

# CONSTRUCTION MATERIALS

## QUALITY ASSURANCE/MONITORING

**Client:** HDR, Engineers  
333 Penco Road  
Weirton, WV 26062  
304-748-8740

**Work Timeframe:** 1999 to 2002

**Services completed:** Quality assurance and monitoring of materials and methods used for installation of highway systems in District 3 of West Virginia Department of Highways. Includes compaction monitoring of manufactured roadway materials (stone and asphalt) using nuclear density methods; compaction monitoring of on-site and off-site fill materials (soil fill) using nuclear density and field Proctor methods; concrete testing using slump and entrained air methods; laboratory concrete cylinder testing for compressive strength; preparation and screen analysis of manufactured construction materials; field monitoring of compaction methods (roller pass method); monitoring of concrete plant mixes; field sampling of manufactured construction materials; auditing and checking of resulting paperwork, all performed to West Virginia State Highways specifications (based on AASHTO and ASTM specifications).

