10. EVACUATION ROUTES

Evacuation routes are comprised of two distinct components:

- Routing from an ERPA being evacuated to the boundary of the Evacuation Region and thence out of the Emergency Planning Zone (EPZ).

- Routing of evacuees from the EPZ boundary to reception centers.

Evacuees should be routed within the EPZ in such a way as to *minimize their exposure to risk*. This primary requirement is met by routing traffic to move away from the location of the Lee Nuclear Station, to the extent practicable, and by delineating evacuation routes that expedite the movement of evacuating vehicles. This latter objective is addressed by developing evacuation routes to achieve a balancing of traffic demand relative to the available highway capacity to the extent possible, subject to satisfying the primary requirement noted above. This is achieved by carefully specifying candidate destinations for all origin centroids where evacuation trips are generated, and applying the TRAD model effectively. See Appendices A-D for further discussion.

The routing of evacuees from the EPZ boundary to reception centers should be responsive to several considerations:

- Minimize the amount of travel outside the EPZ, from the points where these routes cross the EPZ boundary, to the reception centers.

- Relate the anticipated volume of traffic destined to the reception center, to the capacity of the reception center facility.

Figure 10-1 presents a map showing the proposed general population reception centers. Plans for reception centers must be finalized by all parties prior to operational licensing of the facility.

The major evacuation routes for the four quadrants of the EPZ are presented in Figures 10-2 through 10-5.

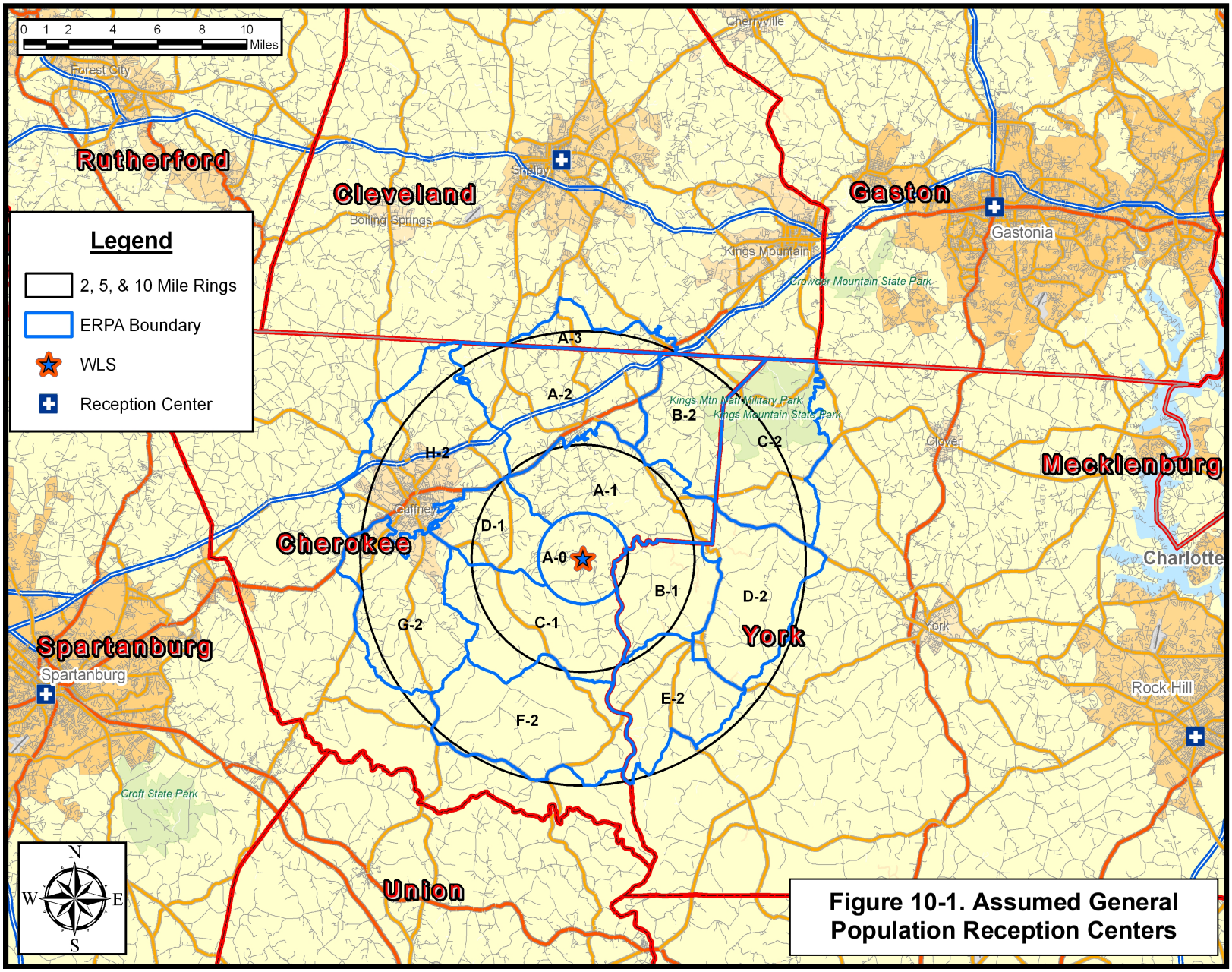

Figure 10-1. Assumed General Population Reception Centers

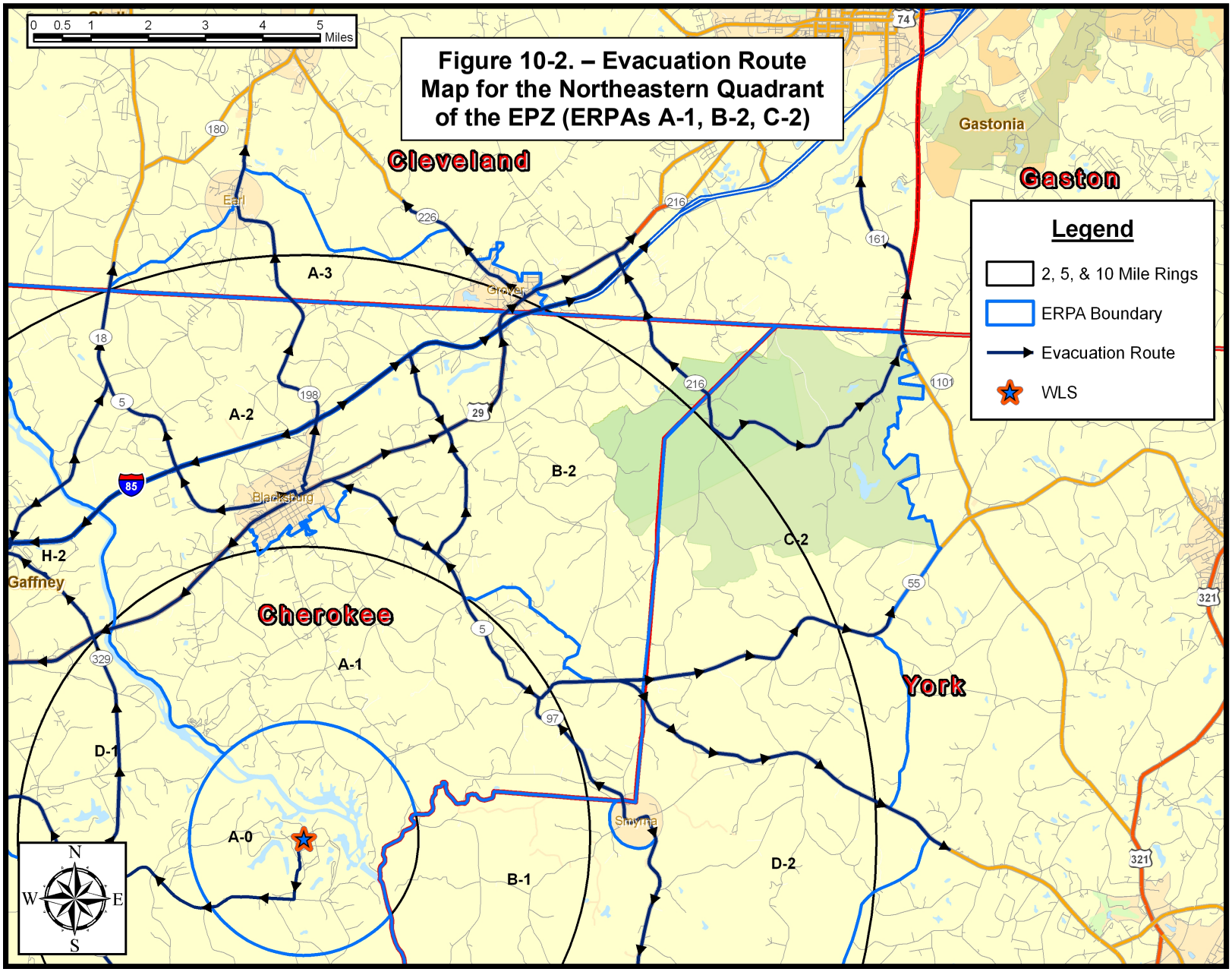
Figure 10-2. – Evacuation Route Map for the Northeastern Quadrant of the EPZ (ERPAs A-1, B-2, C-2)
0 0.5 1 2 3 4 5 Miles
Cleveland
Gaston
Cherokee
York
Gastonia
Earl
Grover
Blacksburg
Gaffney
Smyrna
A-0
A-1
A-2
A-3
B-1
B-2
C-2
D-1
D-2
H-2
Legend
2, 5, & 10 Mile Rings
ERPA Boundary
Evacuation Route
WLS
N
S
E
W

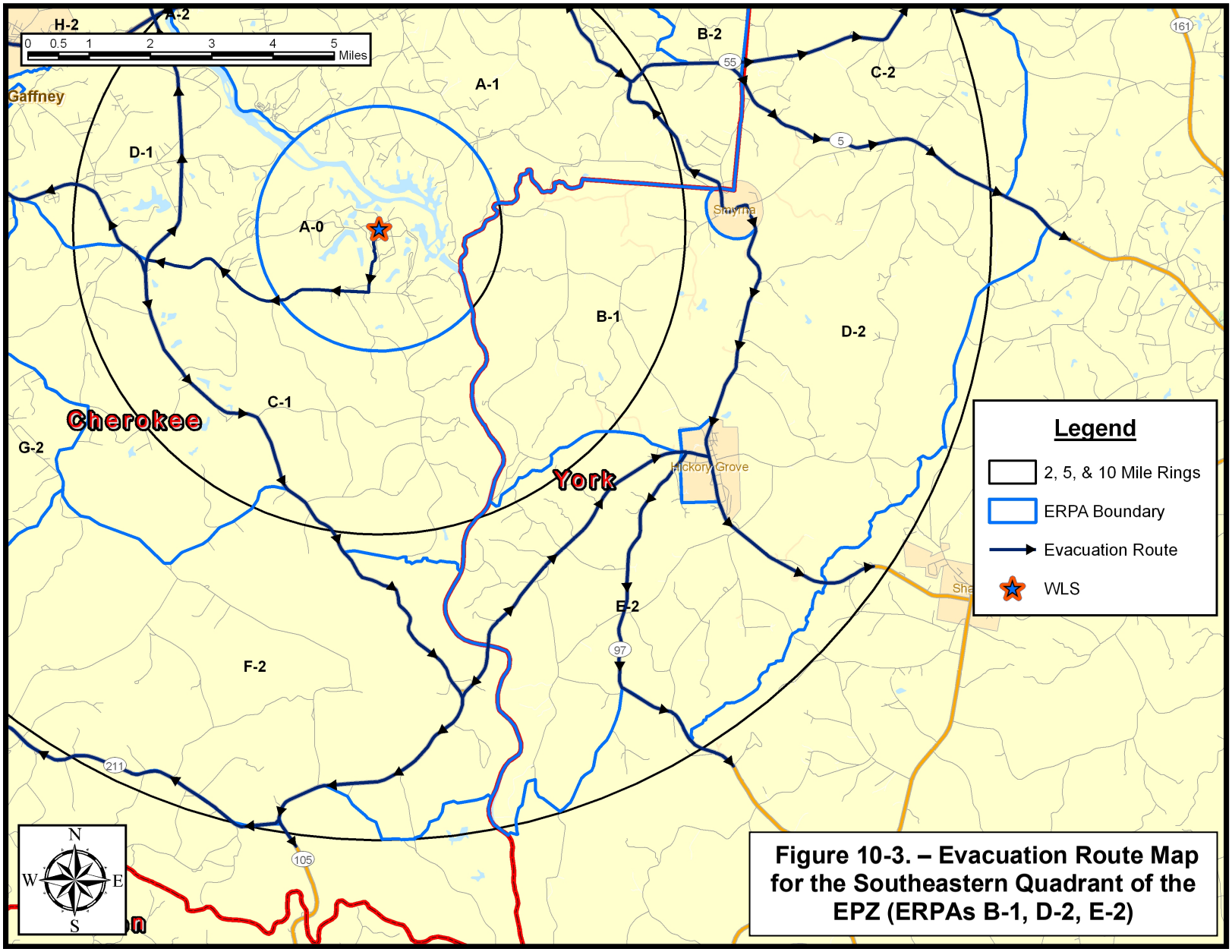

Figure 10-3. – Evacuation Route Map for the Southeastern Quadrant of the EPZ (ERPAs B-1, D-2, E-2)

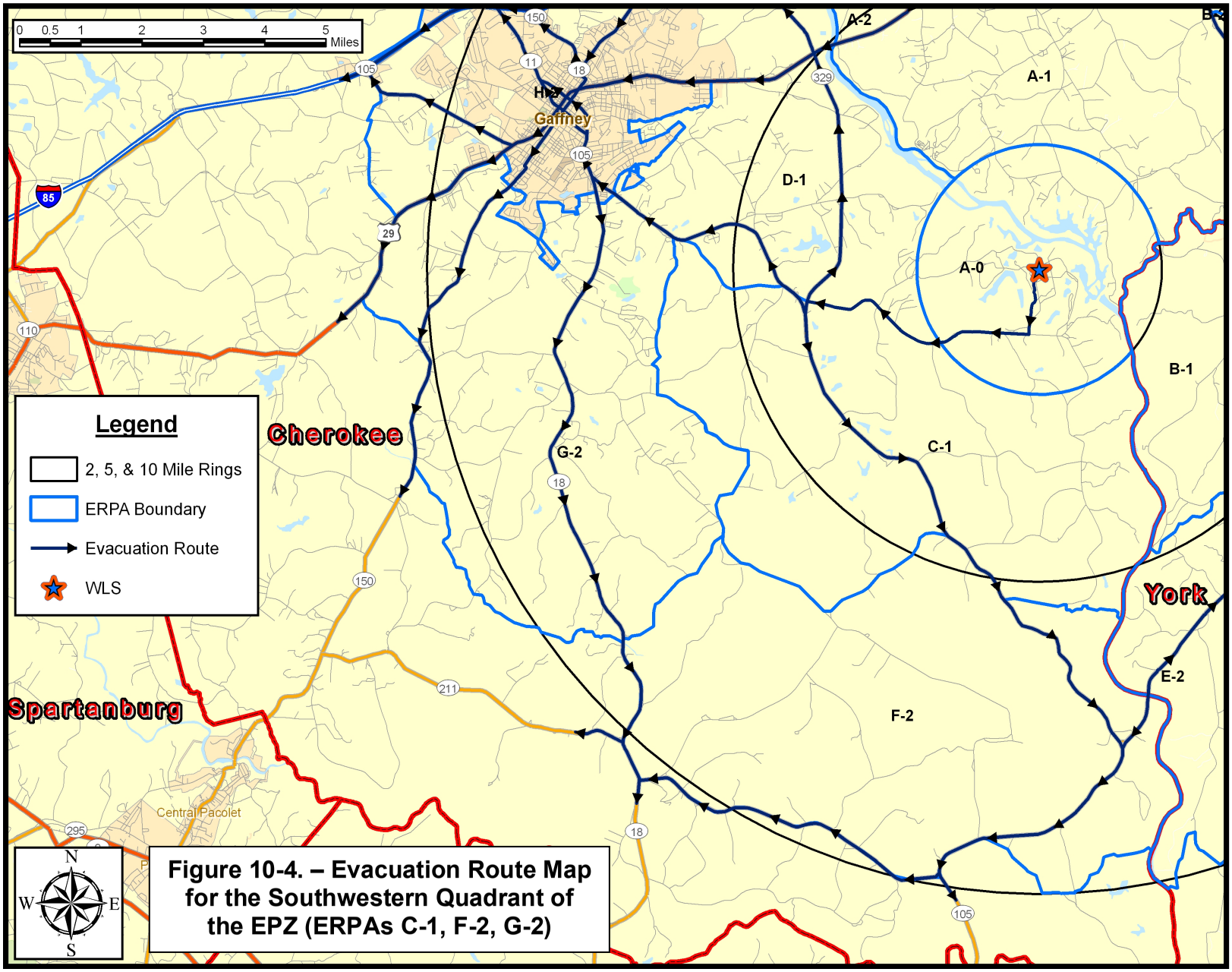

Figure 10-4. – Evacuation Route Map for the Southwestern Quadrant of the EPZ (ERPAs C-1, F-2, G-2)

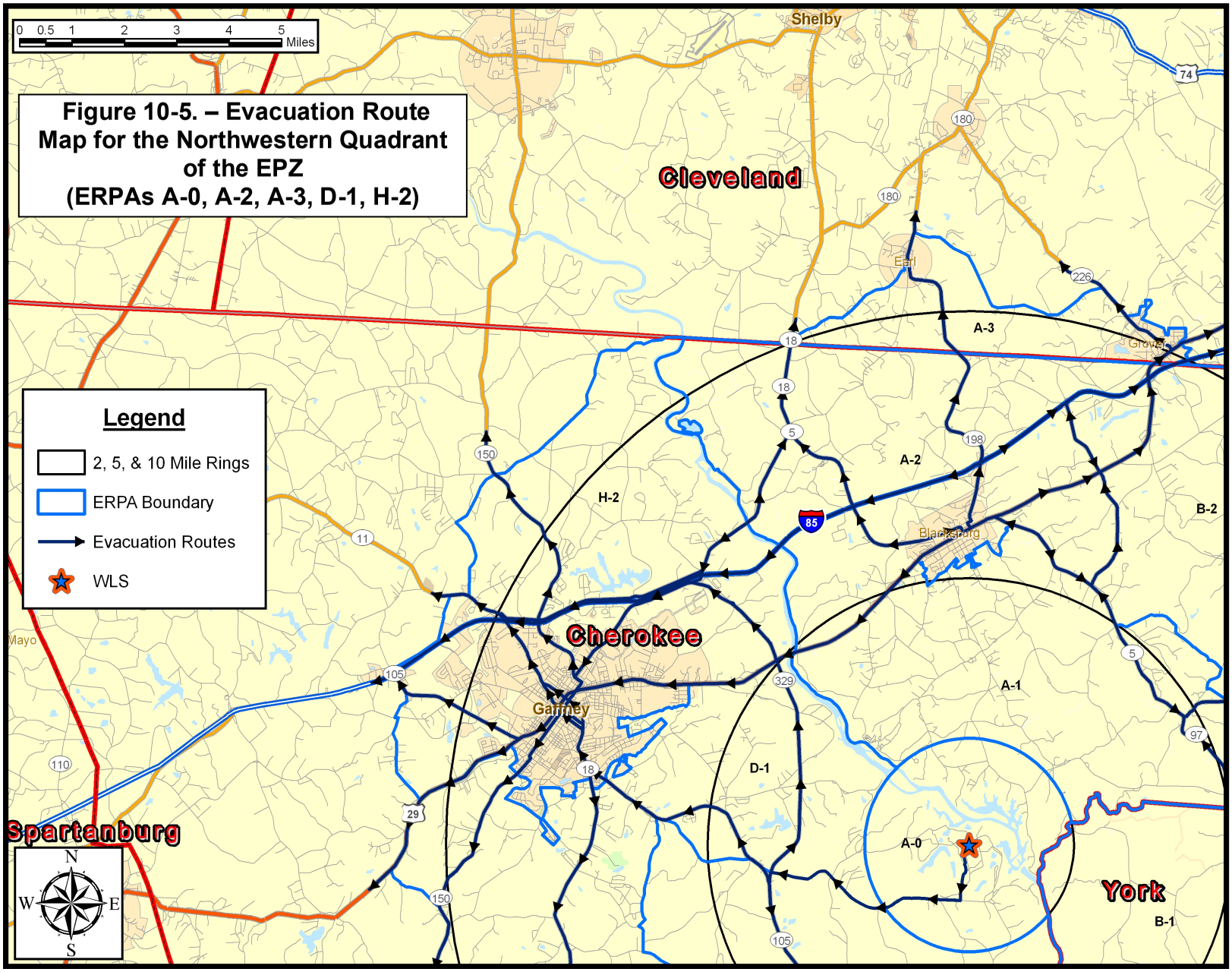
Figure 10-5. – Evacuation Route Map for the Northwestern Quadrant of the EPZ (ERPAs A-0, A-2, A-3, D-1, H-2)
0 0.5 1 2 3 4 5 Miles
Legend
2, 5, & 10 Mile Rings
ERPA Boundary
Evacuation Routes
WLS
Cleveland
Shelby
Cherokee
Gaffney
Spartanburg
York
Mayo
Earl
Grover
Blacksburg
A-0
A-1
A-2
A-3
B-1
B-2
D-1
H-2
N
S
E
W