



# B-Tactical Lake Ridge

South Florida Safe Streets Summit, 2/2/2023

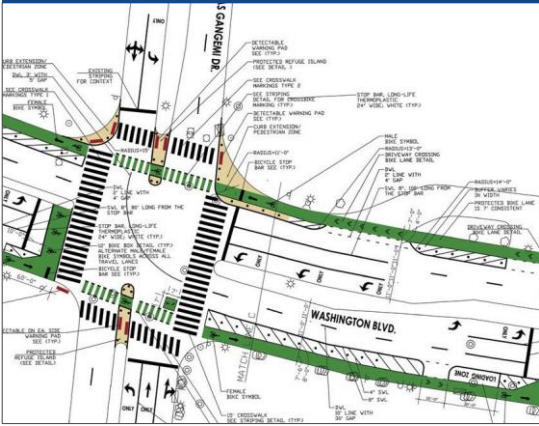
Tony Garcia, Principal, Street Plans

# We Create Better Streets, Better Places

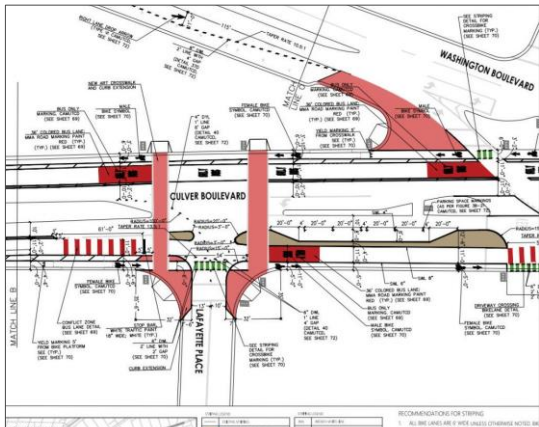
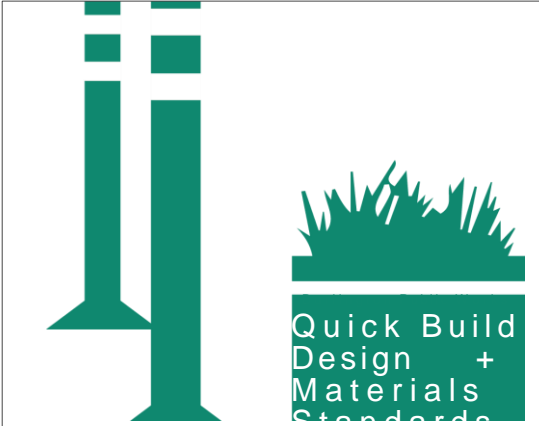
## Planning

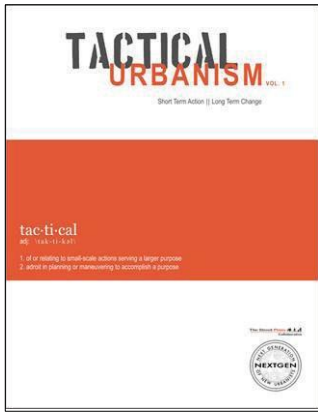


## Design

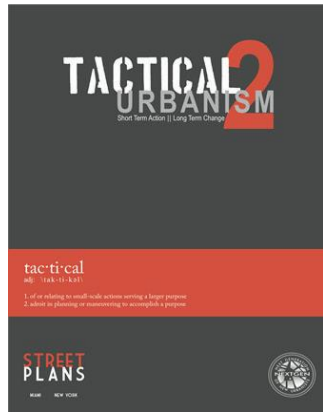


## Implementation

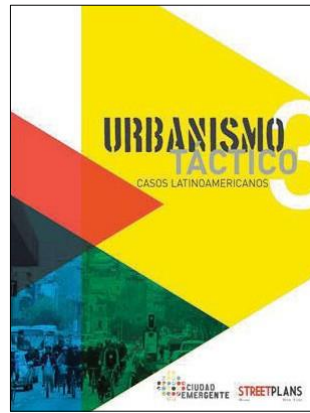




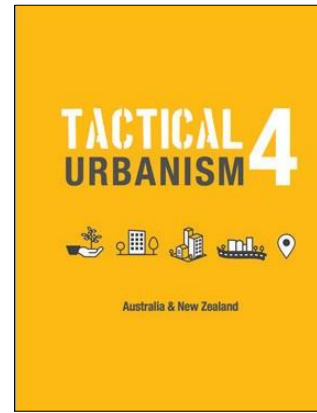
North America (2011)



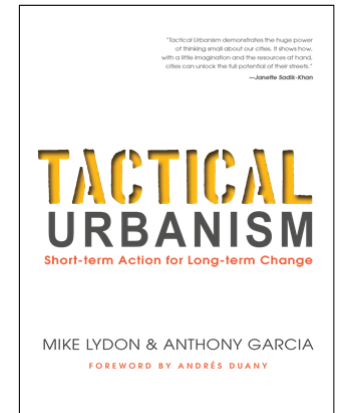
North America (2012)



South America (2013)



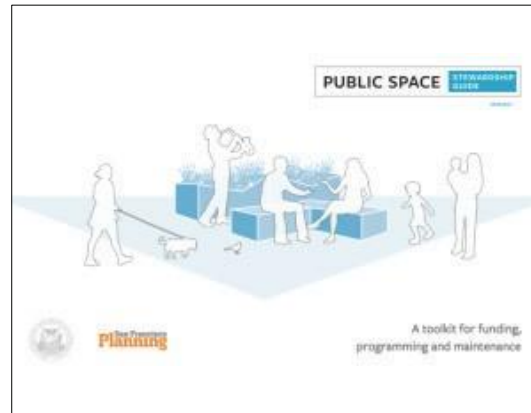
Australia / NZ (2014)



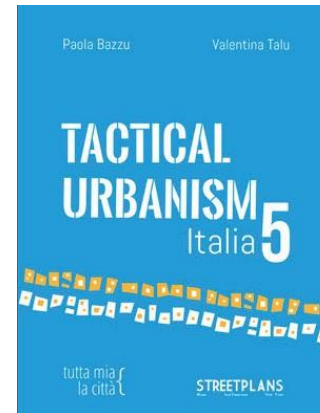
Island Press (2015)



North America (2016)



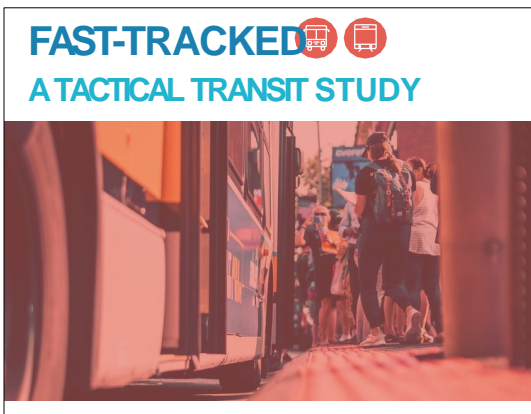
North America (2016)



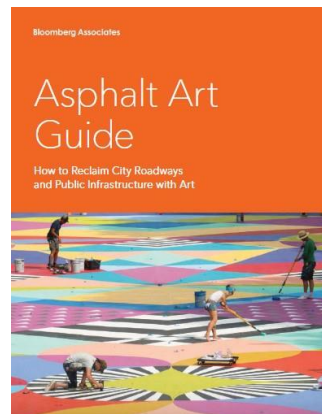
Italy (2017)



Russia (2019)



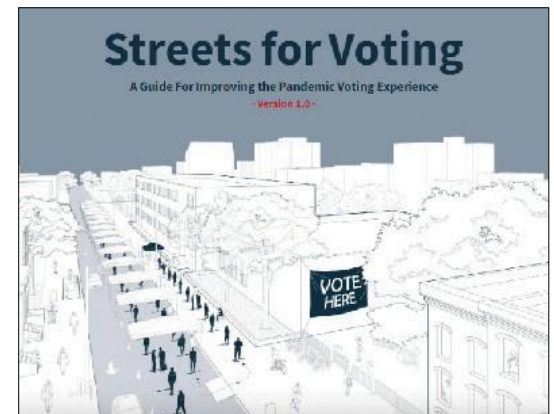
North America (2019)



North America (2019)



North America (2020)



North America (2020)

# Visualizing Safe Streets



# Awesome! Now what...?



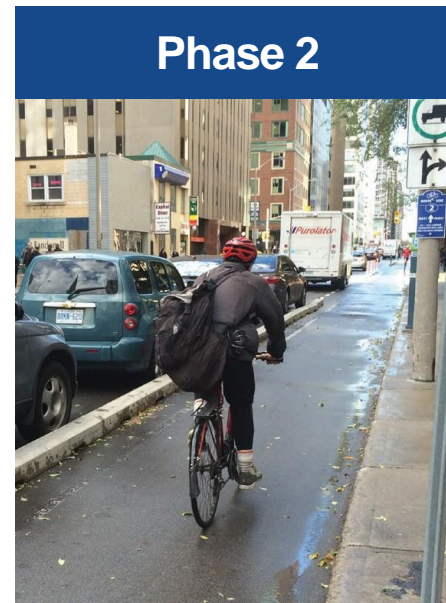
# Breaking Down Project Delivery



1day - 1month  
\$



1month - 1year  
\$\$



1year - 5 years  
\$\$\$



5 years - 50 years  
\$\$\$\$

**Timeline:** Faster than capital projects; 2 months - 2 years.

**Budget:** \$3k - \$300k

**Process:** Project is the study! Participatory, data-driven, and iterative approach to project delivery. Bridges gap between master planning and long-term capital projects.

# Why Quick Build?

- 1 Temporary nature allows for testing and evaluating ideas.
- 2 Expedites delivery of public benefits at a low cost.
- 3 Based on existing master plans, action-focused.
- 4 Acts as public engagement tool.

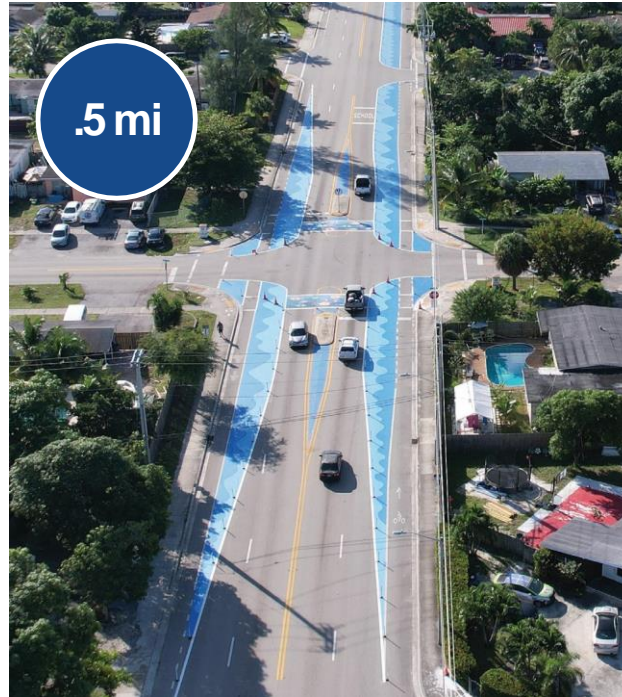


# TU Across South Florida



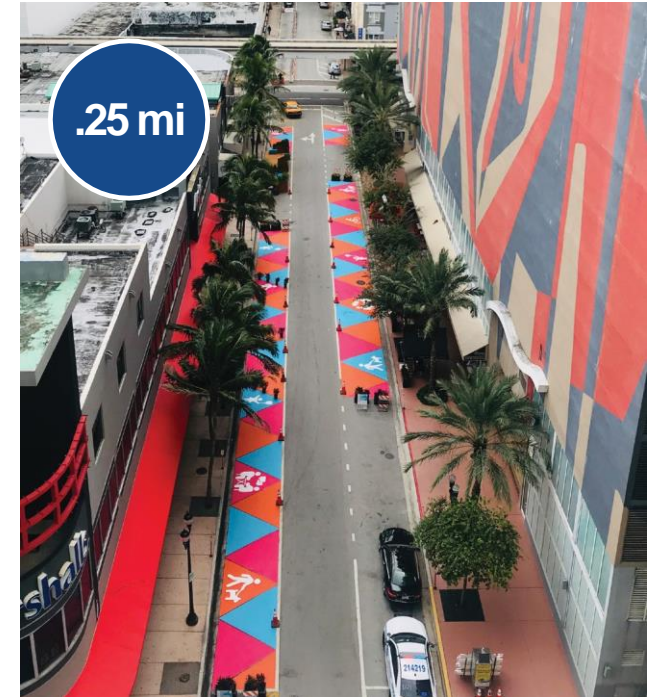
FT. LAUDERDALE, FL

- Pedestrian median
- crosswalks
- curb extensions
- bike lane improvements
- lane reduction



DEERFIELD BEACH, FL

- protected bike lanes
- art crosswalks
- lane reduction
- curb extensions



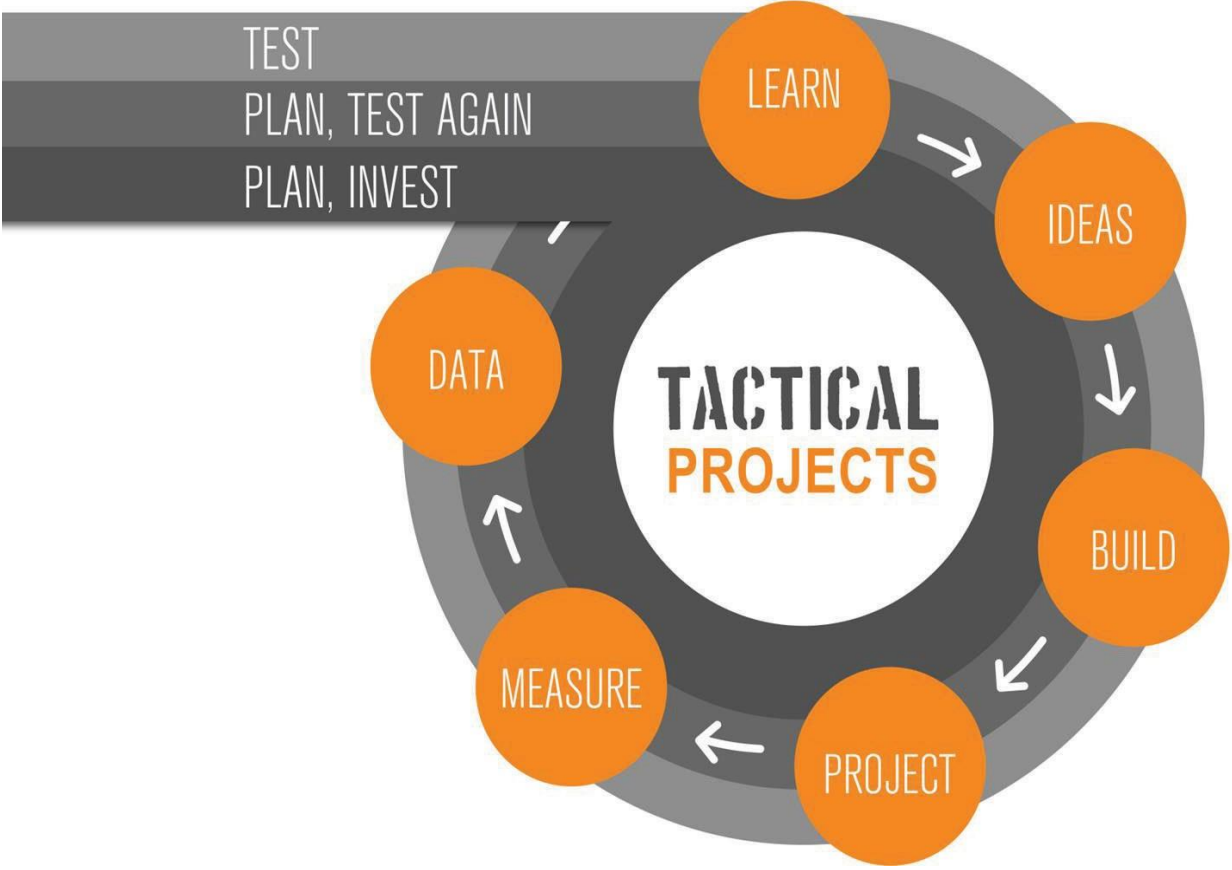
MIAMI, FL

- Sidewalk expansion
- parklet
- Part of county program



# Test Before You Invest!

BUILD, MEASURE, LEARN



# Case Study: 15 Ave, Ft. Lauderdale, FL



# Project Basics

- 1 Btactical Program part of Broward MPO.
- 2 Core project team included community partners (Lake Ridge), not just technical experts.
- 3 Had political support from commission/mayor.
- 4 5 Month timeline from NTP to final construction; \$30k budget



# Process Schedule

1

## Conceptual Design



- Site selection/ vetting
- Outreach Plan
- Field survey
- Conceptual design

2

## Design Development



- Evaluation/ Mitigation Plan
- Material Budget
- Design Development
- Outreach

3

## Build Prep



- Execute “before” data collection
- Final permit docs
- Order materials
- Implementation plan
- Volunteer Management

4

## The Build!

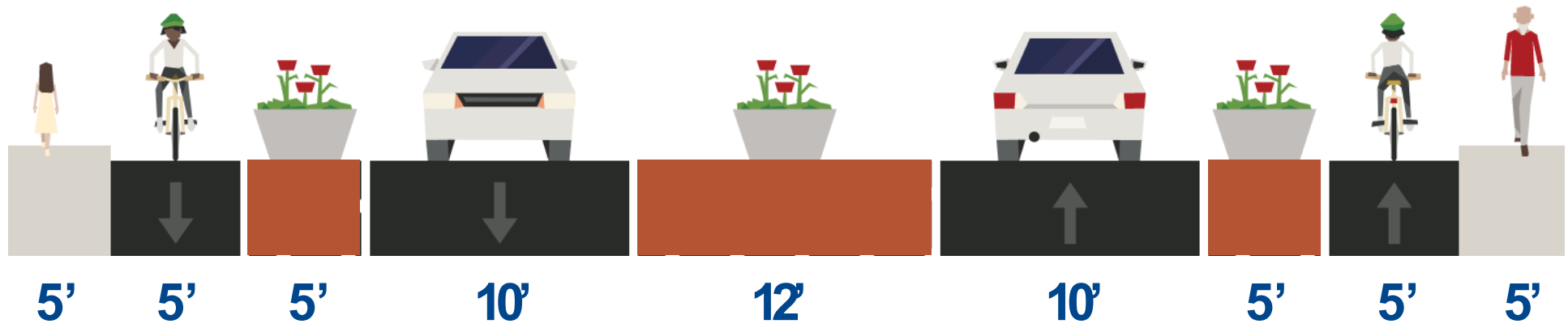
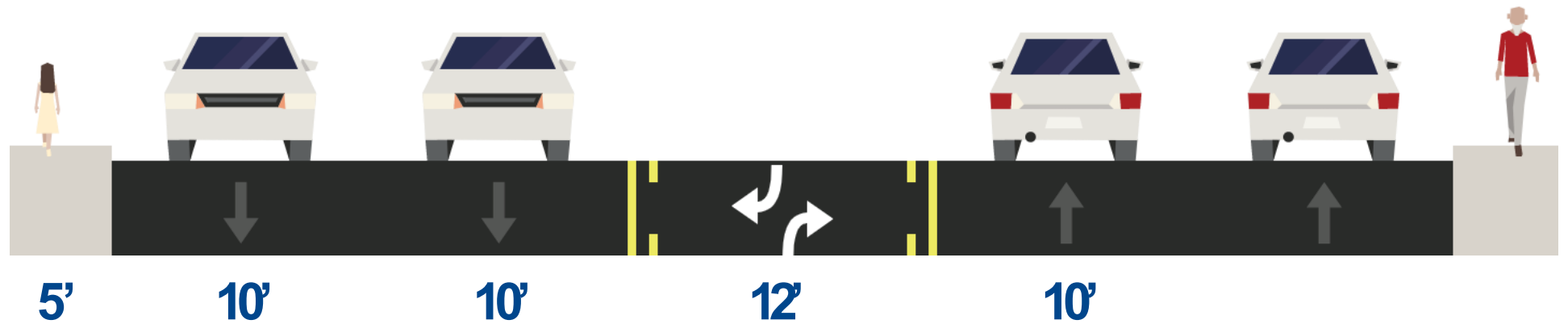


- The Build!
- Execute ‘after’ data collection + analysis
- Make changes if needed
- Monitor
- Outreach debrief



# Conceptual Design

## Street Section Conditions Prior to Striping

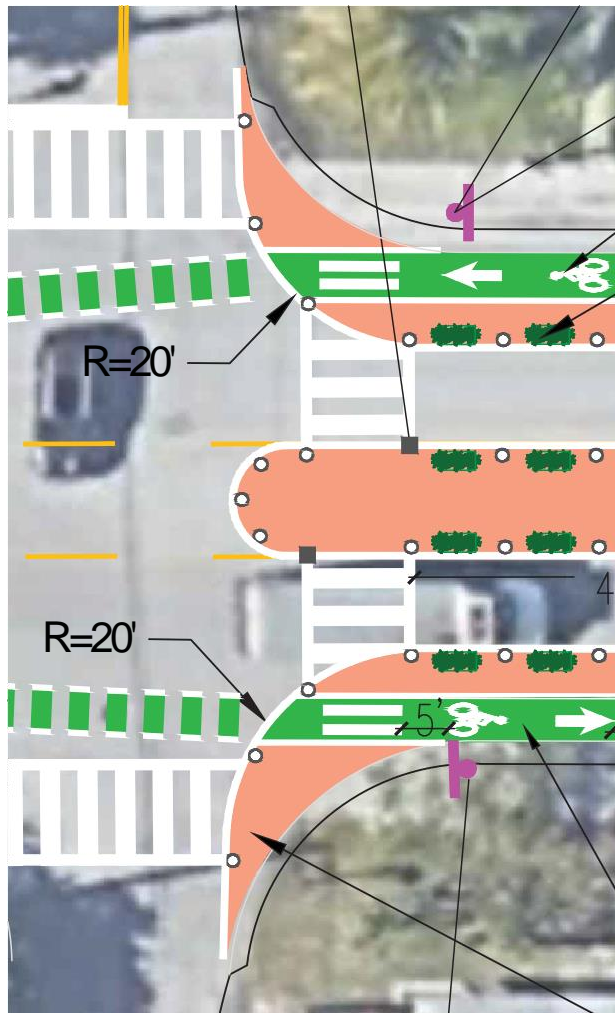


## Proposed Tactical Improvements

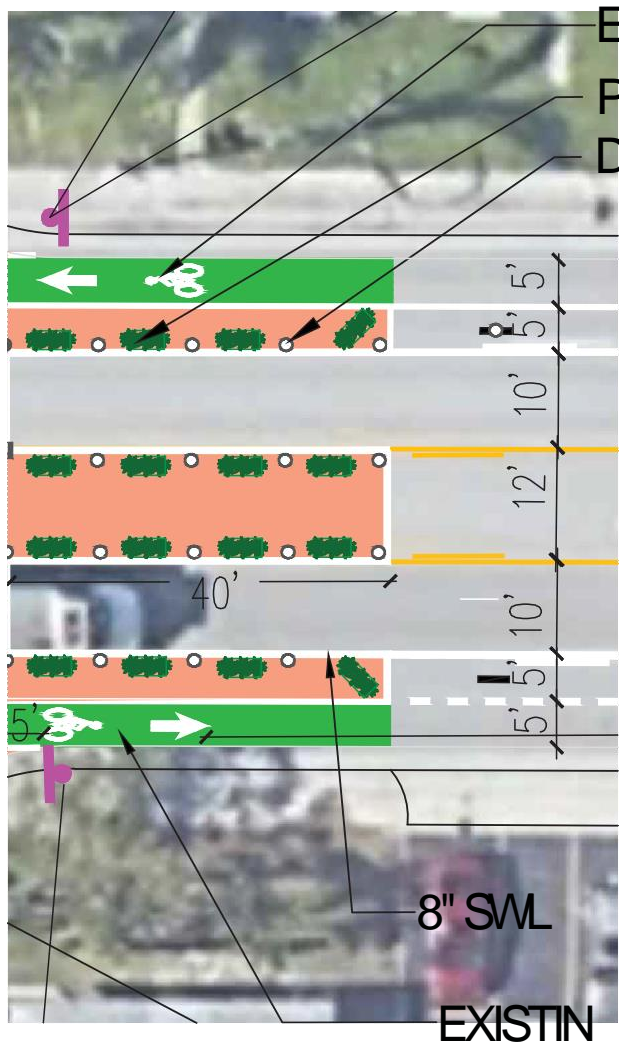
# Conceptual Design



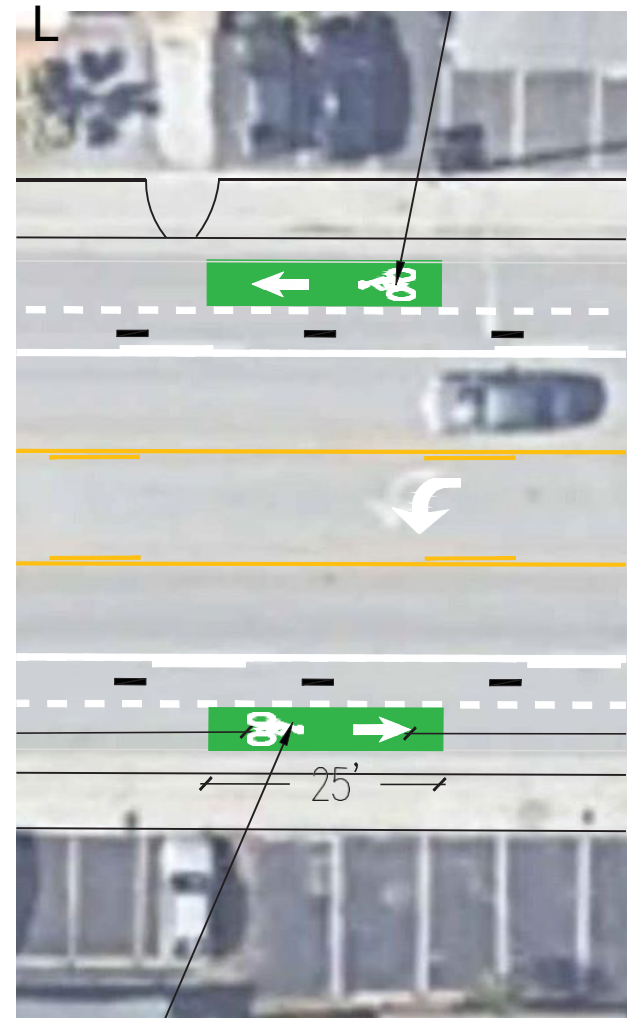
## Curb Extensions / Crosswalk



## Median



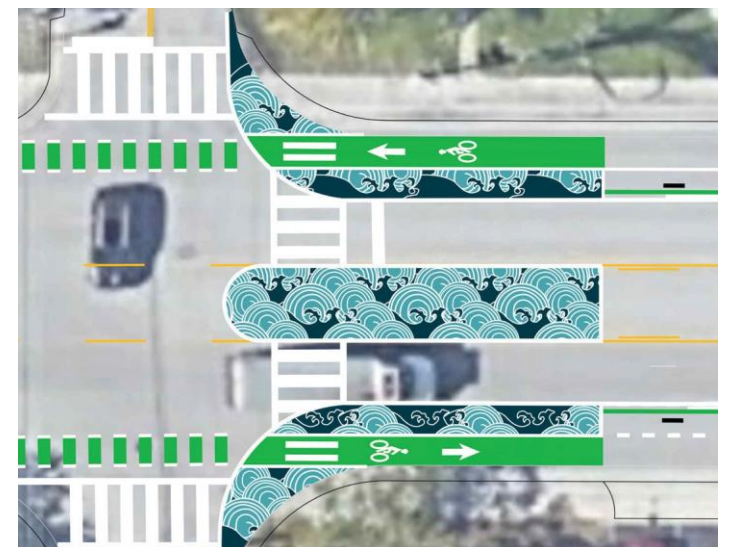
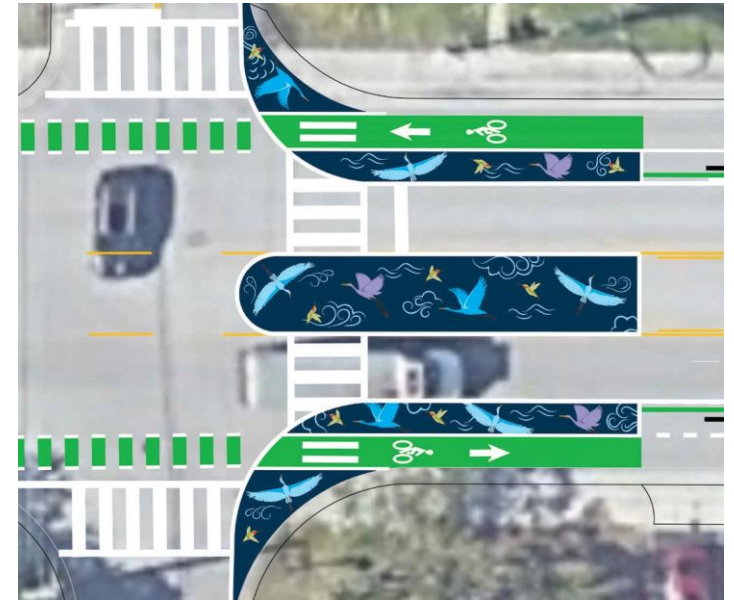
## Bike Lane Improvements



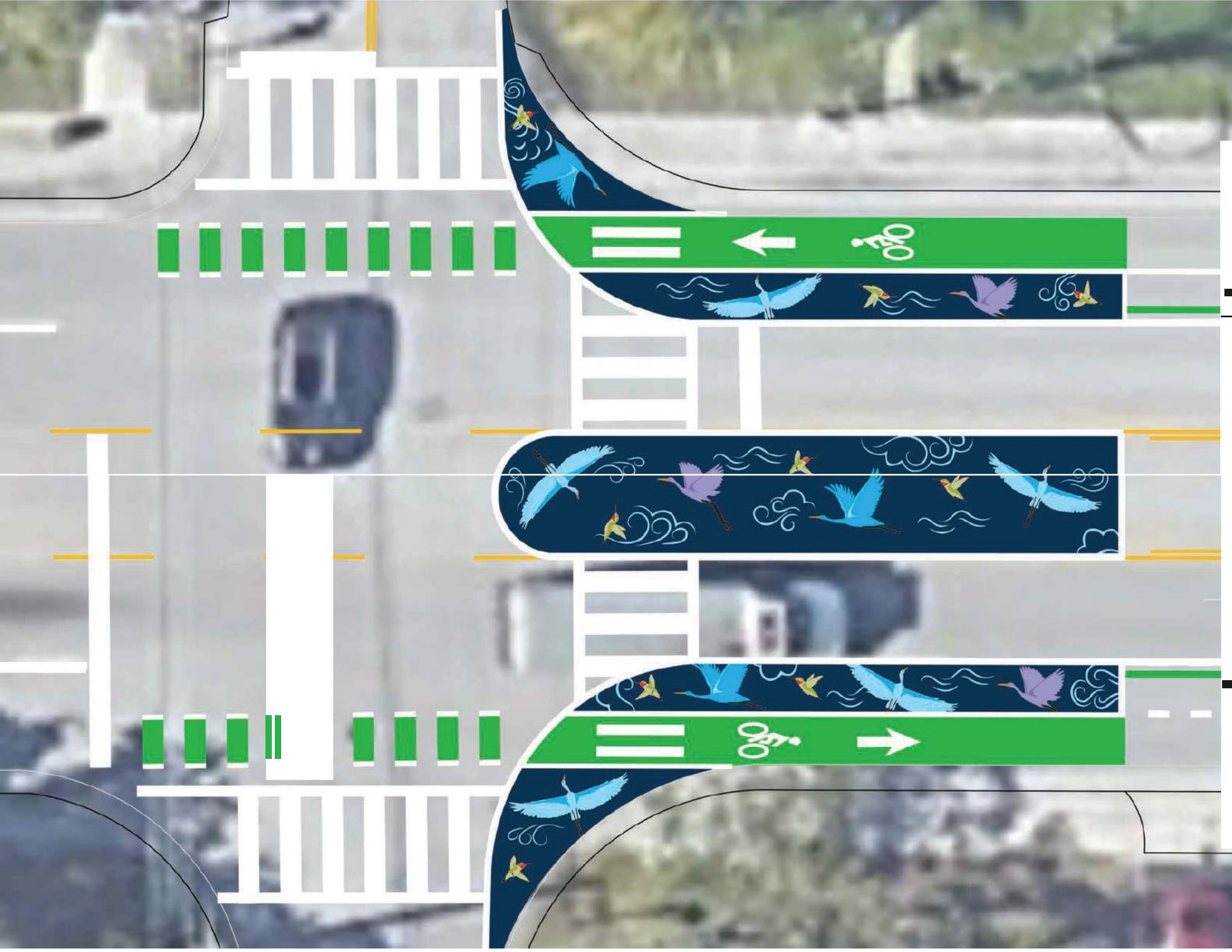
# Asphalt Engagement



- 1 Thematic / visual preference surveys
- 2 3 Designs Created; Community Voted on Birds!
- 3 Use Asphalt Art as a way of strengthening identity + wayfinding
- 4 When using AA on the street, avoid words, colors that conflict with road markings, and symbols that conflict with road markings

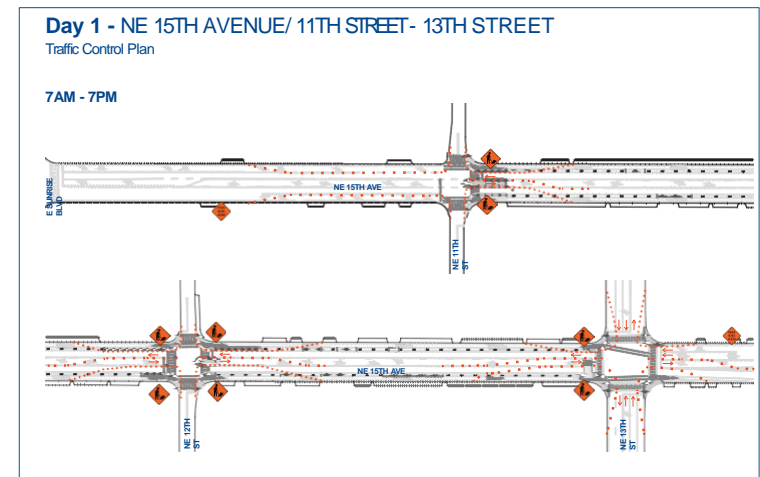
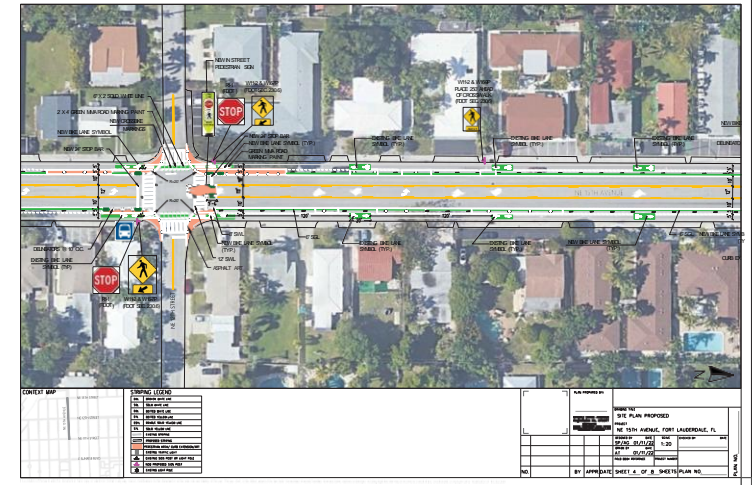






# Build Plan(s)

- 1 Site Plan / Permit set
- 2 Materials Staging
- 3 Project Schedule
- 4 Installation Plan
- 5 Volunteer Management



# Permit Process

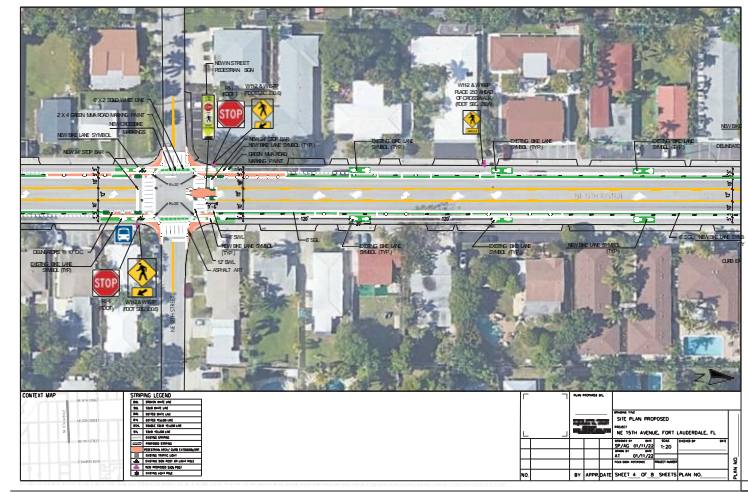
1 Create process that works for you.

2 Permit Package May Include:

- Design Exceptions;
- Traffic Control Plan;
- Implementation Plan;
- Evaluation / monitoring

3 Limited prior analysis; project is the study.

4 Document everything!



# Implementation Plan

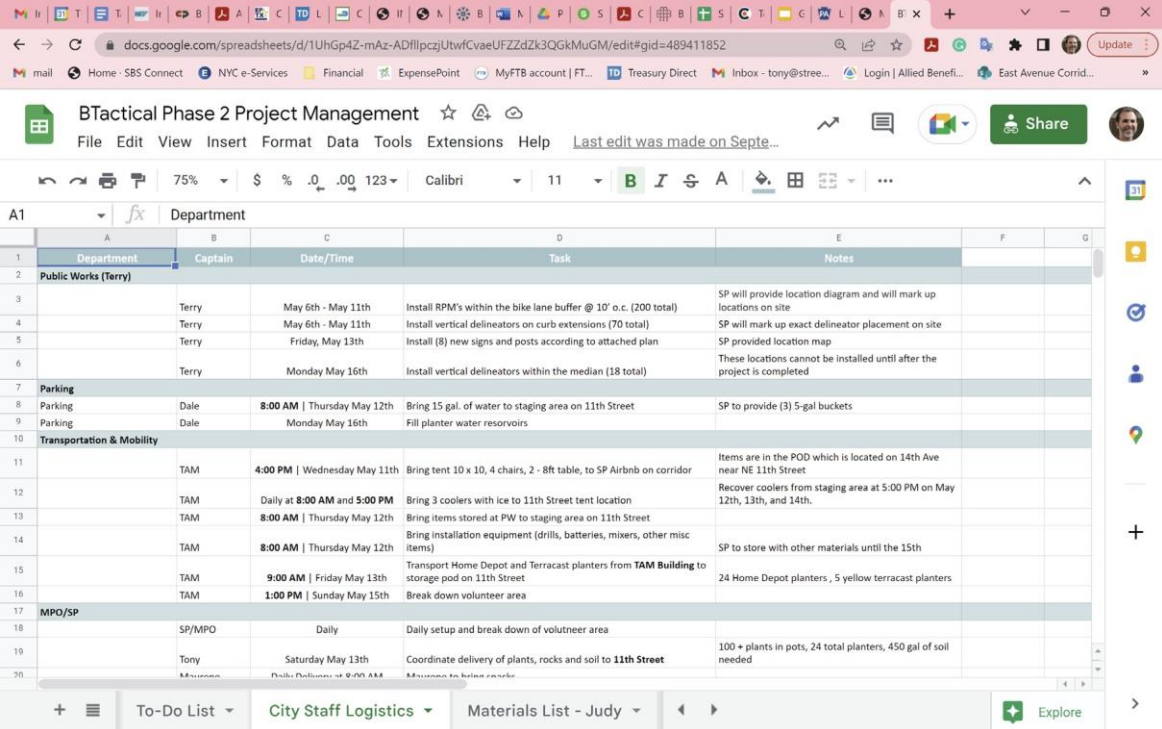
Expect to be heavily involved in execution.

Schedule broken out by hour + responsible party

Everything documented in project management spreadsheet + minutes

Build may feel chaotic but is highly choreographed.

Outlines roles + responsibilities



The screenshot shows a Google Sheets spreadsheet titled "BTactical Phase 2 Project Management". The spreadsheet is organized into columns: Department, Captain, Date/Time, Task, and Notes. The data is grouped into sections: Public Works (Terry), Parking, Transportation & Mobility, and MPO/SP. The tasks include installing RPMs, vertical delineators, bringing water to staging areas, filling planter water reservoirs, bringing tents and coolers, installing equipment, and coordinating delivery of plants and rocks.

Department	Captain	Date/Time	Task	Notes
<b>Public Works (Terry)</b>				
	Terry	May 6th - May 11th	Install RPM's within the bike lane buffer @ 10' o.c. (200 total)	SP will provide location diagram and will mark up locations on site
	Terry	May 6th - May 11th	Install vertical delineators on curb extensions (70 total)	SP will mark up exact delineator placement on site
	Terry	Friday, May 13th	Install (8) new signs and posts according to attached plan	SP provided location map
	Terry	Monday May 16th	Install vertical delineators within the median (18 total)	These locations cannot be installed until after the project is completed
<b>Parking</b>				
Parking	Dale	8:00 AM   Thursday May 12th	Bring 15 gal. of water to staging area on 11th Street	SP to provide (3) 5-gal buckets
Parking	Dale	Monday May 16th	Fill planter water reservoirs	
<b>Transportation &amp; Mobility</b>				
	TAM	4:00 PM   Wednesday May 11th	Bring tent 10 x 10, 4 chairs, 2 - 8ft table, to SP Airbnb on corridor	Items are in the POD which is located on 14th Ave near NE 11th Street
	TAM	Daily at 8:00 AM and 5:00 PM	Bring 3 coolers with ice to 11th Street tent location	Recover coolers from staging area at 5:00 PM on May 12th, 13th, and 14th.
	TAM	8:00 AM   Thursday May 12th	Bring items stored at PW to staging area on 11th Street	
	TAM	8:00 AM   Thursday May 12th	Bring installation equipment (drills, batteries, mixers, other misc items)	SP to store with other materials until the 15th
	TAM	9:00 AM   Friday May 13th	Transport Home Depot and Terracast planters from TAM Building to storage pod on 11th Street	24 Home Depot planters, 5 yellow terracast planters
	TAM	1:00 PM   Sunday May 15th	Break down volunteer area	
<b>MPO/SP</b>				
	SP/MPO	Daily	Daily setup and break down of volunteer area	
	Tony	Saturday May 13th	Coordinate delivery of plants, rocks and soil to 11th Street	100+ plants in pots, 24 total planters, 450 gal of soil needed

# Volunteer Management

- The build is an extension of public engagement.
- Measuring/marketing done by SP. All work done under SP supervision.
- Volunteers: paint, plant, move, clean.
- Everyone signs a waiver and wears bright vests.
- Everyone works behind traffic control.
- Everyone has fun!

Date (mm/dd/yyyy)	Location	Time (EDT)	Available Slot	 Calendar View
05/11/2022 (Wed.)	NE 15th Ave and NE 11th St	8:00am - 12:00pm	General Build Activities (painting, planting, etc.) (25)	<a href="#">Sign Up</a> ■
		1:00pm - 5:00pm	General Build Activities (painting, planting, etc.) (25)	<a href="#">Sign Up</a> ■
05/12/2022 (Thu.)	NE 15th Ave and NE 13th St	8:00am - 12:00pm	General Build Activities (painting, planting, etc.) (25)	<a href="#">Sign Up</a> ■
		1:00pm - 5:00pm	General Build Activities (painting, planting, etc.) (25)	<a href="#">Sign Up</a> ■
05/13/2022 (Fri.)	NE 15th Ave and NE 12th St	8:00am - 12:00pm	General Build Activities (painting, planting, etc.) (25)	<a href="#">Sign Up</a> ■
		1:00pm - 5:00pm	General Build Activities (painting, planting, etc.) (25)	<a href="#">Sign Up</a> ■
05/14/2022 (Sat.)	NE 15th Ave and NE 11th St	8:00am - 12:00pm	General Build Activities (painting, planting, etc.) (30)	10 of 30 slots filled <a href="#">Sign Up</a> ■

**Check-In**



**Station Set Up**



**Painting**



**Chalk Lining/Measuring**



**Planting**



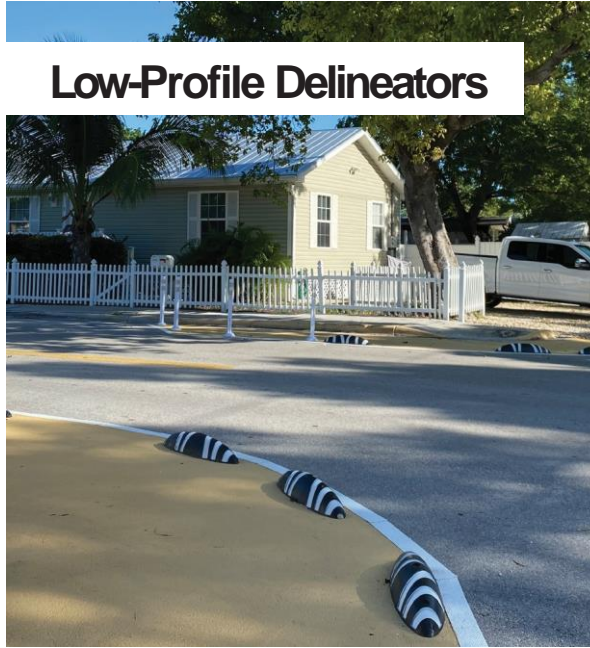
**Painting**



**Delineator Posts**



**Low-Profile Delineators**



**Plastic Planters**



**Curb Stops**



**Durable Paint**



**Metal Planters**



# Use the Build to Vet Design



- Meet with Fire Department, transit, crossing guards.
- Not all designs will comply with you standards. The purpose of doing the pilot is to vet ideas and see how they work!



# Evaluation Planning

- Bike/ped safety

- Volumes (cars, bikes, peds)

- Cut through traffic

- Before/After speed signs

- Bike Counts: 45 --> 121!

- Critical to create an eval plan to document what and how data will be collected



# Evaluation Results



CITY OF FORT LAUDERDALE

## NE 15th Avenue Traffic Calming Improvements

Between E. Sunrise Boulevard and NE 13th Street

### January 2022

Posted



Northbound



Southbound

Vehicles Per Day	2,958	3,358
85th Percentile	40 mph	34 mph
Average Speed	27 mph	21 mph
Percent Over Average Speed	60%	14%

### April 2022

Posted



Northbound

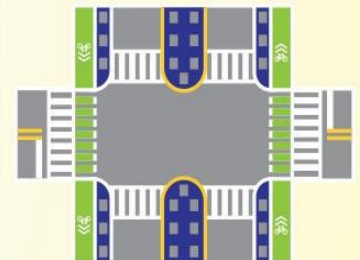


Southbound

Vehicles Per Day	3,064	3,532
85th Percentile	39 mph	32 mph
Average Speed	26 mph	20 mph
Percent Over Average Speed	55%	1%

### May 2022

Posted



Northbound



Southbound

Vehicles Per Day	2,934	3,391
85th Percentile	35 mph	31 mph
Average Speed	22 mph	19 mph
Percent Over Average Speed	1%	.05%

# Final Analysis

- 1 Use data to inform final analysis. Documenting process, successes, lessons learned, evaluation results etc.
- 2 What happens next? How to make project 'permanent'. Long term vision?
- 3 What adjustments need to be made moving forward? Planters? paint?















# Advice for Tacticians

- 1 You don't always need to do a traffic study. Use project as the study.
- 2 You don't have a permit process for this. Adapt the one you have to work for you.
- 3 Need to be flexible during implementation. You will need to make adjustments.
- 4 Have Fun!





# Thank you!

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