

Chapter 11 - Structural Repairs

SECTION 06 SCOUR / EROSION REPAIRS (SR-SCOUR)

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<u>GENERAL NOTES</u>

I. It is preferable to place a single layer of grout bags instead of stacking. Place filter fabric under all grout bags including a single layer of bags.

2. If bags are stacked, overlap the joints of the preceding layer.

- 3. If possible, bags should be placed so that the top of the bag is at or below the stream bottom. (When filling a scour hole, keep the top of the bag at or below the stream bottom).
- 4. If the stream bed consists of soils that allow for settlement of the grout bags, do not tie the bags together. If the stream bed consists of a hard stiff soil/clay or an erodable rock, which the grout bags will never be able to settle, tie the grout bags together so they do not get washed away.
- 5. Grout bags should be no larger than 3' wide, 4' long and 1' thick.
- 6. The bag placed directly in front of the nose of the pier should be the width of the exposed portion of the pier. Similarly, make sure no gaps form between the bags and the front face of the footing.
- 7. Do not overfill the bags or allow grout to be poured between the seams of two bags.

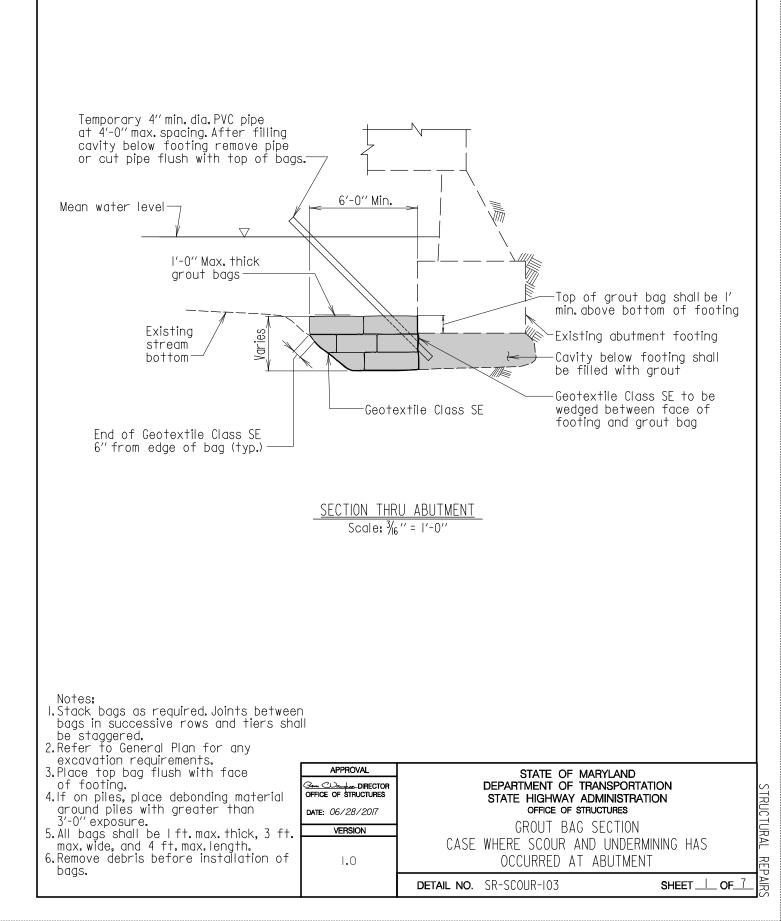
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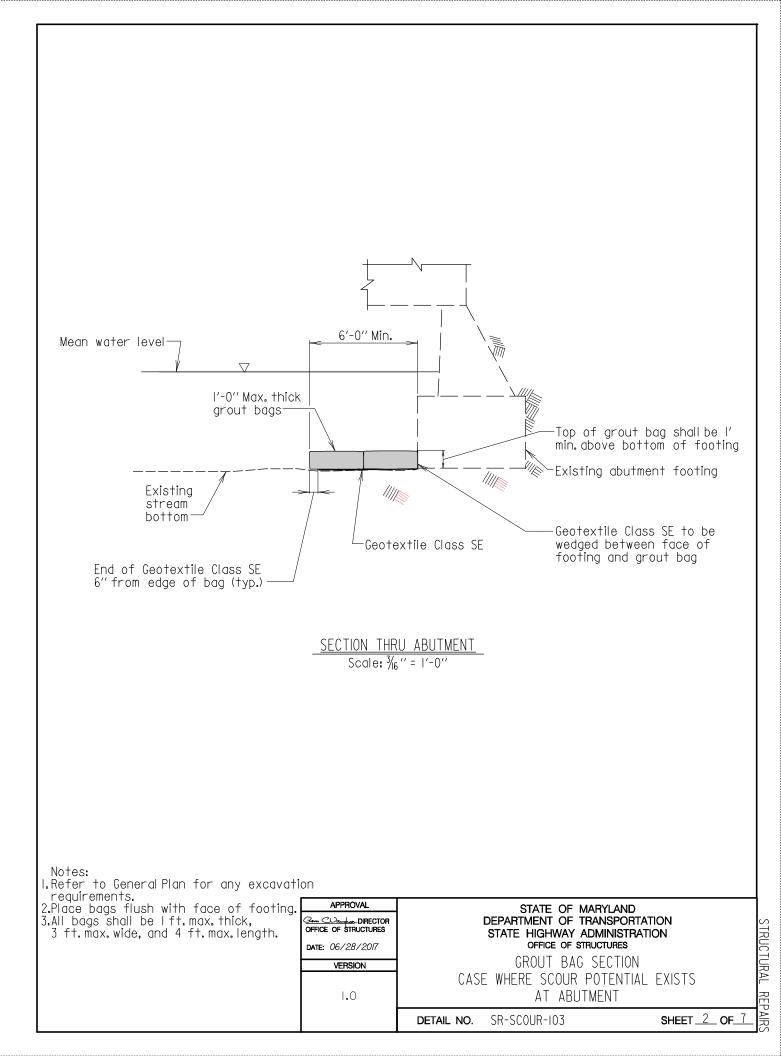
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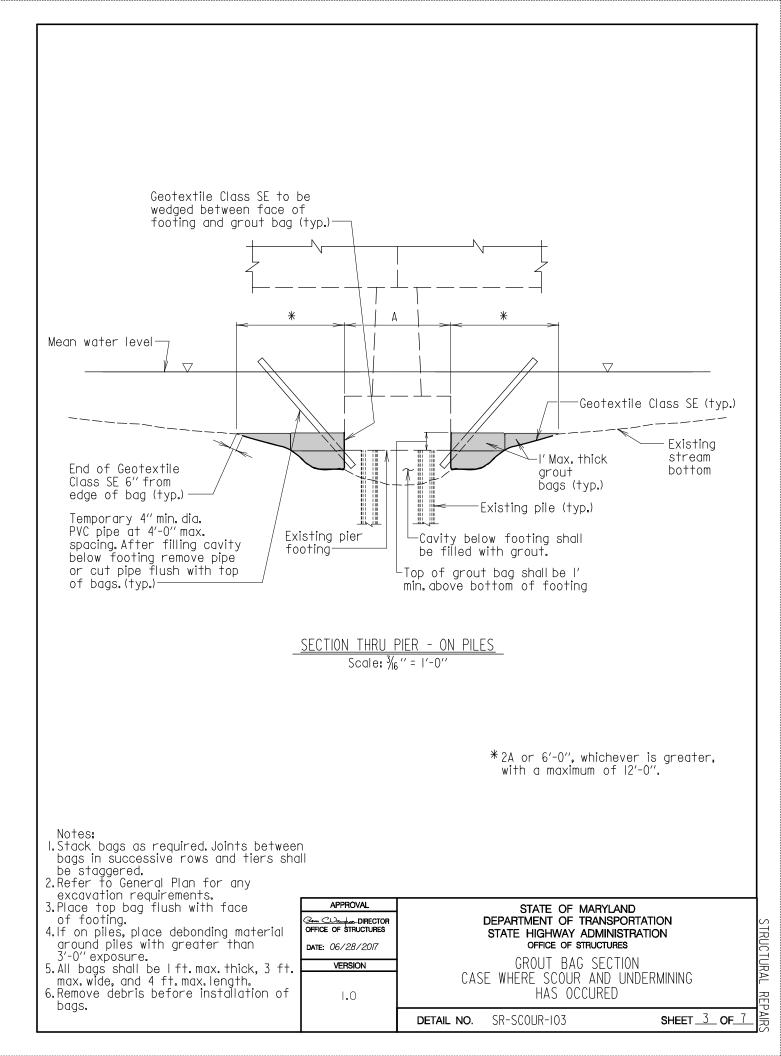
<u>GENERAL NOTES</u>

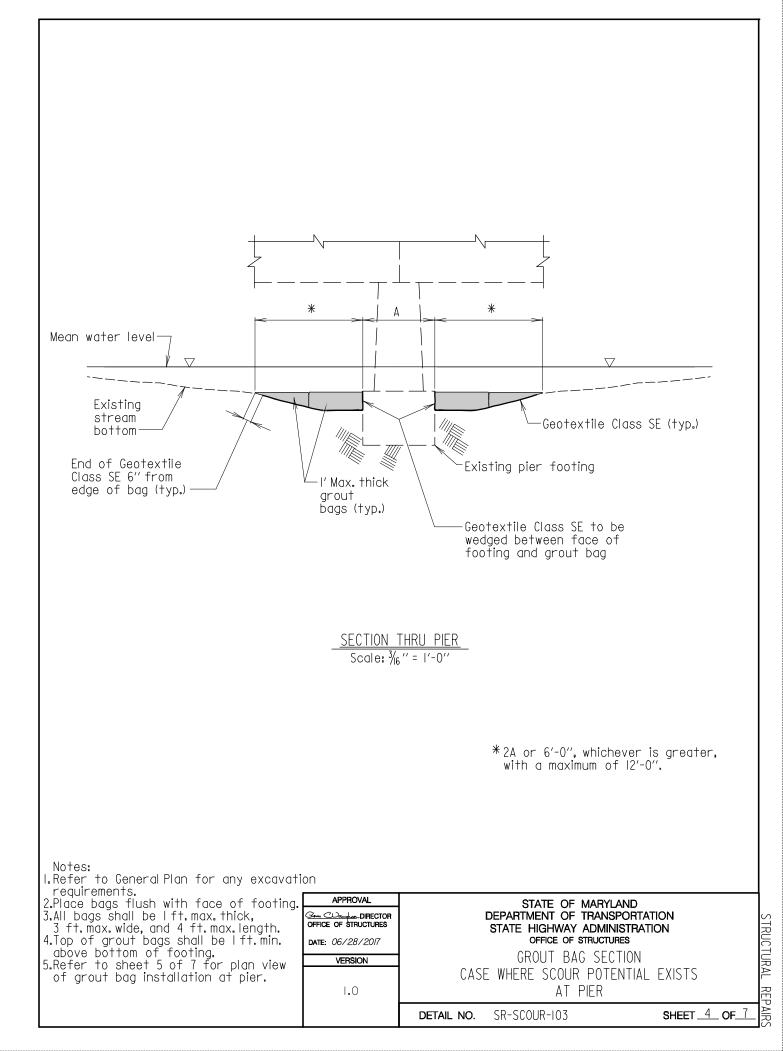
- I. Depending on the depth of the undermining, place one grout bag or stack several layers of grout bags along the face of the abutment or pier in front of the undermined area. If bags are stacked, bags in successive rows and tiers shall be staggered.
- 2. Once the vent/fill pipes have been installed and the bags are filled, pump the grout into the undermined area until grout appears in the top of adjacent vent pipes. Cut or remove the vent/fill pipes flush with the top of the bags after the pumping operation is complete.
- 3. Adequate venting of the water to be displaced in the undermined area is important. The water must be able to escape when it is displaced by the grout pumped into the cavity. A 4' maximum spacing of the vent/fill pipes is recommended.
- 4. It is important to keep the nozzle buried in the grout during the pumping. This is to reduce the amount of mixing of the grout and the water to be displaced.
- 5. Debonding jackets should be placed around piles to prevent the grout from adhering to the piles if the exposed height is 3'-0" or greater. This is to prevent the additional weight of the grout from reducing the piles capacity.
- 6. If possible, clean out unstable material along the bottom of the undermined area prior to filling with grout.

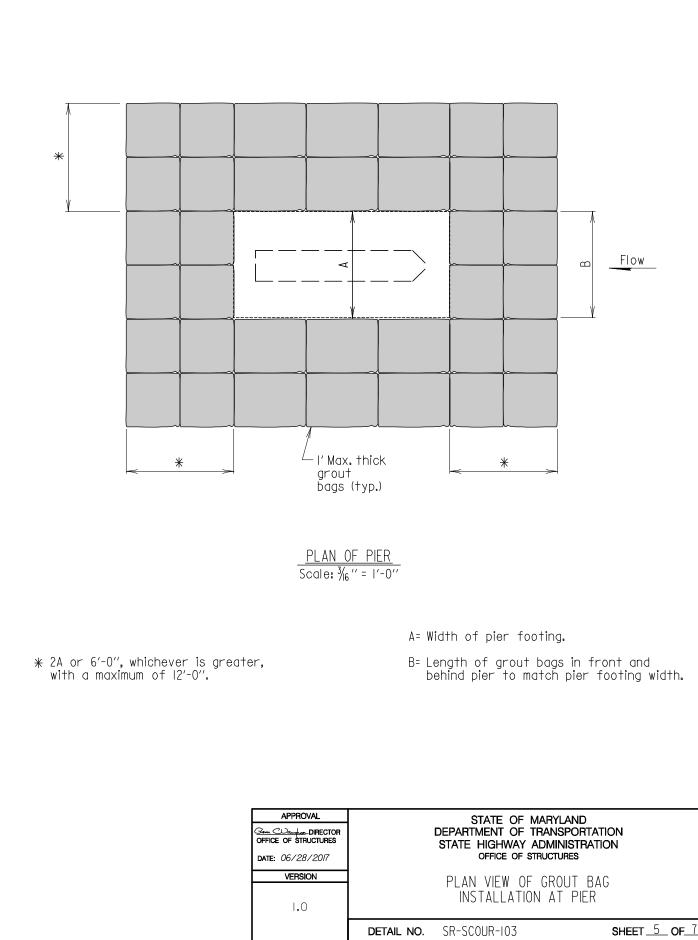
APPROVAL	STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF STRUCTURES					
VERSION	GROUT BAG INSTALLATION FOR UNDERMINED					
	AREAS AT PIERS AND ABUTMENTS					
1.0	GENERAL NOTES					
	DETAIL NO. SR-SCOUR-102 SHEET OF					











STRUCTURAL REPAIRS

