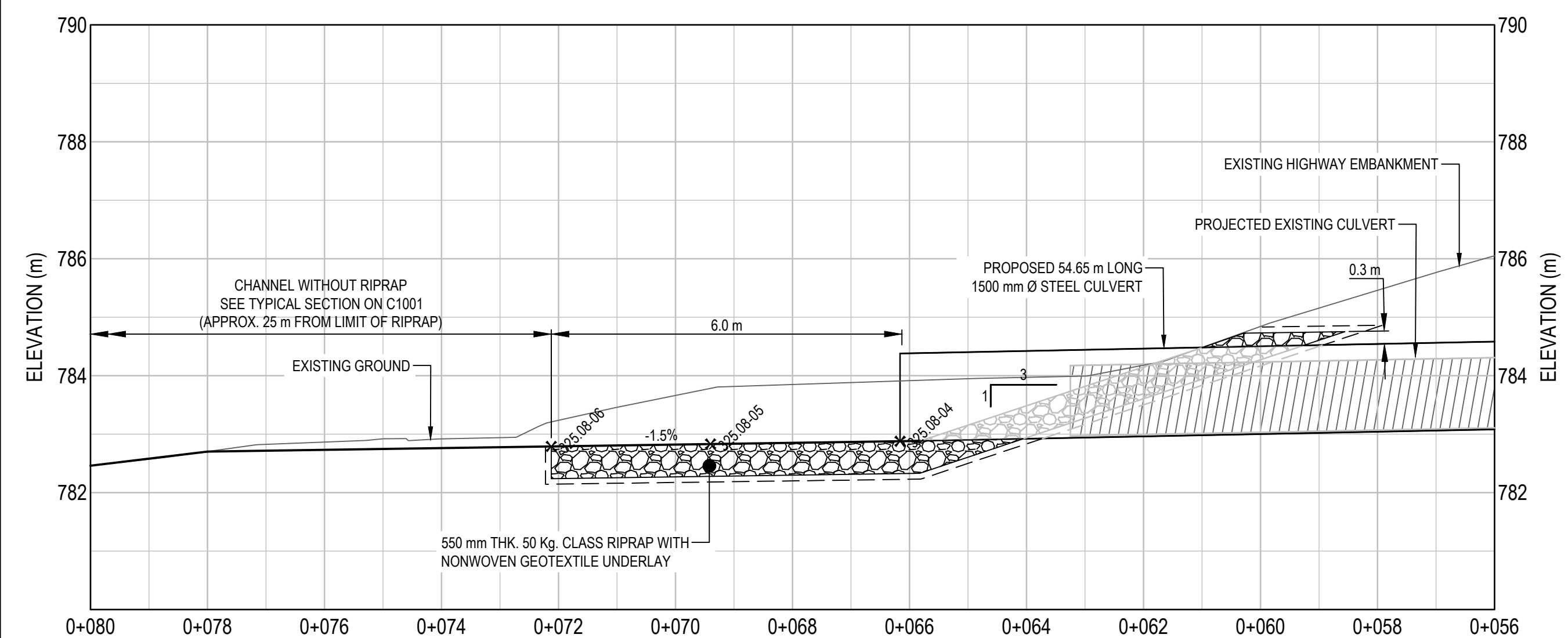


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LAYOUT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
325.08-01	6,403,461.471	505,553.383	784.061	RIPRAP LIMIT
325.08-02	6,403,461.919	505,552.451	784.029	PI
325.08-03	6,403,463.322	505,551.045	783.971	INLET INVERT
325.08-04	6,403,501.926	505,512.377	782.879	OUTLET INVERT
325.08-05	6,403,504.133	505,510.166	782.831	PI
325.08-06	6,403,507.878	505,509.320	782.776	RIPRAP LIMIT



0	ISSUED FOR TENDER	21/07/21
Revision/	Description/Description	Date/Date

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**



Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

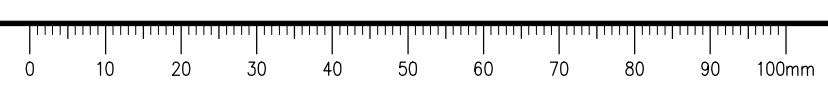
Approved by/Approve par  
**T. TAKEDA**  
 Designed by/Concept par  
**A. DEEPWELL**  
 Drawn by/Dessiné par  
**A. DEEPWELL / J. SCHITTHELM**  
 P.S.P.C. Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**  
 P.S.P.C. Architectural and Engineering Resources Manager/  
 Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

Drawing title/Titre du dessin  
**KM 325.08 CULVERT PLAN / PROFILE**

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
<b>R.115075.003</b>	<b>C2101</b>	<b>0</b>

Q:\Vancouver\Transportation\TRN\VHWY\Projects\TRN\HWY\03\64 Alaska Highway Paving Km 325 - 355 & Km 520 - 555\CAD\Sheets\KM 325\Culverts\C2101-C2132\C2101-C2132.dwg [C2101] July 21, 2021 - 1:46:13 pm (BY: TAKEDA, TAKUMA)





# ISSUED FOR TENDER

- GENERAL NOTES:
1. DIMENSIONS, COORDINATES, ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE.
  2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
  3. ALL DISTURBED AREAS WITHOUT RIPRAP TO BE HYDROSEEDDED.
  4. FOR ADDITIONAL INFORMATION REFER TO CULVERT PLAN AND PROFILE DRAWINGS.



Scale: 1:75 (metres)

Revision/	Description/	Date/
Revised/	Description/	Date/
0	ISSUED FOR TENDER	21/07/21

**PUBLIC SERVICES AND PROCUREMENT CANADA**

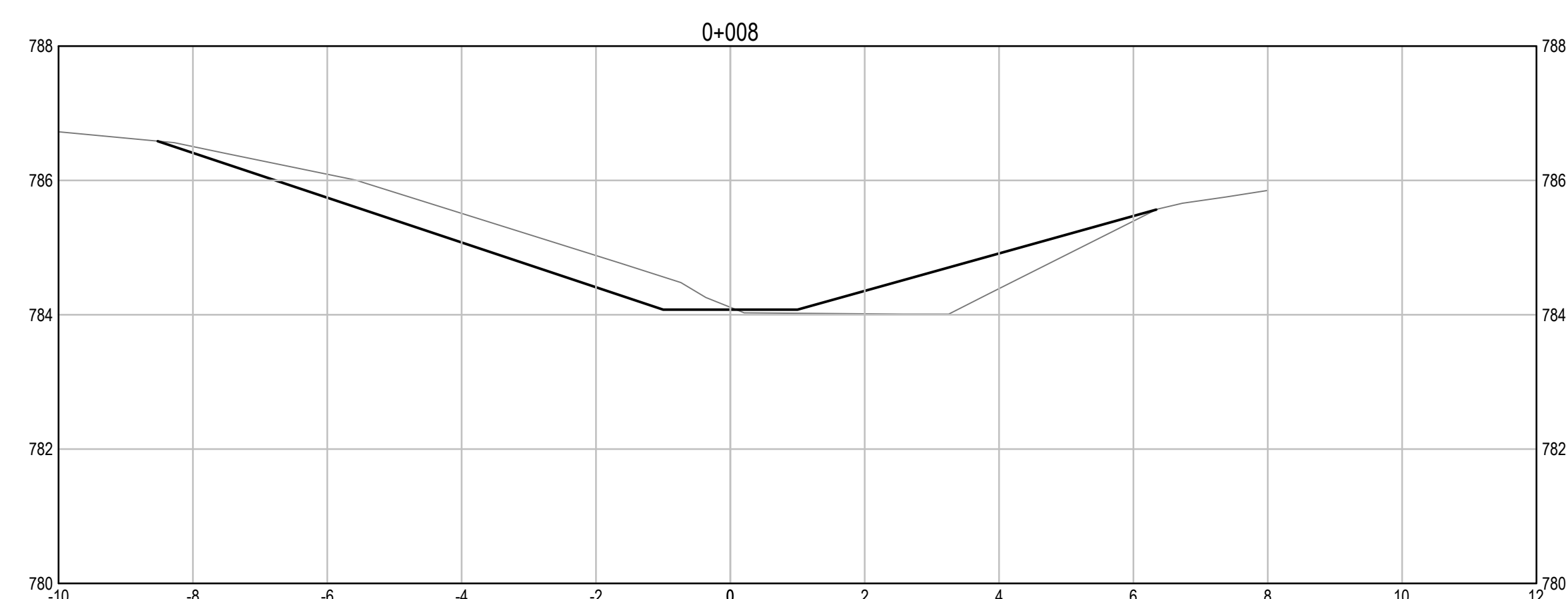
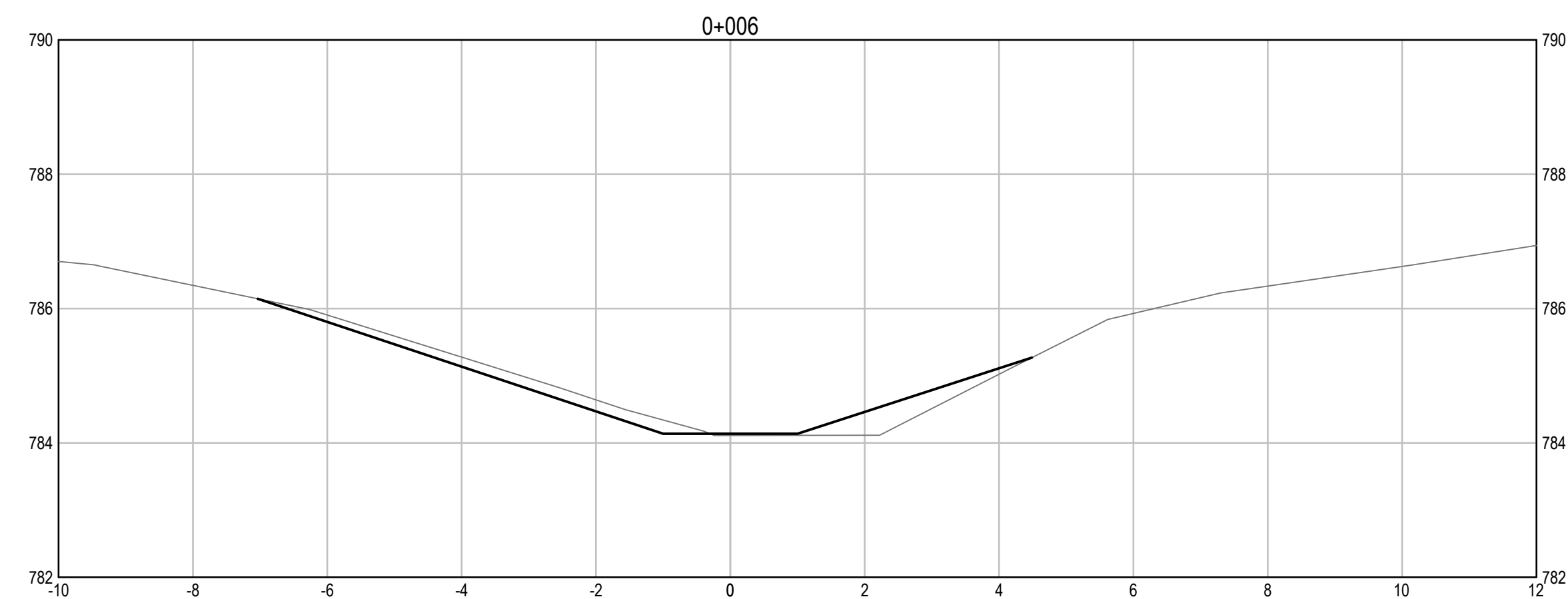
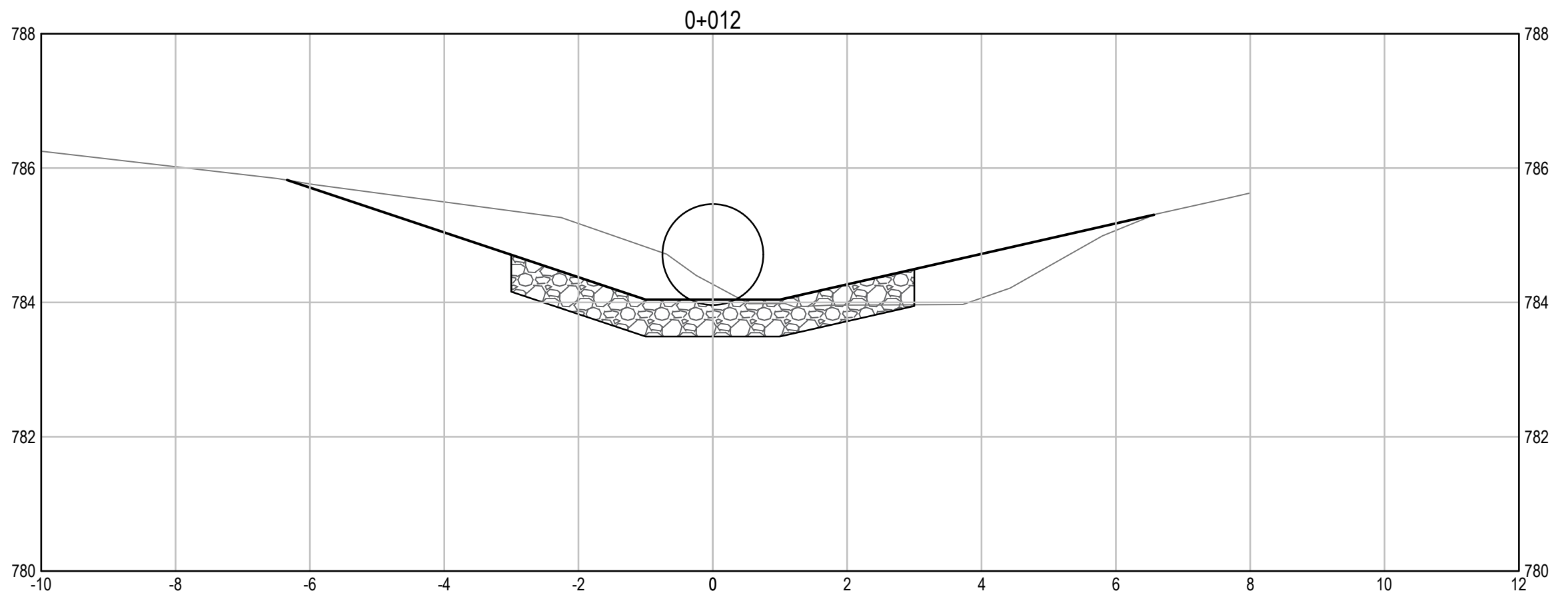
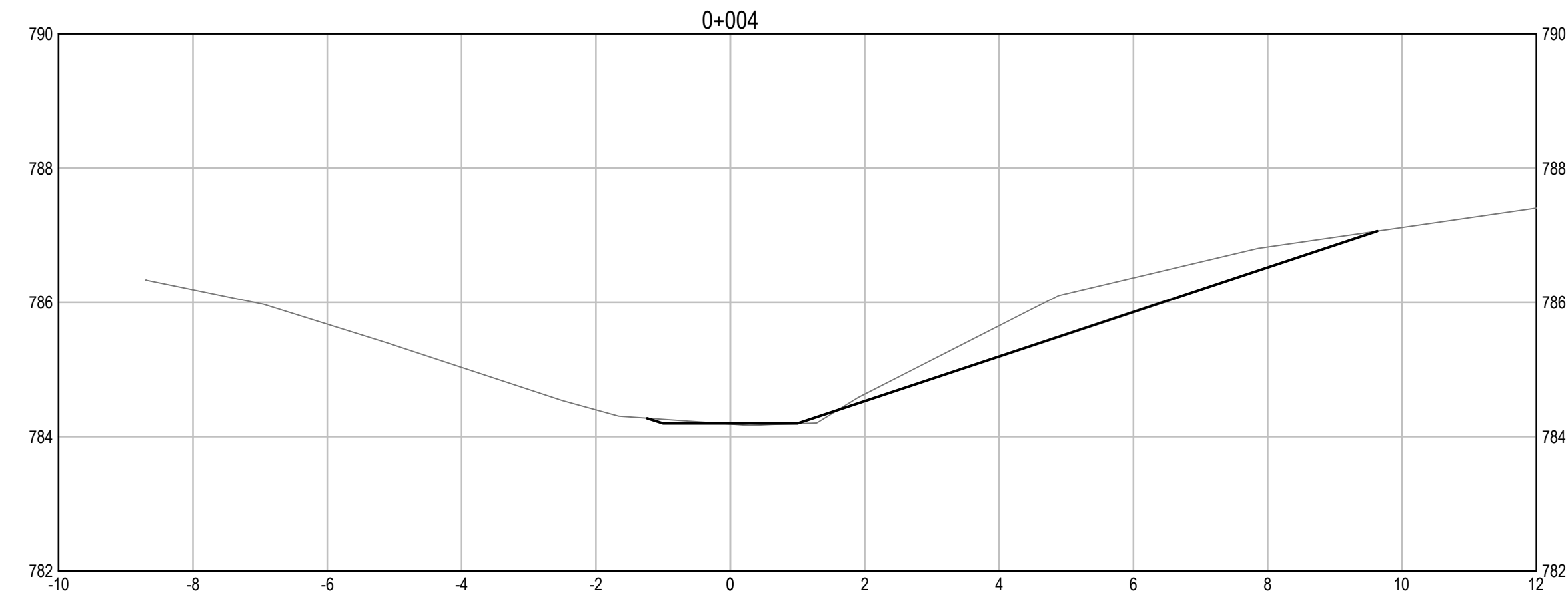
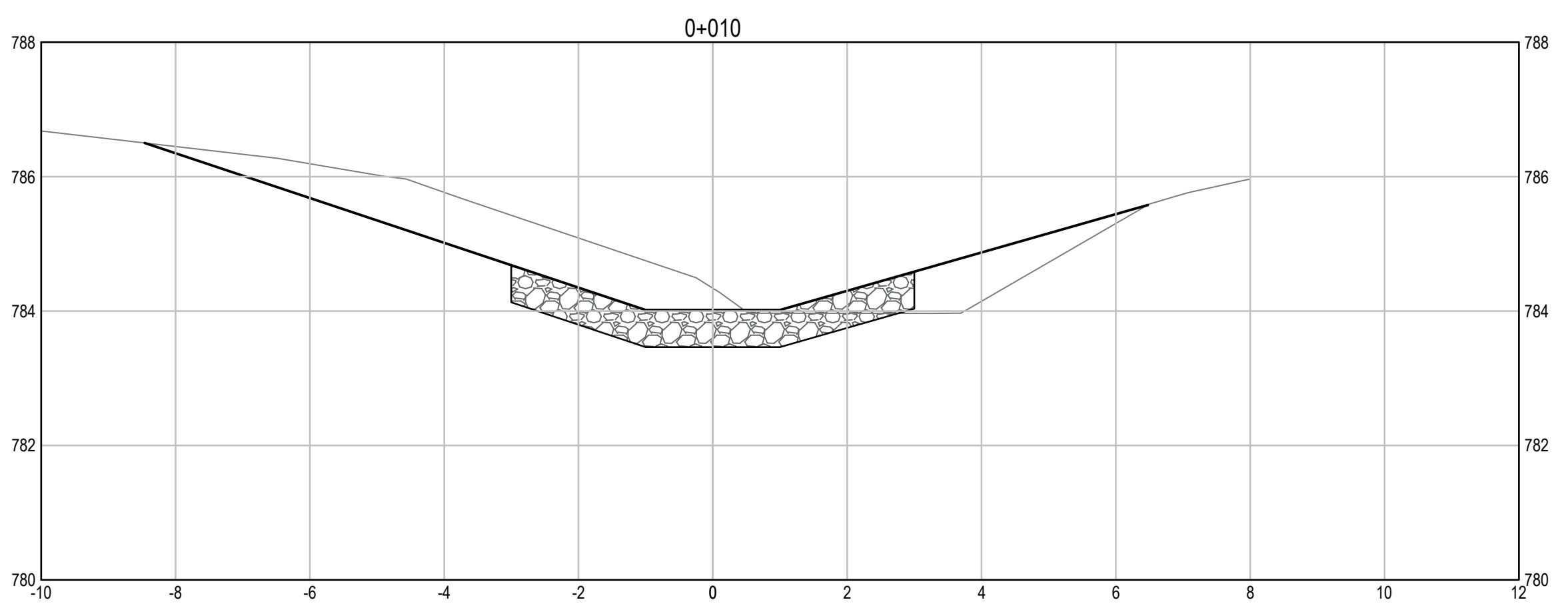
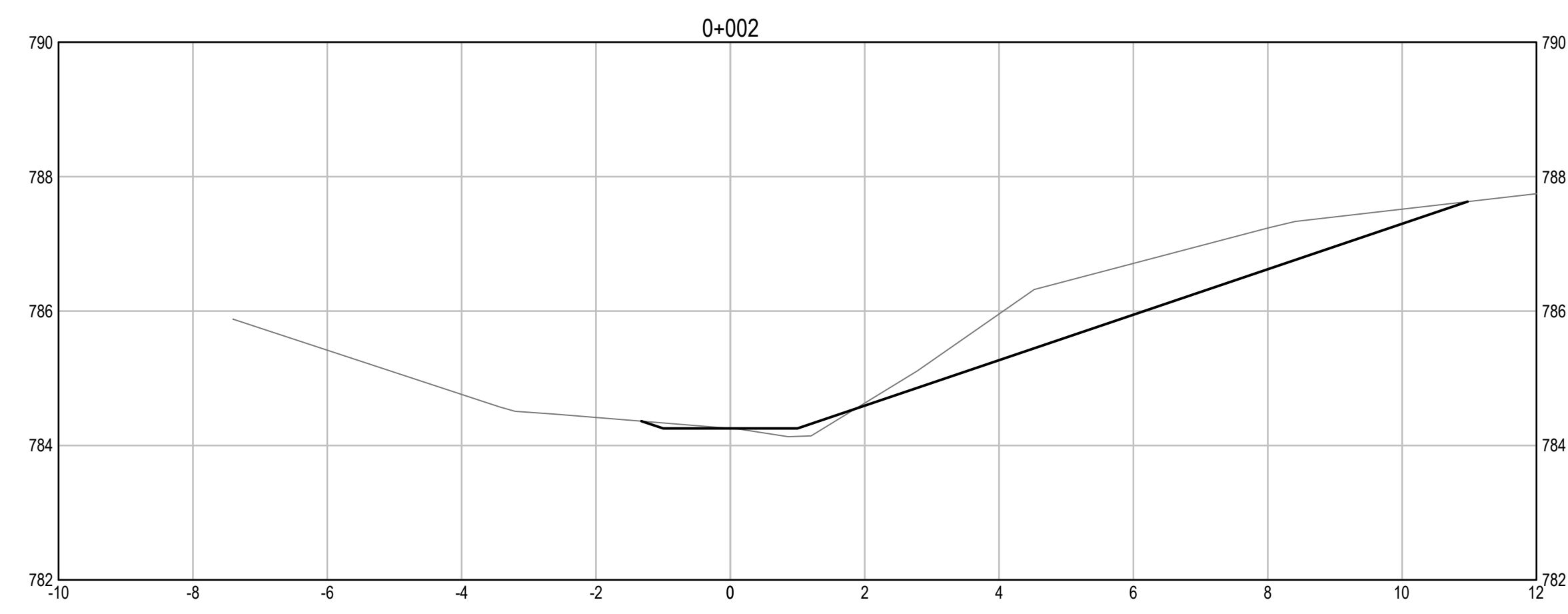


Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

Approved by/Approve par  
**T. TAKEDA**  
Designed by/Concept par  
**A. DEEPWELL**  
Drawn by/Dessine par  
**A. DEEPWELL / J. SCHITTHELM**  
PSPC Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**  
PSPC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSGC

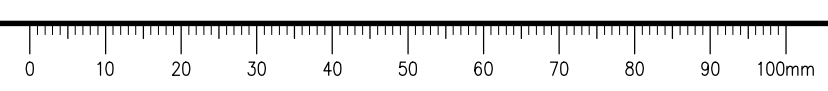
Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**  
Drawing title/Titre du dessin  
**KM 325.08 CULVERT PROPOSED CHANNEL CROSS SECTIONS (1 of 2)**

Project No./No. du projet <b>R.115075.003</b>	Sheet/Fauille <b>C2102</b>	Revision no./La Révision no. <b>0</b>
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## INLET CROSS SECTIONS

SCALE: 1:75

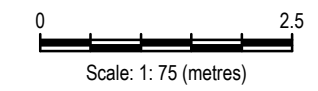
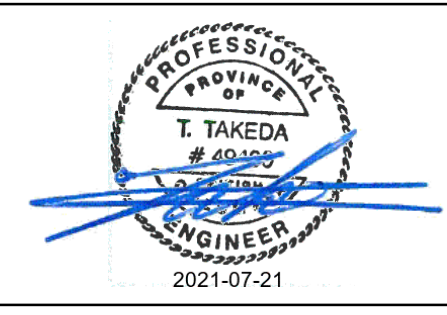


Q:\Vancouver\Transportation\TRN\WHY\Projects\TRN\WHY\03\64 Alaska Highway Paving Km 325 - 355 & Km 520 - 555\CAD\Sheets\KM 325\Culverts\C2101-C2132\KM 325.08 329.84 330.50 331.26 CULVERTS.dwg [C2102] July 21, 2021 - 1:46:38 pm [BY: TAKEDA, TAKUMA]



# ISSUED FOR TENDER

- GENERAL NOTES:
- DIMENSIONS, COORDINATES, ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE.
  - THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
  - ALL DISTURBED AREAS WITHOUT RIPRAP TO BE HYDROSEEDDED.
  - FOR ADDITIONAL INFORMATION REFER TO CULVERT PLAN AND PROFILE DRAWINGS.



Revision/Édition	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/07/21

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**



Project title/Titre du projet  
**KM 325 - 355  
 DRAINAGE IMPROVEMENTS  
 ALASKA HIGHWAY, BC**

Approved by/Approuvé par  
**T. TAKEDA**

Designed by/Concept par  
**A. DEEPWELL**

Drawn by/Dessiné par  
**A. DEEPWELL / J. SCHITTHELM**

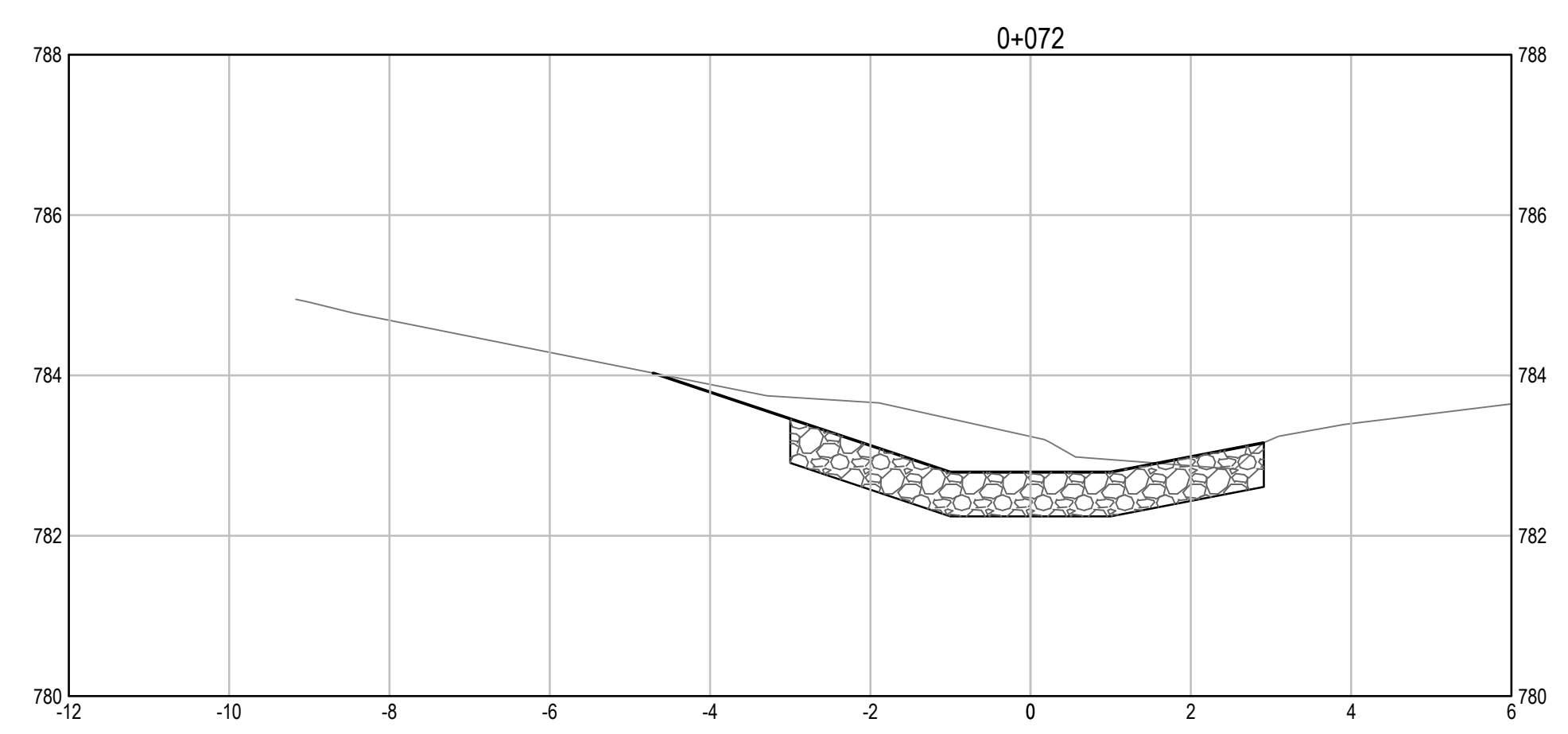
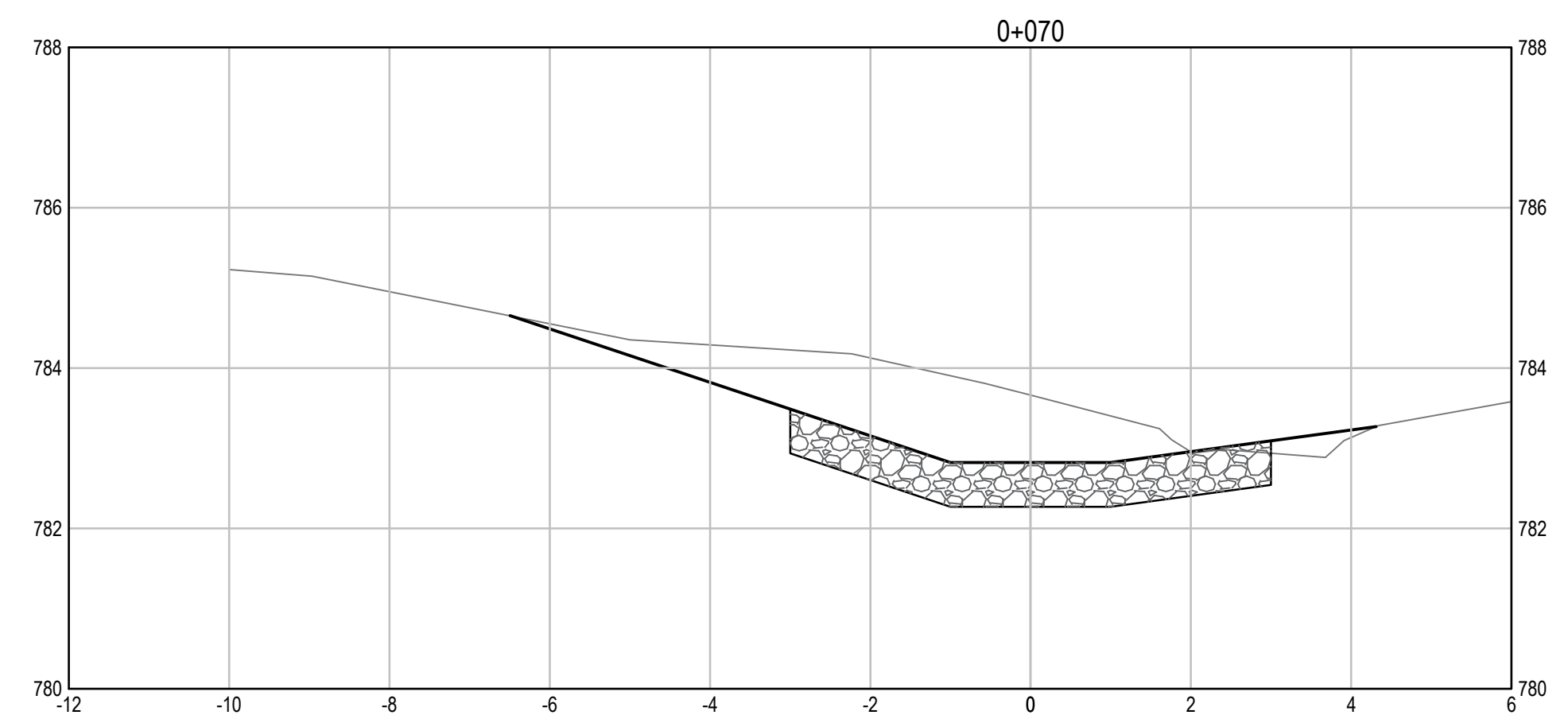
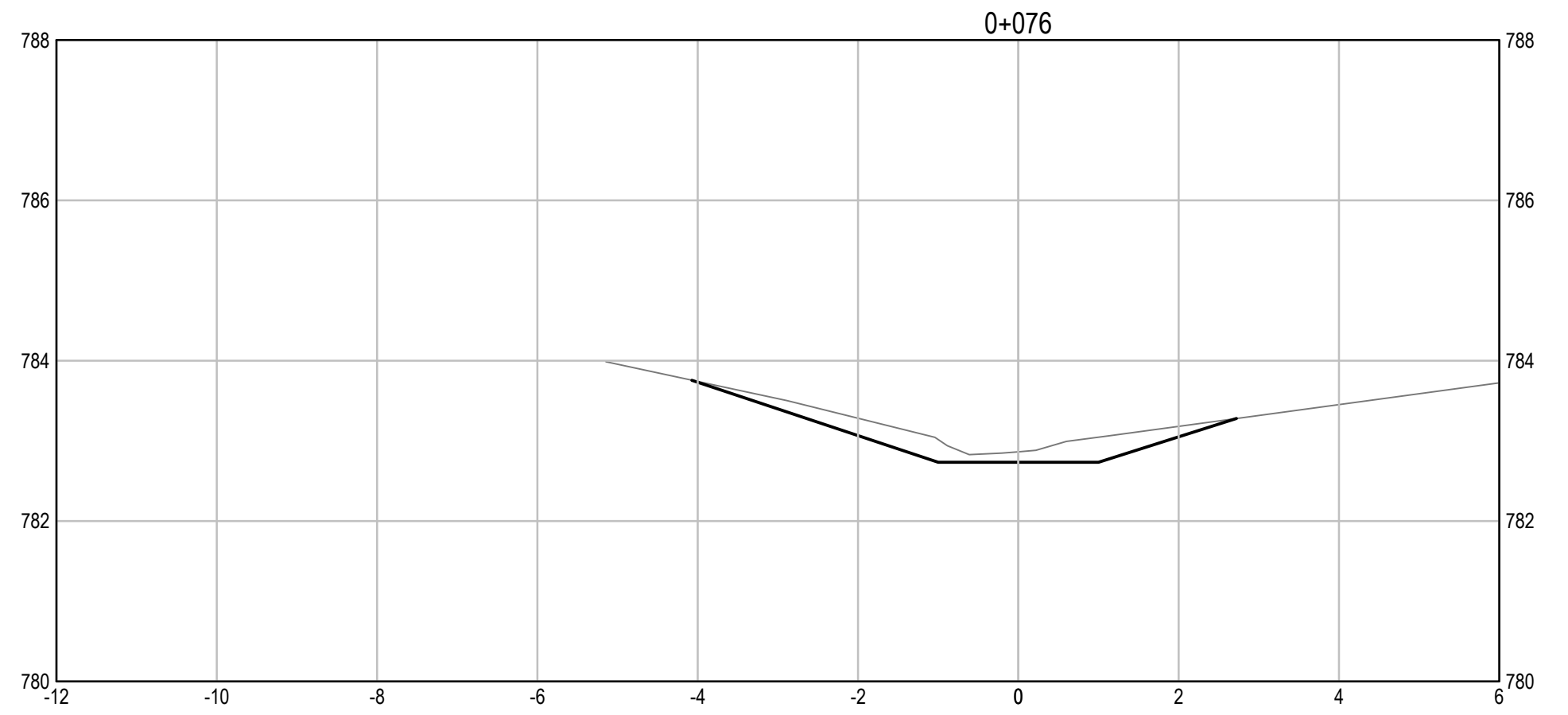
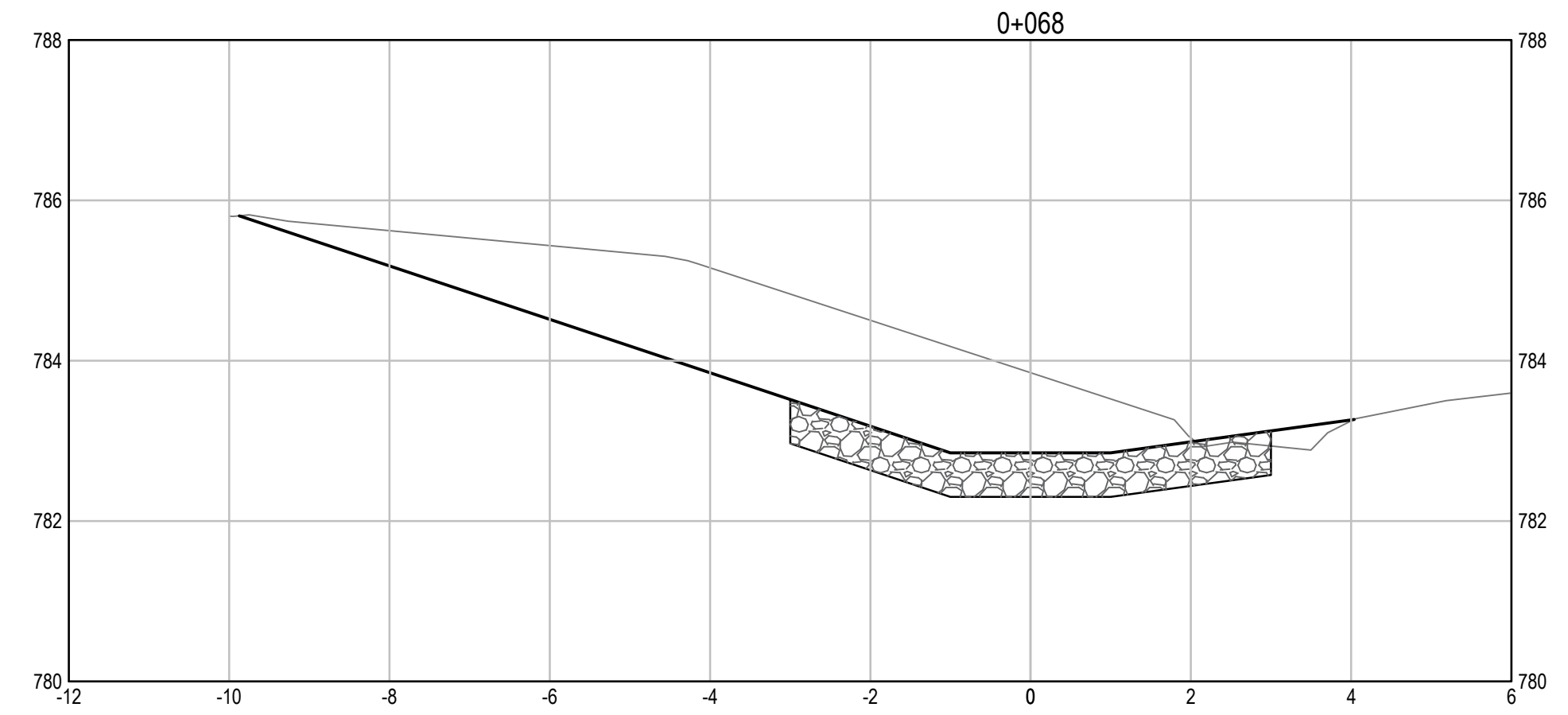
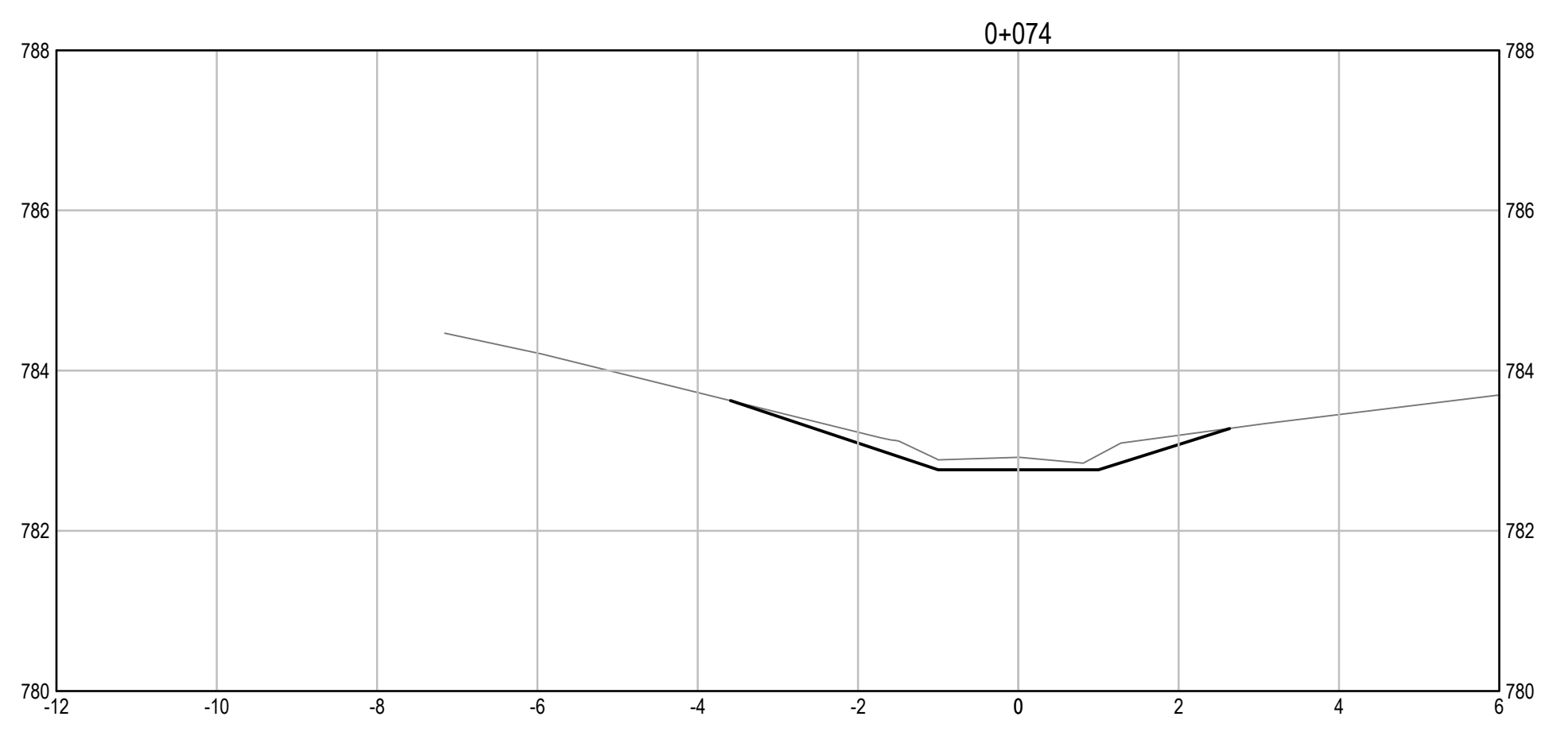
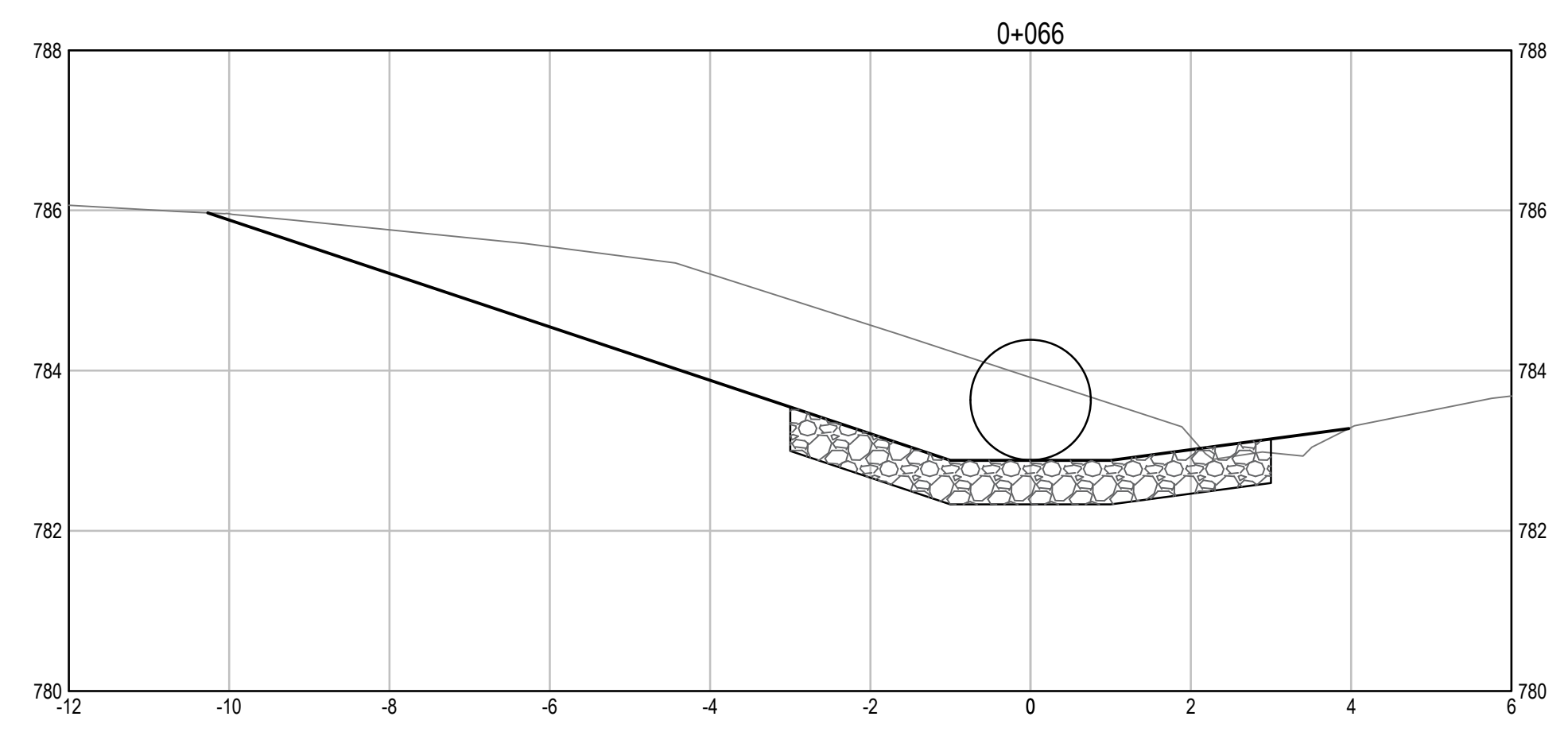
PSPC Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**

PSPC, Architectural and Engineering Resources Manager/  
 Ressources Architectural et de Directeur d'Ingénierie, TPSGC

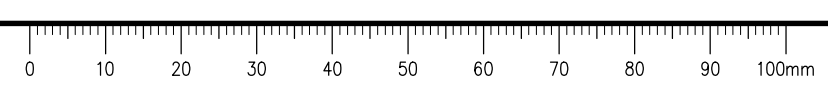
Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

Drawing title/Titre du dessin  
**KM 325.08 CULVERT  
 PROPOSED CHANNEL  
 CROSS SECTIONS  
 (2 of 2)**

Project No./No. du projet <b>R.115075.003</b>	Sheet/Fauille <b>C2103</b>	Revision no./La Révision no. <b>0</b>
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**OUTLET CROSS SECTIONS**  
 SCALE: 1:75



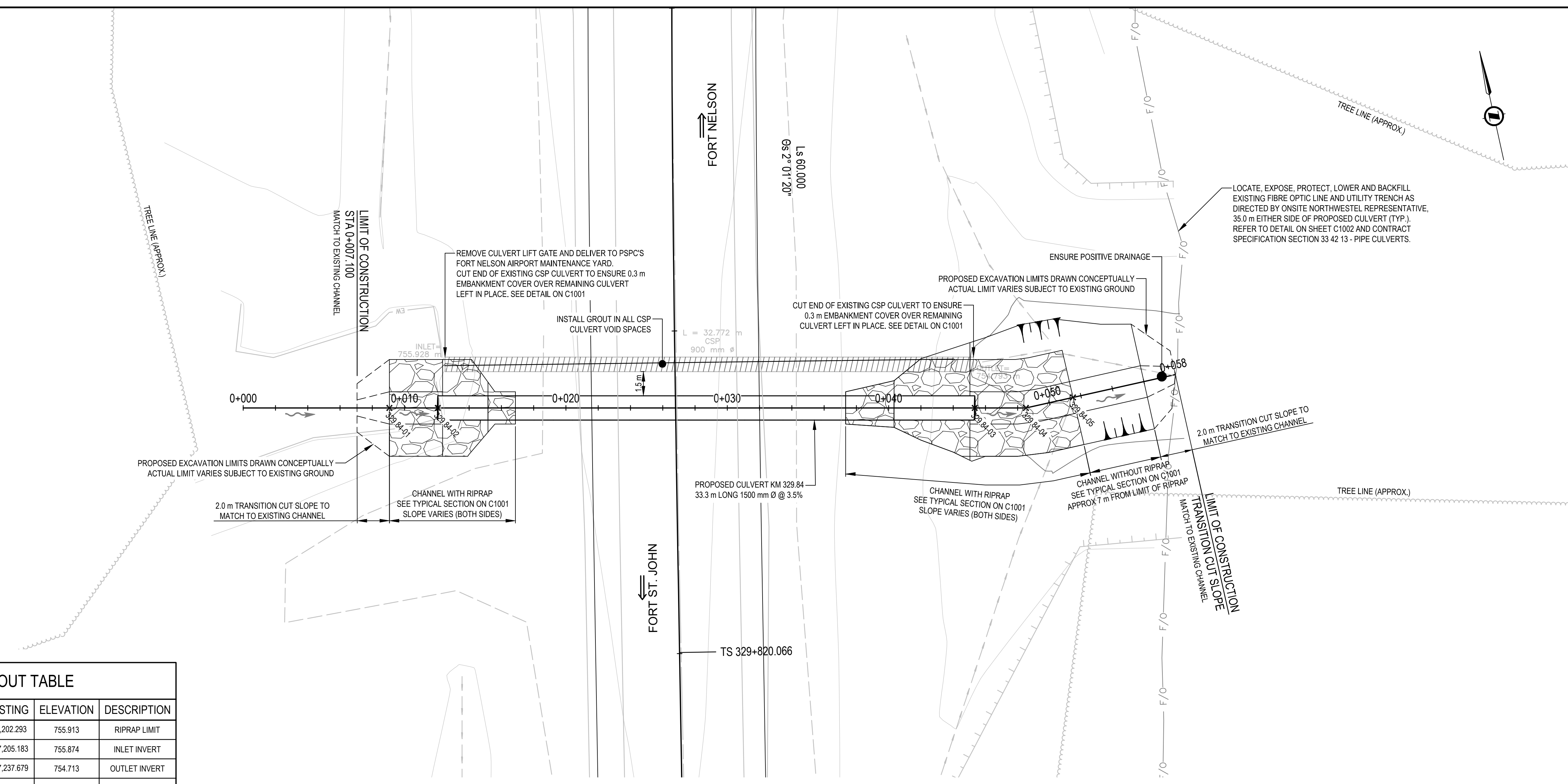
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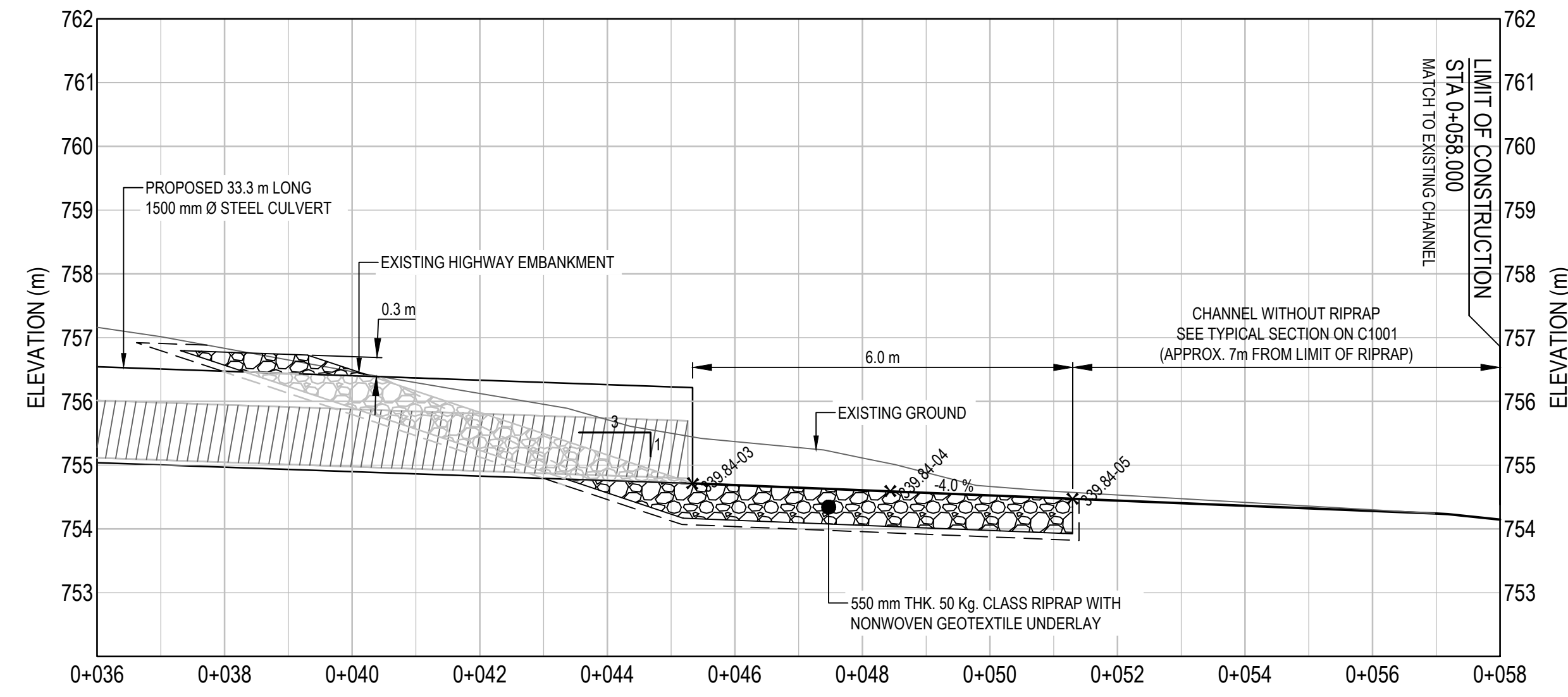
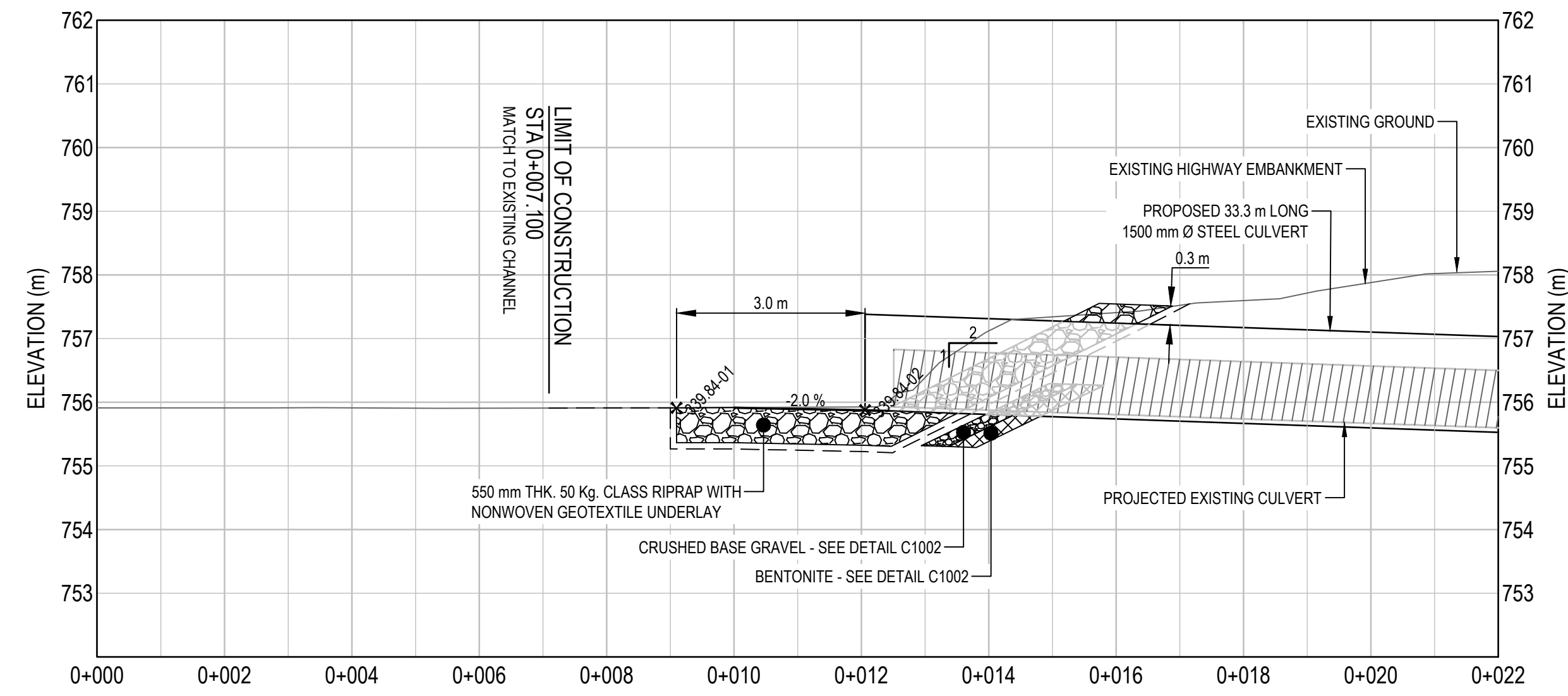
**ISSUED FOR TENDER**

- GENERAL NOTES:  
 1. DIMENSIONS, COORDINATES, ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE.  
 2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.  
 3. ALL DISTURBED AREAS WITHOUT RIPRAP TO BE HYDROSEEDED.  
 4. FOR ADDITIONAL INFORMATION REFER TO CULVERT PLAN AND PROFILE DRAWINGS.



LAYOUT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
329.84-01	6,407,846.437	507,202.293	755.913	RIPRAP LIMIT
329.84-02	6,407,845.799	507,205.183	755.874	INLET INVERT
329.84-03	6,407,838.622	507,237.679	754.713	OUTLET INVERT
329.84-04	6,407,837.938	507,240.776	754.585	PI
329.84-05	6,407,837.944	507,243.767	754.464	RIPRAP LIMIT



A 0	ISSUED FOR TENDER	21/07/21
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Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**



Project Title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

Approved by/Approve par  
**T. TAKEDA**  
 Designed by/Concept par  
**A. DEEPWELL**  
 Drawn by/Dessiné par  
**A. DEEPWELL / J. SCHITTHELM**  
 PSPC Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**

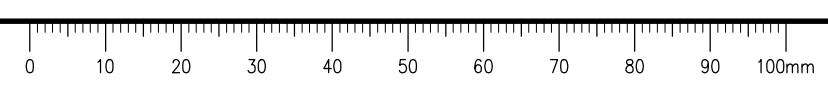
PSPC, Architectural and Engineering Resources Manager/  
 Ressources Architecturales et de Directeur d'Ingénierie, TPSGC

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

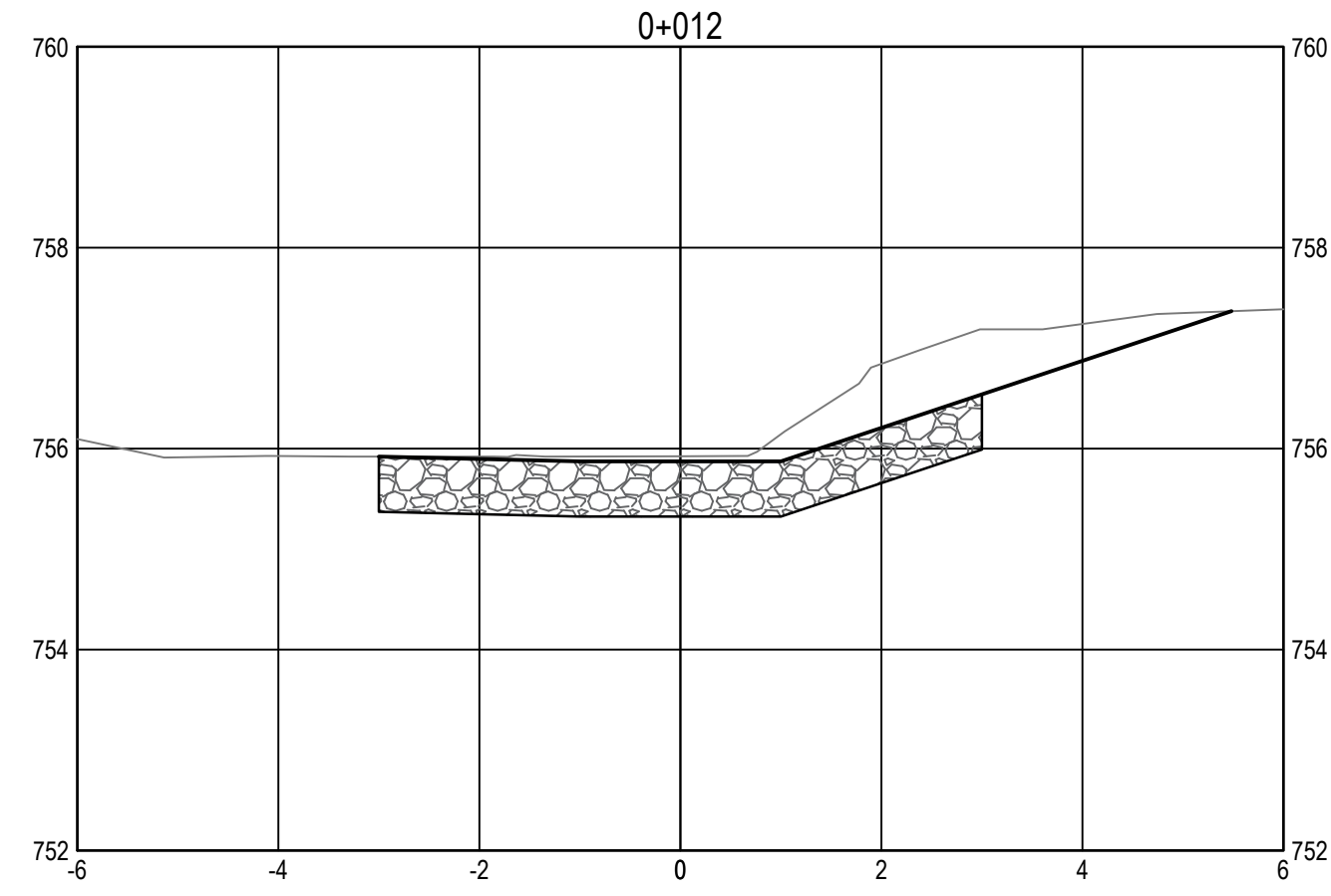
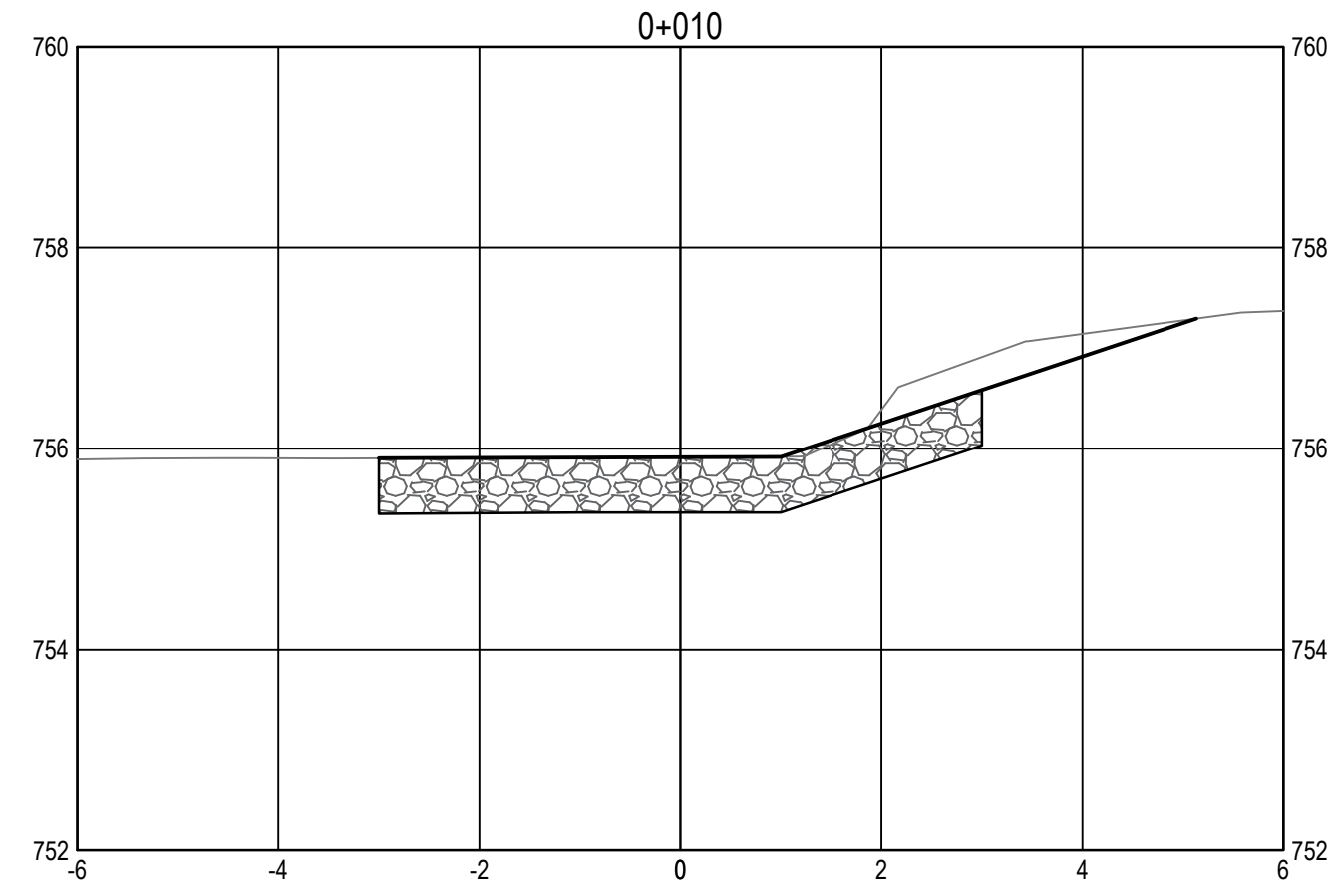
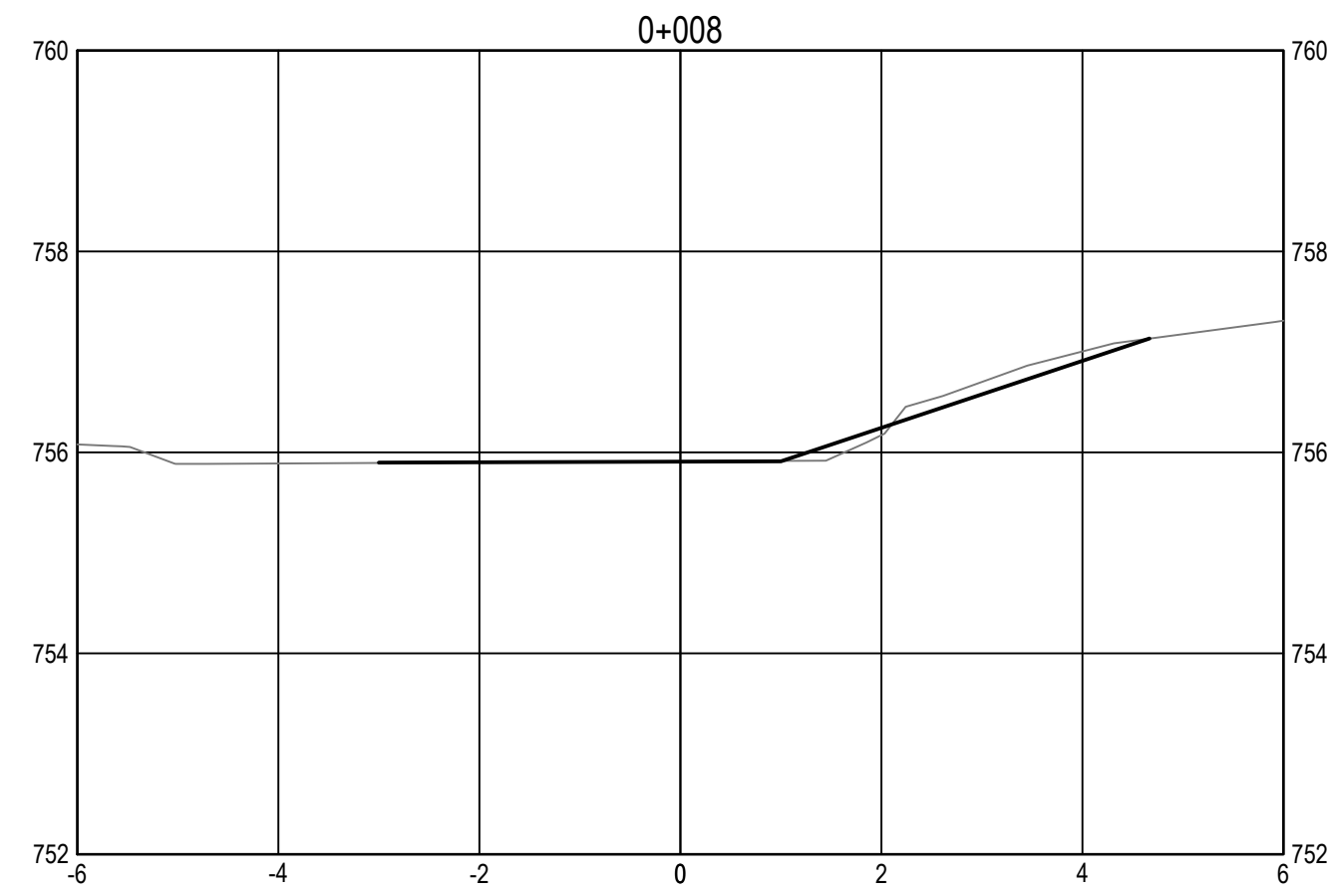
Drawing Title/Titre du dessin  
**KM 329.84 CULVERT PLAN / PROFILE**

Project No./No. du projet <b>R.115075.003</b>	Sheet/Feuille <b>C2111</b>	Revision no./La Révision no. <b>0</b>
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Q:\Vancouver\Transportation\TRN\HWY03\64 Alaska Highway Paving Km 325 - 355 & km 520 - 555\CAD\Sheets\KM 325 Culverts\C2111 July 21, 2021 - 14:21 pm (BY: TAKEDA, TAKUMA)

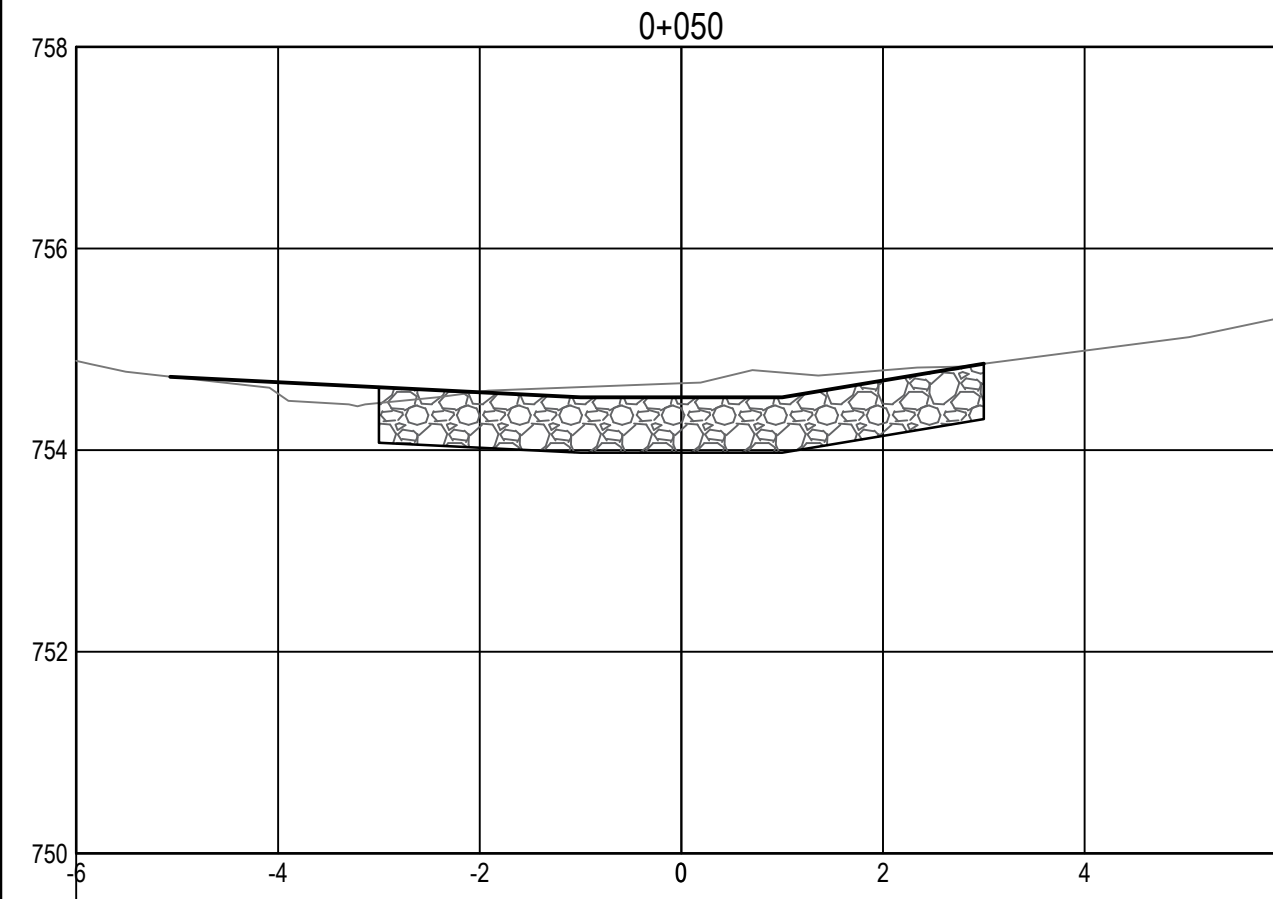
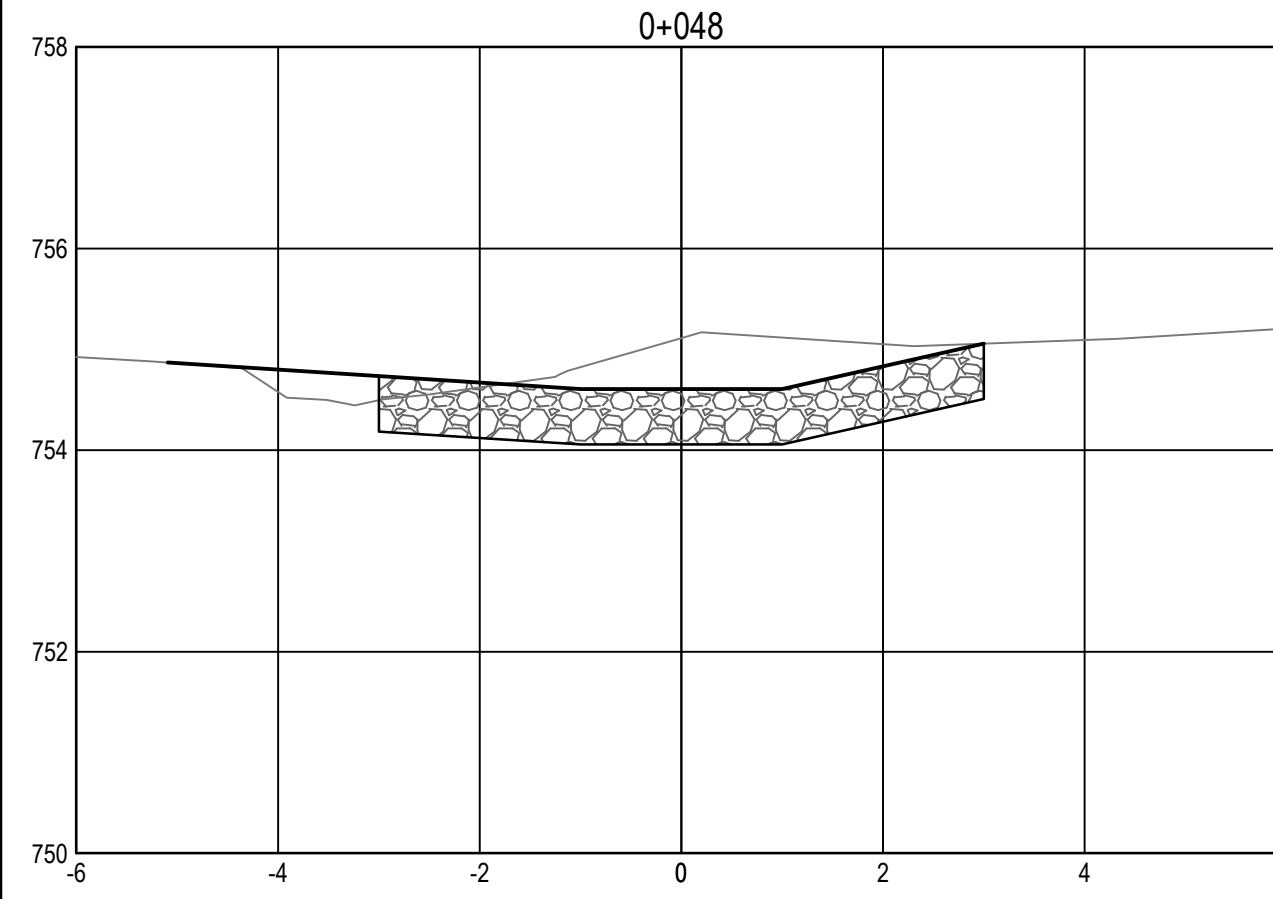
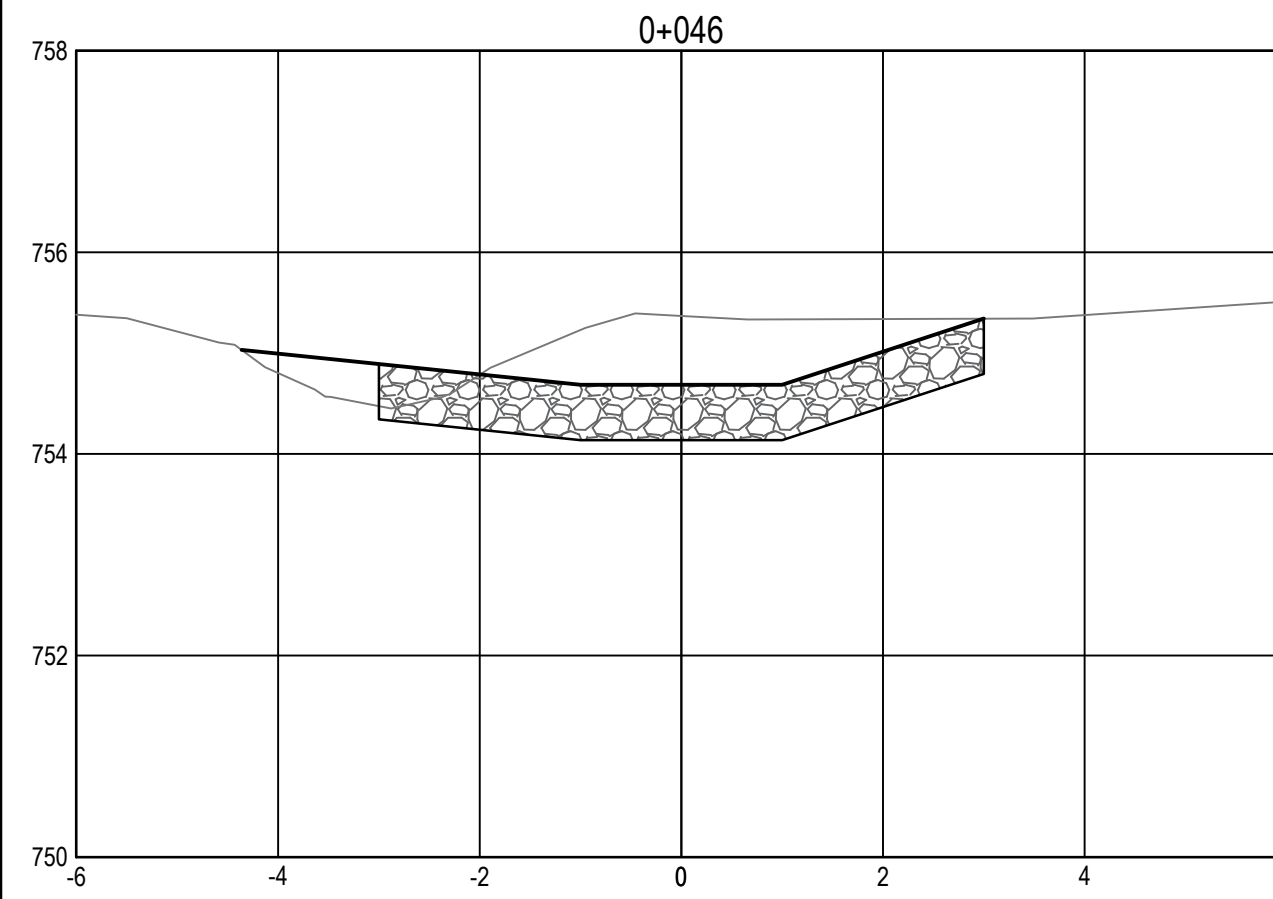


Q:\Vancouver\Transportation\TRN\WY03\64 Alaska Highway Paving Km 325 - 355 & Km 520 - 555\CAD\Sheets Km 325 Culverts\101-C2132 KM 325 Culverts.dwg [C2112] July 21, 2021 - 1:48:58 pm (BY: TAKEDA, TAKUMA)



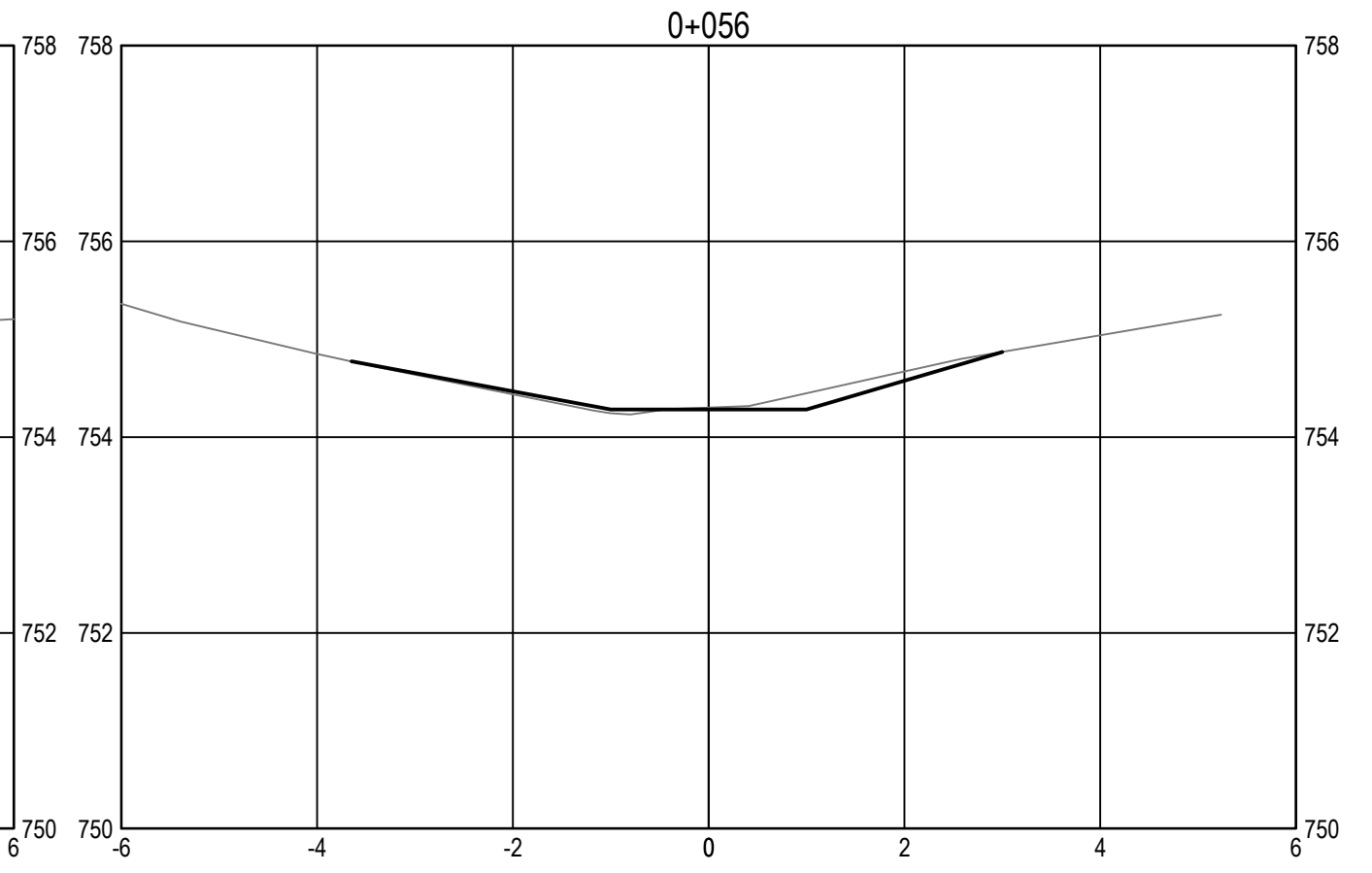
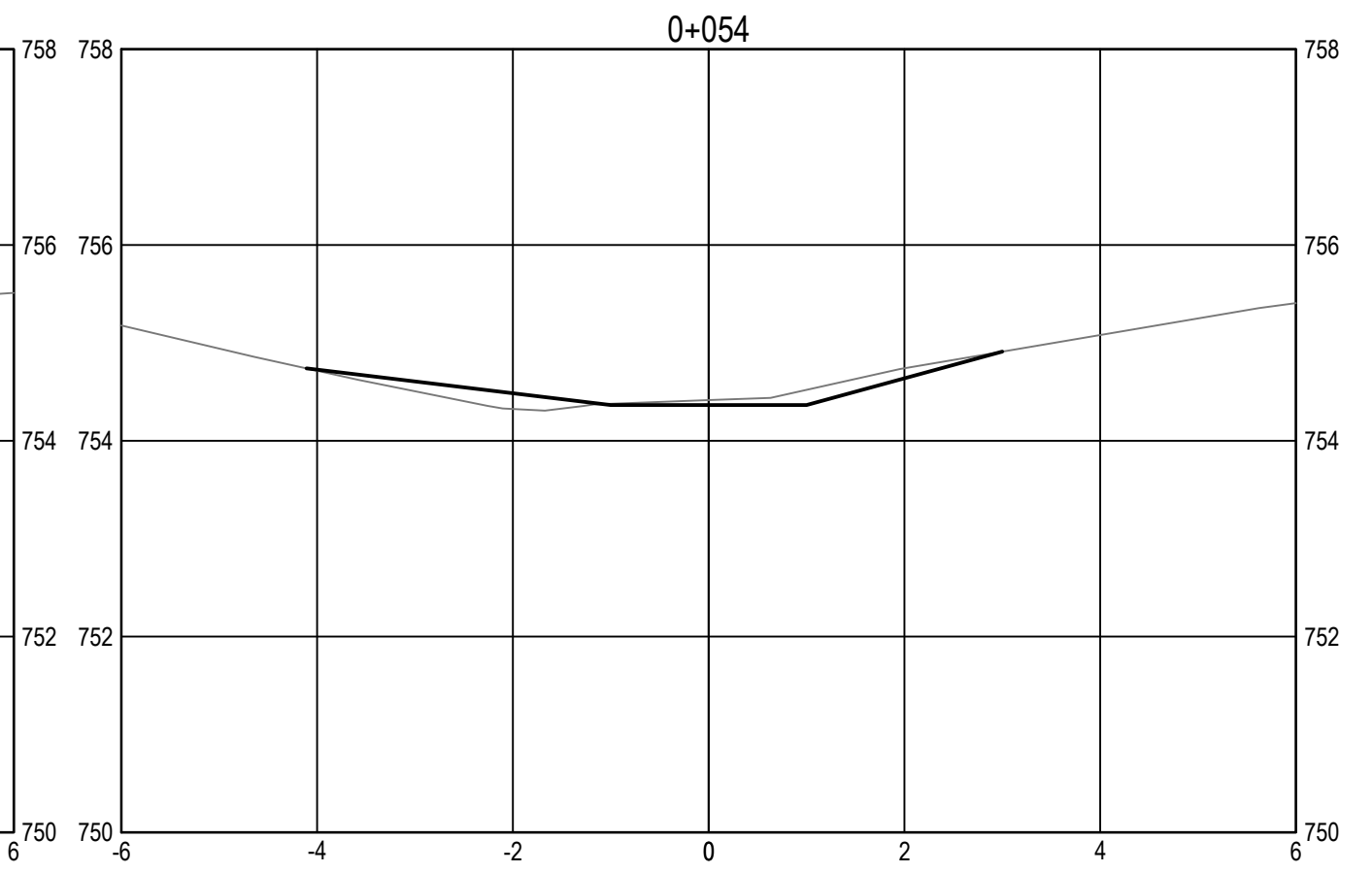
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INLET CROSS SECTIONS  
SCALE: 1:75



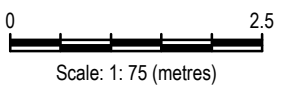
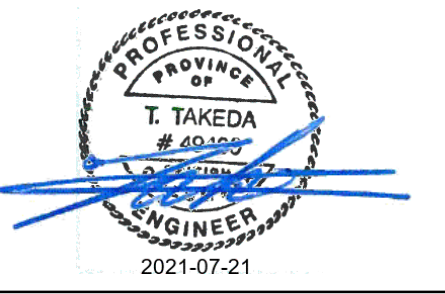
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OUTLET CROSS SECTIONS  
SCALE: 1:75



**ISSUED FOR TENDER**

- GENERAL NOTES:  
 1. DIMENSIONS, COORDINATES, ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE.  
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Revision/Évaluation	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/07/21

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**



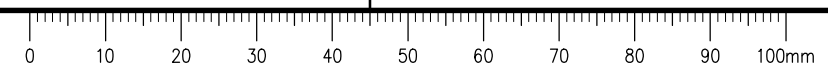
Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

Approved by/Approve par  
**T. TAKEDA**  
 Designed by/Concept par  
**A. DEEPWELL**  
 Drawn by/Dessiné par  
**A. DEEPWELL / J. SCHITTHELM**  
 PSPC Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**  
 PSPC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSGC

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

Drawing title/Titre du dessin  
**KM 329.84 CULVERT PROPOSED CHANNEL CROSS SECTIONS**

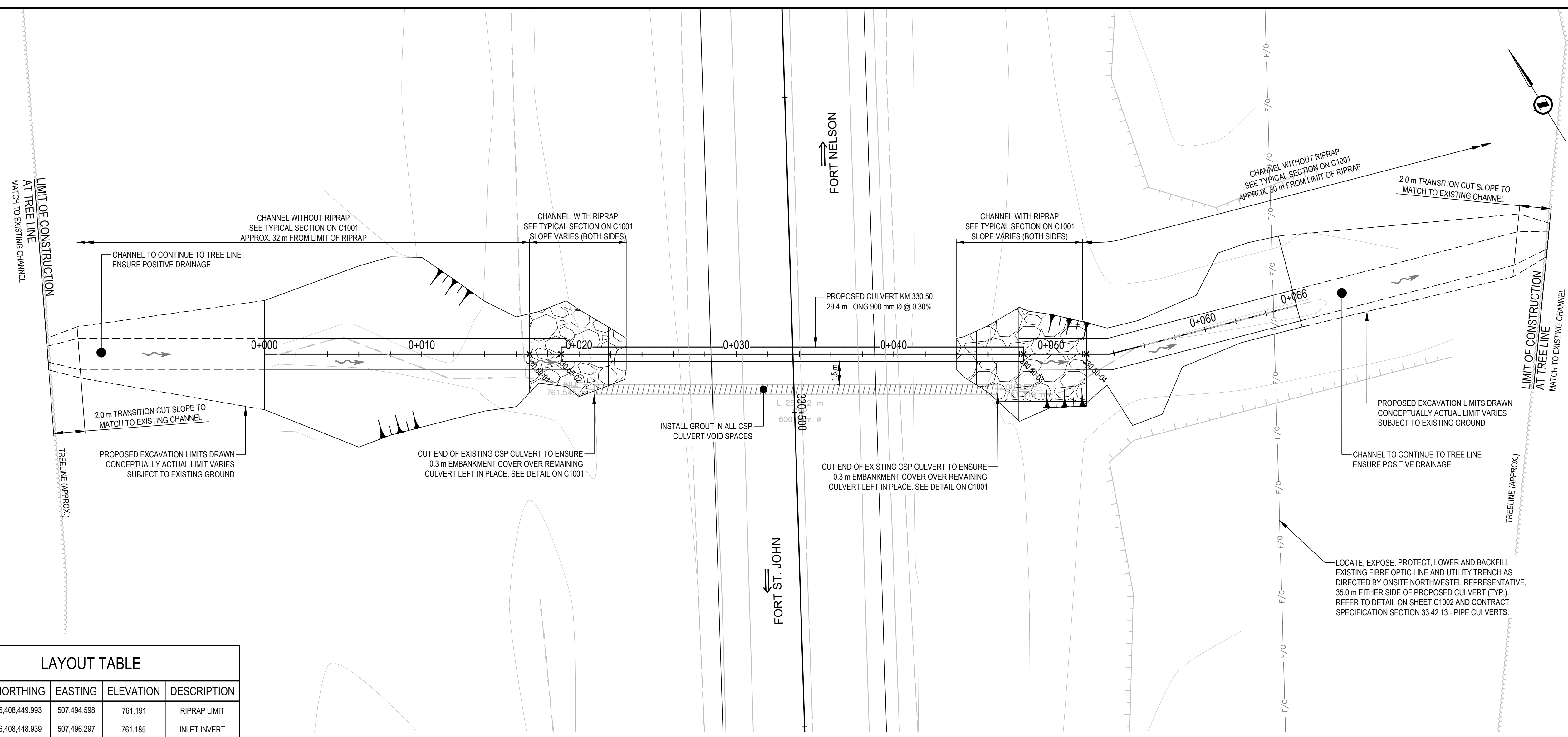
Project No./No. du projet <b>R.115075.003</b>	Sheet/Feuille <b>C2112</b>	Revision no./La Révision no. <b>0</b>
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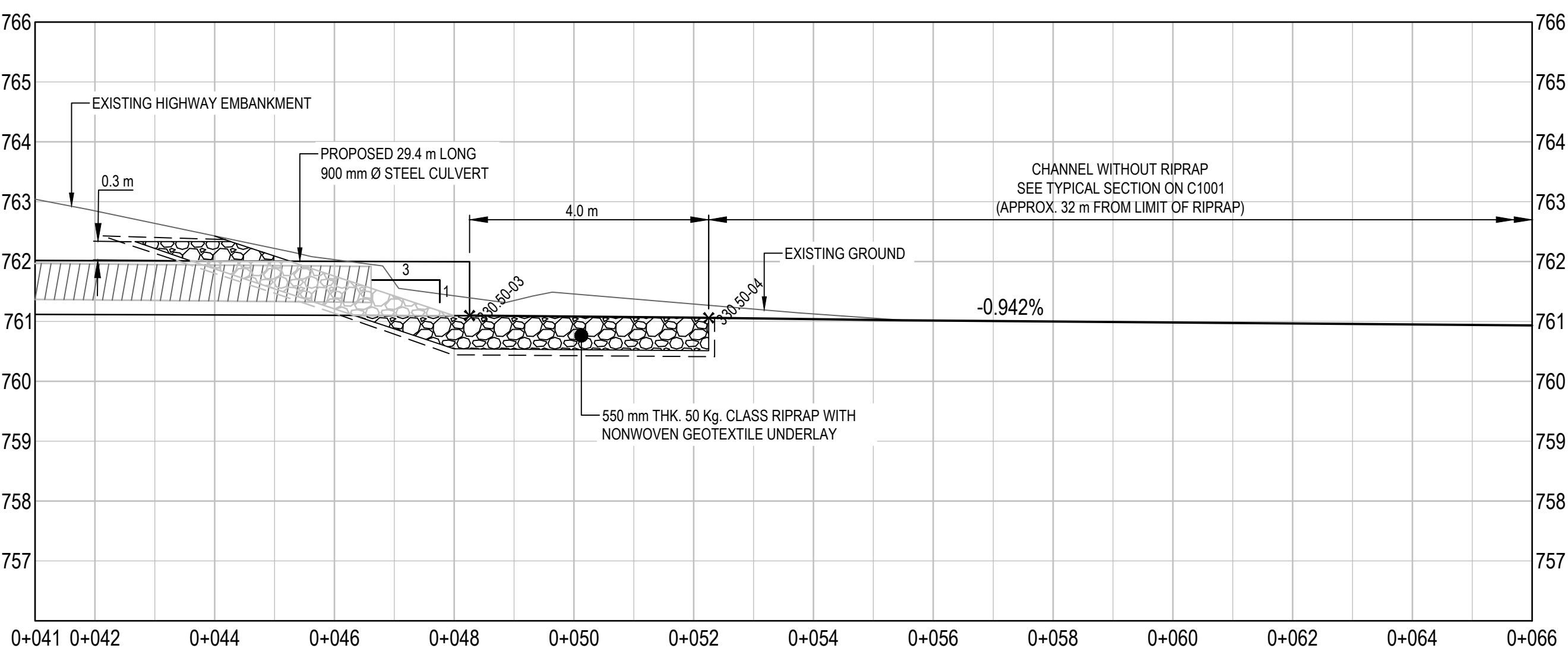
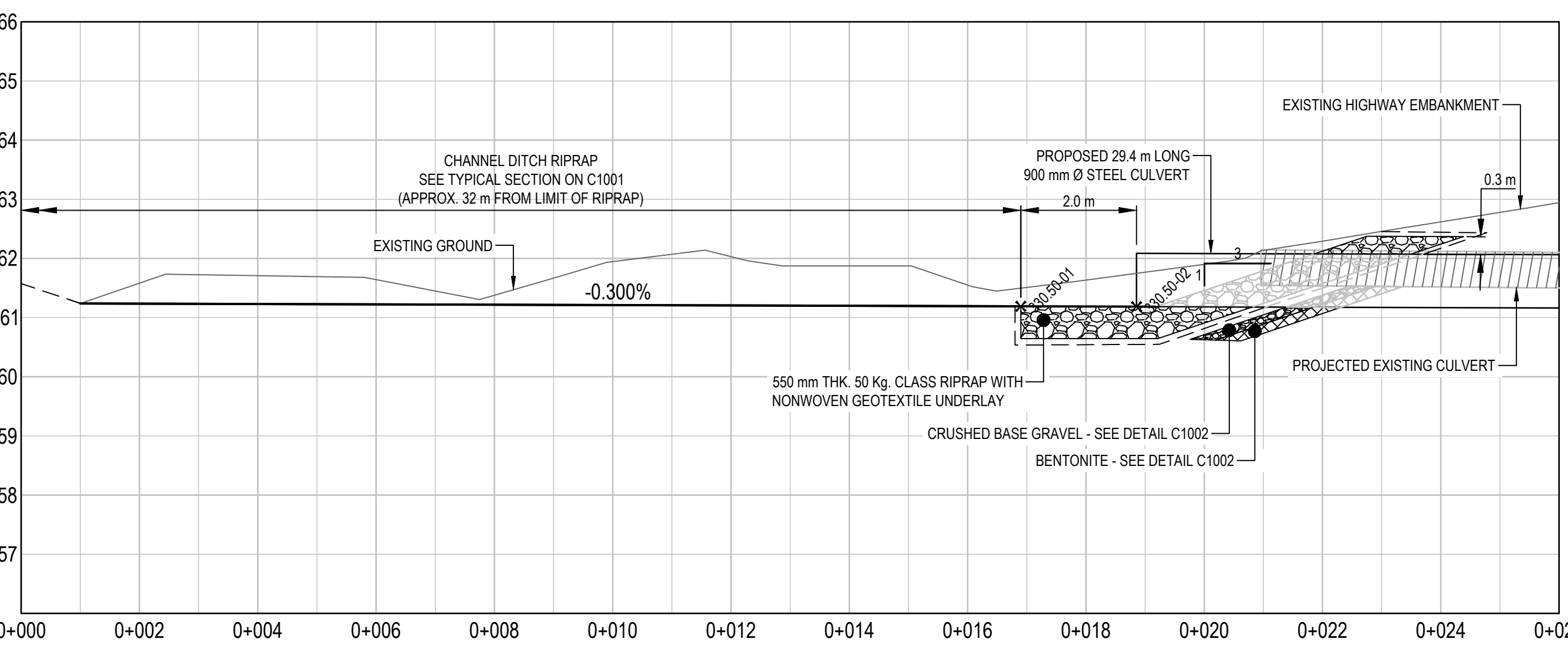
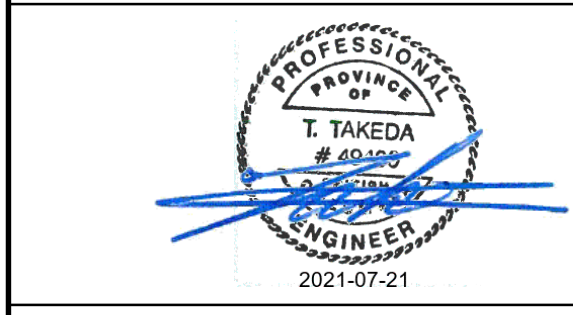


# ISSUED FOR TENDER

- GENERAL NOTES:
- DIMENSIONS, COORDINATES, ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE.
  - THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
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POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
330.50-01	6,408,449.993	507,494.598	761.191	RIPRAP LIMIT
330.50-02	6,408,448.939	507,496.297	761.185	INLET INVERT
330.50-03	6,408,433.444	507,521.282	761.097	OUTLET INVERT
330.50-04	6,408,431.336	507,524.682	761.061	RIPRAP LIMIT



Revision/	Issued for Tender	21/07/21
0	ISSUED FOR TENDER	21/07/21

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**



Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

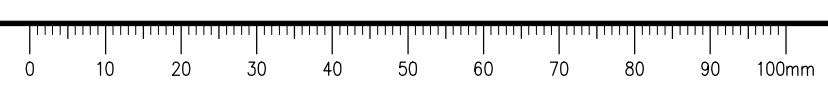
Approved by/Approuvé par  
**T. TAKEDA**  
 Designed by/Concept par  
**A. DEEPWELL**  
 Drawn by/Dessiné par  
**A. DEEPWELL / J. SCHITTHELM**  
 P/SPC Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

Drawing title/Titre du dessin  
**KM 330.50 CULVERT PLAN / PROFILE**

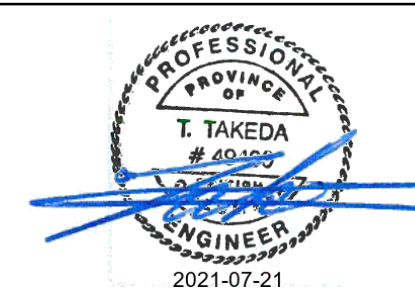
Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
<b>R.115075.003</b>	<b>C2121</b>	<b>0</b>

C:\Vancouver\Transportation\TRN\VHWY\Projects\TRN\HWY03\64 Alaska Highway Paving Km 325 - 355 & Km 520 - 555\CAD\Sheets\KM 325 Culverts\C2101-C2132\KM 325.08 329.84 330.50 331.26 CULVERTS.dwg [C2121] July 21, 2021 - 1:50:11 pm (BY: TAKEDA, TAKUMA)



# ISSUED FOR TENDER

- GENERAL NOTES:
1. DIMENSIONS, COORDINATES, ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE.
  2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
  3. ALL DISTURBED AREAS WITHOUT RIPRAP TO BE HYDROSEEDED.
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Scale: 1:75 (metres)

Revision/Modification	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/07/21

**PUBLIC SERVICES AND PROCUREMENT CANADA**



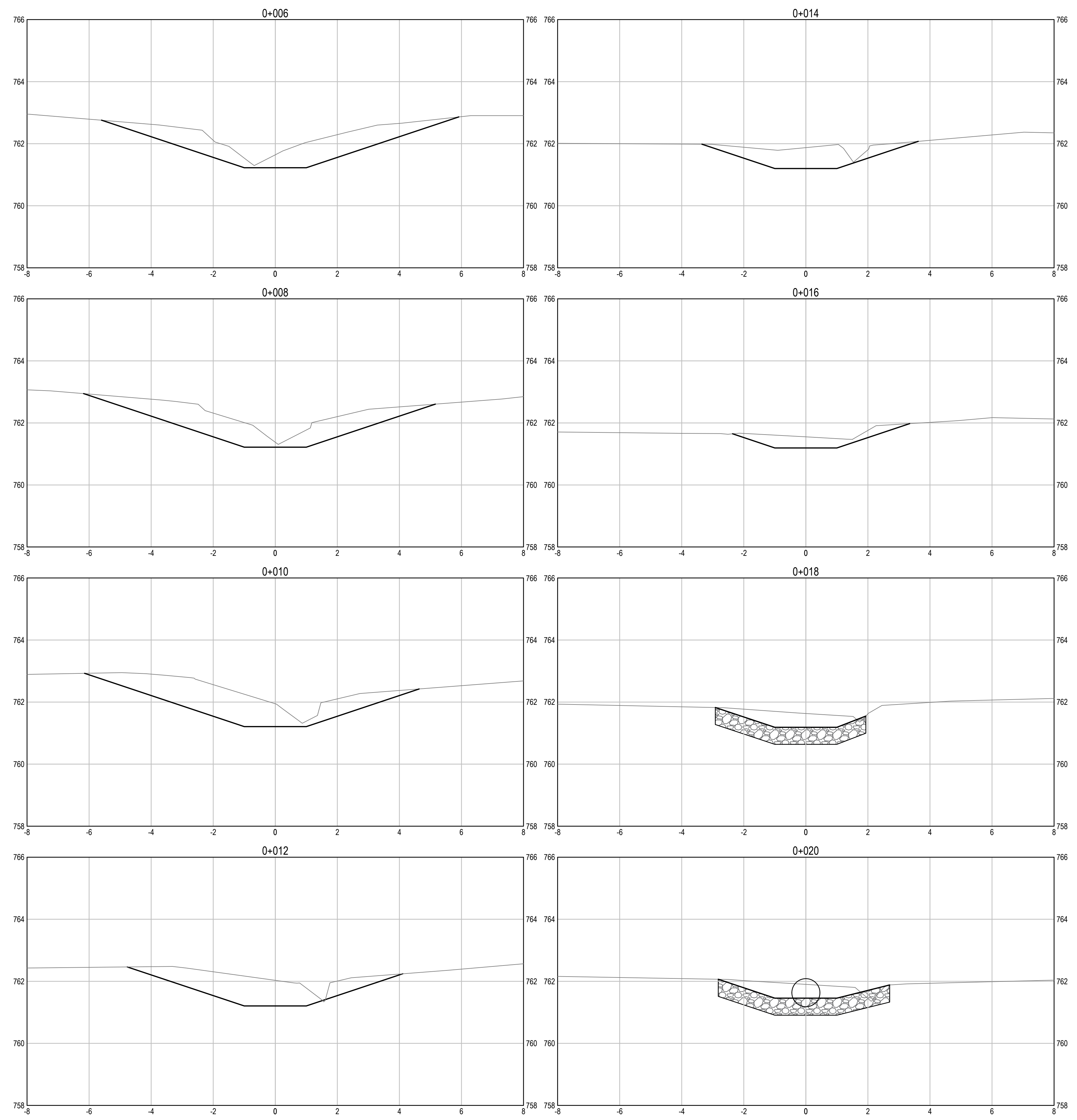
Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

Approved by/Approve par: **T. TAKEDA**  
 Designed by/Concept par: **A. DEEPWELL**  
 Drawn by/Dessine par: **A. DEEPWELL / J. SCHITTHELM**  
 PSPC Project Manager/Administrateur de Projets TPSGC: **R. HAGHIGHI**  
 PSPC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC

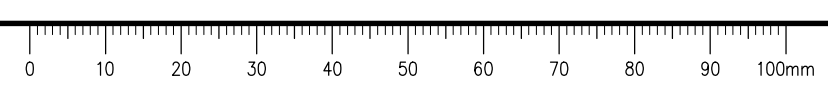
Client/client: **PUBLIC SERVICES AND PROCUREMENT CANADA**

Drawing title/Titre du dessin  
**KM 330.50 CULVERT PROPOSED CHANNEL CROSS SECTIONS (1 of 2)**

Project No./No. du projet <b>R.115075.003</b>	Sheet/Fauille <b>C2122</b>	Revision no./La Révision no. <b>0</b>
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**INLET CROSS SECTIONS**  
SCALE: 1:75



Q:\Vancouver\Transportation\TRN\WHY\Projects\TRN\WHY\Projects\KM 325 Culverts\101-C2132 KM 325 CAD\Sheets KM 325 - 355 & Km 520 - 555\CAD\Sheets KM 325 Culverts.dwg [C2122] July 21, 2021 - 1:50:36 pm (BY: TAKEDA, TAKUMA)





# ISSUED FOR TENDER

- GENERAL NOTES:
1. DIMENSIONS, COORDINATES, ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE.
  2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
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Revision/	Description/	Date/
Revised/	Description/	Date/
0	ISSUED FOR TENDER	21/07/21

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**



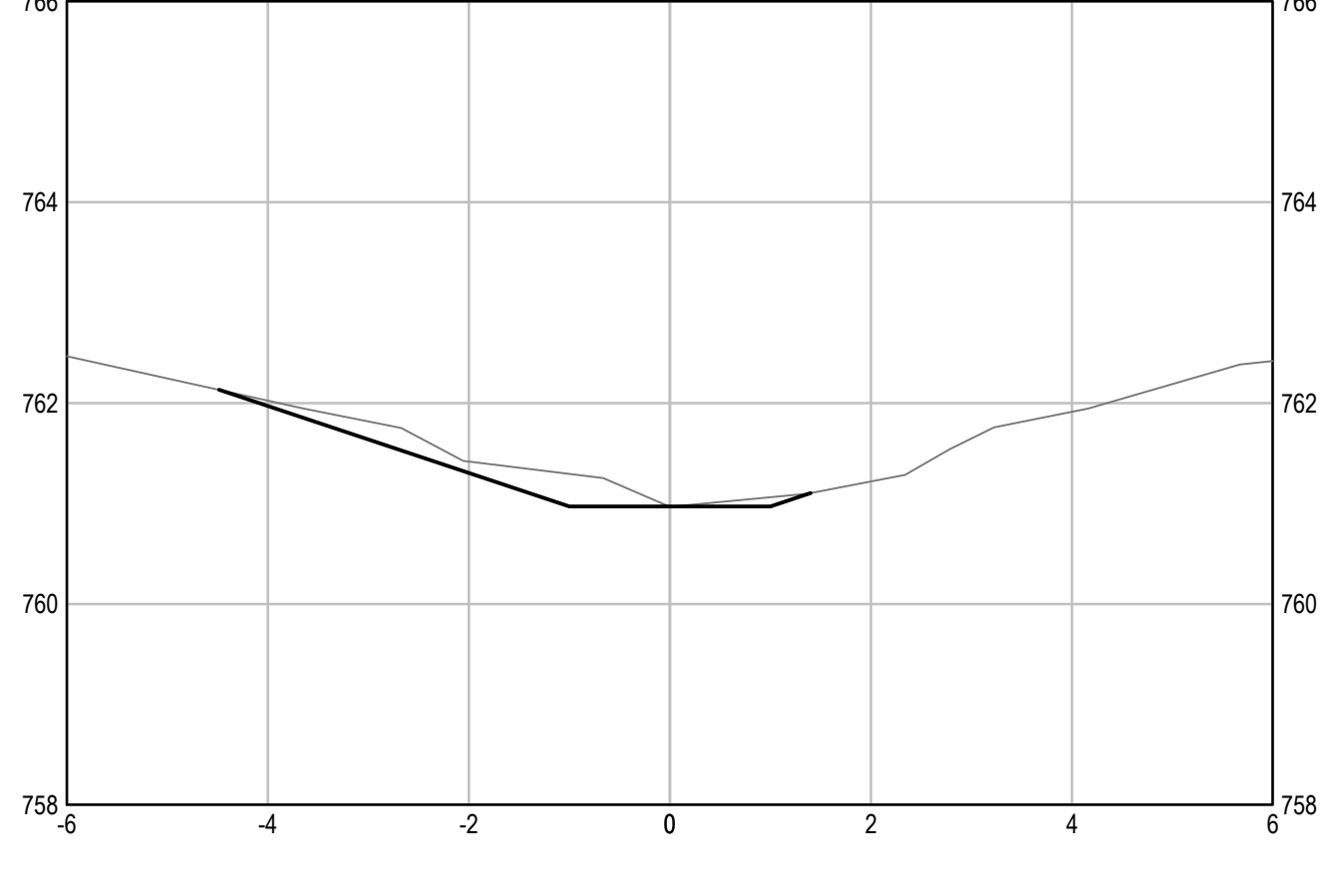
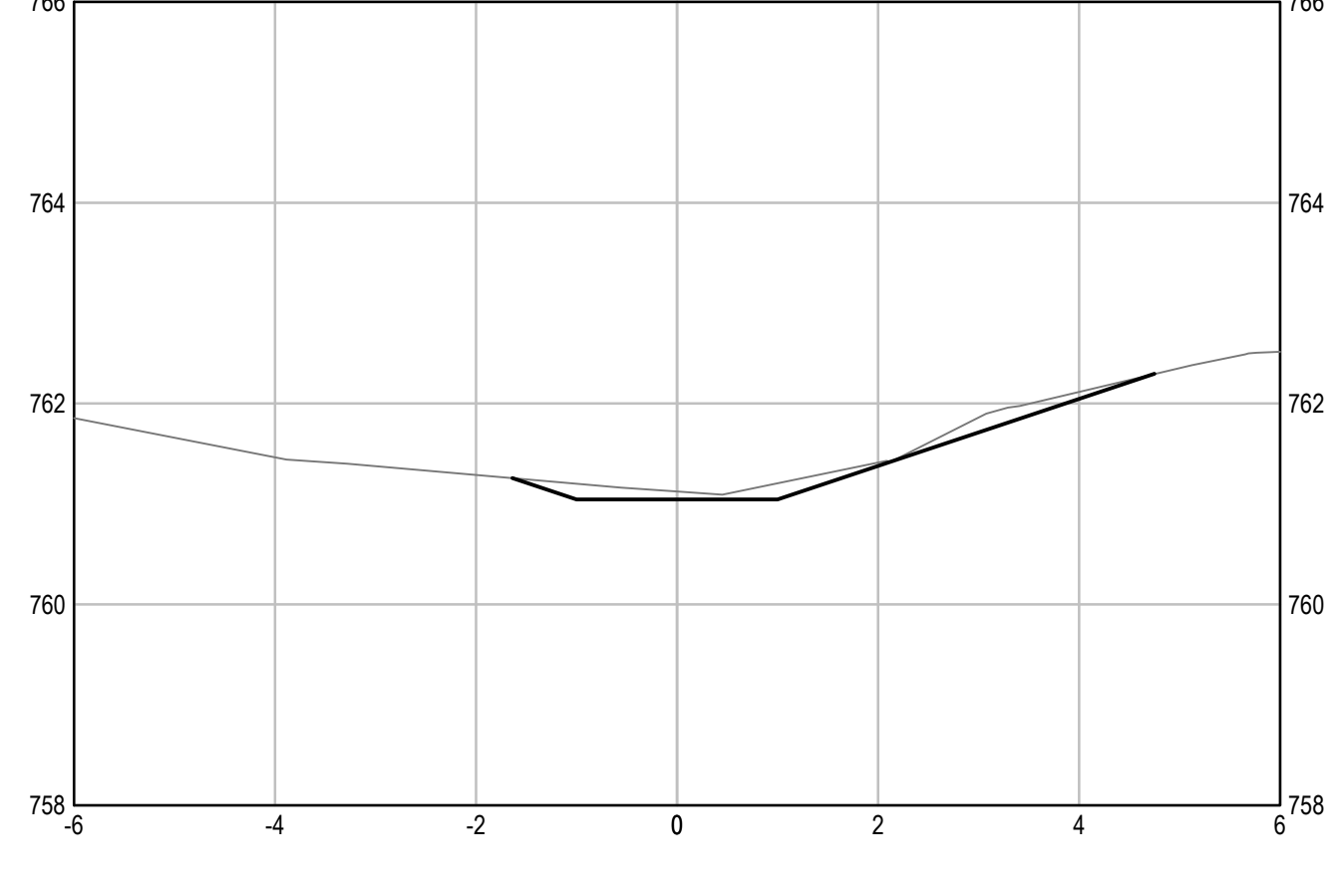
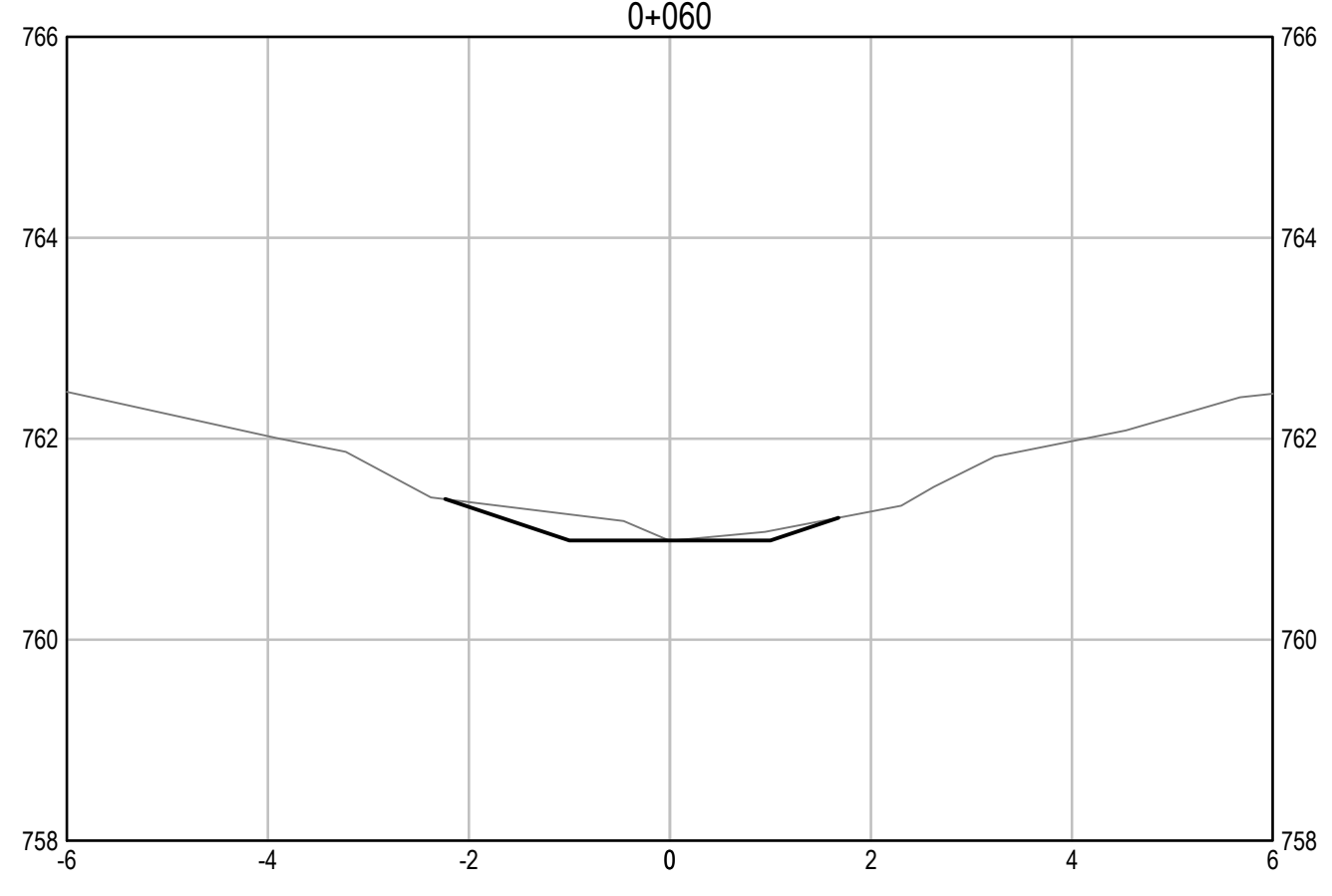
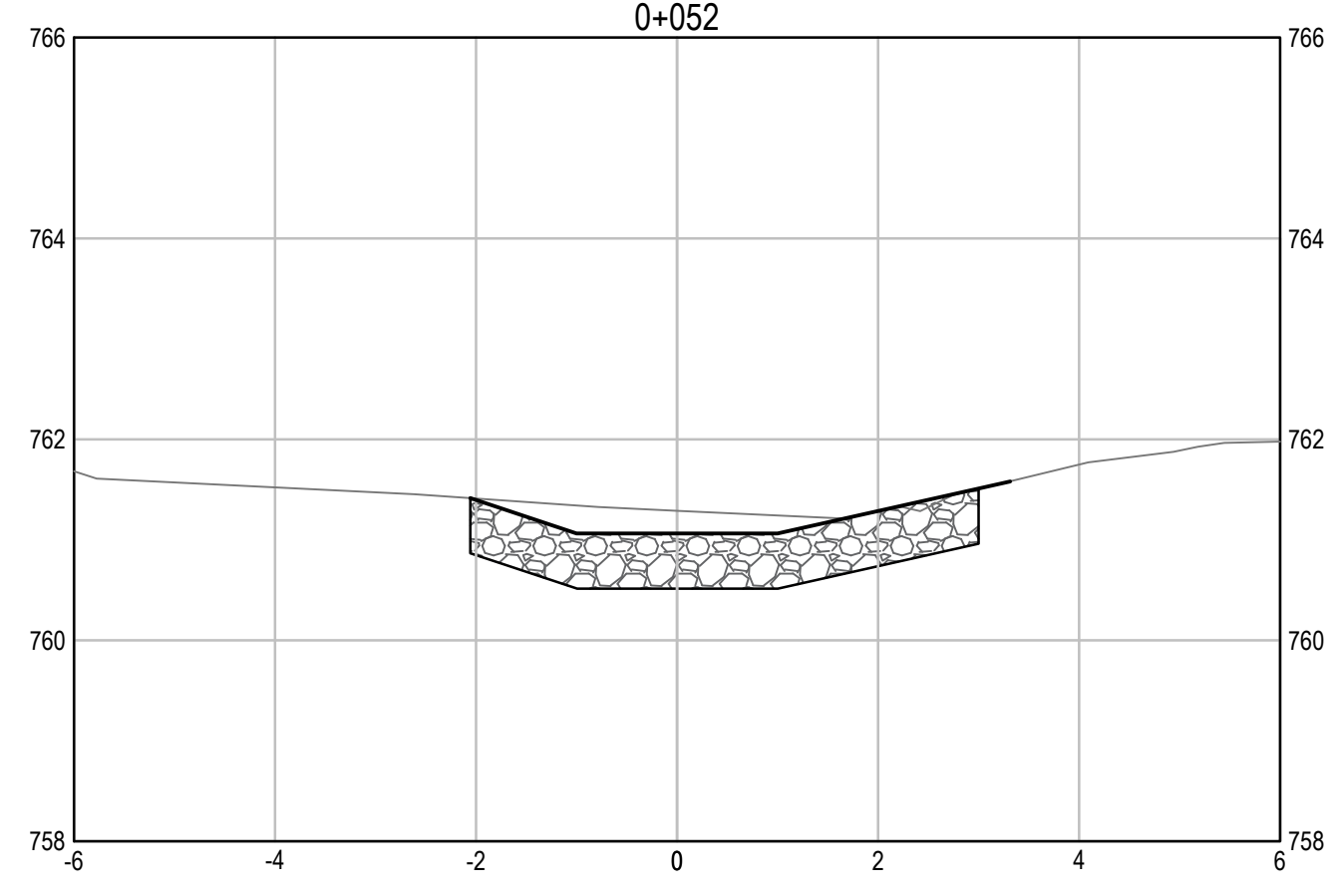
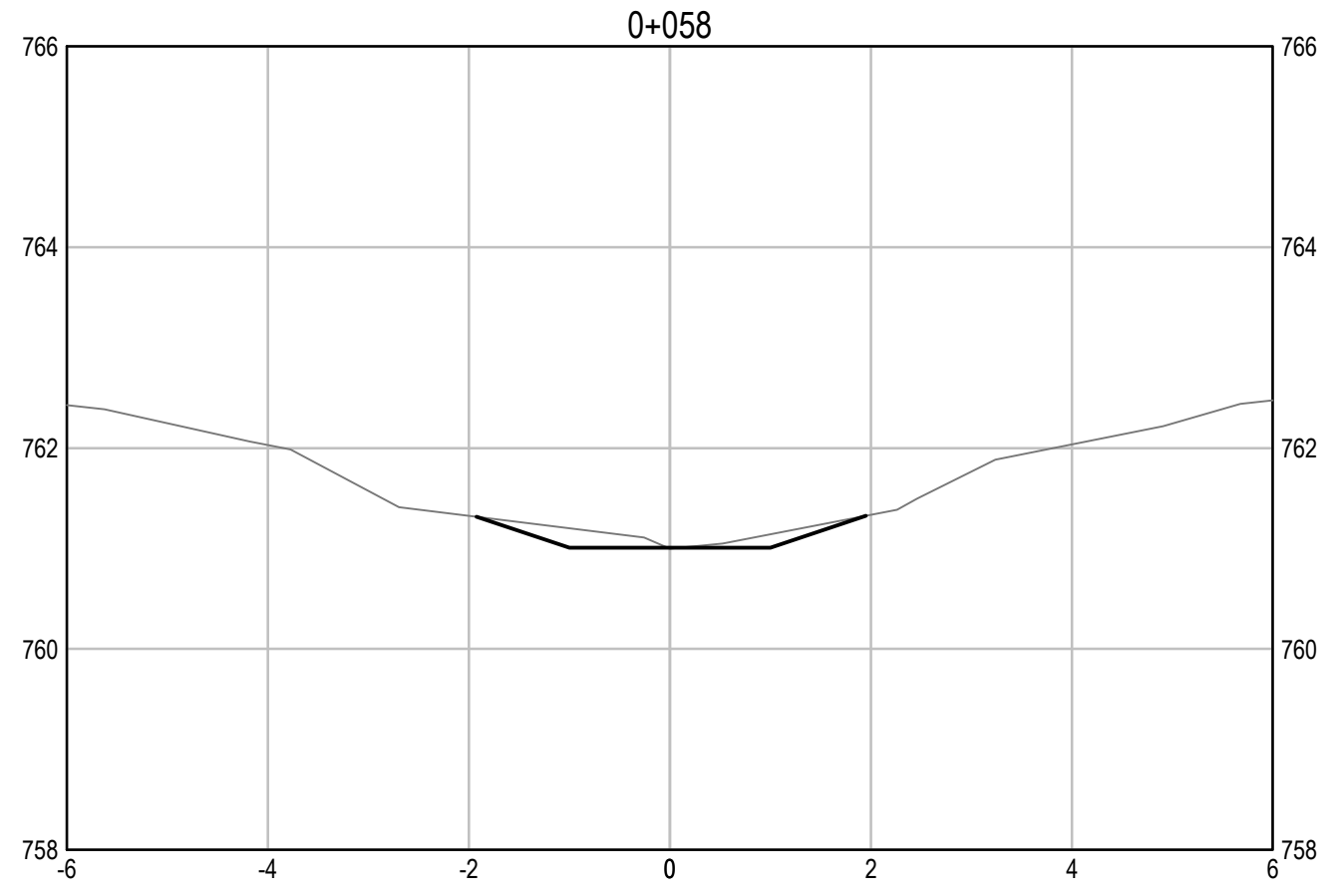
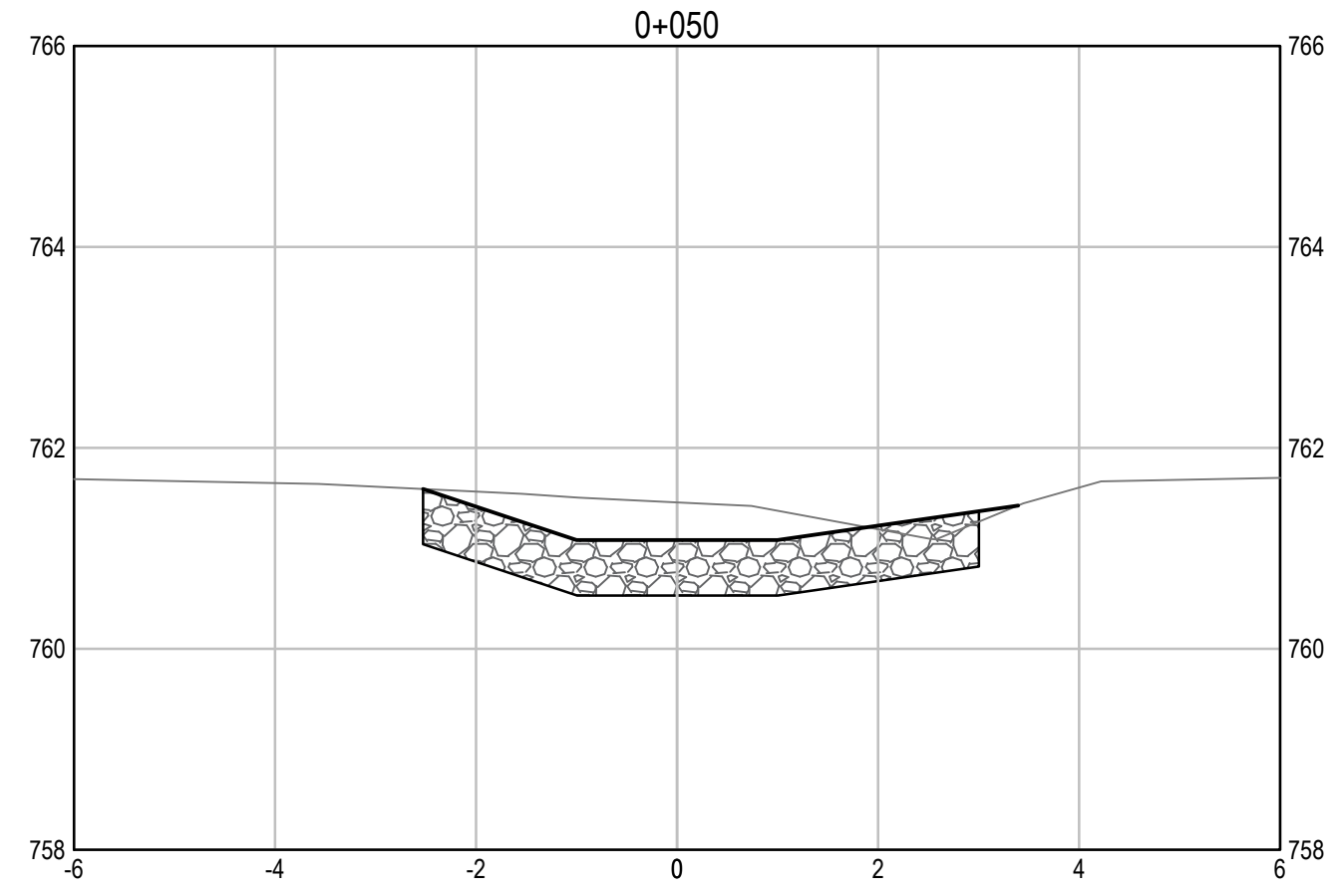
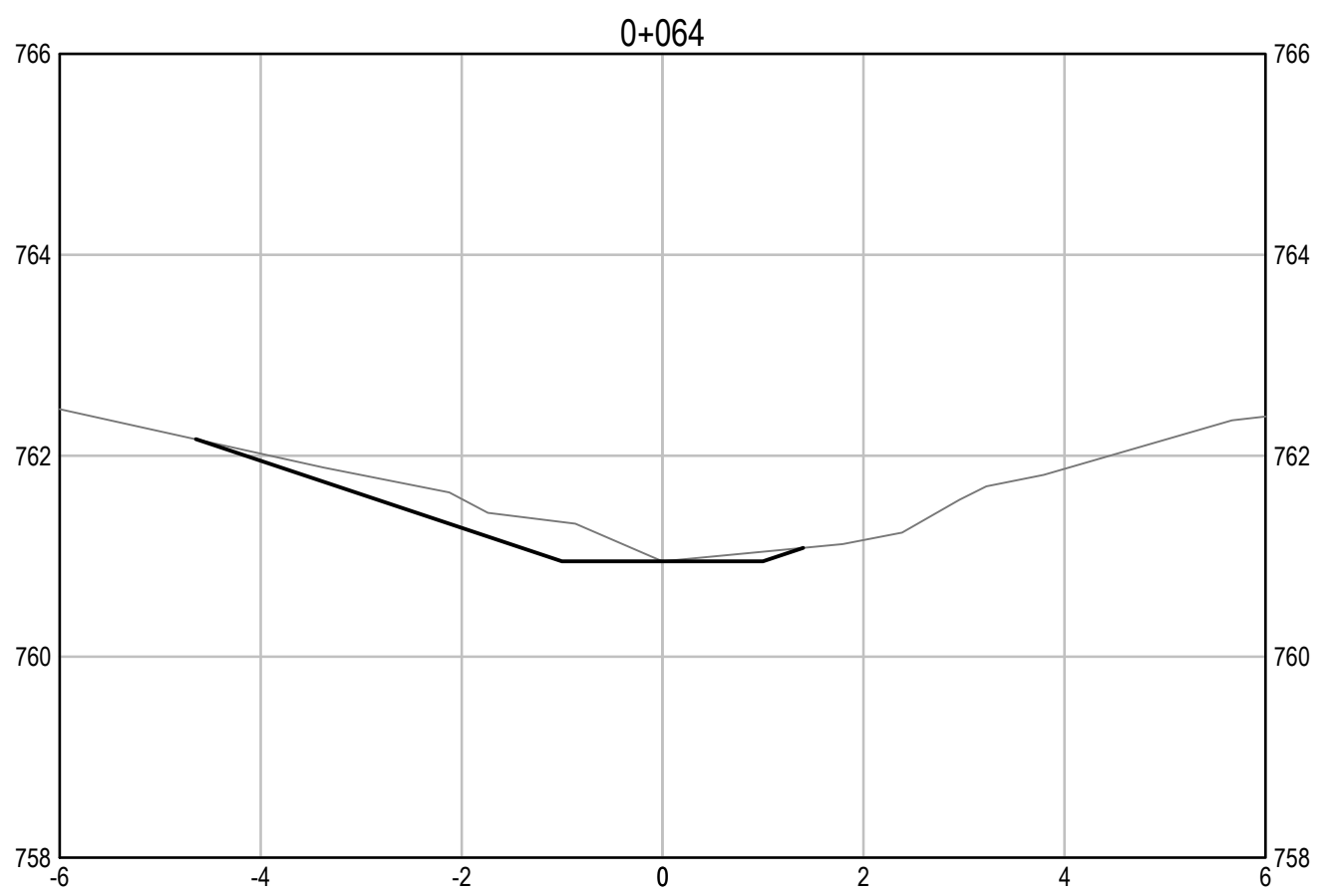
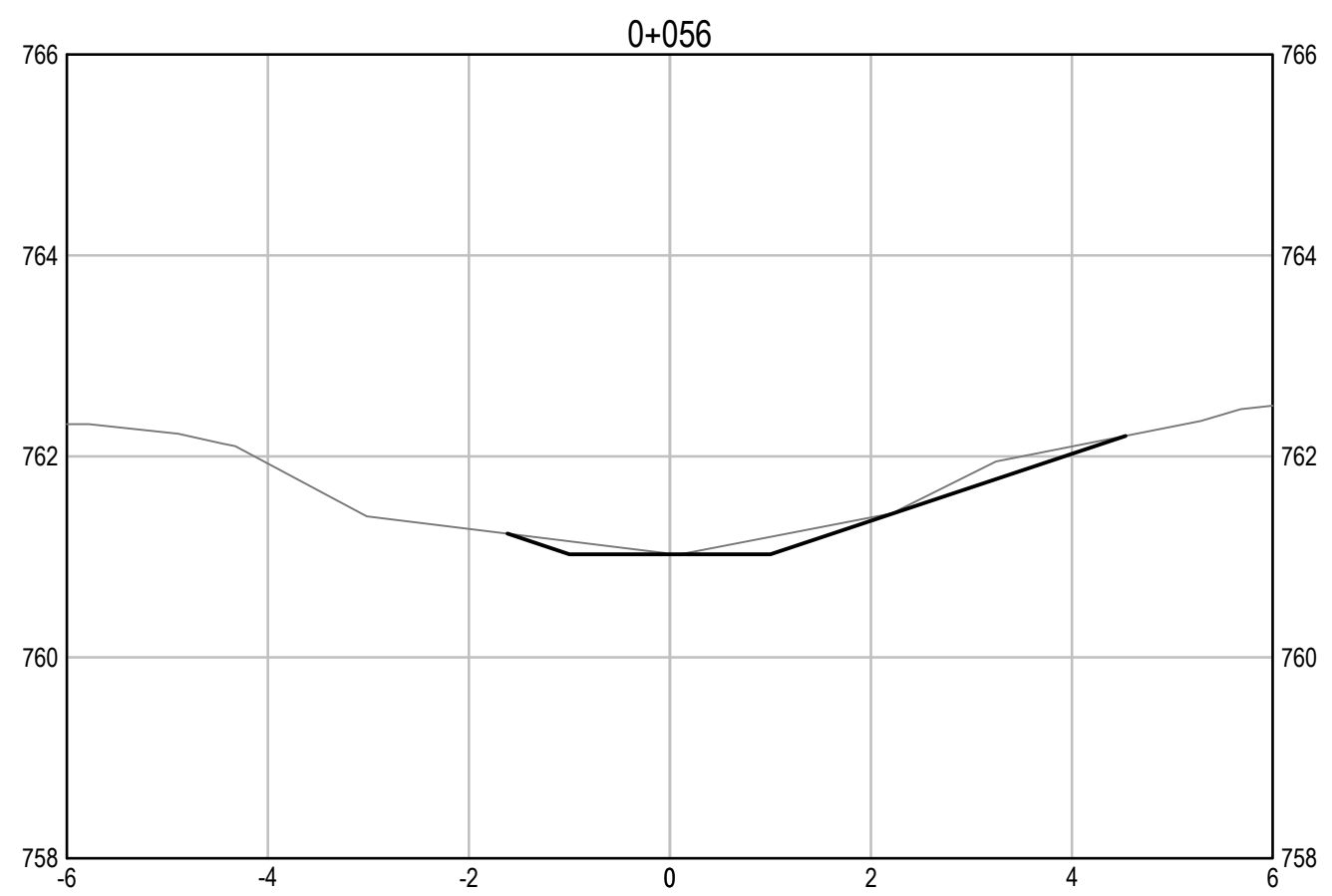
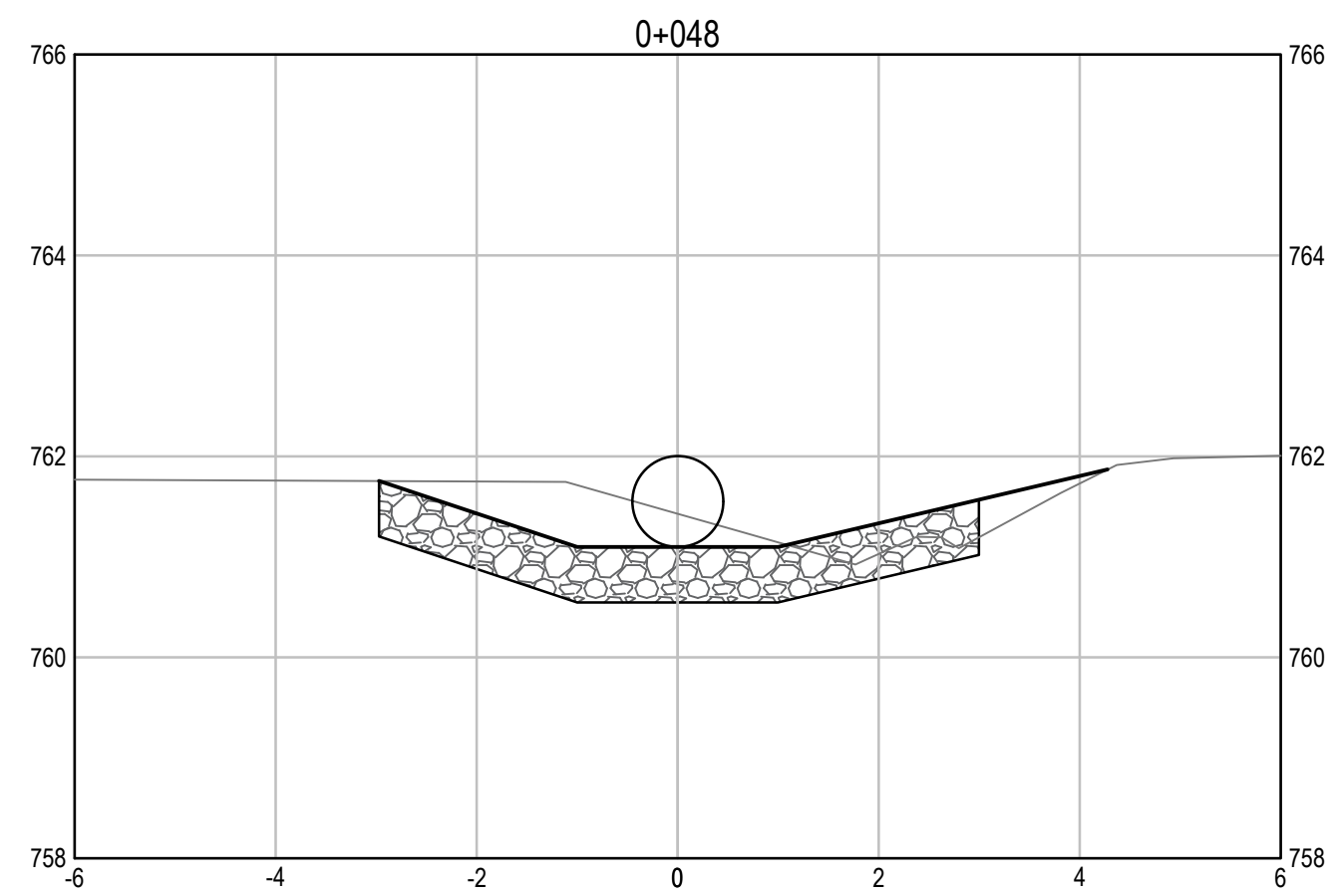
Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

Approved by/Approve par  
**T. TAKEDA**  
Designed by/Concept par  
**A. DEEPWELL**  
Drawn by/Dessine par  
**A. DEEPWELL / J. SCHITTHELM**  
PSPC Project Manager/Administrateur de Projets TPSOC  
**R. HAGHIGHI**  
PSPC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSOC

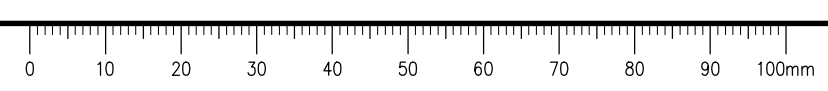
Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

Drawing title/Titre du dessin  
**KM 330.50 CULVERT PROPOSED CHANNEL CROSS SECTIONS (2 of 2)**

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
<b>R.115075.003</b>	<b>C2123</b>	<b>0</b>



**OUTLET CROSS SECTIONS**  
SCALE: 1:75



Q:\Vancouver\Transportation\TRN\WHY\Projects\TRN\WHY\Projects\KM 325 Culverts\C2101-C2132 KM 325.08 329.84 330.50 331.26 CULVERTS.dwg [C2123] July 21, 2021 - 1:15:06 pm (BY: TAKEDA, TAKUMA)



# ISSUED FOR TENDER

- GENERAL NOTES:
- DIMENSIONS, COORDINATES, ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE.
  - THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
  - ALL DISTURBED AREAS WITHOUT RIPRAP TO BE HYDROSEEDDED.
  - FOR ADDITIONAL INFORMATION REFER TO CULVERT PLAN AND PROFILE DRAWINGS.



0	ISSUED FOR TENDER	21/07/21
Revision/	Description/Description	Date/Date

Client/client

**PUBLIC SERVICES AND PROCUREMENT CANADA**



Project title/Titre du projet

**KM 325 - 355  
DRAINAGE IMPROVEMENTS  
ALASKA HIGHWAY, BC**

Approved by/Approve par  
**T. TAKEDA**

Designed by/Concept par  
**A. DEEPWELL**

Drawn by/Dessiné par  
**A. DEEPWELL / J. SCHITTHELM**

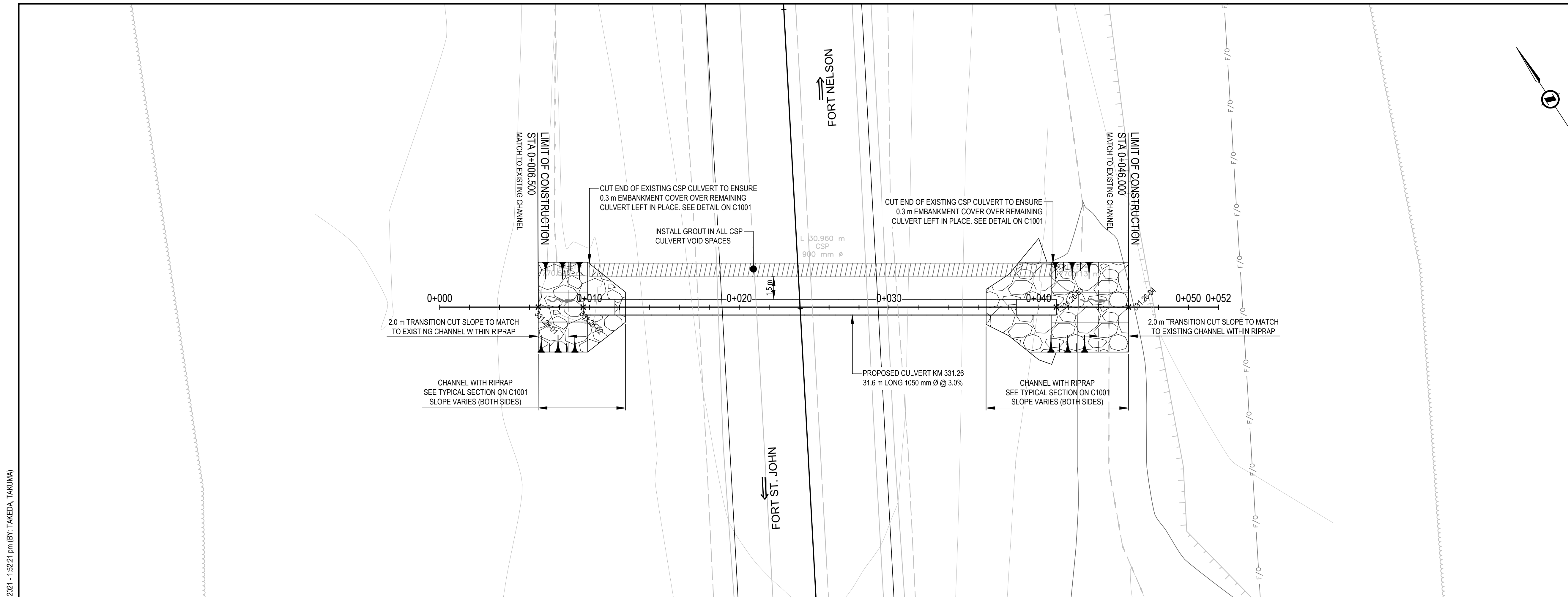
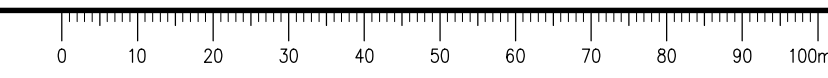
PSPC Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

Drawing title/Titre du dessin  
**KM 331.26 CULVERT  
PLAN / PROFILE**

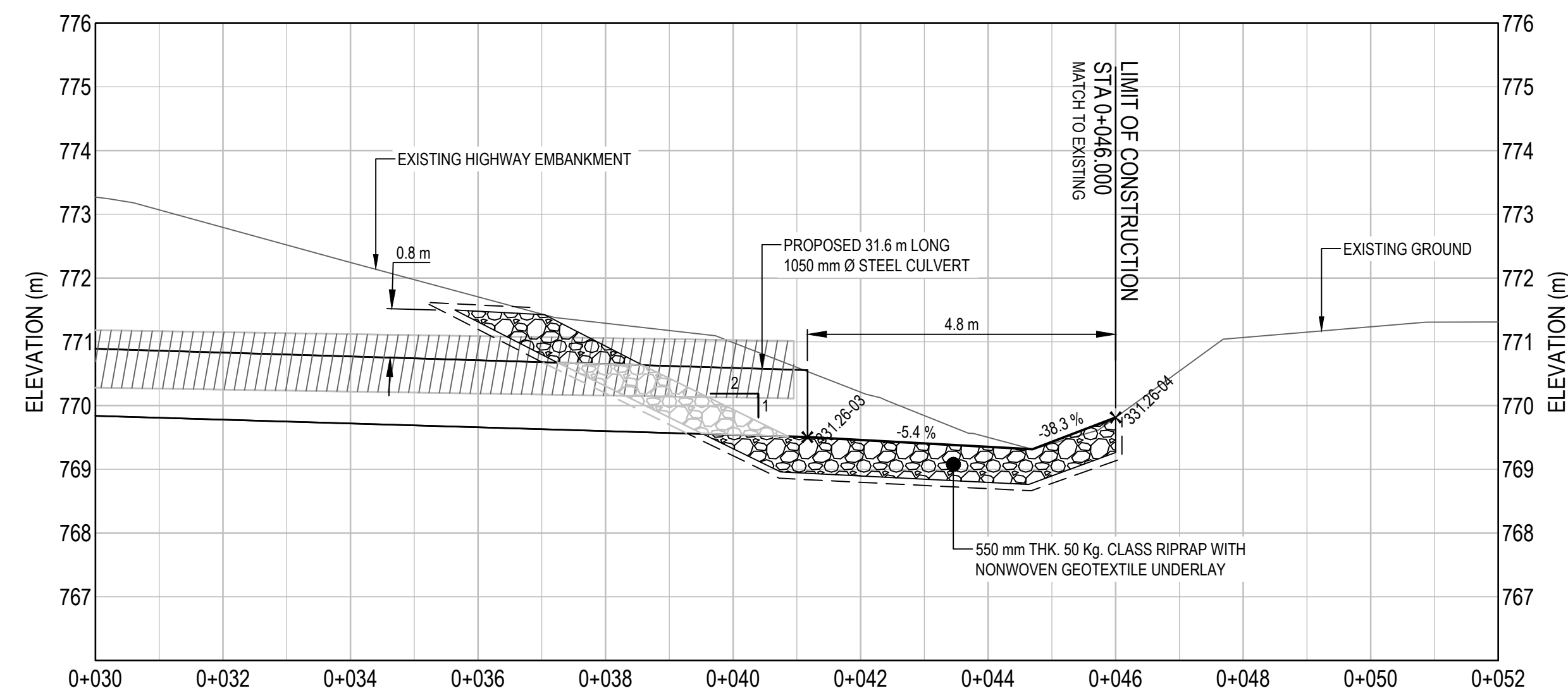
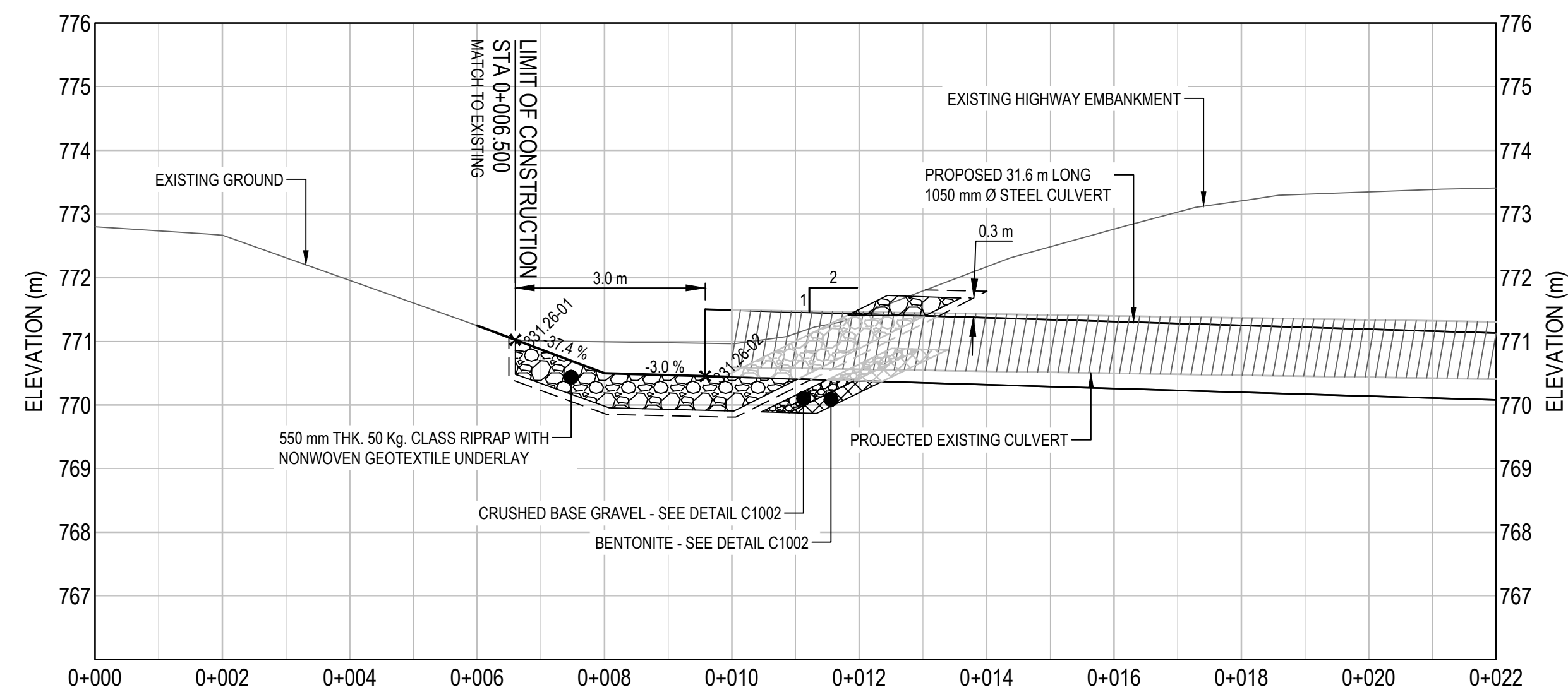
Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
<b>R.115075.003</b>	<b>C2131</b>	<b>0</b>

C:\Vancouver\Transportation\TRN\VHWY03\64 Alaska Highway Paving Km 325 - 355 & Km 520 - 555\CAD\Sheets\KM 325 Culverts\C2101-C2132\KM 325.08 329.84 330.50 331.26 CULVERTS.dwg [C2131] July 21, 2021 - 1:52:21 pm (BY: TAKEDA, TAKUMA)



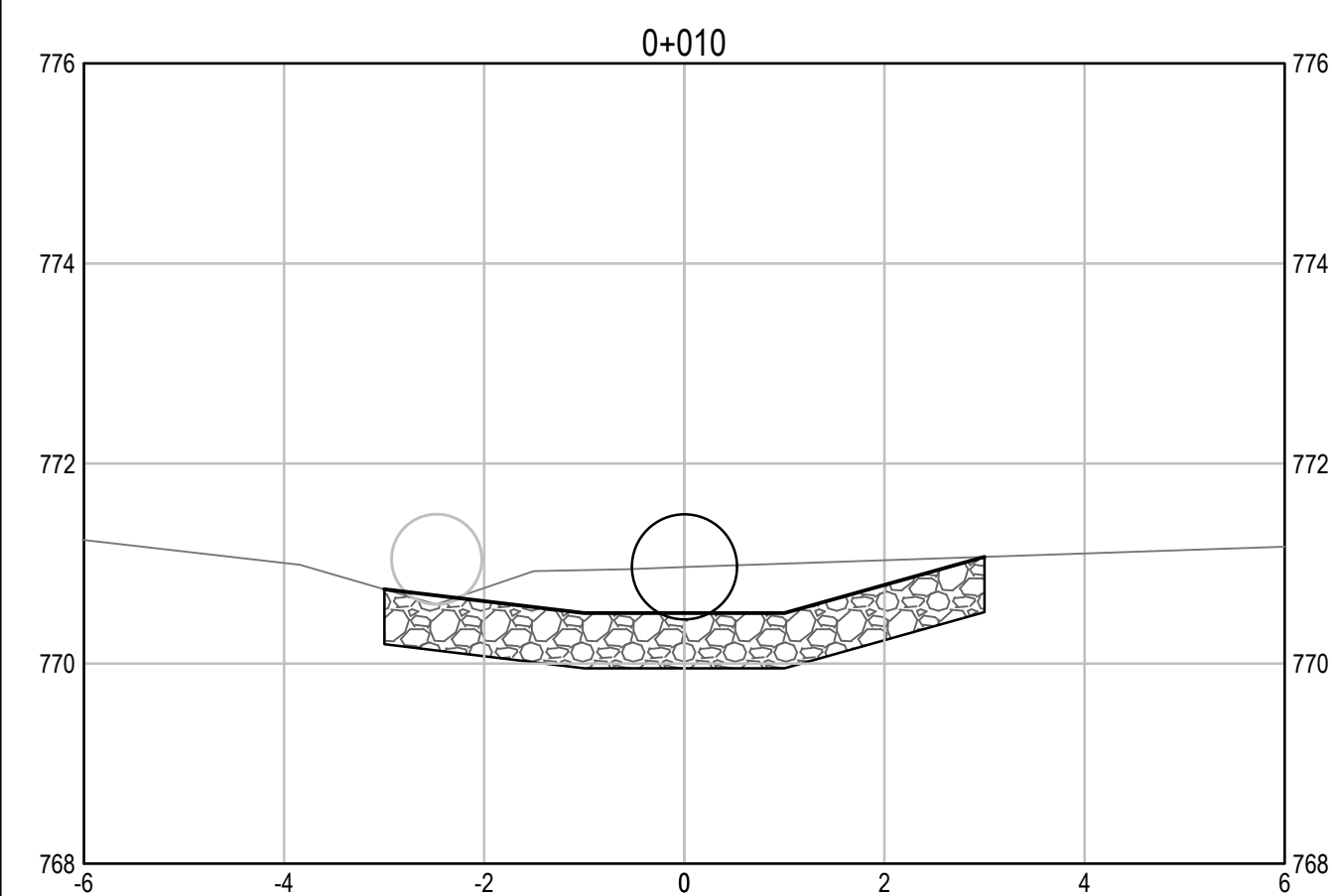
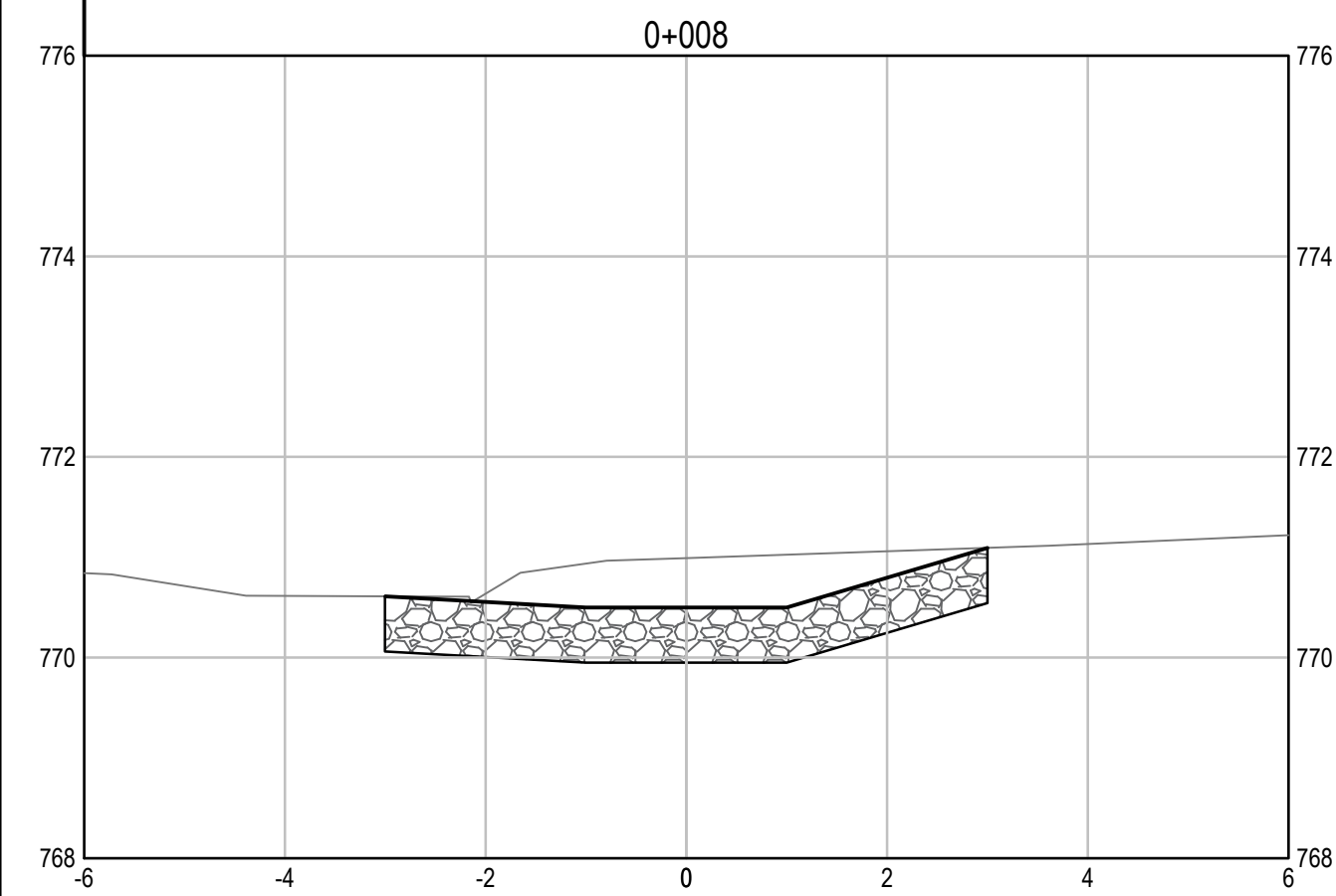
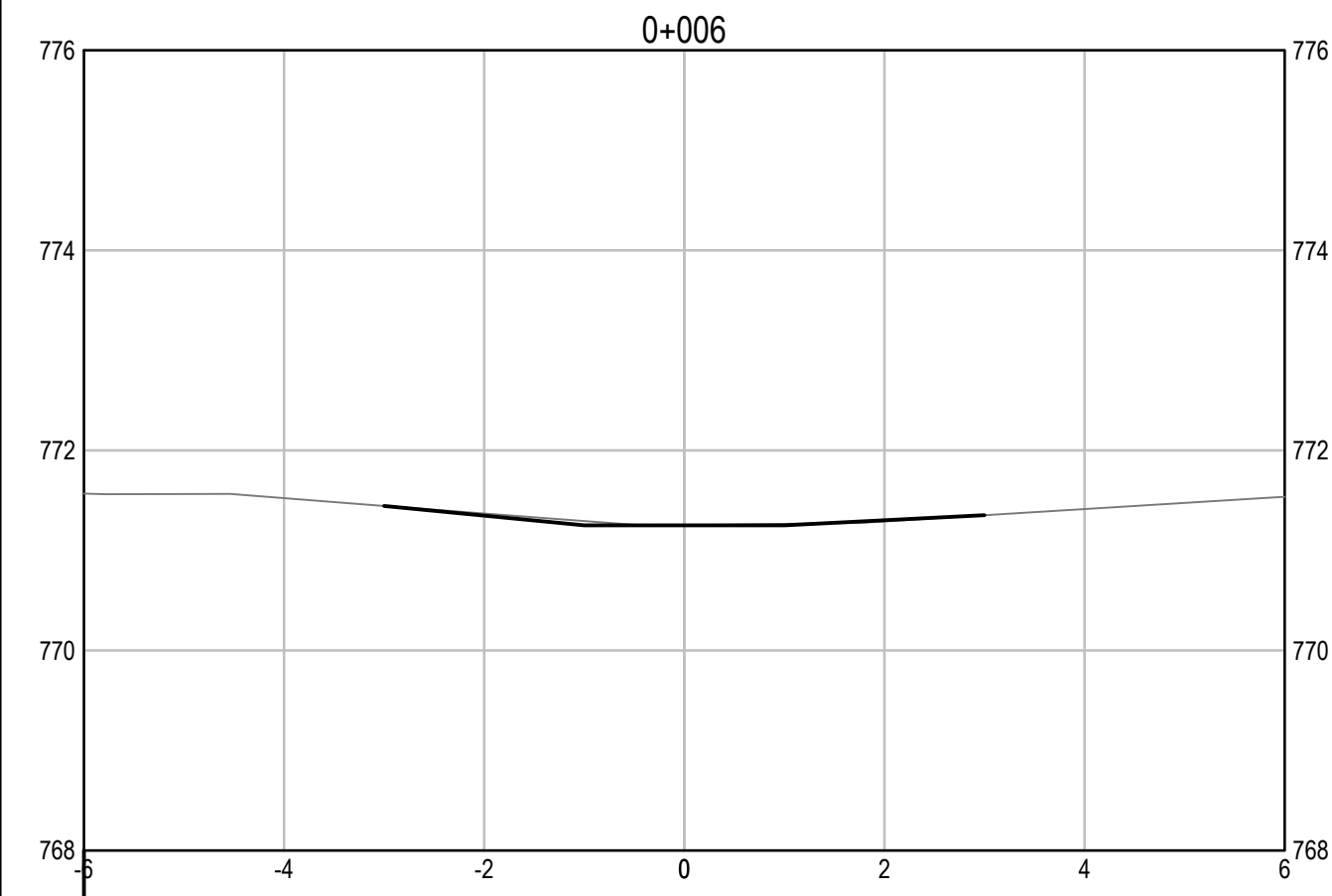
LAYOUT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
331.26-01	6,409,105.758	507,872.425	771.031	RIPRAP LIMIT
331.26-02	6,409,104.119	507,874.937	770.453	INLET INVERT
331.26-03	6,409,086.857	507,901.388	769.505	OUTLET INVERT
331.26-04	6,409,084.215	507,905.435	769.815	RIPRAP LIMIT

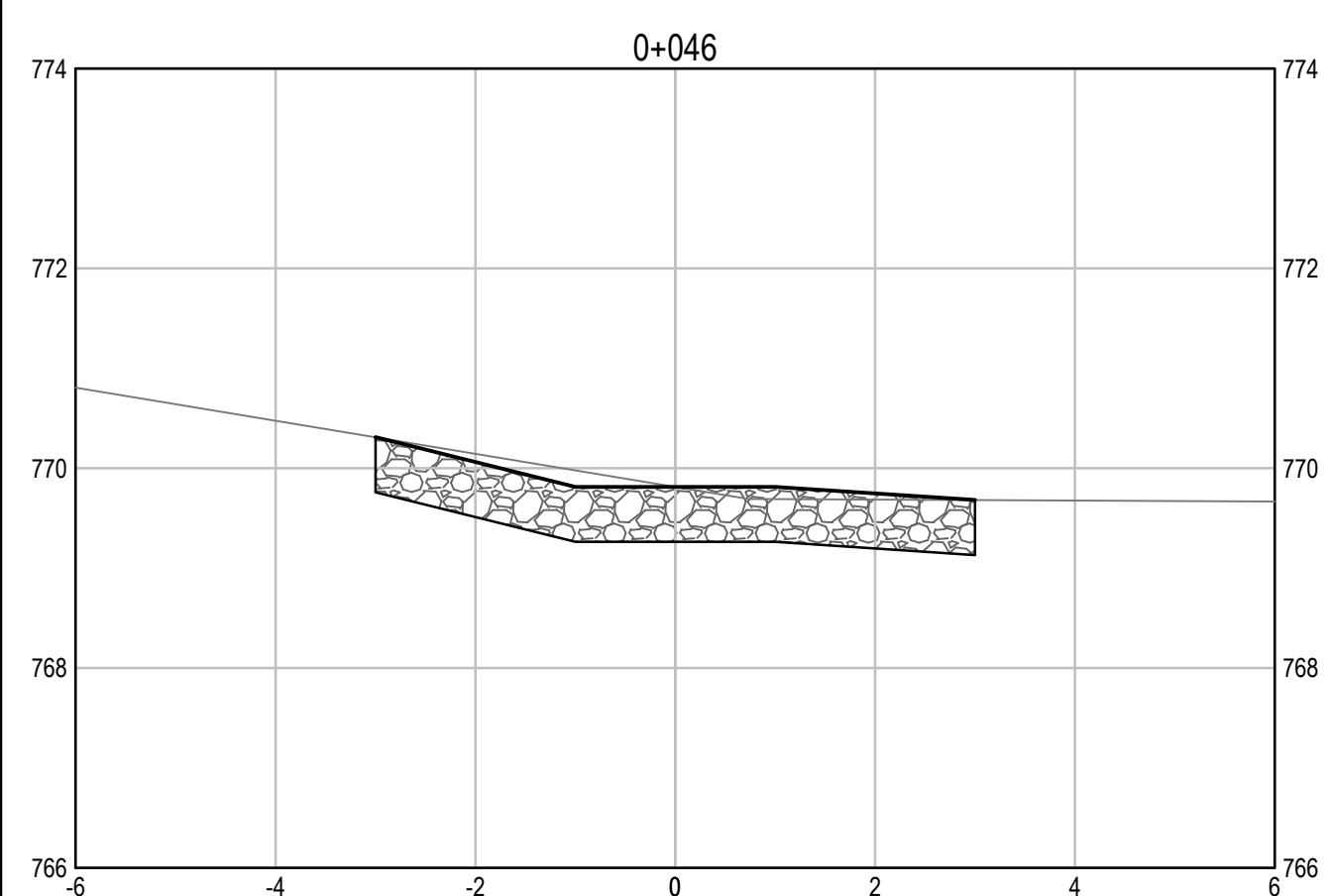
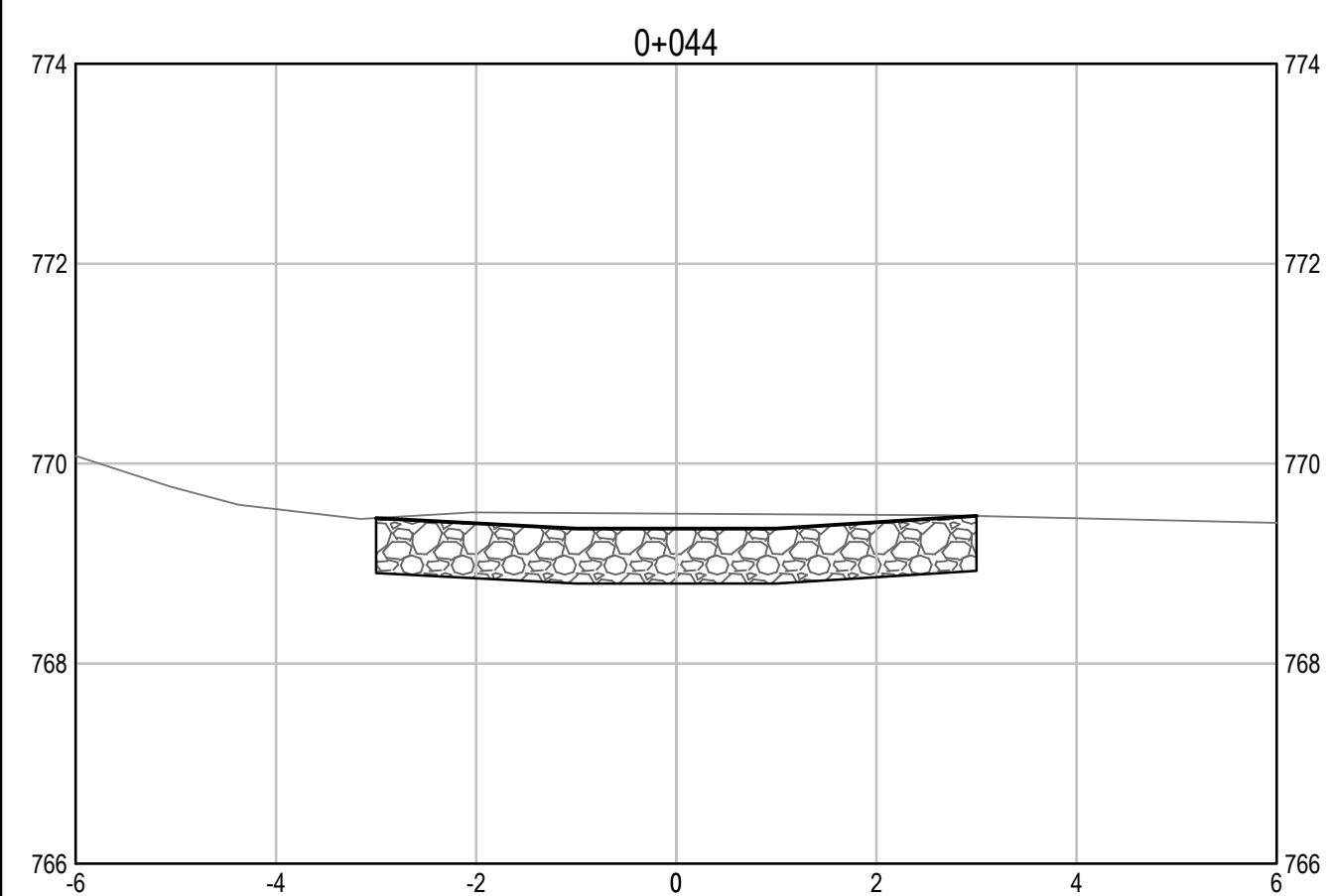
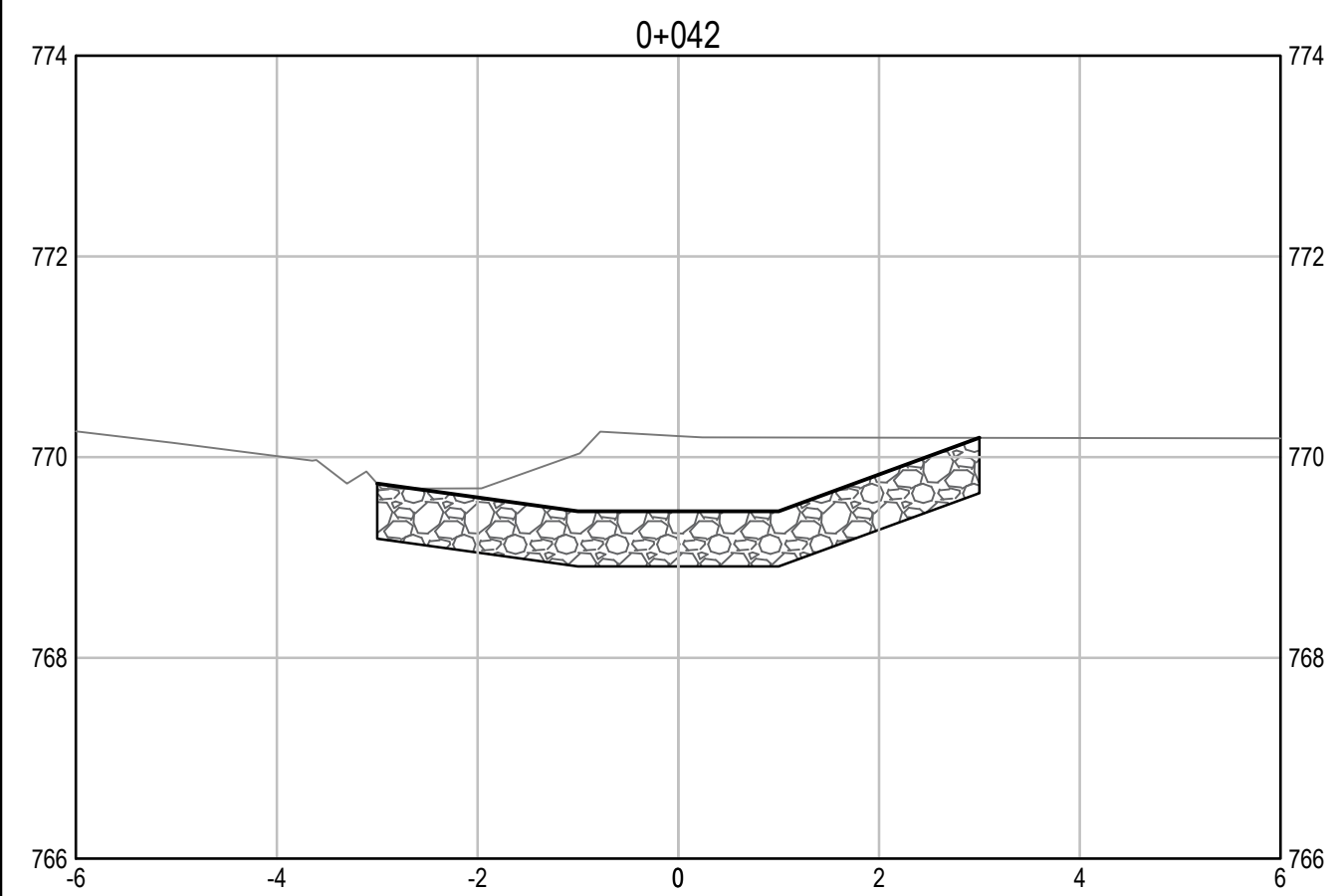
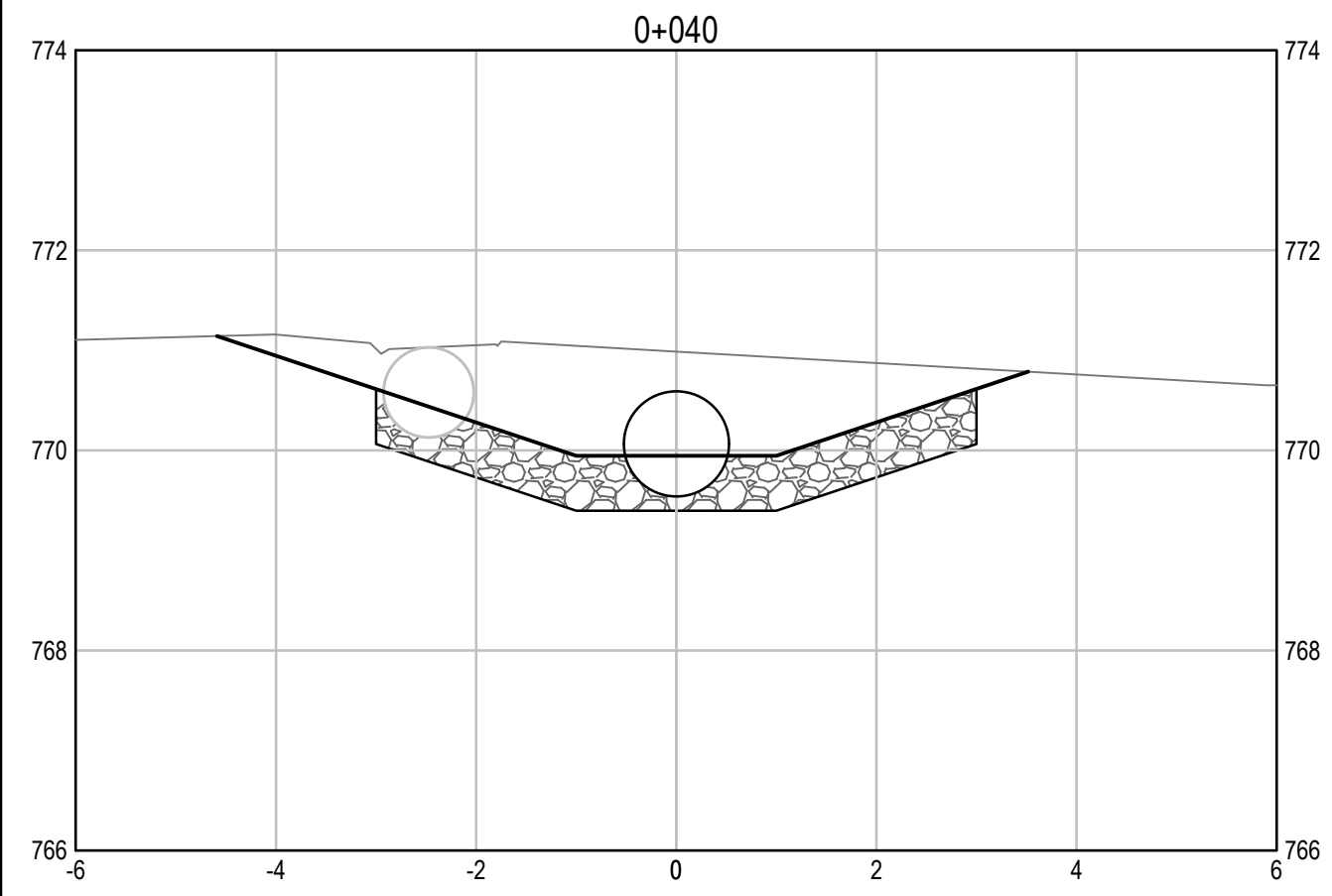




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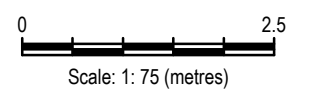
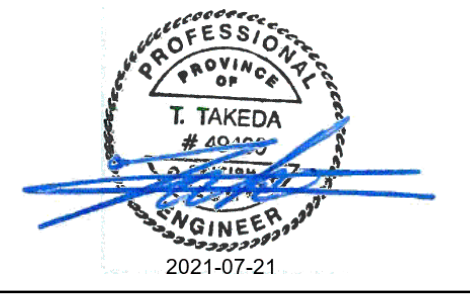
**INLET CROSS SECTIONS**  
SCALE: 1:75



**OUTLET CROSS SECTIONS**  
SCALE: 1:75

**ISSUED FOR TENDER**

- GENERAL NOTES:
1. DIMENSIONS, COORDINATES, ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE.
  2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
  3. ALL DISTURBED AREAS WITHOUT RIPRAP TO BE HYDROSEEDDED.
  4. FOR ADDITIONAL INFORMATION REFER TO CULVERT PLAN AND PROFILE DRAWINGS.



Revision/Édition	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/07/21

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**



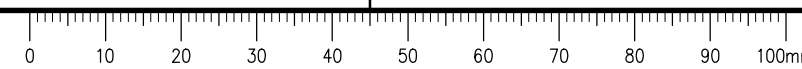
Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

Approved by/Approuvé par  
**T. TAKEDA**  
 Designed by/Concept par  
**A. DEEPWELL**  
 Drawn by/Dessiné par  
**A. DEEPWELL / J. SCHITTHELM**  
 PSPC Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**  
 PSPC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSGC

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

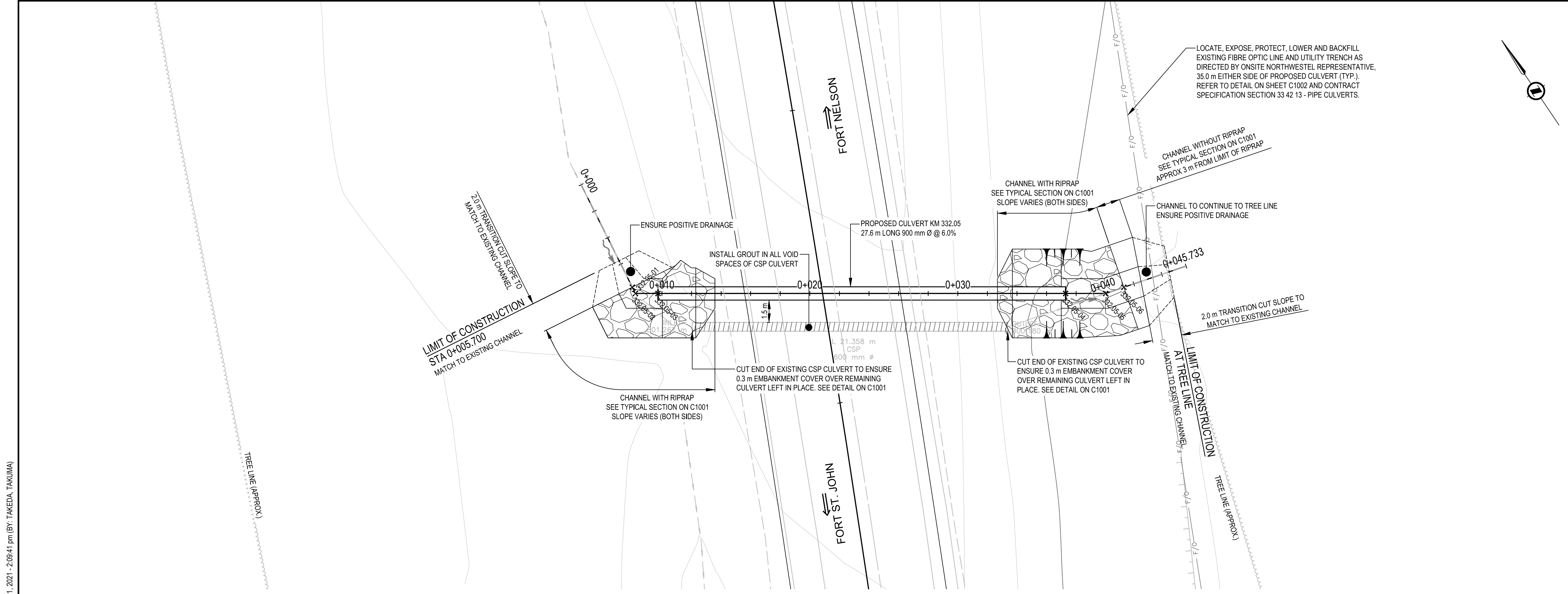
Drawing title/Titre du dessin  
**KM 331.26 CULVERT PROPOSED CHANNEL CROSS SECTIONS**

Project No./No. du projet <b>R.115075.003</b>	Sheet/Fauille <b>C2132</b>	Revision no./La Révision no. <b>0</b>
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# ISSUED FOR TENDER

- GENERAL NOTES:
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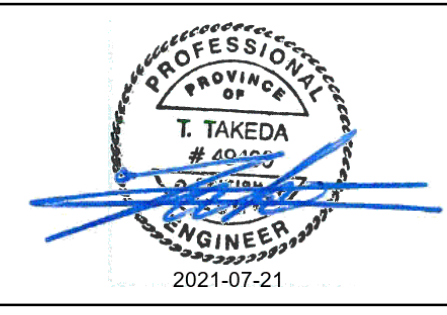


LOCATE, EXPOSE, PROTECT, LOWER AND BACKFILL EXISTING FIBRE OPTIC LINE AND UTILITY TRENCH AS DIRECTED BY ONSITE NORTHWESTEL REPRESENTATIVE, 35.0 m EITHER SIDE OF PROPOSED CULVERT (TYP.). REFER TO DETAIL ON SHEET C1002 AND CONTRACT SPECIFICATION SECTION 33 42 13 - PIPE CULVERTS.

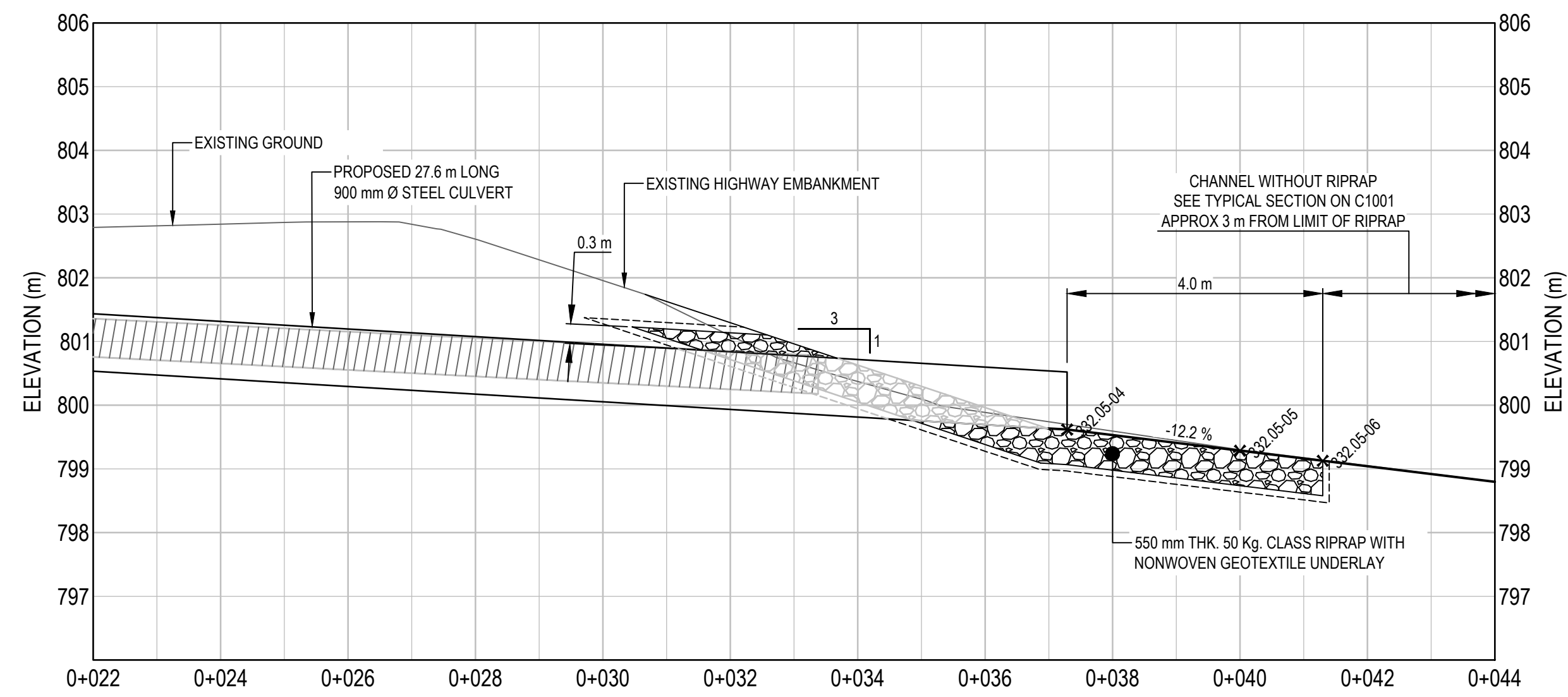
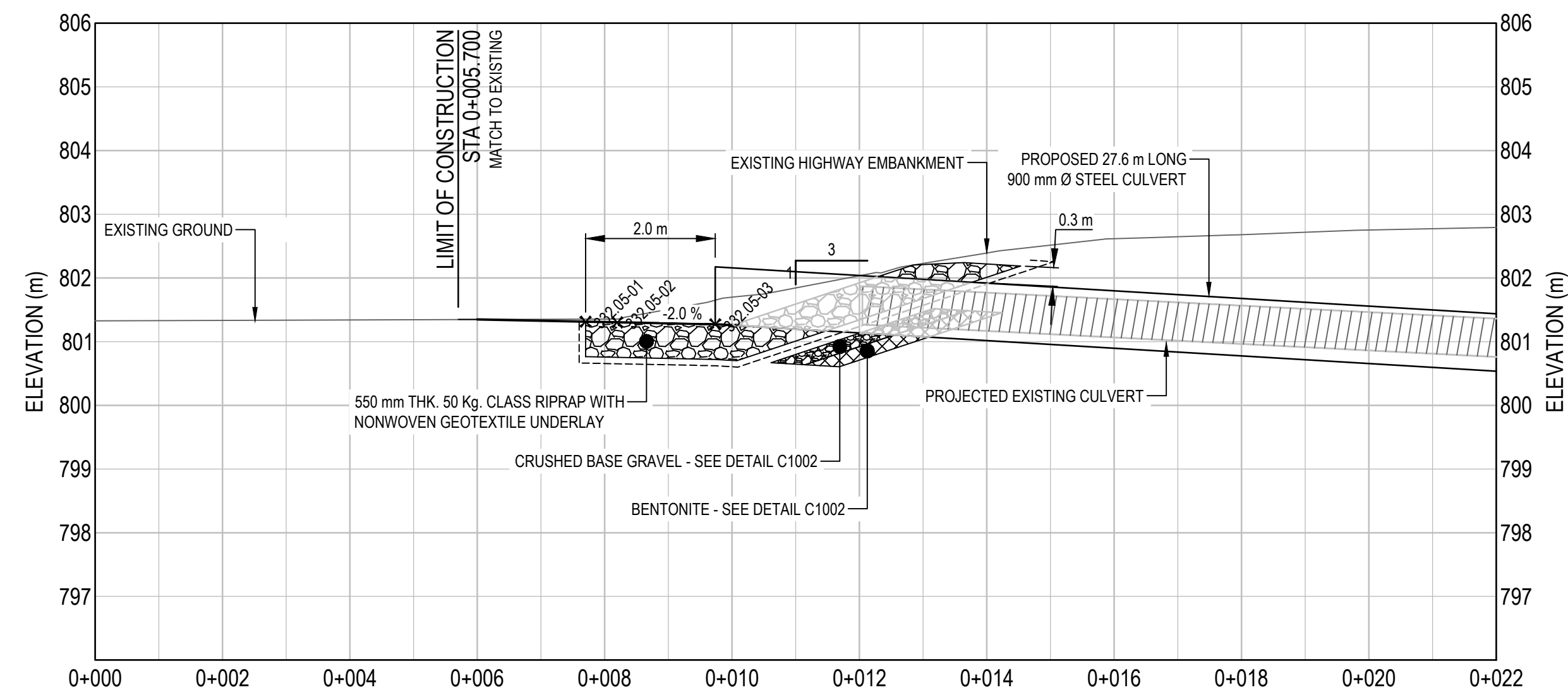
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LAYOUT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
332.05-01	6,409,789.121	508,263.915	801.313	RIPRAP LIMIT
332.05-02	6,409,788.615	508,263.849	801.303	PI
332.05-03	6,409,787.762	508,265.115	801.272	INLET INVERT
332.05-04	6,409,772.373	508,287.957	799.619	OUTLET INVERT
332.05-05	6,409,770.858	508,290.206	799.289	PI
332.05-06	6,409,770.506	508,291.502	799.125	RIPRAP LIMIT



Revision/Modification	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/07/21



Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**



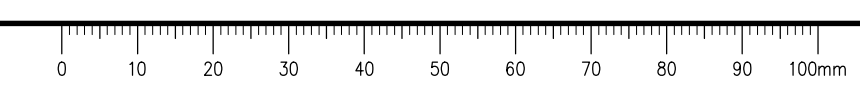
Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

Approved by/Approuvé par  
**T. TAKEDA**  
 Designed by/Concept par  
**A. DEEPWELL**  
 Drawn by/Dessiné par  
**A. DEEPWELL / J. SCHITTHELM**  
 PSPC Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**  
 PSPC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSGC

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

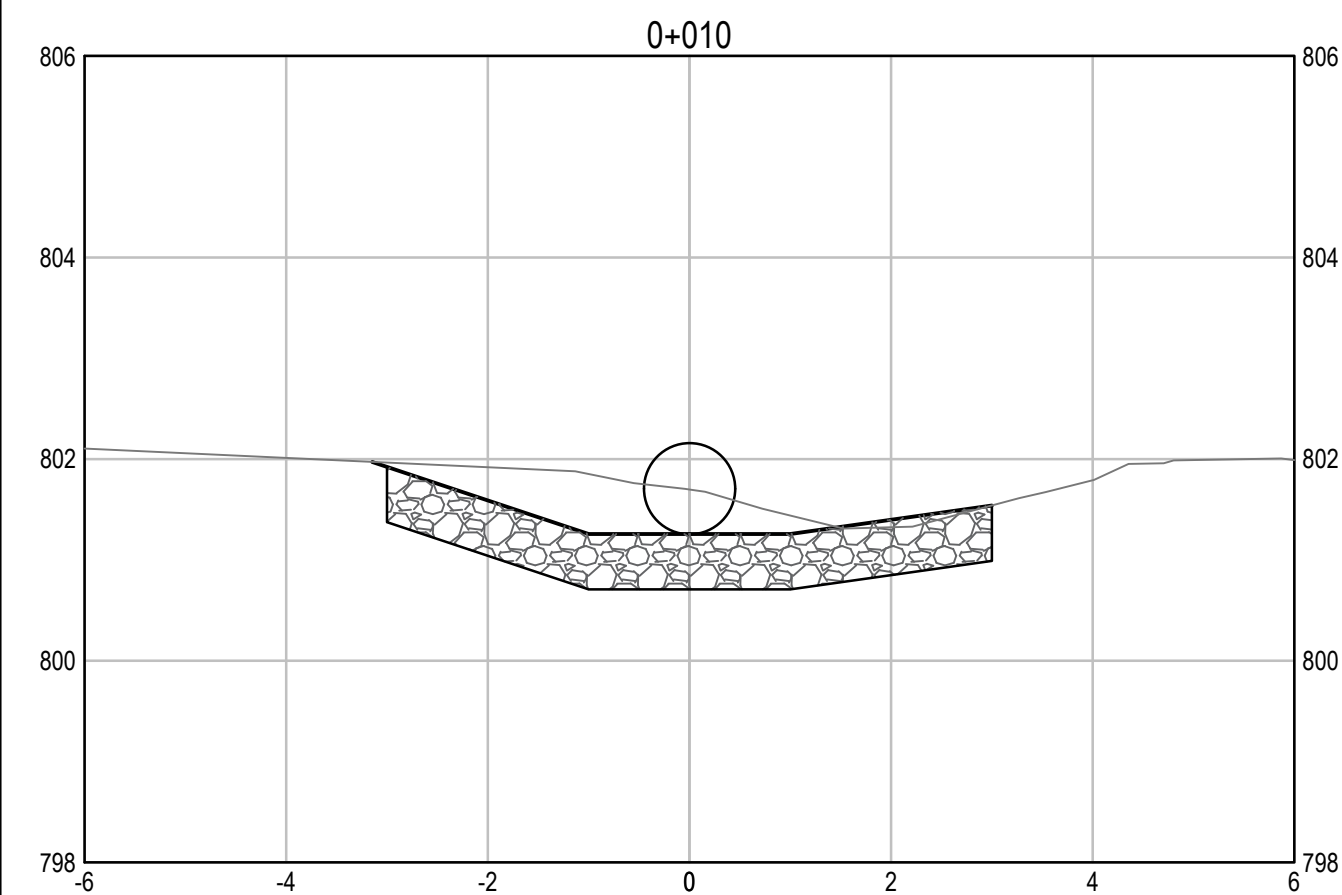
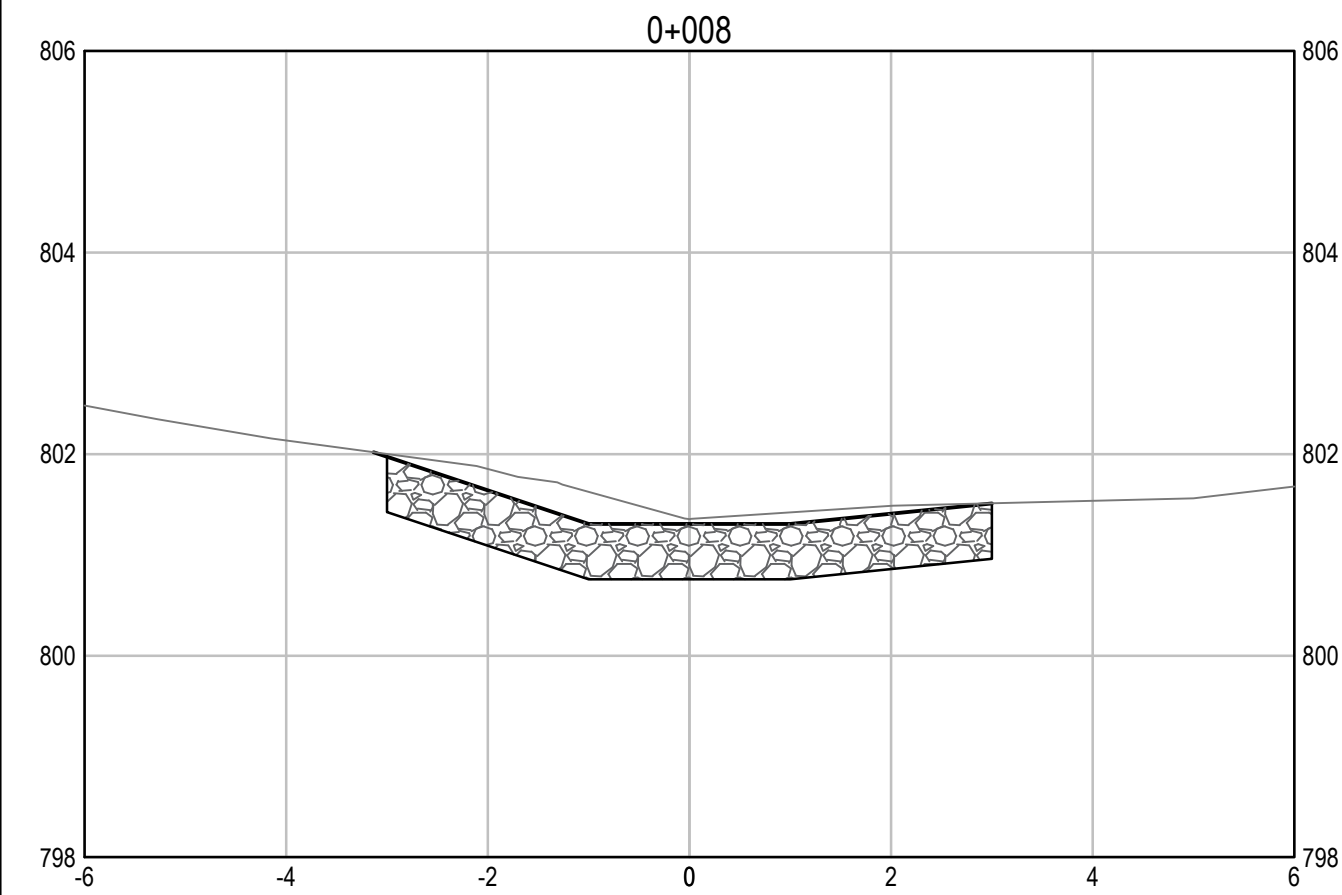
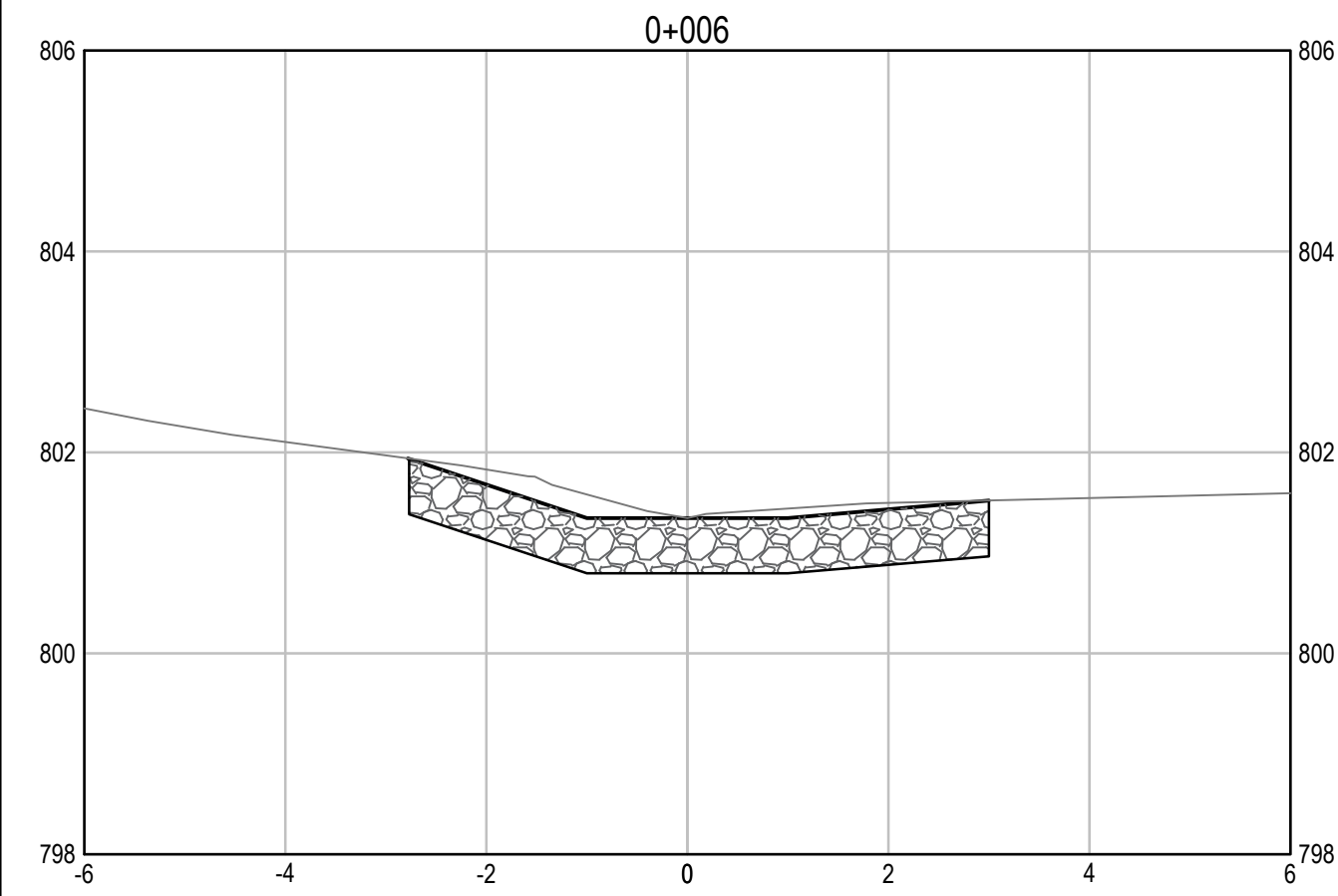
Drawing title/Titre du dessin  
**KM 332.05 CULVERT PLAN / PROFILE**

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
<b>R.115075.003</b>	<b>C2141</b>	<b>0</b>

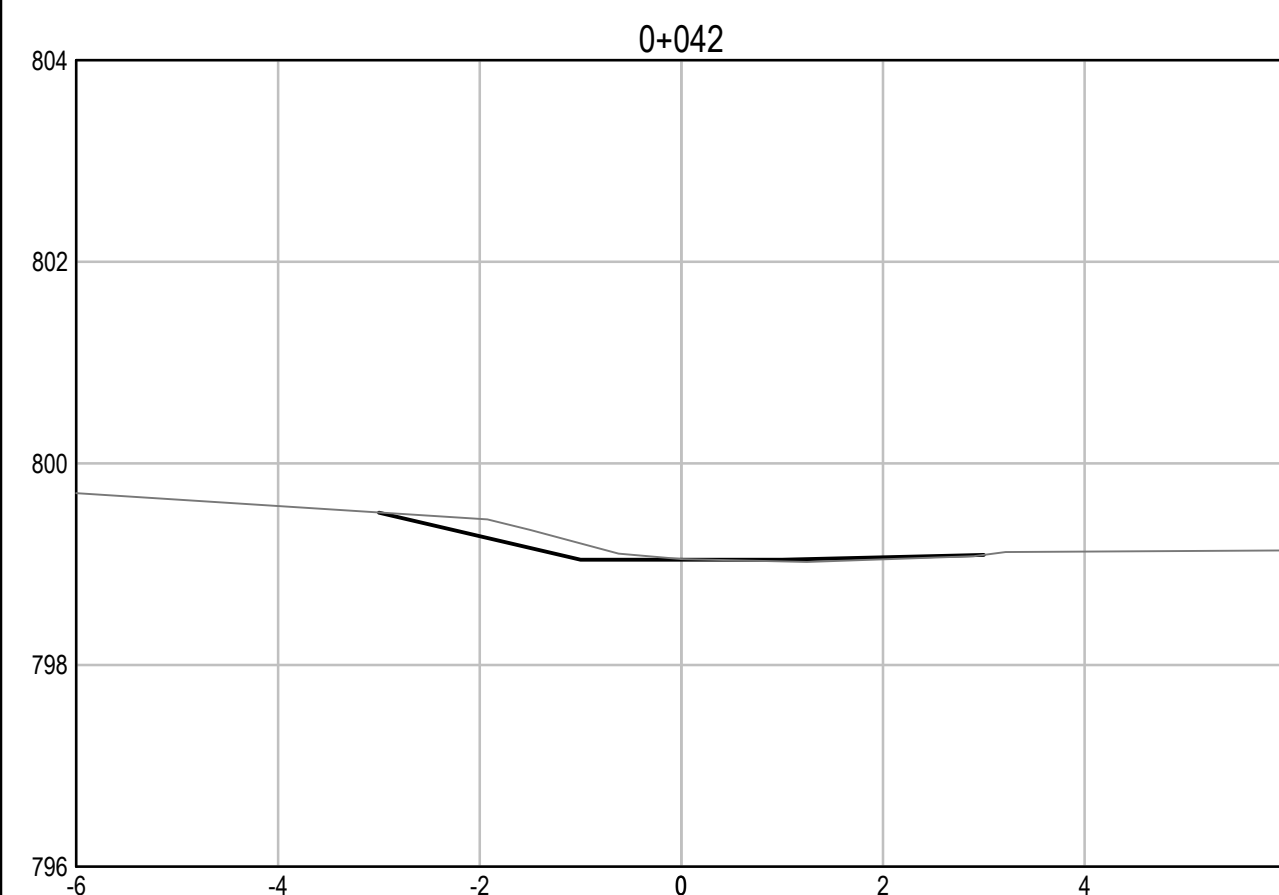
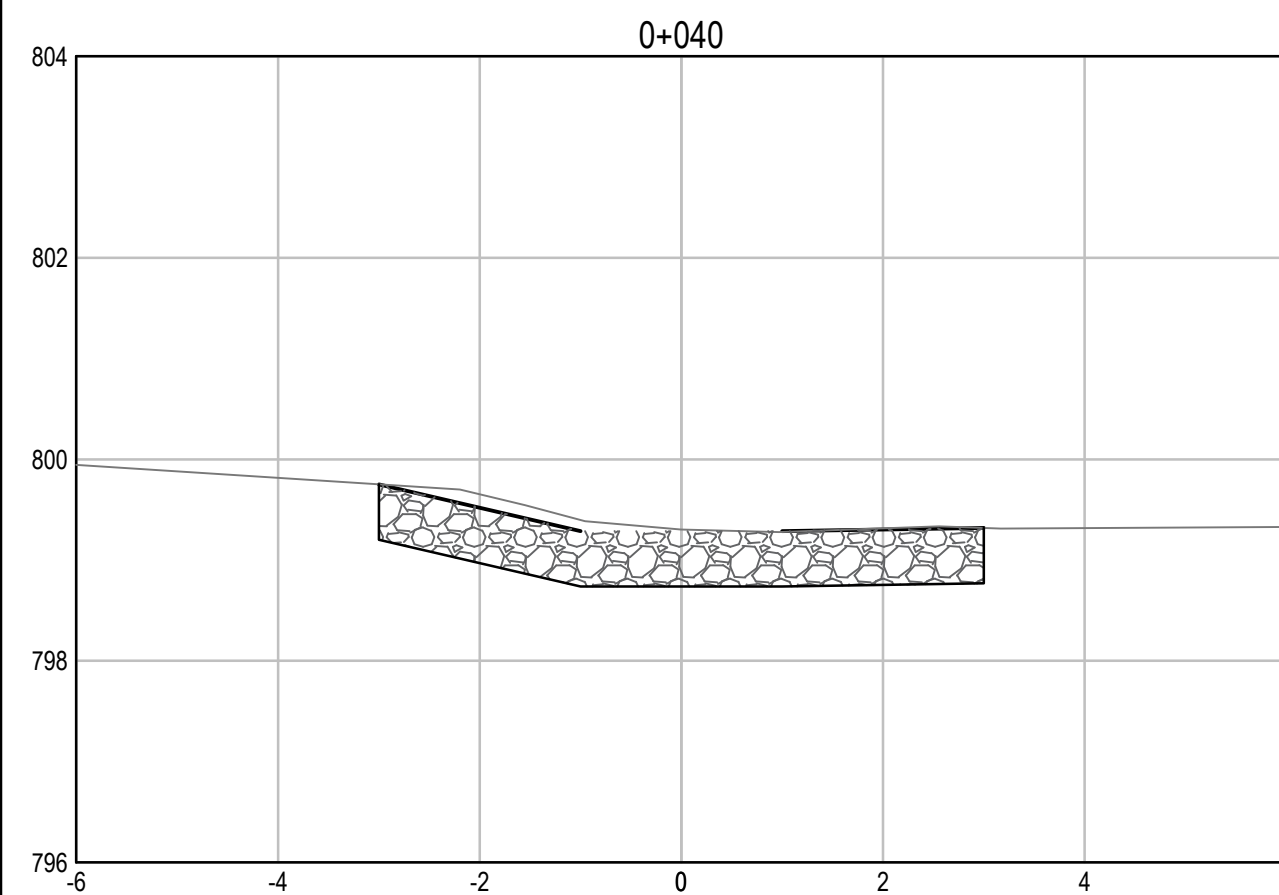
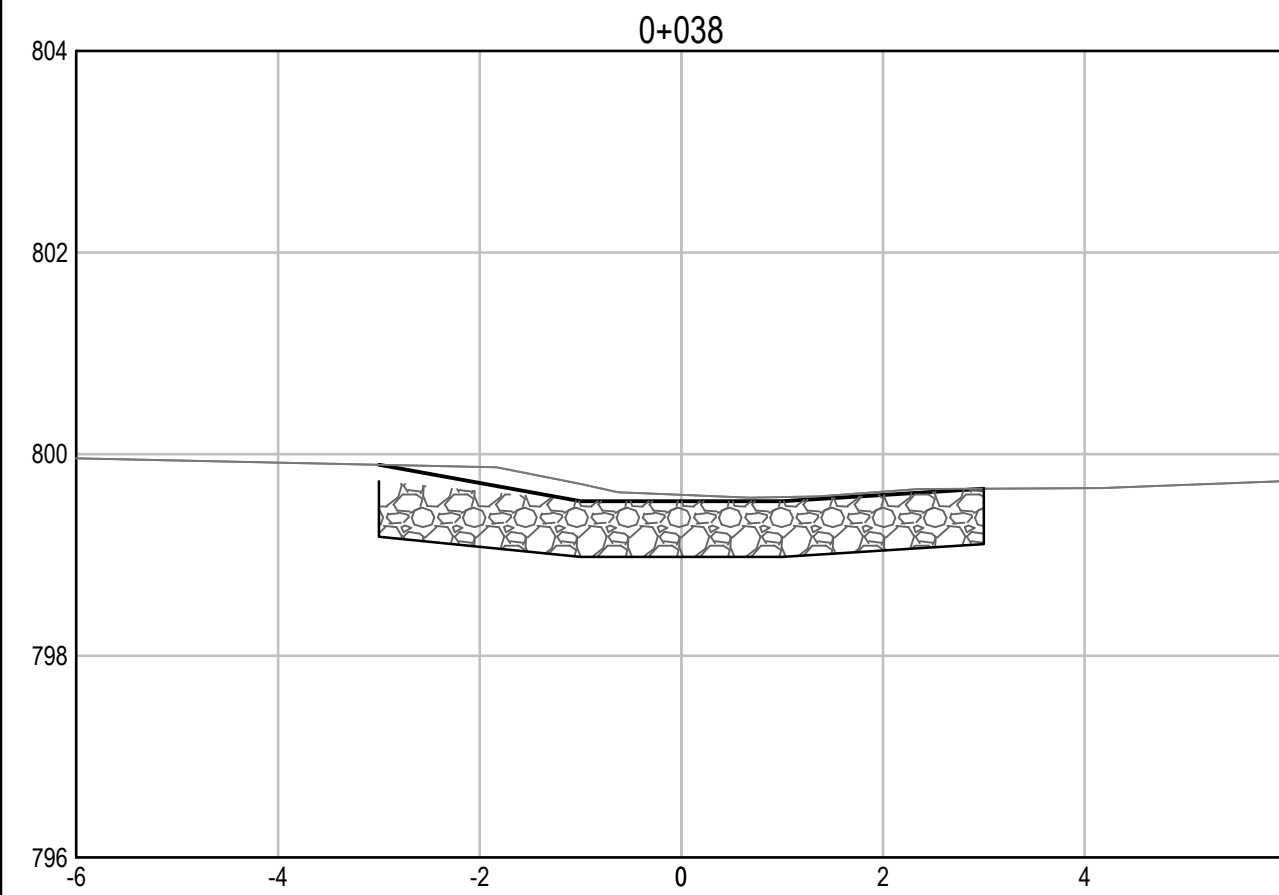
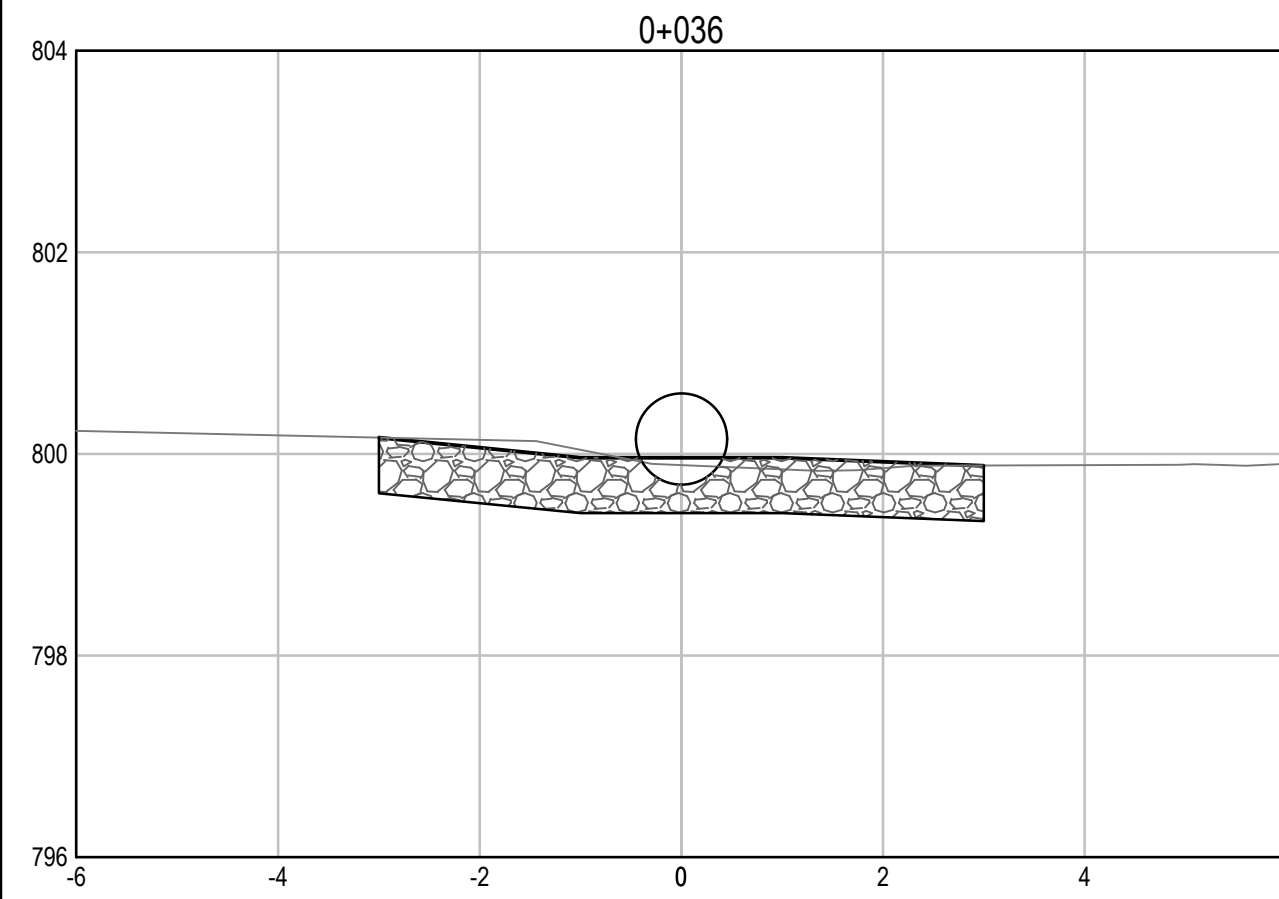




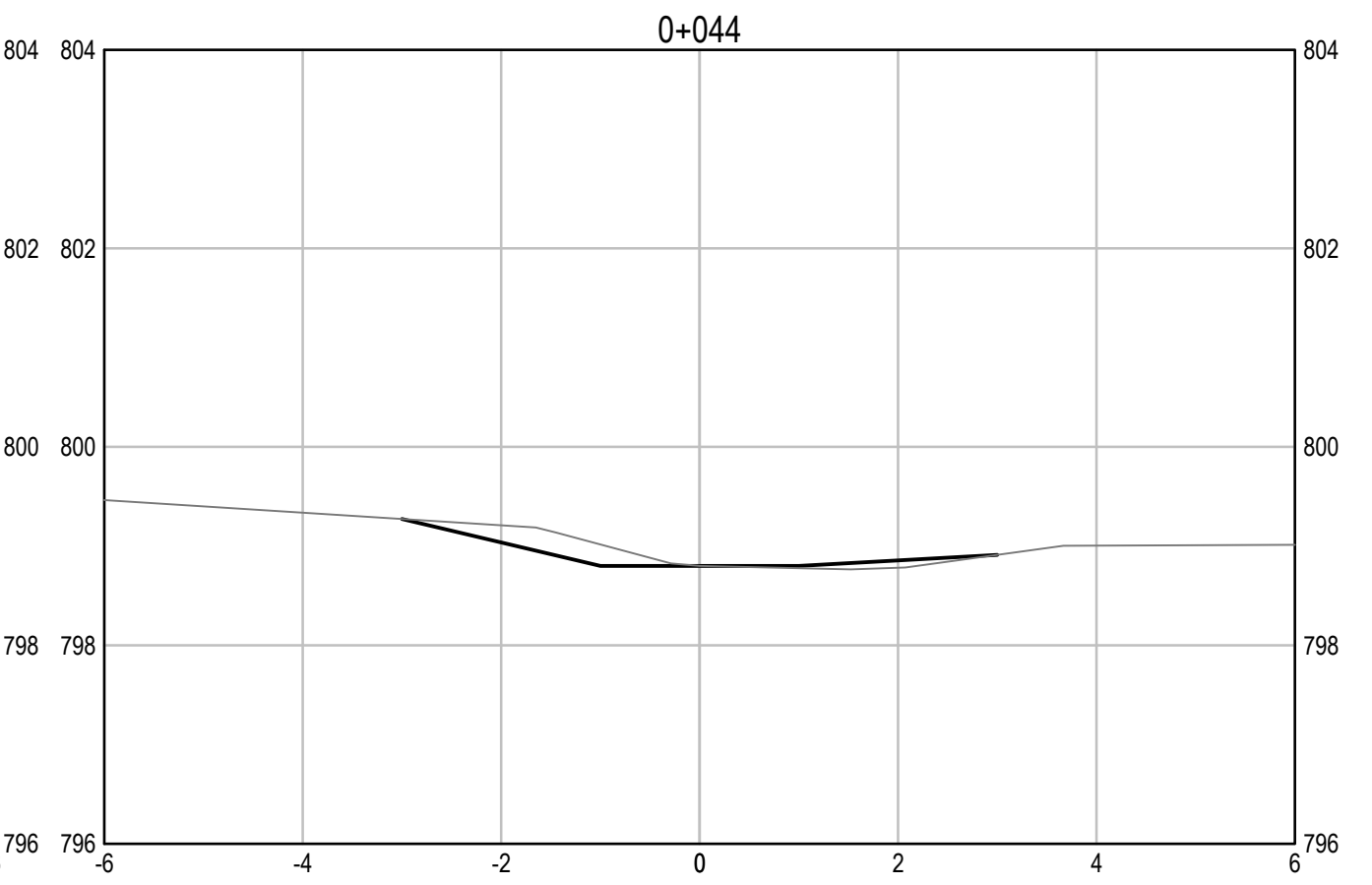
Q:\Vancouver\Transportation\TRN\WHY\Projects\TRN\WHY\03\64 Alaska Highway Paving Km 325 - 355 & Km 520 - 555\CAD\Sheets\KM 325 Culverts\C2142 KM 332.05 333.18 335.06 339.66 CULVERTS.dwg [C2142] July 21, 2021 - 2:10:16 pm (BY: TAKEDA, TAKUMA)



**INLET CROSS SECTIONS**  
SCALE: 1:75

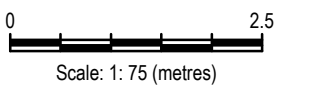


**OUTLET CROSS SECTIONS**  
SCALE: 1:75



**ISSUED FOR TENDER**

- GENERAL NOTES:
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Revision/Édition	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/07/21

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**



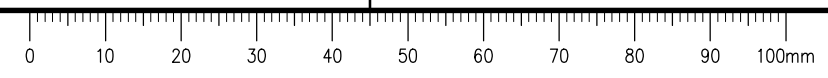
Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

Approved by/Approuvé par  
**T. TAKEDA**  
Designed by/Concept par  
**A. DEEPWELL**  
Drawn by/Dessiné par  
**A. DEEPWELL / J. SCHITTHELM**  
PSPC Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**  
PSPC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSGC

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

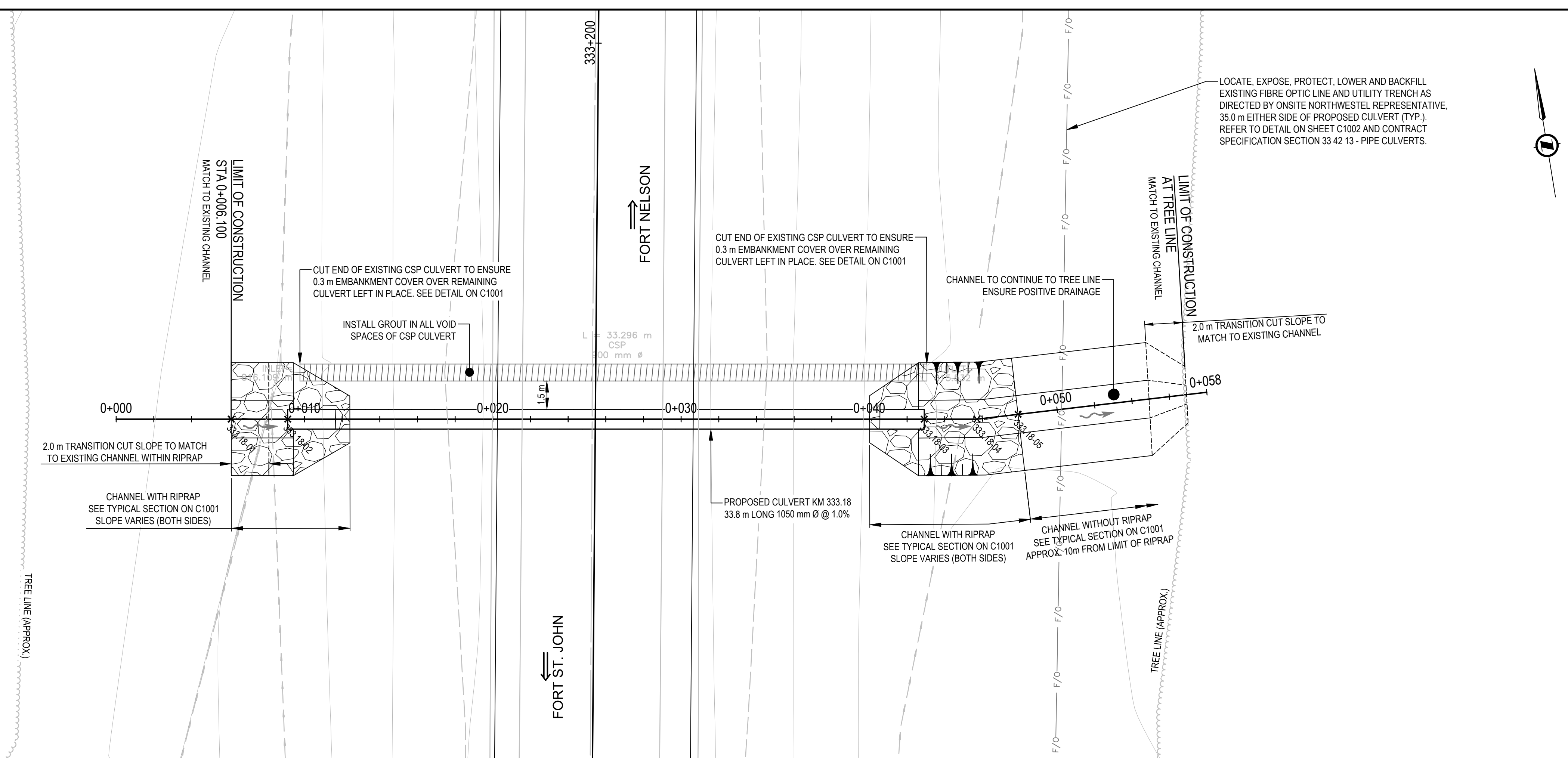
Drawing title/Titre du dessin  
**KM 332.05 CULVERT PROPOSED CHANNEL CROSS SECTIONS**

Project No./No. du projet <b>R.115075.003</b>	Sheet/Feuille <b>C2142</b>	Revision no./La Révision no. <b>0</b>
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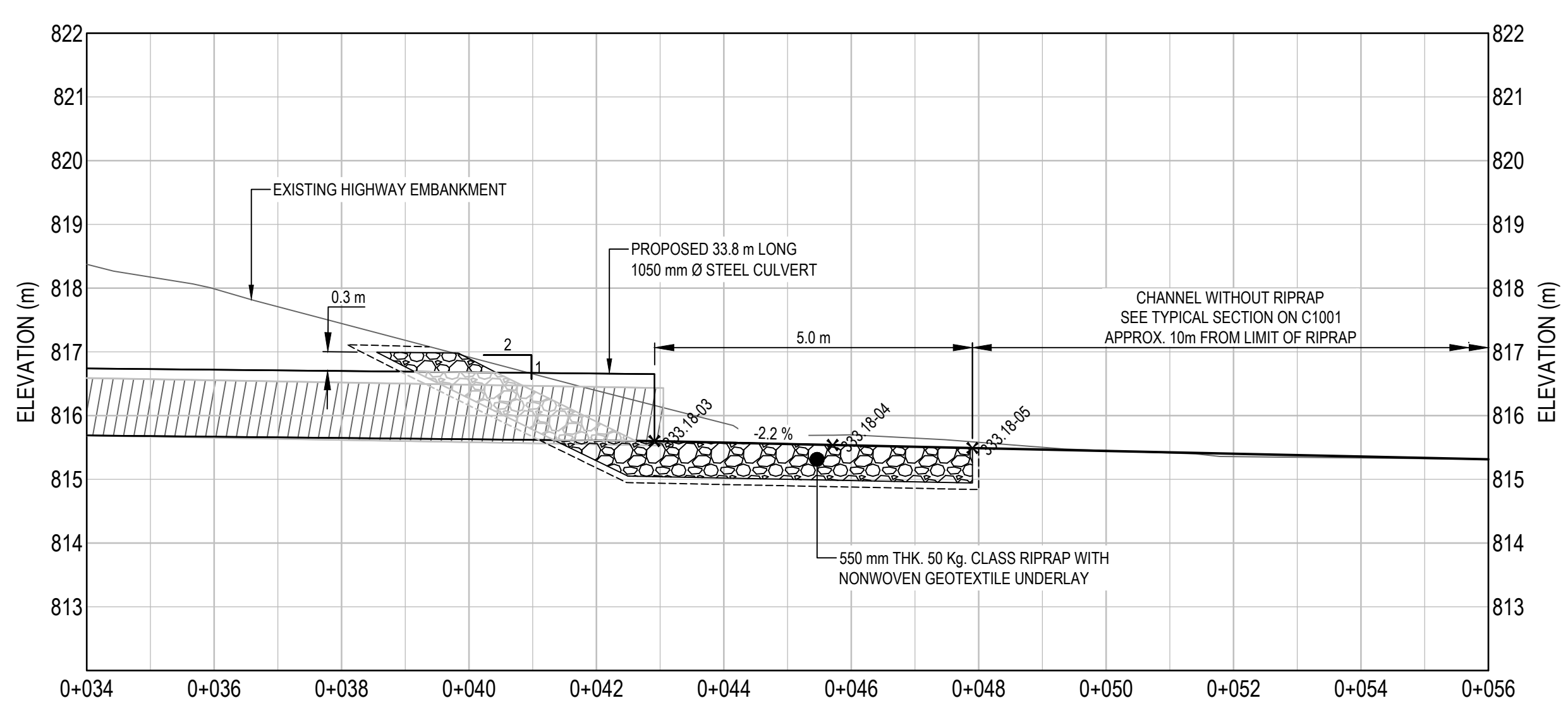
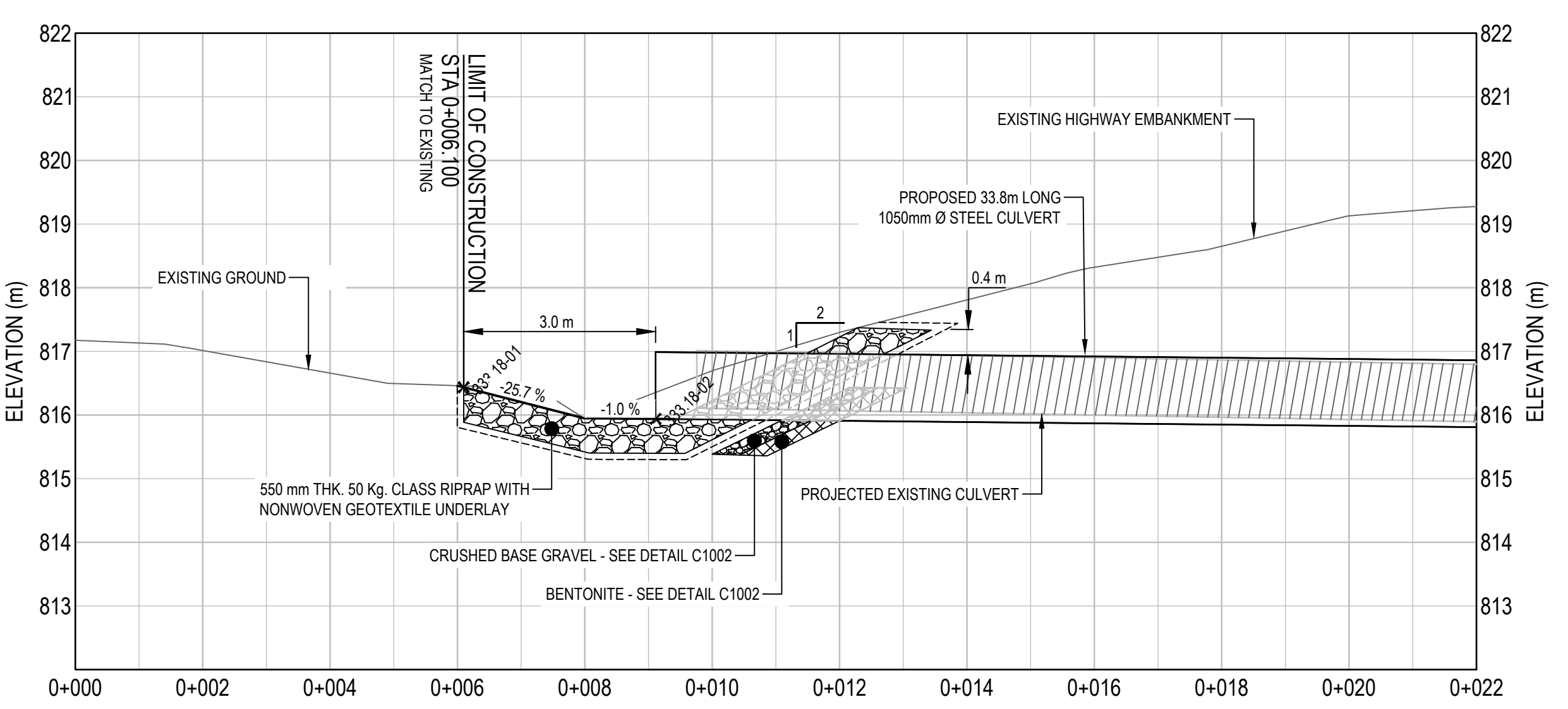
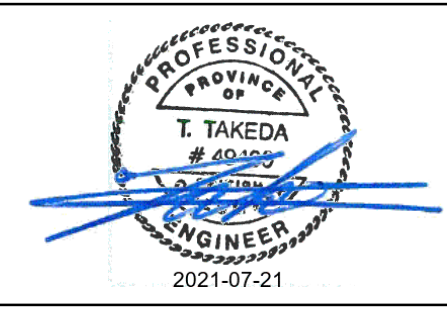


# ISSUED FOR TENDER

- GENERAL NOTES:
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POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
333.18-01	6,410,885.401	508,506.094	816.434	RIPRAP LIMIT
333.18-02	6,410,884.914	508,509.055	815.939	INLET INVERT
333.18-03	6,410,879.432	508,542.405	815.601	OUTLET INVERT
333.18-04	6,410,878.977	508,545.170	815.540	PI
333.18-05	6,410,878.875	508,547.368	818.492	RIPRAP LIMIT



0	ISSUED FOR TENDER	21/07/21
Revision/	Description/Description	Date/Date

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**



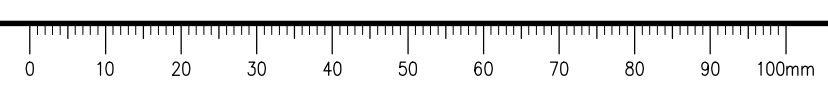
Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

Approved by/Approve par  
**T. TAKEDA**  
 Designed by/Concept par  
**A. DEEPWELL**  
 Drawn by/Dessiné par  
**A. DEEPWELL / J. SCHITTHELM**  
 PSPC Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

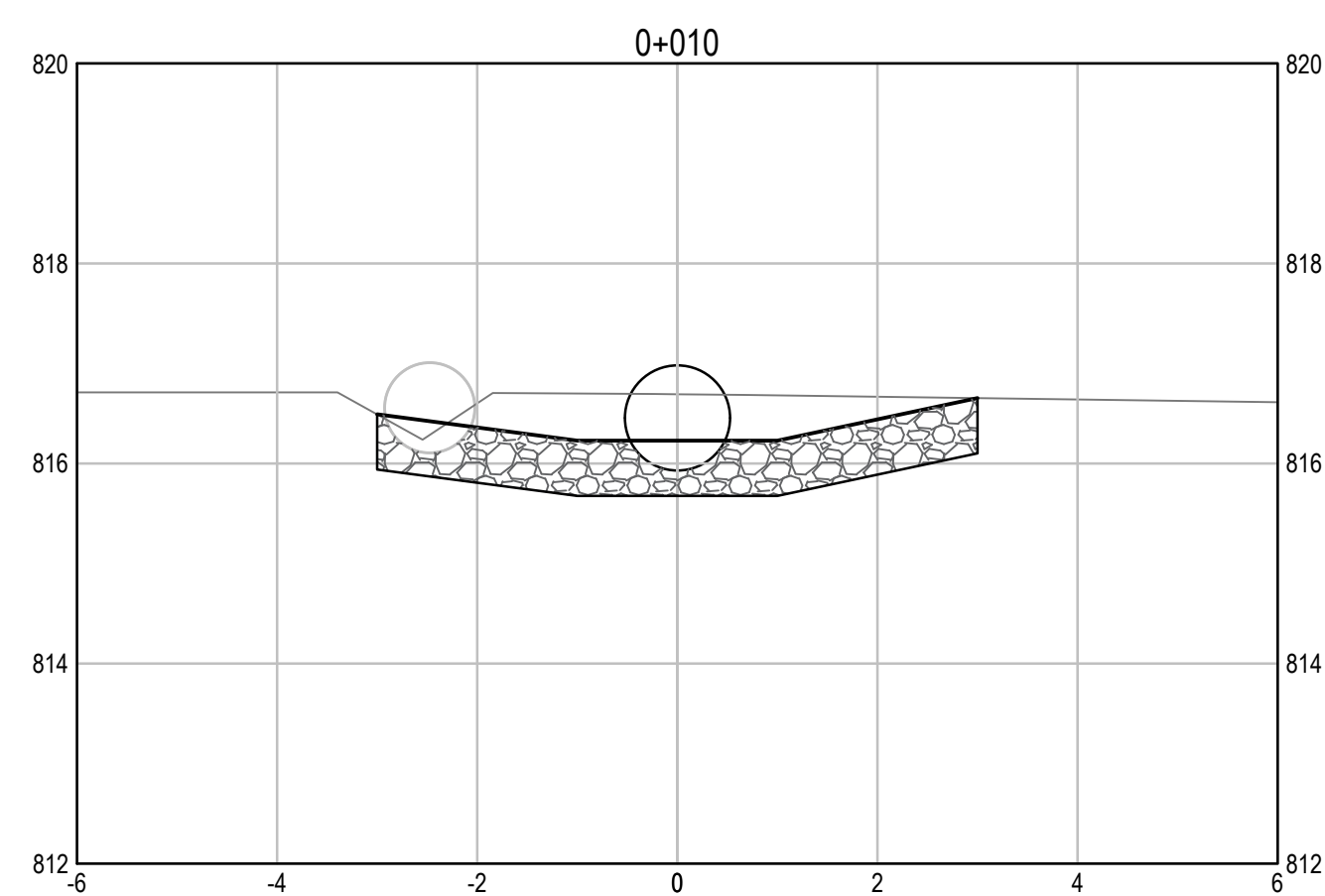
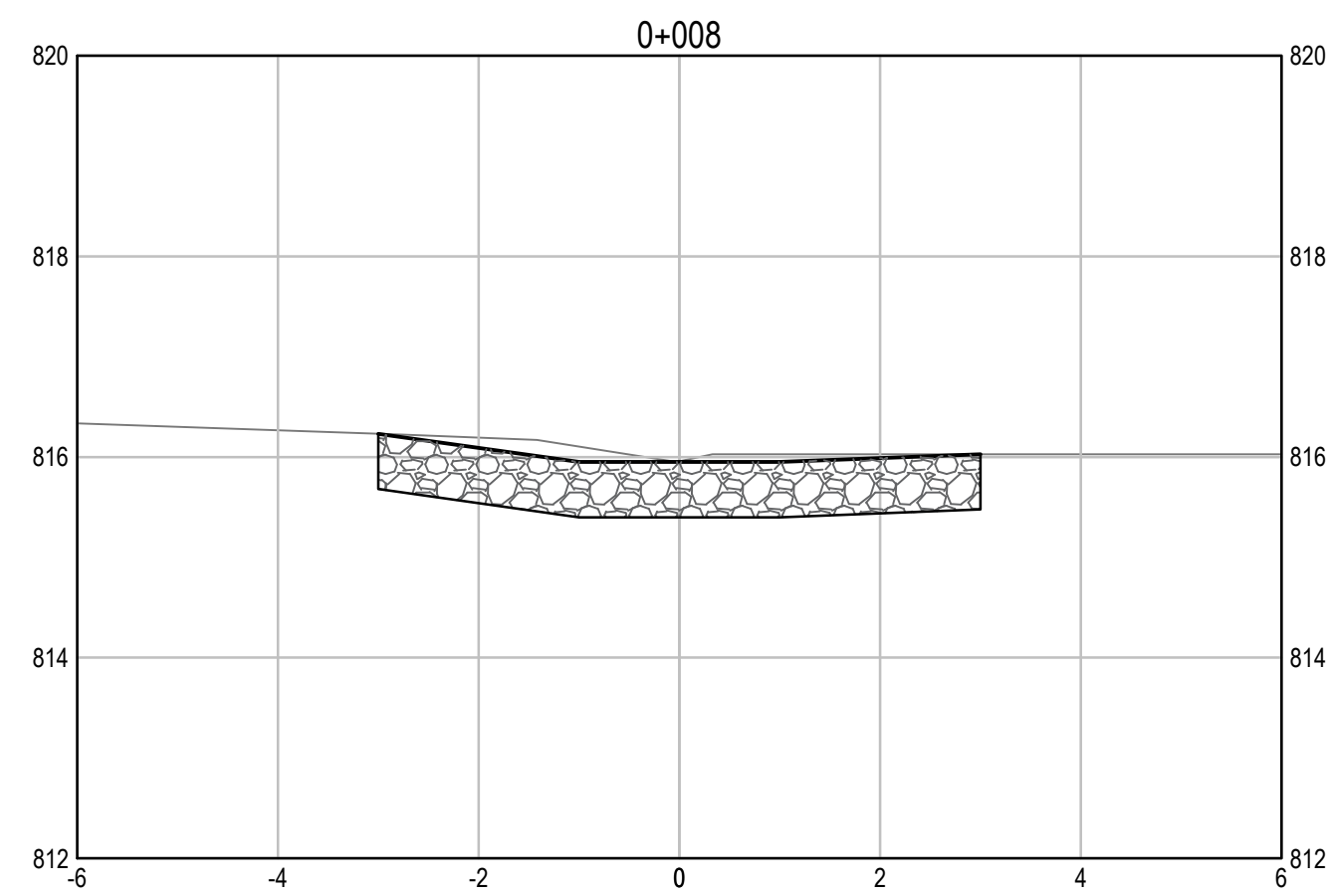
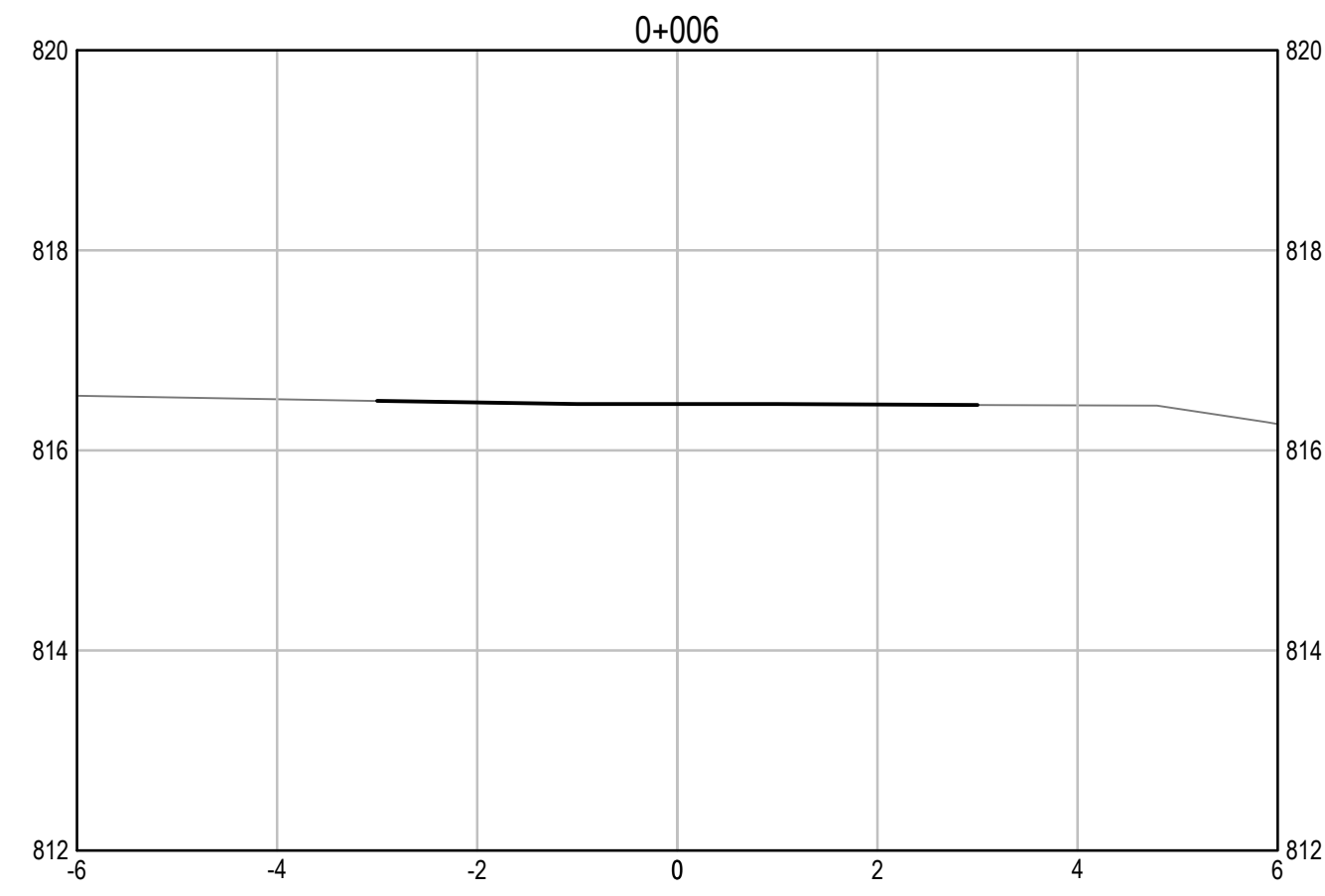
Drawing title/Titre du dessin  
**KM 333.18 CULVERT PLAN / PROFILE**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
<b>R.115075.003</b>	<b>C2151</b>	<b>0</b>

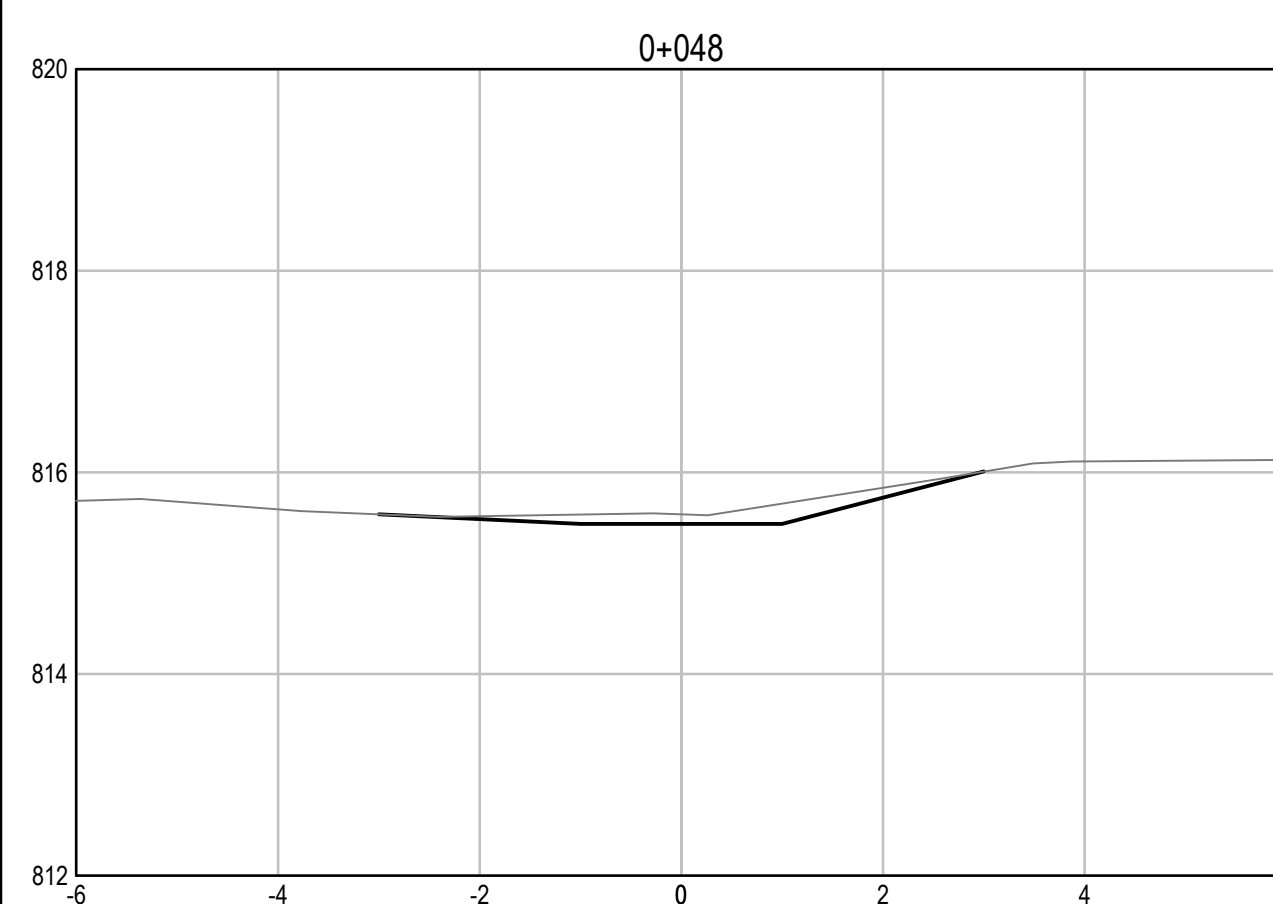
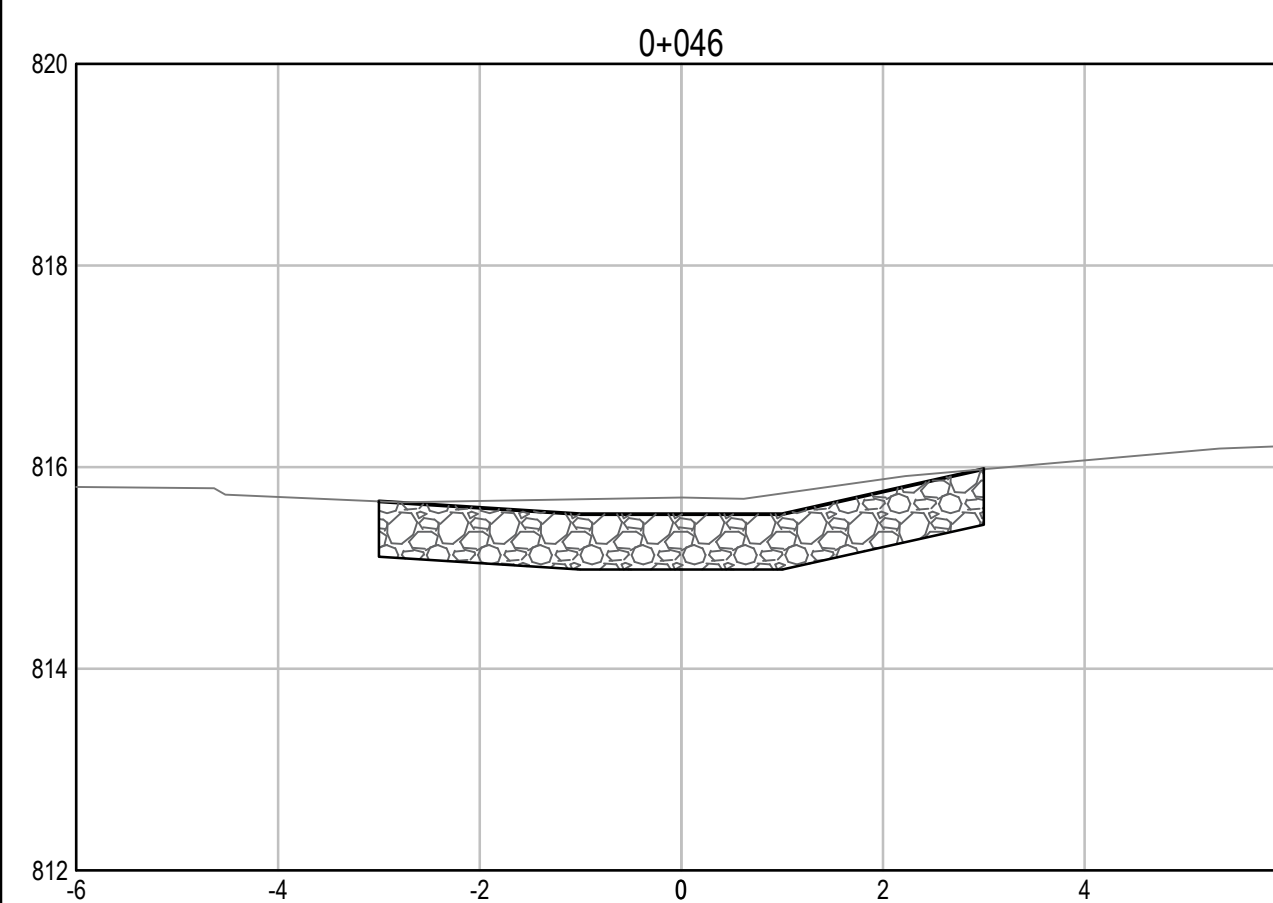
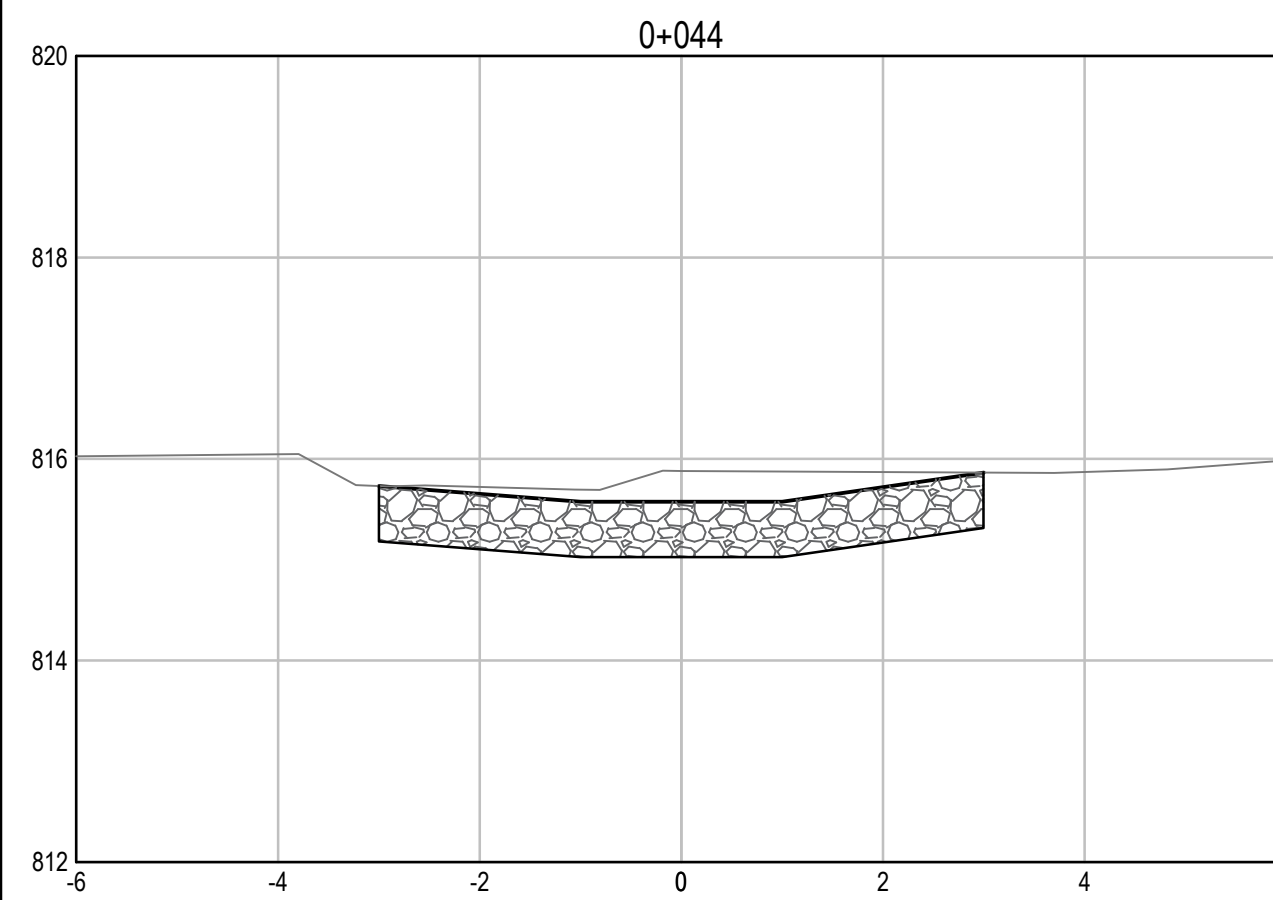
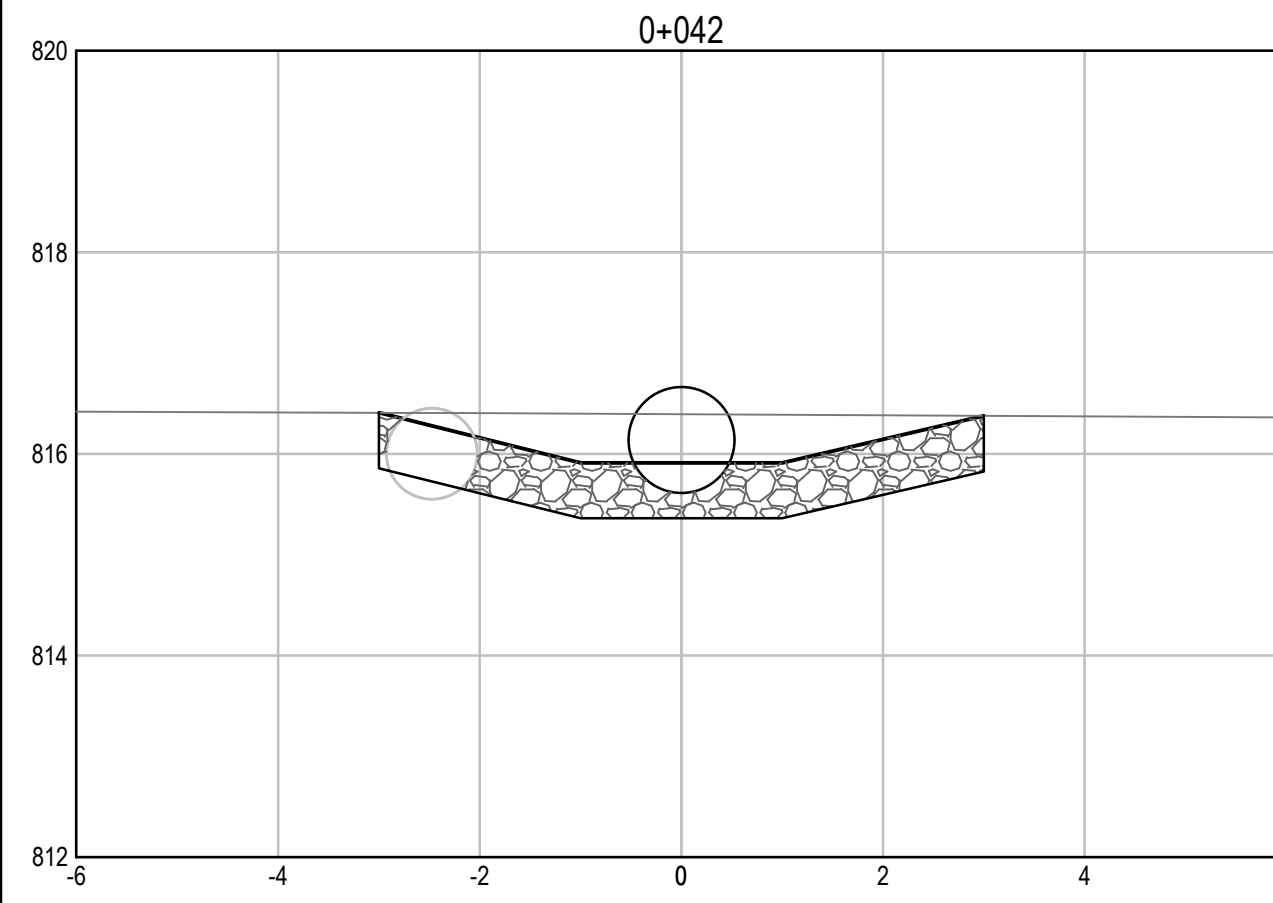




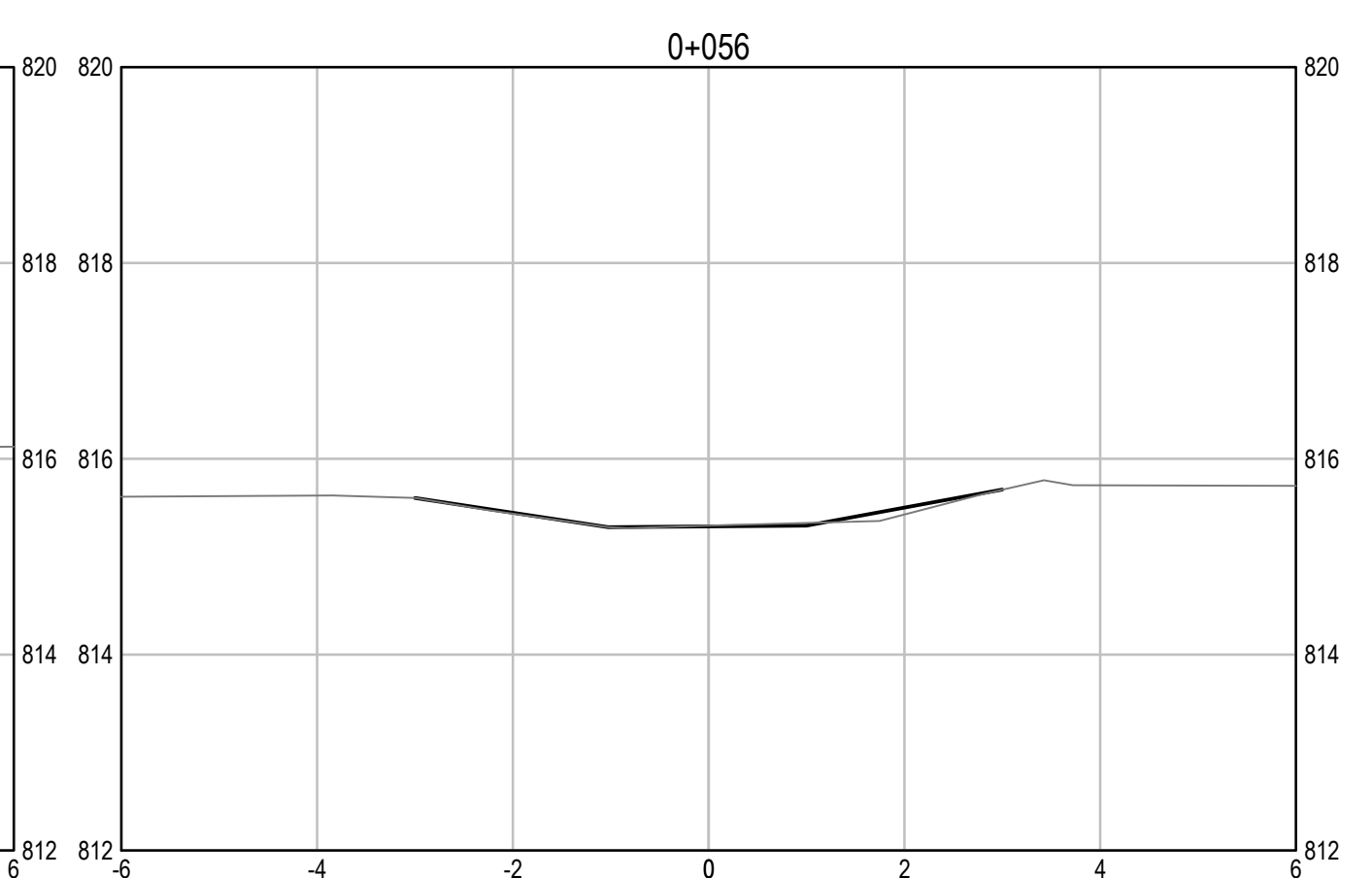
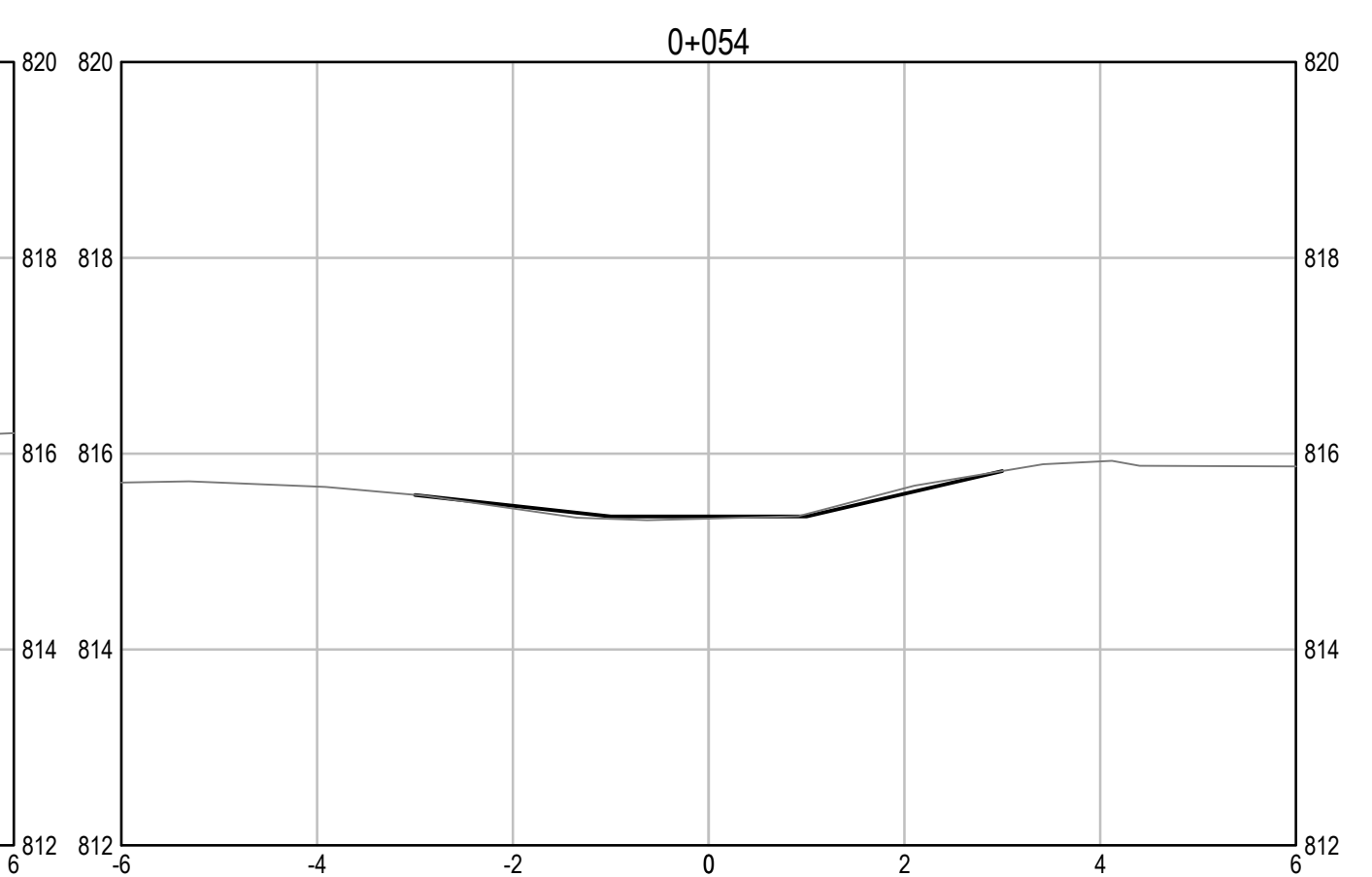
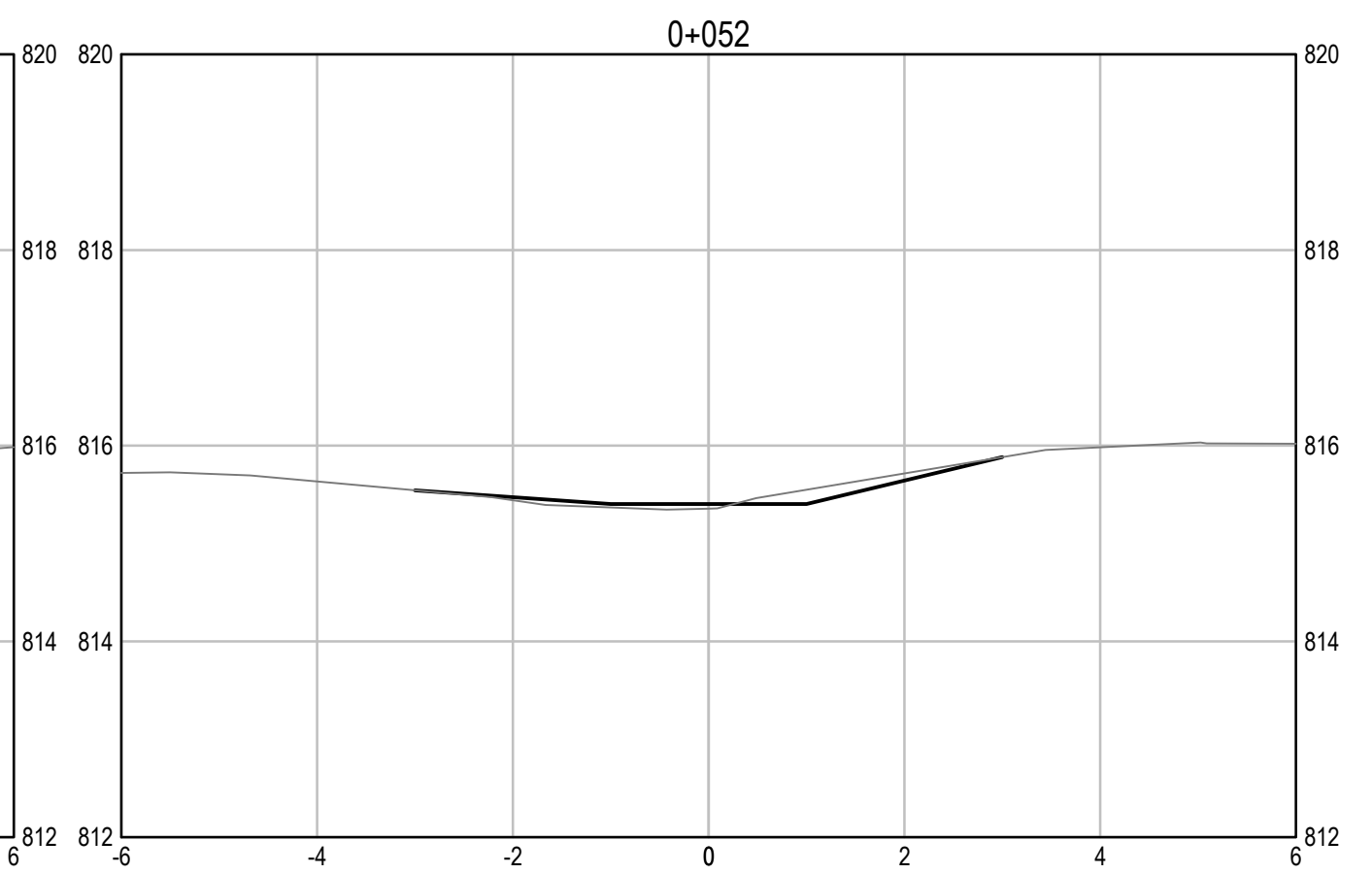
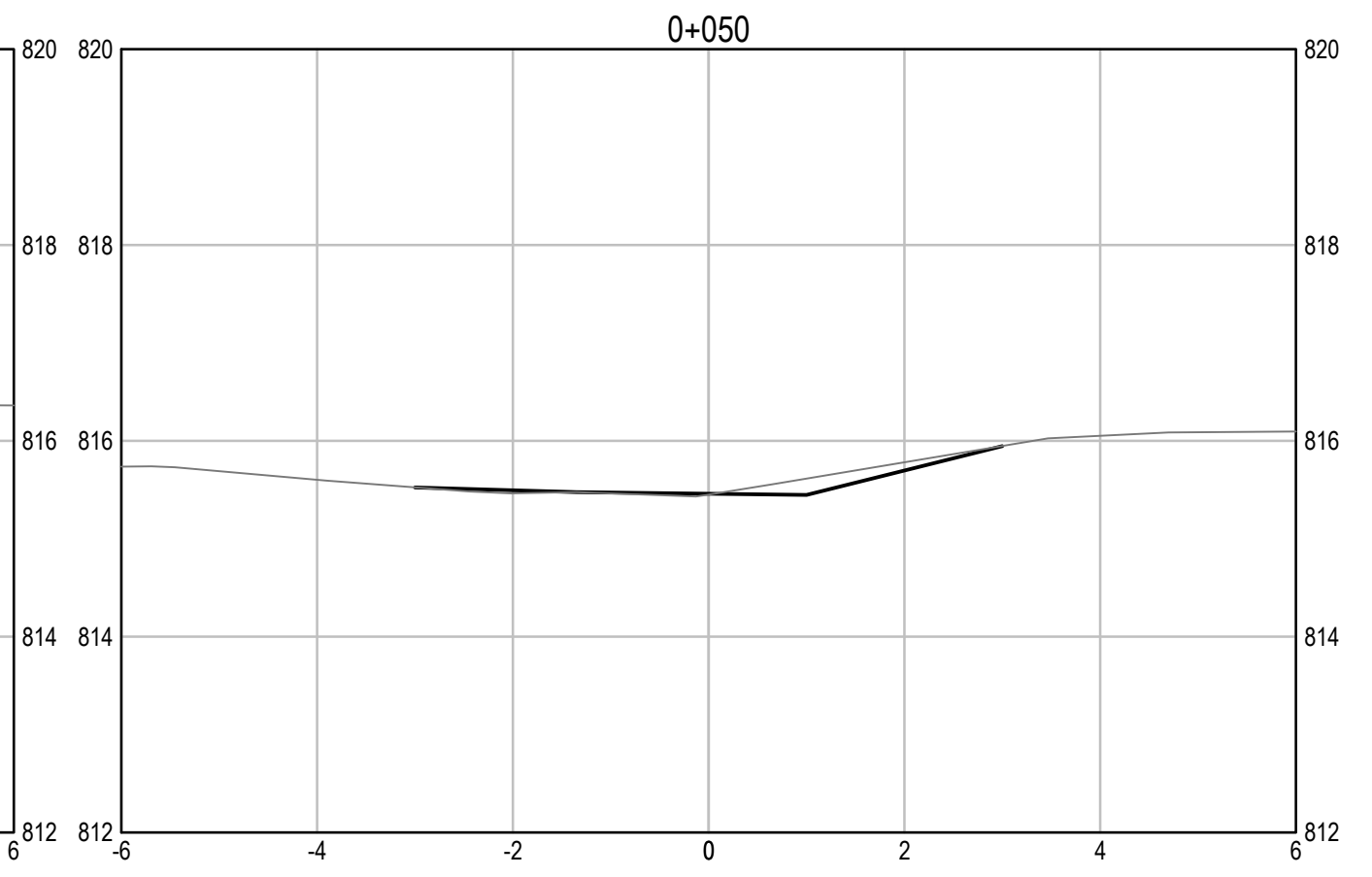
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**INLET CROSS SECTIONS**  
SCALE: 1:75

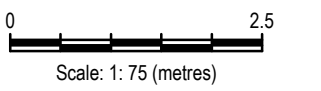
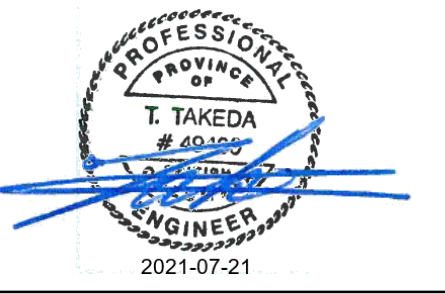


**OUTLET CROSS SECTIONS**  
SCALE: 1:75



**ISSUED FOR TENDER**

- GENERAL NOTES:
1. DIMENSIONS, COORDINATES, ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE.
  2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
  3. ALL DISTURBED AREAS WITHOUT RIPRAP TO BE HYDROSEDED.
  4. FOR ADDITIONAL INFORMATION REFER TO CULVERT PLAN AND PROFILE DRAWINGS.



Revision/Édition	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/07/21

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

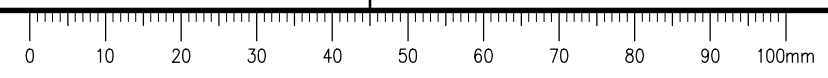


Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

Approved by/Approuvé par  
**T. TAKEDA**  
Designed by/Concept par  
**A. DEEPWELL**  
Drawn by/Dessiné par  
**A. DEEPWELL / J. SCHITTHELM**  
PSPC Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**  
PSPC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC

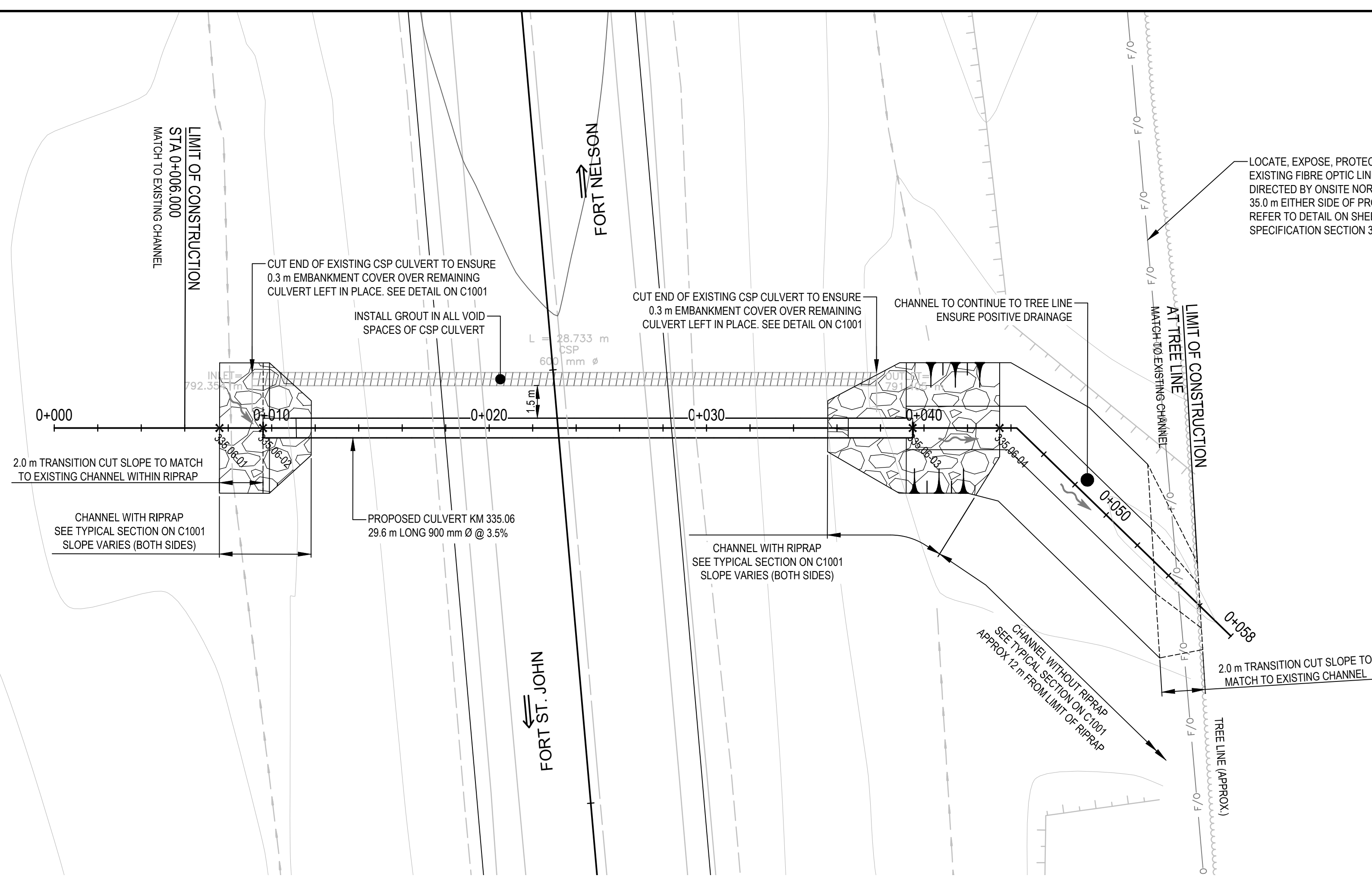
Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**  
Drawing title/Titre du dessin  
**KM 333.18 CULVERT PROPOSED CHANNEL CROSS SECTIONS**

Project No./No. du projet <b>R.115075.003</b>	Sheet/Feuille <b>C2152</b>	Revision no./La Révision no. <b>0</b>
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# ISSUED FOR TENDER

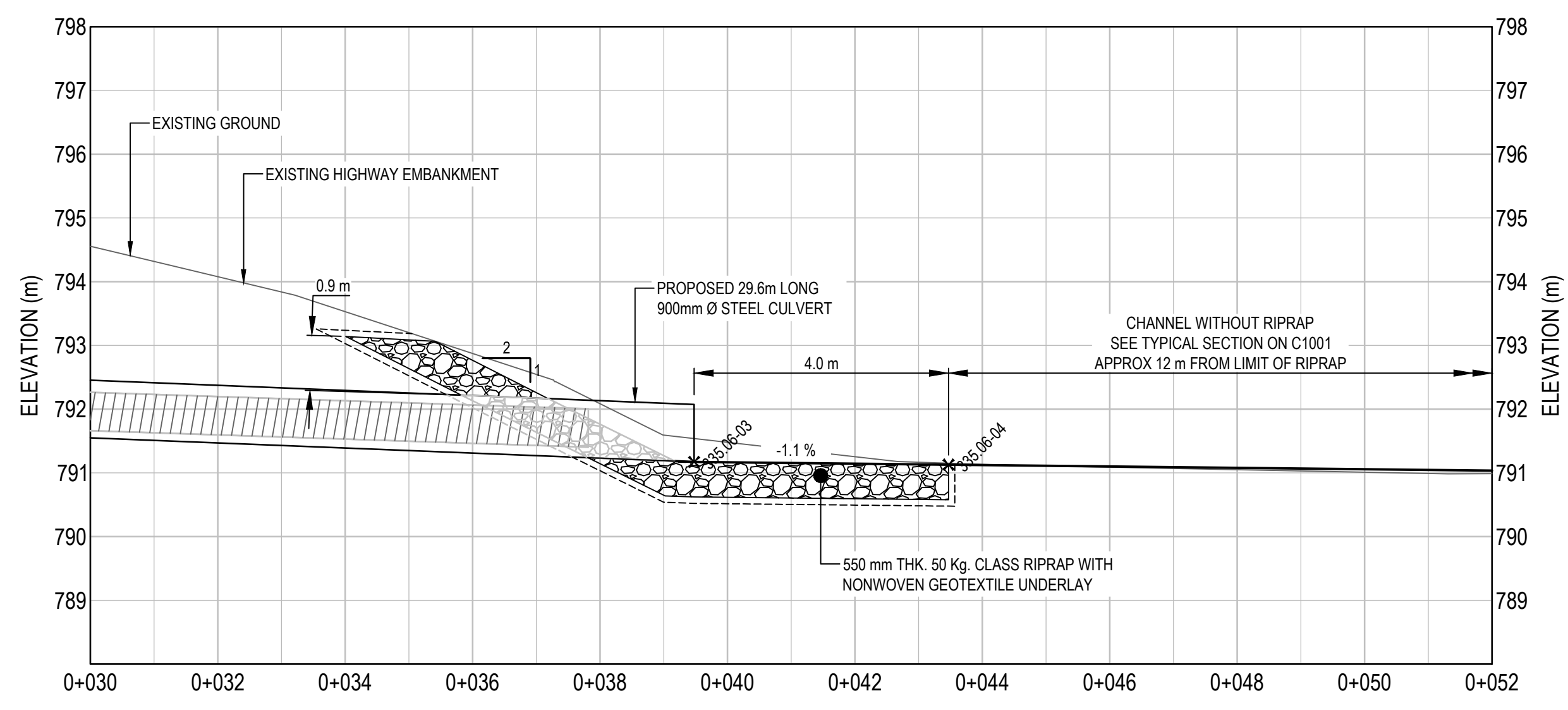
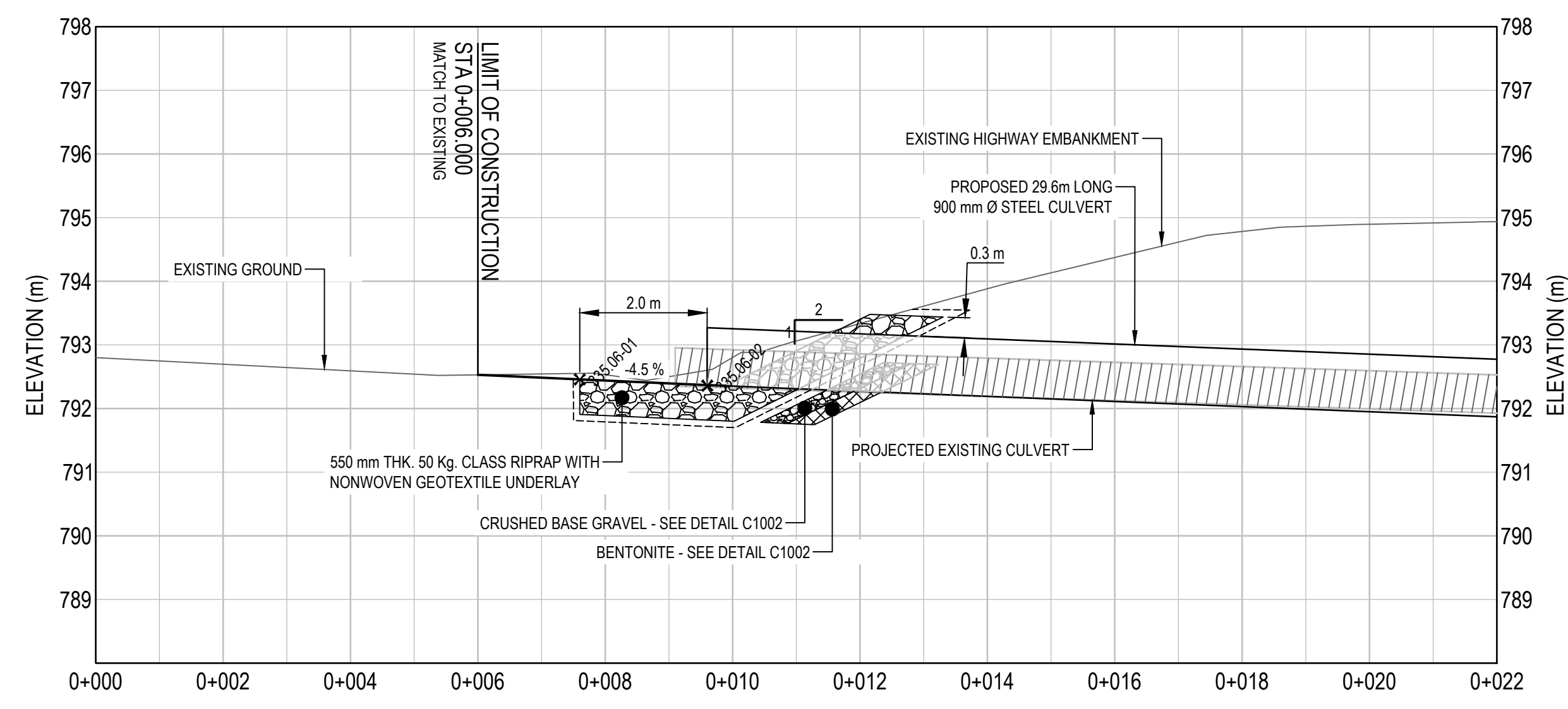
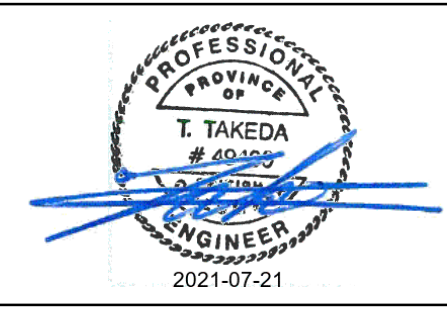
- GENERAL NOTES:
- DIMENSIONS, COORDINATES, ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
  - ALL DISTURBED AREAS WITHOUT RIPRAP TO BE HYDROSEEDED.
  - FOR ADDITIONAL INFORMATION REFER TO CULVERT PLAN AND PROFILE DRAWINGS.



LOCATE, EXPOSE, PROTECT, LOWER AND BACKFILL EXISTING FIBRE OPTIC LINE AND UTILITY TRENCH AS DIRECTED BY ONSITE NORTHWESTEL REPRESENTATIVE, 35.0 m EITHER SIDE OF PROPOSED CULVERT (TYP.). REFER TO DETAIL ON SHEET C1002 AND CONTRACT SPECIFICATION SECTION 33 42 13 - PIPE CULVERTS.

LAYOUT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
335.06-01	6,412,736.185	508,829.326	792.458	RIPRAP LIMIT
335.06-02	6,412,735.673	508,831.260	792.368	INLET INVERT
335.06-03	6,412,728.061	508,860.150	791.173	OUTLET INVERT
335.06-04	6,412,727.045	508,864.018	791.129	RIPRAP LIMIT



0	ISSUED FOR TENDER	21/07/21
Revision/	Description/Description	Date/Date

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**



Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

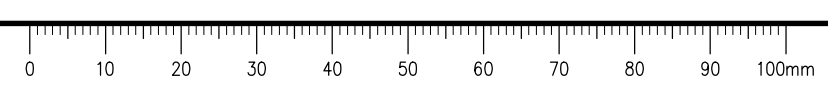
Approved by/Approve par  
**T. TAKEDA**  
 Designed by/Concept par  
**A. DEEPWELL**  
 Drawn by/Dessiné par  
**A. DEEPWELL / J. SCHITTHELM**

PSPC Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

Drawing title/Titre du dessin  
**KM 335.06 CULVERT PLAN / PROFILE**

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
<b>R.115075.003</b>	<b>C2161</b>	<b>0</b>





# ISSUED FOR TENDER

- GENERAL NOTES:
1. DIMENSIONS, COORDINATES, ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE.
  2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
  3. ALL DISTURBED AREAS WITHOUT RIPRAP TO BE HYDROSEDED.
  4. FOR ADDITIONAL INFORMATION REFER TO CULVERT PLAN AND PROFILE DRAWINGS.



Scale: 1:75 (metres)

Revision/Évaluation	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/07/21

**PUBLIC SERVICES AND PROCUREMENT CANADA**



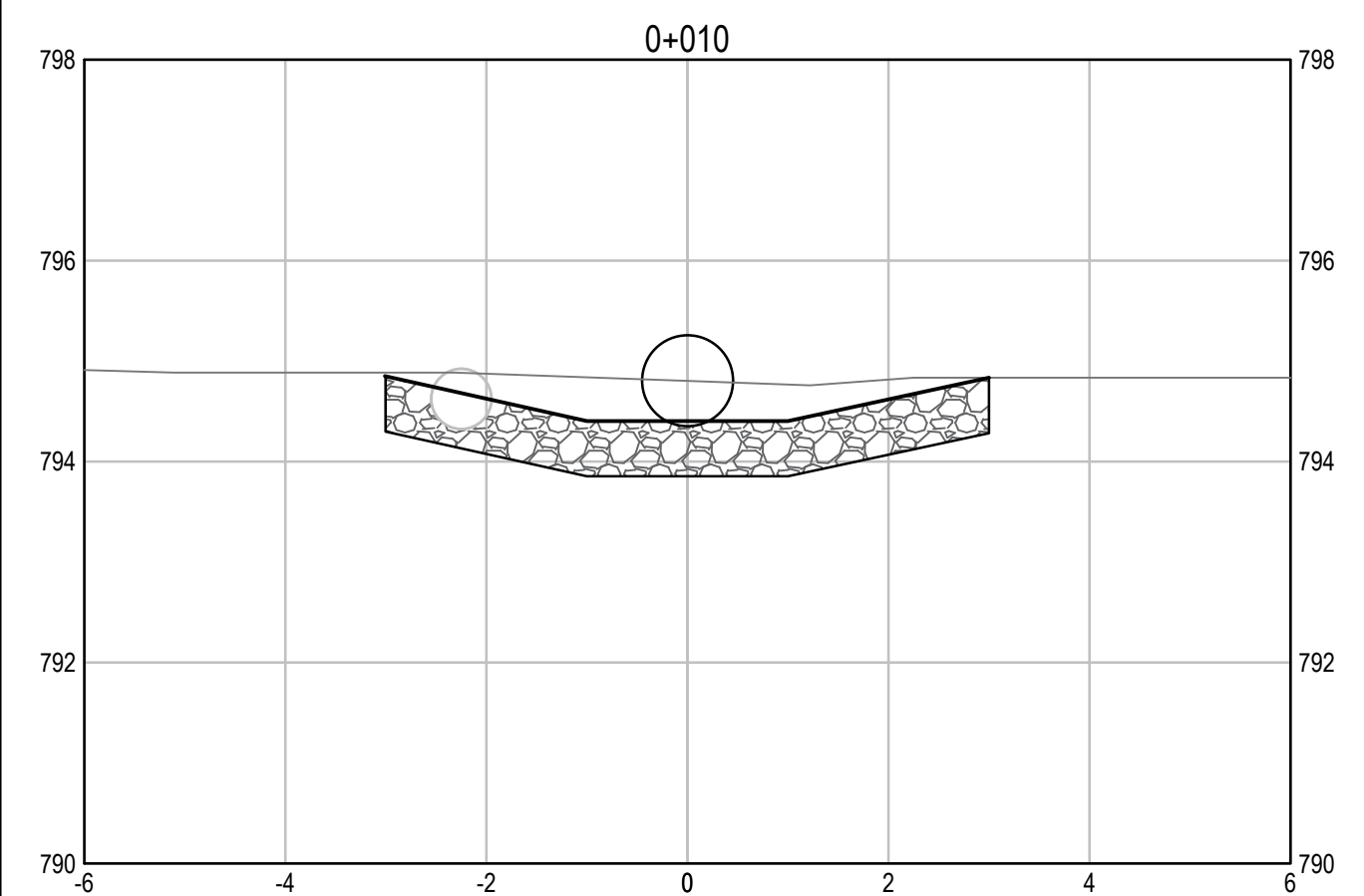
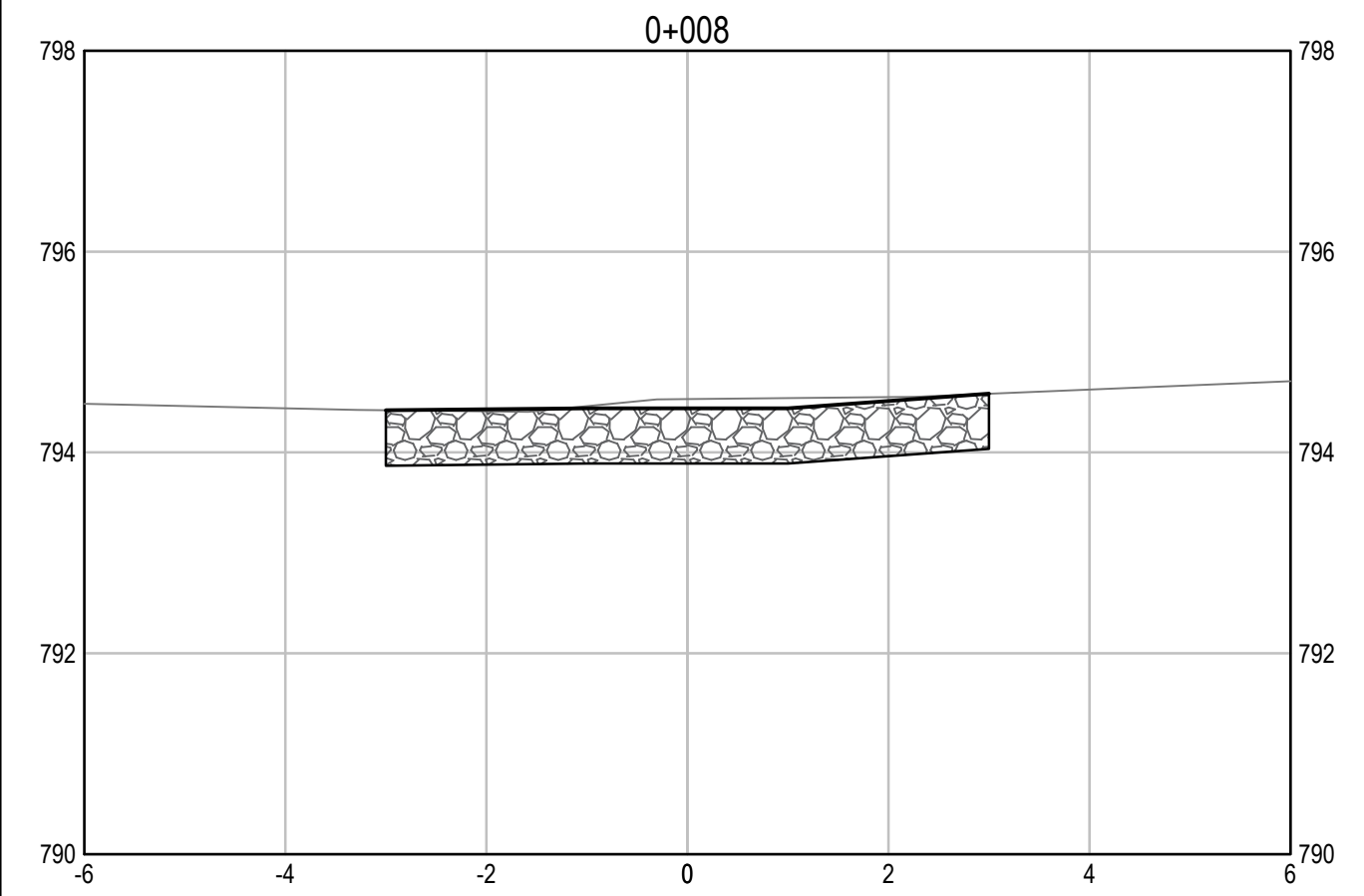
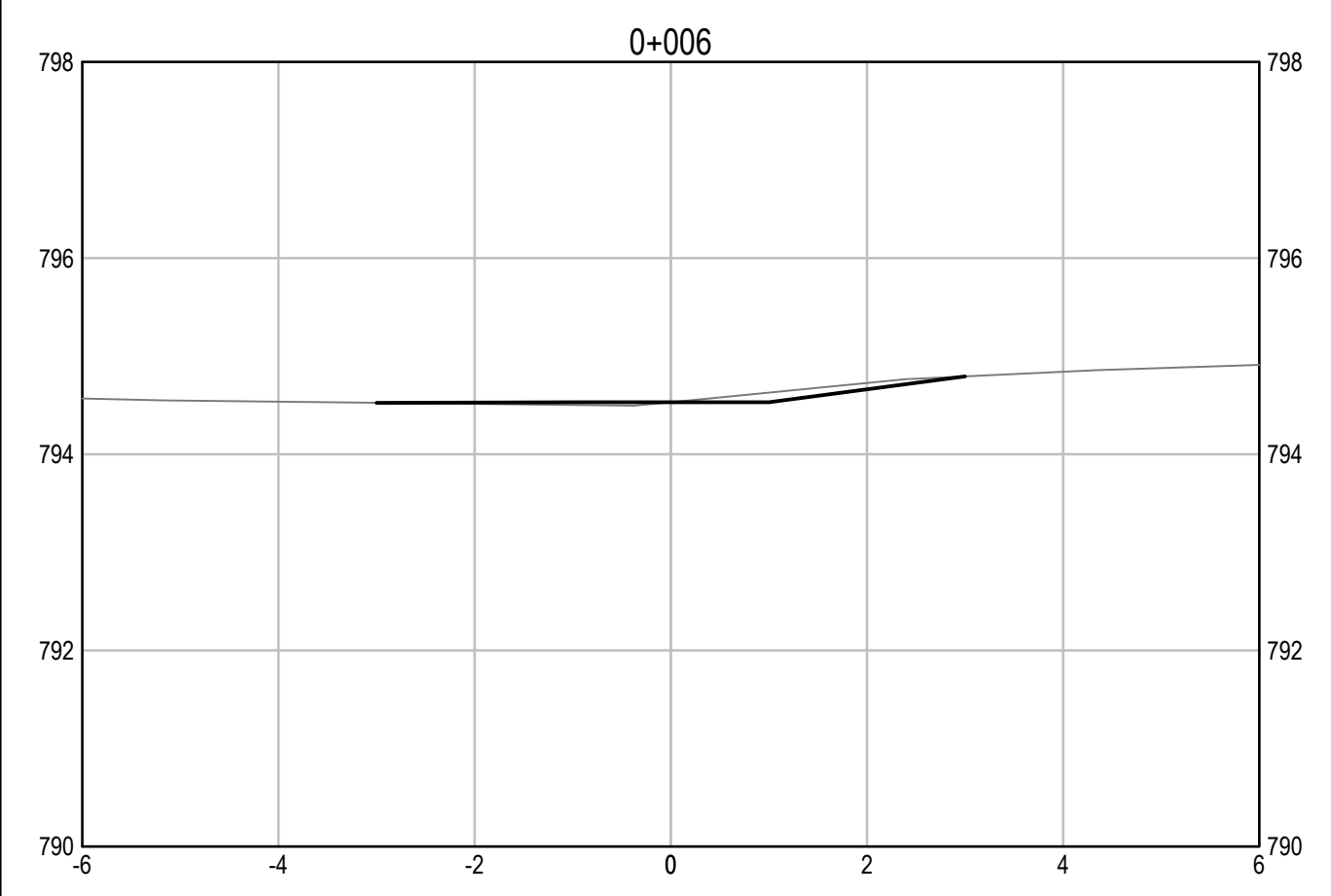
Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

Approved by/Approve par  
**T. TAKEDA**  
Designed by/Concept par  
**A. DEEPWELL**  
Drawn by/Dessine par  
**A. DEEPWELL / J. SCHITTHELM**  
PSPC Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**  
PSPC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC

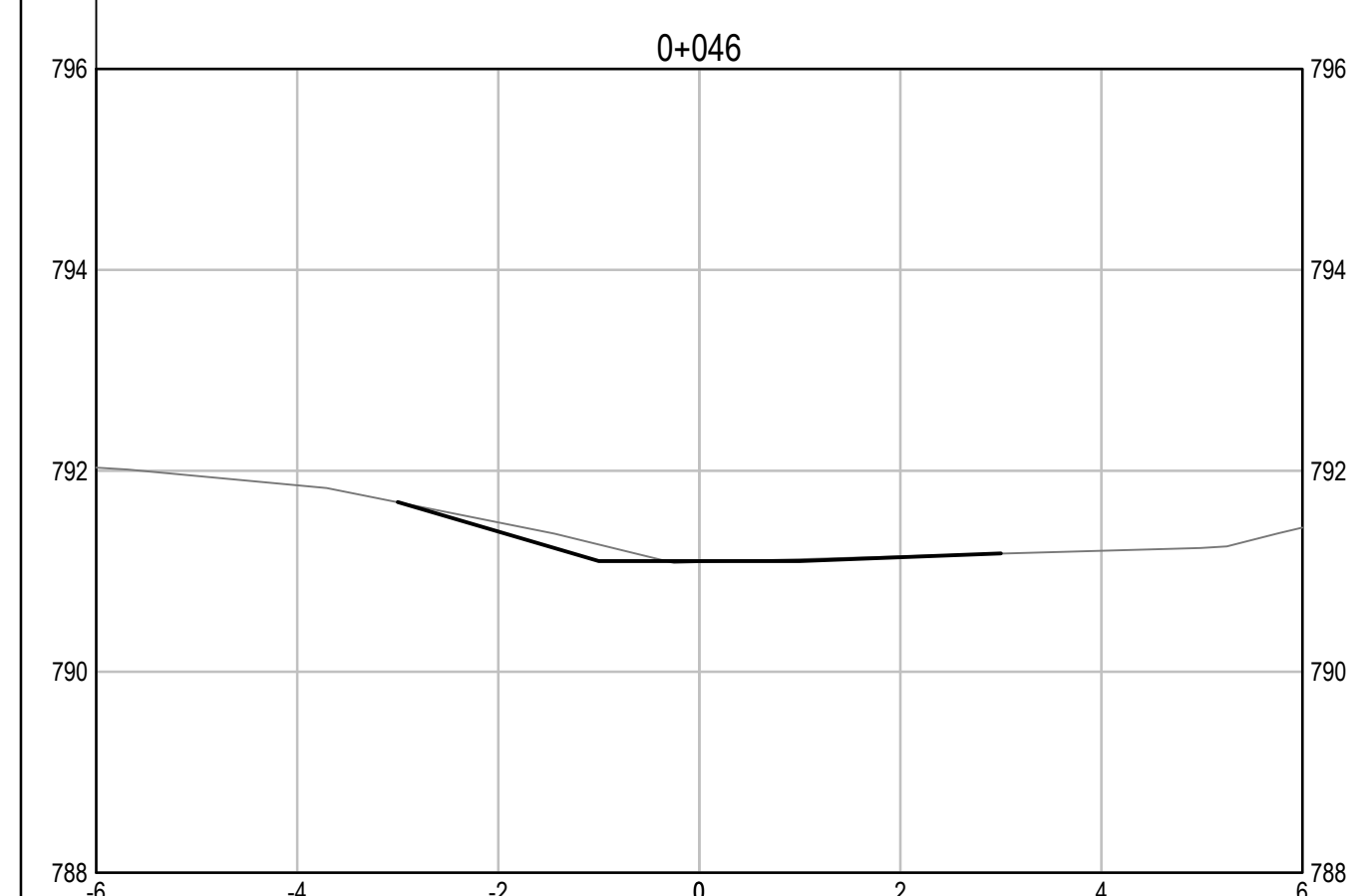
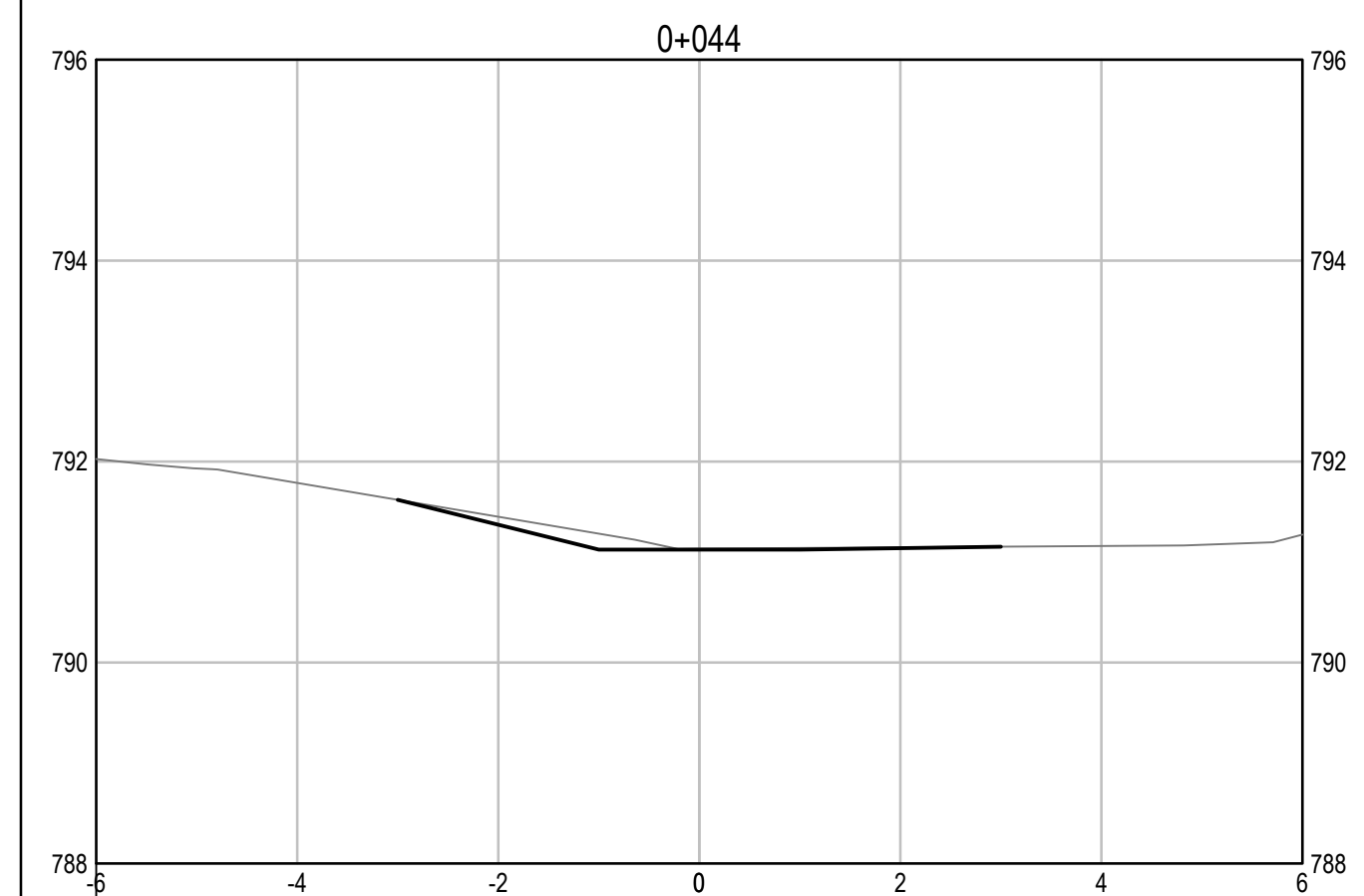
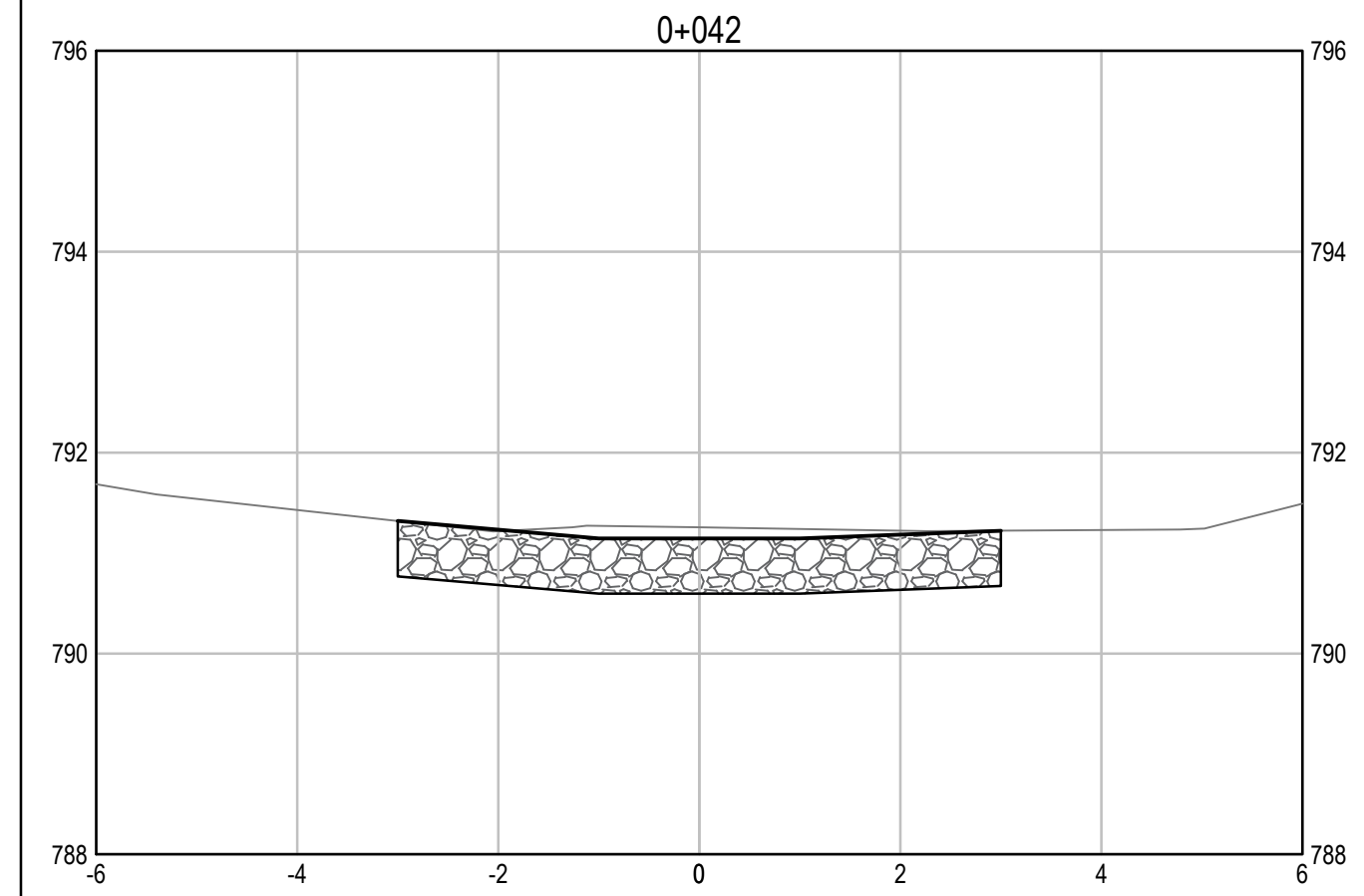
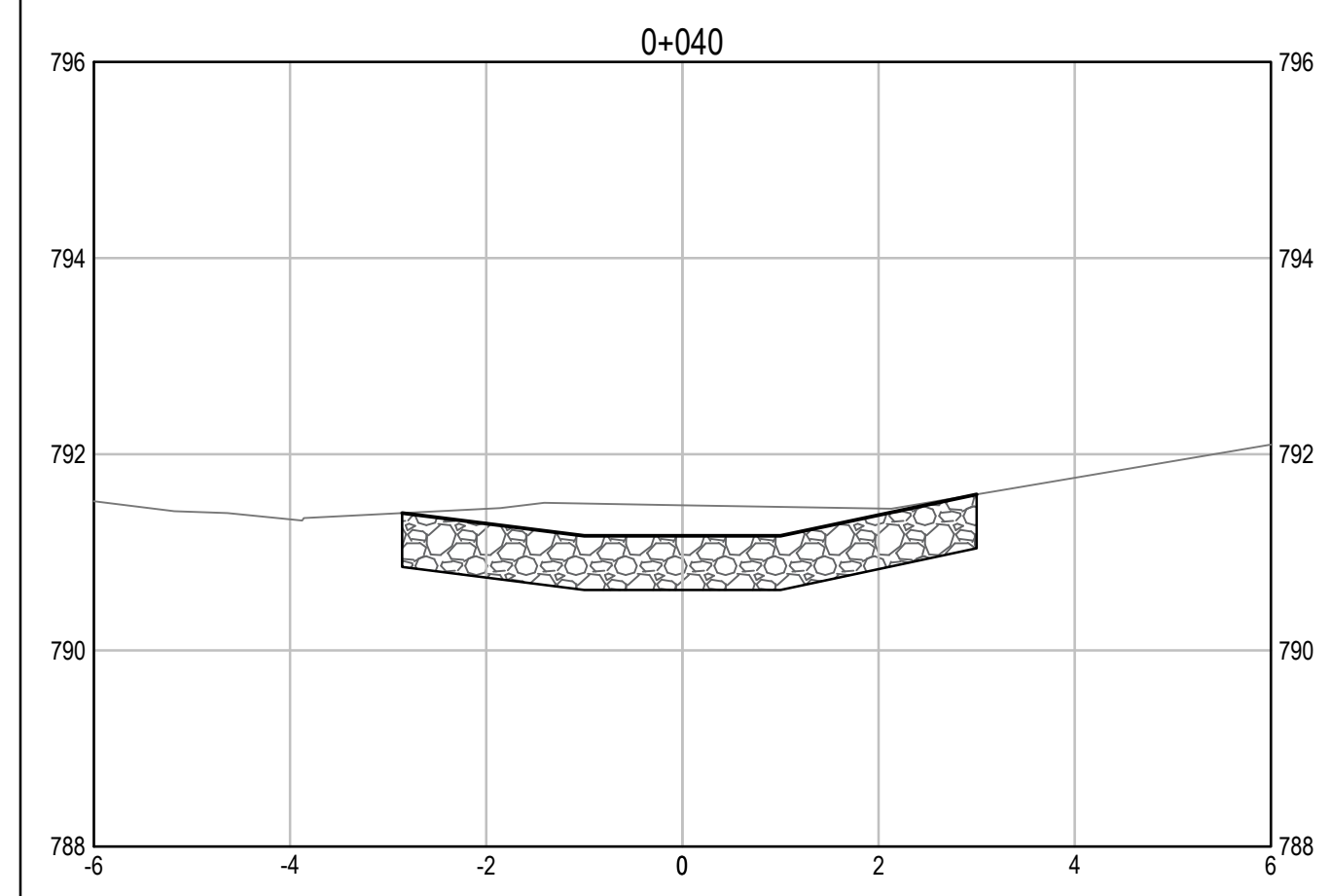
Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

Drawing title/Titre du dessin  
**KM 335.06 CULVERT PROPOSED CHANNEL CROSS SECTIONS**

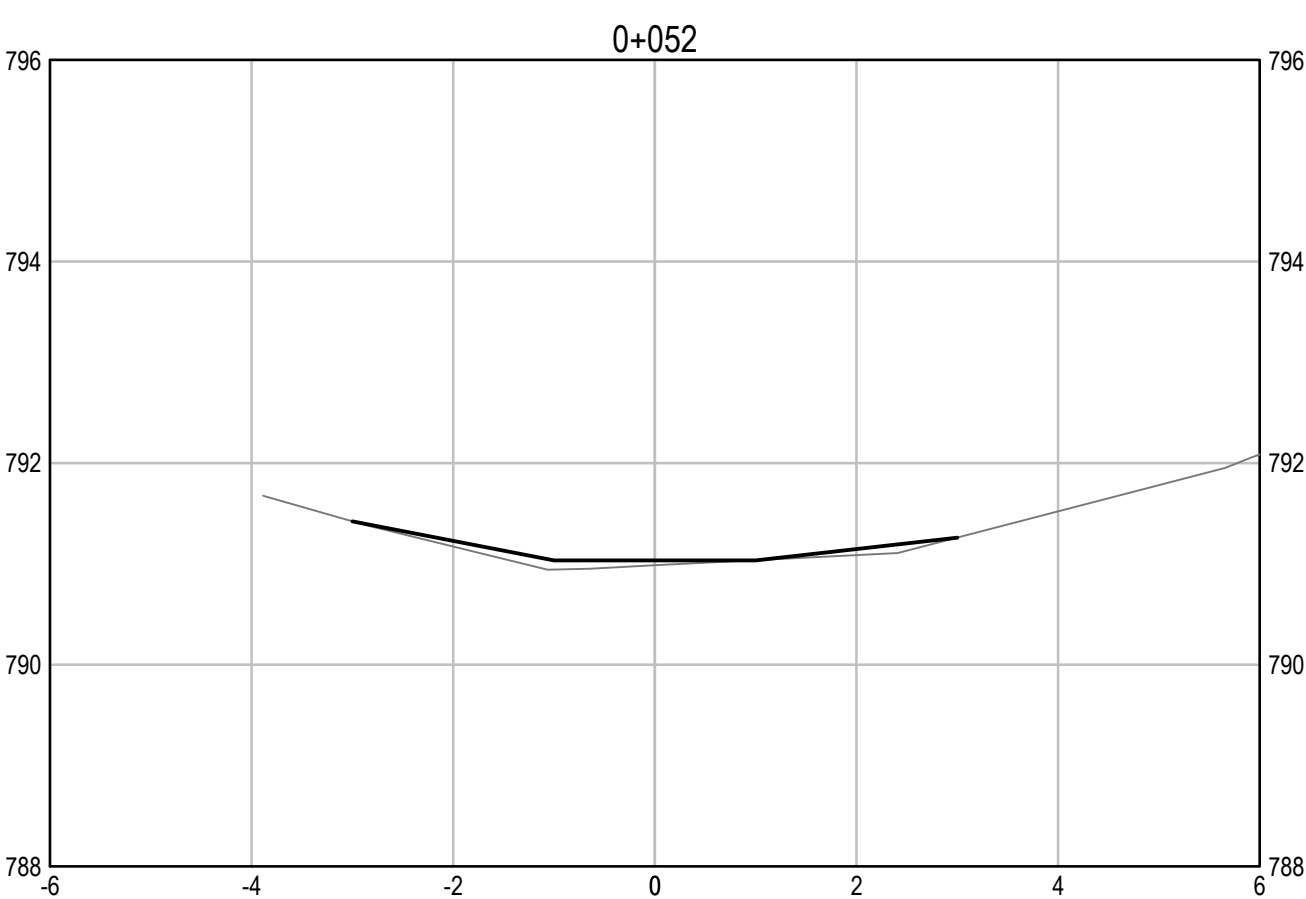
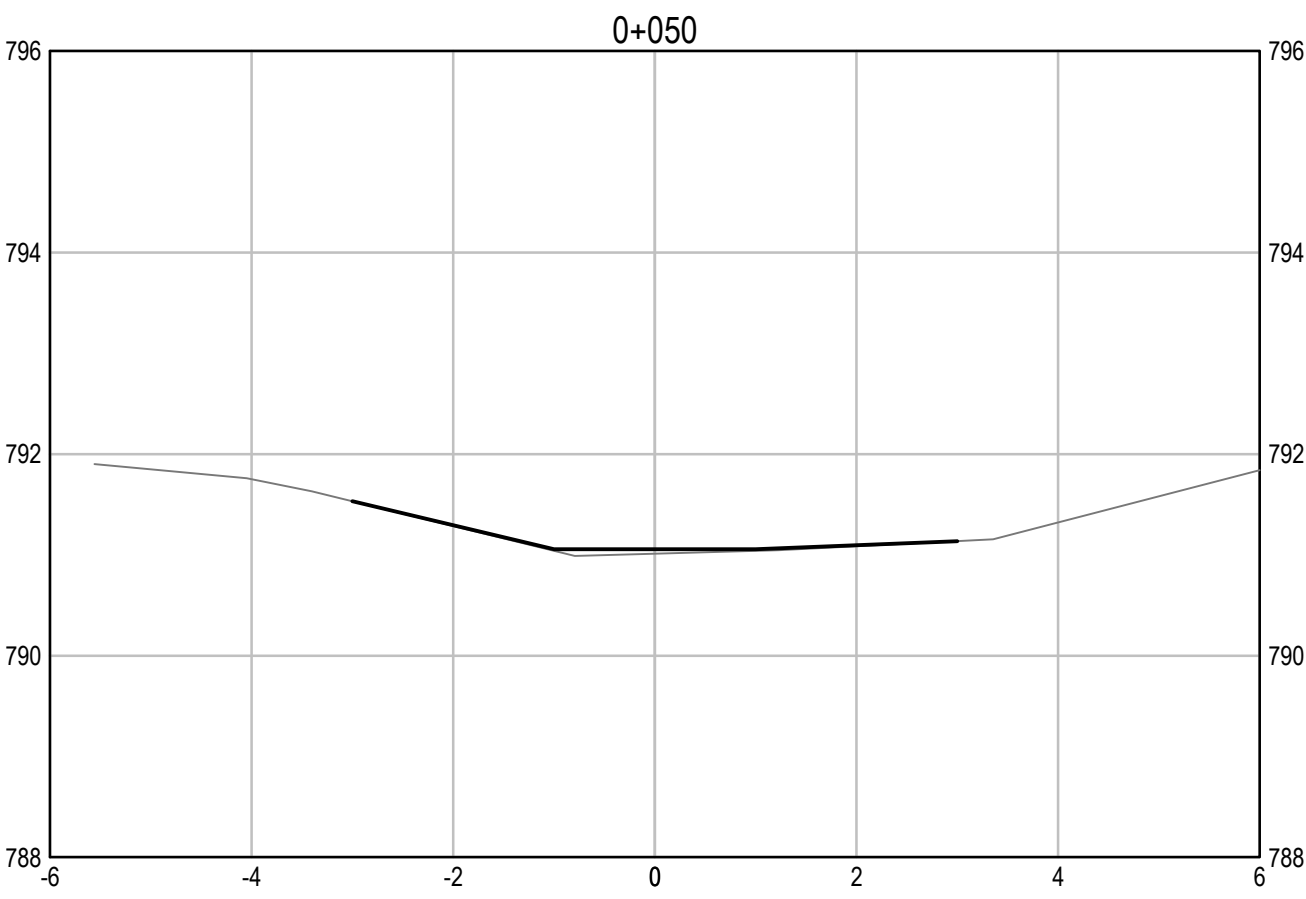
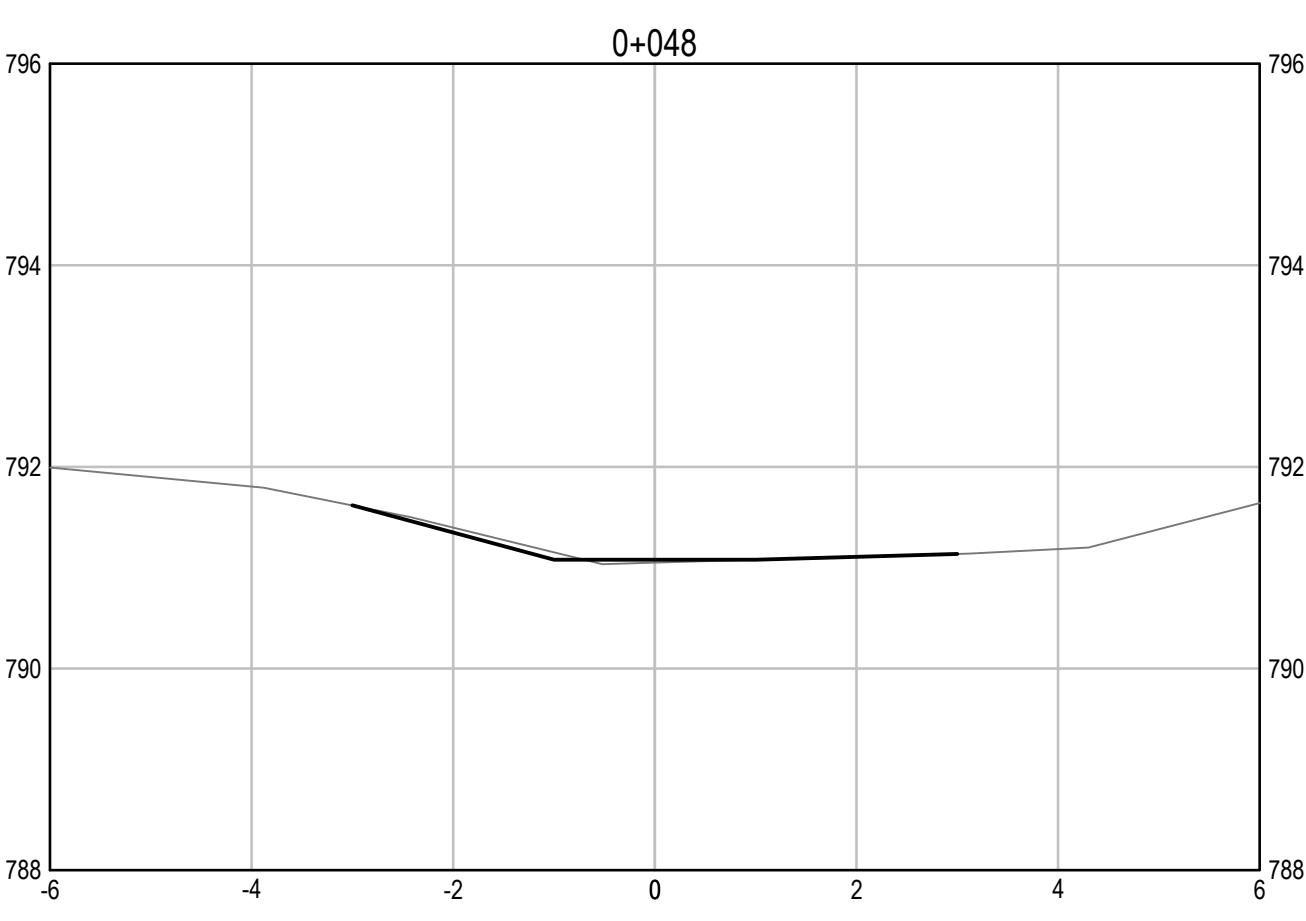
Project No./No. du projet <b>R.115075.003</b>	Sheet/Fauille <b>C2162</b>	Revision no./La Révision no. <b>0</b>
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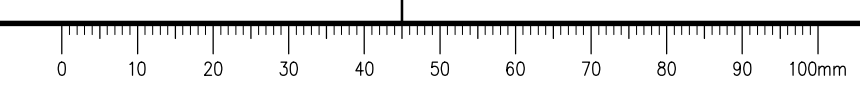
INLET CROSS SECTIONS  
SCALE: 1:75



OUTLET CROSS SECTIONS  
SCALE: 1:75

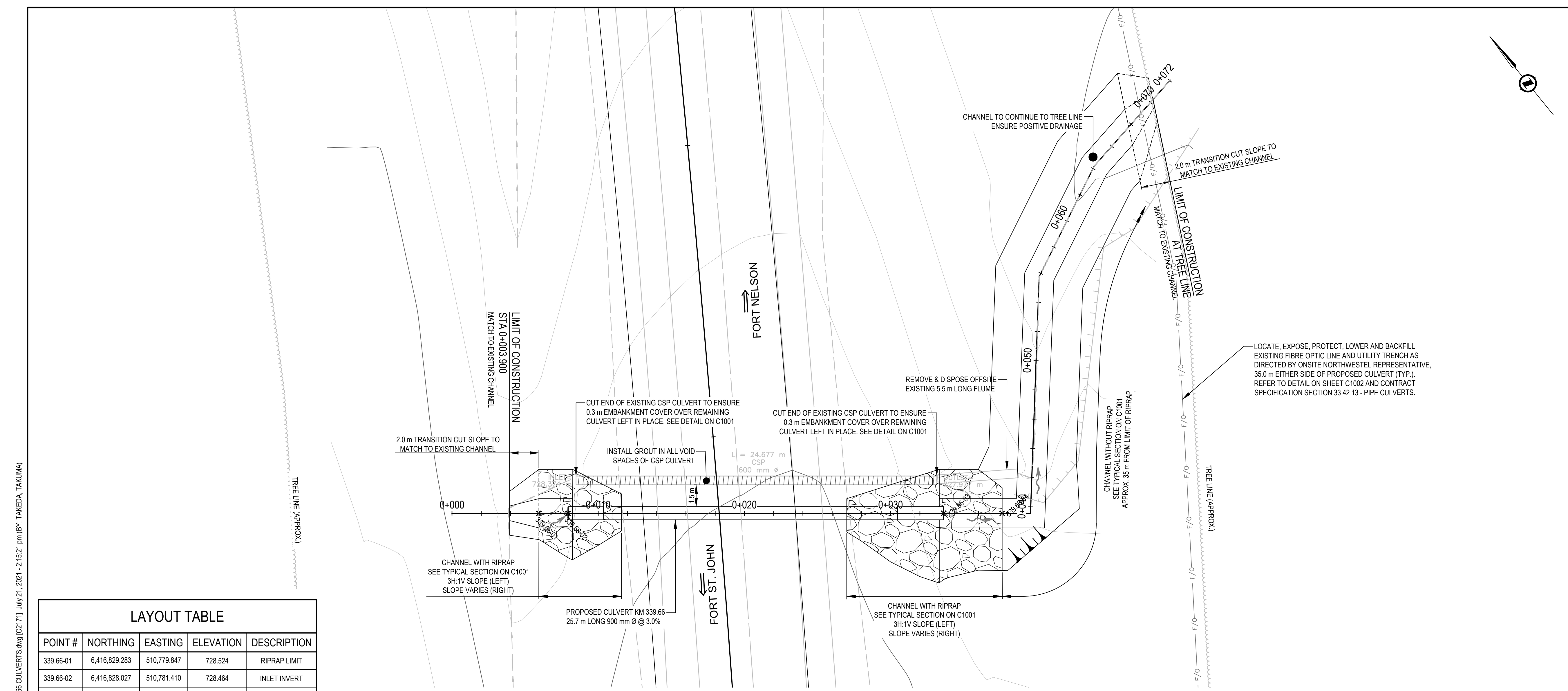


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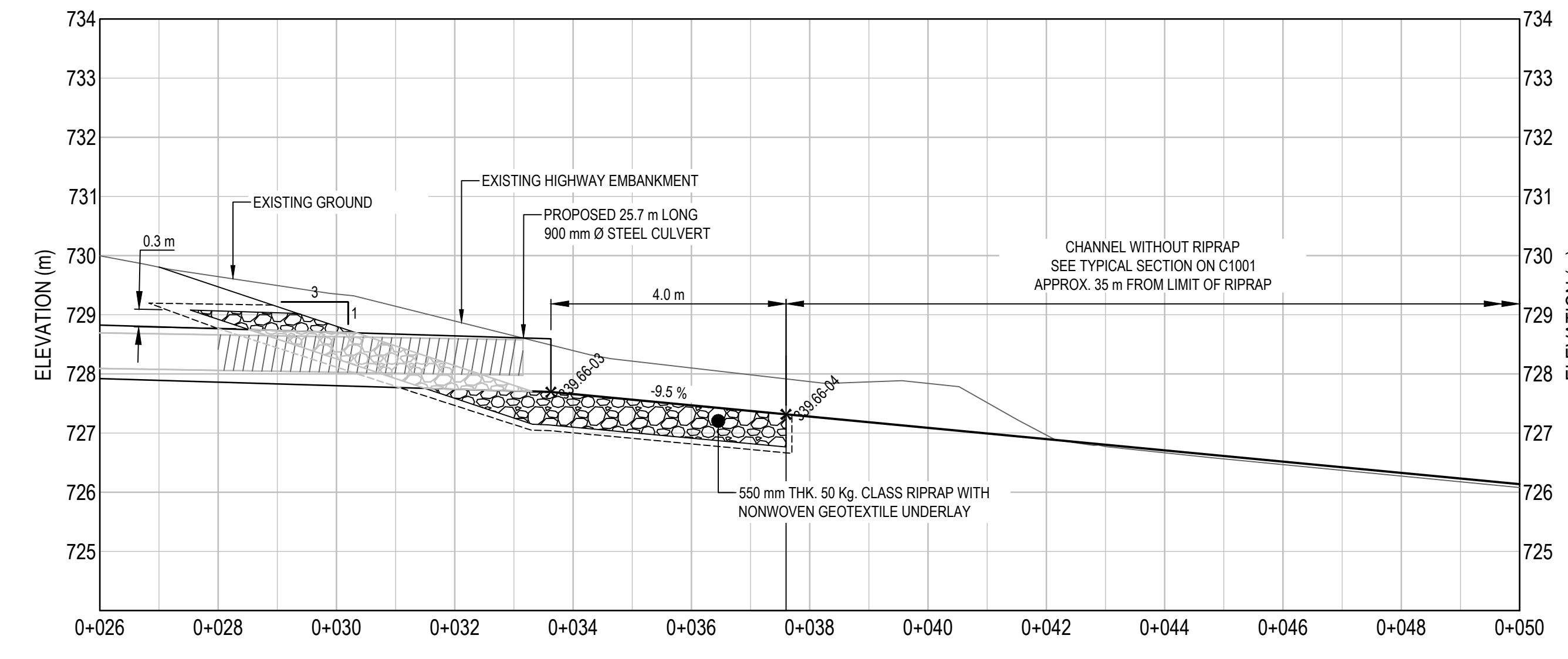
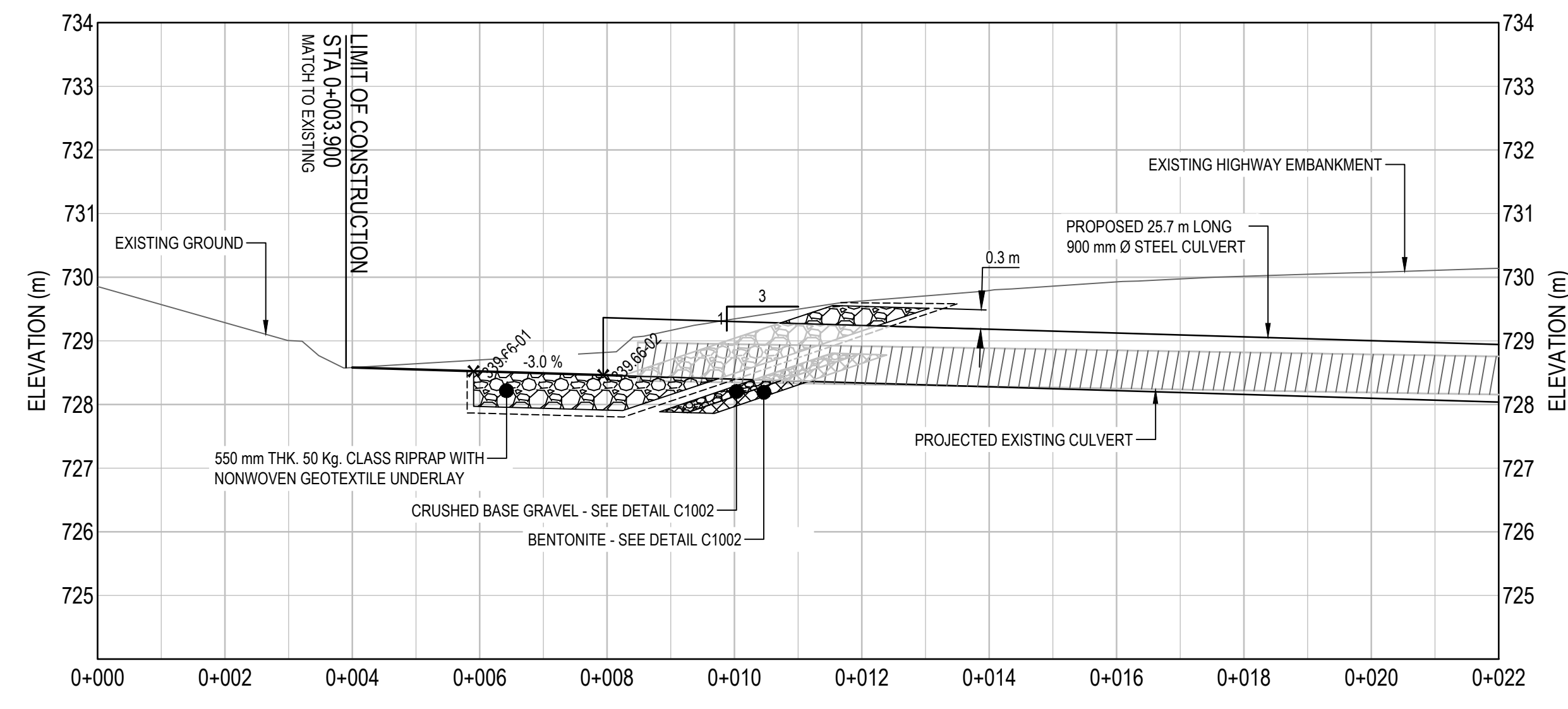
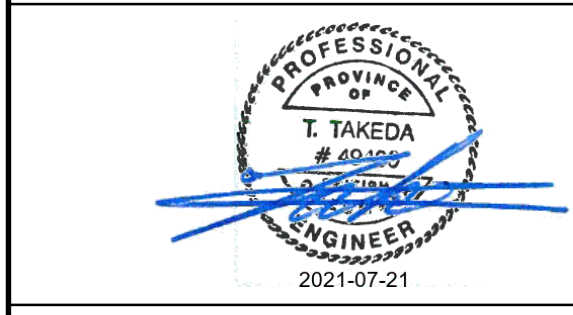
# ISSUED FOR TENDER

- GENERAL NOTES:
- DIMENSIONS, COORDINATES, ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE.
  - THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
  - ALL DISTURBED AREAS WITHOUT RIPRAP TO BE HYDROSEEDED.
  - FOR ADDITIONAL INFORMATION REFER TO CULVERT PLAN AND PROFILE DRAWINGS.



LOCATE, EXPOSE, PROTECT, LOWER AND BACKFILL EXISTING FIBRE OPTIC LINE AND UTILITY TRENCH AS DIRECTED BY ONSITE NORTHWESTEL REPRESENTATIVE, 35.0 m EITHER SIDE OF PROPOSED CULVERT (TYP.). REFER TO DETAIL ON SHEET C1002 AND CONTRACT SPECIFICATION SECTION 33.42.13 - PIPE CULVERTS.

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
339.66-01	6,416,829.283	510,779.847	728.524	RIPRAP LIMIT
339.66-02	6,416,828.027	510,781.410	728.464	INLET INVERT
339.66-03	6,416,811.932	510,801.431	727.693	OUTLET INVERT
339.66-04	6,416,809.428	510,804.547	727.313	RIPRAP LIMIT



0	ISSUED FOR TENDER	21/07/21
Revision/	Description/Description	Date/Date

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**



Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

Approved by/Approve par  
**T. TAKEDA**

Designed by/Concept par  
**A. DEEPWELL**

Drawn by/Dessiné par  
**A. DEEPWELL / J. SCHITTHELM**

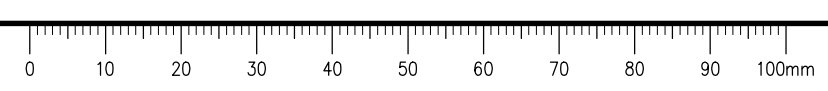
PSPC Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

Drawing title/Titre du dessin  
**KM 339.66 CULVERT PLAN / PROFILE**

Project No./No. du projet <b>R.115075.003</b>	Sheet/Fauille <b>C2171</b>	Revision no./La Révision no. <b>0</b>
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C:\Vancouver\Transportation\TRN\VHWY03\64 Alaska Highway Paving Km 325 - 355 & Km 520 - 555\CAD\Sheets Km 325 Culverts\C2171 July 21, 2021 - 2:15:21 pm (BY: TAKEDA, TAKUMA)





# ISSUED FOR TENDER

- GENERAL NOTES:
1. DIMENSIONS, COORDINATES, ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE.
  2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
  3. ALL DISTURBED AREAS WITHOUT RIPRAP TO BE HYDROSEEDED.
  4. FOR ADDITIONAL INFORMATION REFER TO CULVERT PLAN AND PROFILE DRAWINGS.



Scale: 1:75 (metres)

Revision/	Description/	Date/
Revised/	Description/	Date/
0	ISSUED FOR TENDER	21/07/21

**PUBLIC SERVICES AND PROCUREMENT CANADA**



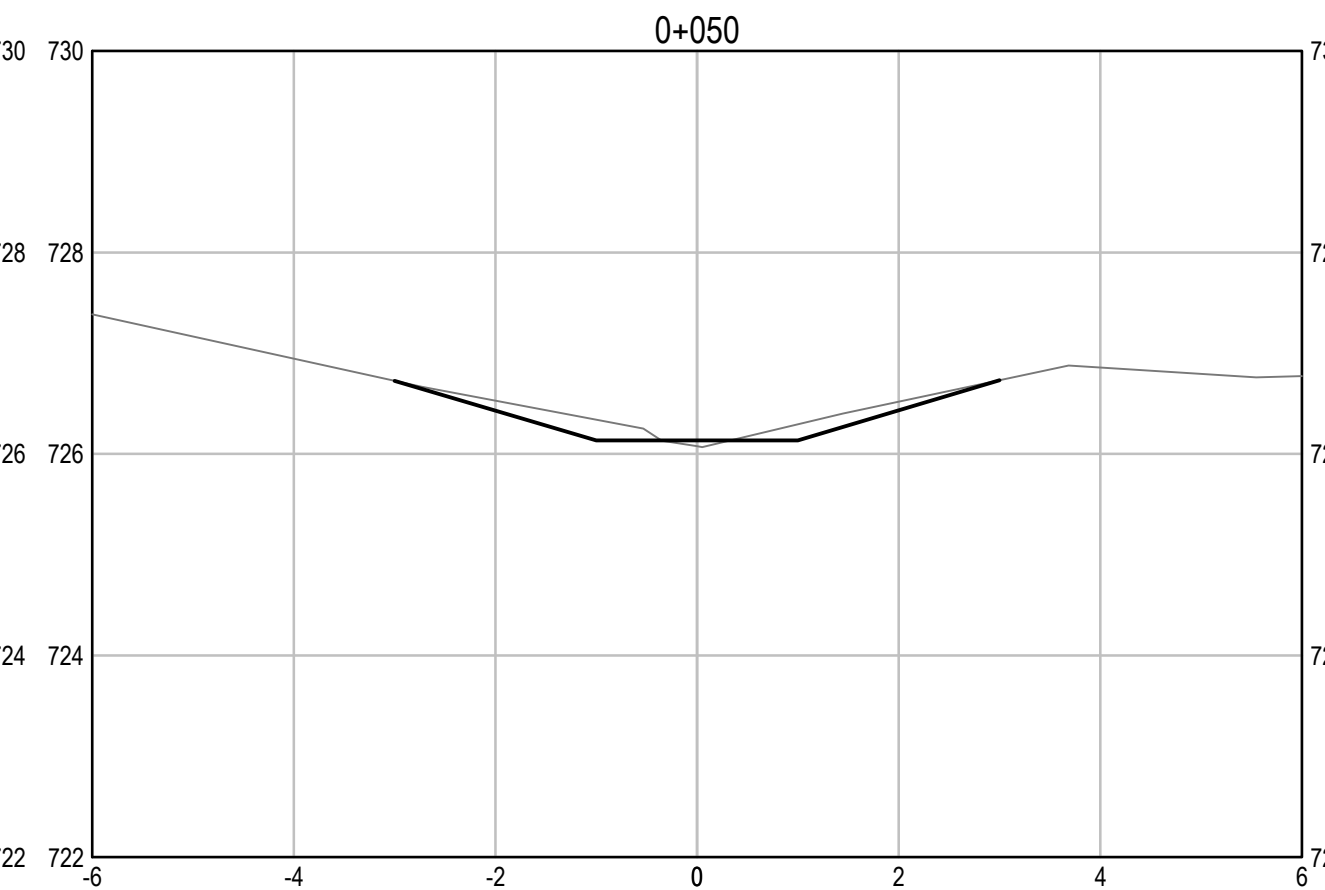
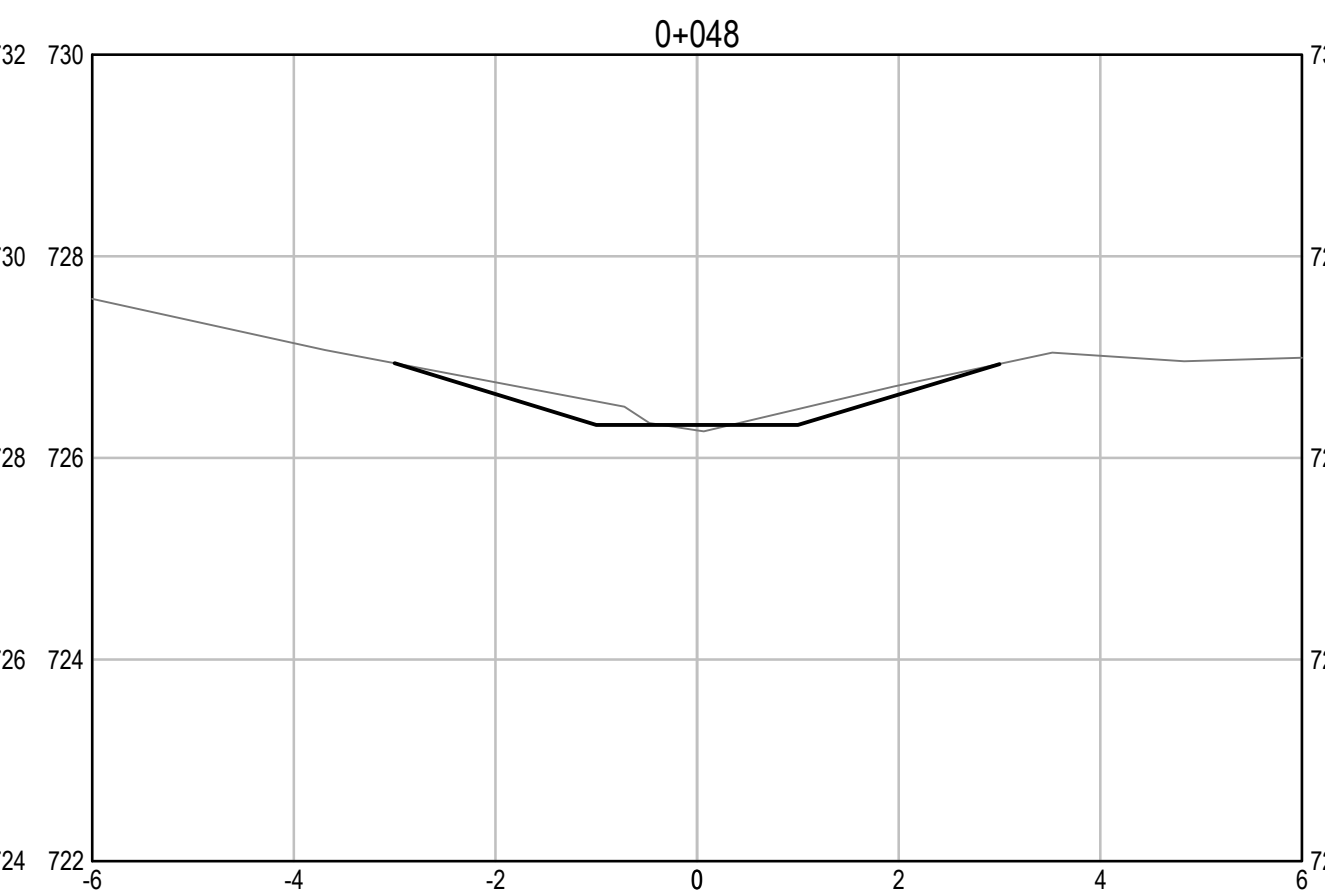
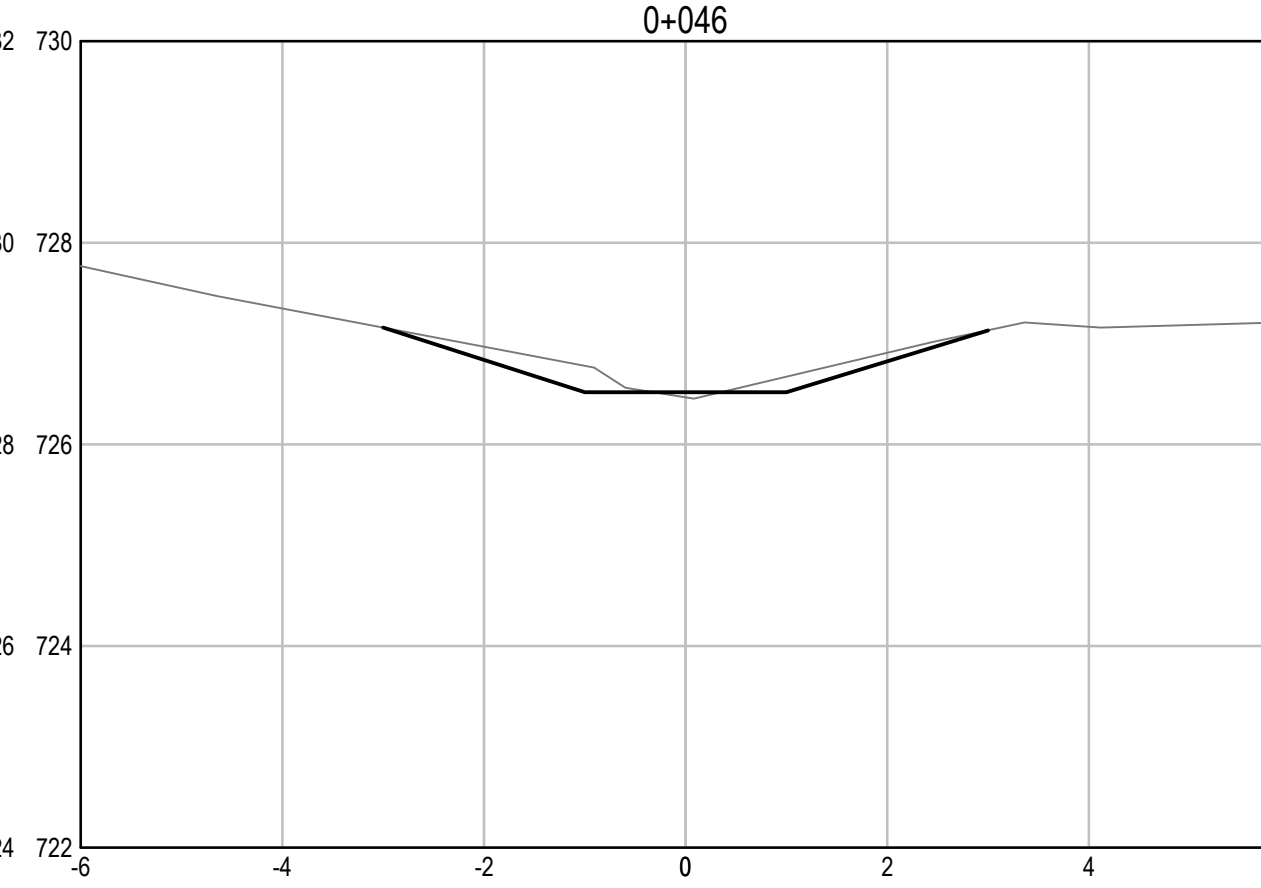
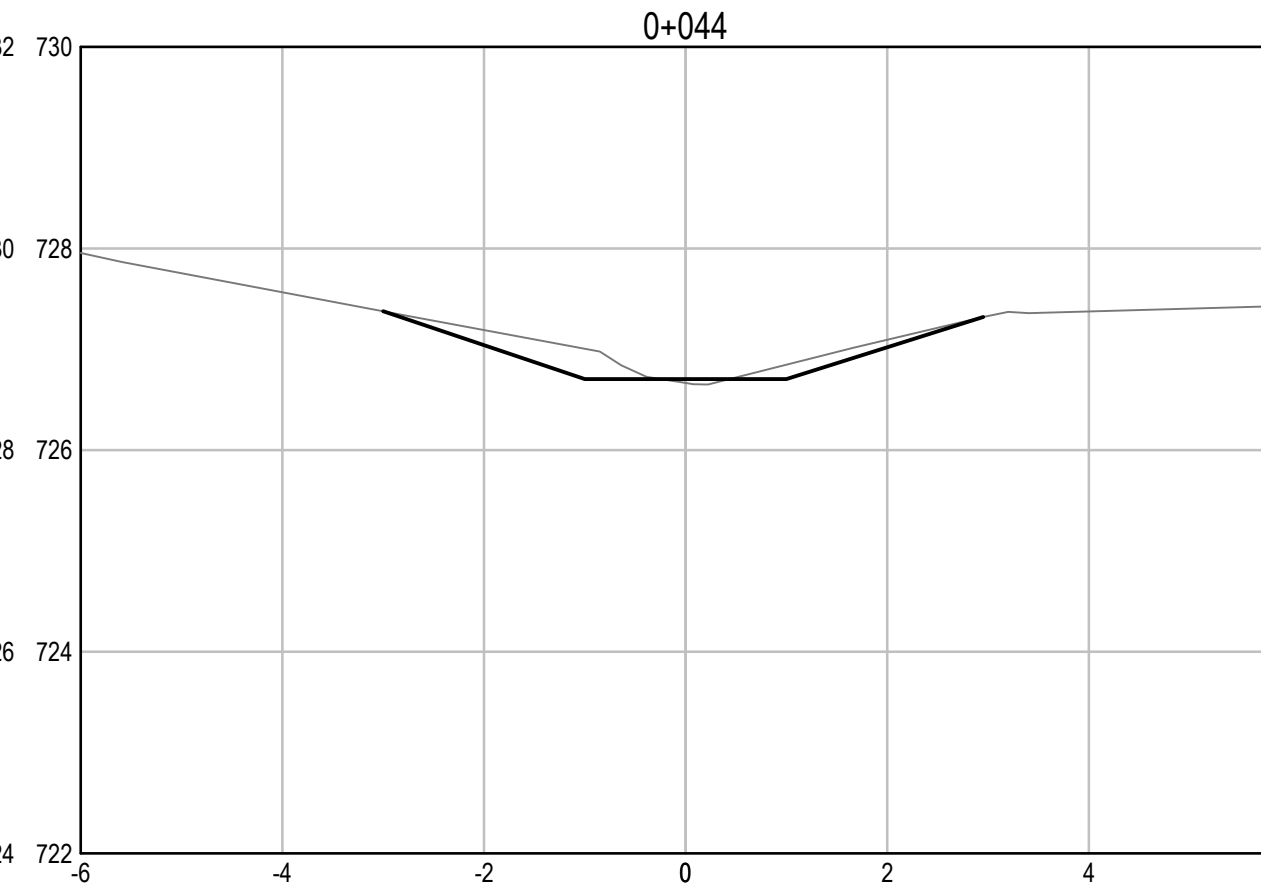
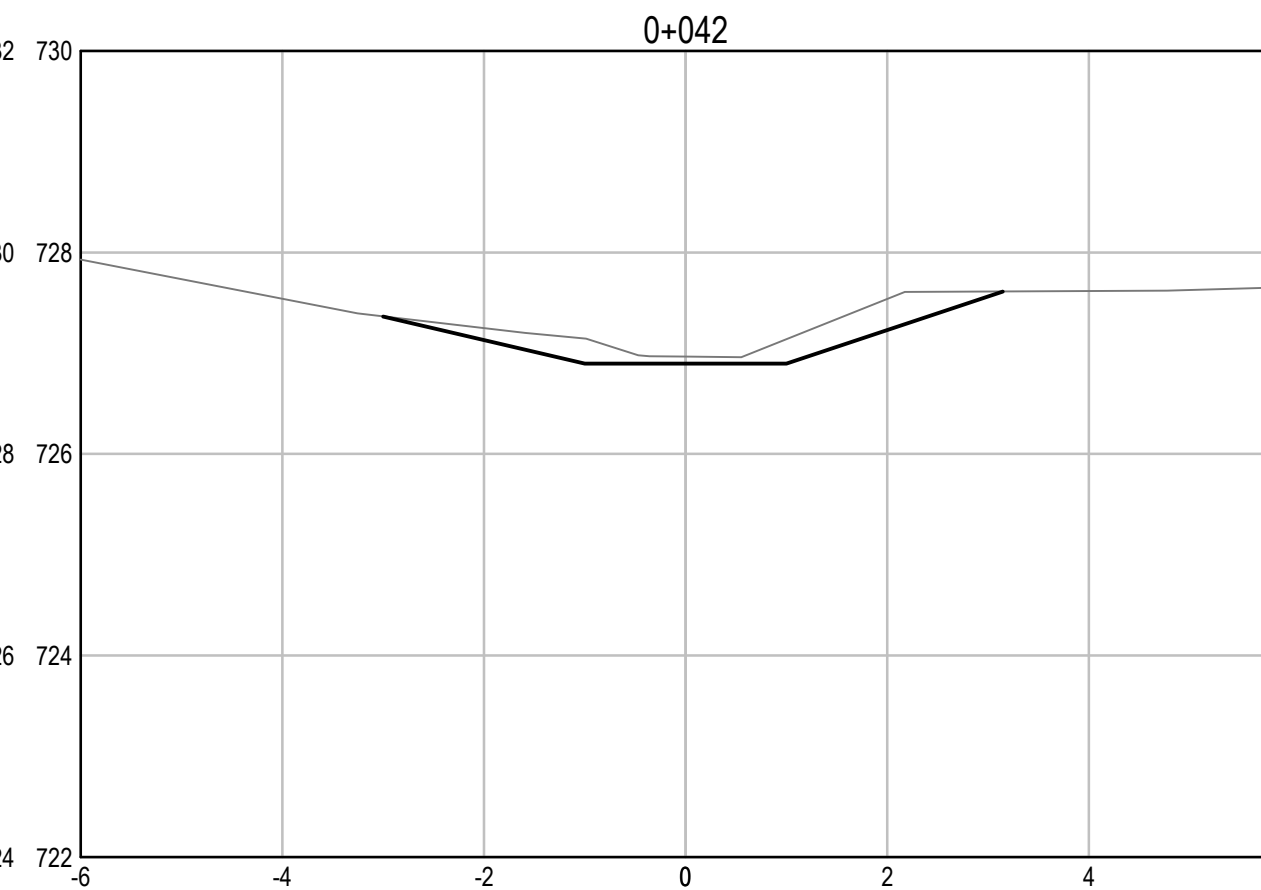
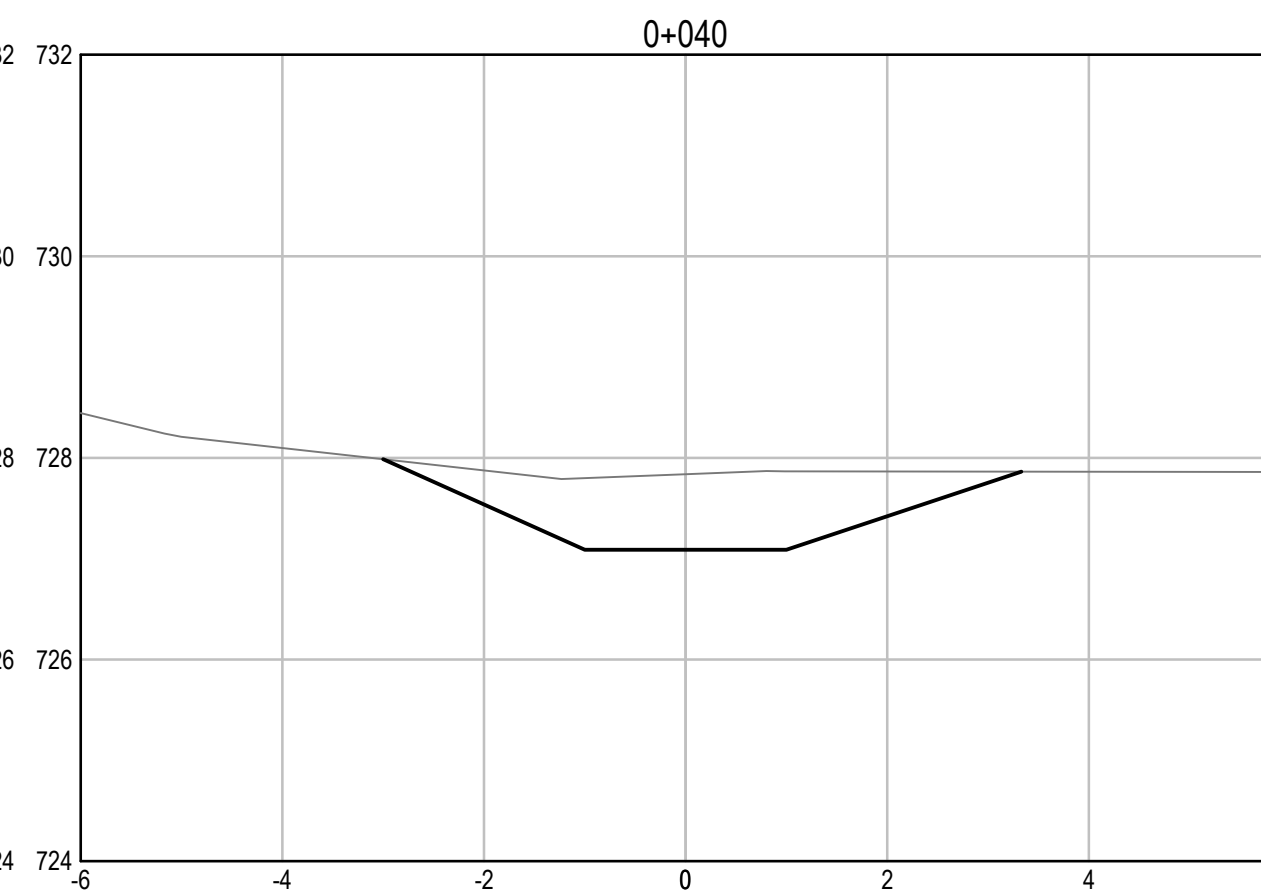
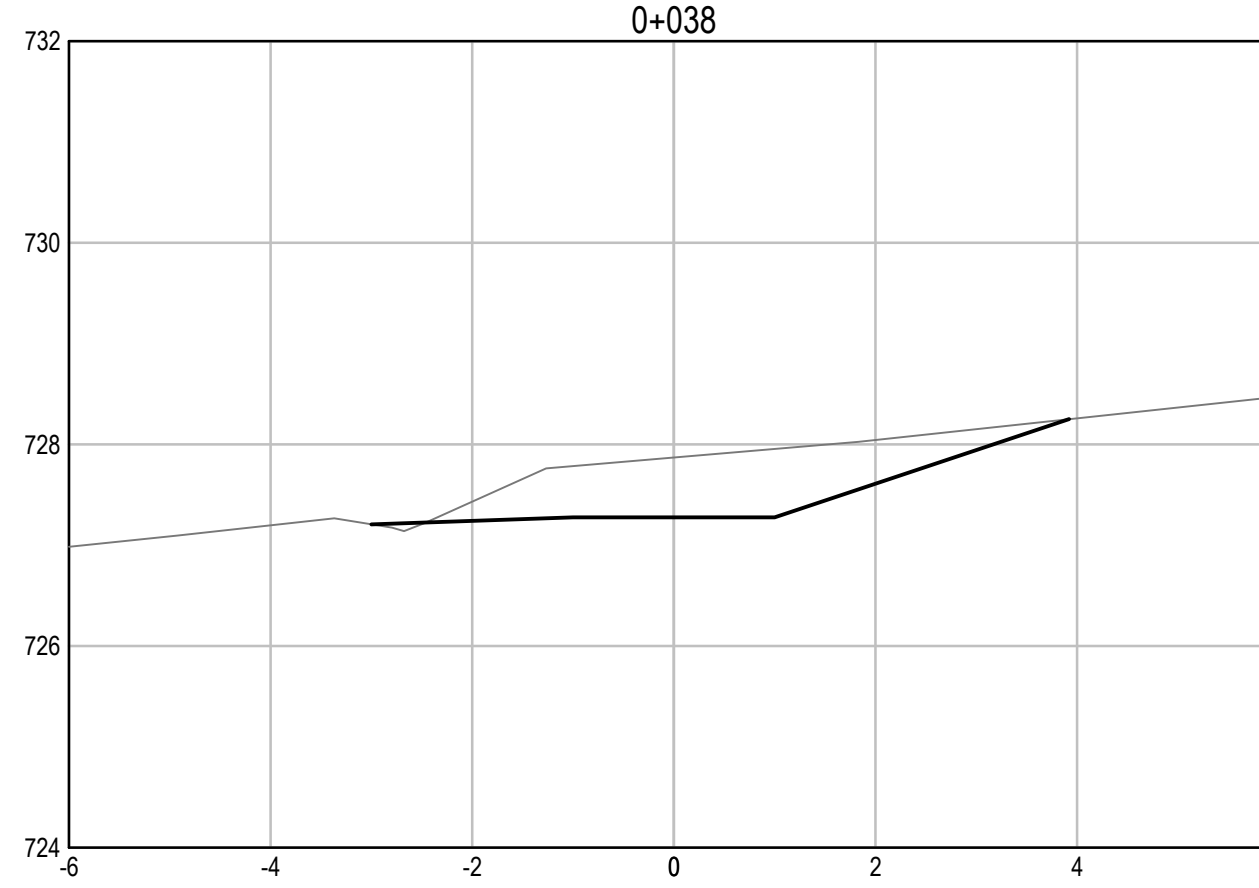
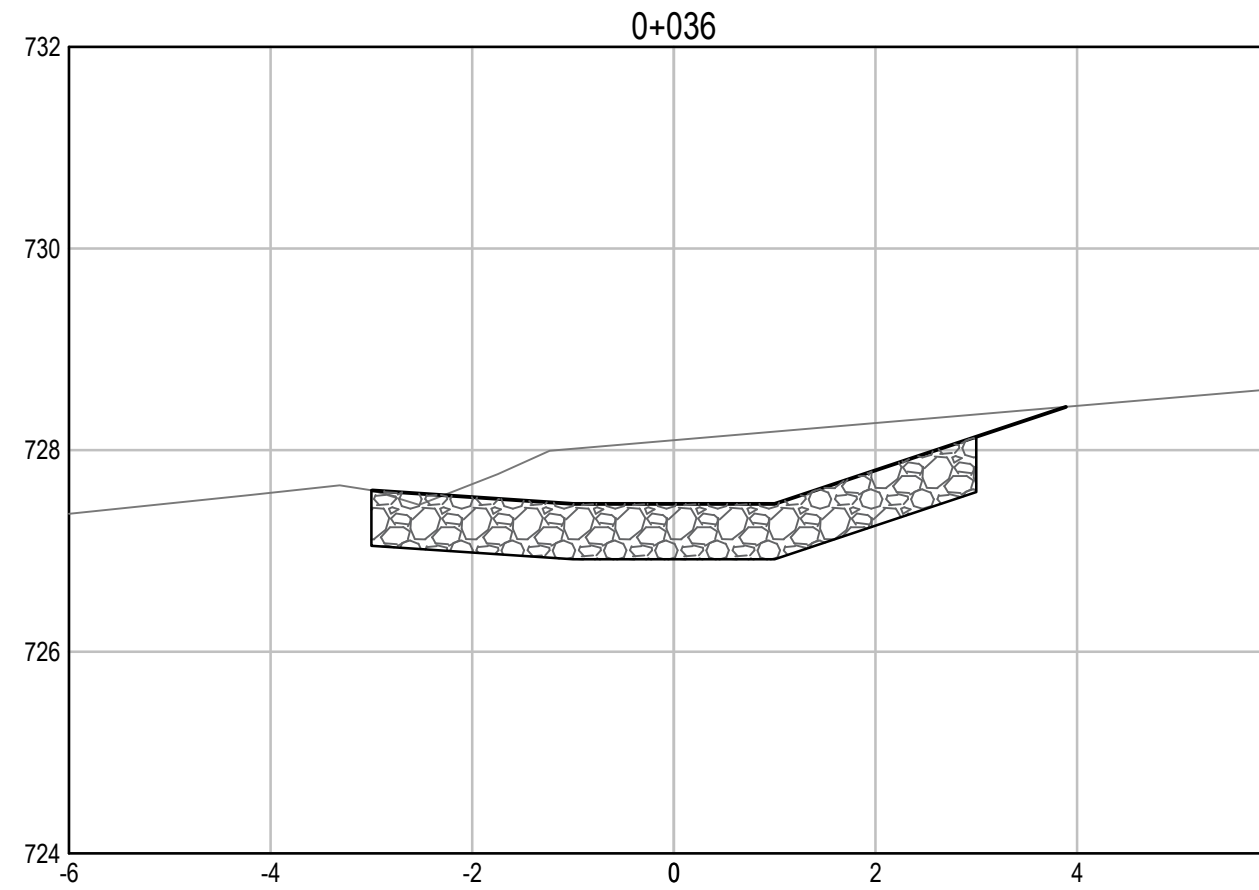
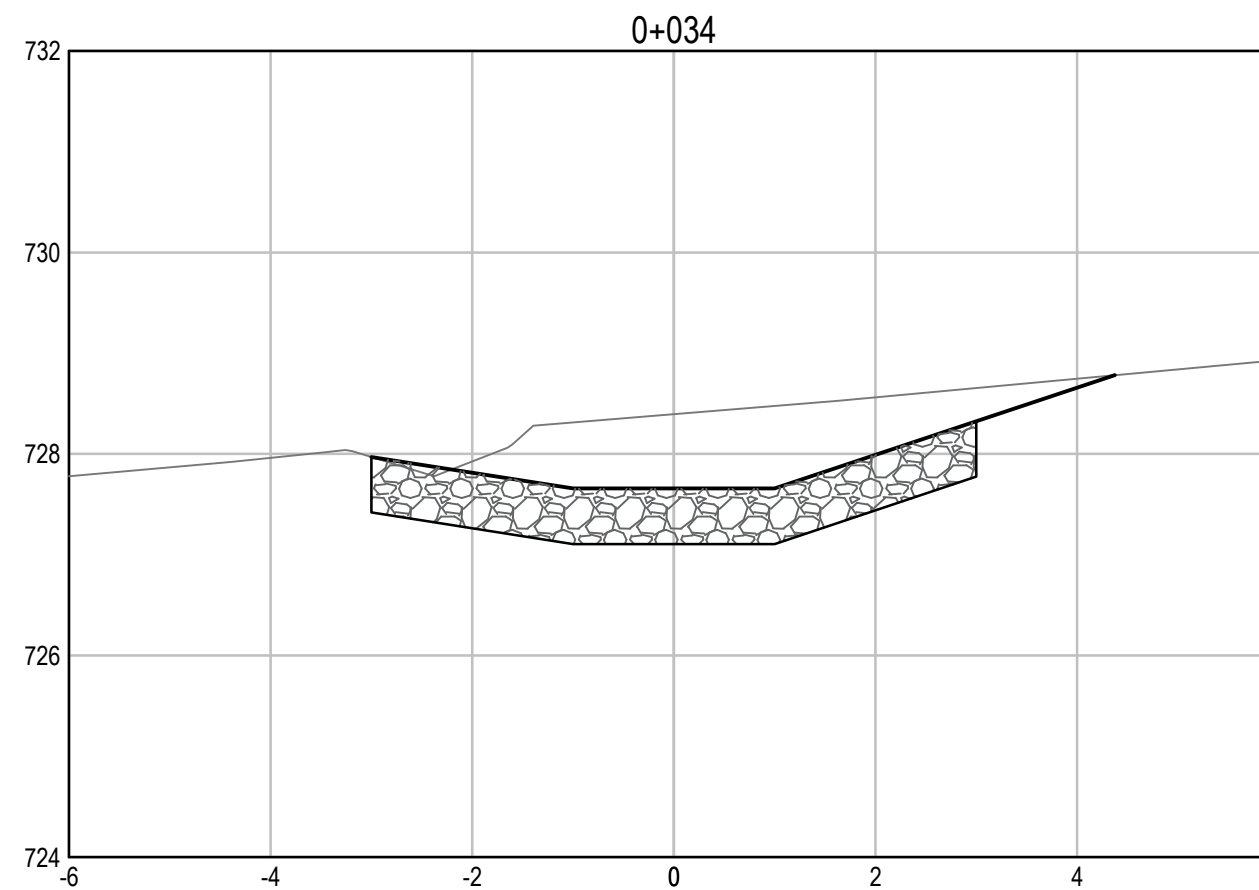
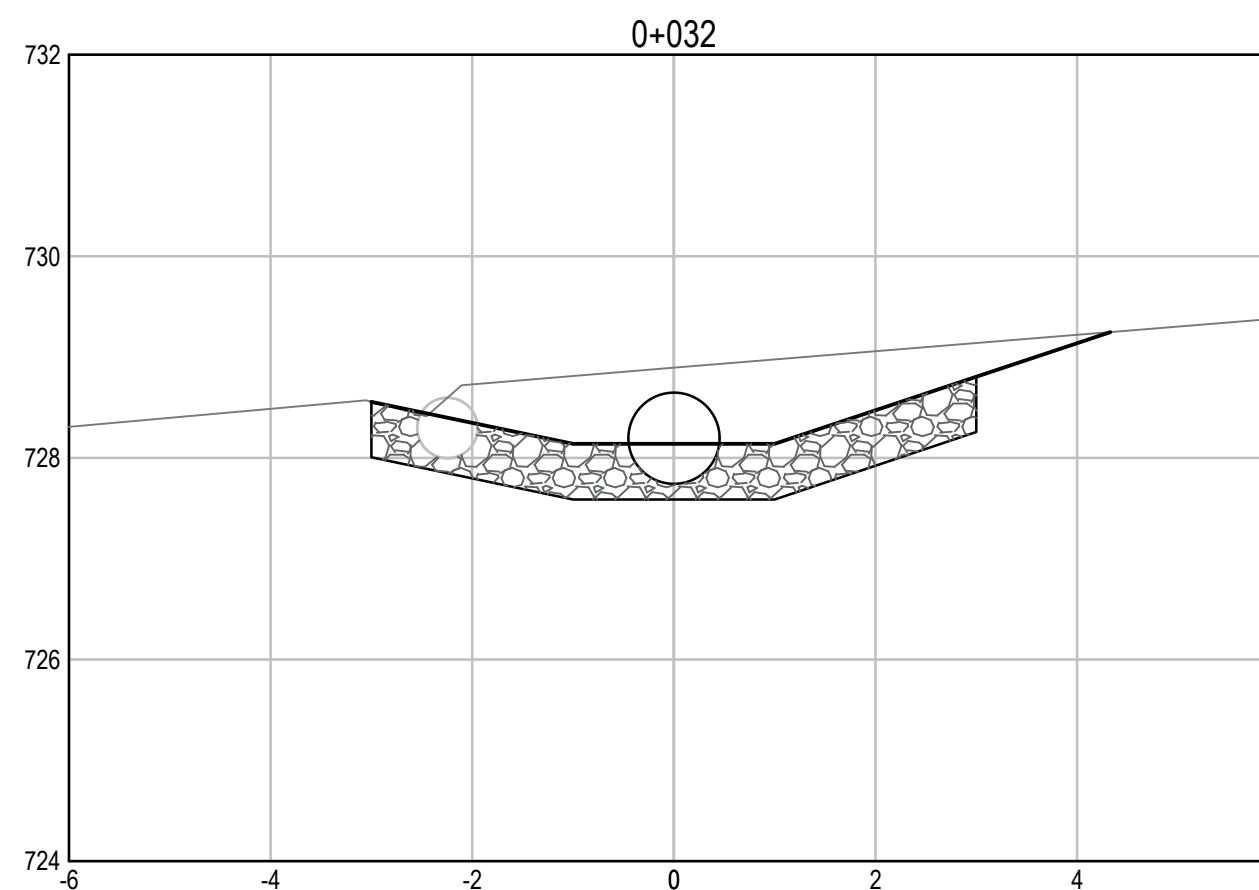
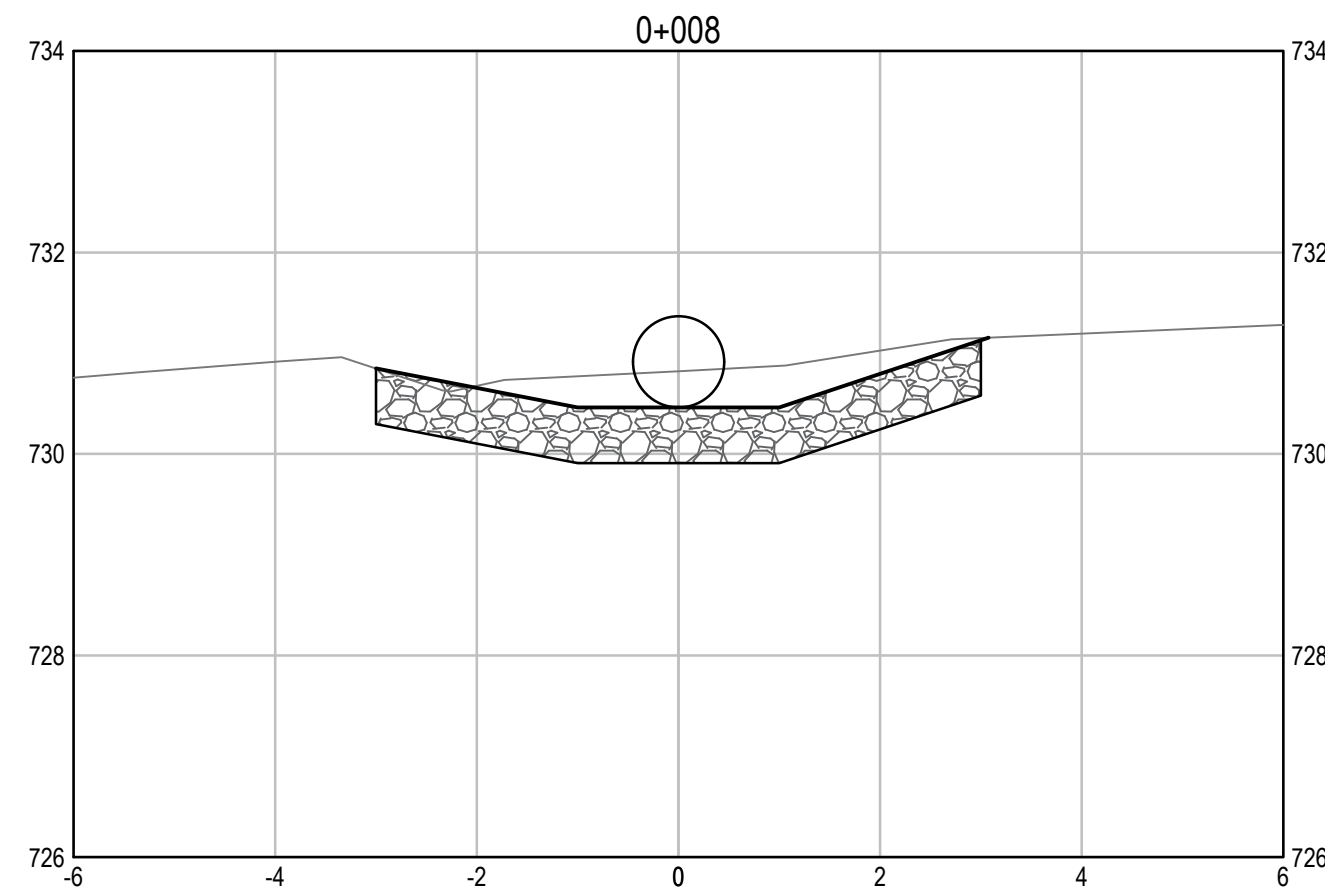
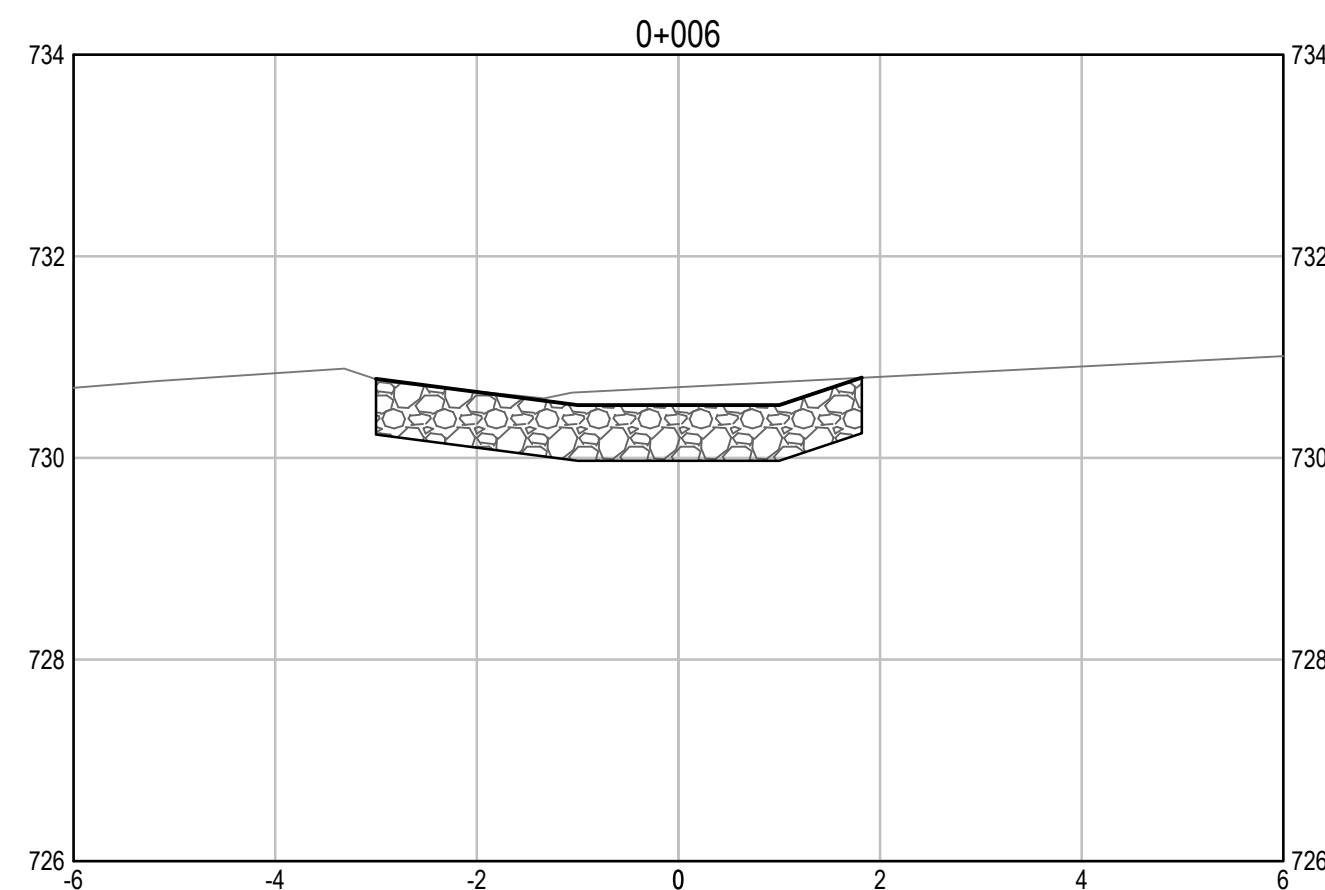
Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

Approved by/Approve par  
**T. TAKEDA**  
Designed by/Concept par  
**A. DEEPWELL**  
Drawn by/Dessine par  
**A. DEEPWELL / J. SCHITTHELM**  
PSPC Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**  
PSPC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

Drawing title/Titre du dessin  
**KM 339.66 CULVERT PROPOSED CHANNEL CROSS SECTIONS**

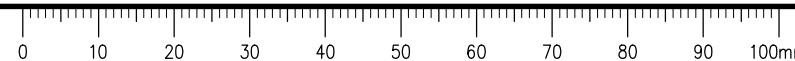
Project No./No. du projet <b>R.115075.003</b>	Sheet/Fauille <b>C2172</b>	Revision no./La Révision no. <b>0</b>
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**INLET CROSS SECTIONS**  
SCALE: 1:75

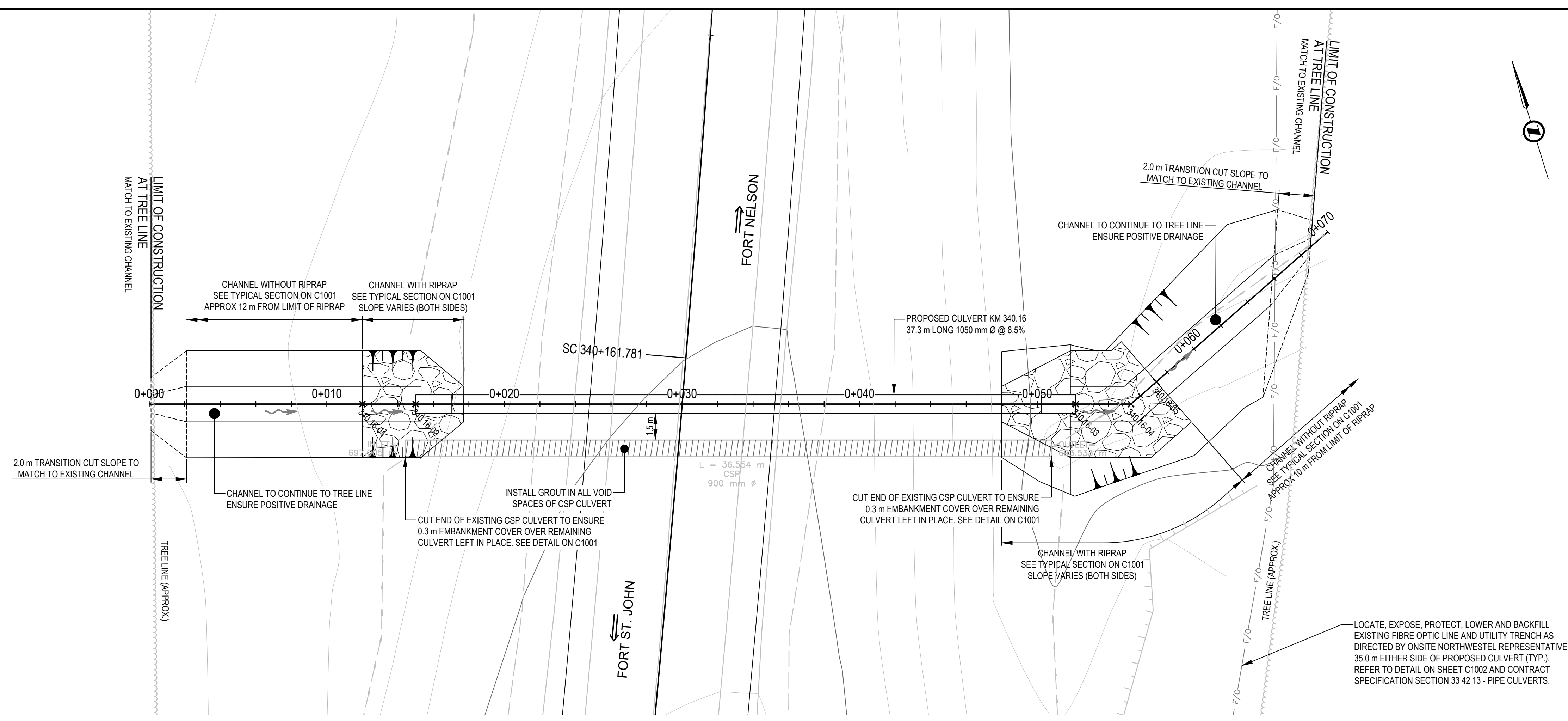
**OUTLET CROSS SECTIONS**  
SCALE: 1:75

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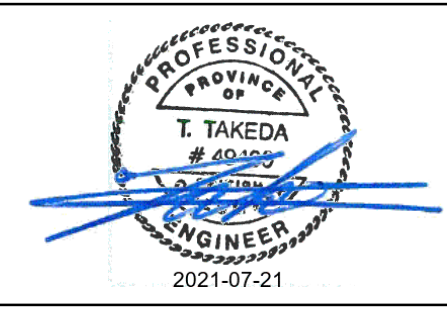


**ISSUED FOR TENDER**

- GENERAL NOTES:  
 1. DIMENSIONS, COORDINATES, ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE.  
 2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.  
 3. ALL DISTURBED AREAS WITHOUT RIPRAP TO BE HYDROSEEDDED.  
 4. FOR ADDITIONAL INFORMATION REFER TO CULVERT PLAN AND PROFILE DRAWINGS.



LOCATE, EXPOSE, PROTECT, LOWER AND BACKFILL EXISTING FIBRE OPTIC LINE AND UTILITY TRENCH AS DIRECTED BY ONSITE NORTHWESTEL REPRESENTATIVE, 35.0 m EITHER SIDE OF PROPOSED CULVERT (TYP.). REFER TO DETAIL ON SHEET C1002 AND CONTRACT SPECIFICATION SECTION 33 42 13 - PIPE CULVERTS.



0	ISSUED FOR TENDER	21/07/21
Revision/	Description/Description	Date/Date
Client/client	PUBLIC SERVICES AND PROCUREMENT CANADA	

**PUBLIC SERVICES AND PROCUREMENT CANADA**



Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

Approved by/Approve par  
**T. TAKEDA**  
 Designed by/Concept par  
**A. DEEPWELL**  
 Drawn by/Dessiné par  
**A. DEEPWELL / J. SCHITTHELM**  
 P.S.P.C. Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**  
 P.S.P.C. Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC

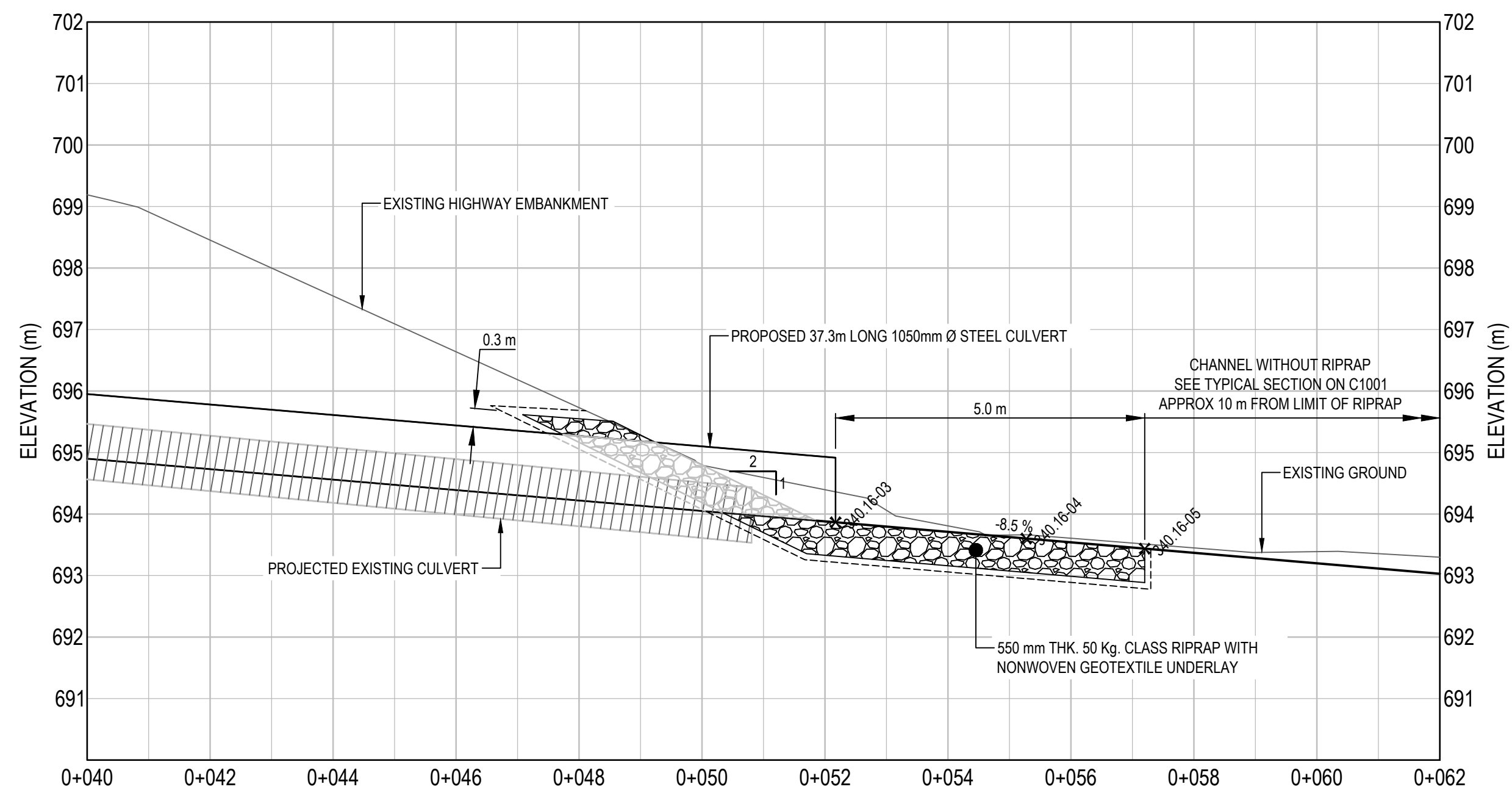
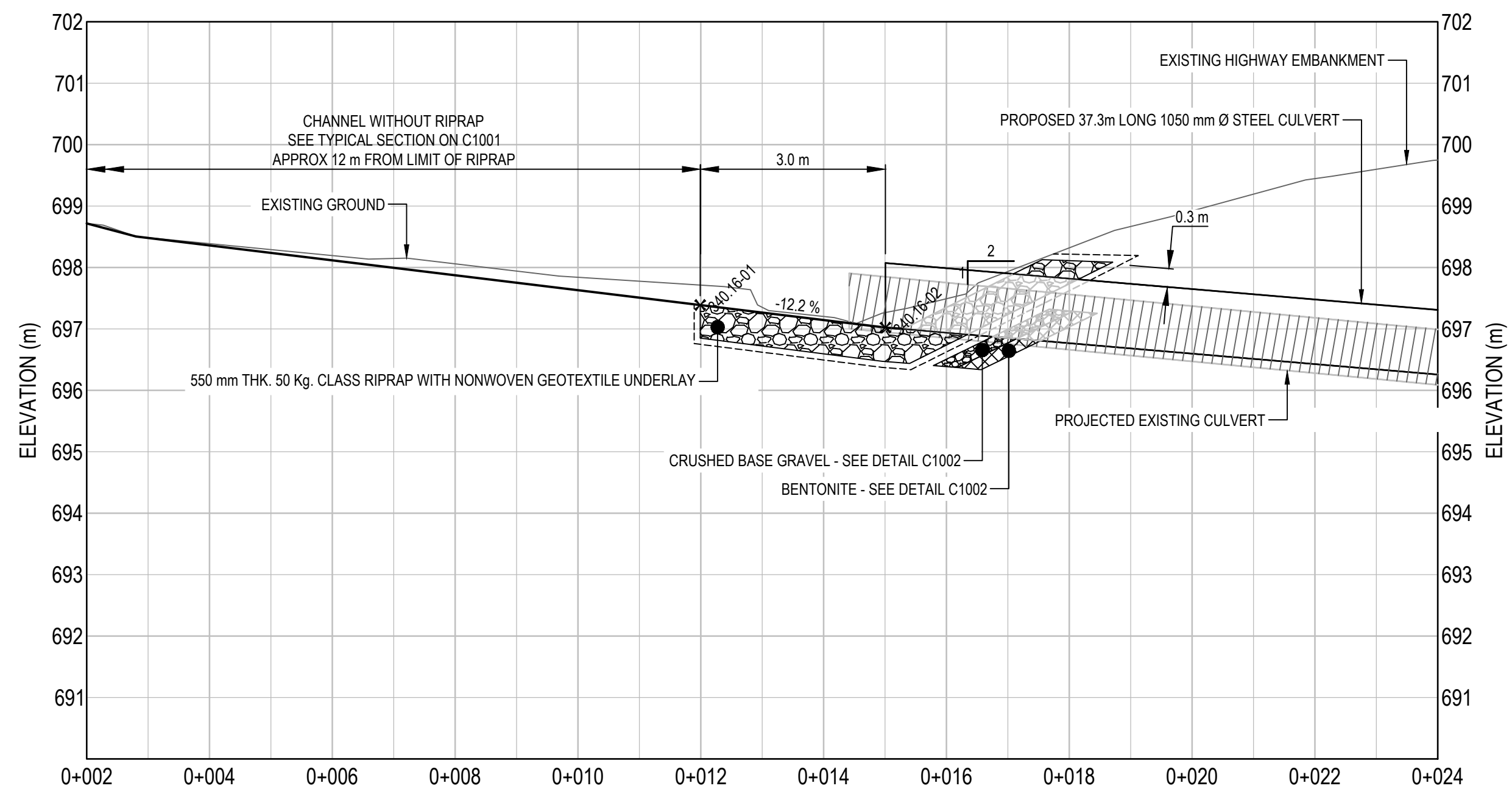
Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

Drawing title/Titre du dessin  
**KM 340.16 CULVERT PLAN / PROFILE**

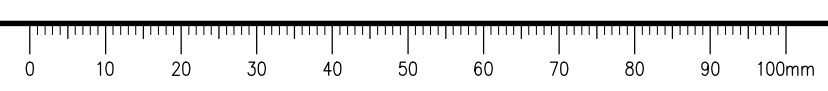
Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
<b>R.115075.003</b>	<b>C2181</b>	<b>0</b>

**LAYOUT TABLE**

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
340.16-01	6,417,276.225	510,998.404	697.389	RIPRAP LIMIT
340.16-02	6,417,275.361	511,001.277	697.024	INLET INVERT
340.16-03	6,417,264.659	511,036.869	693.865	OUTLET INVERT
340.16-04	6,417,263.764	511,039.845	693.600	PI
340.16-05	6,417,264.547	511,041.569	693.493	RIPRAP LIMIT



Q:\Vancouver\Transportation\TRN\VHWY\Projects\TRN\VHWY\Projects\C2181\C2181\_KM 340.16\_344.88\_347.67\_355.02\_CULVERTS.dwg [C2181] July 21, 2021 - 3:34:22 pm (BY: TAKEDA, TAKUMA)





# ISSUED FOR TENDER

- GENERAL NOTES:
1. DIMENSIONS, COORDINATES, ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE.
  2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
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Scale: 1:75 (metres)

Revision/	Description/	Date/
Revisão/	Descrição/	Data/
0	ISSUED FOR TENDER	21/07/21

**PUBLIC SERVICES AND PROCUREMENT CANADA**



Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

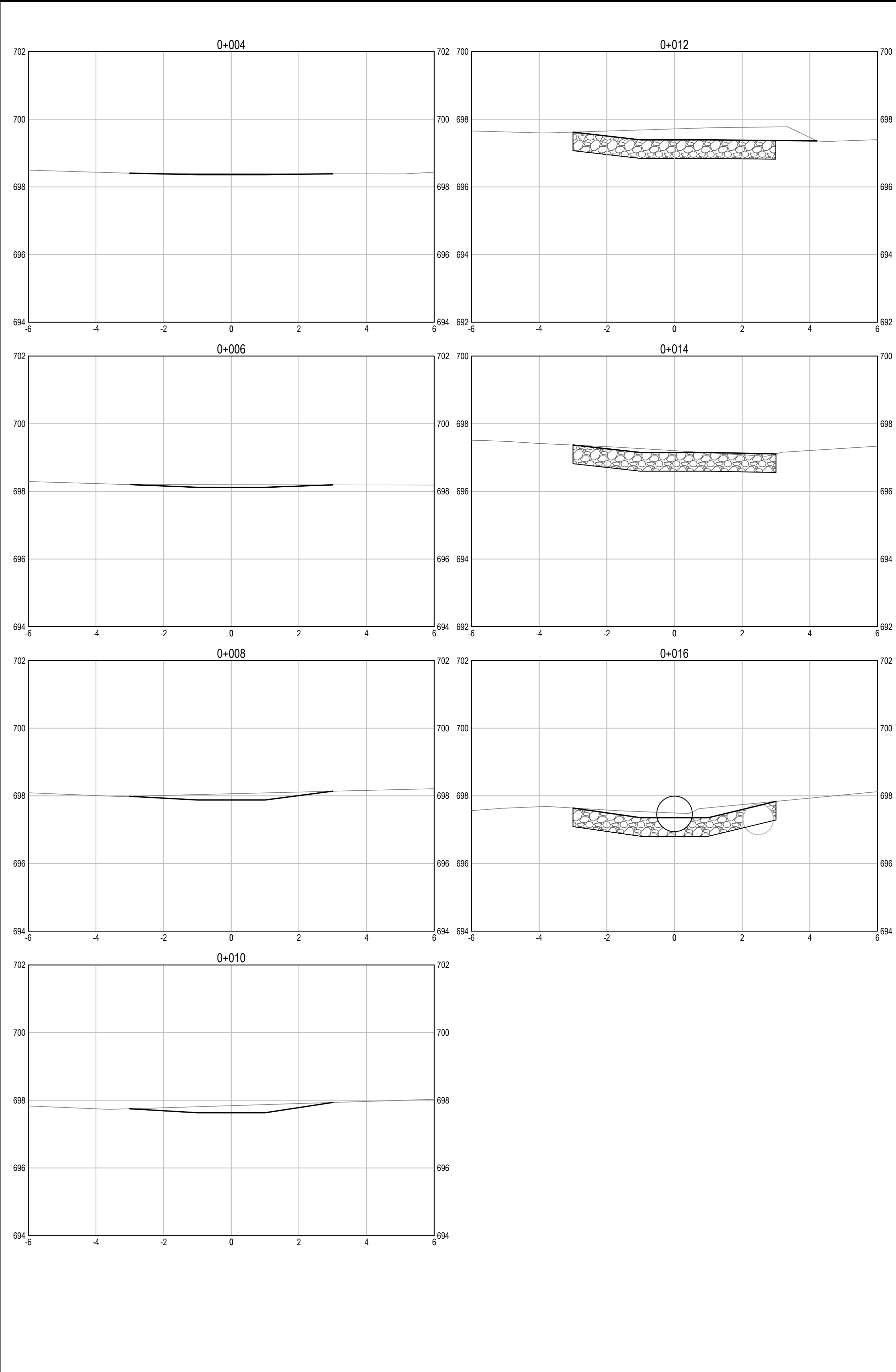
Approved by/Approve par  
**T. TAKEDA**  
Designed by/Concept par  
**A. DEEPWELL**  
Drawn by/Dessiné par  
**A. DEEPWELL / J. SCHITTHELM**  
PSPC Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**  
PSPC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie, TPSGC

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

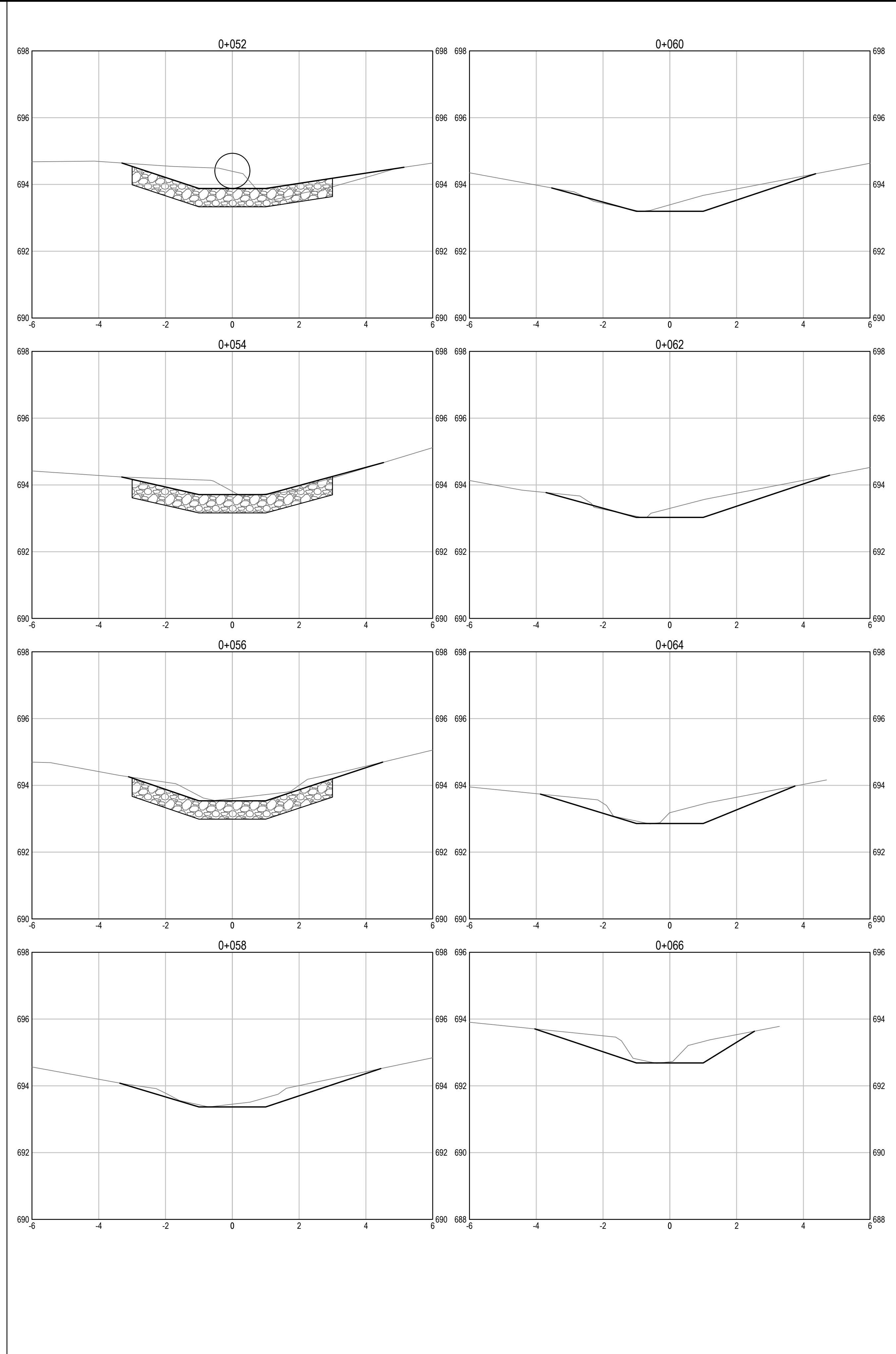
Drawing title/Titre du dessin  
**KM 340.16 CULVERT PROPOSED CHANNEL CROSS SECTIONS**

Project No./No. du projet <b>R.115075.003</b>	Sheet/Fauille <b>C2182</b>	Revision no./La Révision no. <b>0</b>
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Q:\Vancouver\Transportation\TRN\WHY\Projects\TRN\WHY\Projects\KM 325 Culverts\181-C2182 KM 340.16 344.88 347.67 355.02 CULVERTS.dwg [C2182] July 21, 2021 - 3:34:50 pm [BY: TAKEDA, TAKUMA]



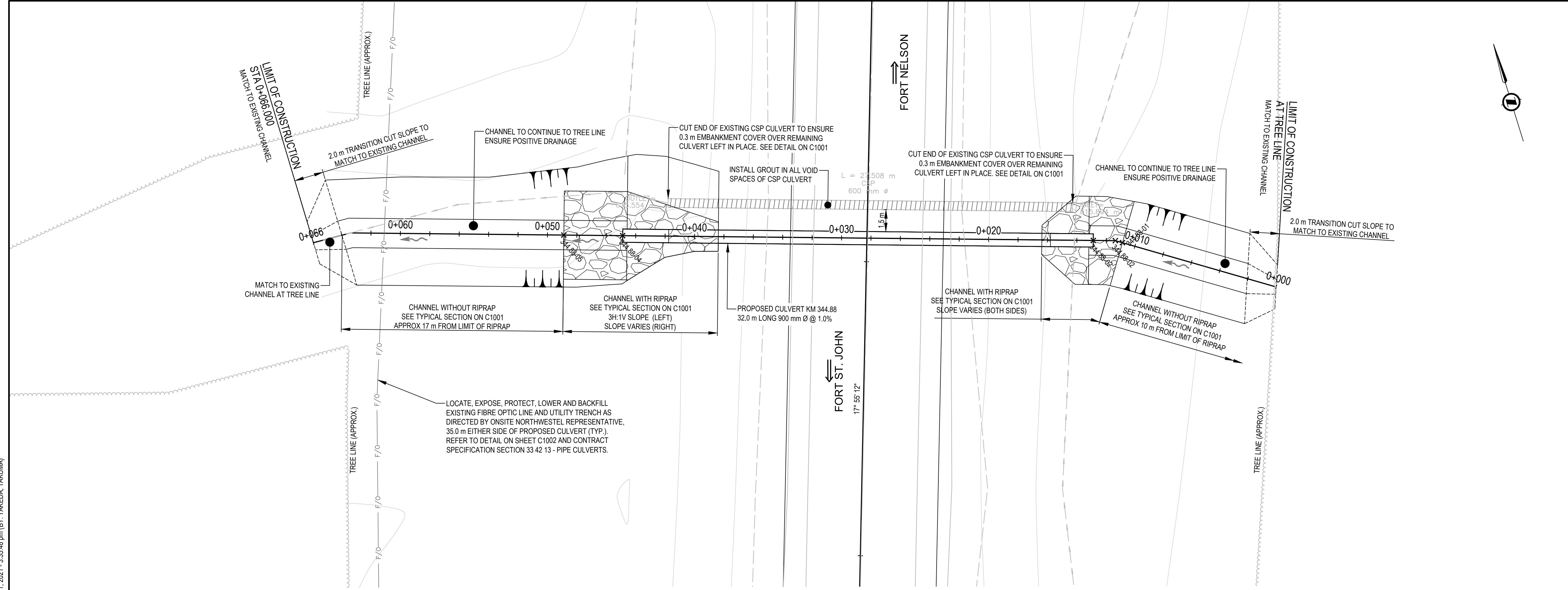
**INLET CROSS SECTIONS**  
SCALE: 1:75



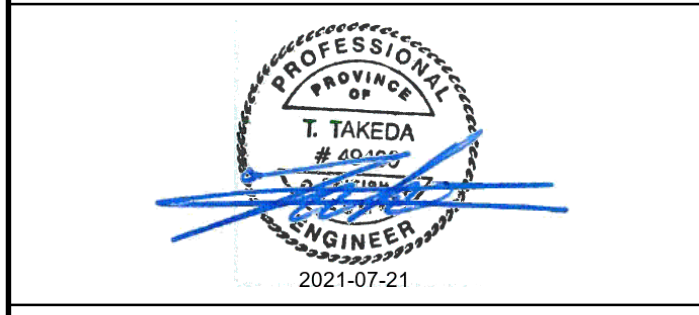
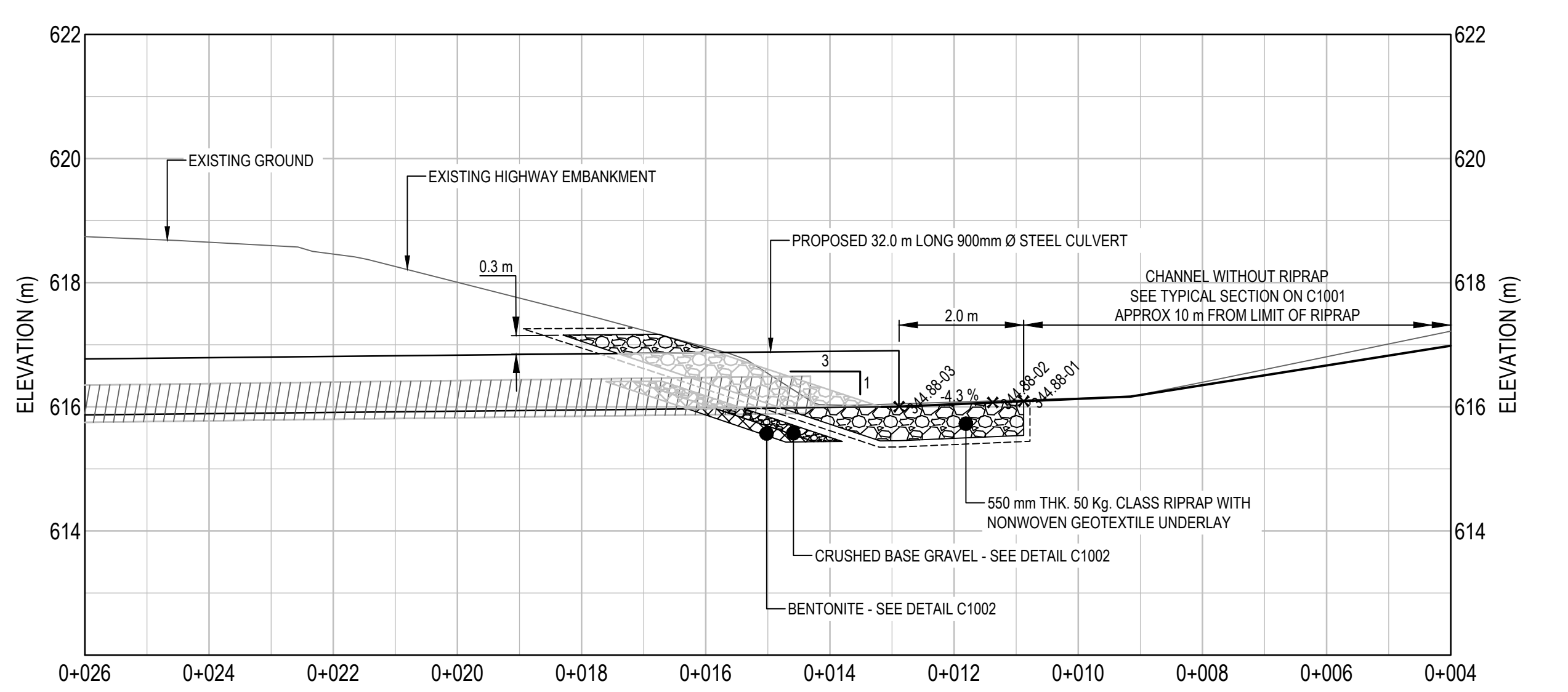
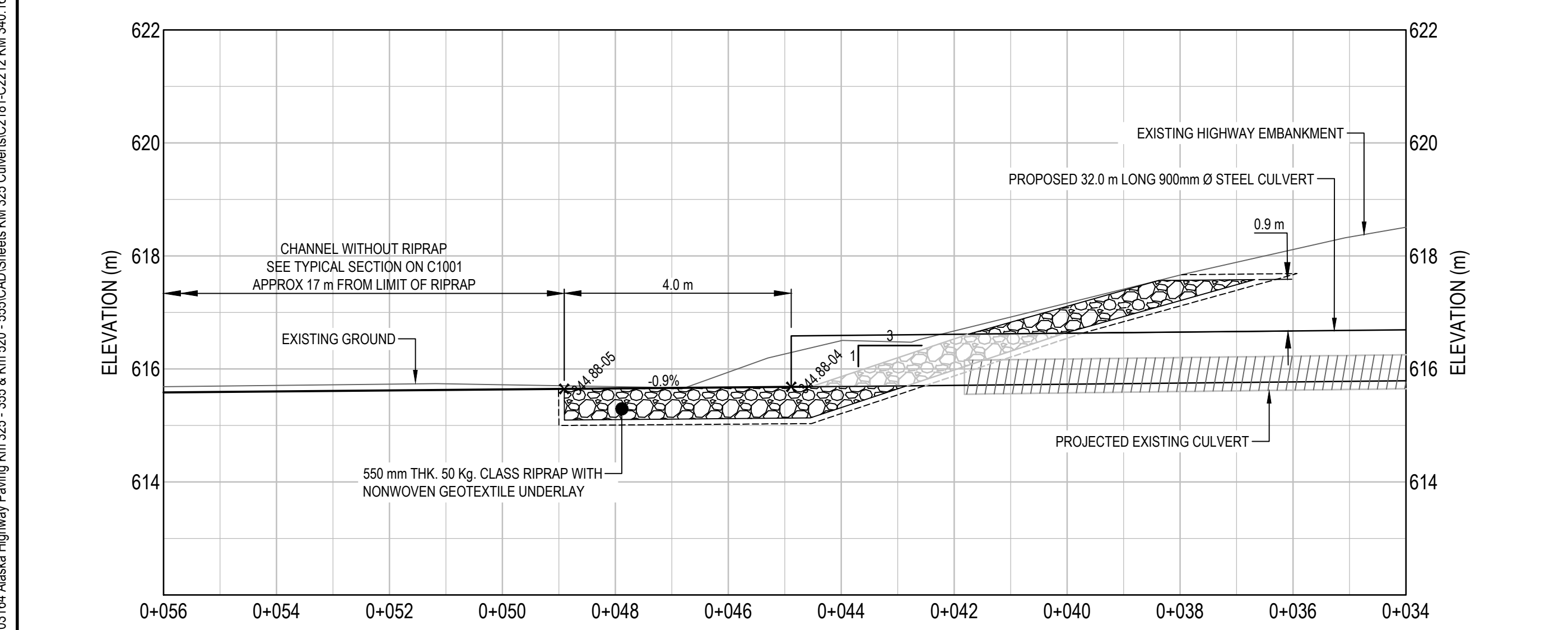
**OUTLET CROSS SECTIONS**  
SCALE: 1:75

# ISSUED FOR TENDER

- GENERAL NOTES:
- DIMENSIONS, COORDINATES, ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
  - ALL DISTURBED AREAS WITHOUT RIPRAP TO BE HYDROSEEDED.
  - FOR ADDITIONAL INFORMATION REFER TO CULVERT PLAN AND PROFILE DRAWINGS.



POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
344.88-01	6,421,860.809	510,760.388	616.211	RIPRAP LIMIT
344.88-02	6,421,862.163	510,758.286	616.068	PI
344.88-03	6,421,862.612	510,756.847	616.003	INLET INVERT
344.88-04	6,421,872.137	510,726.299	615.683	OUTLET INVERT
344.88-05	6,421,872.732	510,724.390	615.665	RIPRAP LIMIT



0	ISSUED FOR TENDER	21/07/21
Revision/Description	Description/Description	Date/Date
Client/client	PUBLIC SERVICES AND PROCUREMENT CANADA	

**PUBLIC SERVICES AND PROCUREMENT CANADA**



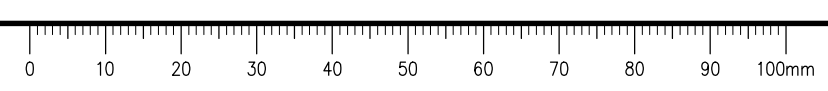
Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

Approved by/Approve par  
**T. TAKEDA**  
 Designed by/Concept par  
**A. DEEPWELL**  
 Drawn by/Dessine par  
**A. DEEPWELL / J. SCHITTHELM**  
 PSPC Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

Drawing title/Titre du dessin  
**KM 344.88 CULVERT PLAN / PROFILE**

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
<b>R.115075.003</b>	<b>C2191</b>	<b>0</b>



Q:\Vancouver\Transportation\TRN\VHWY\Projects\TRN\VHWY\03\64 Alaska Highway Paving Km 325 - 355 & Km 520 - 555\CAD\Sheets\KM 325 Culverts\C2191 July 21, 2021 - 3:35:48 pm (BY: TAKEDA, TAKUMA)



# ISSUED FOR TENDER

- GENERAL NOTES:
1. DIMENSIONS, COORDINATES, ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE.
  2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
  3. ALL DISTURBED AREAS WITHOUT RIPRAP TO BE HYDROSEEDDED.
  4. FOR ADDITIONAL INFORMATION REFER TO CULVERT PLAN AND PROFILE DRAWINGS.



Scale: 1:75 (metres)

Revision/Modification	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/07/21

**PUBLIC SERVICES AND PROCUREMENT CANADA**

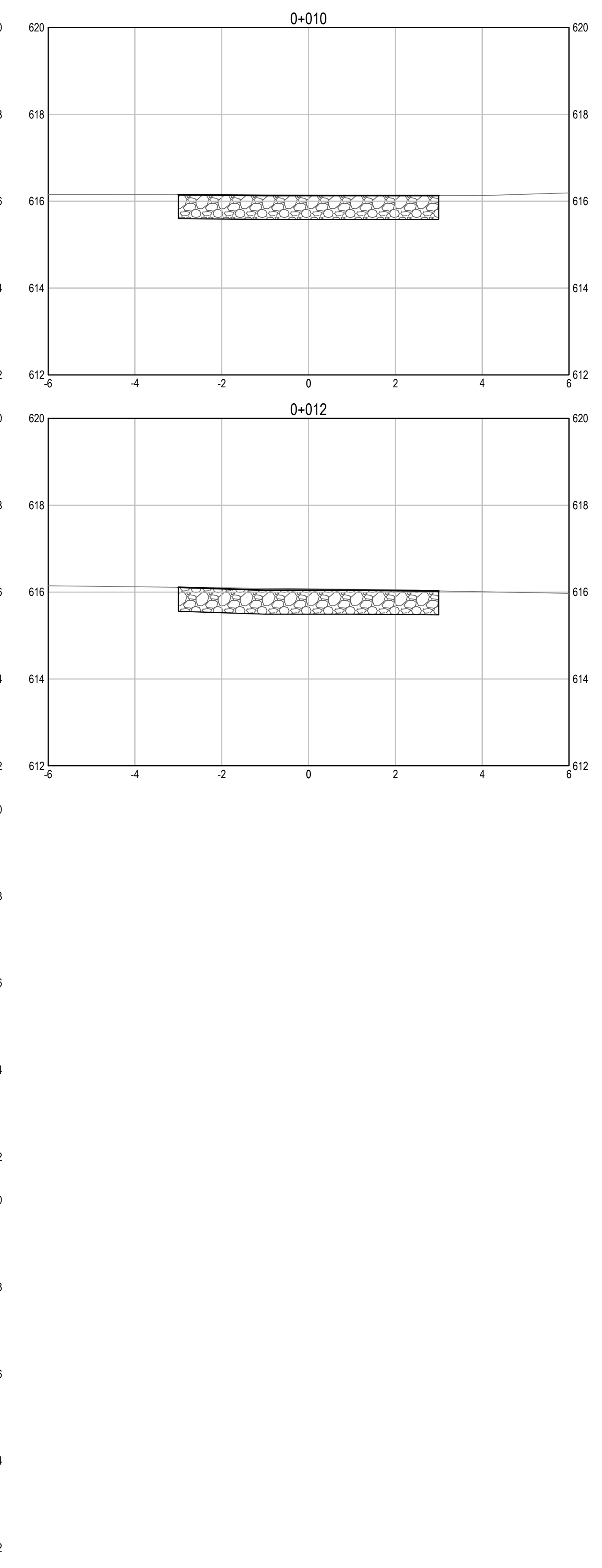
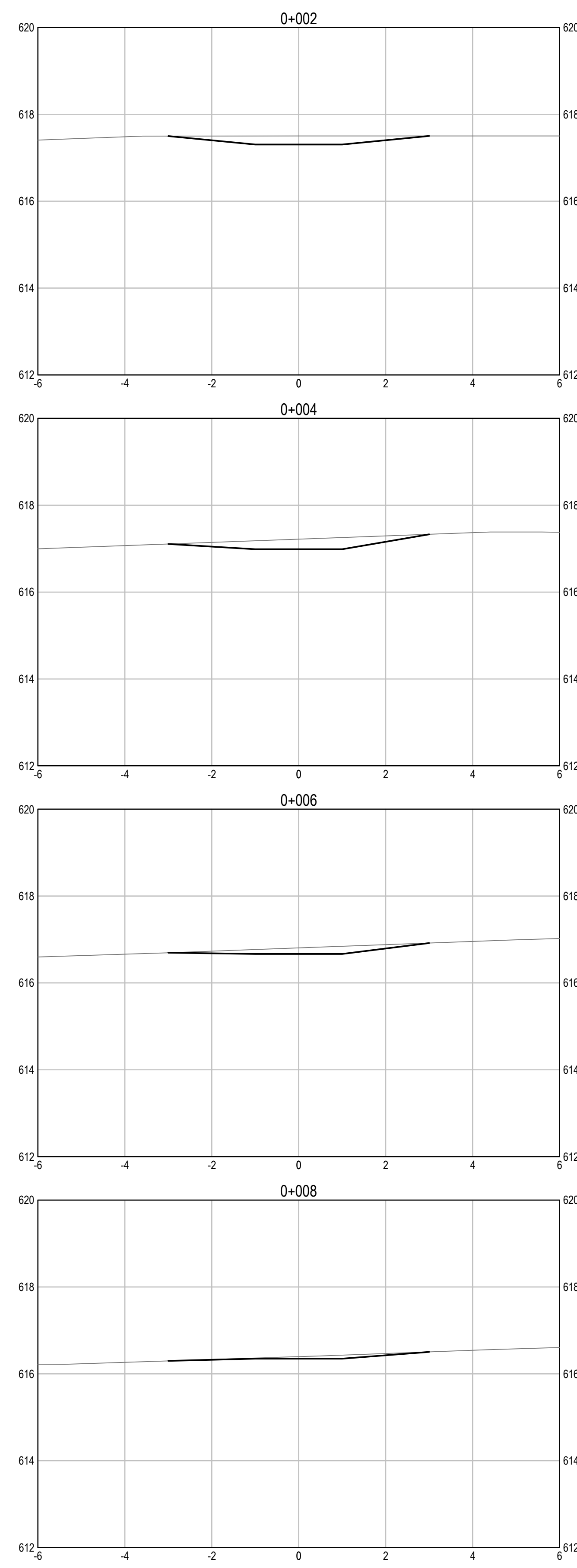


Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

Approved by/Approuvé par  
**T. TAKEDA**  
Designed by/Concept par  
**A. DEEPWELL**  
Drawn by/Dessiné par  
**A. DEEPWELL / J. SCHITTHELM**  
PSPC Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**  
PSPC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC  
Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

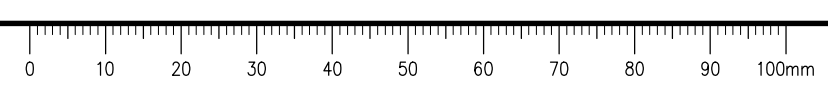
Drawing title/Titre du dessin  
**KM 344.88 CULVERT PROPOSED CHANNEL CROSS SECTIONS (1 of 2)**

Project No./No. du projet <b>R.115075.003</b>	Sheet/Feuille <b>C2192</b>	Revision no./La Révision no. <b>0</b>
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## INLET CROSS SECTIONS

SCALE: 1:75



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# ISSUED FOR TENDER

- GENERAL NOTES:
1. DIMENSIONS, COORDINATES, ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE.
  2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
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Scale: 1:75 (metres)

Revision/Revisión	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/07/21

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**



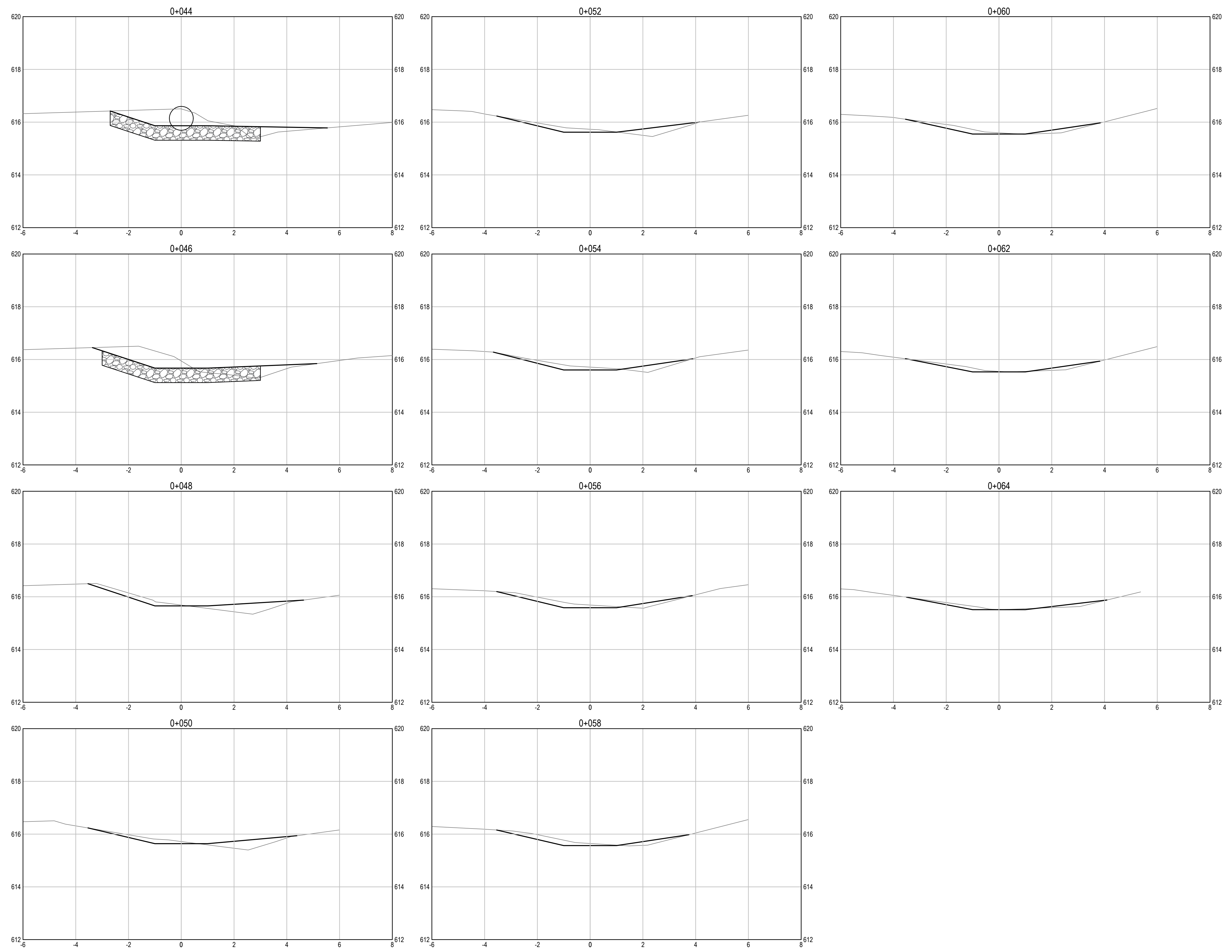
Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

Approved by/Approve par  
**T. TAKEDA**  
Designed by/Concept par  
**A. DEEPWELL**  
Drawn by/Dessine par  
**A. DEEPWELL / J. SCHITTHELM**  
PSPC Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**  
PSPC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC

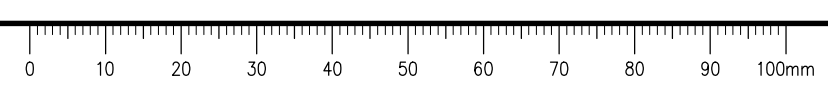
Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

Drawing title/Titre du dessin  
**KM 344.88 CULVERT PROPOSED CHANNEL CROSS SECTIONS (2 of 2)**

Project No./No. du projet <b>R.115075.003</b>	Sheet/Fauille <b>C2193</b>	Revision no./La Révision no. <b>0</b>
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**OUTLET CROSS SECTIONS**  
SCALE: 1:75



Q:\Vancouver\Transportation\TRN\WHY\Projects\TRN\WHY\Projects\KM 325 Culverts\KM 325 Culverts\C2193 - 355 & Km 344.88 347 67 355.02 CULVERTS.dwg [C2193] July 21, 2021 - 3:36:43 pm [BY: TAKEDA, TAKUMA]

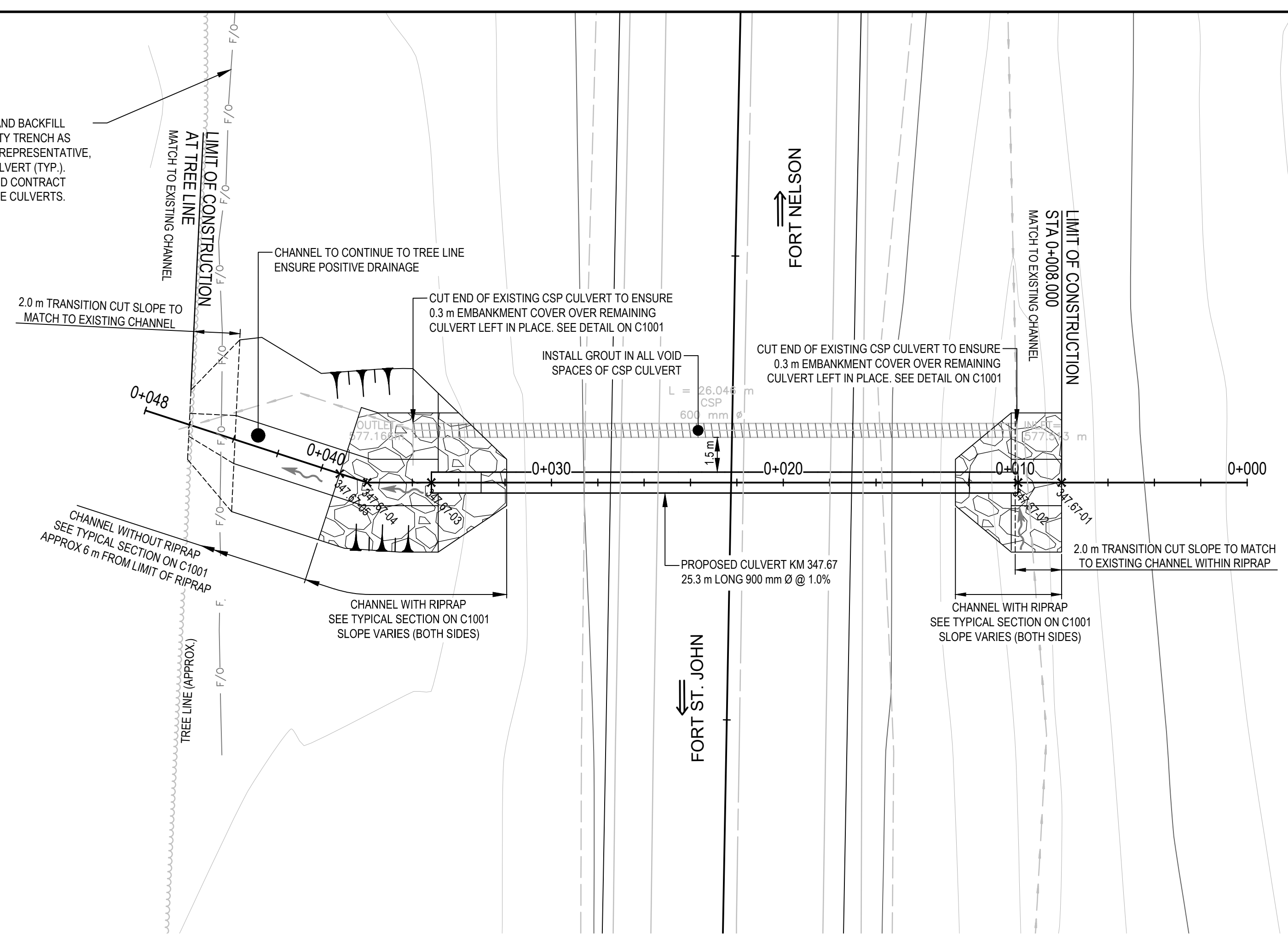




# ISSUED FOR TENDER

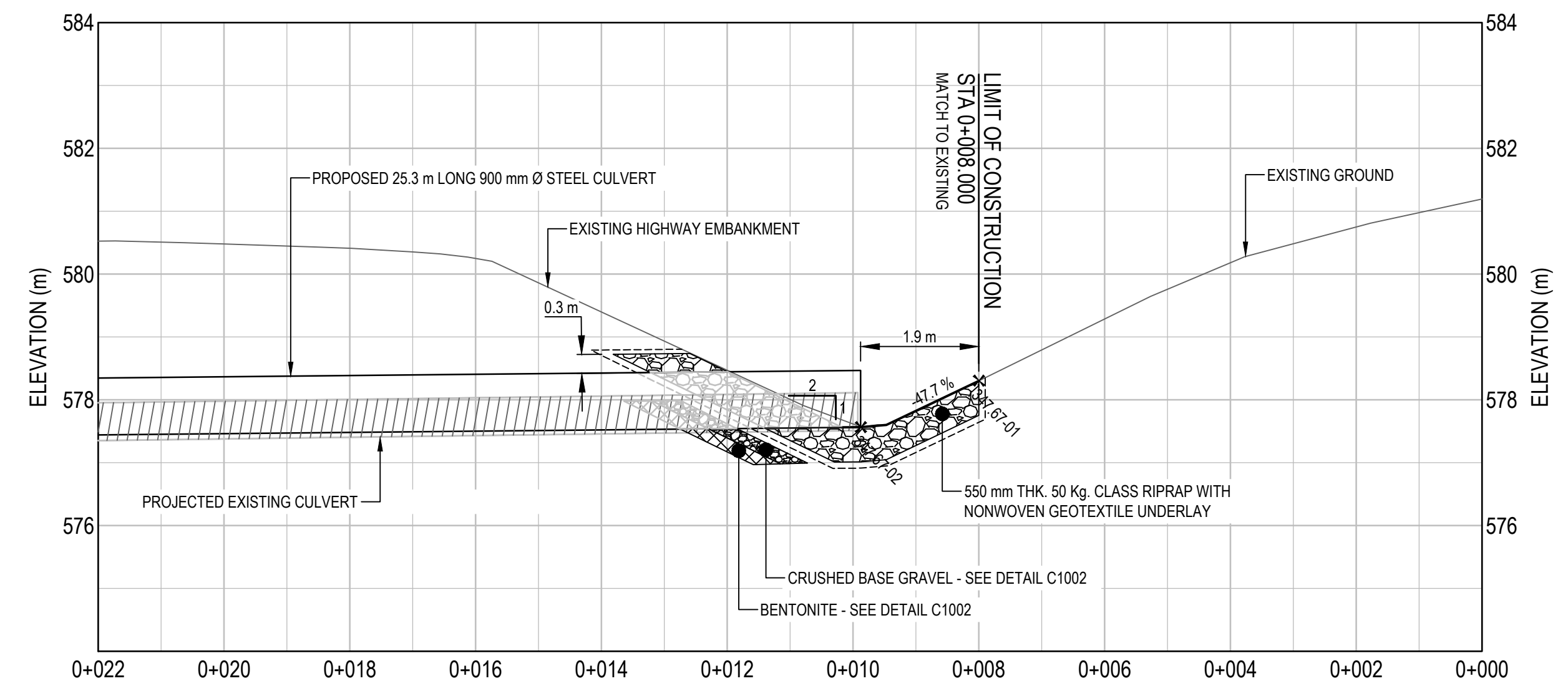
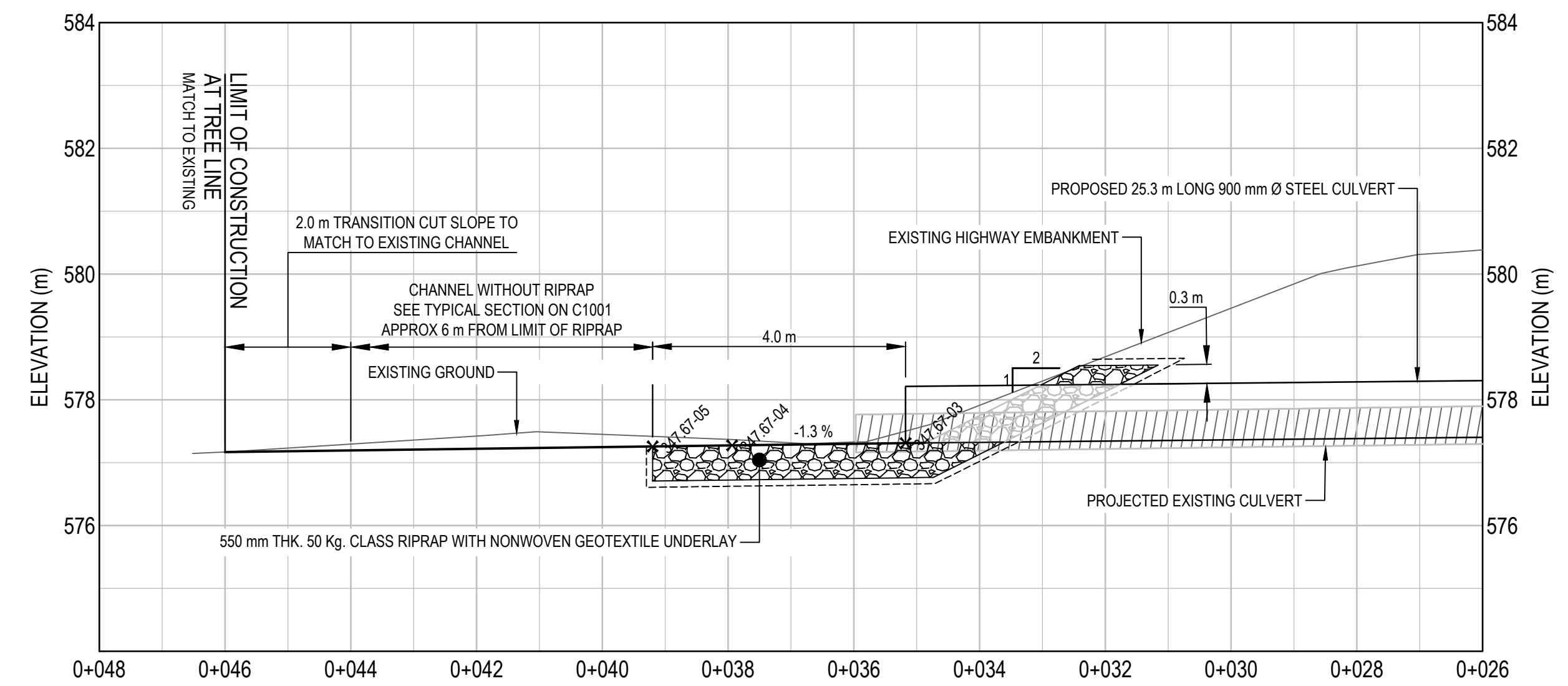
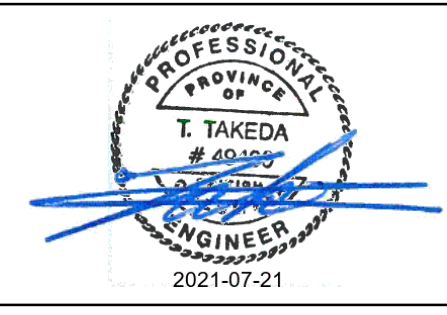
- GENERAL NOTES:
- DIMENSIONS, COORDINATES, ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE.
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  - ALL DISTURBED AREAS WITHOUT RIPRAP TO BE HYDROSEEDED.
  - FOR ADDITIONAL INFORMATION REFER TO CULVERT PLAN AND PROFILE DRAWINGS.

LOCATE, EXPOSE, PROTECT, LOWER AND BACKFILL EXISTING FIBRE OPTIC LINE AND UTILITY TRENCH AS DIRECTED BY ONSITE NORTHWEST REPRESENTATIVE. 35.0 m EITHER SIDE OF PROPOSED CULVERT (TYP.). REFER TO DETAIL ON SHEET C1002 AND CONTRACT SPECIFICATION SECTION 33 42 13 - PIPE CULVERTS.



LAYOUT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
347.67-01	6,424,158.449	512,254.206	578.362	RIPRAP LIMIT
347.67-02	6,424,159.809	512,252.740	577.565	INLET INVERT
347.67-03	6,424,177.014	512,234.193	577.312	OUTLET INVERT
347.67-04	6,424,178.895	512,232.166	577.276	PI
347.67-05	6,424,179.973	512,231.564	577.260	RIPRAP LIMIT



0	ISSUED FOR TENDER	21/07/21
Revision/	Description/Description	Date/Date

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**



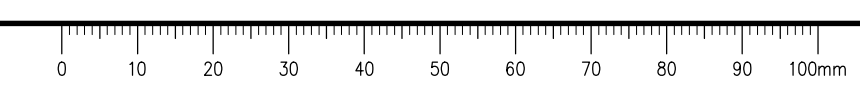
Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

Approved by/Approve par  
**T. TAKEDA**  
 Designed by/Concept par  
**ADEEPWELL**  
 Drawn by/Dessiné par  
**ADEEPWELL / J. SCHITTHELM**  
 PSPC Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**

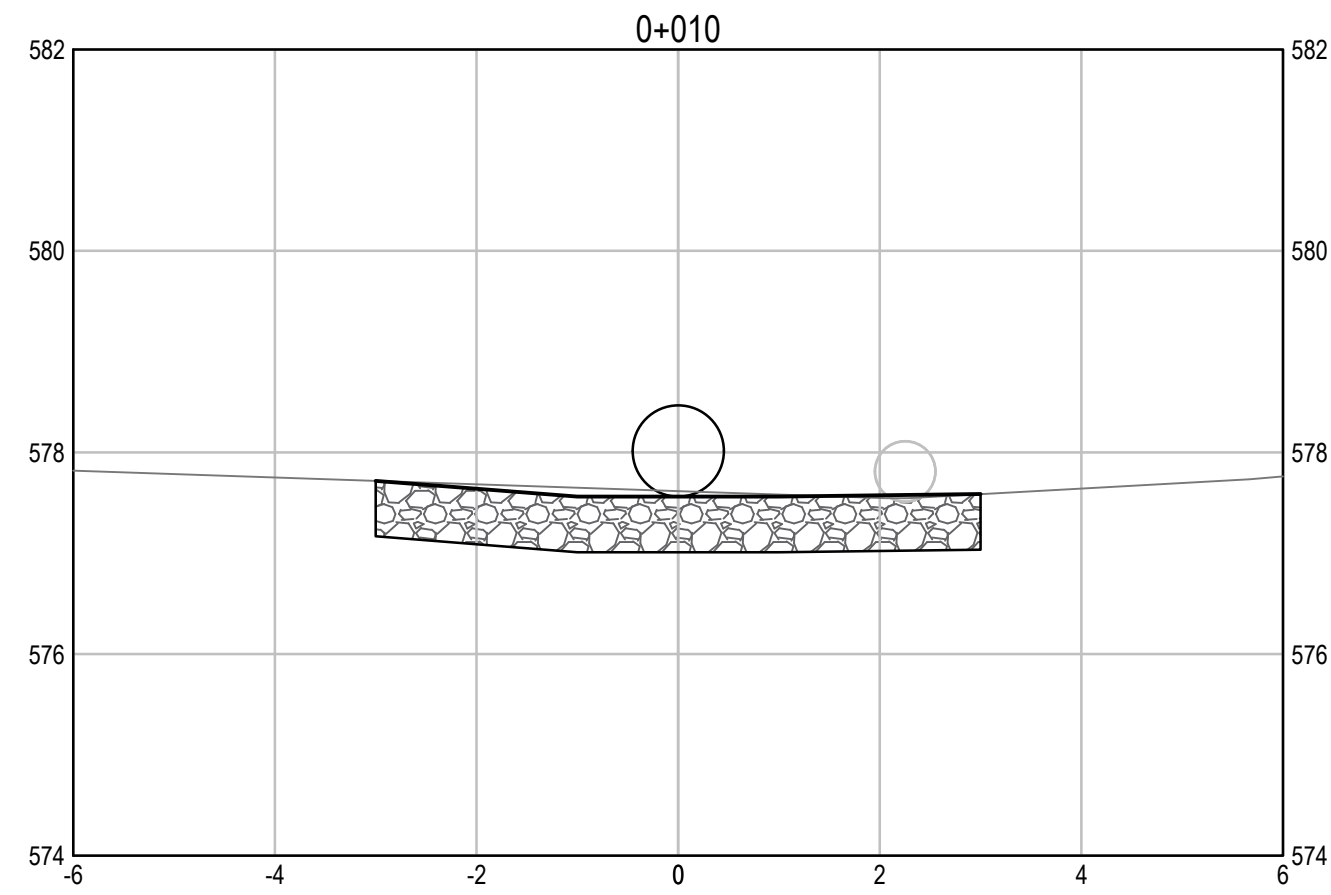
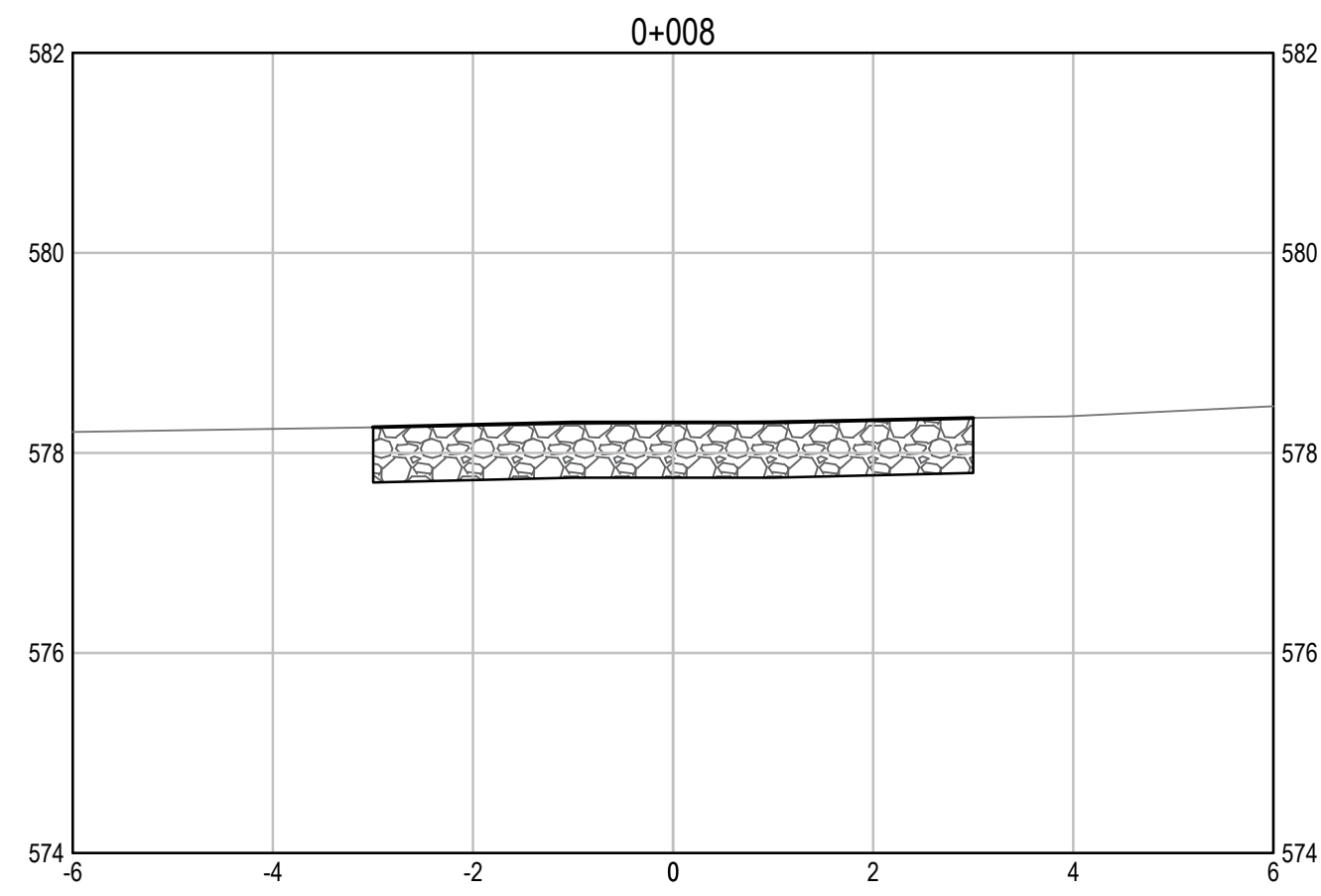
PSPC, Architectural and Engineering Resources Manager/  
 Ressources Architectural et de Directeur d'Ingénierie, TPSGC  
 Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

Drawing title/Titre du dessin  
**KM 347.67 CULVERT PLAN / PROFILE**

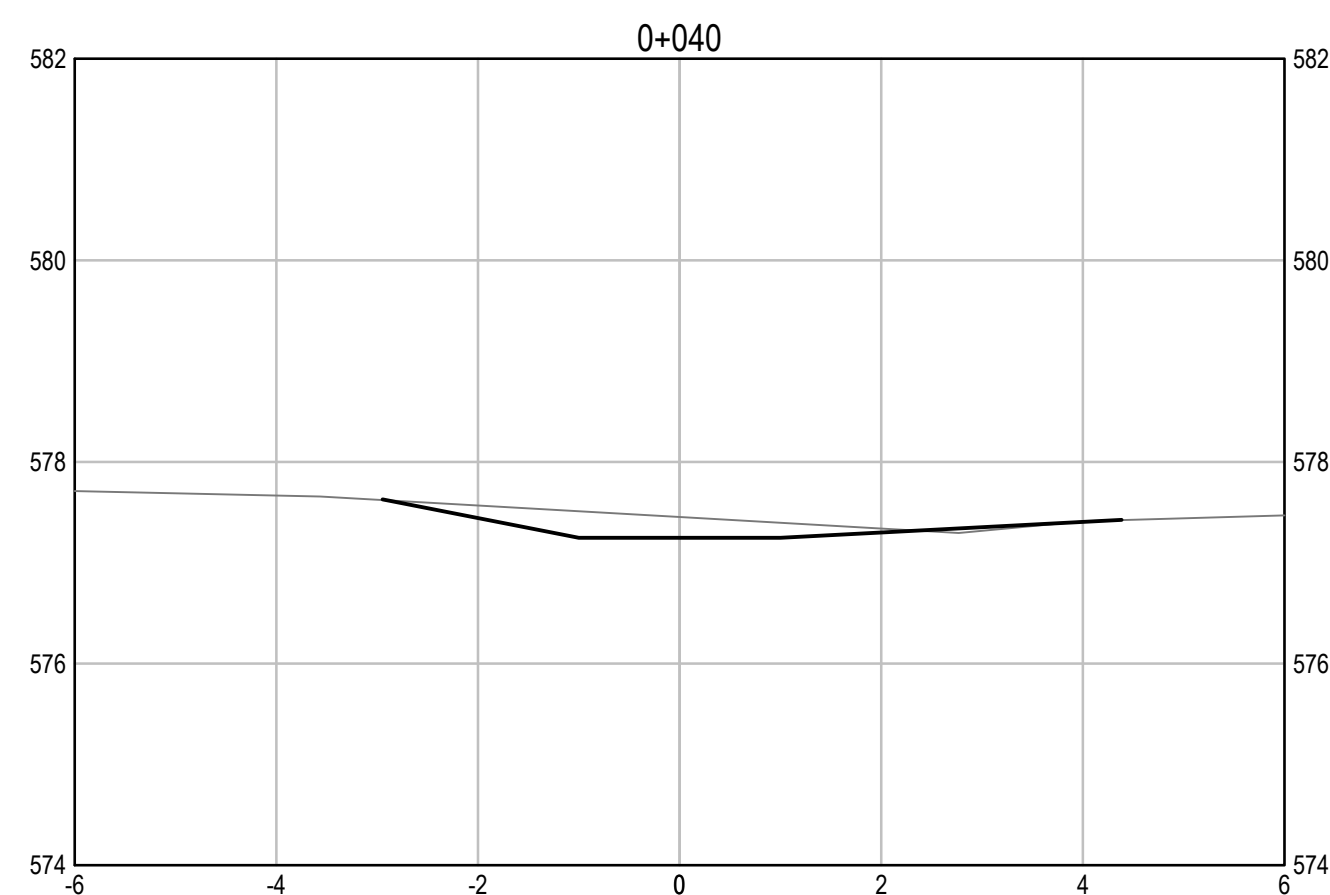
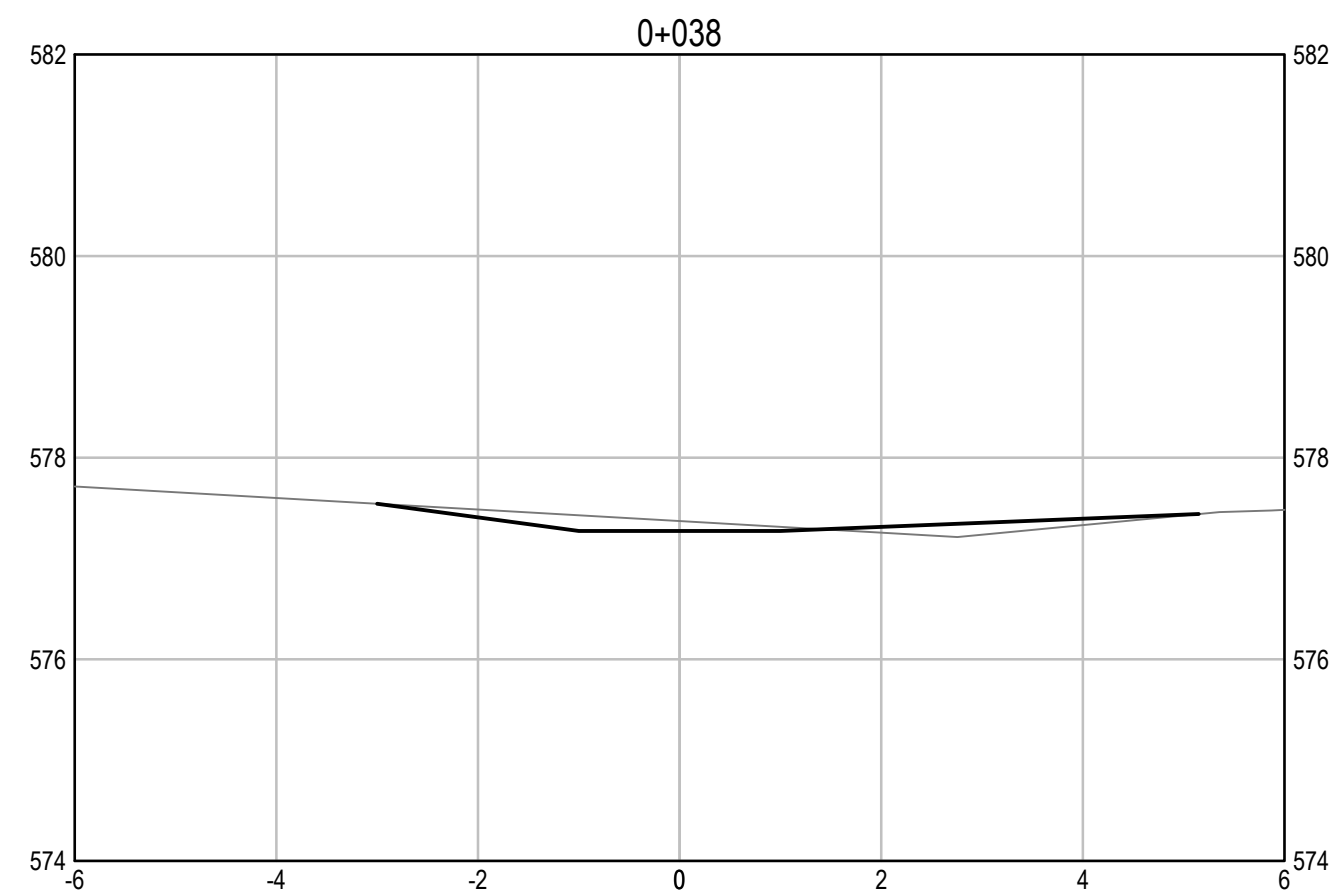
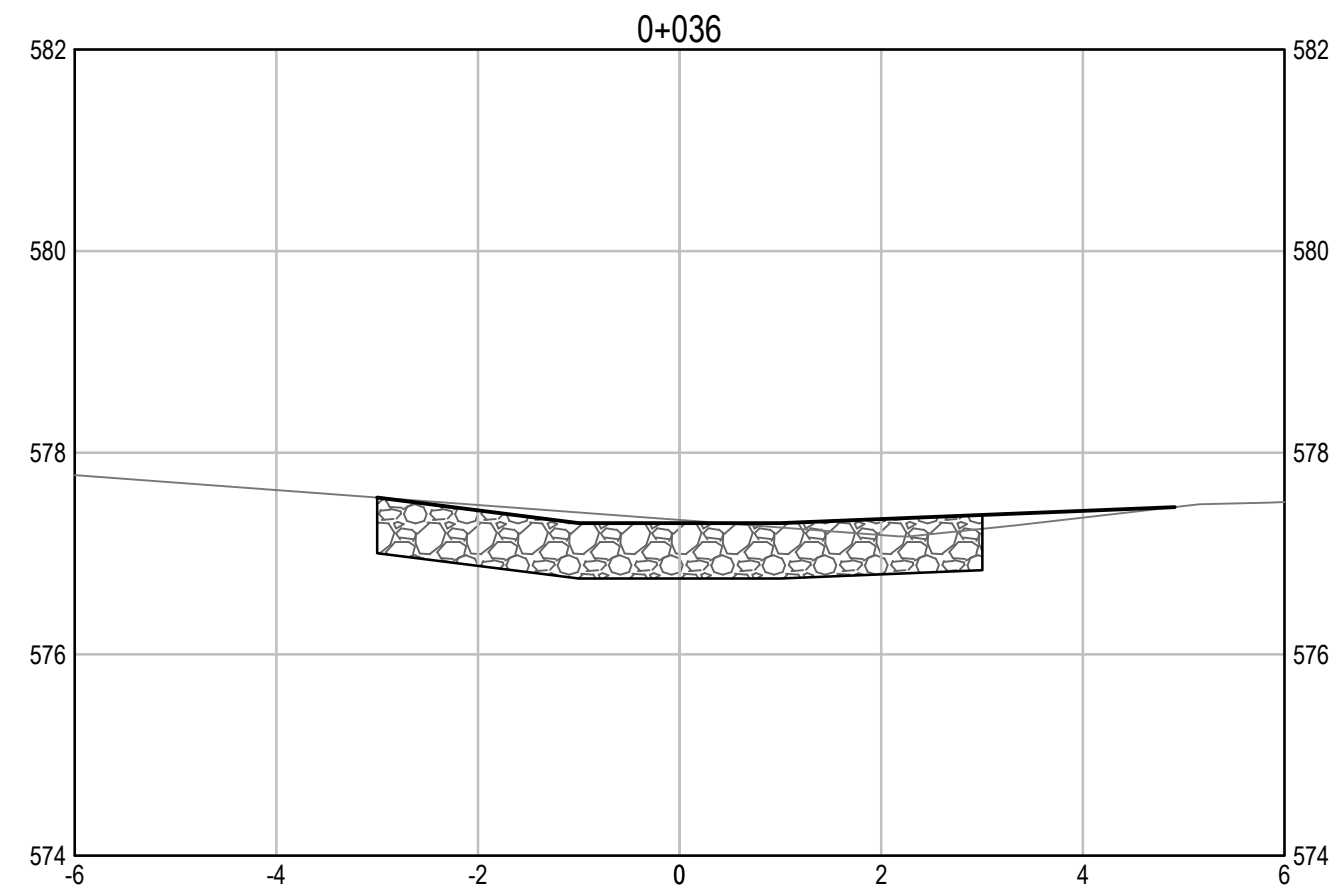
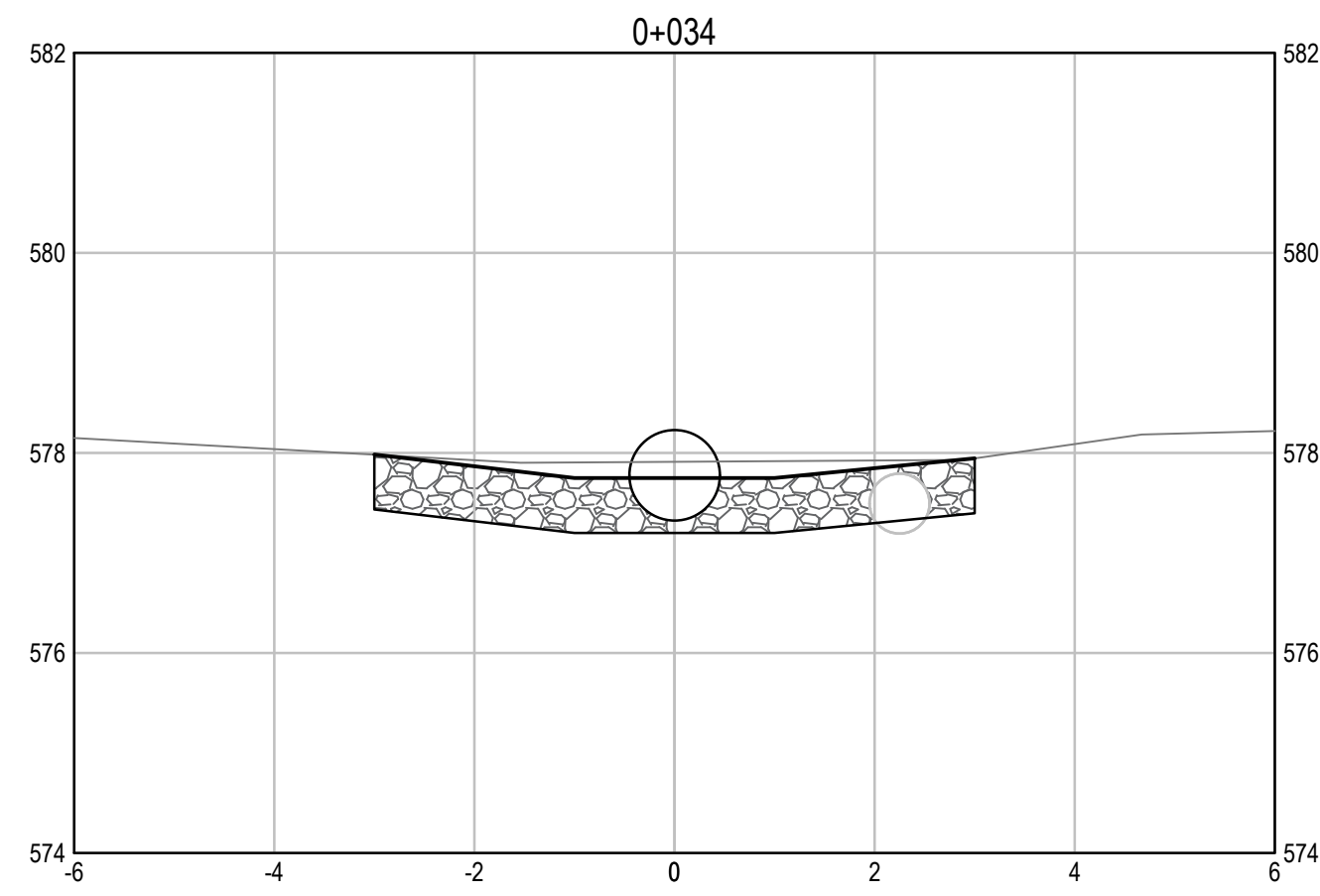
Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
<b>R.115075.003</b>	<b>C2201</b>	<b>0</b>



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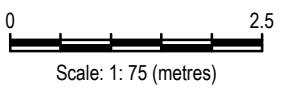
**INLET CROSS SECTIONS**  
SCALE: 1:75



**OUTLET CROSS SECTIONS**  
SCALE: 1:75

**ISSUED FOR TENDER**

- GENERAL NOTES:
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Revision/Édition	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/07/21

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**



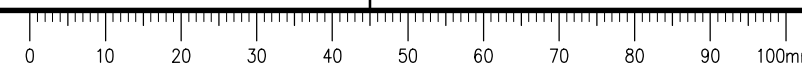
Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

Approved by/Approuvé par  
**T. TAKEDA**  
Designed by/Concept par  
**A. DEEPWELL**  
Drawn by/Dessiné par  
**A. DEEPWELL / J. SCHITTHELM**  
PSPC Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**  
PSPC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSGC

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

Drawing title/Titre du dessin  
**KM 347.67 CULVERT PROPOSED CHANNEL CROSS SECTIONS**

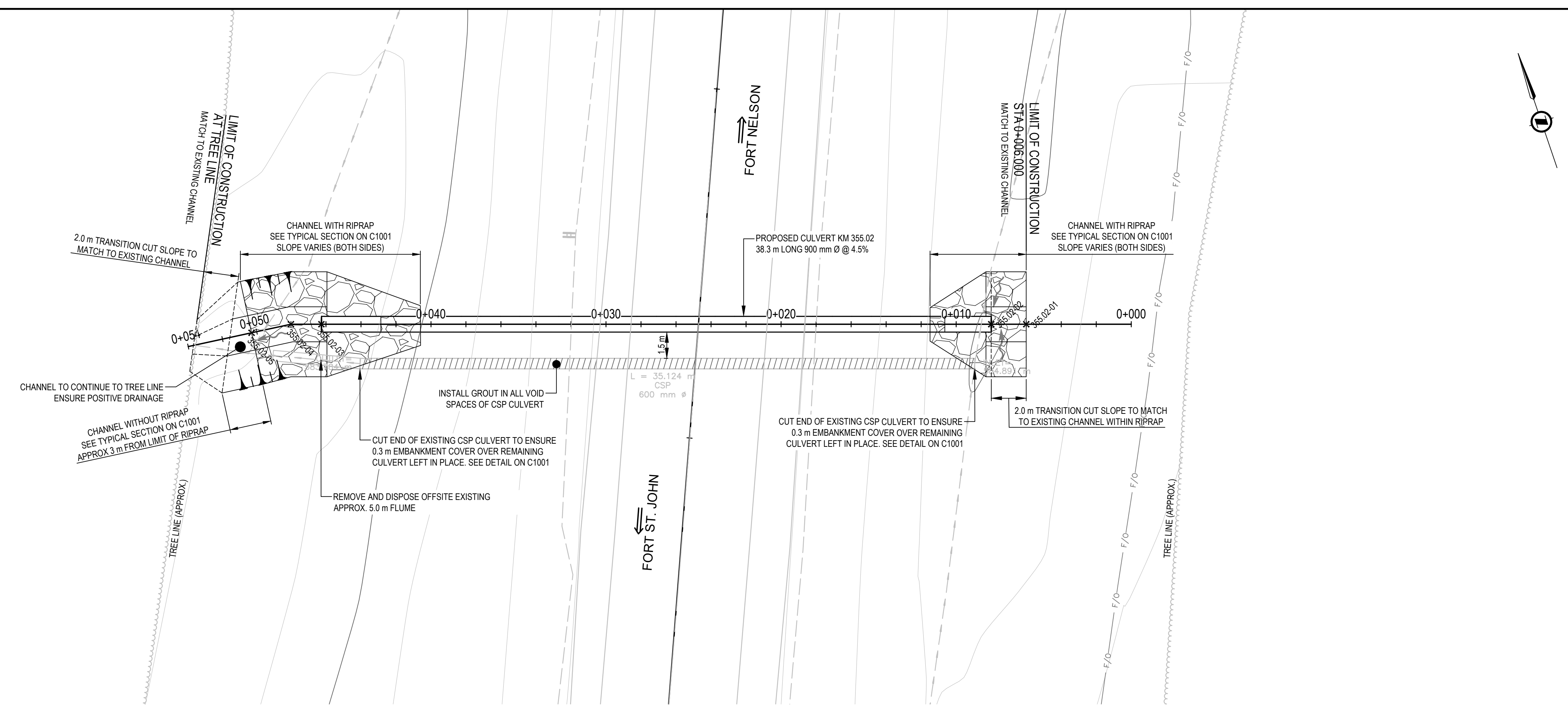
Project No./No. du projet <b>R.115075.003</b>	Sheet/Feuille <b>C2202</b>	Revision no./La Révision no. <b>0</b>
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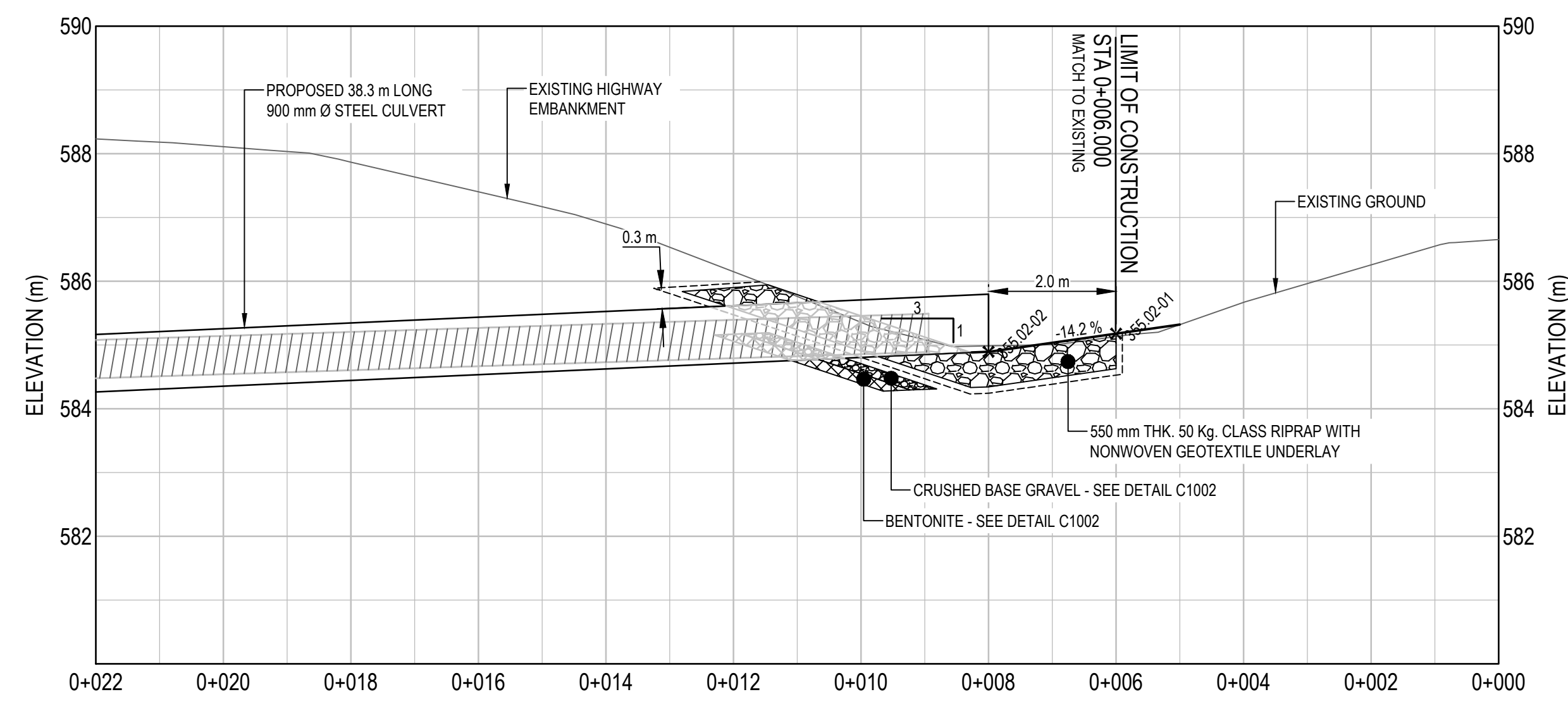
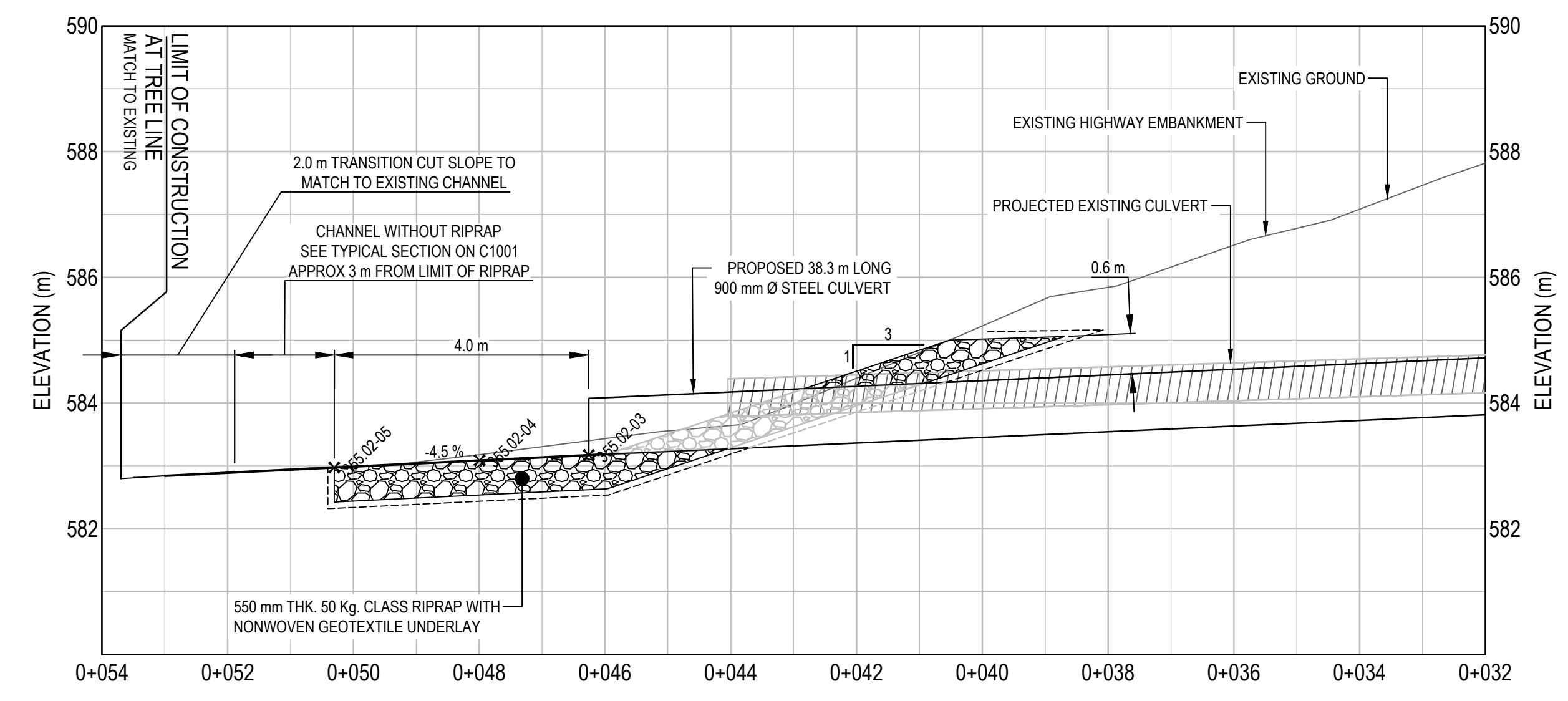
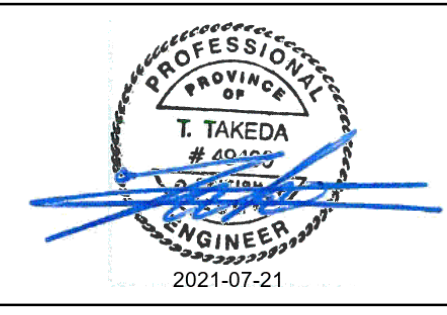
# ISSUED FOR TENDER

- GENERAL NOTES:  
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LAYOUT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
355.02-01	6,430,005.488	516,298.325	585.178	RIPRAP LIMIT
355.02-02	6,430,006.129	516,296.433	584.896	INLET INVERT
355.02-03	6,430,018.395	516,260.191	583.174	OUTLET INVERT
355.02-04	6,430,018.953	516,258.542	583.089	PI
355.02-05	6,430,019.206	516,256.296	582.978	RIPRAP LIMIT



0	ISSUED FOR TENDER	21/07/21
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Client/client: **PUBLIC SERVICES AND PROCUREMENT CANADA**



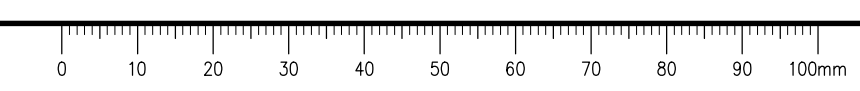
Project title/Titre du projet:  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

Approved by/Approuvé par: **T. TAKEDA**  
 Designed by/Concept par: **A. DEEPWELL**  
 Drawn by/Dessiné par: **A. DEEPWELL / J. SCHITTHELM**  
 P.S.P.C. Project Manager/Administrateur de Projets TPSGC: **R. HAGHIGHI**

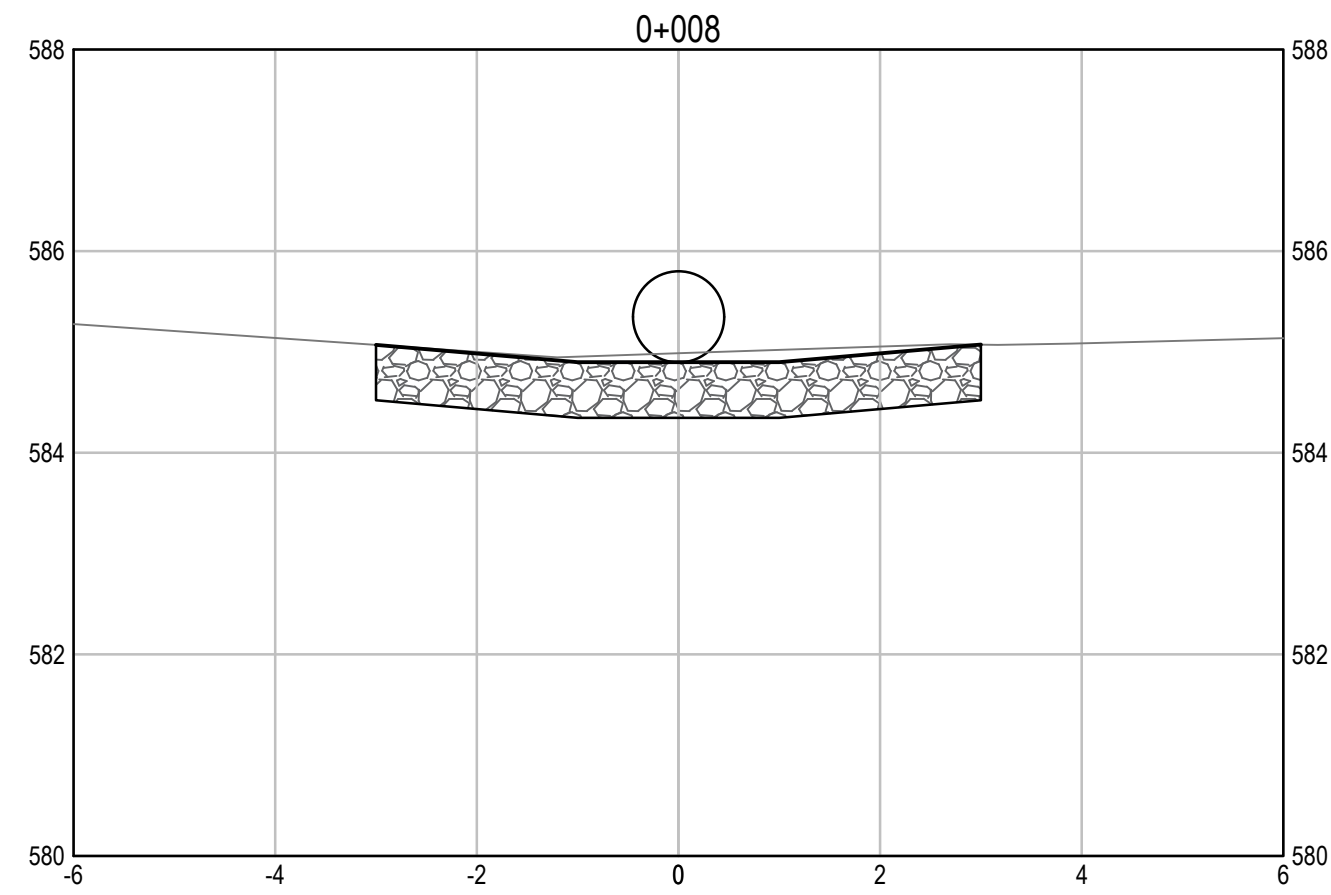
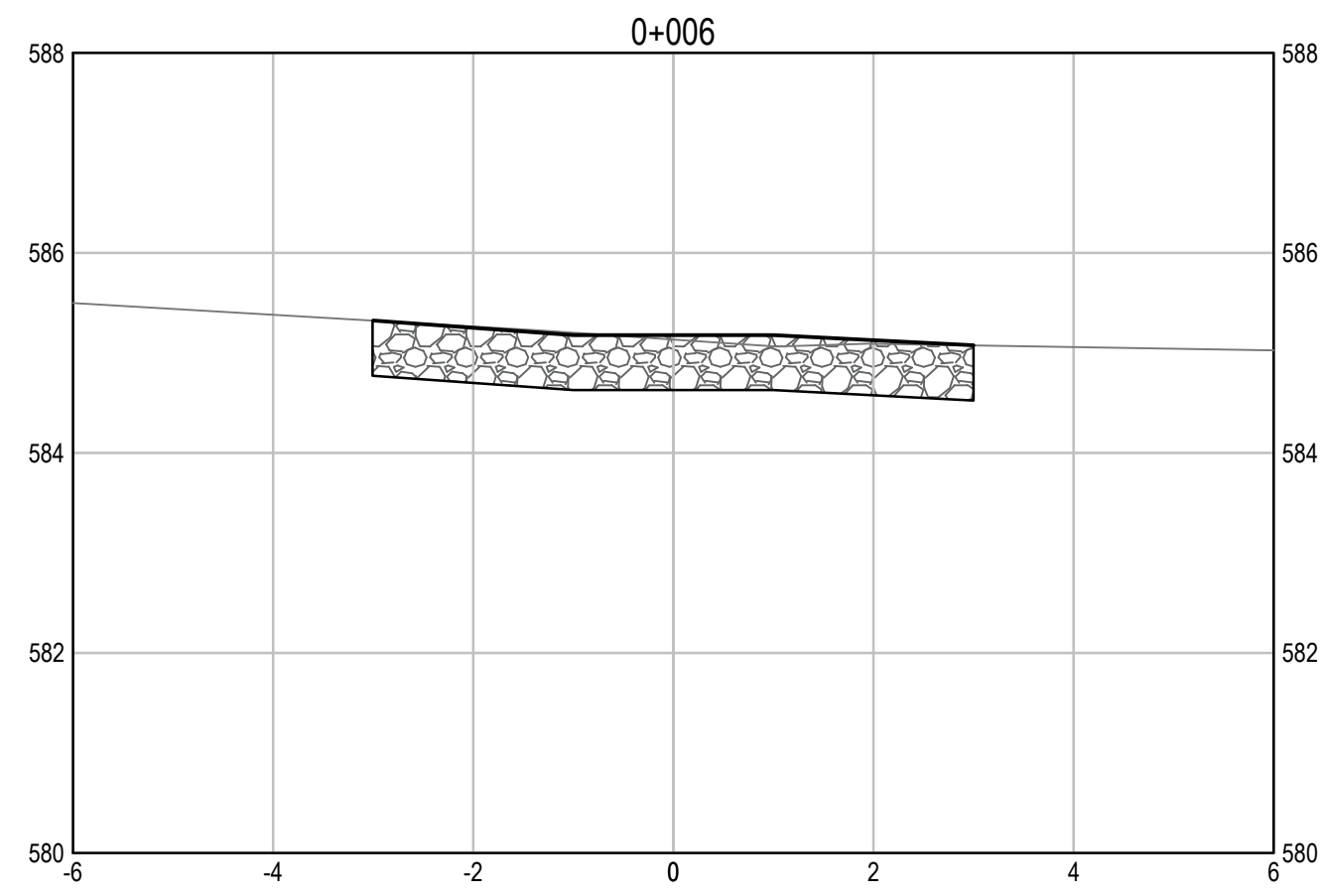
Client/client: **PUBLIC SERVICES AND PROCUREMENT CANADA**

Drawing title/Titre du dessin:  
**KM 355.02 CULVERT PLAN / PROFILE**

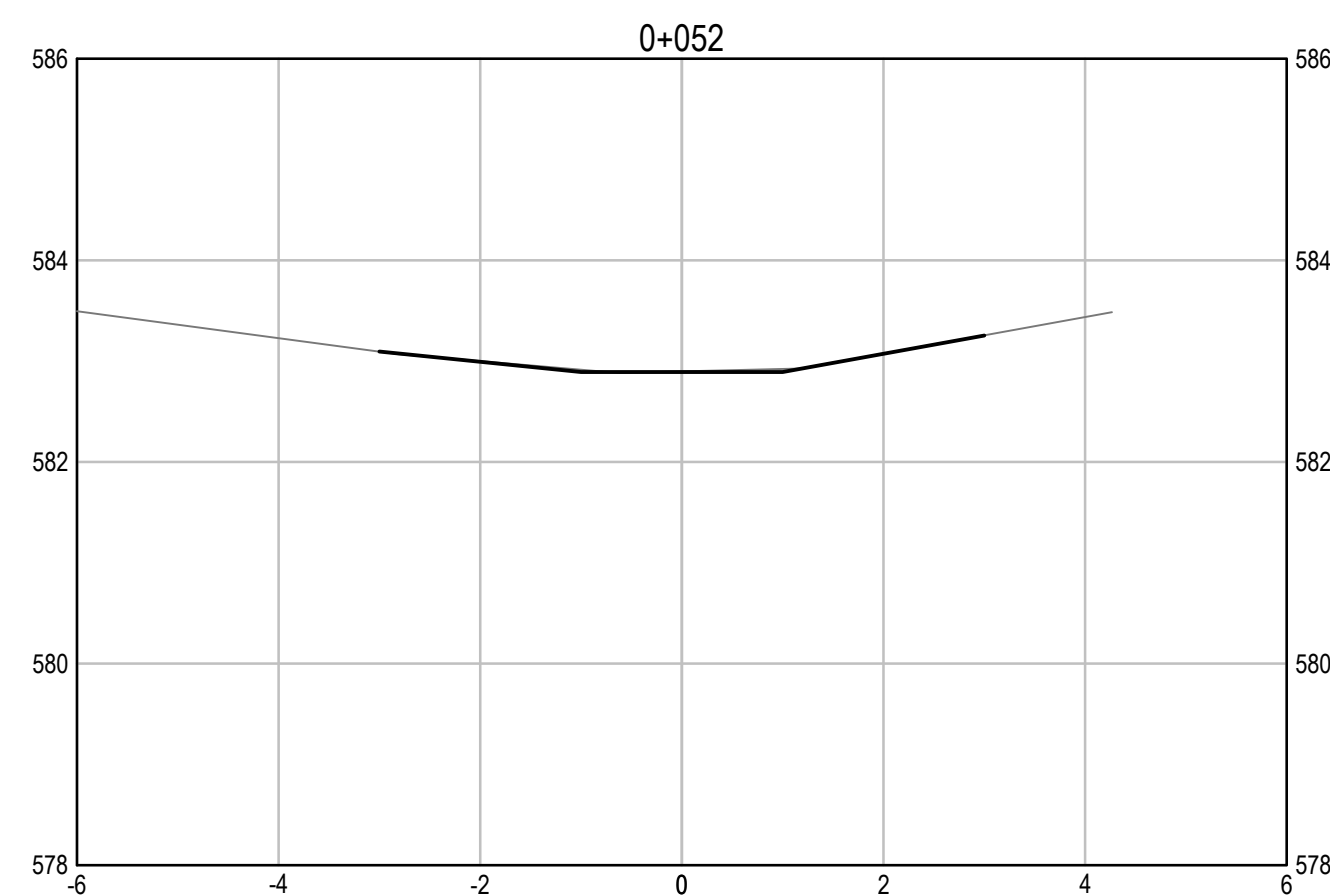
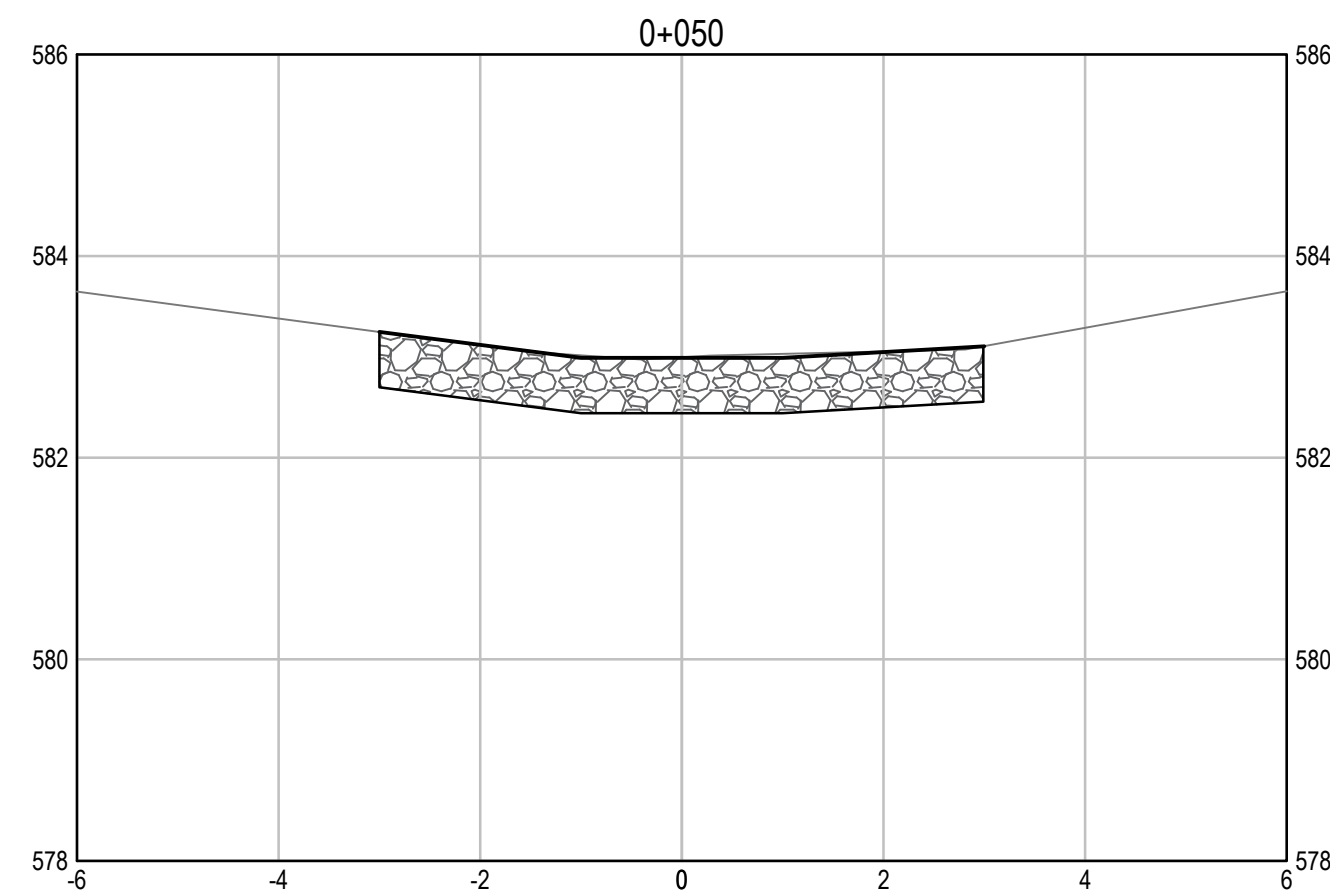
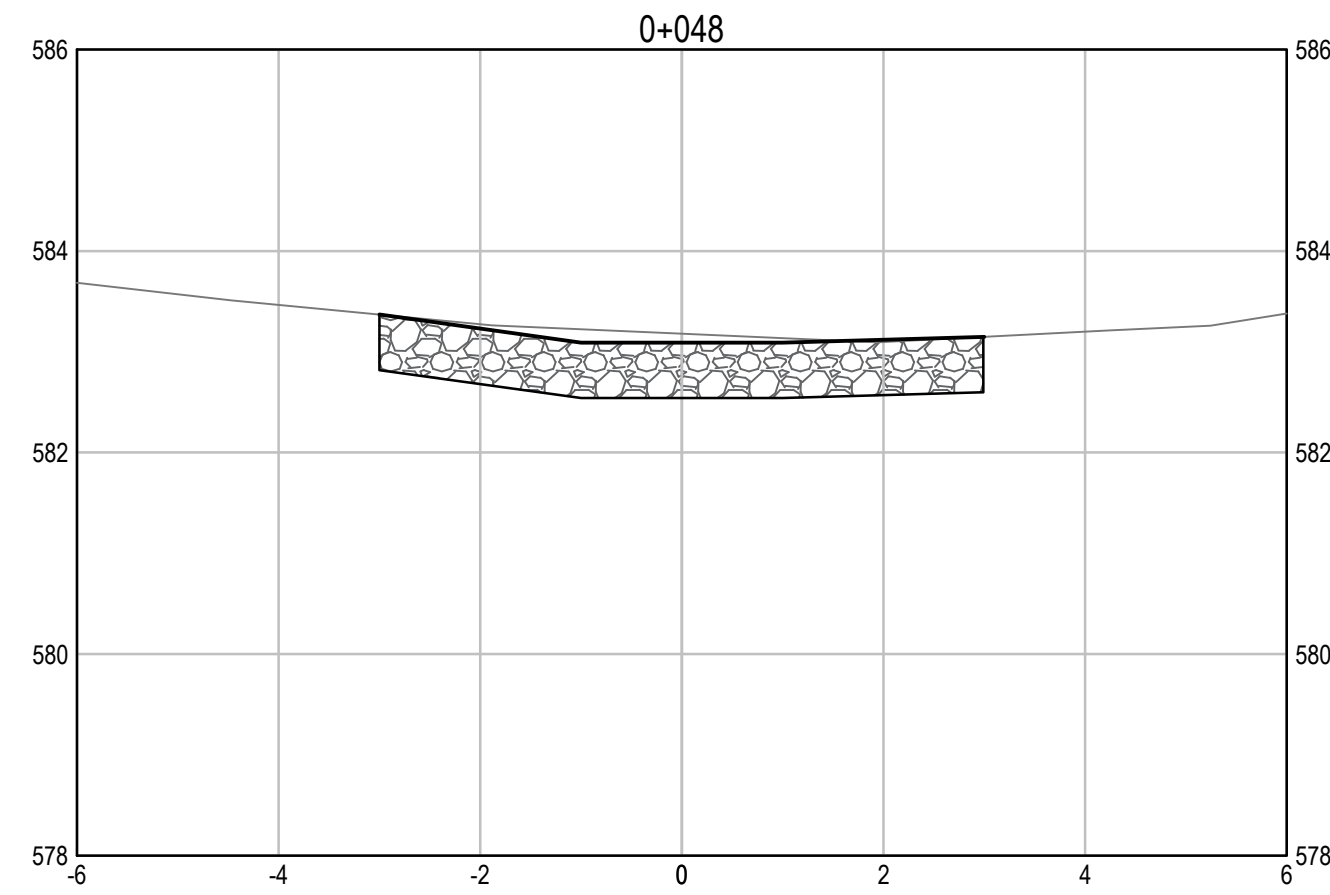
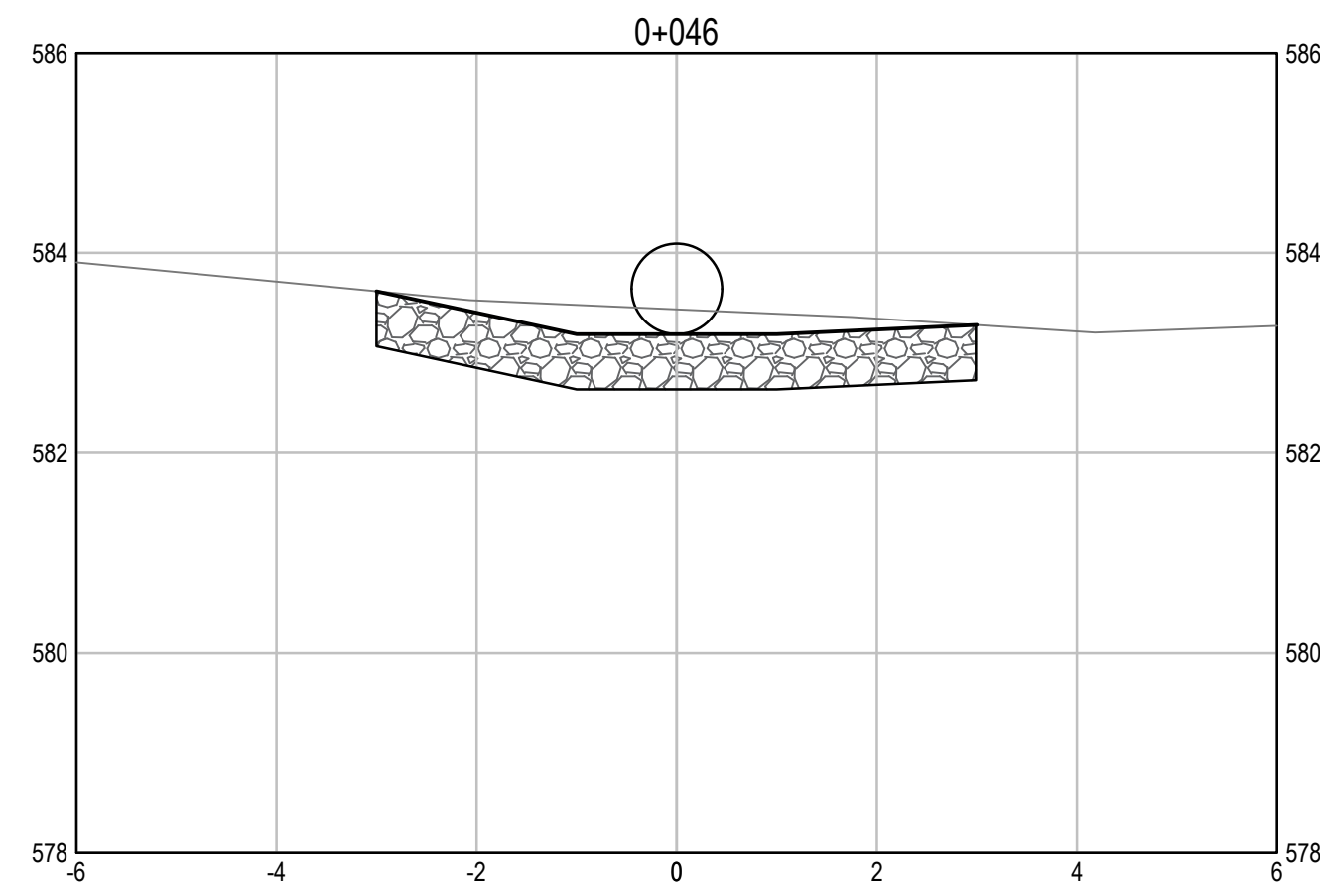
Project No./No. du projet: <b>R.115075.003</b>	Sheet/Fauille: <b>C2211</b>	Revision no./La Révision no.: <b>0</b>
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Q:\Vancouver\Transportation\TRN\WHY\Projects\TRN\WHY\03\64 Alaska Highway Paving Km 325 - 355 & Km 520 - 555\CAD\Sheets KM 325 Culverts\C2212\C2212 KM 340.16 344.88 347.67 355.02 CULVERTS.dwg [C2212] July 21, 2021 - 3:40:19 pm (BY: TAKEDA, TAKUMA)



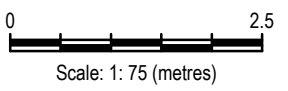
**INLET CROSS SECTIONS**  
SCALE: 1:75



**OUTLET CROSS SECTIONS**  
SCALE: 1:75

**ISSUED FOR TENDER**

- GENERAL NOTES:
1. DIMENSIONS, COORDINATES, ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE.
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Revision/Édition	Description/Description	Date/Date
0	ISSUED FOR TENDER	21/07/21

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**



Project title/Titre du projet  
**KM 325 - 355 DRAINAGE IMPROVEMENTS ALASKA HIGHWAY, BC**

Approved by/Approuvé par  
**T. TAKEDA**  
Designed by/Concept par  
**A. DEEPWELL**  
Drawn by/Dessiné par  
**A. DEEPWELL / J. SCHITTHELM**  
PSPC Project Manager/Administrateur de Projets TPSGC  
**R. HAGHIGHI**  
PSPC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSGC

Client/client  
**PUBLIC SERVICES AND PROCUREMENT CANADA**

Drawing title/Titre du dessin  
**KM 355.02 CULVERT PROPOSED CHANNEL CROSS SECTIONS**

Project No./No. du projet <b>R.115075.003</b>	Sheet/Feuille <b>C2212</b>	Revision no./La Révision no. <b>0</b>
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