



Royal Canadian Mounted Police
Gendarmerie royale du Canada

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Specification

Trousers, FR, Special Duty, Air Services

This document has 26 pages including the drawings.

This document was created in English.

The document is available in English and French.

English/Anglais
Français/French

The photograph on this page is for reference only.



RCMP VIEWING SAMPLE

A viewing sample, when available, will be supplied to the successful bidder.

This will be used for the guidance of the manufacturer in all factors not covered by this specification or referred to therein. Variation from the specification may appear in the sample in which case the specification must govern.

It may be obtained from:

Royal Canadian Mounted Police
ATTN: Uniform and Equipment Program
(440 Coventry Road, Warehouse Building)
73 Leikin Drive
Ottawa, Ontario
K1A 0R2

It will be sent “prepaid” and is to be returned “prepaid”.

The viewing sample must be returned to the RCMP in the same condition as received by the manufacturer. Lost or damaged viewing samples must be replaced by an identical item or the RCMP must be reimbursed for the cost of an acceptable replacement.

SPECIFICATION**Trousers, FR, Special Duty, Air Services****1 Definitions**

- 1.1 This specification must govern the manufacture and inspection of the Trousers, FR, Special Duty, Air Services. The specific item covered under this specification with stock number is as follows:
- i. 6945-100 – Trousers, FR, Special Duty, Air Services, Special / Pantalon de fonction spéciale ignifuge pour les services aériens, taille spéciale.
- 1.2 This specification, pattern, drawing, viewing sample, or other information issued in connection therewith, may only be used for specific enquiries, solicitations, or orders placed on behalf of the Royal Canadian Mounted Police.
- 1.3 This specification supersedes all previous specifications for Trousers, FR, Special Duty, Air Services.
- 1.4 This specification has been translated into French from this original English language document.

2 Applicable Specifications

- 2.1 The following publications are applicable to this specification and to the issues in effect on the date of the solicitation, unless otherwise specified.
- 2.2 **American Society for Testing and Materials (ASTM)**
- | | |
|--------------------|---|
| D5169 – 98 (R2021) | Standard Test Method for Shear Strength (Dynamic Method) of Hook and Loop Touch Fasteners |
| D5170 – 98 (R2021) | Standard Test Method for Peel Strength (“T” Method) of Hook and Loop Touch Fasteners |
- 2.3 **General Services Administration, Commercial Item Description (CID)**
- | | |
|------------|-----------------------------|
| A-A-55217C | Thread, Aramid, Spun Staple |
|------------|-----------------------------|

3 General Requirements

- 3.1 The article or material covered by this specification must be free from material and manufacturing defects that may affect its appearance or serviceability. In all

particulars not covered by this specification or contract documents, production must be equivalent in all respects to the pattern and viewing sample.

- 3.2 **Design** – Trousers, FR, Special Duty, Air Services, must be constructed from a fire resistant material, navy blue in colour. The trousers must be straight leg with “cut-out” front slash hip pockets with deep pocket bags, side flat cargo pockets with flaps, back pockets and a fly front with slide fastener. There must also be lower leg cargo pockets with slide fastener closure and pen pockets on each leg. The trousers must have a finished hem with storm cuffs.

4 **Detail Requirements**

4.1 **Components**

- 4.1.1 **Shell Material I** – The Shell Material I is RCMP stock item number 9195-000, Cloth, Ripstop FR, Dark navy in colour and must be purchased from the RCMP.

- 4.1.2 **Lining** – The lining material is RCMP stock item number 9157-000, Cloth, Poplin FR, navy in colour and must be purchased from the RCMP.

- 4.1.3 **Fusible** – The interfacing must be 100% cotton woven fusible interfacing with a polyamide dot coating, with a mass of $70 \text{ g/m}^2 \pm 5 \text{ g/m}^2$.

4.1.4 **Thread**

- 4.1.4.1 **Thread for Seams (Fire Resistant)** – The thread must be aramid, Tex 40, Type I of matching colour, meeting standard A-A-55217C.

- 4.1.4.2 **Thread for Serging (Fire Resistant)** – The thread must be aramid, Tex 27, Type I of matching colour, meeting standard A-A-55217C.

- 4.1.5 **Buttons** – The 4 hole buttons must be 15 mm in diameter, and be nylon in composition and black in colour.

4.1.6 **Slide Fasteners (Fire Resistant)**

- 4.1.6.1 **Slide Fasteners (Fly)** – The slide fastener must be closed ended, injection molded #3 Vislon®, with an automatic locking slider. The tape must be Nomex® and the slide fastener must be black in colour. The slide fastener must come complete with

one bottom stop and two top stops. YKK 23150 VSHRC 36 DA E 1/2*3VSHR-NMX*UL* has been known to meet this requirement.

- 4.1.6.2 **Slide Fasteners (Lower Leg Pocket)** – The slide fastener must be closed ended, injection molded #5 Vislon®, with an automatic locking slider. The tape must be Nomex® and the slide fastener must be black in colour. The slide fastener must come complete with one bottom stop and two top stops. The length must be 9” for all sizes and height groups. YKK 25371 VSHRC 56 DA86 E 5/8*P – T – B*NMX*5VSHR – NMX*UL* has been known to meet this requirement.
- 4.1.7 **Hook and Loop Tape** – The hook and loop tape must be fire retardant and black in colour, with a high life cycle. The combined hook and loop must have no less than 8 P.S.I length-wise shear strength with initial peel strength of not less than 1 P.I.W. when tested to ASTM D5169-98 (R2021), standard test method for shear strength [dynamic method] of hook and loop touch fasteners and ASTM D5170-98 (R2021), standard test method for peel strength ["T" method] of hook and loop touch fasteners."
- 4.1.8 **Elastic**
- 4.1.8.1 **Elastic (Waistband)** – The elastic must be black, 3.8 cm wide, heavy duty nylon with a maximum elongation of 135% and full recovery.
- 4.1.8.2 **Elastic (Storm Cuff)** – The elastic must be black, 1.27 cm wide, heavy duty nylon with a maximum elongation of 135% and full recovery
- 4.2 **Size and Dimensions** – Trousers, Special Duty, Fire Resistant, Blue must be supplied in the sizes specified by the RCMP and to the dimensions given in the scale of measurements and drawings forming part of this specification. The garment components must be shaped, dimensioned and positioned in accordance with the pattern components and pattern requirements as outlined in Appendix A forming part of this specification.
- 4.3 **Construction**
- 4.3.1 **Cutting** – All component parts of the trousers must be cut from the same piece of material and must be cut following the grain line on the pattern piece to ensure uniformity of shade.
- 4.3.2 **Stitching** – Using the specified thread, all stitching must be lockstitch. There must be not less than three or more than four stitches per centimetre. The beginning and

ending of all stitching must be securely backstitched and tacked, unless secured by other stitching. Where seaming, turning and stitching are required the edges must be properly worked out before stitching. Bar tacks must be 10 mm in length, unless otherwise specified, and made with no less than 18 cover stitches per tack. Care must be taken to minimize unsightly gathering and puckering.

- 4.3.3 **Buttonholes** – Buttonholes must be eyelet type, gimp reinforced, with a bar tacked or fish-tailed end and having a minimum of 28 stitches per inch or 11.2 stitches per centimetre. The buttonholes may be “cut first” or “cut after”, and must fit a button as specified in 4.1.5. When “cut after” buttonholes are used, the cut must be clean, close to the stitches so they are equal in appearance to the “cut first” buttonholes.
- 4.3.4 **Side Seams** – The side seams must be stitched together, raw edges serged, turned towards the back and double topstitched with a 2 mm gauge and a 6 mm gauge.
- 4.3.5 **Pockets & Pocket Flaps**
- 4.3.5.1 **Front Slash Pockets** – There must be two front slash pockets constructed from shell material as per para. 4.1.1. They must be bar tacked at each end of the openings. The front slash pocket openings edges must be reinforced in the seam, with an additional material such as twill tape or a woven material used on the straight of grain, to stabilize the pocket opening. The finished edge of the slash pockets must be double topstitched with a 2 mm gauge and a 6 mm gauge. The pockets must be lined with lining material as per para. 4.1.2.
- 4.3.5.2 **Back Pockets and Yoke** – The back yoke must be made from Shell Material as per para. 4.1.1. The back pockets are single welt pockets with button closure, inserted into the seam where the back upper leg panel meets the back yoke. The yoke seam must be turned toward the yoke and topstitched using 6 mm gauge. The pocket bags must be constructed from lining material as per para. 4.1.2. Both back pockets must be equipped with a button as per para. 4.1.5 and a suitably sized buttonhole. The pocket bags must be double turned to enclose raw edges and stitched with 5 mm gauge. Both ends of the pocket must be bar tacked. The completed back pockets and yoke must be shaped and dimensioned as per the pattern and drawings.
- 4.3.5.3 **Flaps** – The pocket flaps must be constructed from shell material as specified in para. 4.1.1. The pocket flap must be topstitched with a 6 mm gauge. The loop tape, as specified in para. 4.1.7, cut in two pieces 2.5 cm x 6.0 cm ± 0.5 cm must be sewn to the inside ply of the pocket flap and two pieces of corresponding hook tape must be sewn to the thigh cargo pocket as per pattern template. The flap must have a bar

tack at each end to secure the opening. The completed flaps must conform in all respects to the drawings, patterns and viewing sample.

- 4.3.5.4 **Thigh Cargo Pockets** – The thigh cargo pockets must be constructed from shell material as per para. 4.1.1 and must be shaped, dimensioned and positioned as per pattern. The hook tape as specified in para. 4.1.7 must be sewn to the pockets as per the drawings and pattern templates. The pockets must be bar tacked as shown in the drawings. All raw edges of the pockets must be serged. The pockets must be applied in accordance with the pattern and drawing 1. Both sides of the pocket and the bottom of the pocket must be stitched down using 2 mm gauge.
- 4.3.5.5 **Lower Leg Cargo Pockets** – The lower leg cargo pockets must be constructed from shell material as specified in para. 4.1.1 and must be shaped, dimensioned and positioned as per pattern and drawings. The slide fastener as specified in para. 4.1.6.2 must be inserted between the cargo pocket welt and lower section of the cargo pocket. There must be pen pockets applied to the top of the lower cargo pocket positioned and dimensioned as per the pattern templates and drawing 4. The outermost layer of the pen pocket must be topstitched through all layers with 2 mm gauge along the bottom and up to 12 cm ± 0.5 cm up each side from the bottom. There must be a third stitching line up the centre of the pen pocket measuring 12 cm ± 0.5 cm from the bottom to create two pen pockets. The three lines of stitching must be bar tacked at the top edge of the stitching, as shown in the drawings. The pen pockets must have hook and loop tape 2.5 cm x 4.8 cm ± 0.2 cm for closure. All raw edges of the pockets must be serged. The pockets must be applied so the closed slide fastener slider is facing toward the back of the trouser and the pen pocket is facing the front of the trouser in accordance with the pattern and drawings. The top and sides of the pockets must be double topstitched with 2 mm and 6 mm gauge.
- 4.3.6 **Fly Opening** – The fly front must be lined with Shell Material I as per para. 4.1.1 and interlined with the material as specified in para. 4.1.3. The fly front must be equipped with a slide fastener as per para. 4.1.6.1. Refer to table I for length by size. The centre front waistband must have a hook and loop closure as per drawing 6. The fly shape and dimensions must conform to the patterns and drawings.
- 4.3.7 **Crotch and Seat Seam** – The crotch seam must be joined together from the front fly notch to the crotch using a 301 lock stitch. The seam must be serged and topstitched using a 2 mm gauge. The seat seam must be joined together by stitching the seat seam continuously from the crotch to the waistband using 301 lock stitch. The seams must be serged and topstitched using a 2 mm gauge. The seat when finished must conform in all respects to the drawings, patterns and viewing sample.

- 4.3.8 **Waistband** – The left and right front waistband and the back waistband must be made of Shell Material I as per para. 4.1.1 and must be interlined with the fusing material as specified in para. 4.1.3. The waistband is lined with a three-piece waistband facing which must be made with the same shell material as the exterior waistband. The waistband facing must be turned to the interior and topstitched through all layers with a 2 mm gauge. The exterior of the waistband must be equipped with six belt loops, stitched to the waistband as per the drawings, and then secured with bar tacks with cover stitches as described in para. 4.3.2 but that are 3 cm ± 0.2 cm long across the bottom edge of the belt loops. The useable height of the belt loops must be 6 cm ± 0.5 cm. There must also be one special belt loop, constructed as per pattern from material as specified in para. 4.1.1, positioned at the center back of the waistband and inserted in the seam as shown in the drawings and viewing sample. Two buttons as specified in para. 4.1.5 must be sewn to the seat seam at 7.5 cm and 10 cm from the top of the waistband for the attachment of the special belt loop. Sandwiched between both front waistbands and the corresponding waistband facings there must be a length of elastic as per para. 4.1.8.1 cut to the pattern template. One end of each elastic must be tacked to the centre of the right front and left front waistband as per drawing 5. The other end of the elastic must be attached to waistband adjuster tabs, made of the same shell material as the waistband, and equipped with hook tape as per para. 4.1.7. The waistband adjuster tabs must exit to the exterior of the garment through the side seams, with the hook tape facing towards the waistband. On either side of the back waistband there must be corresponding loop tape dimensioned and positioned as per the pattern and drawing 5.
- 4.3.9 **Inseam & Gusset** – There must be a gusset made of shell material as per para. 4.1.1 inserted into the inseam at the crotch. The front gusset seam must be serged together and pressed towards the front. The back gusset and inseam must be serged together and pressed toward the back.
- 4.3.10 **Bottom Hem** – The bottom edge of the trousers must be turned twice for a finished hem of 2.5 cm and stitched with 2 mm gauge from folded edge.
- 4.3.11 **Storm Cuffs** – The storm cuffs constructed from shell material as per para. 4.1.1 must be sewn into the trouser leg with two rows of stitching, 20 cm above the finished hem. The bottom of the storm cuff must be turned up 3 cm with the raw edges folded under 1 cm to create a 2 cm wide channel. A 30 cm ± 0.5 cm x 1.27 cm ± 0.2 cm piece of elastic as per para. 4.1.8.2 must be inserted through the channel. The bottom of the storm cuff when finished must extend 5 cm ± 0.5 cm below the finished hem.

4.3.12 **Marking & Cleaning Instructions Labels**


4.3.12.1 **Marking Label (Fire Resistant)** – Each trouser must have either a direct silk screen printed label or a polyurethane adhesive heat transfer label that is heat bonded with inks. It must be applied to the centre back waistband facing as per drawing 5. The label material must not melt, separate, or ignite when tested for Heat Resistance to standard CAN/CGSB 155.20-2017 and/or NFPA 2112. The text must be of permanent inks of a contrasting colour and must withstand at least 50 wash cycles with no apparent change in appearance. All text except for the RCMP stock number and size must be in size 6 font. The RCMP stock number and size must appear in size 8 font. The manufacturer's identification must not appear anywhere on the garment except where indicated on the marking label. The label must contain the following information in English and French. Any portion of a hand written label is not acceptable.

1. Item name in English as written in para. 1.1
2. Item name in French as written in para. 1.1
3. RCMP stock number - reference contract documents. (Ex. 6945-100)
4. Size and height group of the article, combining the size designation referenced in the English and French contract documents. (Ex. L/R - G/R)
5. Date of manufacture, in numeric format year/month (Ex. 2020/11)
6. Your manufacturer identification (Company name or number).

4.3.12.2 **Cleaning Instructions Label (Fire Resistant)** – Each trouser must have either a direct silk screen printed label or a polyurethane adhesive heat transfer label that is heat bonded with inks. It must be applied to the right front pocket bag as per drawing 2. The label material must not melt, separate, or ignite when tested for Heat Resistance to standard CAN/CGSB 155.20-2017 and/or NFPA 2112. The text must be of permanent inks of a contrasting colour and must withstand at least 50 wash cycles with no apparent change in appearance. All text must appear in size 8 font. The manufacturer's identification must not appear anywhere on the garment except where indicated on the marking label. The label must contain the following information in English and French. Any portion of a hand written label is not acceptable.

1. Print information as shown below.

1

	
Machine wash - cold (30°C)	Laver à la machine – à l'eau froide (30 °C)
Do Not use fabric softener or chlorine bleach	Ne pas utiliser d'agent assouplissant ou d'agent de blanchiment
Tumble dry- low (Do Not use dryer sheets)	Séchage par culbutage – à basse température (Ne pas utiliser d'assouplissant en feuilles)
Steam iron - low	Repassage à vapeur - à basse température
DO NOT DRY CLEAN.	NE PAS NETTOYER À SEC.
<p>WARNING</p> <p>FOR LIMITED PROTECTION AGAINST FLASH FIRES ONLY KEEP CLEAN – SOILING MAY REDUCE PROTECTIVE QUALITIES DO NOT REMOVE THIS LABEL</p> <p>AVERTISSEMENT</p> <p>PROTECTION LIMITÉE CONTRE LES FEUX À INFLAMMATION INSTANTANÉE GARDER LE VÊTEMENT PROPRE – LES SALETÉS PEUVENT DIMINUER LES QUALITÉS IGNIFUGES NE PAS RETIRER CETTE ÉTIQUETTE</p>	
Name/Nom :	

5 Quality Assurance Provisions

- 5.1 **Responsibility for Inspection** – Unless otherwise stipulated in the Contract, it is the Contractor's responsibility to satisfy the RCMP, Uniform and Equipment Program that the components and material being supplied conform to this specification. This may be accomplished by performing the tests specified in this specification or by demonstrating to the satisfaction of the RCMP, Uniform and Equipment Program that conformity to this specification of manufacturing processes is assured. The Contractor must use an independent commercial testing establishment.
- 5.2 The RCMP, Uniform and Equipment Program reserves the right to perform any inspection considered necessary to ensure the material and services conform to the specified requirements. For the purpose of inspection, a portion of each delivery not exceeding two percent or two out of any number delivered under 100 may be put to tests that could destroy the articles. If found to be inferior or not in accordance with this specification, all articles so destroyed must be replaced by others of proper quality and pattern at the expense of the Contractor. The entire

delivery may also be rejected if it is found that articles previously rejected due to non-repairable defects are redelivered for inspection.

- 5.3 The Contractor will be promptly notified when any articles are not accepted and such articles will be returned at the contractor's risk and expense.

6. **Scale of Measurement Definitions and Location References**

(Refer to the Scale of Measurements and Drawing 7).

- 6.1 **Waist Circumference (total circumference)** – When the waistband is closed, the waist circumference is the total circumference from centre front to centre front measured at the centre of the waistband. (A).
- 6.2 **Seat Circumference (total circumference)** – When placed flat, fly facing up, the seat is measured across the width of the trouser at the bottom of the fly. The result must be doubled to measure total circumference. (B).
- 6.3 **Inseam Length** – The length is the distance measured from the centre of the gusset at the crotch to the finished hem following along the seam. (C).
- 6.4 **Outseam Length** – The length is the distance measured from the top of the waistband to the finished hem. (D).
- 6.5 **Front Rise** – The measurement from the gusset seam at the crotch to the top of the front waistband along the seam. (E).
- 6.6 **Back Rise** – The measurement from the gusset seam at the crotch to the top of the back waistband along the seam. (F).
- 6.7 **Bottom Circumference (total circumference)** – When placed flat, the bottom is measured across the width at the bottom of leg. The result must be doubled to measure total circumference. (G).

SCALE OF MEASUREMENTS - Trousers, FR, Special Duty, Air Services								
SIZE DESIGNATION		GARMENT MEASUREMENTS						
Rise	Size (Inches)	Waist	Seat	Inseam	Out seam <u>Top of Waistband to hem</u>	Front Rise <u>Top of waistband to gusset seam</u>	Back Rise <u>Top of waistband to gusset seam</u>	Bottom
SHORT	30 S	78.00	102.75	75.75	99.50	23.50	31.75	41.25
	32 S	82.75	107.25	75.75	100.25	24.00	32.00	42.0
	34 S	87.50	111.75	75.75	101.00	24.50	32.25	42.5
	36 S	92.50	116.25	76.0	101.50	25.00	32.75	43.25
	38 S	97.25	120.75	76.0	102.25	25.50	33.00	44.0
	40 S	102.25	125.25	76.0	102.75	25.75	33.25	44.5
	42 S	107.25	129.75	76.0	103.50	26.25	33.50	45.25
	44 S	112.50	134.25	76.0	104.25	26.75	34.00	45.75
	46 S	117.50	138.75	76.25	104.75	27.25	34.25	46.5
	48S	122.50	143.25	76.25	105.25	27.75	34.50	47.0
	50S	127.75	147.75	76.25	106.00	28.25	34.75	47.75
52S	132.75	152.25	76.25	106.50	28.50	35.00	48.25	
REGULAR	30 R	78.00	102.75	80.75	106.50	25.50	33.50	41.25
	32 R	82.75	107.25	80.75	107.00	26.00	34.00	42.0
	34 R	87.50	111.75	80.75	107.75	26.50	34.25	42.5
	36 R	92.50	116.25	81.0	108.50	27.00	34.50	43.25
	38 R	97.25	120.75	81.0	109.00	27.24	34.75	44.0
	40 R	102.25	125.25	81.0	109.75	27.75	35.00	44.5
	42 R	107.25	129.75	81.0	110.25	28.25	35.25	45.25
	44 R	112.50	134.25	81.0	111.00	28.75	35.75	45.75
	46 R	117.50	138.75	81.25	111.50	29.25	36.00	46.5
	48 R	122.50	143.25	81.25	112.25	29.75	36.25	47.0
	50 R	127.75	147.75	81.25	112.75	30.25	36.50	47.75
52 R	132.75	152.25	81.25	113.50	30.50	36.75	48.25	
MEASUREMENT LOCATION		A	B	C	D	E	F	G
TOLERANCES ±		1 cm	1 cm	1.5 cm	1.5 cm	1 cm	1 cm	1 cm

NOTE: All dimensions are in centimetres unless otherwise indicated.

SCALE OF MEASUREMENTS - Trousers, FR, Special Duty, Air Services continued								
SIZE DESIGNATION		GARMENT MEASUREMENTS						
Rise	Size (Inches)	Waist	Seat	Inseam	Out seam <u>Top of</u> Waistband to hem	Front Rise Top of waistband to gusset seam	Back Rise Top of waistband to gusset seam	Bottom
TALL	30 T	78.00	102.75	85.75	113.25	27.50	35.50	41.25
	32 T	82.75	107.25	85.75	114.00	28.00	35.75	42.0
	34 T	87.50	111.75	85.75	114.50	28.50	36.00	42.5
	36 T	92.50	116.25	86.0	115.25	29.00	36.25	43.25
	38 T	97.25	120.75	86.0	115.75	29.25	36.50	44.0
	40 T	102.25	125.25	86.0	116.50	29.75	36.75	44.5
	42 T	107.25	129.75	86.0	117.00	30.25	37.25	45.25
	44 T	112.50	134.25	86.0	117.75	30.75	37.50	45.75
	46 T	117.50	138.75	86.25	118.25	31.25	37.75	46.5
	48 T	122.50	143.25	86.25	119.00	31.75	38.00	47.0
	50 T	127.75	147.75	86.25	119.75	32.25	38.50	47.75
52 T	132.75	152.25	86.25	120.25	32.50	38.75	48.25	
X-TALL	30 XT	78.00	102.75	90.75	120.25	29.50	37.25	41.25
	32 XT	82.75	107.25	90.75	120.75	30.00	37.50	42.0
	34 XT	87.50	111.75	90.75	121.50	30.50	37.75	42.5
	36 XT	92.50	116.25	91.0	122.00	31.00	38.00	43.25
	38 XT	97.25	120.75	91.0	122.75	31.25	38.50	44.0
	40 XT	102.25	125.25	91.0	123.25	31.75	38.75	44.5
	42 XT	107.25	129.75	91.0	124.00	32.25	39.00	45.25
	44 XT	112.50	134.25	91.0	124.75	32.75	39.25	45.75
	46 XT	117.50	138.75	91.25	125.25	33.25	39.50	46.5
	48 XT	122.50	143.25	91.25	125.75	33.75	40.00	47.0
	50 XT	127.75	147.75	91.25	126.50	34.25	40.25	47.75
52 XT	132.75	152.25	91.25	127.25	34.50	40.50	48.25	
MEASUREMENT LOCATION		A	B	C	D	E	F	G
TOLERANCES ±		1 cm	1 cm	1.5 cm	1.5 cm	1 cm	1 cm	1 cm

NOTE: All dimensions are in centimetres unless otherwise indicated.

Table I
Slide Fastener Lengths in inches

Slide Fastener Lengths					
Height Group	Sizes	Front Fly	Height Group	Sizes	Front Fly
Short	30	5"	Tall	30	5 ½"
	32	5"		32	5 ½"
	34	5"		34	6"
	36	5"		36	6"
	38	5"		38	6"
	40	5"		40	6"
	42	5 ½"		42	6 ½"
	44	5 ½"		44	6 ½"
	46	5 ½"		46	6 ½"
	48	5 ½"		48	6 ½"
	50	6"		50	7"
	52	6"		52	7"
Regular	30	5"	X Tall	30	6"
	32	5"		32	6"
	34	5 ½"		34	6 ½"
	36	5 ½"		36	6 ½"
	38	5 ½"		38	6 ½"
	40	5 ½"		40	6 ½"
	42	6"		42	7"
	44	6"		44	7"
	46	6"		46	7"
	48	6"		48	7"
	50	6 ½"		50	7 ½"
	52	6 ½"		52	7 ½"

APPENDIX A

Sealed Pattern Identifier

Pattern Titles: Trousers, FR, Special Duty, Air Services

Patterns – Patterns are available from the RCMP, Uniform and Equipment Program. Firms requested to produce Pre-Award Samples will be provided with the base pattern only. The full set of patterns either in individual sizes or as a graded nest will be provided to the successful bidder after the contract is awarded. The bidder will receive the files electronically in a .DXF format unless paper is requested.

The patterns include seam allowances, drill holes and/or placement templates. All pieces must be cut in the direction indicated on the grain line of the pattern pieces. The scale of measurements indicates the finished garment measurements however the patterns may not reflect the same measurements. The manufacturer is responsible for making changes to the pattern, if necessary, in order to meet the scale of measurements, adjust for shrinkage/stretch and/or to suit the production process, however, the design and grade must not be affected or changed.

All patterns are the property of the RCMP and must be returned upon completion of the contract. Electronic patterns must be deleted from the Contractor's files.

Pattern Pieces: 32 pattern components

Legend:

Shell Material I = Para. 4.1.1

Lining Material = Para. 4.1.2

Fusible = Para. 4.1.3

Cut 1 Single = Cut 1

Cut 1 Paired = Cut 2

Cut 2 Paired = Cut 4

(RSU) = Right Side Up

(GSU) = Glue Side Up

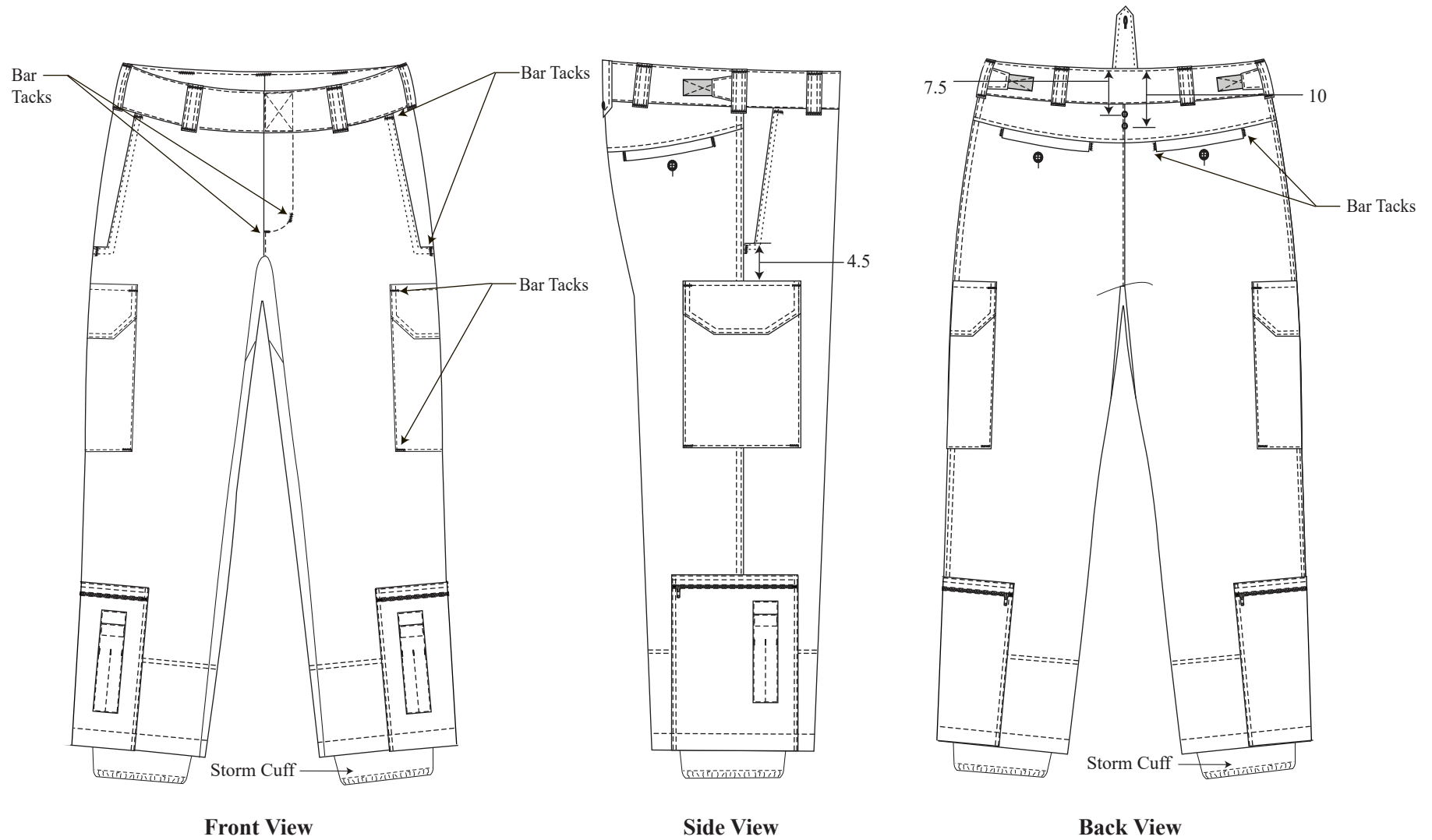
Pattern Components	Nomenclature	Quantity to be cut	Material
1 of 32	Back	1 Paired	Shell Material
2 of 32	Back Yoke	1 Paired	Shell Material
3 of 32	Front	1 Paired	Shell Material
4 of 32	Waistband – Left Front	1 Paired	Shell Material
5 of 32	Waistband – Right Front	1 Paired	Shell Material
6 of 32	Waistband – Back	1 Paired	Shell Material
7 of 32	Right Fly Front	1 Paired	Shell Material
8 of 32	Left Fly Facing	1 Single	Shell Material(RSU)
9 of 32	Belt Loops	1 Single	Shell Material
10 of 32	Special Belt Loop	1 Paired	Shell Material
11 of 32	Pocket Bag – Front	1 Paired	Lining Material
12 of 32	Pocket Bag Facing	1 Paired	Shell Material
13 of 32	Front Pocket Facing	1 Paired	Shell Material
14 of 32	Gusset	1 Single	Shell Material
15 of 32	Waistband Tab	1 Paired	Shell Material
16 of 32	Upper Thigh Cargo Pocket	1 Paired	Shell Material
17 of 32	Pocket Flap – Top Flap	1 Paired	Shell Material
18 of 32	Pocket Flap – Under Flap	1 Paired	Shell Material
19 of 32	Pocket Bag – Back	1 Paired	Lining Material
20 of 32	Back Pocket Facing	1 Paired	Shell Material
21 of 32	Back Pocket Welt	1 Paired	Shell Material
22 of 32	Lower Cargo Pocket	1 Paired	Shell Material
23 of 32	Lower Cargo Pocket Welt	1 Paired	Shell Material
24 of 32	Upper Pen Pocket	1 Paired	Shell Material
25 of 32	Lower Pen Pocket	1 Paired	Shell Material
26 of 32	Storm Cuff	1 Paired	Shell Material
27 of 32	Fusing – Left Fly Facing	1 Single	Fusing (GSU)
28 of 32	Fusing – Waistband – Left Front	1 Single	Fusing (GSU)
29 of 32	Fusing – Waistband – Right Front	1 Single	Fusing (GSU)
30 of 32	Fusing – Waistband – Back	1 Single	Fusing

Pattern Components	Nomenclature	Quantity to be cut	Material
31 of 32	Fusing – Back Pocket Welt	1 Paired	Fusing
32 of 32	Front Waistband – Elastic Template	1 Paired	Elastic

Drawing 1

G.S. 1045-389

Trousers, FR, Special Duty, Air Services



NOT TO SCALE

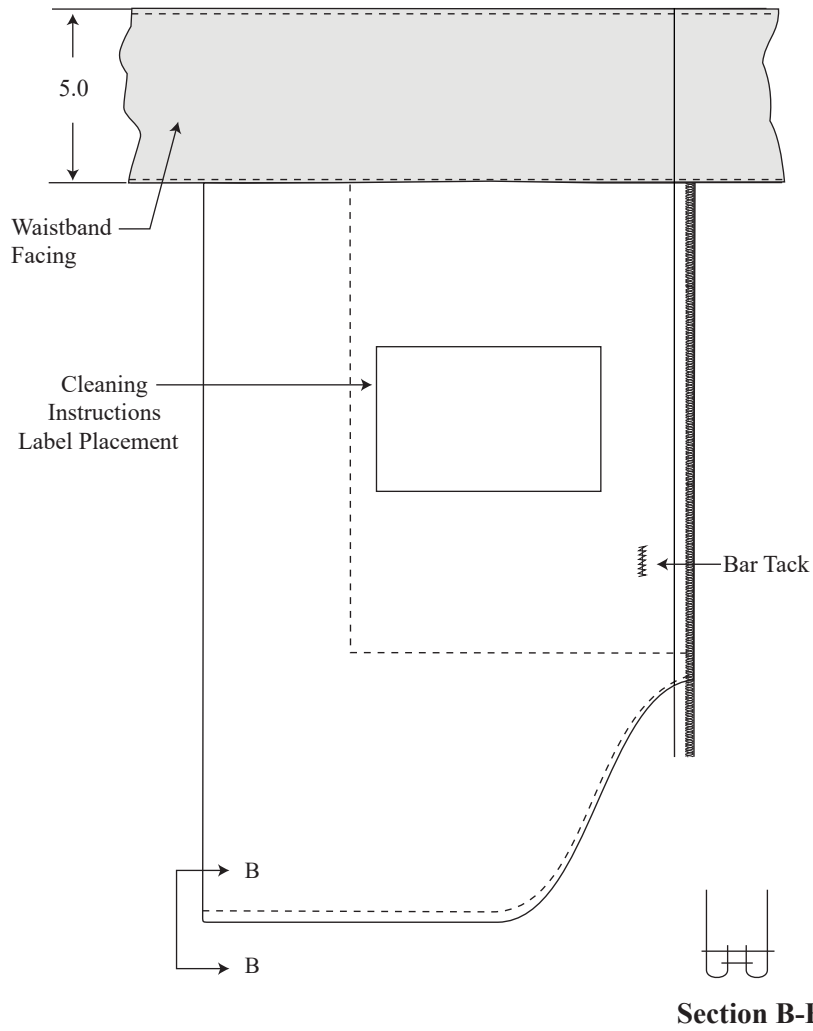
All measurements are shown in centimeters.

± 0.5 cm tolerance acceptable unless otherwise indicated.

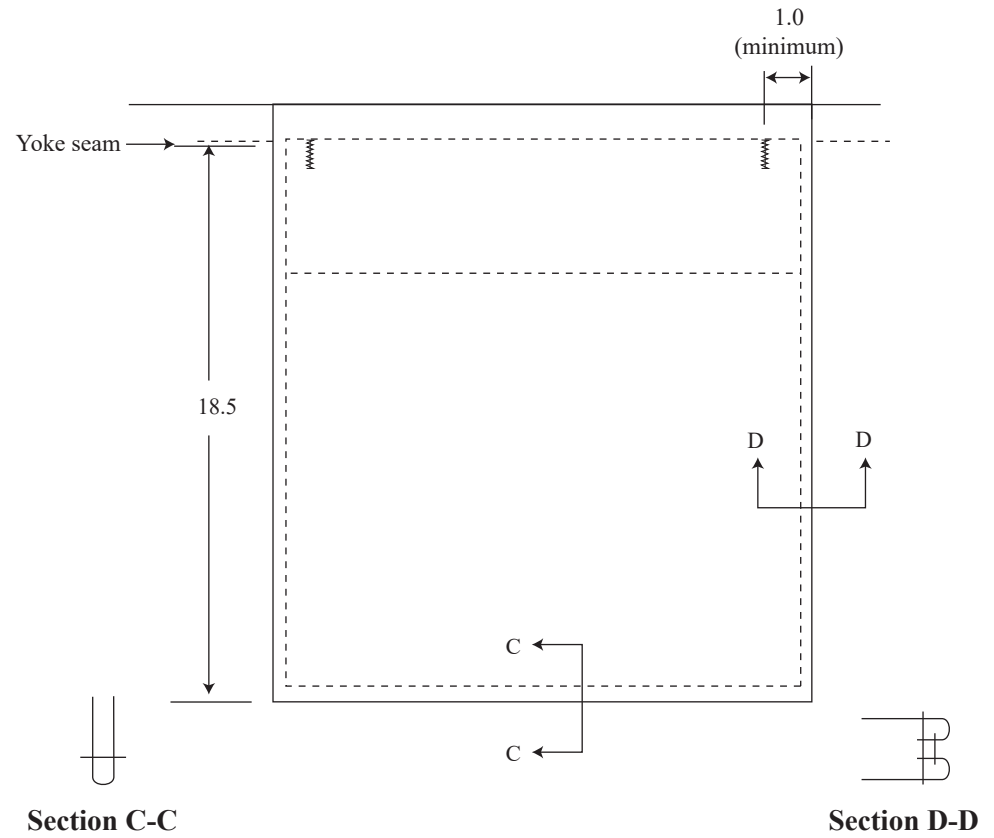
Drawing 2

G.S. 1045-389

Trousers, FR, Special Duty, Air Services Pocket Detail



Front Pocket Detail



Back Hip Pocket Detail

NOT TO SCALE

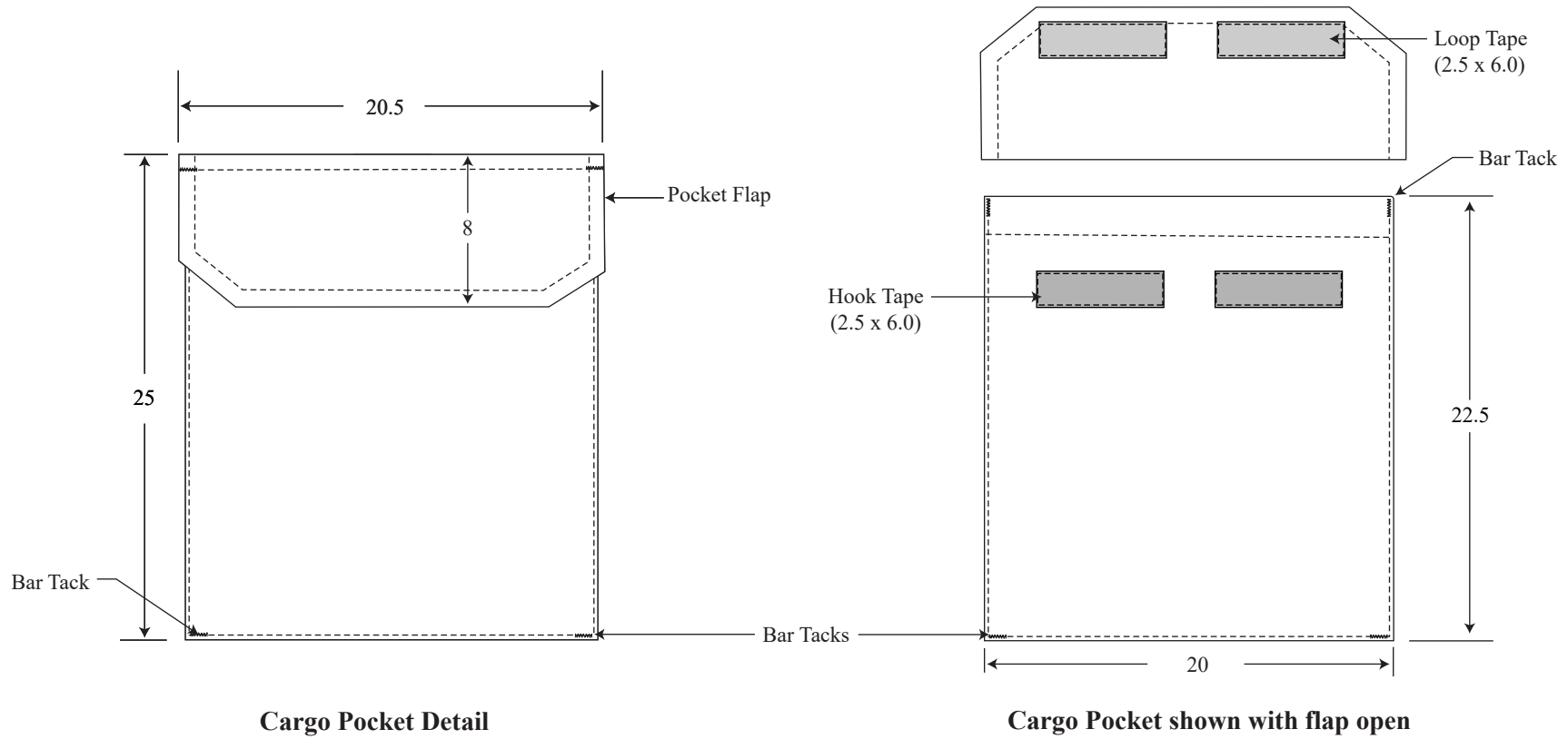
All measurements are shown in centimeters.

± 0.5 cm tolerance acceptable unless otherwise indicated.

Drawing 3

G.S. 1045-389

Trousers, FR, Special Duty, Air Services
Thigh Cargo Pocket Detail



NOT TO SCALE

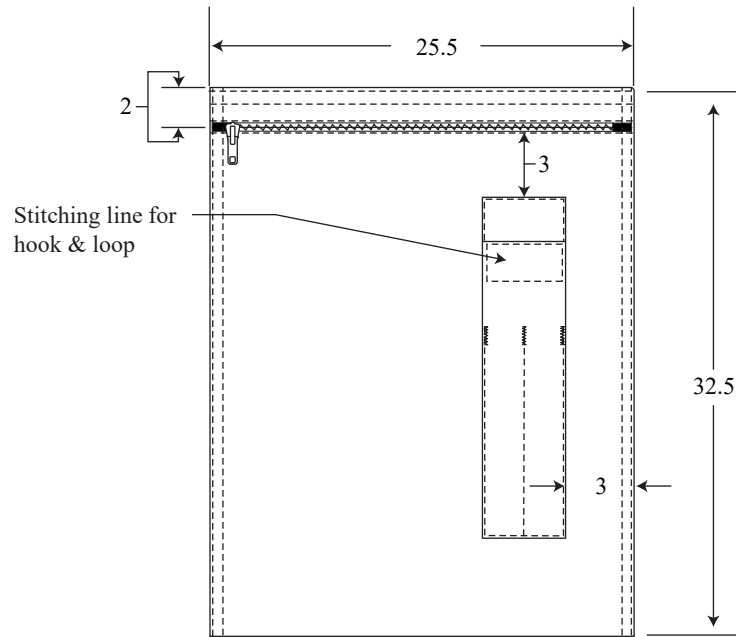
All measurements are shown in centimeters.

± 0.5 cm tolerance acceptable unless otherwise indicated.

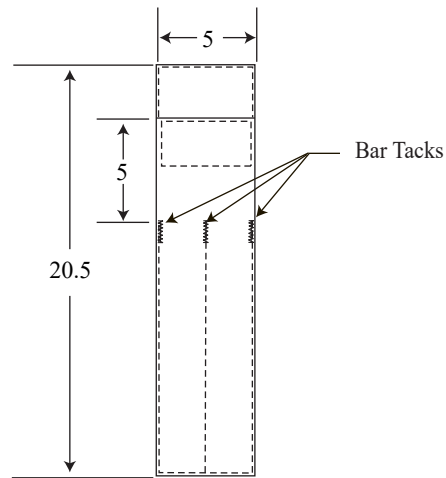
Drawing 4

G.S. 1045-389

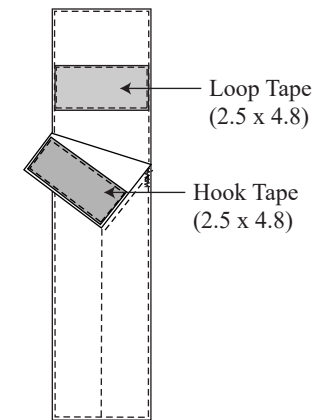
Trousers, FR, Special Duty, Air Services
Lower Leg Cargo Pocket Detail



Right Lower Cargo Pocket Detail



Pen Pocket Detail



Pen Pocket - Open

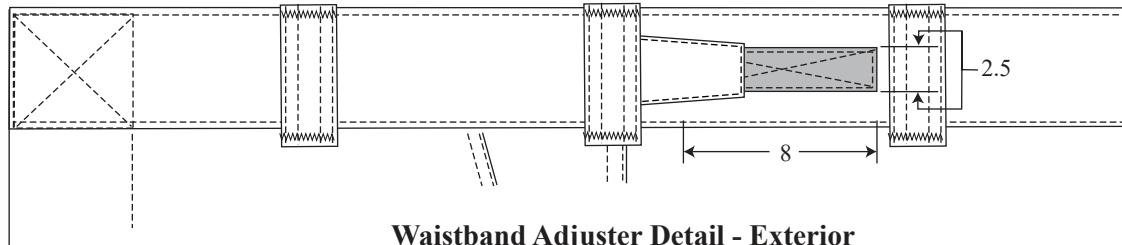
NOT TO SCALE

All measurements are shown in centimeters.

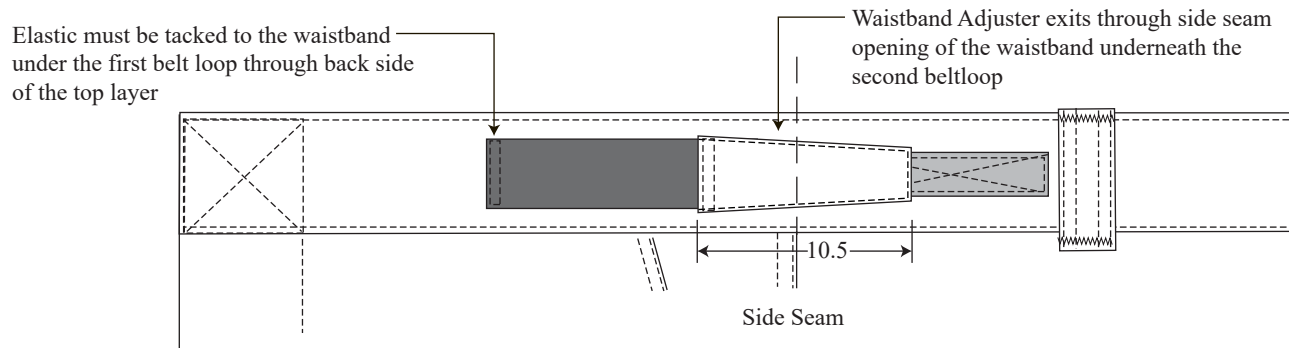
± 0.5 cm tolerance acceptable unless otherwise indicated.

Drawing 5

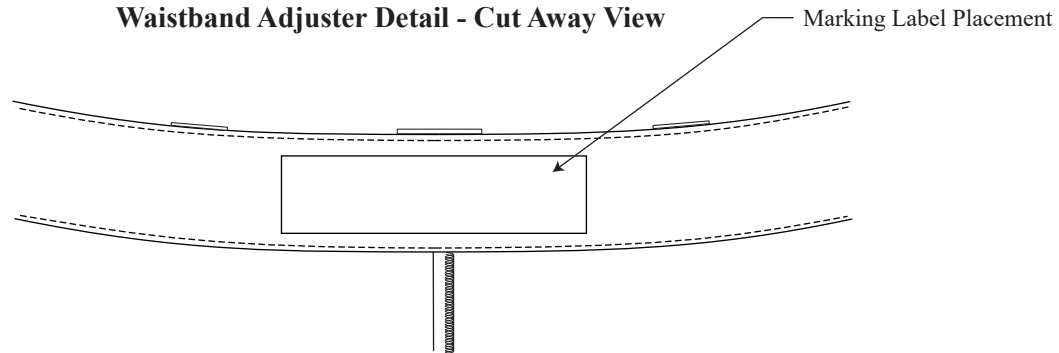
Trousers, FR, Special Duty, Air Services
Waistband & Fly Detail



Waistband Adjuster Detail - Exterior



Waistband Adjuster Detail - Cut Away View



Back Waistband Facing with Marking Label

NOT TO SCALE

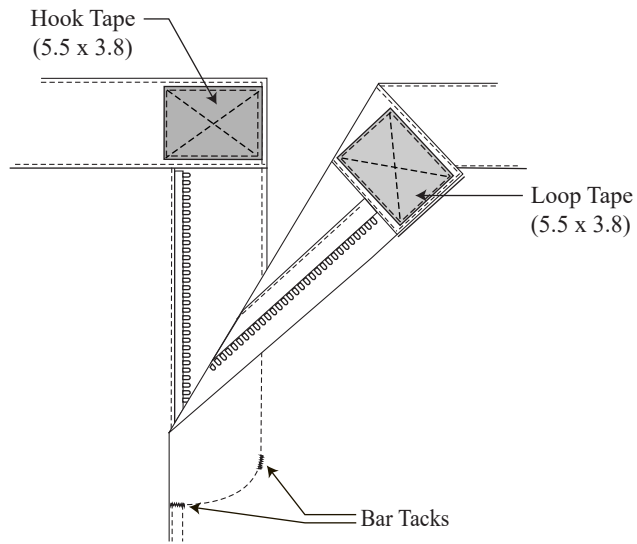
All measurements are shown in centimeters.

± 0.5 cm tolerance acceptable unless otherwise indicated.

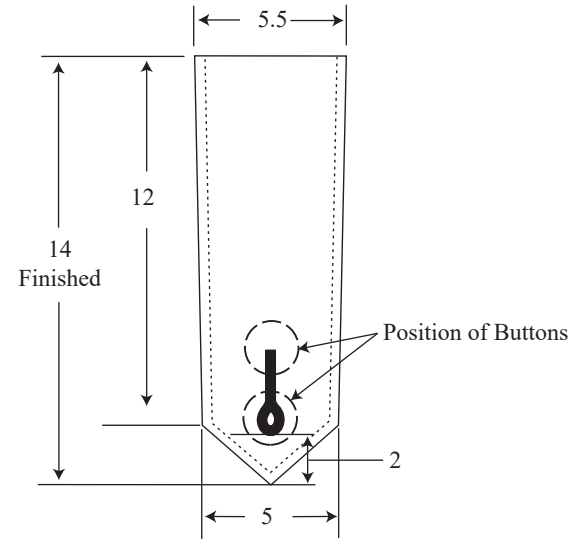
Drawing 6

G.S. 1045-389

Trousers, FR, Special Duty, Air Services



Fly Detail



Special Belt Loop

NOT TO SCALE

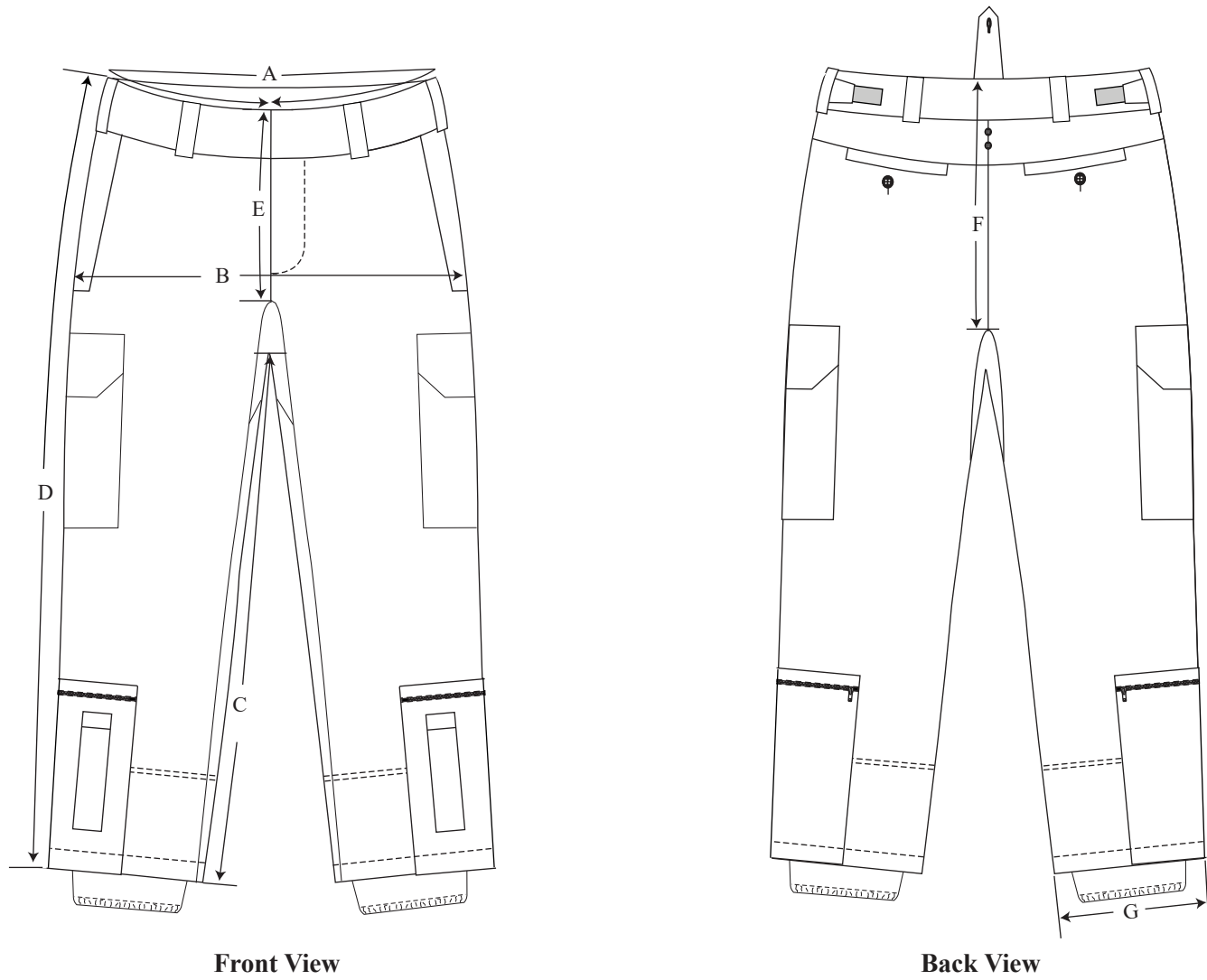
All measurements are shown in centimeters.

± 0.5 cm tolerance acceptable unless otherwise indicated.

Drawing 7

G.S. 1045-389

Trousers, FR, Special Duty, Air Services
Measurement Location Chart



NOT TO SCALE