

Complete Streets – Some Assembly Required



So you have a plan...now what?



Main Street/US 64 Downtown Streetscape - COMPLETED



El Paso Avenue Complete Street – COMPLETED

Build it? Not so fast...



Pitfalls AFTER Planning: The Usual Suspects

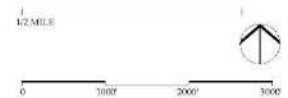
- Doesn't conform to local/state standards
- Community resistance
- Agency resistance (especially with respect to motorized traffic performance)
- Constructability issues
- Funding constraints (including cost escalation)

Memphis, TN – Greenline, Germantown Parkway Crossing



LEGEND

- PROPOSED GREENLINE
- EXISTING GREENLINE
- GREENLINE - BRIDGE / TRESTLE
- STREET CROSSING - AT GRADE
- GREENLINE ALTERNATE ROUTE
- PROPOSED PEDESTRIAN ACCESS
- SHARED PARKING
- STREAM CHANNEL



SHELBY FARMS GREENLINE EXTENSION

SHELBY COUNTY GOVERNMENT | SHELBY FARMS PARK CONSERVANCY

TETRA TECH | RITCHIE SMITH ASSOCIATES | TOLES AND ASSOCIATES | FUSS & O'NEILL | PSI | APRIL 16, 2012

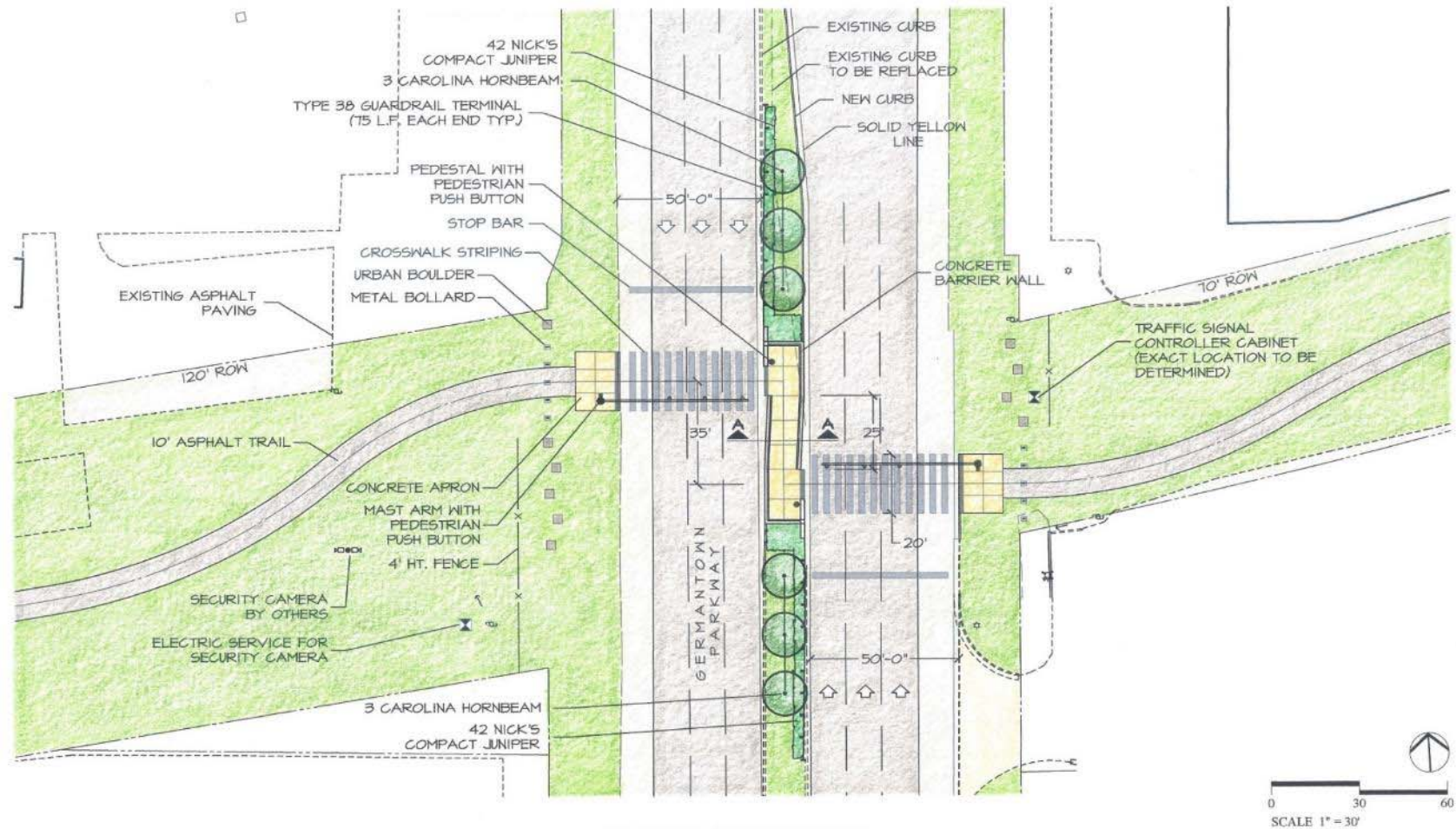
Memphis, TN – Greenline, Germantown Parkway Crossing





Eastern Extension of the Shelby Farms Greenline – Germantown Parkway Crossing
Six lane arterial, state road, 70,000 ADT

No Road too Big...



GERMANTOWN PARKWAY CROSSING

SHELBY FARMS GREENLINE - EAST EXTENSION

TETRA TECH / RITCHIE SMITH ASSOCIATES JULY 2, 2013 SCALE: 1" = 30'









Memphis, TN – The Hampline



Jumpstarted with Tactical Urbanism



<http://vimeo.com/22106488>

Arts District – Broad Avenue



Tillman Street



Challenges

- Funding (or lack thereof)
 - Solution – Crowdsource and foundation match paid for design; CMAQ grant paid for construction

Design

Index Of Sheets
SEE SHEET 1A FOR INDEX

THIS PROJECT TO BE BRACKETED WITH THE HAMPLINE+ PHASE 2 BRIDG AVENUE WEST

CITY OF MEMPHIS
DEPARTMENT OF ENGINEERING

THE HAMPLINE: PHASE 2 TILLMAN STREET

TENN.	YEAR	SHEET NO.
	2014	1
FED. AID PROJ. NO.		
STATE PROJ. NO.		
CITY PROJ. NO.		
LOCALLY FINANCED AND LET PROJECT		

NO EXCLUSIONS
NO EQUATIONS

SCALE: 8" = 1"

UNOFFICIAL
SET
NOT FOR
BIDDING

60% SUBMISSION - 06/06/14

BEGIN PROJECT
STA. 150+25.00
N 320558.7331
E 784524.3278

END PROJECT
STA. 189+67.62
N 316635.9540
E 784253.0283

SPECIAL NOTES
PROPOSALS MAY BE REJECTED BY THE CITY OF ANY OF THE UNIT PRICES
CONTAINED THEREIN ARE CONSIDERED UNBALANCED, EITHER EXCESSIVE OR BELOW
THE REASONABLE COST ANALYSIS VALUE.
THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE
TENNESSEE DEPARTMENT OF TRANSPORTATION DATED FEBRUARY 4, 2014 AND ADDITIONAL
SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN
THE PROPOSAL CONTRACT.

APPROVED BY:
CITY TRAFFIC ENGINEER DATE
CITY ENGINEER DATE

SCALE: 1" = 1,000'

61SE

OVERTON PARK

14 13 12 11 10 9 8 7 6 5 4 3 2 1

altia
PLANNING + DESIGN
1000 S. MAIN STREET, SUITE 200 PHOENIX
ARIZONA 85004
PH: 602.498.1234
WWW.ALTIADESIGN.COM



Challenges

- Funding (or lack thereof)
 - Solution – Crowdsource and foundation match paid for design; CMAQ grant paid for construction
- City engineering and state DOT didn't understand project
 - City has been brought along thru education and is now partner in advocating to TDOT

Hampline – segment opened Fall 2015



Payoffs – Broad Avenue Corridor

\$20+ million
in properties purchased, built
and/or renovated, completed
and/or planned

New Businesses

bringing retail,
bars/restaurants,
medical/dental, spiritual and
related services



30
New
Businesses



40,000+
Art Walk
Visitors



29 Significant
Property
Build/
Renovations

(including 17
blighted
locations)



5
Public Art
Installations

Revitalizing a Neighborhood

PLUS Overton Park Conservancy and
Shelby Farms Greenline

Water Tower Pavilion

ArtPlace America Grant Winner

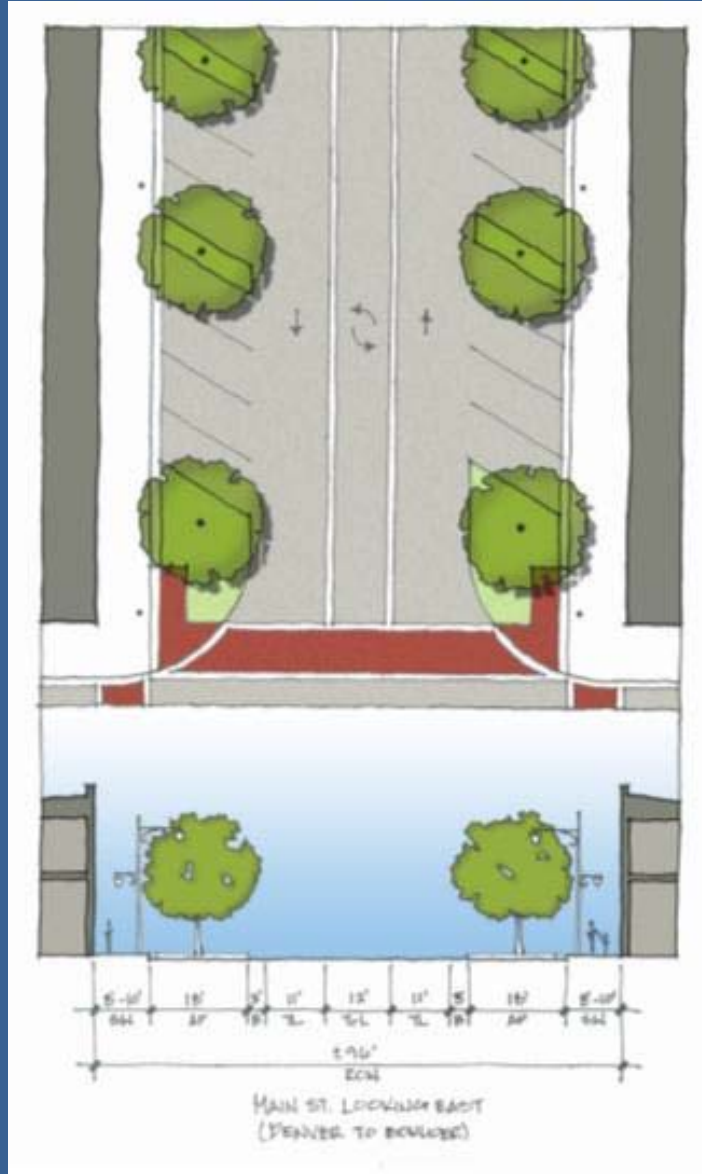
- Water Tower becomes beacon
- Street and loading dock area are knitted together via terraced seating
- 500 foot linear park developed
- Community-based programming delivered



Russellville (AR) Downtown Master Plan (2011)



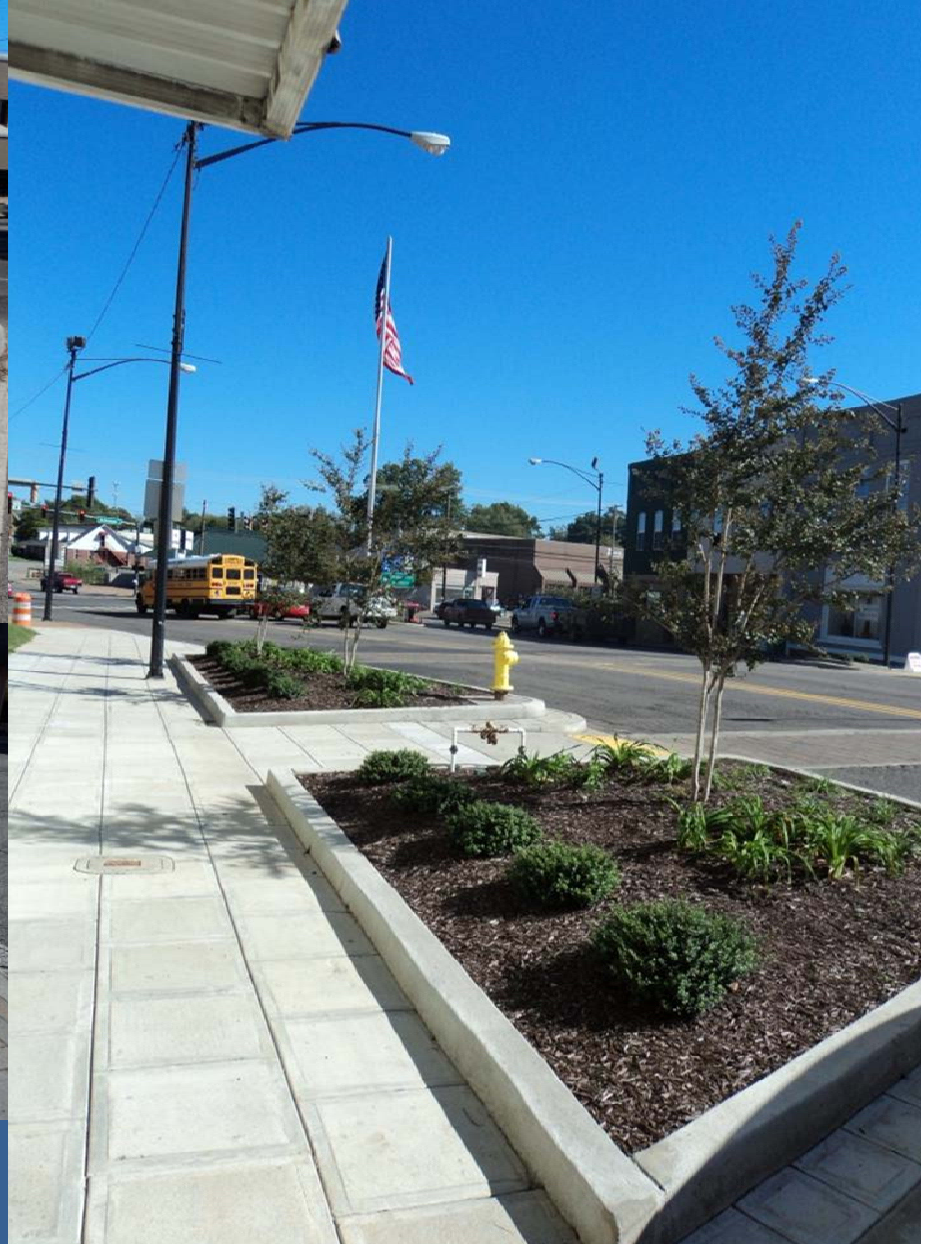
Main Street/US 64 Initiative



Challenges

- Construction issues with soils
 - Solution: retrofit base material for crosswalks post-construction

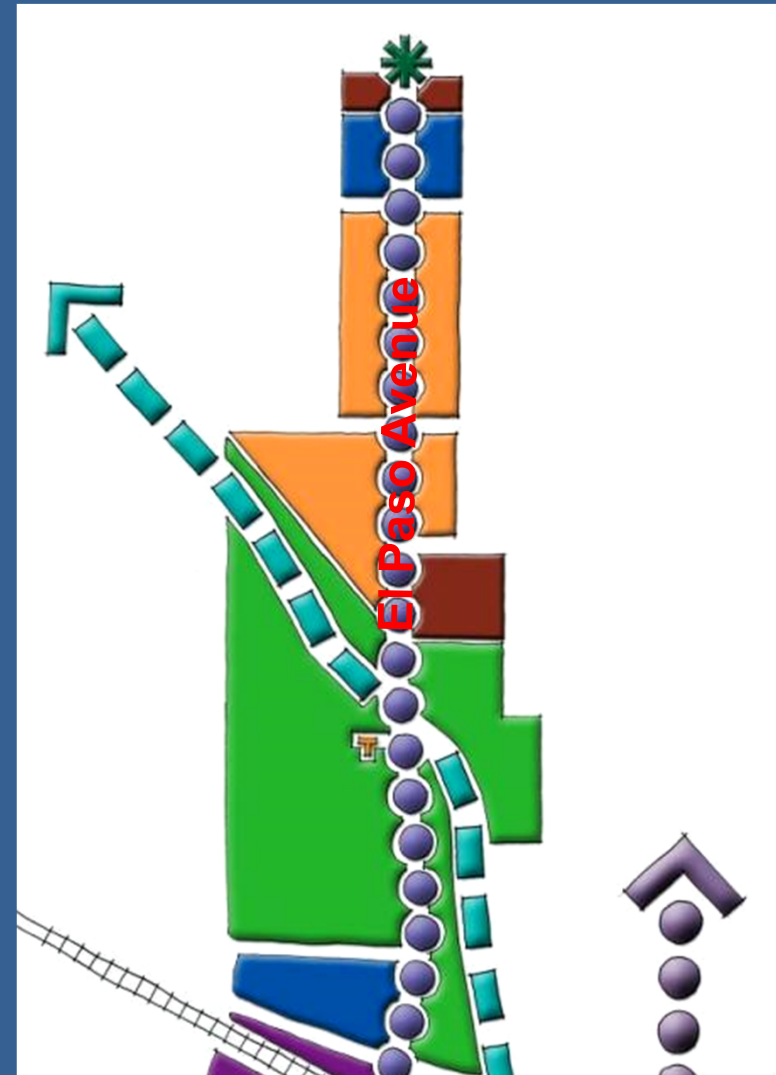
Main Street Bulbouts



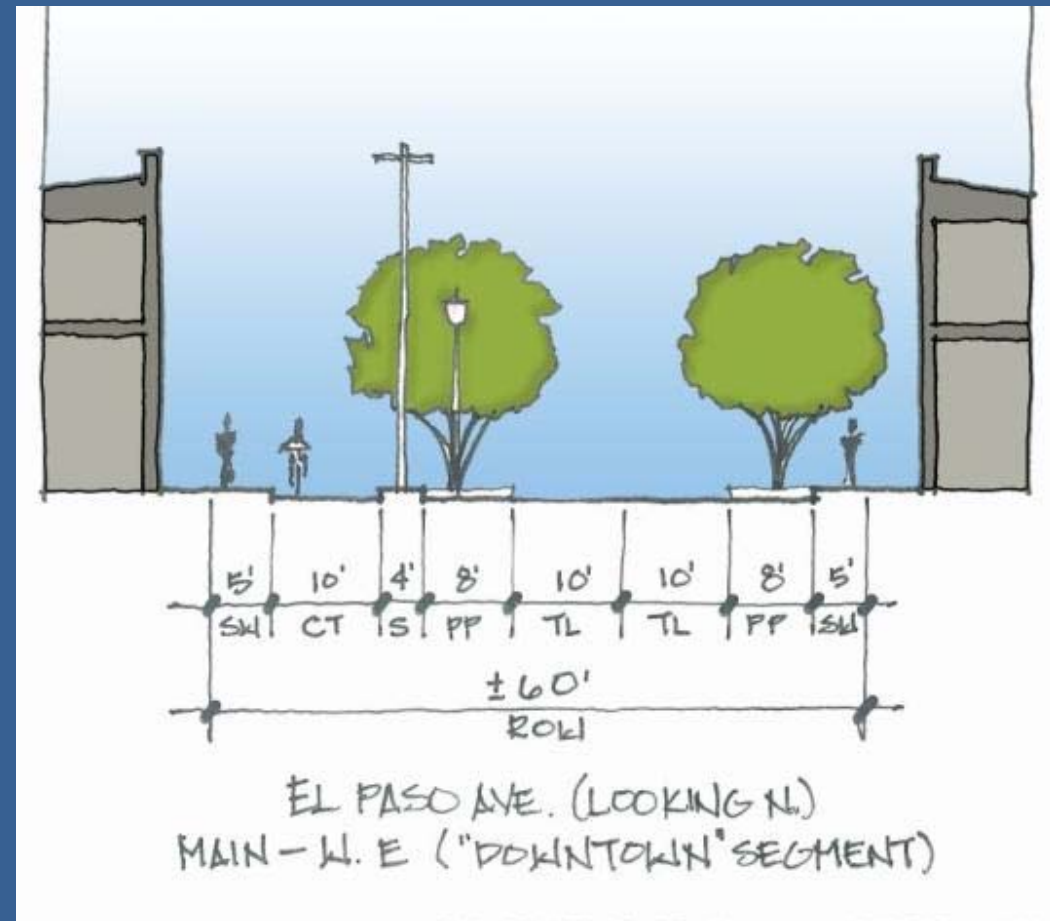
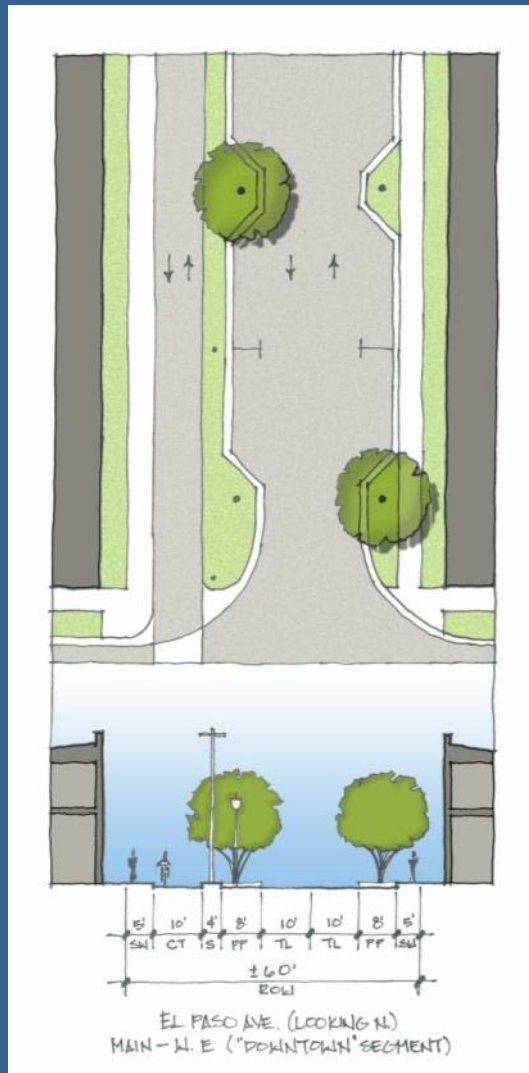
El Paso Corridor – Master Plan

LEGEND

	Park (high priority)		Greenway
	Park (low priority)		Key Street
	Civic / Institutional		
	Religious		
	Mixed Use (Retail Emphasis)		
	Mixed Use (Office Emphasis)		
	Mixed Use (Residential Character)		
	Mixed Use (Neighborhood Scale)		
	Mixed Housing		



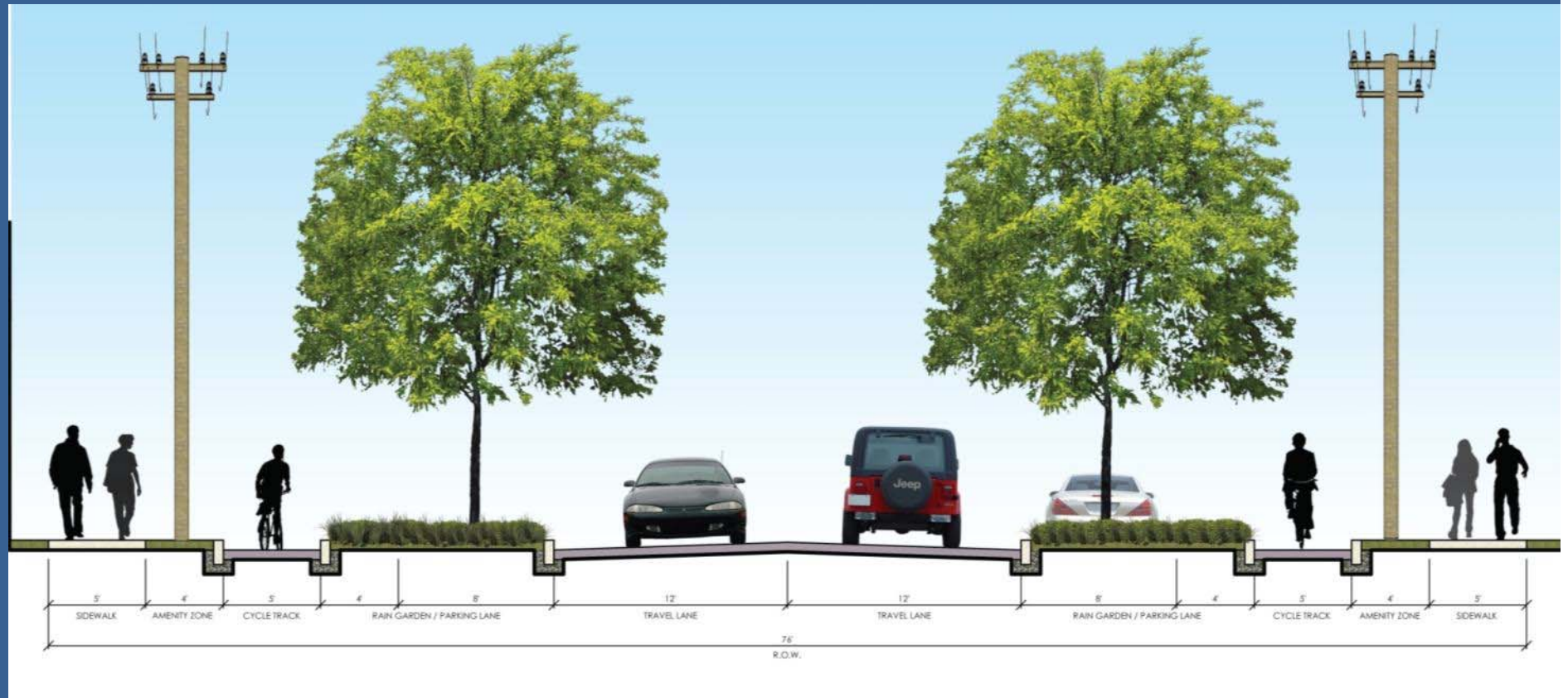
Charrette Concept



Challenges

- Construction issues with soils
 - Solution: retrofit base material for paver crosswalks post-construction
- Discovered massive concrete slab under roadway (former state highway)
 - Solution: Modify design concept to keep centerline in place to avoid significant demolition

El Paso Corridor – Refined Concept



One Way Cycle Track

Design (Fall 2012-Spring 2013)



Construction (2013- 2014)



Key: progressive City traffic engineer and supportive university (\$)

“Though El Paso Avenue has its own design, the concept is similar to the H Street and Parker Road project, with vehicle travel lanes, bike lanes, trees, sidewalks and period lighting.

“It’s going to be one cool street,” Oakes said... He added that capital road projects such as these are paid for with proceeds from the city’s one-cent sales tax.”

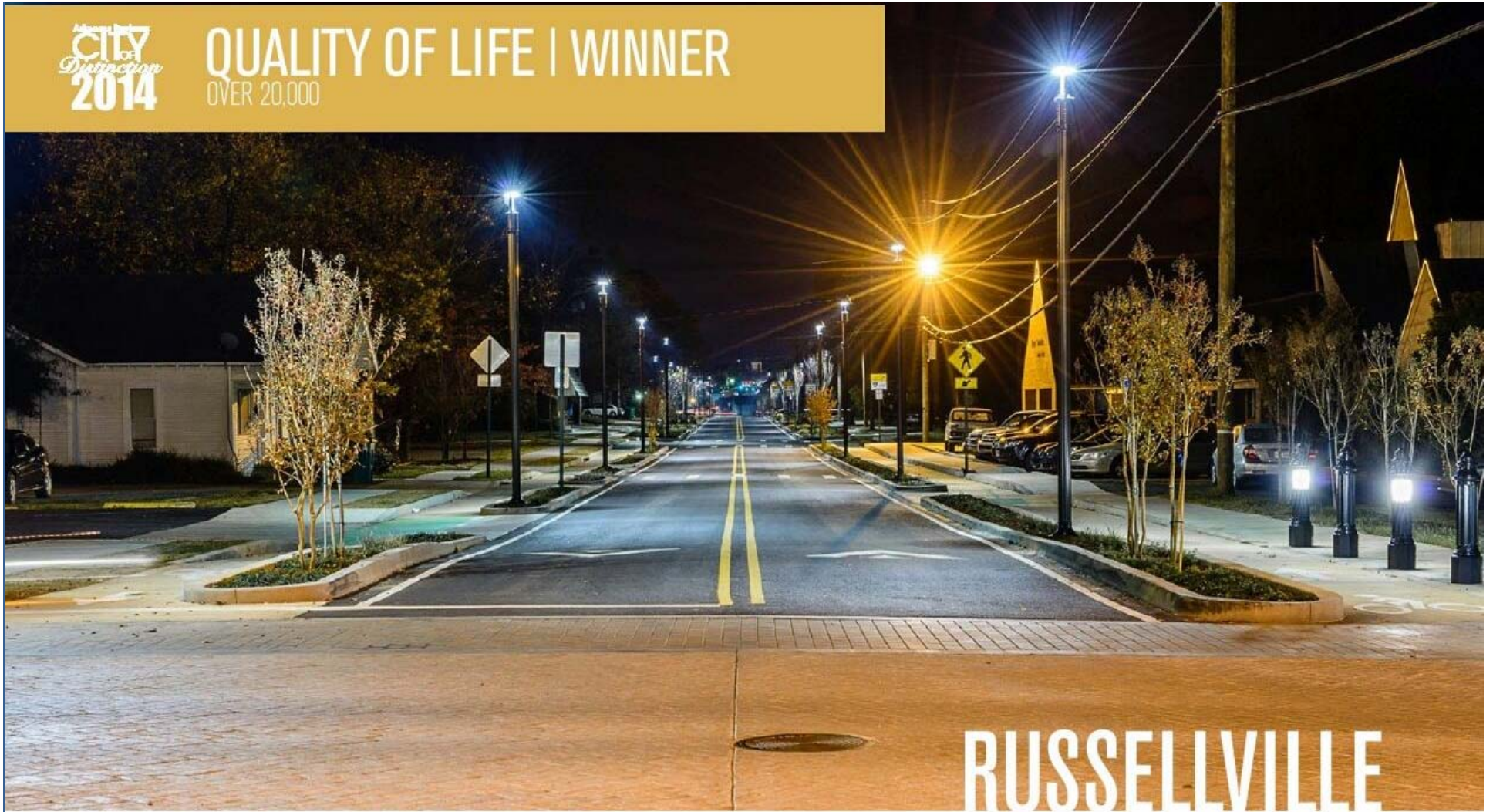








QUALITY OF LIFE | WINNER
OVER 20,000



Post-construction:

- New businesses along corridor
- New businesses downtown
- Foot and bike traffic
- University pursuing mixed use with housing corridor

Strategies to Overcome Challenges in Implementation

- Use national guidance; change the rules
- Collaborate with community at all stages
- Quantify impacts; accept congestion
- Tap non-traditional funding; know your contracting community
- Be flexible with design, but respect the vision

A Policy on Geometric Design of Highways and Streets

2011
6th Edition



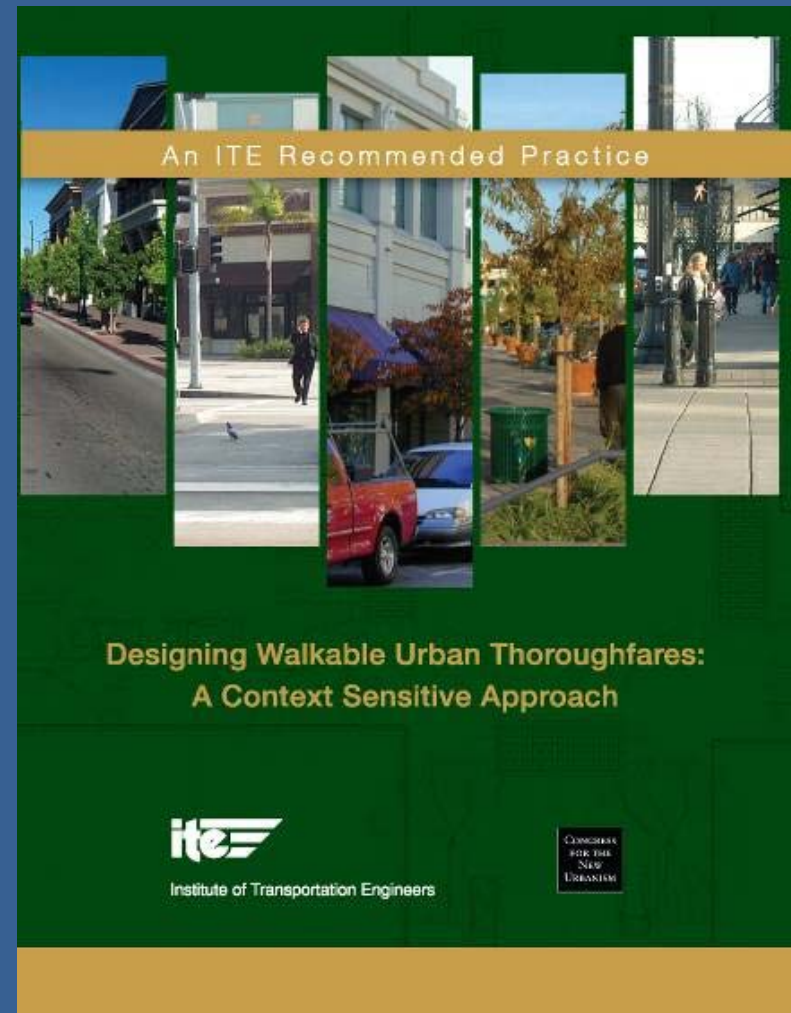
"These geometric design are intended to provide operation efficiency, comfort, safety, and convenience for the motorist. The design concepts presented herein were also developed with consideration for environmental quality. The effects of the various environmental impacts can and should be mitigated by thoughtful design processes. This principle, coupled with that of aesthetic consistency with the surrounding terrain and urban setting, is intended to produce highways that are safe and efficient for users, acceptable to non-users, and in harmony with the environment."

*From the Forward to the AASHTO
Green Book*

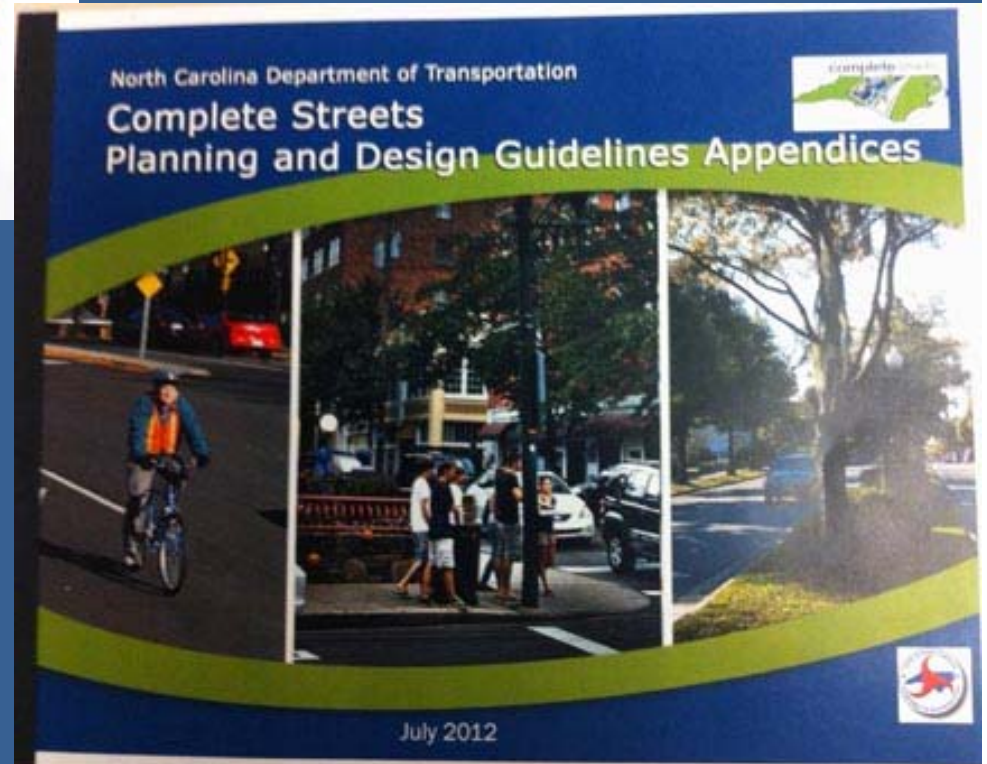
Guidance Today

"This report has been developed in response to widespread interest for improving both mobility choices and community character through a commitment to creating and enhancing walkable communities."

From Chapter 1 of the Recommended Practice, 2010



And More Guidance...



Where Research Can Help

- Reinforce context sensitive solutions
- Highlight flexibility in standards; compile “best of” for Complete Streets guidelines
- Quantify changing travel trends – no longer “business as usual”
- Compile before and after data

Thank You!

“America . . . conceived many odd inventions for getting somewhere, but could think of nothing to do when they got there”

Will Rogers, 1936

