NMASLA Oct. 2013 Innovative Stormwater Infrastructure

Urban Acequias and the Desert Oasis

An Exploration of Integrated Water Infrastructure in Mendoza, Argentina.

By: Andrew Bernard











Integrated Infrastructure Model

Green Infrastructure.

Healthy Street Trees.

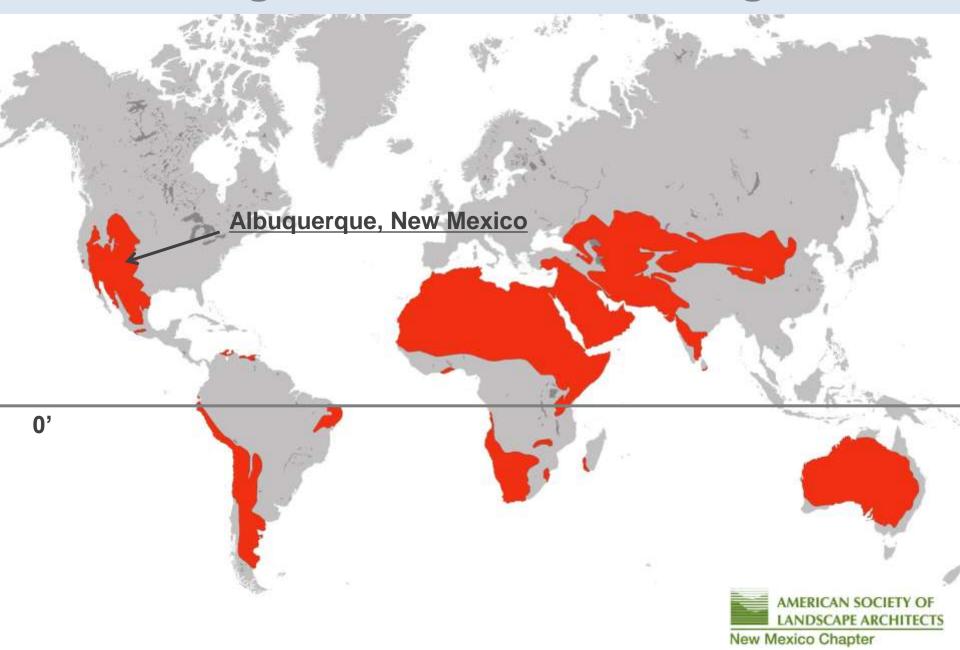
Functional and aesthetically pleasing.

Creates a more hospitable urban environment.

What would it look like?



Looking for Answers in Arid Regions

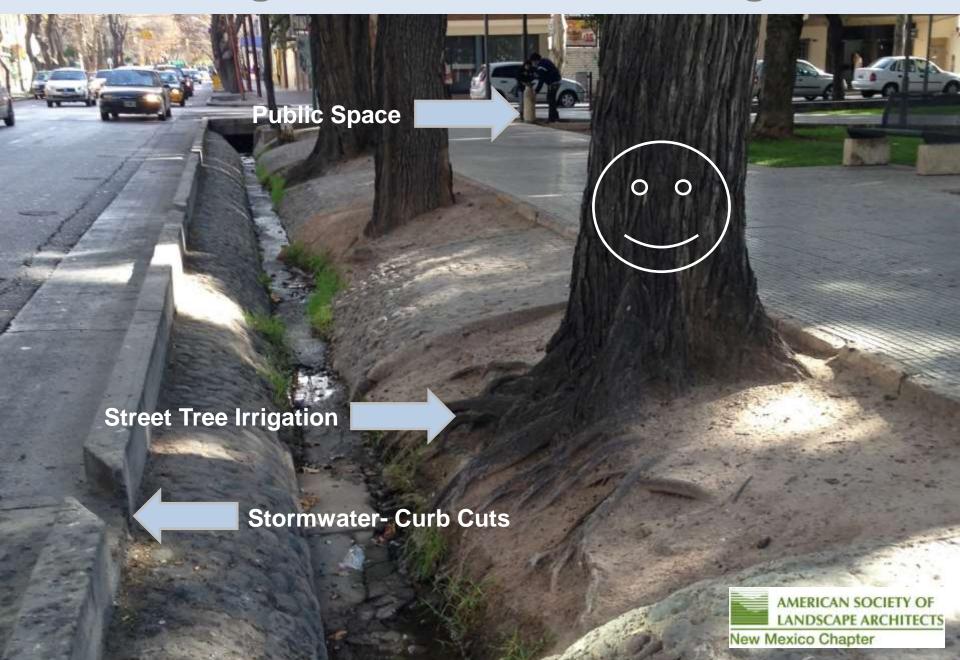


Looking for Answers in Arid Regions





Looking for Answers in Arid Regions









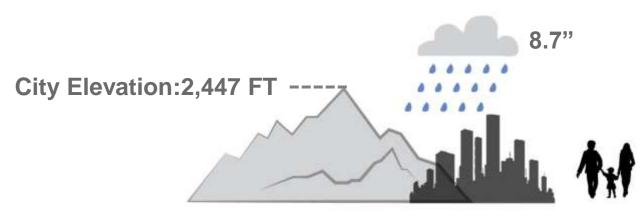


Albuquerque, New Mexico



Population: 901,700 (Metro Area)

Mendoza, Argentina



Population: 1,055,679 (Metro Area)



Feature	Albuquerque, New Mexico	Mendoza, Argentina
Latitude	35.0844°N	32.8905°S
Area	469.6 km ²	54 km²
Population	901, 700 (Metro Area)	1, 055, 679 (Metro Area)
Annual Rainfall	8" (203 mm)	8.7" (223 mm)
Elevation	5,577 ft (1,700 m)	2,447 ft (746 m)
Climate	Arid	Arid
Sun	3,419 hours	2,871 hours





Albuquerque, New Mexico











The Oasis





The Oasis-Beginnings



The Oasis- City Identity



The Oasis- City Identity



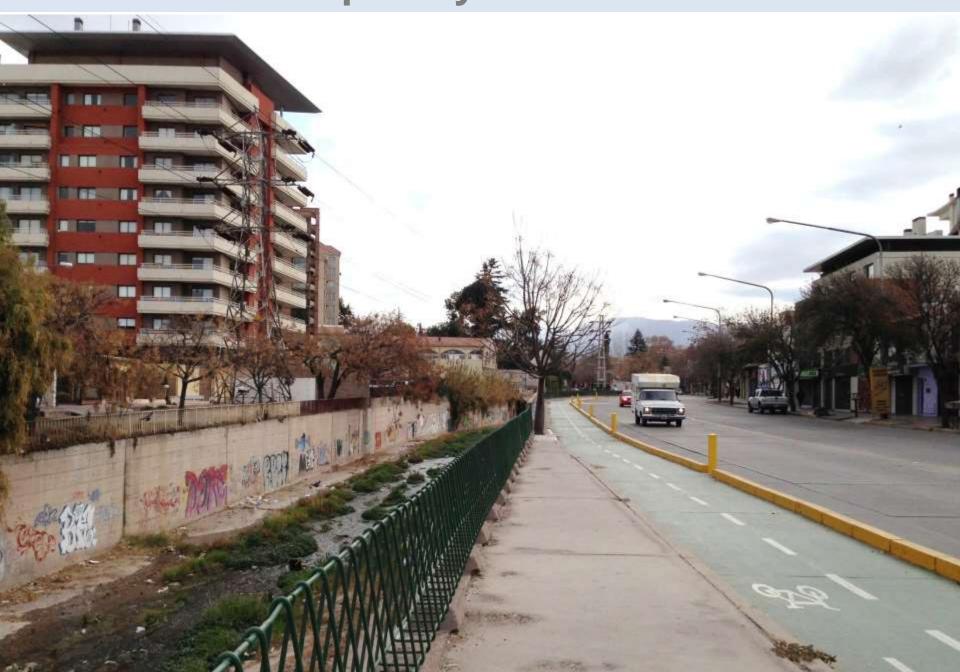




The Oasis- Beginnings

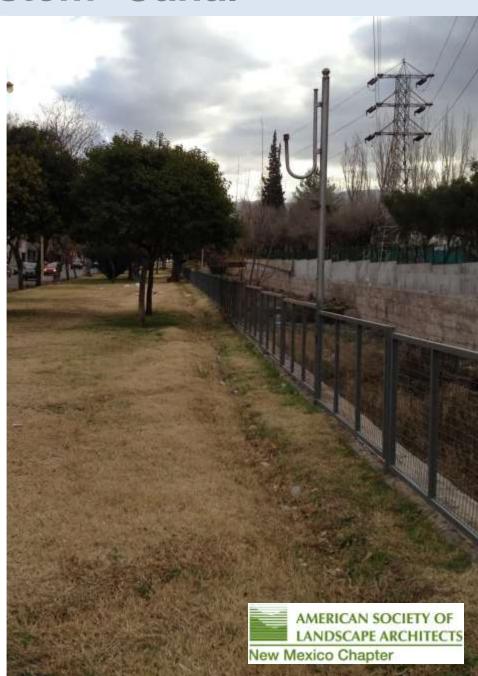


Acequia System- Canal



Acequia System- Canal





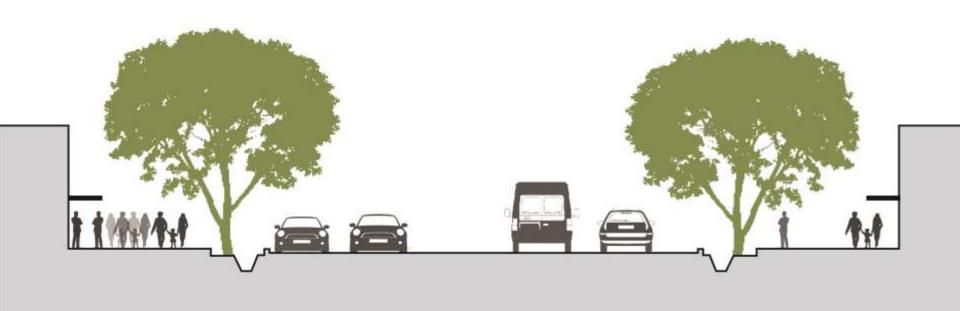
Acequia System- Madre



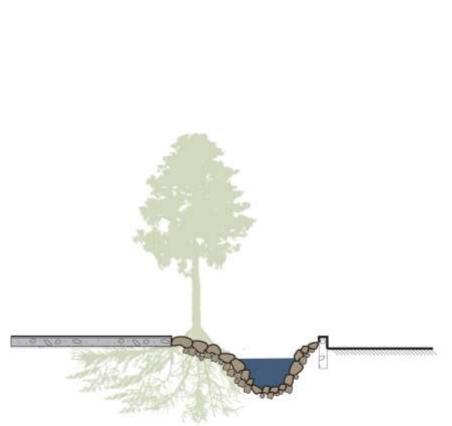




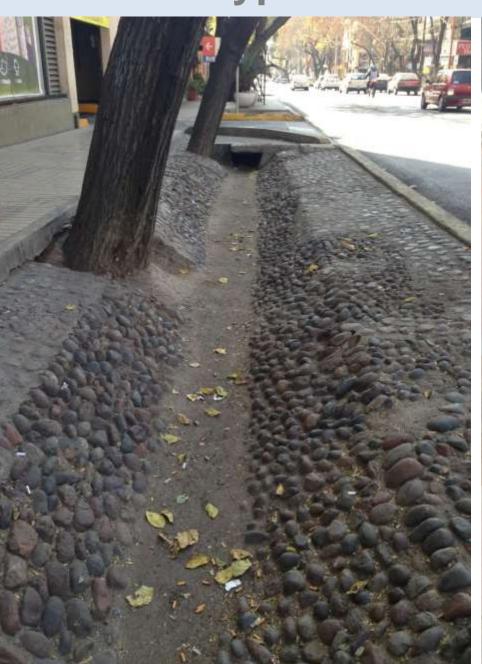
Acequia System- Typical Street Profile













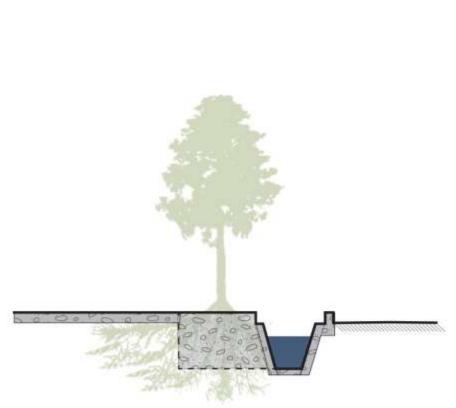








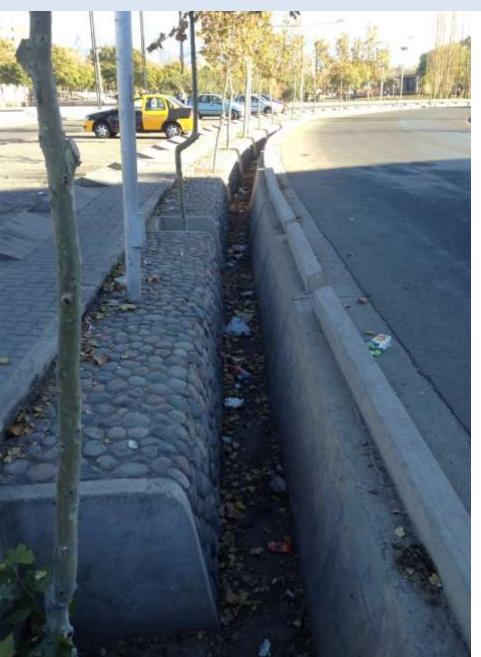
















Urban Acequias – Public Space





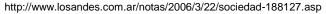
Urban Acequias – Public Space





Urban Acequias – Public Space





<u>Urban Acequias – Public Space</u>







Urban Acequias- Public Space





Sustainability Issues





Sustainability Issues - Identity





Sustainability Issues - Maintenence



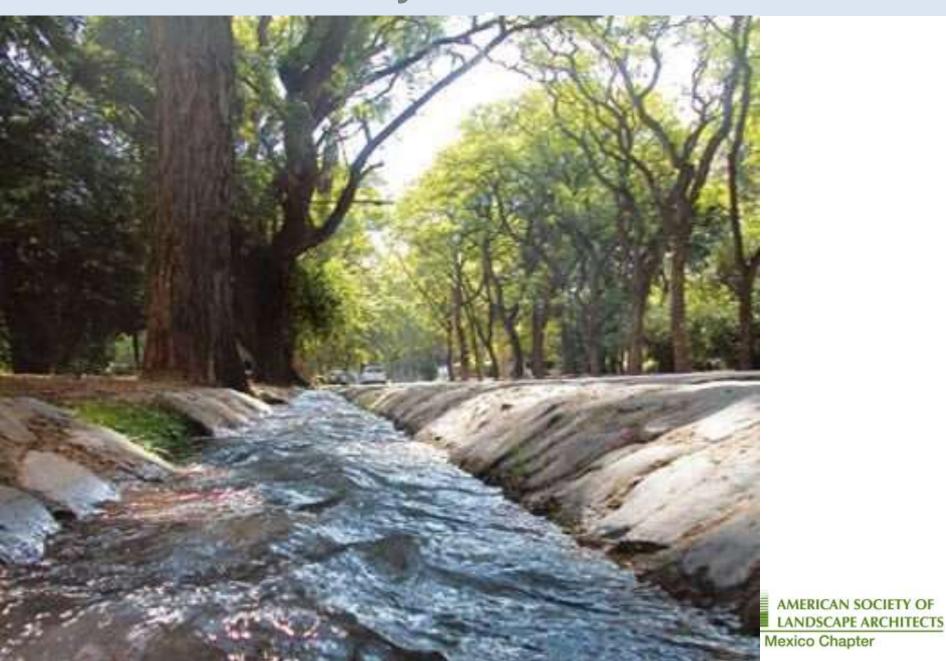


Sustainability Issues



AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS
Mexico Chapter

Sustainability Issues – Water Use



Urban Conditions

Today's Urban Environment Issues

- Heat Island Effect
- Lack of Nature
- Minimal Space
- Subjugated to the built environment



Is it a sustainable system?

Use this page for your slides

- IDENTITY AND INTANGIBLES VERSUS EFFICIENCY
- KEY QUESTIONS FOR THE FUTURE
- WATER ALLOCATION



"Be the change you wish to see in the world"

- Mahatma Ganghi





