

London Boulder

London Boulder

Product Drawings

14 sheets | Issued October 2026

Tri-Kon Precast Products Ltd.

601 Patterson Street West, Cranbrook BC V1C 6T3

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Made in Cranbrook, in BC's East Kootenay.

Delivered across Western Canada.

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Standard Drawings

14 drawing sheets

Consistent 11 x 17 landscape catalog

A retaining wall block that fits together course by course, so walls go up quickly. Accessory blocks cover the special cases.

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	CATALOG REFERENCE TK-LB-COVER	SHEET Cover
	DESCRIPTION A retaining wall block that fits together course by course, so walls go up quickly. Accessory blocks cover the special cases.	SHEET FORMAT 11 x 17 in / Landscape	UNITS / SCALE As noted / Do not scale
	APPROX. WEIGHT - SOURCE VALUES ONLY Weights are listed on individual sheets where stated in the source.	ORIGINAL SOURCE DATE Not applicable	LAYOUT UPDATED ONLY 2026-10-05



SHEET INDEX

PRODUCT REFERENCE / DO NOT SCALE

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Drawing directory

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

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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 directory	CATALOG REFERENCE TK-LB-INDEX	SHEET Index / 14 drawings
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London Boulder

Big Block Landscape Solutions

THIRD-PARTY REFERENCE

PRODUCT REFERENCE / DO NOT SCALE

BIG BLOCK LANDSCAPE SOLUTIONS



When you're looking for a retaining wall, consider the London Boulder big block system. Our big block systems are designed to last, look great and save you money.

Here are just a few benefits of the London Boulder system:

- Fast Installation
- Minimal Excavation
- Staining Designs Available
- Unmatched Strength
- Limitless Configurations



One of the biggest benefits of the London Boulder big block systems is the ability to tier property for parking or additional land space. Another benefit is to keep land from washing away near a water application.

With this block system you can create:

- Retaining Walls
- Drainage Retaining Walls
- Free Standing Walls
- Water Walls



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DRAWING / PRODUCT NAME

Big Block Landscape Solutions

DESCRIPTION

Original reference: Big Block Landscape Solutions. Technical notes and source identification are preserved.

APPROX. WEIGHT - SOURCE VALUES ONLY

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

CATALOG REFERENCE

TK-LB-001

SHEET FORMAT

11 x 17 in / Landscape

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As recorded in original

SHEET

01 / 14

UNITS / SCALE

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2026-10-05



London Boulder

About The London Boulder System

THIRD-PARTY REFERENCE

PRODUCT REFERENCE / DO NOT SCALE

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Tri-Kon Precast Concrete Products has been providing BC and Alberta quality precast components since 1972.

Are you wondering if the London Boulder big block wall system is right for your project? We can help. Contact the Tri-Kon team directly at: 250-426-8162



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DRAWING / PRODUCT NAME

About The London Boulder System

DESCRIPTION

Original reference: About The London Boulder System. Technical notes and source identification are preserved.

APPROX. WEIGHT - SOURCE VALUES ONLY

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

CATALOG REFERENCE

TK-LB-002

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

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02 / 14

UNITS / SCALE

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Design Considerations

When bringing a project from idea to reality, careful planning at the early stages goes a long way toward minimizing costs, repairs and other project setbacks. Proper consideration of construction site features, obstacles and constraints is essential for a cost-effective design and will influence the final product.

UNREINFORCED HEIGHT LIMITS FOR THE LONDONBOULDER 42" BLOCK

Assumptions related to engineering:

- No surcharge or back slope present
- Soil unit weight of 120 pcf
- Minimum 1' embedment
- Backfill compacted to minimum 95% of the standard Proctor maximum dry density.
- Safety factors: 1.5 against sliding; 2.0 against overturning
- Heights apply only to soil type with indicated friction angles
- Construction follows adequate industry practice



TIP - Save time and money by incorporating the LB60 and LB52 blocks into the base of a LB42 wall configuration. This allows for taller heights without extensive excavation and having to use of geogrid reinforcements. See photo below.

The following chart represents height limits related to vertical or setback walls constructed in soil with varying degrees of friction angles. Chart does not include checks for global stability or presence of water.

SOIL	NO SETBACK	2" SETBACK	6" SETBACK
$\phi = 26^\circ$	7.5'	10.5'	12'
$\phi = 28^\circ$	7.5'	10.5'	12'
$\phi = 30^\circ$	9.0'	12'	13.5'
$\phi = 32^\circ$	9.0'	12'	13.5'
$\phi = 34^\circ$	10.5'	13.5'	15'

This chart is for estimating tasks and reference only.

It is the user's responsibility to ensure that a final, project-specific design is reviewed, approved, and certified by a registered Professional Engineer, based on actual soil conditions. It is the project owner's responsibility to ensure the adequacy of the designed retaining wall incorporated into the overall project through a specification. The specification should include factors which affect the overall integrity of the retaining wall such as location, interaction with other project components, and engineering aspects including but not limited to site soil bearing capacity, global slope stability, presence of underground or surface water, etc. Specification of excavation, trenching or any other construction procedures and corresponding safety specifications are the responsibility of the installer, who shall adhere to sound industry practice and provide additional support during construction if needed.



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



London Boulder

Design Considerations: Water

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PRODUCT REFERENCE / DO NOT SCALE

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Design Considerations



WATER

One crucial site characteristic that must be checked before any design is carried out is the presence of groundwater. The presence of a water table too close to the bottom of the foundation pad (less than 2/3 the height of the wall), or suspicion of a seasonally shifting water table can dramatically reduce the integrity of the wall if left unchecked.

Also, be sure to check for the presence of waterways or moving floodwaters that could cause scour of the foundation at the bottom of the wall. Make sure that terrain features do not bring surface water near the wall. If that is the case, the design should include details to ensure water gets diverted from the structure. These include swales over and around the top of the wall, slopes,"curling" the ends of the wall into the slope or bank, impervious soil tightly compacted at key locations, etc. These provisions should not be confused with internal drainage within the wall structure, typically comprised of granular aggregate drainage directly behind the wall face, drain tile pipes, and chimney drains behind the reinforced soil mass.



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DRAWING / PRODUCT NAME

Design Considerations: Water

DESCRIPTION

Original reference: Design Considerations: Water. Technical notes and source identification are preserved.

APPROX. WEIGHT - SOURCE VALUES ONLY

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

CATALOG REFERENCE

TK-LB-006

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

As recorded in original

SHEET

06 / 14

UNITS / SCALE

As noted / Do not scale

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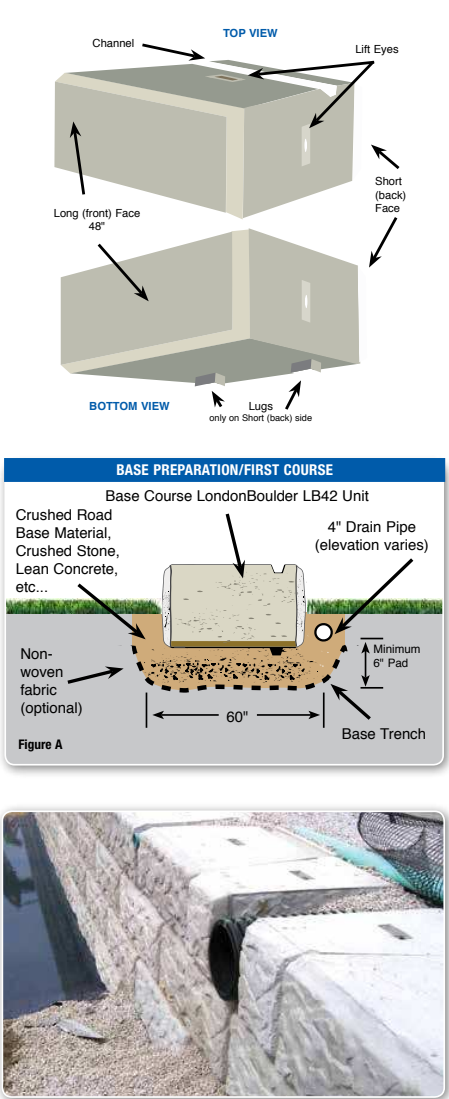
Installation Overview

EXCAVATION/BASE PREPARATION

1. LondonBoulder recommends that wall elevations be set using a laser level and stakes prior to excavation. This will greatly enhance the efficiency and accuracy of the entire project.
2. Foundation soil shall be excavated to the lines and grades of the construction drawings and as required for base course installation. Use caution to ensure that the foundation is not disturbed beyond the indicated depths. As shown in **Figure A**, base trench shall be excavated to a minimum of 60" wide and 6" deep for the LB42 Units. Use compacted backfill material to fill over-excavated areas. It is permissible to use a layer of non-woven landscape fabric along the three sides of the trench to maintain a barrier between the surrounding foundation and the base material to be put down later.
 - a. Using granular, inorganic material such as crushed road base material, crushed stone, or recycled concrete, place the base leveling pad in the excavated trench such that it maintains a width of 60" and a minimum depth of 6" after compaction. Compaction should meet or exceed 95% Standard Proctor and should be achieved through the use of a mechanical plate compactor.
 - or -
 - b. Concrete may be substituted for the granular base material. Granular base material may also be top-dressed with a minimum 3" thick layer of lean and unreinforced concrete. Reinforced footings must be placed below the frost line.
4. Final base must be uniform, level, and well compacted to provide the best possibility for a smooth, hassle-free wall installation. Achieving this standard in the base will also help to limit the number of future repairs that may be necessary due to sections of sagging wall and other base-related failures.
5. Level compacted base material from side to side and front to back.
6. A drainage pipe should be installed in all walls. The drainage collection pipe should daylight into a storm sewer manhole or to a sloped area lower than the pipes behind the walls. The main collection drainpipe just behind the block facing shall be a minimum of 4" in diameter. **See Figure D on page 12.**

Recommended Construction Tolerances		
Vertical	± 1" / 10 ft	3" maximum
Horizontal	Straight lines: ± 1" / 10 ft	3" maximum
Rotation	From design wall batter: 2°	
Bulging	1.00" / 10 ft	

ANATOMY OF THE LONDONBOULDER



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DRAWING / PRODUCT NAME

Installation: Excavation and Base Preparation

DESCRIPTION

Original reference: Installation: Excavation and Base Preparation. Technical notes and source identification are preserved.

APPROX. WEIGHT - SOURCE VALUES ONLY

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

CATALOG REFERENCE

TK-LB-008

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

As recorded in original

SHEET

08 / 14

UNITS / SCALE

As noted / Do not scale

LAYOUT UPDATED ONLY

2026-10-05

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SETTING THE FIRST COURSE

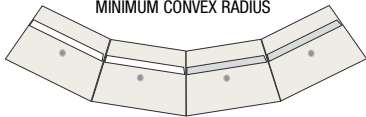
1. Always start the base course at the lowest elevation of the wall, if possible. In the case of a base elevation that varies, refer to **Figure C**. LondonBoulder recommends a two block overlap when stepping up from one course to the next.
2. Place the first course of LondonBoulders directly on the leveling base pad, check to ensure that they are properly aligned and leveled. The bottom surface of each unit should be in full contact with the base. If units have lugs, removing them may be preferred prior to placing as base course. Adjacent units should be in contact with one another at the front face if constructing a retaining wall, and along all inside edges if constructing a partition wall (this is accomplished by reversing every other trapezoidal unit inside the two end units).
3. Alignment of a straight wall may be best achieved by using a string line or laser level on the machined edge of the blocks. If building a convex or concave wall, it may be helpful to run a radius string from an established center point. **See Figure B** for minimum radius information.
4. Place perforated or slotted PVC or corrugated HDPE pipe behind the course providing the optimal drainage of LondonBoulder units. LondonBoulder recommends that the drain pipe be at least 4" in diameter and surrounded by a minimum of 1 foot of drainage stone. In special situations where water and drainage play a bigger role in the design, "weep holes", larger drainage stone, larger drain pipe with sock, and/or filter fabric behind the drainage stone may be warranted. Contact a P.E. for recommendations and details.

TOP VIEW - CURVED RETAINING WALL

Minimum Convex Radius with Setback

Courses	R (*)
1	10'-09"
2	11'-05"
3	12'-00"
4	12'-08"
5	13'-04"
6	14'-00"
7	14'-07"
8	15'-03"
9	15'-11"
10	16'-07"
11	17'-03"
12	17'-10"
13	18'-06"
14	19'-02"
15	19'-10"
16	20'-06"

MINIMUM CONVEX RADIUS



CONCAVE RADIUS



Figure B (*) Top course or one-course wall leave a 1/4" gap at the back of the block.

TYPICAL STEPPING-UP BOULDER CONSTRUCTION DETAIL

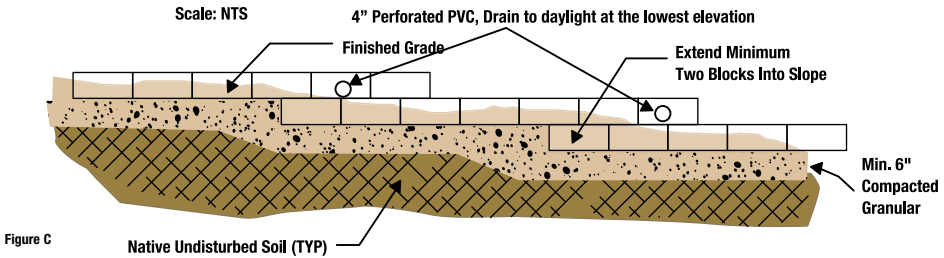


Figure C

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DRAWING / PRODUCT NAME

Installation: Setting The First Course

DESCRIPTION

Original reference: Installation: Setting The First Course. Technical notes and source identification are preserved.

APPROX. WEIGHT - SOURCE VALUES ONLY

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

CATALOG REFERENCE

TK-LB-009

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

As recorded in original

SHEET

09 / 14

UNITS / SCALE

As noted / Do not scale

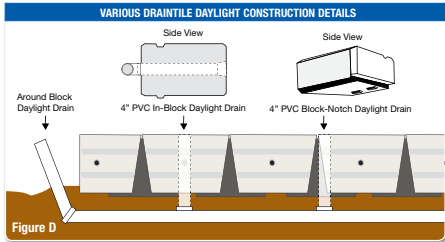
LAYOUT UPDATED ONLY

2026-10-05

Installation Overview

BACKFILL

1. All drainage material in the drainfield and infill soils within 3 feet of the wall must be properly compacted. Use appropriate compaction equipment for the soils.
2. Compact in maximum 6" lifts – i.e. compaction should occur a minimum of 2 times with each course of LondonBoulder units set.
3. Place drainage aggregate behind and up to the height of the LondonBoulder wall. Drainage aggregate shall be placed to a minimum thickness of 12" measured from the back of the LondonBoulder unit. Reference photo to the right.
4. If installing a retaining wall, it is likely that there will be triangular voids between each LondonBoulder that are caused by the trapezoidal shape of the units. (Note that this void will not be present if installing a partition wall). Fill this void with 3/4" - 1 1/2" crushed rock or as specified on your project.
5. Large rock and fat clay soils should generally be avoided as backfill material unless approved by a qualified engineer. In addition, soils that are excessively wet, dry, frozen, or inundated with debris should not be used.
6. If required, install geotextile filter fabric between the compacted backfill material and compacted infill soil.
7. If using geogrid reinforcement, be sure to avoid using compacting equipment directly on geogrid. Place the next 6" lift of soil on top of the grid before compacting.



INSTALLING SUCCESSIVE COURSES

1. Ensure the drainage aggregate is level with, or slightly below the top of the LondonBoulder unit.
2. Clean all excess material from the top of the units as well as any debris that may have fallen into the channels that run parallel across the top of each LondonBoulder. Even a small stone can create unevenness or a wobble.
3. Place the next row of LondonBoulder units with the seams offset from the seams of the units below.
4. If installing a 6" setback place the lugs to engage the back edge of the units below. 2" and 0" setback LondonBoulders are manufactured for the lugs to set into the channel of the unit below.
5. Set up a string line horizontally down the wall to ensure wall straightness. Adjust units as needed to form straight lines and smooth curves. Make sure to check each block to certify that it is level from front to back and side to side. Adjust if necessary. Qualified geogrid material can be used as a shim to make minor corrections in level.
6. Place drainage aggregate and infill soil as stated previously.
7. Repeat these steps until the wall reaches its final height.



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DRAWING / PRODUCT NAME

Installation: Backfill and Successive Courses

DESCRIPTION

Original reference: Installation: Backfill and Successive Courses. Technical notes and source identification are preserved.

APPROX. WEIGHT - SOURCE VALUES ONLY

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

CATALOG REFERENCE

TK-LB-010

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

As recorded in original

SHEET

10 / 14

UNITS / SCALE

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LAYOUT UPDATED ONLY

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USING THE GEOGRID SYSTEM

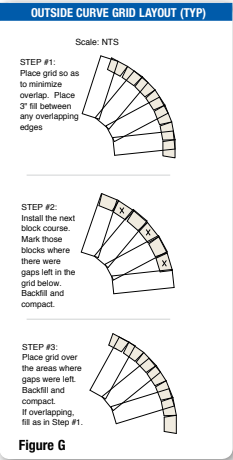
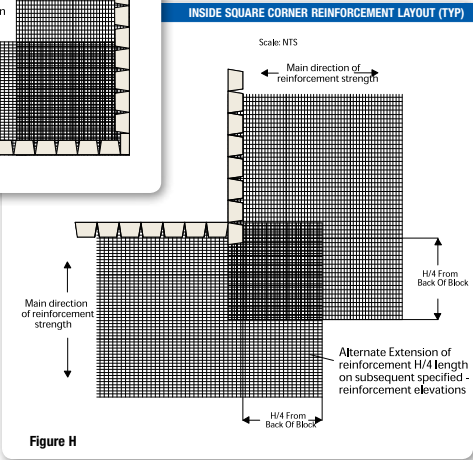
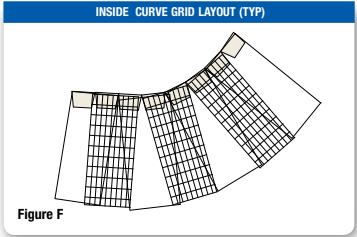
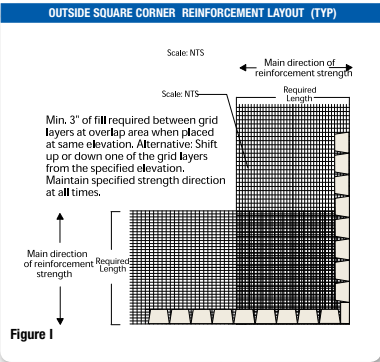
1. Install units up to the designated height of the first grid layer, making sure to backfill and compact behind the wall to a depth equal to the designed grid length.
2. Cut grid to design length as shown on the plans. Make sure the grid is positioned on the top of the unit course 2" to 3" from the face. This will help to keep each successive course flat. Install the grid with the design strength direction perpendicular to the wall face. Seams or overlaps of grid parallel to the wall face are not permitted.
3. The geogrid reinforcement must be laid level upon the block and upon level backfill, compacted to 95% Standard Proctor density.
4. Remove all slack in the geogrid, then anchor it to the compacted backfill and place the next level of LondonBoulders and backfill. These units should be placed on top of the grid.
5. Only hand-operated equipment should be allowed within 3 feet of the wall. Track construction equipment shall not be operated on less than 6" of compacted infill material.

GEOGRID LAYOUT IN CURVES AND CORNERS

Curves and corners in designs need additional considerations for the correct layout of the reinforcing grid. Interior corners will invariably leave gaps between grid layers, due to the curvature. To cover these gaps, install additional reinforcement in places where gaps occur on the next course above prior to backfilling. **See Figure F.**

In addition, square corners require that the 90° gap be filled with an extension of the reinforcing sheet equal to 25% of the total wall height, on alternate sides of the gap as you go up. **See Figure H.** If it's not possible to add on the next course to put 3" of fill between the grid layers.

In contrast, exterior corners will always cause reinforcing grids to overlap, which in turn dramatically reduces the load carrying capacity of the grid. To correct this, a minimum of 3" fill must be placed between sheets at those overlap areas prior to backfilling that lift, as shown in **Figure G, and Figure I.**



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DRAWING / PRODUCT NAME

Installation: Geogrid, Curves and Corners

DESCRIPTION

Original reference: Installation: Geogrid, Curves and Corners. Technical notes and source identification are preserved.

APPROX. WEIGHT - SOURCE VALUES ONLY

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

CATALOG REFERENCE

TK-LB-011

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

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SHEET

11 / 14

UNITS / SCALE

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Special Situations

CAPPING

1. Make sure the surface of the Cap Boulder, and the block the Cap Boulder is being placed on, is dry and free of debris.
2. Set cap unit in the same manner as LondonBoulder units.
3. The back side of the Cap Boulder is recessed 8 inches to allow for the application of soil, sod, rock, mulch or any other fill material the end user deems necessary. The Cap Boulder's sides are tapered to allow for a radius wall if desired. LondonBoulder also offers a 6" cap boulder as an alternative for capping. 6" caps are designed to be placed on the top course using concrete adhesive between it and the course below.
4. Each end of a course of Cap Boulders can be finished with a Left and/or Right Cap Corner.
5. Careful consideration must be taken when using the Cap Corner units at both ends of a wall with two 90° corners. Given the set dimensions of the Cap Corners at 24", some calculations must be made to ensure that it is possible to fit a set number of units between the two end units. Cutting of Cap Boulders may be required to maintain running bond or to get all caps to fit without gaps.

CAP BOULDER



CAP CORNER BOULDER



90 DEGREE CORNERS

Utilizing its rebar pinning method, LondonBoulder's 90° Return Corner provides a simple, 1-unit system to turn a 90° corner without losing retention strength. Each 90° Return Corner is manufactured with a 3" hole running vertically through the unit. By alternately "flipping and turning" each course, these holes will create a corner core into which rebar can be inserted. Since these units are manufactured without lugs for versatility, the rebar pinning system serves as the shear connection for a strong, reliable corner. **See Figure J.**

This method of achieving 90° Corners also continues the 1/2 bond both directions, creating a consistent finish.

90 DEGREE
RETURN BOULDER



90 DEGREE CORNER

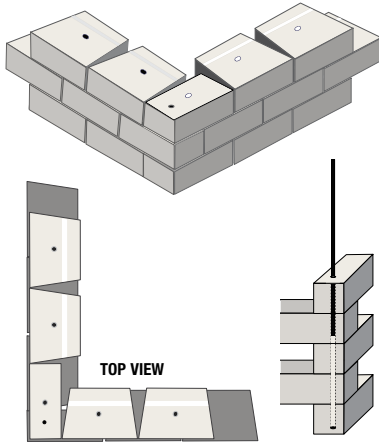


Figure J

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DRAWING / PRODUCT NAME

Special Situations: Capping and 90 Degree Corners

DESCRIPTION

Original reference: Special Situations: Capping and 90 Degree Corners. Technical notes and source identification are preserved.

APPROX. WEIGHT - SOURCE VALUES ONLY

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

CATALOG REFERENCE

TK-LB-012

SHEET FORMAT

11 x 17 in / Landscape

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SHEET

12 / 14

UNITS / SCALE

As noted / Do not scale

LAYOUT UPDATED ONLY

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FREE-STANDING PARTITION WALL

With a combination of unique and versatile features including vertical capabilities and a textured face on two sides, the LondonBoulder line can be easily turned into a free standing partition wall.

Incorporate a curved freestanding wall into your design with the LB28 Dual Face Core units. Simply trim the tabs to fit the desired curves. See inset photo below.

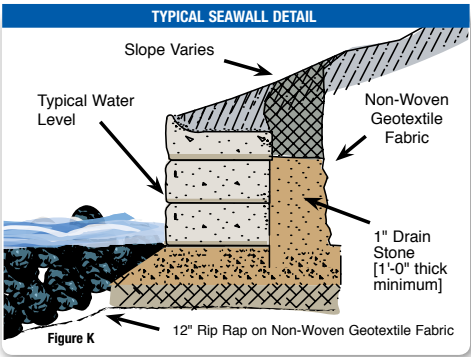


TIP - Create a custom curved freestanding BIG Block wall by simply cutting the tabs of the LB28 Dual Face Core units. See inset below.



SEAWALL

With minor changes to the base leveling pad and the addition of rip rap, LondonBoulder walls can be installed in water settings. However, due to the variety of site-specific variables and restrictions, no wall height charts can be provided for seawall applications. Consult your P.E. for specific details and stamped drawings. **See Figure K.**



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DRAWING / PRODUCT NAME

Free-Standing Partition Walls and Seawalls

DESCRIPTION

Original reference: Free-Standing Partition Walls and Seawalls. Technical notes and source identification are preserved.

APPROX. WEIGHT - SOURCE VALUES ONLY

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

CATALOG REFERENCE

TK-LB-013

SHEET FORMAT

11 x 17 in / Landscape

ORIGINAL SOURCE DATE

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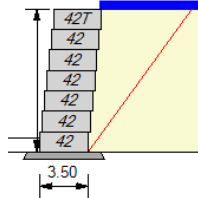
13 / 14

UNITS / SCALE

As noted / Do not scale

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2026-10-05

TRIKON Precast Concrete Products London Boulder Wall Design Overview THIRD-PARTY REFERENCE PRODUCT REFERENCE / DO NOT SCALE	
1 2 3 4 5 6 7 8 Wall Design Overview UNREINFORCED / REINFORCED When it comes to flexibility in unreinforced and reinforced BIG Block walls, we have you covered. LondonBoulders fully engineered BIG Block walls system provides you with unmatched flexibility without breaking the bank. We've created typical wall construction detail drawings to help determine which engineered solution is best for your application. For immediate access, visit us online at: www.LondonBoulder.com/drawings All files are available as PDF and dwg formats. YOU DON'T ALWAYS HAVE TO USE GEOGRID ON TALL WALLS. Our fully engineered BIG block system allows you to build walls up to 10.5' without the additional cost and expense that geogrid produces. Wall cross sections below are using ideal soil, surcharge, slope and safety factors in the design 10.5' Tall  LB42™  The LB42 units can build an unreinforced wall up to 10.5' The LB42 are the primary blocks for most BIG Block walls. All shapes are engineered to fit together for strength and flexibility. 12164_LB Engineering Guide 2016_V3.2.indd 16 2/16/16 4:23 PM	
Tri-Kon Precast Products Ltd. 601 Patterson Street West Cranbrook BC V1C 6T3 250-426-8162 info@trikonprecast.com trikonprecast.com DRAWING / PRODUCT NAME Wall Design Overview DESCRIPTION Original reference: Wall Design Overview. Technical notes and source identification are preserved. APPROX. WEIGHT - SOURCE VALUES ONLY See drawing / confirm with Tri-Kon; no weight estimated.	CATALOG REFERENCE TK-LB-014 SHEET FORMAT 11 x 17 in / Landscape ORIGINAL SOURCE DATE As recorded in original SHEET 14 / 14 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).	