

CONSTRUCTION AGREEMENT

This Construction Agreement is made effective this 7th day of September, 2023,

BETWEEN

Owner:

Town of Guilderland
Guilderland Town Hall
PO Box 339
5209 Western Tpk.
Guilderland, NY 12084

(referred to as "Owner")

AND Contractor:

JAHNKE & SONS CONSTRUCTION INC dba WHP Trainingtowers
WHP Trainingtowers
519 Duck Road
Grandview, MO 64030
Telephone: 800-351-2525
Email: joe_kirchner@trainingtowers.com

Project:

Guilderland Fire Training Structure

Owner and Contractor agree as follows:

1. WORK

Contractor agrees to provide and pay for all labor, services, materials, equipment, tools, machinery, transportation, taxes, insurance, testing, waste disposal, containment, and all other services for the Work as detailed in the Contract Documents. The **Contract Documents** are as follows:

A) Plans and prepared by: WHP Trainingtowers

Titled: **Fourth Alarm – Four Story**

Job No. N/A

Dated: **8-25-23**

B) Specifications prepared by: WHP Trainingtowers

Titled: **13144 Fire Fighting Simulator**

Job No. N/A

Dated: **8/25/23**

C) Contractor Proposal Dated August 25th, 2023, which is attached hereto and incorporated herein by reference as Exhibit A.

D) Schedule as Submitted by Contractor with its Proposal for the Work. This Schedule is attached hereto and incorporated herein by reference within Exhibit A.

In the event of any conflict between Contractor's Proposal and this Contract or any other Contract document, the terms of the Proposal shall prevail.

2. CHANGES IN THE WORK

Owner, without invalidating this Contract, may order changes in the Work consisting of additions, deletions, or modifications. Such changes in the Work shall be authorized by written change order signed by both Owner and Contractor. The Contract Amount and Contract Time shall be changed only by written change order. The cost or credit to the Owner from a change in the Work shall be determined by mutual agreement. Contractor must submit a claim for any change in the work or request for change order within 21 days of the incident or direction giving rise to the change in the Work or schedule.

3. LUMP SUM CONTRACT AMOUNT

Owner agrees to pay Contractor for the performance of the Work the total sum of:

\$819,882.35

Eight hundred nineteen thousand eight hundred eighty two dollars and 35 cents

subject to additions and deductions for changes as may be agreed upon in writing, (the "Contract Amount"). The lump sum contract amount includes Contractor's general conditions and overhead and profit. Contractor understands the Project is tax-exempt and Owner shall provide Contractor with appropriate documentation of tax-exempt status,

including a tax exempt certificate or other documentation recognized under applicable law.

4. TIME OF COMMENCEMENT AND COMPLETION

Time is of the essence with this Contract. Contractor agrees it shall meet the schedule Contractor submitted with its Proposal and which is now a part of this Contract and attached hereto within Exhibit A. Contractor acknowledges that time is of the essence in performing the Work.

5. TERMINATION

If Contractor fails to meet the schedule it has indicated on the Contract Schedule attached hereto as exhibit B or if it otherwise fails to diligently pursue the Work or materially defaults or persistently fails or neglects to carry out the Work in accordance with this Agreement or fails to perform a provision of the Contract, Owner, after twenty-one (21) calendar days written notice to Contractor and after proving Contractor an opportunity to cure, Owner may make good such deficiencies and may deduct the cost thereof from the payment due Contractor. Alternatively, at Owner's option, Owner may terminate the Contract, take possession of the site, and may finish the Work by whatever method Owner may deem expedient. If the unpaid balance of the Contract Amount exceeds costs of finishing the Work, such excess shall be paid to Contractor.

Owner reserves the right, by written notice, to terminate this Agreement without liability to Contractor, in the event of the happening of any of the following: (i) insolvency of Contractor, (ii) the filing of a voluntary petition in bankruptcy by Contractor, the filing of an involuntary petition to have Contractor declared bankrupt, (iii) the appointment of a receiver or trustee for Contractor, (iv) the execution by Contractor of an assignment for the benefit of creditors, (v) the discontinuance of business by Contractor, or the sale by Contractor of the bulk of its assets other than in the usual course of business.

Notwithstanding anything to the contrary in this Contract, Owner may terminate this Contract for its convenience upon not less than seven (7) days written notice to Contractor. If Owner terminates the Contract for its convenience, Contractor shall be paid to the date of termination for such portions of the Work as Contractor has completed, plus its reasonable costs associated with any such termination, plus its reasonable lost profits and overhead on work not performed.

6. PAYMENT

Contractor shall furnish Owner, on or before the twentieth (20th) day of each month during the progress of the Work, an itemized statement of the Contract Amount allocable to labor, materials, and equipment which, up to the last day of the preceding month, were either incorporated in the Project, or suitably stored at the site, or at some other location agreed

upon by the parties, less the aggregate of all previous progress payments less retainage of five percent (5%) Each Application for Payment shall be accompanied by partial releases from the Contractor, its subcontractors, and material and equipment suppliers, in a form acceptable to the Owner and certified payroll reports. Within thirty days of receipt of an undisputed monthly application for payment, the Owner shall pay Contractor.

Upon final completion of the Project as determined and approved in writing by a final inspection performed by Owner and Contractor, Contractor shall submit an Application for Final Payment. The Application for Final Payment shall be accompanied by (a) written warranties and guarantees of equipment or material suppliers, and all owner's manuals or operations books or information, (b) properly executed final release for Contractor, subcontractors, and material and equipment suppliers, (c) Final lien and claim waivers, (d) verification of completion of all punch list items, and (e) a listing of all unsettled claims. The full balance due shall be paid by Owner to Contractor no later than thirty (30) days after the Owner's approval of Contractor's Application for Final Payment together with all attachments.

Owner may withhold payment to Contractor on account of the following:

- a) defective Work not remedied;
- b) claims filed by third parties relating to the Project;
- c) failure of the Contractor to pay subcontractors or to pay for labor, material, or equipment;
- d) reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Amount;
- e) damage to the Owner or another person or entity caused by Contractor or its subcontractors, or material suppliers;
- f) reasonable evidence that the Work will not be completed within the scheduled time and that the unpaid balance would not be adequate to cover Owner's damages; and
- g) failure of Contractor to comply with any applicable laws and regulations that protect the environment or human health and safety of the Project site.

7. MANAGEMENT

Contractor shall employ adequate construction management to ensure that the work is in accord with the contract documents.

8. SAFETY

Contractor agrees to take all reasonable safety precautions with respect to the Work and to comply with all safety measures for the safety of persons or property in accordance

with OSHA requirements. Contractor shall provide its employees all safety equipment which is required to perform the Work. Contractor shall be responsible for compliance with any laws and regulations protective of the environment or human health and safety.

If the Contractor encounters hazardous quantities or concentrations of materials or substances of an unusual nature that materially differ from the conditions indicated in this Agreement and that differ materially from the conditions ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in this Agreement, Contractor shall immediately vacate and restrict access to the affected area and report the condition to the Owner.

9. PERMITS & LICENSES

Contractor shall obtain any and all permits or licenses required under any federal, state, or local laws for performance of the Work. To the extent any permit fees are not waived, Owner shall bear the cost of such fees. Contractor shall make all notifications required under any federal, state, or local laws for performance of the Work.

10. WARRANTY

Contractor guarantees and warrants to Owner (i) that all equipment and materials supplied will be new, (ii) that all Work will conform to the applicable specifications, instructions, drawings, data, samples, and good construction practices, (iii) that all Work will be free from liens and encumbrances, and (iv) that all work performed and equipment and materials supplied shall be free from defects of any kind, nature or description on the date of Owner's acceptance and for a period of one year from the date of substantial completion. During such warranty period, Contractor agrees that upon written notice from Owner, to correct any work that fails to conform to the requirements of this Contract and remedy any defects due to faulty materials or workmanship at no cost to Owner.

11. INDEMNITY

To the fullest extent permitted by law, Owner and Contractor each agree to indemnify the other party and the other party's officers, directors, partners, employees, and representatives from and against losses, damages, and judgements arising from claims by third parties, including reasonable attorneys' fees and expenses recoverable under applicable law, but only to the extent they are found to be caused by a negligent act, error, or omission of the indemnifying party or any of the indemnifying party's officers, directors, members, partners, agents, employees, or subcontractors in the performance of work or services under this Agreement. If claims, losses, damages, and judgments are found to be caused by the joint or concurrent negligence of Contractor and Owner, they shall be borne by each party in proportion to its negligence.

12. INSURANCE

Contractor will maintain the following insurance coverage:

(1) Statutory Workers' Compensation Insurance, including Employer's Liability Insurance, with per occurrence coverage of at least \$1,000,000.

(2) Comprehensive General Liability Insurance (in a form providing coverage not less than that of the Standard 1993 Insurance Service Office Commercial General Liability insurance policy - Occurrence Form), which will include premises and completed operation coverage extending for at least two (2) years after substantial completion of the Project. Coverage shall include personal injury liability and broad form contractual liability.

The total available limits shall not be less than \$1,000,000 combined single limit per occurrence, \$1,000,000 annual general aggregate, and \$1,000,000 annual products and completed operations aggregate.

(3) Comprehensive Automobile Personal Injury Liability and Property Damage Liability Insurance covering owned and nonowned vehicles with a combined single limit of \$1,000,000.

(4) Umbrella Insurance with limits of \$ 1,000,000.

(5) Each liability insurance policy required of Contractor shall be endorsed:

a. To name as Additional Insureds the following: Town of Guilderland and all other entities as may be reasonably required by the Owner as Additional Insureds.

b. That in the event of any claims being made by reason of bodily injury, personal injury, or property damage sustained by any agent, servant or employee of one insured for which another insured is or may be liable, then the policy shall cover such insured against whom a claim is made in the same manner as if a separate policy had been issued to each insured. (Severability of Interest/Cross Liability).

(6) Contractor will furnish upon request Certificates of Insurance evidencing the above coverages.

13. INDEPENDENT CONTRACTOR

Contractor, its subcontractors, employees or agents are independent contractors for all purposes and at all times. Owner will incur no responsibility or obligation to employees, agents, subcontractors or other parties used by Contractor to perform this Agreement or any Order. Such person or parties will, at all times, remain employees, agents or subcontractors (whichever is applicable) of Contractor.

Contractor is solely responsible for payment of wages, salaries, fringe benefits and other compensation of, or claimed by, Contractor's employees and is responsible for all payroll

taxes. Contractor is also solely responsible for compliance with applicable Workers' Compensation laws with respect to maintenance of workers' compensation coverages on Contractor's employees. Contractor will indemnify and defend Owner from all claims by any person, government or agency relating to payment of taxes and benefits, including without limitation, any penalties and interest which may be assessed against Owner. Contractor will similarly indemnify and defend Owner and Construction Manager from all claims by any person or governmental agency which arise directly or indirectly from any failure by Contractor to comply with applicable Workers' Compensation laws with respect to maintenance of Workers' Compensation coverage on Contractor's employees.

Contractor will require its employees, agents and subcontractors to comply with the terms and conditions of this Article.

14. RIGHT TO STOP WORK

If Contractor fails to correct Work which is not in accordance with the requirements of this Agreement or persistently fails to carry out the Work in accordance with this Agreement, Owner, by written order, may order Contractor to stop the Work, or any portion of the Work, until the cause for such order has been eliminated.

Contractor shall promptly correct Work rejected by Owner for failing to conform to this Agreement, whether observed before or after Substantial Completion and whether or not fabricated, installed, or completed.

15. WAIVER OF CONSEQUENTIAL DAMAGES

In no event shall the Contractor or Owner be liable for any incidental, special, punitive or consequential damages of any kind, including without limitation loss of use, productivity, reputation, financing, business opportunities or profits, with any such claims or damages being expressly waived and released.

16. ATTORNEYS' FEES

In any proceeding or other action brought by one party against the other party to enforce or interpret the terms of this Contract, or to resolve any dispute concerning any of the services, work, or obligations of this Contract or any other matter arising out of this Contract, the prevailing party in such proceeding or action shall be entitled, in addition to such other relief the court may grant, to an award of its costs and expenses incurred in connection with the proceeding or action, including, but not limited to, reasonable fees and disbursements of its attorneys.

17. CONTROLLING LAW; JURISDICTION

Without regard to conflict of laws provisions, all questions concerning the validity and operation of this Agreement, and the performance of the obligations imposed on the

parties under this Agreement, will be governed by the laws of the state where the Project is located.

18. SEVERABILITY

If any provision of this Agreement is held to be unenforceable by a court of competent jurisdiction, the remaining provisions will remain in effect, to be construed as if the unenforceable provisions were originally deleted.

19. ENTIRE AGREEMENT

This Agreement constitutes the entire Agreement between the parties with respect to the subject matter hereof and may not be amended or modified without specific written amendment, signed by both parties.

OWNER:

By:

Name: _____

Title: _____

Date: _____

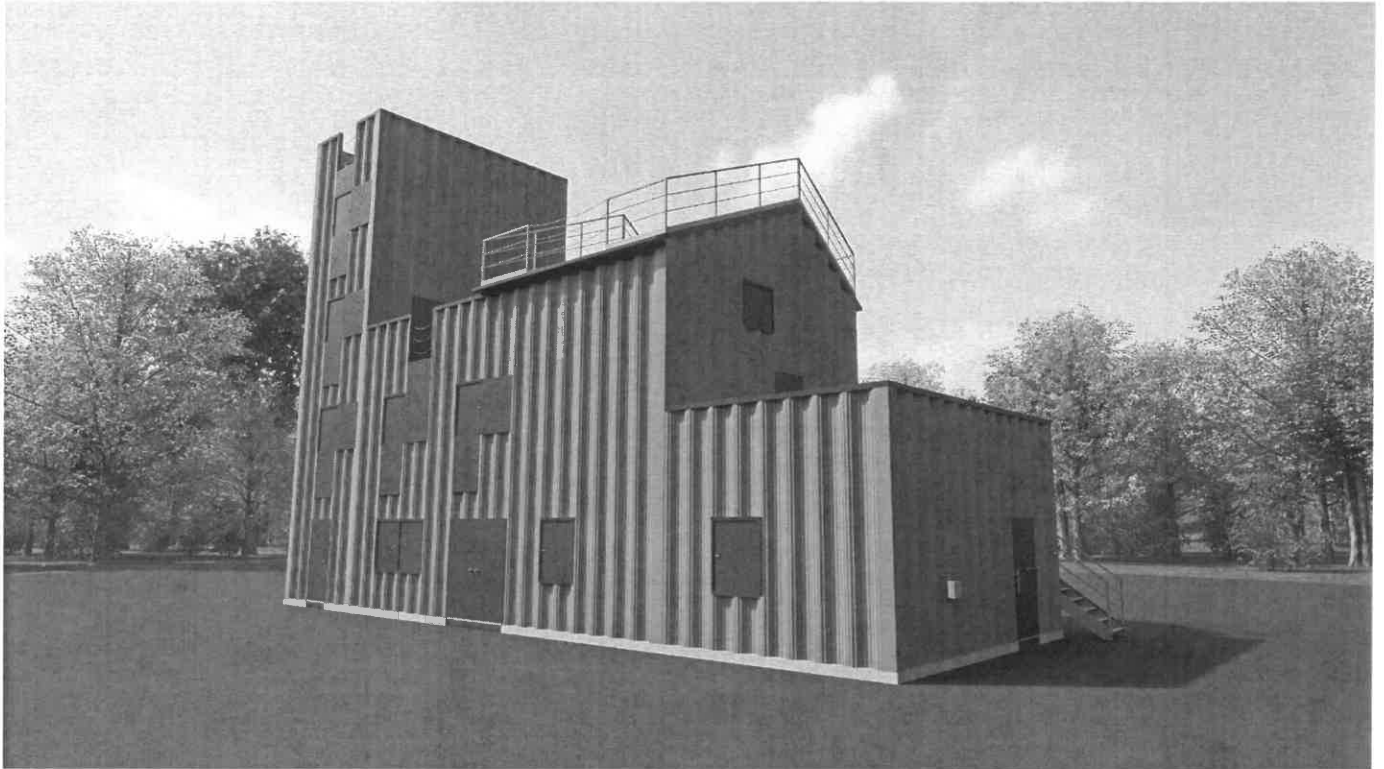
CONTRACTOR: .

By:

Name: _____

Title: _____

Date: _____



Fire Training Structure

Prepared for:
Guilderland Fire District, NY

WHP 4th Alarm – Four Story Training Tower

Submitted By:

Jahnke & Sons Construction, Inc. dba WHP Training Towers

Joseph P. Kirchner – info@trainingtowers.com

Phone: 913-385-3663 Fax: 800-736-7594

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Introduction to WHP Trainingtowers

Thank you for considering WHP Trainingtowers™, the leader in live fire training simulators and burn room liners. *Our experience includes OVER 40 years in the field and more than 1,000 installations worldwide.*

With product lines in **Fire Rescue, Tactical, and Hazmat Response**, WHP Trainingtowers™ provides extensive background in the design and construction of **all hazard training facilities**. Our team approach to this project would be to develop, from the specifications, a preliminary design of the building. We would then meet with the participating entity and any other parties identified by the participating entity to review all aspects of the building as it pertains to training operations and site adaptation to the specific site. From this input we would:

- Develop working drawings for review and changes as appropriate and finalize for approval.
- Develop our building submittal package to present to the authority having jurisdiction for approvals and permits.
- Provide a construction schedule input to keep the project on schedule and meet the completion dates.
- Provide monthly updates on schedule and cost.
- Provide erection of the building.
- Prepare maintenance and operational manuals.
- Final acceptance of the project by the Owners.

We set a high standard for our buildings with regard to quality. Our team is trained to pay attention to minor details in the fabrication of the building and the quality of the materials supplied. We have a checklist that every crew must follow which acts as a reminder to them of the level of quality we expect on each project. This attention to quality is reflected in our offering a 5-year warranty on our structure and 40- years on the paint. More importantly it is reflected in our satisfied customers and longevity of our structures. We truly mean "*Built to Last*".

We pride ourselves on once a contract is executed, we seldom, if ever, have change orders on a project except when the owner changes the scope of a project. We strive to anticipate problems before we finalize our drawings minimizing change orders and cost overruns. Completion of your project on time and in budget is our number one priority.

WHP Trainingtowers™ prides itself on our safety record. We have had no lost time accidents on a job site for the past seven years. We have a written loss control plan, which is applied to every project. We require our subcontractors to have written safety plans and we monitor their activities to ensure a safe working environment is maintained on the projects.

WHP would provide the fire training building design, deliver the building package, follow through on final approval and close out of the project.

Since 1980 WHP has provided the Fire Service with more pre-engineered fire training buildings than any supplier in the world. We are owned and operated by Fire Service Professionals prepared to partner with you from the initial needs assessment to acceptance of the completed product. Our success is directly tied to your satisfaction.

WHP Trainingtowers™ offers many advantages over other options on the market:

- Strength - Nothing in our structural components is lighter than 18-gauge hot dipped galvanized metal.
- Low Maintenance - Built into the system
- Safety - OSHA compliant, engineered to meet YOUR local building codes
- Realism - Designed to simulate "real world" conditions

We blend a strong commitment to quality and safety with the experience to do the job right.

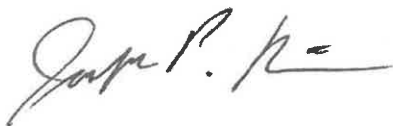
The following persons will be authorized to make representations for this proposal and are located at 519 Duck Road, Grandview, MO 64030, Phone 913-385-3663:

William M. Jahnke, President

Joe Kirchner, Vice President of Operations

We welcome the opportunity to work with you. If you have any questions about our products, or would like to further discuss WHP's proposal, call us at 1-800-351-2525 or visit us online at www.trainingtowers.com!

Sincerely,



Joseph P. Kirchner

WHP Trainingtowers™

Project Approach

Design-Build Team

Design-Build Lead - Corporate Office Location

Jahnke & Sons Construction, Inc. WHP Trainingtowers™

519 Duck Road
Grandview, MO 64030
(913) 385-3663

Registered Design Professional

CEO Structural Engineers, Inc.

Walter Griewing, PE
Chief Design Engineer
6950 Squibb, Ste 230
Mission, KS 66202
(913) 677-9000

Service Network & Key Staff

Executive Summary

Jahnke & Sons Construction, Inc. (JSC) d/b/a WHP Trainingtowers™ (WHP) is a family-owned corporation in the 25th year of business. JSC was established as a local construction company by the owner, Chief William Jahnke (Ret.). In 1997, Chief Jahnke retired as Chief of the Overland Park, KS Fire Department. In 1998, Chief Jahnke acquired WHP. WHP sells pre-engineered fire training towers to fire departments, military, governments, and municipalities throughout the world. JSC's 26 employees work diligently to market, sell, and make the best metal training facility on the market.

WHP was established in 1980 and was the first company on the market to offer an alternative to older costly concrete designs. At WHP, we plan, construct, and stand behind the strongest, most rugged metal structure in the fire training business. Our experience, quality and innovation can be seen in more than 1,000 training tower installations over forty years.

Service Network

WHP has evolved into a marketer of high-quality, custom-made turn key fire training towers. In 1997, William Jahnke purchased the company and, through his full-time commitment, turned it into a very successful family run operation.

In 2021, WHP expanded from 7,000 ft² of office and production space in Overland Park, KS to a facility in Grandview, MO which offers over 18,000 ft² of space and a four-and-a-half-acre storage lot. Our sales team has been fortunate to increase to include multiple technical service representatives as well as a service technician, who all deploy from the Kansas City area as needed.

WHP Trainingtowers™ offers both structural steel fire training tower options as well as modular fire training systems in a variety of models and configurations to meet your training needs. Our offering of standard options and models as well as custom

configurations provides the ability to better control ventilation and fire suppression in a way that more realistically mimics the challenges of today's modern fire environment.

We have provided the Fire Service with more pre-engineered metal fire training towers and buildings than any other supplier in the world and have done so as a licensed turn key contractor and building supplier.

Key Staff

Design-Build Lead

Joe Kirchner

Jahnke & Sons Construction, Inc. WHP Trainingtowers™

Joe heads up the design-build process for WHP. Joe has worked with owners, architects and contractors for more than a decade to develop the best design plan for each specific project while promoting collaboration within WHP as well as with our customers and partners. Since his start with WHP, Joe has been engaged in over 700 projects and he brings with him over 20 years of experience in the fire training industry. If you have a question, Joe will get you the answer. Joe's resume can be found in the appendix.

Field Management/Quality Control

John McCoy

Jahnke & Sons Construction, Inc. WHP Trainingtowers™

John has experience in nearly all of the labor fields, making a collaborative working relationship between Owner-Contractor-Subcontractor easier to obtain and maintain. Strong planning, communication, organizational and decision-making abilities allow him to successfully direct field operations and manage our WHP personnel along with subcontracted personnel. John will be the main field representative ensuring that your project is built up to WHP standards as well as your standards.

Company Profile

WHP is the premier provider of Live Fire Training Towers and Burn Room Liners. We plan, construct and stand behind the strongest, most rugged metal structure in the fire training business. Our experience, quality and innovation can be seen in more than 1,000 training tower installations in over 40 years.

The WHP team has unparalleled experience in fire service and construction. Our background has prepared us to create a strong, safe and realistic fire training environment. We provide training towers built "For fire service professionals by fire service professionals."

WHP has a long history of quality and innovation. WHP pioneered steel fire training buildings in 1980, offering an alternative to older costly concrete designs. WHP continues to set the industry standard.

The steel panels used in our towers are strengthened by compound corrugations. This exclusive building system results in the most rugged training building on the market. WHP does not offer an "off-the-shelf" kit. We work with clients to tailor the right combination of base design features, fixtures and props to both maximize the training experience, and best approximate the needs of the local community served. The building we provide is truly your building and your design. We have crews that only install our buildings thus providing consistent quality control and experienced erectors.

We have completed multiple projects in which we have worked closely with the design team to produce a complete training center complex. We offer a great reservoir of knowledge and experience in design and implementation of fire training facility design and function, which greatly enhance the functionality of our simulators and your ultimate training experience. Our abilities from a building supplier to a full-service general contractor, means the owner has only one firm to deal with and a single point of responsibility.

Proposed Method to Accomplish the Work

Design Phase

WHP Trainingtowers™ – Design Team & Fire District - Representatives

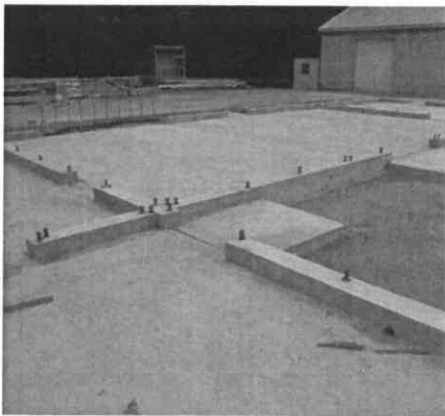
Upon award by the Fire District, WHP will develop a preliminary conceptual set of drawings based on the RFP documents including any options or alternates chosen. This set of drawings will be submitted to the Fire District's Representative for review approximately 2 weeks after award of the contract. After receipt of the conceptual drawings is confirmed, a date will be set for a collaboration meeting between our design team and the Fire District's representatives. During this meeting, the WHP team will be able to learn more about the specific needs of the end users of this structure and provide feedback and recommendations to improve the training capabilities and value engineer certain aspects to improve the overall training structure.

Construction Phase

Site and Foundation Work (by others)

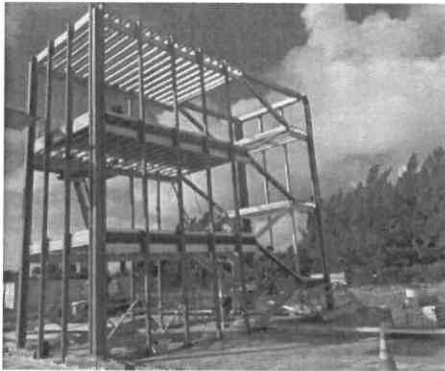


The structure may be a pre-engineered metal building utilizing steel frames or a modular building utilizing pre-manufactured modular components. It will be founded on conventional reinforced concrete spread footings and stem walls or a monolithic foundation design. The Owner shall arrange for the site to be leveled and compacted and for the new foundation system to be installed. A soils report is recommended and will help to define the scope of work and type of foundation required. The soils report will help the design team recommend the solution that best fits the structural plan and project timeline as well as outline where the owner may choose to take some risk in an effort to save money or add optional features into the overall scope of work.



If a conventional foundation is recommended the stem walls will be eight inches thick and reinforced with two #5 bars continuous at the top and bottom of the wall. Continuous forty-eight inch wide by twelve-inch deep footings, with continuous reinforcing bars, will run below the stem wall along the structural wall layout, designed for gravity loads and to resist uplift at the main building frames.

Pre-engineered or Pre-fabricated Building Assembly



Depending on the needs of the fire department, we offer two different types of fire training structures. For the Fire District's Training Structure project we are recommending a pre-engineered steel structure utilizing galvanized structural components and concrete floors for each floor/roof level. The second option is a modular structure which still utilized galvanized structural components; however, the floor/roof surfaces are a steel/fiberglass composite for strength and modular flexibility. Both structures can be provided with either a 20-year warranted factory paint finish or a mortarless brick façade. We have included a general catalog of our standard part numbers for various sizes of training structures. Any of our standard models can be customized specific to the end user's needs.



Project Experience

City of Rogers Rogers, AR

Client

City of Rogers
3003 West Oak Street
Rogers, AR 72756

Contact

Chief Tom Jenkins
479-621-1179
tjenkins@rogersar.gov

Features

5 Story Custom
38' Balcony W/2- Story Stair
Residential ½ Gabled Roof with Attic And ½ Parapet With No Attic
Working Surface 21' Annex Roof with Railing And 3-Line Chain
Super Padgenite
Nichiha Brick Panel Exterior
Inset Corner Balcony W/Door and Railing At 3rd Floor
Pivot Door from Inset Balcony To 3rd Door Burn Room
Smoke Distribution
Temperature Monitoring
Completed In 2020



Project Team

WHP: General Contractor
William Jahnke
Joe Kirchner

Scope of Work

Structural building
Burn room liner

**FLORIDA STATE FIRE COLLEGE
OCALA, FL**

Client

Florida State Fire College
11655 NW Gainesville Rd
Ocala, FL 34482

Contact

Chief Mark Harper
(352) 369-2833
mark.harper@myfloridacfo.com

Features

High rise, 5 story custom
3 Burn rooms
Breaching props
Smoke distribution system
Open top deck
Sprinkler system
Ladder access to roof
Confined space
Inset balcony
Gas simulator
Completed in 2018

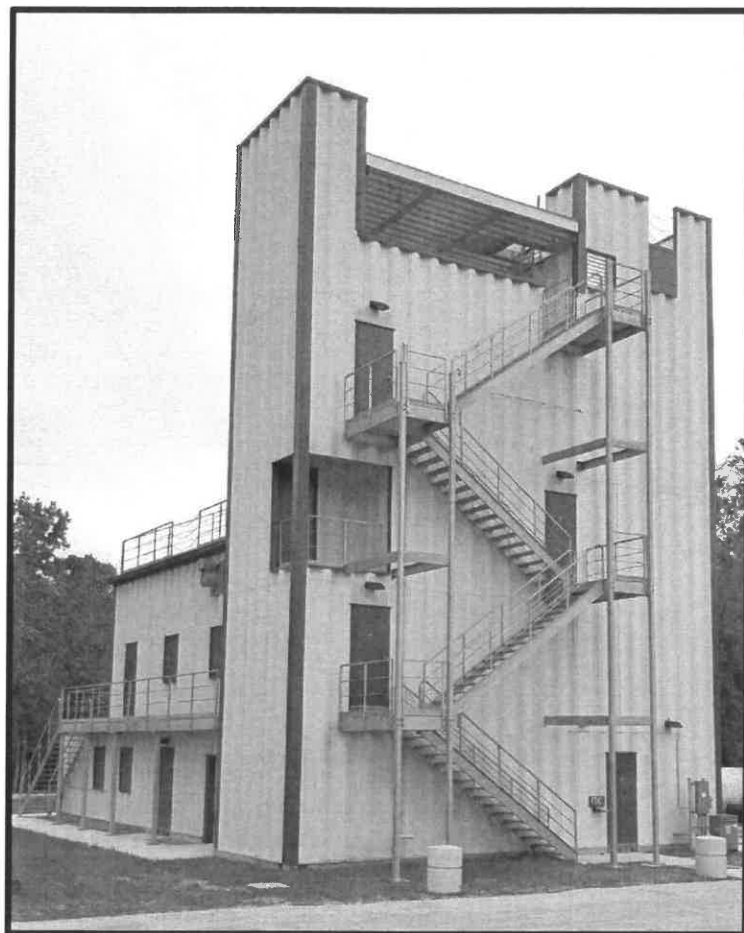
Project Team

WHP: Sub Contractor
William Jahnke
Joe Kirchner

Anglin Construction:
General Contractor

Scope of Work

Structural building
Burn room liner
Gas simulators



**COLUMBUS FIRE AND EMS
COLUMBUS, GA**

Client

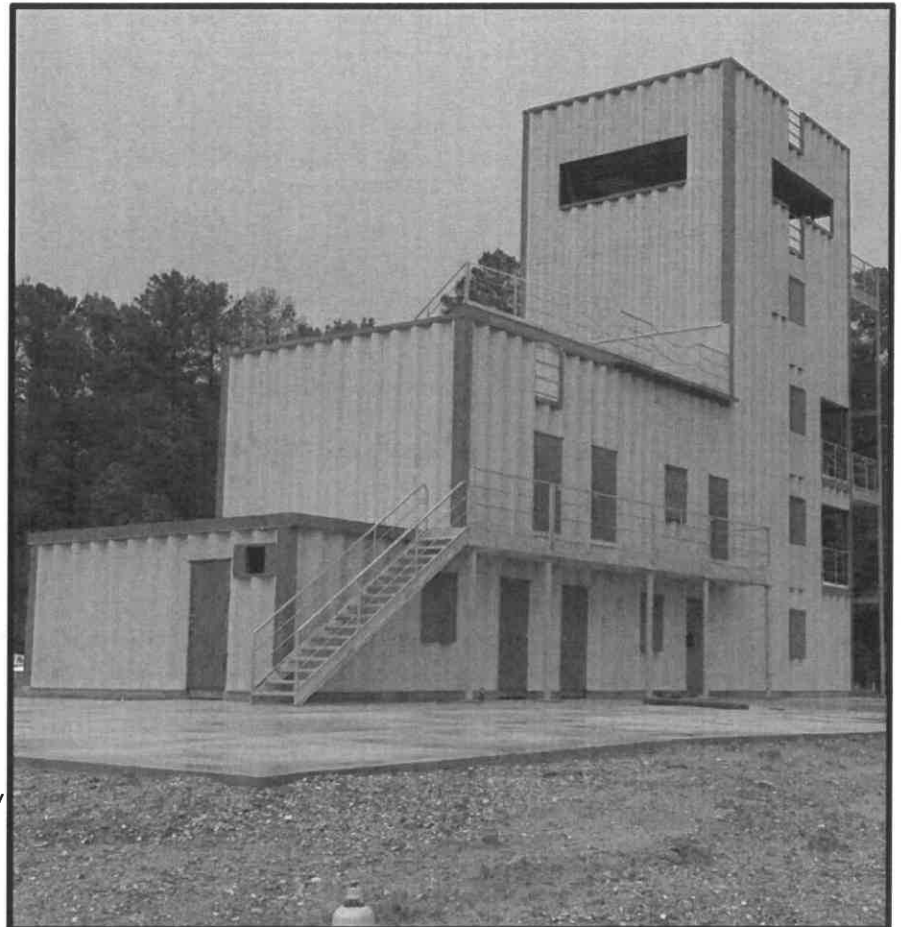
Columbus Fire and EMS
1905 3rd Avenue
Columbus, GA 31901

Contact

Training Chief Daniel Macon
706-575-0293
dmacon@columbusga.org

Features

General Alarm, 5 story custom
2 Burn rooms
Breaching props
Smoke distribution system
Open story
Sprinkler system
Ladder access to roof
Confined space
Inset balcony
Cantilevered rappelling balcony
Gas simulators
Exhaust Fan
Completed in 2017



Project Team

WHP: General Contractor
William Jahnke
Joe Kirchner

Scope of Work

Structural building
Burn room liner
Gas simulators

ROME-FLOYD FIRE DEPARTMENT
ROME, GA

Client

Rome-Floyd Fire Department
409 East 12th Street
Rome, GA 30161

Contact

Jamie Stone, Chief of Training
706-236-4505
jstone@rome.ga.us

Features

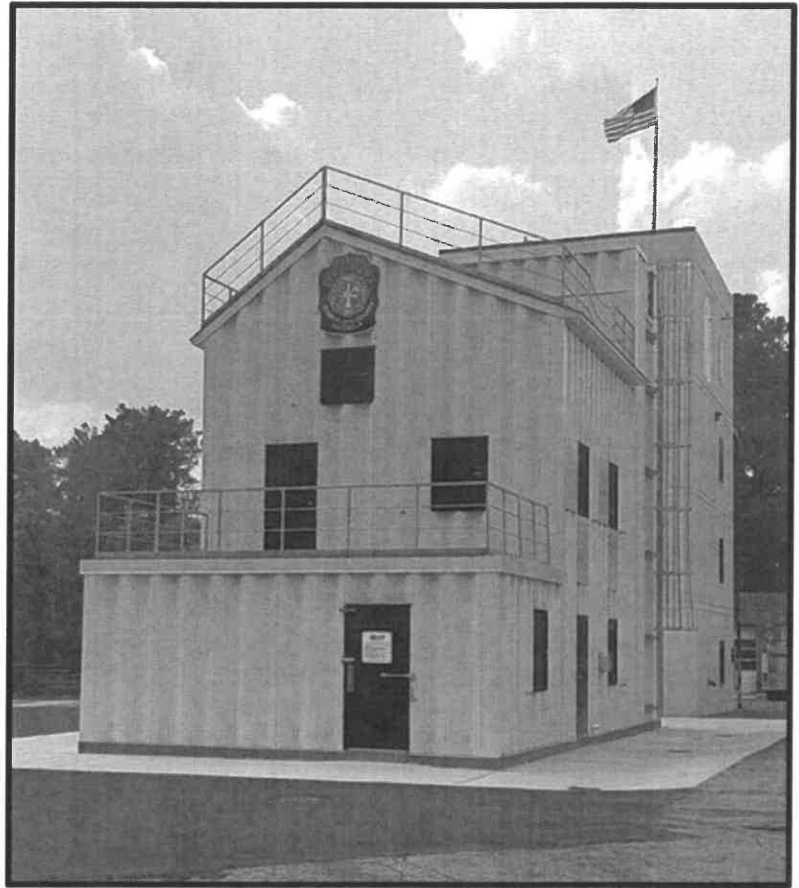
Third Alarm, three story
2 Burn rooms
Breaching props
Sprinkler system
Ladder access to roof
Floor doors
Cantilevered rappelling balcony
Caged ladder
Maze system
Completed in 2021

Project Team

WHP: General Contractor
William Jahnke
Joe Kirchner

Scope of Work

Structural building
Burn room liner



**SILOAM SPRINGS FIRE DEPARTMENT
SILOAM SPRINGS, AR**

Client

Siloam Springs Fire Department
1450 Cheri Whitlock Dr.
Siloam Springs, AR

Contact

Deputy Chief John Vanatta Jr
479-524-3103
jvanatta@siloamsprings.com

Features

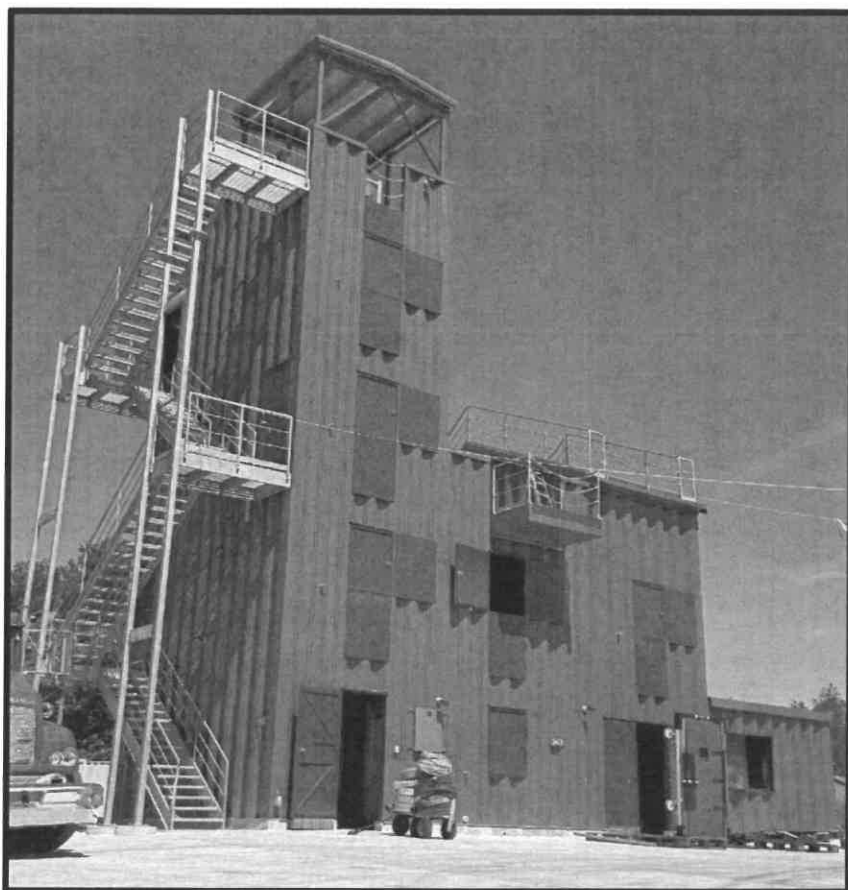
Third Alarm, four story
2 Burn rooms
Breaching props
Sprinkler system
Ladder access to roof
Floor doors
Cantilevered rappelling balcony
Maze system
Shade canopy
Completed in 2019

Project Team

WHP: General Contractor
William Jahnke
Joe Kirchner

Scope of Work

Structural building
Burn room liner



Standard Products and Descriptions

Alarm Series™ Technical Specification

Section 13144 – FIRE FIGHTING SIMULATOR

PART 1– GENERAL

1.1 Work Included

- A. The work under this section shall include the furnishing of all items shown as specified including:
 - 1. Steel building system.
 - 2. Prefabricated and custom metal stair systems.
 - 3. Railing, anchors, supports, and other accessories.
 - 4. Steel closures, doors, door hardware, and hollow metal door frames.
 - 5. Burn room insulating system.

1.2 Related Sections

- A. Division 3 – Supply and setting of anchor bolts
- B. Division 3 – Grouting
- C. Division 3 – Concrete foundations, grade beams, and floor slabs
- D. Division 3 – Concrete fill on elevated decks

1.3 Definition

- A. This simulator shall be used to provide training for firefighters in a controlled simulated environment, which is commensurate with actual fire conditions. These specifications shall be used in conjunction with the drawings for dimensions, features, and exact configuration of the training structure.

1.4 References

- A. National Fire Protection Association (NFPA)
 - 1. NFPA 1402 – Standard on Facilities for Fire Training and Associated Props
 - 2. NFPA 1403 – Standard on Live Fire Training Evolutions
- B. American Society for Testing and Materials (ASTM)
- C. AWS D1.1 – Structural Welding Code – Steel
- D. American Institute of Steel Construction (AISC), Manual of Steel Construction, latest edition
- E. Occupational Safety and Health Standards (OSHA)
 - 1. 29 CFR 1910.23 – Guarding Wall and Floor Openings
 - 2. 29 CFR 1910.24 – Fixed Industrial Stairs
 - 3. 29 CFR 1910.27 – Fixed Ladders
- F. Steel Deck Institute (SDI), SDI 30 - Design Manual for Composite Decks, Form Decks, Roof Decks; Steel Deck Institute, Inc.

1.5 Design Requirements

A. Structural Requirements

1. Provide metal building system capable of withstanding the effects of gravity loads and the following loads & stresses within the limits and under conditions indicated.
 - a. Live Loads:
 - 1) Floor: 100 PSF
 - 2) Attic: 100 PSF
 - 3) Flat Roof: 100 PSF
 - 4) Sloped/Gabled Roof: 100 PSF
 - b. Wind Requirements:
 - 1) Wind Load: [] mph (local code)
 - 2) Wind Exposure: [A, B, C, or D] (local code)
 - c. Seismic Requirements:
 - 1) Site Class: [A, B, C, D, E, or F] (local code)
 - 2) S_s (Short Period) [] (local code)
 - 3) S_1 (1-Second Period) [] (local code)
 - d. Risk Category: [I, II, III, or IV] (local code)
 - e. Deflection Limits: Engineer primary & secondary framing components, floor systems, and wall assemblies to withstand design loads with deflections no greater than 1/240 of the span.
 - f. Exterior Wall Panel System:
 - 1) The building shall be capable of supporting a 1500 pound point load at any point on the exterior wall of the structure.
 - g. Handrails and Guardrails:
 - 1) Uniform load of 50 lb/ft applied in any direction
 - 2) Concentrated load of 200 lbs applied in any direction
 - 3) Uniform and concentrated loads need not be assumed to act concurrently.

B. Code Requirements

1. Structural design shall comply with the [International Building Code 2012 edition].
2. Safety design shall comply with applicable OSHA requirements.
3. Training shall comply with applicable NFPA 1403 requirements.
4. Due to the nature of the intended use, egress and fire code requirements are not expected to satisfy the code criteria for buildings intended to accommodate public occupancy.
 - a. Local codes may require the simulator to have a variance due to the intended use and features unique to its application.

- b. It is the responsibility of the owner or owner's representative to determine the proper procedures and variances for their location and obtain the necessary variances or requirements.

1.6 Submittals

A. Shop Drawings

1. Submit steel building drawings showing structural panel layouts, structural frame layouts, joist layouts, locations of openings, building attachment details, and other details as may be required for a weather-tight installation.
 - a. Furnish [3] sets of steel building shop drawings bearing the stamp and signature of a professional engineer registered in the State of New York.
2. Submit miscellaneous metal drawings showing stairs, railing, ladders, window closures, and any other shop fabricated items.
 - a. Show member sizes, weld symbols, and attachment details.
 - b. Furnish [3] sets of shop drawings with a letter of structural conformance bearing the stamp and signature of a professional engineer registered in the State of New York.

B. Calculations

1. Furnish [3] sets of steel building calculations bearing the stamp and signature of a professional engineer registered in the State of New York.

C. Burn Room Liner

1. Submit [3] sets of cut sheet information on the burn room liner.
2. Submit [3] sets of MSDS reports on all applicable materials to be used as burn room liner.
3. Submit [3] 3"x3" samples of burn room liner material.
4. Submit [3] sets of burn room layout drawings including ceiling layouts, wall layouts, and any necessary details.

D. Miscellaneous Submittals

1. Submit [3] sets of cut sheet information on all applicable additional materials including rappelling anchors, shutter slam latches and handles, temperature sensing and indicating system, shingles, felt, plywood, color charts, and any other materials included as options.

1.7 Quality Assurance

- A. Supplier shall have a minimum of 10 years experience in the design, engineering, and fabrication of fire training simulators and must offer these turn-key services to complete this section of work.
- B. Erector shall be qualified by the supplier and have a minimum of 5 years experience installing pre-engineered metal building projects and a minimum of 5 completed projects of similar size and scope.

1.8 Delivery, Storage, and Handling

- A. All components and accessories necessary for the assembly of the simulator including interior stairs, decks, and insulating material for burn rooms shall arrive at the project site by over-the-road trailer. Other small items including, fasteners, instruments, and instrumentation shall be delivered separately.

- B. Store all building components according to building storage instructions above ground, separated, and protected from exposure to the elements & from physical damage caused by other activities.
- C. During storage, space surfaces of materials to permit free circulation of air.
- D. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.9 Warranty

- A. Supplier shall provide a one (1) year warranty from the date of Substantial Completion warranting all components to be free from defects in materials and workmanship under normal use and service.
- B. Supplier shall provide a five (5) year extended materials and workmanship warranty from the date of structure delivery warranting all components included in the "Steel Building System" to be free from defects in materials and workmanship under normal use and service.
- C. Supplier shall provide a thirty/forty (30/40) year extended life warranty from the date of structure delivery warranting the wall panel factory paint finish.
- D. Supplier shall provide a five (5) year warranty from the date of Substantial Completion warranting the thermal liner panels to be free from defects in materials and workmanship under normal use and service.

PART 2- PRODUCTS

2.1 Suppliers

- A. Acceptable Suppliers: WHP Trainingtowers; 519 Duck Road, Grandview, MO 64030. TEL: (800) 351-2525 or (913) 385-3663. FAX: (800) 736-7594. Email:info@trainingtowers.com Website:www.trainingtowers.com
- B. Substitutions: As approved per Owner/Architect. Must be submitted [14] calendar days prior to bid date.
 - 1. Include full set of drawings with submittal prior to bid.
 - 2. Include cut sheets and/or samples of all products included in the package including but not limited to doors, door frames, hardware, shutters, burn room liner, and paint prior to bid.
 - 3. Provide an itemized list, specifically referencing each item of this specification section where the proposed substitution deviates from the specified product.

2.2 Materials

- 1. Conform to applicable ASTM specifications.
- 2. Galvanize all structural and non-structural materials used, less than 1/4" in thickness, whether or not exposed to the elements.

2.3 Fasteners

- A. Provide pre-drilled/pre-punched holes for bolted attachment of material during erection.
- B. Field bolt wall panel system with 3/8" electro-galvanized, powder coated bolts at 6" on center.

- C. Furnish wall panel system fasteners with a nylon washer to complete the weather-tight seal.
- D. Provide fasteners of sufficient strength to support connected members and loads, and to develop full strength of parts fastened or connected.
- E. Anchor bolts shall meet the diameter specified on the anchor bolt plan.
 - 1. Anchor bolts are not included in this section.

2.4 Shop Finish Painting/Coating

- A. Clean, prepare surfaces and shop prime structural steel except where members are zinc or aluminum-zinc alloy coated, or are to be incased in concrete.
- B. Paint system for wall panel steel exposed to the exterior. Factory applied silicone modified polyester in accordance with manufacturer's standard procedures. Minimum dry film thickness 1.0 mils. Color to be chosen from manufacturer's nine (9) standard wall colors below.
- C. Factory finish for all structural roof panels. Steel shall be galvanized to conform to ASTM A653 Z275 zinc coating.
- D. Paint system for wall corner steel exposed to the exterior. Factory applied silicone modified polyester or electrostatic-applied polyester powder coating in accordance with manufacturer's standard procedures. Minimum dry film thickness 1.0 mils. Color to be chosen from manufacturer's nine (9) standard wall colors below.
- E. Paint system for flat roof and gabled roof steel trim exposed to the exterior. Factory applied silicone modified polyester or electrostatic-applied polyester powder coating in accordance with manufacturer's standard procedures. Minimum dry film thickness 1.0 mils. Color to be chosen from manufacturer's twelve (12) standard trim colors below.
- F. Paint system for all window shutters, headers, jambs, and sills exposed to the exterior. Factory applied silicone modified polyester or electrostatic-applied polyester powder coating in accordance with manufacturer's standard procedures. Minimum dry film thickness 1.0 mils. Color to be chosen from manufacturer's twelve (12) standard trim colors below.
- G. Paint system for all protective wear plates exposed to the exterior. Factory applied aliphatic urethane or electrostatic-applied polyester powder coating in accordance with manufacturer's standard procedures. Minimum dry film thickness 1.0 mils. Color to be chosen from manufacturer's twelve (12) standard trim colors below.
- H. Paint system for all doors. Factory applied aliphatic urethane in accordance with manufacturer's standard procedures. Minimum dry film thickness 2.0 mils. Color to be chosen from manufacturer's twelve (12) standard trim colors below.
- I. Shop finish for all stair stringers, stair rails, guardrail, bar grate treads, bar grate roof surfaces, steel balconies, steel landings, ladders, and rappelling anchors. Steel shall be hot-dipped galvanized to conform to ASTM A123 after drilling, punching, cutting, bending and welding.
- J. Shop finish for all other miscellaneous items including but not limited to access hatches, studs, sheeting, hat channels, and decking. Steel shall be galvanized to conform to ASTM A653 Z275 or ASTM A123.
- K. Factory finish for roof hatches. Roof hatches shall be provided with manufacturer's standard factory-applied grey powder coat.

- L. Factory treatment of burn room liner. Burn room liner shall be pre-treated with coating system to be water resistant/repellent.

2.5 Standard Fire Fighting Simulator System

A. Weather Sealing

1. The footing channel for the building shall be placed over one sponge rubber strip, which shall seal the footing channel to the concrete foundation.
2. All exterior wall panels and vertical seams, which are metal-to-metal laps, shall be sealed with a continuous strip of sealer. The sealer shall not run, separate, or deteriorate with age.
3. All sealer shall be applied according to assembly drawings to form a weather tight structure.
4. The structural panel walls and structural panel roof system shall be weather tight upon completion.

B. Roof Systems

1. Structural Roof System

- a. The flat roof structure shall be a structural single panel roof system and shall consist of all metal panels, which are prefabricated, marked, and ready for assembly. The roof shall be constructed of not less than 14-gauge galvanized steel, roll formed into 7¹/₂" deep compound corrugations, sealed with approved sealer, and connected together with ³/₈" diameter bolts, spaced not more than 6" apart for a weather tight seal, which forms a continuous draining system. Splices shall be completely capable of developing the entire bending moment capability of the panel.

2. "Safe Deck" Roof System

- a. Flat roof surfaces designated as working decks shall be a galvanized bar grate system. When specified, 19W-4, 1" x ¹/₈" galvanized bar grate shall be provided with a 14-gauge galvanized support channel system and all required fasteners and anchoring devices. "Safe Deck" shall be applied over the structural panel system, which forms a continuous draining roof system.

3. Parapet Roof System

- a. Flat roof surfaces designated as a parapet roof shall be a concrete working deck. The decks shall be a metal deck designed for concrete fill. The deck shall be supported on 14-gauge minimum structural "C's" placed 12" on center. The deck gauge shall be as designated by the deck manufacturer, G60 galvanized, to achieve the design loads. A minimum of 4" of concrete shall be installed over the deck to provide a smooth working surface. The concrete shall be sealed and reinforced with chopped strands of fiberglass to form a matrix to reinforce the concrete and protect from shrinkage and temperature cracking. The concrete shall be pitched toward parapet openings or to EDS as described in section 2.5 B.3.b. The concrete mix design and installation is not covered in this section.
- b. All exterior roof areas with parapet walls shall have concrete floors sloped to an Engineered Drainage System [EDS] The EDS consists of a "trench style" floor drain which is piped internally down to the first floor level and

to the outside of the building. The floor drain shall have a removable bar grate cover that will allow the drain to be cleaned and flushed if necessary. (Concrete supplied by others).

4. Gabled Roof System

- a. Gabled roof structures shall be constructed utilizing structural steel trusses, structural plywood deck, and composition shingle roof covering. The composition shingles shall be 25-year single tab seal down as manufactured by Owens-Corning Fiberglas Corp., Tamko Roofing Products, Inc., Certain-Teed Corp., or similar quality shingles. The granular surface shall meet OSHA requirements for slip resistance. The deck shall be minimum $\frac{3}{4}$ " nominal T & G plywood with exterior glued laminates. 15 lb. felt underlayment shall be installed on the deck. Roof chop-outs shall be replaceable and flush with roof to prevent a tripping hazard. Roof shall have minimum 18-gauge painted fascia and soffit trim.

5. Sloped Roof System

- a. Single sloped roof structures shall be constructed utilizing 14-gauge minimum structural steel "C's" placed 12" on center, structural plywood deck, and composition shingle roof covering. The composition shingles shall be 25-year single tab seal down as manufactured by Owens-Corning Fiberglas Corp., Tamko Roofing Products, Inc., Certain-Teed Corp., or similar quality shingles. The granular surface shall meet OSHA requirements for slip resistance. The deck shall be minimum $\frac{3}{4}$ " nominal T & G plywood with exterior glued laminates. 15 lb. felt underlayment shall be installed on the deck. Roof chop-outs shall be replaceable and flush with roof to prevent a tripping hazard. Roof shall have minimum 18-gauge painted fascia and soffit trim.

C. Wall Systems

1. The structural steel panel shall be G90 hot-dipped galvanized, painted one side, steel, and conforming to the appropriate ASTM specification. The panels shall be roll formed from flat steel and shall have a minimum corrugation depth of $4\frac{1}{2}$ ". Panels shall be joined at their seams, which shall lap a minimum of $\frac{1}{2}$ ", and shall be held together with $\frac{3}{8}$ " bolts spaced not more than 6" center-to-center. All connection holes in the panels shall be factory pre-punched. Self-tapping fasteners are not acceptable. The vertical seams shall be sealed with a sealer. The wall panels of the building shall have sufficient shear resisting capabilities to give the building structural stability when vertical and horizontal loads are applied. To promote ladder safety, the vertically ribbed cladding shall allow ladders to nest within the ribs of the cladding preventing lateral movement at the upper support point of the ladder.
2. Framing for load bearing walls shall be a minimum of 12-gauge, hot-dipped, G90 galvanized "C's" placed 3'-5" center-to-center or 3"x 4"x $\frac{1}{4}$ " prime painted structural tubing. All mounting plates at the bottom of each vertical shall be attached to the building foundation using the foundation anchor bolts.
3. Framing for interior non-load bearing walls shall be framed with 4", 18-gauge minimum (12-gauge for door hinge jamb studs), galvanized studs spaced a minimum of 24" on center. The face of the wall shall be minimum 18-gauge galvanized sheeting on both faces of wall to conceal stud framing.

D. Floor Systems

1. Floor shall be supported on structural "C's" placed 12" on center. The "C's" shall be a minimum of 14-gauge or heavier as designed by the building engineer. "C's" shall be a minimum of 10" in depth nominally and G90 hot-dipped galvanized. There shall be weeps in the bottom of the "C's" for drainage of water. Headroom shall not be reduced with the use of structural beams and shall have a minimum floor to ceiling height of 8'-9" across the entire floor area.
 - a. All floor surfaces shall be a concrete working deck. The decks shall be a metal deck designed for concrete fill. The deck shall be supported on 14-gauge minimum structural "C's" placed 12" on center. The deck gauge shall be as designated by the deck manufacturer, G60 galvanized, to achieve the design loads. A minimum of 4" of concrete shall be installed over the deck to provide a smooth working surface. The concrete shall be sealed and reinforced with chopped strands of fiberglass to form a matrix to reinforce the concrete and protect from shrinkage and temperature cracking. The concrete shall be pitched toward doors and exterior walls or to EDS in the burn rooms above 1st floor as described in section 2.5 D.1.b. The concrete mix design and installation is not covered in this section.
 - b. All burn rooms floors above first floor shall have concrete floors sloped to an Engineered Drainage System [EDS] The EDS consists of a "trench style" floor drain which is piped internally down to the first floor level and to the outside of the building. The floor drain shall have a removable bar grate cover that will allow the drain to be cleaned and flushed if necessary. (Concrete supplied by others).

E. Access Openings

1. Steel Doors

a. Materials

- 1) Sheet face is to be made of commercial quality 11 gauge steel.
- 2) Reinforce top, bottom and sides of all doors with continuous steel channel not less than 3/16" thick, extending the full perimeter of the door and stitch welded to the face sheet.

b. Door Framing

- 1) Each exterior framed opening shall be provided with drip lip header.
- 2) Stud support for hinge side jamb stud shall be a minimum of 12-gauge, hot-dipped, G90 galvanized "C".

c. Door Hardware

- 1) All non-burn room doors shall have a heavy duty stainless steel Grade 1 cylindrical knob. All doors accessible from the ground shall have a Schlage "C" keyway and shall be keyed alike.
- 2) All burn room doors shall have 1" of Padgenite material, shall have a high-tension spring closure rated for doors exceeding 200 pounds, and a roller closure to provide a controlled closure lessening the final impact to bring the door into the closed position. All doors accessible from the ground shall have a slide bolt able to be secured in both the locked and unlocked position.
- 3) Continuous hinge shall be 11 gauge stainless steel with a 3/8" diameter pin and be stitch welded to the door face and bolted to the jamb 6" on center.

- 4) Locksets conform to ANSI, Grade 1
 - a) All locksets shall be keyed alike.
- 5) Passage latches conform to ANSI, Grade 1
- 6) Strikes conform to ANSI A156.2
- 7) Door pull plate sets shall be stainless steel and conform to ANSI A156.6
- 8) High-temperature door sweep supplied on all doors except control room doors and elevator shaft doors, if any, that do not rest on a stem wall.

2. Window Shutters

a. Materials

- 1) All framed window openings shall receive 12-gauge steel, single leaf closure.
- 2) Window closures shall be constructed with a recessed lip perimeter and welded construction. The windows shall be designed to provide an overlap to the interior or exterior to minimize outside light.

b. Window Opening Framing

- 1) Each exterior framed opening shall be provided with drip lip header.
- 2) Stud support for hinge side jamb stud shall be a minimum of 12-gauge, hot-dipped, G90 galvanized "C".

c. Window Hardware

- 1) All non-burn room windows shall have an operating lever latch with handles on the inside and outside of the door. All windows accessible from the ground shall have a key lock lever and shall be keyed alike.
- 2) All burn room windows shall have 1" of Padgenite material.
- 3) Continuous hinge shall be 14 gauge with a 1/4" diameter pin and be stitch welded to the shutter face and bolted to the jamb 6" on center.
- 4) Counterweighted shutter holdback shall be hot-dipped galvanized and mounted to exterior wall to hold the shutter in the open position.
- 5) Wear plates shall be provided under and to one side of each window opening accessible by ground ladder. Wear plates shall be heavy gauge rigidized and painted steel to provide a wear surface for high-traffic wall areas. Wear plates shall be installed to allow for ease of replacement in the future.

F. Stair Systems

1. Stringers shall be 1½" wide channel, minimum MC10x8.4. Drill all required holes prior to hot-dip galvanizing.
2. Stair top rails shall be minimum 1½"x 1½"x 11 gauge square tubing. Mid-rails shall be ¾" solid steel rod. Distance between rails shall be a maximum of 12". Rails shall be a three-line design and shall be a completely welded assembly welded to the posts with all welds ground smooth, prior to hot-dip galvanizing.
3. Stair end posts and intermediate posts shall be minimum 1½"x 1½"x 3/16" structural square tubing. Posts shall be a completely welded assembly welded to the stair stringer and rails with all welds ground smooth, prior to hot-dip galvanizing.

4. Handrails shall be hot-dipped galvanized schedule 40 pipe with a 1.66" outside diameter. Handrails shall extend from the nose of the first tread to the nose of the landing for each run of stairs.
5. Stair treads shall be constructed of 19W-4, 1" x 3/16" bar grate, hot-dipped galvanized steel with checker plate nosing. Intermediate stair landings, where used, are to be identical to stair treads in design. The stair treads shall be bolted to the stringer to allow for ease of replacement of damaged treads.

G. Rail Systems

1. Top edge height of top rails shall be 42" plus or minus 3" above the walking/working level.
2. Top rails shall be minimum 1½"x 1½"x 11 gauge square tubing. Mid-rails shall be ¾" solid steel rod. Distance between rails shall be a maximum of 12". Rails shall be a three-line design and shall be a completely welded assembly welded to the posts with all welds ground smooth, prior to hot-dip galvanizing.
3. End posts and intermediate posts shall be minimum 1½"x 1½"x 3/16" structural square tubing. Posts shall be a completely welded assembly welded to the toe board and rails with all welds ground smooth, prior to hot-dip galvanizing.
4. Toe board and kick plates shall be structural steel angle 4" x 6" x 5/16" or 4"x 5/16" flat bar welded to the railings prior to hot-dip galvanizing and bolted through the concrete deck or structural members.

H. Burn Room Lining System

1. High temperature insulating panels and attachment materials shall be provided for the interior walls, ceiling, doors, and windows of the burn rooms as specified.
2. Panels/tiles in burn rooms shall be supported by a system of 18-gauge galvanized mounting channels fastened to the building steel wall verticals using proper Tek screws.
3. Panels/tiles shall be pre-cut to size and shall be 1" thick. Panels shall be pre-treated with a coating system to be water resistant/repellent. Panels shall allow for live fires in temperature ranges of 1200 to 2000 degree F maximum depending on type of panel/tile specified. Seams and joints shall be backed with 1" thick battens of similar material. Panels shall be fastened by 3" Tek screws with ¼" x 1 ¼" washers through oversized 5/16" diameter field drilled holes, six per 2' x 4' panel. Use of "speed clips," insulating clips or building insulation washers is prohibited. Panels shall be installed with a ½" gap between panels and the panel perimeter shall be screwed to the channels. Fasteners shall be left with the washers being able to be turned with moderate pressure on the board.
4. Super Padgenite HD insulating panels and accessories shall be capable of protecting the wall and ceiling surfaces of masonry, concrete or steel room, inclusive of windows, closures and doors from damage due to enclosed fires. Insulating materials shall be a minimum of: 1" thick, 75 PCF density, 3000 psi flex strength, possess a "K" factor of 1.92 or less at a mean temperature of 800° F., and be capable of continuous service at temperature ranges to 2000° F. System shall withstand repeated exposure to heat and the application of water to heated surfaces without the breakdown of insulating properties. Insulating materials shall not require "drying out" periods following the application of water nor be subject to "spalling" due to heat/moisture conditions. There shall be no restrictions imposed upon the nature of the Class A fuel source, the fire location within neither the room nor any requirement of "special" precautions prior to ignition. A full set of installation drawings shall be prepared by the panel supplier

and submitted for approval, which clearly shows the panel layout, sub-framing system and attachment layout. Materials proposed as equal to the "Super Padgenite HD" panels shall be approved seven (7) days prior to bid due date. The contractor shall provide a sample of the material, written specifications, engineered drawings showing a typical installation with hardware and sub-framing system clearly shown, and a MSDS.

5. Accessories shall be furnished and installed for temperature sensing and indicating system and shall include two thermocouples for each burn room with high temperature wire to a pyrometer. A weatherproof box shall be mounted to building. One portable pyrometer for temperature monitoring (ranges of -199 to +1999 degree F with, LED display with battery power), a minimum of ten receptacles with male plugs, and a selector switch for ten circuit monitoring shall be included. Thermocouples shall be mounted at two different elevations within the burn rooms with wire from each run to box location. Boxes shall be mounted per the direction of the owner.
6. Complete layout drawings shall show all elevations, views, and details the location of the mounting channels, battens, and cut pieces of panels.

I. Accessories

1. Roof hatches shall be minimum 14 gauge galvanized steel powder coated grey. Metal cover shall be gasketed and internally stiffened to withstand a live load of 40psf. Hardware shall include gas spring(s) with damper, heavy-duty hinges with stainless steel pin, automatic latching hold open arm, and zinc plated slam latch with interior and exterior handles.
2. Floor doors shall be minimum 3/16" diamond plate steel with an angle frame. Door shall be designed to withstand a live load of 300psf. Hardware shall include enclosed coil spring(s), heavy-duty stainless steel hinge, automatic latching hold open arm, and zinc plated slam latch with inside lever handle.
3. Floor access hatches shall be minimum 3/16" diamond plate steel with a stainless steel 1/4" pin continuous hinge.
4. Rappelling anchor(s) shall be a forged swivel-style anchor with 360° swivel angle and 180° pivot angle and provided with a hot-dipped galvanized finish. The rated load for each unit shall be 10,000 lbs. as designated in NFPA 1402. Each anchor shall be 200% proof tested and include a unique certificate of conformance referencing the specific unit serial number.
5. Overhead rappelling anchor(s) shall include a standard rappelling anchor and an overhead mounting bracket designed to mount to the structural wall system.
6. Rappelling rail(s) shall be hot-dipped galvanized and fully welded assemblies. The rail shall be 48" in height and 45" in width with two cross-bars; one 25" above the roof and one 46" above the roof. Rappelling rails are to be used in conjunction with rappelling anchors to elevate the roof off of the working surface and are not intended as a tie-off point.
7. Standpipe shall be a dry standpipe with 4" diameter schedule 10 pipe and grooved couplings. A 4x2 1/2x2 1/2 F.D.C. shall be provided at the exterior of ground level and 2 1/2" rough brass fire department valves with caps and chains shall be provided at each interior level.
8. Sprinkler run shall be tapped off of the dry standpipe utilizing 1" diameter schedule 40 pipe. Near the tap point, the sprinkler pipe shall include a manual 1/4 turn valve to operate the sprinkler head(s). Sprinkler head(s) shall be 1/2" 5.6k 165° pendent(s).

9. Exhaust fan shall be a wall mounted direct drive fan with shutter. The fan shall have a 36" diameter up to 8,225 CFM. The fan shall be 115VAC, 60 Hz, single phase, with 6.4 full load amps. Power supply by others.
10. Smoke distribution system shall be a self-contained operation unit with an integrated smoke machine and 8 individually controlled fans to distribute smoke to up to 8 locations throughout the training structure. The system shall include a 1300-watt smoke machine designed to produce up to 30,000 CFM. Each distribution fan shall be designed for up to 120 CFM.

2.6 Building Description

- a. As shown in the proposed drawing package

2.7 Additional Items

- A.

2.8 Items to be Included as Options

- A.

PART 3 – EXECUTION

3.1 Examination

- A. Verify that concrete work has cured a minimum of 14 days. Verify that anchor bolts are at the proper spacing and protrude the proper amount above the concrete. Report any variances to the owner's representative prior to proceeding with erection.
 1. Concrete stem wall elevation must be within tolerance of +/- 1/4".
 2. Anchor bolts placement must be within tolerance of +/- 1/8".

3.2 Installation

- A. Comply with the respective manufacturer's recommendations for preparation of building components.
- B. Comply with respective manufacturer's instructions and approved shop drawings.

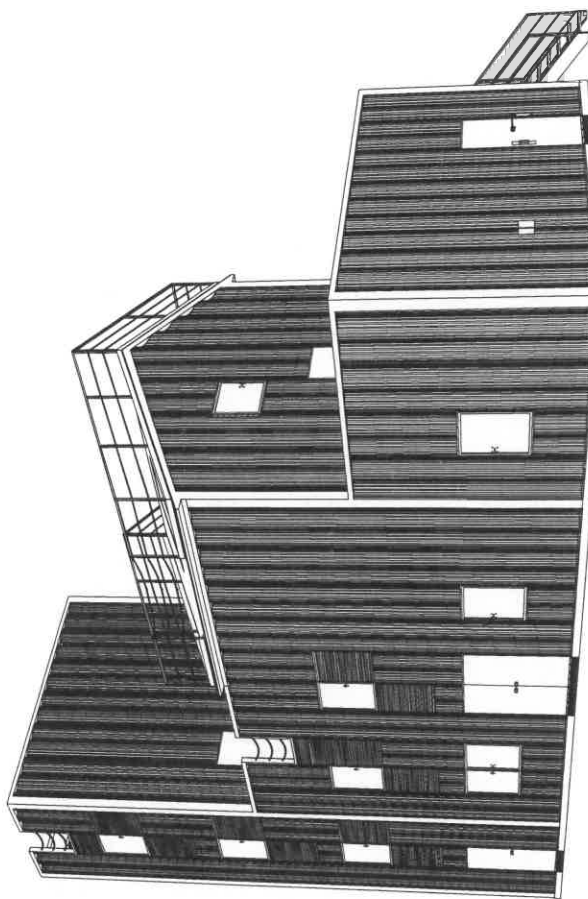
3.3 Adjusting and Cleaning

- A. Repair or replace damaged components.
- B. Contractor shall properly maintain the site, collect all waste material, place all debris and waste in containers and remove from the site.

Proposed Design, Pricing, and Procurement Options

Drawings

**CUSTOM FOURTH ALARM - FOUR STORY
GUILDERLAND FIRE DISTRICT**



**CUSTOM 4TH ALARM - FOUR STORY
FIRE TRAINING SIMULATOR**
GUILDERLAND FIRE DISTRICT TRAINING SIMULATOR



A DIV. OF JAHNKE AND SONS CONSTRUCTION, INC.
519 CUCK RO. GRANBYVIEW, MO 64020
TEL. 913-383-8883 info@jahnsconstruction.com
TOLL FREE 1-800-351-2529 www.trehingtover.com

COVER PAGE

PROJECT NUMBER: 02-11-0001	SECTION DATE:
PROJECT CHECKED:	
DATE:	05-22-21
DRAWN BY:	
DATE:	

GENERAL NOTES

- 1) THIS INFORMATION CONCORDS TO ALL APPLICABLE STANDARDS FOR FIRE TRAINING SIMULATORS AT THE TIME OF PREPARATION.
- 2) THE ERECTION CONTRACTOR ASSUMES RESPONSIBILITY FOR ALL MATERIALS, AT THE TIME OF DELIVERY. THIS CONTRACTOR IS ALSO RESPONSIBLE TO ACCOUNT FOR ALL MATERIAL, AT THE TIME OF DELIVERY, IF THERE IS A DISCREPANCY IN THE MATERIAL DELIVERED, CONTACT VFP TRAININGTOVERS IMMEDIATELY IN ORDER TO MAKE PROPER ARRANGEMENTS TO PROVIDE THE NECESSARY MATERIAL.
- 3) THIS SET OF DRAWINGS IS INTENDED AS A CONCEPTUAL SET, PROVIDED FOR SECONDARY REFERENCE ONLY. REFER TO BLENK INDUSTRIES CONSTRUCTION DRAWINGS AND THE MISCELLANEOUS METALS DRAWINGS AS PRIMARY REFERENCE FOR EXACT MATERIAL, DIMENSIONS, ERECTION, AND PROCEDURES.
- 4) THESE DRAWINGS, SPECIFICATIONS, IDEAS, REVISIONS, AND ARRANGEMENTS ARE AND SHALL REMAIN THE PROPERTY OF VFP TRAININGTOVERS AND NO PART THERE OF SHALL BE COPIED, REPRODUCED, OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT WRITTEN CONSENT FROM VFP TRAININGTOVERS.
- 5) WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. INSTALLING CONTRACTORS OR OWNERS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND VFP TRAININGTOVERS SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY. ANY CHANGES OR MODIFICATIONS TO EITHER THE STRUCTURE OR ADDITIVE COMPONENTS MUST BE RECORDED AND APPROVED BY VFP TRAININGTOVERS PRIOR TO PERFORMING ANY WORK.
- 6) MISCELLANEOUS FIELD CUTTING AND FITTING OF WITH STRUCTURE, AS WELL AS LIGHT GANSE FRAMING COMPONENTS WILL BE NECESSARY TO BE ABLE TO PERFORM THE INSTALLATION PROCEDURES REQUIRED AND WILL BE CONSIDERED AS A STANDARD CONDITION AND REQUIREMENT FOR ERECTION OF THIS LIVE FIRE TRAINING SIMULATOR AND ITS COMPONENTS.
- 7) DOORS SHALL BE PAINTED 1) GA STEEL REINFORCED WITH STEEL CHANNEL. EACH EXTERIOR NON-BURN ROOM DOOR SHALL BE PROVIDED WITH CD HEAVY-DUTY STAINLESS STEEL CONTINUOUS HINGE AND CD COMMERCIAL GRADE KEYS LOCKSET. EACH INTERIOR NON-BURN ROOM DOOR SHALL BE PROVIDED WITH CD HEAVY-DUTY STAINLESS STEEL CONTINUOUS HINGE AND CD COMMERCIAL GRADE KEYS LOCKSET. EACH BURN ROOM DOOR SHALL BE PROVIDED WITH CD HEAVY-DUTY STAINLESS STEEL CONTINUOUS HINGE AND CD COMMERCIAL GRADE KEYS LOCKSET. EACH FRAME DOOR OPENING THAT DID NOT SIT ON THE CONCRETE STEM WALL SHALL EXTEND 6" FROM THE BOTTOM OF DOOR SLAB TO GRADE AND BE PROVIDED WITH CD HEAVY-DUTY DOOR SWEEP. THE DOOR SWEEP SHALL HAVE CD HIGH-TEMP DOOR SWEEP INSTALLED ON THE OUTSVING SIDE OF THE DOOR TO COVER THE GAPS.
- 8) WINDOW CLOSURES SHALL BE PAINTED 12 GA HOT-DIPPED GALVANIZED SINGLE LEAVES WITH A 1" DEEP PAN FRAME. DESIGN EACH NON-BURN ROOM WINDOW CLOSURE SHALL BE HOT-DIPPED GALVANIZED SINGLE LEAVES WITH A STAINLESS STEEL CONTINUOUS HINGE, CD SLAM LATCH, CD KEYS LOCK SET AND CD HEAVY-DUTY STAINLESS STEEL CONTINUOUS HINGE. EACH WINDOW CLOSURE SHALL BE PROVIDED WITH CD HEAVY-DUTY STAINLESS STEEL CONTINUOUS HINGE, CD KEYS LOCK SET AND CD HEAVY-DUTY STAINLESS STEEL CONTINUOUS HINGE. EACH WINDOW CLOSURE SHALL BE PROVIDED WITH ONE OF THE ABOVE HINGE AND LATCH SETS AND SHALL INCLUDE SPACER/ADJUSTER MOUNTING CHANNELS. VELD ON THE INTERIOR SIDE OF THE CLOSURE. ALL CLOSURES SHALL BE INSTALLED WITH EQUAL ELEVATION.
- 9) FLOOR DECK ABOVE GYM SHALL BE CONCRETE OVER GALVANIZED 12" X 12" BECK FASTENED DIRECTLY TO LEVEL FLOOR JOISTS PER THE BLENK FLOOR DECK ABOVE GYM SHALL BE CONCRETE OVER GALVANIZED 12" X 12" BECK FASTENED DIRECTLY TO LEVEL FLOOR JOISTS PER THE ACCORDING TO THE BUILDING CONFIGURATION. CONCRETE FILL SHALL BE PROVIDED OVER THE "CHECK WITH MINIMUM 4" DEPTH AT THE INTERIOR AND EXTERIOR WALLS AND/OR BRANS. FINISH SHALL BE A SLIP RESISTANT FINISH. CONCRETE FILL OF BRANS.
- 10) ALL CORRUGATED WALL PANELS ARE TO BE PREFINISHED IN ONE OF 9 STANDARD COLORS. CORRUGATED WALL PANELS ARE 3'-5" HIGH AND 10'-0" WIDE. ALL CORRUGATED WALL PANELS SHALL BE 4" X 12 GA. ALL SIDES OF INTERIOR PARTITIONS NOT RECEIVING BURN ROOM PANELS SHALL RECEIVE 18 GA GALVANIZED SHEETING FASTENED WITH 8" X 5/8" LOW PROFILE TEE SCREWS AT 32" OC.

DESIGN LOADS

- ROOF LOAD --- 100 PSF
- FLOOR LOAD --- 100 PSF
- ATTIC LOAD --- 100 PSF
- WIND EXPOSURE --- 15 MPH

MARK	WINDOW PARTED WINDOW PACKAGES												
	DESCRIPTION	WINDOW SHUTTER 50"X40"	LOCKING WINDOW SHUTTER 50"X40"	NON-LOCKING WINDOW SHUTTER 50"X40"	NON-LOCKING WINDOW SHUTTER 50"X40"	NON-LOCKING WINDOW SHUTTER 50"X40"	NON-LOCKING WINDOW SHUTTER 50"X40"	NON-LOCKING WINDOW SHUTTER 50"X40"	NON-LOCKING WINDOW SHUTTER 50"X40"	NON-LOCKING WINDOW SHUTTER 50"X40"	NON-LOCKING WINDOW SHUTTER 50"X40"	NON-LOCKING WINDOW SHUTTER 50"X40"	NON-LOCKING WINDOW SHUTTER 50"X40"
W1	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
W2	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
W3	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
W4	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
W5	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
W6	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1

MARK	DOOR HARDWARE PACKAGES												
	DESCRIPTION	ROUGH DOOR SHUTTER 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"
D1	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
D2	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
D3	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
D4	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
D5	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
D6	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
D7	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
D8	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1

MARK	LATCH AND LOCK SETS												
	DESCRIPTION	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"
L1	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
L2	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
L3	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
L4	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
L5	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
L6	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
L7	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
L8	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1

MARK	THERMAL LING PANELS												
	DESCRIPTION	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"	DOOR SWEEP 50"X40"
T1	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
T2	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
T3	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
T4	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
T5	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
T6	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
T7	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1
T8	1200 X 1000	1	1	1	1	1	1	1	1	1	1	1	1

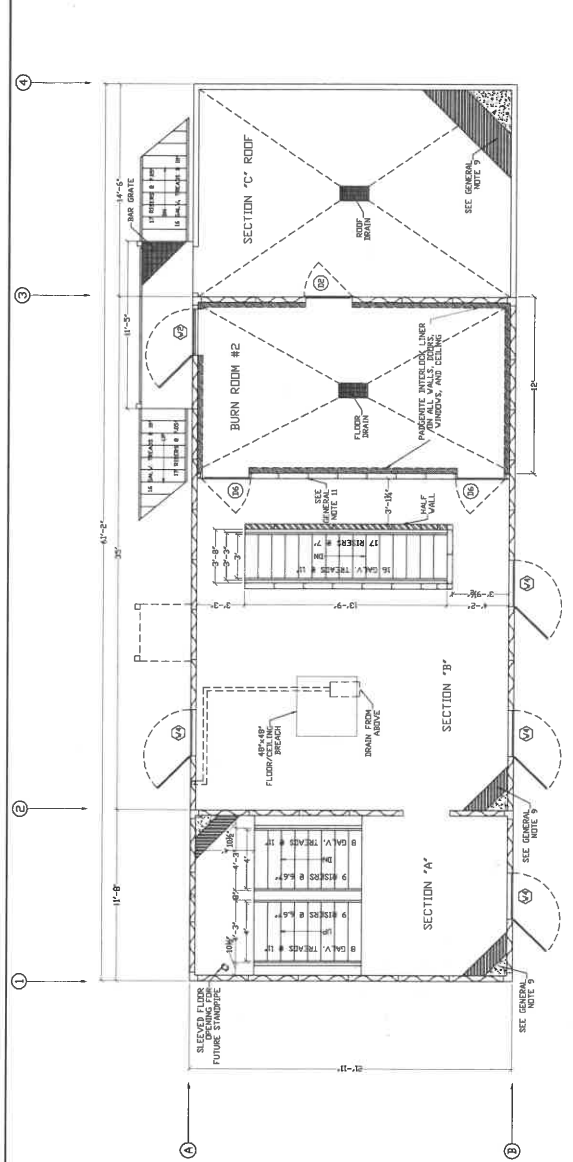
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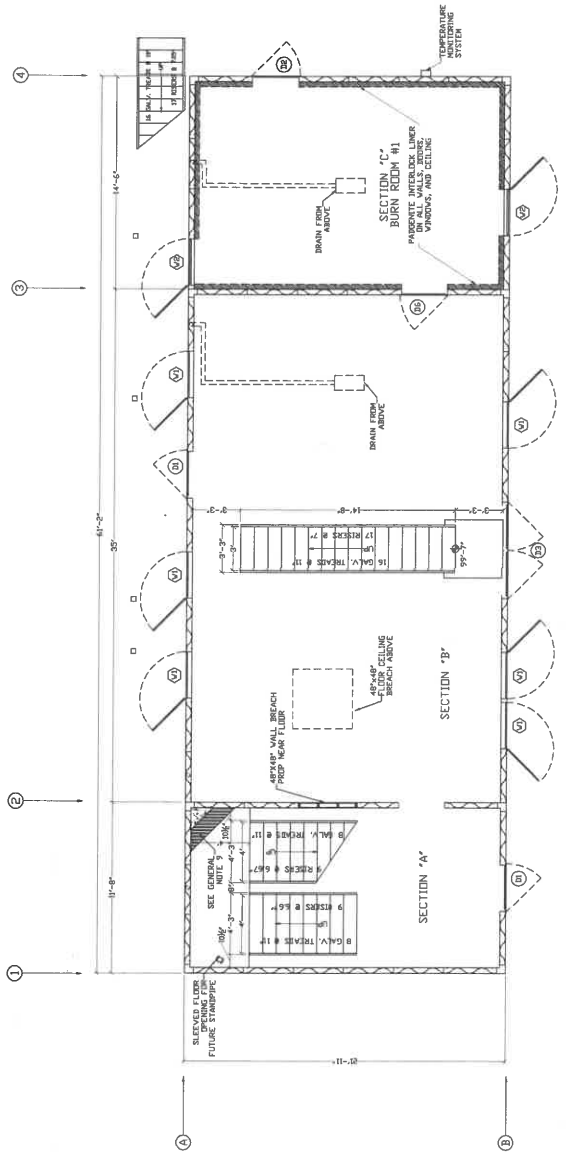
GUILDFORD FIRE DISTRICT TRAINING SIMULATOR
CUSTOM 4TH ALARM - FOUR STORY
FIRE TRAINING SIMULATOR

PROJECT NUMBER	02-W-001	REVISION DATES
PROJECT LOCATION		
PROJECT SIZE		
DATE	2-23-23	
DESIGNER		
DRWING DATE		

FIRST FLOOR AND SECOND FLOOR PLANS



TOWER AND RESIDENTIAL 2ND FLOOR PLAN AND ANNEX ROOF PLAN
 SCALE: 1/4" = 1'-0"

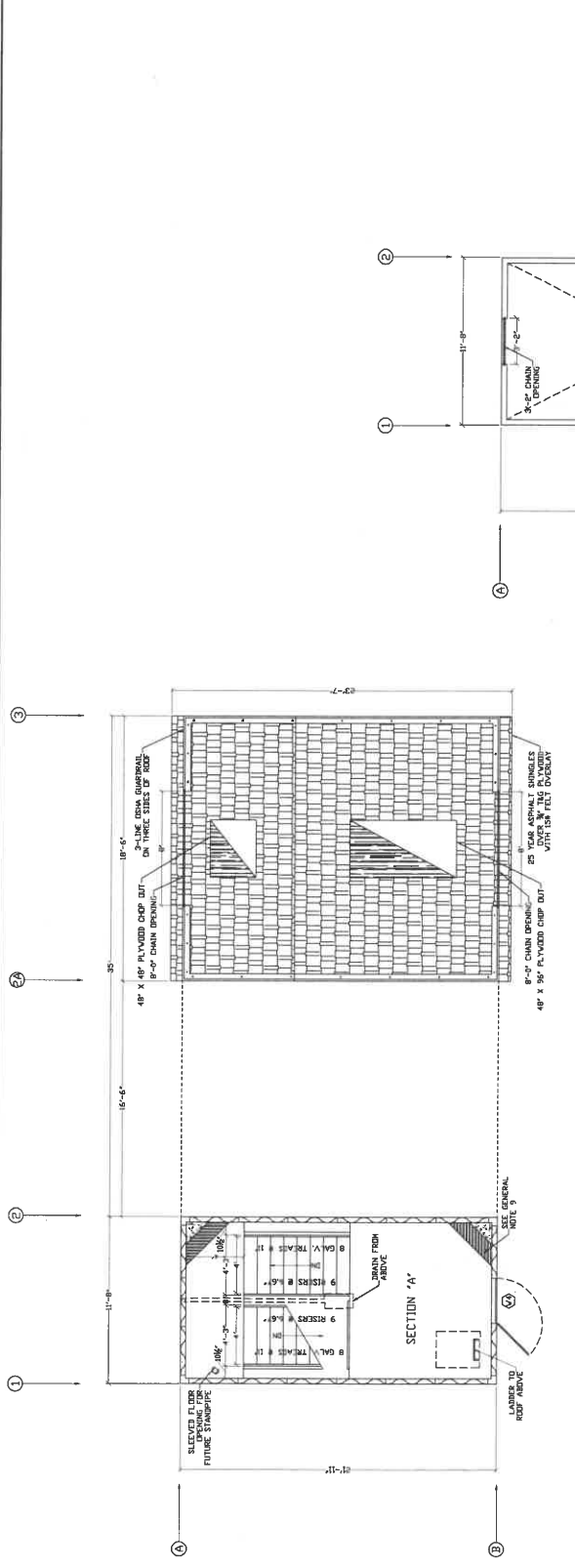


TOWER, RESIDENTIAL, AND ANNEX 1ST FLOOR PLAN
 SCALE: 1/4" = 1'-0"

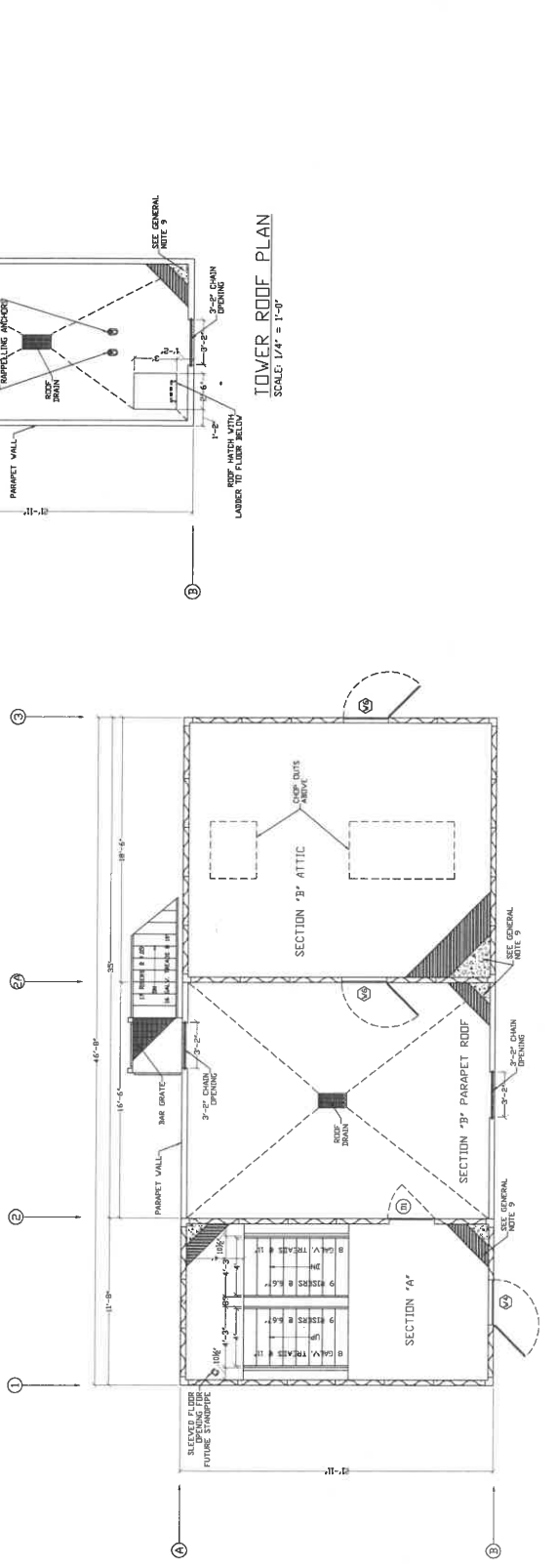
**CUSTOM 4TH ALARM - FOUR STORY
 FIRE TRAINING SIMULATOR**
 GUILDERLAND FIRE DISTRICT TRAINING SIMULATOR

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES.

PROJECT NUMBER:	02-18-001	PERSON NAME:	
PROJECT FLOOR:			
DATE:	05-25-2018		
DESIGNER:			
DRAMA:			
DATE:			
PROJECT FLOOR:			
DATE:			



TOWER 4TH FLOOR PLAN AND RESIDENTIAL ROOF PLAN
 SCALE: 1/4" = 1'-0"



TOWER 3RD FLOOR PLAN AND RESIDENTIAL ATTIC PLAN
 SCALE: 1/4" = 1'-0"

**TOWER 3RD FLOOR, FOURTH FLOOR,
 AND TOWER ROOF PLANS**

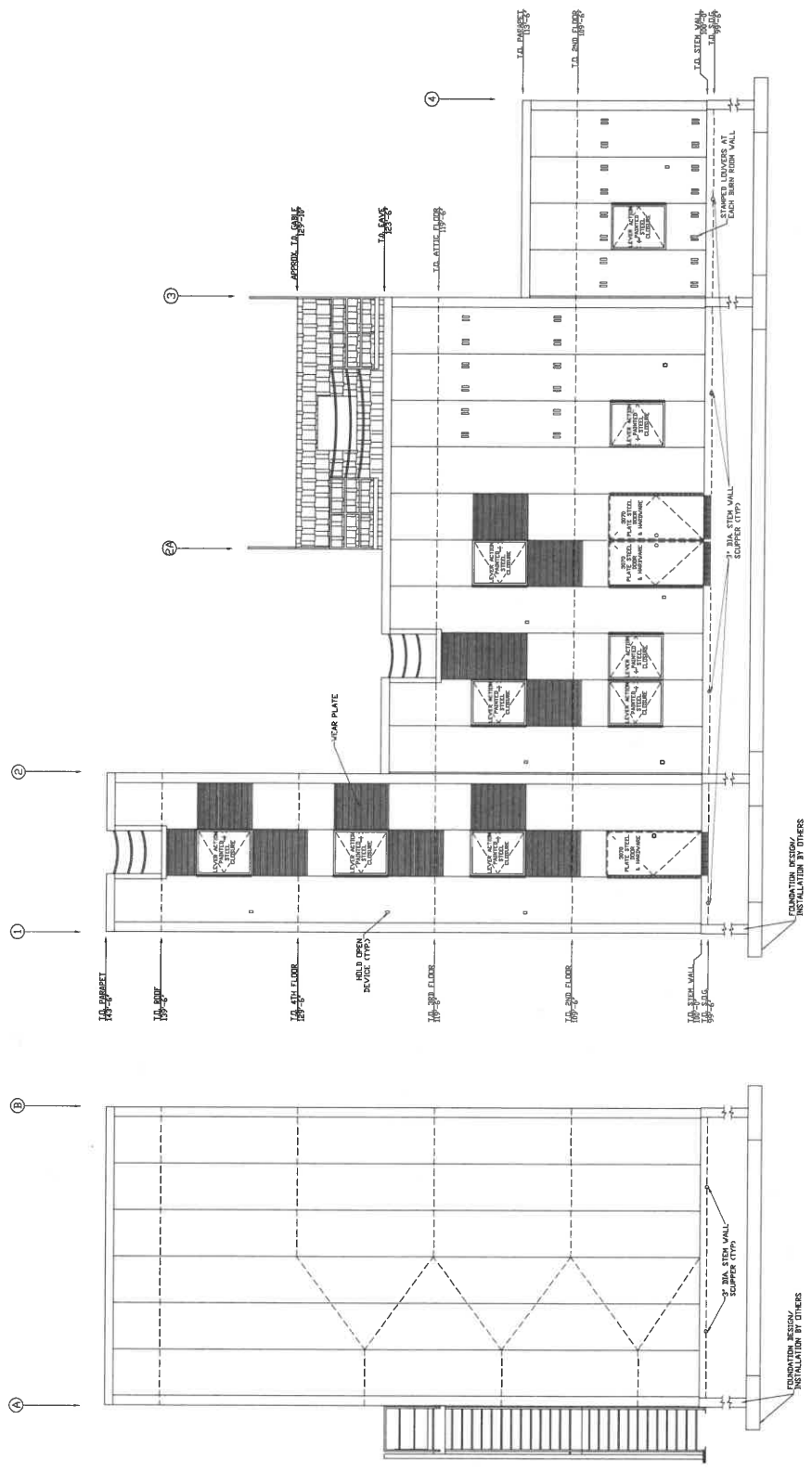
ELEVATIONS
A-SIDE AND B-SIDE

PROJECT NUMBER:	00-M-0001	REVISION DATE:
PROJECT DIRECTOR:		
DESIGNER:		
DATE:		

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**CUSTOM 4TH ALARM - FOUR STORY
FIRE TRAINING SIMULATOR**
GUILDFORD FIRE DISTRICT TRAINING SIMULATOR

A DIV. OF JAHNKE AND SONS CONSTRUCTION, INC.
MHP
919 DUCK RD GRANOVEN, MO 64030
TEL: 913-363-2683 info@mhplowr.com
www.mhplowr.com
TOLL FREE: 1-800-251-2225



A-SIDE ELEVATION
SCALE: 1/4" = 1'-0"

B-SIDE ELEVATION
SCALE: 1/4" = 1'-0"

ELEVATIONS
C-SIDE AND D-SIDE

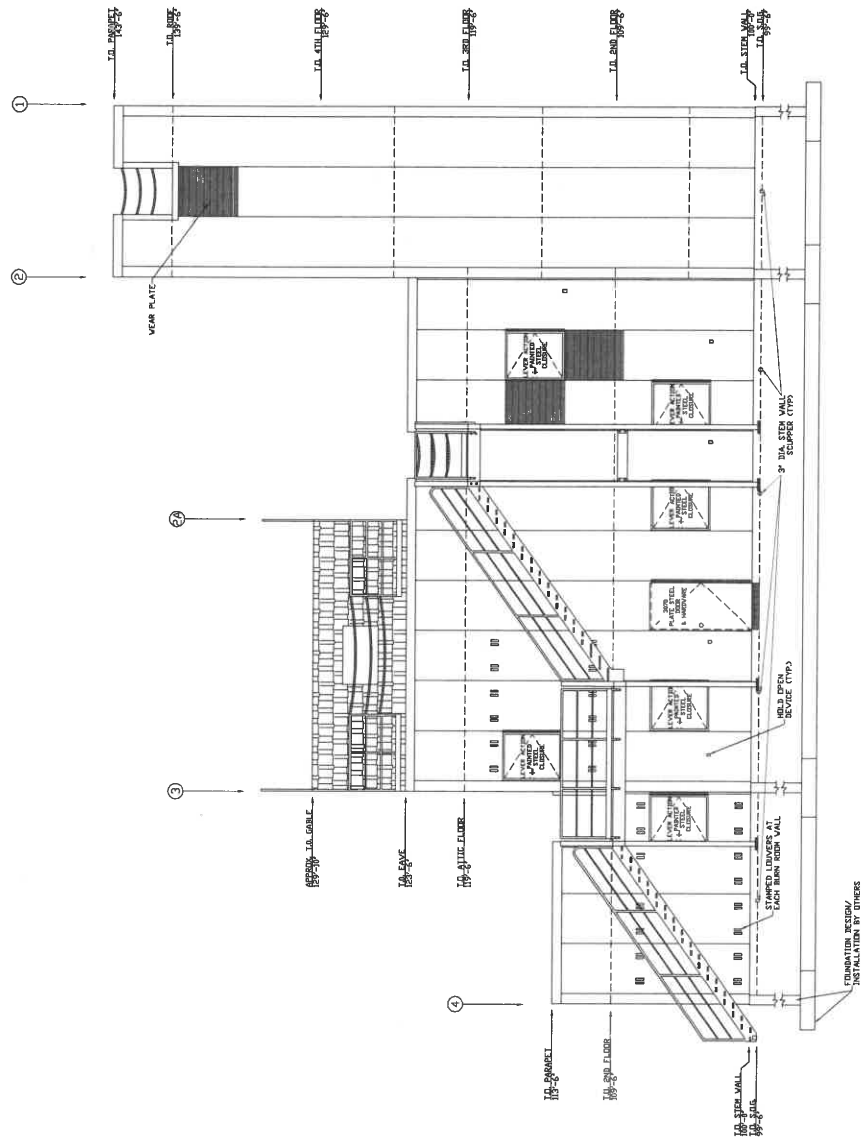
PROJECT NUMBER:	00-H-000	PERSON DATE:
PROJECT DIRECTOR:	KJM	
DESIGNER:	AK	
DRAWN BY:	AK	
DATE:	11-15-11	

**CUSTOM 4TH ALARM - FOUR STORY
FIRE TRAINING SIMULATOR**
GUILDFORD FIRE DISTRICT TRAINING SIMULATOR

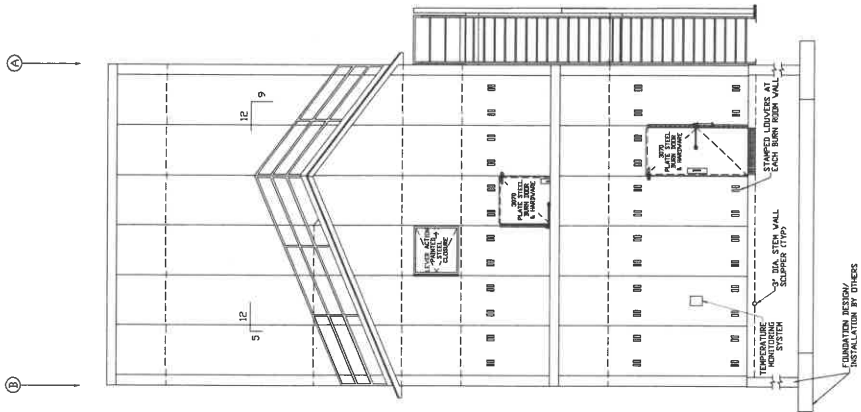
A DIV. OF JAHRIE AND SONS CONSTRUCTION, INC.
919 QUACK RD GRANDVIEW, MD 64200
TEL. 913-383-3843 info@jahriehousing.com
TOLL FREE 1-800-351-2525 www.tjahriehousing.com



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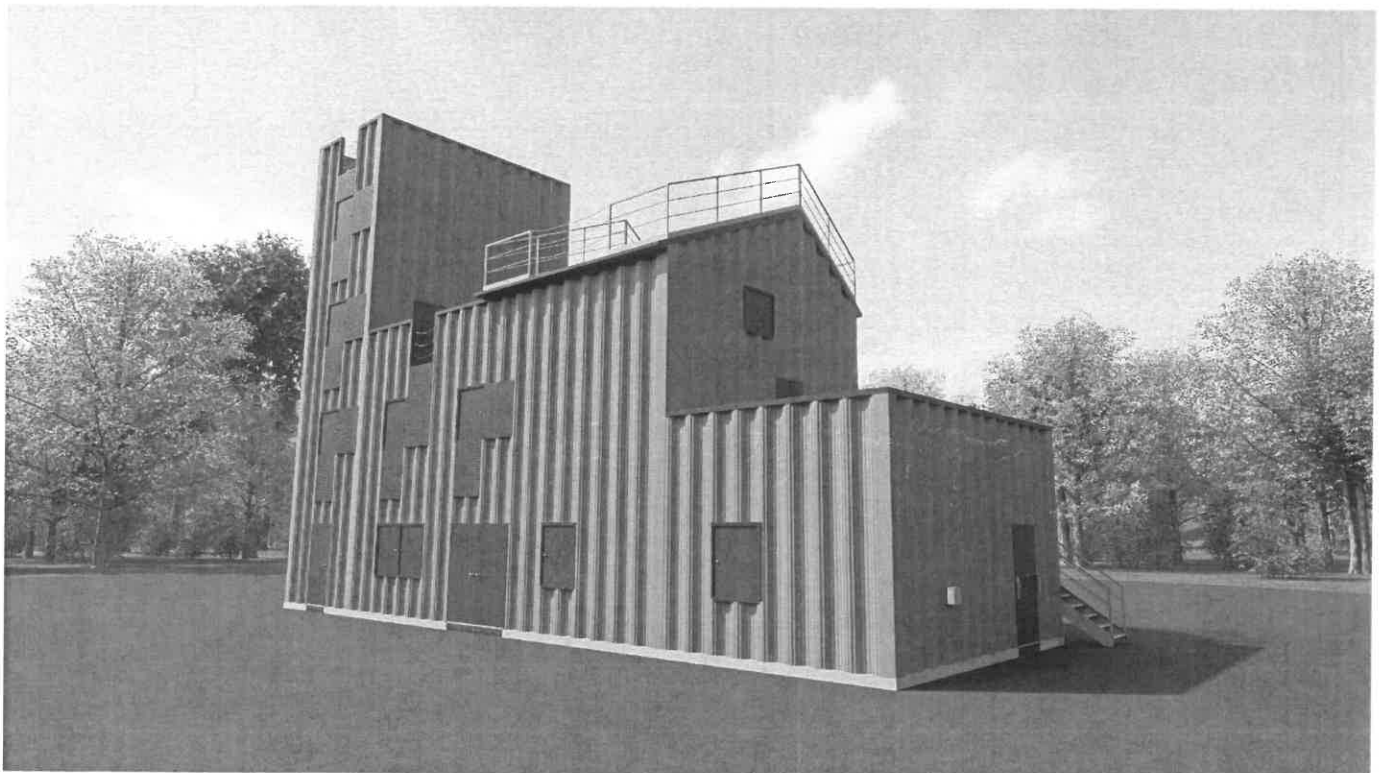
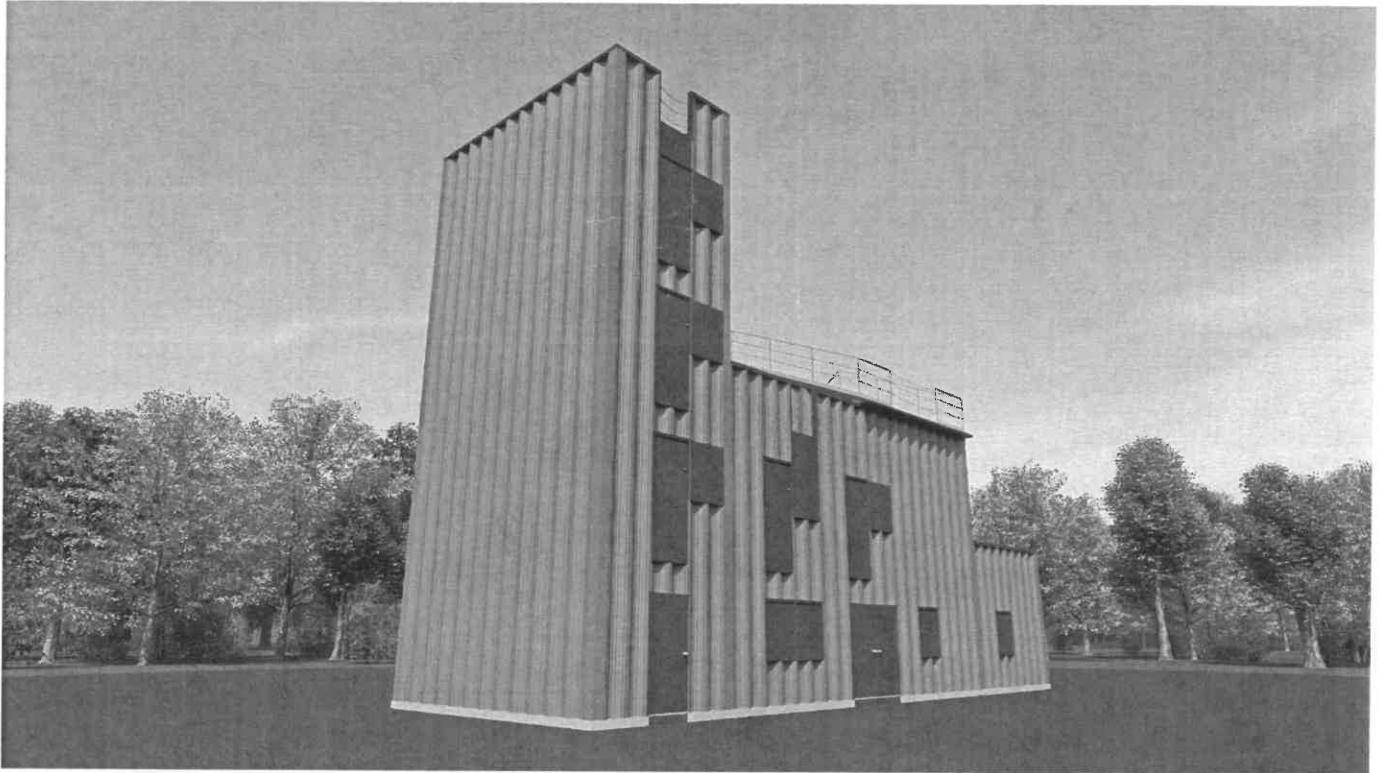


C-SIDE ELEVATION
SCALE: 1/4" = 1'-0"

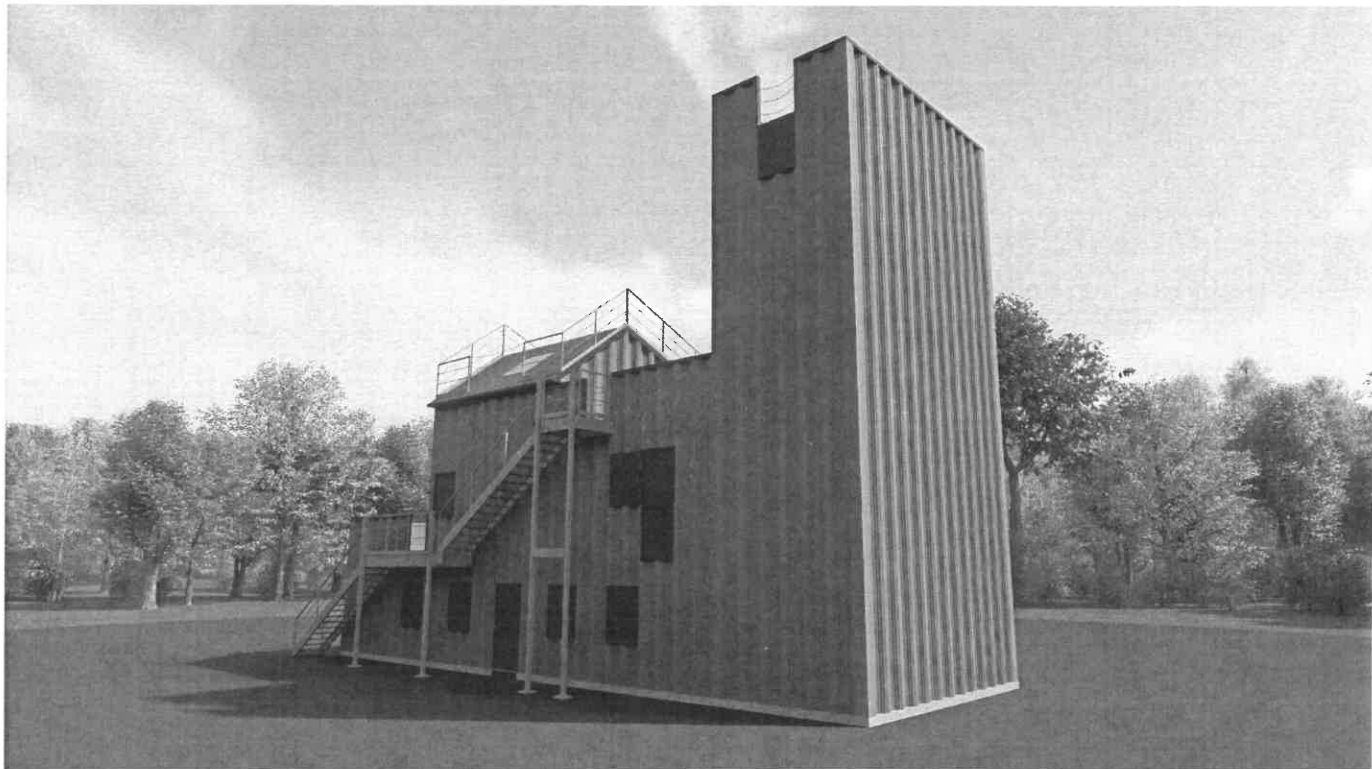


D-SIDE ELEVATION
SCALE: 1/4" = 1'-0"

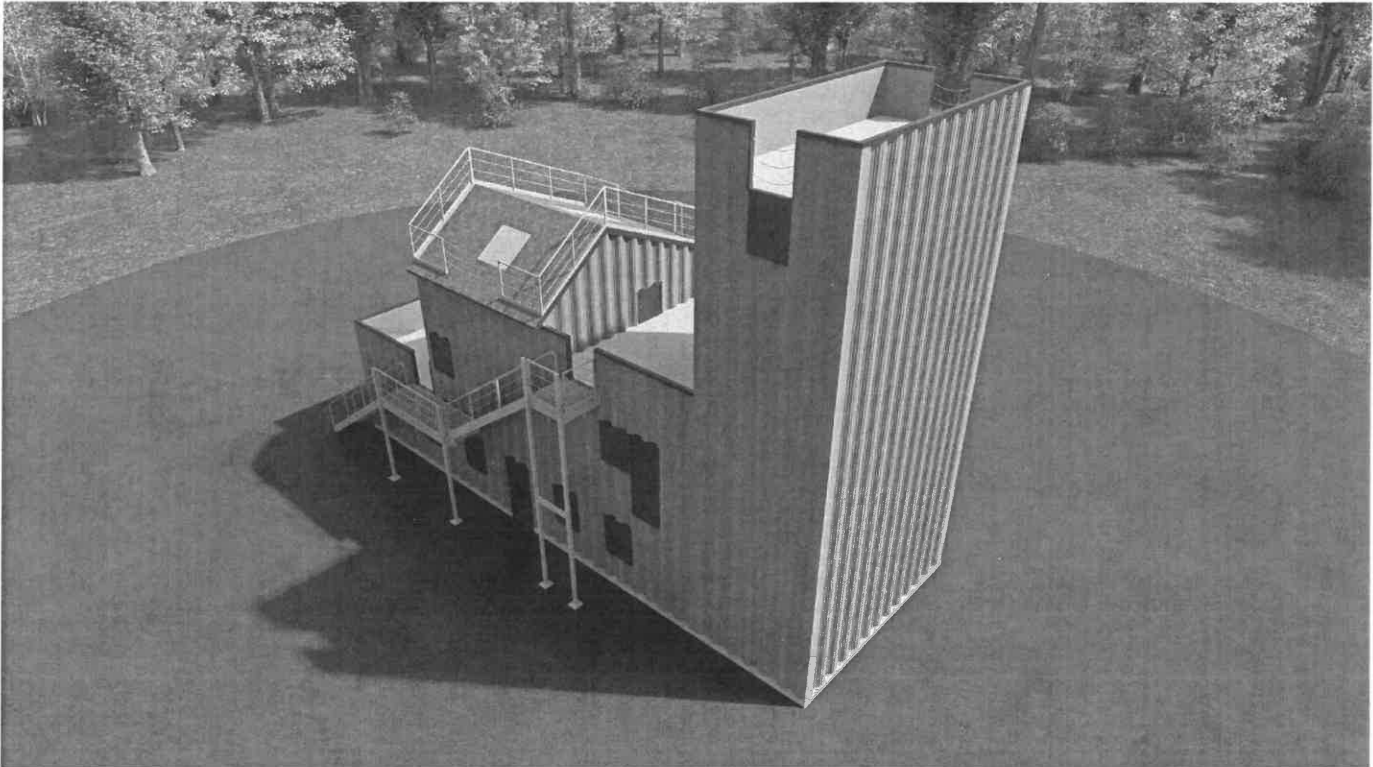
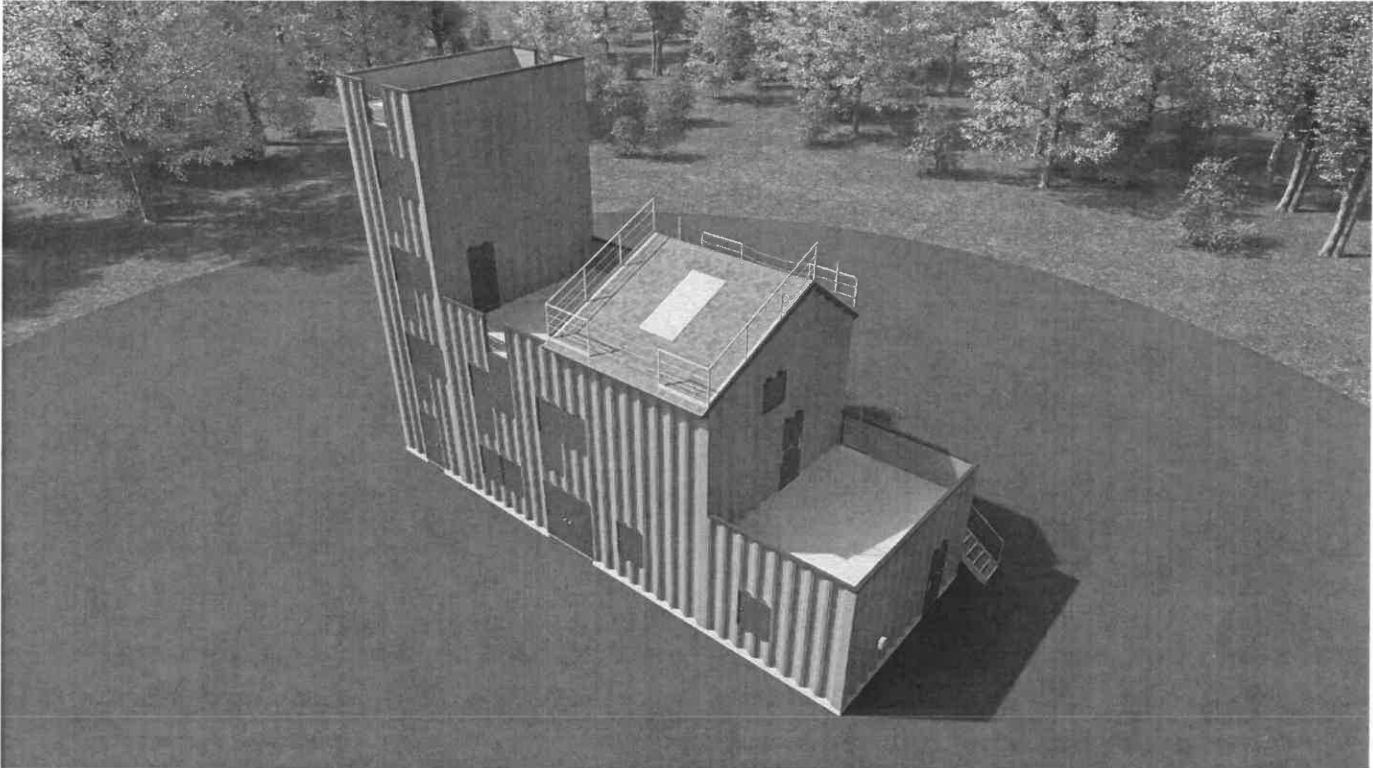
Renderings



Renderings



Renderings



Project Specific Pricing

August 25th, 2023

Ref Number: Q-2318122 (via email)

Mr. David Messercola, District Administrator
 Guilderland Fire District
 2303 Western Ave.
 Guilderland, NY 12084

dmessercola@guilderlandfire.com

**Re: WHP Trainingtowers™ Sourcewell Contract Number 011822-JHK
 City of Guilderland Sourcewell Agency Number 125836
 Fire Training Tower**

Dear Mr. Messercola,

We are pleased to provide you with the following Sourcewell quote for a **CUSTOM 4th ALARM FOUR-STORY WHP** training simulator utilizing WHP contract number 011822-JHK and the City of Guilderland member number 125836. The simulator would consist of a structure that would approximate the following:

1. Section A will be a **Four-Story Tower** approximately 21'-11" W x 11'-8" L x 44'-0" H (to top of parapet).
 - a. Three (3) interior floors (2nd, 3rd, 4th)
 - b. One (1) flat roof with parapet roof guard system
 - c. Two (2) 3'-0" chain gates, one (1) on each 11'-8" face of the tower
 - d. Four (4) rappelling anchors on the roof
 - e. One (1) 2'-6" x 3'-0" Bilco roof hatch
 - f. One (1) vertical ladder from the 4th floor up to the roof hatch
 - g. One (1) four-story interior intermediate landing stair with welded stair railing
 - h. Two (2) 3' x 7' exterior plate steel doors and hardware
 - i. Three (3) 3' x 4' window openings with latching shutters and hold open devices
 - j. One (1) additional opening into the Residential on the 1st floor
 - k. Sleeved floor openings for a future standpipe
2. Section B will be a **Two-Story Residential/Industrial** section approximately 21'-11" W x 35'-0" L x 24'-0" H.
 - a. One (1) Roof - ½ gable roof, 5/12 and 9/12 un-equal pitch with perimeter welded guardrail and ½ flat roof with parapet roof guard system
 - b. Two (2) 8'-0" chain gates, one (1) on each face of the residential/industrial gabled roof
 - c. One (1) 3'-0" chain gate on the parapet roof
 - d. Two (2) chop outs on gabled roof, one (1) 48" x 48" chop out and one (1) 48" x 96" chop out
 - e. One (1) attic space provided between the gabled roof and the second floor
 - f. One (1) 3' x 3' framed window opening with latching shutter at exterior gabled end of the attic
 - g. One (1) 3' x 3' access hatch to residential attic
 - h. Seven (7) 3' x 4' framed window openings with latching shutters and hold open devices
 - i. One (1) 3' x 4' framed burn room window openings with latching shutters

- j. One (1) 6' x 4' double window with latching shutters and hold-open devices
 - k. One (1) 6' x 7' exterior plate steel door and hardware
 - l. Two (2) 3' x 7' exterior plate steel door and hardware
 - m. Three (3) interior 3' x 7' burn room plate steel door and hardware
 - n. One (1) exterior 3' x 7' burn room plate steel door and hardware
 - o. One (1) two-story interior stair with welded stair railing, half-wall at second floor on burn room side
 - p. One (1) 3-story Exterior IBC stair to Annex roof that extends to the Residential parapet roof
 - q. One (1) floor/ceiling breaching prop
 - r. One (1) breaching wall prop
 - s. One (1) 12' x 22' burn room - entire room shall be protected with a Padgenite Interlock™ liner system
 - t. protected with a Padgenite Interlock™ liner system
3. Section C will be a **One-Story Annex** approximately 21'-11" W x 14'-6" L x 10'-0" H.
- a. Working parapet roof
 - b. Two (2) 3' x 4' framed burn room window openings with latching shutters
 - c. One (1) 3' x 7' exterior burn room plate steel door and hardware
 - d. Entire room shall be protected with a Padgenite Interlock™ liner system
 - e. One (1) temperature monitoring system

Sourcewell Pricing

Materials:	\$424,438.20
Freight:	\$53,964.75
Setup Fee:	\$341,479.40
Total:	\$819,882.35

10% Off Materials, 5% off Freight and Set Up Fee

Bonds and taxes have been excluded from this proposal. If any need to be included, please advise and the proposal will be updated to provide the changes.

Prevailing Wages: Prevailing wages have been included based on General Decision Number: NY20230002 6/30/2023 for Albany County New York. If the General Decision is updated or a job specific wage determination is performed wages will be adjusted accordingly and be the responsibility of the owner. **The source used by WHP to determine the prevailing wages is Sam.gov.**

Additional Optional items you might consider are as follows:

Foundation Design	\$4,750.00
Foundation	\$115,277.00
Slab on Grade (includes piers and pad for exterior stairs)	\$23,410.00
Slab on Deck	\$61,288.00

The price for the foundation design is based on an owner provided soils report specific to the site where the building will be erected. The design of the foundation will be based on the local design criteria.

All pricing is in US Dollars and is valid for 30 days. It is the policy of WHP Trainingtowers™ to provide a reasonable cost estimate for your budgeting purposes. It is not uncommon in the construction industry to offer cost estimates that are for low end or stripped-down structures. WHP believes the cost estimate should reflect a training simulator that meets OSHA safety requirements, is of the highest quality, and will meet the expectations of the customer.

Schedule: We would require 2-4 weeks to prepare conceptual drawings after award of the contract or purchase order and 18-20 weeks for delivery after receipt of approved drawings. If the foundation is in place the erection would be complete approximately 10-12 weeks after delivery of building. Some optional items such as brick exteriors will require more time to complete erection.

Design Criteria: Pricing is based on the following structural design criteria per IBC 2012:

1. *Live Loads-* (a) Roof: 100 psf (b) Floor: 100 psf (c) Attic: 100 psf
2. *Wind Loads-* (a) Speed: 90 mph (b) Exposure: C
3. *Seismic Loads-* (a) Coefficient S_s [max]: 55 (b) Coefficient S₁ [max]: 13
4. *Soil Capacity-* Minimum 1500 lbs/sq.ft.

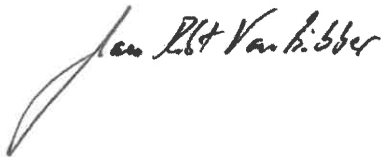
*Requirements exceeding these loads may result in additional costs.

Exclusions: We exclude from our proposal: bonds, taxes, permits, special insurance requirements if any, field painting of exterior handrails and stairs, mechanical, electrical, fire protection systems, gas fired simulators, winter conditions, site work, foundation, slab on grade, slab on decking, anchor bolts, excavation, engineering layout and general condition items and any other miscellaneous fees.

Terms: For materials a deposit of 25% on the building package is due on receipt of order (signing of contract). Balance of payment on materials due on delivery to site. No retention on materials. Labor will be billed monthly. Invoices not in dispute over 30 days will be assessed 1 ½ % per month on balances in excess of 30 days. Financing is available through lease purchase programs.

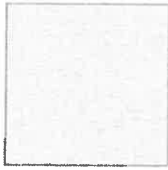
We hope you find the proposal acceptable. If we can provide you with further information, please feel free to call.

Sincerely,

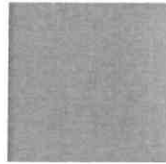


Capt. Rob Van Bibber (Ret.)
WHP Trainingtowers™

Wall/Corner Panel Color Chart



Polar White



Stone Grey



Dark Red



Bone White



Bronze



Melcher's Green



Antique Linen



Charcoal

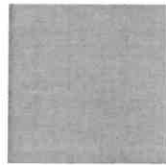


Heron Blue

Trim Color Chart



Polar White



Stone Grey



Dark Red



Slate Blue



Bone White



Bronze



Melcher's Green



Regent Grey



Antique Linen



Charcoal



Heron Blue

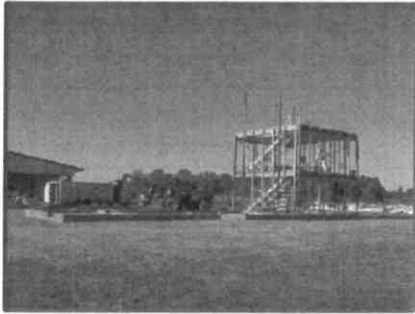


Black

WHP Alarm Series Advantages (Pre-engineered)

WHP Alarm Series Features and Advantages

DESIGNED AND BUILT EXCLUSIVELY FOR FIRE TRAINING



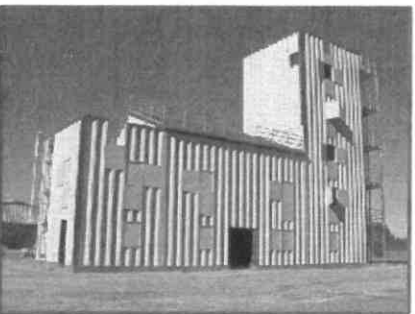
Over 40 years of experience have made Behlen Industries synonymous with "quality" and "leadership" in the steel building industry. One of the key elements to Behlen's success is the durable, functional and low maintenance CORR-SPAN® Building System.



Behlen's CORR-SPAN® Building System was first introduced in 1949, and subsequently modified and improved as the result of continuous assessment. The resulting CORR-SPAN® concept remains unique in the industry today. The support strength of a CORR-SPAN® panel can equal that of a steel girder of the same length and weight. The strength lies in the "compound" corrugation process which roll-forms sheet steel into for and a half inch deep corrugations, embedded with a series of smaller corrugations. These small corrugations enhance the strength achieved with the larger corrugation. Because of the resulting load bearing shell, interior support is not required, allowing for maximum use of the building's workspace. This exclusive building system is the basis for WHP's Fire Training Towers.

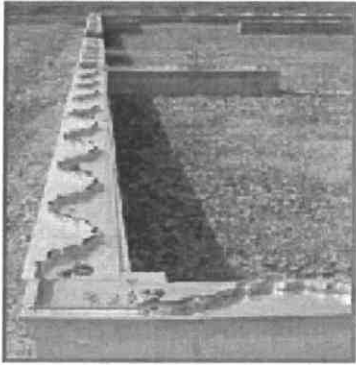


In 1980, WHP Trainingtowers' founder, Bernard Padgett, was asked to design a pre-engineered steel structure for fire training. After researching the market, he chose the CORR-SPAN® Building System. WHP recognized that the fire services' demands on the building system would greatly exceed those of "normal" usage. They worked with Behlen to engineer a rugged building specifically for heavy-duty fire training. This was accomplished by engineering a secondary framing system. Over 28 years as the industry leader have proven the wisdom of Mr. Padgett's choice.



WHP has taken the best and the strongest from several sources to provide you the most rugged training building on the market.

**WHP IS THE EXCLUSIVE PROVIDER OF
THIS BUILDING SYSTEM FOR CUSTOMIZED
FIRE SERVICE APPLICATIONS**

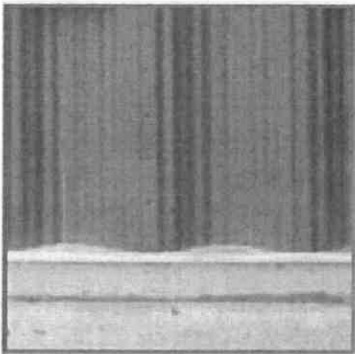


DESIGNED AND BUILT EXCLUSIVELY FOR FIRE TRAINING

THE REAL TEST ISN'T HOW THE BUILDING PERFORMS AFTER ONE YEAR, IT'S HOW IT PERFORMS AFTER 15, 20 OR 30 YEARS.

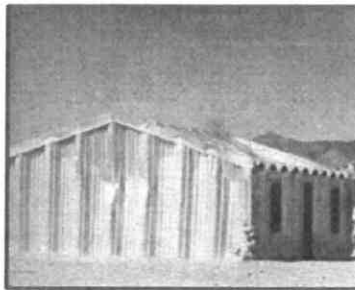
CORR-SPAN® PANEL

- The entire system is manufactured from heavy gauge engineered panels with an exclusive compound corrugation process that provides the structural integrity and linear loading.
- 41" wide panels are bolted to 12 gauge cee's at 6" intervals with 3/8" plated bolts using pre-drilled holes.
- Sealer tape on all seams combined with bolting action provides a weather tight system.
- Wall panels are manufactured with 4 1/2" corrugations in hot-dipped galvanized steel available in 13 powder coat colors.



July 1955

HOW STRONG IS THE BEHLEN SYSTEM?



BEHLEN FRAMELESS BUILDING

In 1955 the Atomic Energy Commission and Department of Defense built a "Nuclear City" at Yucca Flats, AZ to test the survivability of building structures in a nuclear attack. The Behlen Frameless building was one of three building types selected to represent pre-engineered structures. It was the only steel structure in the "city" to survive the 30-kiloton nuclear explosion. The building was preserved and still stands in Columbus, NE on the grounds of the Behlen Corporate Offices.

Appendix

Resumes



EDUCATION/AFFILIATIONS

B.S., Mechanical Technology
University of Pittsburg

B.S., Fire and Safety Engr.
Summa Cum Laude
University of Cincinnati

Graduate Executive Fire Officer
Program United States Fire
Academy

Fellowship Recipient Kennedy
School of Government Harvard
University

National Fire Protection Assoc.

National Fire Code Advisory
Board, Urban Search and
Rescue, Standards Committee

International Assoc. of F.C.
Board of Directors

Steering Committee for Urban
Search and Rescue, National
Codes Task Force, Chairman,
FEMA Steering Committee for
USAR Training

Executive Fire Officer Assoc.

Fire Equipment Manufactures
and Supplier Association

TEAM IDENTIFICATION

WILLIAM M. JAHNKE, PRESIDENT

President of a general construction firm who specializes in construction of fire training facilities for local, state, federal government and institutions Provide consulting with owners, engineers and architects for planning and design of new and rehabilitated fire training facilities. Provides and facilitate in the programming for training complexes, development of the simulator structures, gas fuel fired simulator props and assist in identifying the best type of construction, systems and facilities to meet the needs of the owner and meet their budget needs. Provided over all supervision of estimating department, contract administration, field supervision of erection crews and warranty issues for turn-key construction projects.

EXPERIENCE HIGHLIGHTS

Have managed the construction of over 600 fire training facilities since purchasing the company in 1998. Project includes high rise, residential, commercial, aviation and marine training structures. Have developed several enhancements to the training structures in order to provide increased realism and safety in the training environment. To create a realistic and safe training environment

Fire Chief of 130-member department serving the second largest city in Kansas. Started career with the department as a volunteer and completed 17 years of service when promoted to full time Fire Chief. Managed fire protection, EMS and Code enforcement activities of the department with an 11.2-million-dollar budget. Retired after 11 years as Chief

Construction Manager for 5.9-million-dollar design/build fire training facility including classroom building, maintenance facility and five story training tower/building and gas fired simulators complex for the City of Overland Park, Kansas. Supervised design team, provided estimating and bidding of subcontractors and construction management.

Construction Manager- commercial developer of high-rise office, retail and warehouse properties. Supervised the design and construction of over 1.9 million square feet of property. Projects included high-rise mixed-use complex, Office park with 6 buildings, and shopping center with 500,000 square feet of retail space.



TEAM IDENTIFICATION

JOE KIRCHNER, Executive Vice President of Operations

Director of Operations, Joe Kirchner has managed over 700 training tower projects for Fire Departments & Fire Districts, Military Fire Departments and Higher Education Institutions. His career spans 20 years at Jahnke & Sons Construction, Inc. d/b/a WHP Trainingtowers, where he has been integrally involved in the successful completion of Structural Fire Training Buildings, Maritime Training Simulators and a premier Hazmat Training Facility. Joe has been at the forefront of many of the innovative products developed and works closely with our partners to value engineer the best solution for the Customer. Joe is a graduate of Kansas State University with a degree in Construction Management.

As Director of Operations, Joe oversees the team responsible for bringing the Projects within budget and on-time and ultimately a satisfied customer. His team is responsible for:

- Producing submittals, shop drawings, and specifications for the Owner/Architect
- Reviewing and approving shop drawings for all components of the building system
- Managing several projects with concurring construction schedules
- Providing material take-off for project site delivery
- Providing applicable permitting coordination
- Providing Crew Management with emphasis on safety
- Managing several projects with concurring construction schedules
- Designing customized building for the needs of each individual client
- Estimating costs for bids and material ordering

EDUCATION

Bachelors of Science
Construction Science
and Management
Kansas State University

AFFILIATIONS

Licensed General Contractor
Kansas
Idaho
West Virginia
Louisiana
North Carolina

NASCLA

PAST EXPERIENCE HIGHLIGHTS

Assistant Project Manager and Field Engineer for the second largest construction firm in the Kansas City area. Worked on projects ranging from \$150,000 to \$10 million.

Hands-on experience as an Assistant Field Superintendent and Apprenticeship in the Sheet Metal Union. Provided fabrication skills for specialty items in the shop and installed products on various building in the Midwest.

Rappelling Anchor Certification



ACTEK® MFG. & ENG., INC.

1110 Fullerton Road
City of Industry, CA 91748

CERTIFICATE OF CONFORMANCE

Part Number	Thread Size	Rated Load (Lbs./Kgs.)	Safety Factor	Description	Serial Number
AK56014-WHP-COIL	3/4"-4.5 E=4"	5,000 Lbs	5 : 1	Forged Swivel Hoist Ring	AK23E2490

CE

200% Proof Load Tested

W/NUT AND WASHER

Material: Alloy Chrome Moly
Finish: Galvanized
Magnetic Particle Inspected-I-6868 Mil Std 271&1949
ASTM E-1444 & E-709
Certified Heat Treat-Mil H 6875 Rev. "H"

Meets or Exceeds the requirements of ASME B30.26 and AS 2318-2006
I hereby certify the parts shipped on your purchase order were manufactured in accordance with the manufacturer's drawing and specifications.

Attested to by Supplier's Quality Manager: _____

Letters of Recommendation

Rogers Fire Department

201 N 1st Street • Rogers, AR 72756 • Office (479) 621-1179 • Fax (479) 621-1108



April 7, 2020

To Whom It May Concern:

One of the most challenging aspects of leading public safety organizations is finding companies that understand the criticality of our training and the safety of our firefighters. As a department that has attained accredited status through both the Commission on Accreditation of Ambulance Services (CAAS) and the Center for Public Safety Excellence (CPSE), we pride ourselves on adopting industry "best practices" to take care of our 140+ career firefighters and support staff. Our training center, originally constructed in 1997, is a vital piece of the city's public safety capability. As part of a 2018 Bond Issue package, passed overwhelming by our voters, we built a multi-story and multi-purpose burn building on the campus to allow our firefighters to enjoy state-of-the-art training. Without hesitation or regret, we selected WHP Training Towers for the project.

While you'd expect to have some minor issues with such a project of this scale and complexity, our experience with WHP has been characteristically different. The company is progressive and responsive to the needs of the industry and the individual department alike. They've worked with us to save cost (when necessary) and helped us outfit the building to meet best practices and local need. It is my experience that the company has a genuine interest in firefighters and possess a strong work ethic in their field of expertise. My experience with the support and service from WHP is by far the best of the various companies I have to deal with as Fire Chief. It should come as no surprise, since the fire service is part of their DNA.

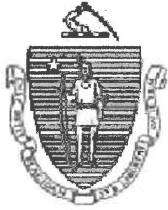
As Fire Chief, I believe in companies that follow industry needs and best practice, but still hone their skills at serving the individual need of the customer. WHP Training Towers is a fine example of that concept. Unfortunately, it is indeed rare to find companies that have a passion to work with their customers and solve their problems in a timely manner. I remain appreciative and impressed by their continued commitment to our department, long after the sale.

Should you require any additional information, please feel free to call me at (479) 621-1179.

Best Regards,

A handwritten signature in black ink that reads "Tom Jenkins".

Tom C. Jenkins, Fire Chief



CHARLES D. BAKER
GOVERNOR

KARYN E. POLITO
LT. GOVERNOR

THOMAS A. TURCO, III
SECRETARY

The Commonwealth of Massachusetts
Executive Office of Public Safety and
Security

Department of Fire Services

P.O. Box 1025 ~State Road

Stow, Massachusetts 01775

(978) 567~3100 Fax: (978) 567~3121



PETER J. OSTROSKY
STATE FIRE MARSHAL

Letter of Recommendation

To Whom It May Concern,

I am writing to recommend Mr. Joe Kirchner and his company WHP Training Towers for additional construction services with future prospective clients. I have had the pleasure of working directly with Mr. Kirchner on a project most recently at the Department of Fire Services located in Springfield, Massachusetts. The scope of work for this project involved the construction of a new modular Search and Rescue Building. WHP Training Towers scope of work involved installation of a MODx modular building with a burn room included. The work completed by Joe and his team consisted of miscellaneous metals works, carpentry and general labor.

WHP Training Towers has illustrated their attention to detail, quality and safety thru out the project. As a state facility our policy is to strive for the highest safety standards at all times. Working safely requires a serious commitment by everyone within the organization including all subcontractors that were on this project. Mr. Kirchner and his team has met and exceeded our safety program.

Scheduling within the construction industry is typically an art form in itself and Mr. Kirchner was able to effectively meet project schedule requirements. Due to grant funding, we had a very aggressive construction schedule to meet. Joe and his team was able to meet our deadlines and finish our project on time. He and his crew have been able to quickly adapt to schedule changes from other subcontractors in order to keep our project schedule on time. In addition, WHP Training Towers has been exceptionally accommodating when dealing with unforeseen conditions and potential change orders. Any punch list items were addressed without hesitation and the appropriate staff was on site to fix them.

Please consider Joe and his team at WHP Training Towers for your construction service needs. I recommend them and look forward to working with them again.

Peter Shipman

Peter Shipman
Deputy Director of Capital Asset Management
Massachusetts Department of Fire Services
978-567-3164

Administrative Services • Division of Fire Safety
Hazardous Materials Response • Massachusetts Firefighting Academy

City
of
Fairfield



Fire Department

DONALD G. BENNETT
Fire Chief

April 8, 2020

WHP Training Towers
9130 Flint
Overland Park, Kansas 66214

To Whom It May Concern:

The City of Fairfield initiated construction of a Fire Training Complex in 2004 and determined WHP Training Towers offered the best quality and design to meet our specific needs. The proposed project began in 2005 with the construction of a Residential Simulator with two burn rooms, confined space simulator, and ventilation panels in the roof.

During the design and bidding phase we found the representatives of WHP to be professional and guided our department in the decision making process while at the same time being respectful of our budgetary restraints. The delivery of the construction material was on time and delivered without incident. The construction crew and all personnel associated with the build were of the highest quality and well trained in their respective trade.

In 2006, the second phase of the build involved the construction of a 4-story training tower which included a sprinkler and standpipe system, exterior industrial ladder with enclosure, and rappelling capabilities from the roof. Again, our experience with WHP during the design, bidding process, and construction exceeded our expectations.

Our Fire Training Complex is now fifteen years old and the building have withstood continual use by our department without a significant cost to maintain. The metal building components have held up to the elements and the use by several hundred fire personnel.

We appreciate the opportunity to recommend WHP Training Towers and sincerely believe they are worthy of your consideration.

Respectfully,

Donald G. Bennett, EFO, CFO
Fire Chief

Smoke Detectors Save Lives

375 Nilas Road, Fairfield, Ohio 45014-2602 (513) 867-5379 / FAX (513)867-6060
This Document Available in Alternative Format. TDD (513) 867-5392



COLORADO

Division of Fire
Prevention & Control

Department of Public Safety

Professional Qualifications and Training
690 Kipling Street, Suite 2000
Lakewood, CO 80215

March 31, 2020

To Whom It May Concern,

We have been asked to by the management of WIIP Training towers to write a letter of recommendation for the business. Under most conditions, I wouldn't be willing to do this for a vendor, but WHP completely exceeded our expectations and I am more than happy to detail our experience. I have formulated sub-topics to address the questions we sent out to live-fire facility customers when we were seeking a live-fire training building vendor.

1. In what capacity have you worked with this vendor?

We had received a FEMA AFG Grant to construct a live-fire burn building. With this being our first live-fire structure, we contacted a few vendors asking for references and were able to go out and look at existing buildings to gain perspective on types of products available and gauge customer satisfaction with the end users. This is where the vendors started to separate themselves from each other in terms of integrity and quality. We determined one of the vendors (not WHP) didn't tell us about two projects they had within 60 miles of our main office due to customer conflict and equipment warranty issues. WHP provided a list of ALL projects and were able to visit a few and meet with the customers. After developing an RFP, the oversight committee awarded the contract to WIIP and we developed a delivery schedule.

2. Rate the firm's knowledge and expertise.

As this was our first fixed facility unit, we relied heavily on WHP to assist us with project planning and to make sure we complied with applicable building codes and NFPA standards. From the beginning, WIIP helped us navigate a few pitfalls making sure that we were in touch with our city engineer to ensure an optimum site selection and placement of supporting facilities and structures. Our finished project passed all inspections without any follow-up required and the facilities were also NFPA compliant.

3. Rate the vendor's flexibility relative to changes in the project scope and timelines.

This is the area where WIIP really came through for us. We had an agreed upon project timeline and WHP hit all of the delivery benchmarks on time or most often at least one week early. We ran into a delay with the property owner (we had a prior agreement that was disregarded and had to start from scratch) and our project was delayed 4 months on our end. Meanwhile, WHP completed fabrication and stored all of the materials on site in Overland Park, KS. By the time we worked out our issues with the property owner, we were in serious time overruns for the grant performance period. I kept WHP staff apprised of our situation and they indicated they would do everything in their power to help us meet our now unreasonable deadline. I had many nighttime and weekend conversations with WHP COO Maggie Scalety regarding our situation. When we finally had a signed agreement from the property owner to construct the training tower, WHP delivered the materials and had completed the construction of the tower within 3 weeks. Our project was complete and we stayed in compliance with our FEMA AFG Grant award. With our delay and final rush at the end and 4 months of storage at their facility, WIIP did not charge us for all of these additional burdens and rush to finish the job, and we now have the State of Colorado's first functional and operational Class A and Class B regional live-fire training facility.

700 Kipling Street Suite 1000, Lakewood, CO 80215 cdpsweb.state.co.us
John W. Hickenlooper, Governor | Stan Hilkey, Executive Director



4. Rate the dynamics/interaction between the vendor and your staff.

With Maggie and all of the management, which included CEO Bill Jahnke, they always made time for us, listened to our concerns and made us feel as we were their most important customer. As I indicated earlier, I am really not willing to take the time to write a letter of recommendation for a vendor, but I have never had a vendor provide the stellar type of customer service that WIIP provided us in this past year.

I would welcome the opportunity to discuss WIIP's qualifications in more detail. Please don't hesitate to contact me if you have any questions. My cell number is 970-749-5100.

Sincerely,



Mark C. Quick - EFO
Section Chief, State Fire Training Director





UNIVERSITY OF
MARYLAND

MARYLAND FIRE AND RESCUE INSTITUTE

4500 Campus Parkway
College Park, Maryland 20742
301.226.9900 TEL
www.mfri.org

April 9, 2020

To Whom It May Concern:

It is my pleasure to communicate with you in reference to WHP, Inc. I have had the opportunity to work with WHP's personnel for over thirty-five years. During this time I have found the company to be courteous, responsive, and professional. WHP's has always operated to the highest industry and ethical standards.

At the University of Maryland, Maryland Fire & Rescue Institute we have WHP products in five interior structural firefighting training structures. We have found the products to be of the highest quality and meeting or exceeding industry standards. In one of our "burn buildings" we have conducted a side by side comparison between WHP products and other similar products in the industry and have concluded the products perform equal to all products and superior to some. *(This is the only structure in the Country where this side by side comparisons have been conducted in an actual training environment.)*

I have personally served on the NFPA Training Committee for more than twenty-five years, this is the Committee responsible for NFPA 1403, the standard covering interior structural firefighting, and also serve on the NFPA 1402 Committee, this is a new committee specifically covering fire training facilities. I have personally been involved in the design, construction, and operation of the six training centers of the Maryland Fire & Rescue Institute as well as consulted in this specialty nationwide. I feel very qualified to offer a very positive recommendation for WHP Inc.

Sincerely,

A handwritten signature in black ink that reads "F. Patrick Marlatt".

F. Patrick Marlatt
Deputy Director



BROOKLINE FIRE DEPARTMENT

Town of Brookline Massachusetts

**FIRE DEPARTMENT
HEADQUARTERS**

John F. Sullivan
Chief of Department
Emergency Management Director

350 Washington Street
PO Box 470557
Brookline MA 02447-0557
Tel: 617-730-2272
Fax: 617-730-2391
www.brooklinema.gov

April 13, 2020

Ms. Maggie Scaletty
WHP, Chief Operating Officer
9130 Flint St.
Overland Park, KS 66214

Dear Maggie,

It gives me great pleasure to write this letter of recommendation for WHP Training Towers and the entire WHP team. My first opportunity to work with Bill Jahnke and the WHP group goes back nearly 20 years now and we have maintained a close personal and professional relationship since that time.

In 2001 following the Worcester Cold Storage Fire, I was Captain of Training for the Worcester Fire Department and worked closely with Jim Eicholtz in the design and specifications phase of the Worcester WIIP facility. Jim was always very accommodating and allowed us to really work through what we needed for the project. The construction process was relatively simplistic and the oversight that WIIP provided during that time was outstanding. In every aspect of the post-construction phase the company has been immediately responsive and helpful. The Worcester Fire Department facility boasts one of the highest utilization marks of any WHP facility and it has stood the test of time over these nearly 20 years of service.

In 2018 I was appointed as Fire Chief Of the Town of Brookline, and was fortunate enough to inherit a substantial construction project for a new combined Training & Maintenance facility, which included a WHP Training Tower component. My subsequent experience with WIIP was as high-quality as my initial one was some 17 years later. Our new facility is in its infancy; however the company's attention to customer service and support remains outstanding.

I highly recommend WHP for any fire department's training tower needs.

Sincerely,

John F. Sullivan, E.F.O., C.F.O., MFireE
Chief of Department – Brookline Fire Department
Emergency Management Director – Town of Brookline