19th Avenue Bridge Geofoam Installation

by Darin Bailey
PROJECT: 19TH AVE BRIDGE OVER THE CAP

OWNER: CITY OF PHOENIX

CONTRACTOR: HUNTER CONTRACTING CO.

PRECONSTRUCTION: August 2008 - February 2008

PROJECT DURATION: September 2010 – December 2011

TOTAL CONTRACT: $11,967,137.10

GEOFOAM PORTION: $488,000 or 4% of contract.
54” WATER TRANSMISSION MAIN

- PRESTRESSED CONCRETE CYLINDER PIPE (PCCP)
- MAIN SUPPLY TO ANTHEM
- DESIGNED FOR SPECIFIC DEAD LOAD
  - Lowering the bridge imposed live load that would cause the line to fail.
- EMERGENCY RESPONSE PLAN
SUPPLIER: ACH FOAM TECHNOLOGIES (MURRAY, UT)

QUANTITY: 76,000 cf

WEIGHT: 1.8 pcf

PURCHASE COST: $2.82/cf

TOTAL INSTALLED: $6.35/cf

LIGHT WEIGHT FILL MATERIAL

TREATED WITH PERFORM GUARD - TERMITE
COOLGUARD HRL36 GEOMEMBRANE

- Resistance to chemical spills
- Protection from contaminants in soil
- Durable
- UV resistant
- Flexible and easy to use
- Able to weld joints in the field
GRIPPER PLATE

- 4” X 4” SQUARE
- 4 EA. PER 4’ X 8’ AREA
LOAD DISTRIBUTION SLAB

- 6” REINFORCED SLAB
- EXTENDS 2’ PAST ANY VERTICAL EDGE INCLUDING ENDS
- TRANSVERSE REBAR
  - #6 @ 9” O.C.
- LONGITUDINAL REBAR
  - #4 @ 18” O.C.
- MAG A – 3000 psi CONCRETE
- 275 cy USED