

Capability Requirements Analysis – Fire Station Eight

Addendum -- Systems Analysis of Fire Station Eight Relocation DRAFT – Developed Prior to Learning About New Timeline & Charge

Problem Statement:

- Fire Station Eight is 52 years old. The facility is reaching end of useable life and as currently configured does not meet operational, environmental, and habitation needs
- As currently sited, fire and medic response does not meet emergency response standards due travel times from the station to point locations in coverage area.
 - This is a public safety – life saving issue and must be the priority consideration.

Capability Needs – What solution (non-Specified) should achieve to resolve the Problem Statement (in priority order) best meets the following needs?

- Be located for maximum benefit to provide optimized emergency response times in the fire station's area of coverage
- Meet the operational, maintenance, habitation and environmental capabilities with adequate footprint for site location
- Provide critical infrastructure capabilities for disaster response.

Functional Requirements to achieve the Capability Needs

- **Response**
 - Located as close as feasible (in travel time) to the center of the service area
 - Minimize overlap (with exceptions for situation specific response – i.e. EMT) with nearby stations
 - Located along major thoroughfares
 - Oriented for rapid egress from the station and access for simplified return to station
- **Critical infrastructure needs - provide optimized capabilities to response and recovery from disaster events**
 - Independent power supply (emergency generator)
 - Resilient communications with County incident commanders
- **Functional capabilities**
 - Meets minimum sized site footprint or greater plus room for future growth
 - Adequate number bays and storage for assigned emergency vehicles
 - Equipment maintenance
 - Storage and access to consumables

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- Habitat requirements for crew (sleeping quarters, kitchen, common areas, training, etc.)
- Communications
- EMT specific requirements
- **Site Alternative Considerations**
 - Meet site size requirements (footprint) for locating the fire station
 - Affordable cost to acquire property and build
 - Avoid need for interim site – due to costs and duplication of effort
 - Availability of site (to avoid eminent domain action)
 - Avoid requirement to assemble of parcels
- **Site alternatives selection basis**
 1. Current site inadequate in size. Location does not meet optimum response times by wide margin (per Tri-Data Study)
 2. A site located half way between Fire Station 3 and the northern end of the county is recommended depending on the availability of a suitable site (see Site considerations above).

Recommendation – Alternative 2 above.

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