



City of Dallas

Dallas Fire Rescue's Future Station Location Analysis

**Public Safety Committee
May 8, 2023**

Dominique Artis, Fire Chief
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Robert Borse, Admin. Captain
City of Dallas

Presentation Objective



- **Dallas Fire-Rescue strives to deliver efficient and effective emergency response to the City of Dallas.**
- **Data analytics are utilized to measure system performance and identify areas for improvement**
- **This presentation focuses on identified current and future facility needs for the strategic placement of additional resources to ensure excellent service delivery**
 - **First step of a multi-year project for expansion of available facilities and resources**
 - **Data driven process based on historical trends, current system performance, and future growth projections**



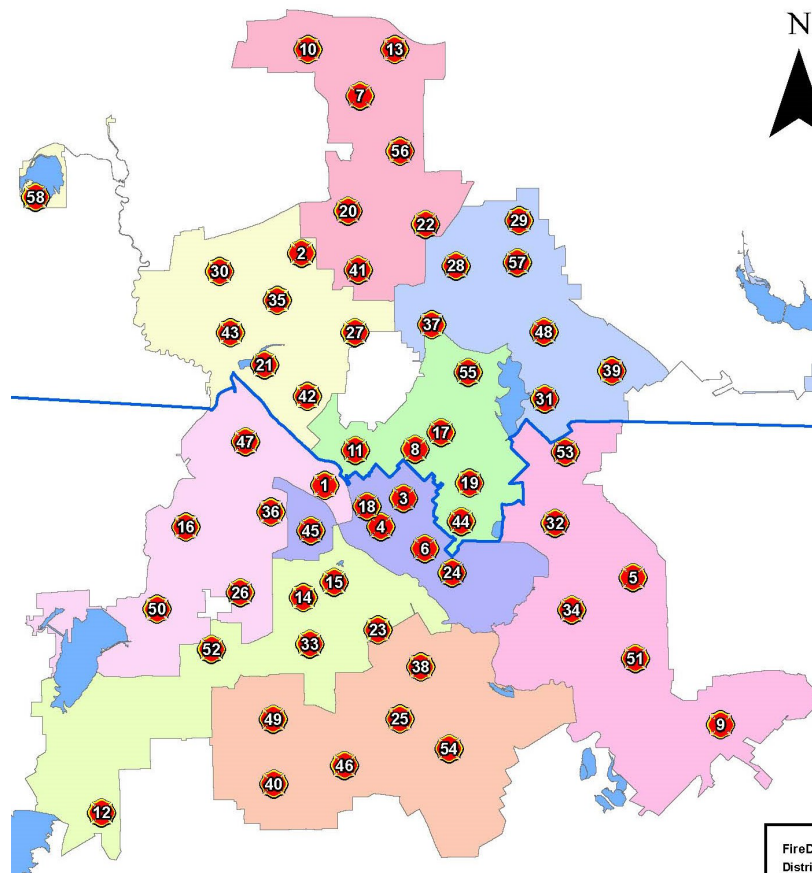
Presentation Overview



- **Current Resources**
- **Emergency Response Data**
- **Fire Station Site Optimization Studies**
- **Identified Optimal Sites**
- **Next Steps**



Current Resources



59 Fire Stations, strategically placed across the city, housing:

- **58 Fire Engines**
- **23 Fire Trucks**
- **46 Front-Line Rescues**
- **5 Peak Demand Rescues (10a-10p)**
- **Various Other Specialty Response Units**
 - Urban Search & Rescue, Hazardous Materials, Aircraft Rescue and Fire Fighting, Swift Water Rescue, Wildland, Boosters, etc.



Emergency Response Data



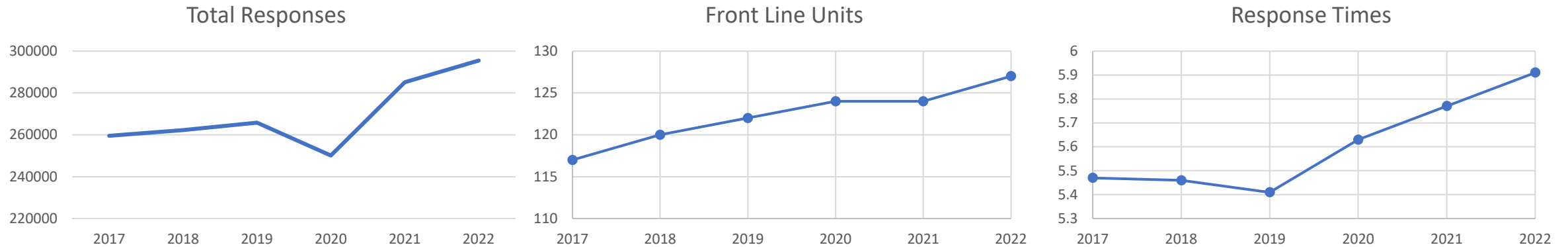
- **2022 Data:**
 - **Nearly 290,000 Responses**
 - Nearly 85% were EMS-related
 - **Response Times:**
 - 89% Structure Fire Responses within 5:20
 - 85% Medical Responses within 9:00
 - **Unit Hours of Utilization:**
 - 38% Rescue
 - Optimal 25-30%



Emergency Response Data



Historical Data Trends



Since 2017, DFR has added the following front-line units:

- 6 Rescues
- 2 Fire Engines
- 1 Fire Truck
- Call Volume has risen nearly 40,000 (15.4%) in that time
- Single Function Paramedic Program launched in 2022 to stabilize staffing of Peak Demand ambulances and increase number of available units on a more consistent basis



Fire Station Site Optimization Studies



- **2020 DFR – Harvard Business School Collaboration**
 - **Criteria:**
 - Incident Data
 - Response Plans
 - NFPA 1710 Standards
 - Responses that did not meet NFPA 1710 Standard
 - Commercial & Industrial Real Estate Development Announcements
 - Real Estate Prices based on Square Foot Averages
 - Population Changes
 - Identified geographical areas needing response improvement
 - One area is the site of new Station 59
 - 201 N. Jim Miller Road, opened July 8, 2022



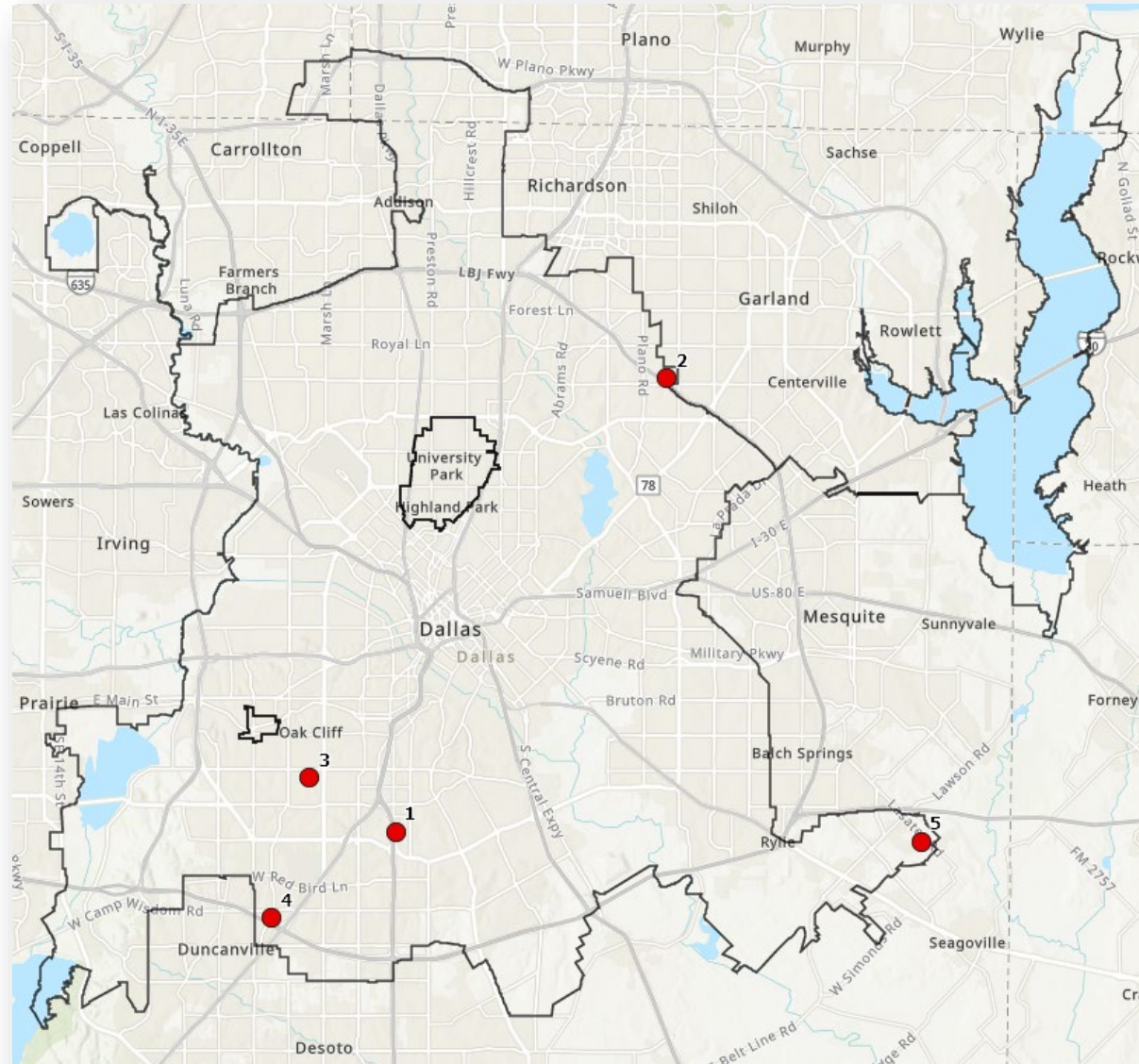
Fire Station Site Optimization Studies



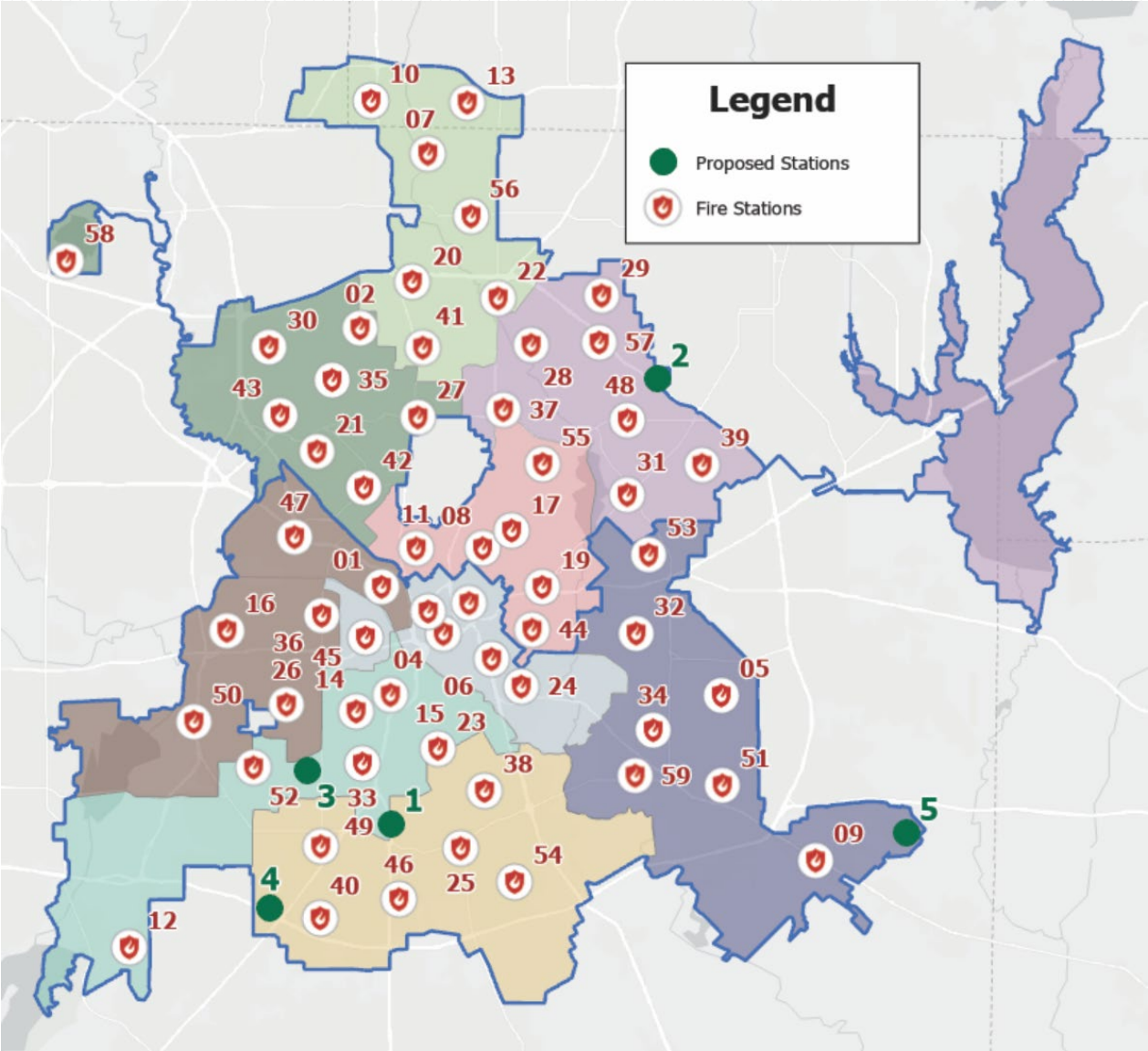
- **2022 DFR – DBI Collaboration**
 - **Built on previous study with Harvard**
 - Need for updated statistics and analytics
 - Post-pandemic
 - New growth projections
 - **Criteria:**
 - Total calls outside of NFPA response time standards
 - 2045 NCTCOG Projected Population
 - Distance to nearest Station
 - Total calls outside of NFPA response time standards in adjacent areas
 - Equity Atlas score
 - Change over time 2019 to 2021 of response time metrics



Identified Optimal Sites



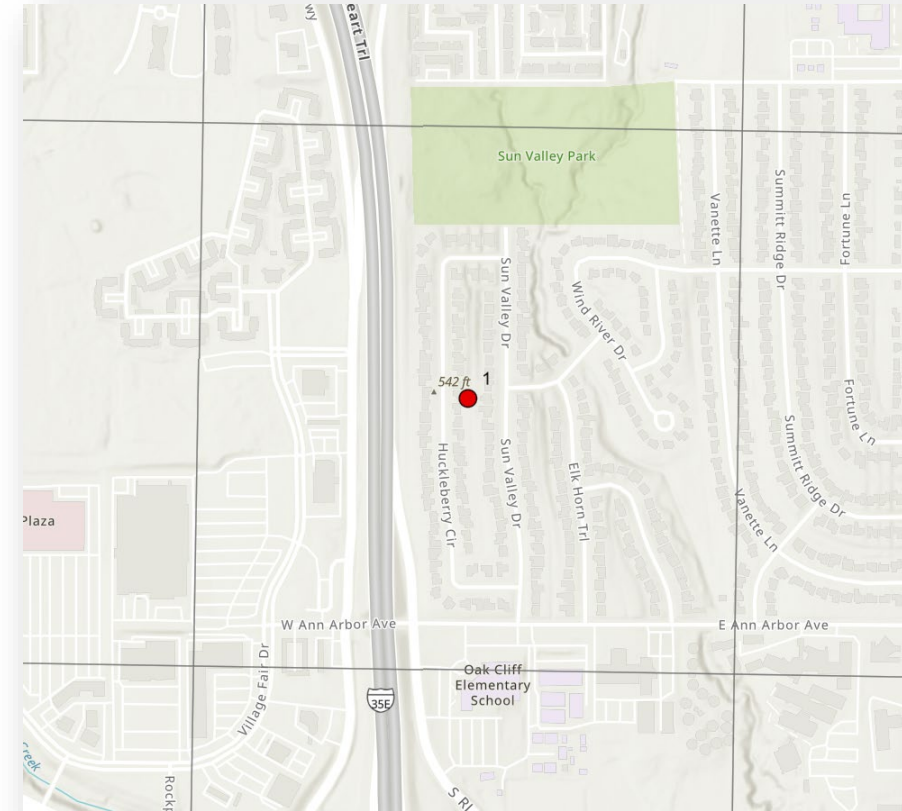
Identified Optimal Sites



Site 1 South RL Thornton Fwy and Loop 12



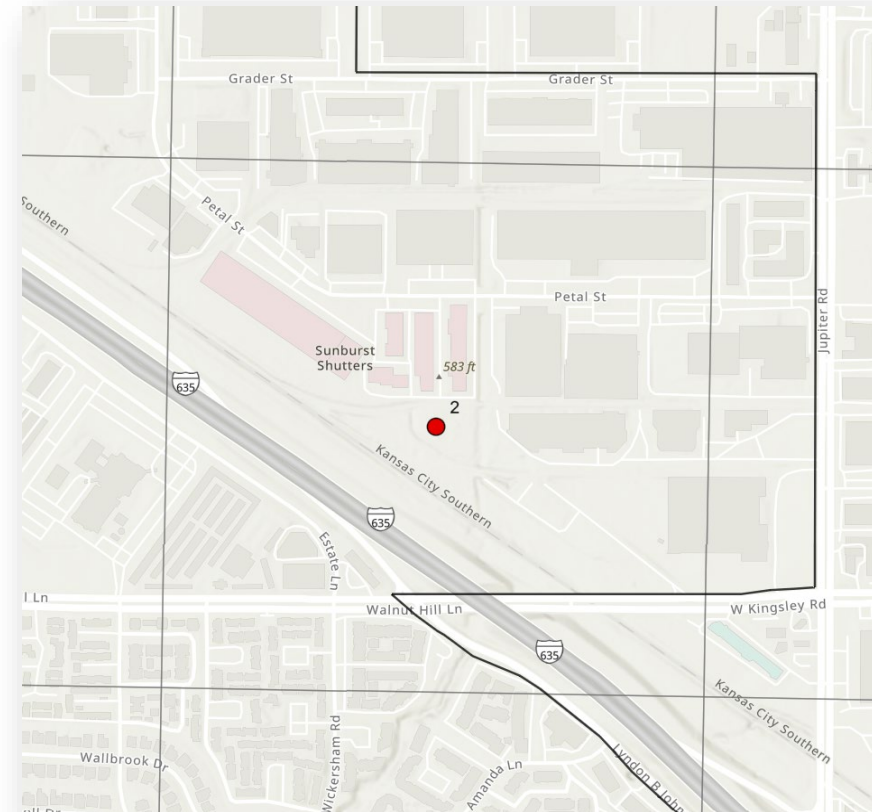
Category Name	Scoring
Travel or Response Time (from proposed stations)	5
Total calls outside of established NFPA response times	5
2045 NCTCOG Projected Population	5
Distance to nearest Station	4
Total calls outside of established NFPA response times in adjacent areas	5
Equity Atlas score	5
Change over time 2019 to 2021 of response time metrics	5
Total Score	4.85



Site 2 East 635 at West Kingsley Rd



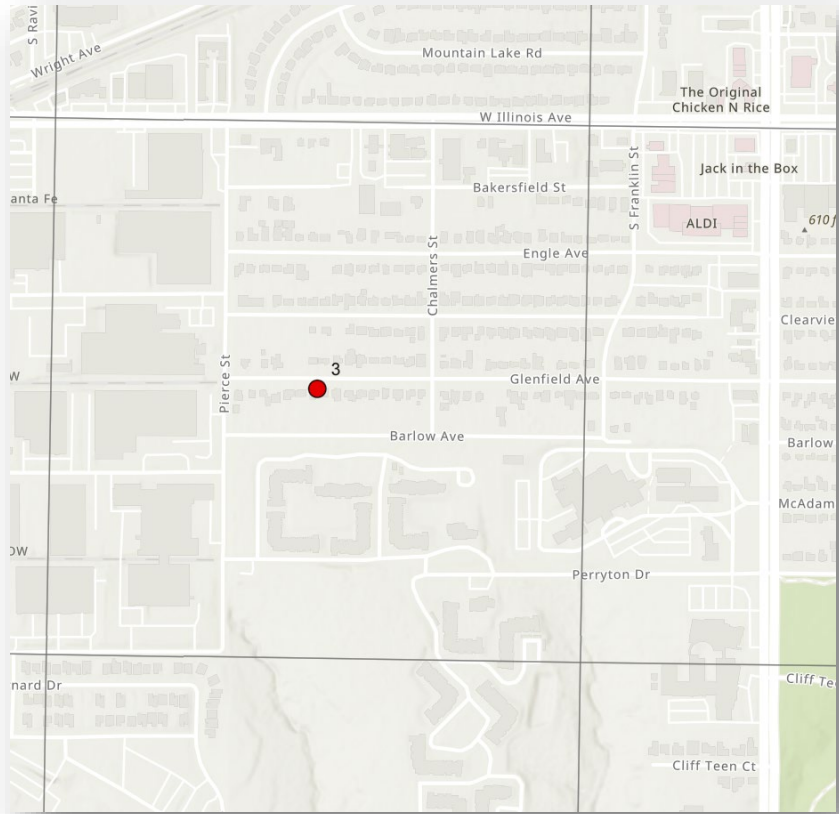
Category Name	Scoring
Travel or Response Time (from proposed stations)	5
Total calls outside of established NFPA response times	5
2045 NCTCOG Projected Population	5
Distance to nearest Station	4
Total calls outside of established NFPA response times in adjacent areas	5
Equity Atlas score	4
Change over time 2019 to 2021 of response time metrics	5
Total Score	4.8



Site 3 W Illinois Ave at S Hampton Rd



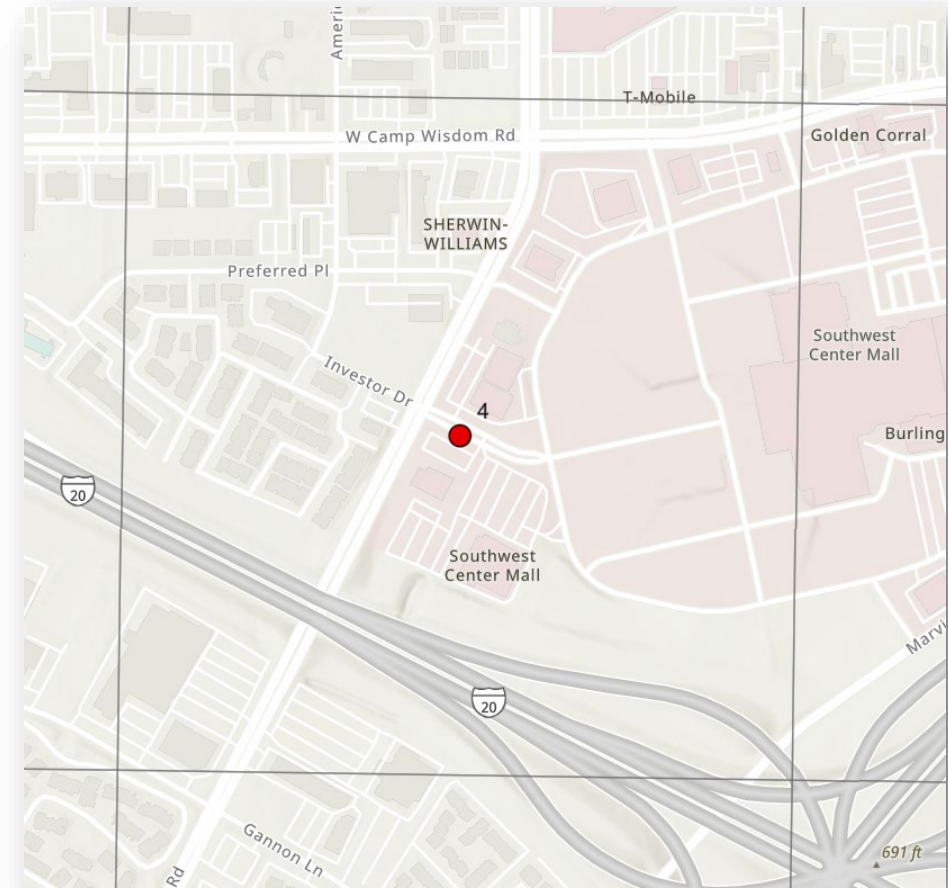
Category Name	Scoring
Travel or Response Time (from proposed stations)	5
Total calls outside of established NFPA response times	5
2045 NCTCOG Projected Population	5
Distance to nearest Station	4
Total calls outside of established NFPA response times in adjacent areas	4
Equity Atlas score	5
Change over time 2019 to 2021 of response time metrics	4
Total Score	4.75



Site 4 I-20 at S Westmoreland Rd



Category Name	Scoring
Travel or Response Time (from proposed stations)	4
Total calls outside of established NFPA response times	5
2045 NCTCOG Projected Population	5
Distance to nearest Station	4
Total calls outside of established NFPA response times in adjacent areas	5
Equity Atlas score	4
Change over time 2019 to 2021 of response time metrics	4
Total Score	4.75



Site 5 Lasater Rd



Category Name	Scoring
Travel or Response Time (from proposed stations)	5
Total calls outside of established NFPA response times	5
2045 NCTCOG Projected Population	5
Distance to nearest Station	5
Total calls outside of established NFPA response times in adjacent areas	3
Equity Atlas score	2
Change over time 2019 to 2021 of response time metrics	4
Total Score	4.70



Next Steps



- **Collaboration with Real Estate Division**
 - Identification of potential sites within close proximity of optimal station locations
- **Collaboration with Bond Office**
 - Potential timeline for implementation: 3-5 years





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