### ANNE ARUNDEL COUNTY FIRE DEPARTMENT

Crownsville Fire Station #6
Virtual Community Input Meeting | October 27, 2021





# INTRODUCTIONS & PROCEDURES





### **AGENDA**

- Station Relocation
- 2 Response Times & Call Volumes
- 3 Units & Staffing
- 4 Health & Wellness
- 5 Design & Station Features
- 6 Cost & Timeline





# GEOGRAPHIC STATION LOCATION



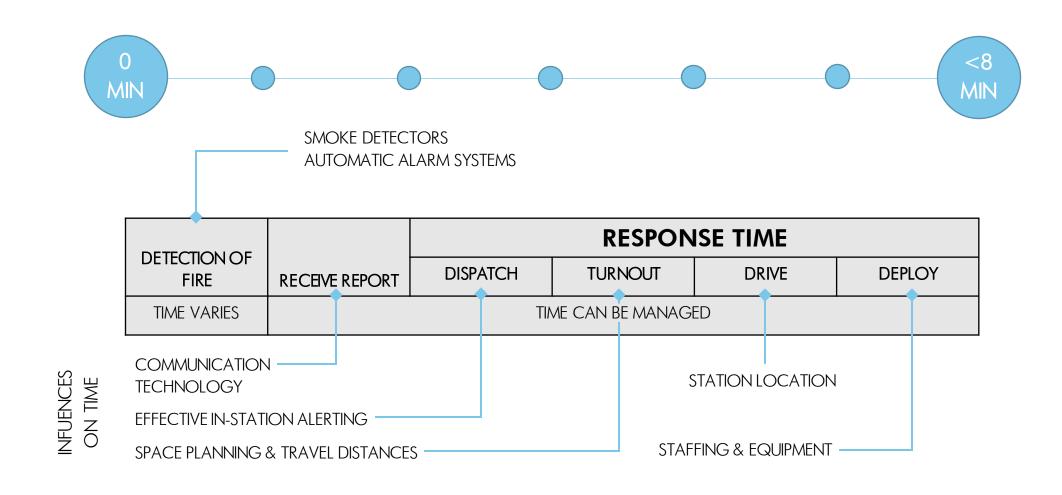




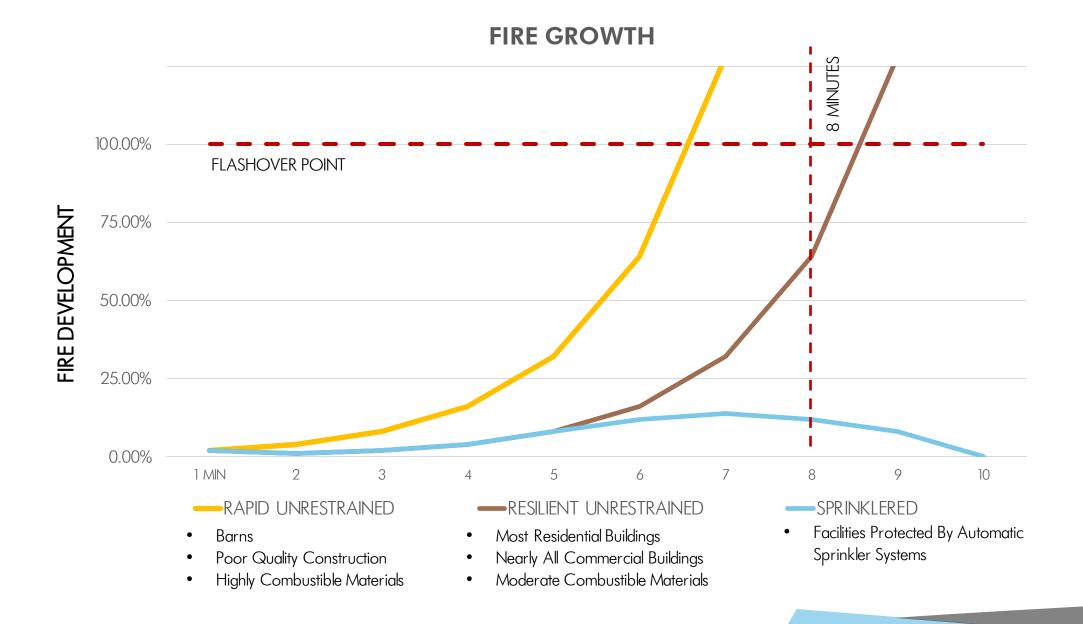
# RESPONSE TIMES & CALL VOLUME





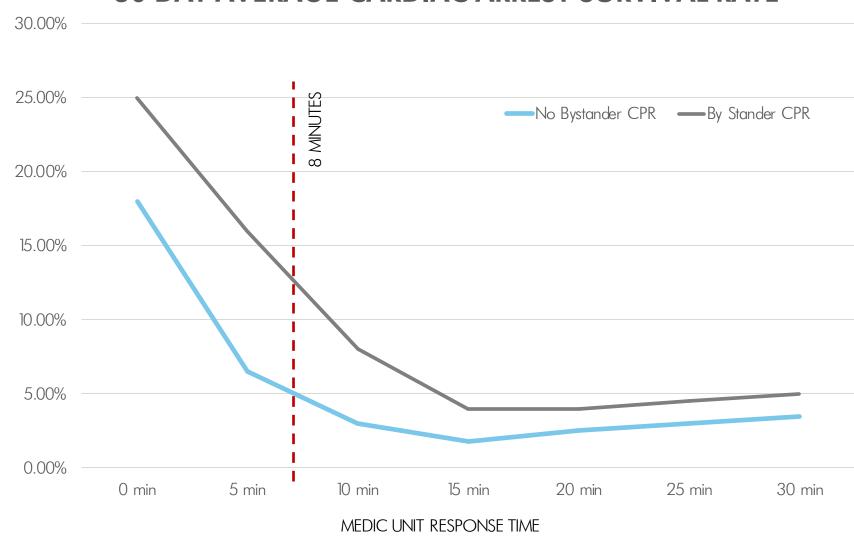


### FACTORS IMPACTING RESPONSE TIMES

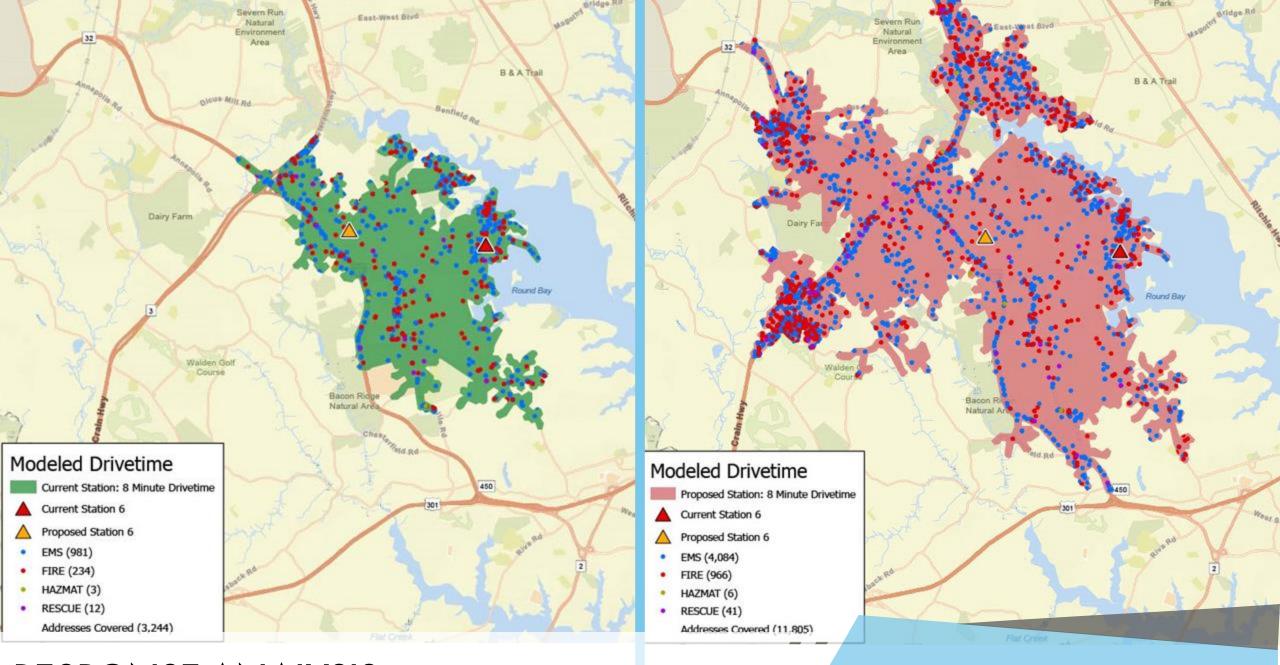


### WHY FIRE RESPONSE TIMES MATTER

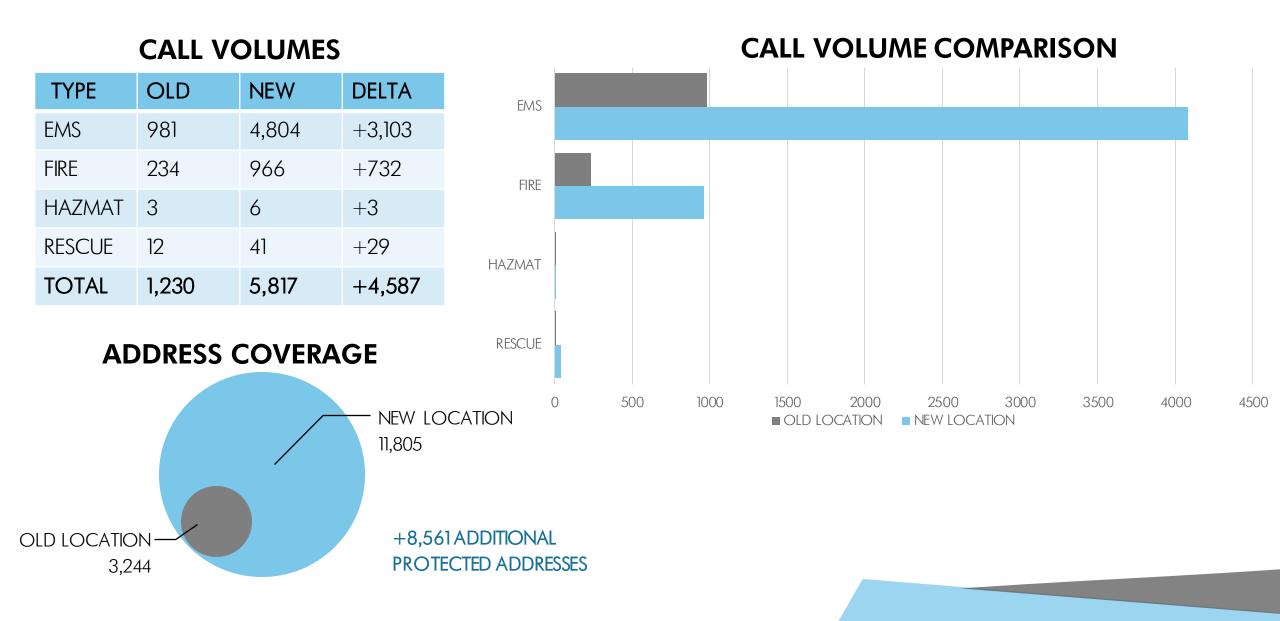
#### **30 DAY AVERAGE CARDIAC ARREST SURVIVAL RATE**



### WHY EMS RESPONSE TIMES MATTER



### **RESPONSE ANALYSIS**



### **RESPONSE ANALYSIS**

# UNITS & STAFFING





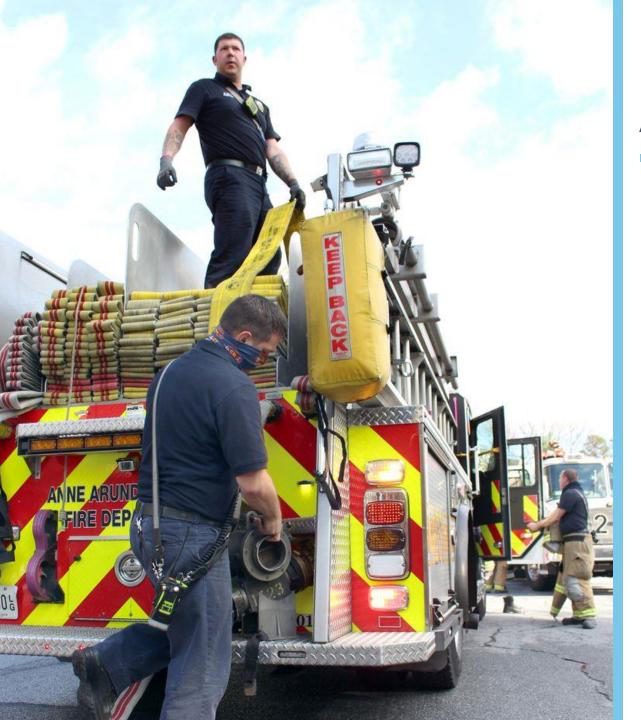


### **UNITS ASSIGNED**

- **ENGINE**
- **TANKER**
- **MEDIC UNIT**
- **AMBULANCE**
- **BRUSH TRUCK**
- **SPECIAL UNIT**
- SHIFT COMMANDER
- FIRE & EXPLOSIVES INVESTIGATION (x2)
- **EMS OFFICER**







## STAFF SHIFT ASSIGNMENT

**Division Chief** Company Officer Firefighter III Firefighter II Firefighter / Paramedic Fire Investigator Officer Fire Investigator **EMS Officer Volunteers** 

9 CAREER + VOLUNTEERS PER SHIFT





# FIRST RESPONDER HEALTH & WELLNESS







# WHAT MAKES A GOOD FIRE STATION TODAY?

#### SOME DEFINING CHARACTERISTICS

- Designed for first responder health and safety
- They're called a fire house for a reason; people live there...
- Provide spaces for responders to decompress after "battle"
- Fast & Safe Response Paths To Apparatus
- Future Growth & Expansion Taken Into Consideration
- Defined Public vs. Private Areas
- Improves operational efficiency and decreases operational costs
- Serve as a beacon to the community
- "Reads" as a fire station
- · Responds to the context of your community
- Fiscally Responsible











### MINIMAL STANDARD

### **OF CARE**

#### **BUILDING CODES**

- Building Codes Establish a MINIMAL set of standards to ensure structures are safe for human occupancy.
- Different Jurisdictions and Agencies Enforce Different Codes Sometimes The Conflict – In Which Case, The Most Stringent Regulation Typically Applies.
  - International Building Code (IBC)
  - NFPA 101 (Life Safety)
  - UFC (Typically State or Federal Installations)
- Fire Stations Are Unique As There Are Special Provisions For Ensuring the Resilience of Essential Facilities.
- Many Additional Standards & Policies Exist That Are Not Adopted By Local Jurisdictions. I.E. NFPA 1500 Infectious Disease
- Would your department be in a tough position if you ever had to take the stand?







### **SOBERING FACTS**



Firefighters have a 9% higher chance of being diagnosed with cancer, and a 14% higher chance of dying from cancer when compared to the general population. Certain types of cancer present significantly higher rates of diagnosis.

LINE OF DUTY DEATHS

The leading cause of line of duty deaths in both fire and police personnel is cardiac arrest. This can be largely attributed to over exertion and conditioning.

SLEEP DEPRIVATION
Sleep deprivation increases the risk of cardiovascular disease, obesity, diabetes, apnea, and cancer. Chronic sleep deprivation elevates the risk of long term illness and injury on the fire ground.

**SLIPS & FALLS** 

Humans are subject to error. While everything on the planet can't be protected with bubble wrap, there are smart design decisions that can be made to mitigate the risks of in-house injuries. In 2015 68,000 Firefighters were injured. 58% Of Injuries Occur off the fire grounds.

POST TRAUMATIC STRESS

Firefighters experience post-traumatic stress disorder at rates similar to what's seen among combat veterans. Culturally, no one wants to talk about it. According to National Firefighters Foundation any given department is 4x more likely to experience a suicide death than a LODD.

## DESIGN FEATURES AND PROJECT OVERVIEW







# KEY PROJECT FEATURES

22,400 Gross Square Feet

Scaled To Fit Into Residential Context

LEED Silver Sustainability Certification

State of The Art Health & Safety Features





# KEY PROJECT FEATURES

Rapid Internal Response Times

In Station Alerting w/ State-of-the-art Lighting

**Durable Resilient Construction** 

Integrated Site Design





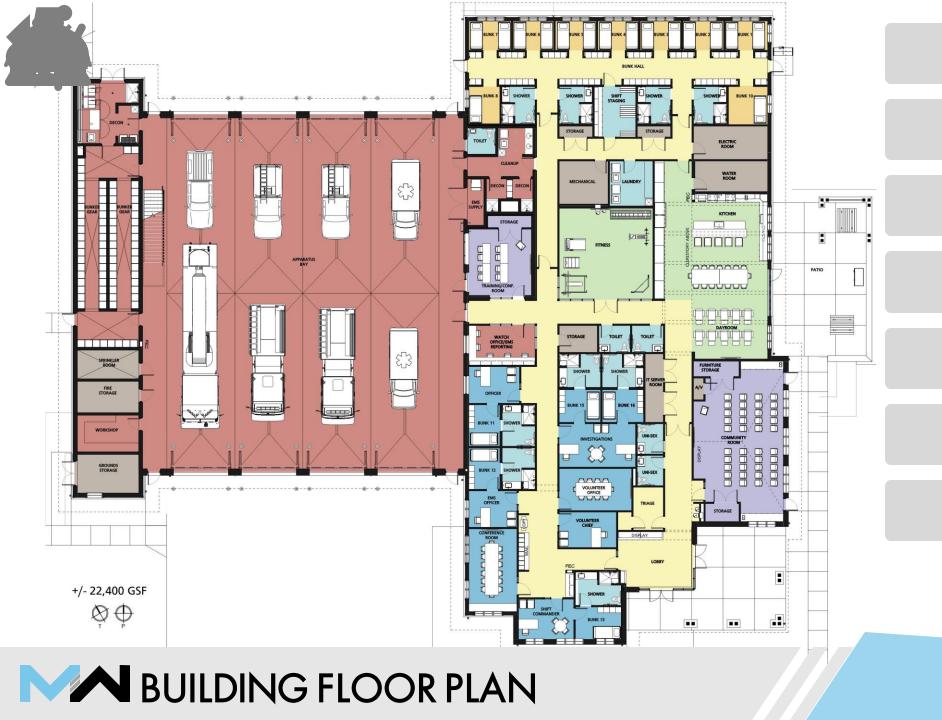












4 Drive Through Bays

Rapid Response Organization

NFPA Compliant Decontamination

Indoor Air Quality Monitoring

Access to Natural Light

EV Apparatus Ready

Community Engagement



# PROJECT COSTS AND TIMELINE

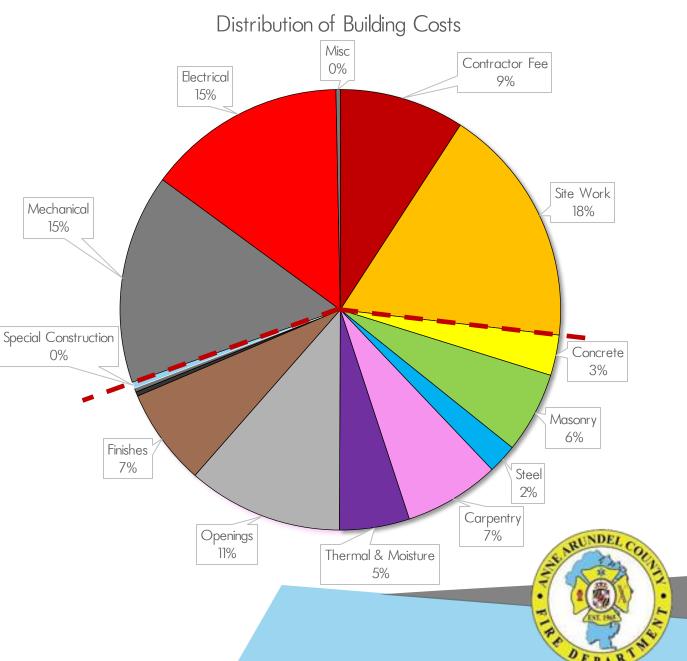


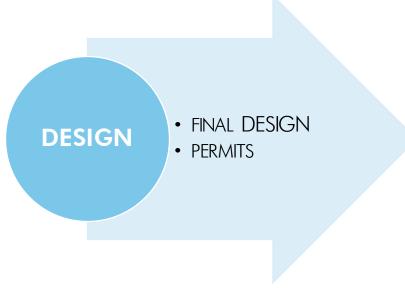


ELEMENT	COST
<ul><li>SITEWORK</li><li>Earthwork</li><li>Septic &amp; Well</li><li>Traffic Control &amp; Road Widening</li></ul>	\$1,848,821.00
STATION COST	\$7,524,963.00
<ul> <li>SPECIAL SYSTEMS</li> <li>Four-Fold Doors</li> <li>Vehicle Exhaust</li> <li>Alerting</li> <li>Station Equipment</li> <li>Generator</li> <li>Lightning Protection</li> <li>Resinous Bay Flooring</li> </ul>	\$1,187,000.00
BUILDING TOTAL	\$10,560,784.00
INSURANCE & CONTINGENCY	\$1,673,985.00
TOTAL ESTIMATE	\$12,234,769.00

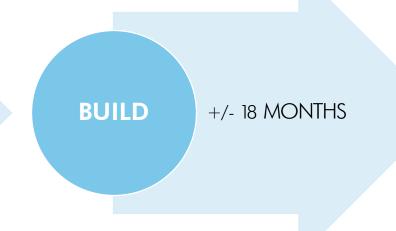
**AWAITING FY23' APPROPRIATION** 











90% COMPLETE

SUMMER 22'

FALL 22' - SPRING 23'







