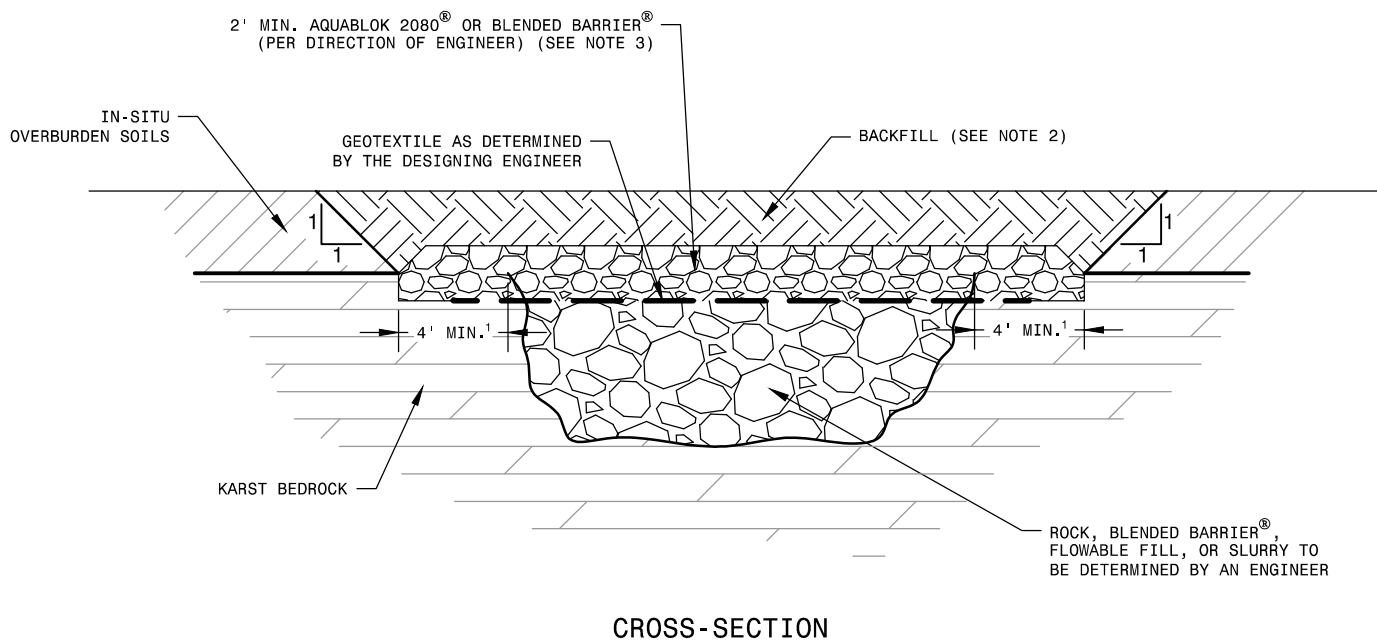


APPROACH: KARST FORMATIONS, WHEN EXPOSED TO MOVING WATER RESULT IN SOLUTION CAVITIES WITH CHANNELS CREATING VOIDS WHICH CAN LEAD TO STRUCTURAL COLLAPSE - STANDARD APPROACHES ARE TO FILL THE VOIDS TO THE EXTENT POSSIBLE WITH MATERIALS THAT CAN BE LOAD BEARING, YET, IDEALLY RESTRICT THE PASSAGE OF SEEPAGE WHICH WOULD OTHERWISE CONTRIBUTE TO NEW CAVITIES, PARTICULARLY AT THE PERIMETER OF THE REPAIR. USING AQUABLOK® TO PROVIDE A TRULY, NON-SHRINK, VERY LOW PERMEABILITY SEAL BETWEEN THE REPAIR AND SURROUNDING AREA CAN BE A RELATIVELY LOW-COST ADDITION TO TRADITIONAL BACKFILLING OF SINKHOLES THAT WILL PROVIDE GREATLY INCREASED PROTECTION AGAINST FUTURE FAILURE OF THE REPAIR.



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## LOW-PERMEABILITY SOLUTION FOR SINKHOLE REPAIR ENHANCEMENT

Scale: N.T.S.

NOTES:

1. THE EXTENT BEYOND THE SINKHOLE TO BE DETERMINED BY THE DESIGNING ENGINEER.
2. BACKFILL SHALL CONSIST OF NATIVE SOIL WITH SIMILAR DENSITY, UNLESS REPAIRED AREA IS UNDER A STREET, OR OTHER ACTIVE LOAD SCENARIO.
3. AQUABLOK® TO BE PLACED 1' ABOVE AND BELOW THE BEDROCK LAYER FOR 2' MINIMUM RECOMMENDED THICKNESS.



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### KARST SINKHOLE REPAIR DETAIL (NOT TO SCALE)

PROJECT NO.: AQB105	SUBMITTAL DATE: JULY 2021
CAD DWG FILE: AQB105.100.0039	PLOT DATE: 7/1/2021



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