

**Knoxville Energy and Sustainability Task Force**  
**Infrastructure Working Group Overview 06-02-10**

---

**Objective:** evaluate impacts of current City government practices, research, and recommend affordable and practical ways to incorporate sustainability into elements of street design.

**Working Group Scope** – within the areas elaborated below, the working group will:

- evaluate environmental and economic impacts of current practices;
- identify and prioritize most effective areas for improvements;
- Analyze and propose strategic and viable methods for incorporating sustainable design and/or operation standards into engineering practices.

**Recommendations for Improved ROW design (BMP manual) to address:**

- Pavement width by street classification;
- Pavement materials;
- Insitu retention;
- Drainage ways design, location, etc.;
- Natural filtration prior to water entering storm water system;
- Size, material and placement of sidewalks, bike lanes/ways, etc.;
- Landscaping:
  - what/how much is required
  - restriction of species (native, low water needs, etc);
  - what is NOT allowed
- Utilities:
  - location/zone
  - regulation of design standards for future repair and improvements

**Other existing efforts to coordinate with:**

Tree Board  
Steep Slope / Ridgetop Task Force  
Sidewalk Committee  
Storm Water Ordinance  
City Streets Committee (Chris Cherry, chrmn. Steve is on it; Wayne used to be)

**Next Steps:**

- BMP manual identified by Engineering as group focus for recommending changes:  
[http://www.cityofknoxville.org/engineering/bmp\\_manual/knoxvilleBMP.pdf](http://www.cityofknoxville.org/engineering/bmp_manual/knoxvilleBMP.pdf)
- Identify BMPs (generic design standards) that need to change or improve from a water quality perspective.
- For each of the items, are there any 'best practices' from other cities, or if Eng already has a proposal (no re-inventing wheels).
- Could we default to 'what does staff know?' first, then look for volunteers?
- Unless you or Engineering directs us otherwise, I'd like the WG to develop fairly qualitative recommendations - 'we'd like it to look like x' sort of thing; then get staff to quantify and bring back to WG for review and confirmation.
- Request volunteer(s) to ride-herd on each topic.