

# CITY OF PEORIA C O N T R A C T

## 46-10C

This agreement, made and entered into this 1st day of July A.D., 2019 by and between the City of Peoria, a municipal corporation, party of the first part, and Sam Harris Uniforms, 1025 N. Sheridan Road, Peoria, IL 61606, his/their executors, administrators, successors or assigns, party of the second part.

WITNESSETH: That for and in consideration of the payments and agreements mentioned in the proposal hereto attached, to be made and performed by the party of the first part, and according to the terms expressed in the bond referring to these presents, the party of the second part agrees with said party of the first part, at his/their own proper costs and expense to furnish and deliver all the work, materials and supplies in accordance with the specifications contained in said proposal, and in full compliance with all of the terms of this agreement.

IT IS UNDERSTOOD AND AGREED that the instructions to bidders, proposal, and bid and specifications are component parts of this contract and shall be deemed a part hereof. It is also understood and agreed that the contractor shall not assign, transfer, convey or otherwise dispose of this contract, or his right to execute it, or his right, title or interest in or to it or any part thereof, unless the previous written consent of the City Manager of the City of Peoria shall first be obtained thereto.

IN WITNESS WHEREOF, the said parties have executed these presents on the date above mentioned.

Sam Harris Uniforms will provide Police Commissioned and Civilian Personnel Uniforms and services in accordance with the attached specifications and pricing.

This is a three (3) year contract effective July 1, 2019 and ending June 30, 2022.

THE CITY OF PEORIA

By *Pat A. Bl*  
City Manager

PARTY OF THE SECOND PART

Sam Harris Uniforms  
(Name of individual, firm, or corporation)

By *John*  
(Member of firm or officer of corporation)

APPROVED FINANCE DEPARTMENT

By *James Scroggins*  
(James Scroggins)

APPROVED LEGAL DEPARTMENT

By *Donald P. Leist*  
(Don Leist)

APPROVED USING DEPARTMENT

By *Loren Marion Jr.*  
(Loren Marion Jr.)  
III



**Council Communication**

**Agenda Date : 6/11/2019**

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**File #: 19-170, Version: 1**

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**ACTION REQUESTED:**

Communication from the City Manager and Chief of Police with a Request to APPROVE a Three (3) Year SOLE SOURCE CONTRACT with the Option to Extend for Two (2) Years with S HARRIS UNIFORMS for Commissioned and Civilian Personnel Uniforms.

**BACKGROUND**

The Peoria Police Department utilizes specific manufactured clothing for uniform items. Sam Harris is the only local distributor that is authorized to sell complete uniforms to the police department. They have established a long-standing business relationship with the Peoria Police Department. Over many decades, Sam Harris has been the equipment and uniform supplier for the Peoria Police Department, as well as other departments in the City of Peoria. Although satisfying the police department's uniform orders are cumbersome and standards for customer service are high, Sam Harris Uniforms and their personnel have a record of meeting and accommodating the needs of the police department's 230 sworn and civilian staff. They do not anticipate any supply disruptions nor issues that would prevent them from providing the best products and customer service to the Peoria Police Department.

Over the history of conducting business with Sam Harris Uniforms, they have a record of submitting competitive pricing and providing on-site customer service. The customer service aspect of this business relationship has proven difficult for other businesses to replicate. Sam Harris Uniforms has been able to provide all the uniform and equipment needs required by our past contracts.

Sam Harris Uniforms is a small, local business located in a City of Peoria Hub-Zone at 1025 N. Sheridan in Peoria, Illinois. They have been a mainstay in the Peoria community for over 115 years. The current business owner and President is Karla Dennhardt whose business goals include hiring residents in or near the business. Sam Harris currently employs 8 people, including protected class citizens.

**FINANCIAL IMPACT:** The Peoria Police Department Training Division expects to spend \$100,000 for each year of the new contract. The money will be drawn from account number 1012121-504908. The purchases will include replacement of equipment and clothing for current and newly commissioned police officers as well as current and new civilian employees.

Sam Harris Uniforms states that they will not increase their prices for uniforms and equipment until the 3<sup>rd</sup> year of the contract at 3%. In the event Sam Harris is granted the 4<sup>th</sup> and 5<sup>th</sup> year extensions, they pledge not to increase their costs until the 5<sup>th</sup> year at 3%. Please refer to the following chart that tracks the costs for uniforms over the lifespan of the proposed contract.

**NEIGHBORHOOD CONCERNS:** N/A

**IMPACT IF APPROVED:** If approved, the Peoria Police Department will have a new three (3) year uniform contract with two (2) optional years. This new contract will allow the police department to purchase essential clothing and equipment for our employees. During the course of this contract Sam Harris Uniforms will be required to provide documentation justifying any price increases and show that inventory at the store is in line with requirements in the bid.

**IMPACT IF DENIED:** If denied, the Peoria Police Department and the Purchasing Division would solicit bids for the uniform contract.

**ALTERNATIVES:** None

**EEO CERTIFICATION NUMBER:** S. Harris Uniforms - 00127-200630

**WHICH OF THE GOALS IDENTIFIED IN THE COUNCIL'S 2017 - 2032 STRATEGIC PLAN DOES THIS RECOMMENDATION ADVANCE?**

1. Financially Sound City
2. Choose an item.
3. Choose an item.

**WHICH CRITICAL SUCCESS FACTOR(S) FROM THE COMPREHENSIVE PLAN DOES THIS RECOMMENDATION IMPLEMENT?**

1. Grow employers and jobs.
2. Reinvest in neighborhoods.
3. Choose an item.

**DEPARTMENT:** Police

Sam Harris Uniforms Price Quotation

June 1, 2019 - June 1, 2024

Item	2019 - 2020	2020 - 2021	2021 - 2022 June 1 +3%	2022 - 2023	2023 - 2024 June 1 +3%
L/S Shirt Male	\$73.15	\$73.15	\$75.35	\$75.35	\$77.65
L/S Shirt Female	\$73.15	\$73.15	\$75.35	\$75.35	\$77.65
S/S Shirt Male	\$64.85	\$64.85	\$66.80	\$66.80	\$68.80
S/S Shirt Female	\$64.85	\$64.85	\$66.80	\$66.80	\$68.80
L/S White Shirt Male	\$51.00	\$51.00	\$52.55	\$52.55	\$54.15
L/S White Shirt Female	\$51.00	\$51.00	\$52.55	\$52.55	\$54.15
S/S White Shirt Male	\$43.80	\$43.80	\$45.15	\$45.15	\$46.50
S/S White Female	\$43.80	\$43.80	\$45.15	\$45.15	\$46.50
Winter Trouser - Male	\$132.65	\$132.65	\$136.65	\$136.65	\$140.75
Winter Trouser - Female	\$132.65	\$132.65	\$136.65	\$136.65	\$140.75
Summer Trouser - Male	\$98.85	\$98.85	\$101.85	\$101.85	\$104.95
Summer Trouser - Female	\$98.85	\$98.85	\$101.85	\$101.85	\$104.95
Poly Trouser Male/Female	\$72.75	\$72.75	\$74.95	\$74.95	\$77.20
L/S Training Shirt	\$48.20	\$48.20	\$49.65	\$49.65	\$51
S/S Training Shirt	\$44.10	\$44.10	\$45.45	\$45.45	\$46.85
Training Trouser Male/Female	\$79.35	\$79.35	\$81.75	\$81.75	\$84.20
5 Star Hat Peoria Spec	\$51.45	\$51.45	\$53.00	\$53.00	\$54.60
Academy Trouser Male/Female	\$22.75	\$22.75	\$23.45	\$23.45	\$24.15
White Academy T Shirt	\$9.95	\$9.95	\$10.25	\$10.25	\$10.60
Leather Coat	\$355.35	\$355.35	\$366.05	\$366.05	\$377.05
Rain Coat	\$99.00	\$99.00	\$102.00	\$102.00	\$105.10
Rain Jacket	\$87.95	\$87.95	\$90.65	\$90.65	\$93.45
Seasonal Jacket	\$108.15	\$108.15	\$111.40	\$111.40	\$114.75
Dress Blouse	\$262.60	\$262.60	\$270.50	\$270.50	\$278.65
Shirt w/Side Pocket	\$65.45	\$65.45	\$67.45	\$67.45	\$69.50
Bicycle Polo	\$60.75	\$60.75	\$62.60	\$62.60	\$64.50
Bicycle Jacket	\$139.05	\$139.05	\$143.25	\$143.25	\$147.55
Zip in Fleece Jacket	\$72.10	\$72.10	\$74.30	\$74.30	\$76.55
Bicycle Pant w/zip off Legs	\$98.40	\$98.40	\$101.35	\$101.35	\$104.40
Bicycle Shorts	\$72.65	\$72.65	\$74.85	\$74.85	\$77.10
S/S Fire Arm Instructor Polo	\$51.45	\$51.45	\$53.00	\$53.00	\$54.60
Sew On Name Tag	\$5.50	\$5.50	\$5.65	\$5.65	\$5.85
L/S Vertex Polo-RC	\$48.80	\$48.80	\$50.30	\$50.30	\$51.85
S/S Vertex Polo-RC	\$45.85	\$45.85	\$47.25	\$47.25	\$48.70
Outer Carrier for Armor	100.50	\$100.50	\$103.55	\$103.55	\$106.70
Button Front Cardigan	\$45.00	\$45.00	\$46.35	\$46.35	\$47.75
Rain Cap Cover	\$15.00	\$15.00	\$15.45	\$15.45	\$15.95
Ball Cap	\$8.50	\$8.50	\$8.80	\$8.80	\$9.10
Tie	\$6.00	\$6.00	\$6.20	\$6.20	\$6.40

**PEORIA POLICE DEPARTMENT**  
**UNIFORM CONTRACT AND SPECIFICATIONS**  
**Dec 2019 – 2022**

1. The entire bid for all uniform items will be awarded to one bidder.
2. **SUBSTITUTIONS will be allowed for any item found within this contract with customer having final right of refusal.**
3. Quantity estimates may be calculated by utilizing the current number of employees within each job classification.
4. Bidders must have a store or alteration facility or contracted service provider available within the corporate limits of the City of Peoria, open on a daily basis (except Sundays and holidays), for repairs, alterations and fittings.
5. The vendor shall be responsible for fitting all employees receiving uniforms and to maintain a permanent record of those measurements.
6. The vendor must have personnel available for fitting employees during the normal workweek.
7. In order to facilitate the replacement of worn or damaged uniforms, and for initial uniform issue to newly hired employees, the vendor shall keep in stock at all times four (4) of each item in each size. This requirement will be limited to those items listed on pages 3 and 4 as being issued to newly hired employees.
8. Uniform items must be available at no set increments throughout the year for replacement of worn or damaged uniforms, or new employee issue.
9. All deliveries shall be either on hangers, folded and string tied, or folded and plastic wrapped.
10. All deliveries shall be tagged with the name of the employee for which the uniform item is intended.
11. Any ordered item should routinely be available within ten (10) days and must be available within thirty (30) days from the date of request.
12. The vendor must agree to provide necessary alterations at no extra charge for uniforms of hard to fit sizes, or for uniforms that do not fit properly, for both men and women, for a period thirty (30) days after delivery of said uniforms.
13. Minor alterations (hemming, tapering, and sewing of emblems and patches) must be completed and returned to the police department within five (5) business days of the time of delivery to the vendor, with exception for holidays and weekends.
14. Any uniform item delivered that does not properly fit the employee for whom it was intended shall be exchanged at no additional cost (including shipping costs).

15. The vendor must agree to sew on all shoulder patches, cap patches, embroidered badges, service stars, rank insignia, and name tags at no extra charges.
16. Bids for each item must include both male and female sizes if applicable. If the specification and bid price for an item does not differentiate between genders, the vendor will agree to provide that item in either male or female sizes if applicable or perform the appropriate alterations at no additional cost.
17. Upon request the bidder must provide a letter of credit or other documentation to prove that they have financial ability to maintain the inventory required. This requirement will be a factor in picking a contractor. *\*\*Must be able to demonstrate a history of being a uniform vendor at a volume of ..... (For Chris Switzer consideration.)*
18. The winning bidder will not be required to purchase at manufacturer's cost, the special summer and winter pants that the current supplier has in stock. The City has a right to purchase the remaining stock of the previous vendor.
19. If the manufacturer charges a percentage upcharge for oversized units above the basic unit cost, the vendor can pass that charge on. Bidder must state what the percentage is and what sizes and clothing units it covers. **This is to be an attachment to the bid response.**
20. This is to be a three (3) year contract with two (2) additional one (1) year contract options starting from date of award. The City of Peoria may elect to extend the contract for a period of six (6) months past the expiration date if necessary.

The City of Peoria Police Department provides uniforms for 220 police officers and 40 civilian personnel including 12 information / record clerks and 5 parking enforcement officers. Each new employee is provided a full set of uniforms as listed and replacement uniforms as needed.

**NEW HIRE  
UNIFORM ISSUE**

**ANNUAL  
REPLACEMENT**

**POLICE OFFICER – Commission (A)**

5	Each	Long sleeve shirt	2 per year
5	Each	Long sleeve shirt – white	2 per year
5	Each	Short sleeve shirt	2 per year
5	Each	Short sleeve shirt – white	2 per year
3	Each	Winter trouser	2 per year
3	Each	Summer trouser	2 per year
1	Each	Training shirt –long/short sleeve	As need basis
1	Each	Training trouser	As need basis
1	Each	Five-star uniform cap	As need basis
2	Each	Academy Trouser	If attending PTI
5	Each	White T-shirt w / name on back	If attending PTI
1	Each	Leather Jacket	As need basis
1	Each	Rain coat / jacket	As need basis
1	Each	Seasonal Jacket	As need basis
1	Each	Dress Blouse	As need basis
1	Each	Short w / side pocket	Duty Specific

**MOTORCYCLE OFFICER – Commission (A)**

3	Each	Motorcycle Breeches	Duty Specific
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**BICYCLE OFFICER – Commission (A)**

2	Each	Uniform Polo	Duty Specific
1	Each	Bicycle Jacket	Duty Specific
1	Each	Zip-In Fleece Jacket	Duty Specific
2	Each	Zip-Off Pant with Zip Cuffs	Duty Specific
2	Each	Bicycle Short	Duty Specific

**NEW HIRE**  
**UNIFORM ISSUE**

**ANNUAL**  
**REPLACEMENT**

**INFORMATION / RECORD CLERKS – Civilian (B)**

5	Each	Long sleeve poplin shirt	2 per year
5	Each	Short sleeve poplin shirt	2 per year
4	Each	Trouser	2 per year
1	Each	Sweater	As need basis

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All raw materials and assembly thereof are made in the U.S.A.



**This page**

**Starts**

**The beginning**

**Of commission**

**Clothing.**

**LONG SLEEVE SHIRT (Male)**  
**FLYING CROSS ITEM #07W8786Z**

**FABRIC:**

Content: 75% Dacron Polyester/25% Worsted Wool conforming to the following specifications:  
Weight: 9-9.5 oz./linear yard  
Construction: 50 warp by 46 filling yarns per sq. inch  
Tensile: Break strength 75 warp – 150 filling (lbs.)

**COLOR:**

LAPD (Navy) Blue – Matching standard sample on display.

**STYLE:**

Plain front coat style, form fitting, collar attached, long sleeves with barrel cuffs. Two pleated breast pockets with scalloped flaps. Shoulder straps. Exterior badge holder with metal eyelets. Matching inside yoke and collar band of high luster Poly Twill.

**COLLAR & STAND:**

Style and dimensions as sample on display. Collar points to measure 3¼" long with fused-in Mylar stays. Collar height at rear 1½". Topstitched ¼" off the edge. Collar stand to measure 1<sup>5</sup>/<sub>16</sub>" at rear and band to be die cut and interlined with "Crease N Tack" in band. Collar interlined with #250 Dacron.

**FRONT:**

The left front shall have a top center 1½" wide with two (2) rows of stitches <sup>7</sup>/<sub>8</sub>" apart. The shirt will have seven (7) buttons and buttonholes on the front, spacing between each will be 3¾" except the spacing between the neck button and the first button on the front which will be 3¼". Top center interlined with #250 Dacron. The fronts shall be joined to yoke so that both raw edges of the yoke are turned under, with the front sandwiched between, then all three (3) are stitched down with a <sup>1</sup>/<sub>16</sub>" raised stitch. Safety stitch joining unacceptable. Front closure shall be accomplished by a 15" nylon zipper, to be set below the second button and buttonhole. The top, second, and bottom buttons to be attached to the right front, the balance to be sewn over the buttonholes on the left front.

**SHOULDER STRAPS:**

Style and dimensions as sample. Asymmetrical shape, topstitched ¼" off the edge to be set on yoke with leading topstitch conforming with front joining seam. To measure 2" at sleeve tapering to 1<sup>3</sup>/<sub>8</sub>" and set not more than ½" from folded collar. Cross stitched approximately 2" from sleeve seam. Shoulder strap lined with #250 Dacron. Creased and edge stitched shoulder strap construction unacceptable.

**BADGE REINFORCEMENT:**

Exterior to finish 1<sup>1</sup>/<sub>8</sub>" wide by 2¼" deep with two metal eyelets 1¼" apart with bottom eyelet centered 1¼" above left flap.

## **FLYING CROSS ITEM #07W8786Z continued**

### **POCKETS:**

Two breast pockets with 1½" stitched pleats. Pocket to measure 5<sup>5</sup>/<sub>8</sub>" wide, 6" deep. Left breast pocket to the 1½" pencil stitch. Button sewn 1<sup>3</sup>/<sub>8</sub>" down from top of pocket. Each pocket to have Velcro tape ¾" long by ½", positioned on both edges of pocket to correspond with outer scalloped flap points as sample.

### **FLAPS:**

Deep scalloped design to measure 5<sup>7</sup>/<sub>8</sub>" across and 2¾" in depth at center point, 2¼" at sides. Secured to shirt front approximately ¼" above pocket. Left flap to have invisible pencil opening 1½" to correspond precisely with pencil slot to pocket. Both flaps to be interlined with #250 Dacron. Creased and edge stitched pocket flap construction unacceptable. Underside of flap to have Velcro tape ¾" long by ½" wide, positioned on outer points of both pocket flaps as sample.

### **SLEEVES:**

Straight at width – no bias – of one piece shaped at head, jacket type. Sleeve vent 5½" long with top and bottom facings. Top facing to measure 1<sup>1</sup>/<sub>8</sub>" wide point blocked at top. Under-facing ½" wide.

### **CUFFS:**

To measure 3" in depth with rounded corners as sample. With two (2) buttons and corresponding buttonholes on each cuff and one button and buttonhole in center of facing. Both cuffs to be interlined with #250 Dacron.

### **BUTTONS:**

First grade 19 ligne pearlescent plastic to match.

### **STITCHING:**

Single needle throughout. All topstitched ¼" off the edge. Sleeve inserting and side close felling, safety stitched.

### **THREAD:**

All sewing threads to be fast color polyester core polyester wrap to match.

### **INTERLINING:**

Collars, pocket flaps, shoulder straps, cuffs and top center to be interlined with 100% Dacron #250. Collar band to be interlined with "Crease N Tack".

### **MILITARY CREASES:**

Five (5) silicone sharp military creases on all shirts. One crease on each front to be centered vertically. Spacing for military creases on shirt back to be proportionate to the size of the shirt as follows:

- Sizes 14 thru 15½ - creases to 4¾" apart;
- Sizes 16 thru 18 inclusive – crease to be 5¾" apart as measured from the center crease.

**FLYING CROSS ITEM #07W8786Z continued**

**CONSTRUCTION:**

Collars, flaps, and shoulder straps are made by the conventional construction. Top ply, bottom ply, and interlining are first stitched together, then turned right side out, and finally topstitched.

**CONVERTIBILITY:**

This garment shall be designed to accommodate removable metal buttons having eyelets under the sewn buttons on the button front, pockets, cuffs, and shoulders. There are protective pieces on the inside of the garment on the shoulders and cuffs, as well as reinforcing strip inside the right front.

**LONG SLEEVE SHIRT (Female)**  
**FLYING CROSS ITEM #107W8786Z**

**FABRIC:**

Content: 75% Dacron Polyester/25% Worsted Wool conforming to the following specifications:  
Weight: 9 – 9½ oz./linear yard  
Construction: 50 warp by 46 filling yarns per sq. inch  
Tensile: Break strength 75 warp – 150 filling (lbs.)

**COLOR:**

LAPD (Navy) Blue – Matching standard sample on display.

**STYLE:**

The style shall be known as banded collar, long sleeve, coat shirt with full length tail and form fitting. The shirt to have two (2) outside breast pockets and scalloped flaps having one button each. Shoulder straps. Exterior badge holder with metal eyelets. Matching inside yoke and collar band of high Lustre Poly Twill.

**COLLAR AND STAND:**

Style and dimensions as sample on display. Collar point to measure 3¼" long with fused-in Mylar stays. Collar to be topstitched ¼" off the edge. Collar height at rear 1½". Collar stand to measure 1<sup>5</sup>/<sub>16</sub>" at rear and band to be die cut and interlined with Dacron (#250 in collar, "Crease N Tack" in band).

**FRONT:**

The right front shall have a top center 1½" wide with two rows of stitches <sup>7</sup>/<sub>8</sub>" apart. The right front shall have six (6) buttonholes spaced 3½" apart and to be set <sup>3</sup>/<sub>4</sub>" from edge. Second buttonhole to be spaced 3¼" from top button, balance of buttons spaced 3½" apart. Top center interlined with #250 Dacron.

**SHOULDER STRAPS:**

Style and dimensions as sample. Asymmetrical shaped top-stitched ¼" off the edge to be set on yoke with leading topstitch conforming with front joining seam. To measure 2" at sleeve tapering to 1<sup>3</sup>/<sub>8</sub>" and set not more than ½" from folded collar. Cross stitched approximately 2" from sleeve seam. Shoulder strap lined with #250 Dacron. Creased and edge stitched shoulder strap construction unacceptable.

**BADGE REINFORCEMENT:**

Exterior holder to finish 1<sup>1</sup>/<sub>8</sub>" wide by 2¼" deep with two metal eyelets <sup>7</sup>/<sub>8</sub>" apart with bottom eyelet centered <sup>7</sup>/<sub>8</sub>" above left flap.

**POCKETS:**

Two (2) breast pockets 1¼" stitched pleats. Pockets to measure 5" wide, 5" deep. Each pocket to have Velcro tape <sup>3</sup>/<sub>4</sub>" long by ½" wide, positioned on both edges of pocket to correspond with outer scalloped flap points as sample.

## **FLYING CROSS ITEM #107W8786Z continued**

### **FLAPS:**

Deep scalloped design to measure 5¼" across and 2¼" in depth at center point, 1¾" at sides. Secured to shirt front approximately ¼ above pocket. Left flap to have invisible pencil opening 1¼". Both flaps to be interlined with #250 Dacron. Creased and edged stitched pocket flap construction unacceptable. Under side of the flap to have Velcro tape ¾" long by ½" wide positioned on outer points of both pocket flaps as sample.

### **SLEEVES:**

Straight at width – no bias – of one piece shaped at head, jacket type. Sleeve vent approximately 4¾" long with top and bottom facings. Top facing to measure 1⅛" wide point blocked at top. Underfacing ½" wide.

### **CUFFS:**

To measure 2½" in depth with rounded corners as sample. With two button adjustable cuffs. Both cuffs to be interlined with #250 Dacron.

### **BUTTONS:**

First grade 19 ligne pearlescent plastic to match.

### **STITCHING:**

Single needle throughout. All topstitched ¼" off the edge. Sleeve inserting and side close felling, safety stitched.

### **THREAD:**

All sewing threads to be fast color polyester core polyester wrap to match.

### **INTERLINING:**

Collars, pocket flaps, shoulder straps, cuffs, and top center to be interlined with 100% Dacron #250. Collar band to be interlined with "Crease N Tack".

### **MILITARY CREASES:**

Silicone sharp military creases on all shirts. One crease on each front to be centered vertically. Spacing for military creases on shirt back to be proportionate to the size of the shirt.

### **CONSTRUCTION:**

Collars, flaps, and shoulder straps are made by the conventional construction. Top ply, bottom ply, and interlining are first stitched together, then turned rightside out and finally topstitched.

### **CONVERTIBILITY:**

This garment shall be designed to accommodate removable metal buttons having eyelets under the sewn buttons on the button front, pockets, cuffs, and shoulders. There are protective pieces on the inside of the garment on the shoulders and cuffs, as well as a reinforcing strip inside the left front.

**LONG SLEEVE SHIRT (COMMAND - white)  
FLYING CROSS ITEM #35W7800Z**

**FABRIC:**

Content: 100% textured polyester conforming to the following specifications:  
Weight: 4.5 oz./sq. yard  
Construction: 67 warp by 49 filling yarns per sq. inch  
Tensile: warp 159 lbs. – filling 155 lbs.  
Tear: warp 6.6 lbs. – filling 8.5 lbs.

**COLOR:**

White – Matching standard sample on display.

**STYLE:**

Plain front coat style, form-fitting, collar attached, long sleeves with barrel cuffs. Two (2) pleated breast pockets. Shoulder straps. Full badge reinforcement. Matching inside yoke and collar band of high lustre Poly Twill.

**COLLAR & STAND:**

Style and dimensions as sample on display. Collar points to measure 3¼" long with fused-in Mylar stays. Collar height at rear 1½". Topstitched ¼" off the edge. Collar stand to measure 1<sup>5</sup>/<sub>16</sub>" at rear. Collar and band to be die cut. Collar interlined with #250 Dacron. Band interlined with "Crease N Tack".

**FRONT:**

The left front shall have a top center 1½" wide with two rows of stitches <sup>7</sup>/<sub>8</sub>" apart. The shirt will have seven (7) buttons and buttonholes on the front, spacing between each will be 3¾" except the spacing between the neck button and the first button the front which will be 3¼". Top center interlined with #250 Dacron. The fronts shall be joined to the yoke so that both raw edges of the yoke are turned under, with the front sandwich between, then all three are stitched down with a <sup>1</sup>/<sub>16</sub>" raised stitch. Safety stitch joining unacceptable. Front closure shall be accomplished by a 15" nylon zipper, to be set below the second button and buttonhole. The top, second, and bottom buttons to be attached to the right front, the balance to be sewn over the buttonholes on the left front.

**SHOULDER STRAPS:**

Style and dimensions as sample. Asymmetrical shape topstitched ¼" off the edge to be set on yoke with leading topstitch conforming with front joining seam. To measure 2" at sleeve tapering to 1<sup>3</sup>/<sub>8</sub>" and set not more than ½" from folded collar. Cross stitched approximately 2" from sleeve seam. Creased and edge stitched shoulder strap construction unacceptable.

**BADGE REINFORCEMENT:**

Two-ply sling 1" wide centered over left pocket and stitched to shoulder seam and flap setting stitch. To have two (2) buttonhole eyelets approximately 1¼" from top of pocket flap spaced 1¼" apart and centered on sling.

## **FLYING CROSS ITEM #35W7800Z continued**

### **POCKETS:**

Two (2) breast pockets with 1½" stitched pleats and mitred corners. Pocket to measure 5<sup>5</sup>/<sub>8</sub>" wide, 6" deep. Left breast pocket to have 1½" pencil stitch. Each pocket to have Velcro tape ¾" long by ½" wide, positioned on both edges of pocket to correspond with outer scalloped flap points as sample.

### **FLAPS:**

Deep scalloped design to measure 5<sup>7</sup>/<sub>8</sub>" across and 2<sup>3</sup>/<sub>4</sub>" in depth at center point, 2¼" at sides. Secured to shirt front approximately ¼" above pocket. Topstitched ¼" off the edge. Left flap to have invisible pencil opening 1½" to correspond precisely with pencil slot of pocket. Both flaps to be interlined with Dacron #250. Button sewn on top of flap buttonhole. Creased and edge stitched pocket flap construction unacceptable. Underside of the flap to have Velcro tape ¾" long by ½" wide positioned on outer points of both pocket flaps as sample.

### **SLEEVES:**

Straight at width – no bias – of one piece shaped at head, jacket type. Sleeve vent 5½" long with top and bottom facings. Top facing to measure 1<sup>1</sup>/<sub>8</sub>" wide point blocked at top. Underfacing ½" wide.

### **CUFFS:**

To measure 3" in depth with rounded corners as sample. Topstitched ¼" off the edge. With two (2) buttons and corresponding buttonholes on each cuff and one button and buttonhole in center of facing. Both cuffs to be interlined with #250 Dacron.

### **BUTTONS:**

First grade 19 ligne pearlescent plastic to match.

### **STITCHING:**

Single needle throughout. All topstitched ¼" off the edge. Sleeve inserting and side close felling, safety stitched.

### **THREAD:**

All sewing threads to be fast color polyester core polyester wrap to match.

### **MILITARY CREASES:**

Five (5) stitched-in sharp military creases on all shirts. One crease on each front to be centered vertically. Spacing for military creases on shirt back to be proportionate to the size of the shirt as follows:

- Sizes 14 thru 15½ - creases to be 4¾" apart;
- Sizes 16 thru 18 inclusive – creases to be 5¾" apart  
as measured from the center crease.

### **CONSTRUCTION:**

Collars and flaps are made by the conventional construction. Top ply, bottom ply, and interlining are first stitched together, then turned right side out, and finally topstitched.



**SHORT SLEEVE SHIRT (Male)**  
**FLYING CROSS ITEM #57R8786Z**

**FABRIC:**

Content: 75% Dacron Polyester/25% Worsted Wool conforming to the following specifications:  
Weight: 9-9.5 oz./linear yard  
Construction: 50 warp by 46 filling yarns per sq. inch  
Tensile: Break strength 75 warp – 150 filling (lbs.)

**COLOR:**

LAPD (Navy) Blue – Matching standard sample on display.

**STYLE:**

The style shall be known as a convertible collar, short sleeve, coat shirt, with full length tail and form-fitting. The shirt to have two (2) outside breast pockets and scalloped flaps having one button each. Exterior badge holder with metal eyelets. The back to have a double yoke.

**COLLAR:**

Convertible collar shall be one piece and to measure 3 ¼" long at points. The collar shall be made with fused-in Mylar stays. Collar to be topstitched ¼" off the edge. Collar to be interlined with #250 Dacron. Collar to have a banana piece of Poly Twill lining.

**FRONT:**

Each front shall have a facing 3" in width. The left front shall have a top center 1½" wide with two (2) rows of stitches 7/8" apart. Stitching on top center is not to be visible on the turn-back facing. The shirt will have seven (7) buttons and buttonholes on the front, spacing between each will be 3¾" except the spacing between the neck button and the first button on the front which will be 2½". Top center interlined with #250 Dacron. The fronts shall be joined to yoke so that both raw edges of the yoke are turned under, with the front sandwiched between, then all three (3) are stitched down with a 1/16" raised stitch. Safety stitch joining unacceptable. Front closure shall be accomplished by a 15" nylon zipper, to be set below the second button and buttonhole. The top, second, and bottom buttons to be attached to the right front, the balance to be sewn over the buttonholes on the left front.

**SHOULDER STRAPS:**

Style and dimensions as sample. Asymmetrical shape, topstitched ¼" off the edge to be set on yoke with leading topstitch conforming with front joining seam. To measure 2" at sleeve tapering to 1¾" and set not more than ½" from folded collar. Cross stitched approximately 2" from sleeve seam. Shoulder strap lined with #250 Dacron. Creased and edge stitched shoulder strap construction unacceptable.

**BADGE REINFORCEMENT:**

Exterior holder to finish 1⅛" wide by 2¼" deep with two metal eyelets 1¼" apart with bottom eyelet centered 1¼" above left flap.

## **FLYING CROSS ITEM #57R8786Z continued**

### **POCKETS:**

Two (2) breast pockets with 1½" stitched pleats. Pocket to measure 5<sup>5</sup>/<sub>8</sub>" wide, 6" deep. Left breast pocket to the 1½" pencil stitch. Each pocket to have Velcro tape ¾" long by ½", positioned on both edges of pocket to correspond with outer scalloped flap points as sample.

### **FLAPS:**

Deep scalloped design to measure 5<sup>7</sup>/<sub>8</sub>" across and 2<sup>3</sup>/<sub>4</sub>" in depth at center point, 2¼" at sides. Secured to shirt front approximately ¼" above pocket. Left flap to have invisible pencil opening 1½" to correspond precisely with pencil slot to pocket. Topstitched on flaps to be ¼" stitched. Both flaps to be interlined with #250 Dacron. Creased and edge stitched pocket flap construction unacceptable. Underside of flap to have Velcro tape ¾" long by ½" wide, positioned on outer points of both pocket flaps as sample.

### **SLEEVES:**

Sleeves are to be straight and whole, to have ¾" hem and to finish approximately 9" long from shoulder seams.

### **BUTTONS:**

First grade 19 ligne pearlescent plastic to match.

### **STITCHING:**

Single needle throughout. All topstitched ¼" off the edge. Sleeve inserting and side close felling, safety stitched.

### **THREAD:**

All sewing threads to be fast color polyester core polyester wrap to match.

### **INTERLINING:**

Collars, pocket flaps, shoulder straps, and top center to be interlined with 100% Dacron #250.

### **MILITARY CREASES:**

Five (5) silicone sharp military creases on all shirts. One crease on each front to be centered vertically. Spacing for military creases on shirt back to be proportionate to the size of the shirt as follows:

Sizes 14 thru 15½ - creases to 4<sup>3</sup>/<sub>4</sub>" apart;

Sizes 16 thru 18 inclusive – crease to be 5<sup>3</sup>/<sub>4</sub>" apart as measured from the center crease.

### **CONSTRUCTION:**

Collars, flaps, and shoulder straps are made by the conventional construction. Top ply, bottom ply, and interlining are first stitched together, then turned right side out, and finally topstitched.

### **CONVERTIBILITY:**

This garment shall be designed to accommodate removable metal buttons having eyelets under the sewn buttons on the button front, pockets, cuffs, and shoulders. There are protective pieces on the inside of the garment on the shoulders and cuffs, as well as reinforcing strip inside the right front.

**SHORT SLEEVE SHIRT (Female)  
FLYING CROSS ITEM #157R8786Z**

**FABRIC:**

Content: 75% Dacron Polyester/25% Worsted Wool conforming to the following specifications:

Weight: 9 – 9½ oz./linear yard

Construction: 50 warp by 46 filling yarns per sq. inch

Tensile: Break strength 75 warp 150 filling (lbs.)

**COLOR:**

LAPD (Navy) Blue – Matching standard sample on display.

**STYLE:**

The style shall be known as a convertible collar, short sleeve, coat shirt with full length tail and form fitting. The shirt to have two outside breast pockets and scalloped flaps having one button each. Shoulder straps. Exterior badge holder with metal eyelets. The back to have a double yoke.

**COLLAR:**

Convertible collar shall be one piece and to measure 27/8" long at points. The collar shall be made with fused in Mylar stays. Collar to be topstitched ¼" off the edge. Collar to be interlined with #250 Dacron. Collar to have a banana piece of Poly Twill lining.

**FRONT:**

The right front shall have a top center 1½" wide with two rows of stitches 7/8" apart. Stitching on the top center is not to be visible on the turn back facing. The right front shall have six (6) buttonholes spaced 3½" apart and to be set ¾" from edge. Second buttonhole to be spaced 2½" from top button, balance of buttons spaced 3½" apart. Top center interlined with #250 Dacron. The fronts shall be joined to the yoke so that both raw edges of the yoke are turned under, with the front sandwiched between, then all three (3) are stitched down with a 1/16" raised stitch. Safety stitch joining unacceptable.

**SHOULDER STRAPS:**

Style and dimensions as sample. Asymmetrical shape top stitched ¼" off the edge to be set on yoke with leading topstitch conforming with front joining seam. To measure 2" at sleeve tapering to 13/8" and set not more than ½" from folded collar. Cross stitched approximately 2" from sleeve seam. Shoulder strap lined with #250 Dacron. Creased and edge stitched shoulder strap construction unacceptable.

**BADGE REINFORCEMENT:**

Exterior holder to finish 11/8" wide by 2¼" deep with two metal eyelets 7/8" apart with bottom eyelet centered 7/8" above left flap.

**POCKETS:**

Two (2) breast pockets with 1¼" stitched pleats. Pockets to measure 5" wide, 5" deep. Each pocket to have Velcro tape ¾" long by ½" wide, positioned on both edges of pocket to correspond with outer scalloped flap points as sample.

## **FLYING CROSS ITEM #157R8786Z continued**

### **SHORT SLEEVES:**

Sleeves are to be straight and whole, to have ½” hem and to finish approximately 8½” long from shoulder seams.

### **BUTTONS:**

First grade 19 ligne pearlescent plastic to match.

### **STITCHING:**

Single needle throughout. All topstitched ¼” off the edge. Sleeve inserting and side close felling, safety stitched.

### **THREAD:**

All sewing threads to be fast color polyester core polyester wrap to match.

### **INTERLINING:**

Collars, pocket flaps, shoulder straps and top center to be interlined with 100% Dacron #250.

### **MILITARY CREASES:**

Five (5) silicone sharp military creases on all shirts. One crease on each front to be centered vertically. Spacing for military creases on shirt back to be proportionate to the size of the shirt.

### **CONSTRUCTION:**

Collars, flaps, and shoulder straps are made by the conventional construction. Top ply, bottom ply, and interlining are first stitched together, then turned right side out, and finally topstitched.

### **CONVERTIBILITY:**

This garment shall be designed to accommodate removable metal buttons having eyelets under the sewn buttons on the button front, pockets, and shoulders. There are protective pieces on the inside of the garment on the shoulders, as well as a reinforcing strip inside the left front.

**SHORT SLEEVE SHIRT (COMMAND - white)  
FLYING CROSS ITEM #85R7800Z**

**FABRIC:**

Content: 100% Textured Polyester conforming to the following specifications:

Weight: 4.5 oz./sq. yd.

Construction: 67 warp by 49 filling yarns per sq. inch

Tensile: warp 159 lbs. – filling 155 lbs.

Tear: warp 6.6 lbs. - filling 8.5 lbs.

**COLOR:**

White - Matching standard sample on display.

**STYLE:**

Plain front coat style with full length tail, form-fitting, convertible collar, and short sleeves. Two pleated breast pockets with scalloped flaps. Shoulder straps. Full badge reinforcement. Matching inside yoke and banana band of high lustre Poly Twill.

**COLLAR:**

Convertible collar shall be one piece and measure 3¼" long at points with fused in Mylar stays. Topstitched ¼" off the edge. Collar to be interlined with #250 Dacron.

**FRONT:**

Each front shall have a facing 3" in width. The left front shall have a top center 1½" wide with two (2) rows of stitches 7/8" apart. Stitching on top center is not to be visible on the turn-back facing. The shirt will have seven (7) buttons and buttonholes on the front, spacing between each will be 3¾" except the spacing between the neck button and the first button on the front which will be 2½". Top center interlined with #250 Dacron. The fronts shall be joined to the yoke so that both raw edges of the yoke are turned under, with the front sandwiched between, then all three (3) are stitched down with a 1/16" raised stitch. Safety stitch joining unacceptable. Front closure shall be accomplished by a 15" nylon zipper, to be set below the second button and buttonhole. The top, second, and bottom buttons to be attached to the right front, the balance to be sewn over the buttonholes on the left front.

**SHOULDER STRAPS:**

Style and dimensions as sample. Asymmetrical shape topstitched ¼" off the edge to be set on yoke with leading topstitch conforming with front joining seam. To measure 2" at sleeve tapering to 1¾" and set not more than ½" from folded collar. Cross stitched approximately 2" from sleeve seam. Creased and edge stitched shoulder strap construction unacceptable.

**BADGE REINFORCEMENT:**

Two-ply sling 1" wide centered over left pocket and stitched to shoulder seam and flap setting stitch. To have two (2) buttonhole eyelets approximately 1¼" from top of pocket flap spaced 1¼" apart and centered on sling.

## **FLYING CROSS ITEM #85R7800Z continued**

### **POCKETS:**

Two (2) breast pockets with 1½" stitched pleats and mitred corners. Pocket to measure 5<sup>5</sup>/<sub>8</sub>" wide, 6" deep. Left breast pocket to have 1½" pencil stitch. Each pocket to have Velcro tape ¾" long by ½" wide, positioned on both edges of pocket to correspond with outer scalloped flap points as sample.

### **FLAPS:**

Deep scalloped design to measure 5<sup>7</sup>/<sub>8</sub>" across and 2<sup>3</sup>/<sub>4</sub>" in depth at center point, 2¼" at sides. Secured to shirt front approximately ¼" above pocket. Topstitched ¼" off the edge. Left flap to have invisible pencil opening 1½" to correspond precisely with pencil slot of pocket. Both flaps to be interlined with Dacron #250. Button sewn on top of flap buttonhole. Creased and edged stitched pocket flap construction unacceptable. Under side of the flap to have Velcro tape ¾" long by ½" wide positioned on outer points of both pocket flaps as sample.

### **SHORT SLEEVES:**

Sleeves are to be straight and whole, to have ¾" hem and to finish approximately 9" long from shoulder seams.

### **BUTTONS:**

First grade 19 ligne pearlescent plastic to match.

### **STITCHING:**

Single needle throughout. All topstitched ¼" off the edge. Sleeve inserting and side close felling, safety stitched.

### **THREAD:**

All sewing threads to be fast color polyester core polyester wrap to match.

### **MILITARY CREASES:**

Five (5) stitched-in sharp military creases on all shirts. One crease on each front to be centered vertically. Spacing for military creases on shirt back to be proportionate to the size of the shirt as follows:

Sizes 14 thru 15½ - creases to be 4<sup>3</sup>/<sub>4</sub>" apart;

Sizes 16 thru 18 inclusive – creases to be 5<sup>3</sup>/<sub>8</sub>" apart  
as measured from the center crease.

### **CONSTRUCTION:**

Collars and flaps are made by the conventional construction. Top ply, bottom ply, and interlining are first stitched together, then turned right side out, and finally topstitched.

**WINTER UNIFORM TROUSERS (Male)**  
**FECHHEIMER ITEM #32260SCF**

**FABRIC:**

Content: Raeford #646 55% Dacron/45% Wool conforming to the following specifications:  
Weight: Elastique weave 16½ - 17 oz./linear yard (60" width)  
Tensile: Break strength 210 lbs. warp by 135 lbs. filling  
Construction: 125 ends/inch 85 picks/inch  
Method of Dyeing: Stock dye color

**COLOR:**

Navy Blue #130 – Matching standard sample on display.

**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 by 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 have a minimum opening of 6" and a minimum depth of 5¾" measured from the bottom of the pocket opening. Front pockets to have straight bartacks (use of triangle bartacks will be cause for rejection) at top and bottom of pocket openings. Pockets shall be constructed using the stitch, turn and topstitch method. Pocket facings shall 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 5½" and a minimum depth of 5¾" 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 in such a manner that there is no topstitching (topstitched hip pocket welts shall be cause for rejection). The corners of the hip pocket openings shall have firm straight bartacks for reinforcing strength (triangle bartacks are unacceptable). 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.

The watch pocket shall be located on the right front at the waistband. This pocket shall be a minimum opening of 2¾". The front of the pocket shall be made of pocketing fabric and the back of the pocket shall be made of basic fabric and the two pieces are securely stitched together. Each corner of the pocket opening shall have firm straight bartacks.

**CLUB POCKETS:**

Club pockets #3 on both legs 3½" below front pocket opening to be 3½" wide and 7½" deep across sideseams. Be sure club pocket measures 3½" wide even after adding bartack.

## **FECHHEIMER ITEM #32260SCF continued**

### **WAISTBAND:**

The waistband shall be constructed using the "closed method" and shall measure 2" wide when finished. 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. The top portion of the inside of the waistband is to consist of the same fabric as used for pocketing (70% polyester 30% cotton – minimum 80 by 62 (+/-) 2 count). The fabric is to be cut on the bias for maximum comfort. To be  $1\frac{3}{4}$ " wide and to finish  $1\frac{1}{8}$ " wide after construction.

Upper waistband curtain to be inner lined with stretch Ban-Rol canvas. This canvas fabric consists of a warp of 47 ends of texturized nylon and a fill of 34 ends of 750 denier polyester monofilament. The woven fabric is coated with latex, which completely encapsulates all yarns. This finish canvas fabric weighs 12.0 oz./yd<sup>2</sup>. The canvas will be cut  $1\frac{3}{8}$ " monofilaments running vertically and have a 10% stretch.

The bottom portion of the waistband curtain will be a blend of 32% nylon, 38% polyester, 18% rubber (3 strands) 11% lycra and 1% acrylic woven  $1\frac{7}{8}$ " wide and to finish a minimum  $1\frac{5}{8}$ " wide. To have a minimum of 40% stretch characteristics.

Note: In a performance stretch waistband, the upper and lower portion of the band will perform different functions.

The upper portion should allow a comfort fit at the waist when bending or sitting, and must maintain a crisp, clean appearance at the outer waistband. This part of the band will stretch 10% and be firm enough to prevent waistband rollover.

The bottom portion of the waistband stretches over the hip to give support to the lower back and abdomen. In addition, this high stretch portion of the band should constantly be pressed up by the hips, preventing the slack from slipping down while being worn, even if heavy keys, change, or other items are carried in the pockets or on the belt.

The three (3) rubberized strands ensure that shirts stay tucked in for neat appearance.

### **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 fly corresponding with the French Fly tap 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.



## **FECHHEIMER ITEM #32260SCF continued**

### **BELT LOOPS:**

There shall be a minimum of seven (7) belt loops, six (6) of which are to be Keystone style. Keystone loops shall measure 1¾" in width at the top and 1¼" at the bottom. The center back loop shall be a ¾" wide straight loop. The Keystone loops shall be sewn into the bottom of the waistband and the top of the 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.

### **STRIPE:**

½" cloth stripe Royal Blue sewn on top of side seam to bottom pockets. (F1873-A)

### **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 Press and properly shaped. Outseams and inseams must be pressed open. Trousers 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.

### **STOCK SIZES:**

Trouser must be available in the following stock sizes:

REGULAR RISE:	28 – 54 (Even sizes only over 38)
SHORT RISE:	28 – 40 (Even sizes only)
LONG RISE:	32 – 42 (Even sizes only)

SEE SIZING CHART

**SUMMER UNIFORM TROUSERS (Male)**  
**FECHHEIMER ITEM #32269SCF**

**FABRIC:**

Content: 55% Dacron/45% Wool two (2) ply construction in warp and filling:  
Weight: 13 - 13½ oz./linear yard (60" width) serge weave  
Tensile: Break strength 120 lbs. warp by 100 lbs. filling  
Construction: 73 ends/inch 66 picks/inch

**COLOR:**

Navy – Fabric may be dry-cleaned or laundered in home washing machine.

**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, two (2) hip pockets and a watch pocket. 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 by 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 a quarter top style with a minimum opening of 6" and a minimum depth of 5¾" measured from the bottom of the pocket opening. Front pockets to have straight bartacks (use of triangle bartacks will be cause for rejection) at 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 5½" and a minimum depth of 5¾" 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 in such a manner that there is no topstitching (topstitched hip pocket welts shall be cause for rejection). The corners of the hip pocket openings shall have firm straight bartacks for reinforcing strength (triangle bartacks are unacceptable). 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.

The watch pocket shall be located on the right front at the waistband. This pocket shall be a minimum opening and depth of 2¾". The front of the pocket shall be made of pocketing fabric and the back of the pocket shall be made of basic fabric and the two pieces are securely stitched together. Each corner of the pocket opening shall have firm straight bartacks.

**CLUB POCKETS:**

Club pockets #3 on both legs 3½" below front pocket opening to be 3½" wide and 7½" deep across sideseams. Be sure club pocket measures 3½" wide even after adding bartack.

## **FECHHEIMER ITEM #32269SCF continued**

### **WAISTBAND:**

The trouser will be made with the Freedom Fit® waistband system, which is designed to provide the wearer with a more comfortable and better fitting trouser. The waistband shall be constructed using the “closed method” and shall measure 2” wide when finished. 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. The top portion of the inside of the waistband is to consist of the same fabric as used for pocketing (70% Polyester 30% Cotton – minimum 80 by 62 (+/-) 2 count). The fabric is to be cut on the bias for maximum comfort. To be  $1\frac{3}{4}$ ” wide and to finish  $1\frac{1}{8}$ ” wide after construction.

Upper waistband curtain to be inner lined with stretch Ban-Rol canvas. This canvas fabric consists of a warp of 47 ends of texturized nylon and a fill of 34 ends of 750 denier polyester monofilament. The woven fabric is coated with latex, which completely encapsulates all yarns. This finish canvas fabric weighs 12.0 oz./yd<sup>2</sup>. The canvas will be cut  $1\frac{3}{8}$ ” monofilaments running vertically and have a 10% stretch.

The bottom portion of the waistband curtain will be a blend of 32% nylon, 38% polyester, 18% rubber (3 strands), 11% lycra and 1% acrylic woven  $1\frac{7}{8}$ ” wide and to finish a minimum  $1\frac{5}{8}$ ” wide. To have a minimum of 40% stretch characteristics.

Note: In a performance stretch waistband, the upper and lower portion of the band will perform different functions.

The upper portion should allow a comfort fit at the waist when bending or sitting, and must maintain a crisp, clean appearance at the outer waistband. This part of the band will stretch 10% and be firm enough to prevent waistband rollover.

The bottom portion of the waistband stretches over the hip to give support to the lower back and abdomen. In addition, this high stretch portion of the band should constantly be pressed up by the hips, preventing the slack from slipping down while being worn, even if heavy keys, change, or other items are carried in the pockets or on the belt.

The three (3) rubberized strands ensure that shirts stay tucked in for neat appearance.

### **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.

## **FECHHEIMER ITEM #32269SCF continued**

### **BELT LOOPS:**

There shall be a minimum of seven (7) belt loops, six (6) of which are to be Keystone style. Keystone loops shall measure 1¾" in width at the top and 1¼" at the bottom. The center back loop shall be a ¾" wide straight loop. The Keystone loops shall be sewn into the bottom of the waistband and the top of the 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.

### **STRIPE:**

½" cloth stripe Royal Blue sewn on top of side seam to bottom pockets. (F1873-A)

### **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 pressed open. Trousers 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.

### **STOCK SIZES:**

Trouser must be available in the following stock sizes:

REGULAR RISE:	28 – 50 (Even sizes only over 38)
SHORT RISE:	28 – 40 (Even sizes only)
LONG RISE:	32 – 42 (Even sizes only)

SEE SIZING CHART

**UNIFORM TROUSERS (Female)**  
**FECHHEIMER ITEM #35269SCF**

**FABRIC:**

Content: 55% Dacron/45% Wool two (2) ply construction in warp and filling:  
Weight: 13 - 13½ oz./linear yard (60" width) serge weave  
Tensile: Break strength 120 lbs. warp by 100 lbs. filling  
Construction: 73 ends/inch 66 picks/inch

**COLOR:**

Navy – Fabric may be dry-cleaned or laundered in home washing machine.

**DESIGN:**

Trouser shall be manufactured from a female uniform trouser pattern. The trouser styling shall incorporate a plain front, two (2) quarter top front pockets, two (2) hip pockets and a watch pocket. 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 by 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 a quarter top style with a minimum opening of 6" and a minimum depth of 5¾" measured from the bottom of the pocket opening. Front pockets to have straight bartacks (use of triangle bartacks will be cause for rejection) at 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 5½" and a minimum depth of 5¾" 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 in such a manner that there is no topstitching (topstitched hip pocket welts shall be cause for rejection). The corners of the hip pocket openings shall have firm straight bartacks for reinforcing strength (triangle bartacks are unacceptable). 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.

The watch pocket shall be located on the right front at the waistband. This pocket shall be a minimum opening and depth of 2¾". The front of the pocket shall be made of pocketing fabric and the back of the pocket shall be made of basic fabric and the two pieces are securely stitched together. Each corner of the pocket opening shall have firm straight bartacks.

**CLUB POCKETS:**

Club pockets #3 on both legs 3½" below front pocket opening to be 3½" wide and 7½" deep across sideseams. Be sure club pocket measures 3½" wide even after adding bartack.

## **FECHHEIMER ITEM #35269SCF continued**

### **WAISTBAND:**

The trouser will be made with the Freedom Fit® waistband system, which is designed to provide the wearer with a more comfortable and better fitting trouser. The waistband shall be constructed using the "closed method" and shall measure 2" wide when finished. 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. The top portion of the inside of the waistband is to consist of the same fabric as used for pocketing (70% Polyester 30% Cotton – minimum 80 by 62 (+/-) 2 count). The fabric is to be cut on the bias for maximum comfort. To be  $1\frac{3}{4}$ " wide and to finish  $1\frac{1}{8}$ " wide after construction.

Upper waistband curtain to be inner lined with stretch Ban-Rol canvas. This canvas fabric consists of a warp of 47 ends of texturized nylon and a fill of 34 ends of 750 denier polyester monofilament. The woven fabric is coated with latex, which completely encapsulates all yarns. This finish canvas fabric weighs 12.0 oz./yd<sup>2</sup>. The canvas will be cut  $1\frac{3}{8}$ " monofilaments running vertically and have a 10% stretch.

The bottom portion of the waistband curtain will be a blend of 32% nylon, 38% polyester, 18% rubber (3 strands), 11% lycra and 1% acrylic woven  $1\frac{7}{8}$ " wide and to finish a minimum  $1\frac{5}{8}$ " wide. To have a minimum of 40% stretch characteristics.

Note: In a performance stretch waistband, the upper and lower portion of the band will perform different functions.

The upper portion should allow a comfort fit at the waist when bending or sitting, and must maintain a crisp, clean appearance at the outer waistband. This part of the band will stretch 10% and be firm enough to prevent waistband rollover.

The bottom portion of the waistband stretches over the hip to give support to the lower back and abdomen. In addition, this high stretch portion of the band should constantly be pressed up by the hips, preventing the slack from slipping down while being worn, even if heavy keys, change, or other items are carried in the pockets or on the belt.

The three (3) rubberized strands ensure that shirts stay tucked in for neat appearance.

### **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.

**FECHHEIMER ITEM #35269SCF continued**

**BELT LOOPS:**

There shall be a minimum of seven (7) belt loops, six (6) of which are to be Keystone style. Keystone loops shall measure 1¾" in width at the top and 1¼" at the bottom. The center back loop shall be a ¾" wide straight loop. The Keystone loops shall be sewn into the bottom of the waistband and the top of the 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.

**STRIPE:**

½" cloth stripe Royal Blue sewn on top of side seam to bottom pockets. (F1873-A)

**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 pressed open. Trousers 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.

**STOCK SIZES:**

Trouser must be available in the following stock sizes:

REGULAR RISE:	28 – 50 (Even sizes only over 38)
SHORT RISE:	28 – 40 (Even sizes only)
LONG RISE:	32 – 42 (Even sizes only)

SEE SIZING CHART

**100% POLYESTER UNIFORM TROUSERS (Male)**  
**FECHHEIMER ITEM #32230SCF (Sap Pocket and Strip)**

**FABRIC:**

Content: Shall incorporate a washable and dry-cleanable soil release finish  
Weight: 12 - 12½ oz./linear yard (60" width) elastique weave  
Tensile: 240 lbs. warp by 212 lbs. filling

**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, two (2) hip pockets, and a watch pocket. 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 by 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 a quarter top style with a minimum opening of 6" and a minimum depth of 5¾" measured from the bottom of the pocket opening. Front pockets to have straight bartacks (use of triangle bartacks will be cause for rejection) at top and bottom of pocket openings. Pockets to be constructed using the stitch, turn, and topstitch method. Pocket facings shall 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<sup>3</sup>/<sub>8</sub>" and a minimum depth of 5¾" 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 in such a manner that there is no topstitching (topstitched hip pocket welts shall be cause for rejection). The corners of the hip pocket openings shall have firm straight bartacks for reinforcing strength (triangle bartacks are unacceptable). 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.

The watch pocket shall be located on the right front at the waistband. This pocket shall be a minimum opening and depth of 2¾". The front of the pocket shall be made of pocketing fabric and the back of the pocket shall be made of basic fabric and the two pieces are securely stitched together. Each corner of the pocket opening shall have firm straight bartack.

**CLUB POCKETS:**

Club pockets #3 on both legs 3½" below front pocket opening to be 3½" wide and 7½" deep across sideseams. Be sure club pocket measures 3½" wide even after adding bartack.



## **FECHHEIMER ITEM #32230SCF continued**

### **WAISTBAND:**

The trouser will be made with the Freedom Fit® waistband system, which is designed to provide the wearer with a more comfortable and better fitting trouser. The waistband shall be constructed using the "closed method" and shall measure 2" wide when finished. 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. The top portion of the inside of the waistband is to consist of the same fabric as used for pocketing (70% Polyester 30% Cotton – minimum 80 by 62 (+/-) 2 count). The fabric is to be cut on the bias for maximum comfort. To be  $1\frac{7}{8}$ " wide and to finish  $1\frac{1}{8}$ " wide after construction.

Upper waistband curtain to be inner lined with stretch Ban-Rol canvas. This canvas fabric consists of a warp of 47 ends of texturized nylon and a fill of 34 ends of 750 denier polyester monofilament. The woven fabric is coated with latex, which completely encapsulates all yarns. This finish canvas fabric weighs 12.0 oz./yd<sup>2</sup>. The canvas will be cut  $1\frac{1}{2}$ " wide with the monofilaments running vertically and have a 10% stretch.

The bottom portion of the waistband curtain will be a blend of 32% nylon, 38% polyester, 18% rubber (3 strands), 11% lycra and 1% acrylic woven  $1\frac{7}{8}$ " wide and to finish a minimum  $1\frac{5}{8}$ " wide. To have a minimum of 40% stretch characteristics.

Note: In a performance stretch waistband, the upper and lower portion of the band will perform different functions.

The upper portion should allow a comfort fit at the waist when bending or sitting, and must maintain a crisp, clean appearance at the outer waistband. This part of the band will stretch 10% and be firm enough to prevent waistband rollover.

The bottom portion of the waistband stretches over the hip to give support to the lower back and abdomen. In addition, this high stretch portion of the band should constantly be pressed up by the hips, preventing the slack from slipping down while being worn, even if heavy keys, change, or other items are carried in the pockets or on the belt.

The three (3) rubberized strands ensure that shirts stay tucked in for neat appearance.

### **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.

## **FECHHEIMER ITEM #32230SCF continued**

### **BELT LOOPS:**

There shall be a minimum of seven (7) belt loops, six (6) of which are to be Keystone style. Keystone loops shall measure 1¾" in width at the top and 1¼" at the bottom. The center back loop shall be a ¾" wide straight loop. The Keystone loops shall be sewn into the bottom of the waistband and the top of the 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.

### **STRIPE:**

½" Royal Blue cloth stripe sewn on top of side seam to bottom pockets. (F1873-A)

### **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 pressed open. Trousers 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.

### **STOCK SIZES:**

Trouser must be available in the following stock sizes:

REGULAR RISE: 28 – 54 (Even sizes only over 38)  
SHORT RISE: 28 – 40 (Even sizes only)

**TRAINING UNIFORM SHIRT  
LONG AND SHORT SLEEVE  
FLYING CROSS ITEM #528R5886**

**FABRIC:**

Content: 65% Polyester/35% Cotton Twill conforming to the following specifications:

Weight: 6.5 oz. per square yard

Construction: 86 warp by 52 filling yarns per square inch

Tensile: Warp 200 lbs. – filling 85 lbs.

Tear: Warp 10.2 lbs. – filling 5.9 lbs.

**COLOR:**

Dark Navy to match trousers

**STYLE:**

San Francisco Police Department BDU style.

Coat shirt with full length tail.

Back length to finish 32 ½".

Side seams to measure 20".

Fly placket with 15" metal zipper.

Sewn in military creases – one in each front, three on the back.

Convertible collar with fused in Mylar stays.

Two square breast pockets with inverted pleats and rectangular flaps.

Exterior badge reinforcement with metal eyelets.

Shoulder straps with Velcro on underside for microphone holder.

<b>SIZES:</b>	14/14.5	15/15.5	16/16.5	17/17.5	18/18.5	19	20
(S)	(M)	(L)	(XL)	(XXL)	(3XL)	(4XL)	

**SLEEVE LENGTH:** Short to finish 32"

Regular to finish 34"

Long to finish 36"

**TRAINING UNIFORM TROUSERS  
BLAUER ITEM #8810**

**SHELL FABRIC:**

The shell fabric of the garment shall be machine washable and dry-cleanable cotton blend conforming to the following specifications in order to provide user comfort, uniform appearance, durability, easy care and low maintenance cost:

Cloth Type: 6.5 oz. per square yard 2 by 1 twill weave in a 65% polyester/35% Cotton fiber blend with 10 – 12 % filling stretch that is pre-cured for wrinkle resistance and treated with a soil-release finish.

Count: Warp 87 – filling 52  
(Numerical specifications below are average values and may vary plus or minus 10%)

Tensile: Warp 190 lbs. – filling 80 lbs. (ASTM D 1682)

Tear: Warp 10.0 lbs. – filling 5.0 lbs. (ASTM D 1424)

Shrinkage: Warp 2.3% - filling 1.7% (Washed 3 cycles at 120F/125F tumble dry)  
(Appearance specifications are measured on a scale of 1-5 where 5 = excellent)

Pilling: 3 (60 minutes ASTM D 3512)

Crocking: Dry: 3.5 Wet: 2 (AATCC 8)

Color: See specified garment color.

**INTERLINING:**

Cloth Type: 100% polyester non-woven

Weight: 2.5 oz. per square yard

Break Strength: Machine direction: 5 lbs. per inch  
Across machine: 5.5 lbs. per inch

Color: Charcoal

**BINDING:**

Binding shall be 70% Polyester, 30% Cotton with bias binding 1 inch in width.

Color: Black

**POCKETING:**

For front pockets, hip pockets, crotch panels and flies

Cloth Type: 3.8 oz. per square yard twill weave 50% Polyester/50% Rayon blend with shinerred finish

Count: Warp 82 – filling 66

Tensile: Warp 94 lbs. – filling 120 lbs.

Tear: Warp 9.7 lbs. – filling 11.8 lbs.

Shrinkage: Warp 3.5% - filling 2.5% (after 3 wash cycles)

Seam Slippage: Warp 72 – filling 58

Flex Abrasion: Warp 5000+ - filling 5000+

Pilling: 3

Cleaning: Machine wash/machine dry or dry clean

Color: Pearl grey

For side pocket:

Cloth Type: 2 by 1 twill, 100% Polyester fill, Polyester/rayon warp

Color: Black

Cleaning: Machine wash/machine dry or dry clean

## **BLAUER ITEM #8810 continued**

### **BUTTONS:**

Buttons shall be 22 ligne 4 hole pure melamine plastic conforming to Type II, class D, Style 20 and 21, of U.S. Military Specification #V-B-871D. Color shall match the shell fabric.

### **ZIPPER:**

The front fly zipper shall use a nylon coil size #5 with auto-lock slider. Side pocket zipper shall use a nylon coil size #5. Color shall be black.

### **HOOK & EYE:**

The hook and eye closure will be Universal size #18 with a nickel plated finish.

### **WAISTBAND:**

The stretch waistband material shall measure 3<sup>1</sup>/<sub>4</sub>" wide and shall be composed of 83% Polyester, 14% Spandex, and 3% Nylon. There shall be an application of silicone rubber measuring 0.313" wide applied to the material to grip the shirt. The entire waistband material shall be machine washable, machine dryable, and dry-cleanable. Color: grey.

### **THREAD:**

Thread for all stitching except overedge stitching shall be size #50 cotton wrapped polyester core, vat dyed. Thread for overedge stitching shall be spun polyester size #70. Color shall match the shell fabric.

## **DESIGN AND CONSTRUCTION SPECIFICATIONS:**

### **GENERAL DESIGN:**

The uniform trousers shall be a tailored split-seam construction dress uniform style with two (2) front quarter pockets, two (2) double-section side pockets, two (2) button-tab hip pockets, and wide waistband with belt loops inserted bottom and tacked to the top. There shall be a wide elastic waistband with silicone shirt-grip stripe, permanent silicone adhesive creases on both the front and back of the legs, front crotch panels and fly lining with button tab. The patterning shall allow generous seat and thigh let out to accommodate alterations and athletic builds. The trousers shall be machine washable/dryable as well as dry-cleanable. The waistband construction and trouser patterning shall accommodate an optional removable windproof-breathable liner.

### **FRONT POCKETS:**

Front pockets shall be quarter pocket style with pockets slanting 1<sup>3</sup>/<sub>4</sub>" from the top waistband to the bottom at the side seam. Pockets shall be constructed of one piece of the specified pocketing material finishing approximately 6<sup>1</sup>/<sub>2</sub>" wide at the bottom of the pocket opening and 12<sup>1</sup>/<sub>2</sub>" long from where the pocket is sewn into the waistband. There shall be a facing of shell fabric material running from the side seam and waistband and into the pocket toward the body measuring 5" wide at the waistband and tapering to 3" at the bottom of the pocket opening. There shall be a facing of shell fabric material on the inside of the pocket away from the body measuring 1<sup>1</sup>/<sub>4</sub>" wide. There shall be a straight bartack across the top of the pocket opening 1/4" down from the waistband and a triangular bartack across the bottom of the pocket opening centered on the side seam.

## **BLAUER ITEM #8810 continued**

### **HIP POCKETS:**

Hip pockets shall be inverted double corded type with button tabs. Finished pocket opening shall measure 5.125" and finished pocket depth shall be 6". The finished pocket bag shall measure 6½" wide and shall extend down 9¼" from where it is sewn into the waistband. The button tabs shall be 0.44" wide looping constructed of two (2) plies of shell fabric and one ply of fusible interlining. The tab shall finish in a miter fold point with the ends set under the top corded welt of the pocket and shall extend 1¼" in length. There shall be two (2) straight horizontal bartacks set top and bottom on the tab to define the button opening. There shall be a button set under the pocket to secure the hip pocket. The top and bottom pocket cord shall be topstitched. All facings shall be clean finished inside the pocket bag. There shall be triangular bartacks set at each end of the pocket opening.

### **SIDE POCKETS:**

There shall be double-section side patch pockets sewn to each outside leg such that the pocket is centered vertically on the side seam of the trouser and the top of the pocket flap measures 2½" below the bottom of the front quarter pocket. The pocket shall be constructed of two ply of fabric with the outside of the pocket constructed of shell fabric and the inside of the pocket constructed from the specified pocketing. The top edge of the pocket shall be bound with the specified binding. The outer pocket shall measure 9" long and 7" wide and shall have a stitched-closed center pleat measuring 1½" wide. There shall be a strip of loop fastener 0.625" by 4" sewn horizontally to the inside top edge of the outer pocket to accept an optional Scotchlite reflective material safety package. The pocket shall have mitered bottom corners. The pocket flap shall be made of two plies of shell fabric and one ply of innerlining. The flap shall be pointed at the center and measure 7" wide and 2" high at the side and 3½" high at the center point. The flap shall be sewn across the top to the inner pocket and down both side covering the top edge of the outer pocket. The flap shall secure to the outer pocket with a piece of hook tape measuring 5/8 inch high by 1½" wide sewn to the inner ply of the flap and a corresponding piece of loop tape sewn to the outer pocket. There shall be a zipper as specified sewn behind the inner pocket and to the trouser leg such that the zipper is recessed 1 inch from the top of the pocket flap. There shall be a straight vertical bartack on all four corners of each pocket flap.

### **WAISTBAND:**

The waistband shall finish 2" wide and shall be constructed of one ply of shell fabric cut along the filling direction for maximum stretch and the specified waistband material. The finished waistband in the trouser shall stretch at least 2". There shall be two hook and eye closures reinforced with woven interlining set vertically with a continuous single needle stitch from the setting of the fly.

### **FLY:**

The right side of the fly shall be lined with a crotch reinforcement extension constructed of two plies of pocketing plus one ply of interlining and measuring 2" wide and extending down and clean finishing at the inseam. The zipper topstitch shall extend to the top of the waistband. Inserted between the lining and the shell shall be a fly tab measuring 1½" wide and extending at an upward angle so that the tab extends 1¾" along the top edge and 2½" along the bottom edge. The tab shall finish in a point with a buttonhole and the tab shall be topstitched around the edges. The left inside edge of the fly shall be bound with the specified binding. The left fly shall be J-stitched 1½" from the folded edge. The specified zipper shall be attached to the fly and the bottom of the fly opening shall be straight tacked. The top of the fly shall be secured by two (2) specified hooks and eyes set vertically.

## **BLAUER ITEM #8810 continued**

### **CROTCH LINING:**

Crotch shall be lined in the front quarters with two (2) plies of the specified pocketing material bias cut with a folded edge.

### **BELT LOOPS:**

The belt loops shall be inserted into the waistband at the bottom, belly-tacked to the trouser body ¼" down and tacked to the top of the waistband. Loops shall be 1" wide, have a 2¼" opening, and be constructed of two (2) plies of shell fabric and one ply of interlining butted on the reverse side and sewn with a looping machine. There shall be a minimum of seven (7) belt loops per pair with larger sizes getting additional pairs as required.

### **OUTLETS:**

The seat outlet shall measure 1½" on each side at the waistband tapering to 0.375" at the crotch. There shall be thigh outlets with the back side of the inseam measuring 1" at the crotch tapering to 0.375" at the knee.

### **STITCHING:**

All seams shall be sewn at 10 – 12 stitches per inch. Stitching on waistband, outseam, and inseam shall be single needle chainstitch. Stitching for seat seam shall be tandem needle chainstitch. Stitching for beltloops shall be double needle blindstitch. Overedge stitching for fronts and backs shall be 2 thread overedge stitch. All other seams shall be single needle lockstitch. Straight bartacks shall be 28 stitch count 0.375" long. Triangle bartacks shall be 124 stitch count 0.375" long on each side.

### **BUTTONHOLES:**

Buttonholes shall be eyelet end, taper bar cut-after type.

**“5-STAR” UNIFORM CAPS  
MIDWAY CAP COMPANY**

**STYLE:**

Style shall be deluxe military cap with removable cover and will be imprinted “5-Star” on the Crown Lining to assure compliance with specifications.

**DIMENSIONS:**

The dimensions of a Size 7<sup>1</sup>/<sub>8</sub> Cap shall be as follows:

Front to rear of crown – 10<sup>7</sup>/<sub>8</sub>”; side to side of crown

10<sup>3</sup>/<sub>8</sub>”; height of Cap in front – 4<sup>3</sup>/<sub>8</sub>”. All other sizes shall be in proportion.

**COVERS:**

The material shall be #1800 Navy Blue Poly Elastique. The Covers shall have a dry-cleanable bonding of not less than .093 gauge Polyurethane Foam throughout the entire top, side and front, and a Full Crown Lining of black 100% Acetate Taffeta. A sweat protector, of .004 gauge clear polyethylene film, shall cover the lining and an identification card holder in the form of a rectangle, shall be heat-sealed directly to the sweat protector. After joining the crown and the sides, the crown seam shall be double-stitched with a <sup>3</sup>/<sub>8</sub>” bias folded tape. The bottom of the cap covers shall be bound with a #20/0 black bias binding, 1<sup>5</sup>/<sub>8</sub>” wide, properly sized for correct tension and fit on the cap frame. One front snap, size #3, shall be attached through the binding at the exact center front of each cover. As a final operation, all cap cover shall be blocked on a 5-piece block in live steam and thoroughly dried.

**EYELETS:**

Each Cap Cover shall be provided with a total of five (5) metal eyelets: 1 eyelet shall be attached in the front center for proper placement of a 1-post badge; 2 eyelets will be provided on each side for ventilation.

**FRAME BAND:**

The frame band shall be 2” black genuine Midlon, a 100% nylon ventilated mesh fabric, sewn over 2” perforated plastic. The top of the band shall be bound with a black vinyl material. A ½” strip of black high-density linear polyethylene will then be sewed at the top inside edge of the band for reinforcement. The top edge of the band will be bound with a black vinyl material. A black vinyl “J” flange, with a protruding <sup>1</sup>/<sub>8</sub>” overhang, will then be sewed to the top of the band. Directly in the front and immediately below the flange, a male snap, size #3, shall be firmly attached. This band shall then be bound at the bottom with the same material as used for the cap covers.

**FRONT SUPPORT:**

The front support shall consist of two (2) pieces: the stayer and the holder. The stayer, or top part, shall be molded of black linear polyethylene of a shape to approximate the contour of the cap cover. It shall have appropriate openings for the badge post, a snap to retain the rubber grommet, and shaped with a slide at the bottom to enter the slots of the holder. The holder is formed by cutting dual slots in a piece of black linear polyethylene to accept the stayer and hold it securely. The holder is sewed to the inside front of the frame band and no staples or rivets will be required for either the holder or the stayer.



## **“5-STAR” UNIFORM CAPS continued**

### **GROMMET:**

At ½” clear tubular rubber grommet, measured and closed to exact size, shall be attached by means of a snap to the top of the stayer.

### **VISOR:**

To be made of two (2) pieces: the upper portion to consist of a nylon base with a black japanned top; the bottom piece of .095 genuine sur-v-lon with an embossed hatters’ green base. The two (2) pieces will be firmly cemented together and visors will not bubble, crack or blister. The visor shall be shape #65, set into the frame at an angle of 55 degrees and finish 1<sup>7</sup>/<sub>8</sub>” long. All visors shall be blocked to shape in heated forms.

### **FRONT STRAP:**

The front strap shall be one-piece, ½” wide, with simulate pointed loops and molded of high-density black linear polyethylene. The strap shall be held at either end with a regulation police button in nickel finish.

### **SWEATBAND:**

The sweatband shall be genuine Roan Leather, 1<sup>5</sup>/<sub>8</sub>” wide and perforated throughout. The sweatband shall be sewed into the cap with a hand-finish. A machine-finish will not be acceptable.

**TWILL UNIFORM / ACADEMY TROUSER  
RED KAP ITEM #PT10NV**

**COLOR:** Navy Blue

**FABRIC:** 8 ¼ oz. special twill

**BLEND:** 65% Fortel polyester/35% combed Cotton

**FINISH:** Post-cure durable press.

**CLOSURE:** Heavy-duty brass ratcheting zipper, button closure.

**WAISTBAND:** Innerlined for body and shape, Rokap construction, synthetic blend trim.

**POCKETS:** Two slack style front pockets, two set-in hip pockets, darts over hip pockets for better fit.

**SILHOUETTE:** Slight taper.

**OTHER:** Women sizes available.

**SIZES:** Waist 28 – 50, 4 –28

## **POLICE LEATHER JACKETS (GOLDEN BEAR)**

### **STYLE AND DETAIL SPECS:**

Black cowhide Peoria Police Department motorcycle jacket

Black quilted lining

Two front slash pockets

Open bottom, open cuff

Fold down shirt collar

Shoulder epaulets

Four inside pockets

2 with flap closures and zippers

Black fur at back inside waistband

Black knit sewn inside to back armhole

Badge holder left chest

Name tag holder right chest

Zipper front with leather zipper pull

Biswing back

Knit storm cuffs inside sleeves

Some jackets have side zippers at the waistband

Snap tab closures on sides of waistband

Body/sleeves: 2.9 – 3 oz. black cowhide leather

Lining: black 2"x 3" diamond quilt

4" wide black fur inside back waist

Black solid knit storm cuffs

Black solid knit inside lining to be sewn to back armhole

Epaulets: black cowhide leather with black nylon under epaulets

Black cowhide badge holder and name tag holder

Zippers: #9 wire antique brass center front zipper

Zippers: #5 antique brass/2 on inside pockets

Zippers: some styles require 2 additional zippers at the side waistband/#5 antique brass

All government black eyelets and snaps

**Pictures available upon request**

**FEATHER WEIGHT RAINCOAT (Long) WITH WATERPROOF BREATHABLE FABRIC  
COLOR: BLACK REVERSING TO FLUORESCENT YELLOW**

**GENERAL REQUIREMENTS:**

1. Failure to complete the compliance questions following each section below will result in automatic rejection of such bids as non-responsive.
2. All garment details not specifically described herein including tailoring, styling, construction, materials and components must match the standard reference sample.
3. Pre-bid samples are required at the time of the bid opening.
4. Samples may be subjected to laboratory testing at the discretion of the contracting officer. Bidders are responsible for all testing costs of their sample garments.
5. Bidders must enclose evidence (dated manufacturers catalogs or similar) that this item is currently a commercial in-stock style. The successful bidder will provide a full size run of try-on garments within 10 days for agency approval.
6. All products will have a printed warranty hangtag covering (at minimum) defects in materials and workmanship for three (3) years.
7. Garments must meet ANSI / ISEA 107-2004 class II requirements.
8. Garments shall meet Emergency Medical Garment requirements of the NFPA 1999, STANDARD ON PROTECTIVE CLOTHING FOR EMERGENCY MEDICAL OPERATIONS, 2003 Edition.
9. Garments must be manufactured to ISO 9001 quality assurance standard. (AG1102)

**SHELL FABRIC:**

10. CROSSTECH® waterproof-breathable membrane laminated between a 2.18 oz. per square yard, 100% textured polyester, 70 denier plain weave face fabric (Color: see specified garment color) and a knit polyester tricot backing fabric (Color: see specified garment high visibility color) resulting in a washable waterproof material with high moisture vapor transmission, bloodborne pathogen resistance and common chemical resistance. Both dark and high visibility sides of the fabric shall be treated with a durable water repellent finish.

**TRIM:**

11. Hook and Loop: woven nylon base (Color: black)
12. Interlining: 100% Cotton Osnaburg
13. Reflective trim: silver 3M Scotchlite™ 2 inch silver reflective fabric
14. Seam tape: 3 layer Gore-Seam tape 1 inch wide compatible with CROSSTECH® membrane. (Color: match high visibility side of jacket)
15. Snaps: non-rusting, 24 ligne, gunmetal finish on brass, heavy-duty closure

**DESIGN AND CONSTRUCTION:**

16. Reversible featherweight waterproof windproof breathable full-length raincoat.
17. ANSI / ISEA 107 Class II certified. (Hi-vis yellow only)
18. Adjustable neck and cuff closures.
19. Double snap-over storm fly front.
20. Go-through side openings.
21. High-contrast Scotchlite™ reflective trim around chest, back, sleeves and cuffs.
22. Reversible to high visibility fluorescent with reflective trim.
23. Waterproof front zipper with sport collar zips to top.
24. Front pockets with waterproof zippers on both hi-vis and dark sides.

## FEATHER WEIGHT RAINCOAT (Long) WITH WATERPROOF BREATHABLE FABRIC continued

### CUSTOMIZATION:

- 25. Emblems (supplied by the agency) sewn on as specified
- 26. Optional upgrade to ANSI Class II with 2 ¾" reflective stripe above hem
- 27. Badge tabs
- 28. Stock or custom graphics – 4" POLICE on high vis side
- 29. Snap-off hood

### WATERPROOF-BREATHABLE PERFORMANCE:

- 30. Moisture Vapor Transmission Rate (g/m<sup>2</sup>/24 hr)
  - a. Procedure B (upright cup) 600 Minimum ASTM E 96-93
  - b. Procedure BW (inverted cup) 3600 Minimum ASTM E 96-93
- 31. Hydrostatic Resistance (psi): 140 Minimum FED-STD-191A 5512
- 32. Low Pressure Water Permeability:
  - a. Initial: No Leakage FED-STD-191A 5516
  - b. After Cold Flex: Warp No Leakage ASTM D 2097-69 (1980)  
Fill No Leakage ASTM D 2097-69 (1980)
  - c. After 100 Hours of continuous Wet Flex: No Leakage
- 33. High Pressure Water Permeability:
  - a. Initial: No Leakage BS 3424: Part 26: 1990 Method 29A
  - b. After Exposure to Contamination: No Leakage BS 3424: Part 26: 1990 Method 29A
  - c. After Synthetic Perspiration: No Leakage BS 3424: Part 26: 1990 Method 29A
- 34. Seam Tape Water Permeability:
  - a. Initial: No Leakage FED-STD-191A 5516
  - b. After 5 Laundry Cycles: No Leakage FED-STD-191A 5516 ANSI/AATCC 135

(Refer to Addendum for waterproof-breathable test methods)

(Measured Property Acceptance Criteria: For moisture vapor transmission rate and hydrostatic resistance, the mean of each sample unit must meet the requirement specified. The mean is the average of five cross-web specimens. For water permeability testing, each individual specimen must meet the requirement specified.)

### STANDARD SIZE RANGE:

- 35. Unisex:
  - a. Regular: XS – 3XL
  - b. Tall: M – 3XL

### MEASUREMENTS:

- 36. Regular Length: Size: L
  - a. Chest: 53 (plus or minus 0.75 inches)
  - b. Sweep: 59 (plus or minus 0.75 inches)
  - c. Back Length: 47.5 (plus or minus 0.75 inches)
  - d. Sleeve Inseam: 20 (plus or minus 0.5 inches)

## FEATHER WEIGHT RAINCOAT (Long) WITH WATERPROOF BREATHABLE FABRIC continued

### ADDENDUM - WATERPROOF-BREATHABLE TEST METHODS:

1. The knit side of the laminated cloth shall face the water. The free stream air velocity shall be  $550 \pm 50$  fpm as measured at least 2 inches from any surface. The test shall be for 24 hours and weight measurements shall be taken only at the start and completion of the test. At the start of the 24 hour test period, the air gap between the water surface and the back of the specimen shall be  $3/4 \pm 1/16$  inch. Five specimens shall be tested. The test chamber shall be  $73.4 \pm 1^\circ\text{F}$  and relative humidity shall be  $50 \pm 2\%$ . The face of the rim of the test dish shall project  $1/32$ " into the tunnel.
2. The knit side of the laminated cloth shall face the water. The free stream air velocity shall be  $550 \pm 50$  fpm as measured at least 2 inches from any surface. The test shall be for 2 hours and weight measurements shall be taken only at the start and completion of the test. Five specimens shall be tested. Specimens shall be sealed in any manner, which prevents wicking and/or leakage of water out of the cup. The test chamber shall be  $73.4 \pm 1^\circ\text{F}$  and relative humidity shall be  $50 \pm 2\%$ . The face of the rim of the test dish shall project  $1/32$ " into the tunnel.
3. The water pressure shall be applied to the knit side of the laminated cloth.
4. The knit side of the laminated cloth shall contact the water. The hydrostatic head shall be 30 inches (1.1 psi) and shall be held for 3 minutes. Leakage is defined as the appearance of water any place within the 4.5 inch diameter test area. The test may be performed using any device which tests the same specimen area at the equivalent pressure. In case of dispute, the apparatus described in FED-STD-191A Method 5516 shall be used.
5. Ten warp and ten fill specimens  $3.25" \times 4.5"$  shall be selected from each sample unit. The 3.25" dimension is the test direction. Specimens shall be flexed for 20,000 cycles as specified in ASTM-D 2907 and as follows. Mark the knit side of each specimen with two lines 1.7 inches apart and perpendicular to the test direction. The area between the lines is the test area and shall be centered on the knit side of the specimen. Wrap the specimens around fully extended pistons with the knit side out. The test area lines shall meet evenly and shall line up with the edges of the pistons. Clamp in place making sure the clamps are not in the test area. Check specimen for smoothness and tautness (wrinkles cause improper flexing). The distance between the pistons shall be 1.7" in the open position and 0.5" in the closed position as measured from the bottom of the upper piston and top of the lower piston. Place the test apparatus with mounted specimens in a test chamber at  $-25 \pm 2^\circ\text{F}$  for a one hour conditioning period and then flex in the test chamber at  $-25 \pm 2^\circ\text{F}$ . After flexing, test for water permeability as in footnote 4 except that the orifice of the tester shall be modified to accommodate the smaller specimen size as shown in Attachment 1.
6. One 14 inch by full width specimen shall be selected from each sample unit. The specimens shall be agitated using the "normal" cycle in an automatic home laundering machine as specified in AATCC 135-1992 except that the machine shall be capable of continuous agitation. The water level shall be maintained at  $16 \pm 1$  gallons, and the water temperature shall be  $32 \pm 9^\circ\text{C}$ . The load shall be  $2 \pm 0.2$  pounds. The specimen shall be removed from the washer after 100 hours of continuous agitation. The specimen shall be air dried and then tested for water permeability at three sites across the width of the specimen according to footnote 4.

## FEATHER WEIGHT RAINCOAT (Long) WITH WATERPROOF BREATHABLE FABRIC continued

7. The water pressure shall be applied to the knit side of the laminated cloth from below the test specimen. The maximum pressure of 25 psi shall be attained in 2 minutes  $\pm$  20 seconds and shall be applied for 5 minutes. Leakage is defined as the appearance of water any place within the test area.
8. Place a 6" x 6" piece of blotting paper on a flat surface and cover with a 10" x 10" test specimen with the face side up. Weigh out  $2.0 \pm 0.1$  grams of solid contaminant or pipette 2.0 ml of liquid contaminant. Place the contaminant on the center of the specimen and cover with a 6" x 6" piece of glassine paper. Place a 4 pound weight on the glassine paper directly over the contaminated area. Allow the weight to remain on the specimen for 30 minutes. Remove the weight and glassine paper and allow the specimen to sit undisturbed for an additional 30 minutes. Wipe off any excess contaminant using a fresh piece of blotting paper and test for water permeability as in footnote 8/ except that the water pressure shall be applied for 3 minutes.
9. One specimen per sample unit shall be tested for water permeability after exposure to synthetic perspiration. The specimen shall be not less than six inches in diameter. The test cups shall accommodate this size specimen and shall have a depth of at least one inch. The cups shall be sealed to prevent leakage. The solution shall contact the knit side of the laminate.

Synthetic perspiration shall be prepared by stirring the following ingredients into 500 ml of distilled water:

- 3 grams sodium chloride
- 1 gram predigested protein
- 1 gram n-propyl propionate
- 0.5 gram lecithin (phosphatidyl choline)

The predigested protein shall contain the following amino acids:

<u>Ingredient</u>	<u>Milligrams (mg)</u>
Lysine	82.5
Histidine	27.5
Arginine	40.0
Aspartic acid	72.5
Threonine	42.5
Serine	50.0
Glutamic acid	197.5
Proline	92.5
Glycine	22.5
Alanine	28.7
Cystine	4.7
Valine	66.2
Methionine	30.0
Isolencine	53.8
Leucine	87.5
Tyrosine	51.3
Phenylalanine	48.8
Tryptophane	18.8

## FEATHER WEIGHT RAINCOAT (Long) WITH WATERPROOF BREATHABLE FABRIC continued

The solution shall be stirred continuously and heated to  $50 \pm 1^{\circ}\text{C}$ , then covered and cooled to approximately  $35^{\circ}\text{C}$ .

The solution shall be stirred such that any solid particles are suspended in solution and poured into the test cup. The cup shall be inverted to allow the synthetic perspiration to evaporate through the specimen.

After the solution has evaporated through the specimen, such that no more than 0.125 inch of solution remains, the specimen shall be removed from the cup, rinsed in warm water, dried and tested for water permeability as specified in footnote 8 except that the water pressure shall be applied for 3 minutes.

10. A minimum of 3 straight seams and 2 cross-over seams should be tested prior to laundry cycle testing and remain waterproof (no leakage) when tested at 2 psi for 3 minutes with the seam tape side facing up, away from the water challenge. Leakage is defined as the appearance of water any place within the 4.5 inch diameter test area since the seam tape process can damage the fabric adjacent to the tape. The test may be performed using any device which tests the same specimen area at the equivalent pressure. In case of dispute, the apparatus described in FED-STD-191A Method 5516 shall be used.
11. A minimum of 3 straight seams and 2 cross-over seams should be tested after five (5) home laundry cycles and remain waterproof (no leakage) when tested at 2 psi for 3 minutes with the seam tape side facing up, away from the water challenge. Leakage is defined as the appearance of water any place within the 4.5 inch diameter test area since the seam tape process can damage the fabric adjacent to the tape. The test may be performed using any device which tests the same specimen area at the equivalent pressure. In case of dispute, the apparatus described in FED-STD-191A Method 5516 shall be used. Laundry testing should be performed in accordance with the procedure specified in Machine Cycle 3, Wash Temperature III, and Drying Procedure Aiii of ANSI/AATCC 135.



**FEATHER WEIGHT RAINJACKET (Short) WITH CROSSTECH FABRIC  
COLOR: BLACK AND HIGH VIS YELLOW**

**GENERAL REQUIREMENTS:**

1. Failure to complete the compliance questions following each section below will result in automatic rejection of such bids as non-responsive.
2. All garment details not specifically described herein including tailoring, styling, construction, materials, and components must match the standard reference sample.
3. Pre- bid samples are required at the time of the bid opening.
4. Samples may be subject to laboratory testing at the discretion of the contracting officer. Bidders are responsible for all testing costs of their sample garments.
5. Bidders must enclose evidence (dated manufacturers catalogs or similar) that this item is currently a commercial in-stock style. The successful bidder will provide a full size run of try-on garments within 10 days for agency approval.
6. All products will have a printed warranty hangtag covering (at minimum) defects in materials and workmanship for three (3) years.
7. Garments must meet ANSI / ISEA 107-2004 class II requirements.
8. Garments must be manufacturer to ISO 9001 quality assurance standard. (AG1103)
9. Garments shall meet the Emergency Medical Garment requirements of the NFPA 1999, STANDARD ON PROTECTIVE CLOTHING FOR EMERGENCY MEDICAL OPERATIONS, 2003 Edition.

**SHELL FABRIC:**

10. CROSSTECH® waterproof-breathable membrane laminated between a 2.18 oz. per square yard, 100% textured polyester, 70 denier plain weave face fabric (Color: see specified garment color) and a knit polyester tricot backing fabric (Color: see specified garment high visibility color) resulting in a washable waterproof material with high moisture vapor transmission, bloodborne pathogen resistance and common chemical resistance. Both dark and high visibility sides of the fabric shall be treated with a durable water repellent finish.

**TRIM:**

11. Interlining: 100% Cotton Osnaburg
12. Reflective trim: silver 3M Scotchlite™ 2 inch silver reflective fabric.
13. Hook and Loop: woven nylon base. (Color: black)
14. Seam Tape: 3 layer Gore-Seam tape 1 inch wide compatible with Crosstech membrane. (Color: match high visibility side of jacket)
15. Snaps: non-rusting, 24 ligne, gunmetal finish on brass, heavy duty closure.

**DESIGN AND CONSTRUCTION:**

16. Reversible featherweight waterproof windproof breathable full-length raincoat.
17. Adjustable neck and cuff closures.
18. Badge tabs on both sides.
19. Double snap-over storm fly front.
20. High contrast Scotchlite™ reflective trim around chest, back, sleeves and cuffs.
21. Snap equipment side openings.
22. Reversible to high visibility fluorescent with reflective trim.
23. Equipment side opening with waterproof zippers.
24. Waterproof drawstring hood with snap attachments to both sides of the jacket.
25. Front pockets with waterproof zippers on both hi-vis and dark sides.
26. Waterproof front zipper with sport collar zips to top/

**FEATHER WEIGHT RAINJACKET (Short) WITH CROSSTECH FABRIC continued**

- 27. Emblems (supplied by the agency) sewn on as specified.
- 28. Name tab
- 29. Stock and custom graphics – 4” POLICE on high vis side
- 30. Hood

**WATERPROOF-BREATHABLE PERFORMANCE**

- 31. Weight 6.0 Maximum (oz./sq. yard)                      ASTM D 3776-96    Option C
  
- 32. Moisture Vapor Transmission Rate (g/m<sup>2</sup>/24hr)
  - Procedure B                      600 Minimum              ASTM E 96-93
  - Procedure BW                      3600 Minimum              ASTM E 96-93
- 33. Hydrostatic Resistance (psi):                      100 Minimum              FED-STD-191A 5512
- 34. Low Pressure Water Permeability:
  - Initial:                      No Leakage    FED-STD-191A 5516
  - After Cold Flex:                                           ASTM D 2097-69 (1980)
    - Warp                      No Leakage
    - Fill                      No Leakage
- 35. Low Pressure Water Permeability:
  - After 100 hours of continuous Wet Flex (agitation)              No Leakage
- 36. High Pressure Water Permeability:
  - Initial:                      No Leakage    BS 3424: Part 26: 1990 Method 29A
  - After DEET Insect Repellent:                      No Leakage    BS 3424: Part 26: 1990 Method 29A
  - After Unleaded Gasoline:                      No Leakage    BS 3424: Part 26: 1990 Method 29A
  - After Synthetic Perspiration:                      No Leakage    BS 3424: Part 26: 1990 Method 29A
- 37. Water Repellency:
  - Initial
    - Dark Side                      90 Minimum    AATCC 22-1996
    - High Visibility Side                      90 Minimum
  - After 5 Laundry Cycles
    - Dark Side                      80 Minimum    AATCC 135-2001
    - High Visibility Side                      80 Minimum    (3) IIIA (iii)
- 38. Liquid Blood and Body Fluid Penetration Resistance
  - After 25 Laundry Cycles                      No Penetration              ASTM F1671
- 39. "Common Chemical: Penetration Resistance
  - After 25 Laundry Cycles                      No Penetration              ASTM F903C

(Refer to Addendum for waterproof-breathable test methods. All documented testing for waterproof breathable and common chemical performance must be from the same laboratory and from the same fabric swatches or garment sample.)

(Measured Property Acceptance Criteria: For moisture vapor transmission rate and hydrostatic resistance, the mean of each sample unit must meet the requirement specified. The mean is the average of five cross-web specimens. For water permeability testing, each individual specimen must meet the requirement specified.)

## FEATHER WEIGHT RAINJACKET (Short) WITH CROSSTECH FABRIC continued

### STANDARD SIZE RANGE:

40. Unisex:

c. Regular: XS – 3XL

d. Tall: M – 3XL

### MEASUREMENTS:

41. Regular Length: Size: L

e. Chest: 53 (plus or minus 0.75 inches)

f. Sweep: 59 (plus or minus 0.75 inches)

g. Back Length: 32 (plus or minus 0.75 inches)

h. Sleeve Inseam: 20 (plus or minus 0.5 inches)

### ADDENDUM - WATERPROOF-BREATHABLE TEST METHODS:

1. The knit side of the laminated cloth shall face the water. The free stream air velocity shall be  $550 \pm 50$  fpm as measured at least 2 inches from any surface. The test shall be for 24 hours and weight measurements shall be taken only at the start and completion of the test. At the start of the 24 hour test period, the air gap between the water surface and the back of the specimen shall be  $3/4 \pm 1/16$  inch. Five specimens shall be tested. The test chamber shall be  $73.4 \pm 1^\circ\text{F}$  and relative humidity shall be  $50 \pm 2\%$ . The face of the rim of the test dish shall project  $1/32$ " into the tunnel.
2. The knit side of the laminated cloth shall face the water. The free stream air velocity shall be  $550 \pm 50$  fpm as measured at least 2 inches from any surface. The test shall be for 2 hours and weight measurements shall be taken only at the start and completion of the test. Five specimens shall be tested. Specimens shall be sealed in any manner which prevents wicking and/or leakage of water out of the cup. The test chamber shall be  $73.4 \pm 1^\circ\text{F}$  and relative humidity shall be  $50 \pm 2\%$ . The face of the rim of the test dish shall project  $1/32$ " into the tunnel.
3. The water pressure shall be applied to the knit side of the laminated cloth.
4. The knit side of the laminated cloth shall contact the water. The hydrostatic head shall be 30 inches (1.1 psi) and shall be held for 3 minutes. Leakage is defined as the appearance of water any place within the 4.5 inch diameter test area. The test may be performed using any device which tests the same specimen area at the equivalent pressure. In case of dispute, the apparatus described in FED-STD-191A Method 5516 shall be used.
5. Ten warp and ten fill specimens  $3.25" \times 4.5"$  shall be selected from each sample unit. The 3.25" dimension is the test direction. Specimens shall be flexed for 20,000 cycles as specified in ASTM-D 2907 and as follows. Mark the knit side of each specimen with two lines 1.7 inches apart and perpendicular to the test direction. The area between the lines is the test area and shall be centered on the knit side of the specimen. Wrap the specimens around fully extended pistons with the knit side out. The test area lines shall meet evenly and shall line up with the edges of the pistons. Clamp in place making sure the clamps are not in the test area. Check specimen for smoothness and tautness (wrinkles cause improper flexing). The distance between the pistons shall be 1.7" in the open position and

## FEATHER WEIGHT RAINJACKET (Short) WITH CROSSTECH FABRIC continued

0.5" in the closed position as measured from the bottom of the upper piston and top of the lower piston. Place the test apparatus with mounted specimens in a test chamber at  $-25 \pm 2^{\circ}\text{F}$  for a one hour conditioning period and then flex in the test chamber at  $-25 \pm 2^{\circ}\text{F}$ . After flexing, test for water permeability as in footnote 4 except that the orifice of the tester shall be modified to accommodate the smaller specimen size as shown in Attachment 1.

6. One 14 inch by full width specimen shall be selected from each sample unit. The specimens shall be agitated using the "normal" cycle in an automatic home laundering machine as specified in AATCC 135-1992 except that the machine shall be capable of continuous agitation. The water level shall be maintained at  $16 \pm 1$  gallons, and the water temperature shall be  $32 \pm 9^{\circ}\text{C}$ . The load shall be  $2 \pm 0.2$  pounds. The specimen shall be removed from the washer after 100 hours of continuous agitation. The specimen shall be air dried and then tested for water permeability at three sites across the width of the specimen according to footnote 4.
7. The water pressure shall be applied to the knit side of the laminated cloth from below the test specimen. The maximum pressure of 25 psi shall be attained in 2 minutes  $\pm$  20 seconds and shall be applied for 5 minutes. Leakage is defined as the appearance of water any place within the test area.
8. Place a 6" x 6" piece of blotting paper on a flat surface and cover with a 10" x 10" test specimen with the face side up. Weigh out  $2.0 \pm 0.1$  grams of solid contaminant or pipette 2.0 ml of liquid contaminant. Place the contaminant on the center of the specimen and cover with a 6" x 6" piece of glassine paper. Place a 4 pound weight on the glassine paper directly over the contaminated area. Allow the weight to remain on the specimen for 30 minutes. Remove the weight and glassine paper and allow the specimen to sit undisturbed for an additional 30 minutes. Wipe off any excess contaminant using a fresh piece of blotting paper and test for water permeability as in footnote 8 except that the water pressure shall be applied for 3 minutes.
9. One specimen per sample unit shall be tested for water permeability after exposure to synthetic perspiration. The specimen shall be not less than six inches in diameter. The test cups shall accommodate this size specimen and shall have a depth of at least one inch. The cups shall be sealed to prevent leakage. The solution shall contact the knit side of the laminate.

Synthetic perspiration shall be prepared by stirring the following ingredients into 500 ml of distilled water:

- 3 grams sodium chloride
- 1 gram predigested protein
- 1 gram n-propyl propionate
- 0.5 gram lecithin (phosphatidyl choline)

## FEATHER WEIGHT RAINJACKET (Short) WITH CROSSTECH FABRIC continued

The predigested protein shall contain the following amino acids:

<u>Ingredient</u>	<u>Milligrams (mg)</u>
Lysine	82.5
Histidine	27.5
Arginine	40.0
Aspartic acid	72.5
Threonine	42.5
Serine	50.0
Glutamic acid	197.5
Proline	92.5
Glycine	22.5
Alanine	28.7
Cystine	4.7
Valine	66.2
Methionine	30.0
Isoleucine	53.8
Leucine	87.5
Tyrosine	51.3
Phenylalanine	48.8
Tryptophane	18.8

The solution shall be stirred continuously and heated to  $50 \pm 1^{\circ}\text{C}$ , then covered and cooled to approximately  $35^{\circ}\text{C}$ .

The solution shall be stirred such that any solid particles are suspended in solution and poured into the test cup. The cup shall be inverted to allow the synthetic perspiration to evaporate through the specimen.

After the solution has evaporated through the specimen, such that no more than 0.125 inch of solution remains, the specimen shall be removed from the cup, rinsed in warm water, dried and tested for water permeability as specified in footnote 8 except that the water pressure shall be applied for 3 minutes.

10. One 14 inch by full width specimen shall be selected from each sample unit. The specimens shall be subjected to 25 cycles of washing and drying in accordance with the procedure specified in Machine Cycle 3, Wash Temperature III and Drying Procedure Aiii as specified in AATCC 135-1992. The specimen shall then be subjected to ASTM F 1671 in three locations and checked for viral penetration.
11. One 14 inch by full width specimen shall be selected from each sample unit. The specimens shall be subjected to 25 cycles of washing and drying in accordance with the procedure specified in Machine 3, Wash Temperature III and Drying Procedure Aiii as specified in AATCC 135-1992. The specimen shall then be subjected to ASTM F 903C in three locations and checked for resistance to the following "common chemicals" as defined by the National Fire Protection Association: battery acid (37% sulfuric acid); hydraulic fluid; gasoline (reference fuel C); AFFF (aqueous fire fighting foam); and swimming pool chlorine.

## **FEATHER WEIGHT RAINJACKET (Short) WITH CROSSTECH FABRIC continued**

The outside shell side of the fabric shall face the challenge fluids. The duration of the test shall be 1 hour (5 minutes at ambient pressure, 1 minute at 2 psi and 54 minutes at ambient pressure). Any liquid strike though is considered a failure.

12. A minimum of 3 straight seams and 2 cross-over seams should be tested prior to laundry cycle testing and remain waterproof (no leakage) when tested at 2 psi for 3 minutes with the seam tape side facing up, away from the water challenge. Leakage is defined as the appearance of water any place within the 4.5 inch diameter test area since the seam tape process can damage the fabric adjacent to the tape. The test may be performed using any device which tests the same specimen area at the equivalent pressure. In case of dispute, the apparatus described in FED-STD-191A Method 5516 shall be used.
13. A minimum of 3 straight seams and 2 cross-over seams should be tested after five (5) home laundry cycles and remain waterproof (no leakage) when tested at 2 psi for 3 minutes with the seam tape side facing up, away from the water challenge. Leakage is defined as the appearance of water any place within the 4.5 inch diameter test area since the seam tape process can damage the fabric adjacent to the tape. The test may be performed using any device which tests the same specimen area at the equivalent pressure. In case of dispute, the apparatus described in FED-STD-191A Method 5516 shall be used. Laundry testing should be performed in accordance with the procedure specified in Machine Cycle 3, Wash Temperature III, and Drying Procedure AIII of ANSI/AATCC 135.

**BLAUER 9810Z WAIST-LENGTH JACKET WITH B.DRY® FABRIC (Seasonal Jacket)**  
**COLOR: NAVY**

**GENERAL REQUIREMENTS:**

1. Failure to complete the compliance questions following each section below will result in automatic rejection of such bids as non-responsive.
2. All garment details not specifically described herein including tailoring, styling, construction, materials and components must match the standard reference sample
3. Pre-bid samples are required at the time of the bid opening.
4. Samples may be subjected to laboratory testing at the discretion of the contracting officer. Bidders are responsible for all testing costs of their sample garments.
5. Bidders must enclose evidence (dated manufacturers catalogs or similar) that this item is currently a commercial in-stock style. The successful bidder will provide all full size run of try-on garments within 10 days for agency approval.
6. All products will have a printed warranty hangtag covering (at minimum) defects in materials and workmanship for three (3) years.
7. Garments must be manufacturer to ISO 9001 quality assurance standard. (AG2200)

**SHELL FABRIC:**

8. 70 denier warp and 140 denier filling 100% Nylon Ripstop weave. Honeycomb pattern printed urethane non-ravel backcoating to insure breathability, prevent seam slippage and to maintain shell fabric appearance. (Color: see specified garment color)

**LINING FABRICS:**

9. The permanent waterproof-breathable lining shall consist of a B.DRY® waterproof-breathable membrane that is machine washable.
10. Removable insulated Liner for Body: 6 inch diamond pattern quilted insulation package. 6 oz per square yard. Polyester velour pile fleece face fabric for body. 70 denier nylon taffeta face fabric for sleeves. Thermolite Plus or B.WARM BSCL-100 insulation for sleeves and BSCL-125 for body. 70 denier nylon taffeta backing fabric for body and sleeves. Fiber migration resistant construction and treatment with no added layers of scrim. Machine washable / dryable, dry cleanable and can be pressed. Shrinkage less than 2%. (Color: black)

**TRIM:**

11. Brushed pocketing: 100% polyester tricot. (Color: black)
12. Pocketing: 65% polyester 35 % cotton. (Color: black)
13. Interlining: 100% polyester non-woven.
14. Binding: 100% nylon 70 denier taffeta plain weave.
15. Elastic: Spandex, knitted elastic, dry cleanable
16. Metal Uniform Buttons: 24 ligne nickel
17. Ribbon Loops: 0.5 inch grosgrain (Color: black)
18. Reflective Trim: 1 inch wide 3M's Schotchlite silver reflective fabric.
19. Seam Tape: waterproof seam sealing tape compatible with the permanent waterproof-breathable lining. (Color: Clear)

## **BLAUER 9810Z WAIST-LENGTH JACKET WITH B.DRY® FABRIC continued**

### **20. Zippers:**

- a. Front zipper: delrin, one-way, size #5, 24 inches
  - b. Sleeve underarm zippers: nylon coil, one-way, size #3, 10 inches
  - c. Inside pocket zipper: nylon coil, one-way zipper, size #3, 6.5 inches
  - d. Liner zipper: delrin, one-way, size #3, 44 inches
  - e. Side vent zipper: nylon coil, one-way, size #5, 9.5 inches
  - f. (Zipper lengths specified are for size L / Reg Color: black)
21. Snaps: 20 ligne prong style with closed backs, gunmetal finish on brass, heavy-duty closure, 24 ligne nylon cap. (Color: black)
22. Hook and Loop: woven nylon base (Color: black)
23. Eyelets: aluminum (Color: black)

### **DESIGN AND CONSTRUCTION:**

24. Waterproof by design style.
25. Waist length with Shirred back waistband
26. Front zipper closure covered by double storm flaps.
27. Sport collar.
28. Zip-out full body and sleeve quilted insulated liner.
29. Drop shoulder.
30. Elasticized cuff with hook and loop cuff closure.
31. Underarm sleeve zippers for access to shell.
32. Vertical zipper welt pockets.
33. Front and back yokes conceal deploy-on-demand front and rear pull-down panels that can be lettered.
34. Adjustable cuffs.
35. Zippered side openings with elasticized snap tabs.
36. Double entry lower pockets with flaps.
37. Inside zippered security pocket.
38. Badge holder on left breast.
39. Hidden Scotchlite safety package deploys from under cuffs and behind collar.
40. Permanent epaulets with 24 ligne metal buttons

### **CUSTOMIZATION:**

41. Emblem(s): supplied by agency, sewn on as specified
42. Name Tab
43. Hood
44. Microphone Tab
45. Reflective "police" on drop down panels
46. Unisex:       Short:       XS – L  
                  Regular:     S – 3XL  
                  Tall:         M – 3XL
47. Unisex Regular Length: Size L
  - a. Chest:         54     (plus or minus 0.75 inches)
  - b. Sleeve:       37     (plus or minus 0.5 inches)
  - c. Back Length:  24.5  (plus or minus 0.75 inches)



**DRESS BLOUSE  
FECHHEIMER MODEL # 34891**

**MODEL NUMBER**

To be Fechheimer Brothers Company Patrol Dress Coat #34891

**MATERIAL**

55% Dacron / 45% Wool Weight: 14-14.5 OZ Weave: Serge Color: Navy Blue

**STYLE**

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

**BUTTON**

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

**COLLAR**

Shall not be over 1 7/8" wide in back when finished. Under collar to be made of prepadded under collar cloth.

**EDGES & SEAMS**

Edges to be double stitched 1/4". Plain seams, pressed open.

**POCKETS**

Outside front pockets to be 4 false, 3 pointed flaps, with 24 Ligne button and buttonhole in center point. The upper flap to be 5 1/2" wide, lower flaps 8" wide with both sets of flaps being 2 1/2 " deep. Corners to be sewn down. To have one (1) breast pocket, reinforced with self cloth, approximately 6" wide and 6" deep. Flaps double stitched 1/4".

**POCKETING**

Inside pockets to be Selisia.

**LINING**

Coat to be fully lined.

**VENTS**

Shall have two (2) side vents 9" long that close to the back with a zipper on each vent.

## **DRESS BLOUSE - FECHHEIMER MODEL # 34891 continued**

### **BADGE TABS**

Separate badge tab made of same material as the garment, approximately 1 ½ " wide and 2 ¼" long with two (2) metal eyelets, approximately 1 ½" 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, excepting shoulder strap buttonholes, shall be made to a full ½" from the edges of the seams and pocket flaps. The ends of the buttonholes shall be bartacked. All buttonholes to be "cut after" machine made buttonholes. All thread used in making buttonholes shall be black buttonhole thread, tailor's button twist, colorfast and guaranteed against fading.

### **SWEAT SHIELDS**

A 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 STRAPS**

To be sewn in sleeve seam directly on tip of the shoulder. The strap shall come under the collar and fasten with 24 Ligne metal button at the edge of the collar. Cross stitched. Edges double stitched ¼".

### **OUTLETS**

All body seams to have outlets of not less than ¾". Turn up at sleeve cuffs to be not less than 2 ½".

### **LABELS**

Garment must be made in the United States of America and bear a union label.

## SIDE POCKET SHORTS (OFFICER)

### **COLOR:**

Police Blue

### **SHELL FABRIC:**

6.5 oz per square yard 2 x 1 twill weave in a 65% polyester / 35% cotton fiber blend with 10 – 12% filling stretch that is pre-cured for wrinkly resistance and treated with a soil-release finish. Machine washable and dry cleanable cotton blend provides user comfort, uniform appearance, durability, and easy care. (Color: see specified garment color)

### **TRIM:**

Pocketing: 70/30 polyester cotton twill, not less than 3.0 oz Sq. yd  
Interlining: polyester non-woven  
Binding: polyester/cotton bias cut  
Waistband: polyester, spandex, nylon blend with double strip of silicone shirt grip stretch edge control  
Fly zipper: nylon coil #5 with auto lock slider  
Side Pocket Zipper: nylon coil #5 with auto lock slider  
Hook and eyes: nickel-plated  
Buttons: melamine, 22 ligne, matching shell fabric

### **DESIGN AND CONSTRUCTION:**

Front quarter pockets, double section-side pockets and inverted double cord hip pockets with button tabs.

All pockets secured with bartacks.

Stretch waistband.

Interlined wide belt loops inserted in bottom of waistband and tacked at top.

Double hook and eye closure.

Quarter linings in front quarters.

Outlets in waistband (back) and thigh inseam.

Tandem needle seat seam.

Seat, inseam and out seams pressed open.

10-12 stitches per inch (all seams).

Permanent silicone adhesive creases, front and back.

### **CUSTOMIZATION (OPTIONAL):**

Removable Scotchlite Reflective Package.

Removable identification package.

### **STANDARD SIZE RANGE:**

Men's: Regular Length: even waist sizes 28 – 54; odd sizes 31 – 37

Women's: Regular Length: even dress sizes 6 – 24

## SIDE POCKET SHORTS continued

### MEASUREMENTS:

Men's:	Regular Length:	Waist Size 36	
a. ½ Waist:	18		(plus 0.25 inches)
b. Seat:	23		(plus or minus 0.25 inches)
c. Inseam:	8		(plus or minus 0.25 inches)
d. Out seam:	17.5		(plus or minus 0.25 inches)
e. Front Rise:	10.25		(plus or minus 0.25 inches)
f. Back Rise:	16.25		(plus or minus 0.25 inches)

Women's:	Regular Length:	Dress Size 12	
a. ½ Waist	15.25		(plus 0.25 inches)
b. Seat:	22.5		(plus or minus 0.25 inches)
c. Inseam:	8		(plus or minus 0.25 inches)
d. Out seam:	15.25		(plus or minus 0.25 inches)
e. Front Rise:	11.625		(plus or minus 0.25 inches)
f. Back Rise:	16		(plus or minus 0.25 inches)

**MOTORCYCLE UNIFORM BREECHES  
FECHHEIMER ITEM #34236**

**FABRIC:**

RaeFord #13507-96

19½ - 20 oz.

100% Wool

**DESIGN:**

Breeches shall be manufactured from up-to-date patterns and shall be designed so that there will be a slight "peg" at the hip and no baggy seat. The front shall be plain (no pleats) with two (2) top pockets, two (2) hip pockets with flaps to button, one (1) club pocket below right hip pocket and two (2) watch pockets. All pockets shall be bartacked with diamond bartacks except for the watch pocket which is to have straight bartacks. Hip pockets will be of the double welt method, manufactured on REECE PW Machine, and shall be finished in such a manner that there is no topstitching. The welts shall be interlined with Pellon.

**POCKETING:**

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

**WAISTBAND:**

Waistband curtain to be of the same fabric as the pocketing and shall close with a hook and eye. The waistband curtain must be attached to the trouser with a zigzag stitch. There must also be a Snugtex waistband.

**FLY LINING:**

The right fly shall be the same fabric and color as the waistband and pocketing. The right fly lining must be sewn to the left fly below the zipper with strong closure and smart appearance. There shall be a French Fly closure on the inside of the right fly, and the fabric for the French Fly must be the same as the outer material of the trousers.

**BELT LOOPS:**

There shall be six (6) belt loops, ¾" wide, of double thickness, and each loop must be interlined with a non-woven fabric. All loops (except for the back center loop) must be sewn into the bottom of the waistband, and the top of all loops shall be caught into the waistband curtain seam. The waistband shall measure approximately 2" wide when finished, wide enough to comfortably accommodate a belt 1 5/8" wide. The back center loop shall be 1" wide.

**MISCELLANEOUS:**

Breeches must have a Talon #42 Memory Lock zipper, the tape of which has permanent press finish, and there shall be a bartack at the bottom of the fly, going through the zipper tape. The breeches must be seamed with matching thread and the seat seam must be stitched with a Tandem needle machine (2 threads). All exposed inside edges must be serged. Breeches to have a full cavalry reinforcement cut square at the top and not to be more than 3/8" from the hip pocket. Bottoms of breeches shall have zipper closures.

**FECHHEIMER ITEM #34236 continued**

**STRIPE:**

½" Royal Blue cloth stripe sewn from bottom of the waistband to the bottom of breeches leg. (F1873-A)

**LABELS:**

Breeches 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.

**UNIFORM POLO SHIRT (Bicycle)**  
**BLAUER ITEM #8130**  
**COLOR: NAVY BLUE**

**MATERIAL SPECIFICATIONS:**

**SHELL FABRIC:**

Cloth Type: 9-9.5 oz. per linear yard, 35% Polyester/65% Cotton double pique knit with 70 denier textured polyester face and 30/1 cotton back.

Color: See specified garment color.

**INTERLINING:**

Cloth Type: 100% polyester weft fusible

**BUTTONS:**

Buttons shall be 20 ligne 4 hole pure melamine plastic conforming to Type II, class D, style 20 and 21, of US Military Specification #V-B-871D.

Color: Shall match specified shell fabric.

**HOOK & LOOP:**

The hook and loop tape shall meet specification MIL-F-21840 and shall measure 0.625" wide.

Color: Shall match specified fabric.

**THREAD:**

Thread for safety stitch seams shall be polyester wrapped polyester core, vat dyed size #50 in the needles and size #70 in the loopers. Thread for all other seams shall be size #50 polyester wrapped polyester core, vat dyed.

Color: Shall match specified fabric.

**DESIGN AND CONSTRUCTION SPECIFICATIONS:**

**GENERAL DESIGN:**

The short sleeve uniform shirt shall be five (5) crease military style with two (2) button placket, sport collar, pleated patch pockets, badge eyelets with internal support strap, and extra long shirt tails.

**SLEEVES:**

Short sleeves shall finish with a 1" hem constructed after sleeve closing seam. Sleeve setting and closing seams shall be sewn with an over-edge safety stitch.

**COLLAR:**

The collar shall be a sport collar style. The collar shall measure 3.375" high in back when opened flat and shall be made of two (2) plies of shell fabric plus one ply of the specified interlining. There shall be permanent collar stays sewn in by being caught in the topstitching of the front collar edge to keep the collar points from curling up. The collar shall be topstitched around the edges and collar points shall be 2.875" long. The collar shall close with one button set to the top of the placket.

## **BLAUER ITEM #8130 continued**

### **EPAULETS:**

Epaulets shall be cut from shell fabric, interlined with the specified interlining, and then stitched, turned and topstitched. Epaulets shall be sewn into the sleeve head seam and shall measure 2" wide at the sleeve head and taper to 1½" wide with the end finishing in a point. Epaulets shall be set with the point approximately 1" from the collar seam. The epaulets shall be stitched to the shoulders with a row of stitching 2½" from the sleeve head and sewn diagonally from each end of the seam to the sleeve. There shall be a button sewn on top at the pointed end of the epaulet. The epaulets shall then be topstitched along both edges of the point of the epaulet to the shoulder of the shirt. There shall be an unslit buttonhole at the pointed end of the epaulet with the specified button sewn on top.

### **POCKETS:**

There shall be two (2) pleated pockets with center-pointed faux pocket flaps topstitched to the top of the pockets. The patch pocket shall measure 5½" wide and 6.875" long with mitered corners and a 1½" box pleat stitched closed. The pockets shall be open at the top with a piece of loop tape 2" wide by 0.625" high sewn to the center of the pocket at the top which shall mate with a piece of hook tape sewn to the body of the shirt. The pocket shall be interline with the specified interlining. The top of pockets shall be set to line up with the bottom of the shirt placket. The faux flap shall measure 3.125" high to the center point and 2¼" high along the sides. There shall be an unslit buttonhole at the center point of the pocket flap with the specified button sewn on top.

### **YOKE:**

There shall be a two-ply back yoke lined on the inside with shell fabric. The yoke shall measure approximately 3¾" at the center and 3¼" at the sleeve head.

### **PLACKET:**

There shall be a two (2) button placket measuring 1.375" wide and 6¼" long with the specified interlining.

### **CREASES:**

The two (2) military creases in the fronts and three (3) in the back shall be stitched for permanent crease retention.

### **STITCHING:**

Sleeve setting, sleeve and body closing, and collar which shall be safety stitched and topstitched. Collar and sleeve setting seams shall be safety stitched and topstitched. Hems at cuff and body shall be overlocked and topstitched. All other stitching shall be single needle at 10 – 12 stitches per inch.

### **BUTTONHOLES:**

Buttonholes shall be straight, cut-after type.



**BLAUER ITEM #8130 continued**

**BADGE ATTACHMENT:**

There shall be an inside sling constructed from shell fabric 1" wide extending from the shoulder seam to the pocket on the left front. There shall be two (2) unslit horizontal 1/2" buttonholes set vertically to the left front 1.375" center to center and with the bottom buttonhole set 1 1/4" above the top of the pocket flap.

**LABELING:**

The garment shall be permanently labeled with the manufacturer, country of origin, size, fiber content, and care instructions.

**PACKAGING:**

Shirts shall be folded and individually polybagged. Shirts shall be packed five (5) to a box which shall be clearly labeled on one end with style number, quantity, color, and size.

**SIZES AND MEASUREMENTS:**

**SIZE RANGE:** Sizes shall be unisex XS – 3XL.

**MEASUREMENTS:**

Sizes:	XS	S	M	L	XL	2XL	3XL		
Neck (1)		16	17	18	19	20	21	22	
1/2 Chest (2)		18.5	20.5	22.5	24.5	26.5	28.5	30.5	
Back Length (3)			34.5	34.5	34.5	34.5	34.5	34.5	34.5
Inseam		7	7	7	7	7	7	7	

Neck measurement taken from center of collar button to front cut end buttonhole with collar laid flat.  
Chest measurement taken from folded edge to folded edge at base of armhole with shirt buttoned and laid flat.  
Back length taken at center back from collar setting seam to bottom edge of shirt for all sizes.

**WARRANT:**

*Warranty Coverage:* Manufacturer agrees to warrant to the original purchaser that the product will be free from defects in materials and workmanship for a period of one (1) year from date of purchases.

*Warranty Services:* Should be covered product become defective during the warranty period, simply return it to the manufacturer with dated proof of purchase. The manufacturer agrees to repair or replace at its option any item determined to be defective and will return to purchaser at no charge.

*Limitations:* This warranty does not cover normal wear and tear, improper cleaning, damage from chemicals, fire, misuse, accident or negligence. This warrant only applies to the original purchaser of the covered product and is not transferable.

For a complete copy of the Limited Warranty, please contact the manufacturer.

**BARRIER BICYCLE JACKET**  
**MOCEAN (water resistant) - #6023S/SC**

**COMPONENTS:**

The Barrier Jacket shell consists of nylon Supplex® nylon and is fully lined. It is designed to be compatible with various zip-in thermal liners and shirts. The thermal liners and shirts are available as separate items. The design may be modified by: adding reflective tape, departmental identification or sewing-on a shield keeper. The modifications are available options. The jacket is available in solid and colored blockers versions.

**FABRICS:**

**Jacket Shell:**

Fabric: 100% Supplex® Nylon  
Warp: 70 denier textured 34-filament nylon  
Fill: 2-ply 70 denier 34-filament nylon  
Construction: 160 x 72 / Plain Weave  
Finish: Piece Dyed / Teflon® durable water-resistant (DWR) treatment

**Jacket Liner Fabric:**

Fabric: 100% Nylon Taffeta  
Warp: 70 denier 34-filament nylon  
Fill: 70 denier 34-filament nylon  
Construction: 96 x 86 / Plain Weave  
Finish: Piece Dyed

**Jacket Mesh Fabric:**

Fabric: 100% Coolmax® Polyester Mesh  
Construction: Warp Knit Tricot Mesh  
Yarns: 50/24 denier Collmax®  
Width: 61/62 inch  
Weight: 1.9 oz / yard<sup>2</sup>  
Finish: Piece Dyed

**Pocketing Fabric:**

Fabric: 50% Polyester / 50% Cotton  
Warp: 35 x 35 yarn size / 78 Cotton  
Fill: 70 denier 34-filament polyester  
Construction: Plain Weave  
Finish: Piece Dyed / Starch

**JACKET SHELL**

**COLOR:**

The shell fabric shall be available in a solid color or in a color-blocked combination of the following colors: "ROYAL / POLICE NAVY"

The color may also be available in other established shades as set forth and agreed upon in approved specifications.

The color blocking (if chosen) shall occur between the upper top and lower bottom of both the body and the sleeves.

## **BARRIER BICYCLE JACKET MOCEAN - #6023S/SC continued**

The top stitch thread shall match the color of the shell fabric and the lining thread shall match the color of the lining.

The lining fabric, pocketing fabric, zippers and hook & loop shall be black.

### **REFERENCE:**

All dimensions are based on size large (L).

### **MEASUREMENTS:**

All measurements are from a relaxed state, not stretched.

### **STYLE:**

MOCEAN Style #6023S/SC "The Barrier Jacket" (water repellant)

The over shell features a center front zipper with dual rain gutter flaps and raglan shoulders. It has 2 outside hand pockets, 2 inside pockets, 2 inside pen pockets and a shirred waistband. It is fully lined and uninsulated. It has ventilating zippers located under the arms. It has an inside zipper to accommodate a zip-in liner.

### **FRONT:**

The front shall consist of a left side and right side and shall be fully lined. Each side shall be a two-piece construction. The top third of the front panels shall be one piece and the bottom two-thirds of the front panels shall be one piece. The two pieces shall be surged and sewn 5-thread over lock and topstitched ¼ inch gauge. The front shall have a separating zipper closure. The zipper shall run from the top of the collar to the bottom of the waistband. The zipper shall be concealed behind left and right flaps that meet over the center of the zipper and are approximately 3/8 inch wide and are top stitched 3/8 in gauge to the zipper tape. The front length shall be a minimum of 24 inches long and then half chest shall measure 26 inches wide.

### **INNER ZIPPER TRACK:**

Each front side shall have an inside zipper track to accommodate a zip-in liner. The edge of the zipper tape shall be edge stitched 1/16 inch gauge to the outside zipper. The zipper teeth shall face toward the lining. The inner zipper shall not rise above the collar and body seam. The slider shall be on the right front with the pull facing inward. The bottom and top ends of the zipper shall be backstitched. There shall be a left and right zipper facing made of lower front shell fabric. The zipper facing shall begin at the collar & body seam and end at the body & waistband seam and measure 1½ inch wide and 20 inches long. The zipper facings shall be surged and sewn with 5-thread over lock to the left and right front linings and topstitched ¼ inch gauge.

### **COLLAR:**

The collar shall be a 2-piece construction and interlined with a non-woven pella. There shall be an inner collar piece and an outer collar piece. The inner collar piece shall be made of the lower front shell fabric and the outer piece shall be made of the upper front shell fabric. The front edge of the collar shall finish over the front zipper in the same fashion as the front of the jacket finishes over the front zipper. The collar edges shall measure 3 inches wide at the center front and 2½ inches wide at the center back. The collar top shall be edge stitched ¼ inch gauge and 20 inches across the top.

## **BARRIER BICYCLE JACKET MOCEAN - #6023S/SC continued**

### **OUTER POCKETS:**

There shall be 2-slash pockets with openings that are covered with welt flaps. The bottom of the pocket openings shall be 6 inches above the bottom front waistband and 3 inches from the side seam. The top of the pocket openings shall be 11½ inches above the bottom front waistband and 6 inches from the side seam. The welt flaps shall be made of lower front shell fabric and interlined with a non-woven, non-fused pellon and measure 6½ inches long and 1 inch wide. The flap edges shall be topstitched 1/16 inch gauge. The pocket bags shall be constructed of pocketing fabric and measure 7½ inches deep at the center.

### **INNER POCKETS:**

There shall be 2 inner pockets with zipper openings made of lining fabric. The pocket openings shall measure 6½ inches above the bottom front waistband and 6 inches long. The lining fabric shall be top stitched 1/16 inch gauge around the zipper to the zipper tape. The pockets shall be 6½ inches deep at the center.

### **PEN POCKET:**

There shall be 2 pen pockets located on the left and right zipper facings. The pen pockets shall be made of lower front shell fabric. The pocket openings shall measure ¼ inch and began at no more than 6 inches down from the collar and body seam. The pockets shall measure 1 inch wide and 5 inches long. The pocket opening shall be exposed on the inside of the jacket liner and be top stitched ¼ inch gauge. The pocket shall be formed between the shell zipper and the zipper facing and mesh liner seam.

### **BACK:**

The back shall consist of an upper back cape and a lower back and shall be fully lined with mesh. The upper back cape shall be made of the same fabric as the upper front panels and the lower back shall be made of the same fabric as the lower front panels. It shall measure a minimum of 31 inches long from the center collar seam to the bottom of the waistband. The upper back cape shall extend from the center collar seam down 14½ inches to overlap the lower back piece by 2 1/3 inches. The lower back piece shall extend up from the waistband seam 13½ inches and shall be sewn and top stitched 1/16 inches gauge the upper mesh lining 13 inches down from the center collar seam.

### **SLEEVES:**

The sleeves shall be raglan, two piece construction. The top two thirds of the sleeve shall be one piece and made of the same fabric as the upper front panels. The bottom third of the sleeve shall be one piece and made of the same fabric as the lower front panels. The two pieces shall be surged and sewn 4-thread over lock and topstitched ¼ inch gauge. The sleeve shall measure 2½ inches wide at the collar seam and measure 37 inches long from the center back collar to the end of the cuff opening. The upper sleeve shall be fully lined with mesh starting 4½ inches from the cuff opening to the center back collar and is joined to the back lining. The cuff shall be lined with liner fabric and is sewn and topstitched 1/16 inch gauge to the mesh sleeve lining. The bottom edge of the lining fabric shall meet at the bottom edge of the shell fabric with the end of the cuff opening topstitched 1/16 inch gauge. A 4½ by 1½ inch piece of loop tape shall be sewn to the outside of the sleeve near the hem ½ inch from the cuff hem and 3 inches from the closing seam. A 4 inch tab shall be sewn into the closing seam at the bottom of the sleeve. The width of the tab shall be tapered from 2½ inches at the closing

## **BARRIER BICYCLE JACKET MOCEAN - #6023S/SC continued**

seam to 2 inches to the finished edge. A 3 by 1½ inch piece of hook tape shall be sewn to the inside of the tab. The tab shall be made from shell fabric and shall be stitched turned and topstitched ¼ inch gauge.

### **EPAULETS:**

There shall be an epaulet on each shoulder. The epaulet shall measure 7/8 inch wide and shall be made of the same fabric as the upper front panels. The epaulet shall be folded with 4 top stitches that are sewn equidistant from edge to edge. The ends of each epaulet shall be caught in the raglan shoulder seam between the front and upper back cape seams and no more than 2 ½ inches (o/c) down from the collar seam. The epaulets shall sit across the shoulder, front to back and be bar tacked (o/c) to the center of the raglan shoulder.

### **UNDER ARM VENT:**

Under each arm pit there shall be a vent. The vent shall be opened by a zipper that shall be sewn into the sleeve seam and continue down into the body side seam. The shell fabric shall be topstitched 1/16 inch gauge around the zipper to the zipper tape.

### **LINING:**

The jacket shall be fully lined. The lining shall consist of both mesh and lining fabric with mesh fabric in the upper fronts, upper sleeves and the entire back and lining fabric in the lower fronts and lower sleeves. The upper front mesh shall begin 7 inches above the waistband seam and extend up to the collar and body seam. The lower front lining shall begin at the waistband seam and extend up 7 inches to the bottom of the mesh lining. The upper front mesh and the lower front lining shall be surged and sewn together with 5-thread over lock and topstitched ¼ inch gauge.

### **WAISTBAND:**

The waistband shall be a separate piece and made of the same fabric as the lower front panels. The waistband assembly shall consist of two front tabs, 3 inches long and a continuous shirred band. The waistband shall finish 1¾ inches wide and feature elastic that is enclosed in the waistband and shirred in a three stitch, multi-needle chain stitch operation. The shirred gathers shall appear in a uniform and equidistant fashion. The waistband shall be sewn and surged around the jacket bottom to the jacket body with 5-thread over lock.

### **ZIPPERS:**

The front zipper shall be a separating, YKK Vision plastic tooth type, size 5 or equivalent. The zipper shall have a single slider and locking pull. The tape shall measure 5/8 inch wide. The zipper shall be 24 inches long.

The inner "zip-in" zipper shall be a separating YKK Vision plastic tooth type, size 5 or equivalent. The zipper shall have a single, reversible slider and locking pull. The slider shall be placed on the right side. The tape shall measure 5/8 inches wide. The zipper shall be 20 inches long.

Inner pocket zippers shall be YKK coil plastic tooth type size 2.5 or equivalent. The zipper shall have a single slider and 'tear drop', non-locking pull. The tape shall measure 5/8 inch wide. The zipper shall be 6 inches long and closed at both ends.

## **BARRIER BICYCLE JACKET MOCEAN - #6023S/SC continued**

The under arm vent zippers shall be YKK coil plastic tooth type size 4.5 or equivalent. The zipper shall have a single slider and pull. The tape shall measure 5/8 inch wide. The zipper shall open from the sleeve toward the body. The zipper shall measure 15 inches long with 10 inches sewn into the sleeve seam and 5 inches sewn into the body side seam. It shall be closed at both ends.

### **SEAMS AND STITCHING:**

All stitching shall be lock stitch type 301. All exposed exterior seams, excluding under sleeves / side seams and waistband to body seam shall be single needle topstitched ¼ inch gauge. All stress points shall be bar tacked.

### **THREAD:**

All construction thread shall be minimum size Tex 30 or 50/2. All top stitch thread shall be minimum size Tex 40 or 30/2.

### **SIZES:**

The jacket shall be available in the following sizes: XS – 5X

### **LABELS:**

Manufacturer's label shall be sewn on the exterior of the left waistband tab. Manufacturer's label and size label shall be sewn into the center of the inner collar. Care instructions, manufacturer's identification and R/N # shall be sewn into the side seam of the lower body.

**ZIP-IN FLEECE JACKET  
MOCEAN - #6551**

**COMPONENTS:**

The Zip-In Jacket consists of polyester fleece and is unlined. It is designed to be zipped in and out of various jacket shells or worn alone as thermal outerwear. It is available in 100 weight Micro Fleece.

**FABRICS**

**Micro Fleece Shell Fabric:**

Fabric: 100% Spun Polyester Fleece  
Construction: Knit  
Yarns: Face: Spun Yarn 300 singles  
Stitch: 120 denier 34 filament polyester  
Width: 61/62 inch  
Weight: 9.5 oz / linear yard  
Finish: Brushed and sheared face, brushed and sheared back / DWR

**Polar Fleece Shell Fabric:**

Fabric: 100% Spun Polyester Fleece  
Construction: Knit  
Yarns: Face: Spun Yarn 34 singles  
Stitch: 150 denier 48 filament polyester  
Width: 61/62 inch  
Weight: 14 oz / linear yard  
Finish: Brushed and sheared face, brushed and sheared back / DWR

**Pocketing Fabric:**

Fabric: 100% Polyester  
Construction: Warp Knit Tricot  
Yarns: 50/24 denier polyester  
Width: 46 inch  
Weight: 1.9 oz / yard<sup>2</sup>  
Finish: Piece Dyed

**COLOR:**

The shell fabric shall be available in the following colors: Black

The construction threads and topstitching threads shall match the color of the shell fabric as closely as possible.

The pocketing fabric and zippers shall be black.

**REFERENCE SIZE:**

All dimensions are based on size large (L).

**MEASUREMENTS:**

All measurements are from a relaxed state, not stretched.

## **ZIP-IN FLEECE JACKET MOCEAN - #6551 continued**

### **STYLE:**

MOCEAN Style #6551M

“Micro-Fleece Zip-In Jacket”

The waist length, zip-in jacket features a center front zipper and set-in sleeves. It has two outside hand pockets, two inside pockets, two inside pen pockets and a stretch hem bound in tricot and spandex. It has 2 ventilating zippers located under the arms. It is a design to be zipped-into and zipped-out of the following jackets:

### **ZIP-INTO JACKETS:**

MOCEAN Style #6023 / S-99

“The Barrier Jacket”

### **FRONT:**

The front shall consist of an upper front piece and a lower front piece. It shall be unlined. The upper front piece shall extend from the center collar and body seams down to meet the lower front piece. The lower front piece shall extend up from the hem no more than 10½ inches. The two pieces shall be surged and sewn 5-thread over lock and topstitched ¼ inch gauge to form a body and pocket seam. The front shall have a separating, reversible zipper closure. The zipper shall run from the top of the collar to the bottom of the jacket. The front length shall be a minimum of 24 inches long. The front zipper shall be exposed. There shall be left and right zipper facings. The zipper facings shall be made of shell fabric. The zipper facings shall measure no more than 2 inches wide and begin at the collar and body seams and end in the hem binding. The exposed zipper facings edges shall be edge stitched with 3 thread over lock. The half chest shall measure 25 inches wide.

### **COLLAR:**

The collar and the collar lining shall be made from shell fabric. The front of the collar shall meet at the collar and body seam. The collar edges shall measure 0 inch wide at the center front and 2¾ inch wide at the center back. The collar shall be surged and sewn to the jacket body with 3-thread over lock and the resulting seam covered with bias cut tricot / spandex binding tape. The collar shall be edge-stitched ¼ inch gauge and 22 inches across the top.

### **OUTER POCKETS:**

There shall be 2 slash pockets with zipper openings. The pocket shall be formed between the shell fabric and the bottom pocket. The fabric backside of the lower front shell piece shall form the top pocket. The bottom of the zipper openings shall be 2 inches above the bottom front hem and 2 inches from the side seam. The top of the zipper openings shall be 9 inches above the bottom front hem and 5 inches from the side seam. The pocket zippers shall be exposed. The shell fabric edges shall be edge stitched 1/16 inch gauge to the zipper tape. The edge stitching shall form 90° angles at the top and bottom of the pocket openings around the zipper. The inside edge of the bottom pocket shall be sewn into the center front zipper seam. The outside edge of the bottom pocket shall be sewn into the lower side seam. The lower edge of the bottom pocket shall be sewn into the lower front hem binding. The pockets shall measure 10 inches deep.

### **INNER POCKETS:**

The inner pockets shall be made of pocketing fabric and consist of two pieces to form the outer pocket bottom pocket. Inside access to the outer pocket shall be available through a vertical access zipper that is sewn into the bottom pocket fabric. The access zipper shall be sewn



## **ZIP-IN FLEECE JACKET MOCEAN - #6551 continued**

vertically between the upper front piece and the lower front piece seam and the hem. The access zipper shall open from the body and pocket seam down to the hem binding. The bottom pocketing fabric edges shall be edge stitched 1/16 inch gauge to the vertical zipper tape.

### **PEN POCKET:**

There shall be 2 pen pockets located on the left and right zipper facings. The pen pockets shall be made of pocketing fabric. The pocket openings shall measure ¼ inch and begin at no more than 4 inches down from the collar and body seam. The pockets shall measure 2 inches wide and 5 inches long. The pocket opening shall be exposed on the inside of the zipper facing and be topstitched ¼ inch gauge. There shall be a single needle topstitch running the center length of each pen pocket equally dividing it. The pockets shall be formed between the center front zipper and the finished edge of the zipper facing.

### **BACK:**

The back shall be one piece construction and 25 inches long from the center collar seam to the edge of the hem.

### **SLEEVES:**

The sleeves shall be set-in one piece construction. The sleeve shall measure 11½ inches wide at the body and sleeve seam and measure 36 inches long from the center back collar to the end of the cuff opening. The sleeves shall be unlined and the cuffs shall be formed and finished with bias cut tricot / spandex binding tape. The bindings tape shall be set via a mechanical folder and topstitched 1/16 inch.

### **UNDER ARM VENT:**

Under each arm pit there shall be a vent. The vent shall be opened by a zipper that shall be sewn into the sleeve seam and continue down into the body side seam. The zip-in liner fabric shall be topstitched 1/16 inch gauge around the zipper to the zipper tape.

### **HEM:**

The hem shall be formed and finished with bias cut tricot / spandex binding tape. The binding tape shall be set via a mechanical folder and single needle topstitched 1/16 inch gauge.

### **ZIPPERS:**

The front shall be separating, YKK Vision plastic tooth type, size 5 or equivalent. The zipper shall have a single reversible slider and locking pull. The slider shall be placed on the right side. The tape shall measure 5/8 inch wide. The zipper shall be 20 inches long.

Outer pocket zippers shall be YKK coil plastic tooth type size 4.5 or equivalent. The zipper shall have a single slider and locking pull. The tape shall measure 5/8 inch wide. The zippers shall be 7 inches long and closed at both ends.

Inner pocket zippers shall be YKK coil plastic tooth type size 4.5 or equivalent. The zipper shall have a single slider and 'tear drop' non-locking pull. The tape shall measure 5/8 inch wide. The zipper shall be 10 inches long and closed at both ends.

## **ZIP-IN FLEECE JACKET MOCEAN - #6551 continued**

The under arm vent zippers shall be YKK coil plastic tooth type size 4.5 or equivalent. The zipper shall have a single slider and pull. The tape shall measure 5/8 inch wide. The zipper shall open from the sleeve toward the body. The zipper shall measure 10 inches long with 5 inches sewn into the sleeve seam and 5 inches sewn into the body side seam. It shall be closed at both ends.

### **SEAMS AND STITCHING:**

All stitching shall be lock stitch type 301. The exterior shoulder and front body pocket seam shall be topstitched ¼ inch gauge.

### **THREAD:**

All construction thread shall be minimum size Tex 30 or 50/2. All top stitch thread shall be minimum size Tex 40 or 30/2.

### **SIZES:**

The Fleece Zip-In Jacket shall be available in the following sizes: XS – 5X.

### **LABELS:**

Manufacturer's label and size label shall be sewn into the center of the inner collar. Care instructions, manufacturer's identification and R/N # shall be sewn into the side seam of the lower body.

**ZIP-OFF PANT WITH ZIP CUFFS**  
**MOCEAN (water resistant) - #2058Z**

**COMPONENTS:**

The Zip-Off Pant with Zip Cuffs shall consist of Supplex® nylon that is coated with Teflon HT® durable water-repellant barrier and fabric protector. The 2058 shell is unlined and uninsulated. The outer shell features a zipper fly, a fixed waistband across the front, a shirred waistband across the back, 5 belt loops, 2 side seam pockets, 2 gusseted cargo pockets with flap closure, a pen pocket, 2 zippered back pockets with welt flaps, a gusseted crotch, vented knees, zip-off legs and zipper cuff openings. The Zip-Off Pant with Zip Cuffs may be modified by adding: belt keepers to the waistband; and / or by adding reflective piping down the side seam of each leg; and / or by adding reflective embellishments to the cuff areas; and / or by adding stirrups to the cuffs. The modifications are available options from MOCEAN. The Zip-Off Pant with Zip Cuffs shall be available in regular and long lengths and is designed to be worn over a padded liner or various thermal liners. The thermal liners and padded liner are available as separate items from MOCEAN.

**FABRICS:**

**Shell Fabric:**

Fabric: 100% Supplex® Nylon  
Warp: 70 denier textured 34 filament nylon  
Fill: 2-ply 70 denier 34 filament nylon  
Construction: 160 x 72 Plain Weave  
Finish: Piece Dyed with Teflon HT® durable water-repellant (DWR) treatment

**Pocketing Fabric:**

Fabric: 50% Polyester / 50% Cotton  
Warp: 35 x 35 yarn size / 78 Cotton  
Fill: 70 denier 34 filament polyester  
Construction: Plain Weave  
Finish: Piece Dyed / Starch

**Mesh Vent Fabric:**

Fabric: 90% Polyester / 10% Spandex Flex-a-Vent III®  
Construction: Warp Knit Tricot Mesh  
Yarns: 70 denier nylon / 140 denier Spandex  
Width: 48 / 50 inch  
Weight: 4.9 oz / yard<sup>2</sup>  
Finish: Shrinkage Control

**COLOR:**

The shell fabric shall be available in the following color:

"POLICE NAVY"

The color may also be available in other established shades as set forth and agreed upon in approved specifications.

The topstitching thread shall match the color of the shell fabric.

The pocketing fabric, zippers, cuff snaps and hook and loop shall be black.

## **ZIP-OFF PANT WITH ZIP CUFFS MOCEAN - #2058Z continued**

### **REFERENCE SIZE:**

All dimensions are based on size large (L), regular length.

### **MEASUREMENTS:**

All measurements are from a relaxed state, no stretched.

### **SEWING:**

All sewing shall be in a neat and durable fashion

### **STYLE:**

MOCEAN Style #2058Z "Zip-Off Pant with Zip Cuffs" (regular and long lengths).

The Zip-Off Pant with Zip Cuffs shall feature a zipper fly, a fixed waistband across the front, a Shirred waistband across the back, 5 belt loops, 2 side seam pockets, 2 gusseted cargo pockets with flap closures, a pen pocket, 2 zippered back pockets with welt flaps, a gusseted crotch, vented knees, zip-off legs and zipper cuff openings. The Zip-Off Pant with Zip Cuffs shall be available in regular and long lengths.

### **FRONT:**

There shall be a left side front panel and a right side panel front made from shell fabric. Each panel shall have an upper front and a lower front leg assembly. The upper front shall have hand pockets, cargo pockets, a zipper fly and a fixed waistband that shall open from the top of the zipper fly. The upper front pieces shall be sewn together to form the upper front assembly. The upper front assembly shall extend down the right and left side of the pant legs into the upper leg zipper system. The waistband shall be secured with a metal snap closure. The snap closure shall be attached to the waistband (o/c) at the top of the front rise in a neat and durable fashion. The crotch area of each front side panel shall be surged and sewn with 5 thread over lock and double needle topstitched ¼ inch gauge to the front edge of the crotch gusset piece.

### **CROTCH GUSSET:**

There shall be a crotch gusset made from shell fabric. The crotch gusset shall act to permit full extension of the legs without encountering binding. The gusset shall traverse between the inseams of the front and back panel assemblies and at the leg zipper assembly. The gusset shall measure no less than 3¼ inches wide at the center of the crotch and 2 inches at the leg zipper assembly. The entire crotch gusset assembly shall be surged and sewn with 5 thread over lock and double needle topstitched ¼ inch gauge to the front and back panels. The gusset piece shall extend down into the upper leg zipper system.

### **FLY:**

The zipper fly shall be a French Fly design made from shell fabric. The fly assembly shall consist of a left fly facing and a right fly extension. The left fly facing shall be double needle topstitched ¼ inch gauge to the front shell and the topstitch shall form a 90° curve toward the center front rise to 1 inch below the end of the fly zipper. The finished edge of the left fly facing shall be single needle edge stitched 1/16 inch gauge and remain open to allow access to the zipper opening. The right fly extension shall be sewn to the right fly zipper and the fly area of the right side panel. The edge of the right front panel shall be turned and single needle edge stitched 1/16 inch gauge to the zipper tape down to the center front rise. The fly zipper shall

## **ZIP-OFF PANT WITH ZIP CUFFS MOCEAN - #2058Z continued**

be caught in the waistband and body seams along with the left fly facing and right fly extension. There shall be a bat tack sewn across the topstitching at the bottom of the left fly assembly at the edge of the front rise. There shall be a second bar tack sewn across the topstitching at the point of termination of the 90° curve. Both bar tacks shall be sewn through the right fly extension.

### **WAISTBAND:**

The waistband shall be of three piece construction and made from shell fabric. There shall be a left front, a right front and a back piece. The back portion of the waistband shall be made from the turn back of the back shell pieces. The back waistband piece shall feature elastic that is enclosed and shirred in a three stitch, multi-needle chain stitch operation. The shirred gathers shall appear in a uniform and equidistant fashion. The back of the waistband shall finish 1 n/24 inches wide. The left and right front pieces shall be separate pieces and made of shell fabric. The front portions of the waistband shall be lined with a non-woven interlining that an enclosed and double needle topstitched ¼ inch to the front shell in a neat and durable fashion. The front waistband shall appear to be fitted. The front portion of the waistband shall finish 2 inches wide. The entire waistband assembly shall finish clean on the inside.

### **BELT LOOPS:**

There shall be five, 7/8 inch wide belt loops made from shell fabric. The belt loops shall be folded and sewn with 4 topstitches that are set equidistant from edge to edge. The belt loops shall be sewn and set equidistant from one another to the waistband with the center back rise being the point of origin. The bottom of the belt loops shall be bar tacked in the bottom of the waistband and the top of the belt loops shall be turned back and bar tacked to the top of the waistband in order to 'float' as the end user sits. The belt loops shall be no less than 2½ inches in diameter and are designed to accept an inner belt to support a nylon Sam Brown belt or other duty belts. The 2058Z also comes with optional Velcro Belt Keepers.

### **HAND POCKETS:**

There shall be 2 side seam hand pockets. The pocket openings shall begin 1 ½ inches under the waistband and terminate no less than 6 ½ inches down the side seam. The pocket opening shall be sewn, turned and folded to finished clean and double needle edge stitched ¼ inch gauge. There shall be a bottom pocket and top pocket. The bottom pocket and the top pocket shall be made from pocketing fabric. Sewing the top pocket to the bottom pocket shall form the pocket bag. The pocket bag may be closed and edge stitched ¼ inch gauge or may be surged closed with 5 thread over lock. The bottom of the hand pocket shall be faced with shell fabric. The bottom pocket facing shall finish no less than 3 inches wide and shall run the length of the pocket bag. The bottom pocket facing shall be sewn to the bottom pocket bag with surged, 5 thread over lock and topstitched ¼ inch gauge. The pocket bag shall measure no more than 15 inches deep from the top of the pocket opening.

### **CARGO POCKETS:**

There shall be a gusseted cargo pocket on each side of the upper front assembly made from shell fabric. The cargo pocket shall consist of 3 pieces: a pocket flap, a pocket face and a pocket gusset. The cargo pocket assembly shall begin no more than 10½ inches down the side seam of each pant leg and terminate in the upper leg zipper system assembly. The cargo pocket shall finish no more than 7½ inches wide, 7 inches deep and asymmetrically expand 2 inches at the back edge of the pocket. The cargo pocket opening shall be covered with a flap

## **ZIP-OFF PANT WITH ZIP CUFFS MOCEAN - #2058Z continued**

that is secured with Velcro® closures. The flap shall be sewn and double needle edge stitched  $\frac{1}{4}$  inch gauge to the shell fabric no less than  $\frac{1}{2}$  inch above the cargo pocket opening. The finished edge of the pocket flap assembly shall be double needle edge stitched  $\frac{1}{4}$  inch gauge. The cargo pocket face shall be sewn and double needle topstitched  $\frac{1}{4}$  inch gauge to the cargo pocket gusset. The cargo pocket gusset shall be sewn and topstitched  $\frac{1}{16}$  inch to the back panel. The front side edges of the cargo pocket assembly shall be sewn and double needle topstitched  $\frac{1}{4}$  inch gauge to the shell fabric. The cargo pocket shall be set no more than 1 inch below the bottom of the hand pocket opening. The right cargo pocket shall have a pen pocket sewn to it.

### **PEN POCKET:**

There shall be a pen pocket made from shell fabric on the right cargo pocket face piece and sewn to the front edge seam. The pen pocket shall be made of shell fabric. The pen pocket opening shall measure 2 inches and begin at no less than 2 inches down from the cargo pocket opening. The pocket shall finish 2 inches wide and  $5\frac{1}{2}$  inches long. The pen pocket opening shall be edge stitched  $\frac{1}{4}$  inch gauge. There shall be a single needle topstitch running the center length of the pen pocket, equally dividing it; thus, there shall be 2 pockets formed between the front edge seam and the finished edge of the pen pocket. The pen pocket shall terminate in the upper leg zipper system assembly.

### **BACK:**

There shall be a left side back panel and a right side back panel made from shell fabric. Each panel shall have an upper back and a lower back leg assembly. Each side of the upper back assembly shall have a pocket. The top edge of the back panels are to be turned, folded and finished clean to enclose the back portion of the waistband elastic. The upper back pieces shall be surged and sewn with 5 thread over lock and double needle  $\frac{1}{4}$  inch gauge together to from the upper back assembly. The upper back assembly shall extend down the right and left side of the pant legs into the upper leg zipper system. The crotch area of each backside panel shall be surged and sewn with 5 thread over lock and double needle topstitched  $\frac{1}{4}$  inch gauge to the back edge of the crotch gusset piece.

### **BACK POCKETS:**

There shall be 2 back pockets with zipper openings that are covered with welt flaps. The back pocket openings shall be made with a zipper and begin  $3\frac{1}{2}$  inches below the finished edge of the waistband and 2 inches from the side seam. The zipper shall be concealed under welt flaps. The welt flaps shall be made of shell fabric and shall be lined with a non-woven interlining during the sub-assembly. The finished welt flaps shall measure no less than  $6\frac{1}{2}$  inches long and 1 inch wide. The flap edges shall be edge stitched  $\frac{1}{16}$  inch gauge. The pocket bags shall be made of pocketing fabric and measure 6 inches deep and 7 inches wide. The pocket bags may be closed and edge stitched  $\frac{1}{4}$  inch gauge or may be closed and surges with 5 thread over lock.

### **UPPER LEG ZIP SYSTEM:**

There shall be an upper leg zipper system on each leg of the upper front leg assembly. Each upper leg zipper system shall be of 3 piece construction. There shall be a zipper flap piece, a zipper facing and a zipper. The zipper flap piece and zipper facing shall be made from shell fabric. The hem of each upper front assembly piece shall form the zipper facing piece. The hem shall be turned, folded and single needle edge stitched  $\frac{3}{4}$  inch gauge to finish clean on

## **ZIP-OFF PANT WITH ZIP CUFFS MOCEAN - #2058Z continued**

the inside of each leg eye of the upper front assembly. The zipper flap piece shall be folded and the raw edge shall be surged and sewn with 3 thread over lock. The zipper piece shall be set, turned and single needle edge stitched 1/16 inch gauge to the surged edge of the zipper flap piece. The zipper flap piece shall then be turned, folded and double needle edge stitched ¼ inch gauge to each leg eye of the upper front assembly and finished clean on the inside. The finished edges of the zipper flap piece and the zipper facing shall overlap the zipper teeth by no less than ½ inch to conceal and protect the leg zipper. The zipper pull shall be attached to the lower leg piece.

### **LEGS:**

The left and right leg pieces shall be of 5 piece construction and be attached to the upper pant assembly via the lower leg zipper. Each leg shall have an upper front leg piece, a lower leg piece a back left piece, a knee-lining piece and the lower leg zipper. The upper front leg piece, lower front left piece and back leg piece shall be made from shell fabric. The knee lining piece shall be made from mesh vent fabric. The knee lining piece shall be surged and sewn with 5 thread over lock and double needle topstitched ¼ inch gauge to the lower front leg piece. The lower edge of the upper front leg piece shall be surged and sewn with 3 thread over lock and turned and single needle edge stitched ¾ inch gauge to form the upper front leg hem. The upper front leg piece and the knee lining piece shall be sewn together across the top of each piece. The upper front leg piece shall extend down and the upper front leg hem shall overlap the lower leg piece no more than 2 inches to create a cent below the knee to from the lower front leg piece. The vent below the knee shall hang open. The back leg piece shall be surged and sewn with 5 thread over lock and double needle topstitched ¼ inch gauge to the lower front leg piece to create the lower leg sub-assembly. The top edge of the lower leg sub-assembly shall be surged and sewn with 3 thread over lock to form the surged edge of the lower leg sub-assembly. The surged edge of the lower leg sub-assembly shall be folded and single needle edge stitched to the lower leg. Each leg shall have an elastic zippered cuff assembly. The 2058Z also comes with a set of optional "elastic stirrups".

### **CUFFS:**

The cuffs shall be elasticized, Shirred and have zipper openings. The Shirred gathers shall appear in a uniform and equidistant fashion. The zipper shall open from the bottom of the cuff and 8 inches up the out seam from the finished edge of the cuff. The zipper shall be concealed behind a single flap that extends from the front edge of the zipper tape to the back edge of the side seam. The zipper flap is approximately 3/8 inch wide and topstitched 3/8 inch gauge to the zipper tape. The cuffs shall finish clean and neat on the inside and single needle topstitched 1 inch gauge to enclose the elastic.

## **ZIP-OFF PANT WITH ZIP CUFFS – OPTIONAL COMPONENTS**

### **REFLECTIVE MATERIAL (OPTIONAL):**

The optional reflective material shall consist of highly reflective transfer film that has a maximum R. (coefficient of retro reflection) of 500 candelas per lux per square meter ( $cd \cdot lx^{-1} \cdot m^{-2}$ ), measured by retro reflective intensity testing procedures ASTM E809 and E810. This represents the [high] industry standard of 3M™ Scotchlite™ Reflective Transfer Film 8710 [max. R @ 500  $cd \cdot lx^{-1} \cdot m^{-2}$ ]. The reflective material shall be silver and in the form of piping or applied to grosgrain tape. The grosgrain tape shall be black or navy. The reflective material and grosgrain tapes shall meet or exceed EN471

## **ZIP-OFF PANT WITH ZIP CUFFS MOCEAN - #2058Z continued**

laundry standards and be able to withstand rigorous home laundry washings and are professionally dry cleanable. To maintain the performance of the reflective material, the 3M corporation recommends the application of Scotchgard™ fabric protector to the reflective material.

### **BELT KEEPERS (OPTIONAL):**

There shall be five 'keepers' sewn and set equidistant from one another on the waistband with the center back waist being the point of origin. The keepers shall be made from black, 1 inch polypropylene webbing and 1 inch hook and loop (Velcro®) fasteners. The webbing shall be cut and fused with a hot knife. The bottom of the keepers shall be bar tacked to the bottom of the waistband and the top of the keepers shall be bar tacked to the top of the waistband. The keepers shall measure 6 inches in length and are designed to support a nylon, Sam Brown belt.

## **ZIP-OFF PANT WITH ZIP CUFFS CONSTRUCTION COMPONENTS**

### **ZIPPERS:**

The front fly zipper shall be YKK coil plastic tooth type size 4.5 or equivalent. The zipper shall have a single slider and locking pull. The zipper shall open from the top of the waistband down toward the gusset seam. The zipper shall measure 7 inches long and be closed at both ends.

The back pocket zippers shall be YKK coil plastic tooth type size 2.5 or equivalent. The zipper shall have a single slider and non-locking, tear drop pull. The tape shall measure 5/8 inch wide. The zipper shall be 6 inches long and open from the top.

The leg zippers shall be a separating YKK coil plastic tooth type size 3.5 or equivalent. The zipper shall have a single slider and locking pull. The slider shall be placed on the lower leg. The tape shall measure 5/8 inch wide. The zipper shall measure 25 inches.

The cuff opening zipper shall be YKK coil plastic tooth type size 4.5 or equivalent. The zipper shall have a single slider and locking pull. The tape shall measure 5/8 inch wide. The zipper shall measure 8 inches long and be closed at the top end.

### **SEAMS AND STICHING:**

All construction stitching shall be surged and sewn with 5 thread over lock.

All topstitching, except the back waistband stitching shall be lock stitch type 301.

The back waistband stitching shall be made with a three stitch, 6 thread, multi-needle chain stitch operation.

The welt pocket assembly, fly-zipper assembly, belt loops and pocket gusset assembly shall be single needle topstitched or single edge stitched 1/16 inch gauge.

The leg vent hem shall be single needle edge stitched 3/4 inch gauge.



## **ZIP-OFF PANT WITH ZIP CUFFS MOCEAN - #2058Z continued**

The cuff hem shall be single needle edge stitched 1 inch gauge.

The fly facing assembly, front pocket openings, front rise, back rise, inseam, out-seam, crotch seam and cargo pocket assembly shall be double needle topstitched ¼ gauge.

The upper leg hem shall be double needle edge stitched 1 inch gauge.

All stress points shall be bar tacked.

### **THREAD:**

All construction thread shall be minimum size Tex 27 or 50/2.

All topstitch thread shall be minimum size Tex 40 or 30/2.

### **SIZES:**

XS – 5X

### **LABELS:**

Manufacture label shall be sewn (o/c.) over the pocket flap of the left side cargo pocket. Size label, fabric content and care instructions, manufacturer's identification and R/N # shall be sewn into the center of the inner back waistband sizes.

**BICYCLE SHORTS (SUPER SHORTS)  
ALITTA® BY FECHHEIMER #A150BK**

**OUTERSHELL:**

DuPont's 3-ply finish Supplex® 100% Nylon air textured fabric.

Warp: 1/70/34 DuPont Nylon

Fill: 3/70/66 DuPont Nylon

Width: 62" – 63"

Picks: 61 – 65

Weight: 3.7-0.3 with stretch in the warp and fill of 0-4. The residual shrinkage at 120 for warp and fill is 4.0%.

Tear Test: Elemendorf test is warp 2500 grams and fill 1500 grams.

Tensile Strength: Warp 190 lbs. and fill 150 lbs.

Seam Shrinkage: Warp and fill is 2.0%. The fabric shall have a spray rating of 100 and be treated with Duropel® water and stain repellent. To ensure maximum comfort and performance only 3-ply Supplex will be acceptable.

**COLOR:** Black.

**INNER LINING:**

Warp-Knit Nylon/Lycra® 64 gauge 5 oz., material made of 85% DuPont® Antron® Nylon and 15% Lycra Spandex.

Stretch: 200% length by 55% width

**CROTCH LINER:**

Polypropylene foam covered with synthetic suede.

**BASIC STYLING:**

The Super Short™ shall be a slip-on style made from a short pattern consisting of 16 pattern pieces, which include two (2) front bellows pockets with pocket flaps, two (2) side pockets, a back patch pocket with pocket flap and an inset zipper front fly. The inner short shall consist of six (6) pattern pieces, constructed of Nylon/Lycra with a synthetic suede and polypropylene foam pad and 1" gripper elastic at the leg openings. The inner short shall feature double needle construction for strength. The inner short shall not protrude below the bottom of the actual short. The seat and crotch has a specially designed bicycle pad sewn to the inner short.

**SEWING SPECIFICATIONS:**

The 3-ply Supplex outer shell must be sewn with 12-18 stitches per inch. The Nylon/Lycra inner short must be sewn with fluff thread to match liner material. The stitches must be 16-20 stitches per inch. The inner short pad must be zigzag stitched to the Nylon/Lycra short. The inseam measurements for sizes S – XXL must be finished to a minimum and maximum length as follows:

Outer Short  
Min. 6½" Max. 8"

Inner Short  
Min. 5" Max.6"

## **FECHHEIMER #A110BK continued**

### **POCKETS:**

The two (2) front bellow pockets shall be 7½" wide by 6½" deep, with nylon Supplex flaps overlapping the pocket and two (2) Velcro tabs closures. The two (2) side pockets shall be a standard 6" deep using Supplex fabric. The back pocket shall be 7½" wide by 8½" with a 7½" long by 2¼" wide pocket flap, which shall have two (2) rows of single needle stitching, and the rest of the pocket shall be finished with a single row of single needle stitching. The inside edge of the pocket flap shall be over locked and stitched down.

### **WAISTBAND:**

The waistband shall be 2¼" wide elastic band with a drawstring waist and a continuous, closed waistband that is sewn with a multi-needle chain stitch. There shall be four (4) nylon web Velcro fasteners (keepers) sewn into the waistband to support a nylon Sam Browne belt. The two (2) nylon fasteners in the back shall be approximately in the middle of each rear pocket. The keepers shall be at least 6" continuous top to bottom by 1" wide.

### **FRONT FLY:**

The inset front fly shall have a 7" zipper.

### **SIZE TAG:**

The shorts shall have a sewn in label giving care instructions, sizes, and fiber content.

### **SIZE RANGE:**

Small	Medium	Large	XLarge	XXLarge	XXXLarge
26-30	32-34	36-38	40-42	44-46	48-50

**This page  
Starts  
The beginning  
Of civilian  
Clothing.**

**LONG SLEEVE DRESS SHIRTS (Female)**  
**5070 RANGE**  
**EDWARDS GARMENT COMPANY**  
**(Information Office with embroidery)**

If measurement falls between sizes, order next larger size.

ORDER SIZE:	2	4	6	8	10	12	14	16	18	20	22	24	26	28
IF BUST MEASURES:	31	32	33	34	35½	37	38½	40½	42½	44½	46½	48½	50½	52½
IF HIPS MEASURE:	35	36	37	38	40	42	44	46	48	50	52	55	58	61

**FABRIC:**

60% Cotton/40% Polyester  
92 by 46 count fine oxford cloth  
Pre-cured easy care finish  
Special intensive dyes for color retention  
Weight 4.6 oz.

**DESIGN:**

Banded collar model  
¼" topstitching on collar  
One pointed bottom patch pocket – edge stitched  
Shoulder yoke  
Straight bottoms for in or out wear  
Seven (7) buttons on 1¼" stitched-down placket front  
One button barrel cuffs with rounded corners

**CONSTRUCTION:**

Two (2) piece die cut collars with 2½" points  
Two (2) piece 1<sup>3</sup>/<sub>16</sub>" collar band die cut  
Reverse V tacks at top corners of pocket for extra strength  
Die cut yoke with center pleat in back  
Top seams are twelve (12) stitches per inch  
Inside seams are sew serge  
Folder joining seam on shoulders  
¾" bottom hem  
Box sleeve facing  
Singer machine buttonholes  
Permanent woven size labels in collar band seam  
Machine wash warm, tumble dry warm, only non-chlorine bleach when needed, use no solvents, use warm iron  
Finished garments are shelf pack – 1 pin

**LINING:**

250 Dacron polyester bias cut collar interlining for body and shape retention.  
3.75 weight Dura press pre-shrunk bias cut interlining in band  
2440 Remy lined cuffs

**THREAD:** 100% white polyester thread

## **Long Sleeve Dress Shirt (Female) - continued**

### **BUTTONS:**

Seven (7) white 17 ligne four (4) hole buttons on front and two (2) on each cuff

Collar button down – 14 ligne buttons 1 each point

28 stitches in each button – (seven (7) in each hole)

**SHORT SLEEVE DRESS SHIRT (Female)**  
**5020 RANGE**  
**EDWARDS GARMENT COMPANY**  
**(Information Office with embroidery)**

If measurement falls between sizes, order next larger size.

ORDER SIZE:	2	4	6	8	10	12	14	16	18	20	22	24	26	28
IF BUST MEASURES:	31	32	33	34	35½	37	38½	40½	42½	44½	46½	48½	50½	52½
IF HIPS MEASURE:	35	36	37	38	40	42	44	46	48	50	52	55	58	61

**FABRIC:**

60% Cotton/40% Polyester  
92 by 46 count fine oxford cloth  
Pre-cured easy care finish  
Special intensive dyes for color retention  
Weight 4.6 oz.

**DESIGN:**

Banded collar model  
¼" topstitching on collar  
One pointed bottom patch pocket – edge stitched  
Shoulder yoke  
Straight bottoms for in or out wear  
Seven (7) buttons on 1¼" stitched-down placket front

**CONSTRUCTION:**

Two (2) piece die cut collars with 2½" points  
Two (2) piece 1<sup>3</sup>/<sub>16</sub>" collar band die cut  
Reverse V tacks at top corners of pocket for extra strength  
Die cut yoke with center pleat in back  
Top seams are twelve (12) stitches per inch  
Inside seams are sew serge  
Folder joining seam on shoulders  
¾" bottom hem  
Singer machine buttonholes  
Permanent woven size labels in collar band seam  
Machine wash warm, tumble dry warm, only non-chlorine bleach when needed, use solvents, use warm iron  
Finished garments are shelf pack – 1 pin

**LINING:**

250 Dacron polyester bias cut collar interlining for body and shape retention.  
3.75 weight Dura press pre-shrunk bias cut interlining in band.

**THREAD:** 100% white polyester thread

**BUTTONS:**

Seven (7) white 17 ligne four (4) hole buttons on front  
Collar button down – 14 ligne buttons 1 each point  
28 stitches in each button (seven (7) in each hole)

**UNIFORM TROUSER (FECHHEIMER #35233 - Women)**  
**(Records / Info)**

**FABRIC:**

100% DACRON POLYESTER 12-12 1/2 OZ./LINEAR YARD (60" WIDTH) ELASTIC WEAVETENSILE STRENGTH: 240 LBS WARP 212 LBS FILLING FABRIC INCORPORATE A WASHABLE AND DRY CLEANABLE SOIL RELEASE FINISH COLOR: NAVY BLUE

**DESIGN:**

Slack shall be manufactured from a women's uniform trouser pattern with a plain front and one dart on each rear panel above the hip pockets. Slack shall be straight leg design. The slack shall incorporate two quarter top front pockets and two hip pockets.

**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 front pockets will be quarter top style with an opening of 5 1/2" and a depth of 5 1/4" 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 shall be made of the basic fabric and shall measure a minimum of 2" in width.

The two hip pockets shall have a minimum of 5" wide opening and a 5 3/4" depth measured from the bottom of the pocket opening. Hip pockets shall be constructed using the double welt method on a automatic back pocket welt machine and the welts shall be finished in such a manner that there is no topstitching (topstitched hip pockets shall be cause for rejection). The corners of the hip pocket openings shall have firm straight bartacks for reinforcing strength (triangle bartacks are unacceptable). 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 must be attached to the trouser with a zig-zag stitch. The waistband must contain BAN-ROL to prevent roll over and have three strand snugtex to keep shirts tucked in. The waistband closure shall be accomplished with a crushproof 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 shall be set on and closed using a lockstitch (use of a chainstitch is unacceptable) to stitch in the band seam through the outer fabric and the waistband curtain. The waistband must be topstitched 1/16" below the waistband seam for added strength. Waistband to incorporate elasticized system in rear to ensure comfort and proper fit.



## UNIFORM TROUSER (FECHHEIMER #35233 - Women) continued

### 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 five belt loops, of which are to be Keystone style. Keystone loops shall measure no less than 1 3/4" in width at the top and no less than 1 1/4" at the bottom. The center back loop shall be a 3/4" wide straight loop. The Keystone loops shall be sewn into the bottom of the waistband and the top of the 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.

### PRESSING AND FINISHING:

Trouser must be neatly pressed on hothead presses and properly shaped. Outseams and inseams must be pressed open. Trouser must be cleaned and finished in such a manner that there are no loose threads.

### LABELS:

Slacks 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. Each size ticket must state both the size designation and the actual waist measurement and hip measurement. Garment must be made in the United States Of America and bear a union label.

### SIZES:

Ladies trousers must be sized as illustrated in the following chart:

#### Female Trouser Finished Measurements:

SIZES	6	8	10	12	14	16	18	20	22	24	26
WAIST	26"	27"	28"	30"	32"	34"	36"	38"	40"	42"	44"
HIP	38"	39"	40"	42"	44"	46"	48"	50"	52"	54"	56"

**UNIFORM SWEATER  
SAN FRANCISCO KNITTING COMPANY  
STYLE #5600**

**Description**

100% Pil-Trol with V57, to reduce pilling, technology acrylic V-neck button front cardigan sweater. Long sleeve. Two front pockets.

**Color**

Navy

**Sizes**

Unisex sizes XS, S, M, L, XL, XXL, 3XL, 4XL, 5XL, 6XL.

	XS	S	M	L	XL	XXL	3XL	4XL	5XL	6XL	+OR-
Chest	19	20	21.5	23	24.5	26	27	28	29	30	1"
Body Length	26	26.5	27.5	28.5	30	31	32	32	32	32.5	1"
Sleeve Length	31.5	32.5	33.5	34.5	35.5	36.5	37.5	37.5	37.5	37.5	1"

**SHORT SLEEVE KNIT SHIRT - #8131-1**  
**COLOR: RED / NAVY / WHITE / TAN (Records with embroidery)**

**GENERAL REQUIREMENTS:**

1. Failure to complete the compliance questions following each section below will result in automatic rejection of such bids as non-responsive.
2. All garments details not specifically described herein, tailoring, styling, construction, materials and components must match the standard reference sample.
3. Pre-bid samples required at the time of the bid opening.
4. Samples may be subjected to laboratory testing at the discretion of the contracting officer. Bidders are responsible for all testing costs of their sample garments.
5. Bidders must enclose evidence (dated manufacturers catalogs or similar) that this item is currently a commercial in-stock style. The successful bidder will provide a full size run of try-on garments within 10 days for agency approval.
6. Garments will have a warranty covering (at minimum) defects in materials and workmanship for one (1) year.
7. Garments must be manufactured to ISO 9001 quality assurance standard. (AG1622)

**SHELL FABRIC:**

8. 9.0 – 9.5 oz. Per linear yard 35% B.COOL Polyester / 65 % Cotton double pique knit with 70 denier textured polyester face and 30/1 cotton back.

**TRIM:**

9. Interlining: 100% polyester weft fusible
10. Button: melamine, 20 ligne, matching shell fabric

**DESIGN AND CONSTRUCTION:**

11. Short sleeve knit shirt.
12. 2-button front placket.
13. Knit sport collar with collar stays.
14. Extra-long shirt tail.

**CUSTOMIZATION:**

15. Emblems
16. Reflective lettering
17. Name tab

**STANDARD SIZE RANGE:**

18. Sizes: unisex XS – 3XL

**MEASUREMENTS:**

19. Unisex regular length: Size L
  - a. Neck 19 (plus or minus 0.5 inches)
  - b. ½ Chest 24.5 (plus or minus 0.75 inches)
  - c. Back Length 34.5 (plus or minus 0.5 inches)
  - d. Sleeve Length 7 (plus or minus 0.5 inches)

**LONG SLEEVE SHIRT (PARKING ENFORCEMENT)  
FLYING CROSS ITEM #45W6625  
(With Epaulets and Pocket Flaps)**

**FABRIC:**

Content: All synthetic tropical weave 65% Dacron Polyester/35% Rayon conforming to the following specifications:  
Weight: 6.6 oz./yd. 2  
Construction: 49 warp by 36 filling yarns per sq. inch. All yarn size 10/1 singles  
Air Permeability: Ft. 3/Min/Ft. 2 131 ASTM D 737-46  
Tensile: Break strength 105 warp – 90 filling (lbs.)  
Properties: Tear strength 9.7 warp – 8.5 filling (lbs.)  
Pilling: Minimum 4.9 rating

**COLOR:**

Medium Blue

**STYLE:**

Coat style, form fitting, collar attached, long sleeves with barrel cuffs. Two (2) pleated breast pockets and scalloped flaps. Shoulder straps. Full badge reinforcement. Matching inside yoke and collar band of high lustre Dacron/Cotton Poplin.

**COLLAR & STAND:**

Collar points to measure 3½" long at points with fused-in Mylar stays. Collar height at rear 1½". Topstitched ¼" off the edge. Collar stand to measure 1<sup>5</sup>/<sub>16</sub>" at rear and band to be dye cut and interlined with stabilizer Mello-Press (#285 in collar, "Crease N Tack" in band).

**FRONT:**

The front shall have a top center 1½" wide with two (2) rows of stitches <sup>7</sup>/<sub>8</sub>" apart. The shirt will have seven (7) buttons and buttonholes on the front, spacing between each will be 3¾" except the spacing between the neck button and the first button on the front which will be 3¼". Top center interlined with #550 Mello-Press. The fronts shall be joined to the yoke so that both raw edges of the yoke are turned under, with the front sandwich between, then all three (3) are stitched down with a <sup>1</sup>/<sub>16</sub>" raised stitch. Safety stitch joining unacceptable.

**SHOULDER STRAPS:**

A symmetrical shape top-stitched ¼" off the edge to be set on yoke with leading top stitch conforming with front joining seam. To measure 2" at sleeve tapering to 1<sup>3</sup>/<sub>8</sub>" and set not more than ½" from folded collar. Cross stitched approximately 2" from sleeve seam. Creased and edge stitched shoulder strap construction unacceptable.

Contrasting Color: Midnight Blue (Navy)

**BADGE ENFORCEMENT:**

Two-ply sling 1" wide centered over left pocket and stitched to shoulder seam and flap setting stitch. To have two (2) buttonhole eyelets approximately 1¼" from top of pocket flap spaced 1¼" apart and centered on sling.

## **FLYING CROSS ITEM #45W6625 continued**

### **POCKETS:**

Two (2) breast pockets with 1½" stitched pleats. Pocket to measure 5<sup>5</sup>/<sub>8</sub>" wide, 6" deep. Left breast pocket to have 1½" pencil stitch. Each pocket to have Velcro tape ¾" long by ½" wide, positioned on both edges of pocket to correspond with outer scalloped flap points as sample.

### **FLAPS:**

Deep scalloped design to measure 5<sup>7</sup>/<sub>8</sub>" across and 2<sup>3</sup>/<sub>4</sub>" in depth at center point, 2¼" at sides. Secured to shirtfront approximately ¼" above pocket. Left flap to have invisible pencil opening 1½" to correspond precisely with pencil slot of pocket. Both flaps to be interlined with #550 stabilized Mello-Press. Creased and edge stitched pocket flap construction unacceptable.

Contrasting Color: Midnight Blue (Navy)

Under side of the flap to have Velcro tape ¾" long by ½" wide positioned on outer points of both pocket flaps.

### **SLEEVES:**

Straight at width no bias – of one piece shaped at head, jacket type. Sleeve vent 5½" long with top and bottom facings. Top facing to measure 1<sup>1</sup>/<sub>8</sub>" wide point blocked at top. Under facing ½" wide.

### **BUTTONS:**

First grade 19 ligne pearlescent plastic to match.

### **STITCHING:**

Single needle throughout. All topstitch ¼" off the edge. Sleeve inserting and side close felling, safety stitched.

### **THREAD:**

All sewing threads to be fast color polyester wrap to match.

### **MILITARY CREASES:**

Seven (7) baked in sharp military creases on all shirts. One crease on each front to be centered vertically through pocket and flap.

Spacing for military creases on shirt back to be proportionate to the size of the shirt as follows:

- Sizes 14 - 15½ - creases to be 4<sup>3</sup>/<sub>4</sub>" apart;
- Sizes 16 - 18, inclusive – creases to be 5<sup>3</sup>/<sub>8</sub>" apart as measured from the center crease.

Military creases on both sleeves to be centered on the middle of the shoulder strap.

### **CONSTRUCTION:**

Collars, flaps, and shoulder straps are made by the conventional construction. Top ply, bottom ply, and interlining are first stitched together, then turned right side out and finally topstitched.

**SHORT SLEEVE SHIRT (PARKING ENFORCEMENT)  
FLYING CROSS ITEM #95R6625  
(With Epaulets and Pocket Flaps)**

**FABRIC:**

Content: All synthetic tropical weave 65% Dacron Polyester/35% Rayon conforming to the following specifications:  
Weight: 6.6 oz./yd. 2  
Construction: 49 warp by 36 filling yarns per. Sq. inch. All yarn size 10/1 singles  
Air Permeability: Ft. 3/Min/Ft. 2 131 ASTM D 737-46  
Tensile: Break Strength 105 warp – 90 filling (lbs.)  
Properties: Tear Strength 9.7 warp – 8.5 filling (lbs.)  
Pilling: Minimum 4.9 rating

**COLOR:**

Medium Blue

**STYLE:**

The style shall be known as a convertible collar, short sleeve, coat shirt, with full-length tail and form fitting. The shirt is to have two (2) outside breast pockets and scalloped flaps having one button each. Also to have full badge sling and shoulder straps. The back to have a double yoke, with high lustre Dacron/Cotton Poplin yoke trim.

**COLLAR:**

Convertible collar shall be one piece and to measure 3¼" long at points. The collar shall be made with fused-in Mylar stays. Collar to be topstitched ¼" off the edge. To be interlined with #285 Mello-Press.

**FRONT:**

Each front shall have a facing 3" in width. The left front shall have a top center 1½" wide with two (2) rows of stitches 7/8" apart. Stitching on top center is not to be visible on the turn-back facing. The shirt will have seven (7) buttons and buttonholes on the front, spacing between each will be 3¾" except the spacing between the neck button and the first button on the front which will be 2½". Top center interlined with #550 Mello-Press.

The fronts shall be joined to the yoke so that both raw edges of the yoke are turned under, with the front sandwich between, then all three (3) are stitched down with a 1/16" raised stitch. Safety stitch joining unacceptable.

**SHOULDER STRAPS:**

A symmetrical shape top-stitched ¼" off the edge to be set on yoke with leading topstitch conforming with front joining seam. To measure 2" at sleeve tapering to 1¾" and set not more than ½" from folded collar. Cross-stitched approximately 2" from sleeve seam. Creased and edge stitched shoulder strap construction unacceptable.

Contrasting Color: Midnight Blue (Navy)

**BADGE REINFORCEMENT:**

Two-ply sling 1" wide centered over left pocket and stitched to shoulder seam and flap setting stitch. To have two (2) buttonhole eyelets approximately 1¼" from top of pocket flap spaced 1¼" apart and centered on sling.

## **FLYING CROSS ITEM #95R6625**

### **POCKETS:**

Two (2) breast pockets with 1½" stitched pleats. Pocket to measure 5<sup>5</sup>/<sub>8</sub>" wide, 6" deep. Left breast pocket to have 1½" pencil stitch.

Each pocket to have Velcro tape ¾" long by ½" wide, positioned on both edges of pocket to correspond with outer scalloped flap points.

### **FLAPS:**

Deep scalloped design to measure 5<sup>7</sup>/<sub>8</sub>" across and 2<sup>3</sup>/<sub>4</sub>" in dept at center point, 2¼" at sides. Secured to shirtfront approximately ¼" above pocket. Left flap to have invisible pencil opening 1½" to correspond precisely with pencil slot of pocket. Both flaps to be interlined with #550 stabilized Mello-Press. Creased and edge stitched pocket flap construction unacceptable.

Contrasting color: Midnight Blue (Navy)

### **SHORT SLEEVES:**

Sleeves are to be straight and whole, to have ¾" hem and to finish approximately 9" long from shoulder seam.

### **BUTTONS:**

First grade 19 ligne pearlescent plastic to match.

### **STITCHING:**

Single needle throughout. All topstitched ¼" off the edge. Sleeve inserting and side close felling, safety stitched.

### **THREAD:**

All sewing threads to be fast color polyester core polyester wrap to match.

### **MILITARY CREASES:**

Seven (7) baked in sharp military creases on all shirts. One crease on each front to be centered vertically through pocket and flap.

Spacing for military creases on shirt back to be proportionate to the size of the shirt as follows:

Sizes 14 - 15½" – creases to be 4<sup>3</sup>/<sub>4</sub>" apart;

Sizes 16 - 18, inclusive – creases to be 5<sup>3</sup>/<sub>8</sub>" apart  
as measured from the center crease.

Military creases on both sleeves to be centered on the middle of the shoulder strap.

### **CONSTRUCTION:**

Collars, flaps, and shoulder straps are made by the conventional construction. Top ply, bottom ply, and interlining are first stitched together, then turned right side out, and finally topstitched.

**UNIFORM TROUSER (FECHHEIMER #35230 – Men)  
(Parking Enforcement)**

**FABRIC:**

12-12 1/2 OZ./LINEAR YARD (60" WIDTH) ELASTIQUE WEAVE TENSILE STRENGTH: 240 LBS WARP 212 LBS FILLING FABRIC SHALL INCORPORATE A WASHABLE AND DRY CLEANABLE 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, two (2) hip pockets, and a watch pocket. 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 pocket 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 hip pockets shall have a minimum opening of 5 3/8" 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 in such a manner that there is no topstitching (topstitched hip pockets shall be cause for rejection). The corners of the hip pocket openings shall have firm straight bartacks for reinforcing strength (triangle bartacks are unacceptable). 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.

The watch pocket shall be located on the right front at the waistband. This pocket shall have a minimum opening and depth of 2 3/4". The front of the pocket shall be made of pocketing fabric and the back of the pocket shall be made of basic fabric and the two pieces are securely stitched together. Each corner of the pocket opening shall have a firm straight bartack.

**WAISTBAND:**

The trouser will be made with the Freedom Fit II® waistband system, which is designed to provide the wearer with a more comfortable and better fitting trouser. Freedom Fit II® waistband lining is constructed using the "closed method" and shall measure 2" wide when finished. The waistband closure shall be accomplished with a crush proof hook and eye. The hook and eye shall be reinforced with stays made of a 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 1/16" below the waistband seam for added strength. The top portion of the inside of the waistband is to consist of the same fabric as used for pocketing (70% polyester 30% cotton - minimum 80 X 62



## **UNIFORM TROUSER (FECHHEIMER #35230 – Men) continued**

(+/-) 2 count). The fabric is to be cut on the bias for maximum comfort. To be 1 3/4" wide and to finish 1 1/8" wide after construction.

Upper waistband curtain to be inner lined with stretch Ban-Rol canvas. The waistband lining is composed of which give it a two zone comfort fit and breath ability. The top part of the waistband has two functions, it stabilizes the waistband and prevents waistband rollover and allows for a comfort stretch when the wearer bends or sits. This elastic is constructed with an open weave to allow for breath ability around the waist. The specifications for the upper elastic are as follows:

**Width:** 1 1/2"  
**Overall Content:** 38% Polyester, 45% Nylon, 17% Spandex  
**Stretch:** 20%

The lower part of the waistband is designed to stretch over the hips for comfort and also aid in keeping the slack positioned properly on the waist. This elastic is woven with an open weave for maximum breath ability around the lower waist. The lower elastic portion of the band has an area of exposed Neoprene rubber which acts as a shirt keeper. The specifications for the lower elastic are as follows:

**Width:** 1 3/4"  
**Overall Content:** 13% Polyester, 49% Nylon, 16% Spandex, 22 % Rubber  
**Stretch:** 50%

**Note: In a performance stretch waistband, the upper and lower portion of the band will perform different functions.**

The upper portion should allow a comfort fit at the waist when bending or sitting, and must maintain a crisp, clean appearance at the outer waistband. This part of the band will stretch 20% and be firm enough to prevent waistband rollover.

The bottom portion of the waistband stretches over the hip to give support to the lower back and abdomen. In addition, this high stretch portion of the band should constantly be pressed up by the hips, preventing the slack from slipping down while being worn, even if heavy keys, change, or other items are carried in the pockets or on the belt.

The three (3) rubberized strands ensure that shirts stay tucked in for neat appearance.

**FLY:**  
Trousers 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.

## **UNIFORM TROUSER (FECHHEIMER #35230 – Men) continued**

### **BELT LOOPS:**

There shall be a minimum of seven belt loops, six of which are to be Keystone style. Keystone loops shall measure 1 3/4" in width at the top and 1 1/4" at the bottom. The center back loop shall be a 3/4" wide straight loop. The Keystone loops shall be sewn into the bottom of the waistband and the top of the 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.

### **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 pressed open. Trouser 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 in the following stock sizes:

REGULAR RISE:	28 - 54 (EVEN ONLY OVER SIZE 38)
SHORT RISE:	28 - 40 (EVEN SIZES ONLY)

## PLEATED SHORTS (PARKING ENFORCEMENT)

**COLOR:**

Navy Blue.

**STYLE:**

Male and Female.

**FABRIC:**

65/35 polyester/cotton 7.5 oz twill material.

**FEATURES:**

Shorts will have two front slash pockets, two set-in back pockets (woman's style may have only one back pocket) and brass zipper. Men's inseam will measure approximately 8", woman's inseam will measure approximately 7 1/2". Shorts will have pleated front with a relaxed fit design.

**BLAUER LIGHTWEIGHT JACKET (PARKING ENFORCEMENT)  
STYLE #6020  
COLOR: BLUE**

**SHELL FABRIC:**

Cloth Type: Nylon 70 denier warp and 2-ply taslanized nylon 70 denier filling, plain weave, treated with durable fluorocarbon water and stain release agents.  
Count: Warp 158 – filling 68  
Weight (coated): 3.5 oz. per sq. yard  
Break Strength: Warp 210 min. lbs. – filling 100 min. lbs.  
Tear Strength: Warp 4 min. lbs. – filling 6 min. lbs.  
Shrinkage: Warp 2% max. – filling 2% max.  
Color Fastness and Crocking: Good  
Back Coating: Honeycomb pattern printed urethane non-ravel coating to insure breathability, prevent seam slippage and to mail shell fabric appearance.  
Color: See specified garment color.

**PERMANENT INSULATED LINING:**

Cloth Type: 100% Nylon, 70 Denier plain weave taffeta  
Count: Warp 104 (+/- 2) – filling 86 (+/- 2)  
Weight: 1.8 oz. per sq. yard  
Break Strength: Warp 125 min. lbs. – filling 85 min. lbs.  
Tear Strength: Warp 3.5 min. lbs. – filling 2.1 min. lbs.  
Shrinkage: Warp 2% max. – filling 2% max.  
Color Fastness and Crocking: Good  
Color: Charcoal

**REMOVABLE INSULATED LINING:**

Face Fabric:  
Cloth Type: 100% Nylon, 70 Denier plain weave taffeta  
Count: Warp 104 (+/- 2) – filling 86 (+/- 2)  
Weight: 1.8 oz. per sq. yard  
Break Strength: Warp 125 min. lbs. – filling 85 min. lbs.  
Tear Strength: Warp 3.5 min. lbs. – filling 2.1 min. lbs.  
Shrinkage: Warp 2% max. – filling 2% max.  
Color Fastness and Crocking: Good  
Color: Charcoal

**INSULATION:**

Body: DuPont Thermolite Soft BSCL-200 quilted in a 6” diamond pattern  
Sleeves: DuPont Thermolite Soft BSCL-100 quilted in a 6” diamond pattern

**BACKING FABRIC:**

Cloth Type: 32 gauge 40 Denier 2-bar reverse jersey tricot  
Count: Wales: 28 Courses: 28  
Color: Black

## **BLAUER STYLE #6020 continued**

### **INTERLINING:**

#### ***Epaulets, Pocket Flaps, Front Waistband, and Fronts:***

Cloth Type: 100% nylon osnaburg  
Count: Warp 32 – filling 26  
Weight: 3.55 oz. per sq. yard  
Break Strength: Warp 60 min. lbs. – filling 35 min. lbs.  
Shrinkage: Warp 3% max. – filling 3% max.  
Color: Charcoal

#### ***Collar And Collar Stand:***

Cloth Type: 100% polyester non-woven  
Weight: 2.5 oz. per sq. yard  
Break Strength: Machine direction: 5 lbs. per inch  
Across machine: 5½ lbs. per inch  
Color: Charcoal

### **BINDING:**

Cloth Type: 100% Nylon, 70 Denier plain weave taffeta  
Count: Warp 104 (+/- 2) – filling 86 (+/- 2)  
Weight: 1.8 oz. per sq. yard  
Break Strength: Warp 125 min. lbs. – filling 85 min. lbs.  
Tear Strength: Warp 3.5 min. lbs. – filling 2.1 min. lbs.  
Shrinkage: Warp 2% max. – filling 2% max.  
Color Fastness and Crocking: Good  
Binding color for removable insulated liner: Charcoal  
Binding color for jacket facing: Black

### **KNIT:**

The yarn used for all knit shall be single-ply 450 Denier 100% continuous filament texturized polyester in a 1 by 1 rib knit. The knit cloth shall count 28 wales and 18 courses and shall weight 11 oz. per square yard. Knit wristlets will be flare type measuring 7 by 3¼” and shall weight 13 oz. per dozen. The waistband cloth shall be 6½” in the wale direction. All knit shall show a minimum of “good” fastness to light; perspiration; wet-dry cleaning and shall show a Munsel value for crocking no lower than 8½. Knit color shall match the shell fabric.

### **POCKETING:**

The pocketing shall be a 2.1 twill, 100% polyester fill, polyester/rayon warp, color black.

### **SNAPS:**

Snaps shall be non-rusting, 24 ligne, gun metal finish on brass, heavy duty closure, black nylon cap.

### **METAL UNIFORM BUTTONS:**

Metal uniform buttons will be 24 ligne genuine 24 karat gold #2 plated or genuine chrome plated as specified by agency.

## **BLAUER STYLE #6020 continued**

### **ZIPPERS:**

The front zipper shall use a one-way, delrin, black, 22" long, size #5. Liner to have 42" aluminum or delrin size #3, color black. Side vent zippers shall be one-way black nylon coil, size #5, 9½" long.

### **HOOK & LOOP:**

The hook and loop tape shall meet specification MIL-F-21840 and shall measure 1" wide for all closures. Color shall be dyed to match shell.

### **EYELETS:**

The eyelets shall be black aluminum, size #100.

### **THREAD:**

Thread for single needle lock stitch seam shall be size #50 polyester wrapped polyester core, vat dyed. Thread for safety stitch seams shall be polyester wrapped polyester core, vat dyed size #50 in the needles and size #70 in the loopers.

### **GENERAL DESIGN:**

The jacket shall be a waist length bomber style, front zipper closure, collar with collar stand and zip-out full body and sleeve quilted insulated liner. There shall be knit cuffs, knit waistband, a badge tab on left breast, epaulets, two (2) lower reverse pleated patch pockets with flaps and side opening for hands inside cut-in hanging pocket, zippered side vents with snap tabs, and two (2) piece set-in sleeves.

### **REMOVABLE INSULATED LINER:**

The removable insulated liner shall be a zip-out type full body liner with full sleeves. Quilting shall be stitched in a 6" diamond pattern. There shall be a bound cut out in each armhole for comfort and a bound slit positioned in the left breast to allow access to the pocket on the permanent lining of the jacket. The liner shall be bound throughout with the binding material as specified.

### **SLEEVES:**

Sleeves shall be 2-piece, set-in coat style with shoulder pads, epaulets, and knit cuffs.

### **COLLAR:**

The collar and collar stand shall be made of two (2) plies of the shell fabric plus one layer of interlining. The collar shall be well shaped and symmetrical with the collar points measuring 3½" wide and the center back width measuring 3½".

### **EPAULETS:**

The epaulets shall be 2½" in width at the sleeve-joining seam and shall taper to 2" in width at the narrow end. There shall be a sewn eyelet hole at the pointed end with a metal uniform button secured with a toggle. Epaulets shall be constructed of two (2) plies of shell fabric and one ply of interlining and shall be topstitched along the periphery with a ¼" gauge. Epaulets shall be sewn to the jacket using a box and cross-stitch 1¼" out from the sleeve head toward the collar and topstitched along both sides of the point at the end.

## **BLAUER STYLE #6020 continued**

### **POCKETS:**

There shall be two (2) reverse pleated two-way opening patch pockets on the front of the jacket. The pleated patch pockets shall measure approximately 7 ½" wide by 7½" high and be lined with pocketing. There shall be a center pointed flap, measuring approximately 7½" wide by 3¼" at the center constructed of two (2) plies of shell fabric and one ply of interlining. There shall be a 1" by 1" piece of hook and loop in the center of each flap and pocket along with a sewn eyelet to accommodate the specified metal uniform button by means of a toggle. The corners of the flaps shall be secured with mini-gripper snaps. The side opening shall measure 5½" and be securely bartacked at the top and bottom.

The permanent Taffeta lining shall have a double-piped inside pocket on the left breast measuring 5½" in width and 7" deep.

### **SIDE VENTS:**

There shall be zippered side vent openings on each side with 2¼" snap tab set in the back waistband with a male snap portion set to the end. The zipper shall be set first to the shell, waterproof-breathable permanent lining, and facing. The jacket shall then be turned and the zipper shall be topstitched through and through with a ¼" gauge. A female snap portion shall be set through the front waistband to secure the front and back of the jacket when the side vent zipper is open.

### **WAISTBAND:**

The knit waistband shall finish 2¾" wide with a tab front measuring 2¾" wide by 2¼" high constructed from two (2) plies of shell fabric plus one ply of interlining. There will be a zipper as specified sewn into each side for equipment and weapon access. Snap tabs made from shell fabric shall be sewn into the bottom of the back waistband for closure of the side opening.

### **INTERLINING:**

The following parts shall be interlined: collar, collar stand, epaulets, pocket flaps, front waistband, and fronts.

### **FRONTS & FACING:**

A full front and back facing shall be constructed of shell fabric with a concealed zipper track to accommodate the zip-out insulated liner. The front facing shall measure approximately 2½" in width at the bottom of the jacket increasing gradually to 4" at the gorge and will continue until it ends at the shoulder seam of the jacket. The back facing shall run from shoulder seam to shoulder seam and shall be 1½" in width.

### **SEAM STITCHING:**

All stitching shall be even and uniform. All seams on the shell shall be single needle lock stitch construction. Joining seams on permanent lining and removable insulated liner shall be five (5) thread safety stitch construction. Back tacks on seams shall be minimum of ½" long. All seams shall be an eight (8) stitch per inch minimum to twelve (12) stitches per inch maximum. Seams shall be free from puckering, pleats, runoffs, and raw edges.

## **BLAUER STYLE #6020 continued**

### **SCOTCHLITE TRIM PACKAGE:**

The Scotchlite trim package shall be designed to retro-reflect at the users discretion, and will otherwise remain hidden. The under collar shall have a 1" wide by 8½" long piece of silver 3M Scotchlite #8730 heat applied and centered so that the Scotchlite is hidden when the collar is down. Hidden in the front pocket shall be a pointed silver 3M Scotchlite #8930 reflective tab measuring 2½" when attached to the pocket and tapering to 2¼" at the narrow end. The length shall measure approximately 6½". The epaulet will fasten to a button hidden in the pocket pleat.

### **SIZE RANGE:**

The size range shall be unisex sizing:

Regular: SX – 3XL  
Long: M – 3XL

### **MEASUREMENTS:**

Size:	SX	S	M	L	XL	2XL	3XL	
Chest:	42	46	50	54	58	62	66	(inches)
Back Length:	Size M		Reg. = 26, Long = 27					
Sleeve Length:	Size M		Reg. = 17, Long = 18					

(Chest measured at armhole and side seam, +/- ¾")

(Back length measured from collar at neck to bottom of waistband +/- ½")

(Back length increased ½" for each size: i.e. size L Reg. = 26 ½")

### **COUNTRY OF ORIGIN:**

The garment must be manufactured entirely in the United States of America from fabrics and materials manufactured entirely in the United States of America.

### **STOCK PRODUCT:**

To insure availability of style and color for the purpose of maintaining departmental uniformity for future purchases, bidders must provide evidence in the form of catalogs, price lists, or similar written material that this item is currently available on an "as needed" basis. The successful bidder will be required to provide a full size run of try-on garments within 10 days for agency approval, sizing of personnel, and for further evidence of in-stock availability.

### **LIMITED WARRANTY:**

Contract garments shall carry a manufacturer's printed warranty hangtag. A sample warranty hand tag must accompany the bid package as well. The tag shall instruct the owner of their rights under the warranty.

Limited Warrant will contain at minimum the following:

*Warranty Coverage:* Manufacturer agrees to warrant to the original purchaser that the product will be free from defects in materials and workmanship for a period of three (3) years from date of purchase. The product will remain waterproof in normal use for a period of three (3) years from date of purchase.



## **BLAUER STYLE #6020 continued**

*Warranty Service:* Should a covered product become defective or lose waterproofness during the warranty period, simply return it to the manufacturer with dated proof of purchase. The manufacturer agrees to repair or replace at its option any item determined to be defective and will return to purchaser at no charge.

*Limitations:* This warranty does not cover abnormal wear and tear, nor the color fastness of fluorescent fabrics, nor damage from chemicals, fire, misuse, accident or negligence. This warrant only applies to the original purchaser of the covered product and is not transferable.

For a complete copy of the Limited Warrant, please contact the manufacturer.

**UNIFORM RAINCOAT (PARKING ENFORCEMENT)  
NEESE WITH DETACHABLE HOOD ( FLUORESCENT YELLOW)**

**GENERAL REQUIREMENTS:**

1. Failure to complete the compliance questions following each section below will result in automatic rejection of such bids as non-responsive.
2. All garment details not specifically described herein, tailoring, styling, construction, materials and components must match the standard reference sample.
3. Pre-bid samples required at the time of the bid opening.
4. Samples may be subjected to laboratory testing at the discretion of the contracting officer. Bidders are responsible for all testing costs of their sample garments,
5. Bidders must enclose evidence (dated manufacturers catalogs or similar) that thus item is currently a commercial in-stock style. The successful bidder will provide a full size run f try-on garments within 10m days for agency approval.
6. Garments will have a warranty covering (at minimum) defects in materials and workmanship for three (3) years.
7. Garments must meet ANSI/ISEA 107-2004 class II requirements.
8. Garments must be manufactured to ISO 9001 quality assurance standard. (AG0911)

**SHELL FABRIC:**

9. 100% Polyester Oxford 300Dx300D PU visible coating 2000mm waterproofness 3000gm MVP; shall resist oil discoloration and be odor free. (Color: see specific garment color)

**LINING:**

10. 100% Nylon ripstop with a total count of 210. (Color: black)

**TRIM:**

11. Eyelets: 3L matt. (Color: black)
12. Hook and loop: woven nylon base. (Color: black)
13. Plastic fastener: 100mm translucent plastic pin.
14. Reflective trim: 2 inch wide, 3M Scotchlite™ silver reflective fabric on 2.5 inch black ribbon.
15. Snaps: non-rusting, 24 ligne, gunmetal finish on brass, heavy-duty closure.
16. Seam tape: waterproof seam sealing tape, 1.0 inch in width compatible with the coating compound.
17. Front zipper: vision, two way, size #5, 29 inches. (Size: L / Reg, black)

**DESIGN AND CONTRUCTION:**

18. B.Dry waterproof, windproof, breathable raincoat.
19. ANSI/ISEA 107 Class II certified.
20. Double storm flaps cover delrin zipper.
21. Filly lined with ripstop nylon taffeta.
22. Hi-contrast Scotchlite™ reflective trim around chest, sleeves and cuffs.
23. Raglan drop shoulder for unrestricted movement,
24. Side opening for access to equipment through pockets,
25. One-piece sleeve with sleeve tab adjustment.

## **CUSTOMIZATION (OPTIONAL):**

- 26. Name tab
- 27. Optional upgrade to ANSI Class II with 2¾" reflective stripe above hem
- 28. Stock or custom graphics
- 29. Snap-off hood
- 30. Badge tabs

## **SIZE RANGE:**

Unisex:

Regular: S – 3XL

## **MEASUREMENTS:**

Regular Length: Size: L

Chest:	53	(plus or minus 0.75 inches)
Sweep:	58	(plus or minus 0.75 inches)
Back Length	48	(plus or minus 0.75 inches)
Sleeve Inseam:	21	(plus or minus 0.5 inches)

## MALE FINISHED MEASUREMENTS

EFFECTIVE 11/00 ALL INSPECTORS ARE TO USE THE FOLLOWING  
FINISHED MEASUREMENTS ON MALE SHIRTS USING THE LS/SS 97 PATTERNS

### Male Finished Shirt Measurements (Patterns marked using LS/SS 97 Patterns)

- All numbers below are represented in inches.

Convertible Collars	Neck Size	Chest	Waist	Back Width	Back Length	Side Seams	S/S Length
	13	37	33	14 1/4	30 3/4	17 1/2	9 3/8
<b>X-Small =</b>	<b>13 1/2</b>	39	35	15	31	17 5/8	9 1/2
	14	41	37	15 3/4	31 1/4	17 3/4	9 5/8
<b>Small =</b>	<b>14 1/2</b>	43	39	16 1/2	31 1/2	17 7/8	9 3/4
	15	45	41	17 1/4	31 3/4	18	9 7/8
<b>Medium =</b>	<b>15 1/2</b>	47	43	18	32	18 1/8	10
	16	49	45	18 3/4	32 1/4	18 1/4	10 1/8
<b>Large =</b>	<b>16 1/2</b>	51	47	19 1/2	32 1/2	18 3/8	10 1/4
	17	53	49	20 1/4	32 3/4	18 1/2	10 3/8
<b>X-Large =</b>	<b>17 1/2</b>	55	51	21	34	19 5/8	10 1/2
	18	57	53	21 3/4	34 1/4	19 3/4	10 5/8
<b>2X-Large =</b>	<b>18 1/2</b>	59	55	22 1/2	34 1/2	19 7/8	10 3/4
	19	61	57	23 1/4	34 3/4	20	10 7/8
<b>3X-Large =</b>	<b>19 1/2</b>	63	59	24	35	20 1/8	11
	20	65	61	24 3/4	35 1/4	20 1/4	11 1/8
<b>TOLERANCE</b>	<b>+1/4 / -1/8</b>	<b>+/- 1"</b>	<b>+/- 1"</b>	<b>+/- 1/2"</b>	<b>+/- 1"</b>	<b>+/- 1"</b>	<b>+/- 1/2"</b>

NOTE: Collar band finishes 1/2" over marked size in length.  
Collar height at center back to finish 1 1/2"  
Collar band at center back to finish 1 5/16"  
\*Long Sleeve lengths finish 1/2" over marked size.  
Long Bodies finish 3" longer in the body than regular bodies.

Tolerance = +/- 1/2" in length

**Male Finished Trouser Measurements**

- All numbers below are represented in inches.

<b>Size</b>	<b>Waist</b>	<b>Seat</b>	<b>Rise</b>	<b>Thigh</b>	<b>Knee</b>	<b>Bottom</b>
26	26	35	8	24	18.25	17.5
27	27	36	8 1/8	24.5	18.5	17 5/8
28	28	37	8.25	25	18.75	17.75
29	29	38	8 3/8	25.5	19	17 7/8
30	30	39	8.5	26	19.25	18
31	31	40	8 5/8	26.5	19.5	18 1/8
32	32	41	8.75	27	19.75	18.25
33	33	42	8 7/8	27.5	20	18 3/8
34	34	43	9	28	20.25	18.5
35	35	44	9 1/8	28.5	20.5	18 5/8
36	36	45	9.25	29	20.75	18.75
37	37	46	9 3/8	29.5	21	18 7/8
38	38	47	9.5	30	21.25	19
39	39	48	9 5/8	30.5	21.5	19 1/8
40	40	49	9.75	31	21.75	19.25
41	41	50	9 7/8	31.5	22	19 3/8
42	42	51	10	32	22.25	19.5
43	43	52	10 1/8	32.5	22.5	19 5/8
44	44	53	10.25	33	22.75	19.75
45	45	54	10 3/8	33.5	23	19 7/8
46	46	55	10.5	34	23.25	20
47	47	56	10 5/8	34.5	23.5	20 1/8
48	48	57	10.75	35	23.75	20.25
49	49	58	10 7/8	35.5	24	20 3/8
50	50	59	11	36	24.25	20.5
51	51	60	11 1/8	36.5	24.5	20 5/8
52	52	61	11.25	37	24.75	20.75
53	53	62	11 3/8	37.5	25	20 7/8
54	54	63	11.5	38	25.25	21
55	55	64	11 5/8	38.5	25.5	21 1/8
56	56	65	11.75	39	25.75	21.25
57	57	66	11 7/8	39.5	26	21 3/8
58	58	67	12	40	26.25	21.5
59	59	68	12 1/8	40.5	26.5	21 5/8
60	60	69	12.25	41	26.75	21.75

**Female Finished Measurements**

Size:	26	28	30	32	34	36	38	40	42	44	46	48	50	52	Tolerance
<b>Chest:</b>	32"	34"	36"	38"	40"	42"	44"	46"	48"	50"	52"	54"	56"	58"	+/- 1"
<b>Waist:</b>	27"	29"	31"	33"	35"	37"	39"	41"	43"	45"	47"	49"	51"	53"	+/- 1"
<b>Hips:</b>	32"	34"	36"	38"	40"	42"	44"	46"	48"	50"	52"	54"	56"	58"	+/- 1"
<b>Back:</b>	29"	29"	29"	29"	29"	29"	29"	29"	29"	29"	29"	29"	29"	29"	+/- 1"
<b>Short Sleeve:</b>	8 1/4"	8 1/2"	8 3/4"	9"	9 1/4"	9 1/2"	9 3/4"	10"	10 1/4"	10 1/2"	10 3/4"	11"	11 1/4"	11 1/2"	+/- 1/2"
<b>Sport Collar:</b>	11 7/8"	12 3/8"	12 7/8"	13 3/8"	13 7/8"	14 3/8"	14 7/8"	15 3/8"	15 7/8"	16 3/8"	16 7/8"	17 3/8"	17 7/8"	18 3/8"	+ 1/4" / - 1/8"
<b>Dress Collar:</b>	11 3/8"	11 7/8"	12 3/8"	12 7/8"	13 3/8"	13 7/8"	14 3/8"	14 7/8"	15 3/8"	15 7/8"	16 3/8"	16 7/8"	17 3/8"	17 7/8"	+ 1/4" / - 1/8"
<b>Yoke:</b>	14"	14 3/8"	14 3/4"	15 1/8"	15 1/2"	15 7/8"	16 1/4"	16 5/8"	17"	17 3/8"	17 3/4"	18 1/8"	18 1/2"	18 7/8"	+/- 1/2"

**Ladies Size Chart**

female sleeve length

**Sleeve Length:**

**Chest Size**

	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
<b>XS</b>	28	28	28	28	28	29	29	30	31	31	31	31	31	31	31	31	31	32
<b>S</b>	29	29	29	29	29	30	30	31	32	32	32	32	32	32	32	32	32	32
<b>M</b>	30	30	30	30	30	31	31	32	33	33	33	33	33	33	33	33	33	33
<b>L</b>	31	31	31	31	31	32	32	33	34	34	34	34	34	34	34	34	34	34
<b>XL</b>	32	32	32	32	32	33	33	34	35	35	35	35	35	35	35	35	35	35
<b>XXL</b>	33	33	33	33	33	34	34	35	36	36	36	36	36	36	36	36	36	36
<b>XXXL</b>	34	34	34	34	34	35	35	36	37	37	37	37	37	37	37	37	37	37

**Ladies Long Sleeve Lengths**

Sizes 30, 32, 34	S = 29"	M = 30"	L = 31"
Sizes 36, 38	S = 30"	M = 31"	L = 32"
Size 40	M = 32"	L = 33"	
Sizes 42 & up	M = 33"	L = 34"	

**NOTE:**

Collar height at center back to finish 1 1/2"

Collar band at center back to finish 1 5/16"

Tolerance on Long Sleeves is +/- 3/4"

### Female Finished Trouser Measurements

- All numbers below are represented in inches.

Size	Waist	Seat	Rise	Thigh	Knee	Bottom
4	25	36	9 1/8	24	18.25	17 3/8
6	26	37	9.25	24.5	18.5	17.5
8	27	38	9 3/8	25	18.75	17.58
10	28	39	9.5	25.5	19	17.75
12	30	41	9.75	26.5	19.5	18
14	32	43	10	27.5	20	18.25
16	34	45	10.25	28.5	20.5	18.5
18	36	47	10.5	29.5	21	18.75
20	38	49	10.75	30.5	21.5	19
22	40	51	11	31.5	22	19.25
24	42	53	11.25	32.5	22.5	19.5
26	44	55	11.5	33.5	23	19.75
28	46	57	11.75	34.5	23.5	20
30	48	59	12	35.5	24	20.25
32	50	61	12.25	36.5	24.5	20.5

#### INSEAM MEASUREMENTS

Short	34"
Regular	36"
Long	38"

#### RISE MEASUREMENTS

Short	-1/2
Regular	0
Long	-3/4