

FIRE AND EMS STAFFING AND OPERATIONS STUDY

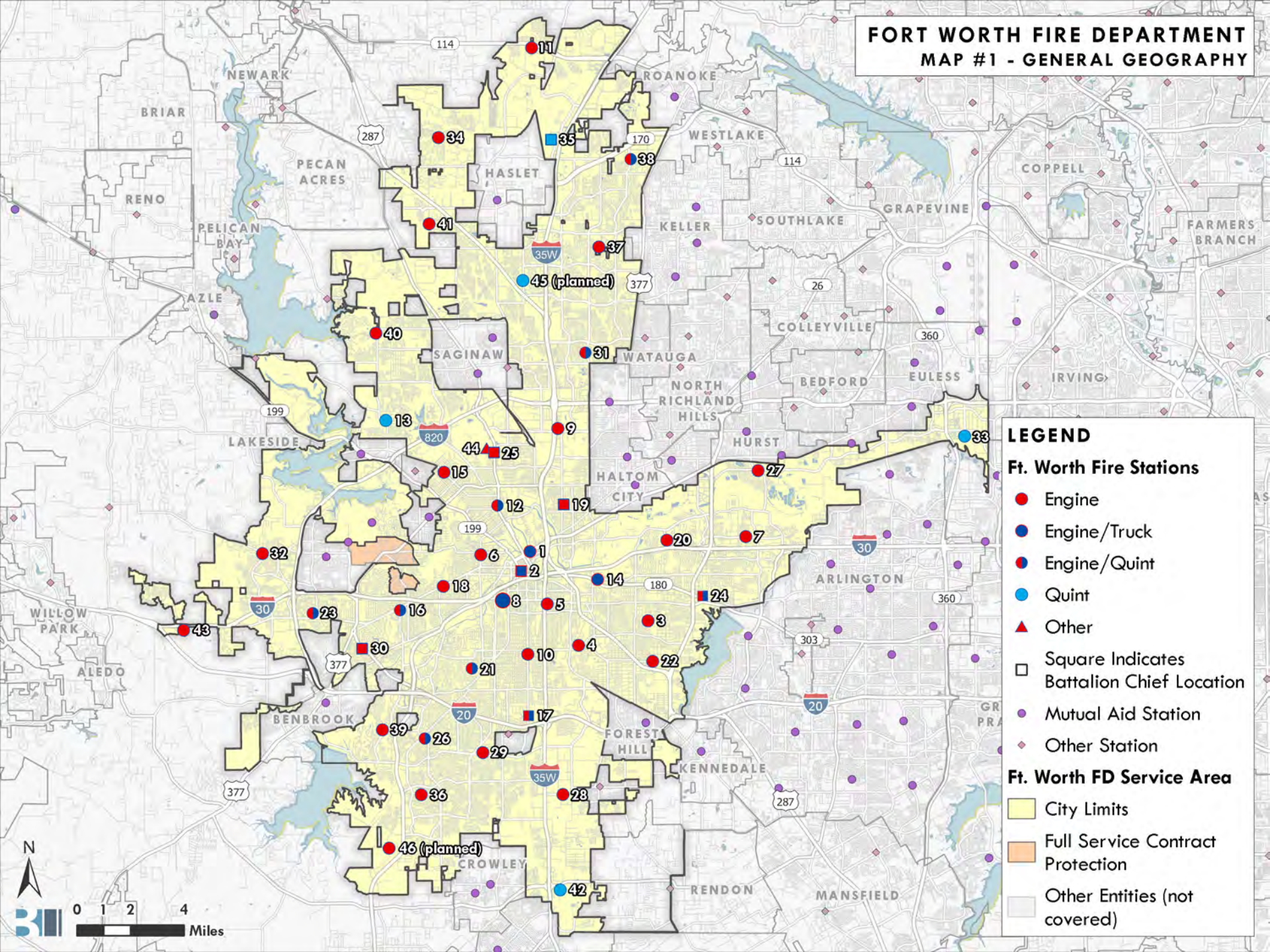
VOLUME 2 OF 3: MAP ATLAS

CITY OF FORT WORTH, TX

AUGUST 23, 2022

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FORT WORTH FIRE DEPARTMENT MAP #1 - GENERAL GEOGRAPHY



LEGEND

Ft. Worth Fire Stations

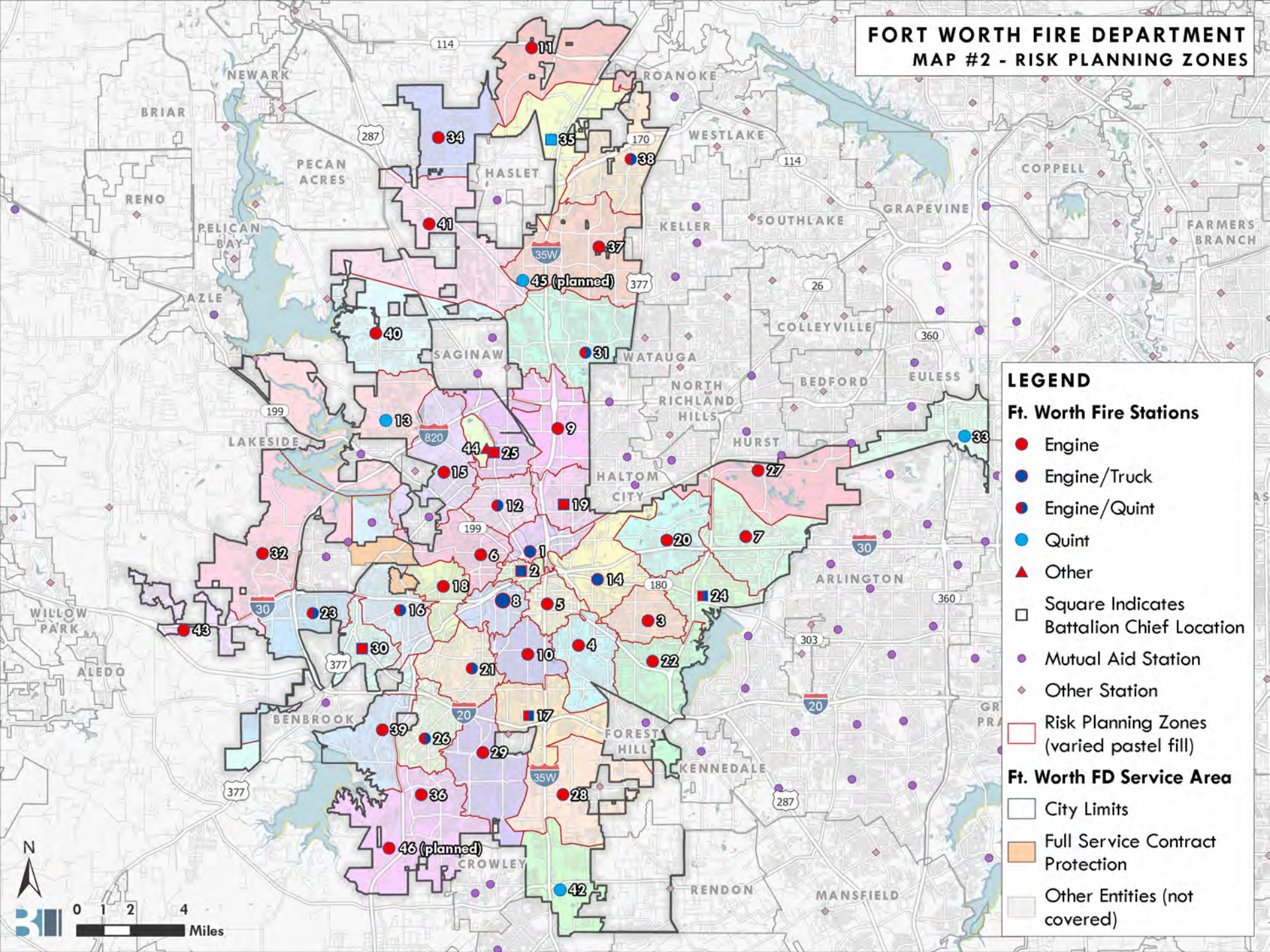
- Engine
- Engine/Truck
- Engine/Quint
- Quint
- ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station

Ft. Worth FD Service Area

- City Limits
- Full Service Contract Protection
- Other Entities (not covered)



FORT WORTH FIRE DEPARTMENT MAP #2 - RISK PLANNING ZONES



LEGEND

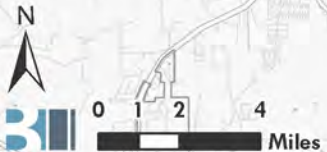
Ft. Worth Fire Stations

- Engine
- Engine/Truck
- Engine/Quint
- Quint
- ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station

Risk Planning Zones (varied pastel fill)

Ft. Worth FD Service Area

- City Limits
- Full Service Contract Protection
- Other Entities (not covered)



FORT WORTH FIRE DEPARTMENT MAP #2A - POPULATION DENSITY

LEGEND

Population Density (per square mile)

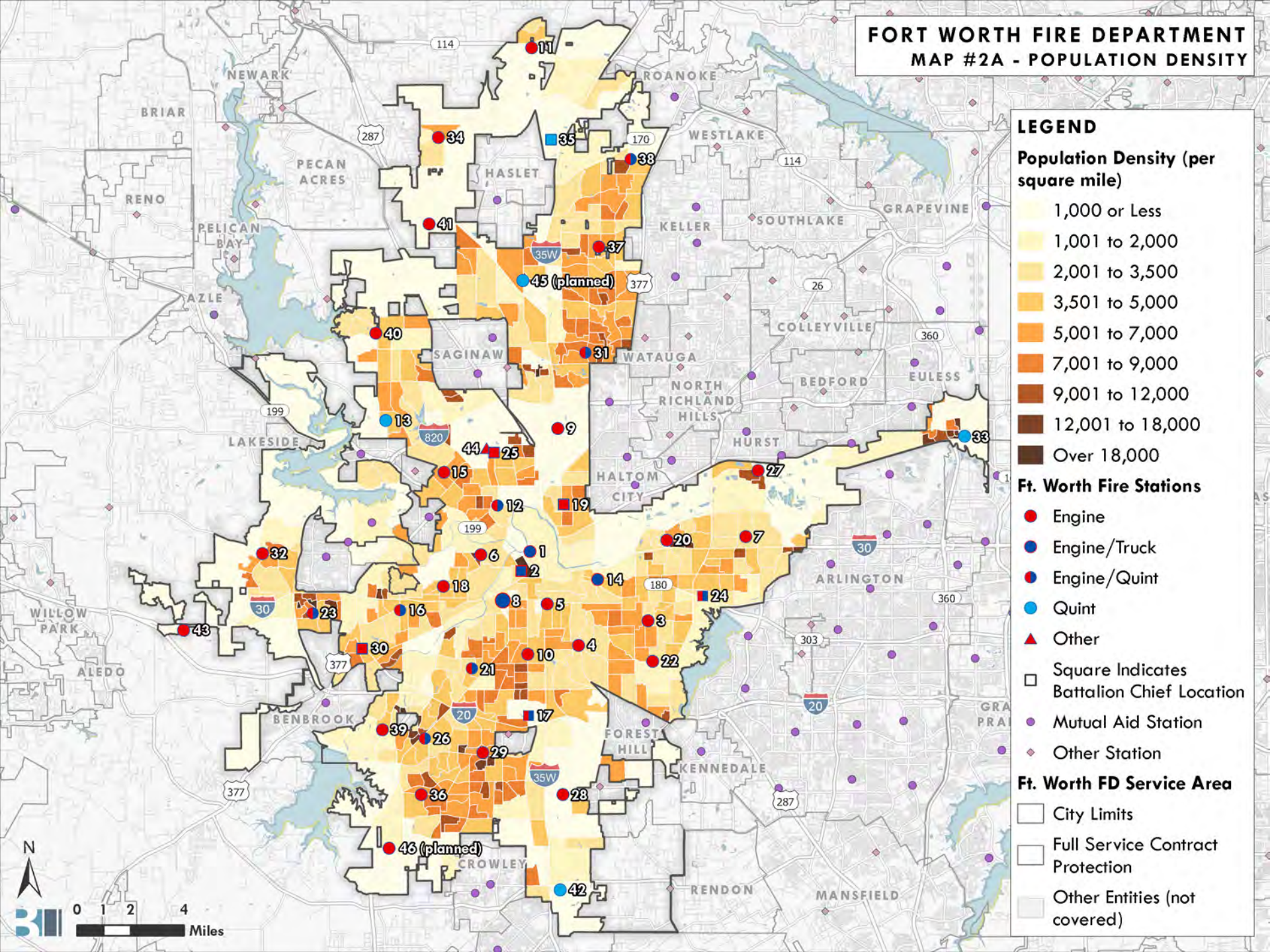
- 1,000 or Less
- 1,001 to 2,000
- 2,001 to 3,500
- 3,501 to 5,000
- 5,001 to 7,000
- 7,001 to 9,000
- 9,001 to 12,000
- 12,001 to 18,000
- Over 18,000

Ft. Worth Fire Stations

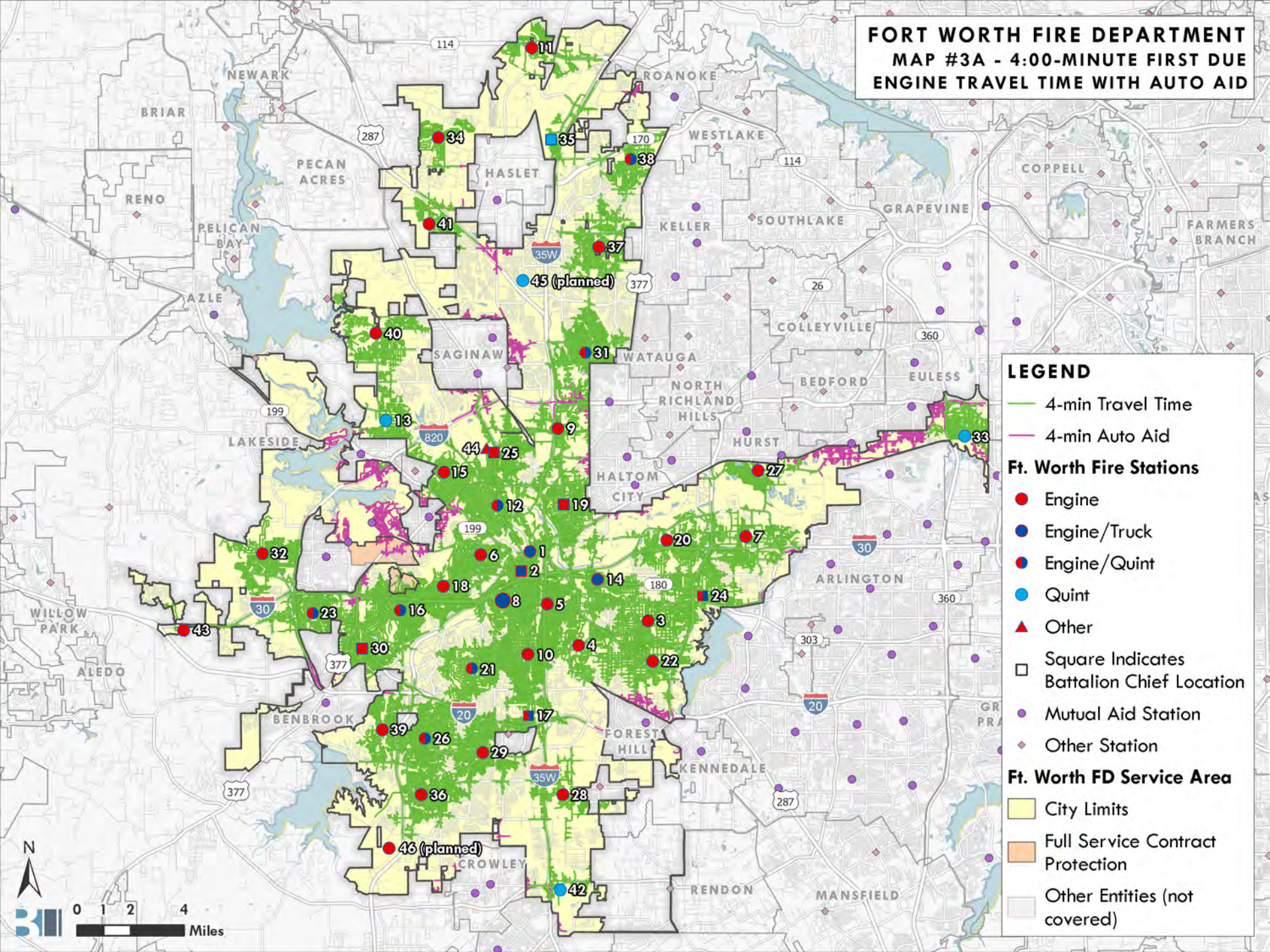
- Engine
- Engine/Truck
- Engine/Quint
- Quint
- ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station

Ft. Worth FD Service Area

- City Limits
- Full Service Contract Protection
- Other Entities (not covered)



**FORT WORTH FIRE DEPARTMENT
MAP #3A - 4:00-MINUTE FIRST DUE
ENGINE TRAVEL TIME WITH AUTO AID**



LEGEND

- 4-min Travel Time
- 4-min Auto Aid

Ft. Worth Fire Stations

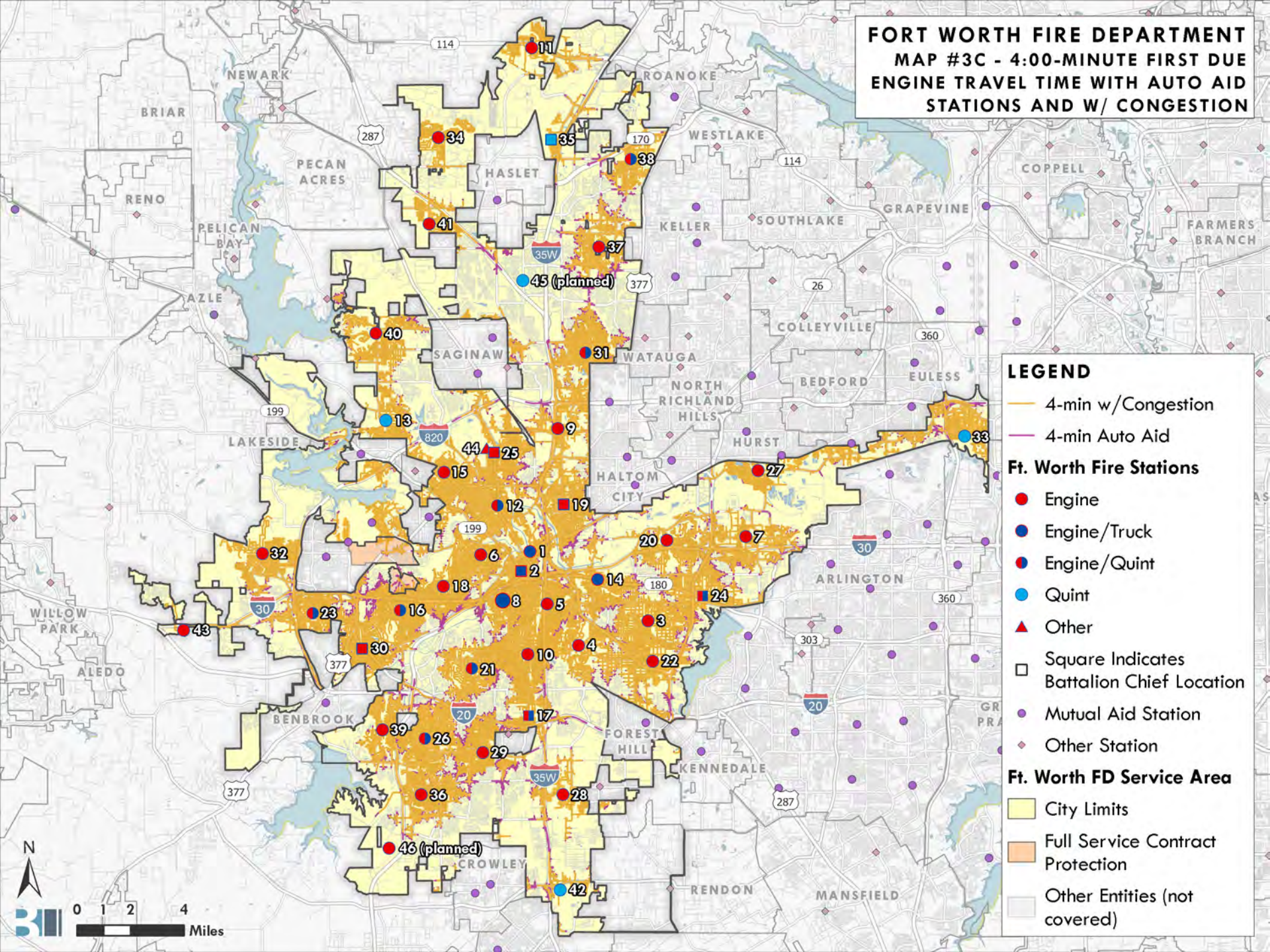
- Engine
- Engine/Truck
- Engine/Quint
- Quint
- ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station

Ft. Worth FD Service Area

- City Limits
- Full Service Contract Protection
- Other Entities (not covered)



**FORT WORTH FIRE DEPARTMENT
MAP #3C - 4:00-MINUTE FIRST DUE
ENGINE TRAVEL TIME WITH AUTO AID
STATIONS AND W/ CONGESTION**



LEGEND

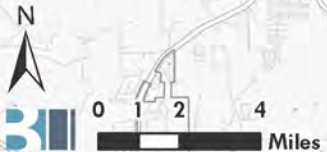
- 4-min w/Congestion
- 4-min Auto Aid

Ft. Worth Fire Stations

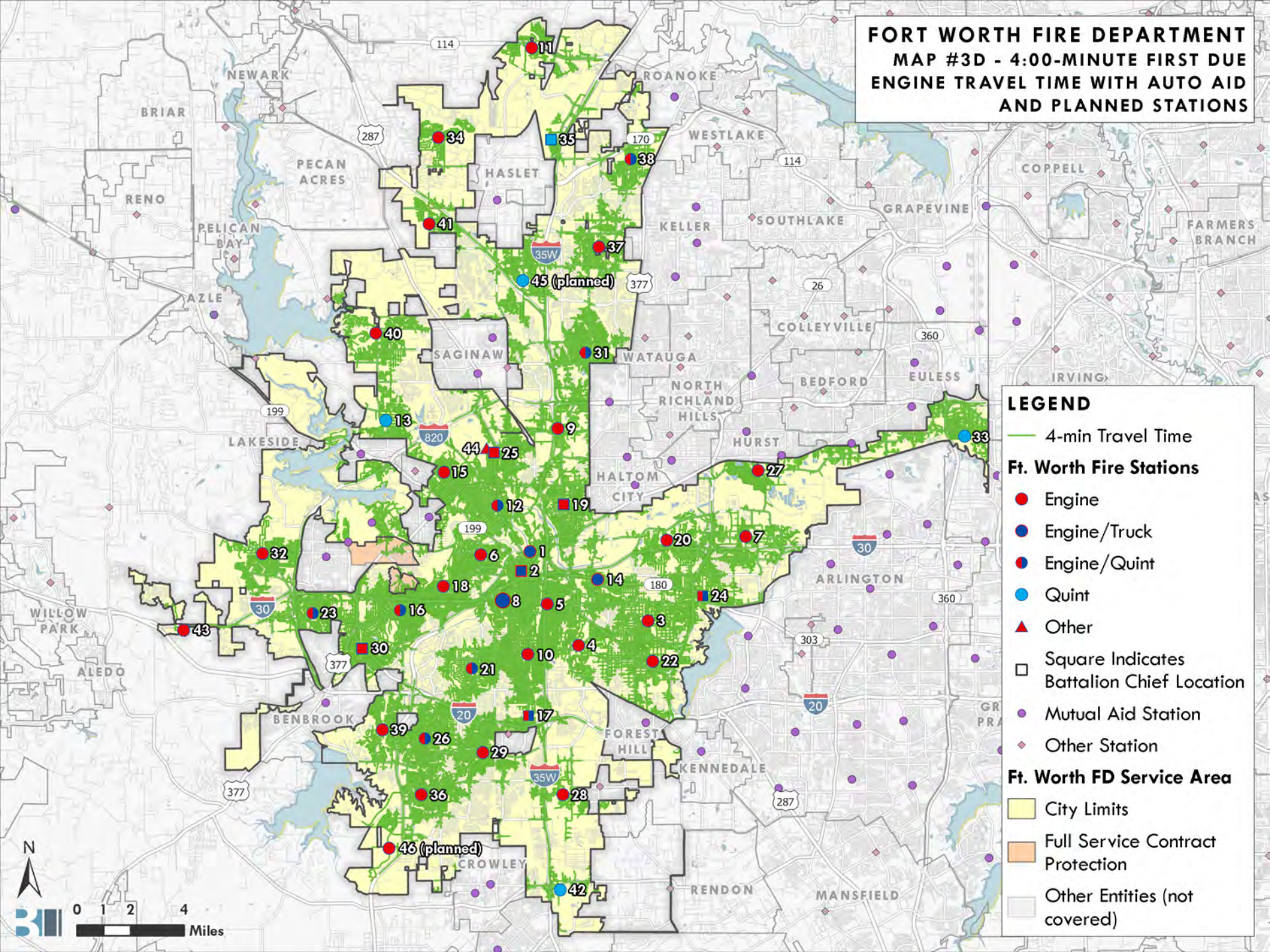
- Engine
- Engine/Truck
- Engine/Quint
- Quint
- ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station

Ft. Worth FD Service Area

- City Limits
- Full Service Contract Protection
- Other Entities (not covered)



**FORT WORTH FIRE DEPARTMENT
MAP #3D - 4:00-MINUTE FIRST DUE
ENGINE TRAVEL TIME WITH AUTO AID
AND PLANNED STATIONS**

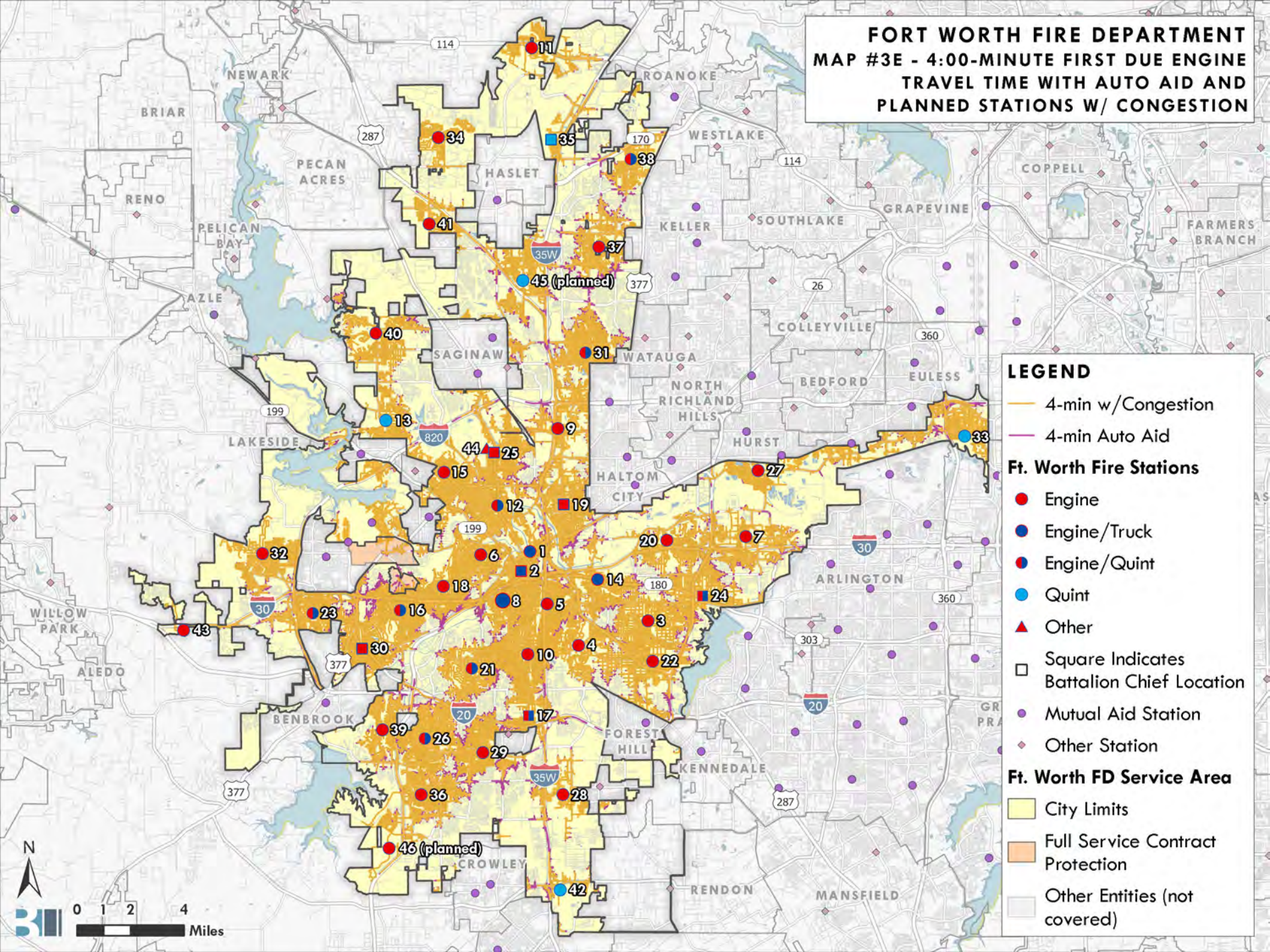


LEGEND

- 4-min Travel Time
- Ft. Worth Fire Stations**
 - Engine
 - Engine/Truck
 - ● Engine/Quint
 - Quint
 - ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station
- Ft. Worth FD Service Area**
 - City Limits
 - Full Service Contract Protection
 - Other Entities (not covered)



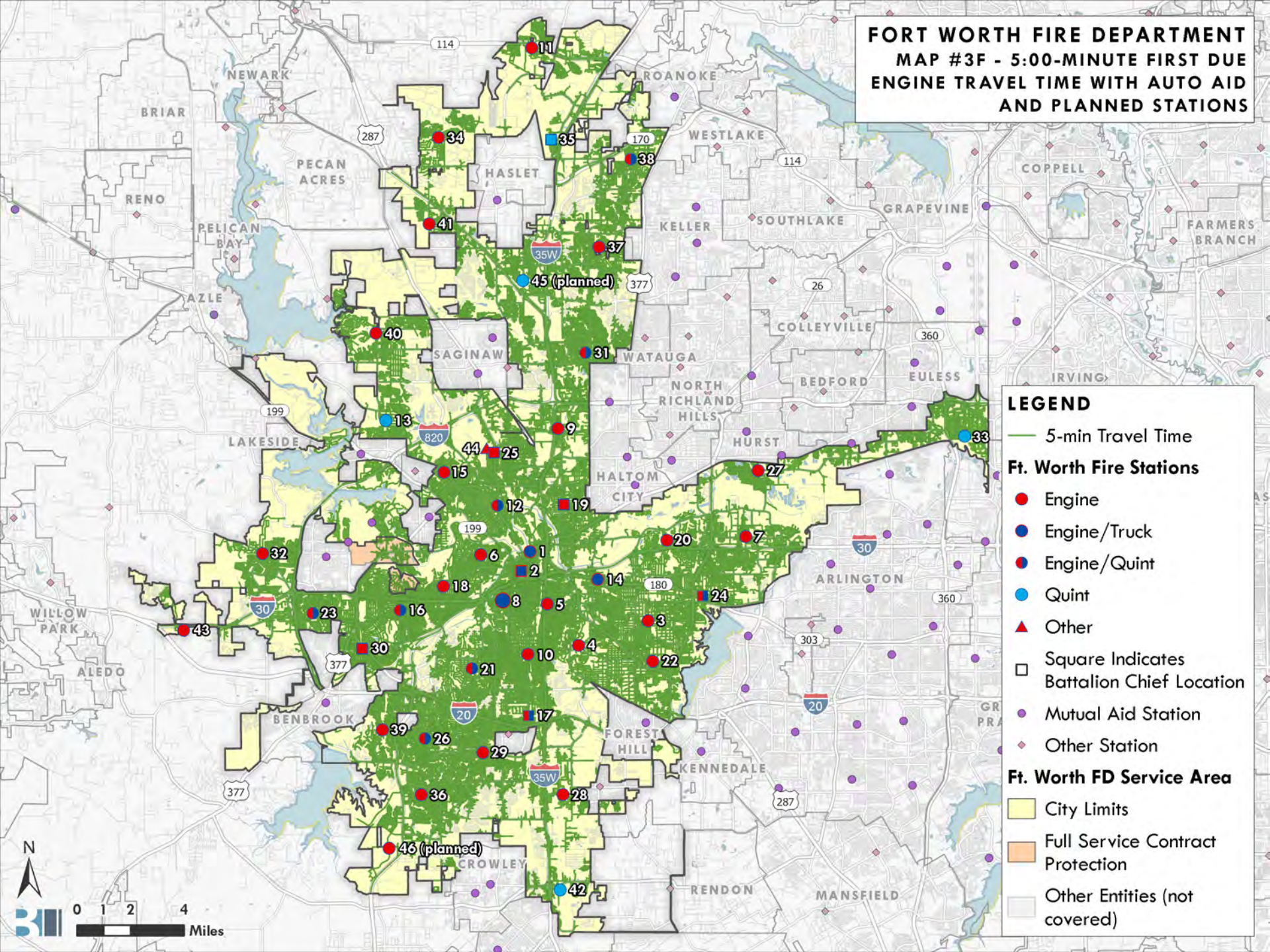
**FORT WORTH FIRE DEPARTMENT
MAP #3E - 4:00-MINUTE FIRST DUE ENGINE
TRAVEL TIME WITH AUTO AID AND
PLANNED STATIONS W/ CONGESTION**



- LEGEND**
- 4-min w/Congestion
 - 4-min Auto Aid
- Ft. Worth Fire Stations**
- Engine
 - Engine/Truck
 - Engine/Quint
 - Quint
 - ▲ Other
 - Square Indicates Battalion Chief Location
 - Mutual Aid Station
 - ◆ Other Station
- Ft. Worth FD Service Area**
- City Limits
 - Full Service Contract Protection
 - Other Entities (not covered)



**FORT WORTH FIRE DEPARTMENT
MAP #3F - 5:00-MINUTE FIRST DUE
ENGINE TRAVEL TIME WITH AUTO AID
AND PLANNED STATIONS**

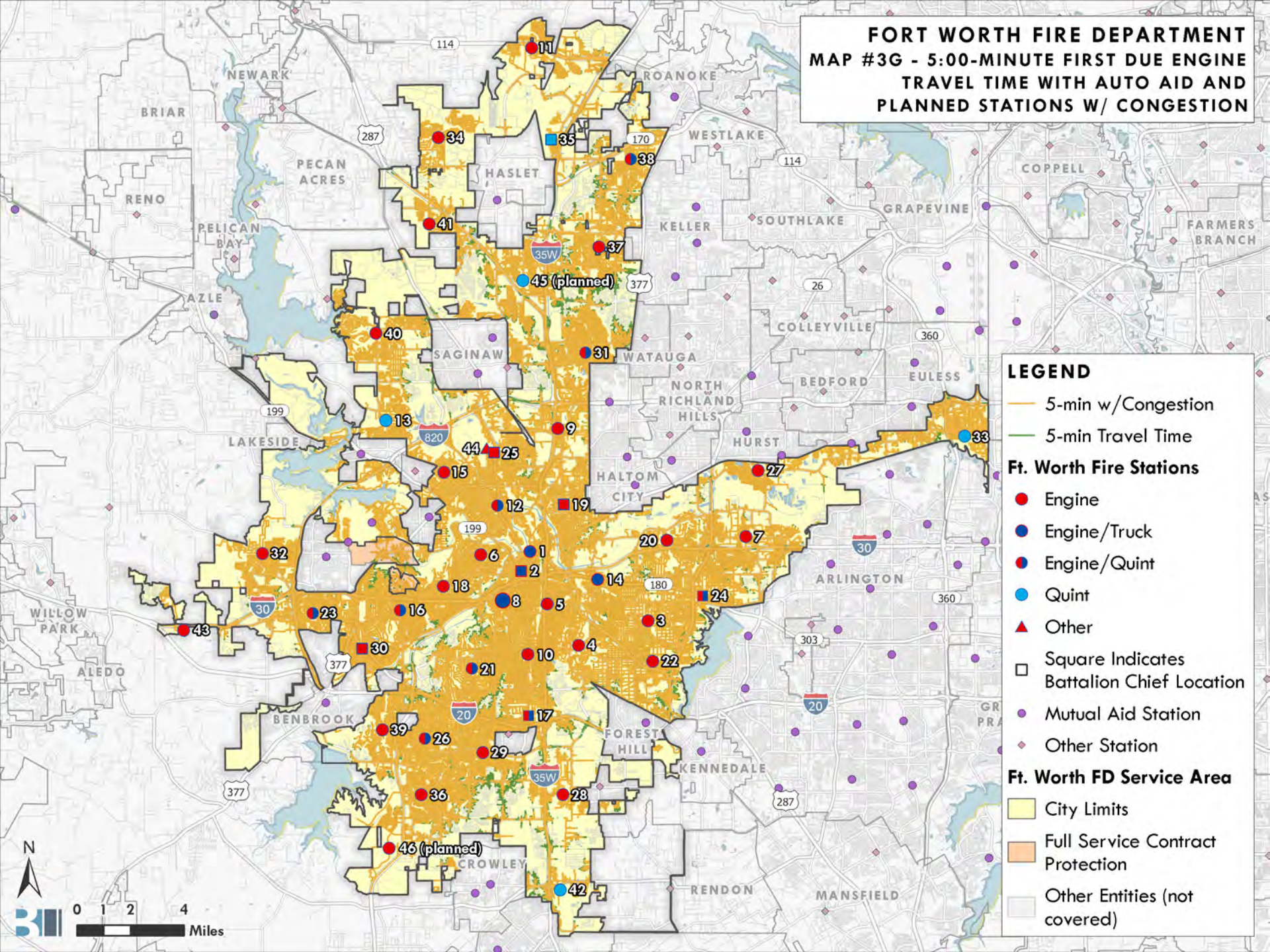


LEGEND

- 5-min Travel Time
- Ft. Worth Fire Stations**
- Engine
- Engine/Truck
- Engine/Quint
- Quint
- ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station
- Ft. Worth FD Service Area**
- City Limits
- Full Service Contract Protection
- Other Entities (not covered)



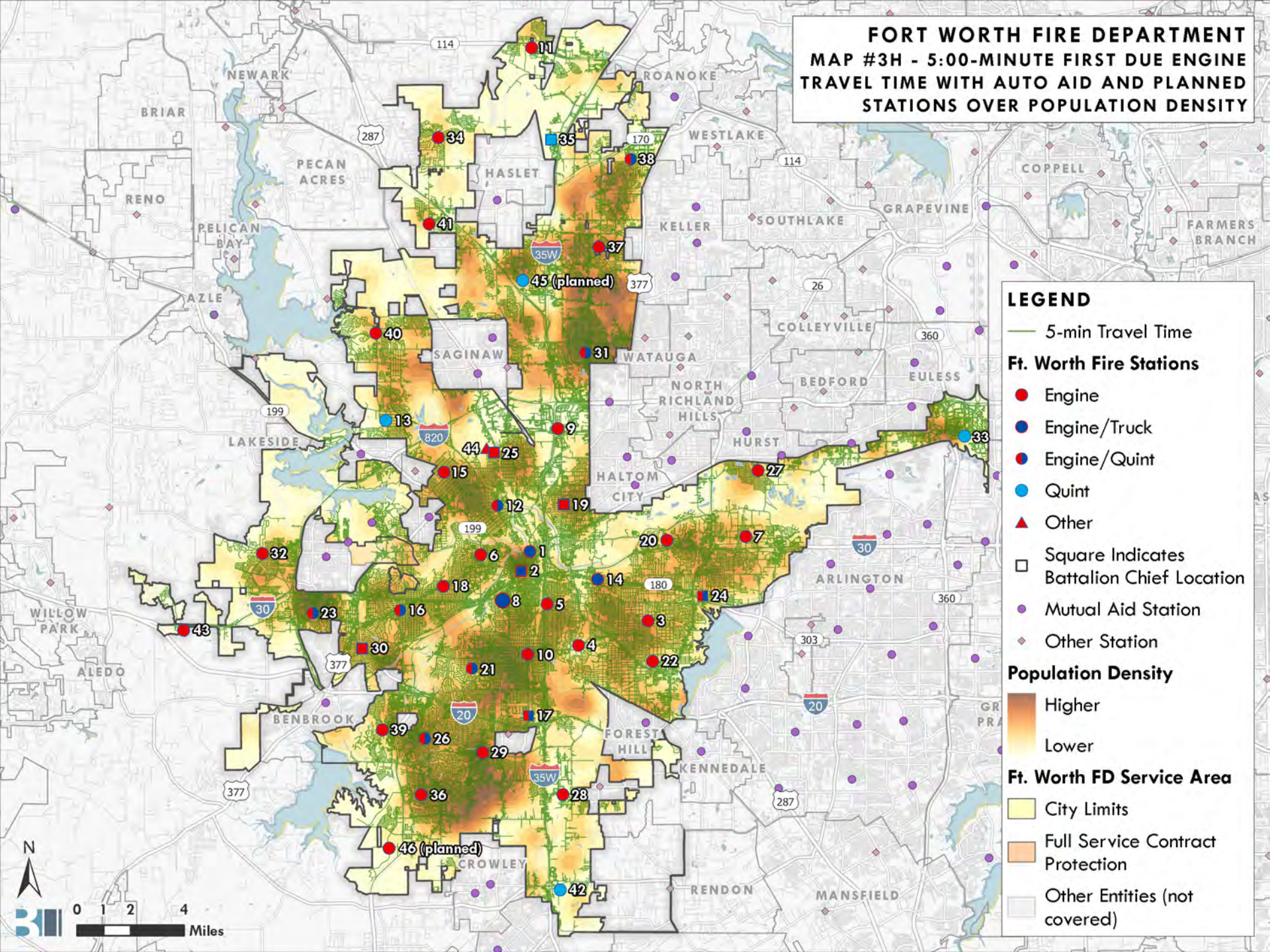
**FORT WORTH FIRE DEPARTMENT
MAP #3G - 5:00-MINUTE FIRST DUE ENGINE
TRAVEL TIME WITH AUTO AID AND
PLANNED STATIONS W/ CONGESTION**



- LEGEND**
- 5-min w/Congestion
 - 5-min Travel Time
- Ft. Worth Fire Stations**
- Engine
 - Engine/Truck
 - Engine/Quint
 - Quint
 - ▲ Other
 - Square Indicates Battalion Chief Location
 - Mutual Aid Station
 - ◆ Other Station
- Ft. Worth FD Service Area**
- City Limits
 - Full Service Contract Protection
 - Other Entities (not covered)

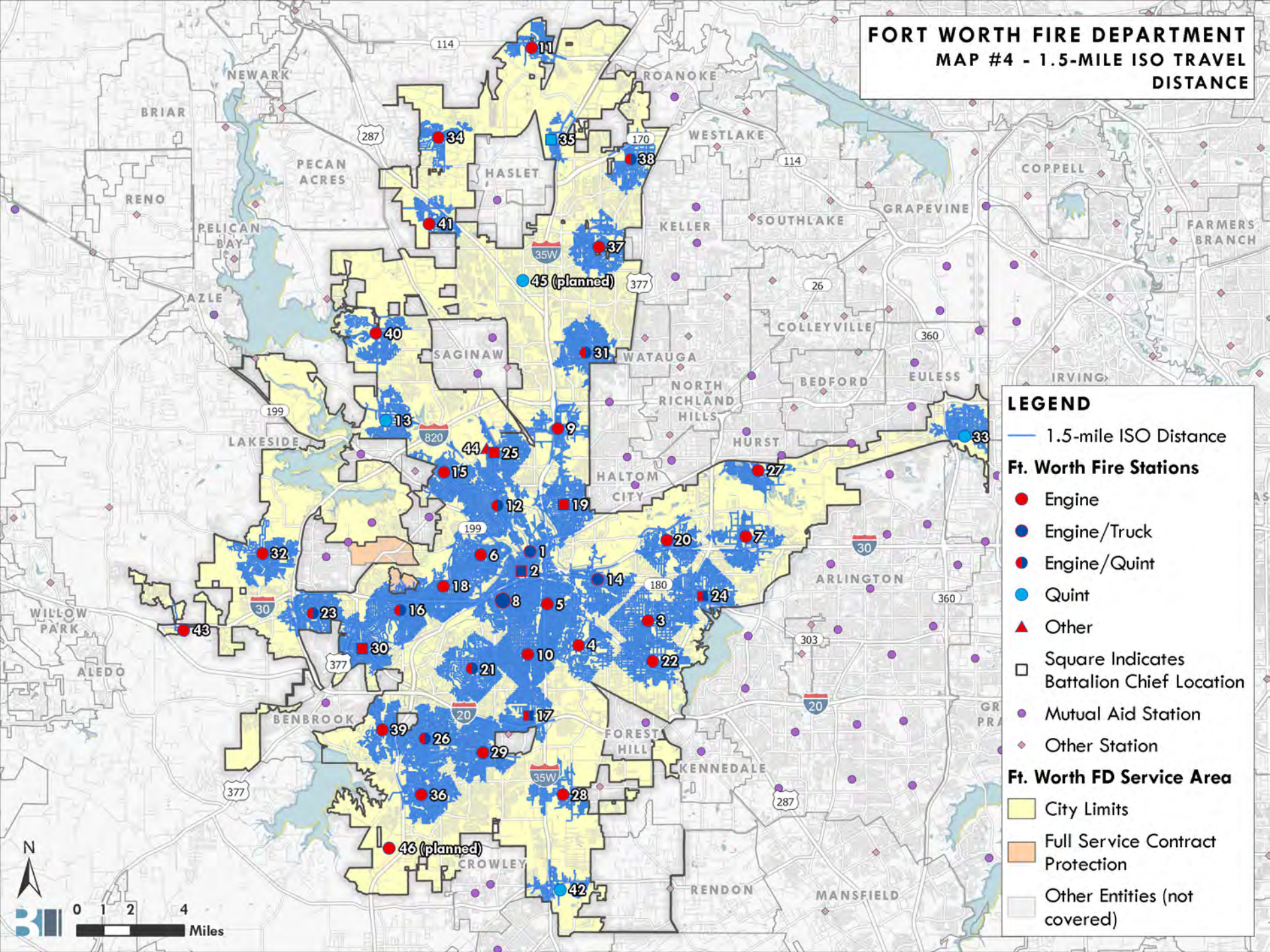


**FORT WORTH FIRE DEPARTMENT
MAP #3H - 5:00-MINUTE FIRST DUE ENGINE
TRAVEL TIME WITH AUTO AID AND PLANNED
STATIONS OVER POPULATION DENSITY**



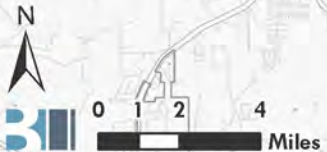
- LEGEND**
- 5-min Travel Time
 - Ft. Worth Fire Stations**
 - Engine
 - Engine/Truck
 - Engine/Quint
 - Quint
 - ▲ Other
 - Square Indicates Battalion Chief Location
 - Mutual Aid Station
 - ◆ Other Station
 - Population Density**
 - Higher
 - Lower
 - Ft. Worth FD Service Area**
 - City Limits
 - Full Service Contract Protection
 - Other Entities (not covered)

FORT WORTH FIRE DEPARTMENT MAP #4 - 1.5-MILE ISO TRAVEL DISTANCE

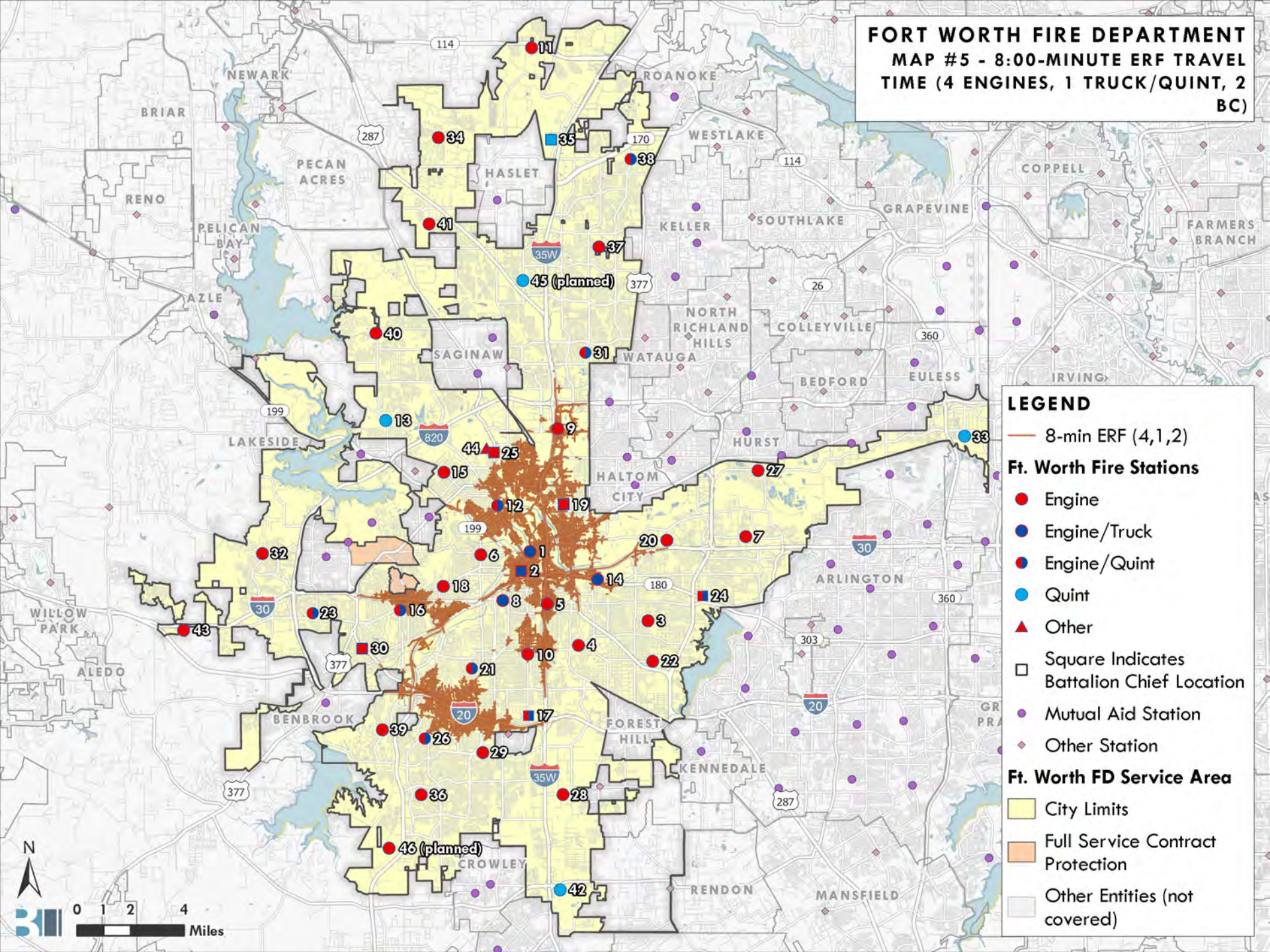


LEGEND

- 1.5-mile ISO Distance
- Ft. Worth Fire Stations**
 - Engine
 - Engine/Truck
 - Engine/Quint
 - Quint
 - ▲ Other
 - Square Indicates Battalion Chief Location
 - Mutual Aid Station
 - ◆ Other Station
- Ft. Worth FD Service Area**
 - City Limits
 - Full Service Contract Protection
 - Other Entities (not covered)



**FORT WORTH FIRE DEPARTMENT
MAP #5 - 8:00-MINUTE ERF TRAVEL
TIME (4 ENGINES, 1 TRUCK/QUINT, 2
BC)**

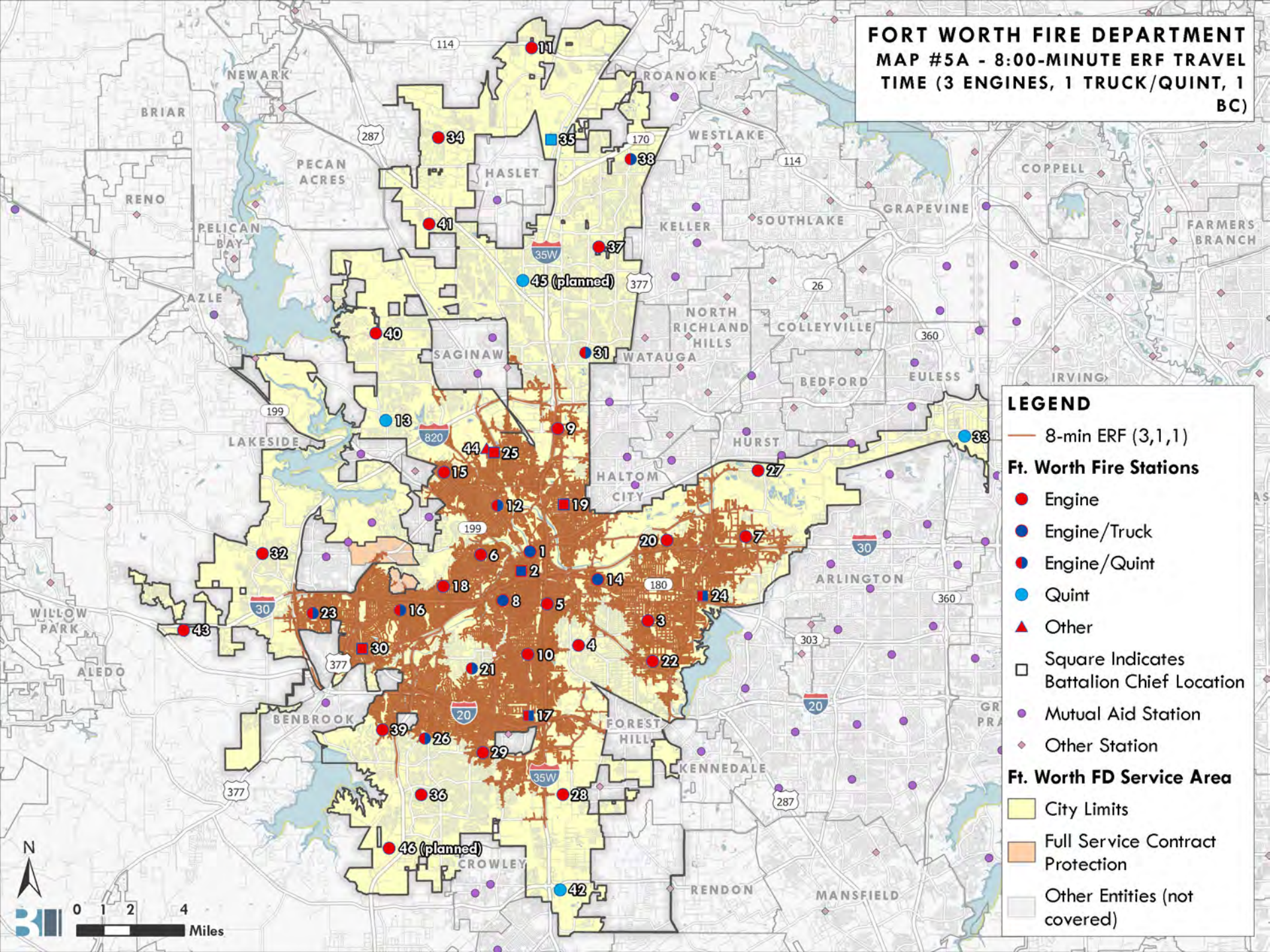


LEGEND

- 8-min ERF (4,1,2)
- Ft. Worth Fire Stations**
- Engine
- Engine/Truck
- Engine/Quint
- Quint
- ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station
- Ft. Worth FD Service Area**
- City Limits
- Full Service Contract Protection
- Other Entities (not covered)



**FORT WORTH FIRE DEPARTMENT
MAP #5A - 8:00-MINUTE ERF TRAVEL
TIME (3 ENGINES, 1 TRUCK/QUINT, 1
BC)**

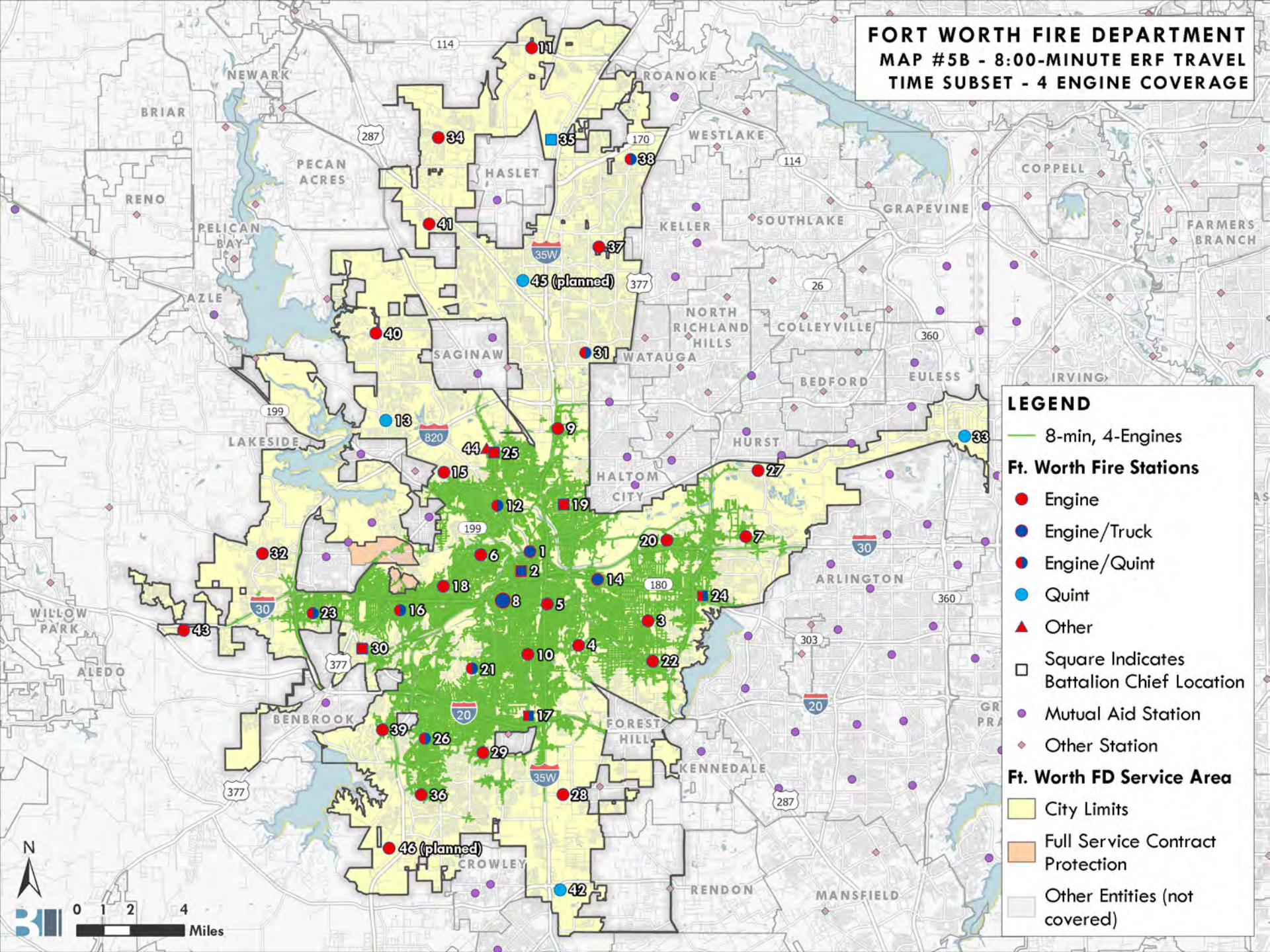


LEGEND

- 8-min ERF (3,1,1)
- Ft. Worth Fire Stations**
 - Engine
 - Engine/Truck
 - Engine/Quint
 - Quint
 - Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- Other Station
- Ft. Worth FD Service Area**
 - City Limits
 - Full Service Contract Protection
 - Other Entities (not covered)



**FORT WORTH FIRE DEPARTMENT
MAP #5B - 8:00-MINUTE ERF TRAVEL
TIME SUBSET - 4 ENGINE COVERAGE**

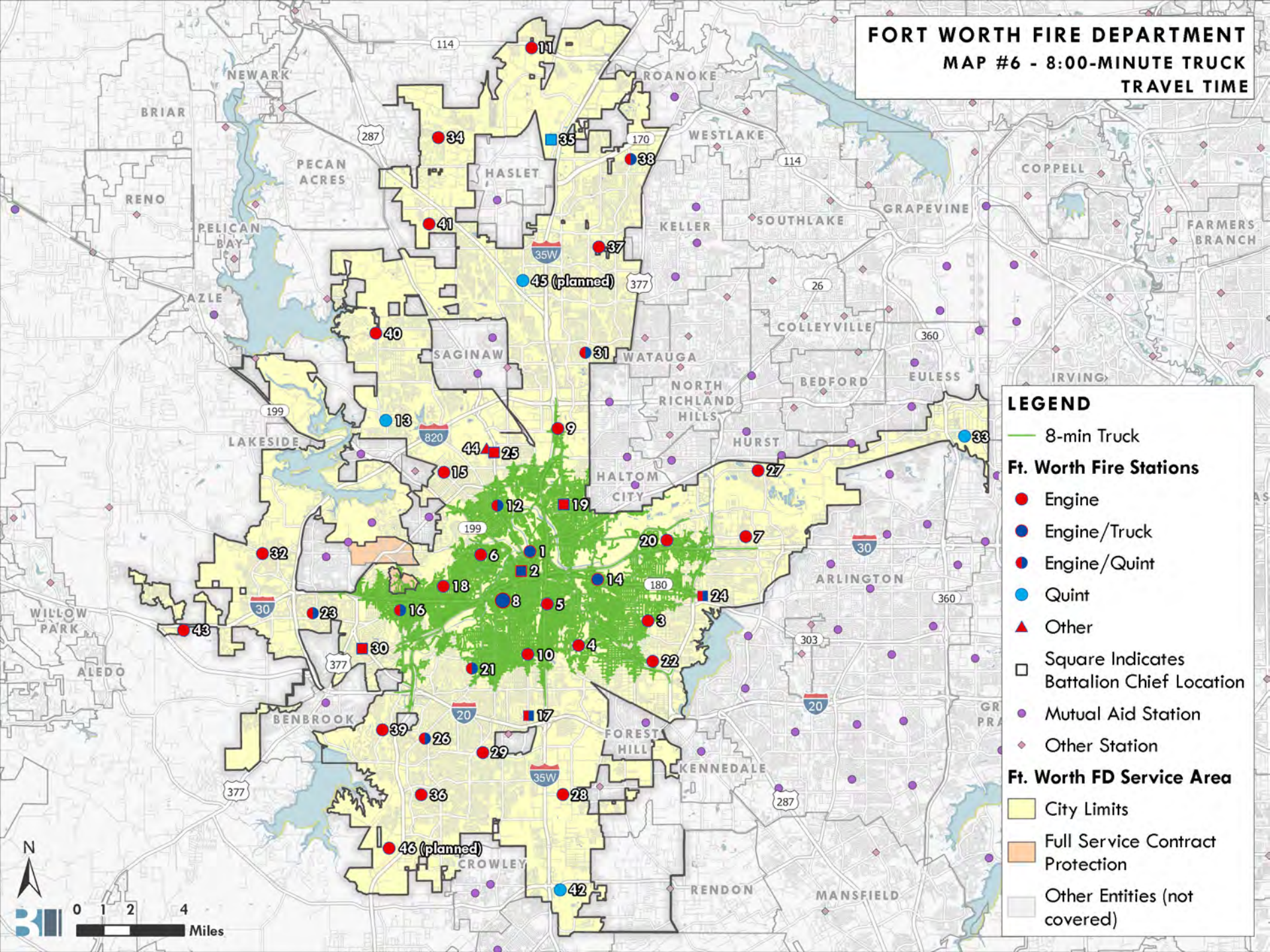


LEGEND

- 8-min, 4-Engines
- Ft. Worth Fire Stations**
- Engine
- Engine/Truck
- Engine/Quint
- Quint
- ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station
- Ft. Worth FD Service Area**
- City Limits
- Full Service Contract Protection
- Other Entities (not covered)



**FORT WORTH FIRE DEPARTMENT
MAP #6 - 8:00-MINUTE TRUCK
TRAVEL TIME**

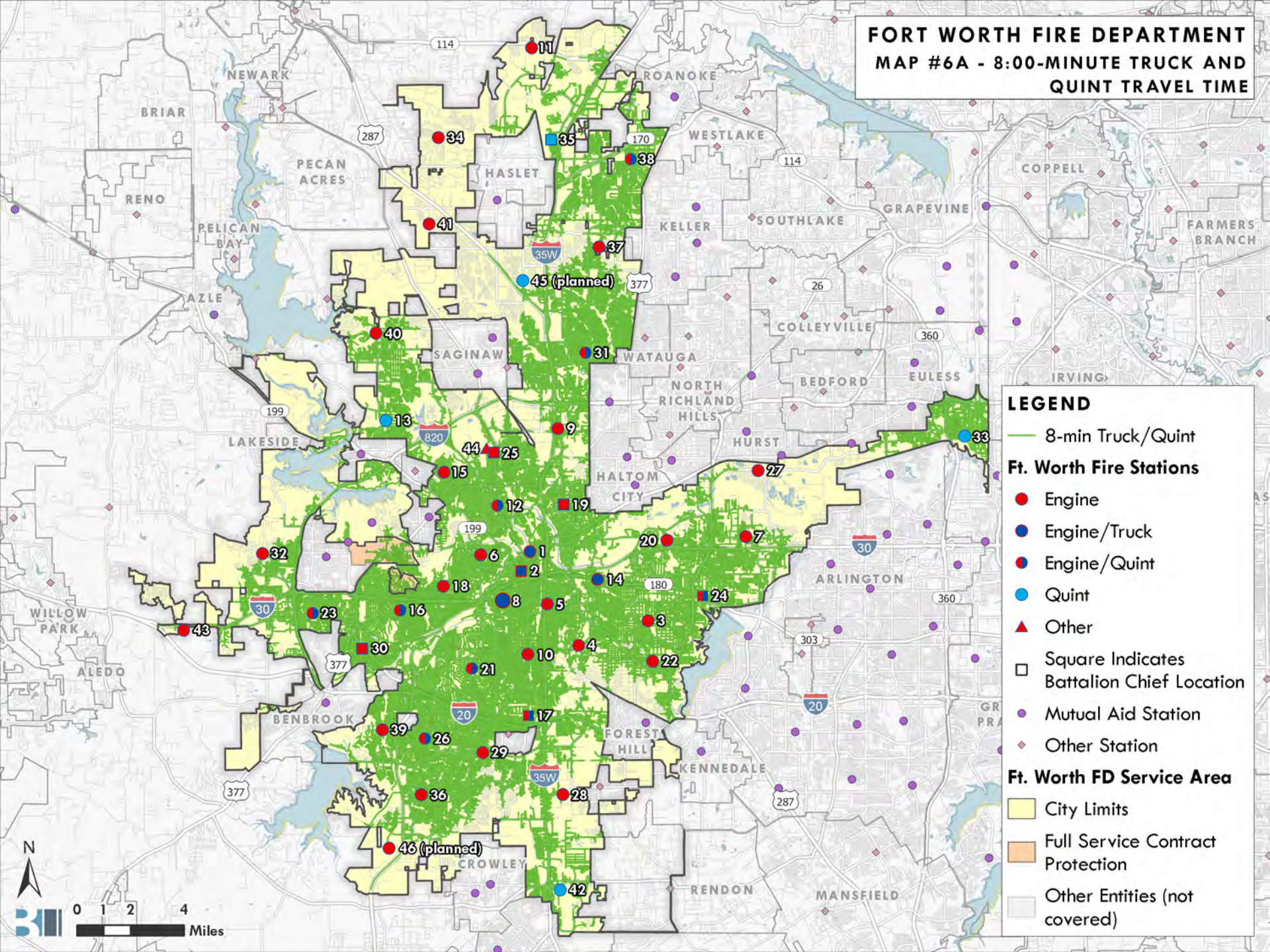


LEGEND

- 8-min Truck
- Ft. Worth Fire Stations**
 - Engine
 - Engine/Truck
 - Engine/Quint
 - Quint
 - Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- Other Station
- Ft. Worth FD Service Area**
 - City Limits
 - Full Service Contract Protection
 - Other Entities (not covered)



FORT WORTH FIRE DEPARTMENT MAP #6A - 8:00-MINUTE TRUCK AND QUINT TRAVEL TIME

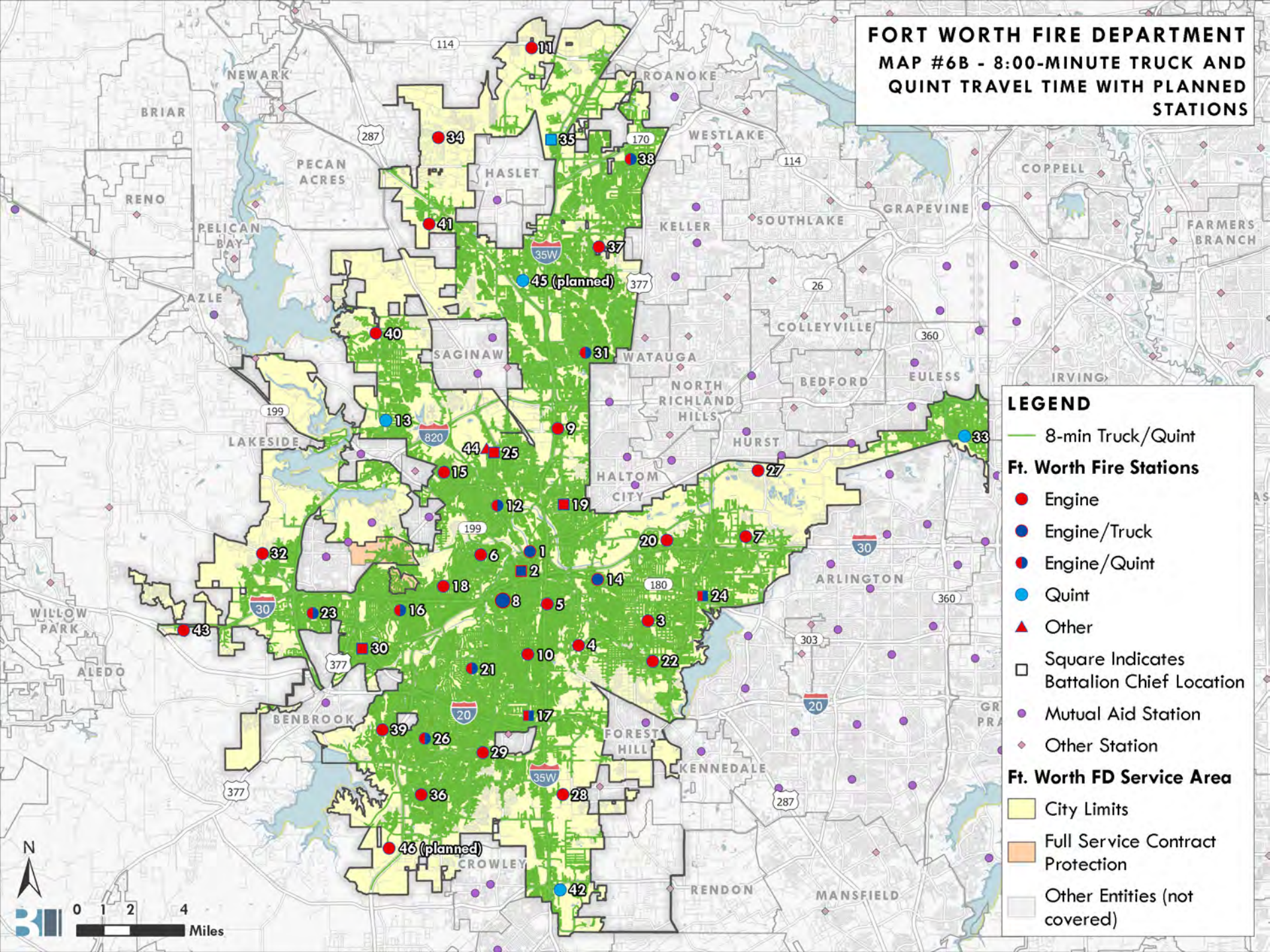


LEGEND

- 8-min Truck/Quint
- Ft. Worth Fire Stations**
- Engine
- Engine/Truck
- Engine/Quint
- Quint
- ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station
- Ft. Worth FD Service Area**
- City Limits
- Full Service Contract Protection
- Other Entities (not covered)



**FORT WORTH FIRE DEPARTMENT
MAP #6B - 8:00-MINUTE TRUCK AND
QUINT TRAVEL TIME WITH PLANNED
STATIONS**

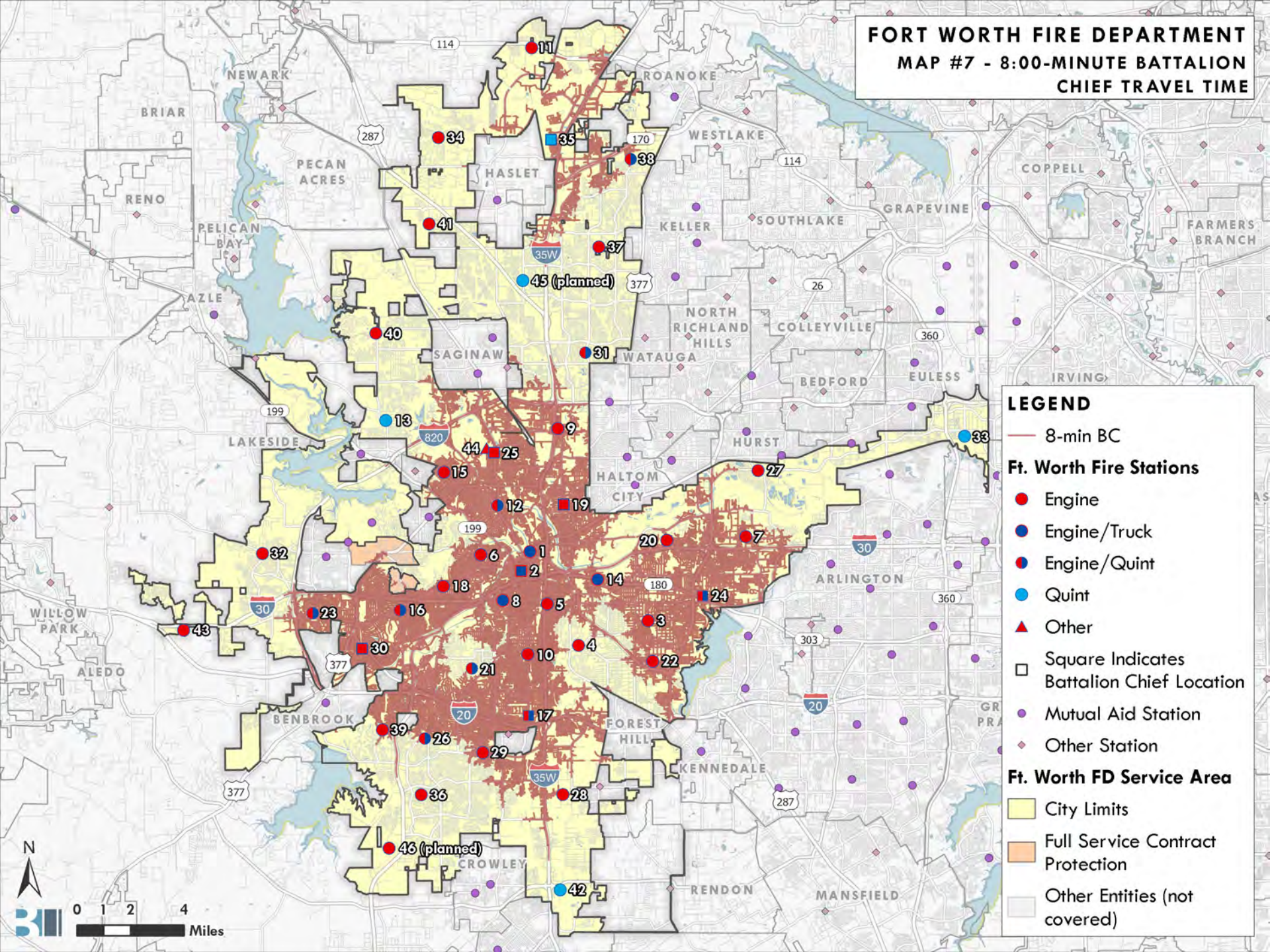


LEGEND

- 8-min Truck/Quint
- Ft. Worth Fire Stations**
- Engine
- Engine/Truck
- Engine/Quint
- Quint
- ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station
- Ft. Worth FD Service Area**
- City Limits
- Full Service Contract Protection
- Other Entities (not covered)



**FORT WORTH FIRE DEPARTMENT
MAP #7 - 8:00-MINUTE BATTALION
CHIEF TRAVEL TIME**

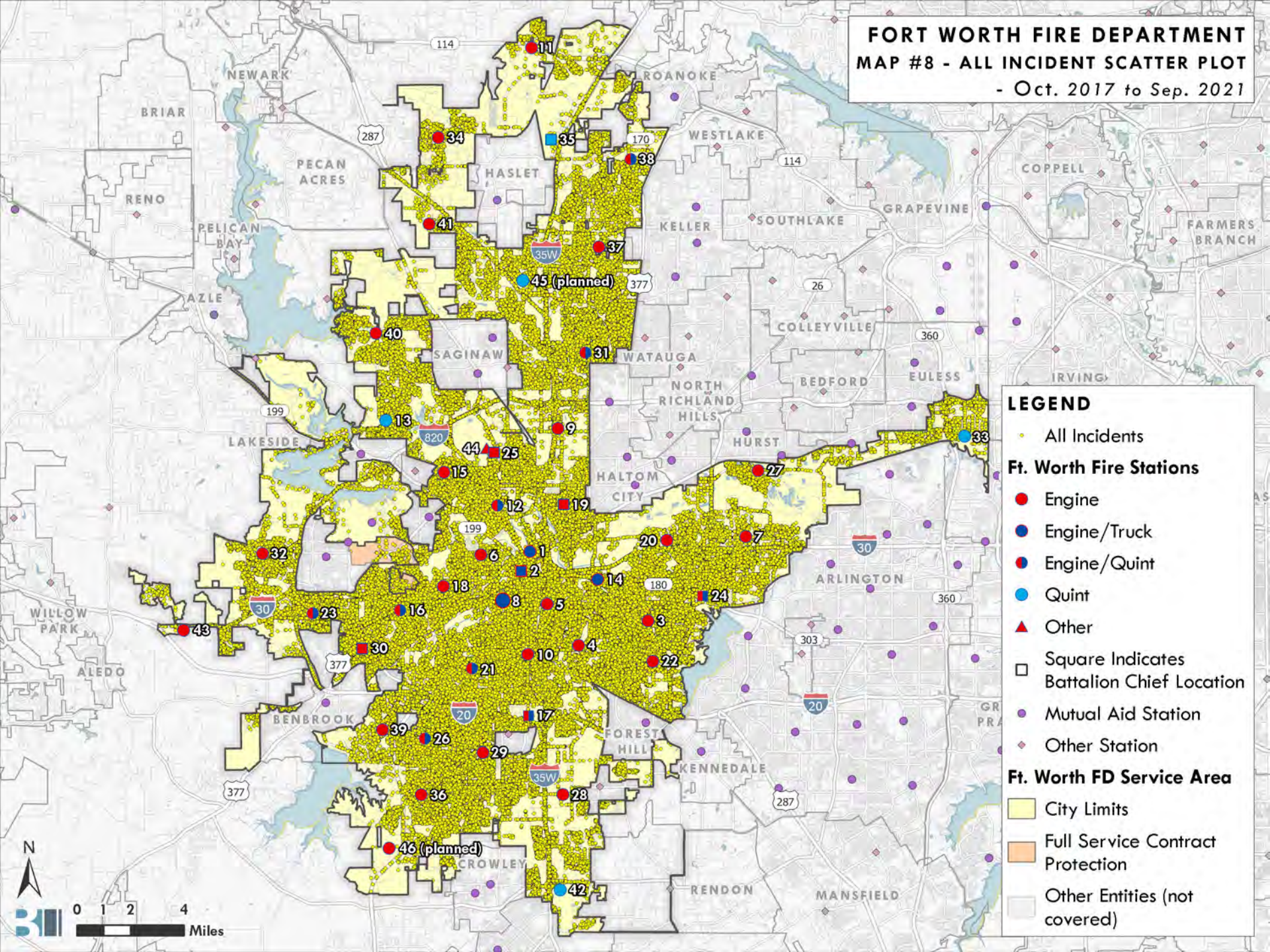


LEGEND

- 8-min BC
- Ft. Worth Fire Stations**
- Engine
- Engine/Truck
- Engine/Quint
- Quint
- ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station
- Ft. Worth FD Service Area**
- City Limits
- Full Service Contract Protection
- Other Entities (not covered)

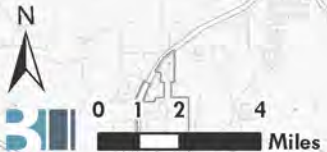


**FORT WORTH FIRE DEPARTMENT
MAP #8 - ALL INCIDENT SCATTER PLOT
- Oct. 2017 to Sep. 2021**

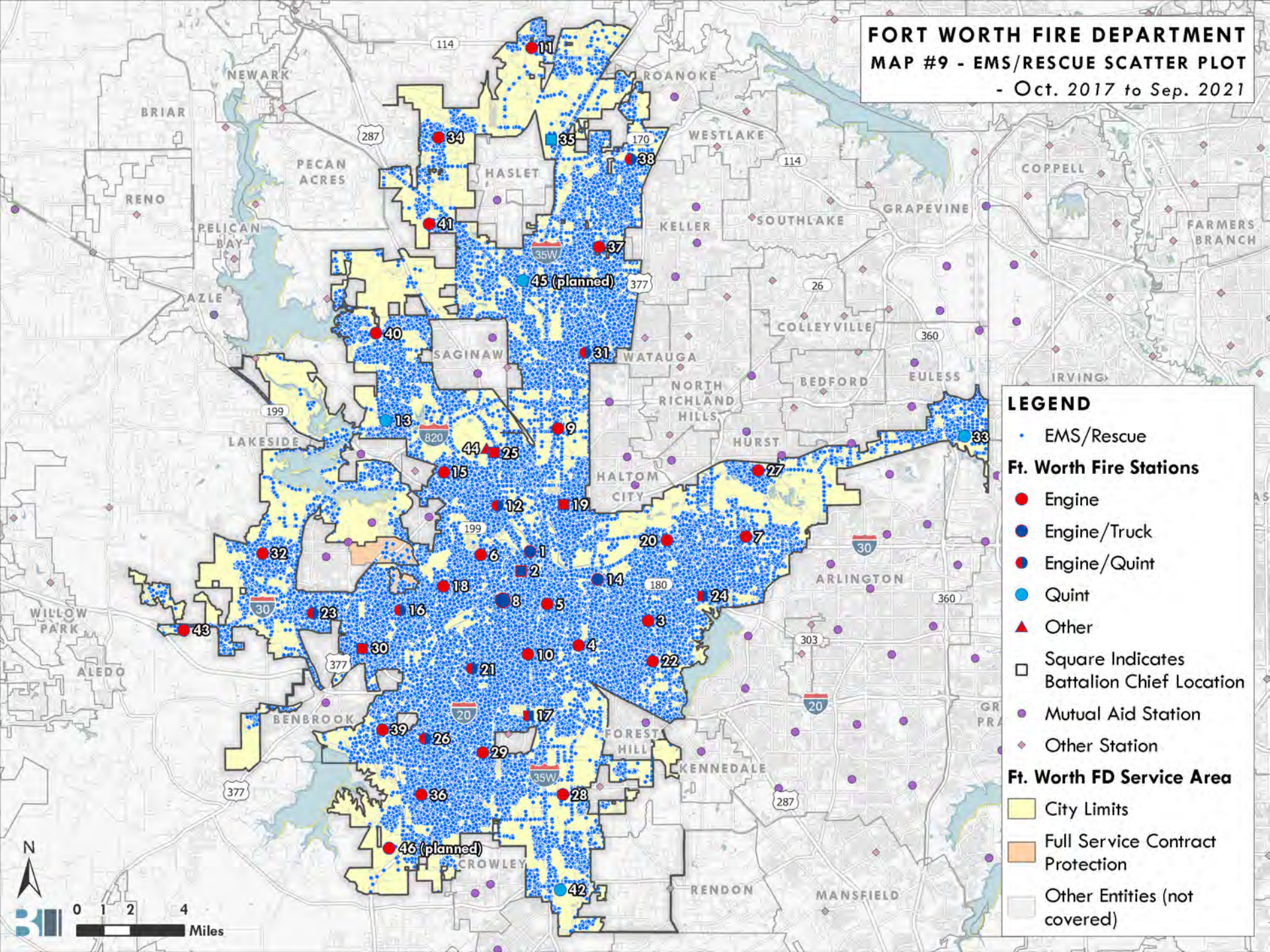


LEGEND

- All Incidents
- Ft. Worth Fire Stations**
 - Engine
 - Engine/Truck
 - Engine/Quint
 - Quint
 - ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station
- Ft. Worth FD Service Area**
 - City Limits
 - Full Service Contract Protection
 - Other Entities (not covered)



**FORT WORTH FIRE DEPARTMENT
MAP #9 - EMS/RESCUE SCATTER PLOT
- Oct. 2017 to Sep. 2021**

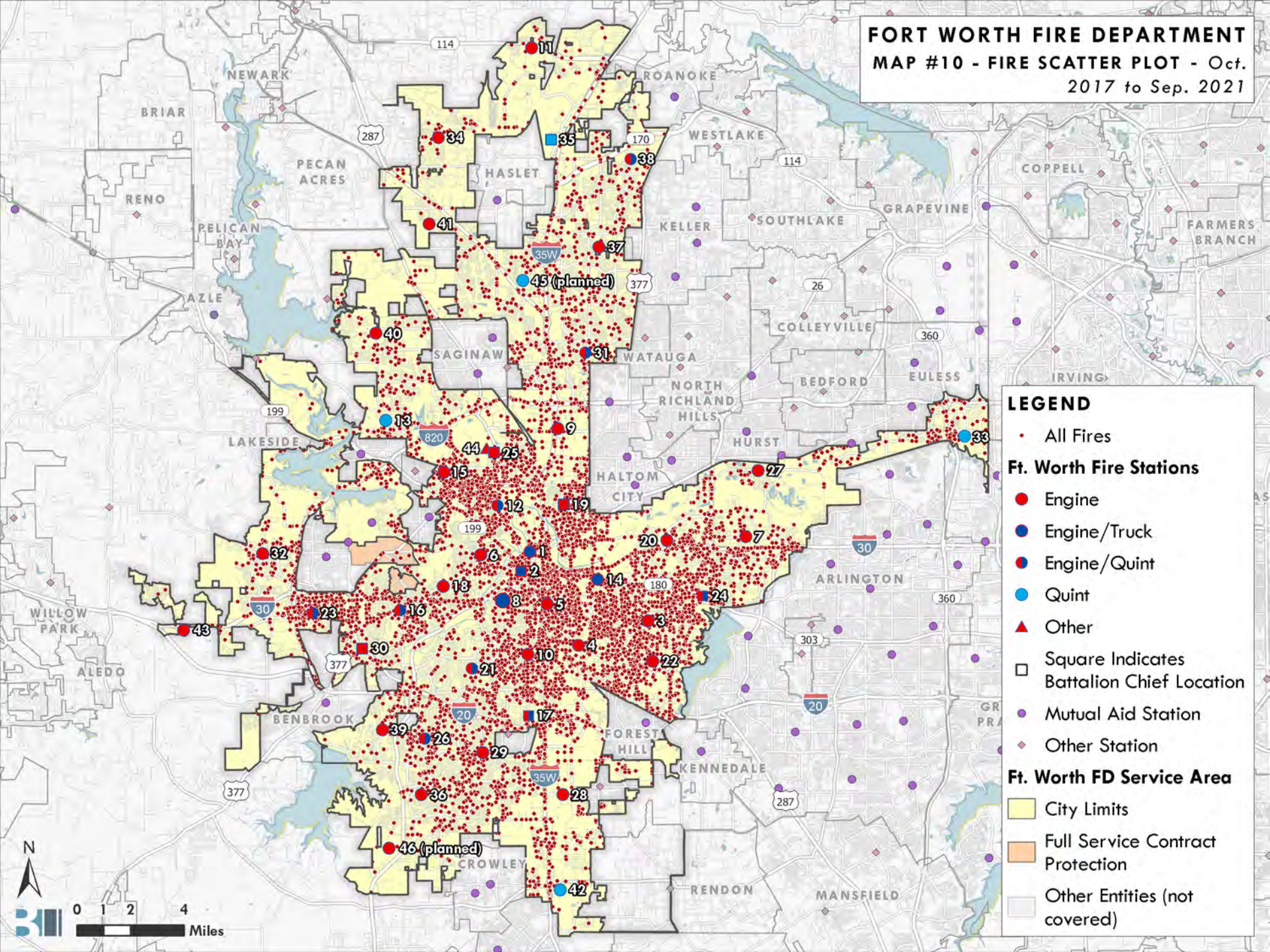


LEGEND

- EMS/Rescue
- Ft. Worth Fire Stations**
 - Engine
 - Engine/Truck
 - Engine/Quint
 - Quint
 - ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station
- Ft. Worth FD Service Area**
 - City Limits
 - Full Service Contract Protection
 - Other Entities (not covered)

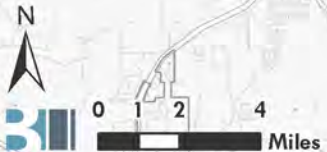


FORT WORTH FIRE DEPARTMENT
MAP #10 - FIRE SCATTER PLOT - Oct.
2017 to Sep. 2021

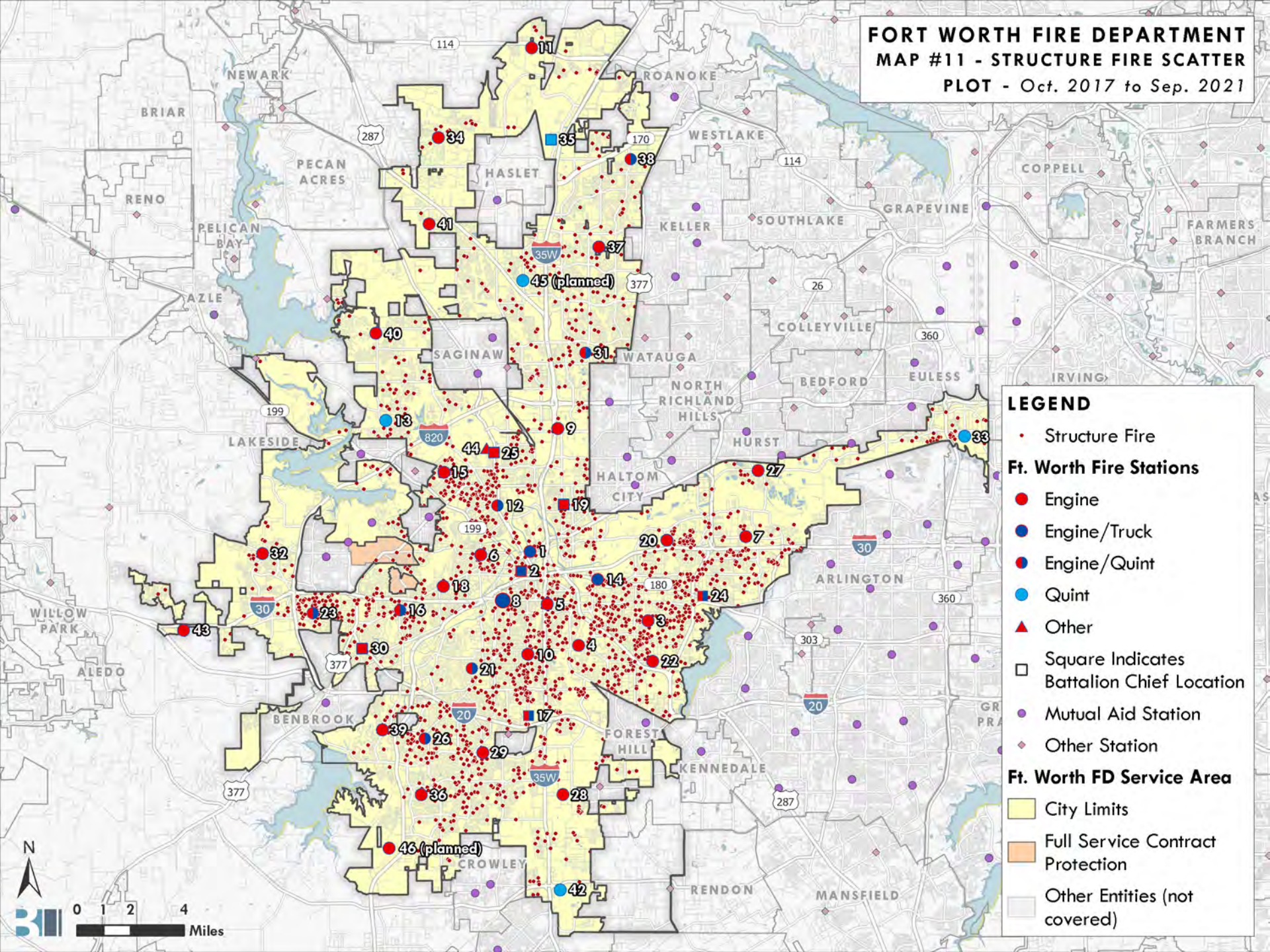


LEGEND

- All Fires
- Ft. Worth Fire Stations**
 - Engine
 - Engine/Truck
 - Engine/Quint
 - Quint
 - ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station
- Ft. Worth FD Service Area**
 - City Limits
 - Full Service Contract Protection
 - Other Entities (not covered)



**FORT WORTH FIRE DEPARTMENT
MAP #11 - STRUCTURE FIRE SCATTER
PLOT - Oct. 2017 to Sep. 2021**

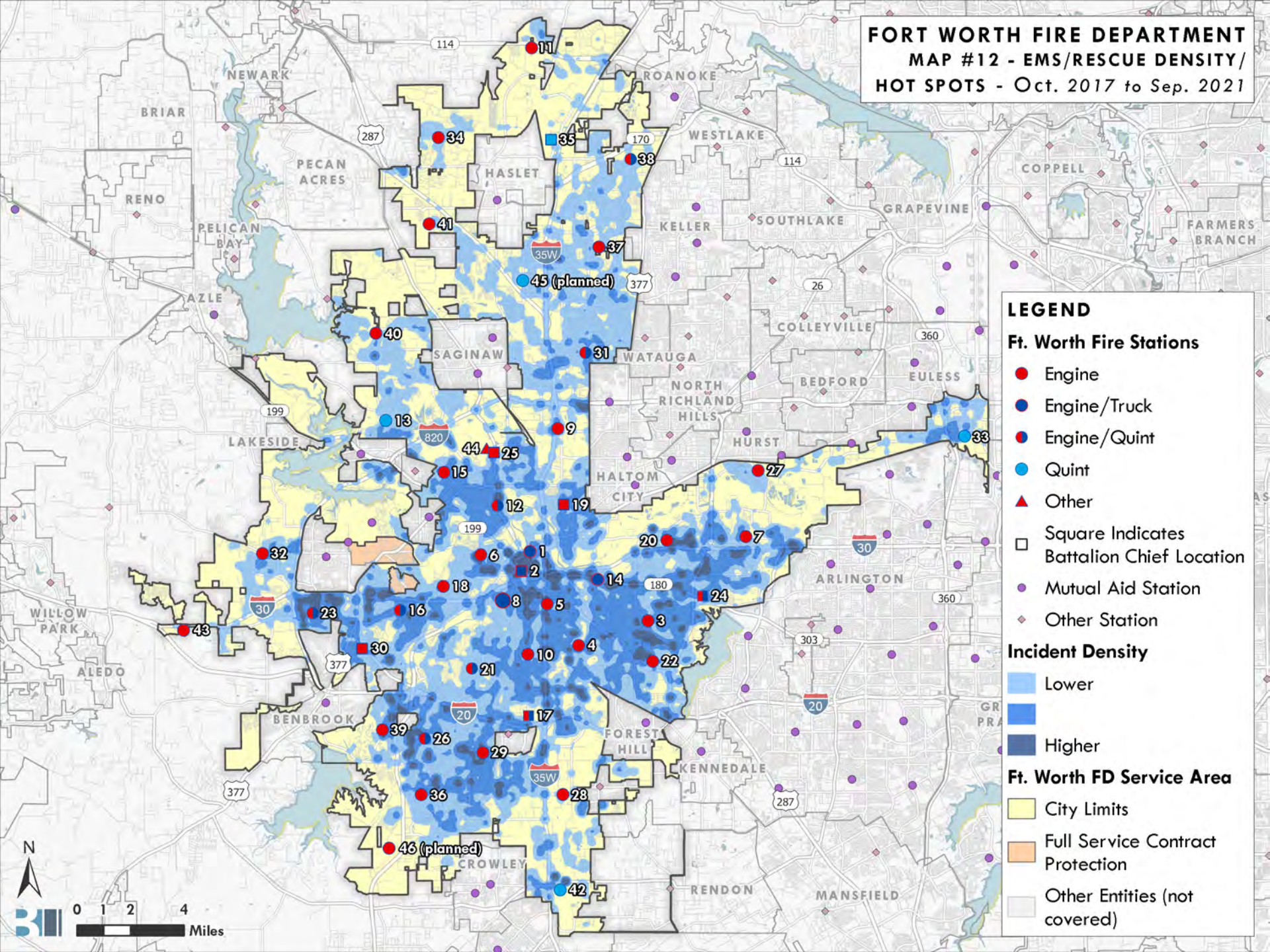


LEGEND

- Structure Fire
- Ft. Worth Fire Stations**
 - Engine
 - Engine/Truck
 - Engine/Quint
 - Quint
 - ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station
- Ft. Worth FD Service Area**
 - City Limits
 - Full Service Contract Protection
 - Other Entities (not covered)



**FORT WORTH FIRE DEPARTMENT
MAP #12 - EMS/RESCUE DENSITY/
HOT SPOTS - Oct. 2017 to Sep. 2021**



LEGEND

Ft. Worth Fire Stations

- Engine
- Engine/Truck
- Engine/Quint
- Quint
- ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station

Incident Density

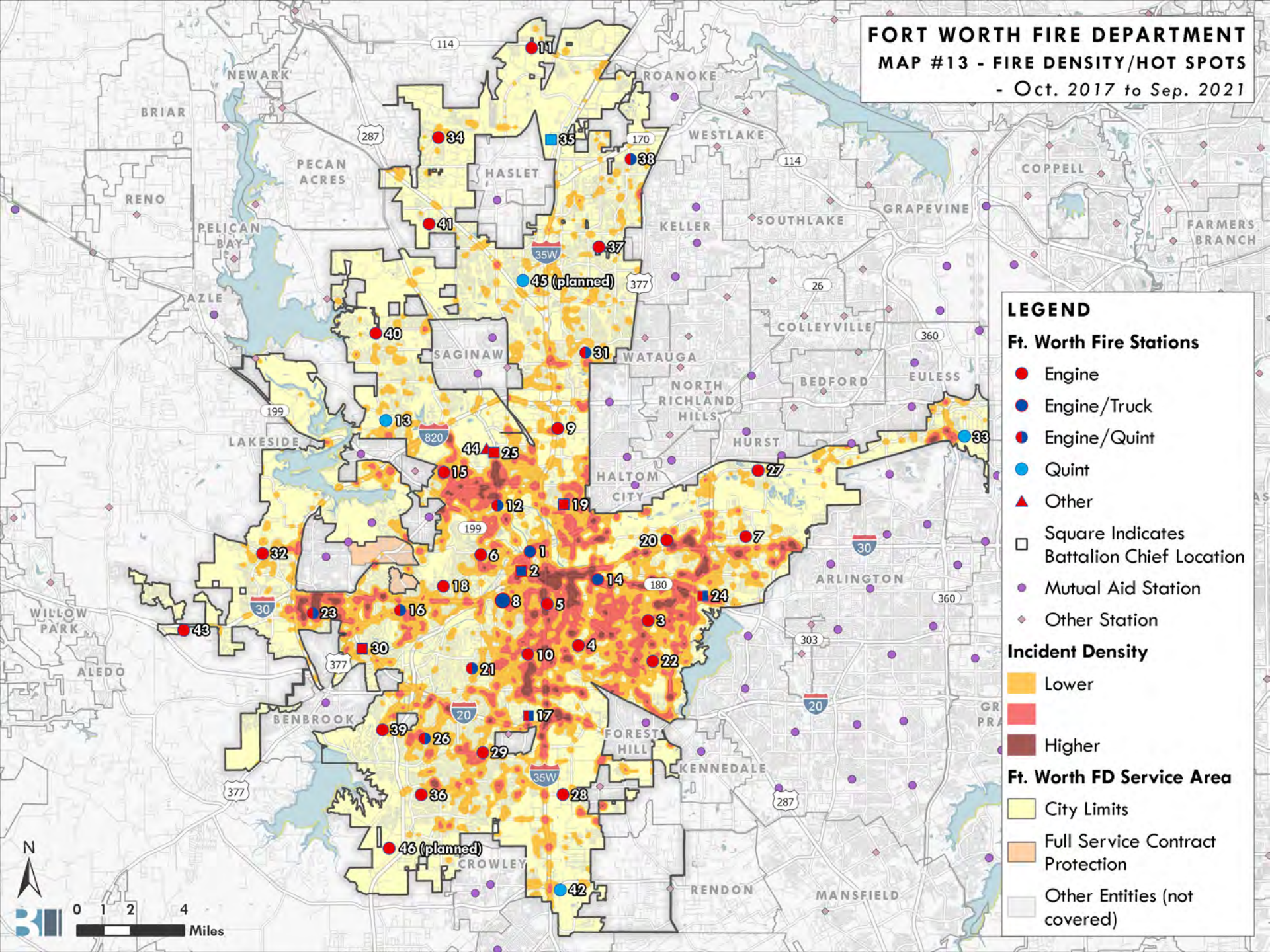
- Light Blue: Lower
- Dark Blue: Higher

Ft. Worth FD Service Area

- Yellow: City Limits
- Orange: Full Service Contract Protection
- Grey: Other Entities (not covered)



**FORT WORTH FIRE DEPARTMENT
MAP #13 - FIRE DENSITY/HOT SPOTS
- Oct. 2017 to Sep. 2021**



LEGEND

Ft. Worth Fire Stations

- Engine
- Engine/Truck
- Engine/Quint
- Quint
- ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station

Incident Density

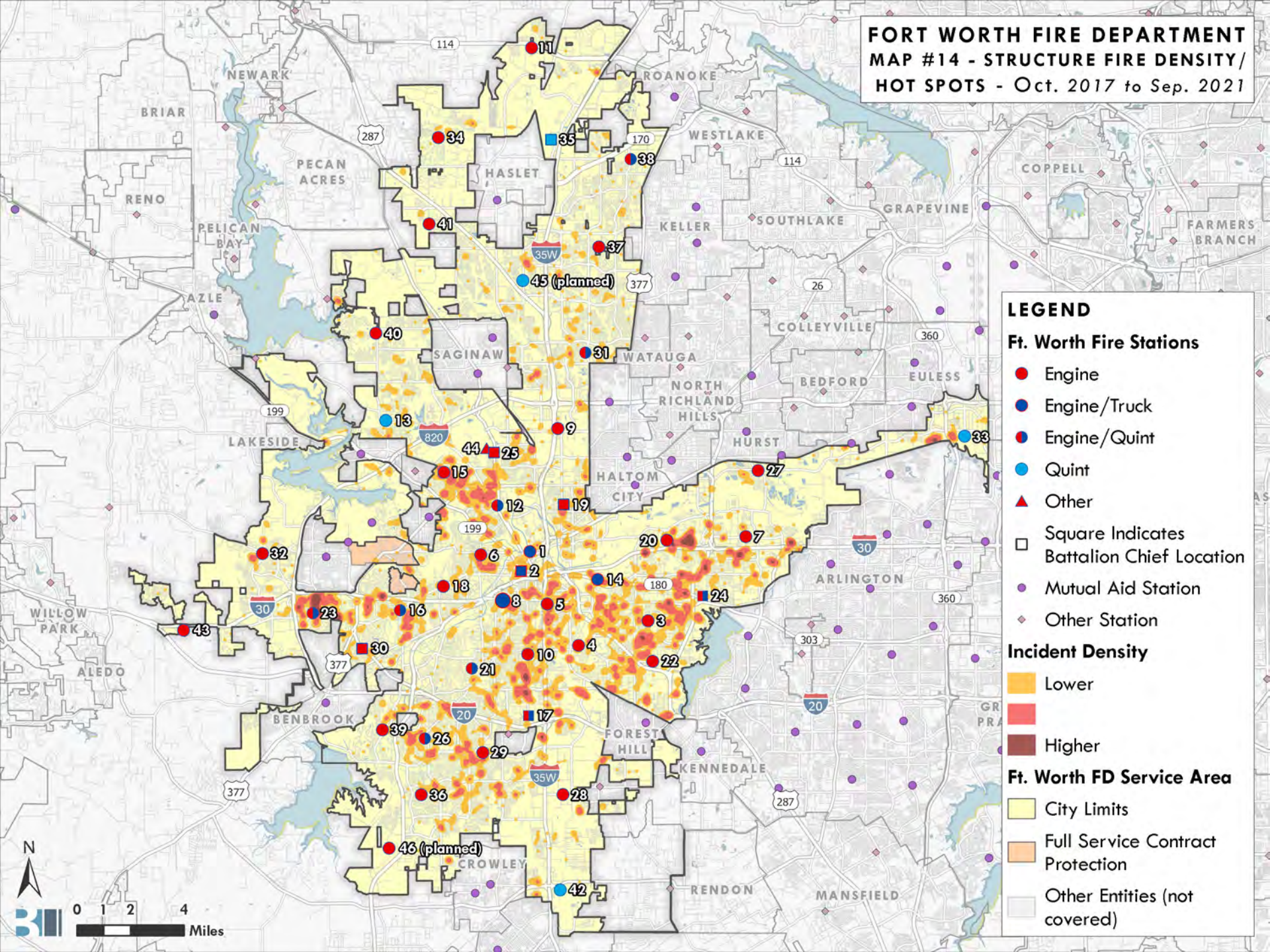
- Lower
- Higher

Ft. Worth FD Service Area

- City Limits
- Full Service Contract Protection
- Other Entities (not covered)



**FORT WORTH FIRE DEPARTMENT
MAP #14 - STRUCTURE FIRE DENSITY/
HOT SPOTS - Oct. 2017 to Sep. 2021**



LEGEND

Ft. Worth Fire Stations

- Engine
- Engine/Truck
- Engine/Quint
- Quint
- ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station

Incident Density

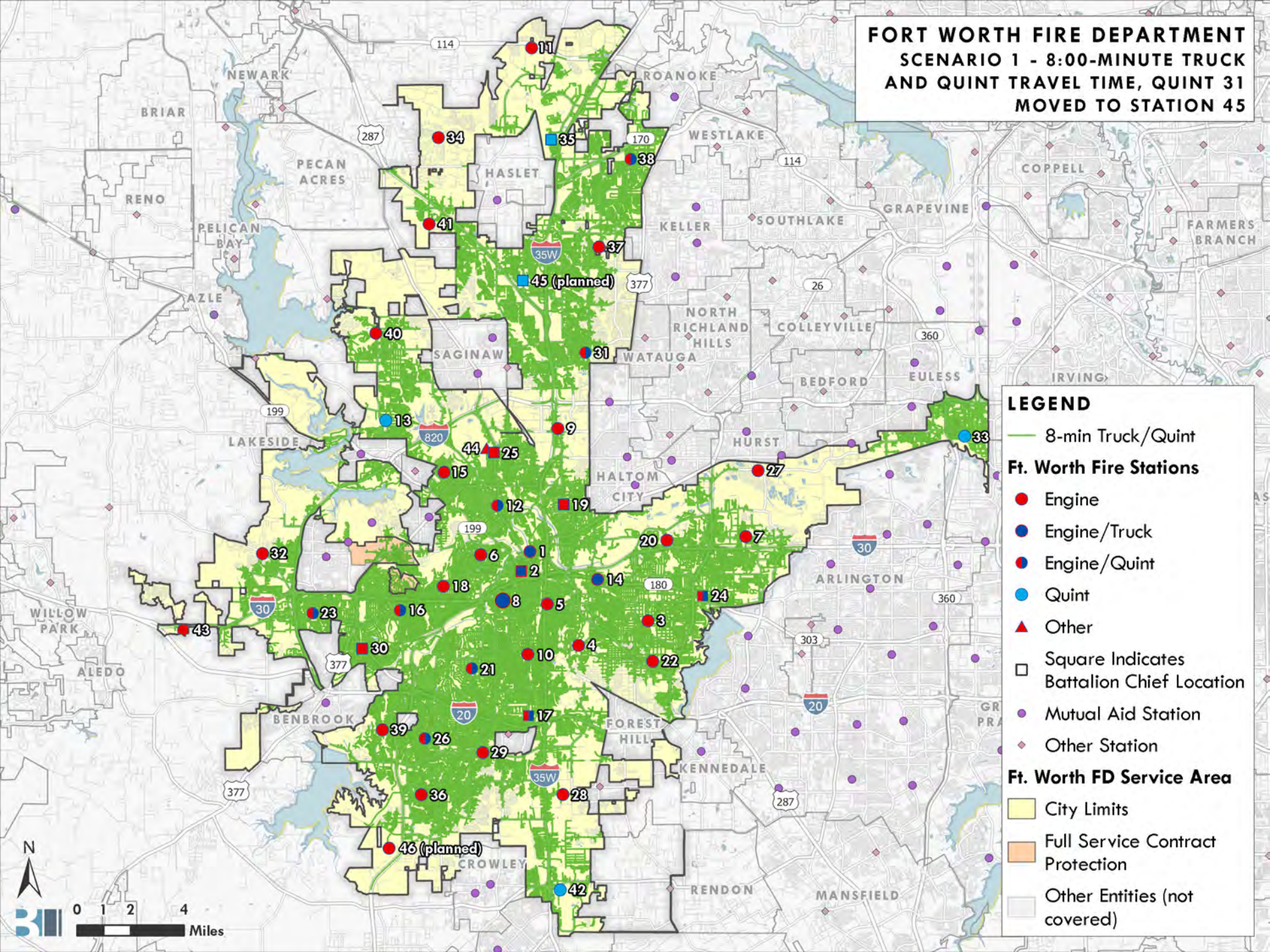
- Lower
- Higher

Ft. Worth FD Service Area

- City Limits
- Full Service Contract Protection
- Other Entities (not covered)

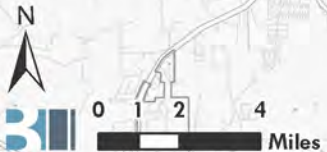


**FORT WORTH FIRE DEPARTMENT
SCENARIO 1 - 8:00-MINUTE TRUCK
AND QUINT TRAVEL TIME, QUINT 31
MOVED TO STATION 45**

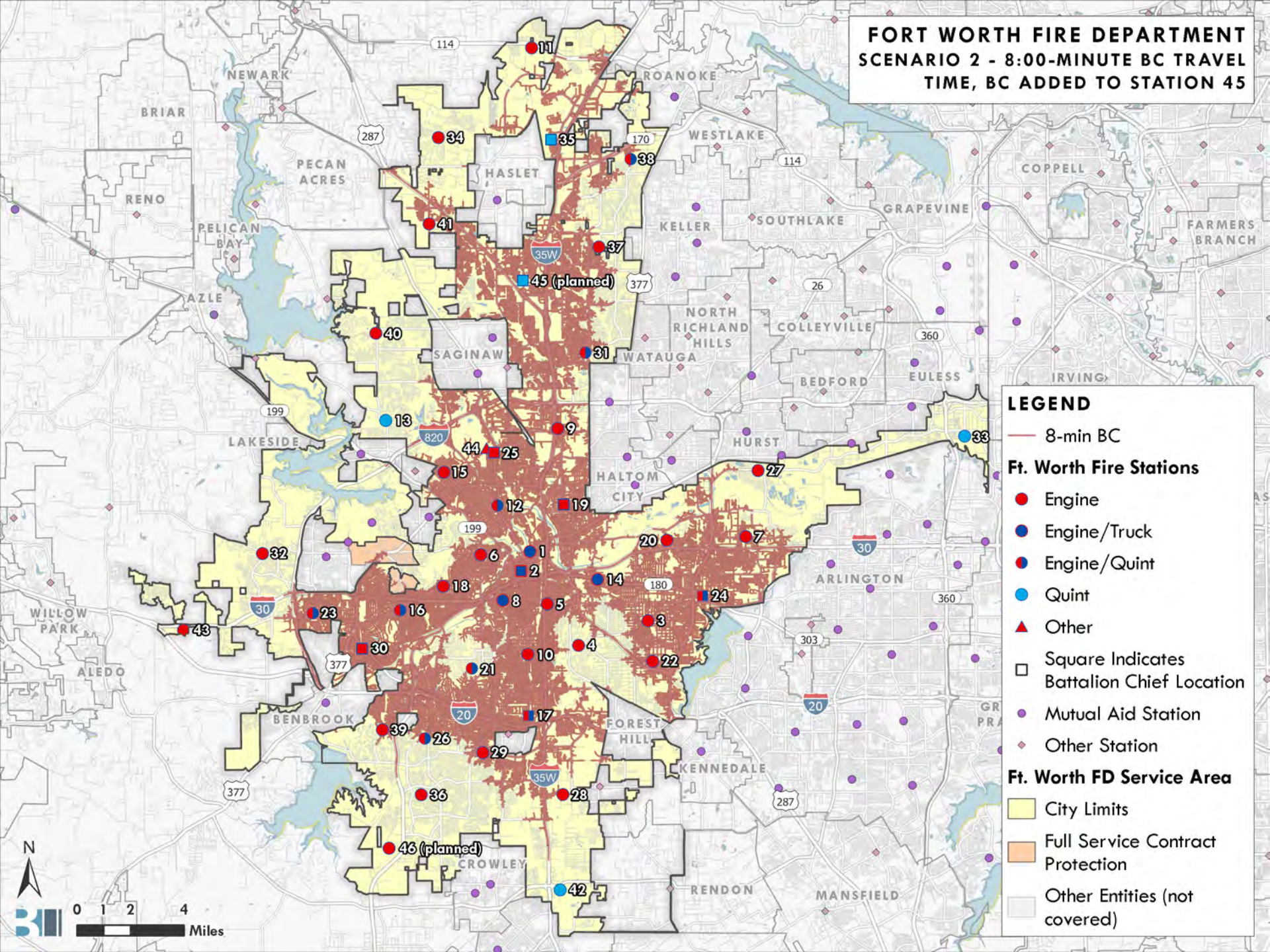


LEGEND

- 8-min Truck/Quint
- Ft. Worth Fire Stations**
- Engine
- Engine/Truck
- Engine/Quint
- Quint
- ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station
- Ft. Worth FD Service Area**
- City Limits
- Full Service Contract Protection
- Other Entities (not covered)



**FORT WORTH FIRE DEPARTMENT
SCENARIO 2 - 8:00-MINUTE BC TRAVEL
TIME, BC ADDED TO STATION 45**

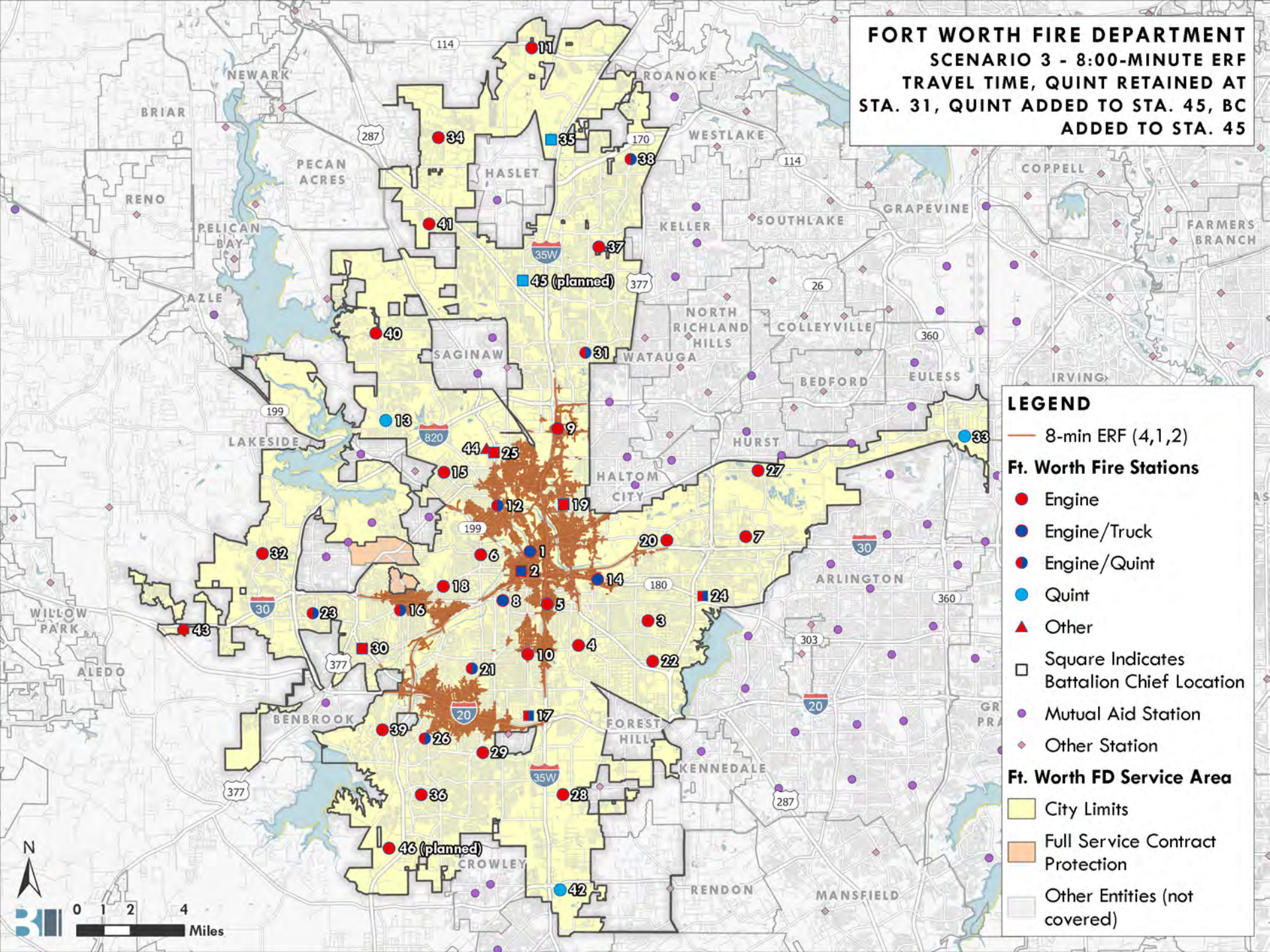


LEGEND

- 8-min BC
- Ft. Worth Fire Stations**
- Engine
- Engine/Truck
- Engine/Quint
- Quint
- ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station
- Ft. Worth FD Service Area**
- City Limits
- Full Service Contract Protection
- Other Entities (not covered)



**FORT WORTH FIRE DEPARTMENT
SCENARIO 3 - 8:00-MINUTE ERF
TRAVEL TIME, QUINT RETAINED AT
STA. 31, QUINT ADDED TO STA. 45, BC
ADDED TO STA. 45**

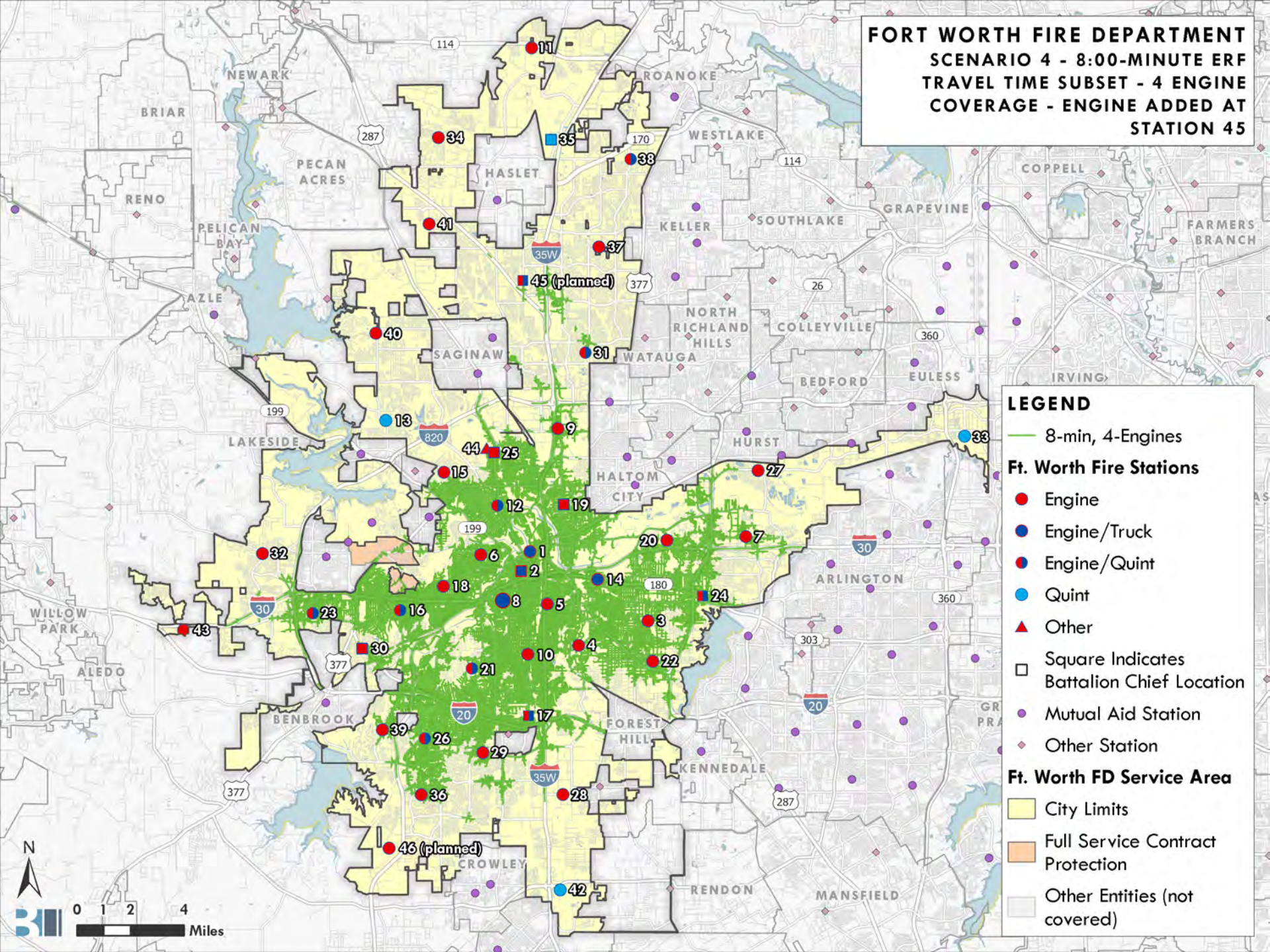


LEGEND

- 8-min ERF (4,1,2)
- Ft. Worth Fire Stations**
- Engine
- Engine/Truck
- Engine/Quint
- Quint
- ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station
- Ft. Worth FD Service Area**
- City Limits
- Full Service Contract Protection
- Other Entities (not covered)



**FORT WORTH FIRE DEPARTMENT
SCENARIO 4 - 8:00-MINUTE ERF
TRAVEL TIME SUBSET - 4 ENGINE
COVERAGE - ENGINE ADDED AT
STATION 45**

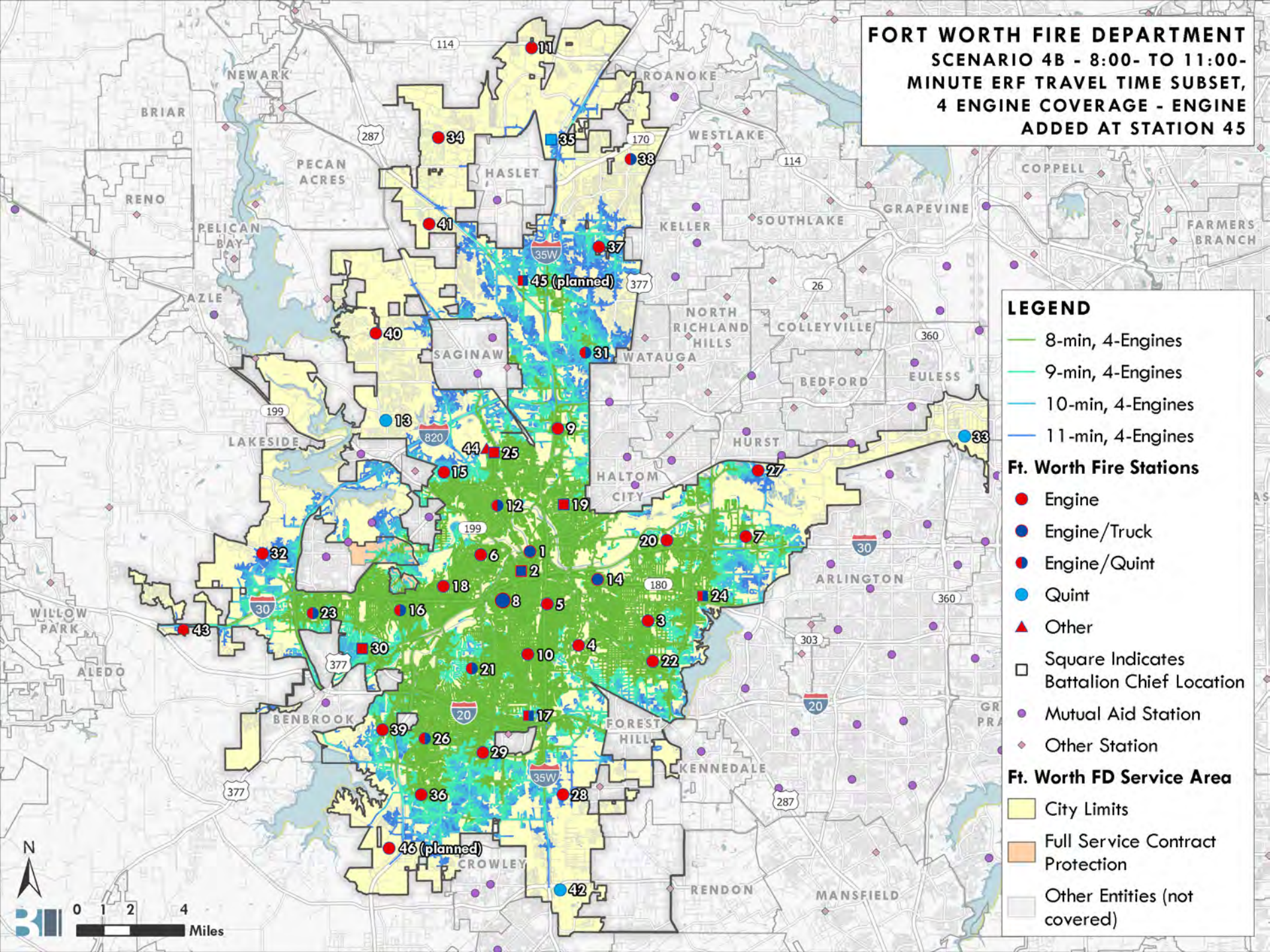


LEGEND

- 8-min, 4-Engines
- Ft. Worth Fire Stations**
- Engine
- Engine/Truck
- Engine/Quint
- Quint
- ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station
- Ft. Worth FD Service Area**
- City Limits
- Full Service Contract Protection
- Other Entities (not covered)



**FORT WORTH FIRE DEPARTMENT
SCENARIO 4B - 8:00- TO 11:00-
MINUTE ERF TRAVEL TIME SUBSET,
4 ENGINE COVERAGE - ENGINE
ADDED AT STATION 45**



LEGEND

- 8-min, 4-Engines
- 9-min, 4-Engines
- 10-min, 4-Engines
- 11-min, 4-Engines

Ft. Worth Fire Stations

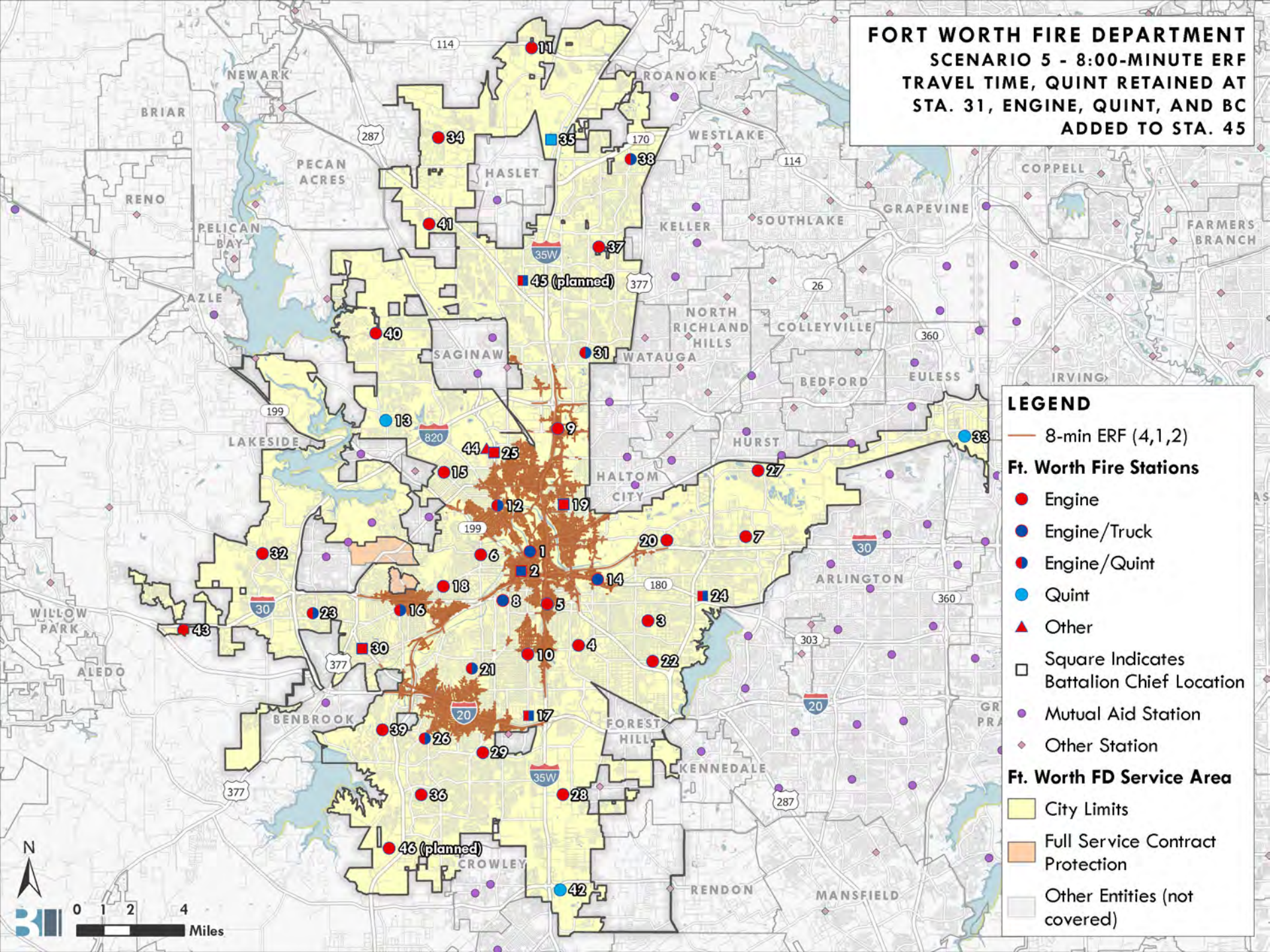
- Engine
- Engine/Truck
- Engine/Quint
- Quint
- ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station

Ft. Worth FD Service Area

- City Limits
- Full Service Contract Protection
- Other Entities (not covered)



**FORT WORTH FIRE DEPARTMENT
SCENARIO 5 - 8:00-MINUTE ERF
TRAVEL TIME, QUINT RETAINED AT
STA. 31, ENGINE, QUINT, AND BC
ADDED TO STA. 45**

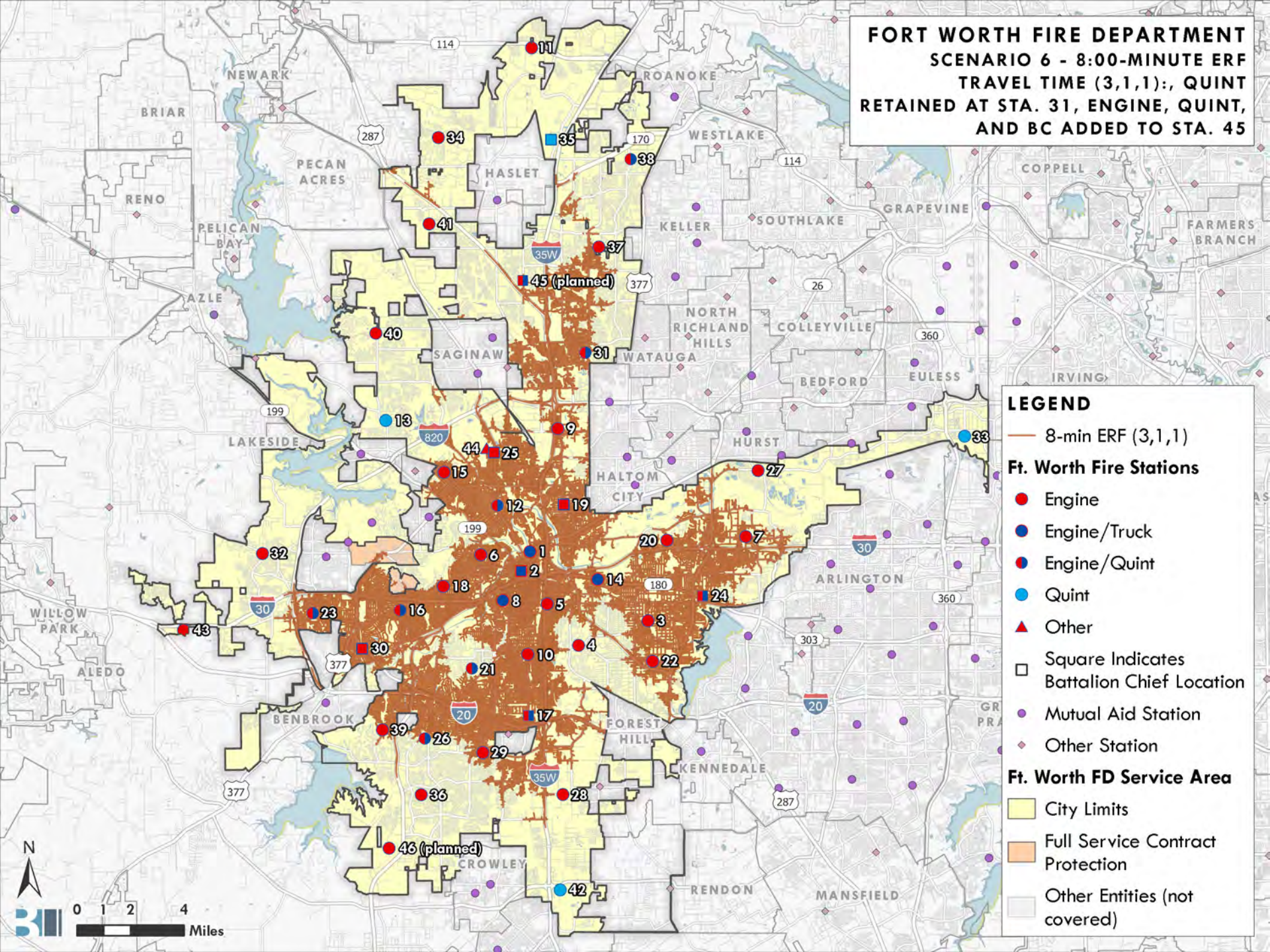


LEGEND

- 8-min ERF (4,1,2)
- Ft. Worth Fire Stations**
- Engine
- Engine/Truck
- Engine/Quint
- Quint
- ▲ Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- ◆ Other Station
- Ft. Worth FD Service Area**
- City Limits
- Full Service Contract Protection
- Other Entities (not covered)



**FORT WORTH FIRE DEPARTMENT
SCENARIO 6 - 8:00-MINUTE ERF
TRAVEL TIME (3,1,1); QUINT
RETAINED AT STA. 31, ENGINE, QUINT,
AND BC ADDED TO STA. 45**



LEGEND

- 8-min ERF (3,1,1)
- Ft. Worth Fire Stations**
 - Engine
 - Engine/Truck
 - Engine/Quint
 - Quint
 - Other
- Square Indicates Battalion Chief Location
- Mutual Aid Station
- Other Station
- Ft. Worth FD Service Area**
 - City Limits
 - Full Service Contract Protection
 - Other Entities (not covered)

