

Expert Judging Criteria



Judging ID Number: 03EJ-E

Team Number of Entry 03-02

Design Category of Entry: Urban Residential Development – Barnard Trace

Judges' Comments:

This is a good urban design; the side yards appear a little tight, but the structures generally follow the rhythm of the street and they should integrate well with their surroundings. Some would argue that detached garages are no longer in vogue, but I believe that they are used here very effectively to define private open space that might not otherwise exist.

This very creative approach to LID appears to be a concerted effort to reduce runoff as close to the source as is possible, which I like very much. Whether they are maintained by the city or a homeowner's association, conveyances and holding areas require maintenance and any effort to reduce the need for these seems worthwhile. I would have liked to have gained a better understanding of the maintenance requirements of the cisterns, which I assume fall upon the individual homeowner. How long do they last? How much do they cost to fix? The citizens of Tulsa will be relying on these homeowners to keep these facilities in working order at all times; a failure here creates problems downstream.

The "proposed code changes" were a missed opportunity, in my opinion. Code review is a difficult and time-consuming process, but the City of Tulsa is currently revising its zoning code and subdivision and the reviewers are hungry for recommendations on how we can make LID more feasible.

While I may still have some questions and even a few reservations about this new (to us) approach to stormwater management, this team's creative, attractive, and compelling proposal has won me over. Well done.

Total Points Accumulated: 77 out of 100

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How well does this site conserve natural resources that provide natural functions associated with controlling and filtering storm water?

8 of 10 points

- How well does this site use decentralized, small-scale landscape features and LID Integrated Management Practices (IMP) working as a system to:
 - Reduce the amount of runoff by mimicking the natural hydrologic function of the site and matching pre-development hydrology?

10 of 10 points

- Minimize the use of and/or reduce the size of pipe and other centralized control and treatment infrastructure?

10 of 10 points

- How well does this site minimize and disconnect impervious surfaces, lengthen time of concentration and promote bio-filtration of runoff to improve the quality of storm water leaving the site?

8 of 10 points

- How well does this site minimize or eliminate the use of potable water resources needed for irrigation and where practical provide for the reuse of rainwater?

8 of 10 points

- How well does this site use enhanced quality of life values and reduced maintenance costs inherent in LID practices to increase marketability of the development and long-term property values?

7 of 10 points

- How well does this site correctly identify current codes that prohibit the construction or implementation of your prescribed LID techniques?

5 of 15 points

- How well does this site address the aspects of your area of expertise in architecture, landscape architecture, hydrology/hydraulics/civil engineering, stormwater quality, or planning/development/consulting?

8 of 10 points

- How well do the team's submitted materials address grammar, editing, appearance, and verbiage ?

5 of 5 points

- Does the team's design adequately compare the costs of LID versus conventional design? Is their design a better investment, in your opinion, than the conventional design?

8 of 10 points

Total Points Accumulated: 77 out of 100