



STANDARDS OF COVER

MASTER PLAN/COMMUNITY RISK
ASSESSMENT

Chris Truty (ESCI Project Manager) – 1/9/2023

ESCI Emergency Services
Consulting International

45 RECOMMENDATIONS

24 Major

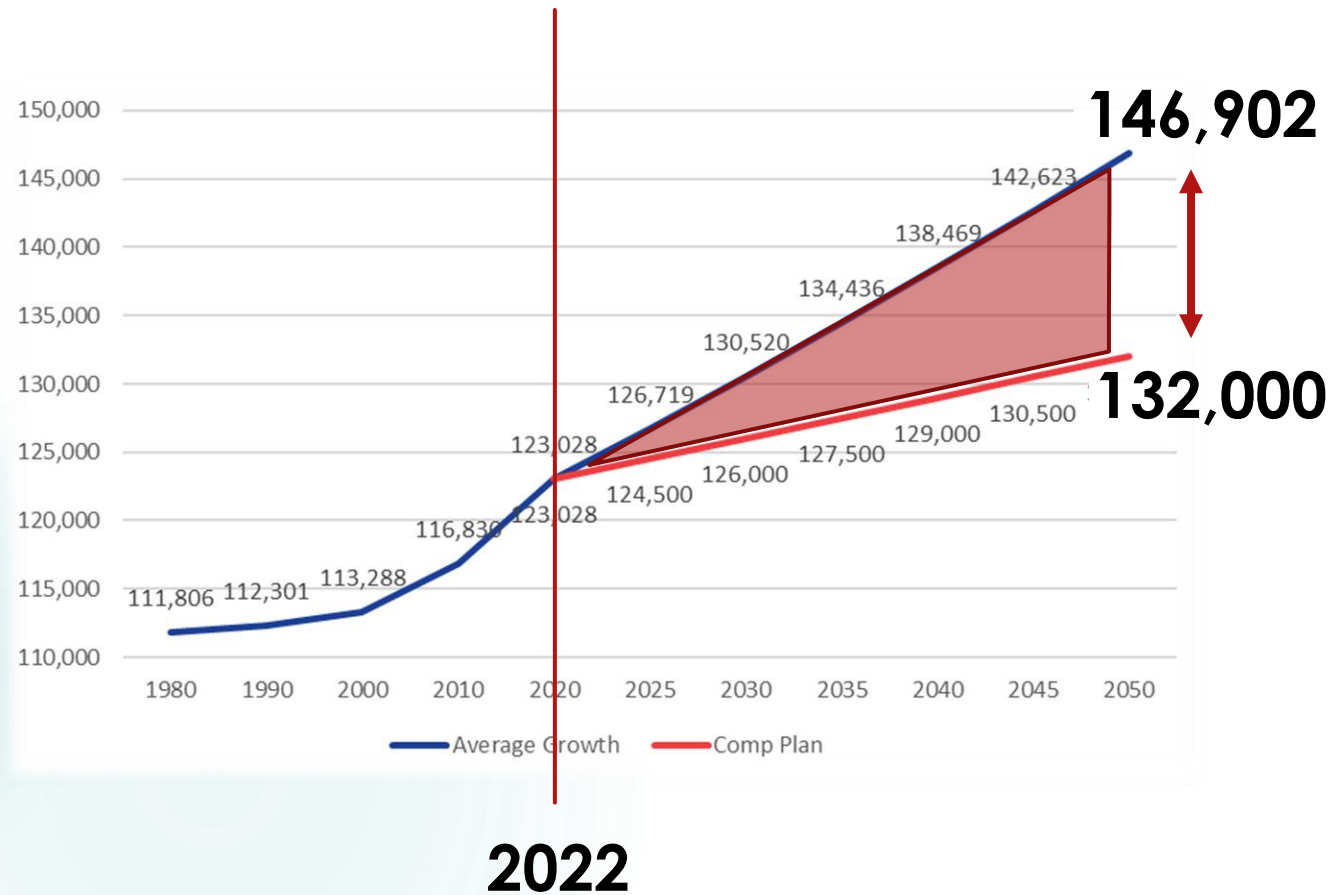
- Station relocations
- New station
- Additional Units
- Additional Manpower
- -----

21 Minor

- Policies
- Processes
- -----
- -----

Study
Recommendations

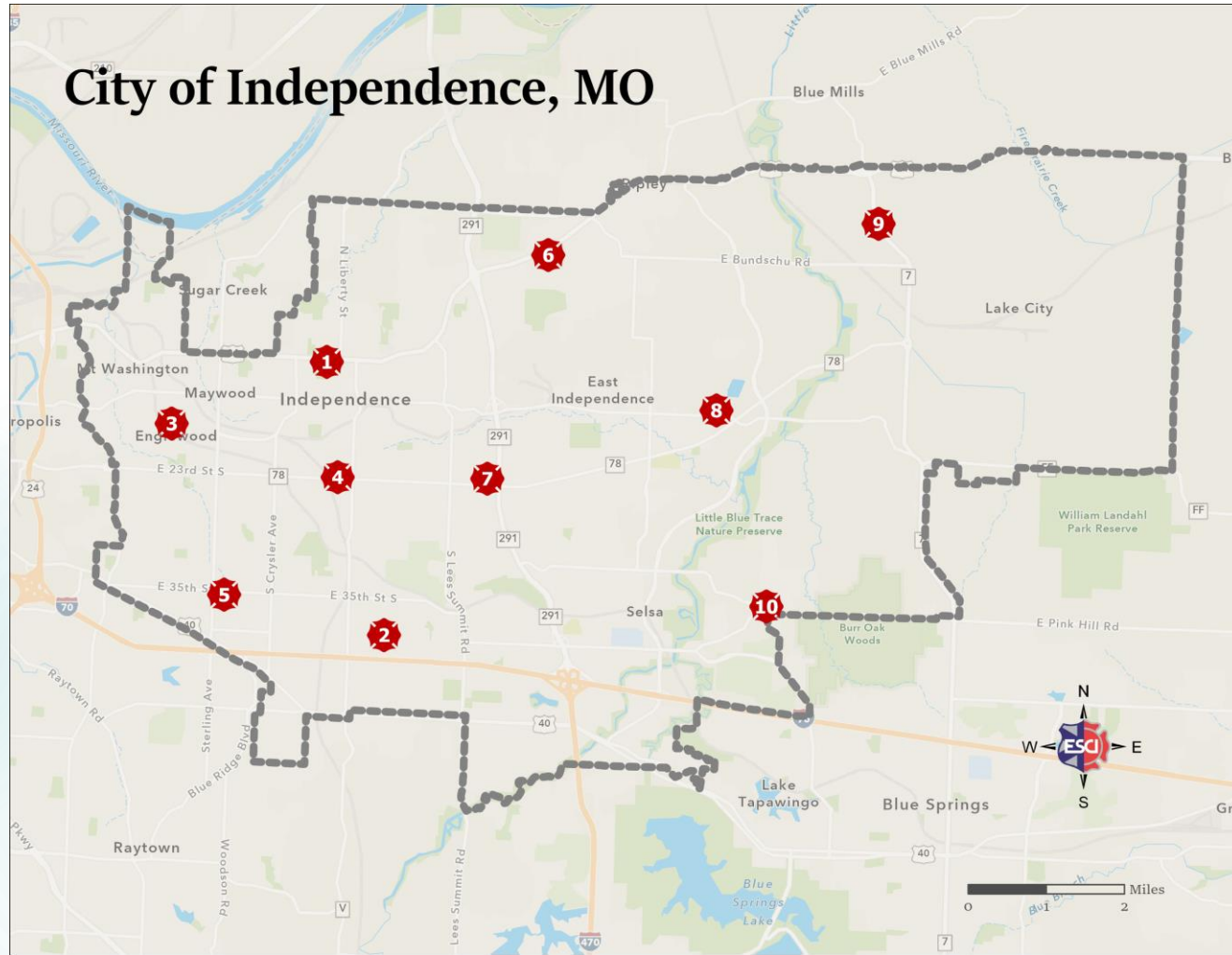
Population Projections





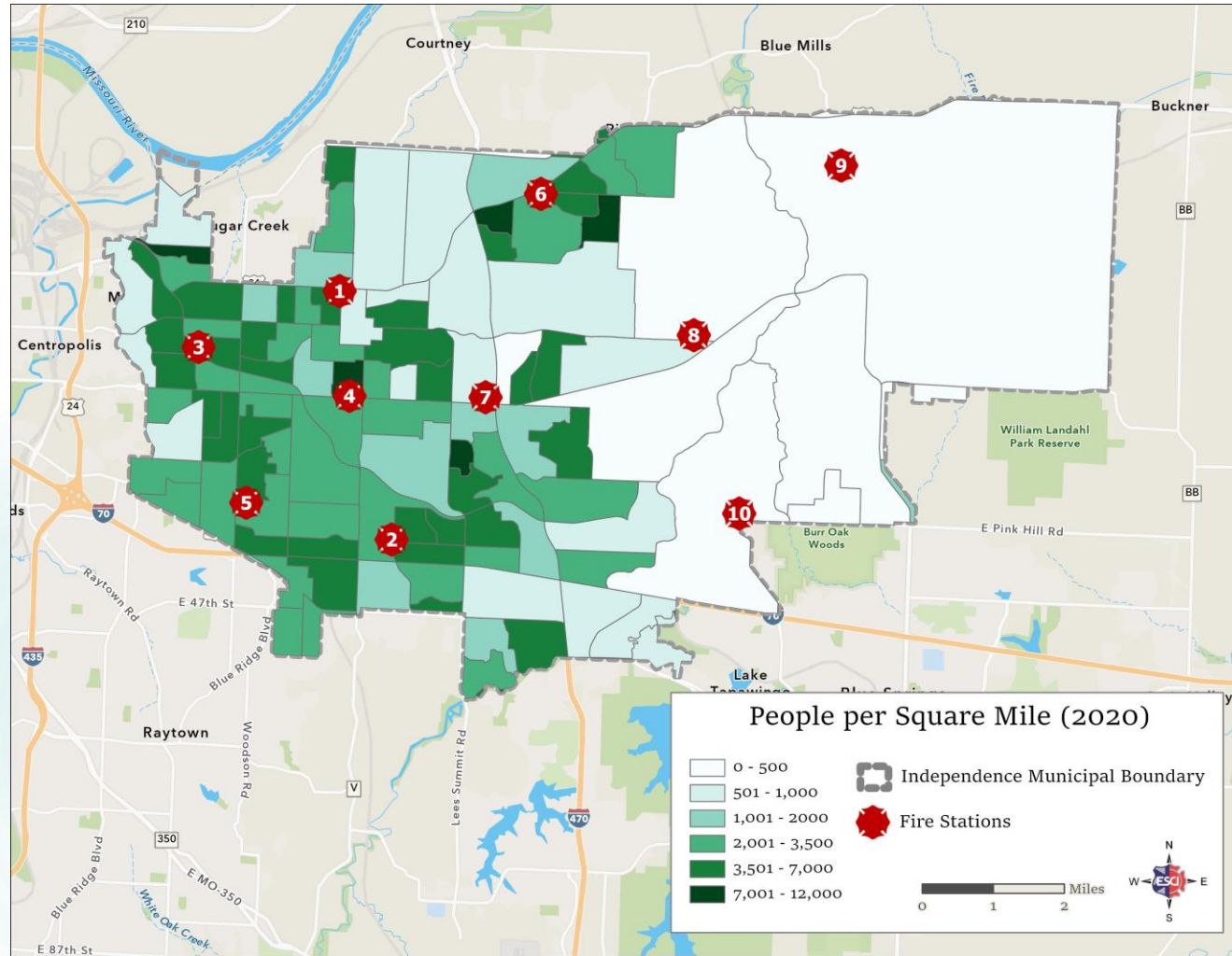
Projected Call Volume

City of Independence, MO

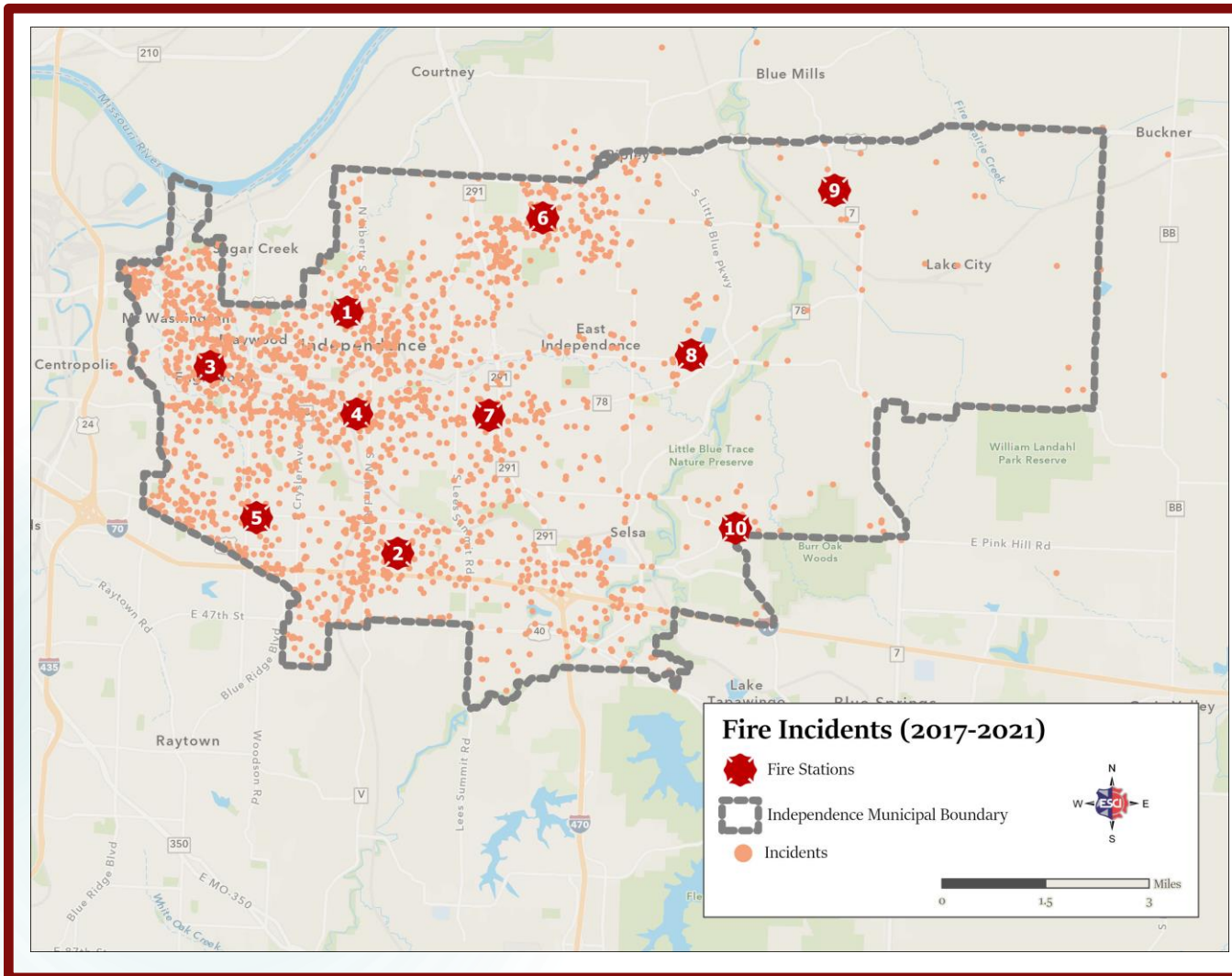


Current Fire Stations

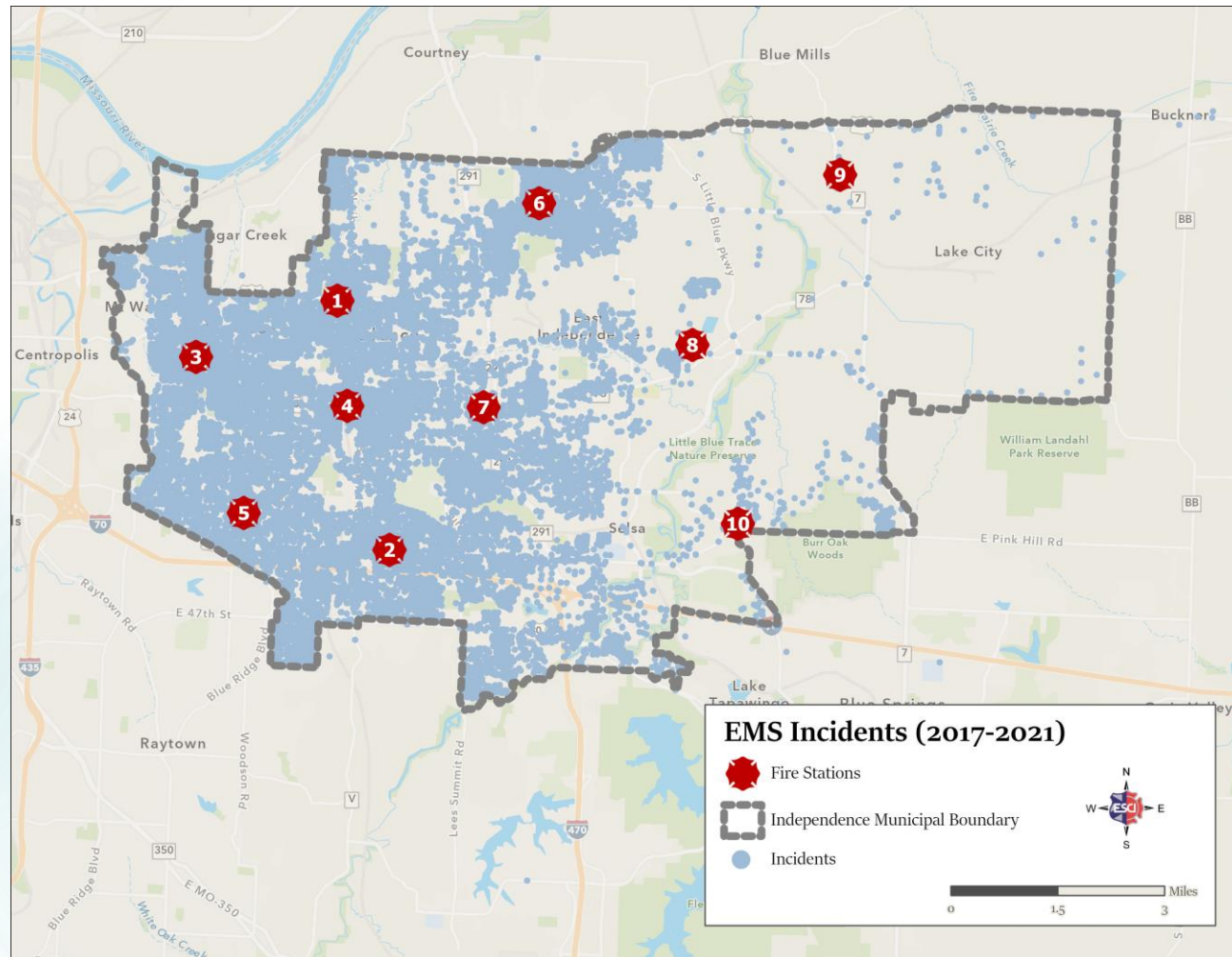
2020 Population Density



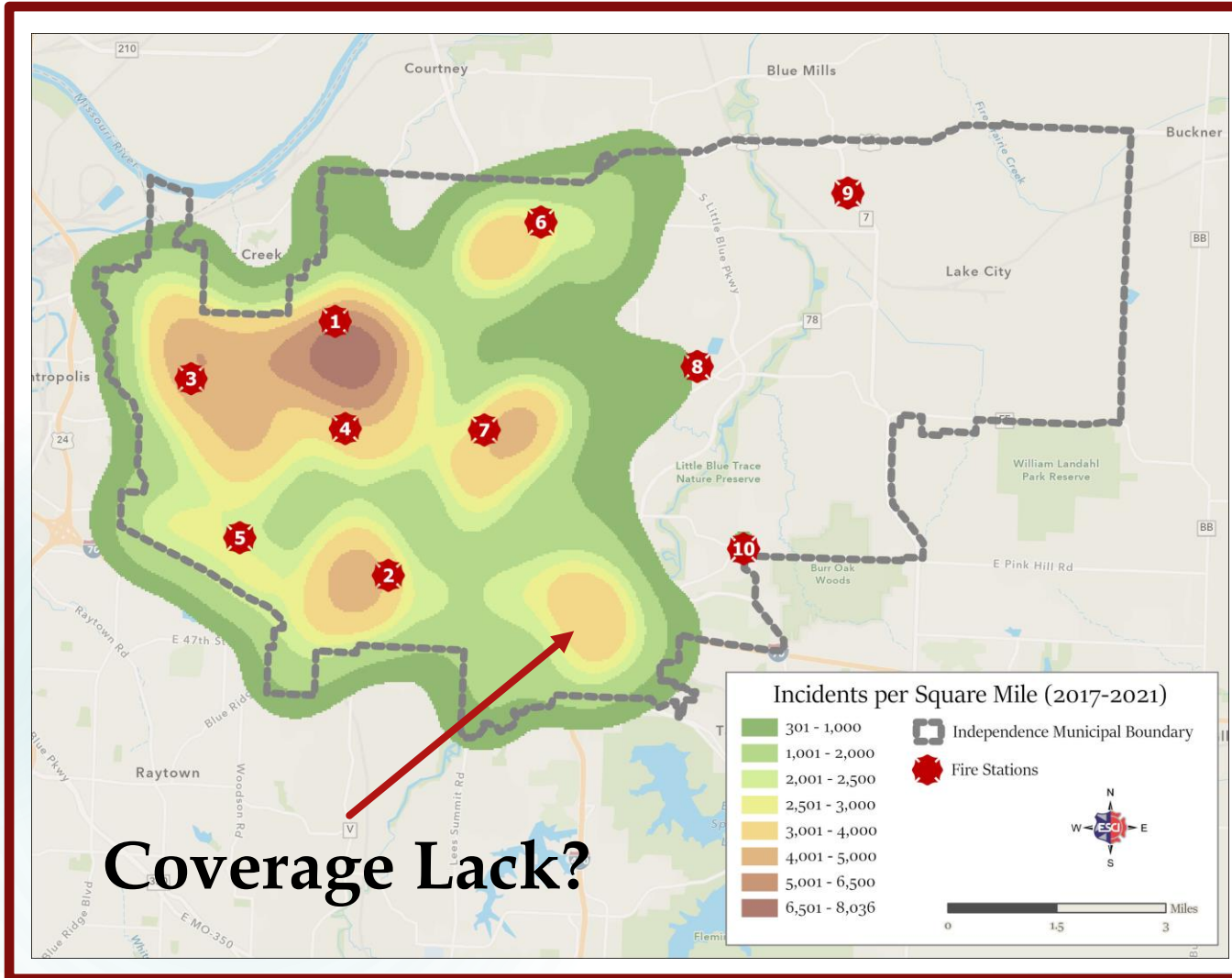
2017-2021 Fire Incident Points

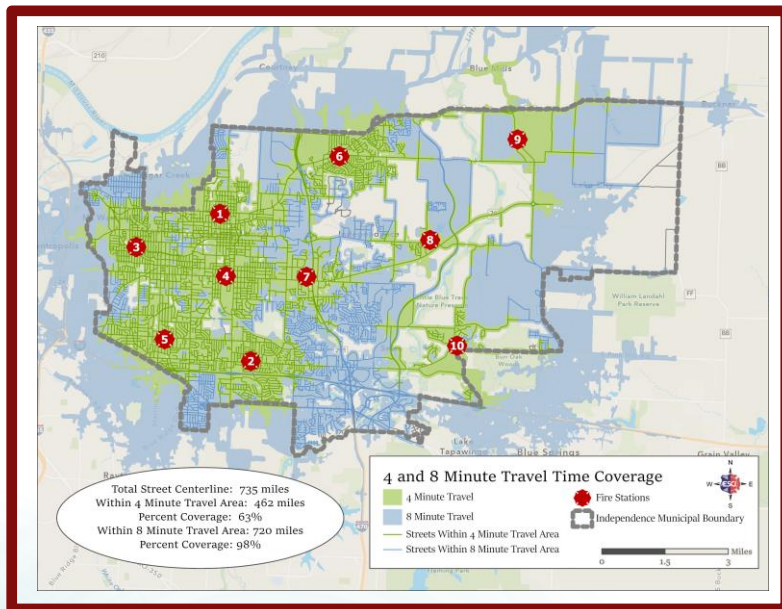


2017-2021 EMS Incident Points



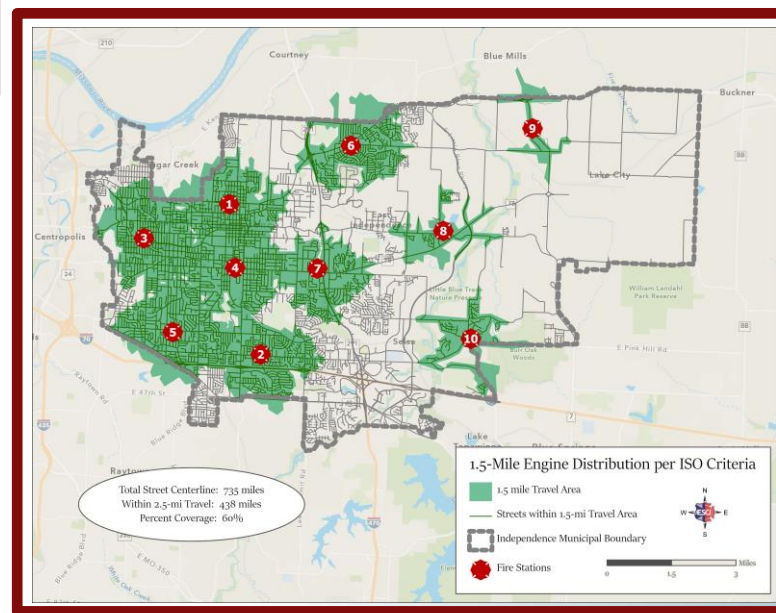
Incident Distribution (Density)



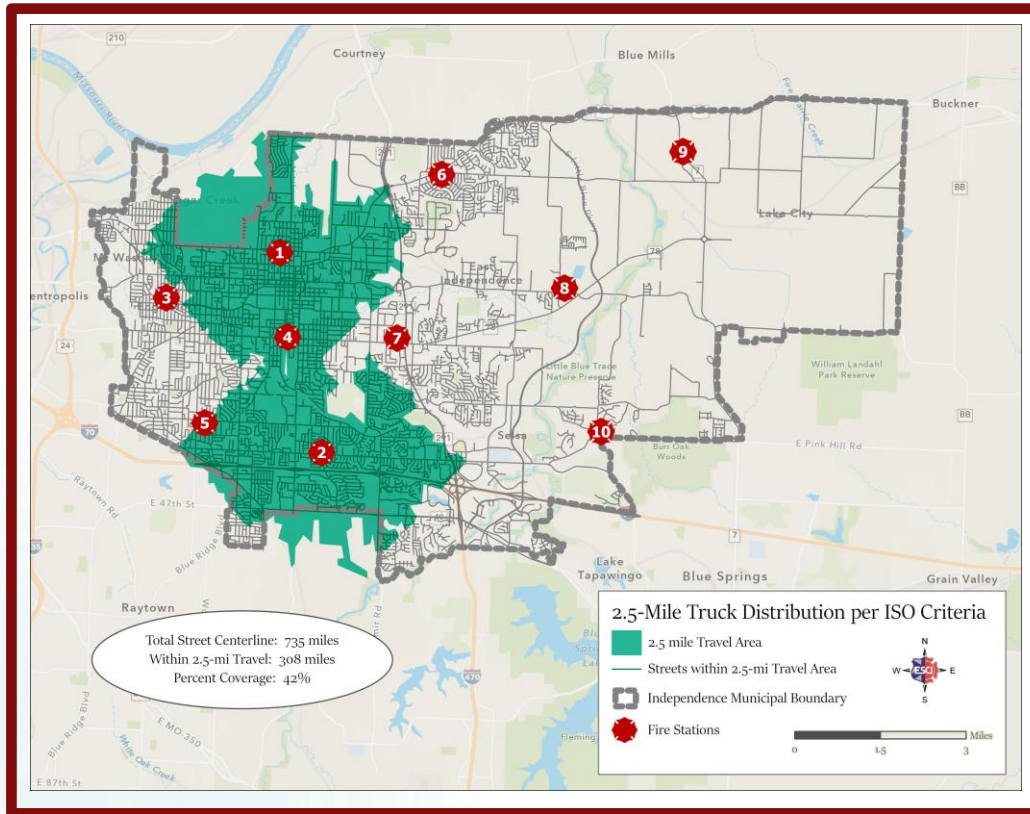


**< 4 Min
Response = 63%**

**1 ½ miles from
fire station = 60%**



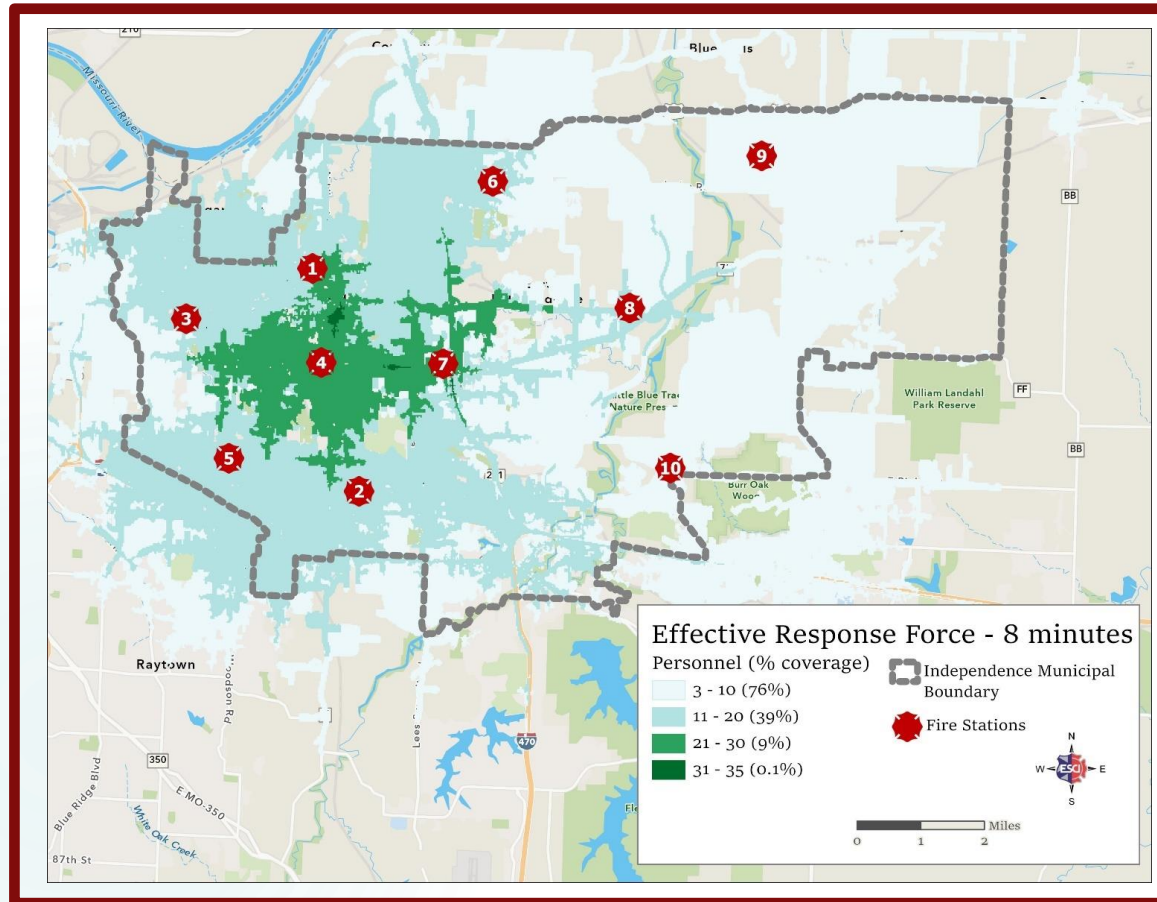
Pumper Criteria



**2 1/2 miles from ladder truck
fire station = 42%**

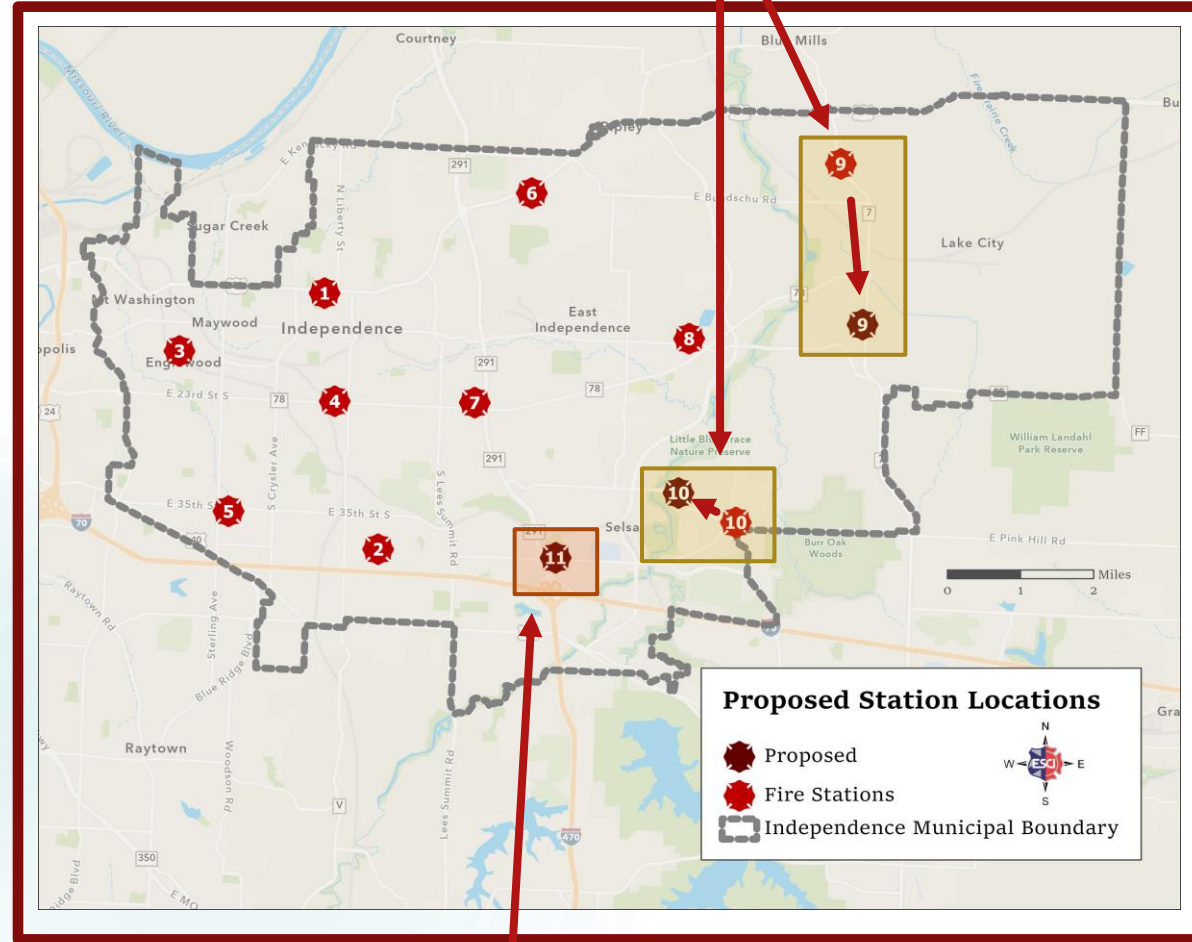
Truck Criteria

Current – 39%



Effective Response Force

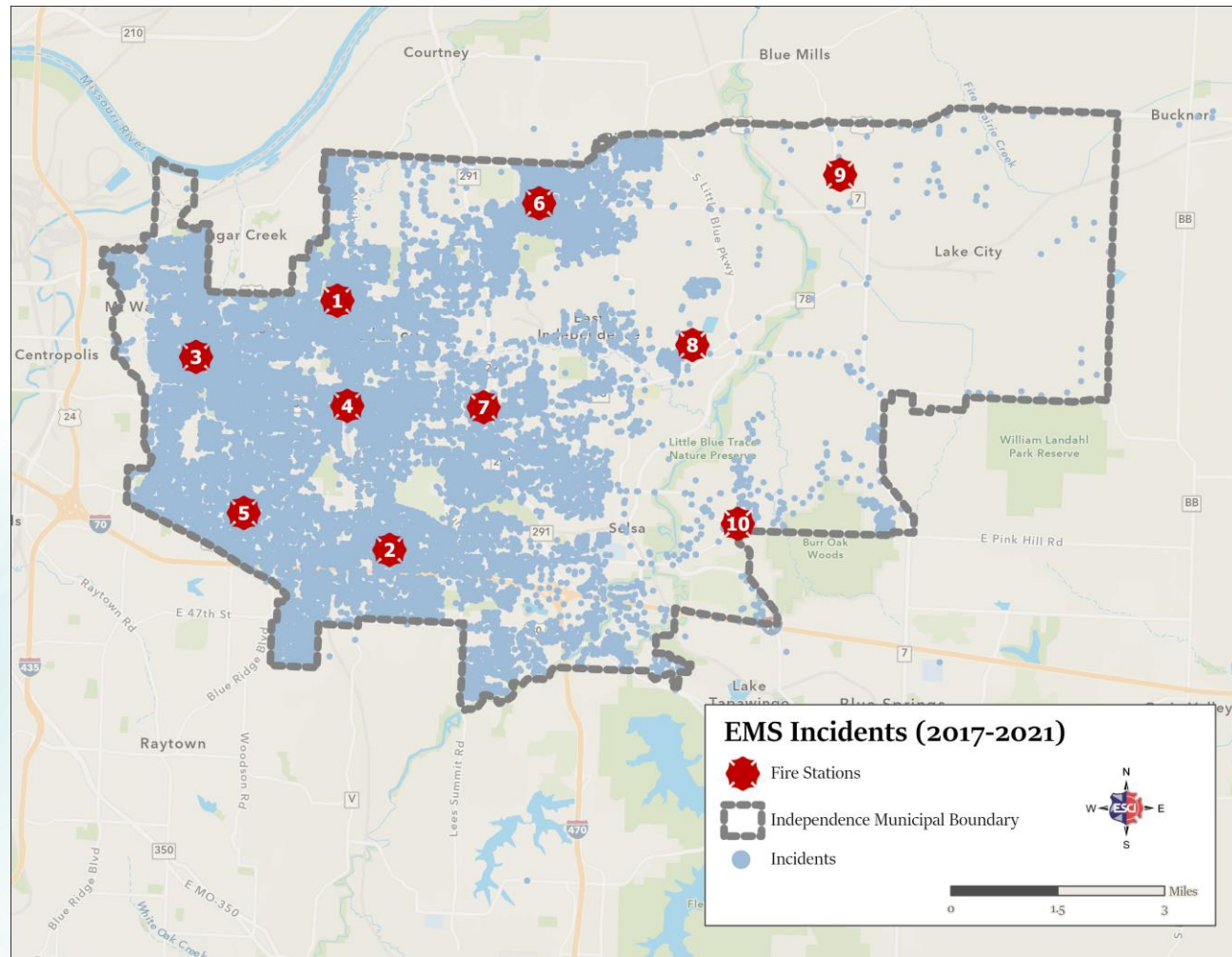
Relocated Fire Stations



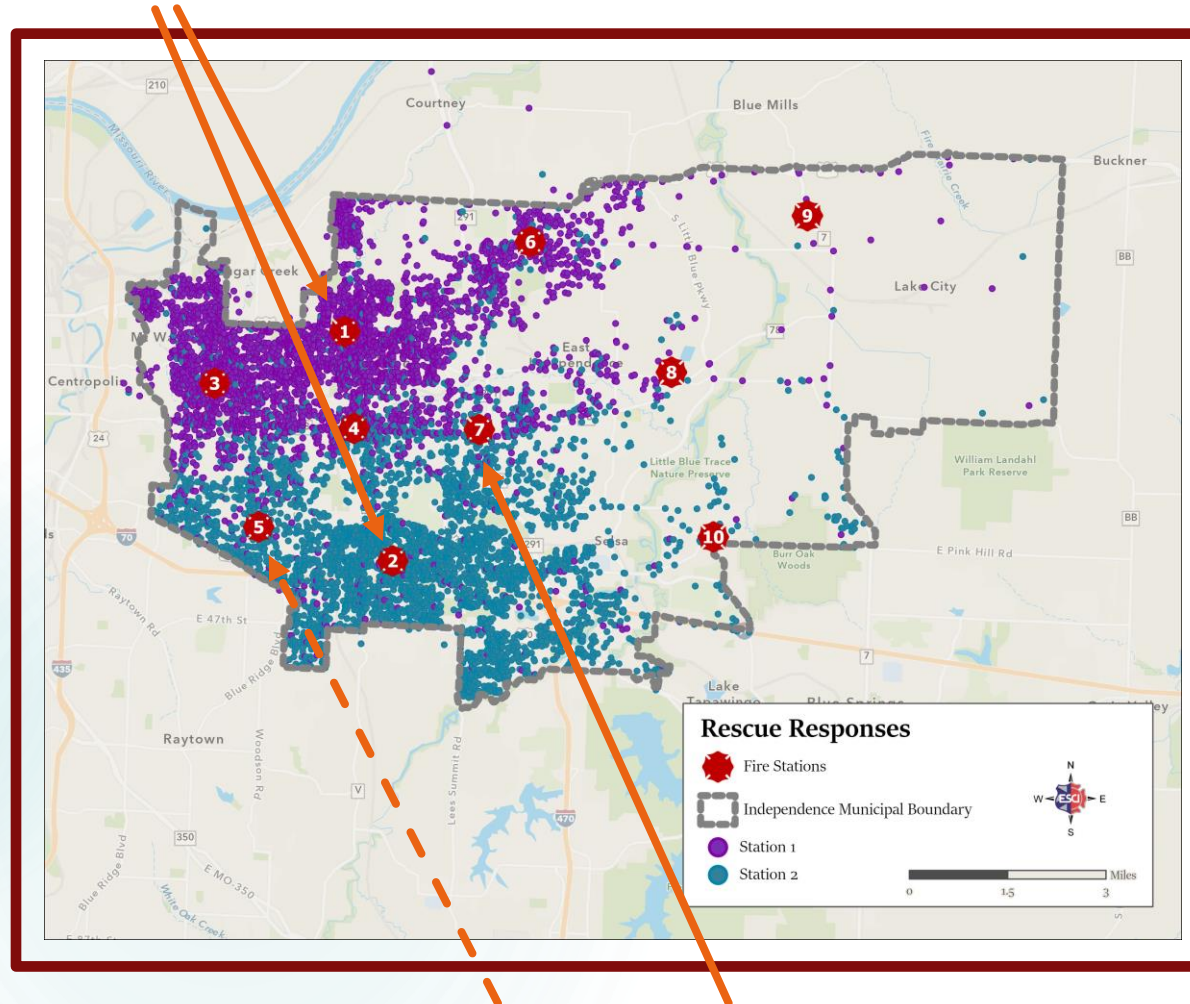
Proposed Fire Station Distribution

New Fire Station w/Pumper

2017-2021 EMS Incident Points



Existing Rescues (Stations 1 and 2)

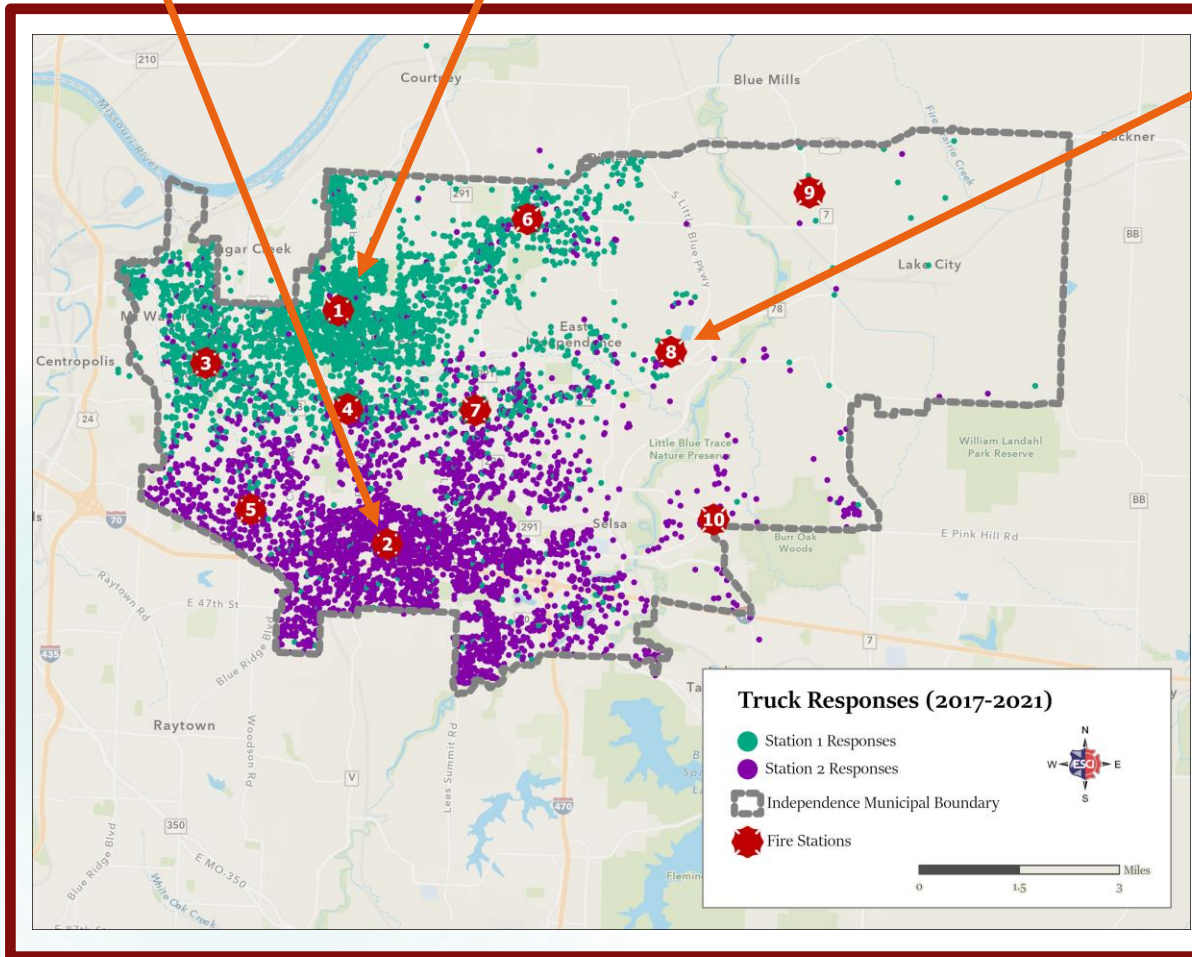


**Additional Rescue w/Move
(Stations 1, 5, and 7)**

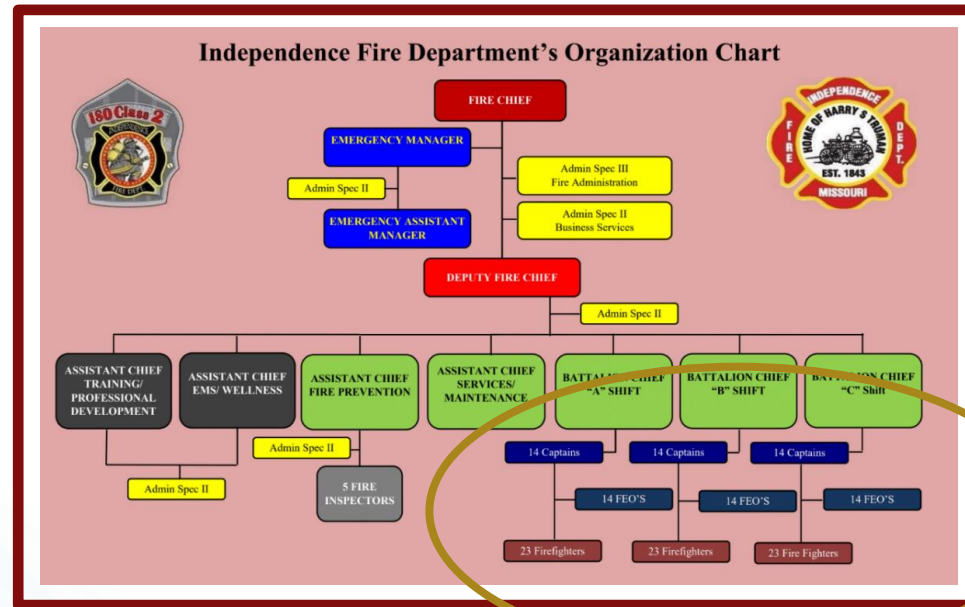
Rescue Distribution

Existing Trucks (Stations 1 and 2)

Additional
Truck
(T3 - Long-Term)



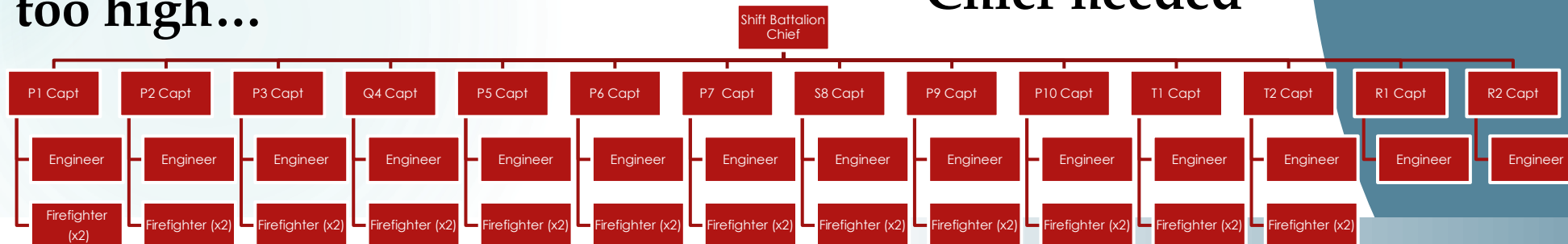
Truck Distribution

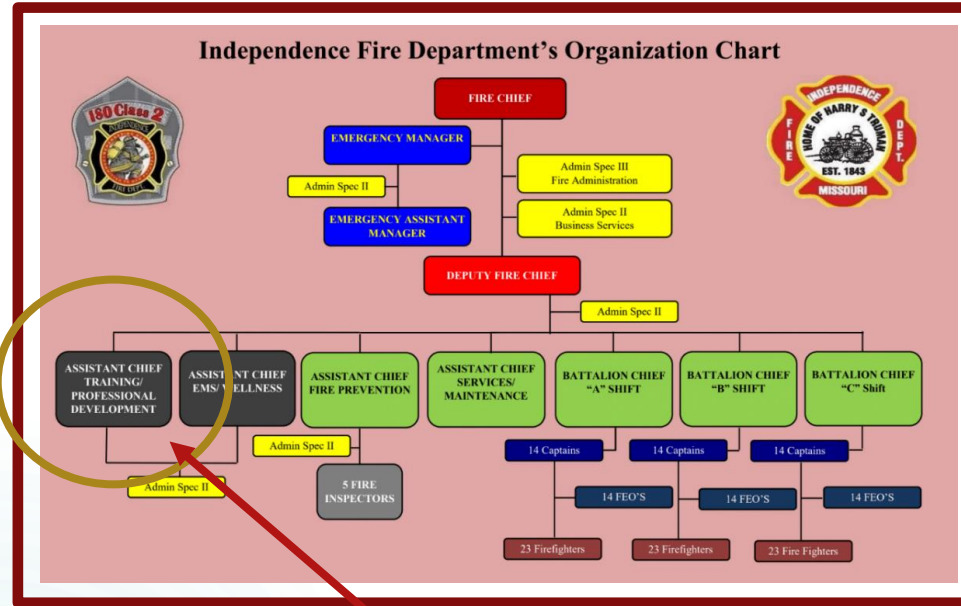


IFD Organizational Chart

Each Battalion Chief
has 14 direct reports,
too high...

...2nd Battalion
Chief needed

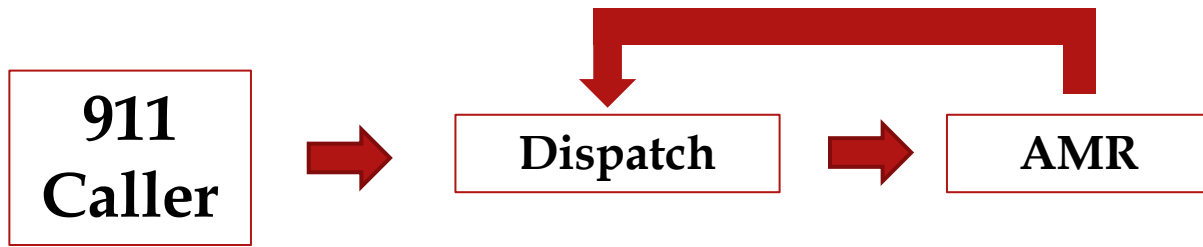




**1 Training
Officer for 177
members...more
needed**

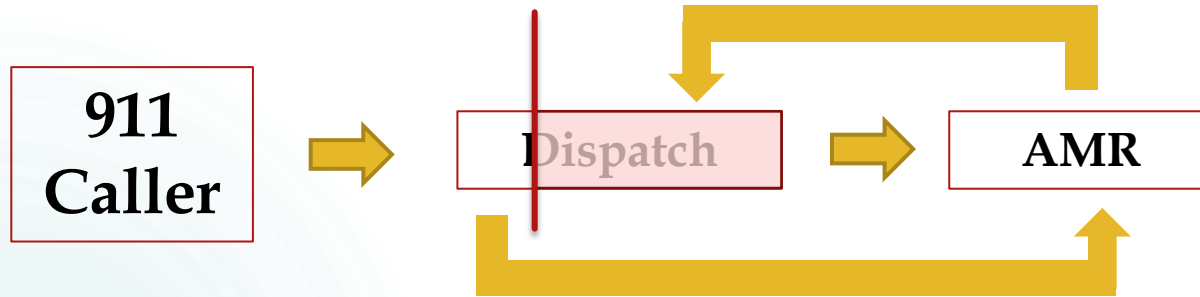


Training



OPTION

1)



2)

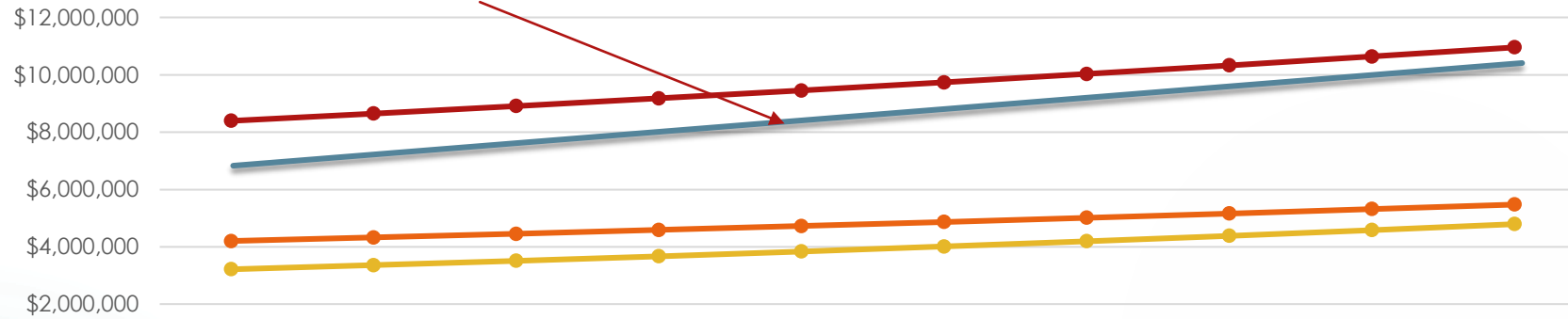


9-1-1 Dispatch

Year	Training Officers	Battalion Chief	E11/R3 Staffing	Annual Cost	Cumulative Cost
2023	\$303,800	\$496,304	\$2,418,318	\$3,218,422	\$3,218,422
2024	\$312,914	\$511,193	\$2,539,234	\$3,363,341	\$6,581,763
2025	\$322,301	\$526,529	\$2,666,196	\$3,515,026	\$10,096,790
2026	\$331,970	\$542,325	\$2,799,506	\$3,673,801	\$13,770,591
2027	\$341,930	\$558,594	\$2,939,481	\$3,840,005	\$17,610,596
2028	\$352,187	\$575,352	\$3,086,455	\$4,013,995	\$21,624,590
2029	\$362,753	\$592,613	\$3,240,778	\$4,196,144	\$25,820,734
2030	\$373,636	\$610,391	\$3,402,817	\$4,386,844	\$30,207,578
2031	\$384,845	\$628,703	\$3,572,958	\$4,586,505	\$34,794,083
2032	\$396,390	\$647,564	\$3,751,606	\$4,795,560	\$39,589,643

Anticipated Costs

Total Costs



	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
—●— Total Sales Tax	\$8,400,000	\$8,652,000	\$8,911,560	\$9,178,907	\$9,454,274	\$9,737,902	\$10,030,039	\$10,330,940	\$10,640,869	\$10,960,095
—●— Capital/Personnel Split	\$4,200,000	\$4,326,000	\$4,455,780	\$4,589,453	\$4,727,137	\$4,868,951	\$5,015,020	\$5,165,470	\$5,320,434	\$5,480,047
—●— Personnel Costs	\$3,218,422	\$3,363,341	\$3,515,026	\$3,673,801	\$3,840,005	\$4,013,995	\$4,196,144	\$4,386,844	\$4,586,505	\$4,795,560

PERSONNEL costs include:

- * Training Officers
- * 2nd Battalion Chief
- * E11 and R3 staffing

Revenues vs Costs

CAPITAL costs include:

- * New stations
- * New apparatus

SUGGESTED STEPS:

- 1) Establish 2nd Battalion Chief ■**
- 2) Create a new Rescue 3 at Station 7
and
relocate Rescue 2 to Station 5 ■**
- 3) Create a new Station 11 with
Pumper 11 ■**
- 4) Create two additional training
positions ■**

SUGGESTED Implementation Order

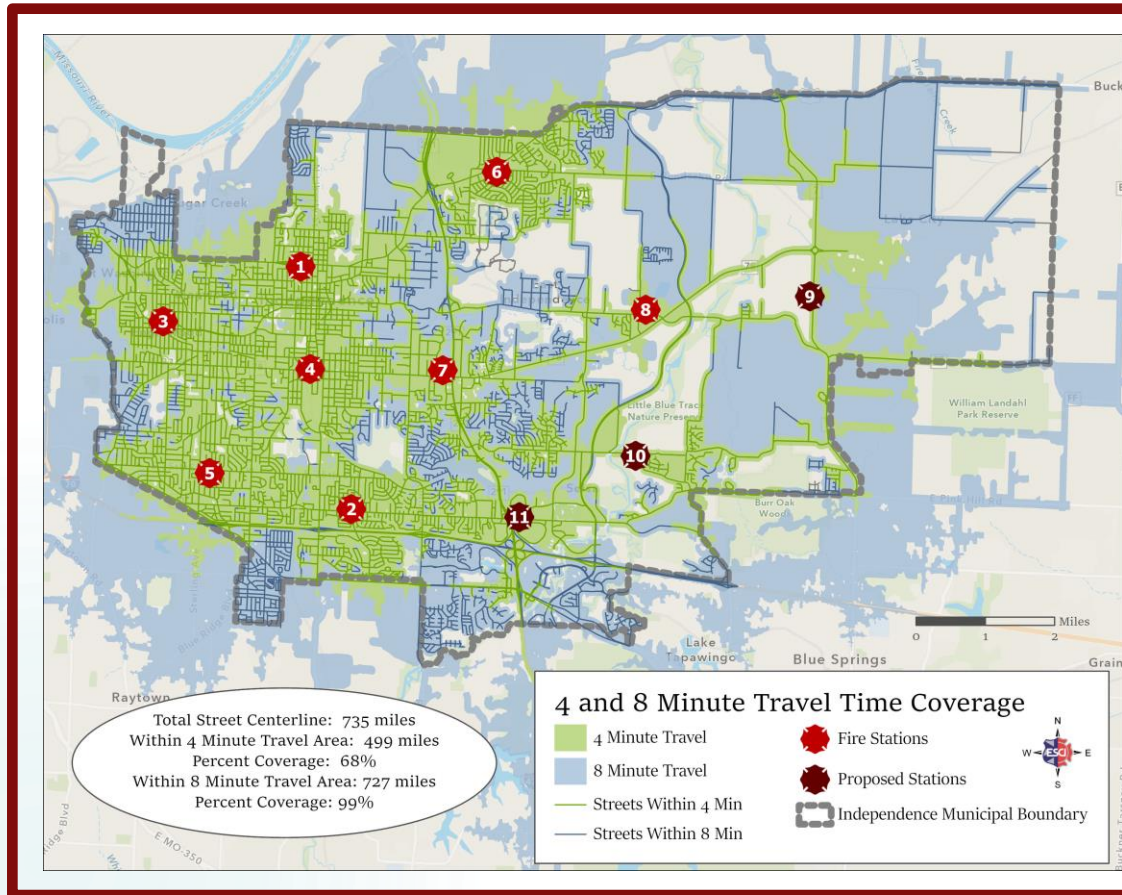
SUGGESTED STEPS:

5) Move Stations 9 and 10 ■

6) Rebuild Station 8
(and training facility) ■

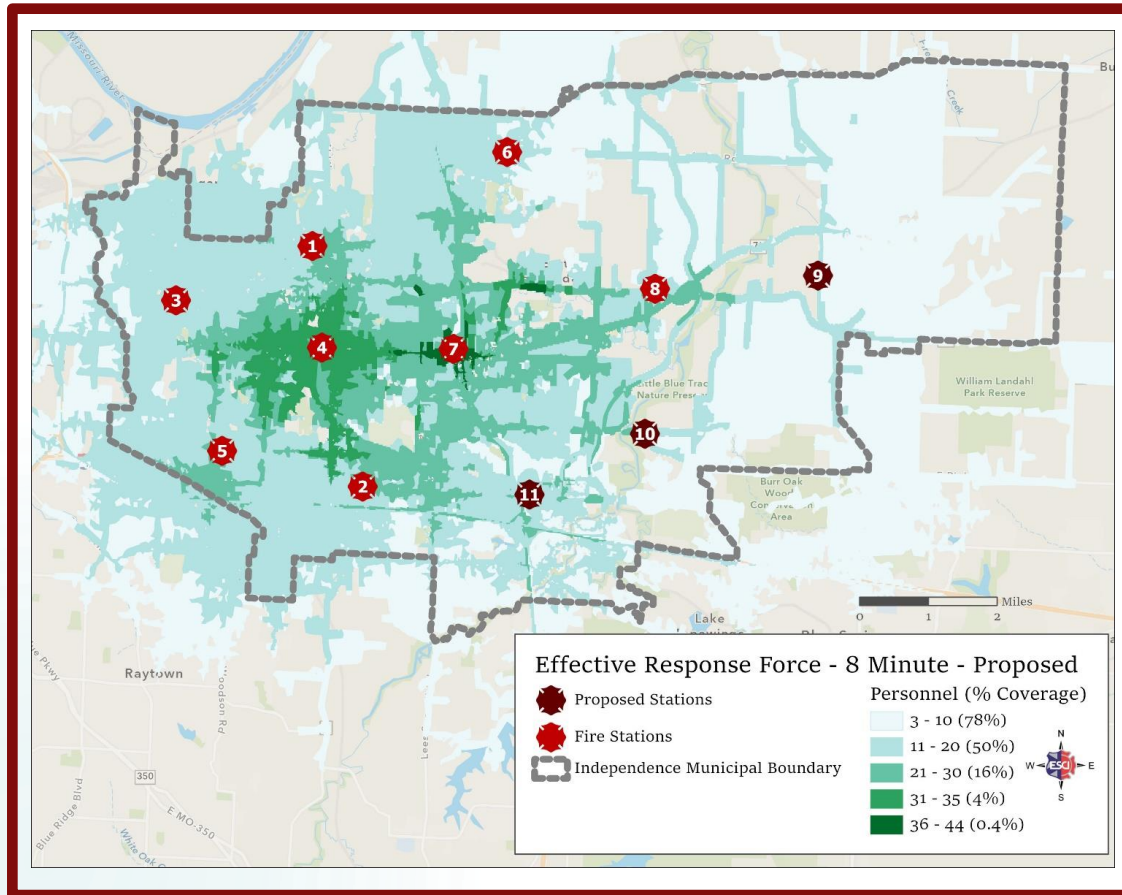
7) Rebuild Stations 5 and 6 and add
an addition to Station 2 ■

SUGGESTED Implementation Order



**Future – 68% (Old – 60%)
(with E11)**

NFPA Response (4 min Travel Time)



Future – 50% (Old – 39%)
(with E11, T3, R3)

**Effective
Response Force**

THANK YOU!

Questions?