

# THE CITY OF HUDSON

FIRE & EMS STUDY-K2M RESPONSE TO QUESTIONS

February 18, 2025

## Phase 1 Clarification: Four Firefighter Staffing

- The Recommendation was to establish One Company with four firefighter staffing ready for response, 24 hrs/day.
- Per OSHA (Two-In, Two-Out) Standard, this is the minimum number of personnel necessary to take interior suppression action at a structure fire when there is no rescue component.

Options that meet Standard:

Establish a 4-0 Engine Company with Duty Chief responding as they currently do (not necessarily with crew in station) in a Command role

Establish a 3-0 Engine Company with Duty Chief in station, responding con-currently.

Assemble a company from available staff in station during the day and bringing paid call staff in at night.

Options that fall-below Standard:

Establish a 3-D Engine Company with Duty Chief responding as they currently do (separate from crew) in a Command role







# Phase 1 Clarification: Can Fire and EMS stay in the existing station for 10 Years?

K2M has created a five -phase approach to remodeling the existing station. This gives the City time and decision points related to capital expenses for Fire and EMS.

Phase 1: Create Dorm space for firefighters. Create air vestibules for Fire and EMS, Create space for turnout storage, relocate fitness room. Address K2M FCA "Immediate" list.

Phase 2: Relocate most offices to PD side in preparation for Phase 3. Remodel Fire Day Room and Kitchen. Address K2M FCA "Near-Term" and "Full-Reno" List.

Phase 3: FMS Dorms and Rathroom 1 Male/Female Lockers

Phase 4: EMS Day Room and Kitchen, Offices

Phase 5: Fire and EMS Decon, Utility Storage

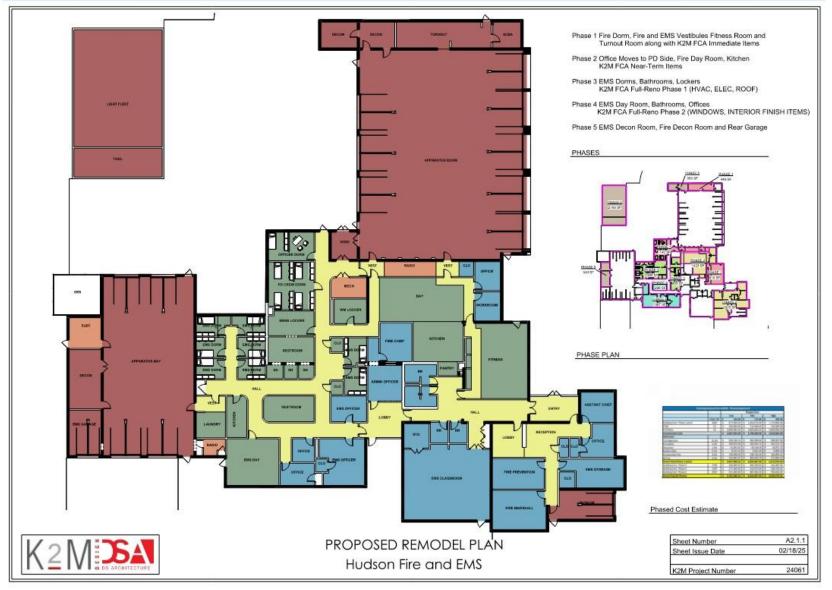








## **Interim Modification Plan:**











# Interim Modification Plan: Preliminary Cost Estimate

Existing Hudson Fire & EMS - Phased Approach							
		Project Cost					
		Low		Mid		High	
	Cost / SF	\$	150.00	\$	175.00	\$	200.00
BuildingCost - Phase 1 and 2	5853	\$	877,950.00	\$	1,024,275.00	\$	1,170,600.00
FF&E	LS	\$	100,000.00	\$	115,000.00	\$	130,000.00
FCAWork	LS	\$	2,609,984.00	\$	2,609,984.00	\$	2,609,984.00
Construction Cost		\$	3,587,934.00	\$	3,749,259.00	\$	3,910,584.00
Soft Costs							
Contingencies	15.0%	\$	538,190.10	\$	562,388.85	\$	586,587.60
Escalation	4.5%	\$	185,675.58	\$	194,024.15	\$	202,372.72
Insurance	1.0%	\$	41,261.24	\$	43,116.48	\$	44,971.72
Builders Risk	0.2%	\$	8,252.25	\$	8,623.30	\$	8,994.34
Construction Fee	3.0%	\$	130,839.40	\$	136,722.35	\$	142,605.31
AE Fee	8.0%	\$	344,943.97	\$	360,453.76	\$	375,963.55
Grand Total (Phase 1 and 2)		\$	4,837,096.54	\$	5,054,587.89	\$	5,272,079.24
BuildingCost - Phase 3	2180	\$	436,000.00	\$	490,500.00	\$	545,000.00
BuildingCost - Phase4	1387	\$	277,400.00	\$	312,075.00	\$	346,750.00
BuildingCost - Phase 5	3057	\$	611,400.00	\$	687,825.00	\$	764,250.00
Grand Total All Phases		\$	6,161,896.54	\$	6,544,987.89	\$	6,928,079.24









#### Phase 3 Clarification: When will Hudson Need Another Fire Station?

### There are several factors that go into this decision:

Are our units too busy? Monitor Unit Utilization, when it reaches 25% or more it is time to consider additional units. When it goes above 30%,

pull the trigger.

Is our staffing adequate? Are we meeting minimum staffing per Standards?

Are we meeting response time goals? Establish response time standards and evaluate periodically.







## Thank You











# Addendum Graphics











## NFPA 1210 Standard for Providing Fire and Emergency Services to the Public

- An NFPA Organizational Statement serves as a structured document that defines:
- Mission & Objectives The department's core purpose, such as fire protection, emergency response, prevention, and education.
- Structure & Leadership The hierarchy, including leadership roles, command structure, and operational divisions.
- Service Capabilities The scope of services provided, such as fire suppression, EMS, technical rescue, hazardous materials response, and public safety programs.
- Personnel & Training Staffing levels, required certifications, ongoing training, and adherence to NFPA standards for firefighter safety and preparedness.
- **Equipment & Facilities** The apparatus, tools, stations, and infrastructure supporting operations.
- Policies & Procedures Compliance with NFPA codes, fireground operations, response protocols, and risk management strategies.

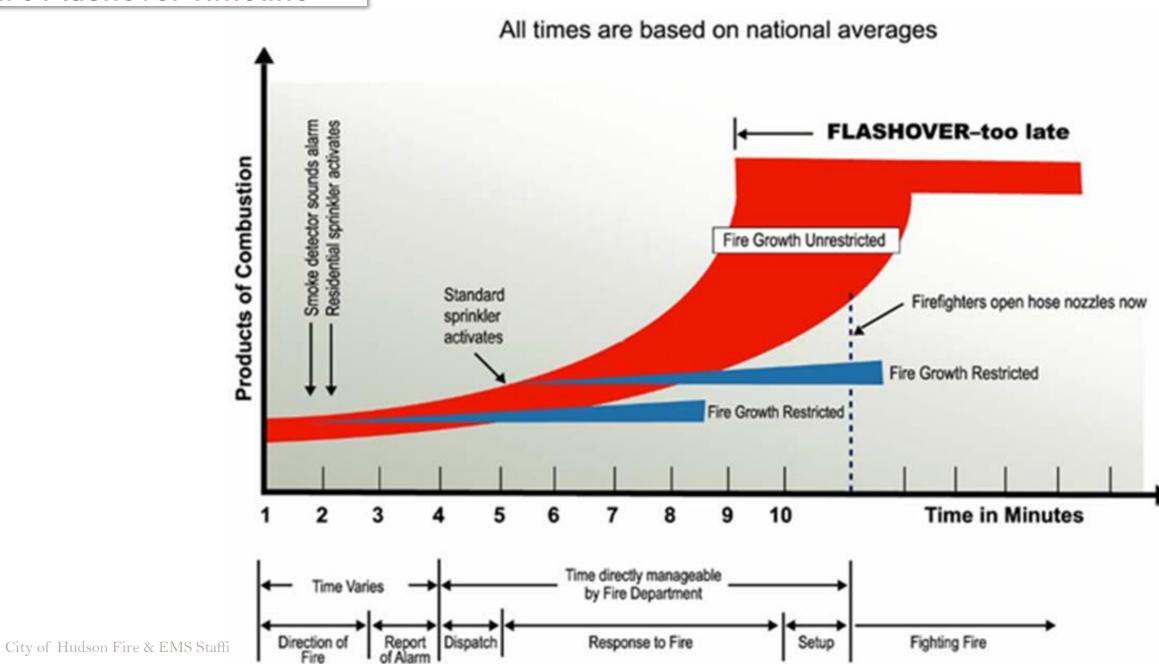






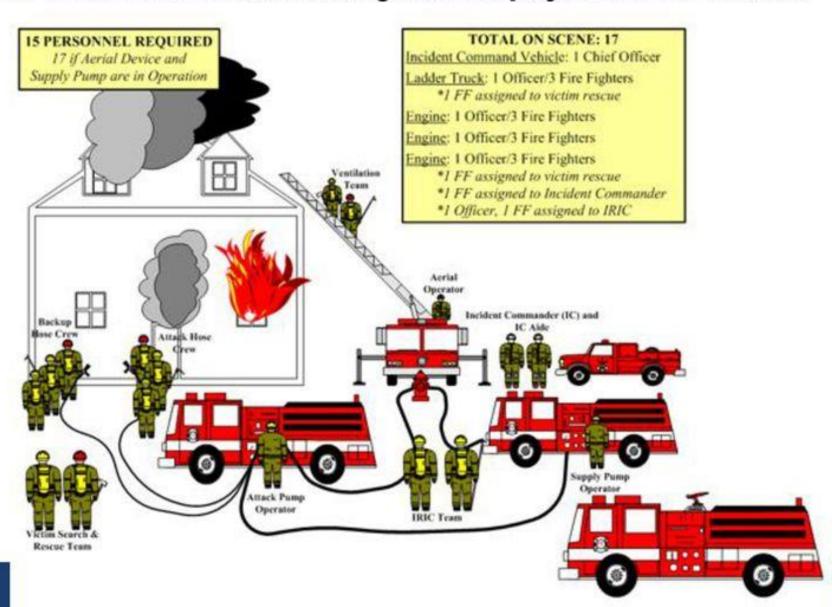


#### Fire Flashover Timeline



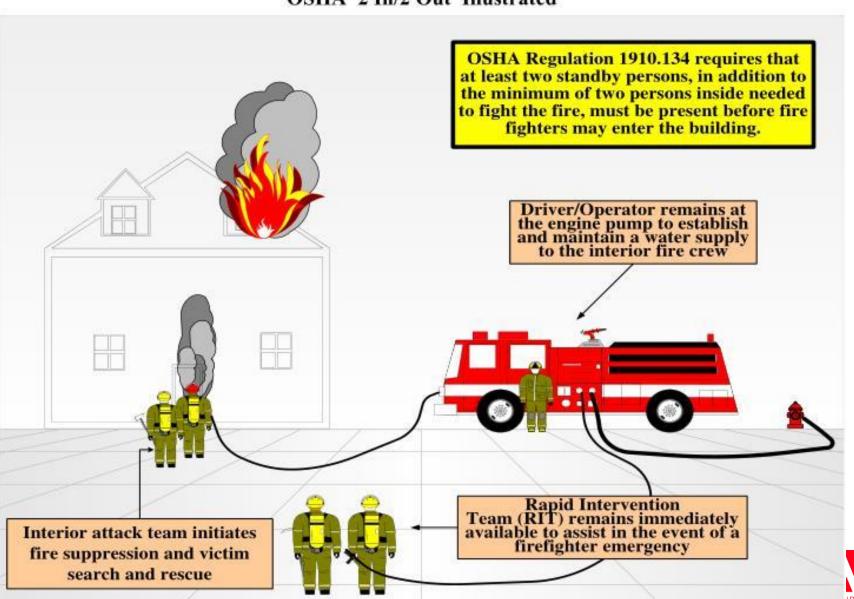
## NFPA Structure Fire Staffing Requirements

#### NFPA 1710 Initial Full Alarm Assignment Deployed Within 8 Minutes



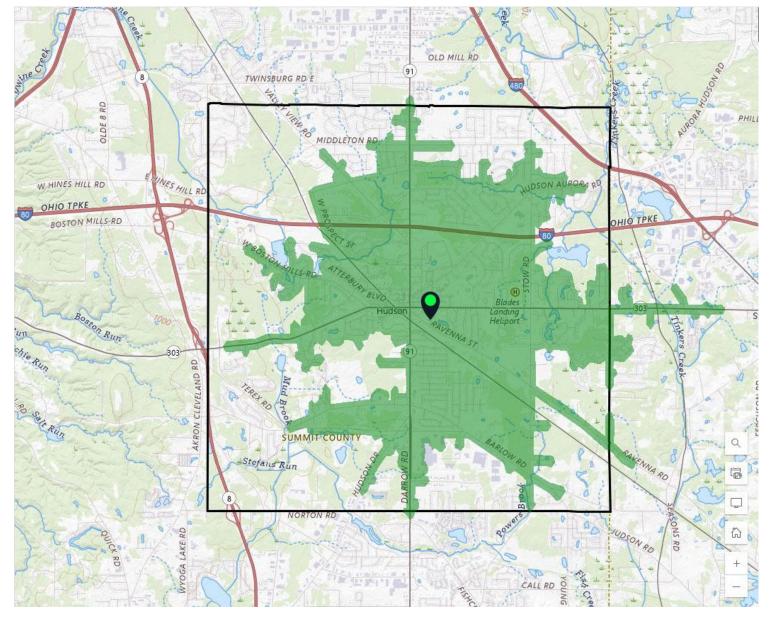
## Two-In, Two-Out Staffing Requirements

#### OSHA '2 In/2 Out' Illustrated





Response Time Study **Existing Station** 9:00 Elapsed Since Call Received



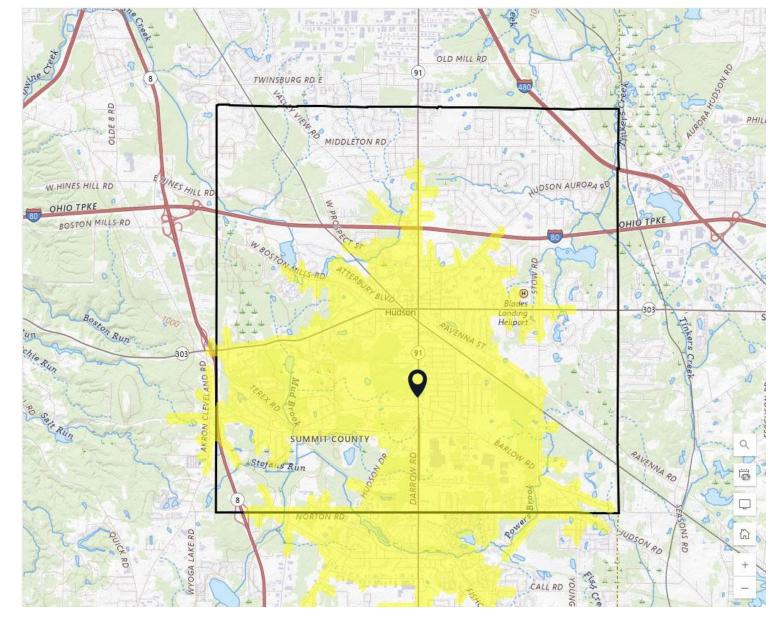








# Response Time Study South Station (Hypothetical) 9:00 Elapsed Since Call Received



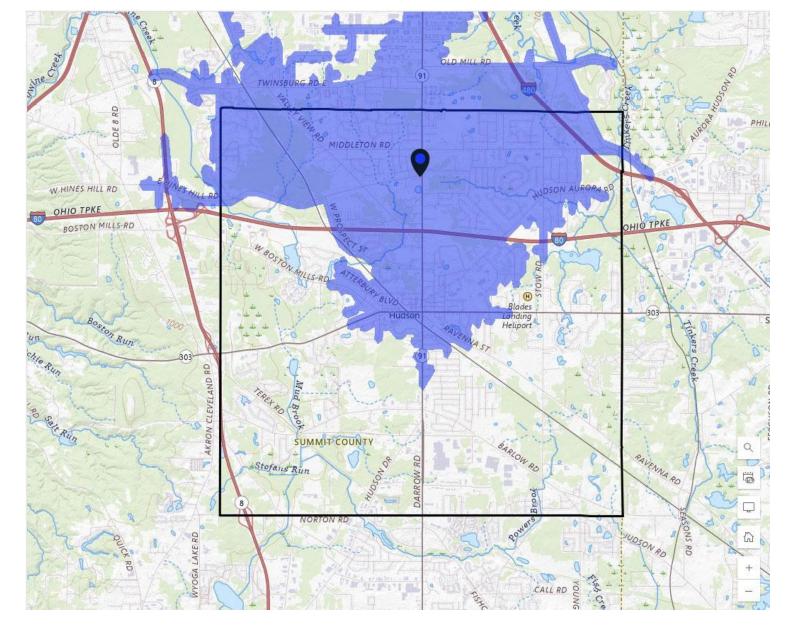








# Response Time Study North Station (Hypothetical) 9:00 Elapsed Since Call Received



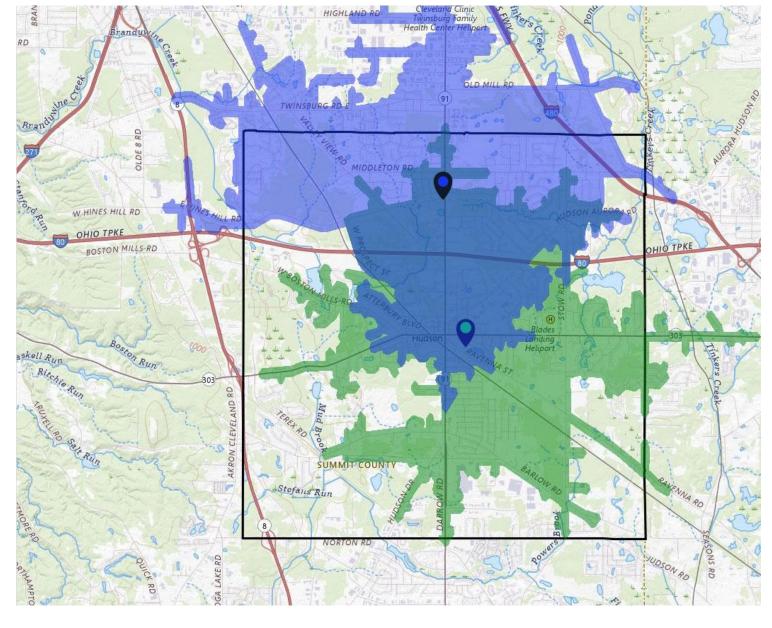








Response Time Study North Station + Existing 9:00 Elapsed Since Call Received



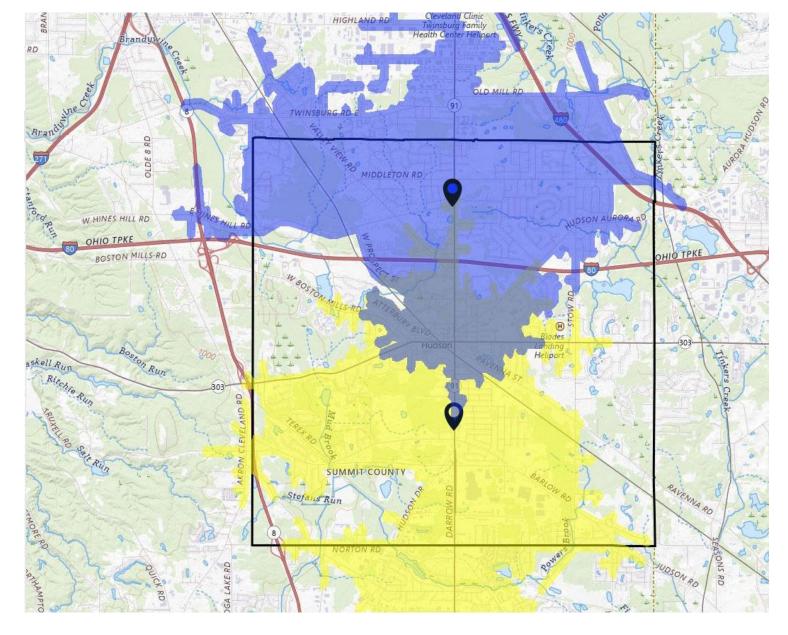








# Response Time Study North Station + South Station 9:00 Elapsed Since Call Received



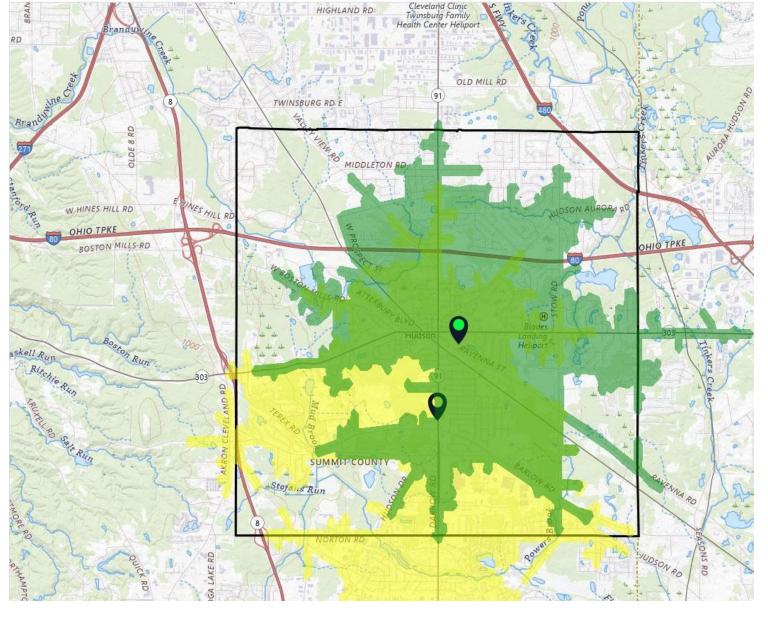








Response Time Study **Existing + South Station** 9:00 Elapsed Since Call Received











Response Time Study 3 Station Study 9:00 Elapsed Since Call Received

