

# STORM WATER SOLUTIONS WITH PERVIOUS CONCRETE

## The Wallace Group Advantage

### PERVIOUS CONCRETE BASICS

- Helps attain up to two LEED points for storm water quality and quantity
- Helps meet most local agency standards for storm water quality
- ADA compliant
- Can be integrally colored or stained
- Allows adjacent trees to thrive due to water infiltration and oxygen exchange through the concrete
- Can be striped or painted like any pavement
- Mix design matters - Long term pavement performance requires a well engineered concrete mix
- Specifications matter - A thorough specification written by an engineer experienced in pervious is critical to success
- Placement craftsmanship matters - Choose a NRMCA Certified Pervious Concrete "Installer" or "Craftsman"
- Like all storm water infrastructure, simple annual maintenance is recommended

### WALLACE GROUP PERVIOUS CONCRETE DESIGN SERVICES

Three steps for a successful project...

#### STEP 1 - HYDRAULICS & WATER QUALITY

- Pervious concrete as detention or retention basins
- Hydrologic/hydraulic analysis and modeling
- NPDES Phase 1 and 2 compliance assessments
- Implementation with complementary technologies such as conventional storm drains, water reclamation systems, infiltration trenches, dry wells, and bio-swales

#### STEP 2 - ENGINEERING

- Pervious concrete specifications preparation
- Pervious concrete mix engineering
- Structural design of pavement section
- Expansive soil mitigation solutions
- Nearby foundation protection solutions
- Cost estimating and alternatives analysis

#### STEP 3 - CONSTRUCTION MANAGEMENT

- Contractor submittal processing and responding to RFIs
- Verification of delivered concrete, ready-mixed concrete batch ticket review
- Verification of proper concrete water content during placement
- Inspection of placement and screeding process
- Inspection of covering, protection, and curing process

### WALLACE GROUP SUSTAINABLE DEVELOPMENT EXPERIENCE

- LEED Accredited Professional
- Low impact development
- Grey water systems
- Master planning for water and wastewater
- Constructed wetlands
- Creek restorations



*Pervious concrete fresh from the mix truck*



*Striking off the pervious concrete with a special hydraulic roller-screed*



*The finished product after curing is complete*

