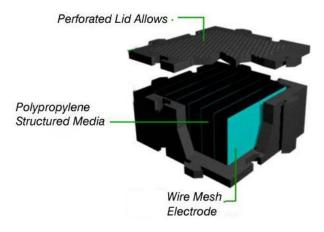
Generalized Modular Unit



- Utilizes super-absorbant polymer for storm water retention
- Wire mesh electrode allows water flow and provides low level electrical current to the cells
- Perforated Lid Provides Support for Pourous Surfaces or Stand-Alone Operation
- Modular design provides versitility and simplifies installation

Case Study: Skokie

- Based on NOAA data, average 2-year, 1-hour storm delivers 13,425,000 cubic feet (100,419,000 gallons) in Skokie
- The fully implemented system can retain up to 12,926,000 cubic feet (96,687,000 gallons)
- 96% of storm water retained, or about 21% of total daily flow for NSWRP (450 MGD)



Impact

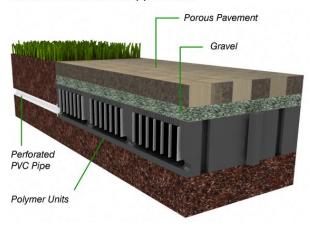
- Distributed design minimizes impact if individual parts fail
- Controlled release has possible 'urban irrigation' applications
- Distributed suterranian volume leaves open space and does not require large pits for tanks

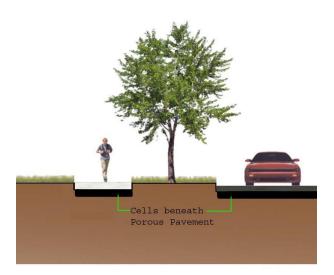
Design Adaptations

- Cells may be filled with a thermally activated compound
- Pouch cell for mobile water retention

Application Diagrams

Residential Sidewalk Application:





The Team

Shawn Shoulders

Sarah Johnson

Chance Lebron

William Lewis

James Myers

Karol Rybaltowski

Nan Wang

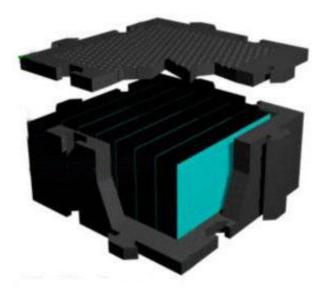
Gregory Weipert

Helen Yeung

IPRO 312

Active Porous Pavement System

for Storm Water Control



Please print double sided....with the headings aligned at the same edge, front and back will be used as a tri-fold Thank you

-Shawn Shoulders