Note: Image shown does not exactly match the detail within this design.

TREMRON
WE MAKE IT EASY

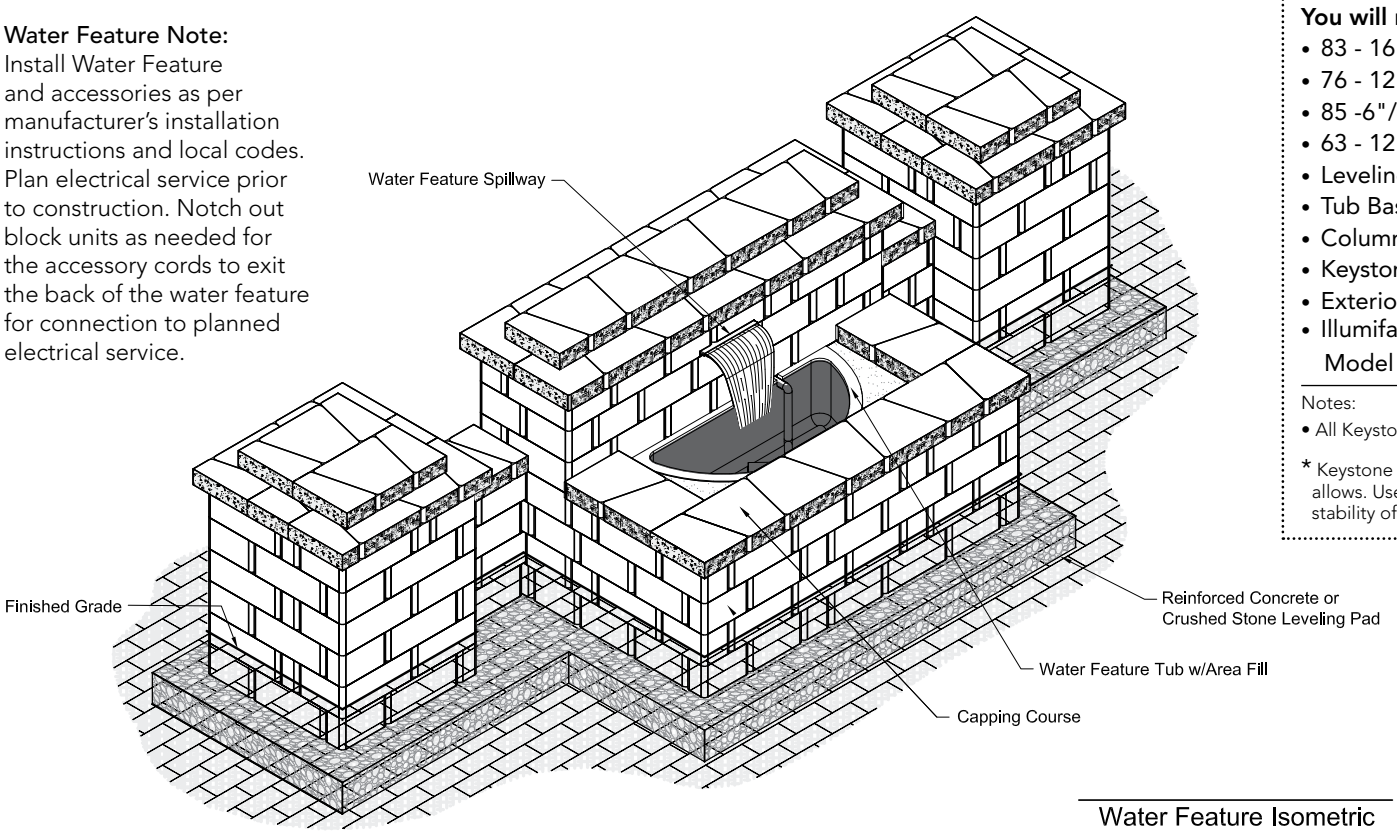
WATER FEATURE WITH COLUMNS INSTALLATION INSTRUCTIONS

Stonegate®

BASIC TOOLS

SAFETY		ALTERATIONS		LAYOUT		FINISHING		LEVELING		GENERAL		
Gloves	Safety Glasses	Stone Chisel	Mallet	Layout Stakes	Line	Caulking Gun	Concrete Adhesive	Level	Mallet	Shovel	Wheelbarrow	Hand Compactor

Water Feature Note:
Install Water Feature and accessories as per manufacturer's installation instructions and local codes. Plan electrical service prior to construction. Notch out block units as needed for the accessory cords to exit the back of the water feature for connection to planned electrical service.



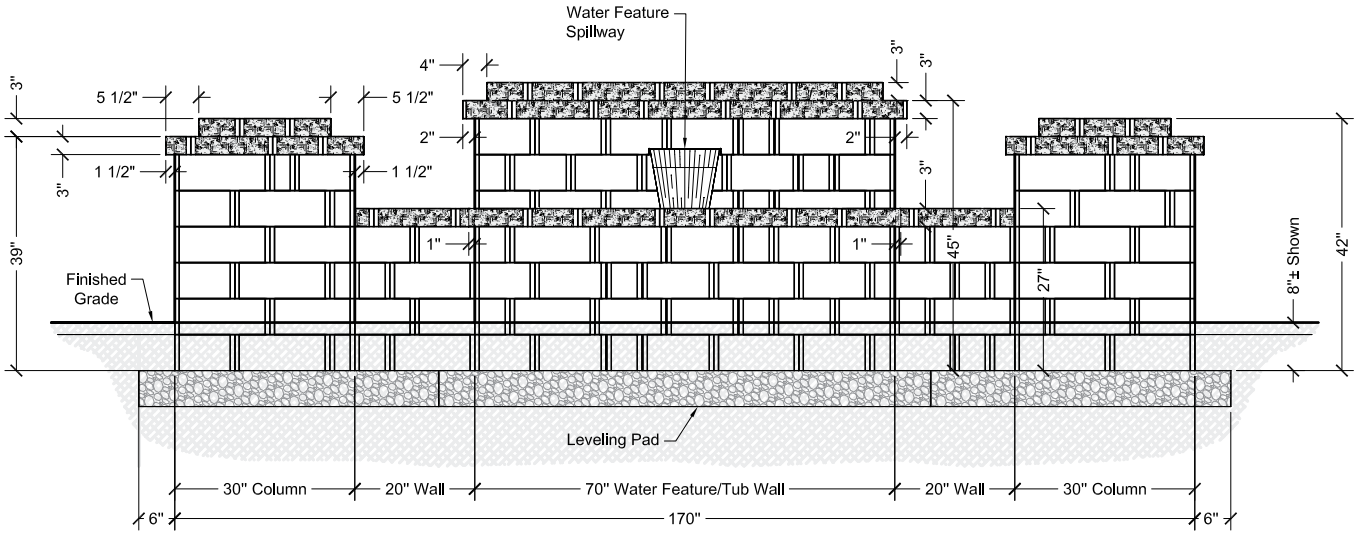
Water Feature Isometric

You will need:
- 83 - 16"/14"w Large Stonegate units
- 76 - 12"/10"w Medium Stonegate units
- 85 -6"/4"w Small Stonegate units
- 63 - 12"/10"w Country Manor/Stonegate Cap units
- Leveling Pad Material - 31.7 cf
- Tub Base Fill - 7 cf
- Column Fill Material - 4.2 cf
- Keystone Interlocking Shouldered Pins* (approx. 350)
- Exterior Grade Concrete Adhesive
- Illumifalls™ 12" Smartfall & Waterkit Shown: Model #: AISB12K

Notes:
- All Keystone Stonegate units are 6"h x 10"d.

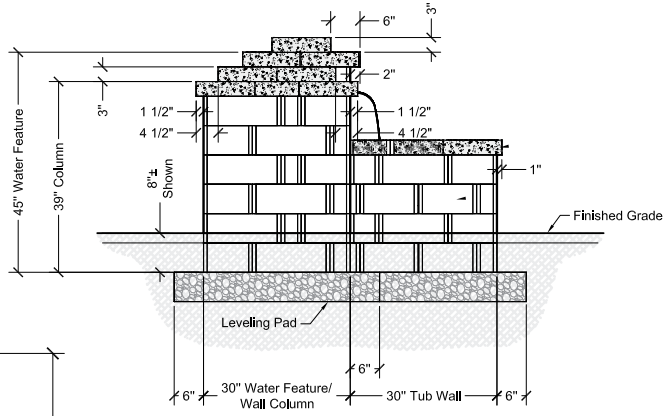
* Keystone recommends the use of its interlocking pins when alignment allows. Use pins in conjunction with concrete adhesive to maximize stability of your structure.

Outdoor Water Feature Kit Placement:
Outdoor Water Feature may be placed directly on a stable patio surface or be supported by a concrete or crushed stone leveling pad below grade. Below grade leveling pad show here. Adjust height as desired.
Add courses below grade if required.

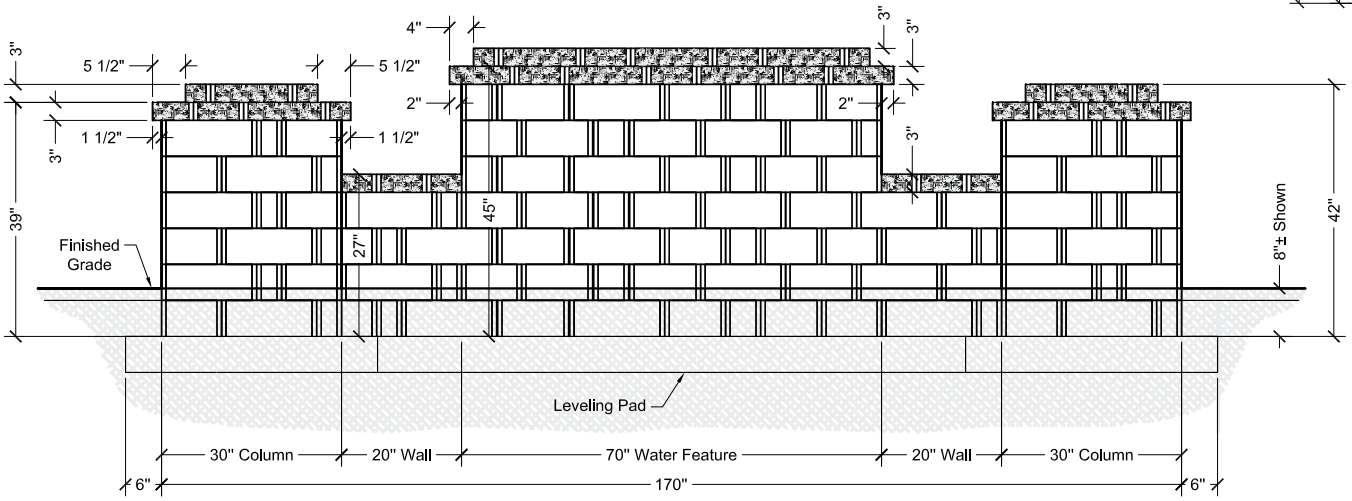


Water Feature Front Elevation

General Note:
In consideration of freeze / thaw issues during the cold weather season it is recommended that this outdoor Water Feature element be protected from rain, snow and ice as necessary.

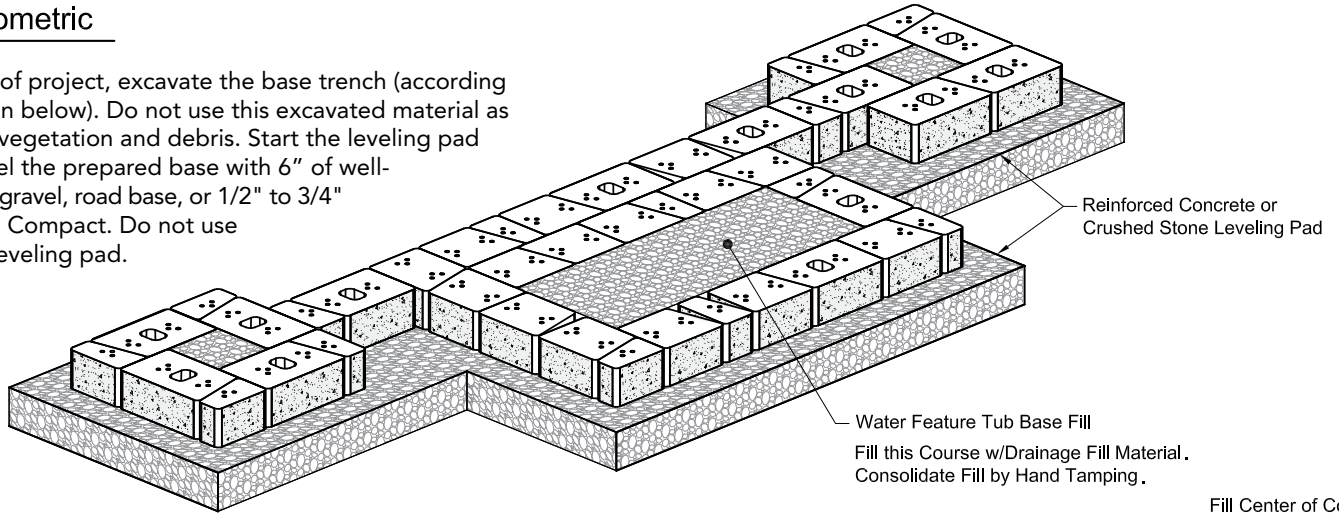


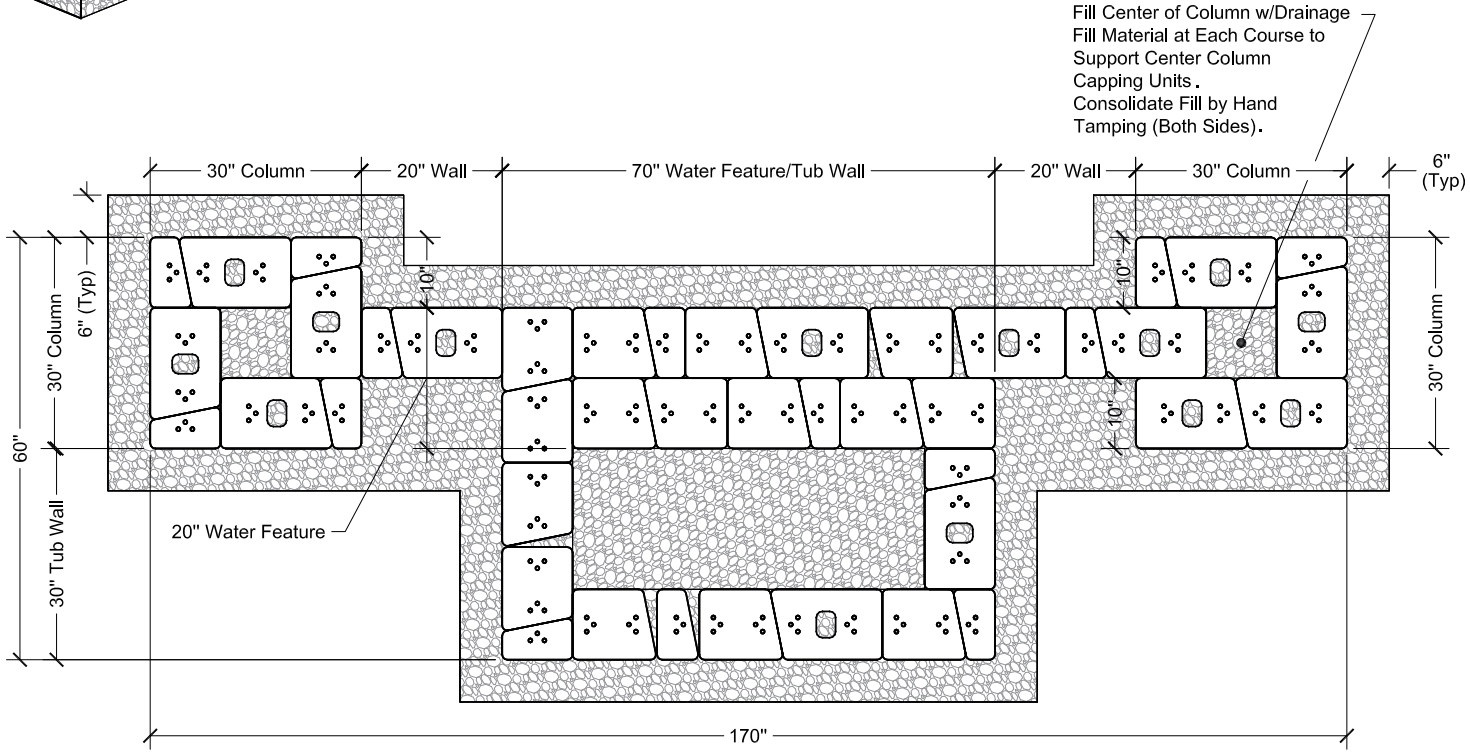
Water Feature Side Elevation



1st Course / Base Isometric

After selecting the location of project, excavate the base trench (according to the dimensions in the plan below). Do not use this excavated material as backfill. Remove all surface vegetation and debris. Start the leveling pad at the lowest elevation. Level the prepared base with 6" of well-compacted granular fill (ex. gravel, road base, or 1/2" to 3/4" [10 - 20 mm] crushed stone). Compact. Do not use PEA GRAVEL or SAND for leveling pad.



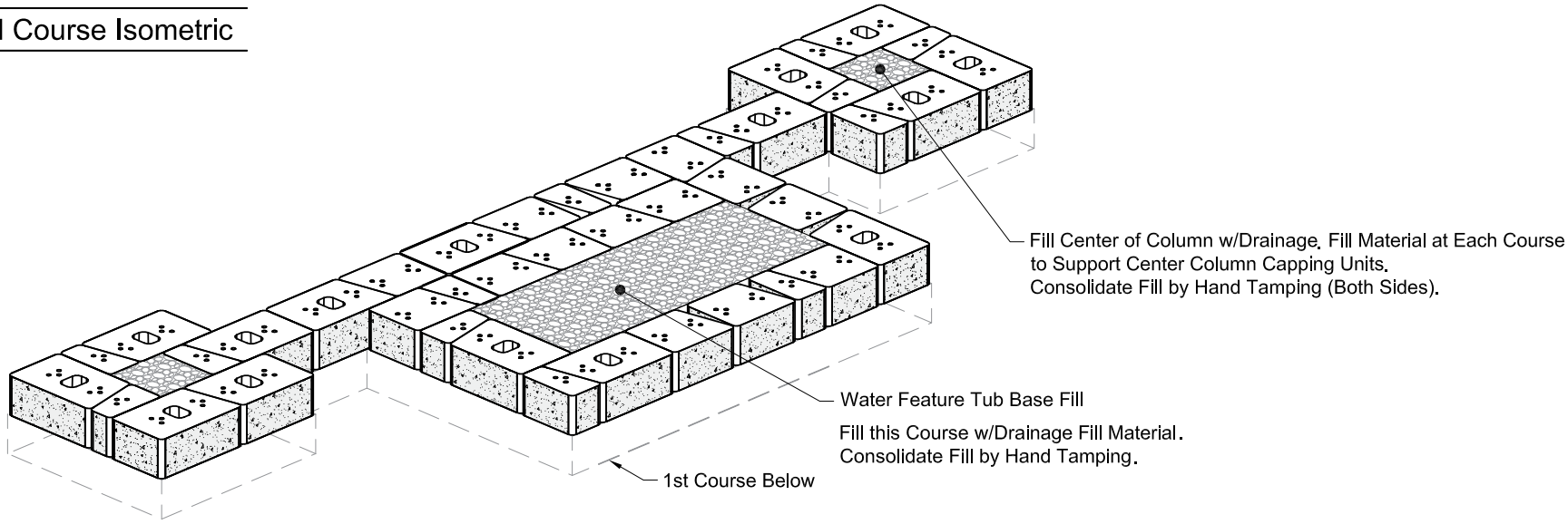


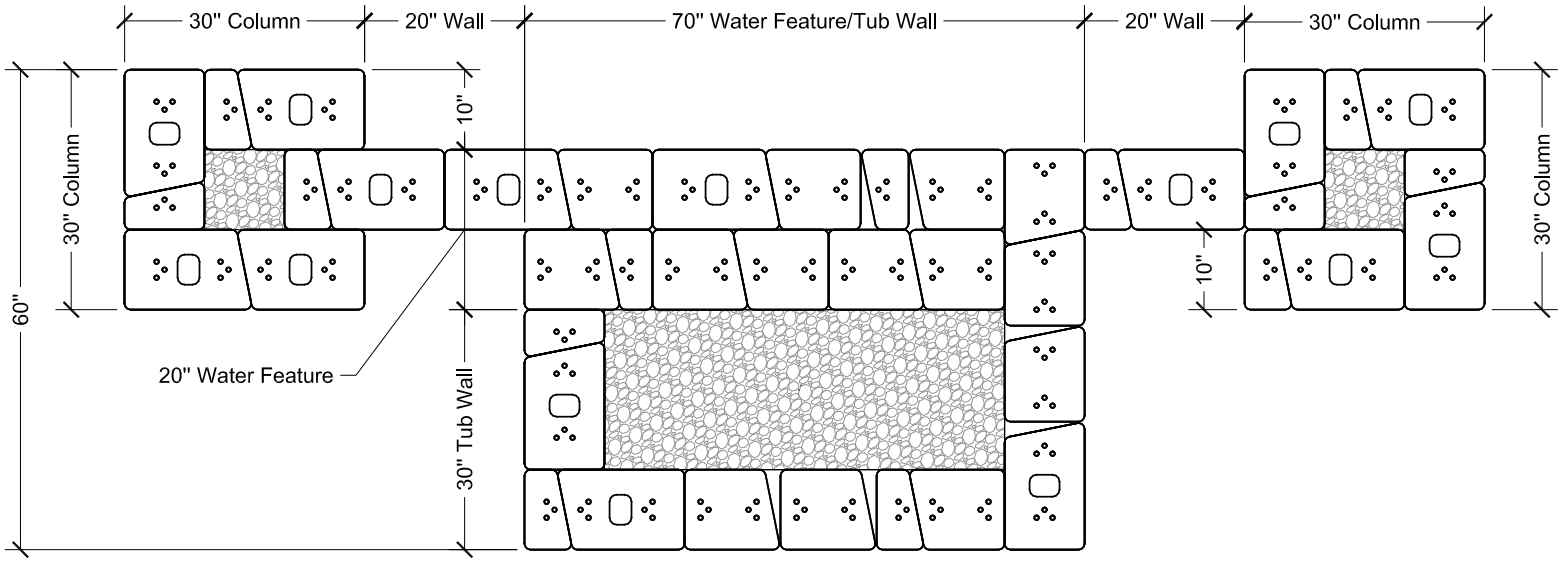
1st Course / Base Plan

Remember to:

- Call 811 to locate utility lines prior to digging.
- Follow manufacturer's instructions and local codes pertaining to electrical and water installation elements.

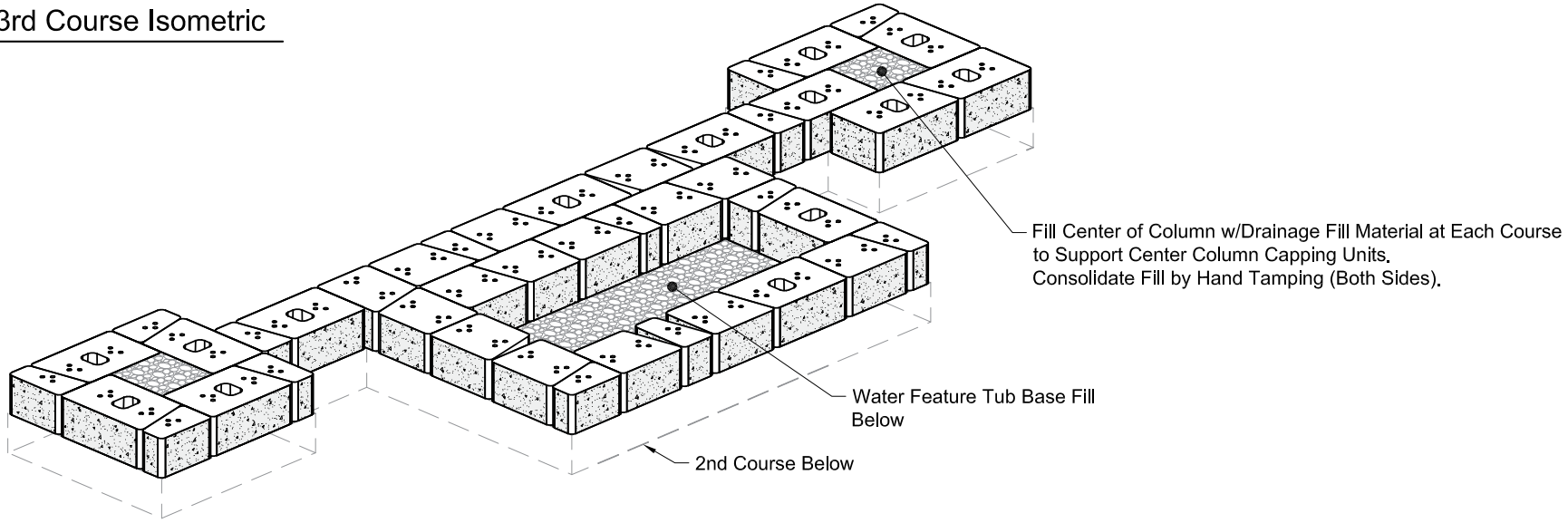
2nd Course Isometric

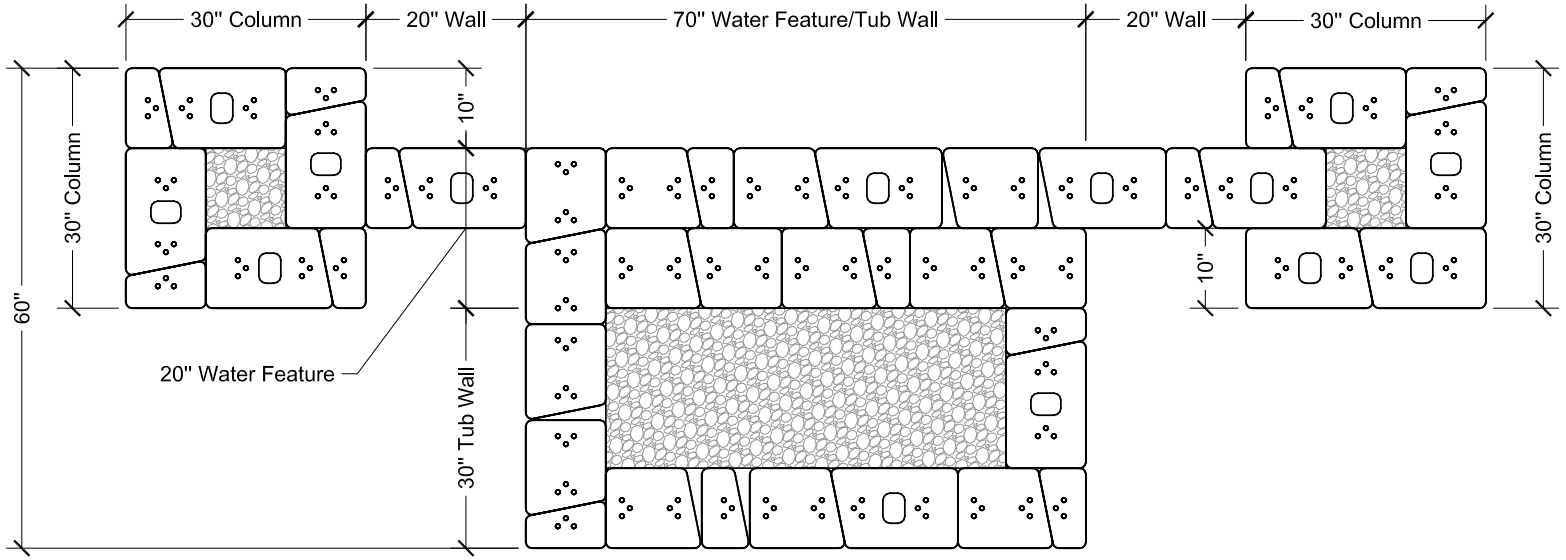




2nd Course Plan

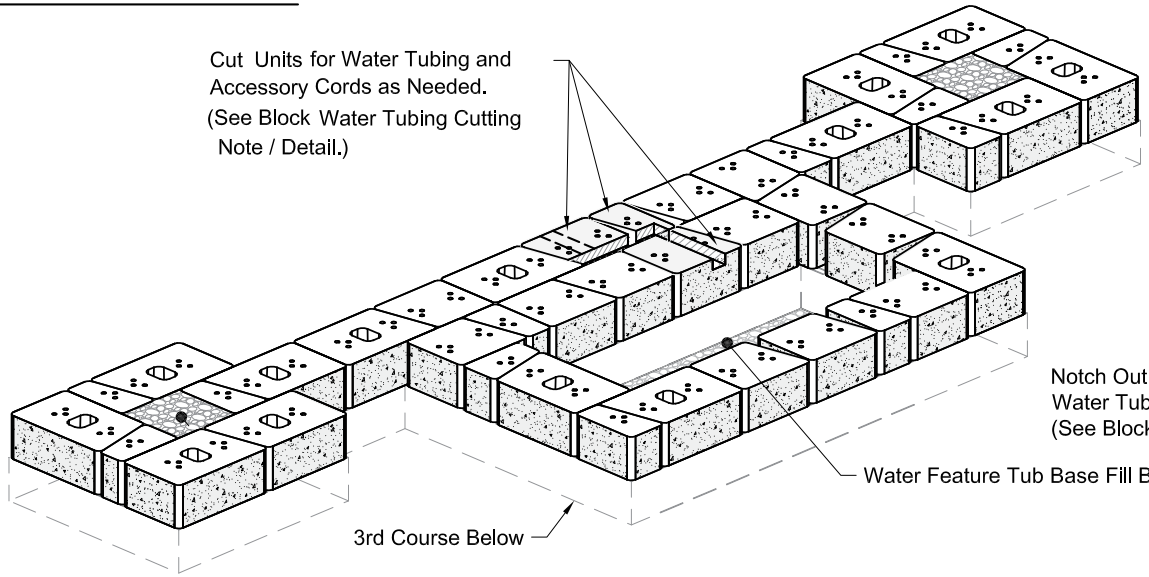
3rd Course Isometric





3rd Course Plan

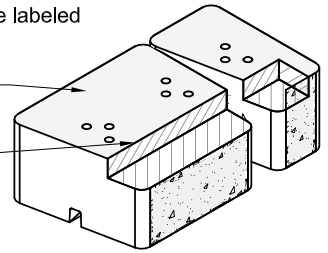
4th Course Isometric



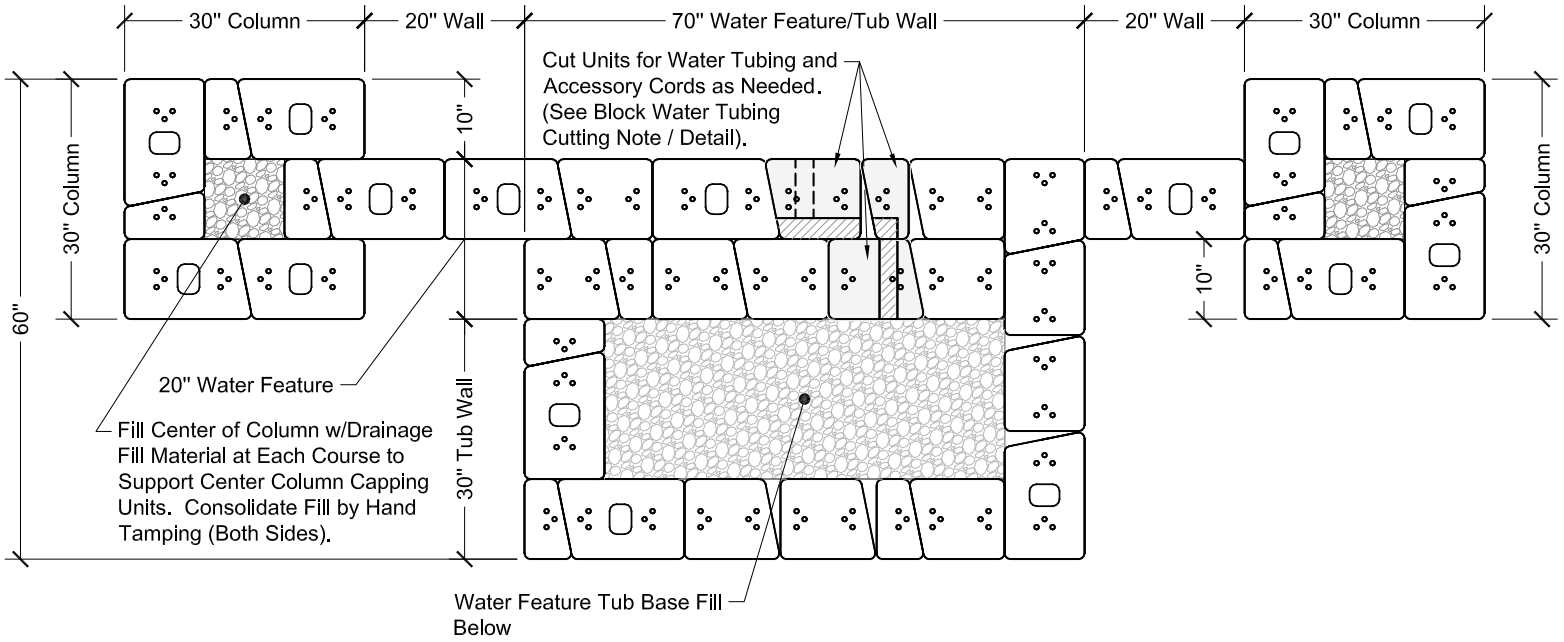
Block Water Tubing Cutting Note:

Prior to installing tub and water tubing, use them to locate where to notch block. Using a concrete saw or wheel grinder tool w/masonry disk, notch out the top of blocks to place water tubing into so water tubing is flush or just below the top surface of the cut blocks. Allow extra room in notches for tubing to move or bend as well as room for the accessory cords as needed.

Block unit areas to be cut are labeled with angular hatching.

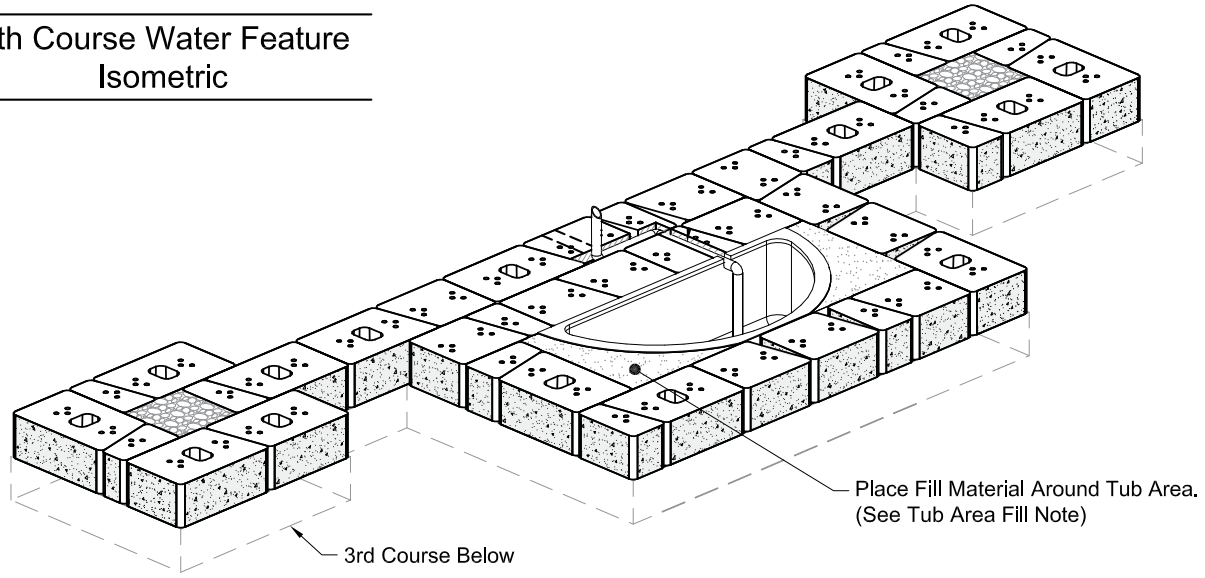


Block Water Tubing Cutting Detail



4th Course Plan

4th Course Water Feature Isometric



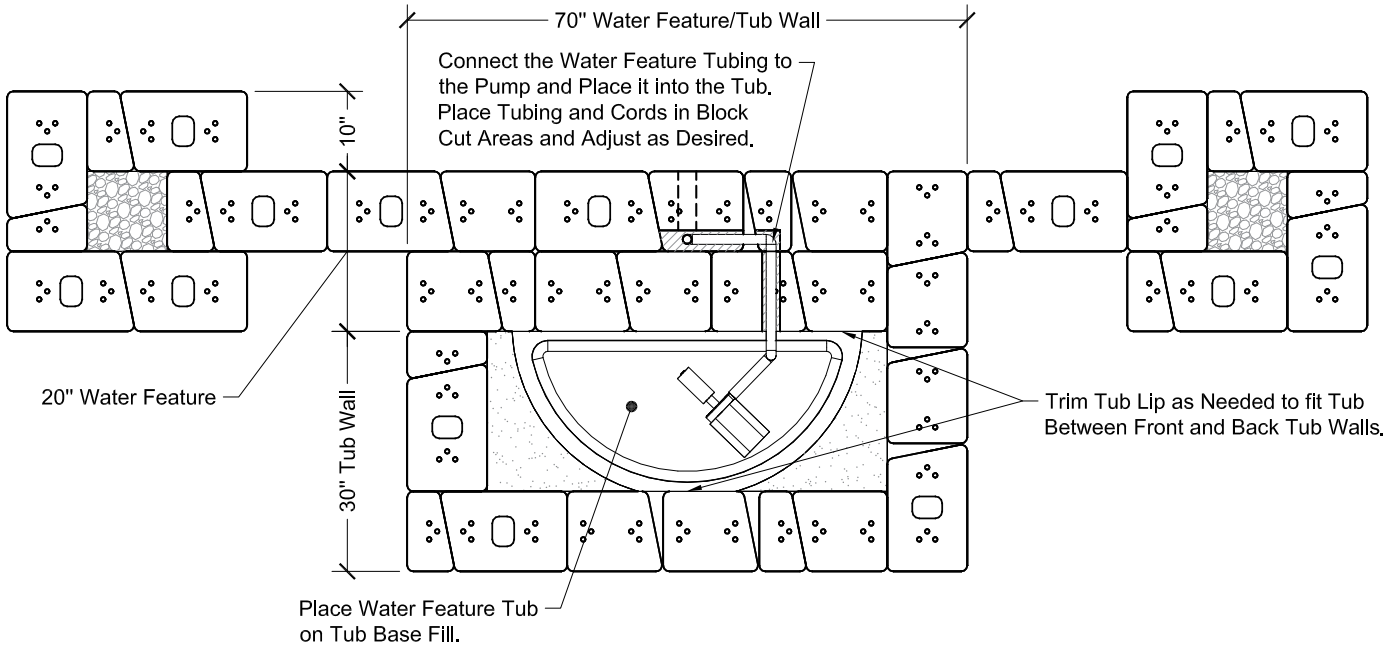
Tub Placement Note:

Prior to final placement of the water feature tub, verify that the tub lip is level with the top of the 4th course blocks, or at other desired height. Remove or add tub base fill as needed for final placement height. Center tub in water feature tub area prior to placing tub area fill around the tub.

Tub Area Fill Note:

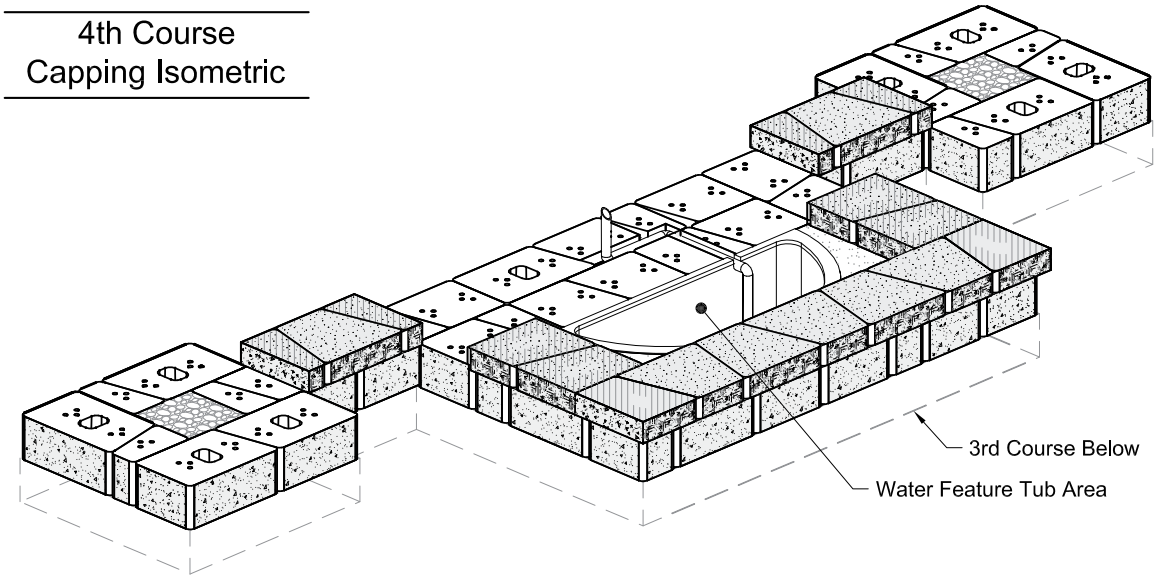
After installing the tub, fill around the tub with desired fill material.

If backfilling with dirt or other organic material place geotextile fabric or equal around the back side of the tub wall blocks inside of the tub area to prevent the dirt or organic material from washing through the block joints to the outside.



4th Course Water Feature Plan

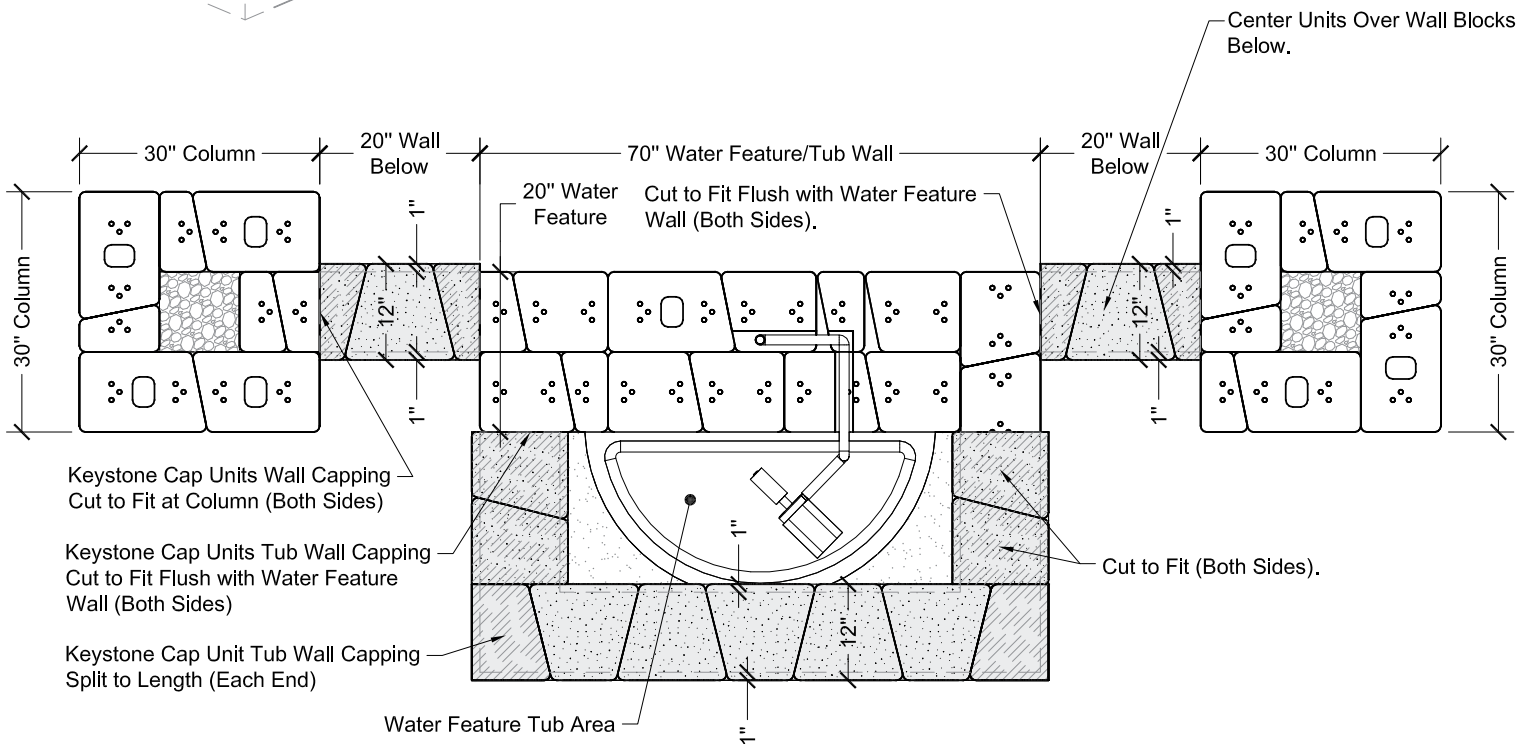
4th Course Capping Isometric



Cap Unit Note:

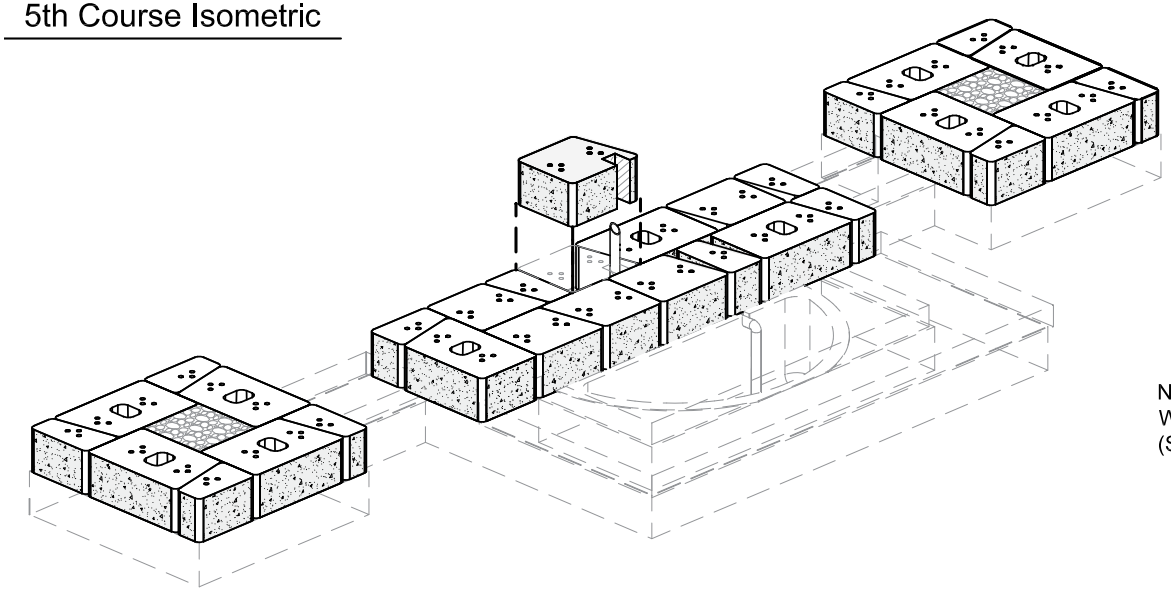
Cap units to be cut or hard split are labeled with angular hatching.

Hard split all exposed perimeter cap units labeled "split" cap units and soften the outside edges of the hard split "split" cap units using a masons hammer to match the cap units tumbled edges. Saw cut all other interior "cut" cap units.



4th Course Capping Plan

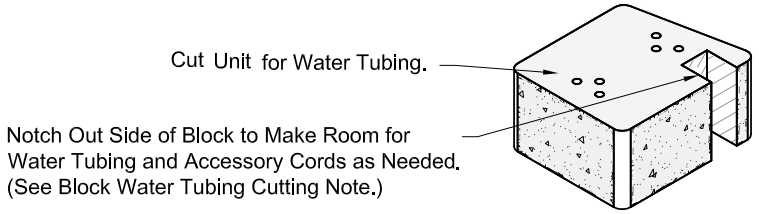
5th Course Isometric



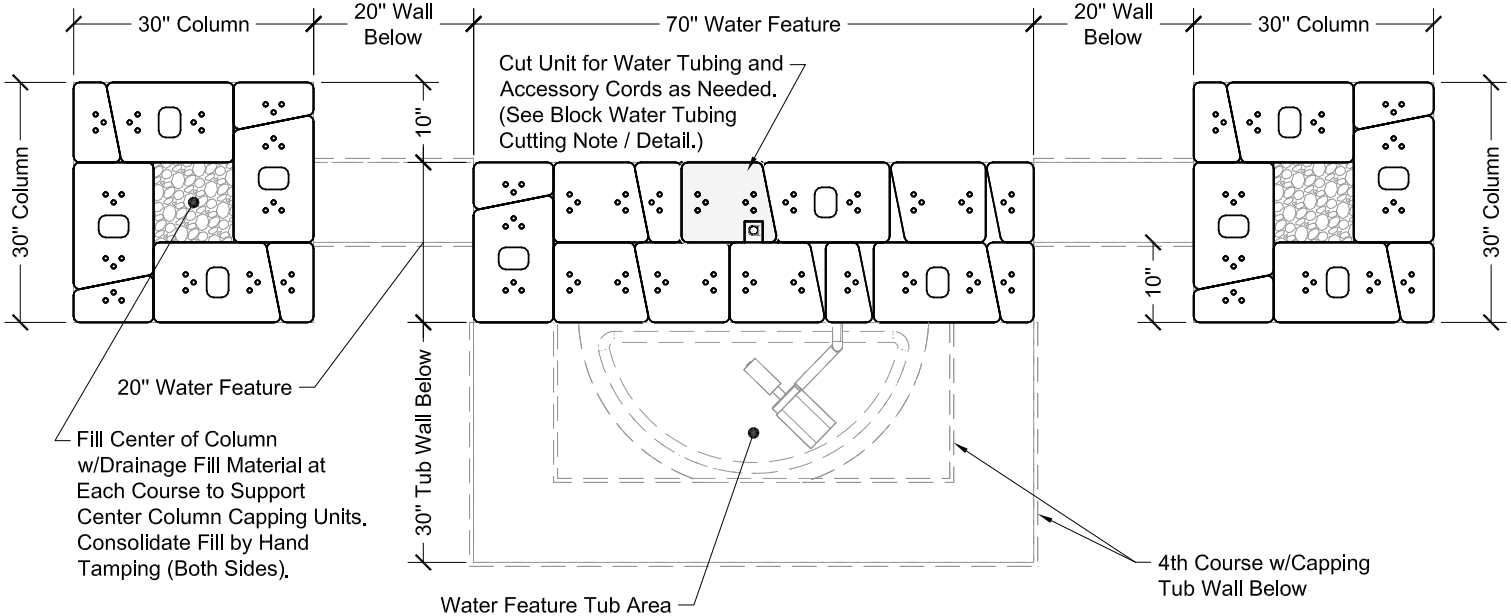
Block Water Tubing Cutting Note:

Prior to installing block cut unit, using a concrete saw or wheel grinder tool w/masonry disk, notch out the blocks to place water tubing through the cut blocks.
Place cut block unit in position with water tubing going through the cut block unit notch area. Allow extra room in notch for tubing to move or bend as well as room for accessory cords as needed.

Block unit areas to be cut are labeled with angular hatching.



Block Water Tubing Cutting Detail

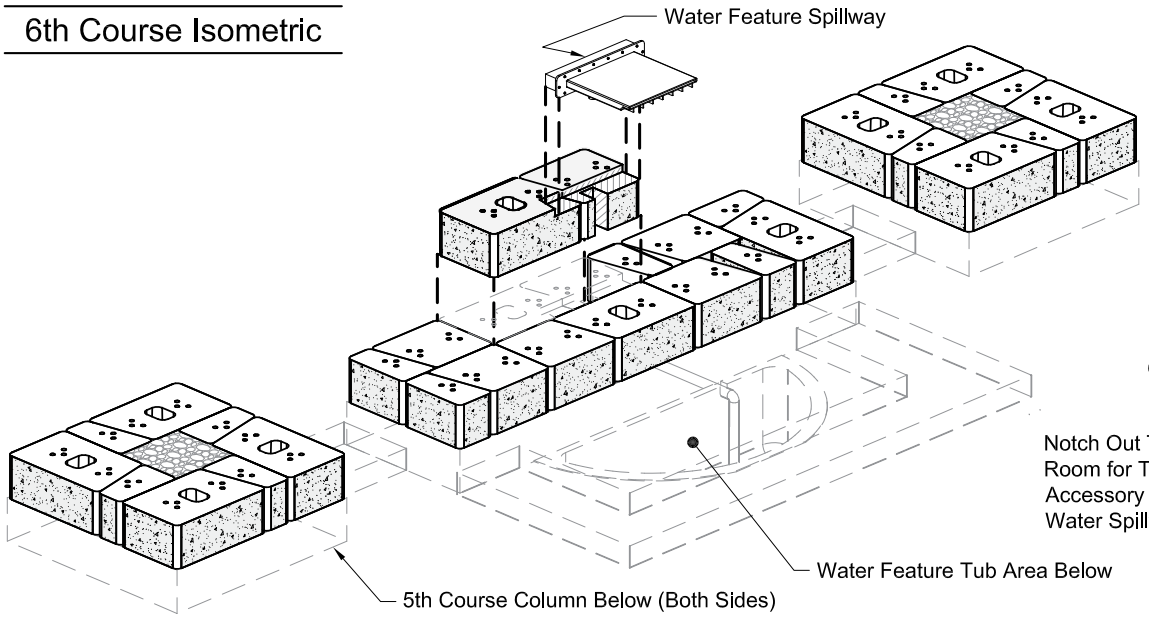


5th Course Plan

Water Feature Note:

Install Water Feature and accessories as per manufacturers installation instructions.

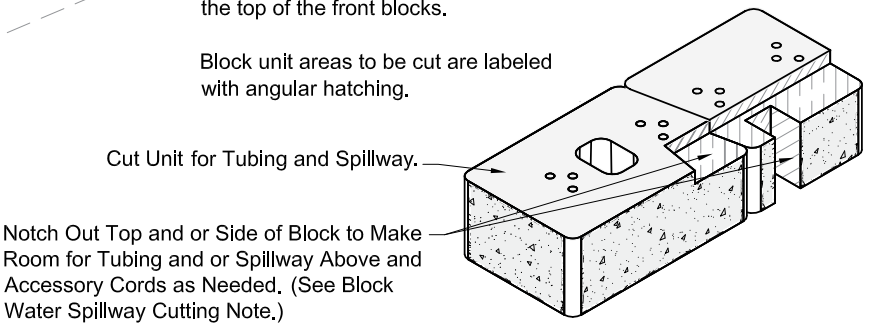
6th Course Isometric



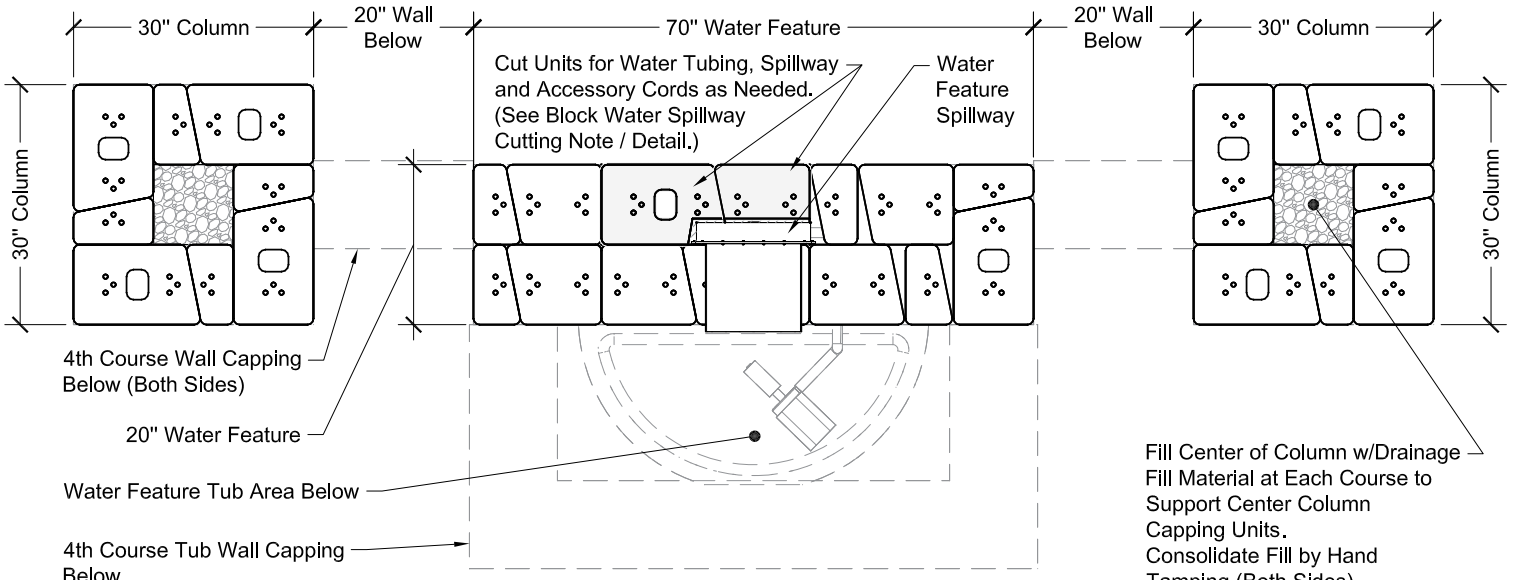
Block Water Spillway Cutting Note:

Prior to installing the block cut units and spillway, using a concrete saw or wheel grinder tool w/masonry disk, notch out the top and or side of blocks to place water tubing and spillway into. Allow extra room in notches for tubing to move or bend as well as room for accessory cords as needed. Cut into the top of the rear blocks deep enough to set the front of the spillway in contact with the top of the front blocks.

Block unit areas to be cut are labeled with angular hatching.



Block Water Spillway Cutting Detail

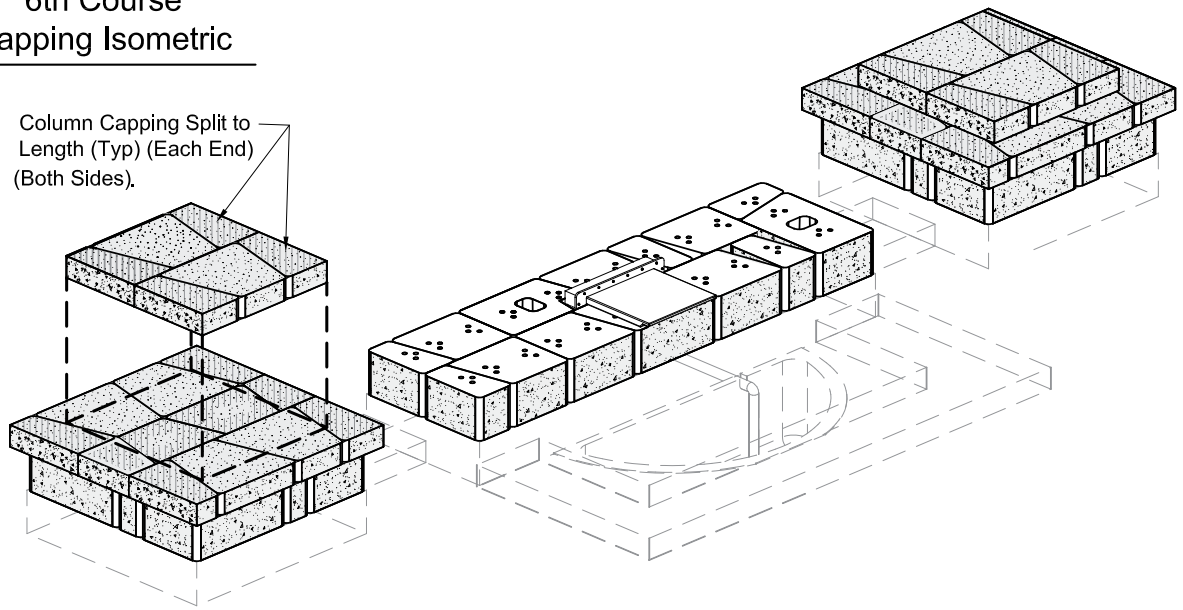


6th Course Plan

Water Feature Note:

Install Water Feature and accessories as per manufacturers installation instructions.

6th Course Capping Isometric



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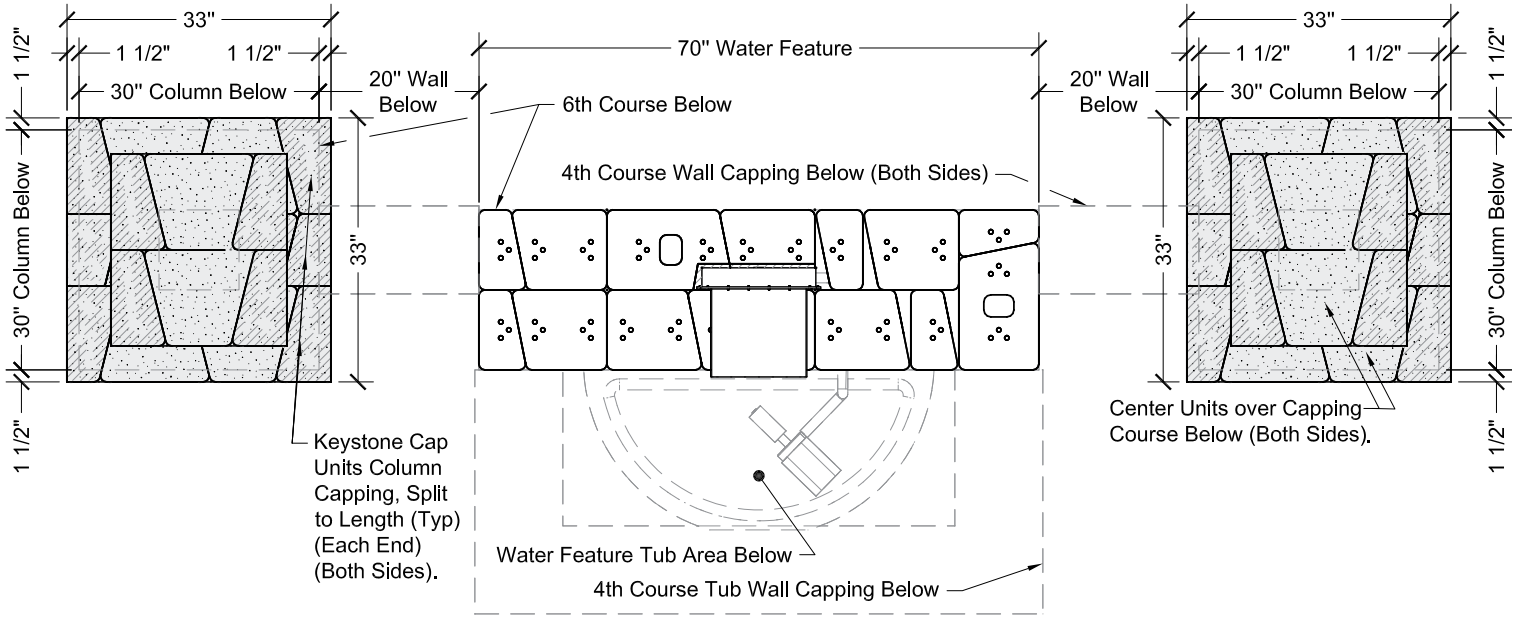
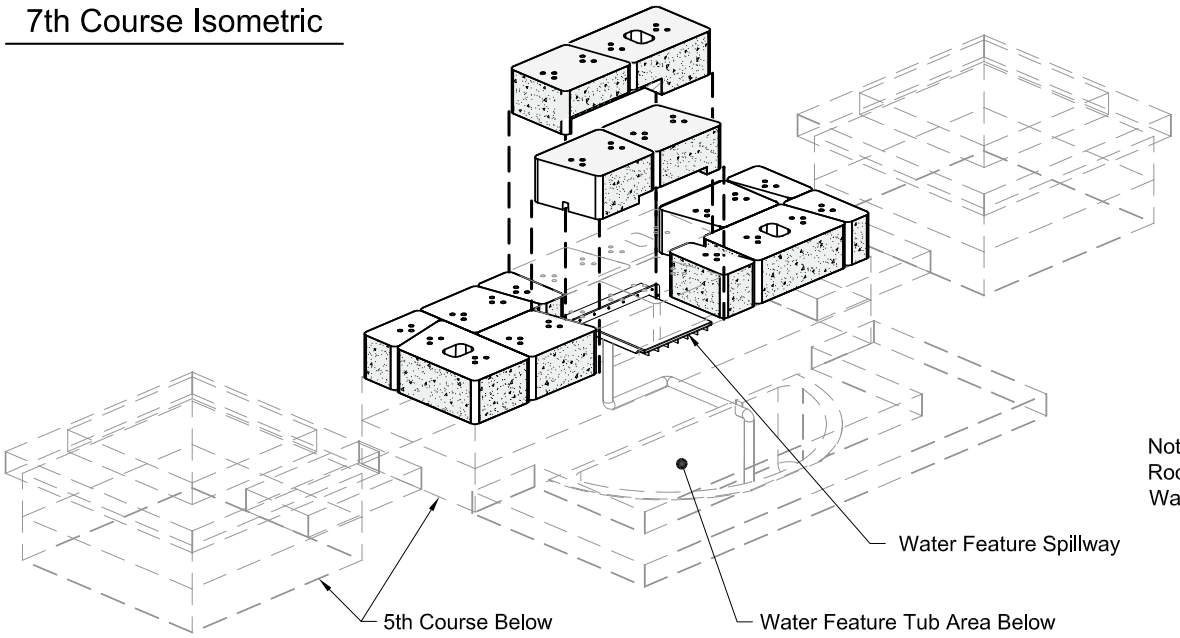


6th Course Capping Plan

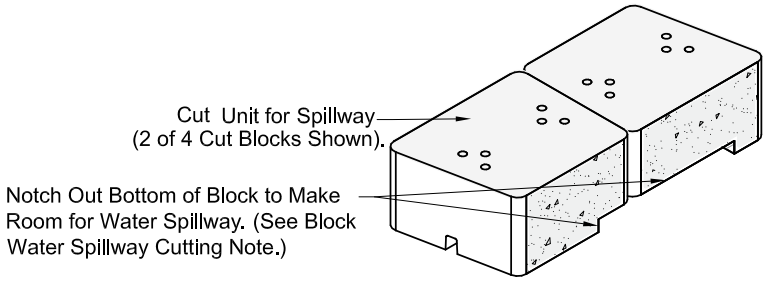
7th Course Isometric



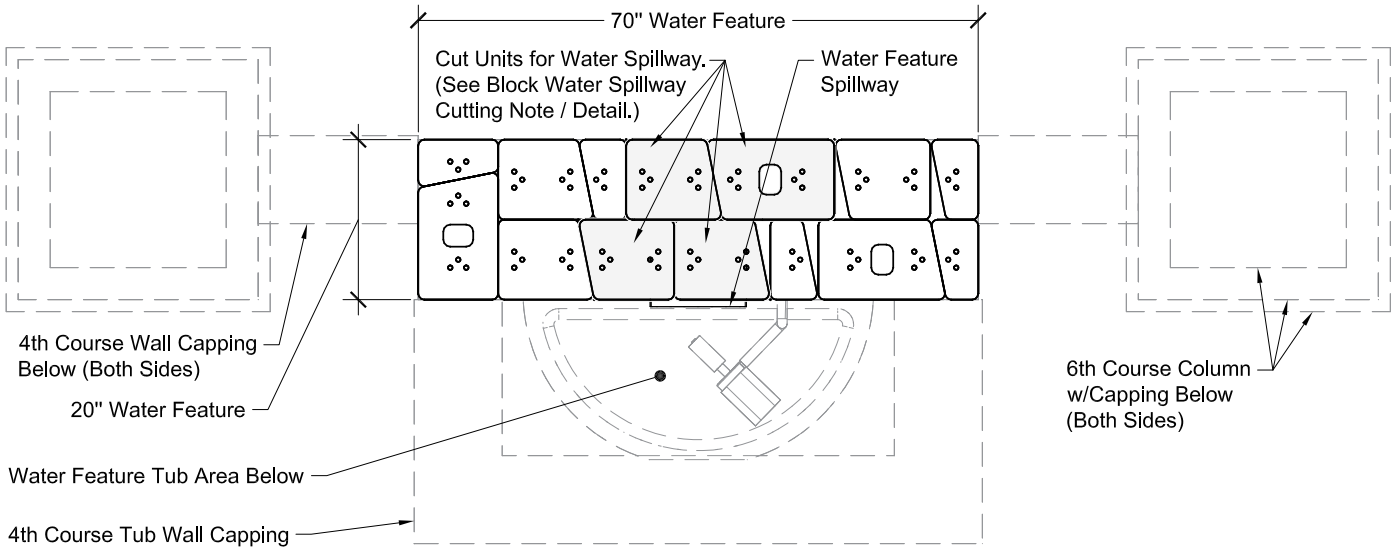
Block Water Spillway Cutting Note:

After installing the water tubing and spillway, using a concrete saw or wheel grinder tool w/masonry disk, notch out the bottom of front and back blocks enough to place over spillway and set flush to 6th course below.
For best appearance make front outside notches close to spillway.

Block unit areas to be cut are labeled with angular hatching.



Block Water Spillway Cutting Detail

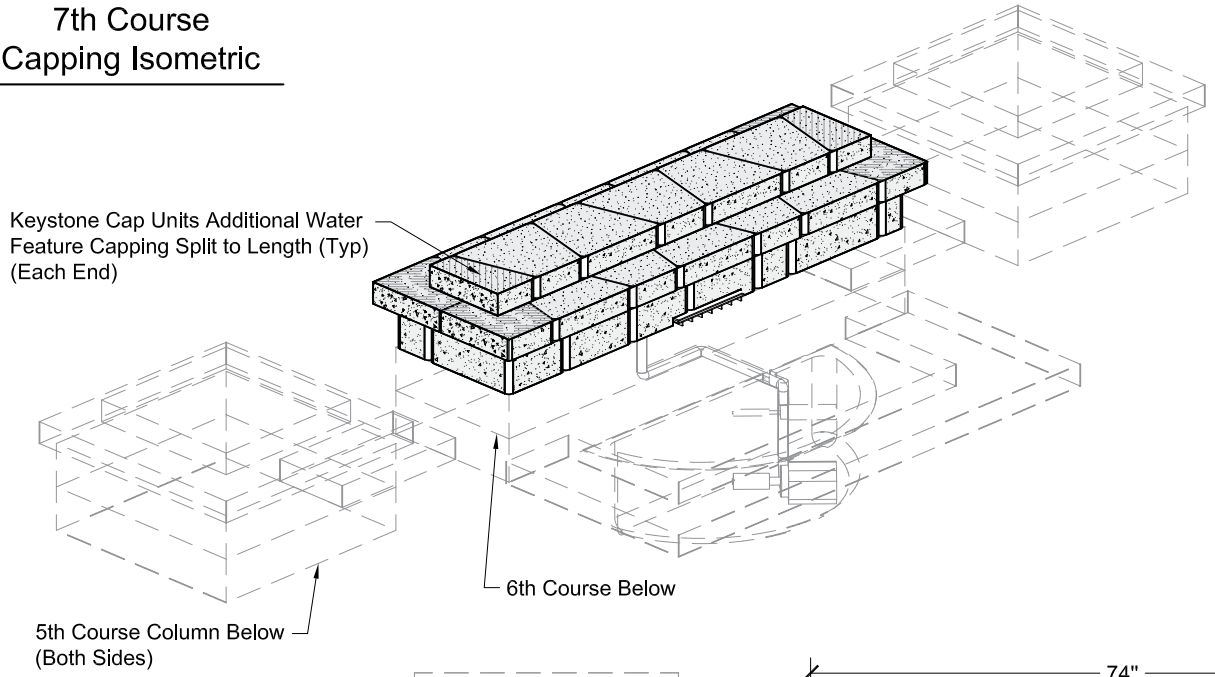


7th Course Plan

Water Feature Note:

Install Water Feature and accessories as per manufacturers installation instructions.

7th Course Capping Isometric



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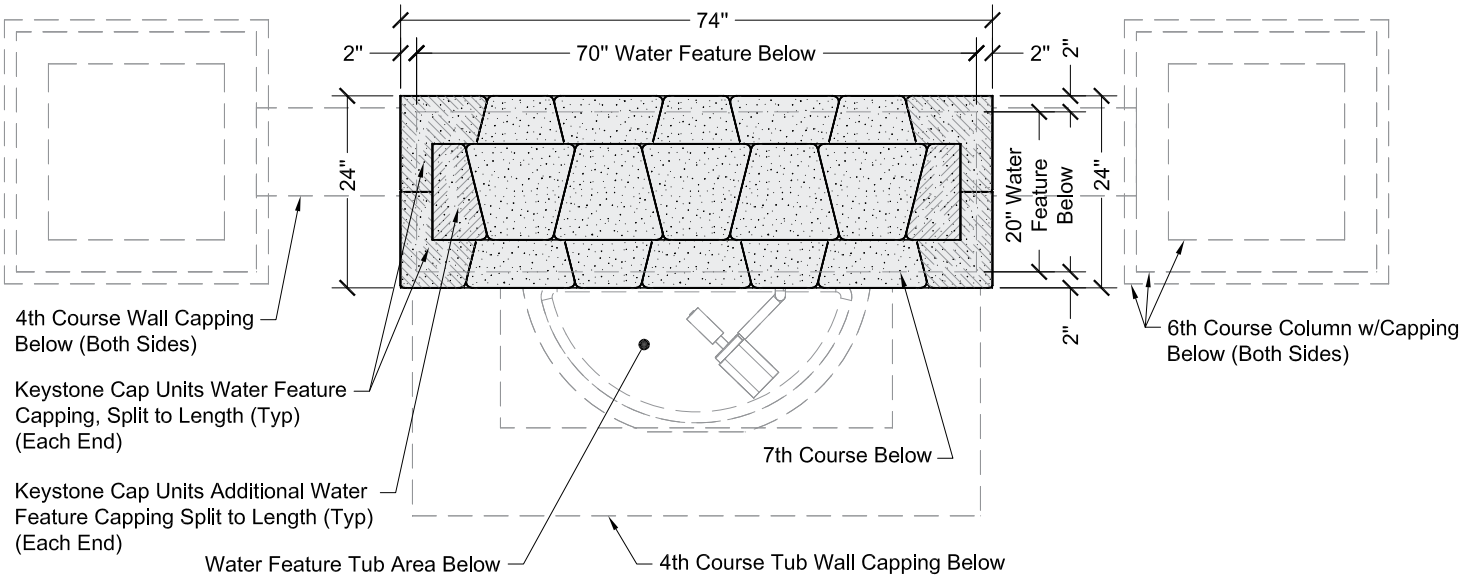

7th Course Capping Plan