Modification to RFP #1035

Section 1.2 Scope of Work

Line 3 - Flashover simulator attached to upgrades.
- ~~Tied into the existing burn building, so it can be utilized to charge the current building with smoke, if so desired.~~
- **The flashover simulator should be designed to act as separate unit, as long as it is physically attached to the shipping container addition, and permits the ability to charge the new addition, and existing burn building with smoke; several design options may be presented.**
    - **Design should not interfere with the open concept of the first floor and commercial store front design.**
    - **Design must permit the flashover simulator to act as another room of the addition when not being used as a flashover simulator.**
        - **Based on this usage, proper exiting of students into fresh air must be considered, and designed properly, to allow safe exiting of students during the flashover simulation usage.**
        - **Where adjoined, must have a seamless floor, roof, and sides to prevent smoke, fire, and water via weather or flowing water from entering or escaping from above, below, and sides.**
- **All shipping containers utilized for the flashover simulator with opening access via the original door system must have the bottom cam and cam keeper removed to avoid tripping hazards; a modified locking system is required, that will avoid a tripping hazard.**

Line 6 - All containers with opening access via the original door system must have the bottom cam and cam keeper removed to avoid tripping hazards**; a modified locking system is required, that will avoid a tripping hazard.**

Line 7 – All floors have an open concept design, except the third floor.
- Third floor setup as multiple apartments with minimum of one (1) burn room and minimum of three (3) forcible apartment door systems
- **All shipping containers where adjoined, must have a seamless floor, roof, and sides to prevent smoke, fire, and water via weather or flowing water from entering or escaping from above, below, and sides.**
- **Meaning no gaps from adjoined shipping containers, to include stairwells and flashover simulator.**
- **Each floor, once assembled should be a completely sealed structure on the ceiling and floor.**

       ○ **However, the system must be designed so that replacement of worn out shipping containers can be done with ease, i.e. modular design remains intact.**

Line 8 - Containers and/or foundation must be adjusted for entering the current first and second floor of the existing Class A burn building.
- First floor at the current garage door entrance.
- Second floor in the existing primary hallway.
- All additional level outside stairwells to land onto the current existing Class A roof level.
- Tie in to existing building - needed openings, and/or concrete masonry unit (CMU) adjustments are the responsibility of the awarded firm.
- **Tie in, to existing building must be sealed at the floor, roof, and walls similar to Line 7, to prevent smoke, fire, and water via weather or flowing water from entering or escaping from above, below, and sides.**

Line 9 -   All levels need to have a proper water drainage system.
- **All floors will have scuppers of a minimum of 8" high by 16" wide with a spring door flap, to remain closed, but opens upon minimum pressure exertion.**
  - **First and second floor will have a minimum of six (6) scuppers, 2 on Side Alpha, Charlie, and Delta.**
  - **Third and forth floor will have a minimum of eight (8) scuppers, 2 on each side of the structure.**
  - **Each burn room is required to have a minimum of one (1) scupper.**
    - **If the burn room is located on the outside wall, then two (2) scuppers are required; one on each side of exterior wall.**
      - **Exception is any burn room on the first or second floor adjacent to the current Class A burn building.**
      - **In which case, one is still required, on the associated exterior wall, not adjacent to the current Class A burn building.**
  - **Interior stairwell will require, if applicable, a minimum of one (1) scupper on the bottom floor.**
    - **If interior stairwell landings are a solid floor with no gaps from shipping container wall, then each floor must have a minimum of one (1) scupper, located to permit drainage.**
    - **If solid, but has a toe board, then some form of drainage system must be provided.**
  - **All scuppers, should be position in such a manner that proper drainage with in the associated structure area will naturally drain.**
  - **All scuppers must not drain onto steps and landings, and primary working and prop areas.**

- **All exterior landings, if a solid floor will have some form of drainage.**
- **All applicable shipping container roofs, must have some form of drainage, a modified scupper or other design is acceptable; size is dependent on calculated drainage needs.**

Line 10 - Windows
- OSHA approved height
- **All window shutters will be hinged swinging windows, either single or double based on size and application, with a simple latching system.**
- **Shutters/hinges will be designed to handle associated heat exposure.**
- **Sliding window shutters will not be permitted, unless final design for that particular window area is specifically required to have a sliding design.**
  - **Proper evidence must be provided on way it needs to be a sliding window, instead of a swinging shutter.**

Line 15 - Interior return staircase on all floors.
- Designed to support firefighting tactical loads.
- **As in Line 7:**
- **All shipping containers where adjoined, must have a seamless floor, roof, and sides to prevent water via weather or flowing water from entering or escaping from above, below, and sides.**
- **Meaning no gaps from combined shipping containers.**

Line 21 - Foundation:
- Foundation to support proposed structural add-on to current Class A burn building.
- Responsibility of awarded firm to complete foundation.
- **Foundation must be designed to permit drainage of the entire shipping container system.**
  - **Preferred drainage flow is the Delta side of the structure.**
  - **Based on structural design a minimum gradient of 1% from current Class A burn building to end of new structure is required to permit proper drainage out onto side Delta of the completed new structure.**
    - **Other drainage slope options can be explored, and must be explained in detail.**