Appendix B -Concrete Culvert Shop Drawings

	PART LIST							
ITEM	QTY	JOB NUMBER	PART NUMBER	MASS				
1	18		2134 x 1219 x 2438	9591.756 kg				
2	3		2134 x 1219 x 1700	6679.723 kg				
3	3		2134 x 1219 x 1550	6087.846 kg				
4	96		7.5T x 120mm Lifting Insert	0.720 kg				
5	27		TSS Gasket					

Notes:

REV

А

В

С

- 1. 2.134 x 1.219 x 53.634 lm Box culvert to be built as shown.
- 2. Unit designed to withstand HS20 live loading. Designed for 0.7 1.2 m depth of cover.
- 3. Box dimensions and specifications to be in accordance with ASTM C1433M.
- 4. All reinforcing has a minimum of 25.4 mm of concrete cover.
- 5. Unit c/w lifting insert as required. Starcon style min. 7.5T/120 mm lifting inserts to be used.
- Note: Sling angle to the vertical no more than 15°.
- 6. Minimum concrete strength: 35 MPa.
- 7. Minimum rebar yield strength: 400 MPa.(Steel grade: CSA G30.18-400 weldable)
- 8. Minimum WWF yield strength: 485 MPa.
- 9. Installation & backfilling is the responsibility of others. For more details see ASTM C1675.
- 10. Boxes supplied with TSS Gasketed Joint for water & Silt tight. For more details see ASTM C1677.
- 11. Apply Adeka P-201 Hydrophilic waterstop or an approved equivalent to the secondary pour as necessary.
- 12. All dimensions are in millimeters unless otherwise specified.

By accepting and returning an approved shop drawing provided by the Langley Concrete Group for a specific product or project, DRAWING REVIEW

the responsibility for the final product manufactured and provided in accordance with the drawings shall be borne by the customer. The Langley Concrete Group bears no responsibility, financial or otherwise, for errors in the finished product received unless proven it differs from the approved shop drawing. Langley Concrete Group responsibility is limited to the structural design and fabrication of the product to required engineering and relevant specifications related to the product and/or project.

REVISION HISTORY

DESCRIPTION

Adjusted the Length

Updated the Depth of Cover

Removed the Baffle

Reviewed Exceptions Noted
Revise and Resubmit Rejected - see remarks This review is for general conformance to the design intent only. It does not in any way relieve the Contractor of responsibility for its accuracy or for compliance with the Contract Documents Submission No. 3 Project No. 33527 By cbruggeman Date 05/26/2025

> ISL Engineering and Land Services



The LANGLEY CONCRETE Group of Companies

www.langleyconcretegroup.com LANGLEY (604) 533-1656 DUNCAN (250) 478-9581 CHILLIWACK 1-800 667-9600

DESCRIPTION:

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Isometric View

This drawing is the property of the

angley Concrete Group of Companies.

All information contained herein

is confidential and may not

be used in whole or in part without

written permission from the owner

2.1 x 1.2 x 53.634 lm Box Cu South Culvert City Of Coquitlam

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Quality Assurance of products manufactured by The Langley Concrete Group has been verified by the following third party certification programs

DRAWN BY

SRA

SRA

SRA

Langley Concrete Group is a certified Q-Cast

Plant, an American Concrete Pipe Association

Third Party Certification for the manufacture of Pipe, Manhole, Box Culvert & Precast Items.

CAST	Unless otherwise Stated
cwbcertification	Projection Method: THIRD ANGLE

DATE

25-Apr-25

01-May-25

21-May-25

ACPA CERTIFIED

PLANT

CHECKED BY

SR

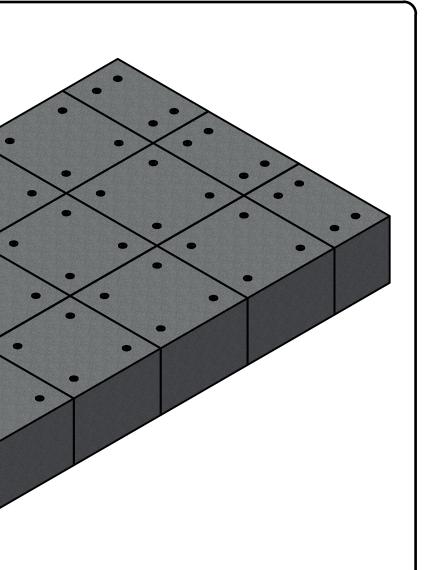
SR

MP

Millimeters.

All Dimensions are in





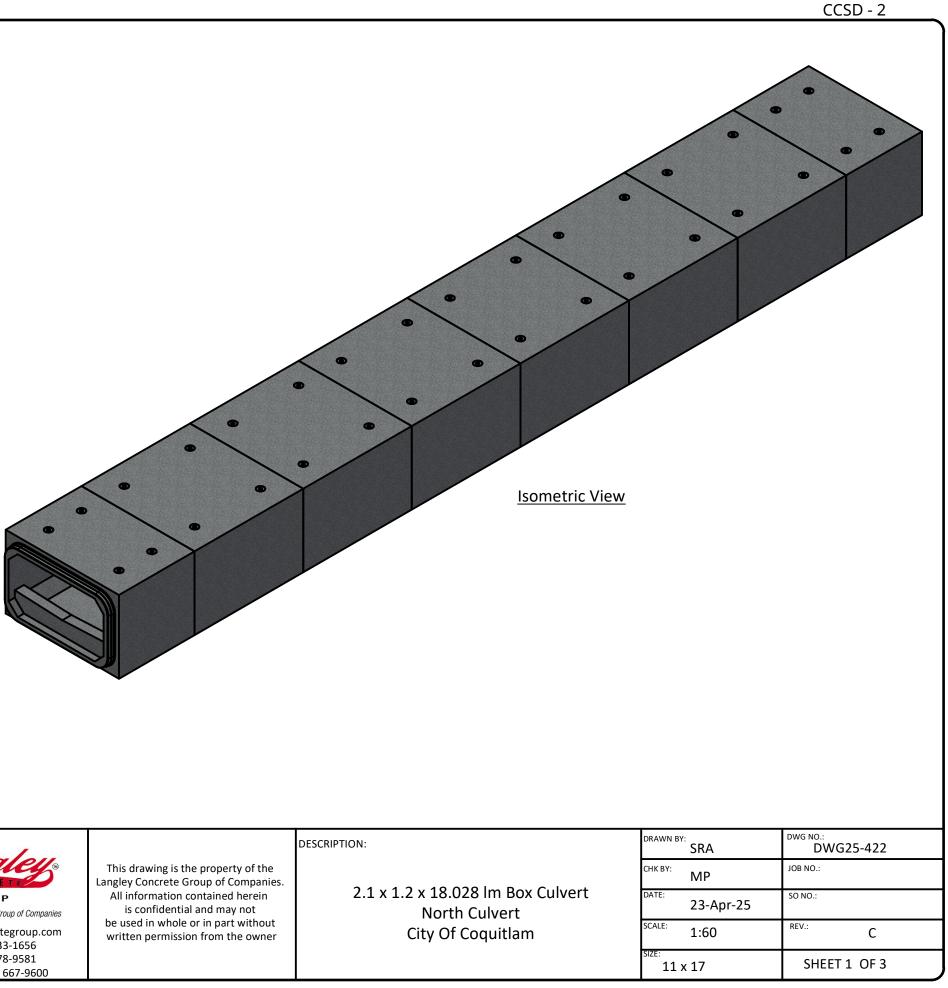
	DRAWN BY:	SRA	DWG NO.: DWG25-421
	СНК ВҮ:	MP	JOB NO.:
ulvert	DATE:	22-Apr-25	SO NO.:
	SCALE:	1:75	^{REV.:} C
	SIZE: 11 x	17	SHEET 1 OF 2

	PART LIST							
ITEM	QTY	JOB NUMBER	PART NUMBER	MASS				
1	6		2134 x 1219 x 2438	9591.756 kg				
2	1		2134 x 1219 x 1700 With Baffle	7004.455 kg				
3	1		2134 x 1219 x 1700 With Baffle	7004.154 kg				
4	32		7.5T x 120mm Lifting Insert	0.720 kg				
5	8		TSS Gasket					

Notes:

- 1. 2.134 x 1.219 x 18.028 lm Box culvert to be built as shown.
- 2. Unit designed to withstand HS20 live loading.Designed for 0.7 1.2 m depth of cover.
- 3. Box dimensions and specifications to be in accordance with ASTM C1433M.
- 4. All reinforcing has a minimum of 25.4 mm of concrete cover.
- 5. Unit c/w lifting insert as required. Starcon style min. 7.5T/140 mm lifting inserts to be used. Note: Sling angle to the vertical no more than 15°.
- 6. Minimum concrete strength: 35 MPa.
- 7. Minimum rebar yield strength: 400 MPa.(Steel grade: CSA G30.18-400 weldable)
- 8. Minimum WWF yield strength: 485 MPa.
- 9. Installation & backfilling is the responsibility of others. For more details see ASTM C1675.
- 10. Boxes supplied with TSS Gasketed Joint for water & Silt tight. For more details see ASTM C1677.
- 11. Apply Adeka P-201 Hydrophilic waterstop or an approved equivalent to the secondary pour as necessary.
- 12. All dimensions are in millimeters unless otherwise specified.

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	REVISION HISTORY							
REV	DRAWN BY	DESCRIPTION	DATE	CHECKED BY				
А	SRA	Adjusted the Length	25-Apr-25	SR				
В	SRA	Updated the Depth of Cover	01-May-25	SR				
С	SRA	Revised the Table	23-May-25	SR				
Plant, an Third Pai	Langley Concrete Group is a certified Q-Cast Plant, an American Concrete Pipe Association Third Party Certification for the manufacture of Pipe, Manhole, Box Culvert & Precast Items.		ACPA CERTIFIED PLANT CAST	Millimeters.	All Dimensions are in Millimeters. Jnless otherwise Stated		This drawing is the property of the Langley Concrete Group of Companies. All information contained herein	DESCRIPTION: 2.1 x 1.2 x 18.028 lm Box Culv North Culvert City Of Coquitlam
manufac Concrete by the fo	Quality Assurance of products manufactured by The Langley Concrete Group has been verified by the following third party certification programs		nufactured by The Langley Increte Group has been verified the following third party]	The LANGLEY CONCRETE Group of Companies www.langleyconcretegroup.com LANGLEY (604) 533-1656 DUNCAN (250) 478-9581 CHILLIWACK 1-800 667-9600	is confidential and may not be used in whole or in part without written permission from the owner	

	PART LIST							
ITEM	QTY	JOB NUMBER	PART NUMBER	MASS				
1	12		2134 x 914 x 2438	8852.945 kg				
2	4		2134 x 914 x 1700 With Baffle	6305.137 kg				
3	64		7.5T x 120mm Lifting Insert	0.720 kg				
4	16		TSS Gasket					

Notes:

- 1. 2.134 x 0.914 x 36.056 lm Box culvert to be built as shown.
- 2. Unit designed to withstand HS20 live loading.Designed for 0.7 1.2 m depth of cover.
- 3. Box dimensions and specifications to be in accordance with ASTM C1433M.
- 4. All reinforcing has a minimum of 25.4 mm of concrete cover.
- 5. Unit c/w lifting insert as required. Starcon style min. 7.5T/120 mm lifting inserts to be used. Note: Sling angle to the vertical no more than 15°.
- 6. Minimum concrete strength: 35 MPa.
- 7. Minimum rebar yield strength: 400 MPa.(Steel grade: CSA G30.18-400 weldable)
- 8. Minimum WWF yield strength: 485 MPa.
- 9. Installation & backfilling is the responsibility of others. For more details see ASTM C1675.
- 10. Boxes supplied with TSS Gasketed Joint for water & Silt tight. For more details see ASTM C1677.
- 11. Apply Adeka P-201 Hydrophilic waterstop or an approved equivalent to the secondary pour as necessary.
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		REVISION HISTORY			
REV	DRAWN BY	DESCRIPTION	DATE	CHECKED BY	
А	SRA	Adjusted the Length	25-Apr-25	SR	
В	SRA	Updated the Depth of Cover	01-May-25	SR	
С	SRA	Added the Note	23-May-25	SR	
Plant, an A Third Part	American Concr y Certification f	is a certified Q-Cast rete Pipe Association for the manufacture of ert & Precast Items.		All Dimensions Millimeters. Unless otherwi	

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North Culvert City Of Coquitlam

