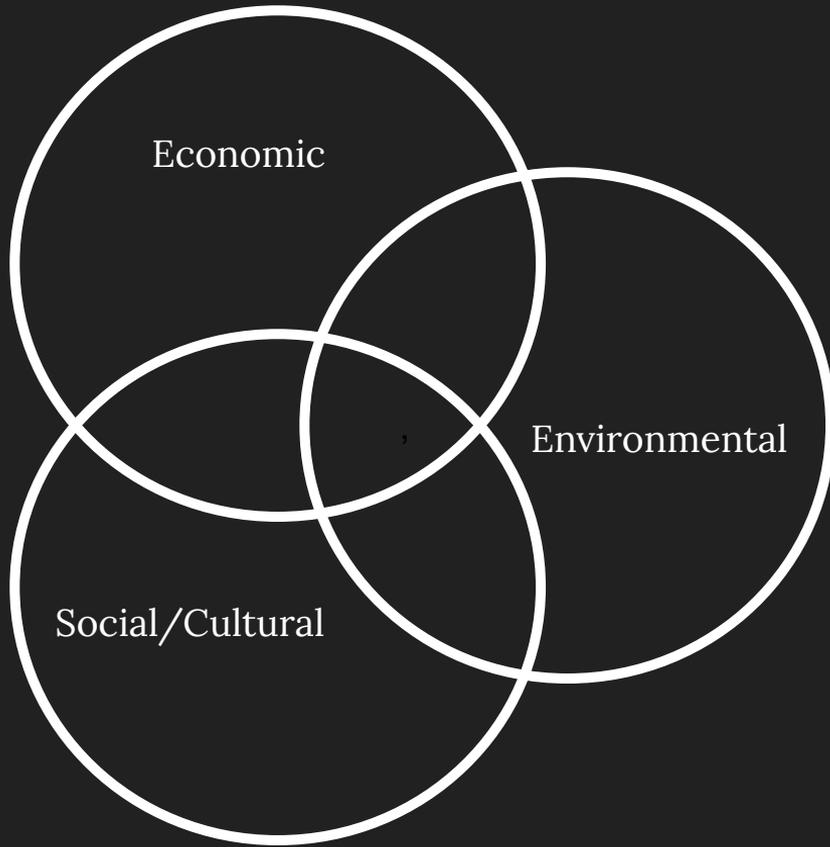


Sustainable Landscapes and Water-wise Landscaping Strategies

Aligning our principles with our processes



Sustainability

- Applying the concentric circles of sustainability to landscape systems
- Which circle is your priority?
 - Economic
 - Environmental
 - Sociocultural
- Need Analysis

Landscape Sustainability Scale

| | Environmental | Economic | Cultural |
|---------------------|--|--|---|
| Low Score 1 | <ul style="list-style-type: none"> - High water needs - High fertilizer needs - Unique soil conditions - High carbon output mechanical needs | <ul style="list-style-type: none"> - Large container size - Use of specialized plant varieties - High planting density - Specialized maintenance | <ul style="list-style-type: none"> - Special care required to ensure landscape survives usage - Low plant resilience - Four season use |
| Moderate Score 2 | <ul style="list-style-type: none"> - Average water needs - Occasion fertilization - Adaptable to existing soil types | <ul style="list-style-type: none"> - Mixture of container sizes - Use of available plant varieties and cultivars - General maintenance required | <ul style="list-style-type: none"> - Landscape will generally tolerate constituent usage - Occasional special plant maintenance required |
| High Score 3 | <ul style="list-style-type: none"> - Low water needs - Low or no extra fertilization - Waterwise plant usage - Low carbon mechanical needs | <ul style="list-style-type: none"> - Small container sizes - Naturalizing plants - Low or no maintenance requirements | <ul style="list-style-type: none"> - Landscape tolerates all forms of usage without deterioration - High natural resilience - Single season emphasis |

1 2 3

1 2 3

1 2 3

Score Total _____

Low Sustainability **3**



High Sustainability **9**



Needs Analysis

- Understand precisely what your values or those of your client are as they relate to landscape impact points
- Strip away initial assumptions
- Make intentional plans based on post-installation management strategies



Accurate Forecasting - From installation to maturity

- Understand the developmental stages of a maturing landscape
 - What inputs are required at specific times in order to achieve the desired outcomes
- Narrow the variability thresholds in order to make confident predictions
 - Utilize strategies that will simplify the process. BUT, make sure they align with the overall objectives of your project



Principles of Environmental Sustainability

- Appropriate water usage
- Carbon emissions reduction
- Carbon Sequestration
- Petro-chemical usage reduction
- Loosening our grip on the landscape
 - Being part of the process, not THE process
 - Using species naturalization to our advantage



Water-wise Landscaping

- Principle Components
 - Plant Selection
 - Arrangement
 - Maintenance
 - Water Delivery
 - Utilizing Naturalization
 - Patience and Perseverance



Naturalization

- Relinquishing control while increasing the probability of a predictable outcome
- Survival mechanism
- Resilience
- Understanding the effects of irrigation
 - Amount of water and mode of delivery
- Varying performance through differing horticultural techniques











