PaveDrain® Engineering Design Checklist

The PaveDrain System is a flexible paving surface. If the base is not stable then the PaveDrain System will not perform correctly.

❑ All PaveDrain designs are project specific based on actual site conditions and the *FINAL* design is the responsibility of the Engineer-of-Record.

❑ All information on the PaveDrain website (i.e. Brochures and Standard Details) are meant to be conceptual only and not interpreted as final design for any project.

❑ First, obtain geotechnical data – *soil borings, infiltration rates*, and *CBR values.* Without a proper base design, your project is in jeopardy.

❑ Design the system to handle the anticipated transportation live load and size the depth of stone and geotextile requirements accordingly using AASHTO design methodology like *Tencate MiraSpec Design Solutions Software.* *http://www.mirafi.com/miraspec*
- Specify a woven **monofilament** or **multifilament** geotextile as needed for separation, strength and permeability. Our most frequently utilized geotextiles are listed below.
  <u>*NOTE: Do NOT specify ALL listed below. Design your project around the soils that exist for your site.*</u>
    - Mirafi FW402 - http://www.tencate.com/amer/Images/TDS_FW402_tcm29-16694.pdf
    - Mirafi RS380i - http://www.tencate.com/amer/Images/TDS_RS380i%20_tcm29-9610.pdf
    - Mirafi RS580i - http://www.tencate.com/amer/Images/TDS_RS580i_tcm29-9611.pdf

❑ Stormwater storage and infiltration requirements vary around the country. The PaveDrain System and the stone reservoir can be sized with *HydroCAD Stormwater Modeling Design Software* or the *PaveDrain Infiltration Calculator*
- HydroCAD http://www.hydrocad.net/ref/pavedrain.htm
- *PaveDrain Infiltration Calculator.* E-mail info@pavedrain.com for assistance.

❑ Create a *plan view* and *profile section* for the PaveDrain System
- http://www.pavedrain.com/pdf/specifications/PaveDrain-X-Sections.pdf
- *AutoCAD* is available from PaveDrain at info@pavedrain.com

❑ Calculate the total square-foot required for the PaveDrain System and supply quantity on plans.

❑ Develop written PaveDrain *performance based specification.* info@pavedrain.com for assistance.
- http://www.pavedrain.com/pdf/specifications/PaveDrain-S6-45-Spec.pdf

❑ Do you need an *under-drain or over drain* for poor draining soils?
- http://www.pavedrain.com/pdf/specifications/PaveDrain-Underdrain-Section.pdf

❑ Are you using PaveDrain on a *slope* greater than 5%? Consider benching the foundation and using check dams. E-mail at info@pavedrain.com

❑ Use the PaveDrain *end cap* as an expansion joint and separator between different materials such as traditional asphalt, concrete and soil.
- http://www.pavedrain.com/pdf/specifications/PaveDrain-End-Cap-Detail.pdf

❑ Select a PaveDrain *color.* http://www.pavedrain.com/pdf/specifications/PaveDrain-Colors.pdf

❑ Develop a maintenance schedule. http://www.pavedrain.com/installation-maintenance/

You're complete…congratulations.