



Royal Canadian Mounted Police
Gendarmerie royale du Canada

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Specification

Trousers, Washable, Cargo Pocket Male & Female

This document has 27 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 shall govern.

It may be obtained from:

Royal Canadian Mounted Police
Uniform & Equipment Program
(440 Coventry Road, Warehouse Building)
1200 Vanier Parkway
Ottawa, Ontario
K1A 0R2

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

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

SPECIFICATION

TROUSERS, WASHABLE, CARGO POCKET, MALE & FEMALE

1. Definitions

- 1.1 This specification shall govern the manufacture and inspection of the Trousers, Washable, Cargo Pocket Male & Female. The specific items covered under this specification with stock numbers is as follows:
- i. 6958 – Trousers, Washable, Cargo Pocket, Male / Pantalon cargo lavable à poches pour hommes;
 - ii. 6959-000 – Trousers, Washable, Cargo Pocket, Male, Special / Pantalon lavable pour hommes, taille spéciale;
 - iii. 6960 – Trousers, Washable, Cargo Pocket, Female / Pantalon cargo lavable à poches pour femmes;
 - iv. 6961-000 – Trousers, Washable, Cargo Pocket, Female, Special / Pantalon cargo lavable à poches pour femmes, 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, Washable, Cargo Pocket Male & Female.
- 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 RCMP, G.S.1045-284, Cloth, Twill, Poly/Cotton.
- 2.3 RCMP, G.S.1045-83, Cloth, Tape, Polyester.

- 2.4 CAN/CGSB 4.2, Textile Test Methods; 5.1-M90 (2013), 6-2013, 9.2-M90 (R2013), 15-2003, 18.3-97 (R2010), 19.1-2004 (2013), 22-2004, 23-M90 (R2013), 45-M88 (2013), 51.2-M87 and 58-2004.
- 2.5 CAN/CGSB-4.131-93, Thread, Polyester, Polyester-Covered.
- 2.6 ISO, International Standards Organization; ISO 4915, “Stitch Types” and ISO 4916:1991, “Seam Types”.
- 2.7 ASTM, American Society for Testing and Materials, Method D5169-98 (2015) and D5170-98 (2015).
- 2.8 CAN/CGSB 86.1-2003, Care Labeling of Textiles.

3. **General Requirements**

- 3.1 The article or material covered by this specification shall 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 shall be equivalent in all respects to the pattern and viewing sample.
- 3.2 **Design** - This washable trouser, designed with a yellow stripe, shall have “cut-out” quarter slash front hip pockets with deep pocket bags, side cargo pockets with flaps, back hip pockets and a fly front with slide fastener. The trousers shall be constructed from material purchased from the RCMP where specified and shall conform to the pattern, attached drawings, and viewing sample which are part of this specification.

4. **Detail Requirements**

4.1 **Components**

- 4.1.1 **Shell Material** – The shell material is RCMP stock item number 9150-000, Cloth, Twill, Poly/Cotton, navy in colour and shall be purchased from the RCMP.
- 4.1.2 **Stripes** – The stripes are RCMP stock item number 8551-100, polyester tape, yellow in colour and shall be purchased from the RCMP.

- 4.1.3 **Pocket, Waistband, Fly & Crotch Lining** - The lining shall be 65% Polyester/ 35% ± 3% Cotton, black in colour or to match the shell material, and shall meet the requirements outlined in Table I forming part of this specification.
- 4.1.4 **Seaming, Stitching, Buttonhole and Bar-Tack Thread** - Shall be polyester wrap, polyester core, Tex 40, Class B of matching colour, meeting CAN/CGSB 4.131-93.
- 4.1.5 **Buttons** - The buttons shall be four hole, 15 mm, plastic composition buttons of matching shade.
- 4.1.6 **Slide Fasteners** - Shall be a closed ended, brass slide fastener with Y type teeth and a 4.5 mm chain width. The slide fastener shall come complete with one bottom stop and a minimum of one top stop. There shall be a semi-locking slider with stainless steel locking pin, and brass pull tab. The tape shall be comprised of a polyester yarn and shall be black in colour. YKK YGC-459½ is known to meet this requirement.

Rise - Male & Female	Slide Fastener Length (inches)
X-Short & Short	6½"
Regular	7"
Tall & X-Tall	7½"

- 4.1.7 **Waistbanding** - Shall be constructed using waistband lining as specified in Para. 4.1.3 and shall have a finished width of 5.7 cm (2¼"). The waistbanding shall be constructed with the following components, a rubber inner grip, non-woven interlining and a no roll reinforcement shall meet the requirements below
 - 4.1.7.1 **Rubber Inner Grip** - Narrow mono, 19 mm overall width, with a 8 mm rubber at the center. It shall be constructed using a leno weave with a warp of 59% polyester/41% rubber and a weft of 100% polyester. The thickness shall be 0.5 mm ± .05 mm. The inner grip shall meet a colorfastness of grey scale 4 (min.) and be dry cleanable and washable up to 60°C with a maximum shrinkage of 2%.
 - 4.1.7.2 **Non-Woven Interlining** - The non-woven interlining shall be 90% polyester 10% cellulose wet laid construction treated with a chemical binder. It shall have a base

weight of $102 \text{ g/m}^2 \pm 8 \text{ g/m}^2$ and a tensile strength of MD (machine direction) 1500 grams and CD (cross direction) 8000 grams with a thickness of $525 \text{ } \mu\text{m} \pm 5\%$ (microns). It shall be washable and dry cleanable with a maximum shrinkage of 2%.

- 4.1.7.3 **No Roll Reinforcement** - Ultra ban roll, ultra-white acrylic finish, 2.5 cm minimum width sewn around the entire waistband, with a thickness of 0.048 cm (0.019"). It shall be comprised of a yarn size of 20.5 spun polyester warp and a 750 denier polyester monofilament weft and a weight of $200 \text{ g/m}^2 \pm 8 \text{ g/m}^2$. The ban roll shall be washable and dry cleanable with a 3% maximum shrinkage.
- 4.1.8 **Hook & Eye** - Shall be made of steel components, nickel plated on the outside and zinc plated on the inside with a glossy finish. YKK Elite brand part number HE10, HE50, HH10, HH50.
- 4.1.9 **Hook and Loop Tape** – The hook and loop tape shall be nylon, 16 mm (5/8") wide, black in colour, with a high life cycle. The combined hook and loop shall 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 (2015), standard test method for shear strength [dynamic method] of hook and loop touch fasteners and ASTM D5170-98 (2015), standard test method for peel strength ["T" method] of hook and loop touch fasteners.
- 4.2 **Size and Dimensions** – Trouser, Washable, Cargo Pocket Male & Female to this specification shall 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 shall 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 shall be cut from the same piece of material and shall be cut following the grain line on the pattern piece to ensure uniformity of shade.
- 4.3.2 **Stitching & Seams** - Using the specified thread, there shall be not less than 3 and no more than 4 stitches per cm. All stitching shall be lock or lock chain stitch. The beginning and ending of all stitching shall be securely backstitched and tacked unless secured by other stitching. Where seaming, turning and stitching is required

the edges shall be properly worked out before stitching. Side seams and inseams shall be constructed in accordance with a plain seam type #1.01.01 and serging type #6.01.01(edge finishing) of ISO 4916:1991.

- 4.3.3 **Inseam & Outseam** - The back leg inseam shall have a 3.5 cm wide seam allowance, continuing a minimum length of 35 cm for females and 40 cm for males as per the patterns and shall continue towards the hem with a 1 cm seam allowance. Both side seam and inseam allowances shall be serged and pressed open.
- 4.3.4 **Hem** - The bottom of the leg shall be serged and left unfinished. The completed leg shall conform in all respects to the patterns, drawings and viewing sample.
- 4.3.5 **Stripes** - The yellow stripes, specified in Para. 4.1.2, shall be centred over the side seam extending from the hem throughout the full length of the leg into the bottom of the waistband and stitched using a 1.5 mm gauge. The stripe when applied to the trouser leg shall be free of puckering and twisting. The stripe shall be centred and sewn on the bellow pocket and flap using a 1.5 mm gauge. The application of the yellow stripe shall conform in all respects to the viewing sample.
- 4.3.6 **Waistband** - The face of the waistband when finished shall be no less than 4 cm wide with the inside finishing width of no less than 6 cm. The waistbanding constructed from materials as specified in Para. 4.1.7 shall be applied to the waistband and shall roll inwards 3 mm below the top edge. The waistband shall be equipped with a total of six belt loops on waist sizes up to 36 and 8 belt loops on waist sizes 38 or larger, positioned as per the belt loop location chart in the scale of measurements. The belt loops shall be 1 cm wide with a functional opening of no less than 5 cm. They shall be securely bar tacked through the shell material and waistband lining, with no less than 18 cover stitches per tack. All sizes shall also include one special belt loop, constructed as per pattern from material as specified in para. 4.1.1, positioned at the center back seat seam as shown in the drawings and viewing sample. Two buttons as specified in Para. 4.1.5 shall be sewn to the seat seam at 6.5 cm and 9 cm from the top of the waistband for the attachment of the special belt loop. The special belt loop shall be stitched across the top of the waistband and securely bar tacked at both extremities with 10 mm to 13 mm long bar tacks, with no less than 18 cover stitches. The top front of the waistband above the fly shall be equipped with a metal hook and clasp. The waistband when completed, shall conform in all respects to the patterns, drawings and viewing sample.

- 4.3.7 **Pockets & Flaps** - The trouser pockets and flaps shall be shaped and dimensioned as per the patterns and drawings.
- 4.3.7.1 **Front Slash Pockets** - There shall be two front slash pockets constructed from shell material as specified in Para. 4.1.1. They shall be bar tacked at each end of the openings with no less than 18 cover stitches per tack. The front slash pocket openings shall 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 with the top of the openings sewn down 6 cm as shown in drawing #1. Both front and back pockets shall be lined with material as specified in Para. 4.1.3.
- 4.3.7.2 **Back Hip Pockets** - The back pockets shall have a 14.5 cm opening for all male sizes and 13.5 cm opening for all female sizes. Both rear pockets shall be equipped with a button as specified in Para. 4.1.5 and a suitably sized buttonhole. They shall be bar tacked at each end of the openings with no less than 18 cover stitches per tack.
- 4.3.7.3 **Flaps** - The pocket flaps shall be constructed from shell material as specified in Para. 4.1.1. The pocket flap shall be topstitched with a 6 mm (1/4") gauge. The loop tape, as specified in Para. 4.1.9, shall be sewn to the inside ply of the pocket flap and the corresponding hook tape shall be sewn to the bellow pocket as per pattern template. The stripe shall be centered and sewn to the top ply of the pocket flap. When applied to the trouser, the stripe on the flap shall line up with the stripe on the trouser as well as the bellow pocket. The flap shall have a bar tack at each end to secure the opening with no less than 18 cover stitches per tack. The completed flaps shall conform in all respects to the pattern, drawings and viewing sample
- 4.3.7.4 **Bellow Pockets** - The thigh bellow pockets shall be constructed from shell material as specified in Para. 4.1.1 and shall be shaped, dimensioned and positioned as per pattern. The stripe, as specified in Para. 4.1.2, shall be centred and sewn vertically on the pocket and shall line up with the stripe on the trousers and flap. The loop tape as specified in Para. 4.1.9 shall be sewn to the flaps and the hook tape as specified in Para. 4.1.9 shall be sewn to the pockets as per the pattern templates and drawings. The pockets shall be bar tacked as shown in the drawings with no less than 18 cover stitches per tack. All raw edges of the pockets shall be serged. The pockets shall be applied so the bellow is facing towards the back of the trouser in accordance with the drawings. The side of the pocket facing the front of the trouser and the bottom of the pocket shall be stitched down.

- 4.3.8 **Fly Opening** - The fly front, lined with material specified in Para. 4.1.3, shall be equipped with a slide fastener in accordance with Para. 4.1.6. The fly front shall be supported by a button sewn to the underside of the top left portion of the opening. A corresponding buttonhole shall be applied to the curtain. Care shall be taken to ensure that no shell material is caught during this operation. The bottom of the fly opening shall be reinforced with a 10 mm to 13 mm long bar tack, with no less than 18 cover stitches. The completed fly opening, shall conform in all respects to the patterns, drawings and viewing sample.
- 4.3.9 **Buttonholes** - Buttonholes shall 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 shall fit a button as specified in 4.1.5. When “cut after” buttonholes are used, the cut shall be clean, close to the stitches so they are equal in appearance to the “cut first” buttonholes.
- 4.3.10 **Crotch Lining** - The forepart of the crotch shall be lined with a triangular piece of lining as specified in Para. 4.1.3, shaped and dimensioned in accordance with the patterns and viewing sample.
- 4.3.11 **Crotch and Seat Seam** - The crotch and seat seam shall be joined together by stitching the seat seam continuously from the crotch through the waistband using 401 lock chain stitch. It shall be finished so that alterations of the waistband can be performed without opening the waistband. The seam allowance shall be 1 cm at the crotch, widening gradually to 4.5 cm below the bottom of the waistband and continuing through the waistband with a completed width of 4 cm each side after seaming and turning. All seams shall be serged. The seat when finished shall conform in all respects to the patterns, drawings and viewing sample.
- 4.3.12 **Permanent Creases** - The front of both trouser legs shall have permanent creases beginning even with the crotch and continuing to bottom of hem, with the inseam and out seam evenly lined up. After application of the permanent crease, rest time shall be given to ensure proper curing. Lintrak® is known to meet this requirement.
- 4.3.13 **Pressing and Shaping** - The trousers shall be pressed and shaped in accordance with good commercial practice to conform with the shaping and style of the viewing sample.
- 4.3.14 **Marking & Cleaning Instructions and Identification Labels** – Each trouser shall have two labels sewn separately to the right front pocket bag as identified in drawing # 4. The marking and cleaning label shall be no less than 7.5 cm x 6.5 cm.

The identification label shall be no less than 7.5 cm x 2 cm. The label information shall be as outlined below in a text no less than a size 8 font. The text shall be of permanent inks of a contrasting colour and shall withstand at least 50 washes showing no apparent change in appearance. The label shall be completed in accordance with the following information in English and French.

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. 6958 000)
4. Size and height group of the article, combining the size designation referenced in the English and French contract documents. (Ex. 34 T/L)
5. Date of manufacture, in numeric format year/month (Ex. 2001/11)
6. Your manufacturer identification (Company name or number).
7. Print information as shown below.

1		
2		
3		
4		
5		
6		
7	Machine wash - cool (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 adoucissant ou d'agent de blanchiment
	Tumble dry- low (Do Not use dryer sheets)	Séchage par culbutage – à température basse (Ne pas utiliser d'assouplissant en feuilles)
	Steam iron - medium	Repassage à vapeur - à température moyenne
	DO NOT DRY CLEAN.	NE PAS NETTOYER À SEC.

Identification label (Sewn on only): As illustrated below.

Name/Nom:

Note: The manufacturer's identification shall not appear anywhere on the garment except on the garment label as indicated.

5. **Quality Assurance Provisions**

- 5.1 **Responsibility for Inspection** - Unless otherwise stipulated in the contract, it is the prime contractor's responsibility to satisfy the RCMP, Uniform and Equipment Program that the material and services 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 any independent, North American, ISO 9001 certified and ISO 17025 "Textile" certified testing facilities. Certification will be required. Note: CTT Group Inc., Quebec, is known to meet this requirement.
- 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 shall 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 No. 5).

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

SCALE OF MEASUREMENTS - TROUSERS, WASHABLE, CARGO POCKET - MALE SIZES

SIZE DESIGNATION		GARMENT MEASUREMENTS							
Rise	Size (Inches)	Waist	Seat	Inseam	Out seam	<u>Bottom</u> of Waistband to hem	<u>Front Rise</u>	<u>Back Rise</u>	<u>Bottom</u>
<u>SHORT RISE</u>	30 S	77.5	101.5	87.75		110.75	26.5	34.5	50.5
	32 S	83	106	87.75		111.25	26.5	35	51
	34 S	88	110.5	87.75		111.75	26.75	35.5	52
	36 S	93	115	87.75		112.25	27	36	52.5
	38 S	98	119.5	87.75		112.5	27.25	36.5	53
	40 S	103	124	87.75		113	27.25	37	54
	42 S	108	128.5	88		113.5	27.5	37.5	54.5
	44 S	113.5	133	88		114	27.75	38	55
	46 S	118.5	137.5	88		114.5	28	38.5	55.5
	48S	123.5	142	88		115	28	39	56.5
	50S	128.5	146.5	88		115.5	28.25	39.5	57
	52S	133.5	151	88.25		116	28.5	40.25	57.5
<u>REGULAR RISE</u>	30 R	77.5	101.5	92.75		117.75	28.25	36.5	50.5
	32 R	83	106	92.75		118.25	28.5	37	51
	34 R	88	110.5	92.75		118.75	28.5	37.5	52
	36 R	93	115	92.75		119	28.75	38	52.5
	38 R	98	119.5	92.75		119.5	29	38.5	53
	40 R	103	124	92.75		120	29	39	54
	42 R	108	128.5	93		120.5	29.25	39.5	54.5
	44 R	113.5	133	93		121	29.5	40	55
	46 R	118.5	137.5	93		121.5	29.75	40.5	55.5
	48 R	123.5	142	93		122	30	41	56.5
	50 R	128.5	146.5	93		122.5	30	41.5	57
	52 R	133.5	151	93		123	30.5	42.25	57.5
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 measurements are in centimetres unless otherwise indicated. Shrinkage of the poly/cotton shell material has been factored into the inseam and out seam lengths.

SCALE OF MEASUREMENTS - TROUSERS, WASHABLE, CARGO POCKET - MALE SIZES “CONTINUED”

SIZE DESIGNATION		GARMENT MEASUREMENTS							
Rise	Size (Inches)	Waist	Seat	Inseam	Out seam	<u>Bottom</u> of Waistband to hem	<u>Front Rise</u>	<u>Back Rise</u>	<u>Bottom</u>
<u>TALL RISE</u>	30 T	77.5	101.5	97.75		124.75	30	38.5	50.5
	32 T	83	106	97.75		125.25	30	39	51
	34 T	88	110.5	97.75		125.75	30.25	39.5	52
	36 T	93	115	97.75		126	30.5	40	52.5
	38 T	98	119.5	97.75		126.5	30.75	40.5	53
	40 T	103	124	97.75		127	31	41	54
	42 T	108	128.5	97.75		127.5	31	41.5	54.5
	44 T	113.5	133	98		128	31.25	42	55
	46 T	118.5	137.5	98		128.5	31.5	42.5	55.5
	48 T	123.5	142	98		129	31.75	43	56.5
	50 T	128.5	146.5	98		129.25	32	43.5	57
52 T	133.5	151	98		129.75	33.25	44.25	57.5	
<u>X-TALL RISE</u>	30 XT	77.5	101.5	102.75		131.75	31.75	40.5	50.5
	32 XT	83	106	102.75		132.25	32	40.75	51
	34 XT	88	110.5	102.75		132.5	32	41.25	52
	36 XT	93	115	102.75		133	32.25	41.75	52.5
	38 XT	98	119.5	102.75		133.5	32.5	42.25	53
	40 XT	103	124	102.75		134	32.75	43	54
	42 XT	108	128.5	102.75		134.5	33	43.5	54.5
	44 XT	113.5	133	102.75		135	33	44	55
	46 XT	118.5	137.5	103		135.25	33.25	44.5	55.5
	48 XT	123.5	142	103		135.75	33.5	45	56.5
	50 XT	128.5	146.5	103		136.25	33.75	45.5	57
52 XT	133.5	151	103		136.75	34	46.25	57.5	
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 measurements are in centimetres unless otherwise indicated. Shrinkage of the poly/cotton shell material has been factored into the inseam and out seam lengths.

SCALE OF MEASUREMENTS - TROUSERS, WASHABLE, CARGO POCKET - FEMALE SIZES

SIZE DESIGNATION		GARMENT MEASUREMENTS							
Rise	Size (Inches)	Waist	Seat	Inseam	Out seam	<u>Bottom</u> of Waistband to hem	<u>Front Rise</u>	<u>Back Rise</u>	<u>Bottom</u>
<u>X-SHORT RISE</u>	24 XS (6)	62.5	87	78.75		100	22.5	29.5	48.5
	26 XS (8)	67.5	92	78.75		100.25	22.5	29.75	49
	28 XS (10)	72.5	97	78.75		100.75	22.75	30	49
	30 XS (12)	78	102	79		101	23	30.25	49
	32 XS (14)	83	107	79		101.25	23.25	30.5	49.5
	34 XS (16)	88	112	79.25		101.75	23.5	30.5	49.5
	36 XS (18)	93	117	79.25		102	23.75	30.75	50
	38 XS (20)	98	122	79.25		102.5	24	31	50
	40 XS (22)	103	127	79.5		102.75	24.25	31.25	50
	42 XS (24)	108.5	132.5	79.5		103	24.5	31.5	50.5
	44 XS (26)	113.5	137.5	79.75		103.5	24.75	31.75	50.5
	46 XS (28)	118.5	142.5	79.75		103.75	25	32	51
48 XS (30)	123.5	147	80		104.25	25.25	32.25	51	
<u>SHORT RISE</u>	24 S (6)	62.5	87	83.75		107	24.25	31.5	48.5
	26 S (8)	67.5	92	83.75		107.25	24.5	31.75	49
	28 S (10)	72.5	97	83.75		107.75	24.75	32	49
	30 S (12)	78	102	84		108	25	32.25	49
	32 S (14)	83	107	84		108.25	25.25	32.5	49.5
	34 S (16)	88	112	84		108.75	25.5	32.75	49.5
	36 S (18)	93	117	84.25		109	25.75	33	50
	38 S (20)	98	122	84.25		109.25	26	33	50
	40 S (22)	103	127	84.5		109.75	26.25	33.25	50
	42 S (24)	108.5	132.5	84.5		110	26.5	33.5	50.5
	44 S (26)	113.5	137.5	84.75		110.5	26.5	33.75	50.5
	46 S (28)	118.5	142.5	84.75		110.75	26.75	34	51
48 S (30)	123.5	147	85		111	27.25	34.25	51	
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 measurements are in centimetres unless otherwise indicated. Shrinkage of the poly/cotton shell material has been factored into the inseam and out seam lengths.

SCALE OF MEASUREMENTS - TROUSERS, WASHABLE, CARGO POCKET - FEMALE “CONTINUED”

SIZE DESIGNATION		GARMENT MEASUREMENTS							
Rise	Size (Inches)	Waist	Seat	Inseam	Out seam	<u>Bottom</u> of Waistband to hem	<u>Front Rise</u>	<u>Back Rise</u>	<u>Bottom</u>
<u>REGULAR RISE</u>	24 R (6)	62.5	87	88.75		114	26	33.5	48.5
	26 R (8)	67.5	92	88.75		114.25	26.25	33.75	49
	28 R (10)	72.5	97	88.75		114.75	26.5	34	49
	30 R (12)	78	102	89		115	26.75	34.25	49
	32 R (14)	83	107	89		115.25	27	34.5	49.5
	34 R (16)	88	112	89		115.75	27.25	34.75	49.5
	36 R (18)	93	117	89.25		116	27.5	35	50
	38 R (20)	98	122	89.25		116.25	27.5	35	50
	40 R (22)	103	127	89.25		116.75	28	35.25	50
	42 R (24)	108.5	132.5	89.5		117	28.25	35.5	50.5
	44 R (26)	113.5	137.5	89.5		117.25	28.5	35.75	50.5
	46 R (28)	118.5	142.5	89.75		117.75	28.75	36	51
	48 R (30)	123.5	147	89.75		118	29	36.25	51
<u>TALL RISE</u>	24 T (6)	62.5	87	93.75		121	28	35.5	48.5
	26 T (8)	67.5	92	93.75		121.25	28.25	35.75	49
	28 T (10)	72.5	97	93.75		121.75	28.5	36	49
	30 T (12)	78	102	93.75		122	28.75	36.25	49
	32 T (14)	83	107	94		122.25	29	36.5	49.5
	34 T (16)	88	112	94		122.75	29.25	36.75	49.5
	36 T (18)	93	117	94		123	29.5	37	50
	38 T (20)	98	122	94.25		123.25	29.75	37.25	50
	40 T (22)	103	127	94.25		123.75	30	37.25	50
	42 T (24)	108.5	132.5	94.5		124	30.25	37.5	50.5
	44 T (26)	113.5	137.5	94.5		124.25	30.5	37.75	50.5
	46 T (28)	118.5	142.5	94.5		124.75	30.75	38	51
	48 T (30)	123.5	147	94.75		125	31	38.25	51
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 measurements are in centimetres unless otherwise indicated. Shrinkage of the poly/cotton shell material has been factored into the inseam and out seam lengths.

SCALE OF MEASUREMENTS - TROUSERS, WASHABLE, CARGO POCKET

SIZE DESIGNATION	Belt Loop placement Measured to the centre of the Belt Loop			
	1st Belt Loop from centre front (cm)	2nd Belt Loop from centre front (cm)	3rd Belt Loop from centre front (cm)	4th Belt Loop from centre front (cm) (If necessary)
30	8.5	18.5	28.5	
32	10	20.5	31	
34	10	22.5	33	
36	10	22.1	34.2	
38	10	19.7	29.4	39.1
40	10	20.3	30.6	40.9
42	10	20.9	31.8	42.7
44	11	22.3	33.6	44.9
46	11	23	35	47
FEMALE Sizes				
26	8.5	17	25.5	
28	9	18.1	27.2	
30	8.5	18.5	28.5	
32	10	20.5	31	
34	10	22.5	33	
36	10	22.1	34.2	
38	10	19.7	29.4	39.1
40	10	20.3	30.6	40.9
42	10	20.9	31.8	42.7
TOLERANCES ±	.25cm	.25cm	.25cm	.25cm

TABLE I

		SPECIFICATION	TESTED BY CAN/CGSB-4.2
1	Weave	Plain	
2	Mass	150 to 170 g/m ²	Method 5.1-M90 (R2013)
3	Yarns per cm	Warp 39 (min.) Weft 21 (min.)	Method 6-2013
4	Breaking Strength	Warp 537 Newtons (min.) Weft 220 Newtons (min.)	Method 9.2-M90 (R2013)
5	Dimensional Change to Domestic Washing	Warp 2% (max.) Weft 2% (max.)	Method 58-2004
6	Colourfastness to Washing	Grey Scale 4 (min.)	Method 19.1-2004 (R2013) (Test 2)
7	Colourfastness to Light	L-4 (min.)	Method 18.3-97 (R2010)
8	Colourfastness to Perspiration	Grey scale 4 (min.)	Method 23-M90 (R2013)
9	Colourfastness to Crocking	Dry 4 (min.) Wet 4 (min.)	Method 22-2004
10	Pilling	3 (min.) after 90 min	Method 51.2-M87
11	Crease Recovery	70%	Method 45-M88 (2013)
12	Non-Fibrous Material	3.1% (max.)	Method 15-2003 (R2013)

Note: Doubletex “Calypso” and “Bounty Set US” is known to meet the requirements.

APPENDIX A

Sealed Pattern Identifier

Pattern #: 1045-353
 Titles: Trousers, Washable, Cargo Pocket, Male
 Trousers, Washable, Cargo Pocket, Female

Paper Patterns - Paper patterns are available from the RCMP, Uniform and Equipment Program, Ottawa Ontario, under Pattern # G.S. 1045-353. Firms requested to produce Pre-contract 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 paper patterns include seam allowances, drill holes and/or placement templates. Contractors may make changes required to suit their production process, however, the design and grade shall not be affected or changed. Shrinkage of the poly/cotton shell material has been factored into the inseam and outseam lengths in the scale of measurements.

All shell parts must be cut in the direction indicated on the grain line of the pattern pieces.

All patterns are the property of the RCMP and must be returned upon completion of the contract.

Pattern Pieces - This design has 18 pattern components.

<u>Legend:</u>		
Shell Material	=	Para. 4.1.1
Lining Material	=	Para. 4.1.3
Cut 1 Single	=	Cut 1
Cut 1 Paired	=	Cut 2
(RSU)	=	Right Side Up

APPENDIX A**Sealed Pattern Identifier**

Pattern #: G.S. 1045-353

Title: Trousers, Washable, Cargo Pocket, Male

Pattern Components	Nomenclature	Quantity to be cut	Material
1 of 18	Back	1 Paired	Shell Material
2 of 18	Front	1 Paired	Shell Material
3 of 18	Waistband - Right	1 Single	Shell Material(RSU)
4 of 18	Waistband - Left	1 Single	Shell Material(RSU)
5 of 18	Fly Front	1 Single	Shell Material(RSU)
6 of 18	Fly Curtain	1 Single	Shell Material(RSU)
7 of 18	Belt Loops	1 Single	Shell Material
8 of 18	Special Belt Loop	1 Paired	Shell Material
9 of 18	Pocket Bag – Front Facing	1 Paired	Shell Material
10 of 18	Pocket Jetting	2 Paired	Shell Material
11 of 18	Pocket Bag – Front	1 Paired	Lining Material
12 of 18	Fly Lining	1 Single	Lining Material(RSU)
13 of 18	Front Gusset	1 Paired	Lining Material
14 of 18	Pocket Bag - Back	1 Paired	Lining Material
15 of 18	Pocket – Front Facing	1 Paired	Shell Material
16 of 18	Pocket – Bellow	1 Paired	Shell Material
17 of 18	Pocket Flap – Bellow A	1 Paired	Shell Material
18 of 18	Pocket Flap – Bellow B	1 Paired	Shell Material

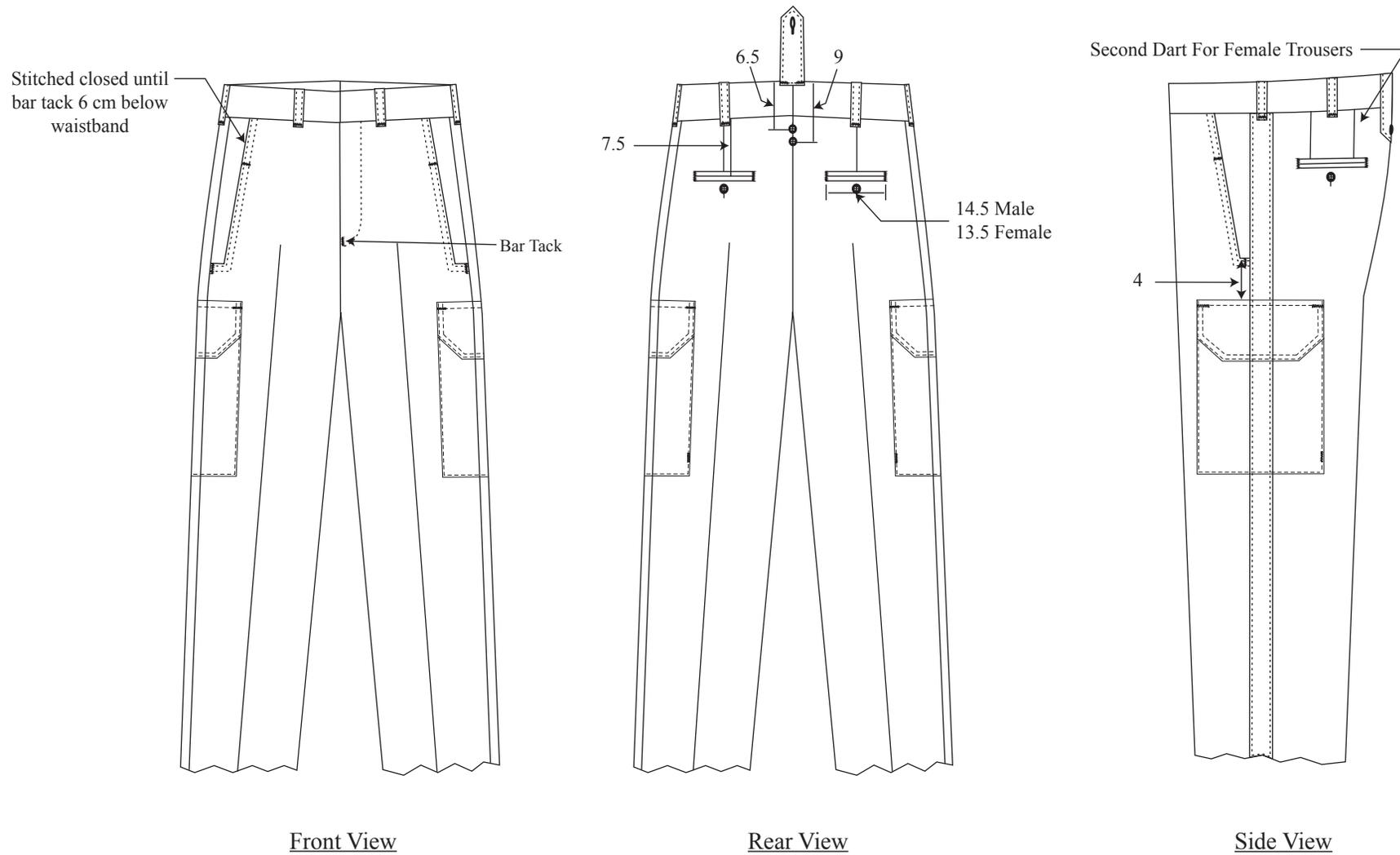
APPENDIX A**Sealed Pattern Identifier**

Pattern #: G.S. 1045-353

Title: Trousers, Washable, Cargo Pocket, Female

Pattern Components	Nomenclature	Quantity to be cut	Material
1 of 18	Back	1 Paired	Shell Material
2 of 18	Front	1 Paired	Shell Material
3 of 18	Waistband - Right	1 Single	Shell Material(RSU)
4 of 18	Waistband - Left	1 Single	Shell Material(RSU)
5 of 18	Fly Front	1 Single	Shell Material(RSU)
6 of 18	Fly Curtain	1 Single	Shell Material(RSU)
7 of 18	Belt Loops	1 Single	Shell Material
8 of 18	Special Belt Loop	1 Paired	Shell Material
9 of 18	Pocket Bag – Front Facing	1 Paired	Shell Material
10 of 18	Pocket Jetting	2 Paired	Shell Material
11 of 18	Pocket Bag – Front	1 Paired	Lining Material
12 of 18	Fly Lining	1 Single	Lining Material(RSU)
13 of 18	Front Gusset	1 Paired	Lining Material
14 of 18	Pocket Bag - Back	1 Paired	Lining Material
15 of 18	Pocket – Front Facing	1 Paired	Shell Material
16 of 18	Pocket – Bellow	1 Paired	Shell Material
17 of 18	Pocket Flap – Bellow A	1 Paired	Shell Material
18 of 18	Pocket Flap – Bellow B	1 Paired	Shell Material

Drawing # 1

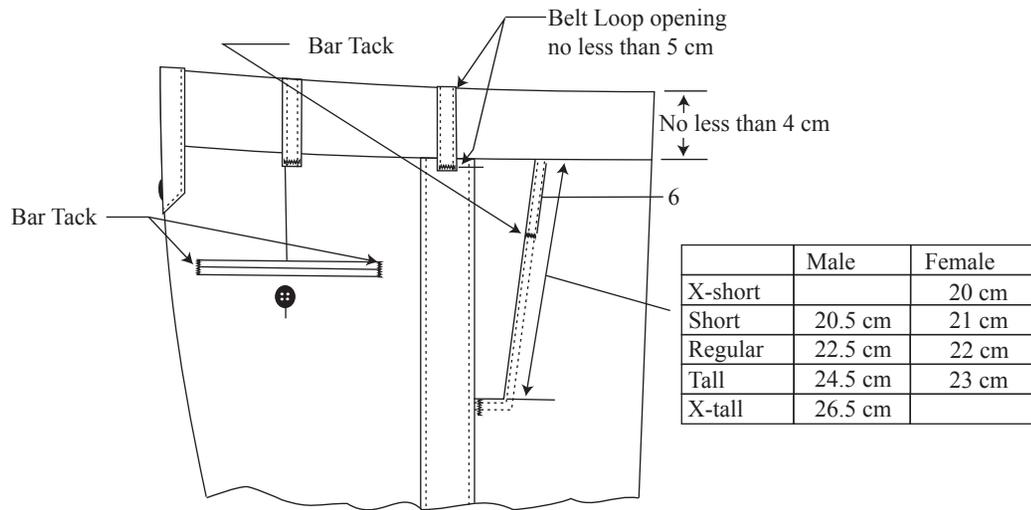


NOT TO SCALE

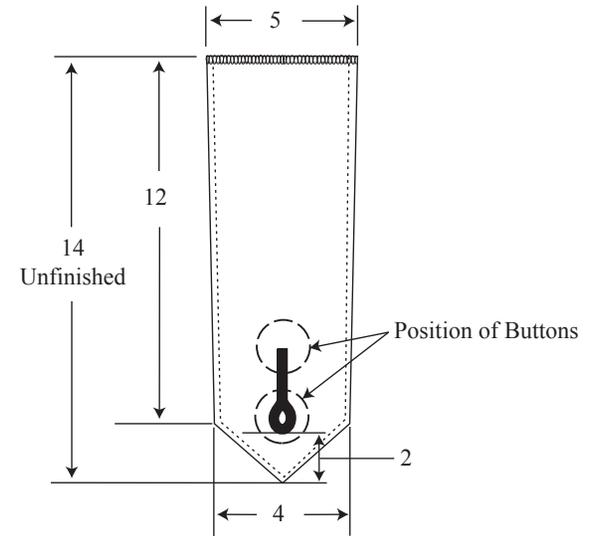
All measurements are shown in centimeters, unless otherwise indicated.

± 0.5 cm tolerance acceptable unless otherwise indicated.

Drawing # 2



Pocket Detail



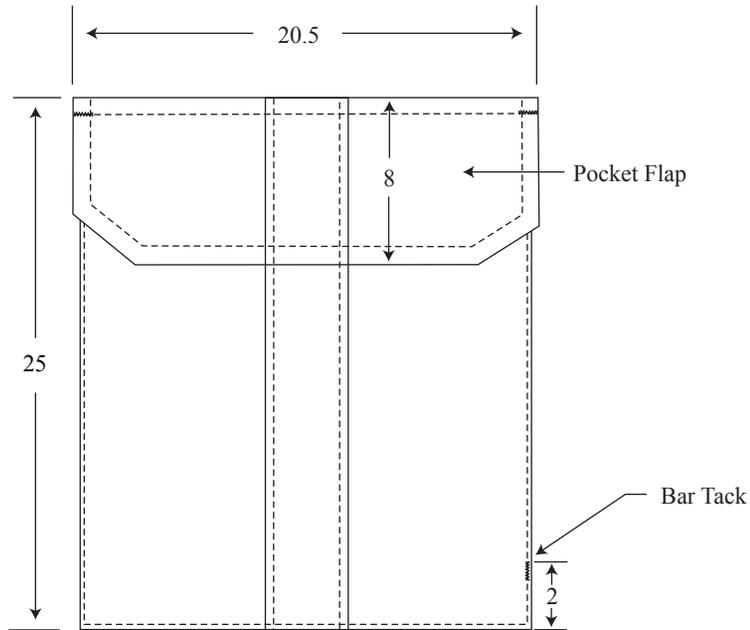
Special Belt Loop

NOT TO SCALE

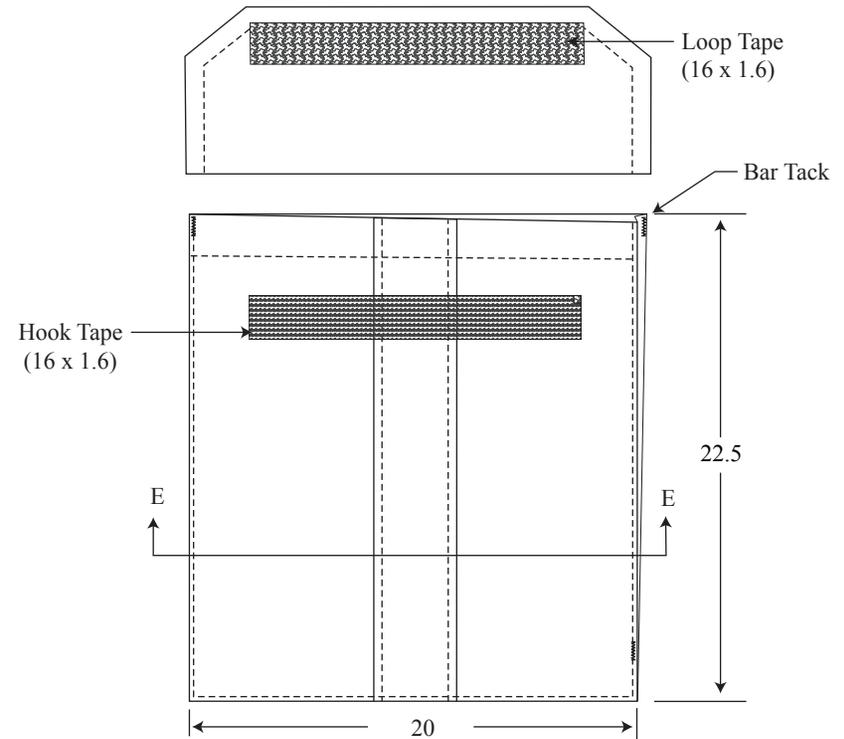
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± 0.5 cm tolerance acceptable unless otherwise indicated.

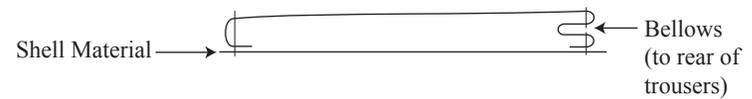
Drawing # 3



Left Bellow Pocket Detail



Left Bellow Pocket shown with flap open



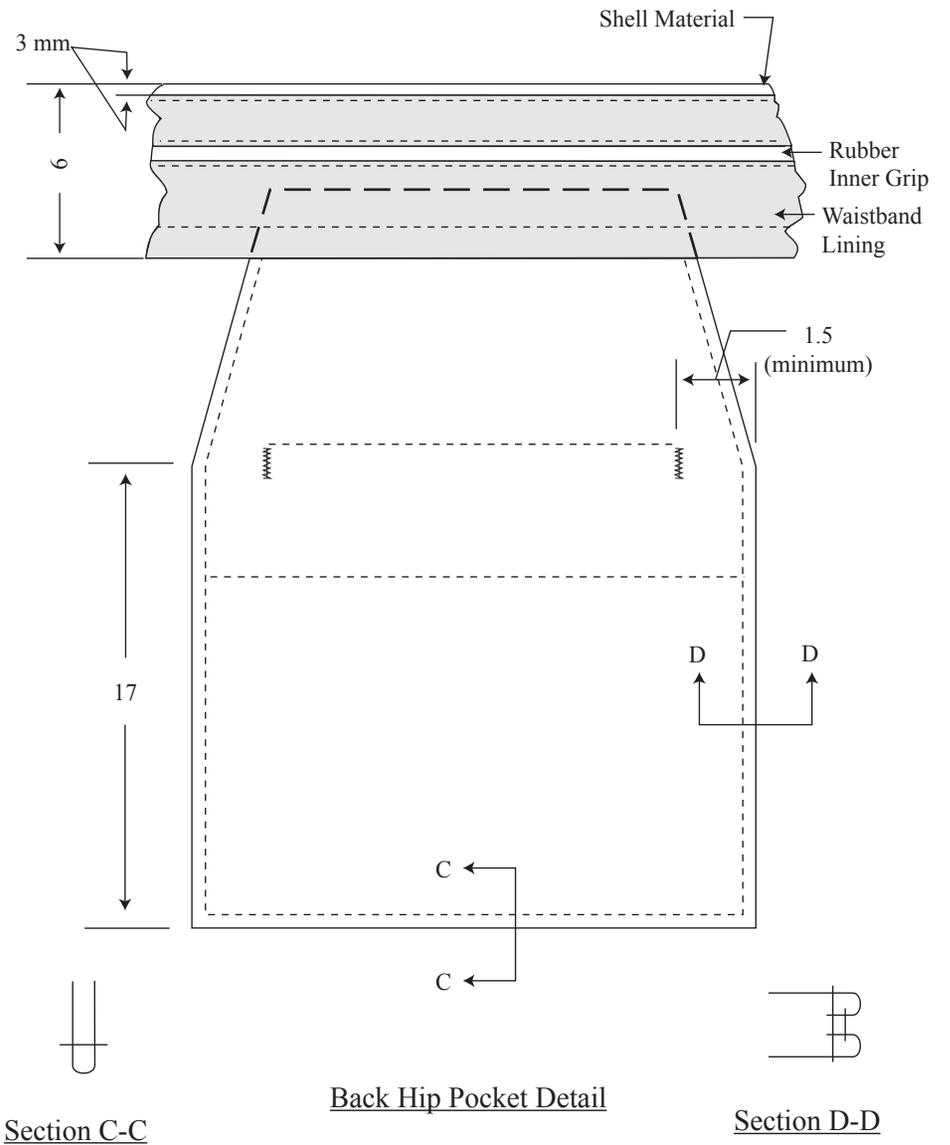
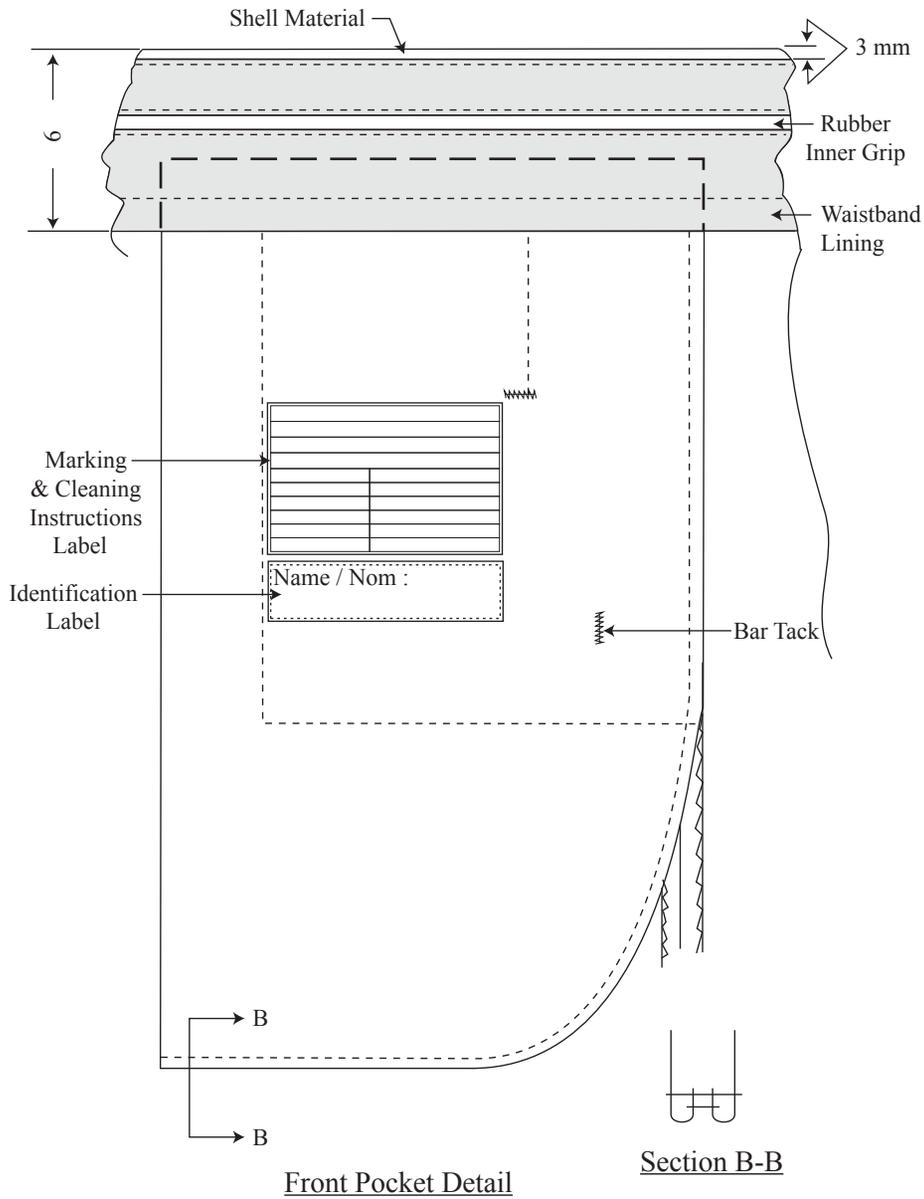
Section E-E
Left Bellow Pocket & Trouser leg

NOT TO SCALE

All measurements are shown in centimeters.

± 0.5 cm tolerance acceptable unless otherwise indicated.

Drawing # 4



NOT TO SCALE

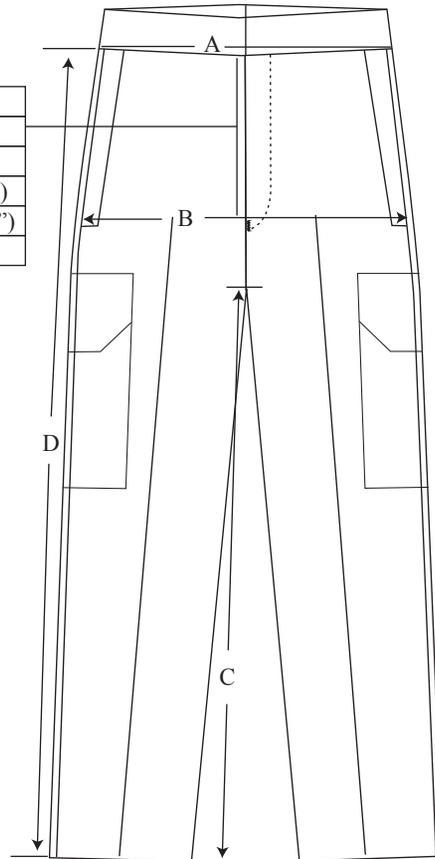
All measurements are shown in centimeters, unless otherwise indicated.
 ± 0.5 cm tolerance acceptable unless otherwise indicated.

Measurement Location

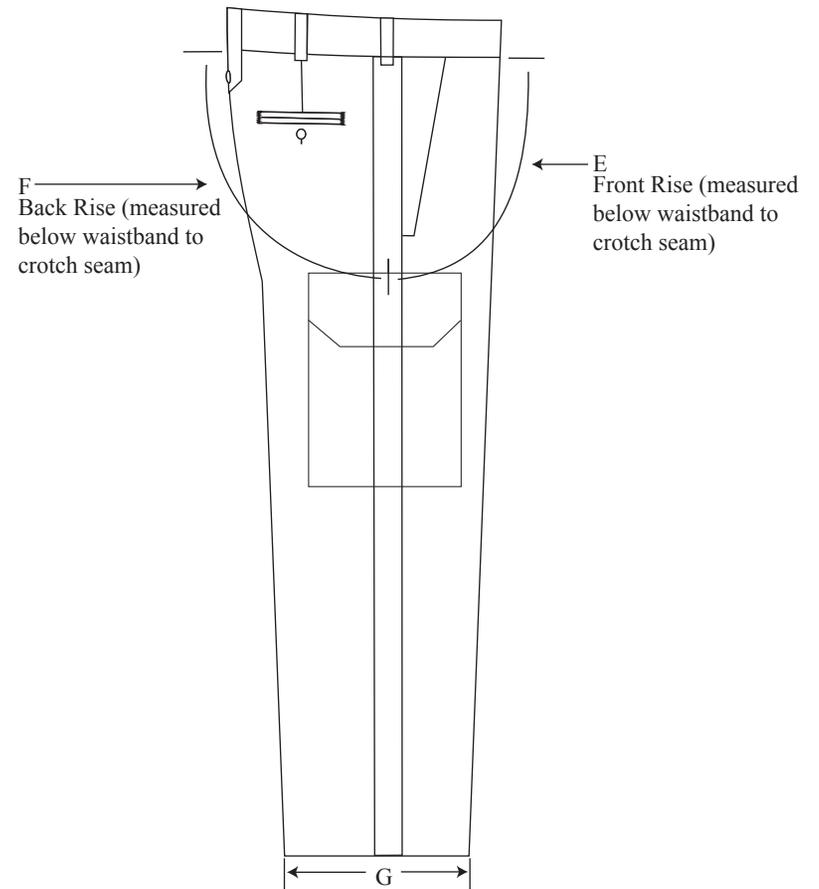
Drawing # 5

Distance from below the waistband to measure seat circumference

	Male	Female
X-Short		12.7 cm (5")
Short	17.2 cm (6 ³ / ₄ ")	14 cm (5 ¹ / ₂ ")
Regular	18.5 cm (7 ¹ / ₄ ")	15.25 cm (6")
Tall	19.5 cm (7 ³ / ₄ ")	16.5 cm (6 ¹ / ₂ ")
X-Tall	21 cm (8 ¹ / ₄ ")	



Front View



Side View

NOT TO SCALE

All measurements are shown in centimeters, unless otherwise indicated.

± 0.5 cm tolerance acceptable unless otherwise indicated.