



BUILDING THE FUTURE
Winston-Salem



Business 40 Improvements

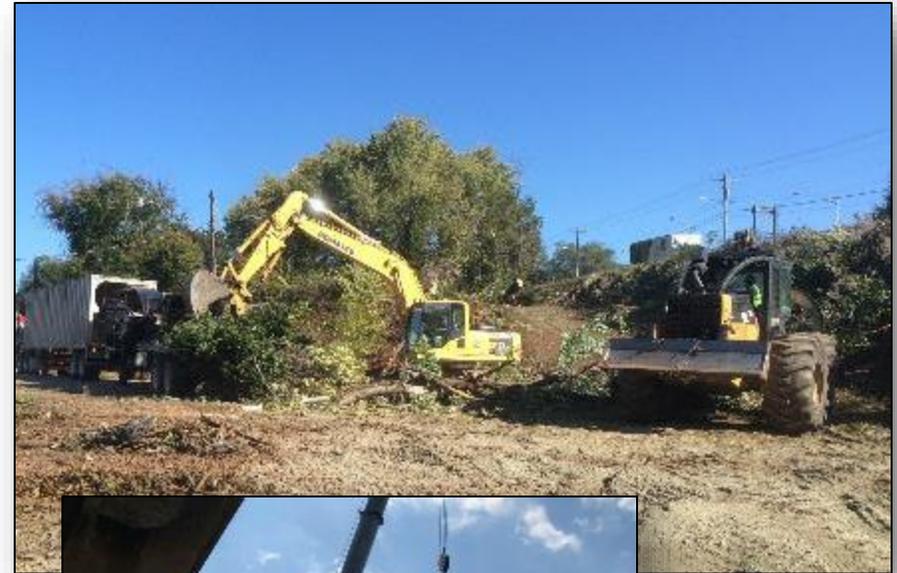
WS Public Works Committee
August 14, 2018

Building the Future **BUSINESS 40**



Today's Presentation

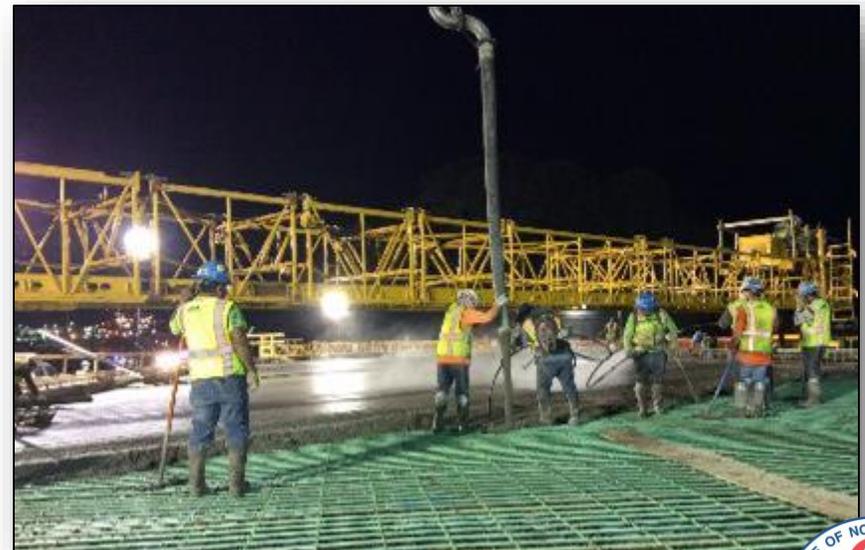
- **Contractor**
- **Timeline**
- **Construction Segments A-D**
- **Construction Update**
- **Mitigation:**
 - **Incident Management**
 - **Transit Programs**
 - **Other mobility options**
- **Contact information**



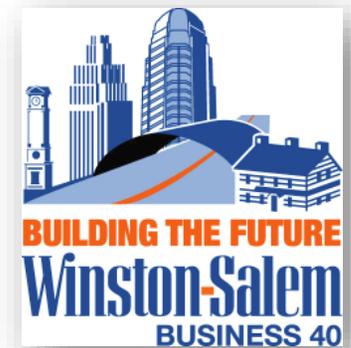
Design-Build/Construction Team

Flatiron Constructors, Inc./Blythe Development Company Joint Venture and HDR Engineering Inc.

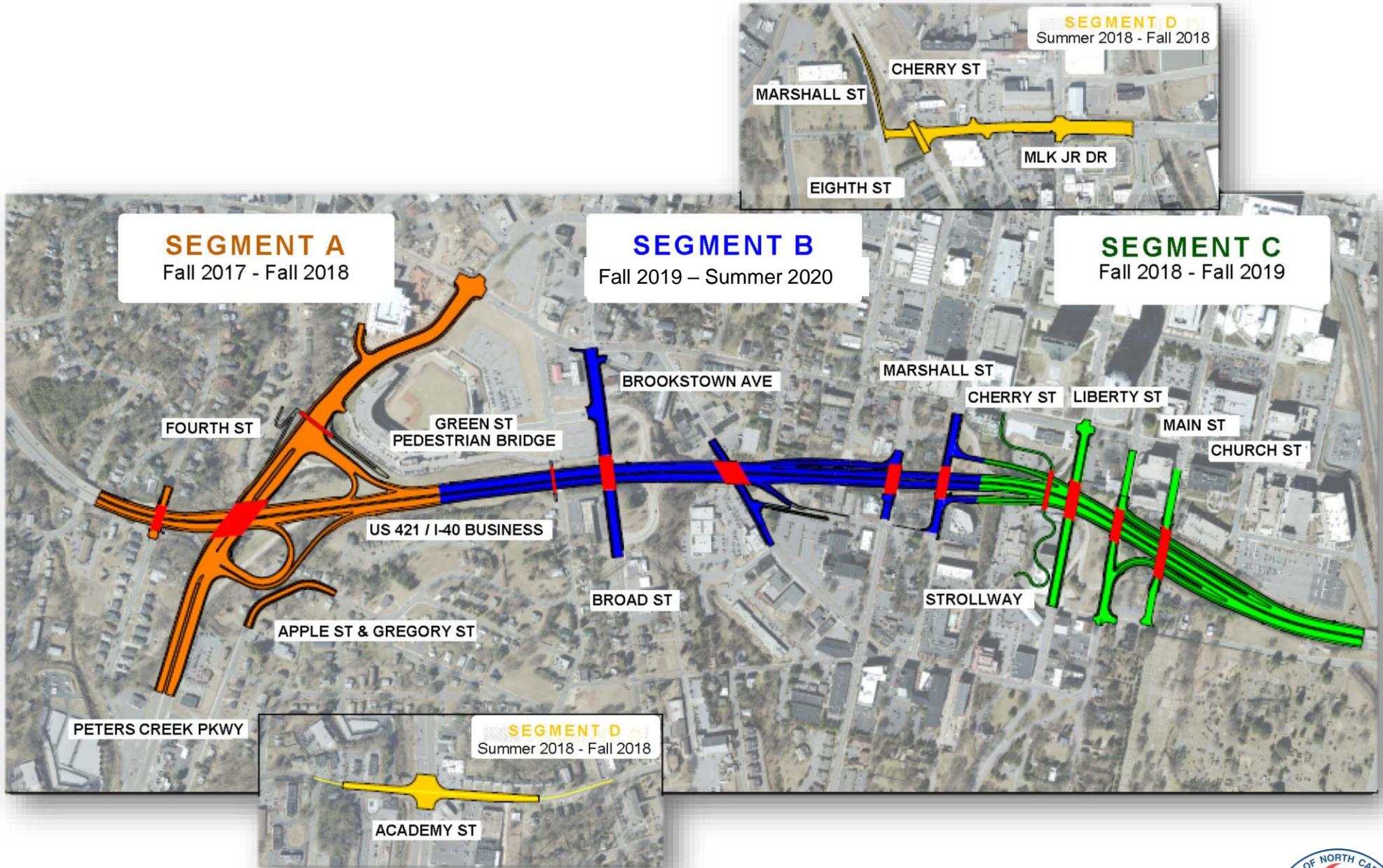
- Rebuild the 1.2-mile section of Business 40, which includes reconstruction of the roadway, 9 vehicular bridges and 2 pedestrian bridges.
- **\$99.2 million plus incentives for early completions.**
- Increase speed limit to 55mph.
- **Rename US 421/Business 40 to “Salem Parkway”.**



Design-Build Timeline



Construction Segments A-D



Current/Ongoing Construction Work

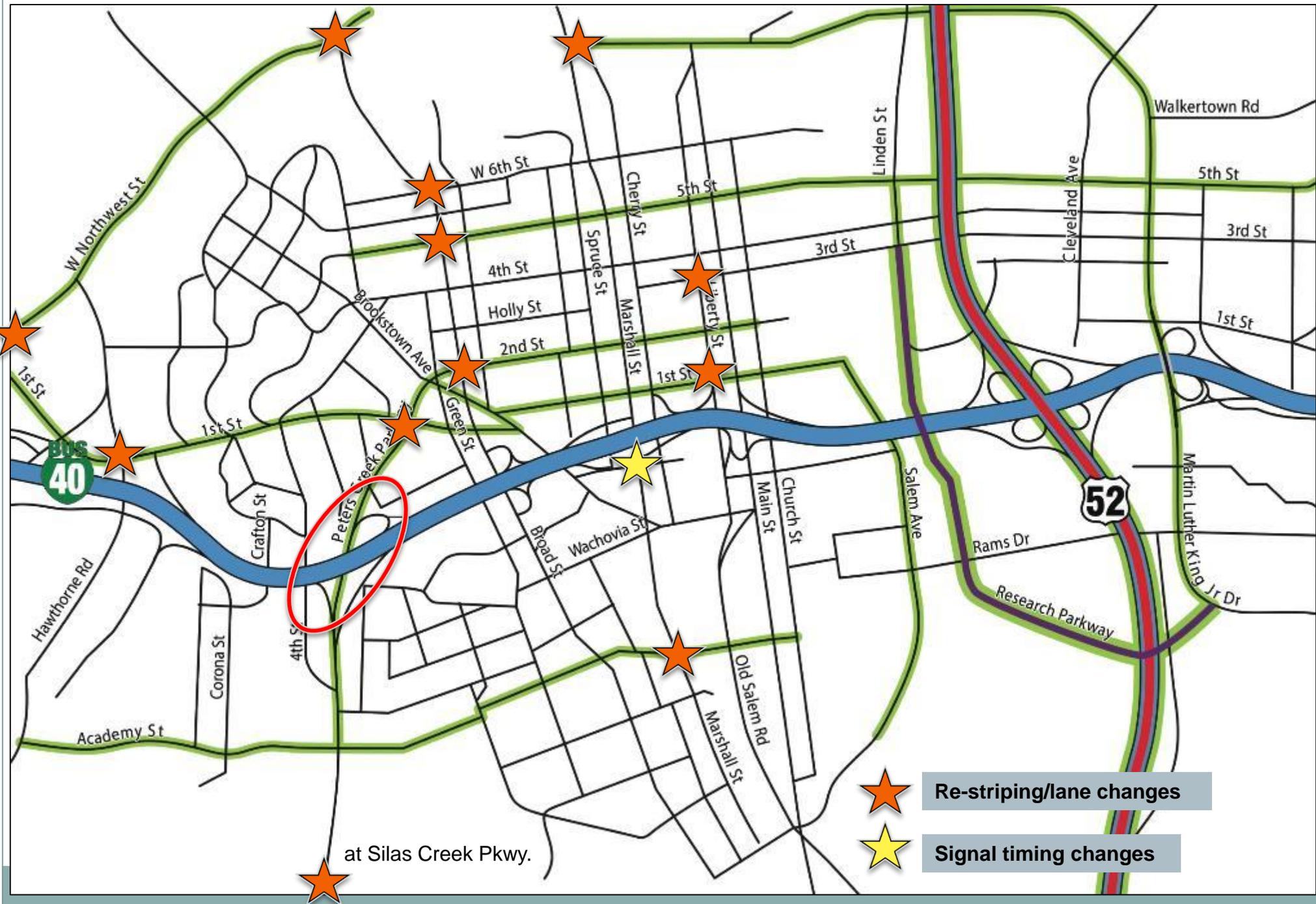
- Temporary inner lane closures between Peters Creek Parkway and Cloverdale Ave. until Sept. 1.
- **Water line on First Street near completion.**
- Girders have been placed on the new Peters Creek Parkway bridge and the new loops and ramps are underway.
- **Traffic has been shifted to the new bridge; the existing bridge is being demolished and work has begun on replacing this section.**
- Construction of the multi-use path (MUP) tunnel near BB&T Ballpark and retaining walls for the MUP and at 4th Street are underway.



Notification During Construction

- **Early notification to News Media via Press Releases.**
 - Reference to NCDOT's Traveler Information Management System (TIMS) site at www.ncdot.gov , click on Travel and Maps, then click on TIMS.
- **Stakeholder email notification and distribution**
- **Message Boards on Business 40 to notice lane closures.**
- **Notice to navigational companies, particularly WAZE.**
- **Postings on Project Web Site (in process of being updated) and Social Media:**
 - www.business40nc.com
 - @NCDOT_Triad #Biz40NC

City's Off-Site Improvements



Other Off-Site Improvements

- **First Street at Liberty Street**
 - Install final signal modification and lane markings.
- **Sixth Street at Broad Street**
 - Convert EB lane to WB left turn lane;
 - Restripe SB lane to two lanes.
- **Fifth Street at Broad Street**
 - Restripe WB lane to dual left turn lanes w/shared thru-right lane.
- **Second Street at Broad Street**
 - Convert left most EB thru lane to a shared thru-left lane.
- **Academy Street at Marshall Street**
 - Convert SB left thru-right lane to exclusive left turn lane.
- **Third Street at Liberty Street**
 - Provide a separate left turn lane westbound.



Off-Site Improvements

- **Marshall/Cherry Streets at Eighth Street**
 - Provide a second SB left turn lane.
 - Provide exclusive EB thru lane between Marshall and Cherry.
- **First Street at Northwest Boulevard**
 - Provide a separate SB right turn lane.
- **First Street at Hawthorne Road**
 - Provide a separate NB right turn lane.
- **Broad Street at Northwest Boulevard**
 - Provide a separate EB left turn lane.
- **Peters Creek Parkway at Silas Creek Parkway**
 - Provide a second SB left turn lane; convert the rightmost EB left turn lane to a thru lane and; convert the rightmost EB thru lane to a second right turn lane.

Off-Site Improvements

- **Peters Creek Parkway at Business 40 ramps**
 - Reconstruct interchange as a half cloverleaf;
 - At Bus 40 EB ramp, add dual left turn lanes and dual right turn lanes to WB approach;
 - At Bus 40 WB ramp, convert the left-most SB thru lane to an exclusive left turn lane.
- **Peters Creek Parkway at First/Second Streets**
 - Provide a second exclusive EB left turn lane
- **High Street at Marshall Street**
 - Adjust signal timing to achieve acceptable LOS.

Detour Routes for Bridges and Project

- **Finalizing detour routes for each bridge.**
- Will have both vehicular and pedestrian detours.
- **Creating pocket size maps that fold out to 8"x10' maps showing detours.**
- Business 40 detour will include I-40, U.S. 52 and Peters Creek Parkway.



Managing Incidents during Closure

- **Quick Clearance program has been implemented and training for all responders is ongoing.**
 - Requires that all emergency responders will conduct their duties in as expedient a manner as possible, considering the safety of the crash and the need to provide quality care to those involved.
- **Additional message boards to alert drivers.**
- **More safety patrol drivers and routes.**
- **Staged incident response equipment at high incident locations.**
- **City's new signalization system will help identify congested areas; signal timing can be monitored/changed as needed.**



Managing Incidents during Closure

- **Additional “tow and recovery” contracts with towing companies to ensure quick arrival and removal.**
- **Open Roads Policy – currently being refined**
 - Establishes the commitment to promote safe and efficient Traffic Incident Management procedures and prioritize Quick Clearance strategies in Winston-Salem Forsyth County during the closure.



Lane and Sidewalk Closure Policy

- In May 2018, City Council adopted a Lane and Sidewalk Closure Policy:
 - Updated user fees to include charging a fee for road closures that affect traffic flows in downtown.
- The fees would be applied for any lane or sidewalk closure approved or implemented on marked and unmarked routes used by travelers on roadways *associated* with the Business 40 closure.
- Exemption from fees - road closures and detours specifically associated with contractors doing work on, or for, the Business 40 Project.
- Policy becomes effective November 1, 2018 (same month as the full closure).



Lane and Sidewalk Closure Policy

Updated fee Structure

Full Street Closure	Review Type	Review Fee	Daily Closure Fee
	CBD Facility	\$200	\$110
	Major Facility	\$200	\$75
	Minor Facility	\$200	\$65
	Local Facility	\$200	\$25
Peak period additional \$115 per peak period AM or PM			
Lane Obstruction	Review Type	Review Fee	Daily Closure Fee
	CBD Facility	\$200	\$95
	Major Facility	\$200	\$60
	Minor Facility	\$200	\$50
	Local Facility	\$200	\$10
Peak period additional \$100 per peak period AM or PM			
Sidewalk Obstruction	Review Type	Review Fee	Daily Closure Fee
	Sidewalk Closure	\$25	\$50
On Street Parking Obstruction	Review Type	Review Fee	*Daily Fee per Meter
	Parking Space Obstruction	\$25	\$10
*Daily fee excludes weekend and holiday.			



Proposed Transit Programs

- **Winston-Salem Transit Authority (WSTA) and the Piedmont Authority for Regional Transportation (PART) have been working with the Federal Highway Administration (FHWA) and NCDOT to expand public transit opportunities to individuals and businesses during the Business 40 closure period.**
- **The proposed programs (on next slides) not only provide another travel option, but they also help connect and move people around and encourage the use of transit both locally and within the Triad region.**



WSTA Proposed Transit Programs

(wstransit.com)

- **Congestion Management Services**
 - Increased Frequency to Impacted Routes 80, 85, 95, 103, 104 & 107.
 - Park & Ride Locations with Express Bus Service for direct downtown access (Routes 83, 84, 87, 89, 98, 102, 105, 109).
 - Rehabilitation of 17 Fixed Route Buses.
- **Incentive Services**
 - Guaranteed Ride Home Program, as service for Park & Ride participants to access their cars in case of emergency.
- **Marketing and Communication Services**
 - Marketing Campaign.
 - Travel and Training Information Sessions, instructional sessions to teach new transit riders how to navigate the system.
- **Additional Call Center Coverage**



PART Proposed Transit Programs

(partnc.org)

- **Expanded Public Transit Service**
 - Expansion of Route 6 - Surry Express
 - Expansion of Routes 17 & 18 - Kernersville Connector
 - New service from the western area of Winston-Salem (I-40 and US 421)
- **Employer/Employee Transit and Vanpool Subsidy**
 - Subsidy programs for employer-sponsored business with significant reductions in bus pass and Vanpool groups.
- **Market outreach and business coordination with various groups and businesses in the area.**



Other Options

- **Bicycling/Walking**
 - Wider sidewalks on new bridges
 - MUP, Long Branch Trail, bike lanes
- **Employers:**
 - Telecommuting
 - **4-day, 10-hour/day work week**
 - Flextime, staggered work hours
 - **Webinars, on-line sharing in lieu of meetings**



Outreach and Communication

- **Social media:**

- Web site: www.business40nc.com
- Twitter: @NCDOT_Triad #Biz40NC

- **Email:**

- business40@business40nc.com

- **Mail:**

- Business 40 Project, NCDOT - Division 9
375 Silas Creek Pkwy., Winston-Salem, NC 27127



Outreach and Communication

- **Mobile Navigational Apps.**
 - NCDOT has recently partnered with WAZE.
 - Will be able to make changes daily re. closures, lane changes, etc.
 - Added benefit to those traveling in the area.
- **Presentations like the one today.**
- **Newsletters - on Web Site.**
- **Small Business Liaison - SPECIFICALLY for this project.**
- **Downtown Partnership, Chamber and City – Marketing Campaign to let people know that:**

DOWNTOWN IS OPEN FOR BUSINESS!



Your Business 40 Team

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Outreach and Stakeholder Presentations

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Building the Future **BUSINESS 40**

