

# November Update on Prototype 4 Live Fire Training Structure

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November 30, 2023



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## Today's Discussion Will Cover:

- **Prototype 4 Status Update**
- **Design Challenges**
- **Proposed Goochland County Container Structure**

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## Prototype 4 Status Update:

### INDEX OF DRAWINGS

#### REFERENCE

TO.1	TITLE SHEET, BUILDING CODE DATA, & LOCATION MAP
A0.1	ABBREVIATIONS, MATERIAL INDICATORS, & GRAPHIC SYMBOLS
A0.2	GENERAL NOTES

#### ELECTRICAL

E1.0	ELECTRICAL FLOOR & ATTIC PLANS, NOTES, SYMBOLS & ABBREVIATIONS
E2.0	ELECTRICAL DETAILS & PANELBOARD SCHEDULE

#### ARCHITECTURAL

A1.0	SLAB ELEVATION PLAN
A2.0	FIRST FLOOR PLAN
A2.1	SECOND FLOOR PLAN
A2.2	ATTIC FLOOR & SLOPED ROOF PLANS
A3.0	BUILDING ELEVATIONS
A3.1	BUILDING SECTIONS
A4.0	SCUPPER, RAMP, & THERMAL LINING DETAILS
A4.1	SIGNAGE, RAILING, & CHOPOUT DETAILS

#### STRUCTURAL

S1.0	FOUNDATION PLAN (BEARING WALL DESIGN) & COLUMN FTG. SCHEDULE
S1.1	FOUNDATION PLAN (MAIN FRAME DESIGN) & COLUMN FTG. SCHEDULE
S2.0	FOUNDATION SECTIONS & DETAILS
S3.0	EXTERIOR STEEL STAIR ELEVATION, SECTIONS, & DETAILS

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## Design Challenges:

- **Maintenance/serviceability**
- **VDFP “standard” vs. industry flexibility**
- **Interior Floor finishes**
- **Thermal expansion of welded wall components**

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## Design Challenges:

- Maintenance/serviceability



Bristol (2023)



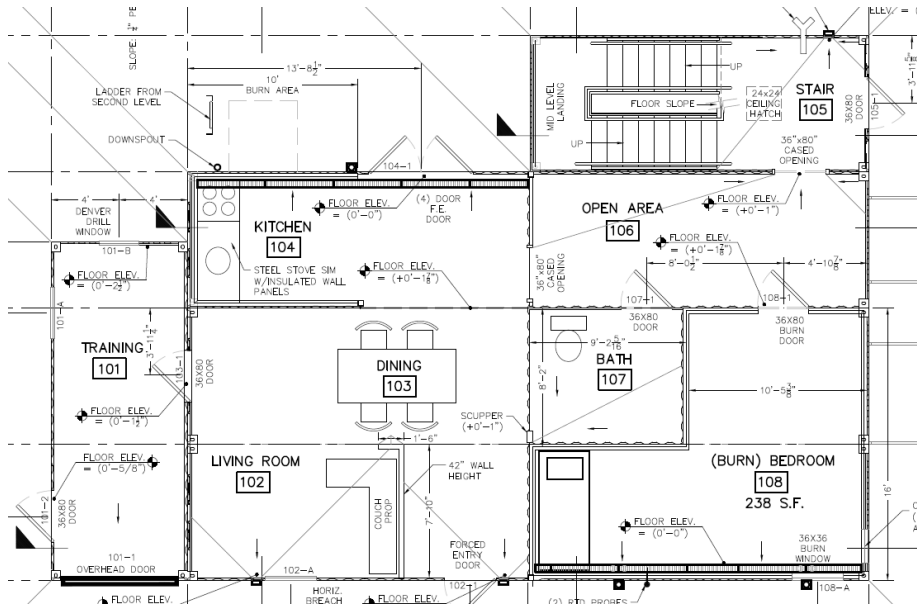
Bristol (2023)

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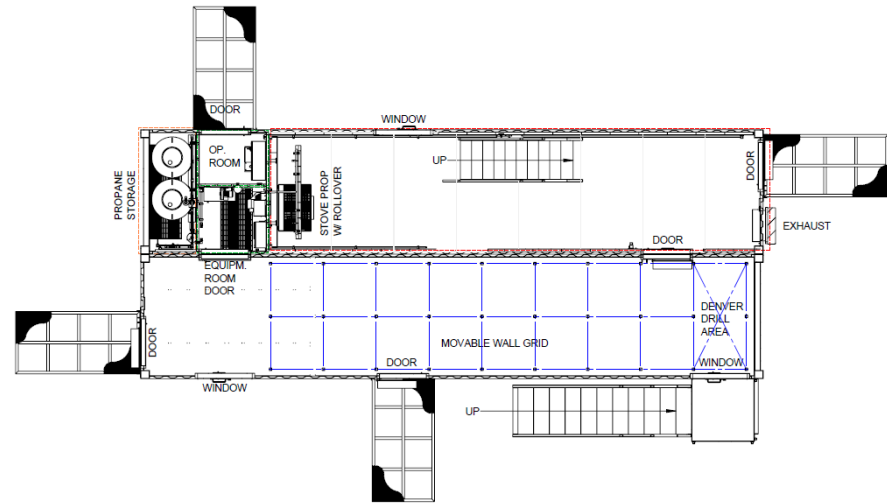


## Design Challenges:

- VDFP “standard” vs. industry flexibility



Proposed Prince George



Proposed Goochland

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## Design Challenges:

- VDFP “standard” vs. industry flexibility



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## Design Challenges:

- Interior Floor finishes



Diamond Plate



Smooth Plate



Open Steel Grates



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## Design Challenges:

- Thermal expansion of welded wall components

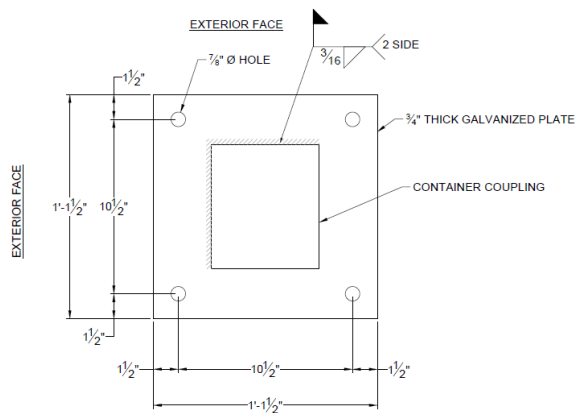


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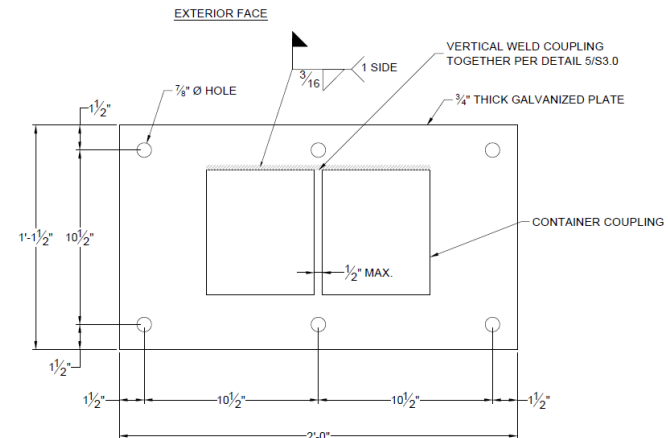


## Proposed Goochland County Container Structure:

- No A/E representing locality
- Unspecified container type
- Welded container couplers
- Means of egress
- Temperature monitoring
- Ventilation

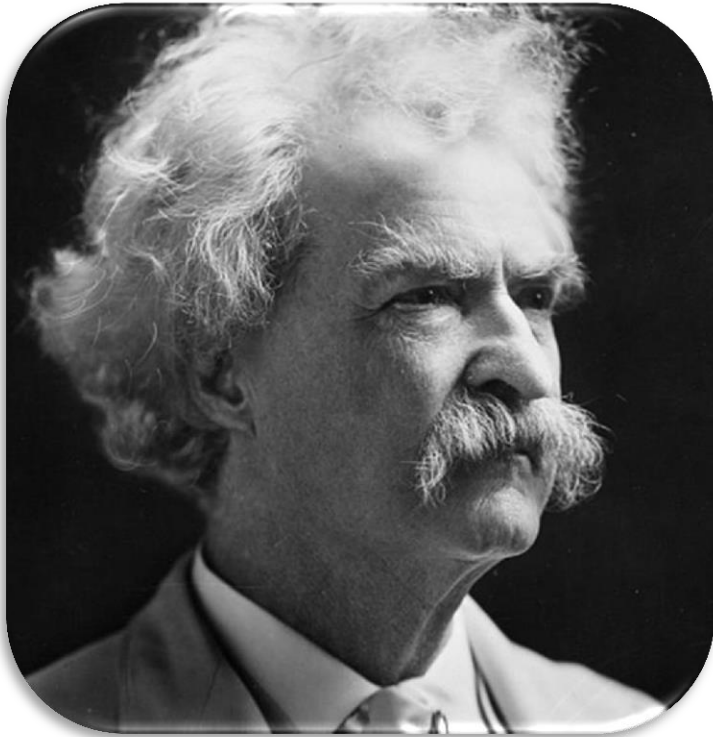


1 BASE PLATE - BP1  
SCALE: 3" = 1'-0"



2 BASE PLATE - BP2  
SCALE: 3" = 1'-0"

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*"History doesn't repeat itself, but it often rhymes."*

- Samuel Clemens  
(Mark Twain)

## ANY QUESTIONS?

## Summary of Open Project 11-12-23

### Burn Building Construction Projects: 6 open

FLUVANNA County awarded FY18 480,000

- Locality would like a two year extension and building type change. On agenda for December Full Board meeting. This would be their 5<sup>th</sup> extension request.

HANOVER County awarded FY20 450,000

- Project complete. Ribbon cutting ceremony was in October. Waiting for closeout paperwork.

SUFFOLK County awarded FY21 480,000

- No update to report.

RICHMOND City awarded FY23 480,000

- No Update

GOOCHLAND County awarded FY23 480,000

- Sent in the site and building drawing. TSG's Cursey review was sent to locality with items to be addressed by locality engineer.

Halifax County awarded FY24 480,000

- Award issued September 2023. New building orientation meeting held October 17, 2023.

### Burn Building Renovation / Repair Projects

LYNCHBURG City (repair) FY22 awarded \$38,849

- Issued a second no cost extension in August 2023. New end date December 17, 2023

Virginia Beach (repair) FY22 awarded \$34,549

- Project end date November 12, 2023. Received completion notice. Awaiting Division Chief review of repairs.

Town of Wise (repair) FY24 awarded \$12,800

- A repair grant award was issued in June 2023. The locality has until June 2024 to complete the repairs outlined in the application.

Town of Chilhowie (repair) FY24 awarded \$17,800

- A repair grant award was issued in June 2023. The locality has until June 2024 to complete the repairs outlined in the application.

Winchester City (renovation) FY24 awarded \$150,000

- A renovation grant award was issued September 2023. The locality has until September 22, 2024 to complete the renovations outlined in the application.