



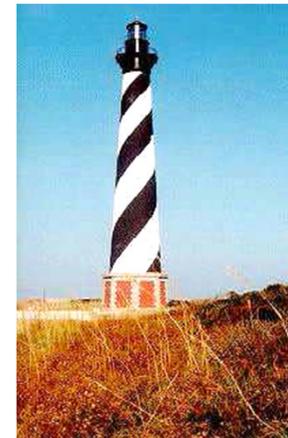
North Carolina Transportation Network
Regional Meetings

May 2014

WELCOME TO THE NC TRANSPORTATION NETWORK UPDATE REGIONAL MEETING

Regional Meetings:

- May 7: Edenton & Kinston
- May 12: Kernersville & Kannapolis
- May 13: Wake Forest & Lumberton
- May 19: Sylva
- May 20: Morganton



MEETING OBJECTIVE

To gain Regional Stakeholder input on a proposed network of statewide and regional Strategic Transportation Corridors.



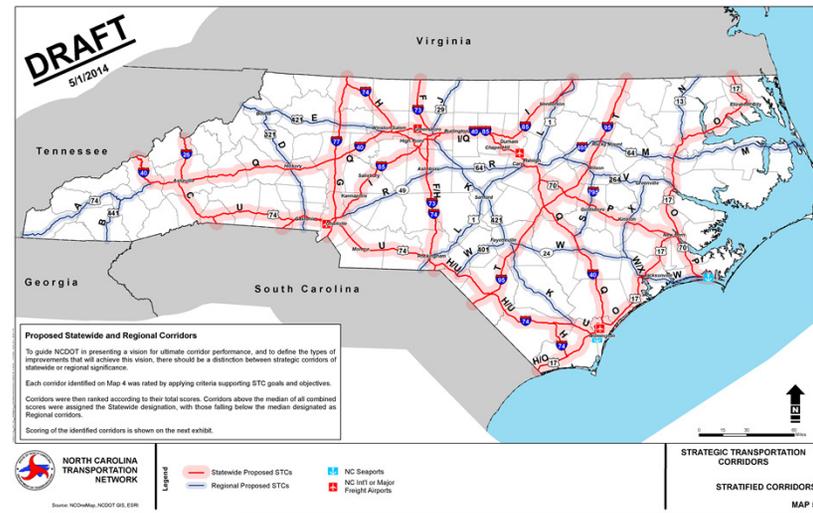
CAUTION!

Today's meeting will not address specific projects or the scoring of specific projects as they are being tested under Project Prioritization.

The Strategic Transportation Corridors presented today do not affect project scoring under Project Prioritization.

AGENDA

- What are Strategic Transportation Corridors?
- STC Vision and Goals
- Basis for Identified Corridors
- Proposed Corridors
- Proposed Corridor Stratification



WHAT ARE STRATEGIC CORRIDORS?

WHAT ARE STRATEGIC CORRIDORS?

- The backbone of the state's transportation system, a critical network of multimodal corridors that:
 - Move high volumes of freight and intercity travel within the state
 - Form our primary links to interstate and international markets
 - Link critical centers of economic activity and our international air and sea ports
- Cornerstone of NCDOT's updated NC Transportation Network
- An updating of current Strategic Highway Corridors

HOW WILL STCs BE USED?

STCs are a planning tool, supporting multiple NCDOT activities:

- Comprehensive Transportation Plans, by defining corridors with the highest levels of statewide interest
- Project development, by providing system-level input to Purpose & Need
- Access management, by establishing corridors needing high levels of access control

WHY UPDATE SHC?

- To respond to 2040 Plan directive
- To consider multimodal opportunities
- To create a data-driven corridor identification basis
- To focus on high-priority corridors



SHCs - "A set of existing highways vital to moving people and goods within and just outside North Carolina"



*Questions or further
direction?*

STRATEGIC CORRIDOR VISION & GOALS

STRATEGIC CORRIDORS VISION & GOALS

Strategic Corridors framework defines:

1. Vision
2. Corridor goals
 - Provide system connectivity
 - Provide reliable, higher-speed mobility
 - Promote economic prosperity



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STC Vision and Goals

Strategic Corridors Vision: to provide North Carolina with a network of high-priority, multimodal transportation corridors and facilities that connect statewide and regional activity centers, to enhance economic development, promote highly-reliable, efficient mobility and connectivity, and support good decision-making.

STRATEGIC CORRIDORS VISION & GOALS

Strategic Corridors framework defines:

1. Vision
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 - Provide system connectivity
 - Provide reliable, higher-speed mobility
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STC Vision and Goals

Strategic Corridor Goals:

- *System connectivity*: Provide essential links as part of defined Interstate highway, defense, and freight networks for movement of people and goods.
- *Mobility*: Facilitate significant movements of people and goods across the state.
- *Economic prosperity*: invest NC's transportation resources to maximize economic opportunity.



*Questions or further
direction?*

STRATEGIC CORRIDORS IDENTIFICATION

STC IDENTIFICATION

Objective: Apply STC objectives and criteria to define a network of strategic corridors

Process:

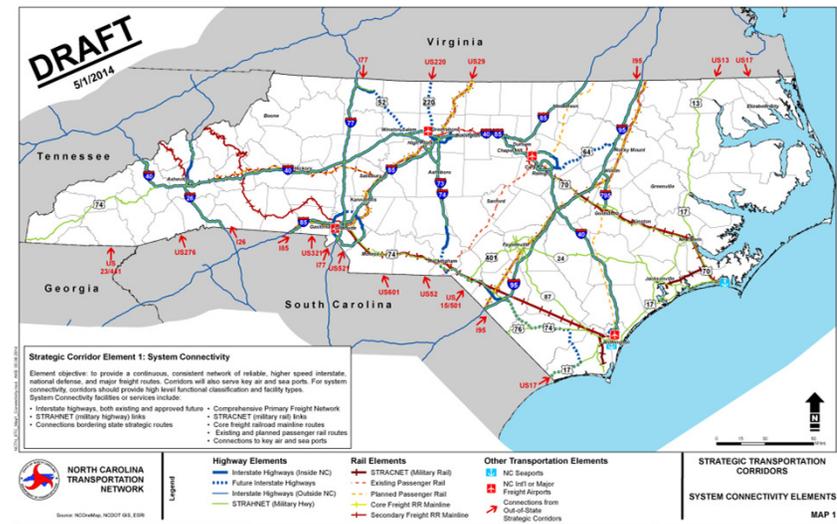
1. Define criteria reflecting STC Goals
2. Apply criteria to identify candidate corridor elements
3. Identify corridors:
 - a. Prepare composite map
 - b. Review coverage
 - c. Propose end-to-end candidate corridors

SYSTEM CONNECTIVITY OBJECTIVE

Objective

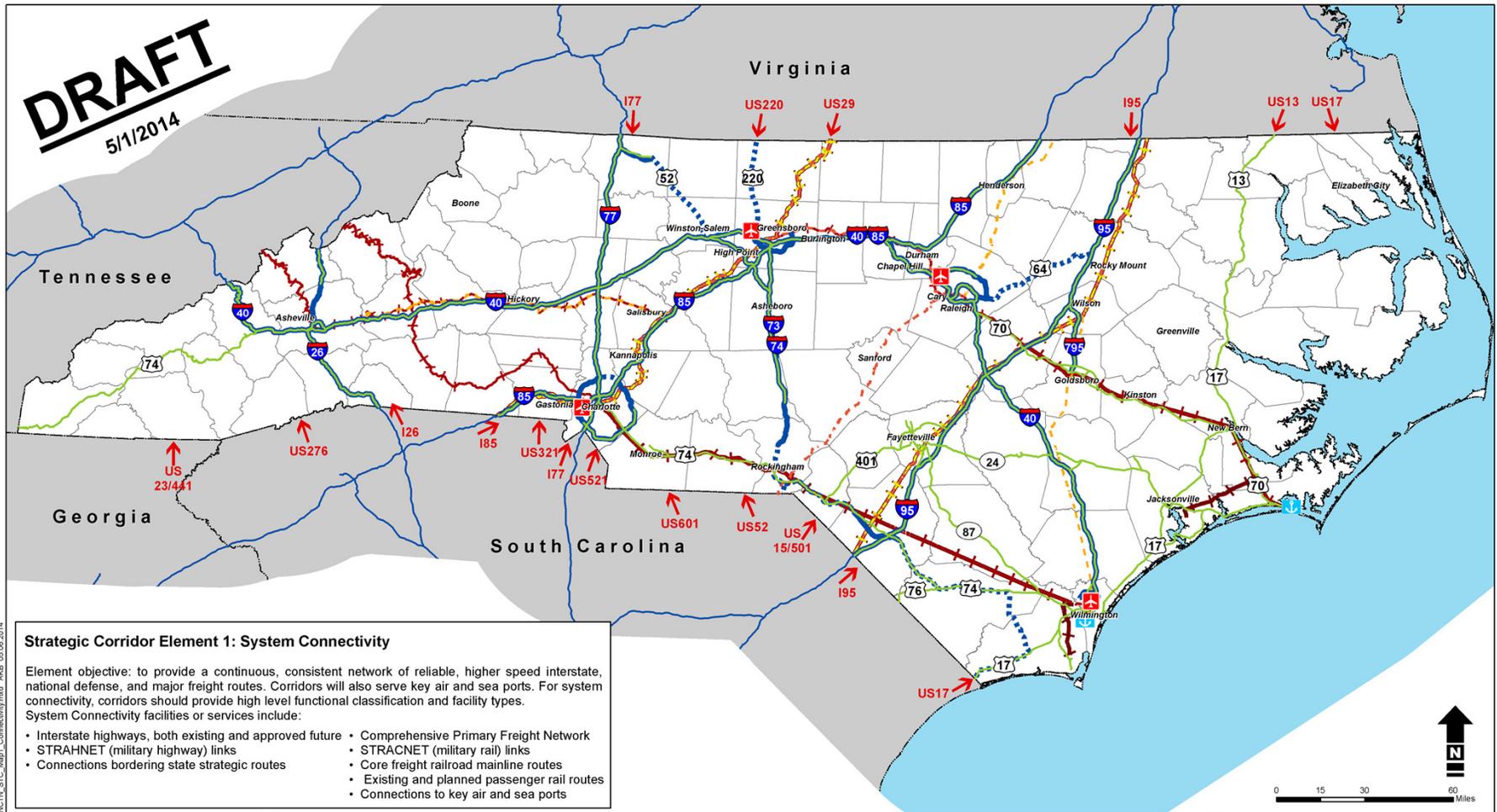
Provide a continuous, consistent network of **reliable, higher speed interstate, defense, and major freight routes.**

For system connectivity, identified statewide corridors should provide functional classification and facility type consistent with those attributes; corridors should have high capacity consistent with speed and reliability objectives.



SYSTEM CONNECTIVITY

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5/1/2014



Strategic Corridor Element 1: System Connectivity

Element objective: to provide a continuous, consistent network of reliable, higher speed interstate, national defense, and major freight routes. Corridors will also serve key air and sea ports. For system connectivity, corridors should provide high level functional classification and facility types. System Connectivity facilities or services include:

- Interstate highways, both existing and approved future
- STRAHNET (military highway) links
- Connections bordering state strategic routes
- Comprehensive Primary Freight Network
- STRACNET (military rail) links
- Core freight railroad mainline routes
- Existing and planned passenger rail routes
- Connections to key air and sea ports

NCTL_STC_Map_Connectivity.mxd ANB 05/09/2014



**NORTH CAROLINA
TRANSPORTATION
NETWORK**

Source: NCOneMap, NCDOT GIS, ESRI

Legend

Highway Elements

- Interstate Highways (Inside NC)
- Future Interstate Highways
- Interstate Highways (Outside NC)
- STRAHNET (Military Hwy)

Rail Elements

- STRACNET (Military Rail)
- Existing Passenger Rail
- Planned Passenger Rail
- Core Freight RR Mainline
- Secondary Freight RR Mainline

Other Transportation Elements

- NC Seaports
- NC Int'l or Major Freight Airports
- Connections from Out-of-State Strategic Corridors

**STRATEGIC TRANSPORTATION
CORRIDORS**

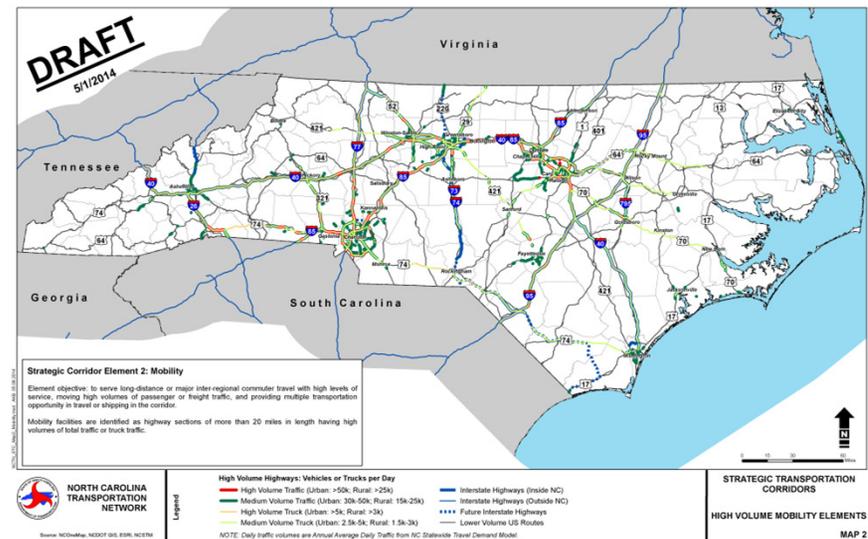
SYSTEM CONNECTIVITY ELEMENTS

MAP 1

MOBILITY OBJECTIVE

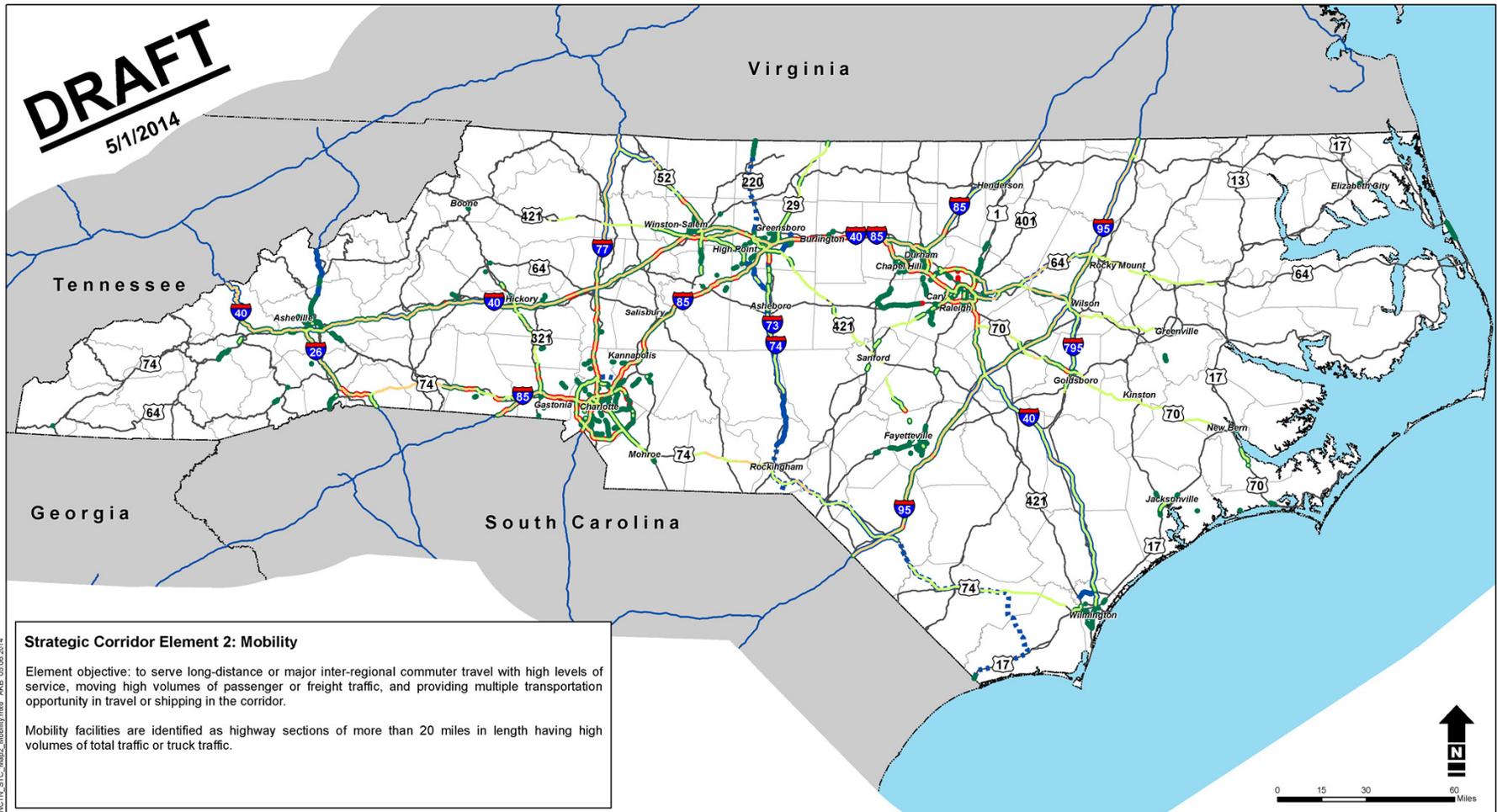
Objective

Serve longer-distance and/or major commuter travel with high levels of service, moving higher volumes of existing passenger or freight traffic, and provide multiple transportation modes or routes for the opportunity of choice and flexibility in travel or shipping in the corridor.



MOBILITY

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5/1/2014



Strategic Corridor Element 2: Mobility

Element objective: to serve long-distance or major inter-regional commuter travel with high levels of service, moving high volumes of passenger or freight traffic, and providing multiple transportation opportunity in travel or shipping in the corridor.

Mobility facilities are identified as highway sections of more than 20 miles in length having high volumes of total traffic or truck traffic.

NCTL_STC_Map2_Mobility.mxd AMB 05/02/2014



**NORTH CAROLINA
TRANSPORTATION
NETWORK**

Source: NCOneMap, NCDOT GIS, ESRI, NCSTM

Legend

High Volume Highways: Vehicles or Trucks per Day

- High Volume Traffic (Urban: >50k; Rural: >25k)
- Medium Volume Traffic (Urban: 30k-50k; Rural: 15k-25k)
- High Volume Truck (Urban: >5k; Rural: >3k)
- Medium Volume Truck (Urban: 2.5k-5k; Rural: 1.5k-3k)

- Interstate Highways (Inside NC)
- Interstate Highways (Outside NC)
- - - Future Interstate Highways
- Lower Volume US Routes

NOTE: Daily traffic volumes are Annual Average Daily Traffic from NC Statewide Travel Demand Model.

**STRATEGIC TRANSPORTATION
CORRIDORS**

HIGH VOLUME MOBILITY ELEMENTS

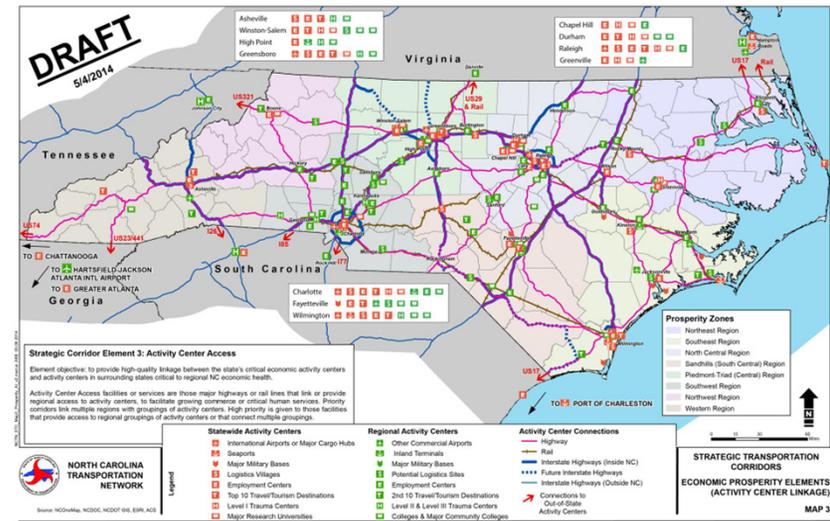


0 15 30 60 Miles

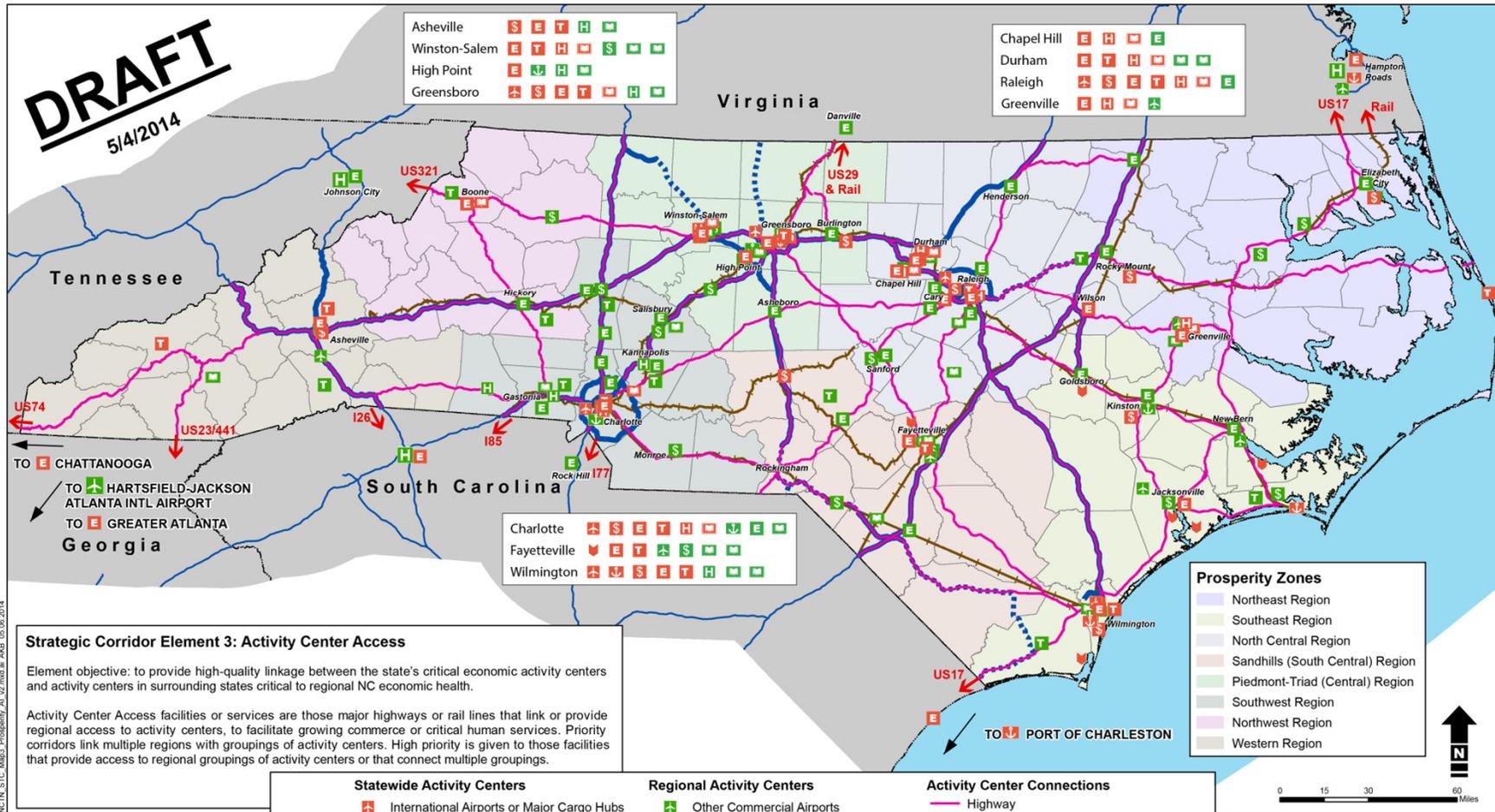
ECONOMIC PROSPERITY OBJECTIVE

Objective

Provide high-quality access between and within the state's Prosperity Zones and activity center clusters, and from nearby economic activity centers in surrounding states that are critical to regional NC economic health.



ACTIVITY CENTER ACCESS



Statewide Activity Centers

- International Airports or Major Cargo Hubs
- Seaports
- Major Military Bases
- Logistics Villages
- Employment Centers
- Top 10 Travel/Tourism Destinations
- Level I Trauma Centers
- Major Research Universities

Regional Activity Centers

- Other Commercial Airports
- Inland Terminals
- Major Military Bases
- Potential Logistics Sites
- Employment Centers
- 2nd 10 Travel/Tourism Destinations
- Level II & Level III Trauma Centers
- Colleges & Major Community Colleges

Activity Center Connections

- Highway
- Rail
- Interstate Highways (Inside NC)
- Future Interstate Highways
- Interstate Highways (Outside NC)
- Connections to Out-of-State Activity Centers

Legend



**NORTH CAROLINA
TRANSPORTATION
NETWORK**

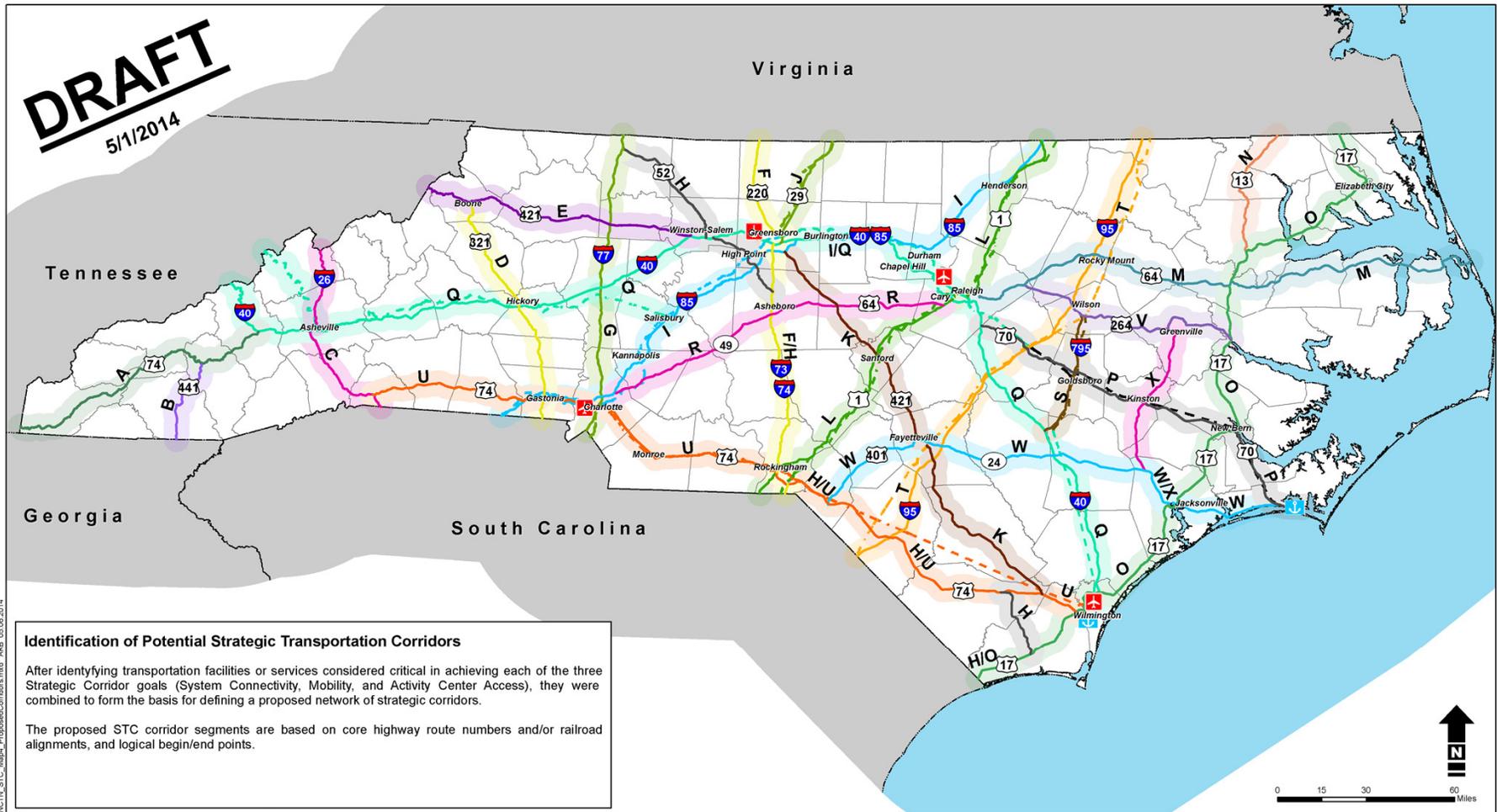
Source: NCEMap, NCDOT, NCDOT GIS, ESRI, ACS

**STRATEGIC TRANSPORTATION
CORRIDORS
ECONOMIC PROSPERITY ELEMENTS
(ACTIVITY CENTER LINKAGE)**

MAP 3

END-TO-END CORRIDORS

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5/1/2014



Identification of Potential Strategic Transportation Corridors

After identifying transportation facilities or services considered critical in achieving each of the three Strategic Corridor goals (System Connectivity, Mobility, and Activity Center Access), they were combined to form the basis for defining a proposed network of strategic corridors.

The proposed STC corridor segments are based on core highway route numbers and/or railroad alignments, and logical begin/end points.

NCTL_STC_Map_ProposedCorridors.mxd ANB 05/08/2014



**NORTH CAROLINA
TRANSPORTATION
NETWORK**

Source: NCOneMap, NCDOT GIS, ESRI

Proposed STCs (solid = highway; dashed = rail)			
A (US74)	F (I73/Future I73)	K (US421/NC87)	P (US70)
B (US441)	G (I77)	L (US1)	Q (I40)
C (I26/US23)	H (I74/Future I74)	M (I495/US64)	R (US64/NC49)
D (US321)	I (I85)	N (US13)	S (I795/US117)
E (US421W)	J (US29N)	O (US17)	T (I95)
			U (US74W/US74E/Future I74)
			V (US264)
			W (US401/NC24/US258)
			X (US258/NC11)

**STRATEGIC TRANSPORTATION
CORRIDORS**

- NC Seaports
- NC Int'l or Major Freight Airports

PROPOSED CORRIDORS



*Questions or further
direction?*

STRATEGIC CORRIDORS STRATIFICATION

STC STRATIFICATION

Objective: stratify identified STCs into two groups representing Statewide and Regional importance

Process:

1. Rate individual corridors: score corridors applying criteria supporting strategic corridor goals and objectives

Scale of 1 to 10 (1 reflecting low conformance and 10 reflecting high conformance)

2. Review scoring results
3. Rank corridors based on total scores;
 - Statewide designation - corridors above median score
 - Regional designation - corridors below median

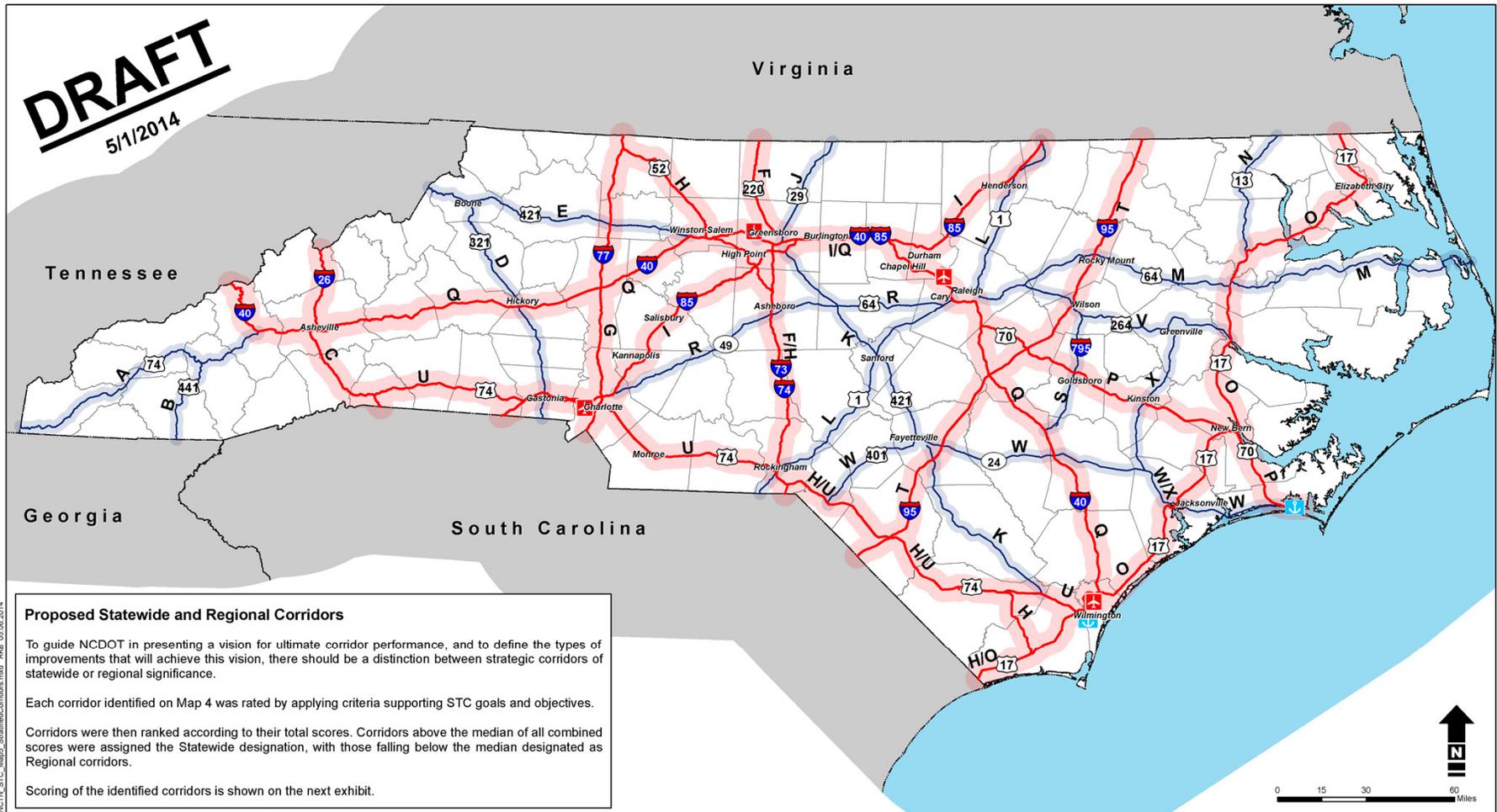
SCORING SHEET

Corridors				Corridor Scoring			TOTAL CORRIDOR SCORE
ID	Name	Begin Point	End Point	System Connectivity	Mobility	Economic Prosperity	
I	I-85	SC State Line	VA State Line	10	8	8	26
Q	I-40	TN State Line	Wilmington	7	9	10	26
T	I-95	SC State Line	VA State Line	9	9	7	25
U	US 74 W/US 74 E /Future I-74	I-26	Wilmington	7	6	7	20
G	I-77	SC State Line	VA State Line	4	7	7	18
H	I-74/Future I-74	I-77	SC State Line (Brunswick Co.)	4	6	8	18
C	I-26/US 23	GA State Line	TN State Line	4	6	7	17
P	US 70	I-40 (Raleigh)	Morehead City Port	3	3	9	15
O	US 17	SC State Line	VA State Line	4	2	8	14
F	I-73/Future I-73	SC State Line	VA State Line	4	4	6	14
M	I-495/US 64	I-40 (Raleigh)	Outer Banks	4	3	6	13
K	US 421/NC 87	I-85 (Greensboro)	US 74	5	3	5	13
L	US 1	SC State Line	VA State Line	3	3	6	12
W	US 401/NC 24/US 258	I-74	US 70 (Morehead City)	4	2	6	12
J	US 29 N	VA State Line	Greensboro	6	4	2	12
S	I-795/US 117	I-95 (Wilson)	I-40	3	4	4	11
V	US 264	US 64	US 17 (Washington)	1	3	7	11
D	US 321	SC State Line	TN State Line	2	3	6	11
A	US 74	TN State Line	I-26 (Asheville)	4	1	6	11
R	US 64/NC 49	I-40 (Raleigh)	I-85 (Charlotte)	4	1	5	10
X	US 258/NC 11	US 17 (Jacksonville)	US 264 (Greenville)	2	1	5	8
E	US 421 W	TN State Line	I-40 (Winston-Salem)	2	1	5	8
B	US 441	GA State Line	US 74	2	1	4	7
N	US 13	US 17	VA State Line	4	1	2	7

Statewide Corridors
Regional Corridors

STRATIFIED CORRIDORS

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5/1/2014



Proposed Statewide and Regional Corridors

To guide NCDOT in presenting a vision for ultimate corridor performance, and to define the types of improvements that will achieve this vision, there should be a distinction between strategic corridors of statewide or regional significance.

Each corridor identified on Map 4 was rated by applying criteria supporting STC goals and objectives.

Corridors were then ranked according to their total scores. Corridors above the median of all combined scores were assigned the Statewide designation, with those falling below the median designated as Regional corridors.

Scoring of the identified corridors is shown on the next exhibit.

NCTL_STC_Map5_StratifiedCorridors.mxd ANG 05/06/2014



**NORTH CAROLINA
TRANSPORTATION
NETWORK**

Source: NCOneMap, NCDOT GIS, ESRI

Legend

- Statewide Proposed STCs
- Regional Proposed STCs

- NC Seaports
- NC Int'l or Major Freight Airports

**STRATEGIC TRANSPORTATION
CORRIDORS**

STRATIFIED CORRIDORS

MAP 5

NEXT STEPS

- Revise maps, considering Regional Meeting input
- Prepare accompanying STC policy for Board of Transportation consideration

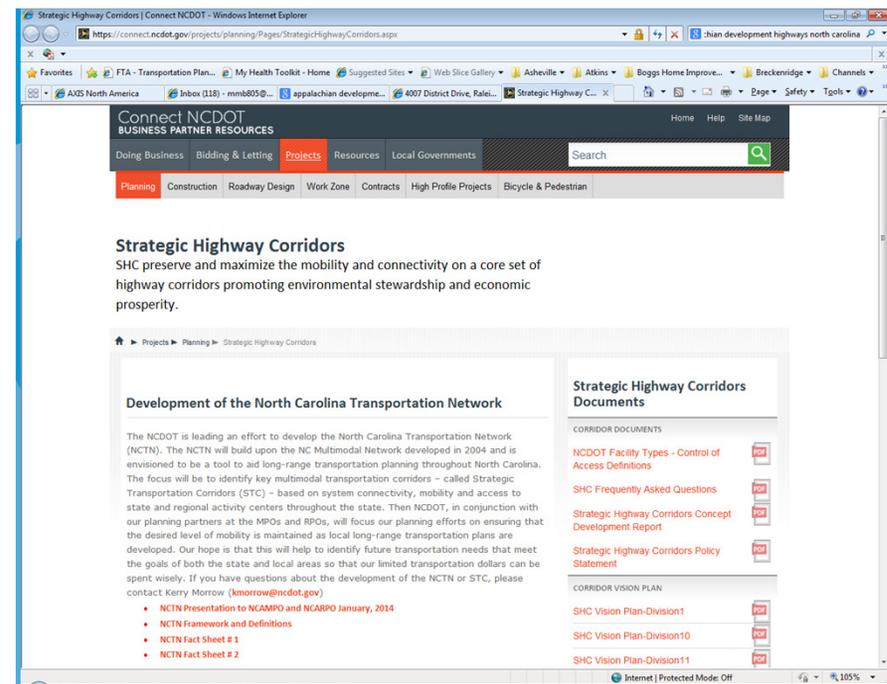
Fall 2014

- Board of Transportation approval of strategic corridors policy and corridor maps.

COMMENTS

- Written comments are welcomed.
- Leave them in the comment box or mail them back to us.

For more information, see <https://connect.ncdot.gov/projects/planning/Pages/StrategicHighwayCorridors.aspx>



Thank you. Further Questions?

Kerry Morrow, NCDOT kmorrow@ncdot.gov

Mark Boggs, PE, Atkins mark.boggs@atkinsglobal.com