

This sediment trap is intended for mid-level stormwater leading into a rain garden, where the quantity of street debris exceeds 50 gallons per maintenance cycle.

Set four inches below a curb cut, the sediment trap receives runoff from the street, which is then slowed and filtered by several materials. A wire gabion cage forms the outermost layer, while cinderblocks form the main structure below ground level.

Gaps between blocks at the bottom of the sediment trap allow water to percolate into the ground. Mycorrhizal inoculate helps decompose material, clean water, and extend nutrients to tree roots.

Sitting on top of this structure is a galvanized steel grate with a load rating of 600 pounds. For additional load-bearing capacity, c-channels are set into cinder blocks below the gabion top. The top of the trap is then covered with river rocks, which also help catch sediment, leaf litter, and other debris before the gets to trees, other vegetation, and the aquifer.



*Above: A sediment trap, hidden under these river rocks and integrated into the design of this rain garden, helps filter stormwater and runoff to provide these trees with moisture that is essential to their survival and growth.*

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For more information about southwestern urban forestry design, visit our website:

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Or contact us:

**505-819-3769**

**[plants@sowsfe.com](mailto:plants@sowsfe.com)**

## SEDIMENT TRAP

### BEST MANAGEMENT PRACTICE

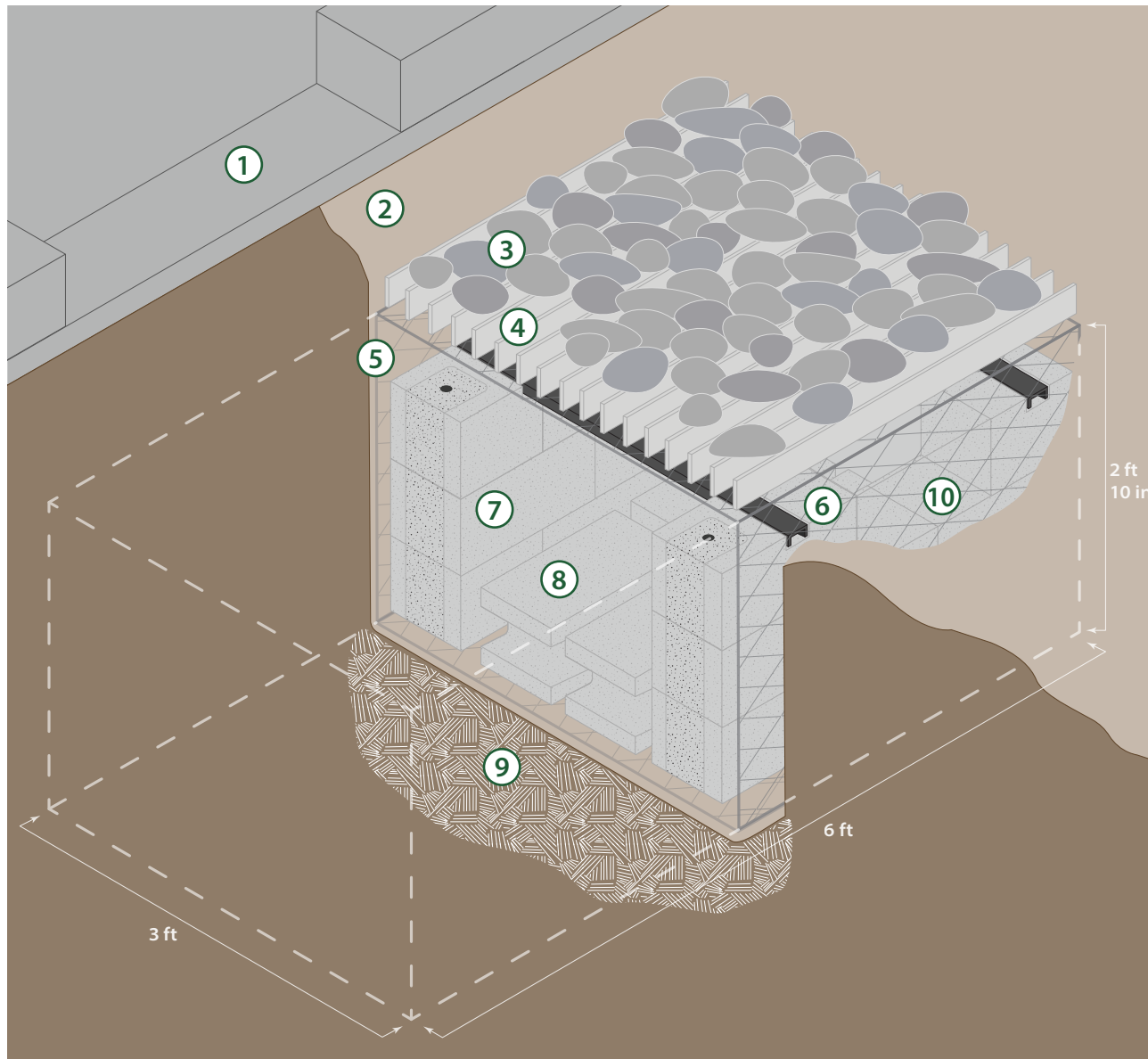


The Sediment Trap captures debris. By removing particulates entering and exiting the rain garden, the trap helps with the important work of cleaning streets and stormwater.



# SEDIMENT TRAP DESIGN FOR MIDDLE INTENSITY SEDIMENT COLLECTION

CUTAWAY VIEW: Construction materials and other key elements (full size of trap is indicated by dashed lines)



- ① **CURB CUT**  
4 feet wide
- ② **SLOPE FROM CURB**  
4-inch drop
- ③ **RIVER ROCKS**
- ④ **GALVANIZED STEEL GRATE**  
For additional load-bearing capacity
- ⑤ **GABION WIRE CAGE**
- ⑥ **C-CHANNELS**  
For supporting grate above; recessed into CMU walls  
  
Alternate detail: flat steel can be used instead, with rebar stubs welded to pieces to help keep them in place
- ⑦ **CMU WALLS**  
Filled with concrete and reinforced with rebar
- ⑧ **CMU BLOCK FLOOR**  
Space between blocks on sediment trap floor allow some water to infiltrate into soil below  
  
Flat side up to facilitate cleaning with square-point shovel
- ⑨ **MYCORRHIZAL INOCULANT**
- ⑩ **OUTFLOW**  
Filtered water exits sediment trap through shorter section of wall

designed and installed by:



PO Box 33672  
Santa Fe, NM 87594  
(505) 819-3769  
www.sowsfe.com

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