


(Models BB-275, BB-500, BB-750, BB-1000, BB-1500)



Leak/Seal Testing

Lifetime Warranty

DESCRIPTION: <div>BIO BASIN SERIES INSTALLATION, OPERATION AND MAINTENANCE GUIDE</div>	<div> Striem 3100 Brinkerhoff Kansas City, KS 66115 Tel: 913-222-1500 Fax: 913-291-0457 www.striemco.com </div> <div>Made in the U.S.A</div>	
--	--	---

SHEET NUMBER: 1 of 7		
-----------------------------	--	--

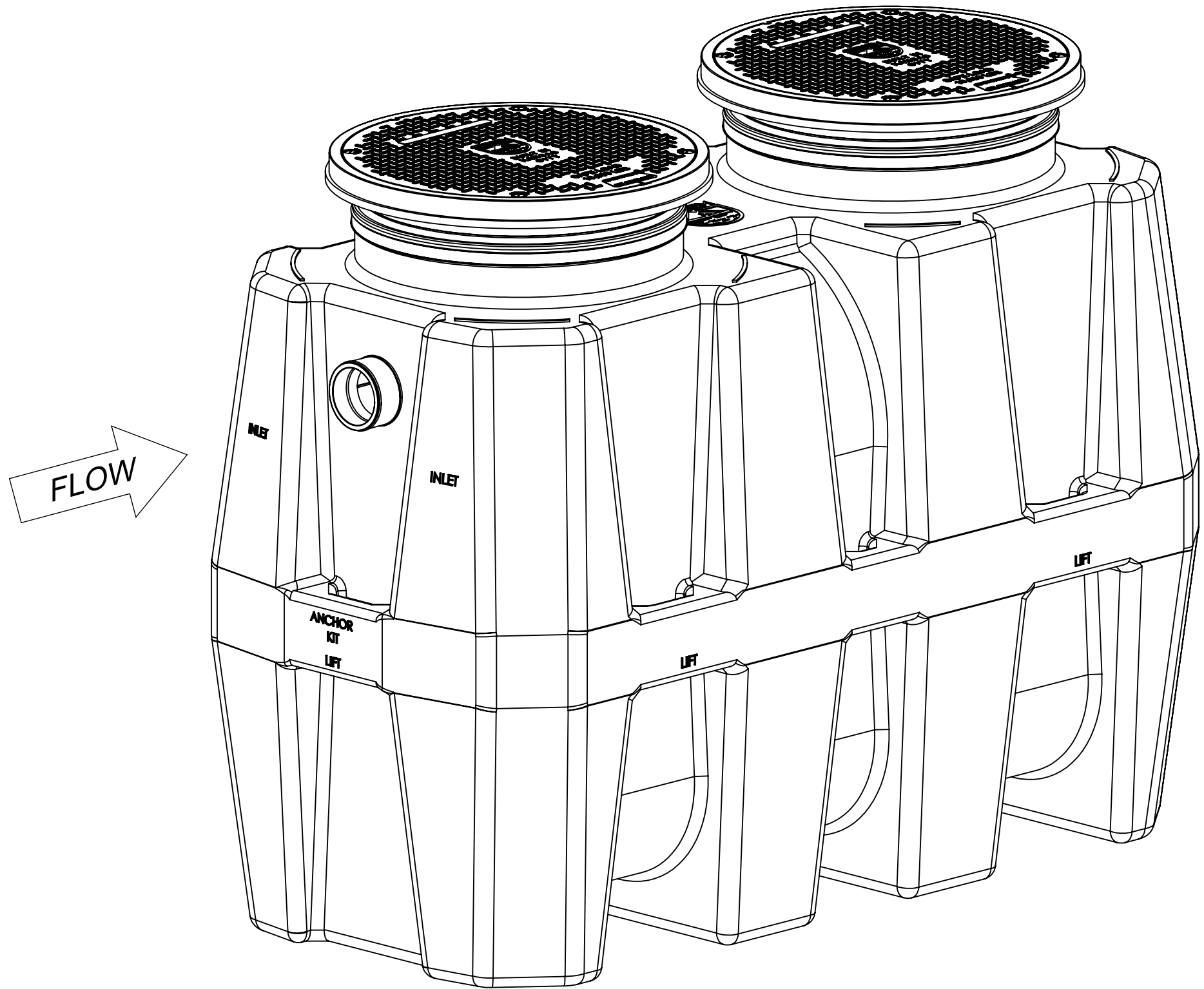
DWG BY: MJ	DATE: 12/07/18	REV:	ECO:
-------------------	-----------------------	-------------	-------------

Striem Decontamination tanks are not to be installed in any other manner except as shown. Consult local codes for separate trapping requirements, cleanout locations and additional installation instructions.

PROPRIETARY AND CONFIDENTIAL

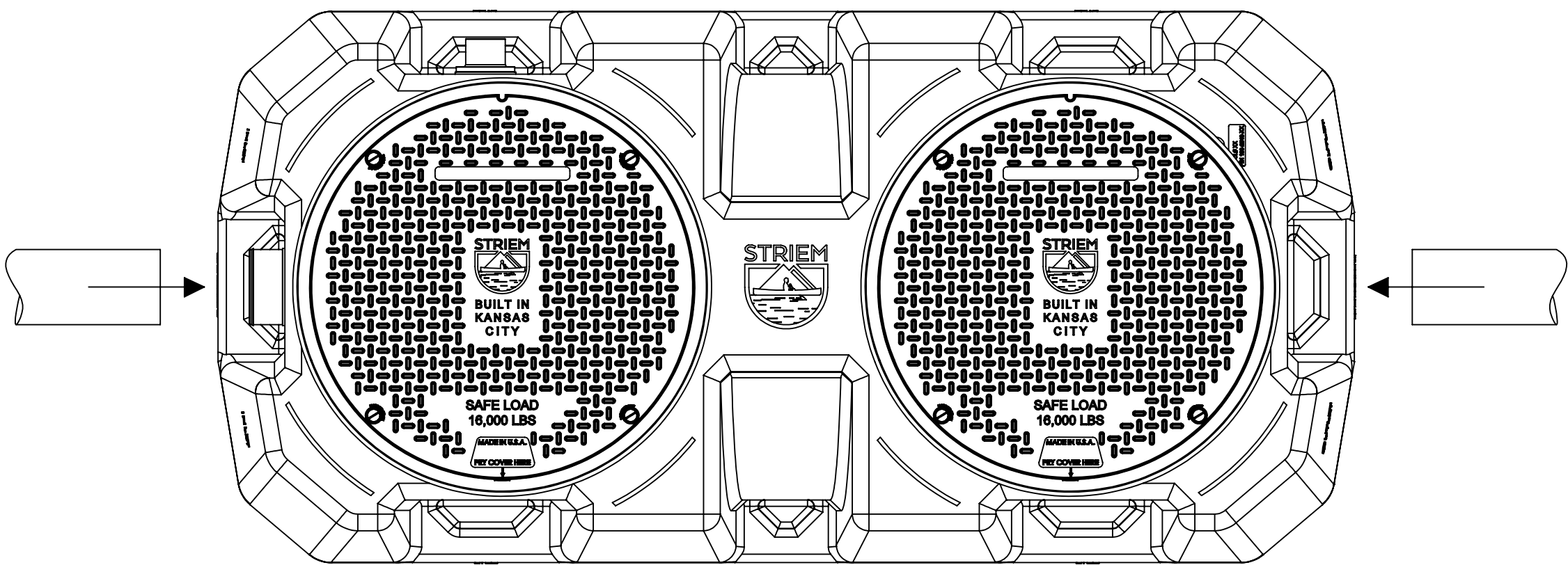
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF **STRIEM, LLC**.
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF **STRIEM, LLC**, IS
PROHIBITED.

GENERAL DECONTAMINATION TANK INSTALLATION INSTRUCTIONS
(BB-275 SHOWN)



Isometric View

Set unit on level solid surface as close as possible to fixtures being served. If unit is to be installed below grade refer to below grade installation instructions. (sheet #3)



Top View

Connect inlet and outlet drainage lines to unit. Mechanically couple to unit.
Do not solvent weld.

NOTES:

Striem Decontamination tanks are not to be installed in any other manner except as shown. Consult local codes for separate trapping requirements, cleanout locations and additional installation instructions.

OPERATION:

Striem offers a complete series of decontamination (holding) tanks to collect and store biological and contaminated liquid waste. These tanks offer a safe and economical way to contain potentially hazardous liquid waste for testing, pumping, or releasing into the public sewer system, once determined suitable for evacuation.

MAINTENANCE

1. Remove cover(s).
2. Contact a professional contractor to verify if wastewater is acceptable to pass to the sewer system.
3. Clean the drain lines thoroughly of all debris.
4. Inspect gaskets for wear and tear. Replace cover(s).
5. Dispose of waste per local code.

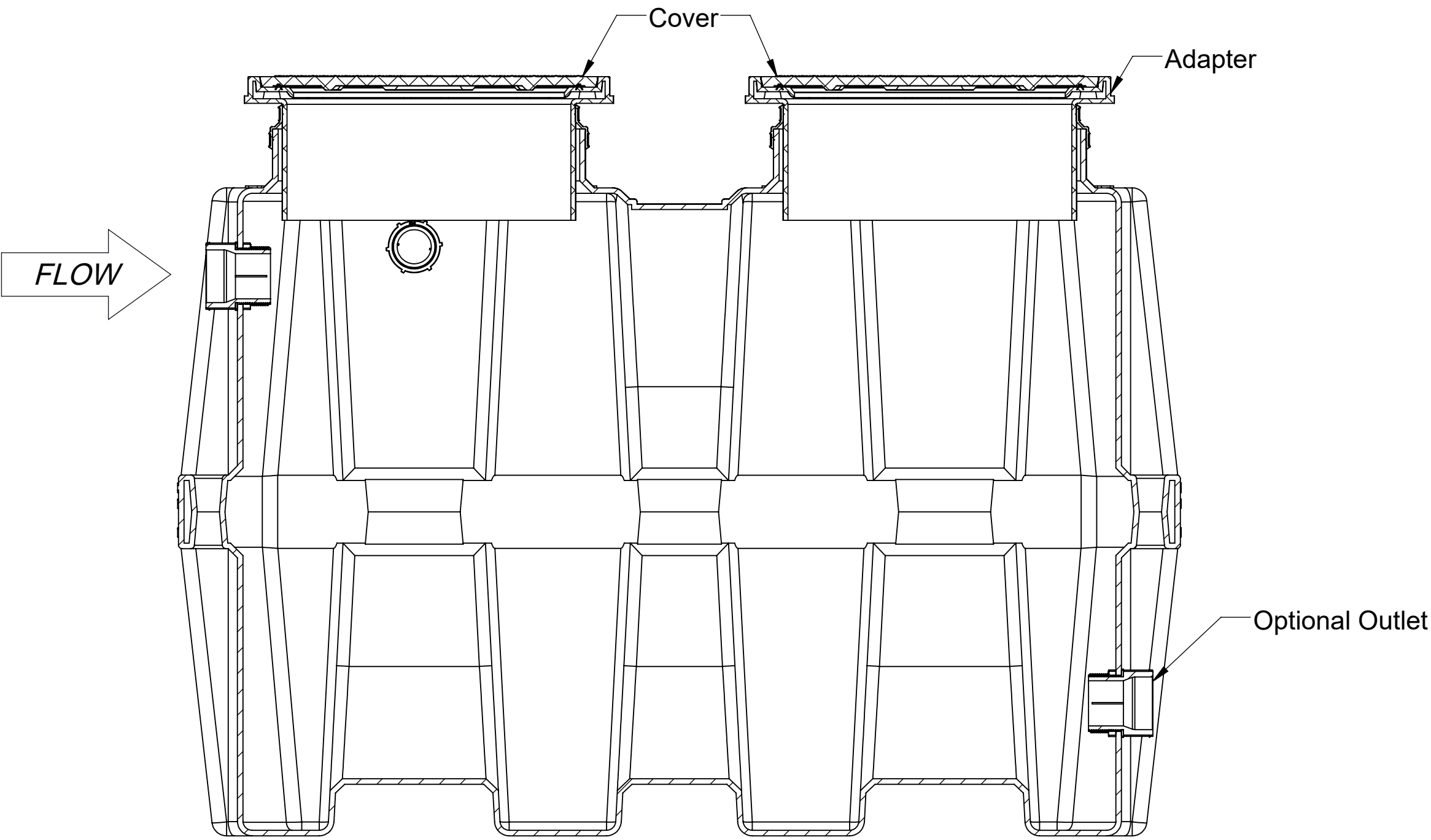
PUMPING FREQUENCY:

Tank contents shall be inspected by a professional contractor to verify whether it is contaminated waste or non-contaminated waste.
Tank shall be inspected frequently to check liquid level if there is no monitoring panel.
Tank shall be considered full when level is at, or near inlet connection.

Outlet options vary, depending on jobsite requirements. Options are;
* No outlet (pump out manually)
* Outlet with manual valve
* Outlet with electric actuated valve

TROUBLESHOOTING TIPS:

Slow drainage is course for immediate inspection! Action required depends on tank outlet option. Call a professional contractor for assistance. Call Striem for details on tank specifications.



BB-275 Shown

DESCRIPTION:

BIO BASIN SERIES INSTALLATION,
OPERATION AND MAINTENANCE GUIDE

SHEET NUMBER: 2 of 7

DWG BY: MJ

DATE: 12/07/18

REV:

ECO:

Striem
3100 Brinkerhoff
Kansas City, KS 66115
Tel: 913-222-1500
Fax: 913-291-0457
www.striemco.com

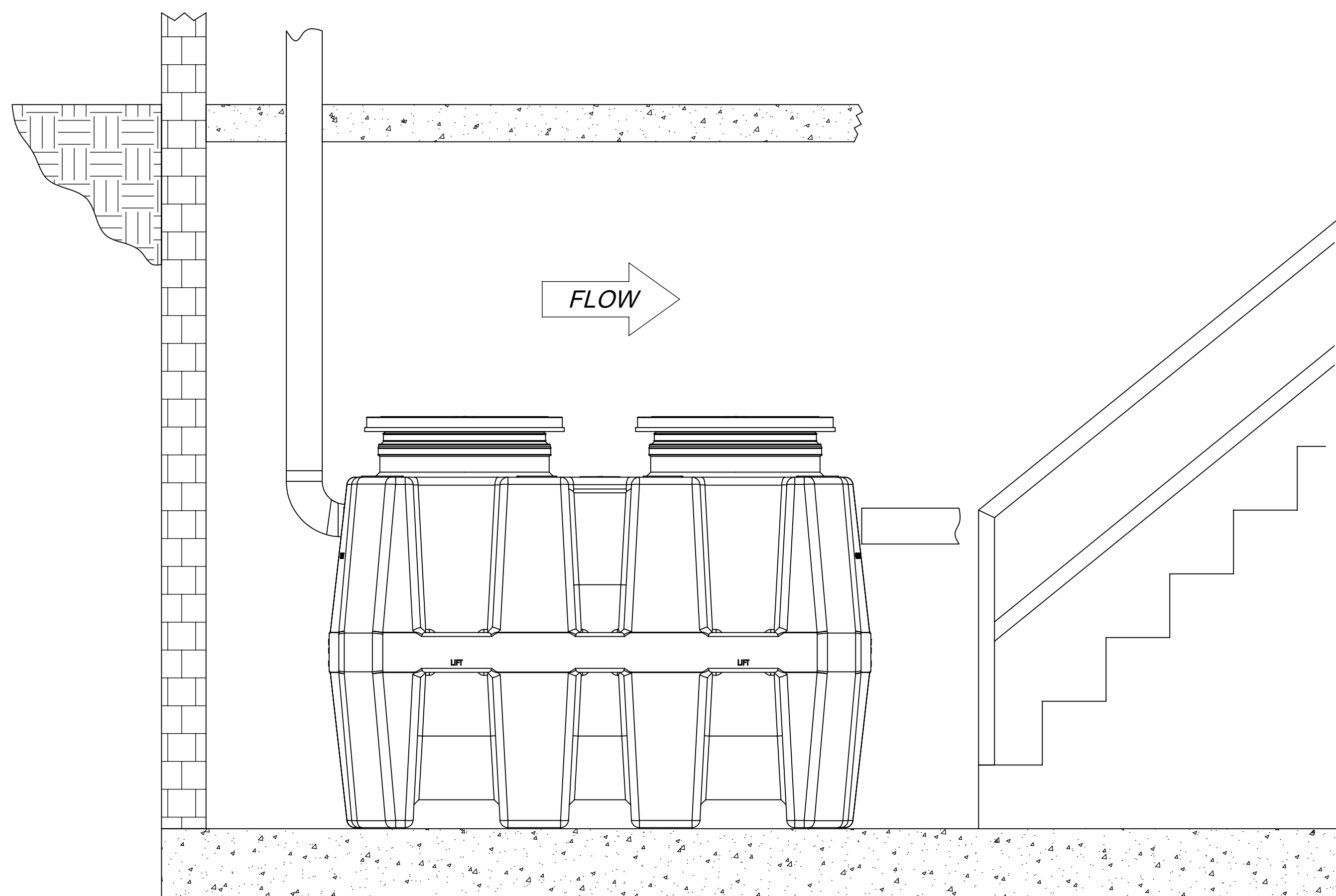
Made in the U.S.A



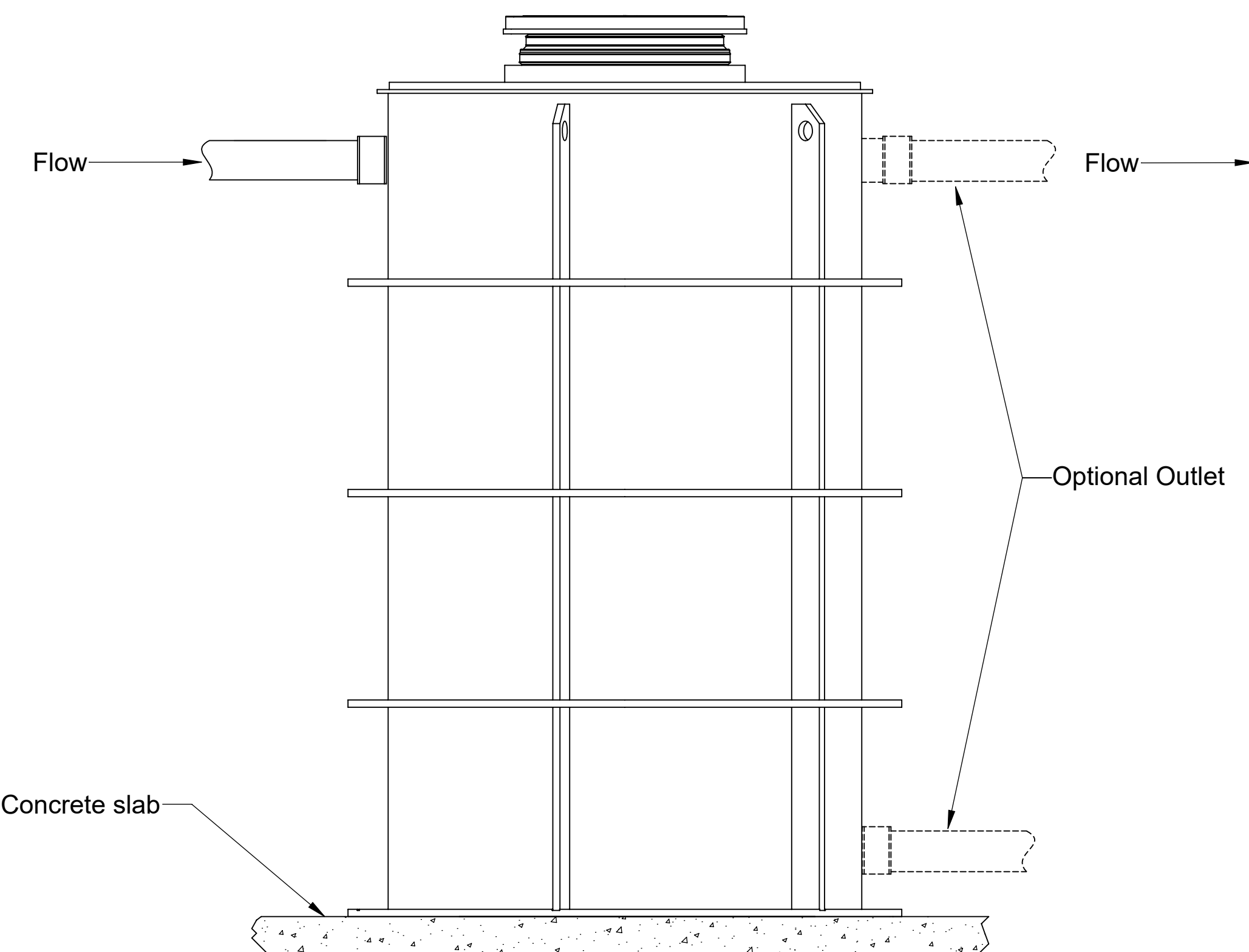
PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF STRIEM, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF STRIEM, LLC. IS PROHIBITED.

INTERIOR ABOVE GRADE INSTALLATION INSTRUCTIONS
(BB-275, BB-500)



ON-THE-FLOOR DETAIL
(BB-275 SHOWN)



ON-THE-FLOOR DETAIL
(BB-500 SHOWN)

CONNECTIONS

1. Connect waste piping to the unit.

NOTES:
Striem Decontamination tanks are not to be installed in any other manner except as shown. Consult local codes for separate trapping requirements, cleanout locations and additional installation instructions.

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF STRIEM, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF STRIEM, LLC. IS PROHIBITED.

DESCRIPTION:			
BIO BASIN SERIES INSTALLATION, OPERATION AND MAINTENANCE GUIDE			
SHEET NUMBER: 3 of 7			
DWG BY: MJ	DATE: 12/06/18	REV:	ECO:

Striem
3100 Brinkerhoff
Kansas City, KS 66115
Tel: 913-222-1500
Fax: 913-291-0457
www.striemco.com

Made in the U.S.A



INTERIOR OR EXTERIOR BELOW GRADE INSTALLATION INSTRUCTIONS
(BB-275)

BELOW GRADE INSTALLATION INSTRUCTIONS

EXCAVATION

1. Width and length of excavation shall be minimum 12" greater than the tank on all sides.
2. Depth of excavation shall be 6" deeper than tank bottom.
3. Set the tank in well-packed crushed aggregate material approximately 3/4" size rock, or sand, with no fines.
4. Anchor kit is recommended for installations in high water table conditions to prevent float out. To be determined by specifying engineer. If necessary, order optional "Anchor Kit" (see detail right).

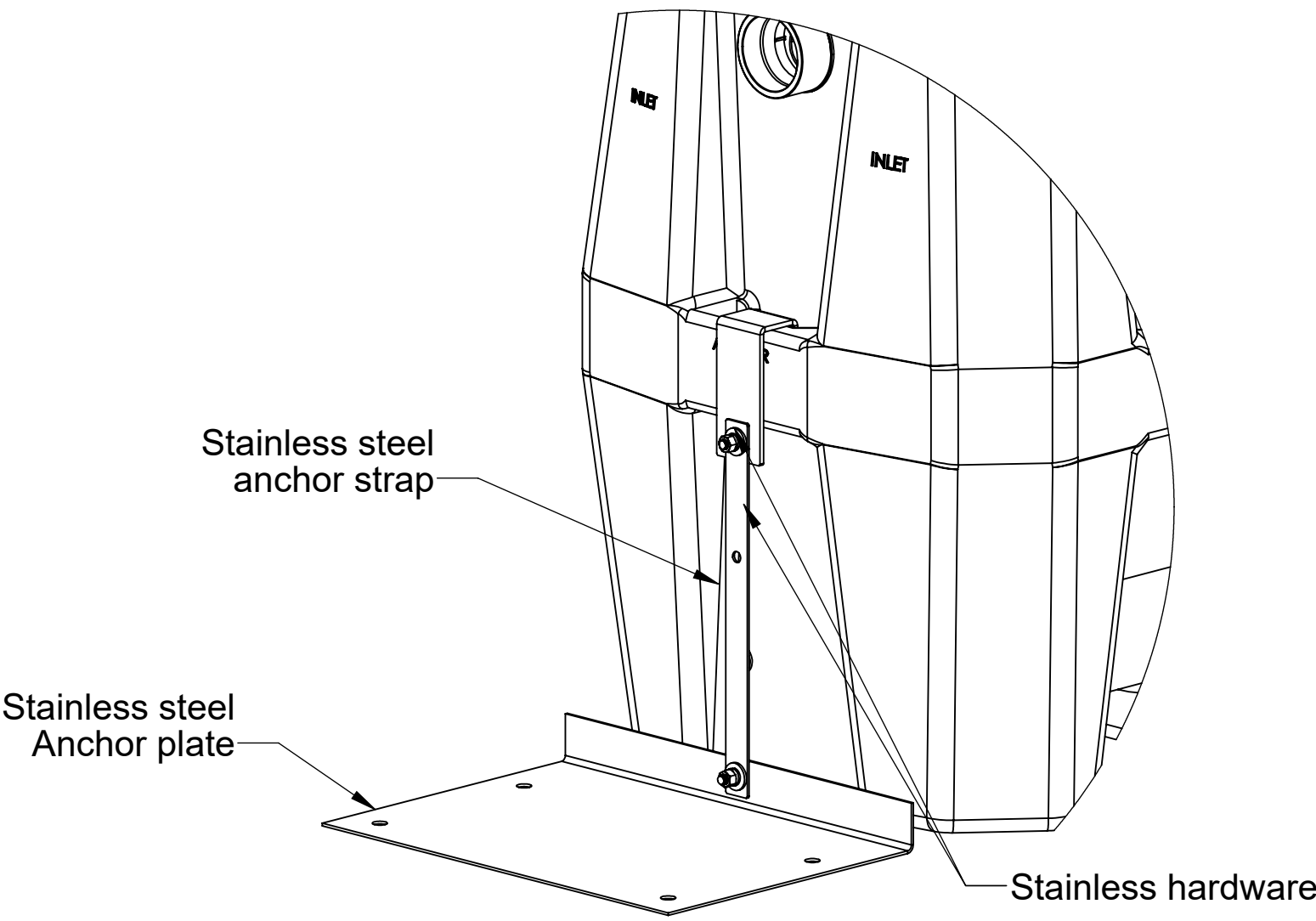
BACKFILLING & FINISHED CONCRETE SLAB

1. Preparation of sub grade per geotech recommendations.
2. Stabilize and compact sub grade to 95% proctor.
3. Fill tank with water before backfilling to prevent float out during piping installation.
4. Before backfilling and pouring of slab secure cover(s) and riser(s) (if necessary) to the unit(s)
5. Backfill using crushed aggregate material approximately 3/4" size rock, or sand, with no fines.
6. Place 6" aggregate base under slab. Aggregate should be 3/4" size rock, or sand, with no fines.
7. Thickness of concrete around cover to be determined by specifying engineer. If traffic loading is required the concrete slab dimensions shown are for guideline purposes only.
8. Concrete to be 28 day compressive strength to 4000 PSI.
9. NO. 4 rebar (\varnothing 1/2") grade 60 steel per ASTM A615: connected with tie wire.
10. Rebar to be 2 1/2" from edge of concrete.
11. Rebar spacing 12" grid. 4" spacing around access openings.
12. All pipe penetrations to be sleeved or have slip connections.

CONNECTIONS

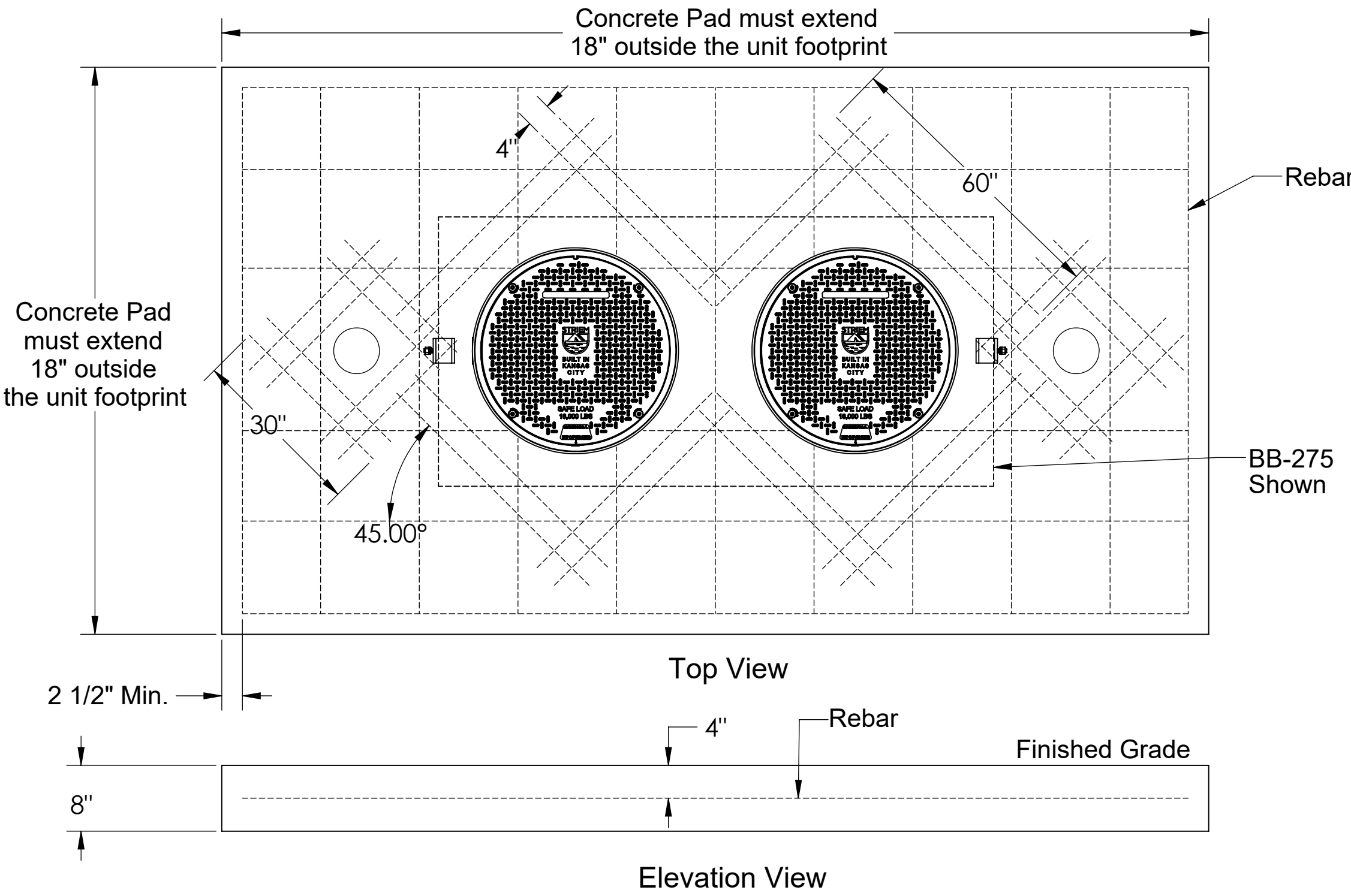
1. Connect waste piping to the unit.

ANCHOR KIT INSTALLATION DETAIL

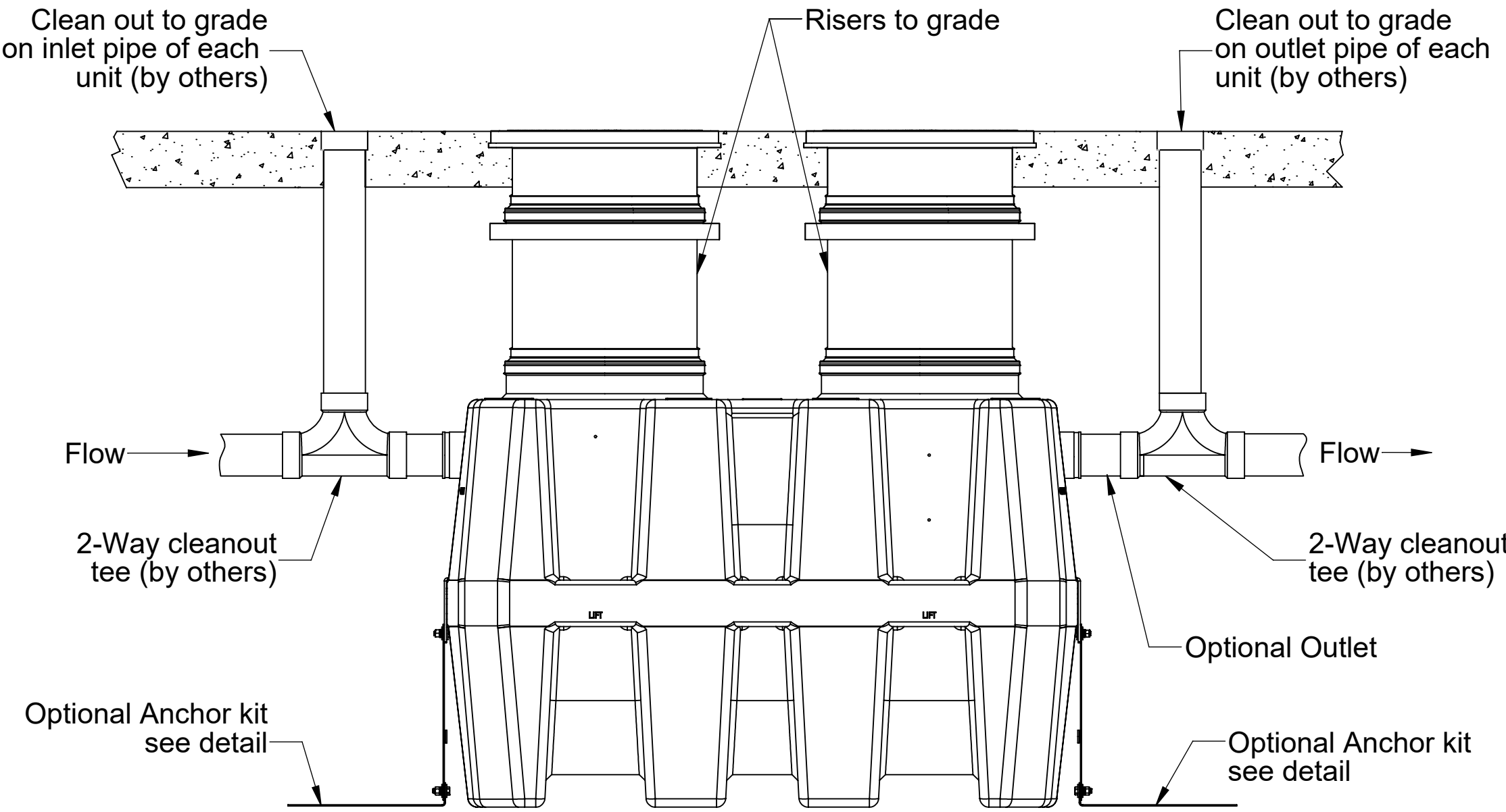


Anchor Kit Installation Steps

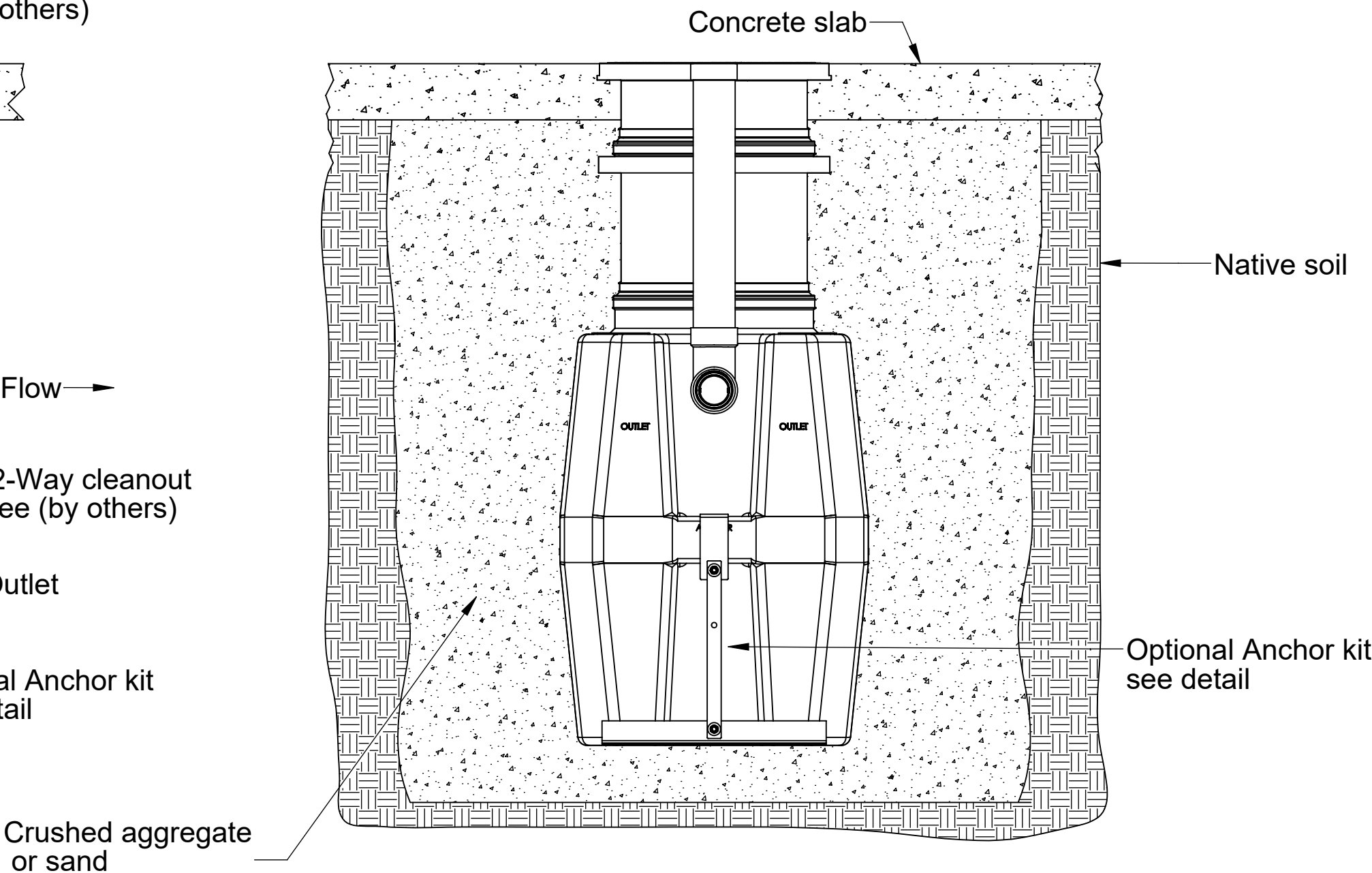
1. Slide "Anchor Strap" over tie down point on end wall and bolt together using provided hardware.
2. Bolt "Anchor Strap" to "Anchor Plate" using provided hardware
3. Hold down force achieved by backfill weight acting on Anchor Plate.
4. Anchor Plate may be bolted to concrete slab, if required, by using holes provided in Anchor Plate.



CONCRETE SLAB DETAIL FOR TRAFFIC LOADING
(INTERIOR OR EXTERIOR)
(BB-275 Shown)



SIDE VIEW DETAIL



EXCAVATION AND BACKFILL DETAIL
(INTERIOR OR EXTERIOR)

For unit details see specification sheet for selected unit
(Connecting pipe and fittings by others)

NOTES:

Striem Decontamination tanks are not to be installed in any other manner except as shown. Consult local codes for separate trapping requirements, cleanout locations and additional installation instructions.

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF STRIEM, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF STRIEM, LLC, IS PROHIBITED.

DESCRIPTION:			
BIO BASIN SERIES INSTALLATION, OPERATION AND MAINTENANCE GUIDE			
SHEET NUMBER: 4 of 7			
DWG BY: MJ	DATE: 12/07/18	REV:	ECO:

Striem
3100 Brinkerhoff
Kansas City, KS 66115
Tel: 913-222-1500
Fax: 913-291-0457
www.striemco.com

Made in the U.S.A



INTERIOR OR EXTERIOR BELOW GRADE INSTALLATION INSTRUCTIONS
(BB-500)

BELOW GRADE INSTALLATION INSTRUCTIONS

EXCAVATION

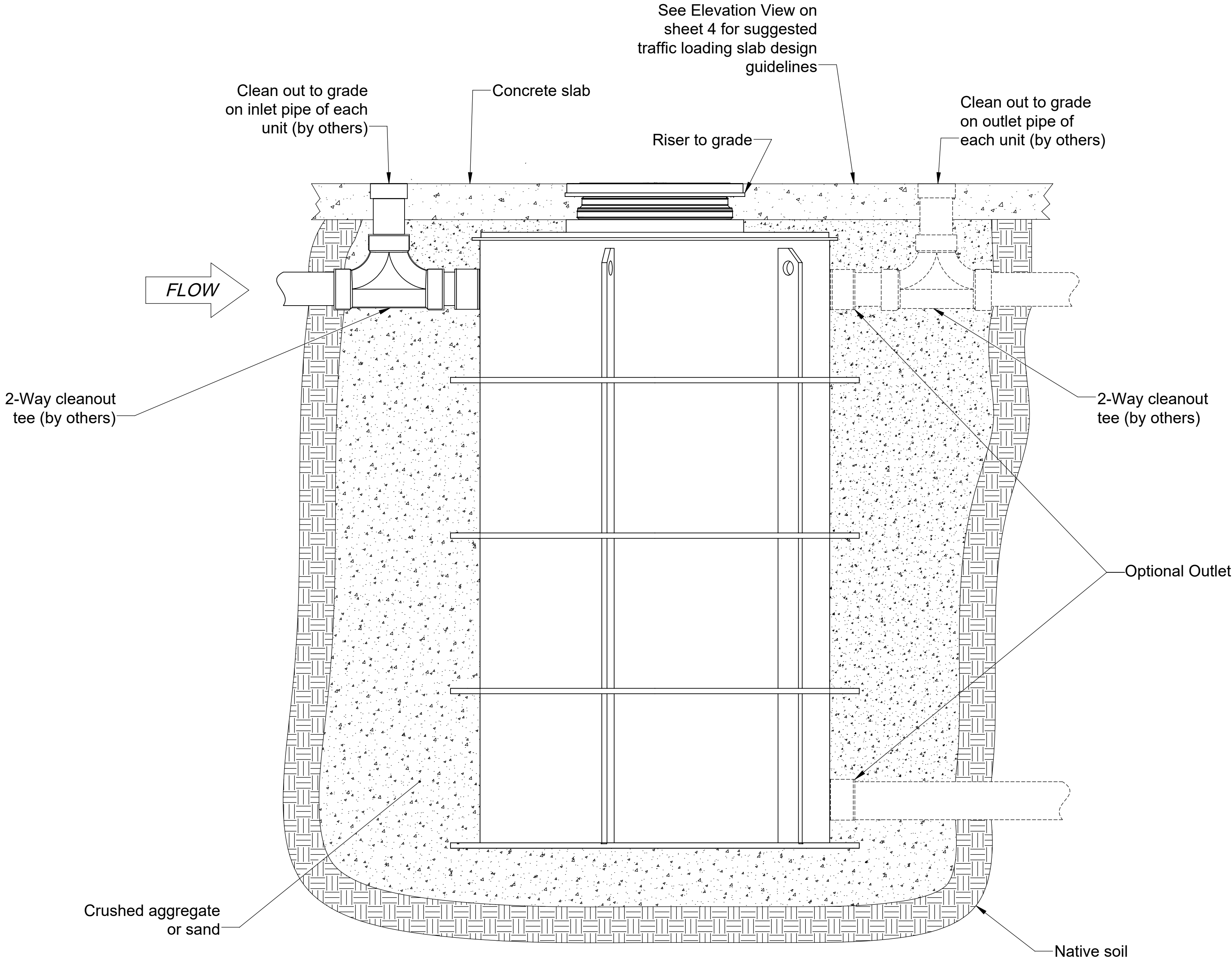
- 1. Width and length of excavation shall be minimum 12" greater than the tank on all sides.
- 2. Depth of excavation shall be 6" deeper than tank bottom.
- 3. Set the tank in well-packed crushed aggregate material approximately 3/4" size rock, or sand, with no fines.

INSTALLATION

- 1. Inspect unit(s) for defects and make sure it meets specifier requirements. Make sure no damage has been done to tank(s) or fittings during transportation.
- 2. Install tank(s) as close to fixture(s) as possible, making sure there is enough room above and around tank(s) for proper cleaning and maintenance.
- 3. Tank(s) must be fully supported either by a concrete pad or compacted sand bed free of stone and strong enough to hold the unit weight and water capacity.
- 4. Connect Inlet, Outlet, and Vent connections. Polyethylene tanks are supplied with polyethylene connections only. All tank(s) must be independently supported to avoid stress on fitting connections.
- 5. If multiple fixtures are being serviced, it is recommended that each fixture should be individually trapped and vented according to specifier requirements and state and/or local codes.
- 6. After piping in installed, inspect all pipe joints to ensure there are no leaks.
- 7. If required to conduct a pressure test on pipes, use an expandable test plug. **Do not pressure test unit.**

BACKFILLING & FINISHED CONCRETE SLAB

- 1. Preparation of sub grade per geotech recommendations.
- 2. Stabilize and compact sub grade to 95% proctor.
- 3. Fill tank(s) with water before backfilling to prevent float out during piping installation.
- 4. Before backfilling and pouring of slab secure cover(s) and riser/s (if necessary) to the unit(s)
- 5. Backfill using crushed aggregate material approximately 3/4" size rock, or sand, with no fines.
- 6. Place 6" aggregate base under slab. Aggregate should be 3/4" size rock, or sand, with no fines.
- 7. Thickness of concrete around cover to be determined by specifying engineer. If traffic loading is required the concrete slab dimensions shown are for guideline purposes only.
- 8. Concrete to be 28 day compressive strength to 4000 PSI.
- 9. NO. 4 rebar (Ø 1/2") grade 60 steel per ASTM A615: connected with tie wire.
- 10. Rebar to be 2-1/2" from edge of concrete.
- 11. Rebar spacing 12" grid. 4" spacing around access openings.
- 12. All pipe penetrations to be sleeved or have slip connections.



SIDE VIEW DETAIL

For unit details see specification sheet for selected unit
(Connecting pipe and fittings by others)

NOTES:
Striem Decontamination tanks are not to be installed in any other manner except as shown. Consult local codes for separate trapping requirements, cleanout locations and additional installation instructions.

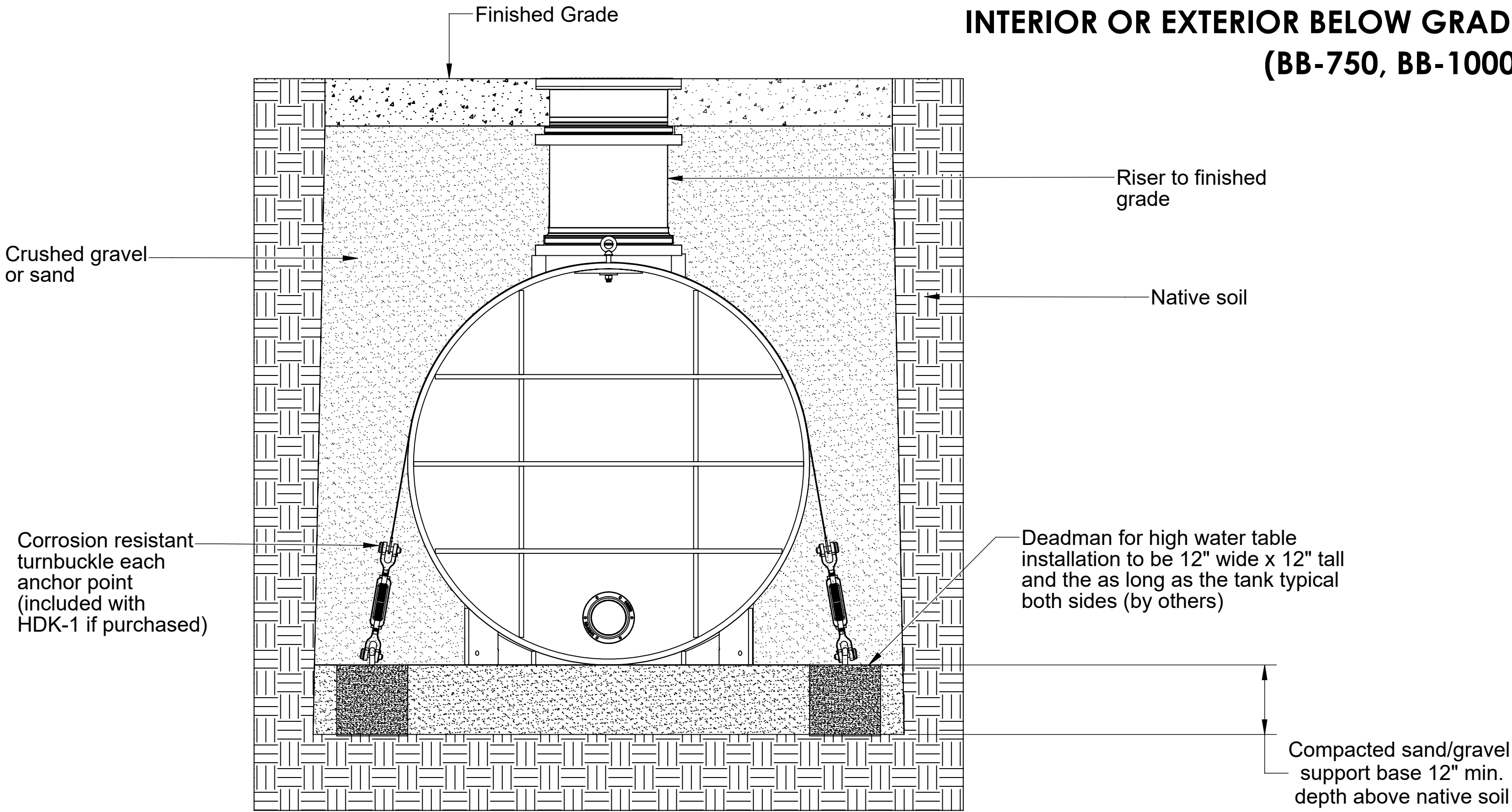
PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF STRIEM, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF STRIEM, LLC. IS PROHIBITED.

DESCRIPTION:			
BIO BASIN SERIES INSTALLATION, OPERATION AND MAINTENANCE GUIDE			
SHEET NUMBER: 5 of 7			
DWG BY: MJ	DATE: 12/07/18	REV:	ECO:

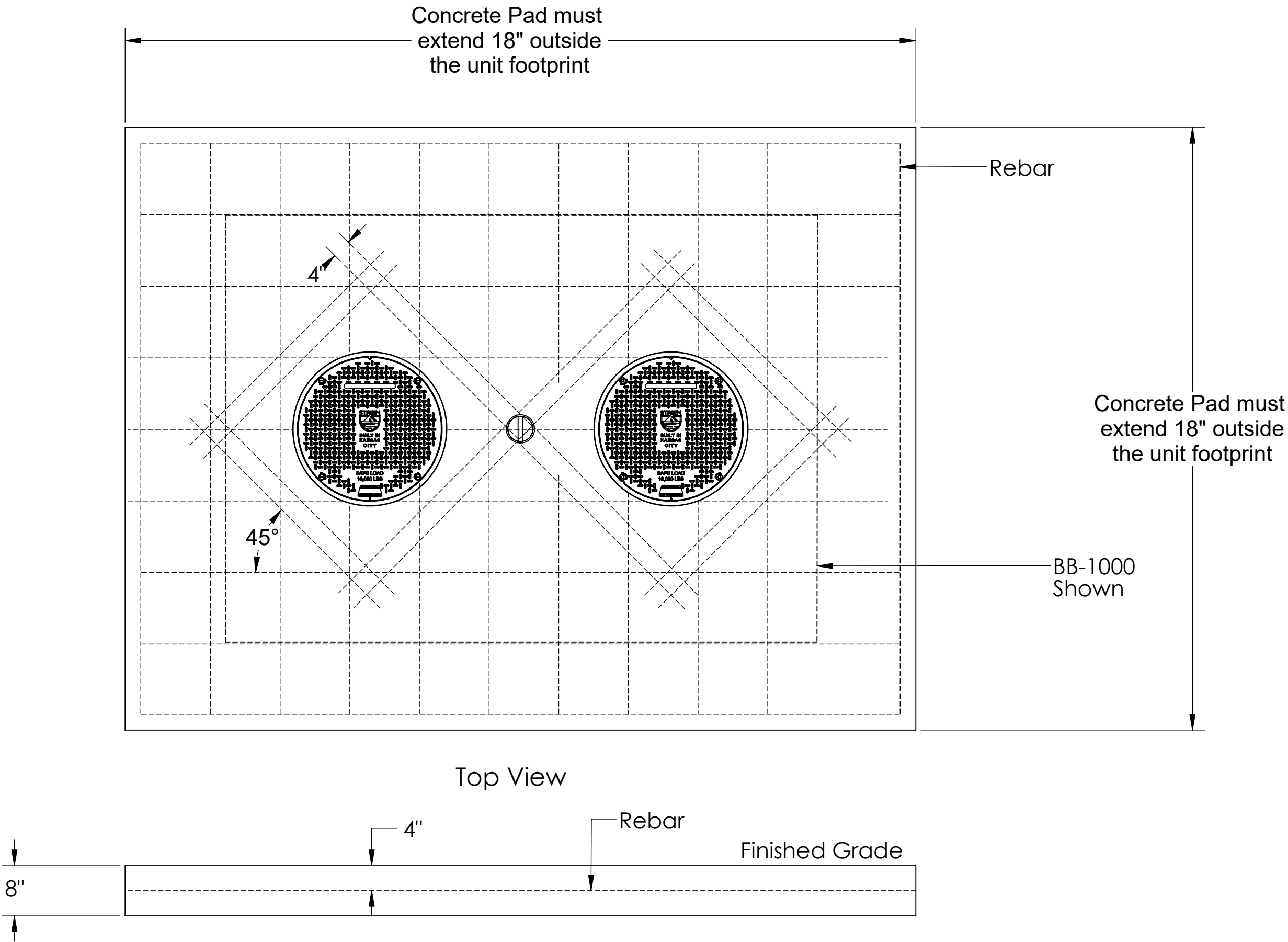
Striem
3100 Brinkerhoff
Kansas City, KS 66115
Tel: 913-222-1500
Fax: 913-291-0457
www.striemco.com

Made in the U.S.A

INTERIOR OR EXTERIOR BELOW GRADE INSTALLATION INSTRUCTIONS
(BB-750, BB-1000, BB-1500)



EXCAVATION AND BACKFILL DETAIL



CONCRETE SLAB DETAIL
(BB-1000 Shown)

EXCAVATION

1. Surrounding soil must be undisturbed soil or well compacted engineering fill.
2. Measure the width and length of the tank and excavate a hole that that is a minimum of 18" greater than the tank on all sides.
3. Depth of excavation shall be 12" deeper than tank bottom.
4. After the excavation is complete create a well compacted support layer of sand/gravel mixture so that ground supporting tank is a minimum of 12" above native soil.

Unit Installation

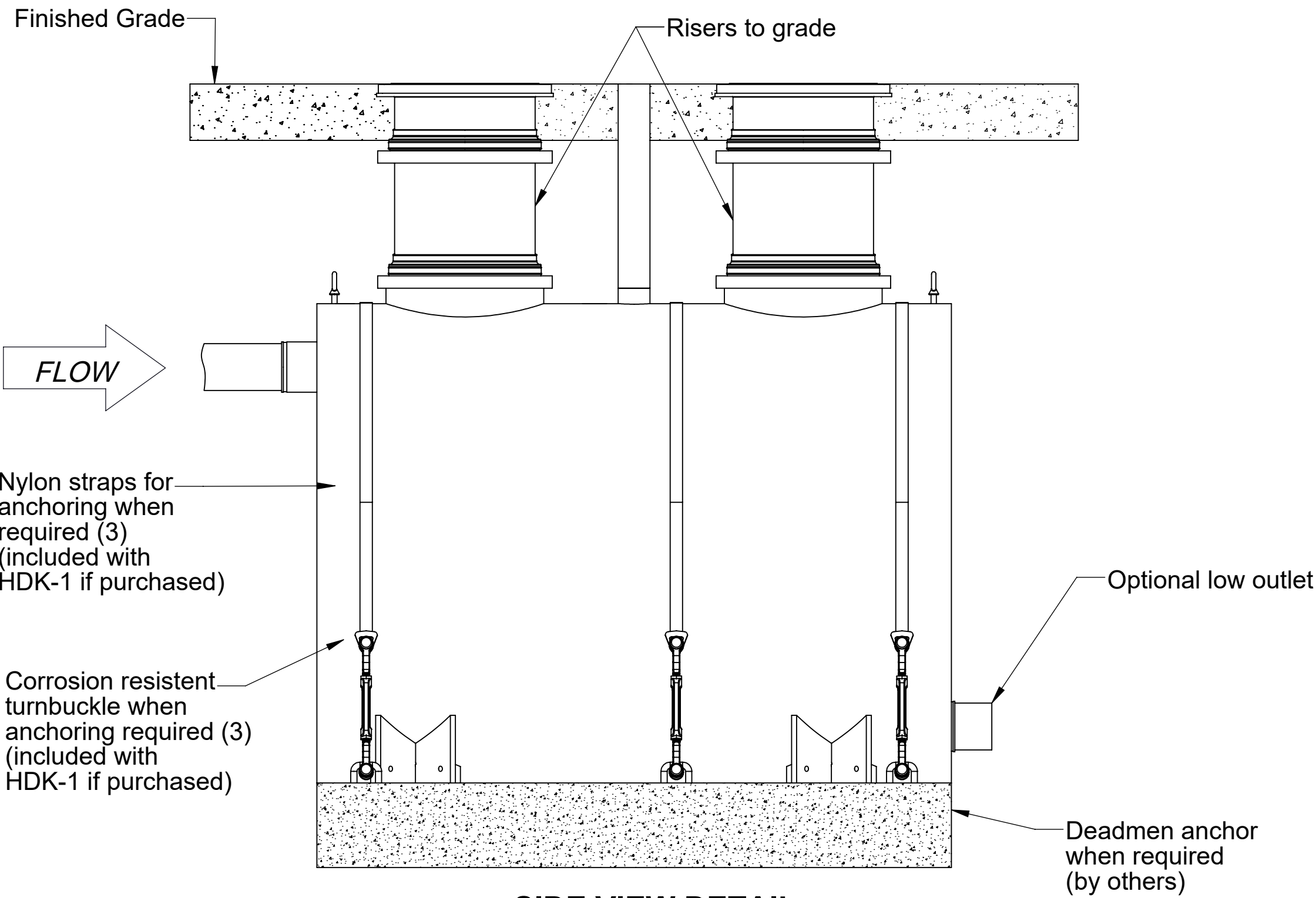
1. Lower and center the unit into hole using lifting lugs or straps around unit. Do not use chains or accessways to move the unit.
2. Ensure the cover tops are level with finished grade.
3. All pipe penetrations to be sleeved or have slip connections..
4. Fill unit with water before backfilling to stablize unit and prevent float out during backfilling

BACKFILLING & FINISHED CONCRETE SLAB

1. Before backfilling and pouring of slab secure covers and risers (if necessary) to the unit.
2. Backfill evenly all around tank using crushed aggregate material approximately 3/4" size rock, or sand, with no fines.
3. When backfilling, ensure backfill is worked under the unit using a probe to ensure the unit is fully supported.
4. Place 6" aggregate base under slab. Aggregate should be 3/4" size rock, or sand, with no fines.
5. Thickness of concrete around cover to be determined by specifying engineer. If traffic loading is required the concrete slab dimensions shown are for guideline purposes only.
6. Concrete to be 28 day compressive strength to 4000 PSI.
7. NO. 4 rebar (ϕ 1/2") grade 60 steel per ASTM A615: connected with tie wire.
8. Rebar to be 2-1/2" from edge of concrete.
9. Rebar spacing 12" grid. 4" spacing around access openings.

Deadmen Anchoring

1. Deadmen should be constructed according to the American Concrete Institute (ACI) code.
2. Deadmen should be 12" wide x 12" tall and equal to the length of the entire unit.
3. Deadmen should have 3 anchor points with turnbuckles and shall be corrosion resistant and rated for a minimum load capacity of 10,000 lbs.
4. Lay the deadmen parallel with the unit and ensure that it is outside the shadow of the tank.
5. Connect nylon strapping to each anchor point. Nylon straps must have a minimum load capacity of 10,000 lbs.



SIDE VIEW DETAIL

DESCRIPTION:

BIO BASIN INSTALLATION,
OPERATION, AND MAINTENANCE GUIDE

SHEET NUMBER: 6 of 7

DWG BY: MJ

DATE: 12/07/18

REV:

ECO:

Striem
3100 Brinkerhoff
Kansas City, KS 66115
Tel: 913-222-1500
Fax: 913-291-0457
www.striemco.com

Made in the U.S.A



Tools included (with base bio basin unit(s))

- 7/16" Nut driver tool/bit
- Silver permanent marker

Tools Needed:

- Tape measure
- Regular or cordless drill with 1/2" chuck

Tools needed if Riser(s) require cutting:

- Jigsaw or
- Cordless circular saw or
- Reciprocating saw

Riser Assembly Instructions/Steps:

1. If unit is to be installed on grade (on-the-floor), there is no need for any adjustments. Unit is ready to be put into service.
2. If unit is to be buried: Once unit is set so that the pipe connections line up with jobsite piping, measure total riser height needed from top of cover to finished grade. Make sure you include any future tile work, etc. that may be installed in your finished grade measurements. See figure 1.
3. Select according risers needed based off Table 1.
4. If risers are needed, remove covers from adapters and remove adapters from main unit by loosening upper clamp with included nut driver bit (lower band is factory set do not adjust or remove). On the floor near the unit, insert adaptor into first riser until it stops. If needed, insert bottom of first riser into top of second riser until it stops. You may need to tighten upper clamps during this step to keep risers from shifting. Adapter and riser(s) should sit level with each other. Removal of cover during this process will ease assembly.
5. From the top of the adapter, measure your needed total riser height downward to the sidewall of the riser. Then, add 6". For example, if you need a 15-1/2" extension, you would measure down from the top of the adapter 21-1/2" (15-1/2" + 6" = 21-1/2"). See Figure 1.
6. Refer to Table1 to determine if, and where, any cuts need to be made. If a cut needs to be made, make a circular line around the sidewall of the riser with the included silver marker at your riser height +dimension from step 5. Using a jigsaw, circular saw or reciprocating saw, cut along your line. Discard/recycle the cutoff scrap.
7. Whether the riser needs to be cut or not, make another mark with the silver marker on the sidewall of the riser a distance of 4 INCHES above the edge just cut. If you did not make a cut (meaning your riser height + dimension from step 5 line was beyond the bottom edge of your riser), still mark the sidewall of the riser 4 INCHES above where your riser height + dimension from step 5 line would have been. DO NOT cut this new line. Once the riser is installed into the main unit, this new line will end up at the top of the gasket and will aid in re-assembly. See Figure 3.
8. IMPORTANT: Before the next step: Refer to sheet 1 of the installation instructions for leak/water testing procedures.
9. Take riser(s) and adapters apart to reduce the weight during installation. Wipe all sidewalls and inside of gasket with a damp cloth to remove jobsite dust/debris. Install components into the main unit starting from the lowest (cut) riser and working your way toward the finished floor level. Upper clamps at each gasket need to be loosened or removed to aid in assembly. Once riser(s)/adapter is inserted into gasket, upper clamp can be tightened.
10. Verify that the bottom of the lowest riser is protruding at least 2-1/2" but no more than 4" into the main unit from the top of the gasket. Your mark from step 7 should be at the top edge of the gasket on the main unit. If measurements were made correctly, this should happen automatically. See figure 4.
11. If tilting of the adapter is required to be flush with finished grade, it must be done AFTER all clamps have been tightened with riser(s)/adaptor in a vertical and level position. Tilting is achieved by using the flexibility of the gasket. If tilting is done before clamps are tightened, a perfect gasket seal may be compromised. Striem recommends tilting only the adapter versus the entire riser assembly to make sure your riser height is maintained.
12. Tighten all clamps to a minimum of 5 and a maximum of 8 ft lbs. of torque. Use the same torque as you would tighten a rubber no-hub coupling.
13. The adapter must be adjusted upward to achieve certain extension heights. See Table 1
14. If jobsite riser height conditions change after the above steps have been completed, there may still be room for vertical adjustment in both directions. As long as minimum and maximum overlaps are maintained (see Figure 4), the adapters/risers can be adjusted/cut as many times as necessary. Please follow these steps from the beginning to ensure the proper overlaps are maintained.

TeleGlide Riser (24 Series) Installation Guidelines
(BB-275, BB-500, BB-750, BB-1000, BB-1500)

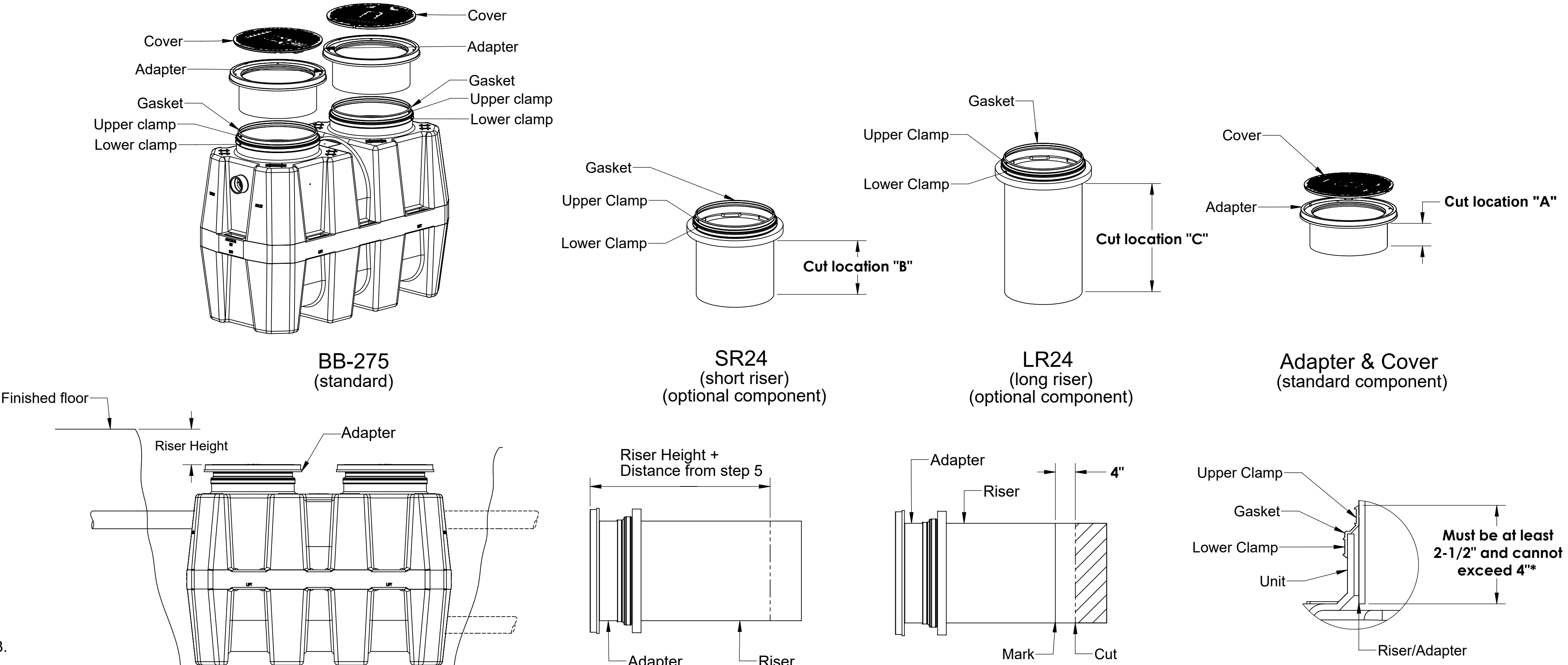


Figure 1

Figure 2

Figure 3

Figure 4

Table 1				
Riser Height Needed	Riser P/N Needed	Riser Qty. Needed		Cut Location(s) (See figures above)
		BB-500	BB-275, BB-750, BB-1000, BB-1500	
0" to 6"	None	0	0	None
>6" to 8-1/4"	SR24	1	2	a,b
>8-1/4" to 19-3/4"	SR24	1	2	b
>19-3/4" to 24"	SR24	1	2	None ¹
>24" to 35"	LR24	1	2	c
>35" to 39"	LR24	1	2	None ²
>39" to 43"	SR24	2	4	b
>43" to 51-1/2"	SR24	1	2	c
	LR24	1	2	
>51-1/2" to 58"	SR24	1	2	None ³
	LR24	1	2	
>58" to 66-1/2"	LR24	2	4	c
>66-1/2" to 72"	LR24	2	4	None ⁴

1. Adjust adapter upwards to reach 22" to 24"
2. Adjust adapter upwards to reach 37" to 39"
3. Adjust adapter upwards to reach 56" to 58"
4. Adjust adapter upwards to reach 70" to 72"

DESCRIPTION:

BIO BASIN SERIES INSTALLATION,
OPERATION AND MAINTENANCE GUIDE

SHEET NUMBER: 7 of 7

DWG BY: MJ

DATE: 12/07/18

REV:

ECO:

NOTES:

Striem Decontamination tanks are not to be installed in any other manner except as shown. Consult local codes for separate trapping requirements, cleanout locations and additional installation instructions.

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF STRIEM, LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF STRIEM, LLC, IS PROHIBITED.

Striem
3100 Brinkerhoff
Kansas City, KS 66115
Tel: 913-222-1500
Fax: 913-291-0457
www.striemco.com

Made in the U.S.A

