

Manhole & Catch Basin

Standard Drawings

22 drawing sheets
Consistent 11 x 17 landscape catalog

Manhole barrels for sanitary and storm works, built to CSA A257 and ASTM C-478, with 305 mm aluminum ladder rungs in polyethylene anchor sleeves. Catch basins and perforated barrels to BC MOT specifications.



Tri-Kon Precast Products Ltd.

601 Patterson Street West
Cranbrook BC V1C 6T3

250-426-8162
info@trikonprecast.com
trikonprecast.com

DRAWING / PRODUCT NAME

Drawing catalog

DESCRIPTION

Manhole barrels for sanitary and storm works, built to CSA A257 and ASTM C-478, with 305 mm aluminum ladder rungs in polyethylene anchor sleeves. Catch basins and perforated barrels to BC MOT specifications.

APPROX. WEIGHT - SOURCE VALUES ONLY

Weights are listed on individual sheets where stated in the source.

CATALOG REFERENCE

TK-MC-COVER

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

Not applicable

SHEET

Cover

UNITS / SCALE

As noted / Do not scale

LAYOUT UPDATED ONLY

2026-10-05

1

2

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4

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7

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01

450 x 925 mm Lawn Basin

02

750 mm Catch Basin

03

750 mm Reinforced Lid

04

Catch Basin (BC MoTI SP582-02.01)

05

30 in Perforated Drywell

06

915 mm Catch Basin

07

915 mm Reinforced Lid

08

1050 mm Manhole

09

1050 mm Reinforced Lid

10

1220 mm Manhole

11

1220 mm Reinforced Lid

12

1220 mm Drywell

13

1350 mm Manhole

14

1525 mm Manhole

15

1525 mm Reinforced Lid

16

1830 mm Manhole

17

1830 mm Reinforced Lid

18

2135 mm Manhole

19

2100 mm Manhole Slab Top

20

2440 mm Manhole

21

3050 mm Manhole

22

3050 mm Manhole Barrel

TRI-KON

Precast Concrete Products

Manhole & Catch Basin

Drawing directory

SHEET INDEX

PRODUCT REFERENCE / DO NOT SCALE

Drawing directory

Select a sheet to open its drawing. Original technical content and source units are retained.

01

450 x 925 mm Lawn Basin

02

750 mm Catch Basin

03

750 mm Reinforced Lid

04

Catch Basin (BC MoTI SP582-02.01)

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30 in Perforated Drywell

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915 mm Catch Basin

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1050 mm Manhole

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3050 mm Manhole

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3050 mm Manhole Barrel

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DRAWING / PRODUCT NAME

Drawing directory

DESCRIPTION

Manhole barrels for sanitary and storm works, built to CSA A257 and ASTM C-478, with 305 mm aluminum ladder rungs in polyethylene anchor sleeves. Catch basins and perforated barrels to BC MOT specifications.

APPROX. WEIGHT - SOURCE VALUES ONLY

Weights are listed on individual sheets where stated in the source.

CATALOG REFERENCE

TK-MC-INDEX

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

Not applicable

SHEET

Index / 22 drawings

UNITS / SCALE

As noted / Do not scale

LAYOUT UPDATED ONLY

2026-10-05

Technical content unchanged. Confirm specifications and handling weights with Tri-Kon. Project examples are not standard designs. Document layout: Built by Vision (BBV).

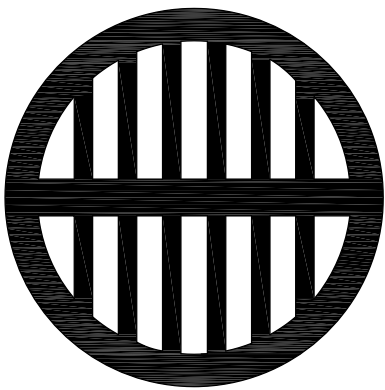
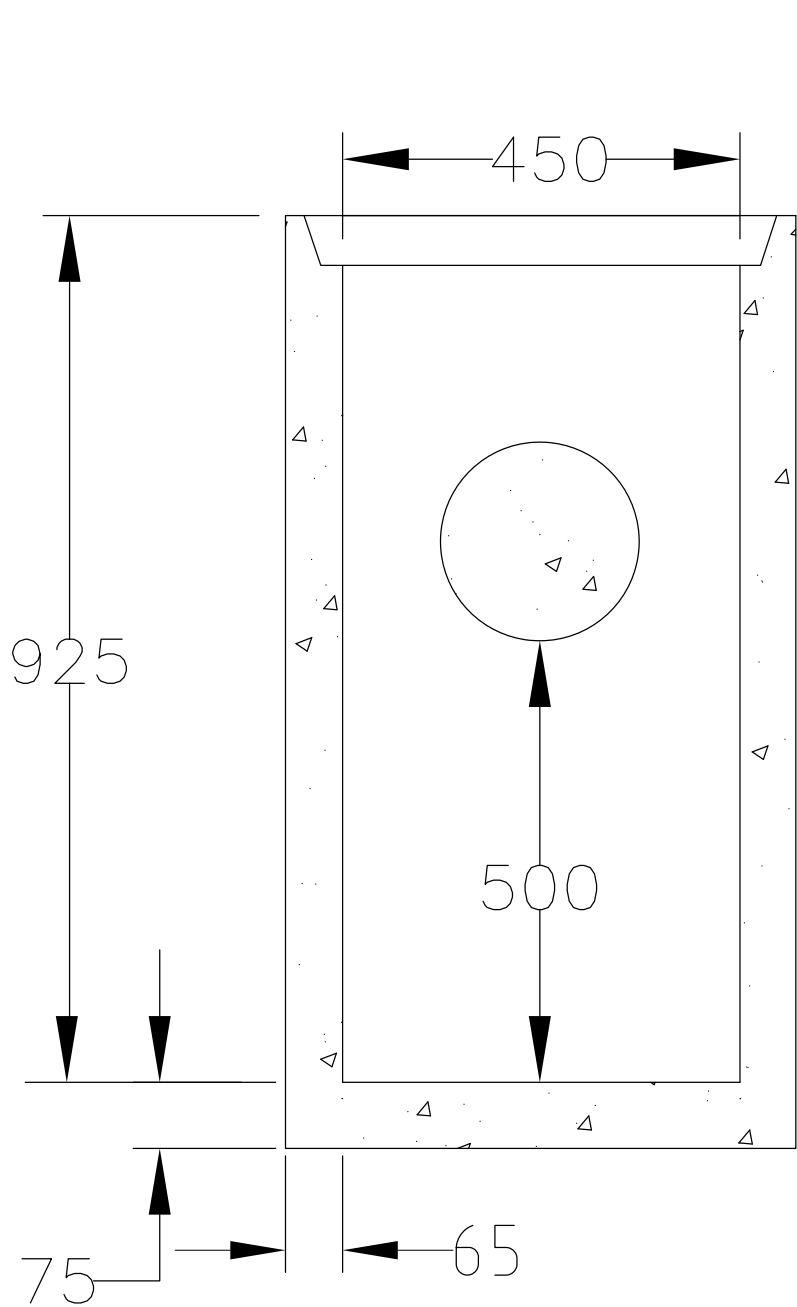


Manhole & Catch Basin

450 x 925 mm Lawn Basin

TRI-KON SOURCE

PRODUCT REFERENCE / DO NOT SCALE



TR27 Cast Iron Grate

- Notes:
- 1. Lawn Basin is used in non-traffic or occasional load use.
 - 2. Supplied with $\varnothing 254$ recessed core.
 - 3. Lawn Basin accepts TR27 grates.
 - 4. Approx. weight: 630 lbs.
 - 5. Conforms to ASTM C478
 - 6. All dimensions are in millimeters.

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DRAWING / PRODUCT NAME

450 x 925 mm Lawn Basin

DESCRIPTION

Manhole barrels for sanitary and storm works, built to CSA A257 and ASTM C-478, with 305 mm aluminum ladder rungs in polyethylene anchor sleeves. Catch basins and perforated barrels to BC MOT specifications.

APPROX. WEIGHT - SOURCE VALUES ONLY

630 lbs (source approximate weight)

CATALOG REFERENCE

TK-MC-001

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

As recorded in original

SHEET

01 / 22

UNITS / SCALE

As noted / Do not scale

LAYOUT UPDATED ONLY

2026-10-05

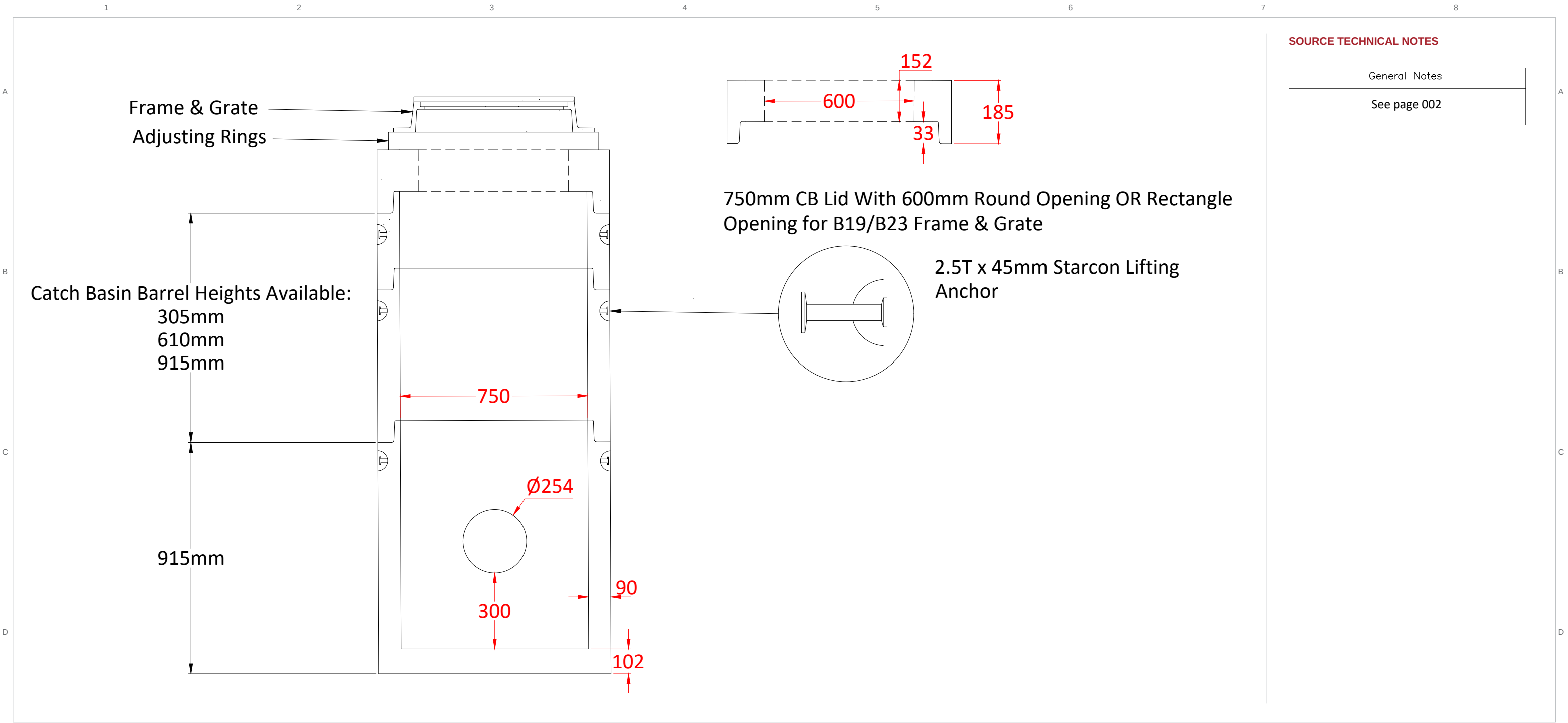


Manhole & Catch Basin

750 mm Catch Basin

TRI-KON SOURCE

PRODUCT REFERENCE / DO NOT SCALE



SOURCE TECHNICAL NOTES

General Notes

See page 002

Tri-Kon Precast Products Ltd.

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DRAWING / PRODUCT NAME

750 mm Catch Basin

DESCRIPTION

Manhole barrels for sanitary and storm works, built to CSA A257 and ASTM C-478, with 305 mm aluminum ladder rungs in polyethylene anchor sleeves. Catch basins and perforated barrels to BC MOT specifications.

APPROX. WEIGHT - SOURCE VALUES ONLY

See drawing / confirm with Tri-Kon; no weight estimated.

CATALOG REFERENCE

TK-MC-002

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

11-20-2023

SHEET

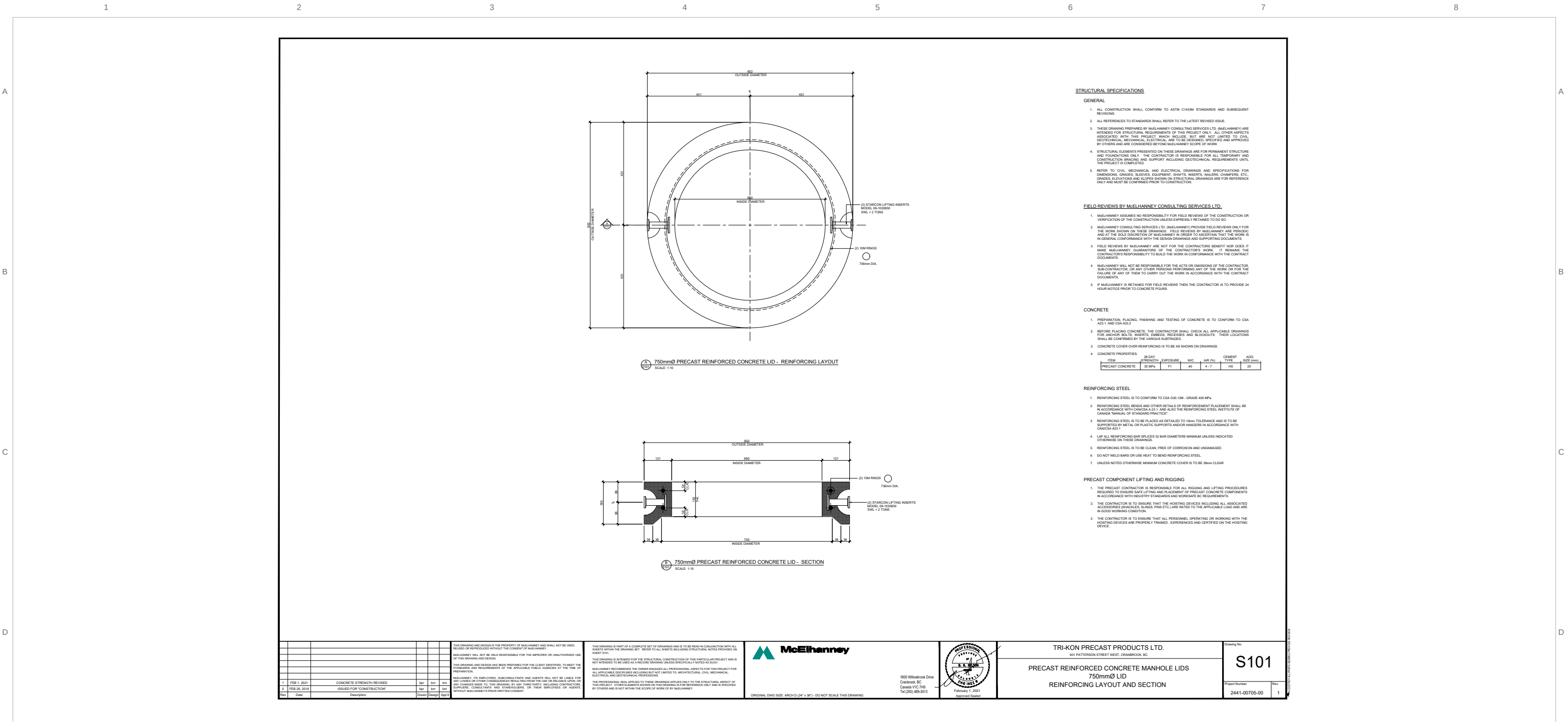
02 / 22

UNITS / SCALE

As noted / Do not scale

LAYOUT UPDATED ONLY

2026-10-05



Tri-Kon Precast Products Ltd.

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DRAWING / PRODUCT NAME

750 mm Reinforced Lid

DESCRIPTION

Original reference: 750 mm Reinforced Lid. Technical notes and source identification are preserved.

APPROX. WEIGHT - SOURCE VALUES ONLY

See drawing / confirm with Tri-Kon; no weight estimated.

CATALOG REFERENCE

TK-MC-003

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

FEB 1, 2021

SHEET

03 / 22

UNITS / SCALE

As noted / Do not scale

LAYOUT UPDATED ONLY

2026-10-05



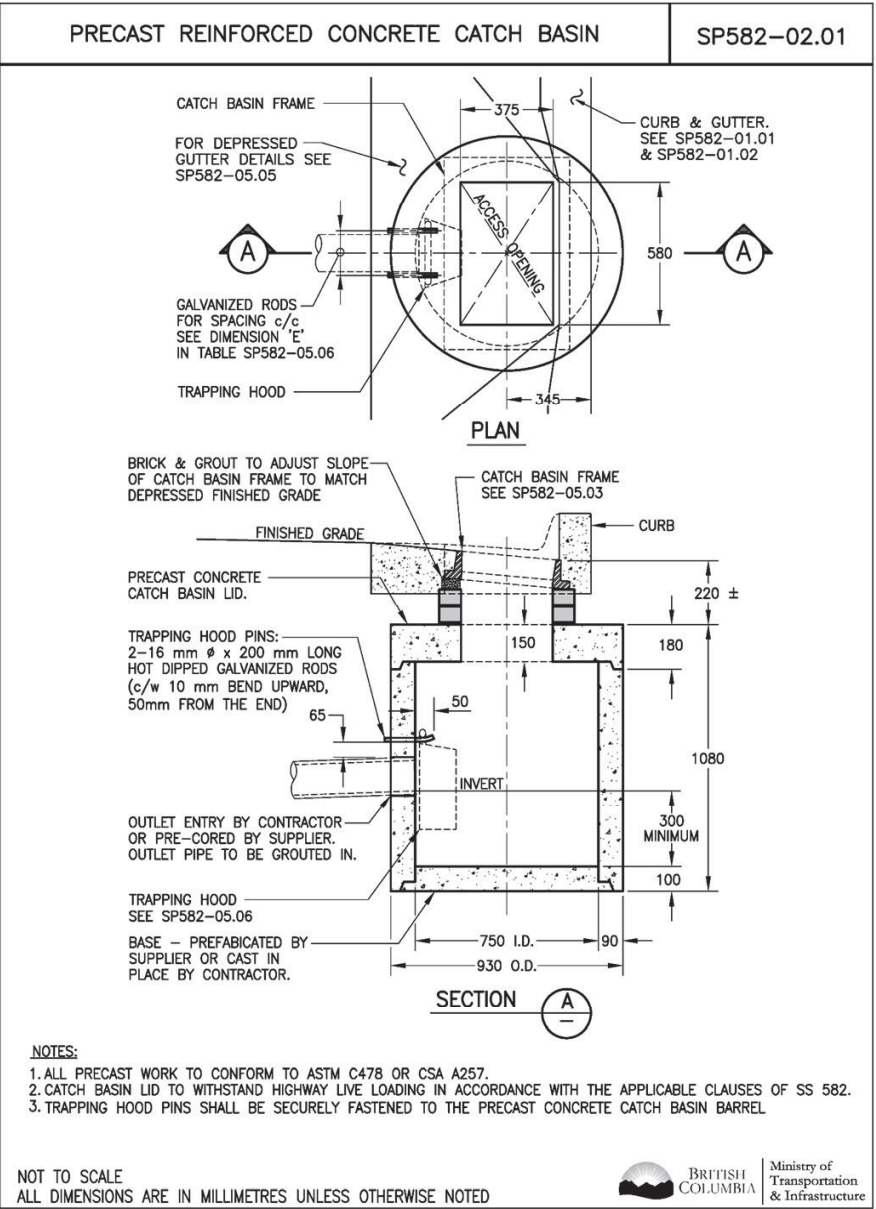
Manhole & Catch Basin

Catch Basin (BC MoTI SP582-02.01)

BC MOT REFERENCE

PRODUCT REFERENCE / DO NOT SCALE

SECTION 582 CONCRETE CURB AND GUTTER AND STORM DRAINAGE



BC MoTI SS 2020 582 (11 of 38)
Vol. 1 Page 440 of 470

Tri-Kon Precast Products Ltd.

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DRAWING / PRODUCT NAME

Catch Basin (BC MoTI SP582-02.01)

DESCRIPTION

Original reference: Catch Basin (BC MoTI SP582-02.01). Technical notes and source identification are preserved.

APPROX. WEIGHT - SOURCE VALUES ONLY

See drawing / confirm with Tri-Kon; no weight estimated.

CATALOG REFERENCE

TK-MC-004

SHEET

04 / 22

SHEET FORMAT

11 x 17 in / Landscape

UNITS / SCALE

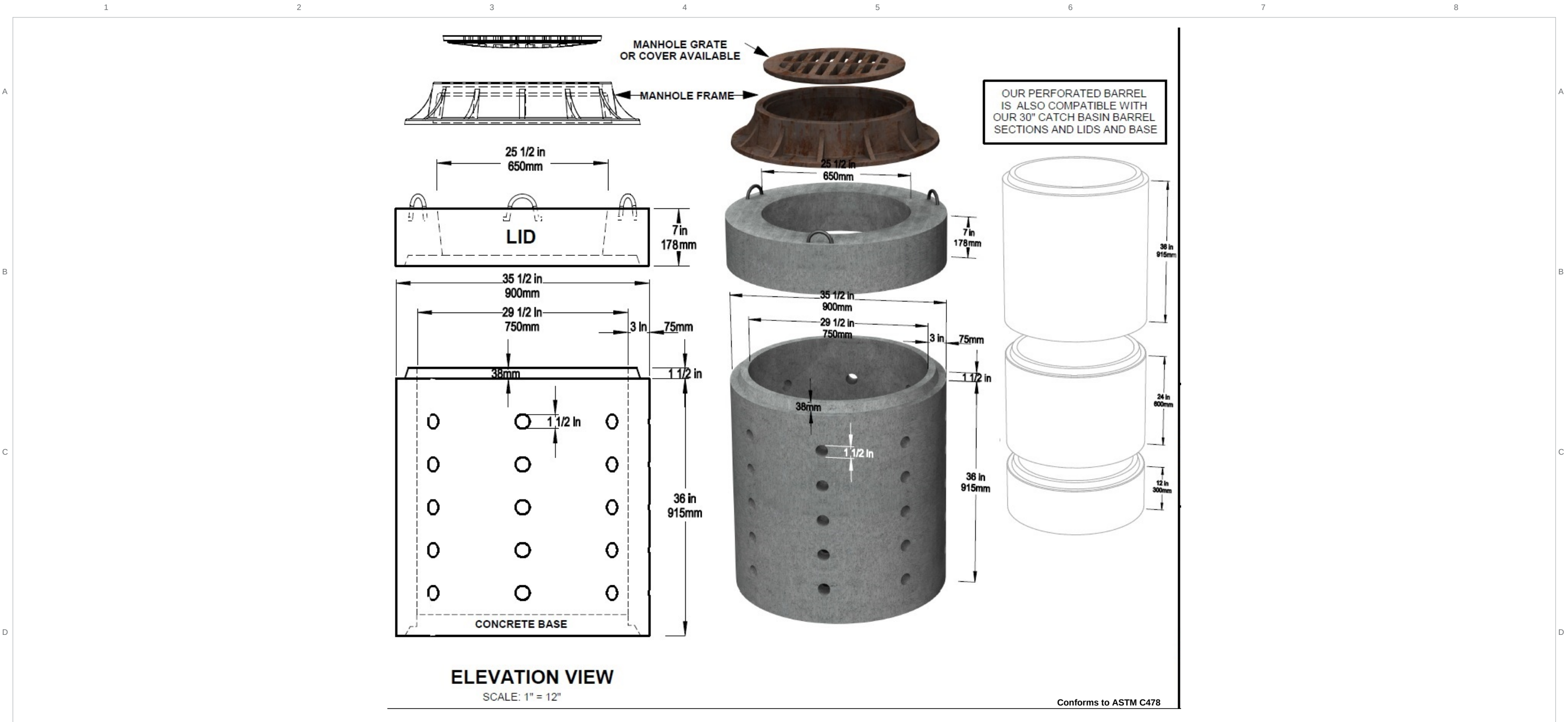
As noted / Do not scale

ORIGINAL SOURCE DATE

As recorded in original

LAYOUT UPDATED ONLY

2026-10-05



Tri-Kon Precast Products Ltd.

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DRAWING / PRODUCT NAME

30 in Perforated Drywell

DESCRIPTION

Manhole barrels for sanitary and storm works, built to CSA A257 and ASTM C-478, with 305 mm aluminum ladder rungs in polyethylene anchor sleeves. Catch basins and perforated barrels to BC MOT specifications.

APPROX. WEIGHT - SOURCE VALUES ONLY

See drawing / confirm with Tri-Kon; no weight estimated.

CATALOG REFERENCE

TK-MC-005

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

As recorded in original

SHEET

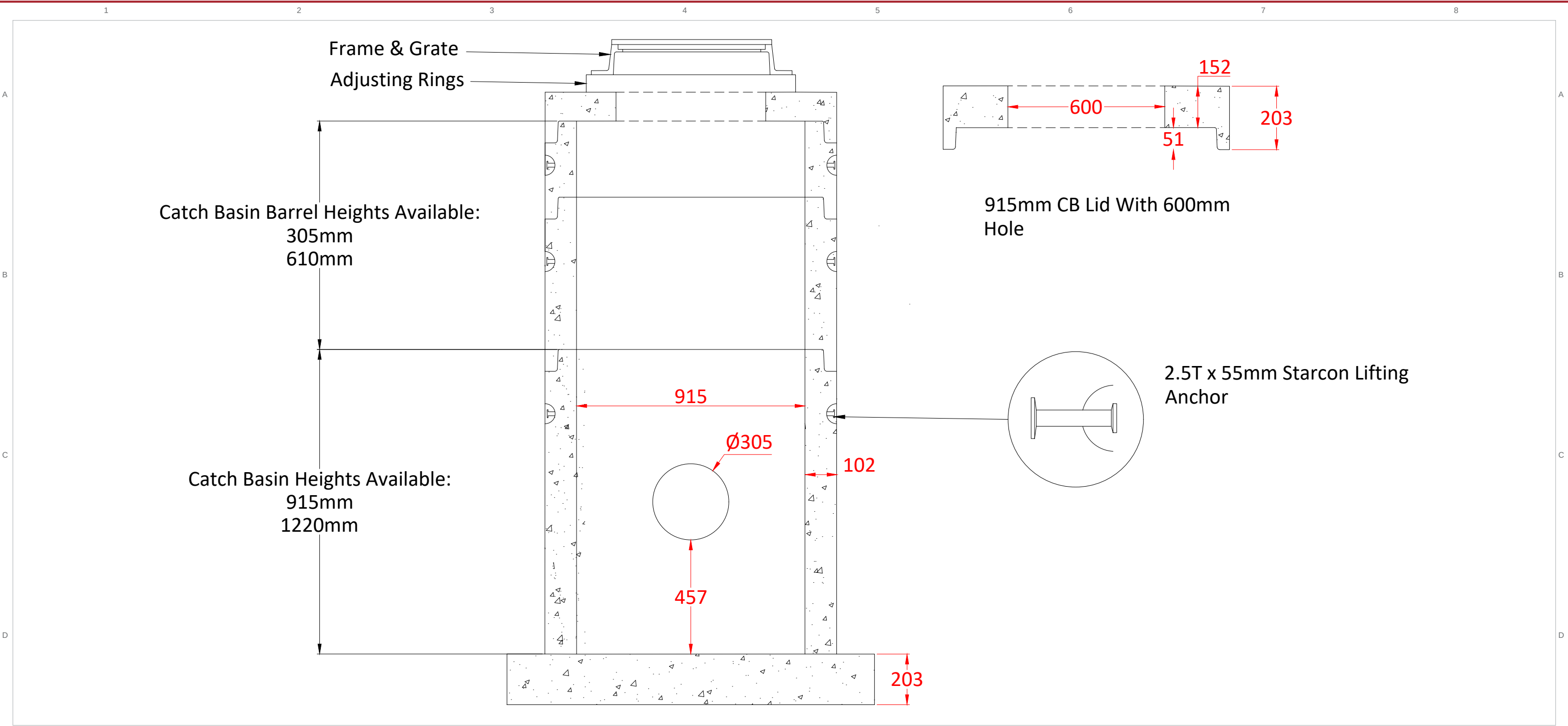
05 / 22

UNITS / SCALE

As noted / Do not scale

LAYOUT UPDATED ONLY

2026-10-05



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DRAWING / PRODUCT NAME

915 mm Catch Basin

DESCRIPTION

Manhole barrels for sanitary and storm works, built to CSA A257 and ASTM C-478, with 305 mm aluminum ladder rungs in polyethylene anchor sleeves. Catch basins and perforated barrels to BC MOT specifications.

APPROX. WEIGHT - SOURCE VALUES ONLY

See drawing / confirm with Tri-Kon; no weight estimated.

CATALOG REFERENCE

TK-MC-006

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

11-20-2023

SHEET

06 / 22

UNITS / SCALE

As noted / Do not scale

LAYOUT UPDATED ONLY

2026-10-05

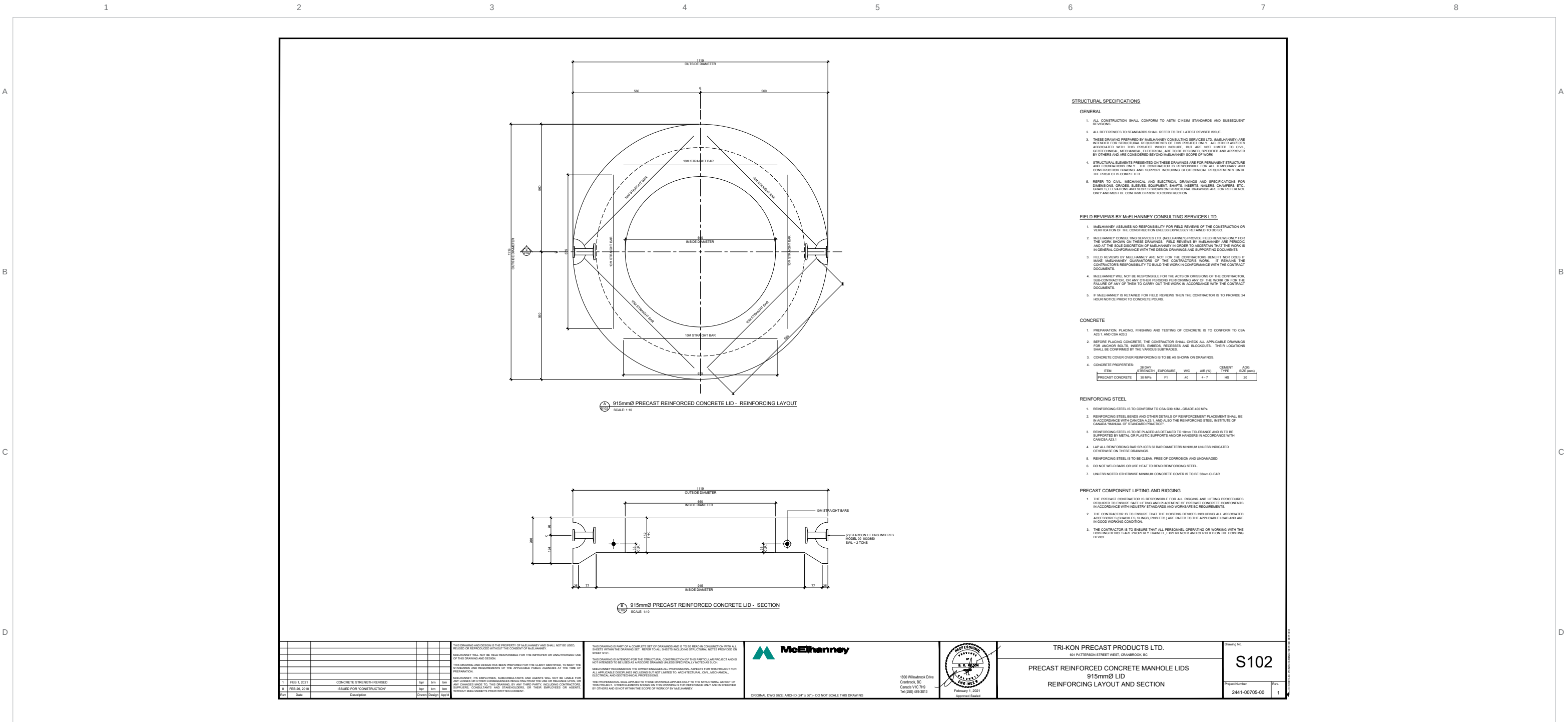


Manhole & Catch Basin

915 mm Reinforced Lid

ENGINEER REFERENCE

PRODUCT REFERENCE / DO NOT SCALE



Tri-Kon Precast Products Ltd.

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DRAWING / PRODUCT NAME

915 mm Reinforced Lid

DESCRIPTION

Original reference: 915 mm Reinforced Lid. Technical notes and source identification are preserved.

APPROX. WEIGHT - SOURCE VALUES ONLY

See drawing / confirm with Tri-Kon; no weight estimated.

CATALOG REFERENCE

TK-MC-007

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

FEB 1, 2021

SHEET

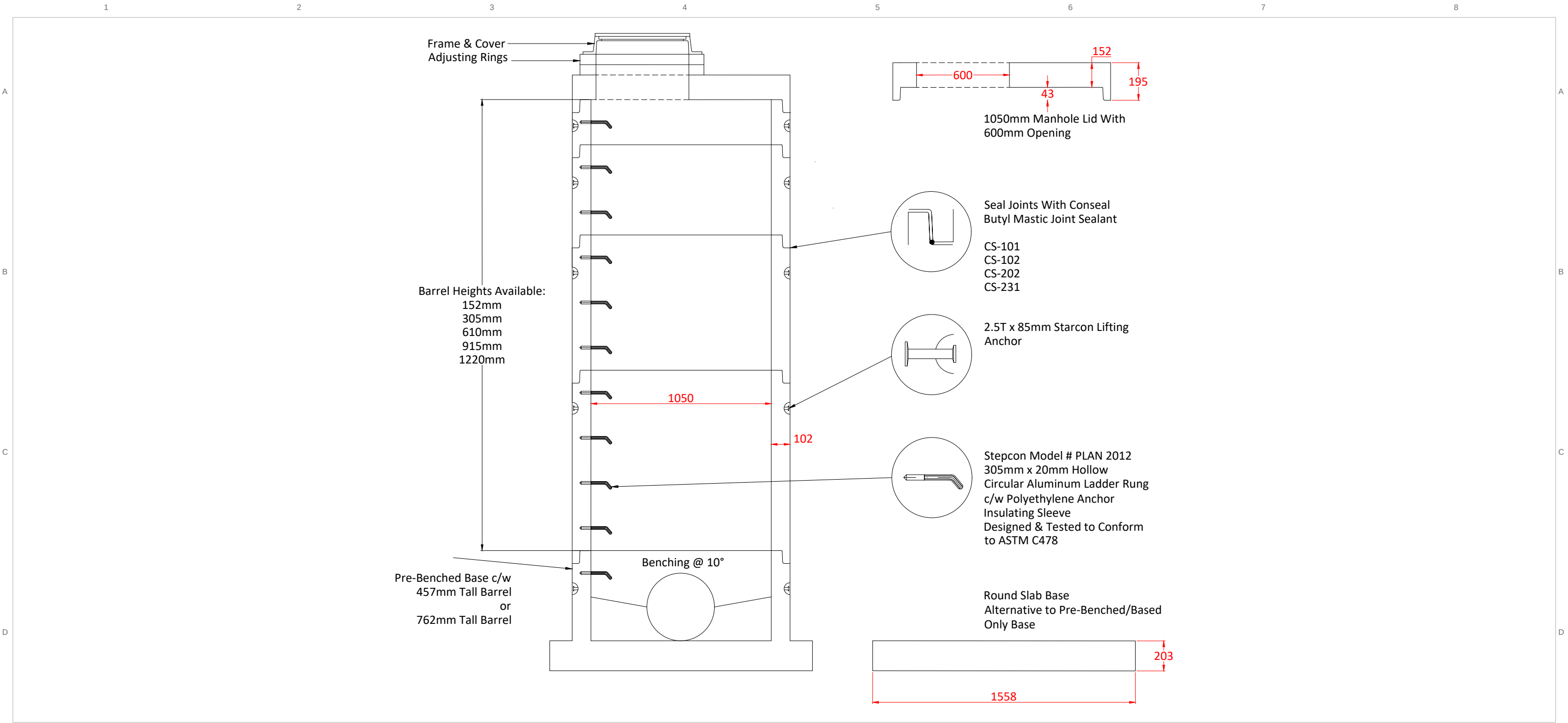
07 / 22

UNITS / SCALE

As noted / Do not scale

LAYOUT UPDATED ONLY

2026-10-05



Tri-Kon Precast Products Ltd.

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DRAWING / PRODUCT NAME

1050 mm Manhole

DESCRIPTION

Manhole barrels for sanitary and storm works, built to CSA A257 and ASTM C-478, with 305 mm aluminum ladder rungs in polyethylene anchor sleeves. Catch basins and perforated barrels to BC MOT specifications.

APPROX. WEIGHT - SOURCE VALUES ONLY

See drawing / confirm with Tri-Kon; no weight estimated.

CATALOG REFERENCE

TK-MC-008

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

11-20-2023

SHEET

08 / 22

UNITS / SCALE

As noted / Do not scale

LAYOUT UPDATED ONLY

2026-10-05

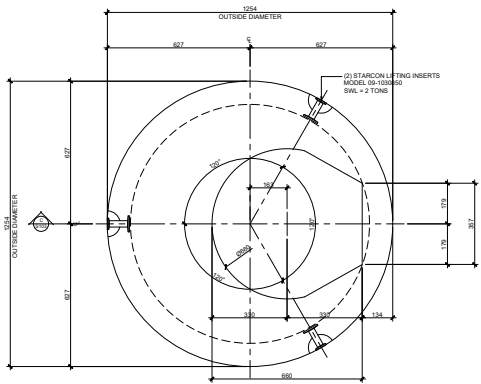


Manhole & Catch Basin

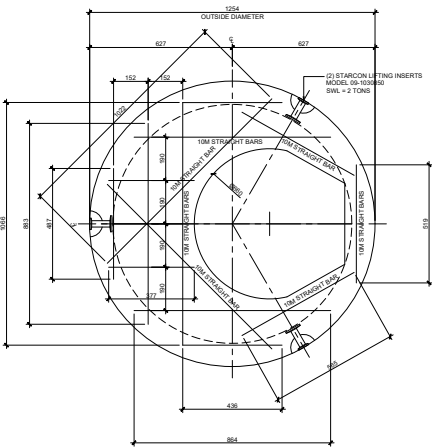
1050 mm Reinforced Lid

ENGINEER REFERENCE

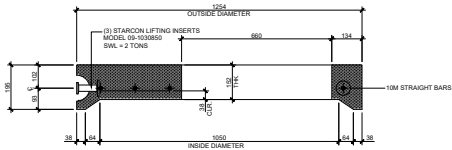
PRODUCT REFERENCE / DO NOT SCALE



1050mmØ PRECAST REINFORCED CONCRETE LID - PLAN VIEW
SCALE: 1:15



1050mmØ PRECAST REINFORCED CONCRETE LID - REINFORCING LAYOUT
SCALE: 1:10



1050mmØ PRECAST REINFORCED CONCRETE LID - SECTION
SCALE: 1:15

STRUCTURAL SPECIFICATIONS

GENERAL

1. ALL CONSTRUCTION SHALL CONFORM TO ASTM C143M STANDARDS AND SUBSEQUENT REVISIONS.
2. ALL REFERENCES TO STANDARDS SHALL REFER TO THE LATEST REVISED ISSUE.
3. THESE DRAWINGS PREPARED BY MELHANNÉY CONSULTING SERVICES LTD. (MELHANNÉY) ARE INTENDED FOR STRUCTURAL REQUIREMENTS OF THIS PROJECT ONLY. ALL OTHER ASPECTS ASSOCIATED WITH THIS PROJECT WHICH INCLUDE, BUT ARE NOT LIMITED TO, CIVIL, GEOTECHNICAL, MECHANICAL, ELECTRICAL, ARE TO BE DESIGNED, SPECIFIED AND APPROVED BY OTHERS AND ARE CONSIDERED BEYOND MELHANNÉY SCOPE OF WORK.
4. STRUCTURAL ELEMENTS PRESENTED ON THESE DRAWINGS ARE FOR PERMANENT STRUCTURE AND FOUNDATIONS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY AND CONSTRUCTION BRACING AND SUPPORT INCLUDING GEOTECHNICAL REQUIREMENTS UNTIL THE PROJECT IS COMPLETED.
5. REFER TO CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR DIMENSIONS, GRADES, VALVES, EQUIPMENT, SHAFTS, MANHOLE, MANLIDS, CHAMBERS, ETC. GRADES, ELEVATIONS AND SLOPES SHOWN ON STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY AND MUST BE CONFIRMED PRIOR TO CONSTRUCTION.

FIELD REVIEWS BY MELHANNÉY CONSULTING SERVICES LTD.

1. MELHANNÉY ASSUMES NO RESPONSIBILITY FOR FIELD REVIEWS OF THE CONSTRUCTION OR VERIFICATION OF THE CONSTRUCTION UNLESS EXPRESSLY RETAINED TO DO SO.
2. MELHANNÉY CONSULTING SERVICES LTD. (MELHANNÉY) PROVIDE FIELD REVIEWS ONLY FOR THE WORK SHOWN ON THESE DRAWINGS. FIELD REVIEWS BY MELHANNÉY ARE PERIODIC AND AT THE SOLE DISCRETION OF MELHANNÉY IN ORDER TO ASCERTAIN THAT THE WORK IS IN GENERAL CONFORMANCE WITH THE DESIGN DRAWINGS AND SUPPORTING DOCUMENTS.
3. FIELD REVIEWS BY MELHANNÉY ARE NOT FOR THE CONTRACTORS BENEFIT NOR DOES IT MAKE MELHANNÉY GUARANTORS OF THE CONTRACTORS WORK. IT REMAINS THE CONTRACTORS RESPONSIBILITY TO BUILD THE WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.
4. MELHANNÉY WILL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
5. IF MELHANNÉY IS RETAINED FOR FIELD REVIEWS THEN THE CONTRACTOR IS TO PROVIDE 24 HOUR NOTICE PRIOR TO CONCRETE POURS.

CONCRETE

1. PREPARATION, PLACING, FINISHING AND TESTING OF CONCRETE IS TO CONFORM TO CSA A01.1 AND CSA A23.1.
2. BEFORE PLACING CONCRETE, THE CONTRACTOR SHALL CHECK ALL APPLICABLE DRAWINGS FOR HOOKS, BARS, INSERTS, BARS, RECESSES AND BLOCKOUTS. THEIR LOCATIONS SHALL BE CONFIRMED BY THE VARIOUS SUBSTRATES.
3. CONCRETE COVER OVER REINFORCING IS TO BE AS SHOWN ON DRAWINGS.
4. CONCRETE PROPERTIES:

ITEM	28 DAY STRENGTH	EXPOSURE	W/C	AIR (%)	CEMENT TYPE	AGG. SIZE (mm)
PRECAST CONCRETE	30 MPa	F1	A0	4-7	HS	20

REINFORCING STEEL

1. REINFORCING STEEL IS TO CONFORM TO CSA G30.12M - GRADE 400 MPa.
2. REINFORCING STEEL BENDS AND OTHER DETAILS OF REINFORCEMENT PLACEMENT SHALL BE IN ACCORDANCE WITH CANCSA A23.1 AND ALSO THE REINFORCING STEEL INSTITUTE OF CANADA "MANUAL OF STANDARD PRACTICE".
3. REINFORCING STEEL IS TO BE PLACED AS DETAILED TO 10mm TOLERANCE AND IS TO BE SUPPORTED BY METAL OR PLASTIC SUPPORTS AND/OR HANGERS IN ACCORDANCE WITH CANCSA A23.1.
4. LAP ALL REINFORCING BAR BRACES 32 BAR DIAMETERS MINIMUM UNLESS INDICATED OTHERWISE ON THESE DRAWINGS.
5. REINFORCING STEEL IS TO BE CLEAN, FREE OF CORROSION AND UNDAMAGED.
6. DO NOT WELD BARS OR USE HEAT TO BEND REINFORCING STEEL.
7. UNLESS NOTED OTHERWISE MINIMUM CONCRETE COVER IS TO BE 38mm CLEAR.

PRECAST COMPONENT LIFTING AND RIGGING

1. THE PRECAST CONTRACTOR IS RESPONSIBLE FOR ALL RIGGING AND LIFTING PROCEDURES REQUIRED TO INSURE SAFE LIFTING AND PLACEMENT OF PRECAST CONCRETE COMPONENTS IN ACCORDANCE WITH INDUSTRY STANDARDS AND WORKSAFE BC REQUIREMENTS.
2. THE CONTRACTOR IS TO ENSURE THAT THE HOISTING DEVICES INCLUDING ALL ASSOCIATED ACCESSORIES (SHACKLES, SLINGS, PINS ETC.) ARE RATED TO THE APPLICABLE LOAD AND ARE IN GOOD WORKING CONDITION.
3. THE CONTRACTOR IS TO ENSURE THAT ALL PERSONNEL OPERATING OR WORKING WITH THE HOISTING DEVICES ARE PROPERLY TRAINED, EXPERIENCED AND CERTIFIED ON THE HOISTING DEVICE.

Rev	Date	Description	Drawn	Design	App'd
1	FEB 1, 2021	CONCRETE STRENGTH REVISED	SM	SM	SM
2	FEB 26, 2016	ISSUED FOR CONSTRUCTION	SM	SM	SM

THIS DRAWING AND DESIGN IS THE PROPERTY OF MELHANNÉY AND SHALL NOT BE USED, REPRODUCED OR REPRODUCED WITHOUT THE CONSENT OF MELHANNÉY. MELHANNÉY WILL NOT BE HELD RESPONSIBLE FOR THE IMPROPER OR UNAUTHORIZED USE OF THIS DRAWING AND DESIGN.	THIS DRAWING IS PART OF A COMPLETE SET OF DRAWINGS AND IS TO BE READ IN CONJUNCTION WITH ALL SHEETS WITHIN THE DRAWING SET. REFER TO ALL SHEETS INCLUDING STRUCTURAL NOTES PROVIDED ON SHEET S10.	THIS DRAWING IS INTENDED FOR THE STRUCTURAL CONSTRUCTION OF THIS PARTICULAR PROJECT AND IS NOT INTENDED TO BE USED AS A RECORD DRAWING UNLESS SPECIFICALLY NOTED AS SUCH.	MELHANNÉY RECOMMENDS THE OWNER ENGAGES ALL PROFESSIONAL ASPECTS FOR THIS PROJECT FOR ALL APPLICABLE DISCIPLINES INCLUDING BUT NOT LIMITED TO: ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL AND GEOTECHNICAL PROFESSIONS.
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TRI-KON PRECAST PRODUCTS LTD.
861 PATTERSON STREET WEST, CRANBROOK, BC

PRECAST REINFORCED CONCRETE MANHOLE LIDS
1050mmØ LID
PLAN VIEW, REINFORCING LAYOUT AND SECTION

Drawing No.
S103

Project Number
2441-00705-00

Rev.
1

Tri-Kon Precast Products Ltd.

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DRAWING / PRODUCT NAME

1050 mm Reinforced Lid

DESCRIPTION

Original reference: 1050 mm Reinforced Lid. Technical notes and source identification are preserved.

APPROX. WEIGHT - SOURCE VALUES ONLY

See drawing / confirm with Tri-Kon; no weight estimated.

CATALOG REFERENCE

TK-MC-009

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

FEB 1, 2021

SHEET

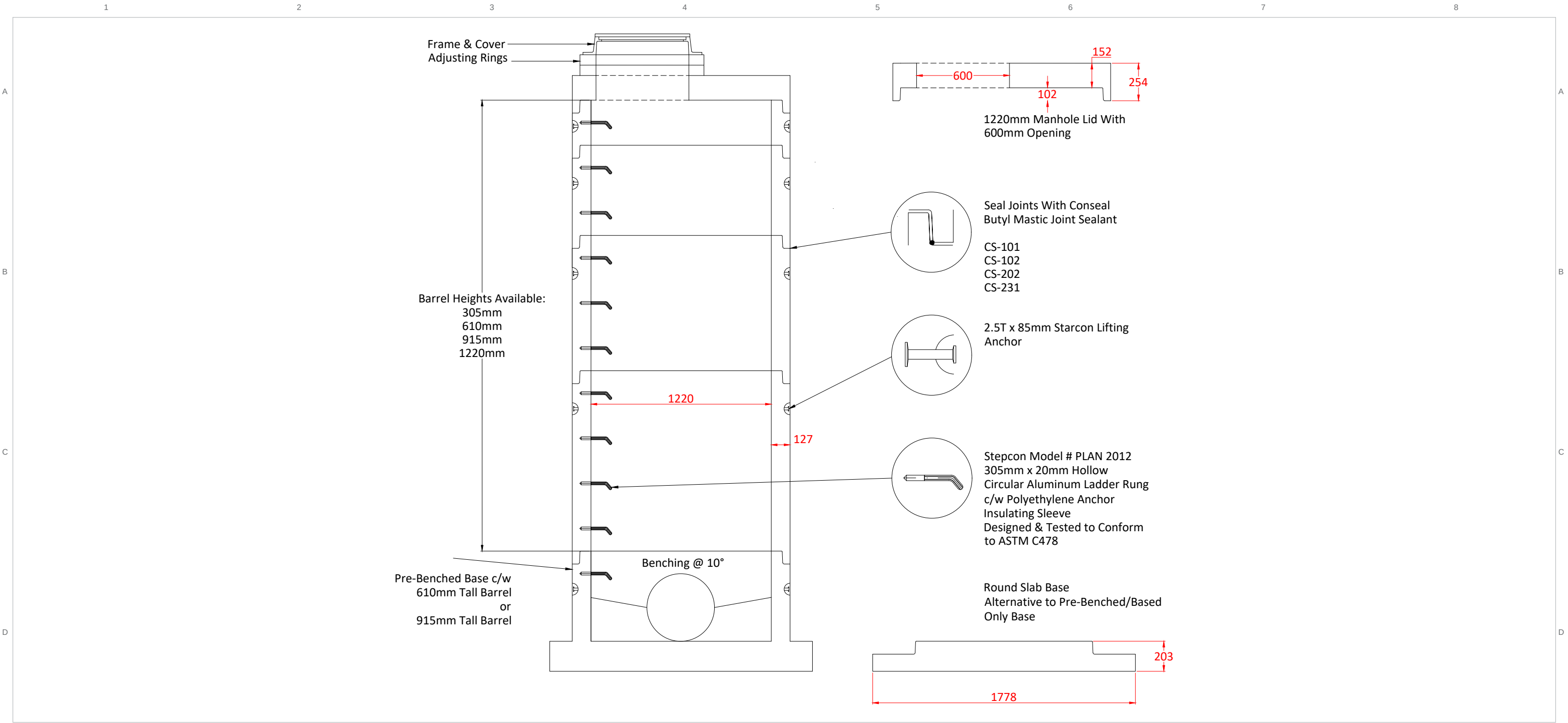
09 / 22

UNITS / SCALE

As noted / Do not scale

LAYOUT UPDATED ONLY

2026-10-05



Tri-Kon Precast Products Ltd.

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DRAWING / PRODUCT NAME

1220 mm Manhole

DESCRIPTION

Manhole barrels for sanitary and storm works, built to CSA A257 and ASTM C-478, with 305 mm aluminum ladder rungs in polyethylene anchor sleeves. Catch basins and perforated barrels to BC MOT specifications.

APPROX. WEIGHT - SOURCE VALUES ONLY

See drawing / confirm with Tri-Kon; no weight estimated.

CATALOG REFERENCE

TK-MC-010

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

11-20-2023

SHEET

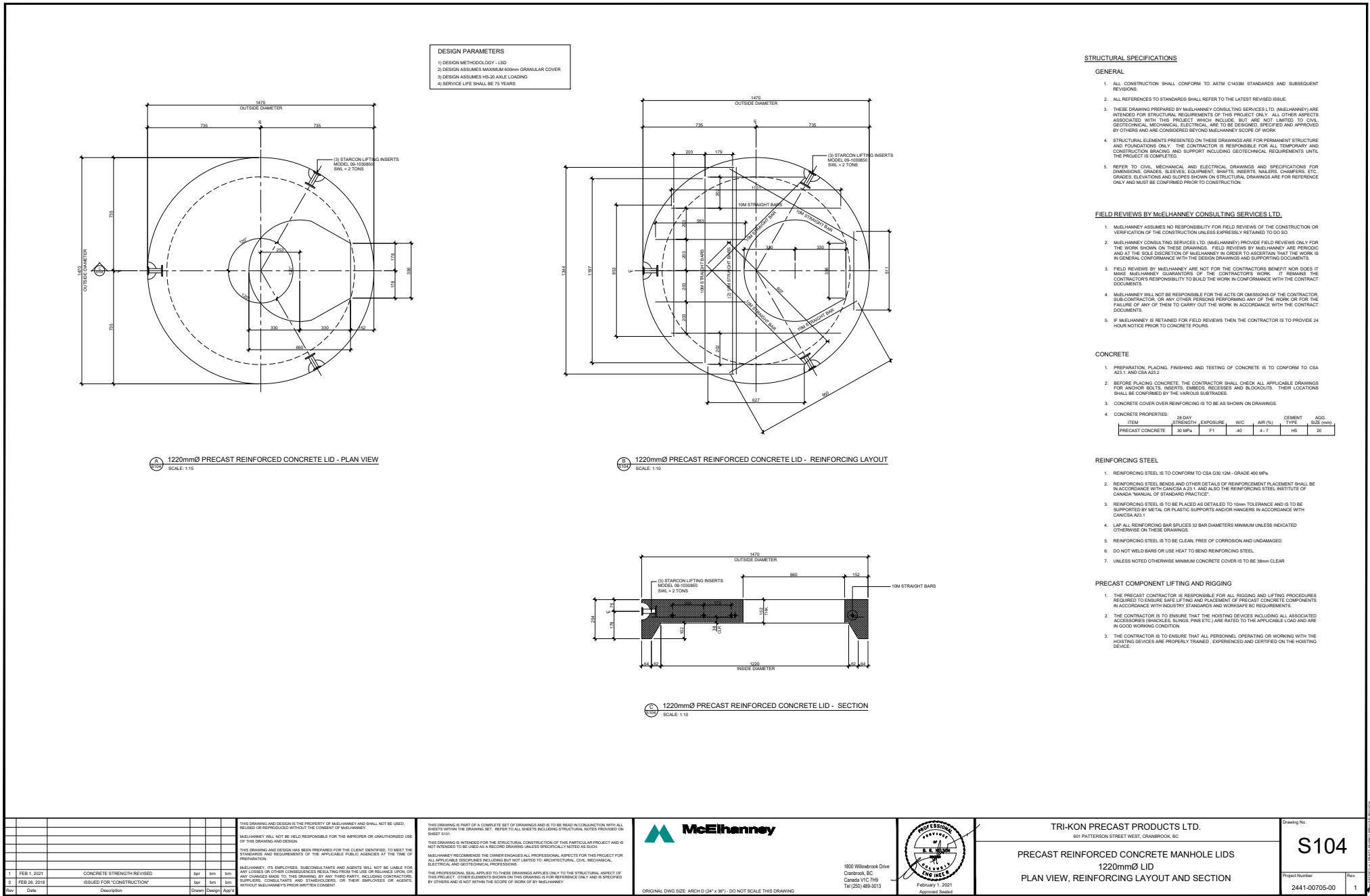
10 / 22

UNITS / SCALE

As noted / Do not scale

LAYOUT UPDATED ONLY

2026-10-05



Tri-Kon Precast Products Ltd.

601 Patterson Street West
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DRAWING / PRODUCT NAME

1220 mm Reinforced Lid

DESCRIPTION

Original reference: 1220 mm Reinforced Lid. Technical notes and source identification are preserved.

APPROX. WEIGHT - SOURCE VALUES ONLY

See drawing / confirm with Tri-Kon; no weight estimated.

CATALOG REFERENCE

TK-MC-011

SHEET

11 / 22

SHEET FORMAT

11 x 17 in / Landscape

UNITS / SCALE

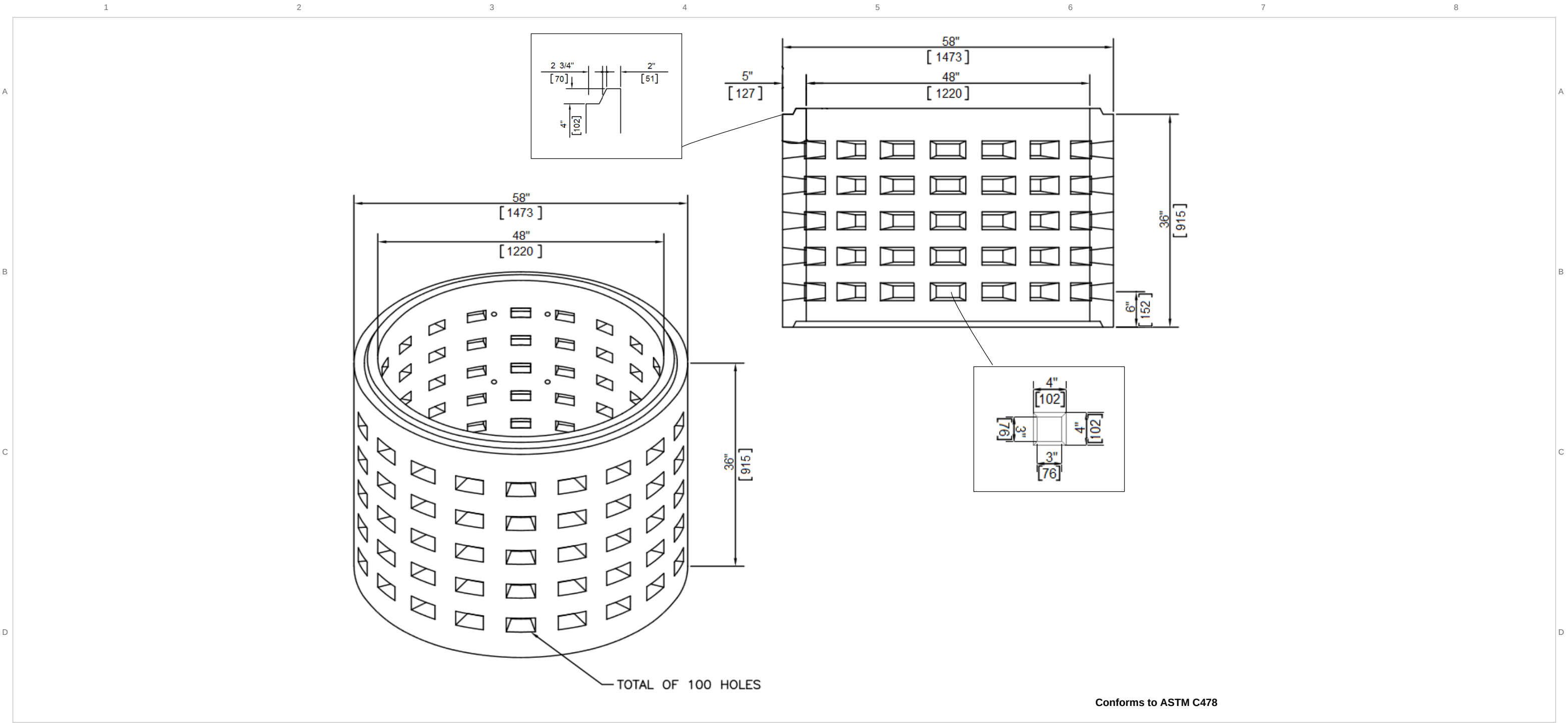
As noted / Do not scale

ORIGINAL SOURCE DATE

FEB 1, 2021

LAYOUT UPDATED ONLY

2026-10-05



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DRAWING / PRODUCT NAME

1220 mm Drywell

DESCRIPTION

Manhole barrels for sanitary and storm works, built to CSA A257 and ASTM C-478, with 305 mm aluminum ladder rungs in polyethylene anchor sleeves. Catch basins and perforated barrels to BC MOT specifications.

APPROX. WEIGHT - SOURCE VALUES ONLY

See drawing / confirm with Tri-Kon; no weight estimated.

CATALOG REFERENCE

TK-MC-012

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

AUGUST 23, 2013

SHEET

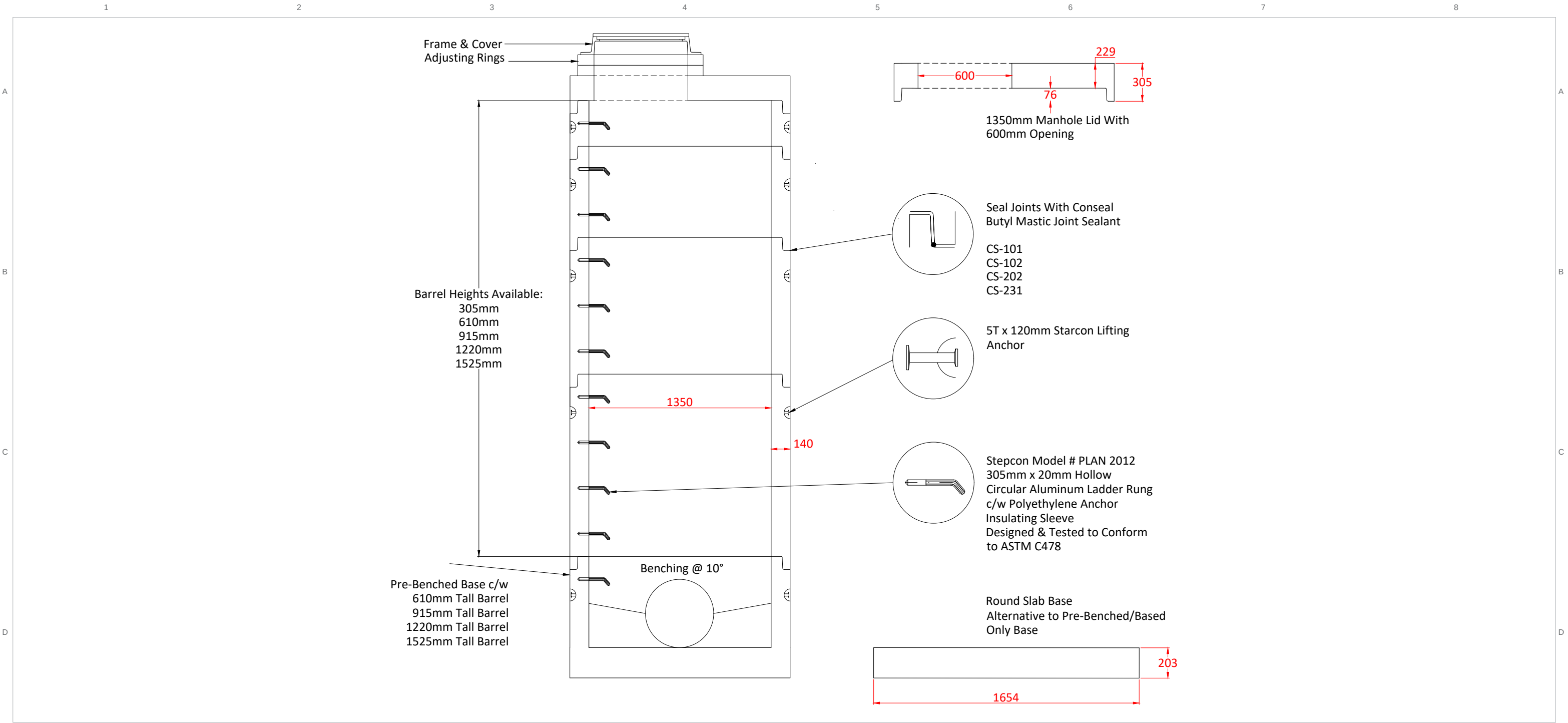
12 / 22

UNITS / SCALE

As noted / Do not scale

LAYOUT UPDATED ONLY

2026-10-05



Tri-Kon Precast Products Ltd.

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DRAWING / PRODUCT NAME

1350 mm Manhole

DESCRIPTION

Manhole barrels for sanitary and storm works, built to CSA A257 and ASTM C-478, with 305 mm aluminum ladder rungs in polyethylene anchor sleeves. Catch basins and perforated barrels to BC MOT specifications.

APPROX. WEIGHT - SOURCE VALUES ONLY

See drawing / confirm with Tri-Kon; no weight estimated.

CATALOG REFERENCE

TK-MC-013

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

11-20-2023

SHEET

13 / 22

UNITS / SCALE

As noted / Do not scale

LAYOUT UPDATED ONLY

2026-10-05

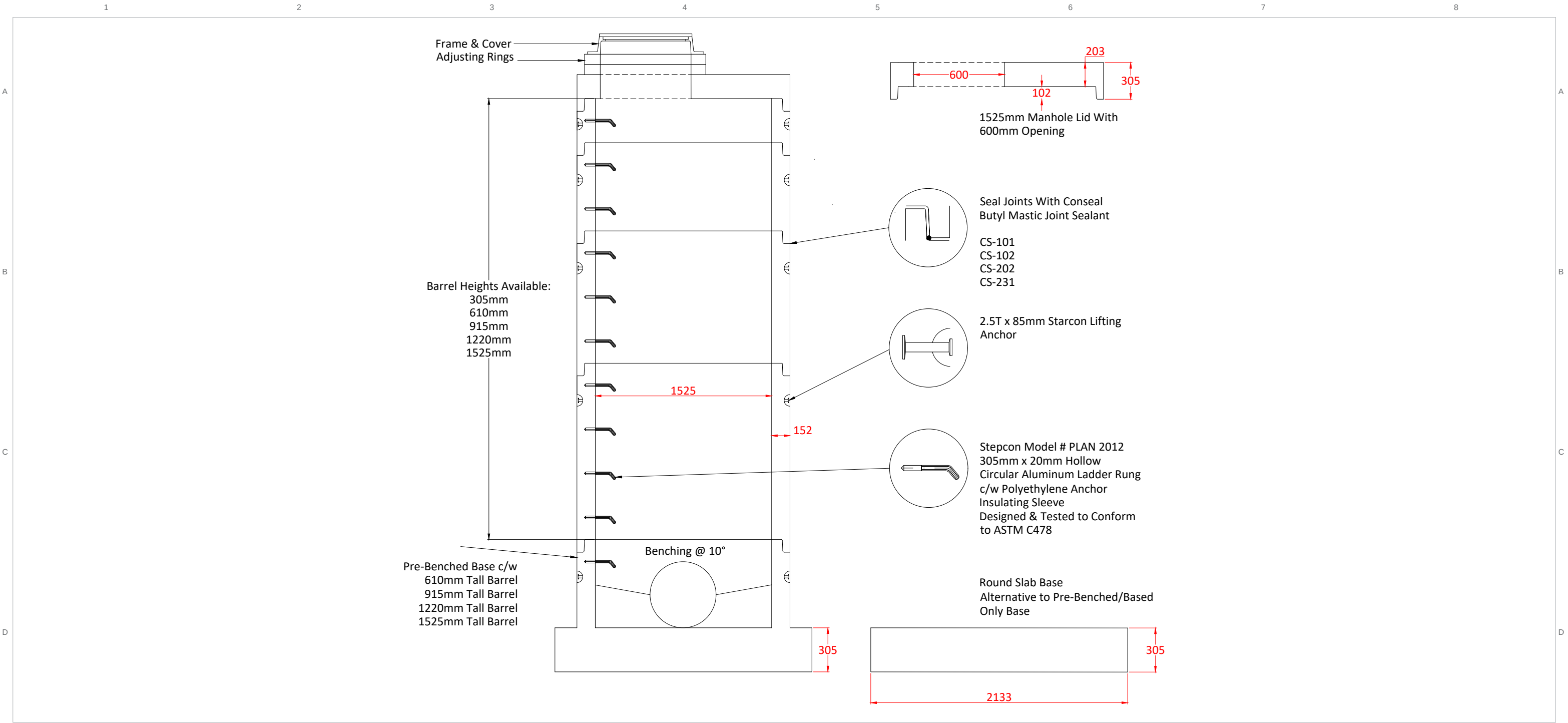


Manhole & Catch Basin

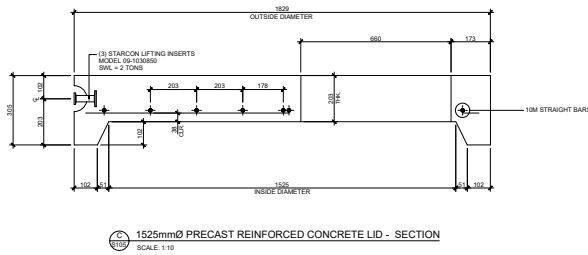
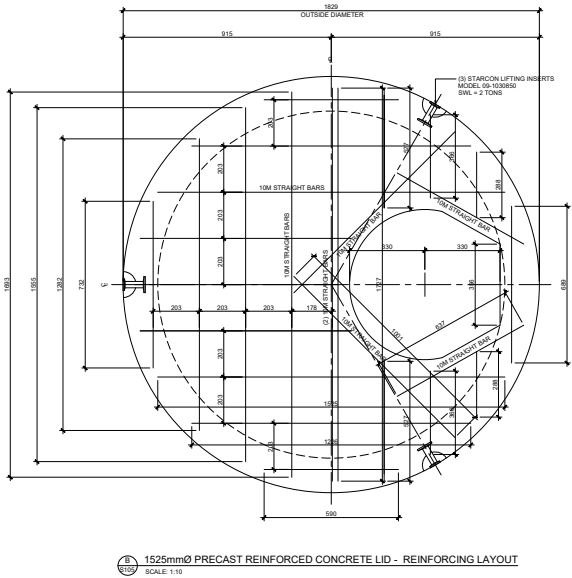
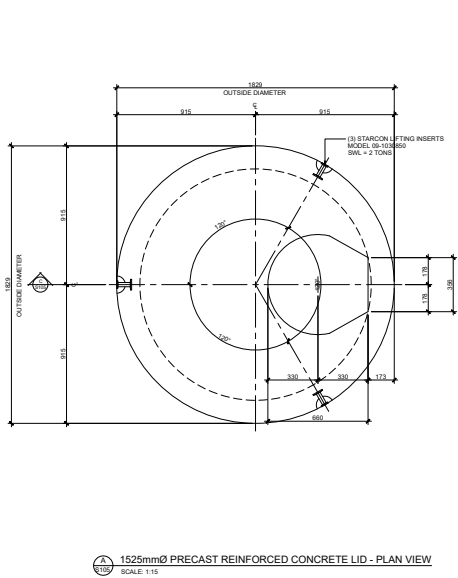
1525 mm Manhole

TRI-KON SOURCE

PRODUCT REFERENCE / DO NOT SCALE



Tri-Kon Precast Products Ltd. 601 Patterson Street West Cranbrook BC V1C 6T3 250-426-8162 info@trikonprecast.com trikonprecast.com	DRAWING / PRODUCT NAME 1525 mm Manhole	CATALOG REFERENCE TK-MC-014	SHEET 14 / 22
	DESCRIPTION Manhole barrels for sanitary and storm works, built to CSA A257 and ASTM C-478, with 305 mm aluminum ladder rungs in polyethylene anchor sleeves. Catch basins and perforated barrels to BC MOT specifications.	SHEET FORMAT 11 x 17 in / Landscape	UNITS / SCALE As noted / Do not scale
	APPROX. WEIGHT - SOURCE VALUES ONLY See drawing / confirm with Tri-Kon; no weight estimated.	ORIGINAL SOURCE DATE 11-20-2023	LAYOUT UPDATED ONLY 2026-10-05



STRUCTURAL SPECIFICATIONS

GENERAL

1. ALL CONSTRUCTION SHALL CONFORM TO ASTM C1433M STANDARDS AND SUBSEQUENT REVISIONS.
2. ALL REFERENCES TO STANDARDS SHALL REFER TO THE LATEST REVISED ISSUE.
3. THESE DRAWINGS PREPARED BY MELHANNÉY CONSULTING SERVICES LTD. (MELHANNÉY) ARE INTENDED FOR STRUCTURAL REQUIREMENTS OF THIS PROJECT ONLY. ALL OTHER ASPECTS ASSOCIATED WITH THIS PROJECT WHICH INCLUDE, BUT ARE NOT LIMITED TO, CIVIL, GEOTECHNICAL, MECHANICAL, ELECTRICAL, ARE TO BE DESIGNED, SPECIFIED AND APPROVED BY OTHERS AND ARE CONSIDERED BEYOND MELHANNÉY'S SCOPE OF WORK.
4. STRUCTURAL ELEMENTS PRESENTED ON THESE DRAWINGS ARE FOR PERMANENT STRUCTURE AND FOUNDATIONS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY AND CONSTRUCTION BRACING AND SUPPORT INCLUDING GEOTECHNICAL REQUIREMENTS UNTIL THE PROJECT IS COMPLETED.
5. REFER TO CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR DIMENSIONS, GRADES, SLEEVES, EQUIPMENT, SHAFTS, INSERTS, NAILERS, CHAMFERS, ETC. DIMENSIONS, ELEVATIONS AND SLOPES SHOWN ON STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY AND MUST BE CONFIRMED PRIOR TO CONSTRUCTION.

FIELD REVIEWS BY MELHANNÉY CONSULTING SERVICES LTD.

1. MELHANNÉY ASSUMES NO RESPONSIBILITY FOR FIELD REVIEWS OF THE CONSTRUCTION OR VERIFICATION OF THE CONSTRUCTION UNLESS EXPRESSLY RETAINED TO DO SO.
2. MELHANNÉY CONSULTING SERVICES LTD. (MELHANNÉY) PROVIDE FIELD REVIEWS ONLY FOR THE WORK SHOWN ON THESE DRAWINGS. FIELD REVIEWS BY MELHANNÉY ARE PERIODIC AND AT THE SOLE DISCRETION OF MELHANNÉY IN ORDER TO ASCERTAIN THAT THE WORK IS IN GENERAL CONFORMANCE WITH THE DESIGN DRAWINGS AND SUPPORTING DOCUMENTS.
3. FIELD REVIEWS BY MELHANNÉY ARE NOT FOR THE CONTRACTOR'S BENEFIT NOR DOES IT MAKE MELHANNÉY GUARANTORS OF THE CONTRACTOR'S WORK. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO BUILD THE WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.
4. MELHANNÉY WILL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
5. IF MELHANNÉY IS RETAINED FOR FIELD REVIEWS THEN THE CONTRACTOR IS TO PROVIDE 24 HOUR NOTICE PRIOR TO CONCRETE POURS.

CONCRETE

1. PREPARATION, PLACING, FINISHING AND TESTING OF CONCRETE IS TO CONFORM TO CSA A23.1 AND CSA A23.2
2. BEFORE PLACING CONCRETE, THE CONTRACTOR SHALL CHECK ALL APPLICABLE DRAWINGS FOR ANCHOR BOLTS, INSERTS, EMBEDS, RECESSES AND BULKHEADS. THEIR LOCATIONS SHALL BE CONFIRMED BY THE VARIOUS SUBTRADES.
3. CONCRETE COVER OVER REINFORCING IS TO BE AS SHOWN ON DRAWINGS.

ITEM	28 DAY (STRENGTH)	EXPOSURE	W/C	AIR (%)	CEMENT TYPE	AGG. (SIZE mm)
PRECAST CONCRETE	30 MPa	F1	40	4-7	HS	20

REINFORCING STEEL

1. REINFORCING STEEL IS TO CONFORM TO CSA G30.12M - GRADE 400 MPa.
2. REINFORCING STEEL BENDS AND OTHER DETAILS OF REINFORCEMENT PLACEMENT SHALL BE IN ACCORDANCE WITH CANCSA A23.1 AND ALSO THE REINFORCING STEEL INSTITUTE OF CANADA MANUAL OF STANDARD PRACTICE.
3. REINFORCING STEEL IS TO BE PLACED AS DETAILED TO 10mm TOLERANCE AND IS TO BE SUPPORTED BY METAL OR PLASTIC SUPPORTS AND/OR HANGERS IN ACCORDANCE WITH CANCSA A23.1
4. LAP ALL REINFORCING BAR SPLICES 32 BAR DIAMETERS MINIMUM UNLESS INDICATED OTHERWISE ON THESE DRAWINGS.
5. REINFORCING STEEL IS TO BE CLEAN, FREE OF CORROSION AND UNDamaged.
6. DO NOT WELD BARS OR USE HEAT TO BEND REINFORCING STEEL.
7. UNLESS NOTED OTHERWISE MINIMUM CONCRETE COVER IS TO BE 30mm CLEAR.

PRECAST COMPONENT LIFTING AND RIGGING

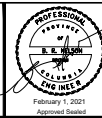
1. THE PRECAST CONTRACTOR IS RESPONSIBLE FOR ALL RIGGING AND LIFTING PROCEDURES REQUIRED TO ENSURE SAFE LIFTING AND PLACEMENT OF PRECAST CONCRETE COMPONENTS IN ACCORDANCE WITH INDUSTRY STANDARDS AND WORKSAFE BC REQUIREMENTS.
2. THE CONTRACTOR IS TO ENSURE THAT THE HOISTING DEVICES INCLUDING ALL ASSOCIATED ACCESSORIES (SHACKLES, SLINGS, PINS ETC.) ARE RATED TO THE APPLICABLE LOAD AND ARE IN GOOD WORKING CONDITION.
3. THE CONTRACTOR IS TO ENSURE THAT ALL PERSONNEL OPERATING OR WORKING WITH THE HOISTING DEVICES ARE PROPERLY TRAINED, EXPERIENCED AND CERTIFIED ON THE HOISTING DEVICE.

Rev	Date	Description	Drawn	Design	App'd
1	FEB 1, 2021	CONCRETE STRENGTH REVISED	SAV	BHV	SAV
2	FEB 26, 2016	ISSUED FOR CONSTRUCTION	SAV	BHV	SAV

THIS DRAWING AND DESIGN IS THE PROPERTY OF MELHANNÉY AND SHALL NOT BE USED, REPRODUCED OR REPRODUCED WITHOUT THE CONSENT OF MELHANNÉY. MELHANNÉY WILL NOT BE HELD RESPONSIBLE FOR THE SUPERVISOR OR UNAUTHORIZED USE OF THIS DRAWING AND DESIGN.	THIS DRAWING IS PART OF A COMPLETE SET OF DRAWINGS AND IS TO BE READ IN CONJUNCTION WITH ALL SHEETS WITHIN THE DRAWING SET. REFER TO ALL SHEETS INCLUDING STRUCTURAL NOTES PROVIDED ON SHEET S10.	THIS DRAWING IS INTENDED FOR THE STRUCTURAL CONSTRUCTION OF THIS PARTICULAR PROJECT AND IS NOT INTENDED TO BE USED AS A RECORD DRAWING UNLESS SPECIFICALLY NOTED AS SUCH.	MELHANNÉY RECOMMENDS THE OWNER ENGAGES ALL PROFESSIONAL ASPECTS FOR THIS PROJECT FOR ALL APPLICABLE DISCIPLINES INCLUDING BUT NOT LIMITED TO: ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL AND GEOTECHNICAL PROFESSIONS.
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1800 Wilfridbrook Drive
Cranbrook, BC
Canada V1C 7H5
Tel (250) 489-3013



February 1, 2021
Approved/Sealed

TRI-KON PRECAST PRODUCTS LTD.
861 PATTERSON STREET WEST, CRANBROOK, BC

PRECAST REINFORCED CONCRETE MANHOLE LIDS
1525mmØ LID
PLAN VIEW, REINFORCING LAYOUT AND SECTION

Drawing No.
S105

Project Number
2441-00705-00

Rev.
1

Tri-Kon Precast Products Ltd.

601 Patterson Street West
Cranbrook BC V1C 6T3

250-426-8162
info@trikonprecast.com
trikonprecast.com

DRAWING / PRODUCT NAME

1525 mm Reinforced Lid

DESCRIPTION

Original reference: 1525 mm Reinforced Lid. Technical notes and source identification are preserved.

APPROX. WEIGHT - SOURCE VALUES ONLY

See drawing / confirm with Tri-Kon; no weight estimated.

CATALOG REFERENCE

TK-MC-015

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

FEB 1, 2021

SHEET

15 / 22

UNITS / SCALE

As noted / Do not scale

LAYOUT UPDATED ONLY

2026-10-05

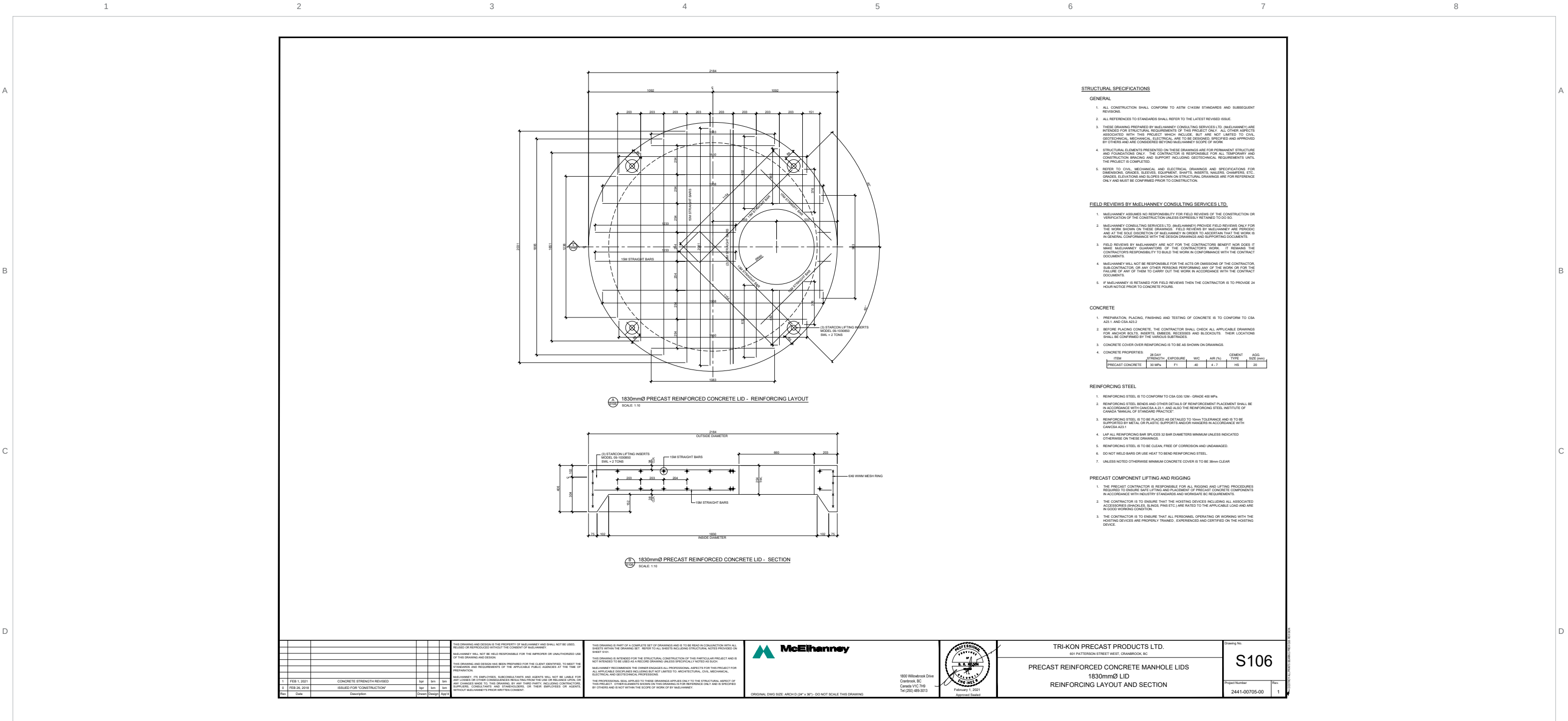


Manhole & Catch Basin

1830 mm Reinforced Lid

ENGINEER REFERENCE

PRODUCT REFERENCE / DO NOT SCALE



Tri-Kon Precast Products Ltd.

601 Patterson Street West
Cranbrook BC V1C 6T3

250-426-8162
info@trikonprecast.com
trikonprecast.com

DRAWING / PRODUCT NAME

1830 mm Reinforced Lid

DESCRIPTION

Original reference: 1830 mm Reinforced Lid. Technical notes and source identification are preserved.

APPROX. WEIGHT - SOURCE VALUES ONLY

See drawing / confirm with Tri-Kon; no weight estimated.

CATALOG REFERENCE

TK-MC-017

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

FEB 1, 2021

SHEET

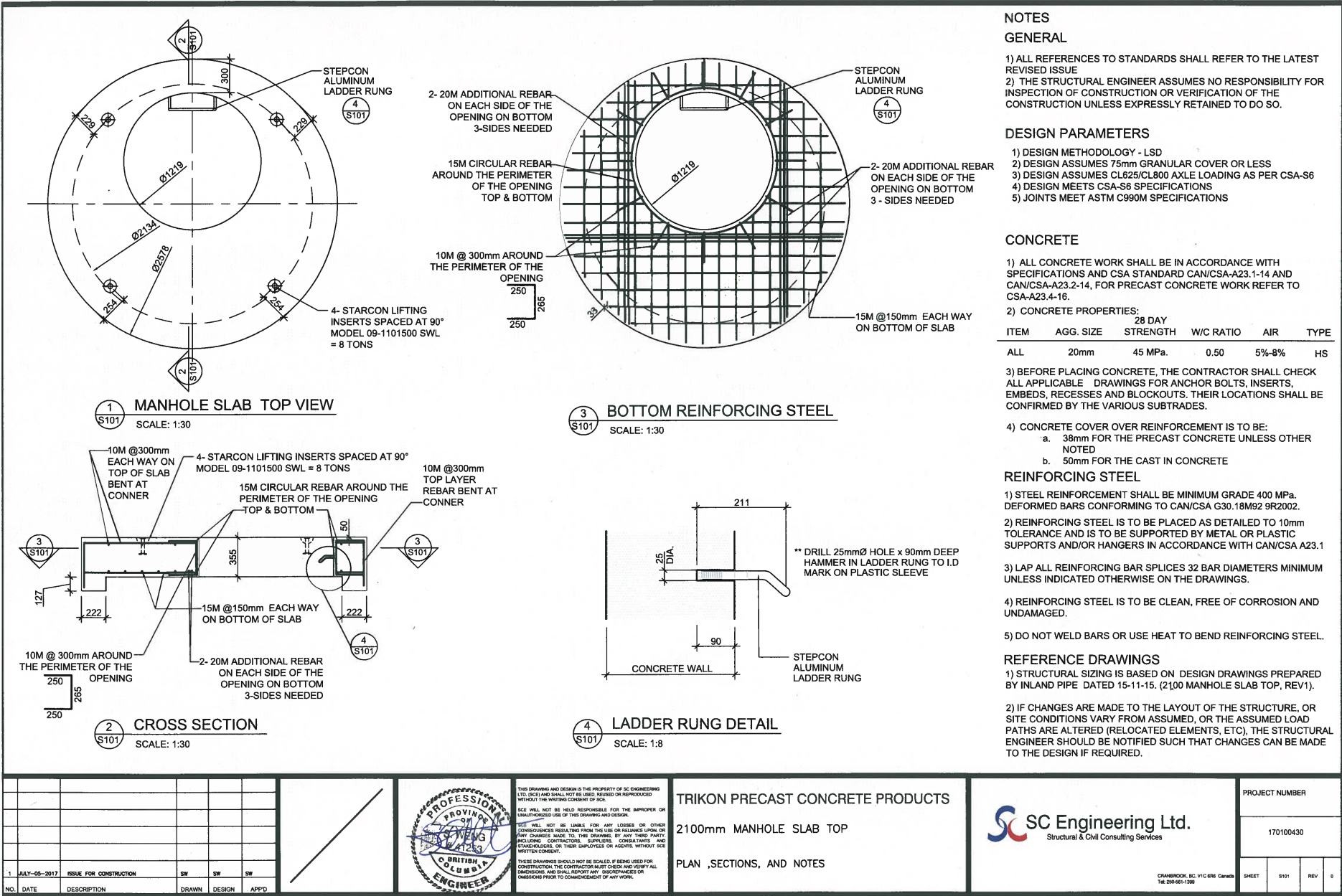
17 / 22

UNITS / SCALE

As noted / Do not scale

LAYOUT UPDATED ONLY

2026-10-05



Tri-Kon Precast Products Ltd.

601 Patterson Street West
Cranbrook BC V1C 6T3

250-426-8162
info@trikonprecast.com
trikonprecast.com

DRAWING / PRODUCT NAME

2100 mm Manhole Slab Top

DESCRIPTION

Original reference: 2100 mm Manhole Slab Top. Technical notes and source identification are preserved.

APPROX. WEIGHT - SOURCE VALUES ONLY

See drawing / confirm with Tri-Kon; no weight estimated.

CATALOG REFERENCE

TK-MC-019

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

As recorded in original

SHEET

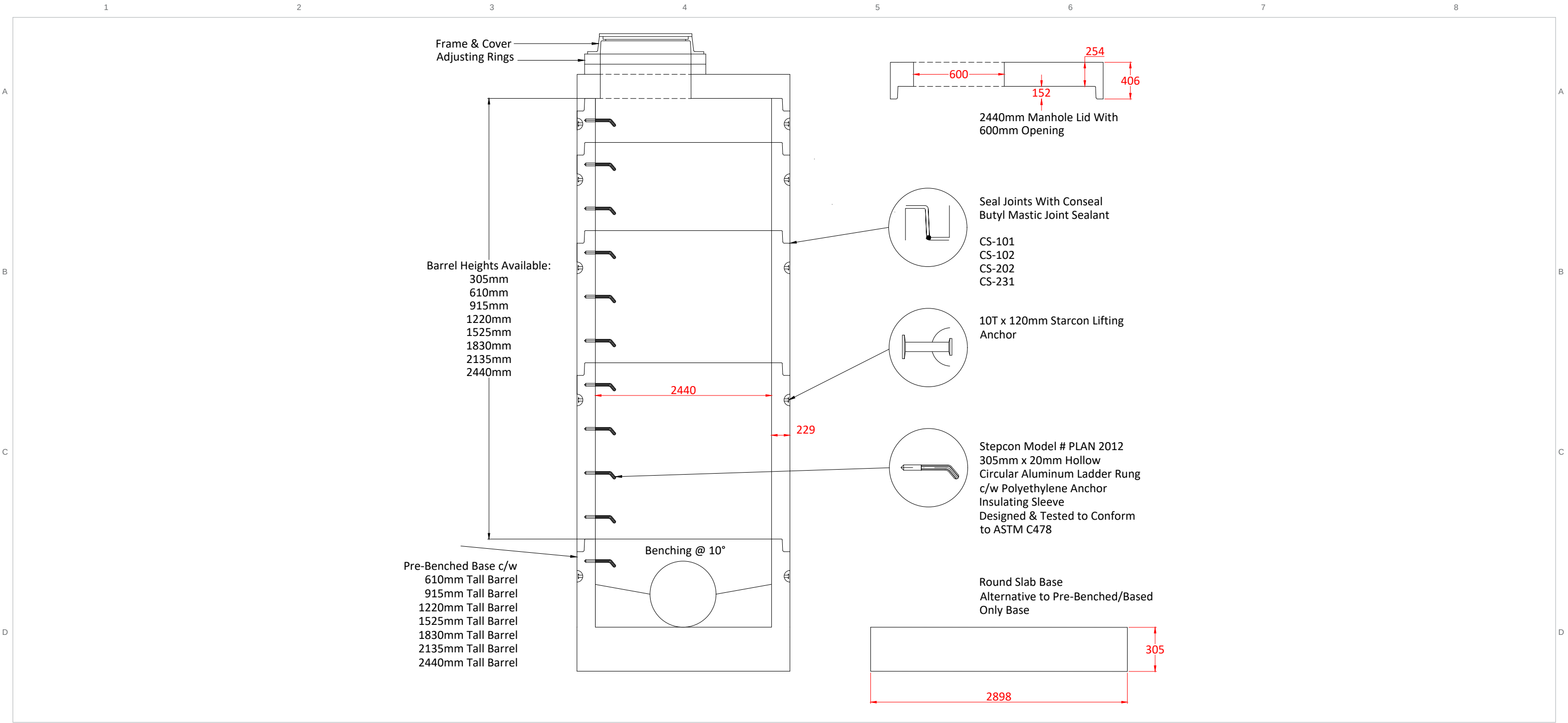
19 / 22

UNITS / SCALE

As noted / Do not scale

LAYOUT UPDATED ONLY

2026-10-05



Tri-Kon Precast Products Ltd.

601 Patterson Street West
Cranbrook BC V1C 6T3

250-426-8162
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trikonprecast.com

DRAWING / PRODUCT NAME

2440 mm Manhole

DESCRIPTION

Manhole barrels for sanitary and storm works, built to CSA A257 and ASTM C-478, with 305 mm aluminum ladder rungs in polyethylene anchor sleeves. Catch basins and perforated barrels to BC MOT specifications.

APPROX. WEIGHT - SOURCE VALUES ONLY

See drawing / confirm with Tri-Kon; no weight estimated.

CATALOG REFERENCE

TK-MC-020

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

11-20-2023

SHEET

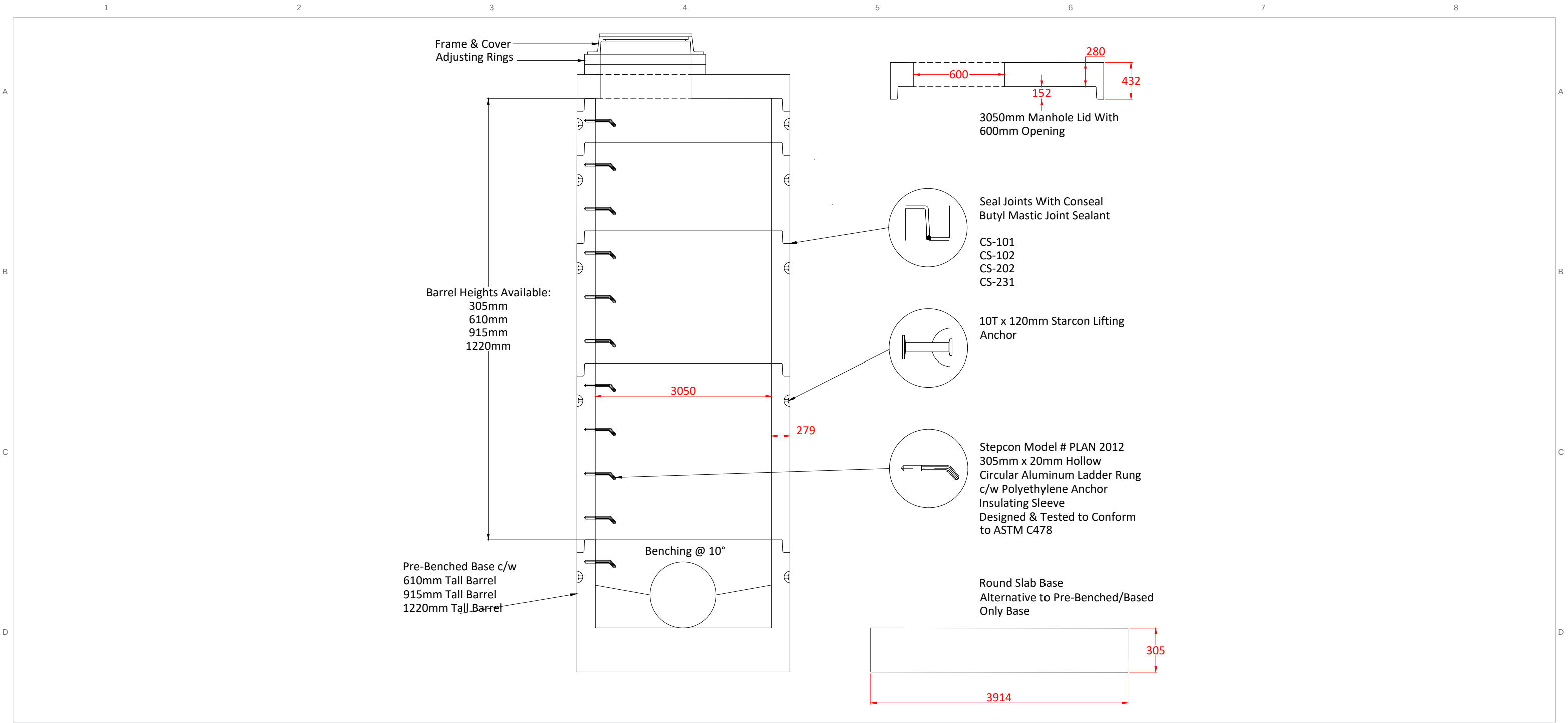
20 / 22

UNITS / SCALE

As noted / Do not scale

LAYOUT UPDATED ONLY

2026-10-05



Tri-Kon Precast Products Ltd.

601 Patterson Street West
Cranbrook BC V1C 6T3

250-426-8162
info@trikonprecast.com
trikonprecast.com

DRAWING / PRODUCT NAME

3050 mm Manhole

DESCRIPTION

Manhole barrels for sanitary and storm works, built to CSA A257 and ASTM C-478, with 305 mm aluminum ladder rungs in polyethylene anchor sleeves. Catch basins and perforated barrels to BC MOT specifications.

APPROX. WEIGHT - SOURCE VALUES ONLY

See drawing / confirm with Tri-Kon; no weight estimated.

CATALOG REFERENCE

TK-MC-021

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

11-20-2023

SHEET

21 / 22

UNITS / SCALE

As noted / Do not scale

LAYOUT UPDATED ONLY

2026-10-05

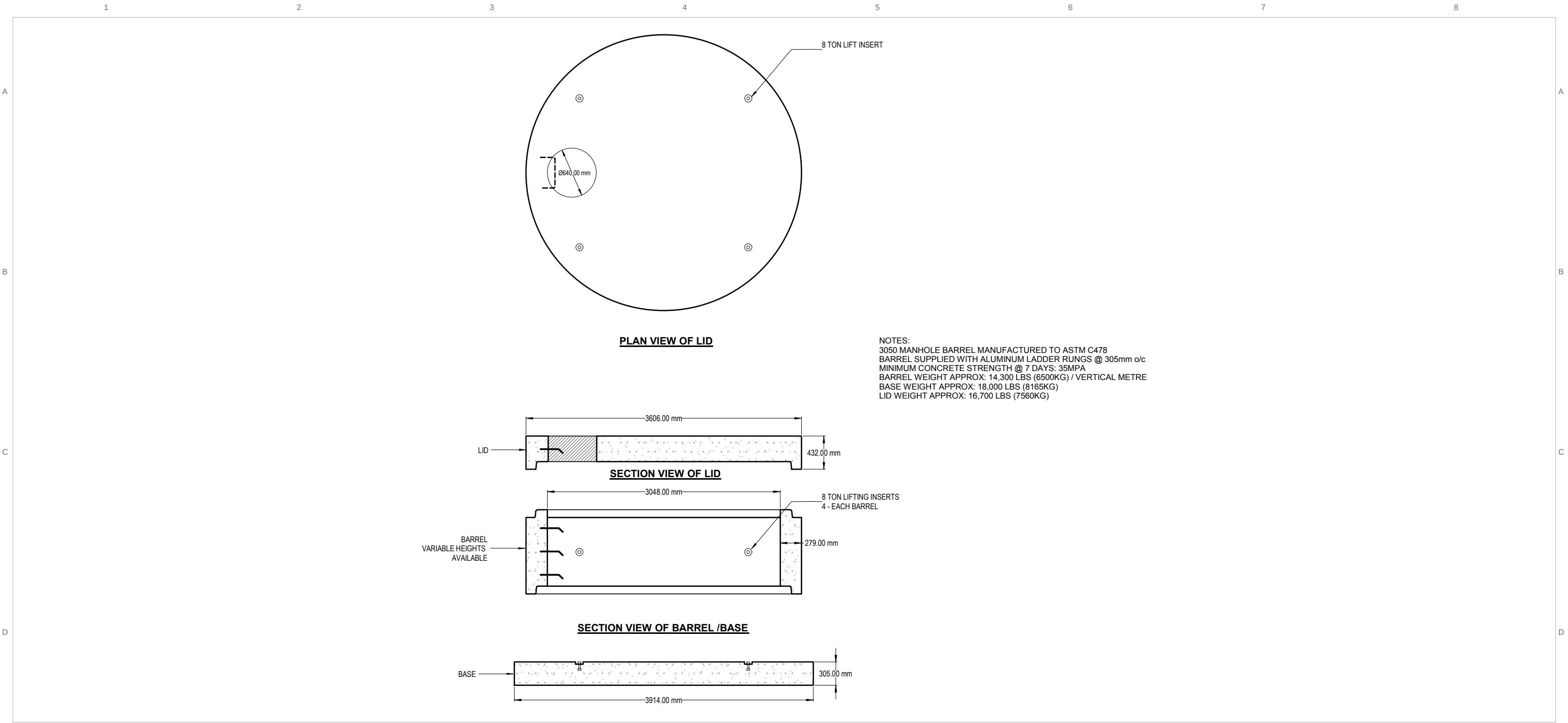


Manhole & Catch Basin

3050 mm Manhole Barrel

TRI-KON SOURCE

PRODUCT REFERENCE / DO NOT SCALE



NOTES:
3050 MANHOLE BARREL MANUFACTURED TO ASTM C478
BARREL SUPPLIED WITH ALUMINUM LADDER RUNGS @ 305mm o/c
MINIMUM CONCRETE STRENGTH @ 7 DAYS: 35MPA
BARREL WEIGHT APPROX: 14,300 LBS (6500KG) / VERTICAL METRE
BASE WEIGHT APPROX: 18,000 LBS (8165KG)
LID WEIGHT APPROX: 16,700 LBS (7560KG)

Tri-Kon Precast Products Ltd. 601 Patterson Street West Cranbrook BC V1C 6T3 250-426-8162 info@trikonprecast.com trikonprecast.com	DRAWING / PRODUCT NAME 3050 mm Manhole Barrel	CATALOG REFERENCE TK-MC-022	SHEET 22 / 22
	DESCRIPTION Manhole barrels for sanitary and storm works, built to CSA A257 and ASTM C-478, with 305 mm aluminum ladder rungs in polyethylene anchor sleeves. Catch basins and perforated barrels to BC MOT specifications.	SHEET FORMAT 11 x 17 in / Landscape	UNITS / SCALE As noted / Do not scale
	APPROX. WEIGHT - SOURCE VALUES ONLY See drawing / confirm with Tri-Kon; no weight estimated.	ORIGINAL SOURCE DATE MARCH 23/2011	LAYOUT UPDATED ONLY 2026-10-05