

**INDIANA STATE POLICE**  
**WOMEN'S TROUSER SPECIFICATIONS**  
Flying Cross by Fechheimer Item: X1 INSPTRSW01-1 26

**FABRIC:**

Content: 54% Polyester 44% Wool 2% Lycra  
Weight: 12.7 oz.  
Weave: Serge  
Color: French Blue

**STRIPE FABRIC:**

Content: 55% Polyester 45% Wool  
Weight: 14 – 14.5 oz. Per linear yard  
Weave: Gabardine  
Color: Navy Blue

**STYLE:**

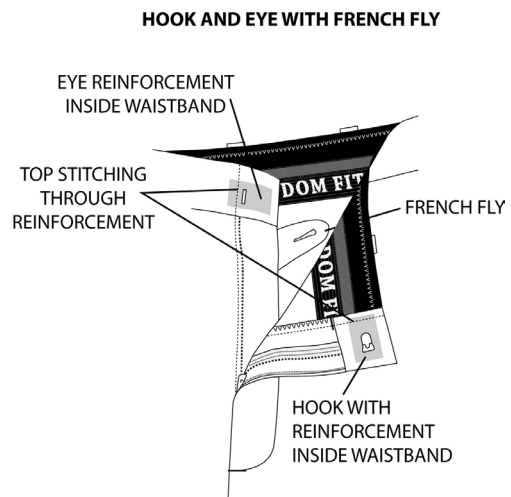
The trousers shall be manufactured from an up-to-date women's uniform trouser pattern. The trouser styling shall be (2) knife notch front pockets, two (2) hip pockets professionally finished with no visible topstitching and (2) concealed zipper cargo pockets. Gusseted crotch with folded front lining.

**LINING MATERIAL:**

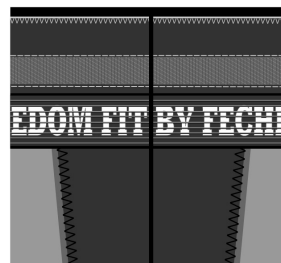
The pocketing and fly lining material shall be 70% Polyester / 30% Cotton, 2.9 oz. per square yard (60" width) with a minimum 78 x 48 count. Pocketing must have a durable press finish and the color of the pocketing must be cadet blue.

**WAISTBAND:**

The trouser will include the Freedom Fit® with Tru-Grip waistband curtain designed to provide the wearer with maximum comfort, functionality, and professional appearance. The waistband itself shall be constructed using the "closed method" and shall measure a minimum of 1-7/8" wide when finished. The waistband closure shall be accomplished with a single crush proof hook and eye centered on the waistband for maximum wearer comfort. The hook and eye shall be reinforced with 7/8-inch non-woven stay tape that is anchored with topstitching through and through to the top of the waistband (bartacks in place of topstitching shall be cause for rejection). In addition to the stitching of the waistband when it is set onto the trouser, the waistband must also be topstitched below the waistband seam through the waistband curtain for added strength. The back center seam of the trouser to be finished to allow for alterations (with ample basic trouser fabric and waistband curtain material to allow trouser size to be increased at least one size). The outlet in the seat is to be in proportion to the waist outlet so seat may also be let out. Seat seam must be sewn with a tandem needle machine (double-needle stitch) for maximum strength.



**FREEDOM FIT WAISTBAND  
WITH TRU-GRIP**



The Freedom Fit Waistband Curtain with Tru-Grip is composed with a two zone stretch feature to provide the wearer maximum comfort and security.

The top part of the waistband curtain is a lower stretch zone designed to give with the wearer's movements including sitting or bending. This upper zone of the waistband curtain is composed of a 1-1/2-inch 30% stretch monofilament

elastic that is around the entire waistband providing stability, preventing waistband rollover, and allowing for a comfort stretch with wearer movement. The specifications for the upper elastic are as follows:

Width: 1-1/2-inch

Stretch: 30%

Warp: 150 Denier textured polyester, 21 ends

Filling element 1: .011" diameter transparent type 66 Nylon, one end

Filling element 2: 150 denier textured polyester, 2 ends

Elastomer: 840 denier transparent spandex, 21 ends

Overall contents: 59% polyester, 41% rubber.

The upper zone of the waistband curtain interlining (elastic band) is to be lined in the same color and material as the trouser pocketing and it shall be cut on a 45-degree bias to allow for maximum stretch. The waistband trouser fabric shall be cut across the cloth to allow for maximum stretch in synergy with the Freedom Fit with Tru-Grip Waistband Curtain.

The lower part or lower zone of the waistband shall be the same color as the trouser pocketing. It is designed to stretch over the hips for comfort, help keep the trouser securely positioned on the wearer's waist, and to help prevent slippage. This lower portion of the waistband curtain is made with 65% stretch elastic. This zone also incorporates Tru-Grip, a 1/2" wide rubberized surface area which acts to hold the shirt in place inside the trouser to help keep shirt tails tucked into the waist for a neat and professional appearance. (Use of a single silicone strip or strips instead of 1/2" wide rubberized surface area shall be cause for rejection.) The specifications for the lower elastic are as follows:

Width: 1-3/4-inch

Stretch: 65%

Face: 70/2 stretch nylon, 104 ends

Binder: 150/2 textured polyester, 32 ends

Edge: 70/2 stretch nylon, 11 ends

Figure: 100/2 stretch nylon, 16 ends

Rubberized area: 55-gauge rubber, 33 ends

Catch Thread: 70/2 stretch nylon, 1 end

Elastomer Core: 1680 Lycra, 38 ends

Elastomer top cover: 150/1 textured polyester, 1 end

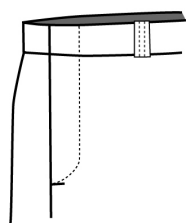
Elastomer bottom cover: 100/1 bright nylon, 1 end

Filling: 250 monofilament nylon, 2 ends

Overall contents: 46% nylon, 15% polyester, 25% rubber, 14% spandex.

#### FLY:

##### **"J" STITCH**



The trouser shall have a brass metal zipper with memory lock brass slider secured by metal stopper at base. 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 trouser fabric (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 material and color as the pocketing. The fly lining shall be sewn to the left fly continuing below the zipper into the crotch area in a neat and

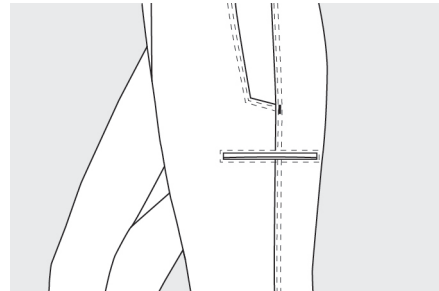
durable manner. A button shall be located on the left fly corresponding with the French Fly tab to provide a clean and comfortable closure. Topstitching of fly to be installed with automatic "J" stitch equipment eliminating puckering and providing a clean finish. There shall be a firm straight bartack at the bottom of the fly going through the zipper tape for maximum strength. Bartack shall line up with starting point of "J" stitch.

#### BELT LOOPS:

There shall be a minimum of seven belt loops 3/4" in width of double thickness with a 2 1/2" opening. Each loop must have a non-woven interlining for added durability. All loops (except back center) must be sewn into the top and bottom of the waistband. 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 to allow for easier waist alteration.

#### POCKETS:

The two (2) front pockets will be knife notch style with a minimum opening of 6" and a minimum depth of 5-3/4" measured from the bottom of the opening. Front pocket facing and barrier to be made of the basic trouser fabric. Facing shall be a minimum of 1" and barrier shall measure approximately 4" (measured to the inside edge of pocket lining).



The two (2) hip pockets shall have a minimum 5-3/8" wide (bartack to bartack) opening and a minimum depth of 6-3/4" measured from the bottom of the pocket opening. Hip pockets shall be constructed using the double welt method on an automatic welt machine. 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 straight bartacks for reinforcement (use of triangular bartacks shall be cause for rejection). Hip pocket facing and barrier are to be made of basic trouser fabric. Facing shall be a minimum of 3/4" and the barrier shall be a minimum of 1-1/2". There shall be a dart centered above each hip pocket to waistband. Dart shall be approximately 2-3/4" long tapered from 3/8" at waistband and shall be installed with automatic equipment for a clean non-puckered finish.

#### CONCEALED CARGO POCKETS:

There shall be two single welt concealed cargo pockets, one on each side seam. The pockets will be centered across the side seam and placed approximately 1 1/2" below the bottom of the front knife notch pocket. Pocket opening shall close with a charcoal nylon zipper. The measurements of the pocket shall be a minimum of 7" wide and a minimum of 7 3/4" deep. Each concealed cargo pocket shall have a hidden cell phone compartment set on the front side of the pocket lining.

#### CREASES:

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

#### STRIPE:

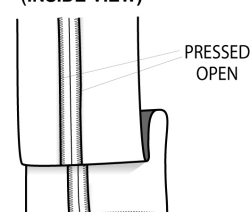
Trousers shall have 1 1/4" stripe to the waistband sewn on top of side seam on back panel, made of navy blue (stripe to line up with stripe on cargo pocket welt).

#### SEAT:

The seat must be sewn with a Tandem Needle Machine (double-needle stitch) for maximum durability.

#### STITCHING, PRESSING & FINISHING:

##### **SERGED INSEAM/OUTSEAM (INSIDE VIEW)**



The trouser must be stitched with matching thread. Trouser must be neatly pressed on Hothead Presses and properly shaped. Inseams are edge serged on automatic equipment for uniformity of quality and shall be pressed open for a smooth pucker-free finish with repeated cleaning and pressing. Outseam shall be finished with 1/8" double needle construction. The trouser must be cleaned and finished to eliminate loose threads.

LABELS:

Trouser must have a permanent label providing care instructions and waist size. A removable paper ticket showing the size, fabric content, cut number, and WPL or RN number must be on the outside of the waistband. Ticket to be matchbook style installed with plastic staples for easy removal without damaging trouser material and showing size when trousers are stacked.

Garments must be USA made.