OTP
office of transportation planning

Currituck Drive Neighborhood Streetscape

Neighborhood Traffic Management Program

City Council Special Item

April 21, 2015

OTP
office of transportation planning

Background & Summary

City Council Direction – April 7, 2015

- Provide alternatives to traffic circles
- Investigate ways to reduce cost

- Staff has alternatives for four locations
  - Positive implications
  - Negative implications
  - Cost impacts

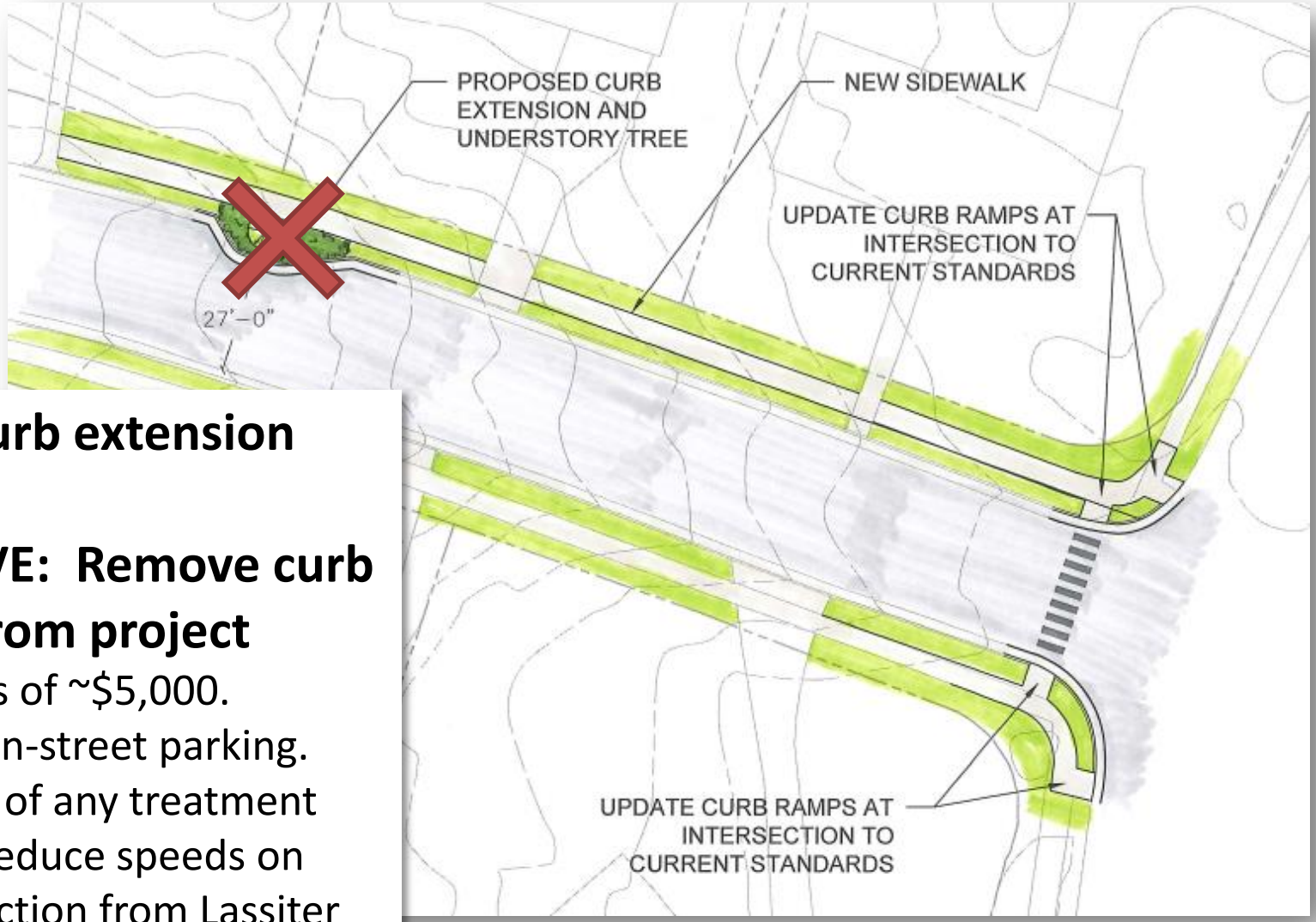
OTP
office of transportation planning

Location A: Near Lassiter Mill

(Facing West)

OTP
office of transportation planning

Location A: Near Lassiter Mill



Proposed curb extension

ALTERNATIVE: Remove curb extension from project

+ Cost savings of ~$5,000.
+ No loss of on-street parking.
– Elimination of any treatment serving to reduce speeds on downhill section from Lassiter Mill or acting as a gateway feature.

OTP
office of transportation planning

Location F: Macon

(Facing West)

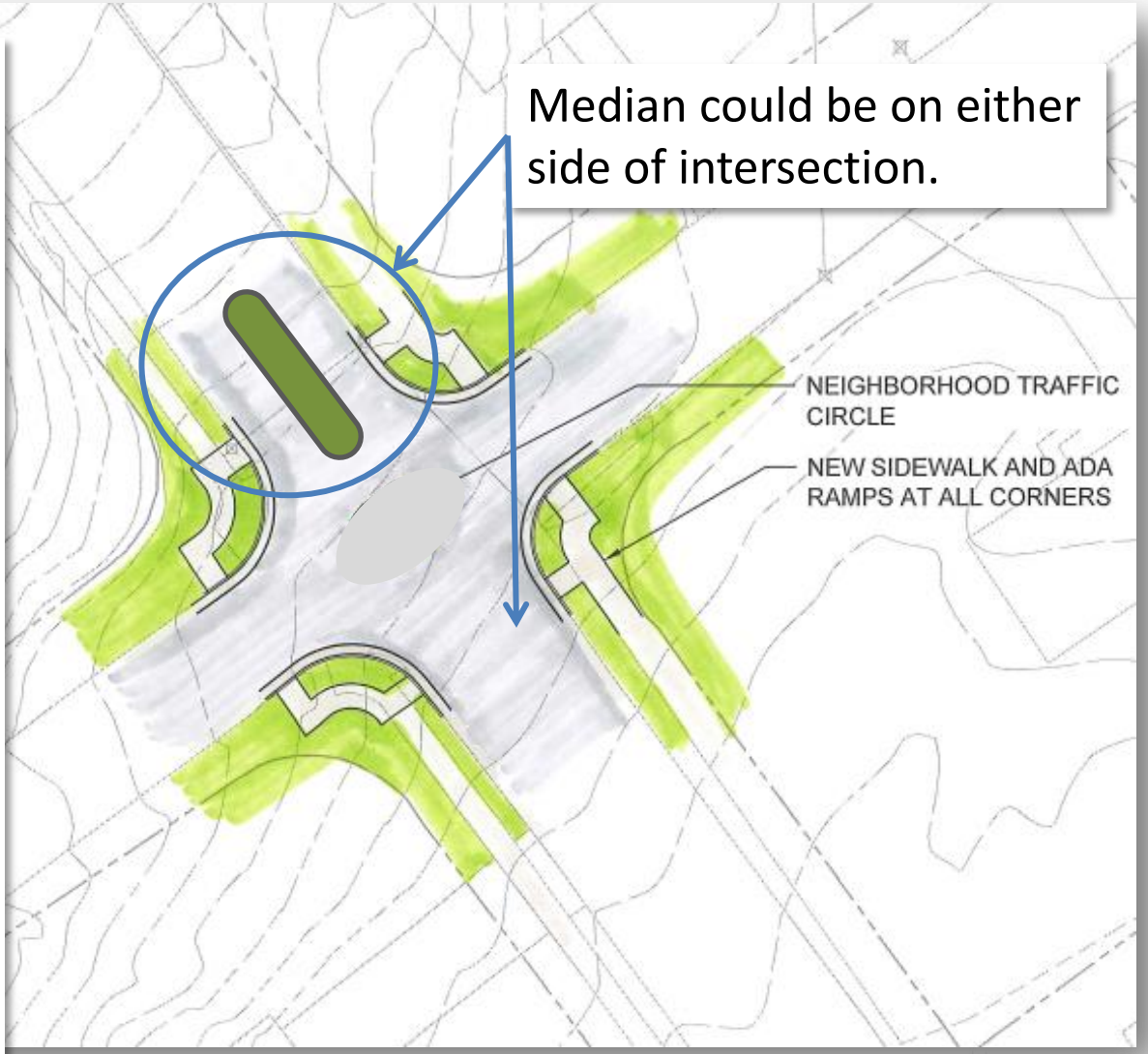
OTP
office of transportation planning

Location F: Macon

Proposed neighborhood traffic circle

ALTERNATIVE: Replace circle with single median

+ Cost savings of ~$8,600.
+ More familiar design.
+ No significant impacts to large vehicle access.
+ Improved pedestrian safety with a two-stage pedestrian crossing.
– Loss of 6-8 parking spaces.
– Less speed reduction due to higher design speed of ~30-35 mph (compared to ~15 mph for a circle).



OTP
office of transportation planning

Location G: Yadkin

(Facing West)

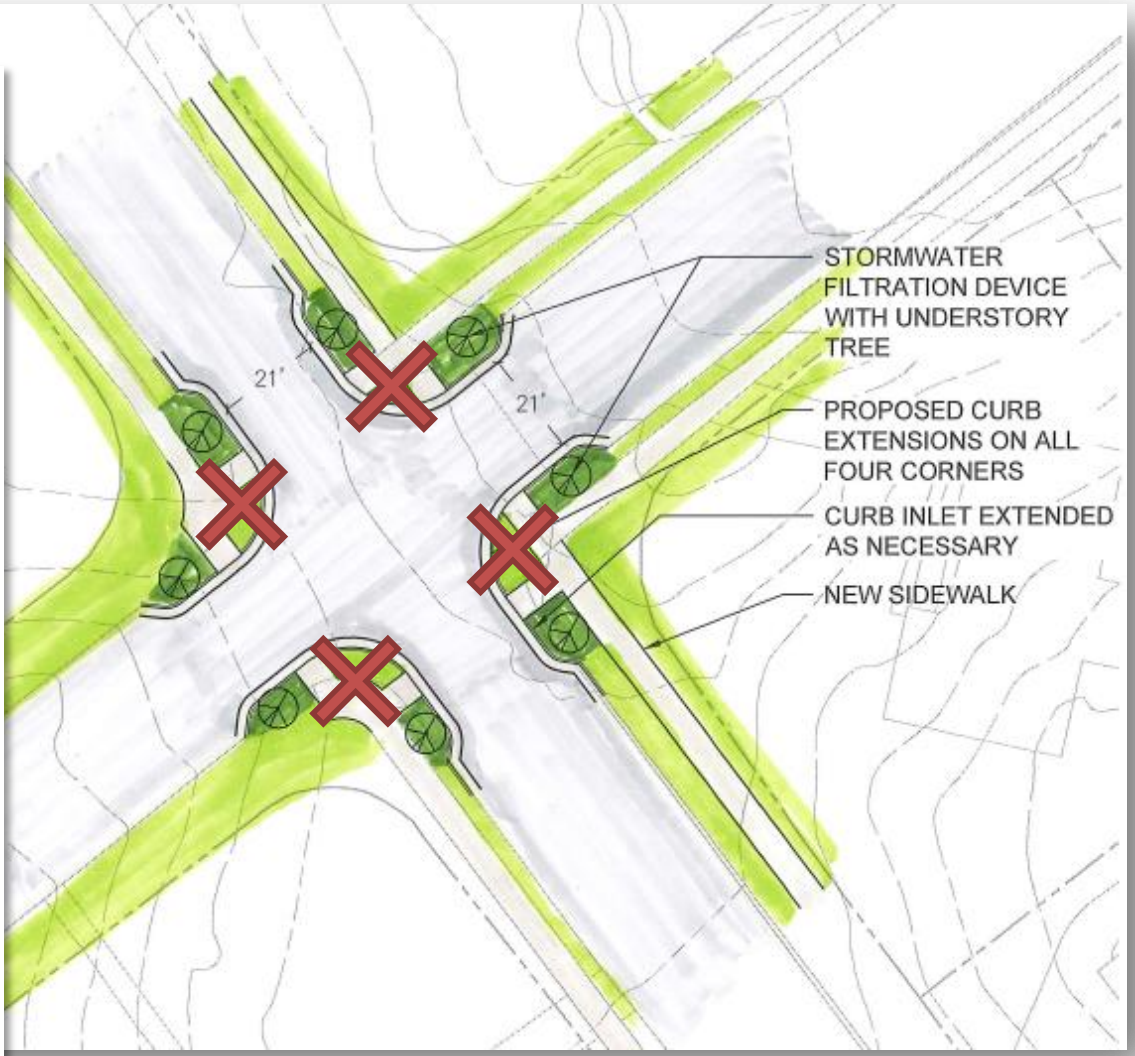
OTP
office of transportation planning

Location G: Yadkin

Proposed curb extensions

ALTERNATIVE: Remove curb extension from project

- Install appropriate crosswalks.
+ Cost savings of ~$22,000.
+ Improved pedestrian visibility.
– Loss of aesthetic enhancements and a gateway feature for Currituck.
– No improvement in pedestrian crossing exposure.
– Loss of an opportunity to install devices to improve water quality.



OTP
office of transportation planning

Location I: Tyrrell

(Facing West)

OTP
office of transportation planning

Location I: Tyrrell

Proposed neighborhood traffic circle

ALTERNATIVE: Remove the neighborhood traffic circle

- Investigate and evaluate a 4-way stop and crosswalks.
+ Cost savings of ~$20,500.
+ More familiar design.
+ No significant impacts to large vehicle access.
– Loss of aesthetic enhancements and a gateway feature for Currituck.

OTP
office of transportation planning

Summary

Item	Original Concept	Modified Concept
Treatment A – Near Lassiter Mill	$5,000	$0
Treatment B – Rowan	$24,200	$24,200
Treatment C – Tower	$11,000	$11,000
Treatment D – Curve	$13,800	$13,800
Treatment E – Catawba	$23,200	$23,200
Treatment F – Macon	$20,000	$11,400
Treatment G – Yadkin	$24,000	$2,000
Treatment H – Davidson/Chowan	$38,900	$38,900
Treatment I – Tyrrell	$22,500	$2,000
Subtotal: Traffic Calming	***$182,600***	***$126,500***
Sidewalk	$180,000	$180,000
Sidewalk Ramps	$50,400	$50,400
Subtotal: Sidewalk	***$230,400***	***$230,400***
Project Total	**$413,000**	**$356,900**

-$5,000

-$8,600

-$22,000

-$20,500

Traffic calming costs lowered ~31%

QUESTIONS / DISCUSSION