Arlington County Fire Department

Fire Station #10

Western Rosslyn Area Planning Study
Working Group Meeting
September 9, 2014

Fire Station #10 – Current Uses

Current Uses	Number of Staff Needed
Engine Company	4
Medic Unit	2
Technical Rescue Tractor Trailer	Unstaffed – in use as needed
Reserve Transport Unit (Ambulance)	Unstaffed

- Future Capacity: Other unstaffed or staffed resources may be relocated in future years

Technical Rescue Vehicle

Engine Vehicle

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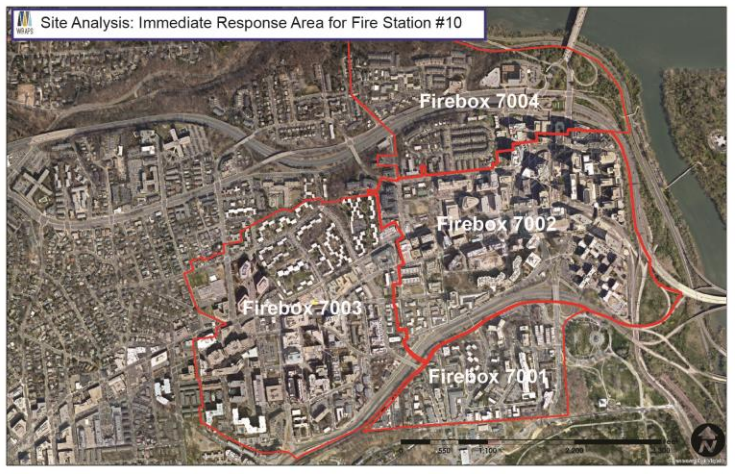
Fire Station #10 Service Area



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ARLINGTON VIRGINIA

Siting and Design Requirements

- Interior space will be similar to FS #3 and FS #5
  - Program requires ~15,100 square feet
  - 4 vehicle bays
  - Bay door openings – 14 feet tall
  - Design must allow for "Safe Haven" concept
- Additional Space & Design Criteria
  - Parking for up 20 cars
    - ✓ Shifts overlap ✓ Staffing can fluctuate
  - Min. of one drive-thru apparatus bay
  - Min. of a 45' front or rear apron so apparatus can be outside
  - Turning radius appropriate to enter/exit
  - Noise attenuation if built within mixed-use building

FS #3 (Lee Hwy)

FS #5 (Aurora Highlands)

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Siting and Design Considerations

- Private development or school drop-off / pick-up lanes should not interfere with Fire Station entrance/exit
- Station can be co-located within a commercial or residential high-rise building with separate entrances
- Prefer prominent location

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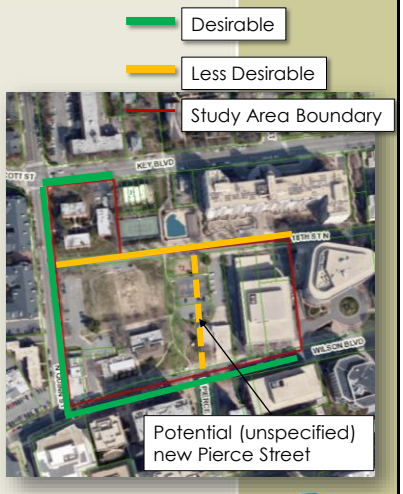
Siting Considerations & Preferences

Factors that influence Fire Response:

- Access to arterial street
- Interference from adjacent uses
  - Vehicles
    - School buses / school drop off
  - Pedestrians
    - Students
- Street width
- Turn radii

Siting Preferences (Egress)

1. Wilson Blvd frontage
2. Quinn Street frontage
3. Key Blvd Frontage



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Fire Station Siting – Past Constraints

Recent Fire Station Projects

Fire Station #5 – Aurora Highlands

Fire Station #3 – Old Dominion Dr

- Fire Station #5:
  - site had space to allow bay drive-through layout
- Fire Station #3 –
  - land swap with adjacent property owner limited space
  - back of station next to 21st Street North
  - no room for drive-through

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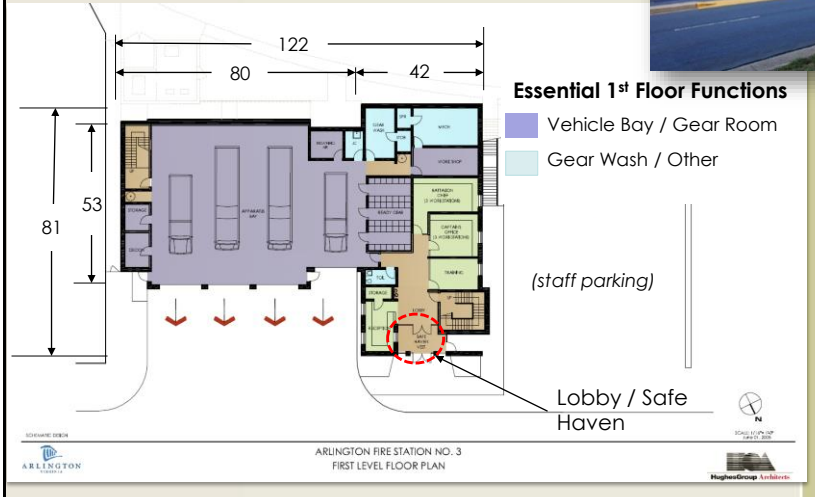
Floor Plan – Fire Station #3



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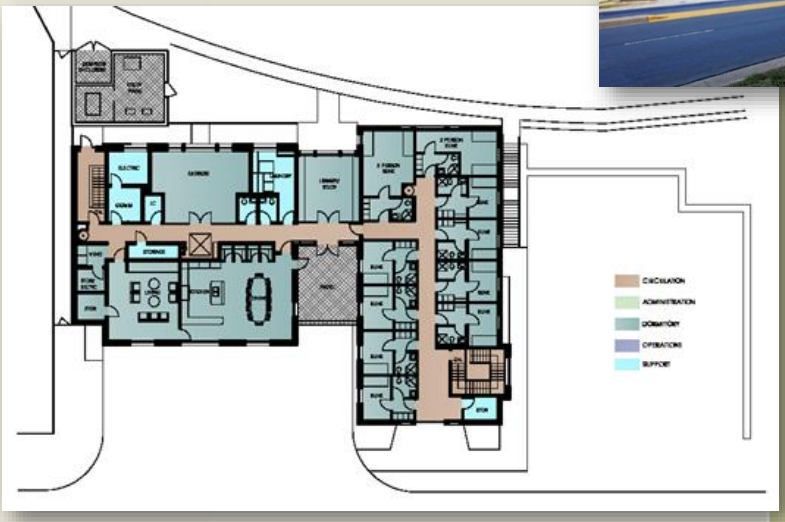
Floor Plan – Fire Station #3



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Summary

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- ACFD Requirements
  - ~15,100 square feet
  - 4 vehicle bays (at least 1 pull thru)
  - Bay door openings – 14 feet tall
  - Design must allow for "Safe Haven" concept
  - 45-foot apron (front or back)
  - Noise attenuation, if co-located in mixed-use bldg
- ACFD Preferences
  - Frontage on Wilson, Quinn or Key
  - Prominent location
- Flexibility

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WRAPS Working Group Considerations

- Location of fire station
  - Stand alone?
  - Co-location?
- Transportation network
  - Circulation / emergency access
  - Points of conflict
- Phasing

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Floor Plan Options – Fire Station #10

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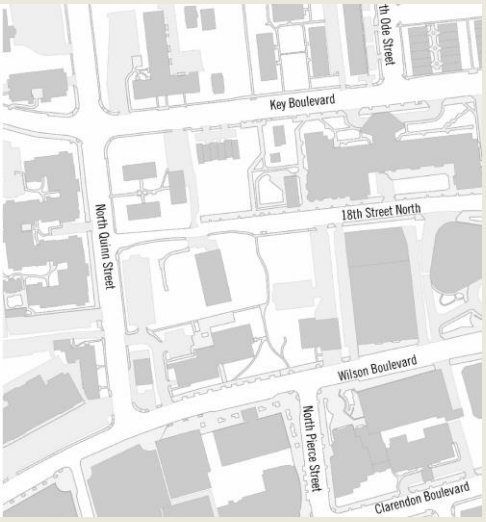
4-BAY FIRE STATION
1 level - 15,000 sf footprint

3-BAY FIRE STATION
1 level - 14,000 sf footprint

4-BAY FIRE STATION
2 levels - 7,500 sf footprint

3-BAY FIRE STATION
2 levels - 7,000 sf footprint



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Floor Plan Options – Fire Station #10

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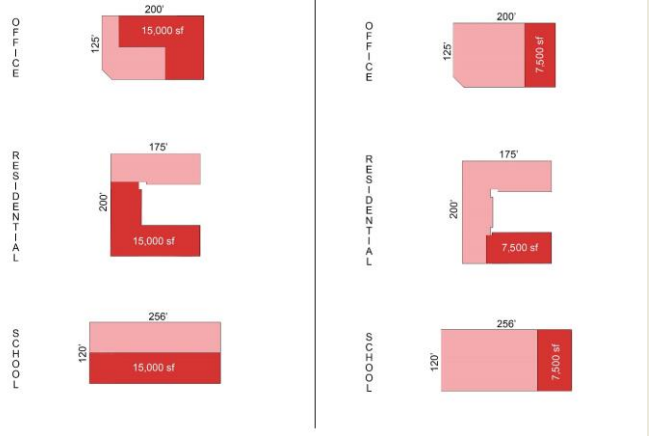

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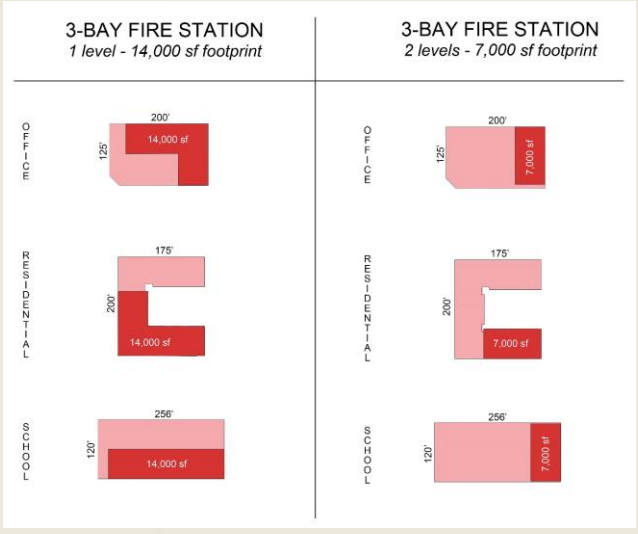
Floor Plan Options – Fire Station #10



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