

# PCMA MASONRY *tip*

## NEW TECHNOLOGIES FOR SEGMENTAL RETAINING WALL

### SEGMENTAL RETAINING WALL (SRW) CONSTRUCTION IS NO LONGER ONE DIMENSIONAL AND LIMITED TO ONLY GRAVITY WALLS AND GEOGRID REINFORCED WALLS.

■ **Stabilized Aggregate** – (a.k.a. “no fines concrete,” “permeable concrete” and “pervious concrete”) can typically reduce the SRW construction depth to 40% of the total wall height whereas normally it is 70% - 80% with geogrid. This special batch design of redi-mix concrete uses pea gravel aggregate and is poured within and behind the SRW blocks. The concrete increases the mass of the wall facing and essentially creates a large gravity wall structure with SRW facing. No gravel is necessary because the concrete is porous and serves also as the drainage material.

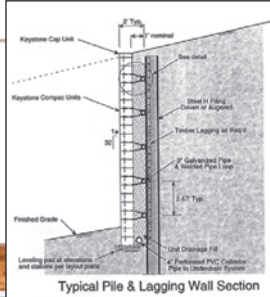
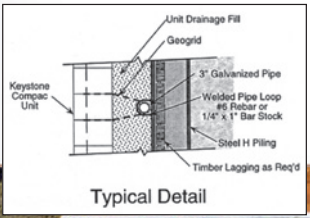
■ **Sheet Pile Wall & Soldier Beam Wall Facing** – SRW makes a very attractive and economical facing for pile type walls. The SRW blocks function only as a veneer and are attached to horizontal pipes with short lengths of geogrid (the pipes are fastened to the vertical piles). The SRW blocks and the void area behind them are filled with #57 stone. This technology has been around for a number of years but is becoming increasingly popular as job sites continue to get tighter.



✦ **EXCITING NEW CONSTRUCTION TECHNIQUES HAVE ALLOWED SRW TO BE USED ON PROJECTS WHERE CONVENTIONAL GEOGRID LENGTHS CAN NOT BE USED DUE TO SITE RESTRICTIONS SUCH AS PROPERTY LINES, ROCK AND UTILITIES.**

Additional information regarding Segmental Retaining Wall Construction is available at the link below on the National Concrete Masonry Association (NCMA) website.  
[www.ncma.org/resources/productuse/products/segmental/Pages/default.aspx](http://www.ncma.org/resources/productuse/products/segmental/Pages/default.aspx)

The PCMA website [www.pacma.com](http://www.pacma.com) features a listing of producer members and their contact information and more.



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