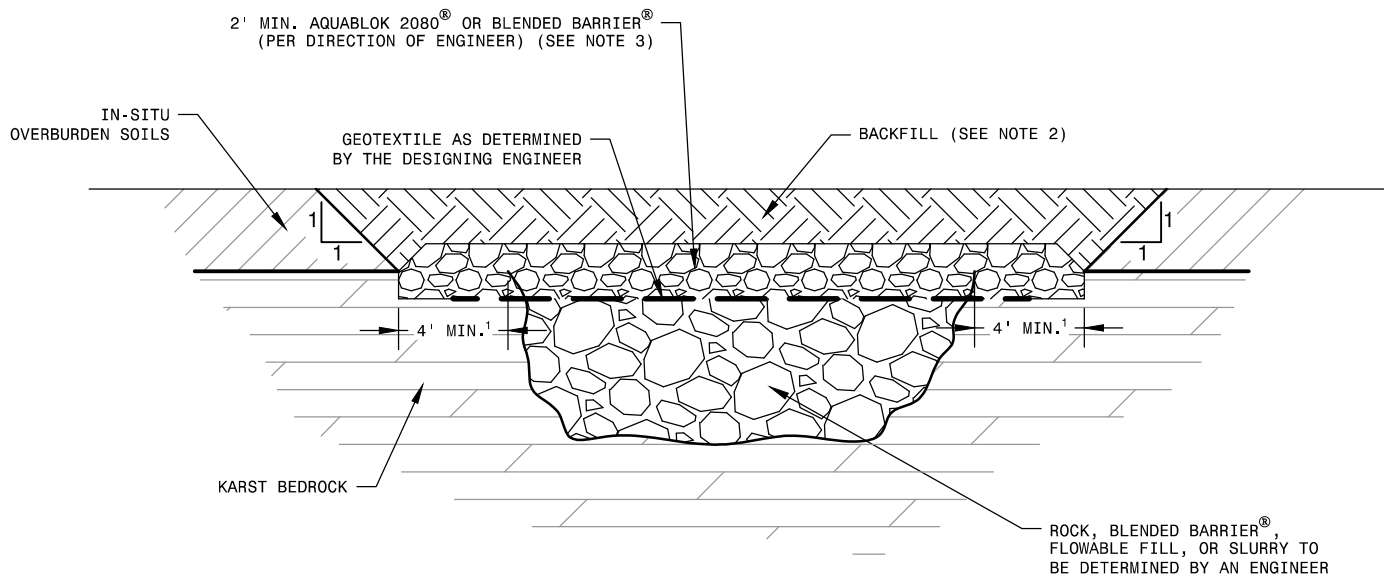


APPROACH: KARST FORMATIONS, WHEN EXPOSED TO MOVING WATER RESULT IN SOLUTION CAVITIES WITH CHANNELS CREATING VOIDS WHICH CAN LEAD TO STRUCTURAL COLLAPSE - STANDARD APPROACHES ARE TO FILL THE VOIDS TO THE EXTENT POSSIBLE WITH MATERIALS THAT CAN BE LOAD BEARING, YET, IDEALLY RESTRICT THE PASSAGE OF SEEPAGE 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.



CROSS-SECTION

1

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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Supply Inc.



Quick
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Cascade
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SOLUTIONS WE SUPPLY

GEOSYNTHETICS

Filter Fabrics

Stabilization Fabrics

Geogrids

- Road Grids
- Wall Grids
- Slope Stabilization

Specialty Fabrics

Composite Geomembranes

- GCLs, PVC, HDPE, LLDPE, EPDM, Granular Bentonite

SEDIMENT CONTROL

Inlet Protection

- Grated Inlet, Curb Inlet, Area Inlet Protection

Ditch Checks

- Triangle Silt Dike
- GeoRidge

Perimeter Protection

- High and Low-Porosity Silt Fence, Straw Wattles, Silt Socks
- Safety Fence

Flocculants & Water Treatment

- Polymer-Based & Natural Flocculants

Sediment Basin Skimmers

Dewatering Bags

Trackout Control

- FODS
- Rumble Grates

Turbidity Curtains

EROSION CONTROL

Basic Hydraulically Applied Mulches

- Wood
- Paper
- Blends
- Straw

High-Performance Hydraulically

Applied Products

- BFM
- FGM
- Additives & Tackifiers

Temporary Erosion Control Blankets

- Coir & Jute Mat/Nettings
- Short-Term ECBs
- Extended-Term ECBs

Permanent Erosion Control Blankets

- Turf Reinforcement Mats
- HP-TRMs
- Anchor Reinforced Vegetation System

Structural BMPs

- Transition Mats
- Geoweb Cellular Confinement
- Composite Vegetated Armor System
- Flex MSE Vegetated Wall System
- Articulated Concrete Block
- Gabions
- Grout-Filled Geotextile Mats

Vegetation Establishment

- Native Seed & Turf Seed
- Fertilizers
- Organic Soil Additives
- Stratavault Soil Cells

STORMWATER MANAGEMENT

Water Quality

- Inlet Filter Boxes
- Pre-Treatment Chamber
- Nutrient Separating Baffle Boxes
- High-Flow Biofiltration Media
- Hydrodynamic Separators
- Stratavault

Water Quantity

- Modular Underground Storage Systems
- Chamber Detention Systems

Drainage

- HDPE Swale Liner
- Pipe & Fittings
- Drainage Composites
- Strip Drain

Inlet Structures

- PVC
- Drain Basins, In-Line Drains
- Landscape

Permeable Pavers

- Permeable Articulating Concrete Block
- Grass Pavers
- Gravel Pavers
- Concrete Pavers

SPECIALTY

Natural & Synthetic Coir Fiber Logs

Vegetated Reinforced Soil Slopes

Soil Anchors

Root Barrier System

AquaBlok

Muscle Wall

We are full line distributors of construction materials for all project types. Contact us for assistance with a project. From specification and development to installation and completion, we're here to help with all of your site solution needs.

**GEOSYNTHETICS | EROSION CONTROL | STORMWATER MANAGEMENT
SEDIMENT CONTROL | REVEGETATION & SOIL AMENDMENTS**