

# BID SOLICITATION



**City of Chattanooga**  
**101 East 11th Street, Suite G13**  
**Chattanooga, TN 37402**

## BID OPENING DATE AND TIME:

30-JUN-16 at 2:00 PM

**BID NUMBER: 304302**

## SEALED BIDS

Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

## BUYER:

**PHONE #: (423) 643-7230**

**DELIVERY REQUIRED:**

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O** City of Chattanooga  
101 East 11th Street, Suite G13  
Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total
BID 304302 / Req. 137012 Ordering Dept.: Chattanooga Fire Department Buyer: Sharon Lea, Email: slea@chattanooga.gov Phone No.: 423-643-7235, Fax No.: 423-643-7244  Firefighter's Station & Dress Uniforms  ATTACHMENTS: Bid Document w/Estimated 12 Month Usage, Specifications (57 pages)  This Shall Be A Twelve (12) Month Blanket Contract To Supply Station & Dress Uniforms for the Chattanooga Fire Department. The Contract Term May Be Renewed For An Additional One (1) Twelve (12) Month Term Under The Same Terms And Conditions By Mutual Agreement. The City Of Chattanooga And The Contractor May Bilaterally Extend The Contract By Providing Written Confirmation Of Agreement By Both Parties At Least 30 Days Prior To The Contract's Current Expiration Date Into Any Successive Term As Provided Herein.  QUANTITIES ARE ESTIMATES ONLY.  *** BID MUST BE RECEIVED NO LATER THAN *** *** 2:00 PM EST ON JUNE 30, 2016 ***  ***ALL QUESTIONS MUST BE SUBMITTED IN WRITING*** ***NO LATER THAN 4:30 PM EST JUNE 22, 2016***  City of Chattanooga (COC) Terms and Conditions posted on Website <a href="http://www.chattanooga.gov/general-services/purchasing/standard-terms-and-conditions">http://www.chattanooga.gov/general-services/purchasing/standard-terms-and-conditions</a> If you can't download call buyer for a copy.  NOTE: ALL BIDS MUST BE SIGNED All bids received are subject to the terms and conditions contained herein and as listed in the above referenced website. The undersigned Bidder acknowledges having received, reviewed, and agrees to be bound to these terms and conditions, unless specific written exceptions are otherwise stated.  Any manufacturers names, trade names, brand names, or catalog numbers used in the specifications are for the purpose of describing and establishing general quality levels. Such references are not intended to be restrictive. Bids will be considered for any brand which meets or exceeds the quality of the specifications listed for any item.  The City of Chattanooga reserves the right to reject any and/or all bids, waive any informalities in the bids received, and to accept any bid which in its opinion may be for the best interest of the city.  The City of Chattanooga will be non-discriminatory in the purchase of all goods and services on the basis of race, color, or national origin.  **** NOTE: PLEASE PROVIDE US WITH THE FOLLOWING INFORMATION:  Company Name _____  Address _____					

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Item	Class-Item	Quantity	Unit	Unit Price	Total
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Fax No. _____					
eMail Address _____					
Contact Person's Name _____					
Estimated Delivery _____					
Minority-Owned Business _____ Small Business _____ Veteran _____					
Minority Woman-Owned Business _____ Disabled Veteran _____					
Woman-Owned Business _____					
**** ALL ITEMS MUST BE QUOTED F.O.B. DESTINATION ****					

NOTE: ALL BIDS RECEIVED ARE SUBJECT TO THE TERMS AND CONDITIONS

The City is Exempt from all Federal and State Tax.  
Bids will be received at the above mentioned address.

TERMS OF PAYMENT: \_\_\_\_\_

TELEPHONE NUMBER: \_\_\_\_\_

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COMPANY: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

NAME AND TITLE: \_\_\_\_\_

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Item	Class-Item	Quantity	Unit	Unit Price	Total
1	Badge ID Case, color black with blue felt insert for badge protection. Wallet size. Per attached specifications.	50	Each	_____	_____
2	Bell Crown Dress Cap. Per attached specifications.	50	Each	_____	_____
3	C.F.D.Bars, silver or gold with pin back, black letters, metal. Per attached specifications.	50	Each	_____	_____
4	Coat Badge for all ranks: Firefighter, Lieutenant, Captain, Fire Prevention, Chief and Retired Firefighter. Nickel finish or gold finish. Per attached specifications.	50	Each	_____	_____
5	Dress Shoes, black, plain toe, shiny military style. Per attached specifications.	50	Each	_____	_____
6	Elbeco Paragon Plus Dress Shirt, Long Sleeve.Per attached specifications.	50	Each	_____	_____
7	Elbeco Paragon Plus Dress Shirt, Short Sleeve.Per attached specifications.	50	Each	_____	_____
8	Fechheimer Brothers Company Dress Coat #38803 color navy. Per attached specifications.	50	Each	_____	_____
9	Fechheimer Brothers Company Dress Pants #38200 color navy. Per attached specifications.	50	Each	_____	_____
10	Flying Cross by Fechheimer, Nomex Pants, Color Navy, Mens, Item #98200 or equivalent Per Attached specifications.	50	Each	_____	_____

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Item	Class-Item	Quantity	Unit	Unit Price	Total
11	Flying Cross by Fechheimer, Nomex Pants, Color Navy, Womens, Item #98250 or equivalent Per Attached specifications.	50	Each	_____	_____
12	Flying Cross by Fechheimer, Nomex Shirt, Color Navy, Mens, Item #9820 or equivalent Per Attached specifications.	50	Each	_____	_____
13	Flying Cross by Fechheimer, Nomex Shirt, Color Navy, Womens, Item #9830 or equivalent Per Attached specifications.	50	Each	_____	_____
14	Hat Badge for all ranks: Firefighter, Lieutenant, Captain, Fire Prevention, Chief and Retired Firefighter. Nickel finish or gold finish. Per attached specifications.	50	Each	_____	_____
15	Jerzee Knit men's 7.oz. 60% cotton/40% polyester short sleeve pique golf shirt with monogram. Per attached specifications.	50	Each	_____	_____
16	Name tag, silver or gold with pin back, black letters, metal. Price to include engraving. Per attached specifications.	50	Each	_____	_____
17	Redkap Cotton Cargo Shorts 8.5 oz. 100% cotton. Per attached specifications.	50	Each	_____	_____
18	Shirt Badge for all ranks: Firefighter, Lieutenant, Captain, Fire Prevention, Chief and Retired Firefighter. Nickel finish or gold finish. Per attached specifications.	50	Each	_____	_____
19	Station Shoes, black, leather with plain toe. Magnum Midnite Plus II zip style #8202 & Rocky #2025 or equal. Per attached specifications.	50	Each	_____	_____
20	Tri-Mountain, Mountaineer Jacket, color black, Item #8800. Per attached specifications.	50	Each	_____	_____

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Item	Class-Item	Quantity	Unit	Unit Price	Total
21	Uniform Coveralls, Color Navy, must meet or exceed NFPA 1975 Standard on station/work uniform for firefighters. Per attached specifications.	50	Each	_____	_____
22	Uniform Pants, Industrial Style, Color Navy or Gray. Per attached specifications.	50	Each	_____	_____
23	Uniform Shirt, Industrial Style, Color Navy or Gray. Per attached specifications.	50	Each	_____	_____
24	Uniform belt, black leather with gold or silver. Garrison style buckle or equal. Per attached specifications.	50	Each	_____	_____
25	Uniform tie, color navy (dark blue), clip on 3-1/4" wide. Per attached specifications.	50	Each	_____	_____

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TELEPHONE NUMBER: \_\_\_\_\_

COMPANY: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

NAME AND TITLE: \_\_\_\_\_

## **CHATTANOOGA FIRE DEPARTMENT UNIFORM SPECIFICATIONS**

**PURPOSE:** The purpose of this bid is to find a uniform supplier who can supply the items listed in the specifications. The Chattanooga Fire department is willing to consider any and all brands that meet or exceed the specifications mention. The successful bidder must be able to supply any and all items listed in the specifications in a timely manner. All alterations must be done locally by a skilled seamstress who can come out and measure academy candidates upon request. We have tried to use color pictures in the specifications; however there may be some items in the specifications that are not pictured. If you need additional information concerning any item please contact the City of Chattanooga Purchasing Department.

### **UNIFORM SPECIFICATIONS:**

1. Fabric must be of 65/35 ratios of polyester and cotton with wrinkle resistance. Available in 4 pocket or cargo style.
2. Color must be as follows:
  - a. Pants -Navy or Gray
  - b. Coveralls -Navy or Gray
3. Pants and shirts must be industrial in style. (See attached photo)
4. Sizes available shall be as follows:
  - a. Pants -up to, but not limited to, size 56
  - b. Coveralls -up to, but not limited to, size 64 regular
5. Length shall be hemmed to the nearest inch.
6. Coveralls needed by welders must meet or exceed NFPA 1975 standard on station/work uniform for firefighters.
7. Any problems with sizing must be corrected within 7 days of returning the uniform, if the problems are the fault of the Vendor.
8. Uniform prices will be frozen for the length of the contract not to exceed 12 months, with the City's option to renew an additional twelve months at the City's discretion.
9. New uniforms shall be fitted and sized at the beginning of the new contract with no cost to the City of Chattanooga.



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**DELIVERY:**

1. Uniforms are to be delivered within 30 days after order has been made.
2. Each employee's order shall be packaged per order, per employee with the employee's name and order plainly visible on the package.

**COMPANY QUALIFICATIONS:**

Company must have established period of service no less than 18 months.

**PAYMENT:**

Payment shall be made after all uniforms have been received correctly and in accordance with the City's payment procedures.

## **CHATTANOOGA FIRE DEPARTMENT DRESS COAT UNIFORM SPECIFICATIONS**

### **MODEL NUMBER:**

Fechheimer Brothers Company (Flying Cross) Dress Coat #38803 (or equivalent color must match what we currently have)

### **FABRIC:**

Textured woven 100% Dacron Polyester. Weight 11-11.5 oz./Linear yards. Yarn size: 2-ply, 150 Denier. Weave: 2 x 2 Serge. Minimum of 8% stretch in warp and 10% in filling. Color: Navy Blue

### **BASIC DESIGN:**

Four (4) button, single-breasted straight front, semi-form fitting with notch lapels and epaulets.

### **BUTTONS:**

Four (4) 36 Ligne Gilt "P" buttons sewn on front 4" apart and one (1) 24 Ligne Gilt "P" button on each pocket flap.

### **COLLAR:**

Shall not be over 1-7/8" wide in back when finished. To be stiffened with best quality Belgium elastic. Under collar of all wool collar cloth, closely padded.

### **EDGES AND SEAMS:**

Edges to be single stitched 3/16". Plain seams, pressed open.

### **POCKETS:**

Two (2) lower scalloped flaps, no pockets, two (2) breast pockets pleated patch pockets with scalloped flaps. Lower and breast flaps to button with gilt "P" buttons. One (1) inside reinforced breast pocket piped with same material 6" wide and 7" deep.

### **POCKETING:**

Inside pockets to be Drill.

**LINING:**

Coat is to be fully lined with navy blue rayon or 70 Denier nylon.

**VENT:**

Shall be back center.

**BADGE TAB:**

Separate oval badge tab made of cloth about 1-1/2" wide and 2-1/4" long with two (2) metal eyelets, about 1-1/8" apart, sewn to the outside left breast of the coat, so that the lower point of the badge is 1" above the breast pocket button.

**BUTTONHOLES:**

All buttonholes, except shoulder strap buttonhole, shall be made to a full 1/2" from the edges of the seam and pocket flaps. The ends of all buttonholes shall be bartacked. All buttonholes to be "cut after" machine made buttonholes. All thread used in making buttonholes shall be black silk, tailor's twist, colorfast and guaranteed against fading.

**SWEAT SHIELDS:**

A sleeve sweat shield of the same cloth as in the body of the coat, piped with rayon to be securely set under each arm over the lining.

**SHOULDER STRAP:**

To be sewn in sleeve seam directly on top of the shoulder. The strap shall come under the collar and fasten with 24 Ligne metal buttons at the edge of collar. Cross stitched.

**OUTLETS:**

All body seams to have outlets of not less than 1". Turn up at sleeve cuffs to be no less than 2 1/2".

**CONSTRUCTION:**

Hymo, felt and canvas to be properly stayed together with edges taped and sewn into seams. Finest canvas, felt and hymo available and cut to fit the actual size of the coat. Heavy shoulder pads. All findings thoroughly cold water shrunk.

**LABELS:**

There shall be permanently affixed size label and care instruction label. Garment must be made in the United States of America and bear a union label.

**BUTTONS:**

Shall be with "FD" buttons on dress uniform, gold or silver and size.

**\*\*\*NOTE\*\*\* WILL SELL TO FIRE FIGHTERS AT THE SAME PRICE \*\*\* PRICE TO INCLUDE ALTERATIONS:**

Alterations to include: hemming of pants, sewing of patches, changing buttons, and adjusting waists; not to include vanity alterations, such as tapering shirts, pants or jackets.

**Firefighter Class A Uniform shall include the following:**

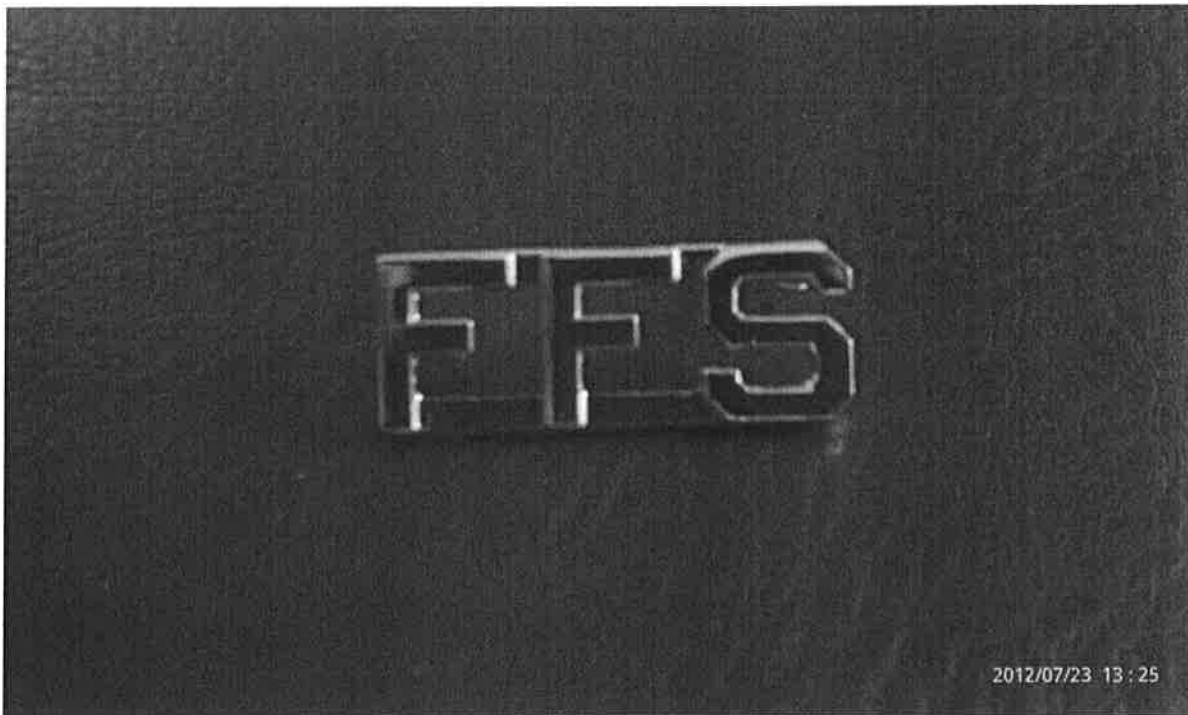
1. Epaulets on coat: Large CFD Silver (See pictures)
2. Name tag: initial, last name
3. Left CFD shoulder patch
4. Silver badge (see picture)
5. Silver CFD buttons
6. Shirt white long or short sleeve to include CFD patch
7. Black socks
8. Black leather belt
9. Senior Firefighters wear same class b uniform with the following exceptions: FFS brass worn on both shirt and jacket. (see additional pictures)



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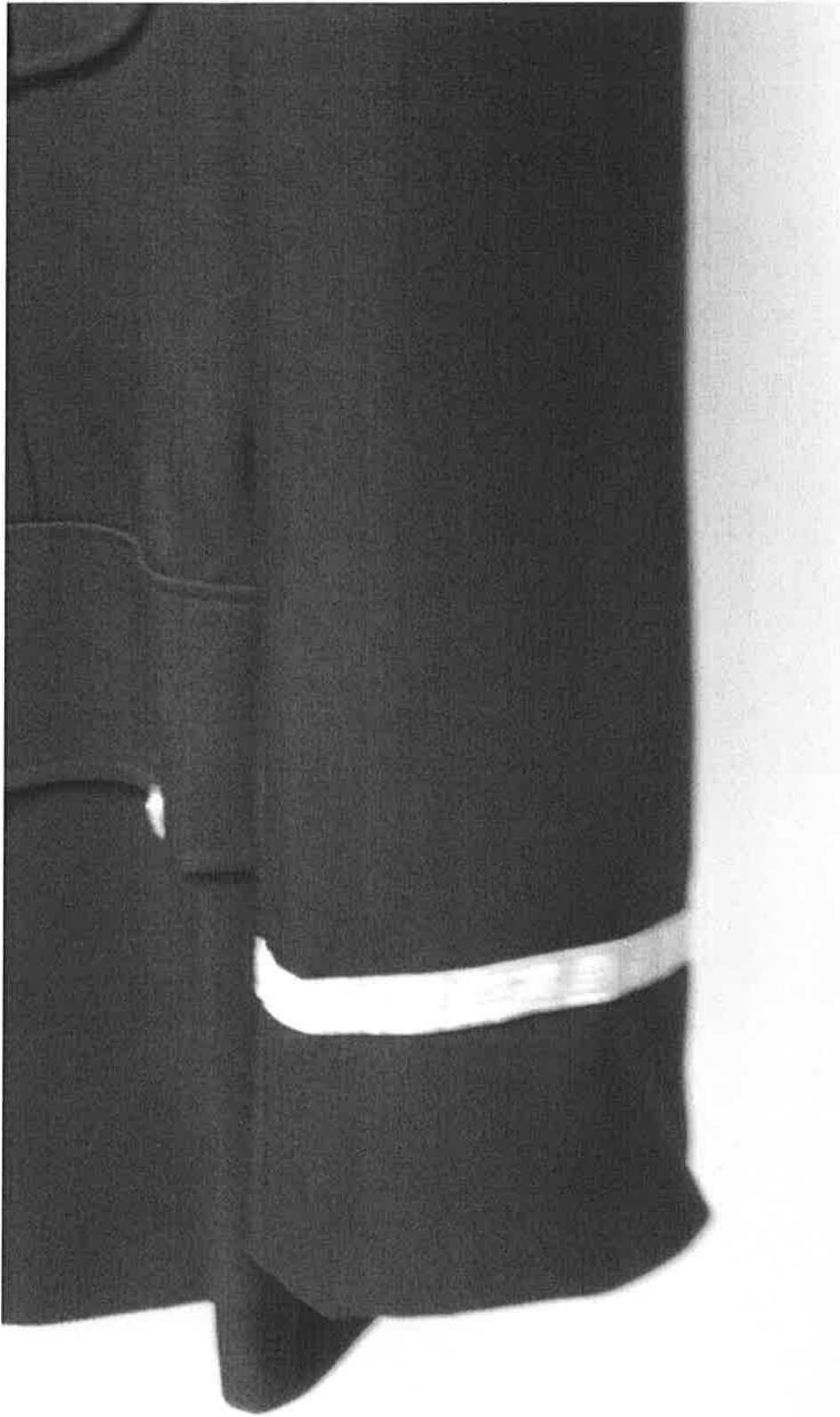
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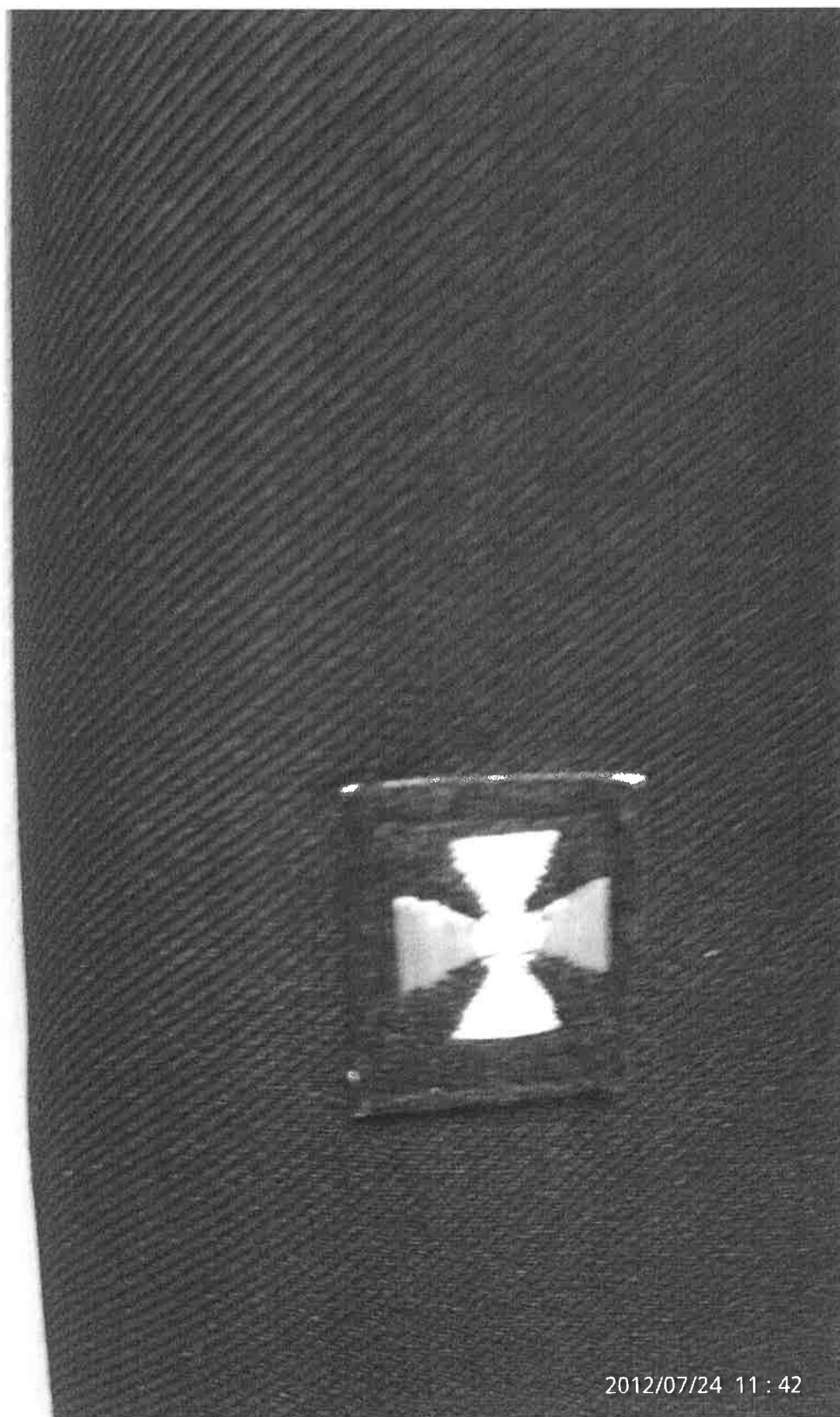


**Lieutenants Class A Uniforms are the same as the Firefighter uniform with the follow exceptions:**

1. Silver badge 1 bugle
2. Shirt collar has 1 silver bugle on collar
3. Left sleeve **may** contain silver sew on maltese signifying 5 years of service.
4. One half inch silver band circles the sleeve
5. (See pictures below)

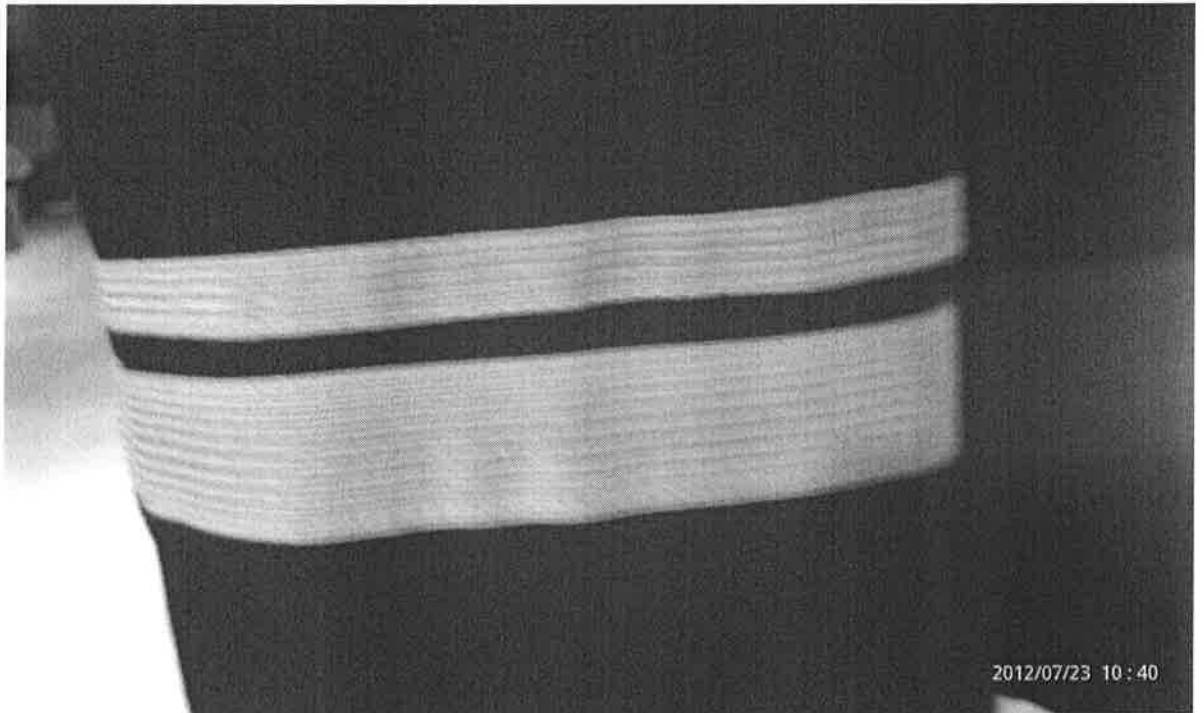






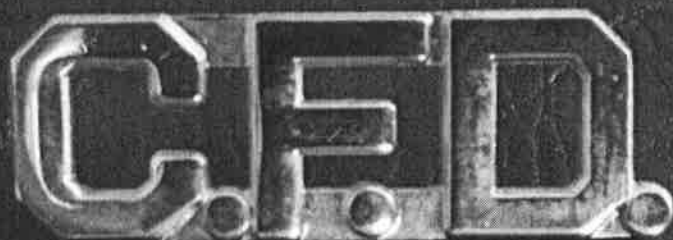
**Class A Captains uniforms are the same as Lieutenants with the following exceptions:**

1. All buttons are gold
2. The badge is gold containing two bugles
3. The right sleeve has two half inch gold bands that circle the sleeve.
4. The name tag is gold.
5. The maltese is also gold
6. Shirt collar brass has two gold bugles
7. See pictures





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## **CHATTANOOGA FIRE DEPARTMENT DRESS PANTS UNIFORM SPECIFICATIONS**

### **MODEL NUMBER:**

Fechheimer Brothers Company Dress Pants #38200 or equivalent (colors must match what we currently use)

### **FABRIC:**

100% Textured Polyester Serge Weave. 11.75 oz/Linear Yard (60-61" width) Grab Tensile: 154 lbs. Warp -173 lbs. Fill. Tongue Tear: 141bs. Warp -12 lbs. Fill fabric shall incorporate a permanent washable and dry cleanable moisture transport/soil release finish. Color: Navy Blue

### **DESIGN:**

Trouser shall be manufactured from a men's uniform trouser pattern. The trouser styling shall incorporate a plain front, two (2) quarter top front pockets, and two (2) hip pockets. Trouser to be straight leg style.

### **POCKETING:**

The pocketing shall be 70% Polyester/30% Cotton, 2.9 oz. Per square yard (60" width) with a minimum 78 x 64 count. Pocketing must have a durable press finish and the color of the pocketing must be black.

### **POCKET DESIGN:**

The two (2) front pockets will be quarter top style with a minimum opening of 6" and a minimum depth of 5-3/4" measured from the bottom of the opening. Front pockets to have straight bartacks (use of triangle bartacks will be cause for rejection) at the top and bottom of pocket openings. Pockets shall be constructed using the stitch, turn, and topstitch method. Pocket facings to be made of the basic fabric and must measure a minimum of 3" in width at the top.

The two (2) hip pockets shall have a minimum opening of 5-1/2" and a minimum depth of 5-3/4" measured from the bottom of the pocket opening. Hip pockets shall be constructed using the double welt method on a REECE PW Machine. The welts shall be finished in such a manner that there is no topstitching (topstitched hi pocket welts shall be cause for rejection). The corners of the hip pocket openings shall have firm straight bartacks for reinforcement (triangle bartacks are unacceptable). Hip pocket facings to be made of basic fabric and have a minimum depth of 1/2". The left hip pocket shall have a centered tab made of basic cloth inserted into the top welt with bartacks at the top and bottom of the tab to form an opening for a button. A button shall be located below the bottom welt corresponding in location with the tab.

### **WAISTBAND:**

The waistband shall be constructed using the "closed method" and shall measure 2" wide when finished. The waistband curtain is to be made of the same fabric and color as the pocketing material and shall be

attached to the trouser with a Rocap Machine. The waistband must contain  $\frac{1}{2}$ " wide Ban-Rol to prevent roll over and have three (3) strand Snugtex to keep shirts tucked in. The waistband closure shall be accomplished with a crush-proof hook and eye. The hook and eye shall be reinforced with stays made of non-woven fabric that are anchored by the topstitching for the fly facing and curtain. This topstitching must be to the top of the waistband. The waistband must be topstitched  $\frac{1}{16}$ " below the waistband seam for added strength.

**FLY:**

Trouser shall have a metal memory lock zipper. There shall be a French Fly tab closure on the inside of the right fly. The tab shall be double ply made of the basic cloth (tabs made of pocketing material or a "grown on" French Fly will be cause for rejection). The right fly shall be lined with the same fabric as the waistband curtain and pocketing. The fly lining shall be sewn to the left fly below the zipper in a neat and durable manner. A button shall be located on the left fly corresponding with the French Fly tab to provide a clean and comfortable closure. There shall be a firm straight bartack at the bottom of the fly going through the zipper tape.

**BELT LOOPS:**

There shall be a minimum of seven belt loops  $\frac{1}{2}$ " in width of double thickness. Each loop must have a non-woven interlining. All loops (except for the back center loop) must be sewn into the bottom of the waistband (dropped" belt loops are cause for rejection) and the top of the belt loops shall be caught into the waistband curtain seam with a Rocap machine. The bottom of the center back loop shall be tacked to the trouser and the top of the loop tacked to the outside of the waistband.

**SEAT:**

Seat outlet to measure a minimum of 2-3/4" to allow for alterations. Seat must be sewn with a Tandem Needle Machine.

**STITCHING, PRESSING & FINISHING:**

Trouser must be stitched with matching thread and all stitching to show must be 10-11 stitches per inch. Trouser must be neatly pressed on Hothead Presses and properly shaped. Outseams and inseams must be cleaned and finished to eliminate loose threads.

**LABELS:**

Trouser must have a care label permanently affixed that also indicates the size. A paper ticket showing the size, fabric content, cut number, and WPL number must be on the outside of the waistband. Garment must be made in the United States of America and bear a union label.



**STOCK SIZES:**

Trouser must be available from stock  
in the following sizes:

Regular rise:	28 54 (Even sizes only above 38)
Long rise:	32 42 (Even sizes only)
Short rise:	28 40 (Even sizes only)

**CHATTANOOGA FIRE DEPARTMENT DRESS SHIRT UNIFORM LONG SLEEVE SPECIFICATIONS****MODEL NUMBER:**

Elbeco Paragon Plus or equivalent

**FABRIC:**

Horace Small "3D" stretch poplin with micro comfort finish. 4-1/2 oz. Square yard. 65% Dacron Polyester/35% Combed with 9-11% filling stretch to enhance comfort and mobility. Protected by licensed Scotchgard meeting 3M test standard.

**CREASING:**

Pockets, pocket flaps, collar band and shoulder straps to be die creased to give uniform shape and size. The two military creases in front and three in back of each shirt must incorporate a permanent modified silicone crease produced by the "Lintrak System".

**FRONT:**

Left front to have a self-fabric center pleat 1-1/2" wide extending from collar band to bottom of shirt. It shall have 2 rows of stitching 7/8" apart. The center pleat to be lined with 100% Polyester. A selflined button stand 7/8" wide shall be placed on the right side and extend from collar band to bottom of shirt. There shall be six front and one collar button. Metal Button Feature.

**COLLAR:**

To be die cut. The back of the stand is to measure 1-1/2". The points are to be 2-7/8" in length and top stitched 1/4" from edge. The interlinings are to be 100% Polyester, 250 Denier. The inside collar band will be of self-goods, cut in filling direction to enhance stretch properties. Permanent collar stays of proper length are to be sewn inside collar so that no stitches are made through the bottom leaf. The stand shall fasten with one button.

**YOKE:**

Two ply yoke of self-goods in filling direction to enhance stretch. Yoke shall measure approximately 2-3/4" at bottom center of band and 2-1/2" at outside edge of yoke. 1/16" topstitch.

**SLEEVES:**

Each sleeve shall have 2 plackets, 1-1/4" wide both top and bottom, with one button placed on the placket approximately 2-1/2" above the top of the cuff. Sleeve setting and closing shall be done with an overedge and safety stitch. Cuffs to close with 2 buttons and buttonholes, be 2-7/8" wide and have 114" topstitching on the edge. They shall be lined with woven, unbleached 100% Cotton interlining.

**POCKETS:**

Two breast pockets finishing 5-3/8" wide and 5-3/4" long to have mitered corners. Both pockets shall have a 1-1/2" box pleat stitched top and bottom to prevent spreading. Left pocket to have sewn through pencil opening 1-3/8" wide. Velcro 3/8" wide and 1" long to be placed on each pocket to secure Velcro placed on each flap.

**FLAPS:**

To be die cut, creased and scalloped, finishing 5-1/2" in width, 2-3/4" in length at the center and 2 1/2" at each side. Flaps to be placed 1/4" above the top of each pocket and have one centered buttonhole with button. The left flap to have a pencil opening 1-3/8" in width. Velcro 3/8" wide and 1" long to be placed on edges of each flap to secure Velcro to placed on pockets. Flaps to be lined with crease "n" tack interlining.

**BADGETAB:**

Inside sling type of self-goods approximately 1" wide to extend from joining seam to pocket of left front. To have two small, uncut buttonholes 1-1/4" apart with lower buttonhole approximately 1" above the flap.

**SHOULDER STRAPS:**

To be sewn into sleevehead seam and measure, approximately 1-7/8" tapering to 1-1/2" with end pointed. Straps to be set approximately 1" from the collar seam. They shall be box stitched to shoulders with a row of cross-stitching 2" from sleeve head and diagonally sewn from each end of the seam to the sleeve.

Shoulder straps are to be die cut, creased and lined with crease "n" tack.

**SHIRT LABELING:**

Each garment will be identified by permanent size, lot number, cut number, fiber content, WPL and care instructions labeling.

**BUTTONS:**

To be a melamine button dyed to match the fabric color. 20ligne.

**METAL BUTTON FEATURE:**

Shirts are made to accept metal buttons on the shoulder straps, fronts, pocket flaps and cuffs. The right front on these shirts is to have an approximate 1-1/2" turn-back. Six front buttons to be 22 ligne.

**PACKING:**

Shirts to be polybagged individually.

**WARRANTY:**

Each shirt shall be warranted against fabric or workmanship defects for one full year.

**PRICE TO INCLUDE SEWING ON OF NAME TAG, PATCHES, PATCH BADGES****CHATTANOOGA FIRE DEPARTMENT DRESS SHIRT UNIFORM SHORT SLEEVE SPECIFICATIONS****MODEL NUMBER:**

Elbeco Paragon Plus or equivalent

**FABRIC:**

Horace Small "3D" stretch poplin with micro comfort finish. 4-1/2 oz. Square yard 65% Dacron Polyester/35% Combed Cotton with 9-11% filling stretch to enhance comfort and mobility. Protect by licensed Scotch guard meeting 3M test standards.

**CREASING:**

Pockets, pocket flaps and shoulder straps to be die creased to give uniform shape and size. The two military creases in front and three in back of each shirt must incorporate a permanent modified silicone crease produced by the "Lintrak System".

**FRONT:**

Left front to have a self-fabric center pleat 1-1/2" wide with an approximate 3" turnback extending from collar to bottom of shirt. It shall have two rows of stitching 7/8" apart. The center pleat shall be lined with 100% Polyester. Right front to have an approximate 3" turnback extending from collar to bottom of shirt. The right front shall have 7 buttons.

**COLLAR:**

To be die cut. Convertible collar is to measure approximately 2-7/8" long at points and to be topstitched 1/4" from edge. The interlinings are to be 100% Polyester, 250 Denier. Permanent collar stays of proper length are to be sewn inside collar so that no stitches are made through the bottom leaf.

**YOKE:**

Two ply yoke of self-good in filling direction to enhance stretch. Yoke shall measure approximately 2-3/4" at bottom center of collar and 21/2" at outside edge of yoke. 1/16" topstitch.

**SLEEVES:**

Sleeves are to be one piece, have a 7/8" hem and finish 9-1/2" to 9-3/4" long from the shoulder seam. Sleeve setting and closing shall be done with an overedge and safety stitch. The sleeve is to be bartacked at the hem.

**POCKETS:**

Two breast pockets finishing 5-3/8" wide and 5-3/4" long to have mitered corners. Both pockets shall have a 1-1/2" box pleat stitched top and bottom to prevent spreading. Left pocket to have a sewn through pencil opening 1-3/8" wide. Velcro 3/8" wide and 1" long to be placed on each pocket to secure Velcro placed on each flap.

**FLAPS:**

To be die cut, creased and scalloped, finishing 5-1/2" in width, 2-3/4" in length at the center and 21/2" at each side. Flaps to be placed Y4" above the top of each pocket and have one centered buttonhole with button. The left flap to have a pencil opening 1-3/8" in width. Velcro 3/8" wide and 1" long to be placed on edges of each flap to secure Velcro placed on pockets. Flaps to be lined with crease en' tack interlining.

**BADGE TAB:**

Inside sling type of self-goods approximately 1" wide to extend from joining seam to pocket of left front. To have two small, uncut buttonholes 1-1/4" apart with the lower buttonhole approximately 1" above the flap.

**SHOULDER STRAPS:**

To be sewn into sleevehead seam and measure approximately 1-7/8" tapering to 1-1/2" with end pointed. Straps to be set approximately 1" from the collar seam. They shall be box stitched to shoulders with a row of cross-stitching 2" from sleeve head and diagonally sewn from each end of the seam to the sleeve. Shoulder straps are to be die cut, creased and lined with crease en' tack.

**SHIRT LABELING:**

Each garment will be identified by permanent size, lot number, cut number, fiber content, WPL and care instructions labeling.

**BUTTONS:**

To be melamine button-dyed to match the fabric color. 20 ligne.

**METAL BUTTON FEATURE:**

Shirts are made to accept metal buttons on the shoulder straps, fronts, and pocket flaps. Five front buttons to be 22 ligne.

**PACKING:**

Shirts to be poly bagged individually.

**WARRANTY:**

Each shirt shall be warranted against workmanship or fabric defects for one full year.

**PRICE TO INCLUDE SEWING ON OF NAME TAG, PATCHES & PATCH BADGES****BUTTONS:**

To be melamine button-dyed to match the fabric color. 20 ligne.

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Shirts are made to accept metal buttons on the shoulder straps, fronts, and pocket flaps. Five front buttons to be 22 ligne.

**PACKING:**

Shirts to be polybagged individually.

**WARRANTY:**

Each shirt shall be warranted against workmanship or fabric defects for one full year.

**PRICE TO INCLUDE SEWING ON OF NAME TAG, PATCHES & PATCH BADGES**

**CHATTANOOGA FIRE DEPARTMENT UNIFORM SPECIFICATIONS**

**UNIFORM CAPS:**

Bell Crown Cap made with Haircloth side stiffening. Firefighter cap comes with standard band. Lieutenant cap comes with metal expansion cap strap, Nickel. Captain cap comes with metal expansion cap strap, Gold. Staff Officer Cap has white vinyl top and band covering of Gold.

**See attachment.**

**DRESS SHOES:**

Black plain toe, shiny, military style shoes with regular heel and toe.

Black shoestrings, Style #8316017 Thoroughgood or equal.

**STATION SHOES:**

Sport type for station wear. Black leather with plain toe or equal. Style Rocky #2025 & Magnum Midnite Plus II size zip style #8202 or equal.

**UNIFORM BELT:**

Black leather belt at least 1-3/4" wide with gold or silver Garrison style buckle or equal.

**UNIFORM TIE:**

Tie, approximately 3-1/4" wide, Navy (dark blue) tie, uniform type, clip on, Polyester.

**NAME TAGS:**

Name tag to be silver or gold with pin back, black letters, metal. Price to include engraving.

**C.F.D. BARS:**

C.F.D. Bars are to be silver or gold with pin back, black letters, and metal. Price to include engraving.

**BADGES:**

Hat, Coat, and shirt badges for Firefighter, Lieutenant, Captain, Fire Prevention, Chief and Retired Firefighter. Nickel finish or Gold finish.

**See attachment.**

**BADGE/LD. CASE:**

Badge LD. case, color black with blue felt insert for badge protection Bifold. Right side holds badge. Left side holds I.D. card, clear cover. Wallet size.

Chattanooga Fire Department Caps  
Firefighter





The Chattanooga Fire Department Cap  
Captain Cap (Gold band)



The Chattanooga Fire Departments Lieutenant Cap (silver band)



Captains/Staff Officer Cap



Assistant Chief/Deputy Chief Cap



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Some badges may only show one picture but there are three badges for each rank (Coat shirt and hat all badges except Fire Chief, Deputy Chief, Assistant Chief Battalion Chief and Captain shall be available in both silver and gold colors)

Private badges



Lieutenant Badges



Deputy Chief Badges



Assistant Fire Marshal badges



Fire Chief



Tact. Service Chief



Fire Investigator badge





Captains Badge



Resource Chief

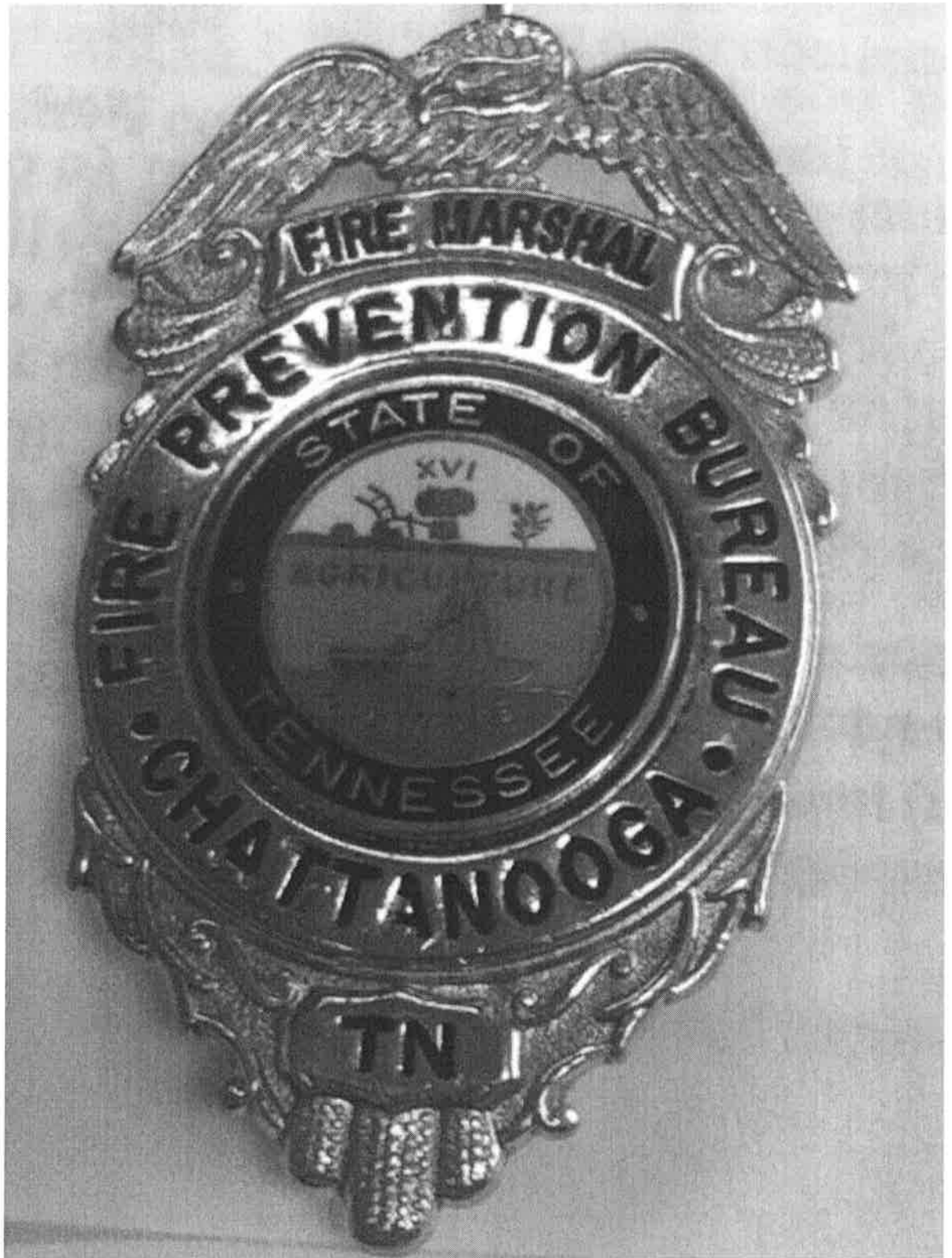




Battalion Chief



Fire Marshal





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## LADIES TROUSER SPECIFICATIONS

Flying Cross by Fechheimer Item: 98250 or equivalent

### FABRIC:

NAME: NOMEX<sup>®</sup> III A (SYNERGY<sup>®</sup>+) )

BLEND: 93% NOMEX / 5% KEVLAR / 2% P140

WEAVE: 2/1 TWILL

WEIGHT: 6.5 OSY +/- 5%

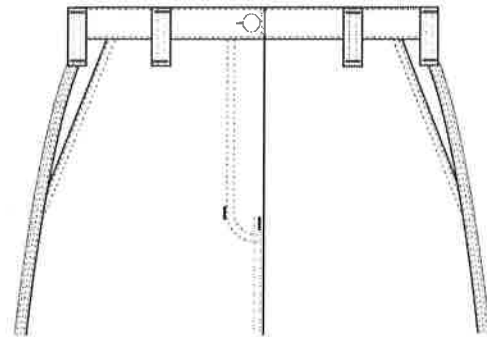
FINISH: FREEDOM<sup>®</sup> (STAIN RELEASE)

MILL: SPRINGS PROTECTIVE FABRICS SHADE:

MIDNIGHT NAVY, #10107Q

### DESIGN:

Trouser shall be manufactured from a ladies uniform trouser pattern. The trouser shall incorporate a plain front, two (2) quarter top front pockets and two (2) hip pockets. Trouser to be straight leg style.

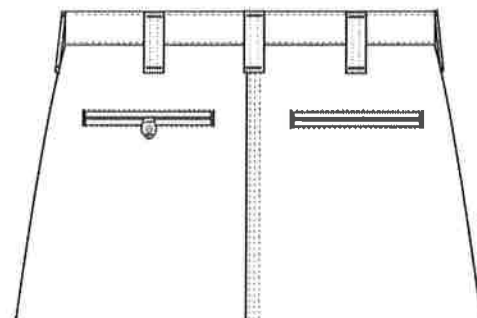


### POCKETING:

The pocketing shall be Nomex<sup>®</sup> III, 6.0 oz in weight.

### POCKET DESIGN:

The two (2) front pockets will be quarter top style with a minimum opening of 6" and a minimum depth of 5 3/4" measured from the bottom of the pocket opening. Pockets shall be constructed using the stitch, turn, and topstitch method. Pocket facings shall be made of the basic fabric and



shall measure a minimum of 3" in width. The bottom of the pocket shall have a 2 1/2" strip of FR **WearTUFF** Coating.

The two (2) hip pockets shall have a minimum opening of 5 1/2" and a minimum depth of 5 3/4" measured from the bottom of the pocket opening. Hip pockets shall be constructed using the double welt method on a REECE PW Machine and the welts shall be finished and topstitched top and bottom. The corners of the hip pocket openings shall be bartacked. The left hip pocket shall have a button and tab.

#### WAISTBAND:

The waistband shall be constructed with a continuous waistband and shall measure 1 1/2" wide when finished. The waistband curtain is to be made of Flamex<sup>®</sup>, 6.5 oz. black or navy and be reinforced internally with a 2 1/8" piece of Crown FR-510, non-fusible. The waistband curtain shall be attached to the trouser with a Rocap Machine and have two (2) strands of **Shirt-Grip**. The waistband closure shall be accomplished with a Flying Cross by Fechheimer Logo metal button with buttonhole. The waistband must be topstitched 1/16" top and bottom.

#### FLY:

Trouser shall have a fly zipper, consisting of solid brass hardware on colorfast Nomex<sup>®</sup> III 7/16" tape, chain size #44, and slider #5010/1. The left fly shall be constructed using the same fabric as the trouser. The fly lining shall be sewn to the right fly below the zipper in a neat and durable manner. The fly shall be constructed with 1/4" double stitching with two bartacks, one vertical at the bottom of the fly and one vertical 1" up, located on the outside seam.

#### LEGS:

All seams shall be finished with a Felled seam using 3-Needle type 401 Triple Chain stitching. The Felled seam is constructed by folding over and interlocking both fabric edges then the Triple needle chain stitching is sewn through all 4 layers.

#### CREASES:

The leg creases, front and back will have a silicone bead put in by using the **Lintrak<sup>®</sup>** process.

#### BELT LOOPS:

There shall be a minimum of seven (7) belt loops 3/4" in width of double thickness. Each loop must have a fusible interlining Crown FR-510. All loops must be "dropped" with the bottom and top of the belt loop tacked to the trouser.

#### THREAD:

All thread shall be Nomex<sup>®</sup> III size 30/3, dyed to match fabric.

### STITCHING:

All stitching will conform to Federal Standard 751a, Stitches, Seams and Stitching (FED-STD-751). Stitch types are as follows:

<u>Stitch Type</u>	<u>Description</u>
301	Lockstitch
401	Triple Chain Stitch
301 Tandem	Double Locked Stitch
504	Three Thread Over Edge Stitch

All stitch types are sewn at stitch per inch (S.P.I.) rates individually set by operation at not less than 10-12 S.P.I. to insure extended wear life. Stitch type 301 Tandem is used at a combined S.P.I. of 18.

All thread tension are evenly maintained to eliminate tight or loose stitching. All seam allowances are maintained so that there are no raw edges, run offs, twists, pleats, puckers, or open seams. All seam ends secured by other seams and/or bartacked no less than 1/4". Stitching line ends overlapped not less than 1/2". Thread breaks overstitched at least 1/2" on either end of break.

### LABELS:

The following labels will be permanently attached to the trouser:

1. **NFPA Compliance**
2. **Style Number, Content, Care & Warnings** - Inside, attached to outside of right front pocket.
3. **Flame Resistant Indicator** - will be attached to the bottom of right hand belt loop, located above right rear pocket.

Detachable hang tag attached showing ISO 9001 Registration, warranty information and maintenance information.

### FINISHING:

Trouser must be neatly pressed on Hothead presses, properly shaped, and fully autoclaved for enhanced permanent press appearance following the approved procedure for Nomex<sup>®</sup> III.

### NFPA COMPLIANCY:

Trouser will be compliant with NFPA Standard 1975, 2009 EDITION.

THIRD PARTY CERTIFICATION:

Trouser will be certified by Underwriters Laboratories, Inc. to comply with NFPA 1975, 2009 EDITION and the specifications that are set forth by the manufacturer.

STOCK SIZES:

Trouser will be available in the following stock sizes and a label temporarily sewn to outside of trouser to indicate waist size.

REGULAR RISE: 2-26 (EVEN)

SIZING:

SIZE	02	04	06	08	10	12	14	16	18	20
WAIST	28 $\frac{3}{4}$	29 $\frac{3}{4}$	30 $\frac{3}{4}$	31 $\frac{3}{4}$	32 $\frac{3}{4}$	34 $\frac{3}{4}$	36 $\frac{3}{4}$	38 $\frac{3}{4}$	40 $\frac{3}{4}$	42 $\frac{3}{4}$
SEAT	37	38	39	40	41	43	45	47	49	51
RISE	8 $\frac{1}{4}$	8 $\frac{3}{8}$	8 $\frac{1}{2}$	5 $\frac{5}{8}$	8 $\frac{3}{4}$	9	9 $\frac{1}{4}$	9 $\frac{1}{2}$	9 $\frac{3}{4}$	10
THIGH	24 $\frac{1}{2}$	25	25 $\frac{1}{2}$	26	26 $\frac{1}{2}$	27 $\frac{1}{2}$	28 $\frac{1}{2}$	29 $\frac{1}{2}$	30 $\frac{1}{2}$	31 $\frac{1}{2}$
KNEE	19 $\frac{1}{2}$	19 $\frac{3}{4}$	20	20 $\frac{1}{4}$	20 $\frac{1}{2}$	21	21 $\frac{1}{2}$	22	22 $\frac{1}{2}$	23
BOTTOM	18 $\frac{1}{4}$	18 $\frac{3}{8}$	18 $\frac{1}{2}$	18 $\frac{5}{8}$	18 $\frac{3}{4}$	19	19 $\frac{1}{4}$	19 $\frac{1}{2}$	19 $\frac{3}{4}$	20

SIZING:

SIZE	22	24	26
WAIST	44 $\frac{3}{4}$	46 $\frac{3}{4}$	48 $\frac{3}{4}$
SEAT	53	55	57
RISE	10 $\frac{1}{4}$	10 $\frac{1}{2}$	10 $\frac{3}{4}$
THIGH	32 $\frac{1}{2}$	33 $\frac{1}{2}$	34 $\frac{1}{2}$
KNEE	23 $\frac{1}{2}$	24	24 $\frac{1}{2}$
BOTTOM	20 $\frac{1}{4}$	20 $\frac{1}{2}$	20 $\frac{3}{4}$

MEN'S TROUSER SPECIFICATIONS

Flying Cross by Fechheimer Item: 98200 or equivalent

FABRIC:

NAME: NOMEX<sup>®</sup> III A (SYNERGY<sup>™</sup>+) )

BLEND: 93% NOMEX / 5% KEVLAR / 2% P140

WEAVE: 2/1 TWILL

WEIGHT: 6.5 OSY +/- 5%



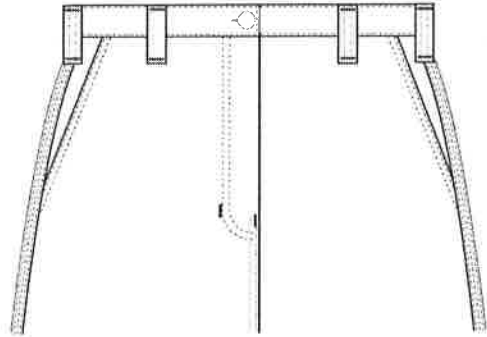
FINISH: FREEDOM<sup>®</sup> (STAIN RELEASE)

MILL: SPRINGS PROTECTIVE FABRICS SHADE:

MIDNIGHT NAVY, #10107Q

DESIGN:

Trouser shall be manufactured from a men's uniform trouser pattern. The trouser shall incorporate a plain front, two (2) quarter top front pockets and two (2) hip pockets. Trouser to be straight leg style.



POCKETING:

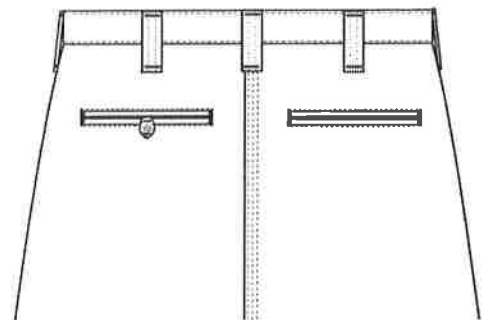
The pocketing shall be Nomex<sup>®</sup> III, 6.0 oz in weight.

WAISTBAND:

The waistband shall be constructed with a continuous waistband and shall measure 1 ½" wide when finished. The waistband curtain is to be made of Flamex<sup>®</sup>, 6.5 oz. black or navy and be reinforced internally with a 2 1/8" piece of Crown FR-510, non-fusible. The waistband curtain shall be attached to the trouser with a Rocal Machine and have two (2) strands of **Shirt-Grip**. The waistband closure shall be accomplished with a Flying Cross by Fechheimer Logo metal button with buttonhole. The waistband must be topstitched 1/16" top and bottom.

POCKET DESIGN:

The two (2) front pockets will be quarter top style with a minimum opening of 6" and a minimum depth of 5 3/4" measured from the bottom of the pocket opening. Pockets shall be constructed using the stitch, turn, and topstitch method. Pocket facings shall be made of the basic fabric and shall measure a minimum of 3" in width. The bottom of the pocket shall have a 2 1/2" strip of FR **WearTUFF** Coating.



The two (2) hip pockets shall have a minimum opening of 5 1/2" and a minimum depth of 5 3/4" measured from the bottom of the pocket opening. Hip pockets shall be constructed using the double welt method on a REECE PW Machine and the welts shall be finished and topstitched top and bottom. The corners of the hip pocket openings shall be bartacked. The left hip pocket shall have a button and tab.

#### FLY:

Trouser shall have a fly zipper, consisting of solid brass hardware on colorfast Nomex<sup>®</sup> III 7/16" tape, chain size #44, and slider #5010/1. The left fly shall be constructed using the same fabric as the trouser. The fly lining shall be sewn to the right fly below the zipper in a neat and durable manner. The fly shall be constructed with ¼" double stitching with two bartacks, one vertical at the bottom of the fly and one vertical 1" up, located on the outside seam.

#### LEGS:

All seams shall be finished with a Felled seam using 3-Needle type 401 Triple Chain stitching. The Felled seam is constructed by folding over and interlocking both fabric edges then the Triple needle chain stitching is sewn through all 4 layers.

#### CREASES:

The leg creases, front and back will have a silicone bead put in by using the Lintrak<sup>®</sup> process.

#### BELT LOOPS:

There shall be a minimum of seven (7) belt loops 3/4" in width of double thickness. Each loop must have a fusible interlining Crown FR-510. All loops must be "dropped" with the bottom and top of the belt loop tacked to the trouser.

#### THREAD:

All thread shall be Nomex<sup>®</sup> III size 30/3, dyed to match fabric.

#### STITCHING:

All stitching will conform to Federal Standard 751a, Stitches, Seams and Stitching (FED-STD-751). Stitch types are as follows:

<u>Stitch Type</u>	<u>Description</u>
301	Lockstitch
401	Triple Chain Stitch
301 Tandem	Double Locked Stitch
504	Three Thread Over Edge Stitch

All stitch types are sewn at stitch per inch (S.P.I.) rates individually set by operation at not less than 10-12 S.P.I. to insure extended wear life. Stitch type 301 Tandem is used at a combined S.P.I. of 18.

All thread tension are evenly maintained to eliminate tight or loose stitching. All seam allowances are maintained so that there are no raw edges, run offs, twists, pleats, puckers, or open seams. All seam ends secured by other seams and/or bartacked no less than 1/4". Stitching line ends overlapped not less than 1/2". Thread breaks overstitched at least 1/2" on either end of break.

LABELS:

The following labels will be permanently attached to the trouser:

1. **NFPA Compliancy**
2. **Style Number, Content, Care & Warnings** - Inside, attached to outside of right front pocket.
3. **Flame Resistant Indicator** - will be attached to the bottom of right hand belt loop, located above right rear pocket.

Detachable hang tag attached showing ISO 9001 Registration, warranty information and maintenance information.

FINISHING:

Trouser must be neatly pressed on Hothead presses, properly shaped, and fully autoclaved for enhanced permanent press appearance following the approved procedure for Nomex<sup>®</sup> III.

NFPA COMPLIANCY:

Trouser will be compliant with NFPA Standard 1975, 2009 EDITION.

THIRD PARTY CERTIFICATION:

Trouser will be certified by Underwriters Laboratories, Inc. to comply with NFPA 1975, 2009 EDITION and the specifications that are set forth by the manufacturer.

STOCK SIZES:

Trouser will be available in the following stock sizes and a label temporarily sewn to outside of trouser to indicate waist size.

REGULAR RISE:	28-38 (EVERY)
	40-56 (EVEN)

SIZING:

WAIST	28	29	30	31	32	33	34	35	36	37
SEAT	38	39	40	41	42	43	44	45	46	47
FRONT RISE	8 ¼	8 3/8	8 ½	5 5/8	8 ¾	8 7/8	9	9 1/8	9 ¼	9 3/8
THIGH	26 ½	27	27 ½	28	28 ½	29	29 ½	30	30 ½	31

KNEE	19 1/2	19 3/4	20	20 1/4	20 ½	20 3/4	21	21 1/4	21 ½	21	3/4	BOTTOM
	18 3/4	18 7/8	19	19 1/8	19 1/4	19 3/8	19 1/2	19 5/8	19 3/4	19 7/8		

SIZING:

WAIST	38	40	42	44	46	48	50	52	54
SEAT	48	50	52	54	56	58	60	62	64
FRONT RISE	9 ½	9 3/4	10	10 1/4	10 1/2	10 3/4	11	11 1/4	11 1/2
THIGH	31 1/2	32 1/2	33 1/2	34 1/2	35 1/2	36 1/2	37 1/2	38 1/2	39 1/2

KNEE	22	22 1/2	23	23 1/2	24	24 1/2	25	25 1/2	26
BOTTOM	20	20 1/4	20 1/2	20 3/4	21	21 1/4	21 1/2	21 3/4	22

### WOMEN'S SHIRT SPECIFICATIONS

Flying Cross by Fechheimer Item: 9830 or equivalent

#### FABRIC:

Content: Nomex

IIIA Weight:

4.5 oz. / linear yard

COLOR: Navy Blue

#### STYLE:

To be Flying Cross Model 9830. Dress style, top center placket front with hidden snap closure, full cut tapered fit, banded collar, long sleeves with square cuffs, and dress shirttail. Two pointed breast pockets with topstitched pointed flaps. Topstitched shoulder straps. Back to have double yoke of shirting material 3/4" double needle topstitched. Work wear industrial style shirt construction is unacceptable and shall be cause for rejection.

#### COLLAR & STAND:

Collar points to measure 2-7/" long with ultrasonically fused-in Mylar stays. Collar to have woven interlining of #250 Dacron. Stays to be 2 1/2" long, 3/8" minimum width, and to be fused to under side of collar interlining. Stays applied directly to collar material itself unacceptable. Collar height at rear 1-1/2". Collar topstitched 1/4" off the edge. Collar stand to measure 1-5/16" at rear and band to be interlined with "Crease-N- Tack." Collar stand to close with single button and buttonhole. Collar material itself (top or underside) shall have no fusing to Mylar stays or collar interlining.

#### FRONT:

The right front shall have top center placket 1-1/2" wide with two double rows of stitches 7/8" apart. The shirt shall have 5 snaps concealed by the placket with 5 well sewn buttons attached to the top center placket; spaced 3 1/2" apart except the spacing between the neck button and first button on the front, which will be approximately 3". Top center placket to have woven interlining of #250 Dacron. Non-woven interlining unacceptable and shall be cause for rejection. The fronts shall be joined to the yoke so that both raw edges of the yoke are turned under, with the front sandwiched between, and then all three are stitched down with a 1/16" raised stitch. Safety stitch joining unacceptable.

#### SHOULDER STRAPS:

Shoulder straps to be two-piece pointed, 1/8" topstitched and to be set on yoke with leading topstitch conforming with front joining seam. To measure 2" at sleeve tapering to 1-3/8" and set not more than 1/2" from collar set seam. Cross-stitched approximately 2" from sleeve seam. Shoulder strap interlined with #250 Dacron. No buttonhole in shoulder straps. Buttons to be sewn on top of shoulder strap, through the shoulder so that the point of the strap is held to the shoulder by the button. Edge stitched shoulder strap construction unacceptable.

#### POCKETS:

Two pointed breast pockets. Pocket to measure 5-1/4" wide, 6-1/8" deep at center point, 55/8" at sides. Breast pockets are set to shirtfront with 1/4" double needle stitching. Each pocket to have hook Velcro, 3/4" long by 1/2" wide, positioned on each edge of pocket to correspond with outer flap edges as specified. Velcro to be stitched all sides and to be sewn through pocket and shirt for added reinforcement.

#### FLAPS:

Two-piece pointed design to measure 5-1/2" across and 2-1/2" in depth at center point, 1-5/8" at sides. Secured to shirtfront approximately 3/8" above pocket. Left flap to have invisible pencil opening 1-1/2". (Stop & start stitching for pencil opening unacceptable and shall be cause for rejection.) Flaps to be 1/4" double needle topstitched. Flaps to have woven interlining of #250 Dacron. Creased and edge stitched pocket flap construction unacceptable. Under side of the flap to have looped Velcro 3/4" long by 1/2" wide stitched all sides, positioned on outer edges of both pocket flaps to secure with corresponding Velcro strips on shirt pocket. Each flap shall have a button centered on the sewn crease; no buttonhole in pocket flap.

#### SLEEVES:

Sleeve vent shall be a minimum of 4-1/2" long with a continuous facing.

#### CUFFS:

Two piece 1/2-inch hemmed cuff with 1/8" topstitching. Cuffs to measure 2-1/2" in depth with squared corners. Cuffs to have one female snap corresponding to two male snaps set horizontally on the cuff so cuff may be adjusted for fit. Cuffs to have woven interlining of #250 Dacron.

#### BUTTONS:

First grade 19-ligne pearlescent.

#### SEWING:

Collar to be 1/4" topstitched. Shoulder straps and cuffs to be 1/8" topstitched. Yoke, top center placket, pocket flaps and pocket to be 1/4" double needle topstitched. Sleeve inserting and side close felling seams are to be safety stitched.

#### THREAD:

All sewing threads to be color fast Nomex to match.

**INTERLININGS:**

Collar, cuffs, pocket flaps, shoulder straps and top center to be interlined with #250 Dacron. Collar band interlined with "Crease-N-Tack".

**MILITARY CREASES:**

There shall be five stitched-in sharp military creases on all shirts. One crease on each front to be centered vertically. Front creases shall be through pockets and flaps. Spacing for three military creases across shirt back to be proportionate to the size of the shirt.

**CONSTRUCTION:**

Collar, pocket flaps, cuffs and shoulder straps are made with conventional construction. Top ply, bottom ply and interlining are first stitched together, then turned right side out and finally topstitched.

**STOCK SIZES:**

Shirts must be available in the following sizes:

Bust Sizes 28-52 Long Sleeve Lengths:

28, 30 Regular = 30"

32, 34 Regular = 30" Long = 31"

36, 38 Regular = 31" Long = 32"

40, 42 Regular = 32" Long = 33"

44, 46 Regular = 33" Long = 34"

48 & Up Regular = 34" Long = 35"

**MEN'S SHIRT SPECIFICATIONS**

Flying Cross by Fechheimer Item: 9820 or equivalent

**FABRIC:**

Content: Nomex

IIIA Weight:

4.5 oz. / linear yard

**COLOR:**

Navy Blue

**STYLE:**

To be Flying Cross Model 9820. Dress style, top center placket front with hidden snap closure, full cut tapered fit, banded collar, long sleeves with square cuffs, and dress shirttail. Two pointed breast pockets with topstitched pointed flaps. Topstitched shoulder straps. Back to have double yoke of shirting material  $\frac{1}{4}$ " double needle topstitched. Work wear industrial style shirt construction is unacceptable and shall be cause for rejection.

**COLLAR & STAND:**

Collar points to measure 3" long with ultrasonically fused-in Mylar stays. Collar to have woven interlining of #250 Dacron. Stays to be 2  $\frac{3}{4}$ " long,  $\frac{3}{8}$ " minimum width, and to be fused to under side of collar

interlining. Stays applied directly to collar material itself unacceptable. Collar height at rear 1-1/2". Collar topstitched 1/4" off the edge. Collar stand to measure 15/16" at rear and band to be interlined with "Crease-N- Tack." Collar stand to close with single button and buttonhole. Collar material itself (top or underside) shall have no fusing to Mylar stays or collar interlining.

#### FRONT:

The left front shall have top center placket 1-1/2" wide with two double rows of stitches 7/8" apart. The shirt shall have 6 snaps concealed by the placket with 6 well sewn buttons attached to the top center placket; spaced 3 3/4" apart except the spacing between the neck button and first button on the front, which will be approximately 3-1/2". Top center placket to have woven interlining of #250 Dacron. Non-woven interlining unacceptable and shall be cause for rejection. The fronts shall be joined to the yoke so that both raw edges of the yoke are turned under, with the front sandwiched between, and then all three are stitched down with a 1/16" raised stitch. Safety stitch joining unacceptable.

#### SHOULDER STRAPS:

Shoulder straps to be two-piece pointed, 1/8" topstitched and to be set on yoke with leading topstitch conforming with front joining seam. To measure 2" at sleeve tapering to 1-3/8" and set not more than 1/2" from collar set seam. Cross-stitched approximately 2" from sleeve seam. Shoulder strap interlined with #250 Dacron. No buttonhole in shoulder straps. Buttons to be sewn on top of shoulder strap, through the shoulder so that the point of the strap is held to the shoulder by the button. Edge stitched shoulder strap construction unacceptable.

#### POCKETS:

Two pointed breast pockets. Pocket to measure 5-1/4" wide, 6-1/8" deep at center point, 55/8" at sides. Breast pockets are set to shirtfront with 1/4" double needle stitching. Each pocket to have hook Velcro, 3/4" long by 1/2" wide, positioned on each edge of pocket to correspond with outer flap edges as specified. Velcro to be stitched all sides and to be sewn through pocket and shirt for added reinforcement.

#### FLAPS:

Two-piece pointed design to measure 5-1/2" across and 2-1/2" in depth at center point, 1-5/8" at sides. Secured to shirtfront approximately 3/8" above pocket. Left flap to have invisible pencil opening 1-1/2". (Stop & start stitching for pencil opening unacceptable and shall be cause for rejection.) Flaps to be 1/4" double needle topstitched. Flaps to have woven interlining of #250 Dacron. Creased and edge stitched pocket flap construction unacceptable. Under side of the flap to have looped Velcro 3/4" long by 1/2" wide stitched all sides, positioned on outer edges of both pocket flaps to secure with corresponding Velcro strips on shirt pocket. Each flap shall have a button centered on the sewn crease; no buttonhole in pocket flap.

#### SLEEVES:

Sleeve vent shall be a minimum of 4-1/2" long with a continuous facing.

#### CUFFS:

Two piece 1/2-inch hemmed cuff with 1/8" topstitching. Cuffs to measure 3" in depth with squared corners. Cuffs to have one female snap corresponding to two male snaps set horizontally on the cuff so cuff may be adjusted for fit. Cuffs to have woven interlining of #250 Dacron.



**BUTTONS:**

First grade 19-ligne pearlescent.

**SEWING:**

Collar to be 1/4" topstitched. Shoulder straps and cuffs to be 1/8" topstitched. Yoke, top center placket, pocket flaps and pocket to be 1/4" double needle topstitched. Sleeve inserting and side close felling seams are to be safety stitched.

**THREAD:**

All sewing threads to be color fast Nomex to match.

**INTERLININGS:**

Collar, cuffs, pocket flaps, shoulder straps and top center to be interlined with #250 Dacron. Collar band interlined with "Crease-N-Tack".

**MILITARY CREASES:**

There shall be five stitched-in sharp military creases on all shirts. One crease on each front to be centered vertically. Front creases shall be through pockets and flaps. Spacing for three military creases across shirt back to be proportionate to the size of the shirt.

**CONSTRUCTION:**

Collar, pocket flaps, cuffs and shoulder straps are made with conventional construction. Top ply, bottom ply and interlining are first stitched together, then turned right side out and finally topstitched.

**STOCK SIZES:**

Shirts must be available in the following sizes:

XSMALL – 4XL

Alpha sleeve lengths: Short to finish 32"

Regular to finish 34" Long to finish 36"

**Maintenance and Supply polo shirts**

Men's 7 oz. 60% cotton/40% polyester short sleeve pique golf shirt with clean finished placket and three horn buttons. Features a hemmed bottom with side vents and a half-moon yoke. 2" extended tail.

All Colors: S | M | L | XL | 2XL | 3XL |  
4XL Extended Colors Sizes: 5XL | 6XL |  
LT | XLT | 2XLT | 3X

**Cotton Cargo Short**

**Fabric:** 8.5 oz. Twill, Pre-Cure Durable Press

**Blend:** 100% Cotton

**Care:** Industrial Wash

Available in all waist sizes.

**Specifications for the Tri- Mountain - Mountaineer Jacket model 8800**

The Chattanooga Fire Department would like to bid the Tri-Mountain 8800 black jacket. This is a brand specific item no substitutions will be allowed.

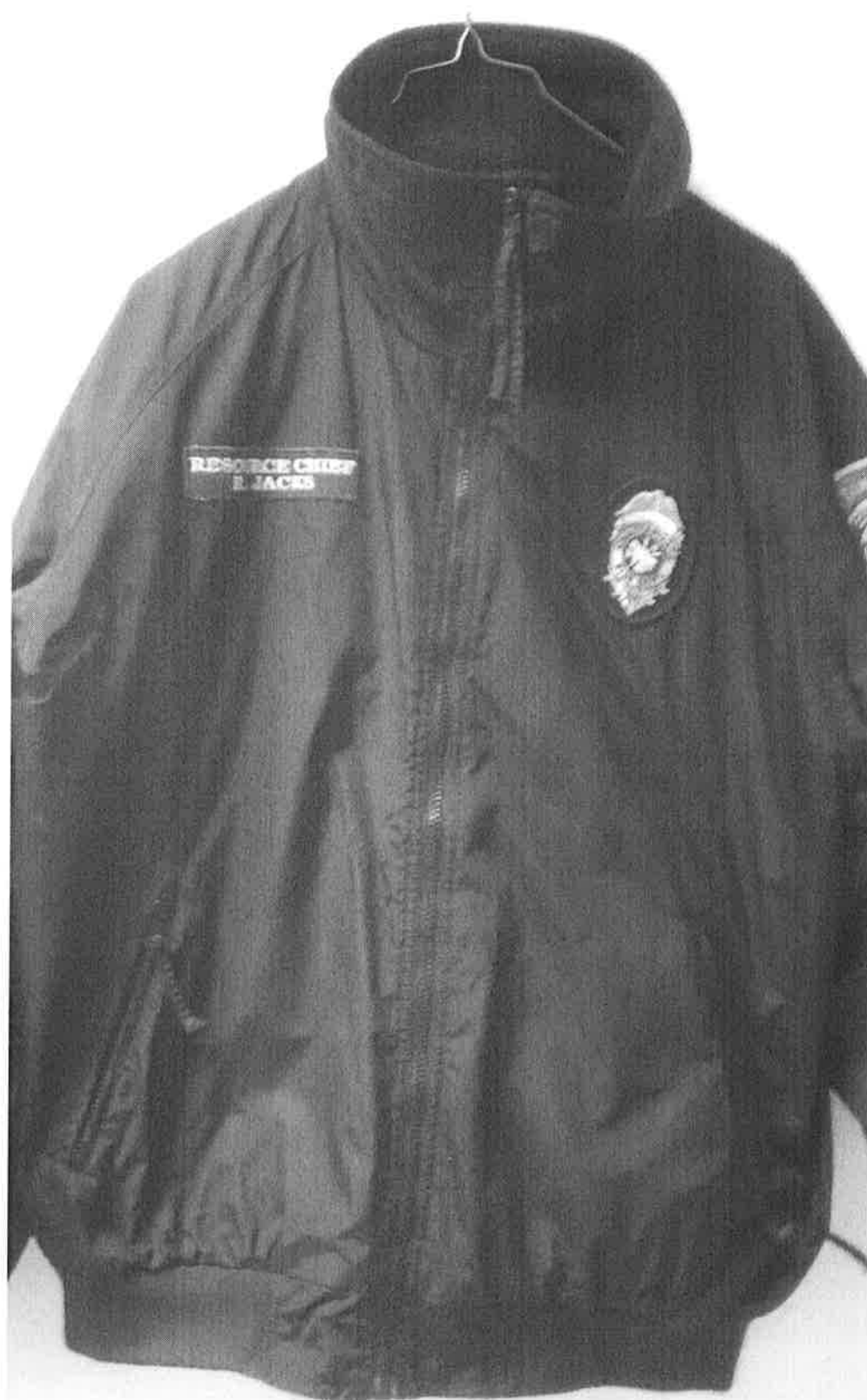
The successful bidder will supply the jacket with the following modifications all to be included in the price of the jacket:

The upper left chest shall have an embroidered firefighter badge sewn on. (The badge will be supplied by the Chattanooga Fire Department)

The upper left sleeve shall have the Chattanooga Fire Department patch sewn on. (The patch will be supplied by the Chattanooga Fire Department)

The upper right chest shall have a black name strip approximately 5 inches long and 1 inch wide. (The name strip shall be supplied by the successful bidder) This name tag shall match the color of the jacket and can contain either gold or silver embroidered letters depending on rank (Chiefs, Captains shall have gold letters all other shall have silver letters). The name strip shall have the name and rank of the Firefighter. First initial and last name will be acceptable.

Both the name strip and badge must be removable without damage occurring to the jacket.



## REQUIREMENTS FOR INSURANCE COVERAGE

The Contractor shall not commence work under these Contract Documents until he has obtained all insurance required herein nor shall the Contractor allow any Subcontractor to commence work on his subcontract until similar insurance required of the Subcontractor has been obtained by the Subcontractor. Insurance shall be placed by the Contractor with one or more insurance carriers licensed to do business in the State of Tennessee. Each insurance policy shall be renewed ten (10) days before the expiration date of the policy.

Certificates of insurance shall be filed with the City prior to commencement of the work. These certificates shall contain a provision that coverage's afforded under the policies will not be changed or canceled unless at least fifteen (15) days' written notice has been given to the city. The Contract shall not be binding upon the city until the insurance coverage required herein has been obtained and certificates have been filed with the City.

Adequate insurance coverage shall be maintained by the Contractor at all times. Failure to maintain adequate coverage shall not relieve the Contractor of any responsibilities or obligations under these Contract Documents. In the event any insurance coverage is canceled or allowed to lapse, the Contractor will not be permitted to prosecute the work until adequate and satisfactory insurance has been obtained and certificates of insurance furnished to the City. Failure to keep insurance policies in effect will not be cause for any claims for extension of time under these Contract Documents.

All such policies shall be subject to approval by the City Attorney. Should the City Attorney at any time in his sole discretion determine that the insurance policies and certificate provided may not be sufficient to protect the interests of the City because of the insolvency of the insurance company or otherwise, the Contractor shall replace such policies with policies meeting his approval.

The Contractor shall procure and maintain at his own expense, during the Contract Time, insurance as hereinafter specified:

Workmen's Compensation Insurance that shall protect the Contractor against all claims under applicable state workmen's compensation laws shall be maintained. The Contractor shall also be protected against claims for injury, disease or death of employees which, for any reason, may not fall within the provisions of a workmen's compensation law. This policy shall also include an endorsement providing coverage in all states in which work is performed. The Contractor shall require all the Subcontractors to provide similar Workmen's Compensation Insurance for all the Subcontractors' employees on the work unless such employees are covered by the protection afforded by the Contractor. The liability limits shall not be less than that required by statute.

General Public Liability and Property Damage Insurance that shall be written in comprehensive form and shall protect the Contractor against all claims arising from injuries including death, to members of the public or damage to property of others arising out of any act or omission of the Contractor or his agents, employees, or Subcontractors. In addition, this policy shall specifically insure the contractual liability assumed by the successful bidder to defend and indemnify the City of Chattanooga against such claims or suits.

To the extent that the work may require blasting, explosive conditions or underground operation, the comprehensive general public liability and property damage coverage shall contain no exclusion relative to blasting, explosion, collapse of buildings, or damage to underground property.

The comprehensive general public liability and property damage coverage shall also protect the Contractor against all claims resulting from damage to:

1. Private driveways, walks, shrubbery and plantings;
2. Public utility facilities; and
3. U.S. Government monuments.

The liability limits shall not be less than:

Bodily Injury	\$ 500,000 each person \$1,000,000 each occurrence
Property Damage	\$ 250,000 each occurrence \$ 500,000 aggregate

The general public liability and property damage insurance shall carry an endorsement in form satisfactory to the City to the effect that the Contractor shall save harmless the City from any claims and damage whatsoever, including patent infringement. General public liability and property damage insurance shall be kept in force at all times during the course of the work until such time as the work covered by these Contract Documents has been completed and accepted by the City.

Comprehensive Motor Vehicle Liability and Property Damage Insurance that shall be written in comprehensive form and shall protect the Contractor against all claims for injuries to members of the public and damage to property of others arising from the use of motor vehicles, and shall cover operation on or off the site of all motor vehicles licensed for highway use, whether they are owned, non-owned, or hired.

The liability limits shall not be less than:

Bodily Injury	\$ 250,000 each person \$ 500,000 each occurrence
Property Damage	\$ 100,000 each occurrence

### **Affirmative Action Plan**

The City of Chattanooga is an equal opportunity employer and during the performance of this Contract, the Contractor agrees to abide by the equal opportunity goals of the City of Chattanooga as follows:

1. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, or handicap. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, national origin, or handicap. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay, or other forms of compensation, and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin, or handicap.
3. The Contractor will send to each labor union or representative of workers with which he/she has a collective bargaining agreement or other contract or understanding, a notice advising the said labor union or workers' representatives of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. In all construction contracts or subcontracts in excess of \$10,000 to be performed for the City of Chattanooga, any contractor and/or subcontractor is further required to file in duplicate within ten (10) days of being notified that it is the lowest responsible bidder, an affirmative action plan with the EEO Director of the City of Chattanooga. This plan shall state the Contractor's goals for minority and women utilization as a percentage of the work force on this project.
5. This Plan or any attachments thereto shall further provide a list of all employees annotated by job function, race, and sex who are expected to be utilized on this project. This plan or attachment thereto shall further describe the methods by which the Contractor or Subcontractor will utilize to make good faith efforts at providing employment opportunities for minorities and women.

During the term of this contract, the Contractor upon request of the City, will make available for inspection by the City of Chattanooga copies of payroll records, personnel documents and similar records or documents that may be used to verify the Contractor's compliance with these Equal Opportunity provisions.

6. The Contractor will include the portion of the sentence immediately preceding paragraph 1 and the provisions of paragraphs 1 through 6 in every subcontract so that such provisions will be requested of each subcontractor. The Contractor agrees to notify the City of Chattanooga of any subcontractor who refuses or fails to comply with these equal opportunity provisions. Any

failure or refusal to comply with these provisions the contractor and/or subcontractor shall be a breach of this contract.

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(Signature of Contractor)

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(Title and Name of Company)

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(Date)