Wynwood Woonerf Outreach Meeting

NW 3rd Avenue - Analysis Findings
Wynwood Woonerf | NW 3rd Ave Pilot

A dynamic new street design developed to convert a public throughfare into a pedestrian primary zone which acts as a public open space.
LOLA & Team conduct site analysis and assessment of resources.

LOLA & Team present site analysis, solicit input from the community.

LOLA & Team develop Design Concept, present progress to community.

LOLA & Team refine Concept, present progress to community.

LOLA & Team develop Schematic Design and Materials Palette, present progress to community.

LOLA & Team refine Schematic Design, submit to City.
Analysis and Findings | NW 3rd Avenue

i. Introductions
Jennifer Bolstad (Local Office Landscape and Urban Design)
Walter Meyer (Local Office Landscape and Urban Design)
Nina Johnson (Nina Johnson Gallery)
Tony Garcia (Street Plans Collaborative)
Patrick Shearer (E-Sciences)
Orestes Betancourt (Coastal Systems International)

ii. Analysis | Constraints and Opportunities
Art and Identity
Architectural Streetscape
Natural Systems
Infrastructure Systems

iii. Principles for a Wynwood Woonerf

iv. Questions/Comments

v. Questionnaire
ART ASSESSMENT
NINA JOHNSON
History of Public Art in Miami

Art Assessment

Christo and Jean-Claude
Surrounding Islands, 1982
Biscayne Bay, Miami, FL

Isamu Noguchi
Slide Mantra, 1991
Bayfront Park, Miami, FL

Beverly Buchanan
Blue Station Stones, 1986
Earlington Heights Metro Rail Station, Miami, FL
History of Public Art in Miami

Art Assessment

History of Public Art In Miami

Claes Oldenburg
Dropped Bowl With Scattered Slices and Peels, 1990
Government Center Metrorail Station, Miami, FL

Roy Lichenstein
Mermaid, 1979
Filmore Theater, Miami Beach, FL

Ed Ruscha
Words Without Thoughts Never Go to Heaven, 1989
Downtown Public Library, Miami, FL
Current Public Art in Miami

Art Assessment

Ugo Rondinone
Miami Mountain, 2016
Miami Beach, FL

Donal Judd
ICA Retrospective, 2018
Design District, Miami FL

Ai Weiwei
According to What, 2017
Perez Art Museum, Miami, FL
Current Public Art in Miami

Art Assessment

Sol Lewitt
Sculpture Garden, 2017
Design District, Miami, FL

Michelle Oka Doner
A Walk on the Beach, 2008
Miami International Airport, Miami, FL

Dan Graham
Morris, 2014
Lincoln Road Mall, Miami, FL
Current Public Art in Wynwood

Art Assessment
Future of Wynwood | Installations

Art Assessment

Camila Walala
Brooklyn Facade, 2018
Brooklyn, NY

Anish Kapoor
Cloud Gate, 2017
Commissioned for AT&T Millennium Park, Chicago, IL

Isa Genzken
Rose III, 2016
Zucatti Park, New York
Future of Wynwood | Shading

Art Assessment

Michael Fores
Pleated Inflations, 2015
Commissioned by Lycée Christian Bourqouin, Argelles, FR

Olaf Breuning
Clouds, 2014
Commissioned by Public Art Fund, New York, NY

ETH Zurich + Urban Think Tank
Xarranca Pavillion, 2017
Organized by EMBT, Barcelona, SP
Future of Wynwood | Seating

Art Assessment

Snarkitecture
Playhouse, 2017
Commissioned by Exhibit Columbus, Columbus, IN

Jurgen Mayer H.
XXX Times Square With Love
Commissioned by Times Square Alliance, New York, NY

Future of Wynwood | Seating

Art Assessment

Snarkitecture
Playhouse, 2017
Commissioned by Exhibit Columbus, Columbus, IN

Jonathan Nesci
The Nesci Dome, 2017
Commissioned for the Ace Hotel, Chicago, IL
ARCHITECTURAL STREETSCAPE
THE STREET PLANS COLLABORATIVE
WYNWOOD WOONERF
NW 3RD AVE
Typical Street Section

6’ Sidewalk
9’ Parking lane
10’ Drive lane
10’ Drive lane
9’ Parking lane
15’ Sidewalk

38’
WYNWOOD WOONERF
NW 3RD AVE

Commercial
Industrial
Residential
Institutional
Office
WYNWOOD WOONERF
NW 3RD AVE

Existing AM Peak Traffic Volumes* (8:00AM - 9:00AM)

Existing PM Peak Traffic Volumes* (4:30PM - 5:30PM)

*Data from BID Traffic Study - Caltran Engineering Group. 2016
NW 3rd Avenue Intersections

Stop Signs
NW 3rd Avenue Intersections

Stop Signs
Available Semi-Public Spaces

1. NW 29TH STREET
2. NW 28TH STREET
3. NW 27TH STREET
4. NW 26TH STREET
5. NW 25TH STREET
WYNWOOD WOONERF
NW 3RD AVE

Available Semi-Public Spaces

NW 29TH STREET

1

2

NW 28TH STREET

3

4

NW 27TH STREET

5

6

NW 26TH STREET

7

8

NW 25TH STREET

9

10

11

12

Image capture: Apr 2018 © 2018 Google
Street View - Apr 2018
Miami, Florida
Google, Inc.

1

2

3

19 OCTOBER 2018
Available Semi-Public Spaces

NW 29TH STREET

NW 28TH STREET

NW 27TH STREET

NW 26TH STREET

NW 25TH STREET

Available Semi-Public Spaces

NW 29TH STREET
1
2
3
4
5
6
7
8
9
10
11
12

NW 28TH STREET

NW 27TH STREET

NW 26TH STREET

NW 25TH STREET

NATURAL SYSTEMS

E-Sciences
ENVIRONMENTAL SITE ANALYSIS, ENERGY AND VULNERABILITY ASSESSMENTS

Wynwood NW 3rd Avenue Woonerf
October 19, 2018
City of Miami, Florida
OVERVIEW

• Environmental Site Analysis

• Energy Assessment
  • Stormwater Considerations
  • Green Infrastructure
  • Urban Heat Island

• Vulnerabilities Assessment
ENVIRONMENTAL SITE ANALYSIS

- Existing Features
- Topography
- Soils
- Groundwater
- Existing Drainage
- Historical Maps, Aerials and Sanborn Maps
- Brownfields
- Contaminated Sites
- Consumptive Water Use Permits
ENVIRONMENTAL SITE ANALYSIS
ENERGY ASSESSMENT

• Stormwater Considerations
• Green Infrastructure
• Urban Heat Island Effect affects:
  • Human Health
  • Increased energy demand (can lead to electrical blackouts)
  • Water supply
  • Air pollution
  • Air temperature differences
  • Surface temperature differences
  • Stormwater runoff temperature
VULNERABILITY ASSESSMENT

- Sea Level Rise
- Groundwater Flooding
- Drought
- Extreme Weather Events
- Increased Precipitation
- Permeable Pavement Assessment
- Urban Forestry

RECOMMENDED ADAPTATION MEASURES TO FACTOR THIS INTO DESIGN

SOURCE: CITY OF MIAMI BEACH, URBAN LAND INSTITUTE
GREEN INFRASTRUCTURE

- Downspout Disconnection
- Rainwater Harvesting
- Rain Gardens
- Planter Boxes
- Bioswales
- Permeable Pavements
- Green parking
- Green Streets and Alleys (Woonerf)
- Green Roofs
- Urban Tree Canopy
- Tree planter Structural Soil retrofits
Green Infrastructure provides Resilience for:

- Reduction of temperatures & Urban Heat Island
- Water quality treatment of runoff
- Reduced vulnerability of Drainage systems
- Landscape Irrigation
- Backup to pump system stormwater network
- Protection of drinking water against salt water intrusion
- Human Health and Air Quality
PERMEABLE PAVEMENT WITH UNDERGROUND EXFILTRATION
INNOVATIVE STORMWATER AS ART

Vine Street Beckoning Cistern, Seattle, Washington

Photo by Sam Tenney/DJC, NE Portland Brewery rooftop runoff to bioswale

Photo: CPL Inc.
Questions?

Patrick Shearer, PE

Project Engineer

E Sciences Inc.

pshearer@esciencesinc.com
INFRASTRUCTURE SYSTEMS

LOLA and Costal Systems International
Sloughs Elevation

DATUM: NAD 1983 HARN
SOURCE: Miami-Dade County Information Technology Department (ITD), 2015
Sloughs Hydrology

- Biscayne Bay
- Miami River
- Little River Canal

DATUM: NAD 1983 HARN
SOURCE: Miami-Dade County Information Technology Department (ITD), 2015
Biscayne ‘Island’ Elevation

ELEVATION ANALYSIS

- **Low Elevation** (+0)
- **High Elevation** (+17)

**Primary Ridgeline**

**Settings**
- **Low Elevation** (0-6)
- **Mid Elevation** (6-12)
- **High Elevation** (+12)

**Datum:** NAD 1983 HARN
**Source:** Miami-Dade County Information Technology Department (ITD), 2015

**Affected Block**
Wynwood Neighborhood Elevation

ELEVATION ANALYSIS

- Low Elevation (0-6)
- Mid Elevation (6-12)
- High Elevation (+12)

FEMA Flood Zones

- VE: 100 YR FLOODING WITH ADDITIONAL STORM WAVE HAZARDS
- AE: 100 YR FLOODING
- AH: 100 YR SHALLOW FLOODING WITH CONSTANT SURFACE WATER ELEVATION (PONDING) OF 1-3' MINIMAL FLOOD RISK

NRD-1 Boundary

Wynwood Neighborhood Elevation

Datum: NAD 1983 HARN
Source: Miami-Dade County Information Technology Department (ITD), 2015
Site Hydrology

DATUM: NAD 1983 HARN
SOURCE: Miami-Dade County Information Technology Department (ITD), 2015
Hydrology Management

Existing Conditions

Design Potential

A mature tree can transpire as much as 109 gallons/day (USGS)
Accessibility Between Public/Private Realm

Existing Conditions

Design Potential
Principles for a Wynwood Woonerf
1. Create a commons that seamlessly connects the public and private realms

a. Prioritize pedestrian access and safety while providing adequate service, automobile, and bicycle mobility

b. Partner with the BID and private owners to achieve maximum accessibility
2. Express and enhance the identity of Wynwood in the streetscape

a. The experiences of Wynwood are dynamic and ephemeral. The woonerf design character should be 4-dimensional, embracing change.

b. Art activities in Wynwood have shifted from production to consumption. The Woonerf and other public spaces provide opportunities to re-introduce production through the engagement of artists in the designed elements.
3. Ensure the built environment contributes to the health of the natural environment and the social and economic resilience of the community

   a. Treat water as an infrastructure of the common
   
   b. Leverage district-wide opportunities for energy production
Principles for a Wynwood Woonerf

1. Create a commons that seamlessly connects the public and private realms

2. Express and enhance the identity of Wynwood in the streetscape

3. Ensure the built environment contributes to the health of the natural environment and the social and economic resilience of the community
Thank you!