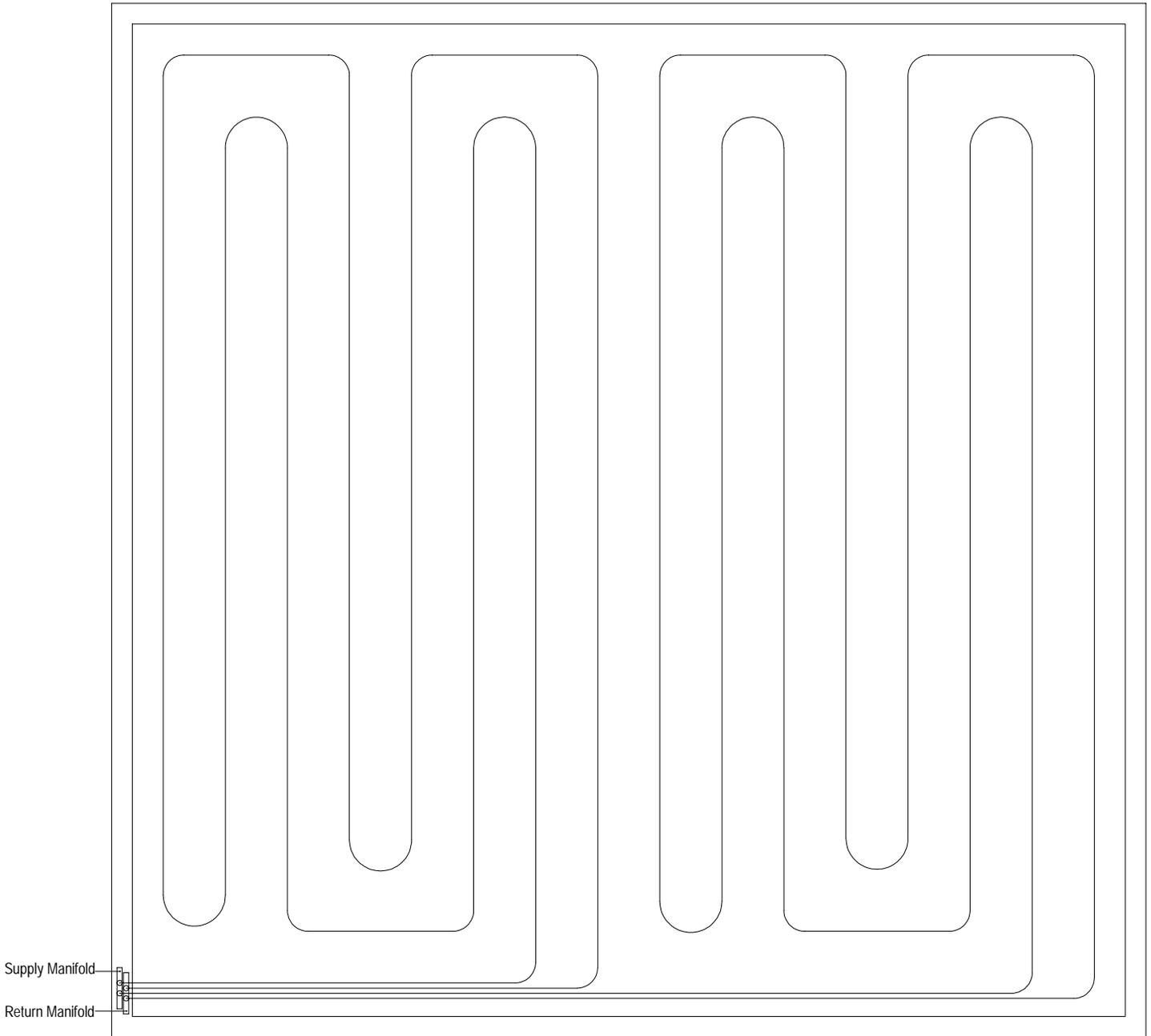
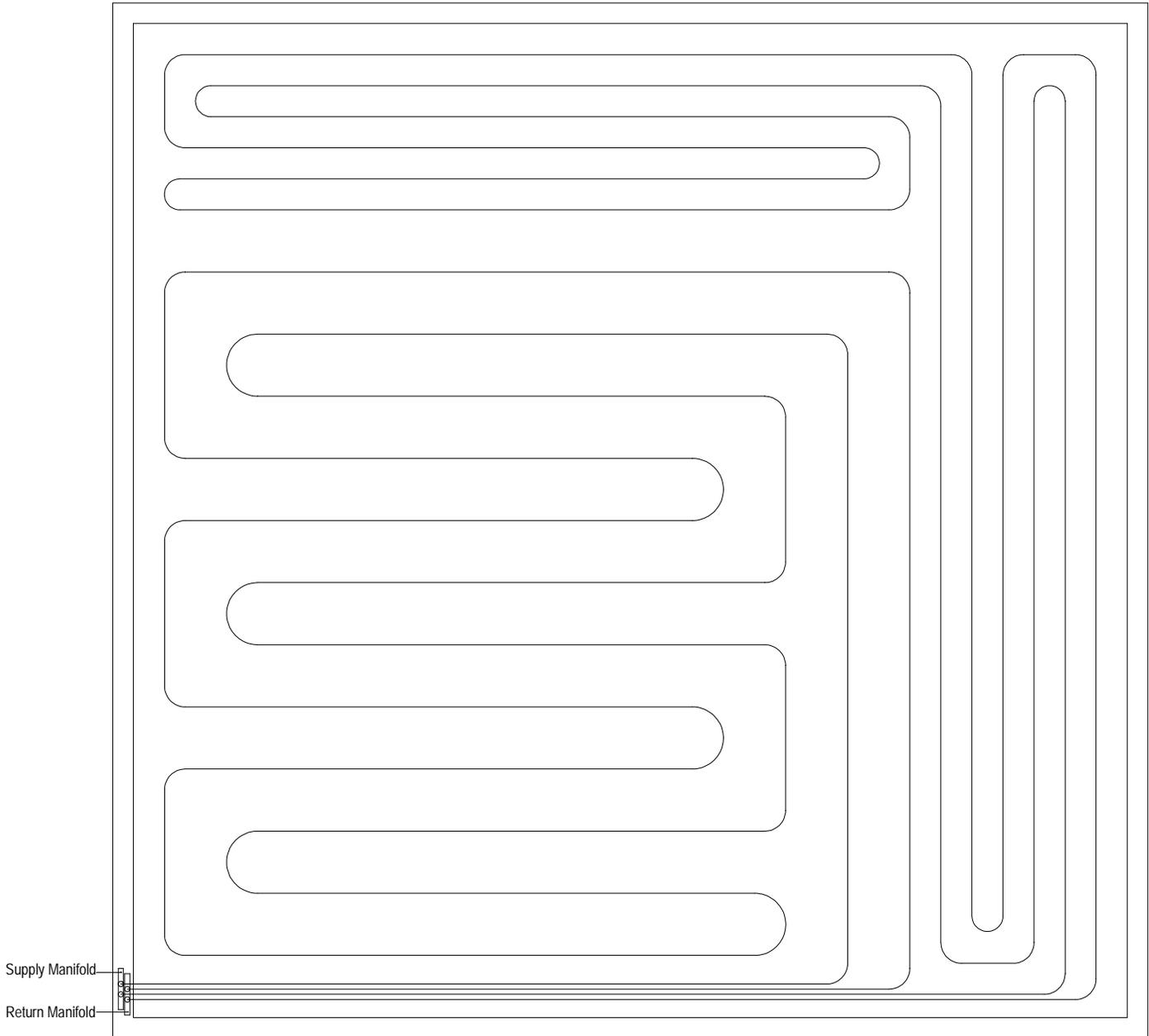


# Slab



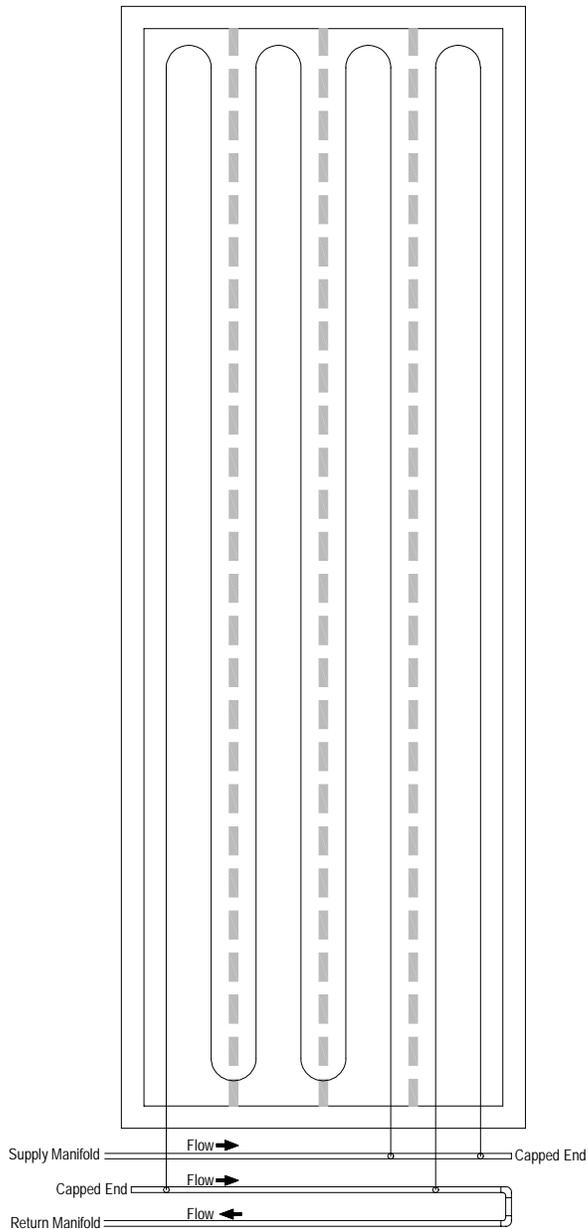
**Single Serpentine Layout:** This is the easiest of all the layout patterns to visualize. Simply start at one end of the zone, walking back and forth until the zone is filled, or until you need to return to the manifold and begin the next circuit.

# Slab



**Single Serpentine Layout with Banding:** Banding is used along exposed walls or areas of excessive heat loss. Banding allows for more tubing to be installed in a given area, which increases the floors heating output. This higher output helps off-set the heat loss. Banded spacing is usually 4 ft. in from the exposed wall and is usually half the spacing as the main room.

## Frame Floor: Long Manifold



Long manifolds are installed perpendicular to the floor joists. To ensure balanced flow through each circuit, a reverse return method is recommended. A reverse return manifold requires a third copper line to be ran. This extra line allows each circuit to "see" the same total manifold length, thus creating a balanced system.

# SLAB OVER SLAB WITH INSULATION

**Watts Radiant**

Radiant Floors & Snowmelting

Ph: 417/864.6108

Fax: 417/864.8161

**GENERAL NOTES:**

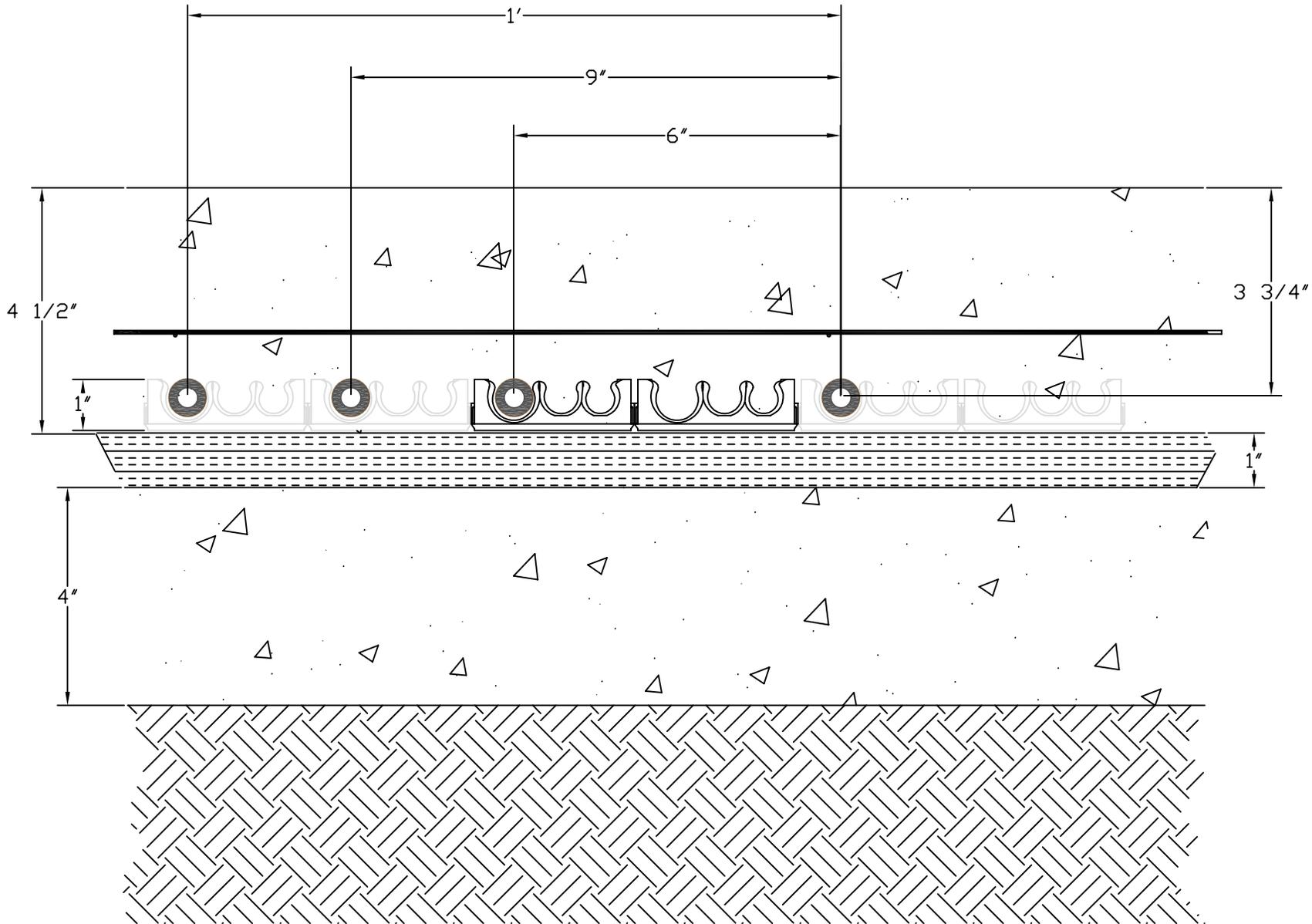
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**SPECIFIER INFORMATION:**

**ONIX CROSS SECTIONAL DETAILS:**

General Legend

-  Concrete (Thin Slab)/ Mud
-  Joist/Sleepers
-  Plywood
-  Sand Fill
-  Board/Batt Insulation
-  Gravel Bed/Earth Fill



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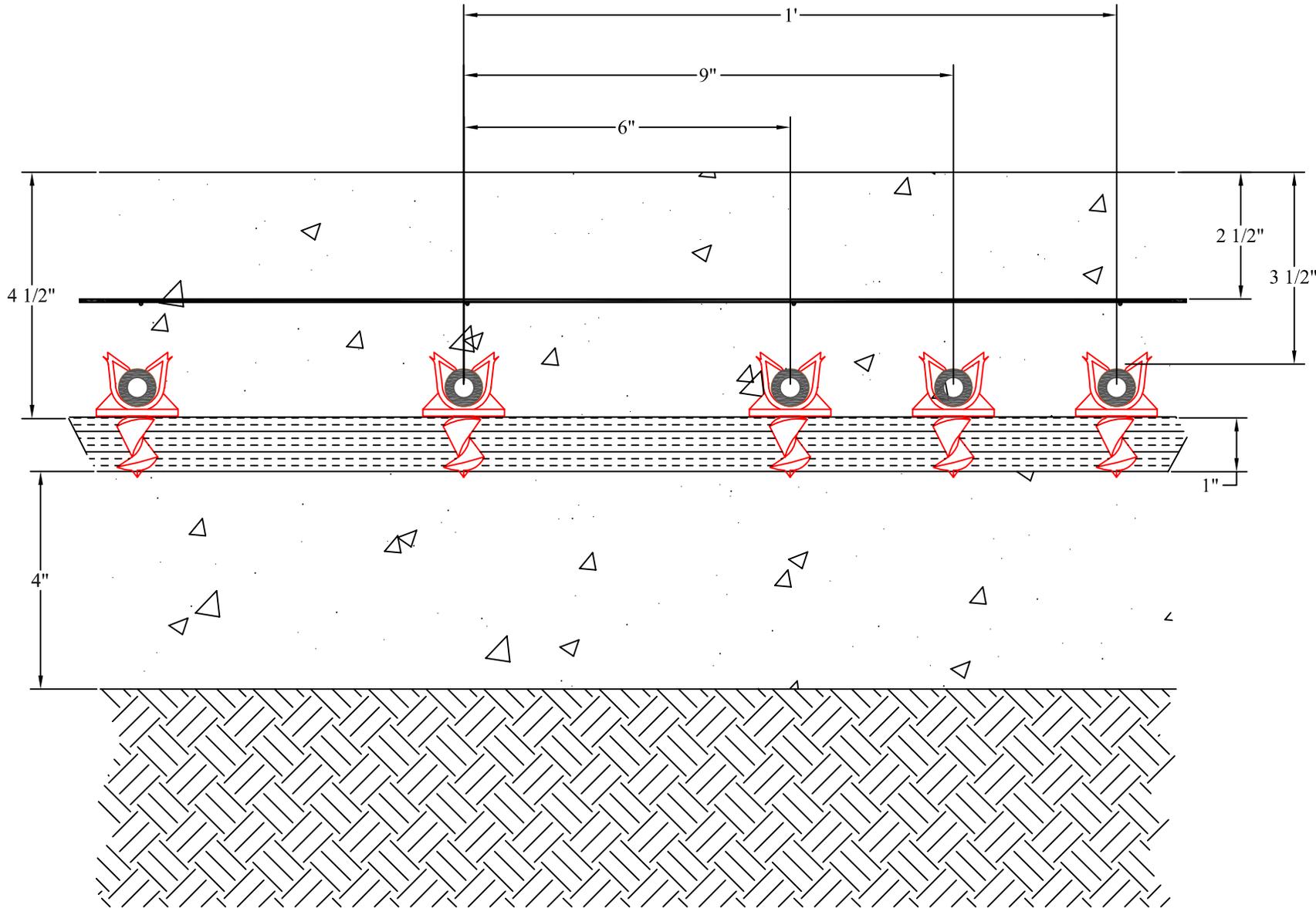
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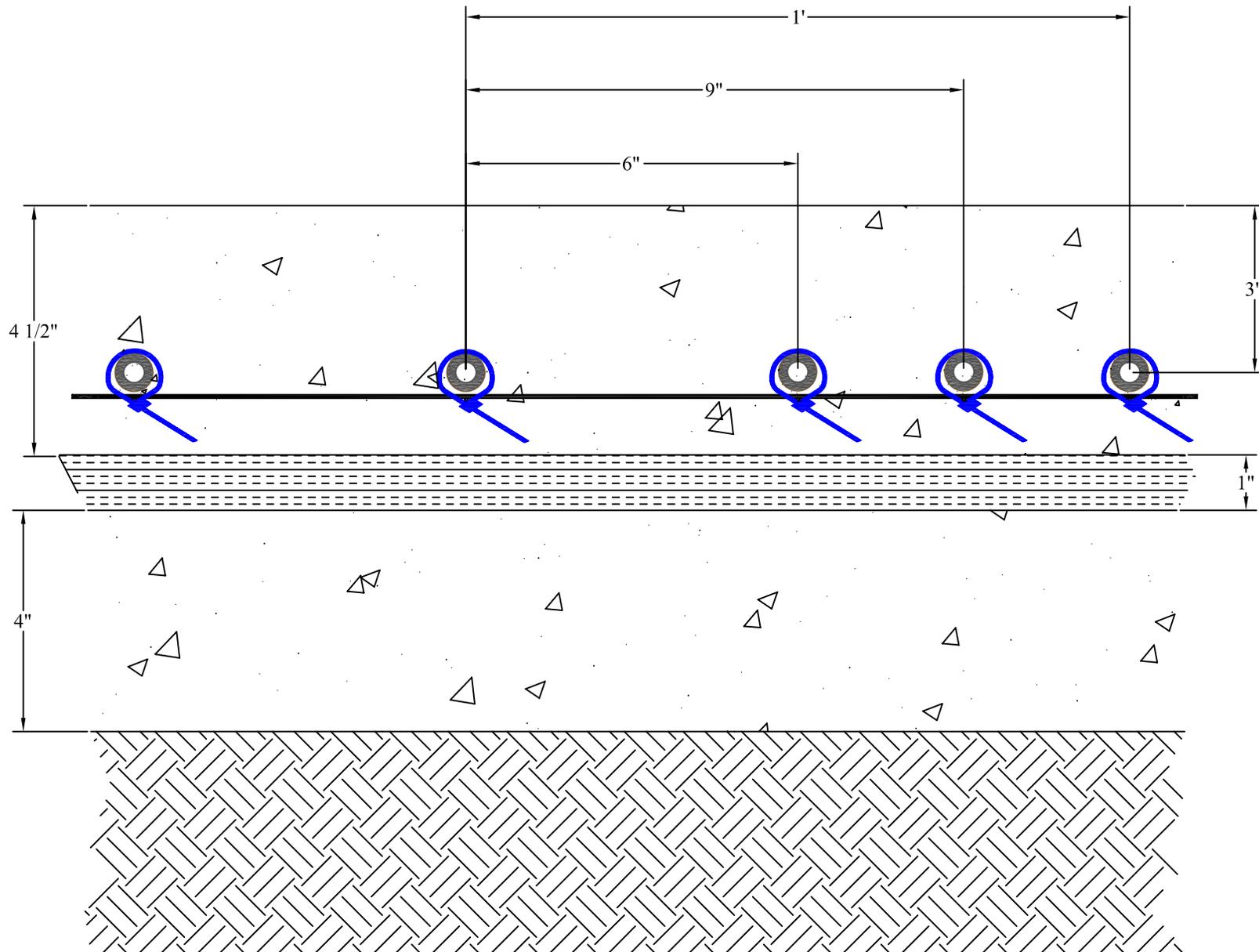
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# SLAB OVER STEEL DECK

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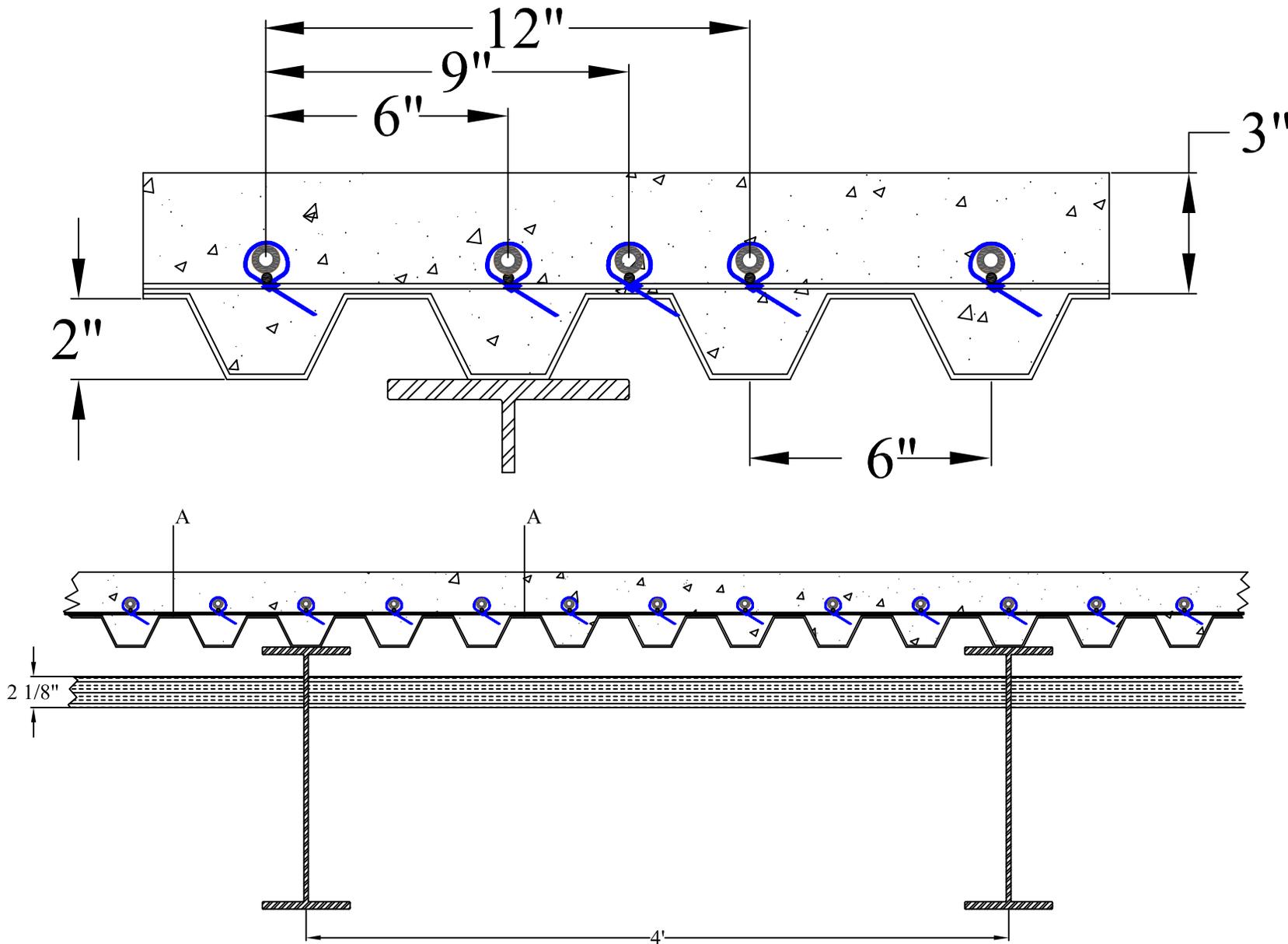
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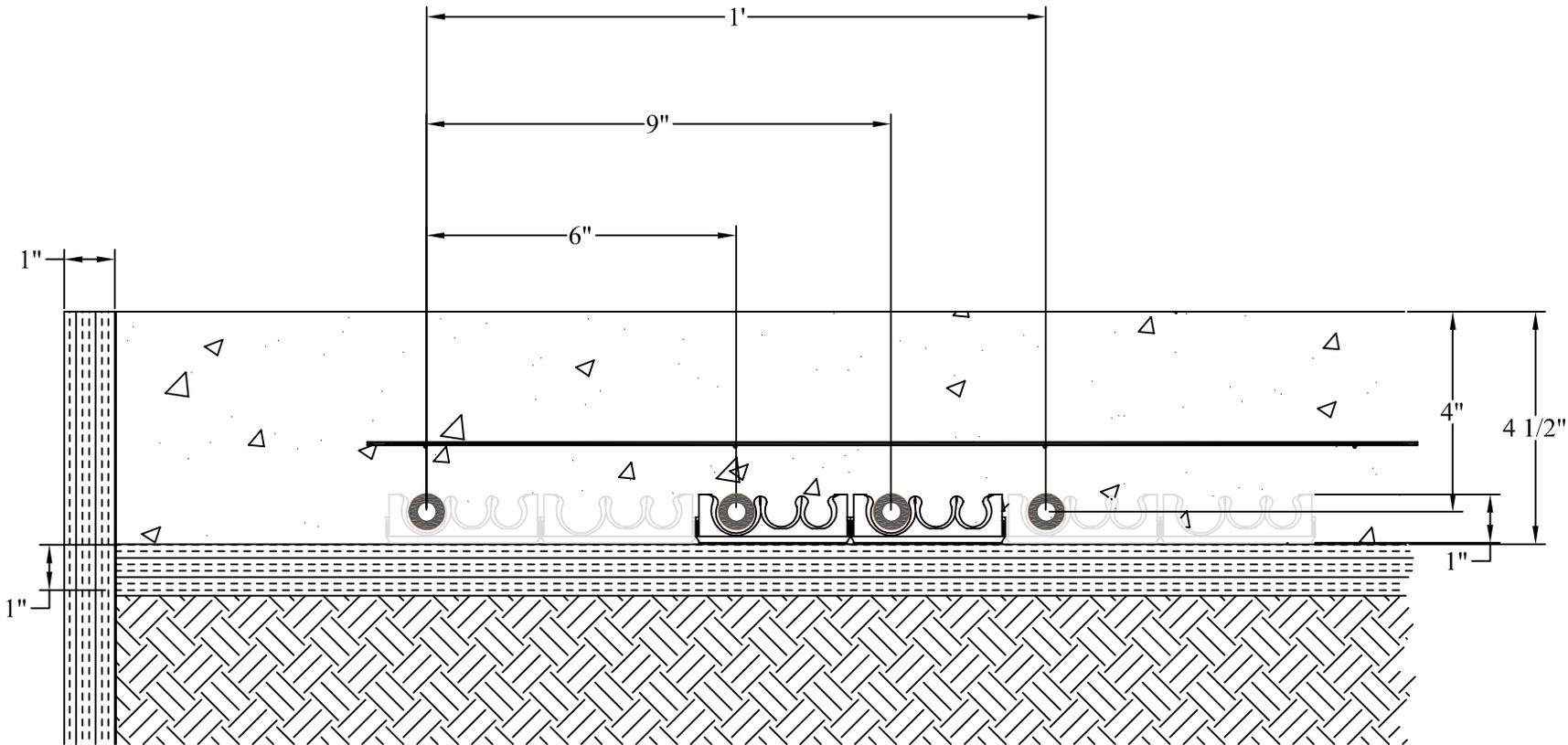
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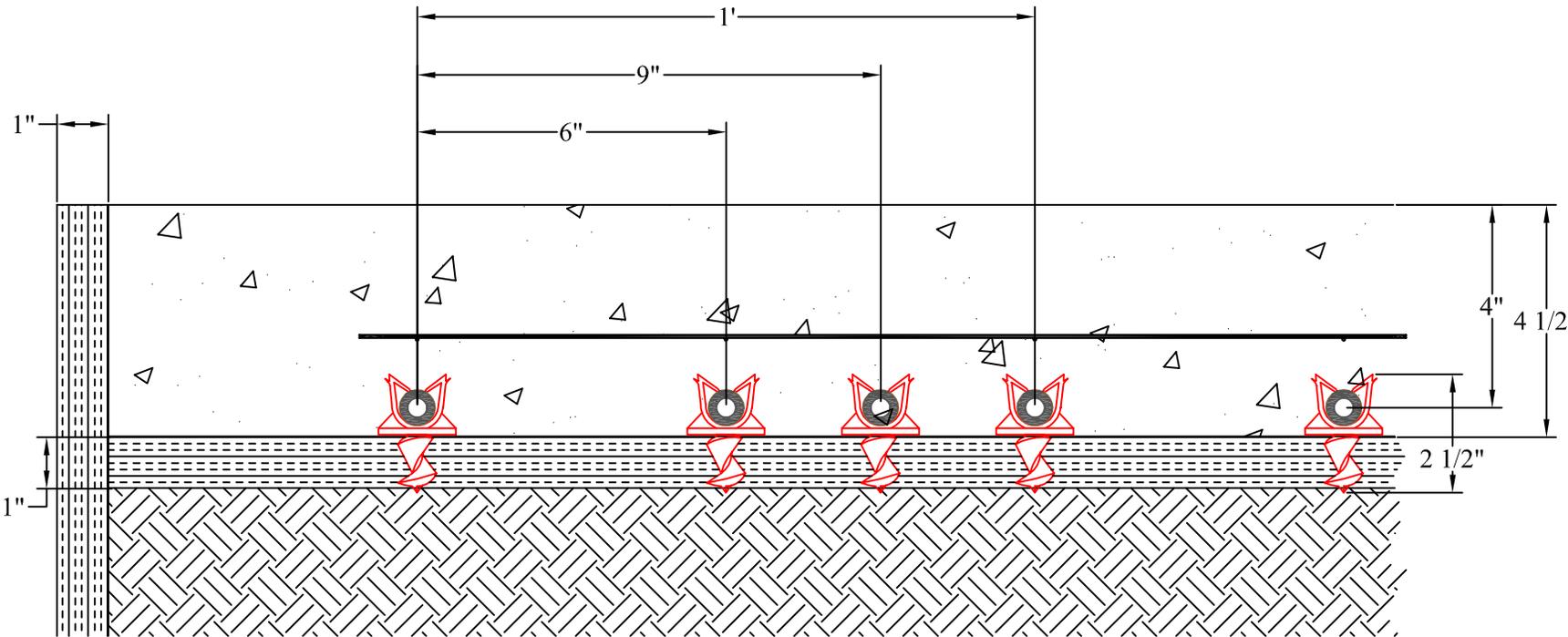
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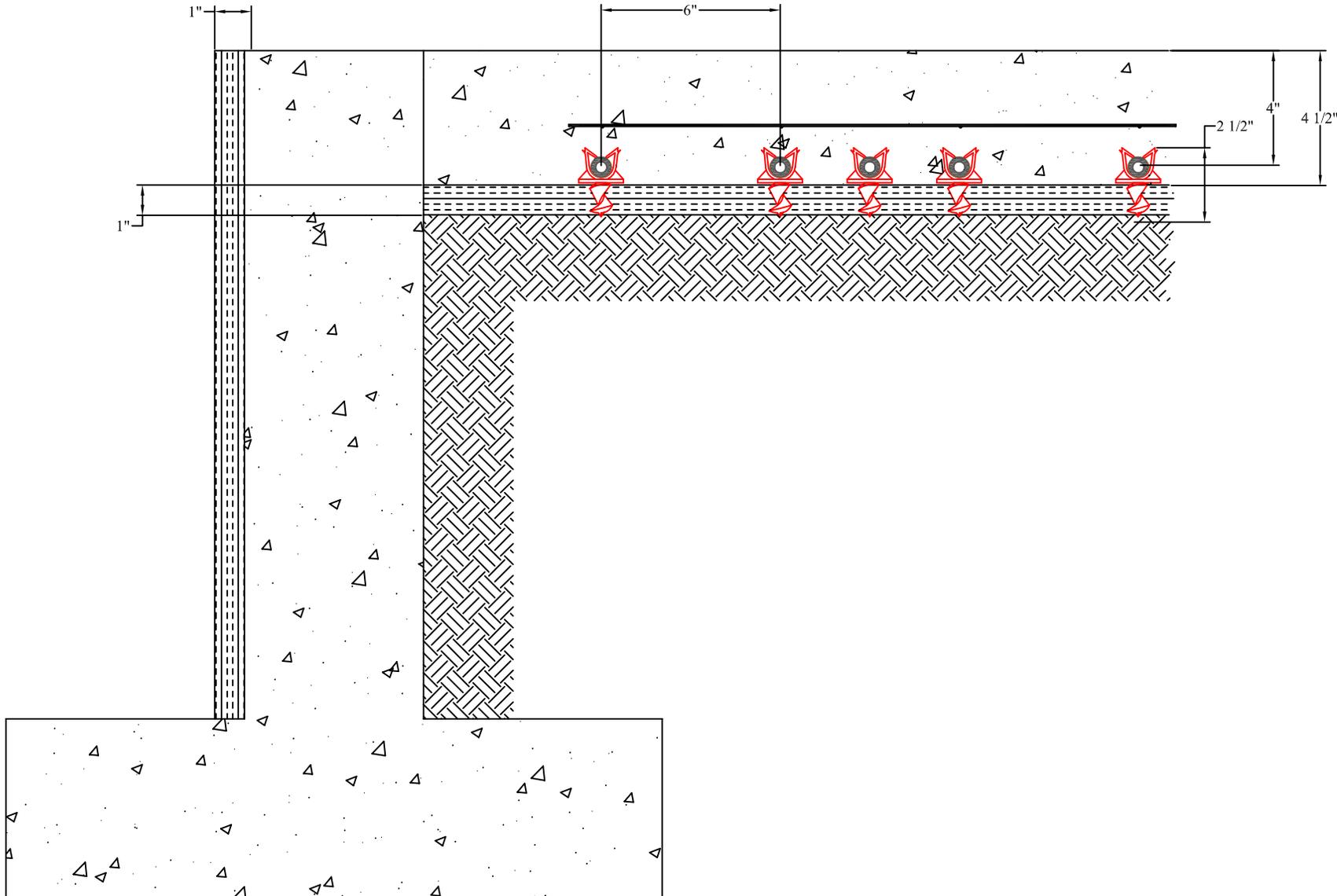
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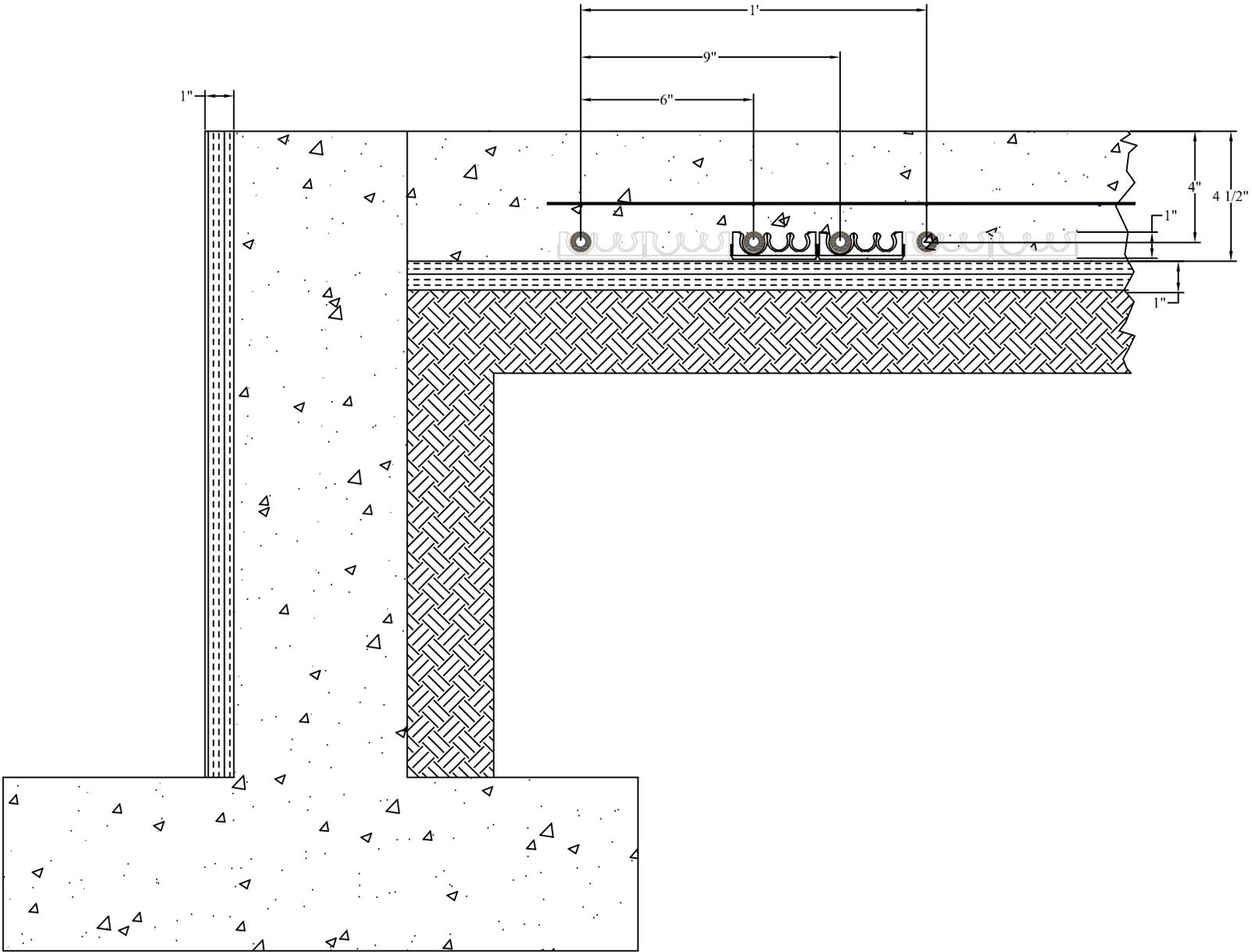
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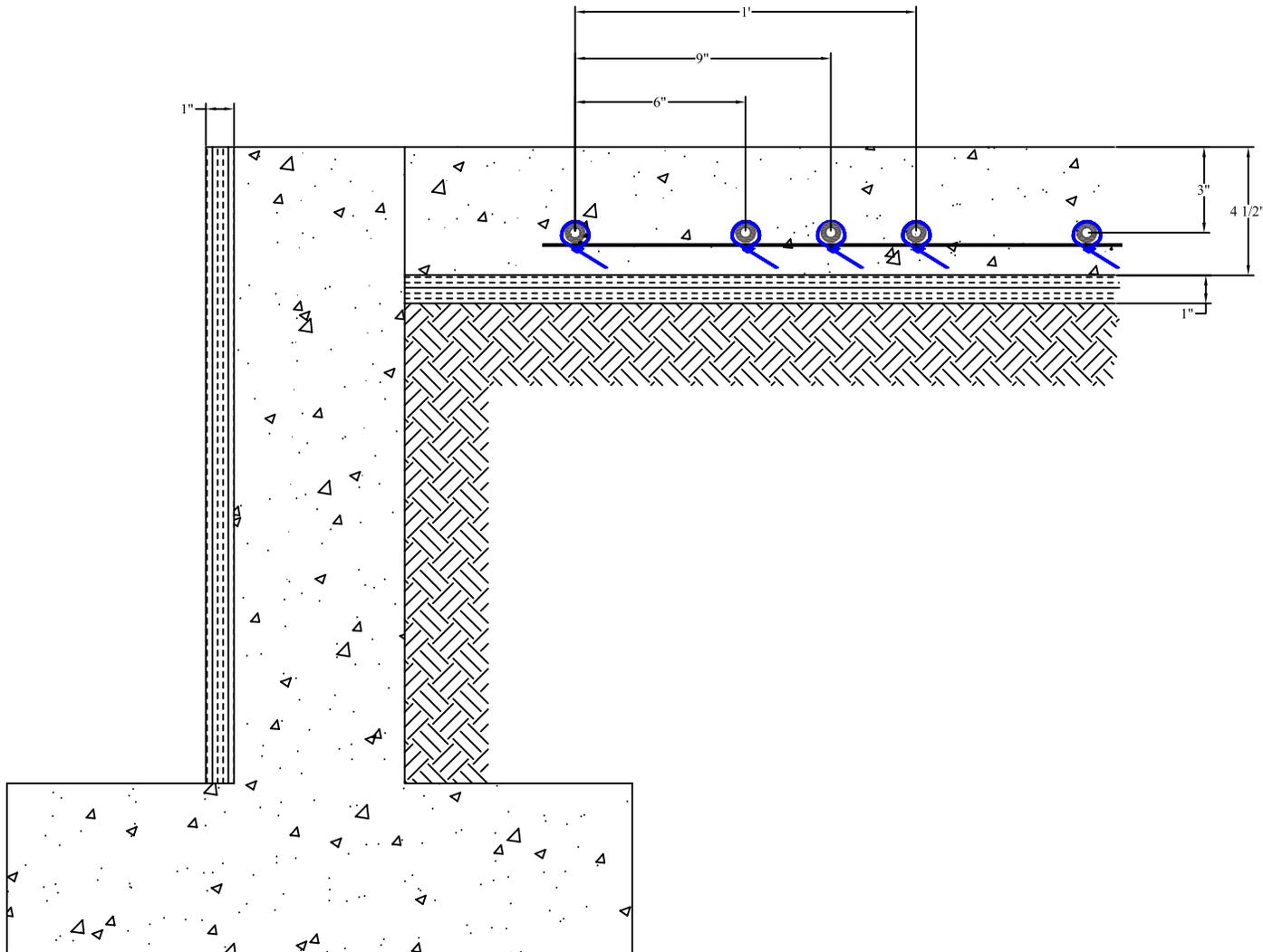
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# STANDARD SLAB ON GRADE

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Radiant Floors & Snowmelting

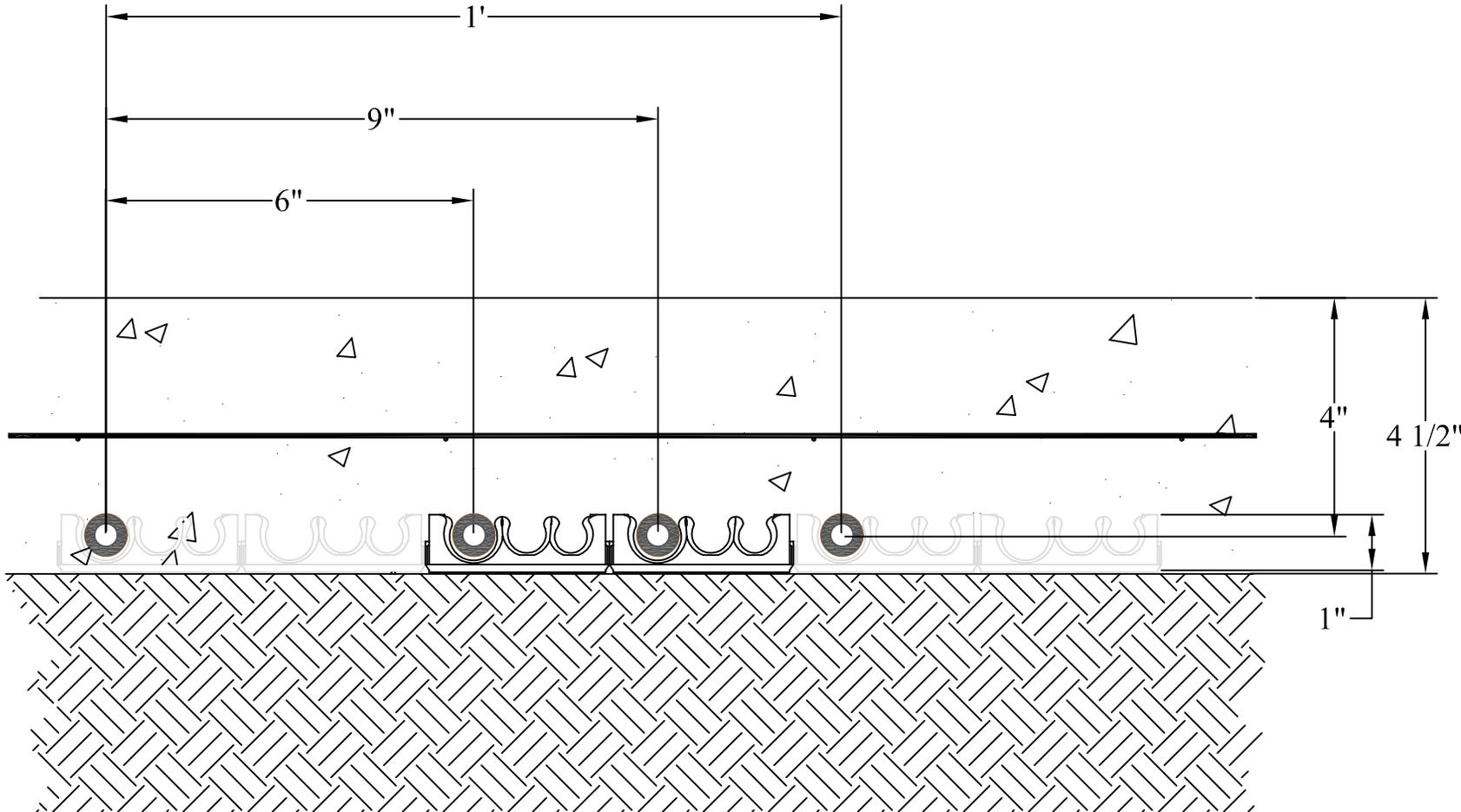
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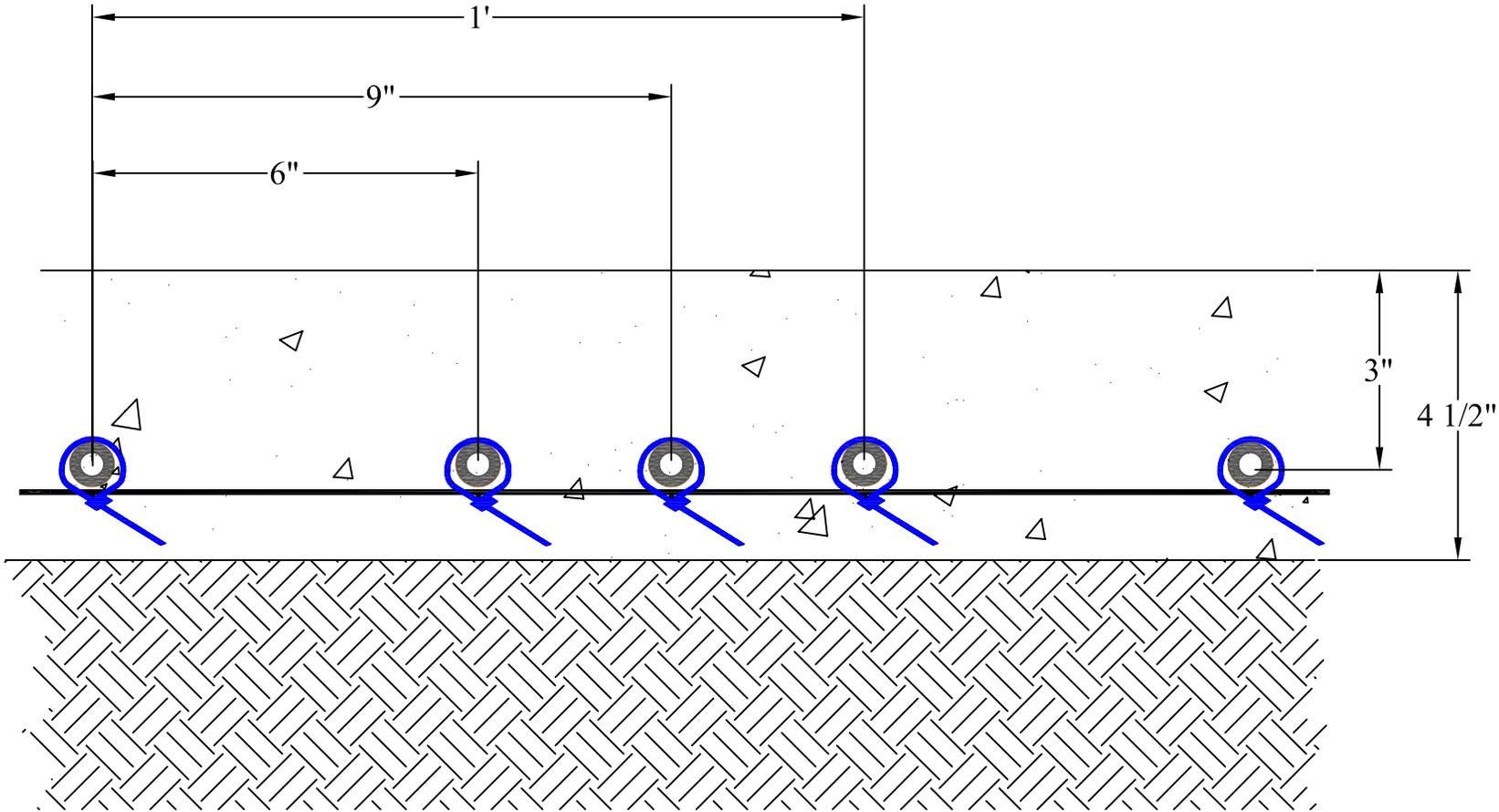
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