

Cameron Park Community Services District  
2502 Country Club Drive  
Cameron Park, CA 95682



**Fire and Emergency Services Committee**  
**Tuesday, May 5, 2020**  
**5:30 p.m.**

**TELECONFERENCE ZOOM MEETING**  
<https://us02web.zoom.us/j/81570566749>

**Meeting ID: 815 7056 6749**

(Teleconference/Electronic Meeting Protocols are attached)

**Agenda**

Members: Chair Director Ellie Wooten (EW), Vice Chair Director Monique Scobey (MS)  
Alternate Director Eric Aiston (EA)

Staff: General Manager Jill Ritzman, Chief Sherry Moranz, Chief Jed Gaines

**CALL TO ORDER**

**ROLL CALL**

*Public testimony will be received on each agenda item as it is called. Principal party on each side of an issue is allocated 10 minutes to speak, individual comments are limited to 3 minutes except with the consent of the Committee; individuals shall be allowed to speak on an item only once. Members of the audience are asked to volunteer their name before addressing the Committee. The Committee reserves the right to waive said rules by a majority vote.*

**ADOPTION OF AGENDA**

**APPROVAL OF CONFORMED AGENDA**

**OPEN FORUM**

*Members of the public may speak on any item not on the agenda that falls within the responsibilities of the Committee.*

**DEPARTMENT MATTERS**

- 1. Presentation: California Climate Investment Grant – Program Accomplishments and Plans**  
(J. Gaines)

**2. Review Fire Training Tower Vendor Selection (S. Moranz)**

**3. Staff Updates – Fire Department Report**

**4. Items for June and Future Committee Agendas**

**5. Items to take to the Board of Directors**

**MATTERS TO AND FROM COMMITTEE MEMBERS**

**ADJOURNMENT**



# Teleconference/Electronic Meeting Protocols

## Cameron Park Community Services District

(Effective April 2, 2020)

*WHEREAS, on March 4, 2020, Governor Newsome proclaimed a State of Emergency to exist in California as a result of the threat of COVID-19; and*

*WHEREAS, March 17, 2020, Governor Newsome issued Executive Order N-29-20 suspending parts of the Brown Act that required in-person attendance of Board members and citizens at public meetings; and*

*WHEREAS, on March 19, 2020, Governor Newsome issued Executive Order N-33-20 directing most individuals to shelter at home or at their place of residence.*

*NOW, THEREFORE, the Cameron Park Community Services District will implement the following protocols for its Board and committee meetings.*

The guidance below provides useful information for accessing Cameron Park Community Services District (“District”) meetings remotely and establishing protocols for productive meetings.

### **BOARD AND COMMITTEE MEMBERS:**

- **Attendance.** Board and Committee Members should attend District meetings remotely from their homes, offices, or an alternative off-site location. As per the Governor’s updated Executive Order N-29-20, there is no longer a requirement to post agendas at or identify the address of these locations.
- **Agendas.** Agenda packages will be made available on the District’s website. They will also be sent by email to all Board and Committee Members. Note that under the circumstances, District staff may not be able to send paper packets.
- **Board and Committee Member Participation.** Meeting Chair(s) will recognize individual Board and Committee Members and unmute their device so that comments may be heard or will read comments if they are provided in writing only.

## **PUBLIC PARTICIPATION:**

- **Attendance.** The District’s office will remain closed to the public until further notice. Members of the public will be able to hear and/or see public meetings via phone, computer, or smart device. Information about how to observe the meeting is listed on the agenda of each meeting.
- **Agendas.** Agendas will be made available on the District’s website and to any members of the public who have a standing request, as provided for in the Brown Act.
- **Public Participation.** The public can observe and participate in a meeting as follows:
  - **How to Observe the Meeting:**
    - **Telephone:** Listen to the meeting live by calling Zoom at (669) 900-6833 or (346) 248 7799. Enter the Meeting ID# listed at the top of the applicable Board or Committee agenda followed by the pound (#) key. More phone numbers can be found on Zoom’s website at <https://us04web.zoom.us/j/91011220960> if the line is busy.
    - **Computer:** Watch the live streaming of the meeting from a computer by navigating to the link listed at the top of the applicable Board or Committee agenda using a computer with internet access that meets Zoom’s system requirements (<https://support.zoom.us/hc/en-us/articles/201362023-System-Requirements-for-PC-Mac-and-Linux>)
    - **Mobile:** Log in through the Zoom mobile app on a smartphone and enter the Meeting ID# listed at the top of the applicable Board or Committee agenda.
  - **How to Submit Public Comments:**
    - **Before the Meeting:** Please email your comments to [admin@cameronpark.org](mailto:admin@cameronpark.org), with “Public Comment” in the subject line. In the body of the email, include the agenda item number and title, as well as your comments. If you would like your comment to be read aloud at the meeting (not to exceed 3 minutes at staff’s cadence), prominently write “Read Aloud at Meeting” at the top of the email. Emails running longer than the time limit will not be finished. All comments received at least 2 hours prior to the meeting on the day the meeting will be held, will be included as an agenda supplement on the District’s website

under the relevant meeting date, and provided to the Directors/Committee Members at the meeting. Comments received after that time will be treated as contemporaneous comments.

- **Contemporaneous Comments:** During the meeting, the Board President/Committee Chair or designee will announce the opportunity to make public comments. If you would like to make a comment during this time, you may do so by clicking the “raise hand” button. You will be addressed and un-muted when it is your turn to speak (not to exceed the 3 minute public comment time limit).

#### **FOR ALL PARTICIPANTS:**

- **Get Connected:** Please download Zoom application for your device and familiarize yourself with how to utilize this tool. There is no cost for using the application.
- **Ensure Quiet.** All audience members will be muted during the meeting until they are addressed by the Board/Committee as their time to speak. Please make every effort to find a location with limited ambient noise. Please turn off the ringer on your phone and other notification sounds on your devices to reduce interruptions.

We anticipate that this process of moving to remote meetings will likely include some challenges. Please bear with us as we navigate this process.

Cameron Park Community Services District  
2502 Country Club Drive  
Cameron Park, CA 95682



**Fire and Emergency Services Committee**  
**Tuesday, March 3, 2020**  
**5:30 p.m.**

**Cameron Park Community Center**  
**2502 Country Club Drive, Cameron Park**

**Conformed Agenda**

Members: Chair Director Ellie Wooten (EW), Vice Chair Director Monique Scobey (MS)  
Alternate Director Eric Aiston (EA)

Staff: General Manager Jill Ritzman, Chief Sherry Moranz, Chief Jed Gaines

**CALL TO ORDER** – 5:30pm

**ROLL CALL** – EW/MS

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**ADOPTION OF AGENDA** - *Approved*

**APPROVAL OF CONFORMED AGENDA** - *Approved*

**OPEN FORUM**

*Members of the public may speak on any item not on the agenda that falls within the responsibilities of the Committee.*

**DEPARTMENT MATTERS**

- 1. Weed and Rubbish Abatement Ordinance 2020.03.18 Updates** (S. Moranz)
  - *Discussed Weed and Rubbish Abatement Ordinance 2020.03.18 update. Move to Board with support.*
  
- 2. Fire Impact Fees – Training Tower** (S. Moranz)
  - *Discussed Training Tower planning and approval process. Move to Board with support.*

**3. Report Backs – Staff and Committee Members**

- CCI Grant Status/Activities

**4. Items for April and Future Committee Agendas**

- *Update on CCI Grant Status/Activities*

**5. Items to take to the Board of Directors**

- *Ordinance 2020.03.18 Weed & Rubbish Abatement – Public Hearing & Second Reading*
- *Fire Impact Fees – Training Tower*

**MATTERS TO AND FROM COMMITTEE MEMBERS**

**ADJOURNMENT** – 6:30pm



## Agenda Transmittal

**DATE:** May 5, 2020

**FROM:** Jill Ritzman, General Manager  
Sherry Moranz, Fire Chief

**AGENDA ITEM #2:** PURCHASE TRAINING TOWER – FIRE FACILITIES, INC.

**RECOMMENDED ACTION:** REVIEW AND DISCUSS; FORWARD TO THE BOARD OF DIRECTORS

### Introduction

On March 18, 2020, the Board of Directors approved the construction of a fire training tower at Fire Station 89. Fire Department staff researched vendors and recommend Fire Facilities as a sole source vendor.

### Discussion

Policy 3080 – Purchasing allows exceptions to the competitive public bid process in certain instances.

*Policy 3100.200 Provisions requiring competitive bidding shall not apply to the following instances:*

*B. Where the District's requirements can be met solely by a single patented article or process.*

In summary, District policy allows for the Board of Directors to approve a vendor without a competitive process if that vendor has a product that is unique and cannot be secured from another vendor. Fire Facilities is unique from other vendors because:

- Fire Facilities exclusively features the Westec Insulation System for use in live-burn room applications, protected by a US Patent. The design is a 2" thick system that can sustain temperatures up to 2300 degrees, which is not offered by other vendors. The two-part insulation system, consists of the insulation blanket and



a stainless steel liner that reduces maintenance costs and extends the life of the tower. The thicker insulation with higher temp limit is very important to protect the overall structure and it is part of Westec's patented system

Additional considerations for recommending this vendor include:

- A 15 year limited warranty, which applies to products under normal use and recommended service temperatures. In addition, the warranty includes damage caused by thermal expansion, thermal contraction, impact load, and thermal shock. Most other vendors provide a 1 to 10 year warranty.
- Burn rooms can be used for Class A, B, propane and natural gas, and are approved by National Fire Protection Association, a non-profit organization devoted to eliminating death, injury, property, and economic loss due to fire, electrical, and related hazards.

The CAL FIRE Training Academy in Ione, California has the same training tower. This tower is 25 years old and has had minimal repairs to the structure. Founded in 1989, Fire Facilities provided over 400 towers throughout the United States and overseas.

In the next few months, the District will secure a certified dealer/contractor to construct the pre-fabricated tower and perform the necessary foundation work. By approving the manufacturer now, the County Planning Department can proceed with the permitting and approval process.

Attachment:

2A – Fire Facilities Sole Source Patent



## Sole Source Patents

## Our Commitment To You

At Fire Facilities, Inc. we are committed to our customers' success by providing the highest quality trainings tower available on the market.

We provide quality products and services by first consulting with you to find out what you, the customer, want and allowing you to make your own choices and decisions. FFI is committed to guiding you through the process by providing tower model examples to get you started, free customized proposal drawings, and a vast quantity of innovative and quality accessories for your tower. We have all in house services and immediate assistance. We are a metal building manufacturer, have knowledgeable fire service sales representatives, professional engineers on staff, certified dealers to provide erection, and the only training tower supplier to offer a 15-year warranty on our highest thermal resistance Westec Insulation System.

### I. Full Service Provider

- A. We are our own manufacturer, have knowledgeable fire service sales representatives to guide you, professional engineers on staff to provide consultation and design, certified dealers to provide erection – **this provides total turnkey project for you, the customer.**
- B. FFI also allows you, the customer, to decide to erect the tower yourself, use a local erector, or use one of our certified dealers to erect the tower - **it is your choice.**

### II. Weather Tight

- A. FFI's 18 ga. galvanized wall panels have two coats of baked on paint on **both sides**. These panels are horizontally lapped providing a weather tight enclosure. Since panels are set in the horizontal plane, sealants are not required to make wall system weather tight. **Remember fire training towers are constantly exposed to high temperatures and sealants/caulk in extreme temperature environments can breakdown prematurely, leaving a vertical lapped panel totally exposed to the elements.**

### III. Floor Strength

- A. FFI's tower utilizes a structural steel/red iron skeleton, which supports the floor joists. Floor joist design strength is based on numerous factors. These factors include joist span length, loads, size, and spacing. Out of these four factors the most important one in the design equation is the span length. The length of a joist affects the deflection, or "firmness of the floor when you jump up and down", by four times more than any other factor (i.e., joist spacing). Since our tower utilizes a structural skeleton – the floor joists normally are half as long as a tower that does not utilize a structural skeleton. **Joist spacing is a minimal part of the "feel" of the floor when compared to joist span length.**
- B. Our floor panels were specifically designed to provide a safe working deck. These floor panels are manufactured to provide the flattest and most skid resistant floor

panel available. This panel was developed by FFI after realizing (through customer suggestions) that commercially available floor panels are too slippery and have large gaps that cause problems in comfort when crawling or injuries when just walking on them. Our panel profile limits the gap to only 1" wide by 1" deep with a large 5" wide flat to walk on. We also use galvanized material instead of galvanized because galvanized is more textured to prevent slippage.

Galvanized steel is hot dipped galvanized and then processed further to provide a rougher surface. These panels can support well over 100 pounds per square foot.

- C. Since our floor panels are a superior product over commercially available products, concrete floor covering is not a necessity in the entire tower - only in the burn rooms. Typically we have found that the main focus of the water streams are in the burn room locations. **Concrete floors throughout the entire tower are an option that we provide - but they are not a necessity because of the custom FFI floor panel system.** If water drainage is a concern, the floor panel system, additionally, has a built in recess to allow water to drain away from the walking surface. **Again, FFI believes in providing you with the choice.**

#### IV. Walls and Fasteners

- A. The FFI tower utilizes a structural steel frame system and curtain wall design. Structural framing systems are considered the norm for commercial structures and used exclusively for high-rise structures because of their high strength capabilities. The curtain wall/exterior wall panel design produces an ideal buffer or protection between the main structural frame of our building and any exterior elements, so that if an exterior wall panel is damaged (i.e., fire truck hits the side of the tower) **no structural damage is likely to occur. This horizontally lapped wall panel system also creates an ideal flat surface for laddering or rappelling anywhere on the tower because it simulates a flat wall/real world condition.** Our panel also has great aesthetic appeal because it looks like house siding, only much stronger.
- B. Our structural steel/red iron skeleton is factory welded, by certified welders, and bolted together in the field with structurally rated 5/8" or 1" diameter A325 bolts. The exterior wall panels on our tower are then fastened to the studs at 6" on center with #12 self-drilling screws that have a EPDM washer under the head for sealing out the elements. **Since the exterior wall is not required to structurally support the building loads (red iron frame does that), bolts are not required to fasten the walls panels. However, the wall panel screws, that we utilize, are exactly the same size screw that we use to fasten the floor panels.**

#### V. Usable Space

- A. FFI's towers come in both 10' and 9' floor to floor heights. The structural columns and beams help to maximize the usable space in the following ways.
1. Minimum headroom clearance for virtually the entire tower is 9'-3" (8'-3" for 9' floor to floor) - while small areas that are located directly under beams are 8'-1" (7'-5" for 9' floor to floor). **Height clearance is normally not a concern unless someone is taller than 8'-1" (7'-5"), please remember residential ceiling heights are only 8' high.**

2. The structural columns only project into the room in minimal areas along our walls. Since a structural steel system is utilized the floor space is maximized because our walls take up less room than towers that do not utilize a structural steel skeleton.
3. All of our gabled roof attic spaces allow for easy access because there is no truss work to crawl through – just simply walk in for more usable space.
4. The structural steel system utilized by FFI allows for window and door placements virtually anywhere in the structure, even in braced walls.

VI. Stairs – FFI provides a stair that Exceeds OSHA standards

- A. **Stair widths are 3'-8"**, instead of the minimal width of 3'-0", to provide the stair width commonly required by most building codes. The handrails and guardrails have **three horizontal rails for added safety by minimizing gaps between rails.**
- B. **Steel bar grate approaches/landings are provided for safety** to act as a warning to the trainee in low visibility environments so that the trainee can "feel" when a stairs is near.
- C. **Our stairs are factory assembled and factory-welded together, which provides a high quality stair without the need for field assembly.** Stairs come preassembled before shipping to help reduce problems that could arise in the field and save in erection time.
- D. Handrails and guardrails are designed to resist a 200 lbs point load in any direction at the top. **The handrails are an all factory-welded assembly. Guardrails have a factory-welded post assembly with welded sleeves to allow horizontal rails to be installed in the field.** FFI's railing are also made out of schedule 40 - 1 1/4" **round** pipe to produce real world conditions.
- E. Stairs, stringers, handrails, guardrails, bar grating, ladders, and platform frames can be either **prime painted as a standard or hot-dipped galvanized. Again, the choice is yours.**
- F. Please note that **no field welding is required** for assembling any of our rail systems or stairs. This is especially important if the **hot-dipped galvanized option** is requested. **Field welding will diminish and remove the hot-dipped galvanized protection, which normally is just touched up with a zinc rich spray paint that has little corrosion protection.** FFI hot-dipped galvanizes our stair and rails only after all welding is complete.

VII. Doors and Window Shutters

- A. FFI provides doors that are different for burn rooms and nonburn room areas. We have found that **commercially available doors cannot handle high temperature environments** because of numerous reasons (i.e., expansion/binding of doors, rusting, and the premature failure of door knobs/hardware). We manufacture a door that is a welded 18 ga. galvanized assembly, with interior stiffeners, which is specifically made to handle high temperature environments. Our manufactured doors are bolted to 16 ga. galvanized doorjamb with four hinges. Our doors are commonly found in fire training towers not produced by FFI because of premature failure of commercially available doors.

- B. FFI also provides/manufactures our own shutters. Again we have specifically designed our shutters to take the abuse of high temperature environments. **We do this by providing a welded 18 ga. galvanized assembly, with interior stiffeners – and do not provide a pan or single sheet shutter. Single sheet shutters are highly susceptible to warping because they are not an enclosed assembly with interior stiffeners.**
- C. **Additionally we provide an 18 ga. sill trim that has a beveled/45 degrees corner to help prevent damage in turnout gear and rope work when climbing in and out of window openings.**

#### VIII. Working Decks

- A. FFI currently provides a, low maintenance, 18 ga. galvanized roof deck that provides a “flat” walking surface without the need for additional items to attach to make the roof flat. **All of our roof systems utilized closures and caulk tape to make the roof system weather-tight.** We also provide replaceable edge protection for gabled roof systems or a, **beveled edge**, 18 ga. trim over the top of the edge on flat roof system.
- B. The standard for our flat roof system is to provide a higher load rated parapet wall around the perimeter which also has **beveled edges**. This higher load rating allows ropes and trainees to hang right over the top of the wall.
- C. **High maintenance or “renewable” asphalt shingles can be provided, at your choice.** However, shingles are not made to be walked on and will constantly need to be replaced. Also the plywood used under the shingles is not made to be in high temperature and moisture environments. **We offer a low maintenance and high strength alternative to shingles, our 18 ga. galvanized roof panels covered with a three-coat paint system on the walking surface.** The basecoat consists of an etch primer while the two topcoats are a finishing polyurethane paint with embedded rubber aggregate. This paint is slip resistant, water, abrasion, heat, chemical, salt water, UV and corrosion resistant.

#### IX. Chop Outs

- A. The chop outs that FFI utilizes are heavy gage/12 ga. galvanized welded assemblies with a diverting angle at the high side of the roof system to aid in water drainage. Our chop outs are purposely elevated to ensure that water will not run into the tower and to prevent damage to the roof itself when training.

#### X. Accessories/Custom Towers

- A. At FFI we have the largest variety and the highest quality accessories available for use for your training and convenience.
- B. We are able to design and engineer, in house, any custom towers or layouts. Towers can be also be easily expanded in the future or as your department’s needs grow.
- C. We have developed, designed, manufactured, and tested our accessories (i.e., integrated data retrieval pyrometer, movable partitions/mazes, smoke distribution system, etc.).
- D. We have many patents pending or issued showing our innovative nature and drive to produce better products and accessories the fire training industry.

## XI. Burn Room Liners

- A. The history of burn room liners over the course of the years has been simple; use a water resistant coating over a calcium silicate board. For FFI this product is called Westemp (type I) while other providers use different names. **These calcium silicate boards have one major flaw in that they eventually crack from the heat or are damaged by equipment causing a constant maintenance and financial burden to the customer.**
- B. Calcium silicate boards (type P or A) can be produced in higher densities to try to strengthen the panel itself. **But there is a major flaw with this system - the denser the panel the more heat will transfer through the panel to the building. The additional heat transfer could be detrimental to the structural integrity of the tower (see chart below which assumes no cracked panels).**
- C. Another development by other producers in the burn room liners was to use this same calcium silicate board and place a refractory concrete panel in front. Although it seems like a great alternative – it simply just **increased the sell price and hid the cracks in the calcium silicate boards (cosmetic fix).** Since the concrete panel has little thermal resistance it relies mainly on the calcium silicate boards for heat resistance. **Once these boards crack, the heat resistance is gone. The chart below shows the temperatures before cracking occurs.**
- D. **After listening to our customer concerns, FFI developed and designed a new burn room liner, Westec™. Our liner system was developed through careful consideration and design along with small and large scale testing. This product has been thoroughly tested and has been installed in over 76 different locations throughout the world without one warranty issue.**
- E. **Westec™ is the only burn room liner panel with the highest overall thermal resistance, rated for 1850 degrees continuous service temperature, and backed by a 15-year warranty (all other systems are only 1 year).** This system utilizes a stainless steel exterior with a ceramic fiber blanket to ensure that maintenance is not an ongoing issue because it is the strongest and most reliable system available. Because steel expands as it heats up, this system was designed to accommodate the panel movements without creating any buckling or warping of the panels. Steam conversion is no more a concern on stainless steel than calcium silicate board because, simply stated, a hot surface is a hot surface.

### Cold Face Temperature Comparison

Burn Room Hot Face	FFI Westec™ Insulation System	FFI Westemp® - 1" Thick Calcium Silicate Board "I"	1" Thick Calcium Silicate Board "P"	1" Thick Calcium Silicate Board "A"	2" Thick Concrete Casting Over 1" Thick Calcium Silicate Board "I"
1800°	376°	434°	485°	596°	335°
1600°	325°	398°	453°	555°	311°
1400°	276°	362°	419°	511°	287°
1200°	232°	327°	381°	464°	263°
1000°	193°	292°	340°	413°	237°
800°	159°	255°	296°	362°	210°
600°	131°	217°	246°	302°	180°
400°	108°	173°	191°	232°	148°

350 Business Park Drive, Sun Prairie, WI 53590, Phone: 800-929-3726, Fax: 866-639-7012, info@firefacilities.com, www.firefacilities.com

\* Temperatures are in degrees Fahrenheit

\*\* Temperatures shown are based on 80° F ambient still air and have been determined in accordance with ASTM C680-89

\*\*\* For firefighter safety FFI does not recommend training at temperatures above 1200° F

Please note: Temperatures are shown directly at the back of the specified insulating system. Temperatures shown do not reflect the higher cold face temperatures that would occur directly at an insulating system's fastening device. Westec™ does not have fasteners that penetrate directly through the thermal barrier, therefore no additional hot points are created. These hot points could be detrimental to your structure.

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## **Cameron Park Fire Department**

In Cooperation with

***CAL FIRE***



3200 COUNTRY CLUB DRIVE  
CAMERON PARK, CA 95682  
Business (530) 677-6190  
Prevention (530) 672-7336  
FAX (530) 672-2248

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### **Fire and Emergency Services Committee May 5, 2020**

- Firefighters continue to take extra precautions on all calls. We continue to modify and change our policies and procedures to best protect our staff and their families.
- Call volume has continued to decline during the month of April.
- Both Fire Stations are still closed to the public. All Fire Marshal and public administrative concerns are being handled via phone or email.
- New Engine 88 has been delayed 30-60 days due to COVID-19.

### **Weed Abatement and Grant Summary**

- All residents received their Fire Prevention and Education post card and magnet during the month of April. 7,500 were mailed out.
- Over 300 vacant lots have been inspected and 200 letters were sent out for noncompliance lots. Reinspection will begin on May 1, 2020.
- 341 inspections have been done on habitable structures within Cameron Park. Out of the 341 inspections, 20 have failed and will be re-inspected.
- Submitted for CEQA review for 64 acres of fuels reduction work to be done on Cameron Park CSD owned property. This should be complete within the first part of May.
- All 5 metal Fire Prevention signs are planned for installation at Hacienda Park, Gateway Park, Sand Piper (Bass Lake), CP Lake, and CSD.
- Crews from Growlersburg Camp along with BLM continue working on a 200-foot fuel break on the Pine Hill Preserve. Crews have been cutting, piling, burning, and chipping as they go. This project is supported with funds from the CCI Grant.