

St. Arnold Brewery

Lot 1: 19K SF; Lot 2: 17K SF

Challenges:

1. Urban location – Limited land
2. Stormwater Runoff
3. No Maintenance Lot Desired
4. City Restrictions for Impervious Cover
5. Heat from Asphalt
6. Pooling Water & Flooding
7. Cracked Concrete & Broken Asphalt

Solution:

TRUEGRID with ¾" Crushed Limestone



TRUEGRID® Project Scorecard

Parking Spaces Gained:	31 Spaces (28%)
Land Utilization:	100% vs 72% with concrete
Plastic recycled & saved from landfill:	45,720 lbs
CO ₂ emissions eliminated by Exclusion of Concrete	231 tons
Project Savings vs Concrete before land savings:	97,000

LEED Credit Opportunities with TRUEGRID®

- Stormwater Management
- Recycled Content
- Innovation & Design
- Materials & Resources



The Project:

Houston's oldest microbrewery had a parking problem. As St. Arnold's business has grown, so have their parking needs. The brewery is located near downtown with limited space. Two expansion lots had serious problems.

Lot 1 had old cracked concrete, serious flooding and pooling issues and needed to be replaced. Remediation was needed for contaminated soil under and around the lot from old industrial activity on the site.

Lot 2 was to be redesigned to remove torn up asphalt as well as replace some of the green space that was needed for parking. Budget and expensive land made retention/detention and drainage a costly proposition.



The TRUEGRID Solution:

By using TRUEGRID permeable paving with a 6" recycled road base sub-base and #57 rock fill (3/4" crushed limestone), 100 % land use and maximum lot utilization and efficiency was achieved. More cars fit safely in the lots. Storm water is managed and retained in the lot after the heaviest downpours while the surface is dry. No more stepping into puddles when you exit your vehicle so customers are happy.



Nothing says success like a repeat customer. St. Arnold ordered Lot 2 done with TRUEGRID about 8 months after the first TRUEGRID lot was completed.



The Execution:

Cracked concrete and contaminated soil were removed from Lot 1. After grading 6" of recycled road base was laid and compacted. The grid was installed and filled with 3/4" clean limestone. Parking stripes were painted for marking parking spots and remain very visible 18 months later without maintenance. Lot 2 required removal of broken asphalt and some dead grassy medians. The same procedure was followed as with Lot 1. No additional drainage or retention elements were added apart from the TRUEGRID system.

Repeat orders are the best testimonial.



New TRUEGRID Side



Old Concrete Side

Estimated Project Savings:

- 1. Land value: \$22,176
- 2. Retention and Drainage elements: \$35,000
- 3. Square foot savings TRUEGRID system versus concrete: \$64,800

Total estimated savings: \$121,976