

CLIENT: HAVOK SOLUTION

STYLE: HVK-HAP04

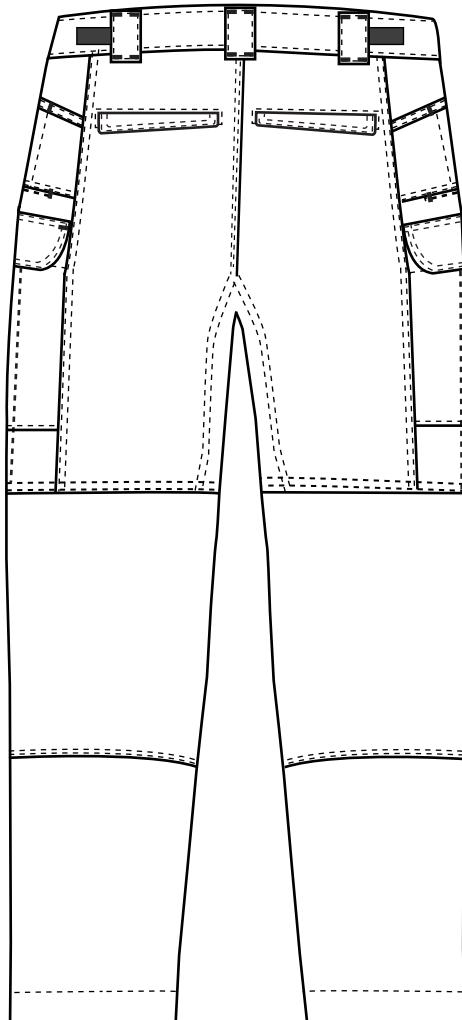
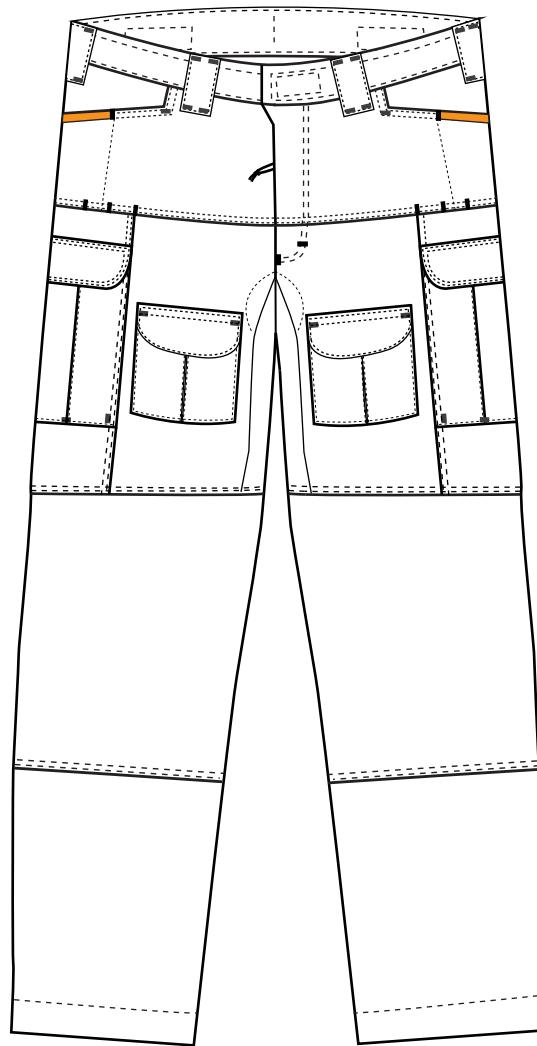
DESCRIPTION: HAVOK™ Klassic Defender Pant

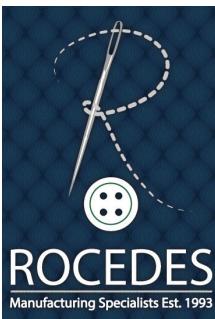
CREATION DATE: 06/20/2025

LAST DATE: 01/29/2026

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FRONT AND BACK GARMENT IMAGE





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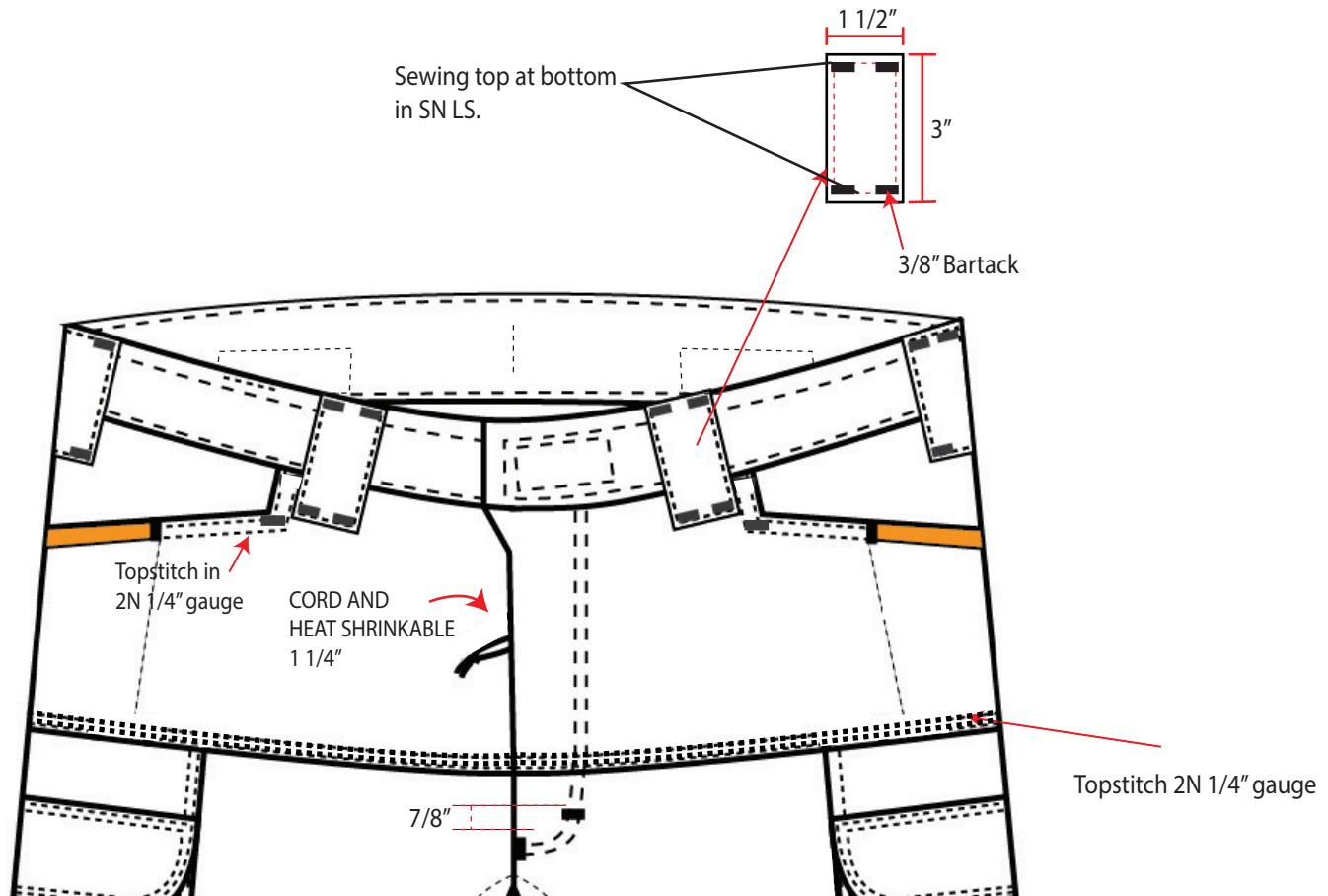
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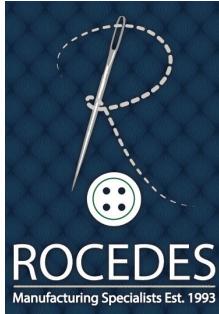
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FRONT





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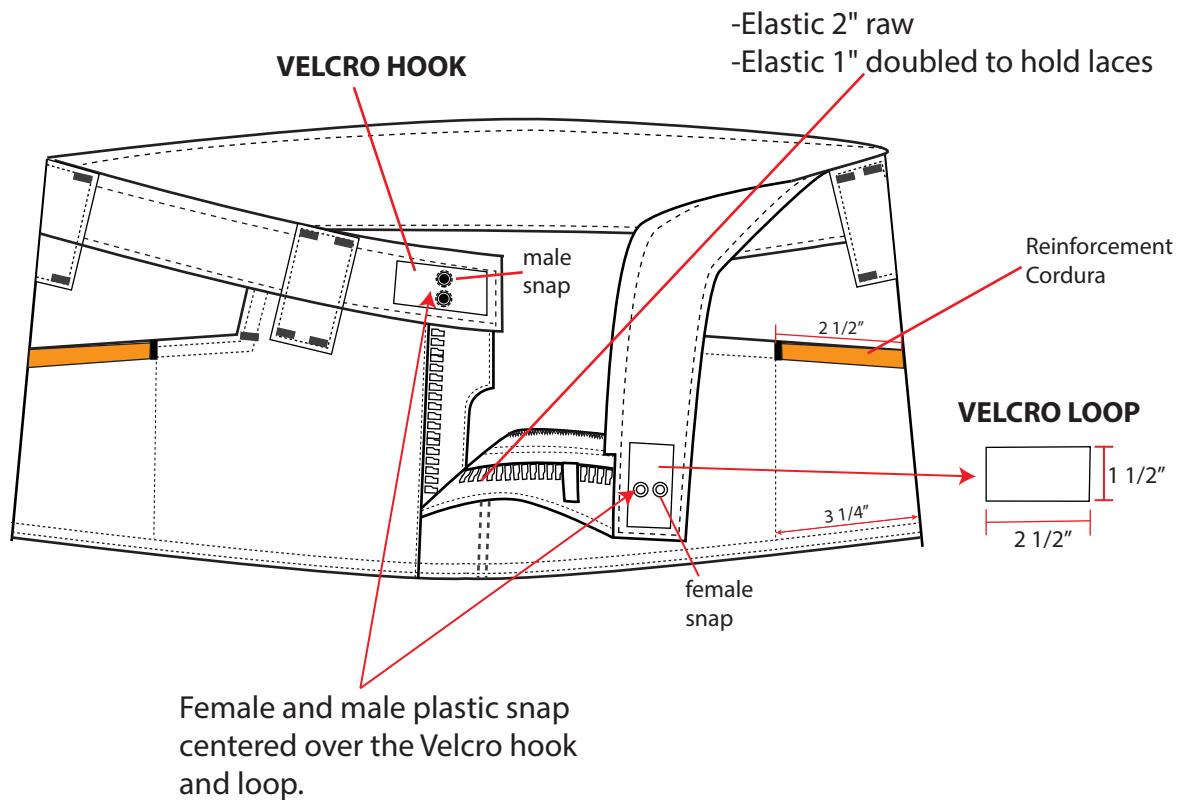
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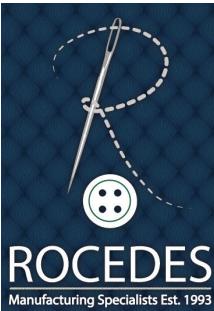
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VELCRO & SNAP



-velcro hook 1 1/2" x 2 1/2" sew around all sides.
-velcro loop 1 1/2" x 2 1/2" sew around all sides.
-Attach zipper to fly in 2N
-Topstitch right fly in SN LS 1/16"



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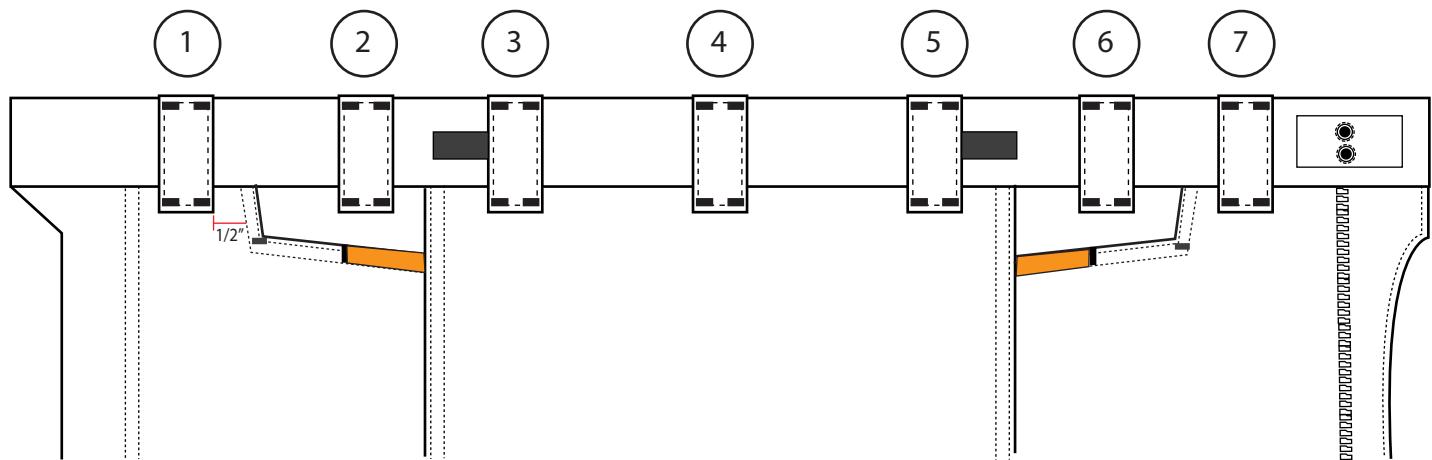
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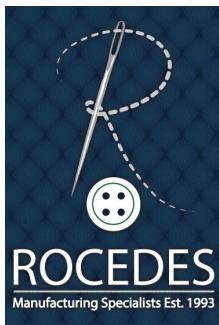
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BELTLOOPS POSITION



7 Beltloops

- Loops 1 & 7 1/2" approx from the pocket opening.
- Loops 2 and 6 centered on the front view of the pocket.
- Loops 3 & 5 1 1/2" approx from the sideseam.
- Loop 4 centered on the rear



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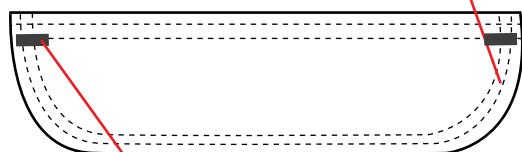
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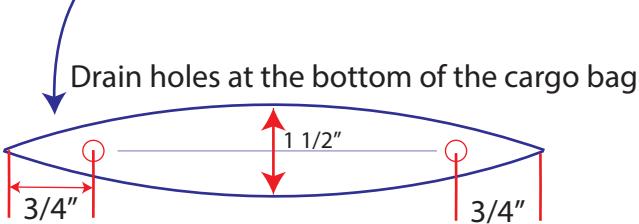
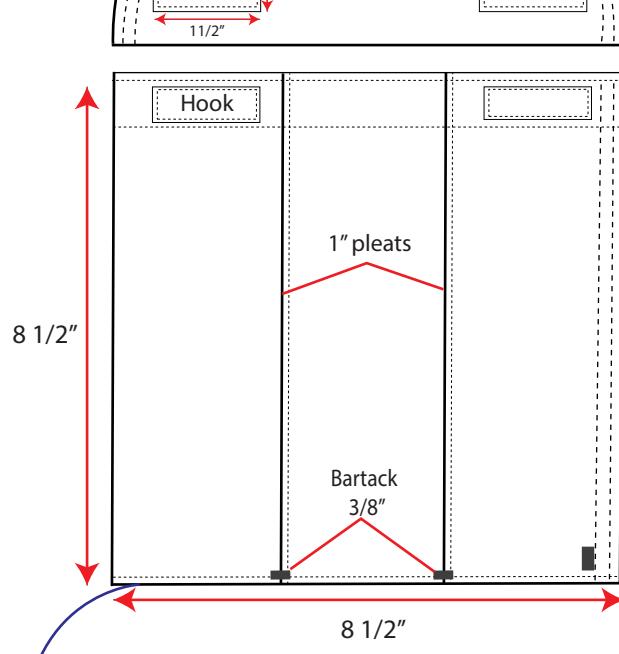
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CARGO POCKET & FLAP

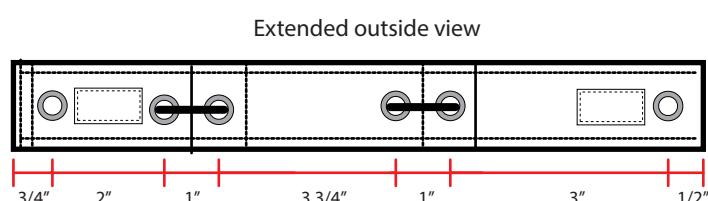
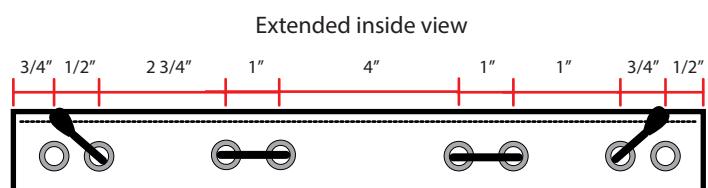
Topstitch flap in 2N 1/4" gauge.



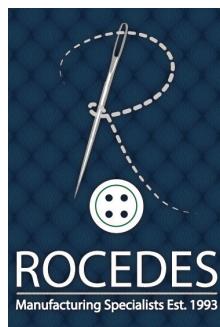
3/8" Bartack in both sides.



cord, cut to 7" (2 5/8" Finish).
heat shrinkable, cut to 1 1/2"



-10 eyelet located 2 on each pleat,
with a tensioning cable through
for adjustment



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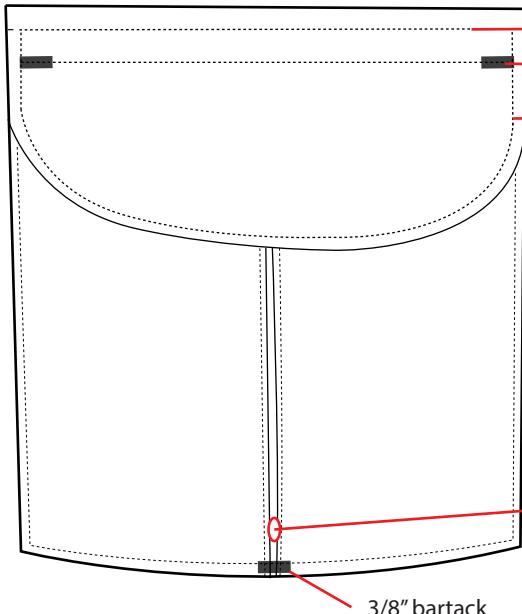
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THIGH POCKET



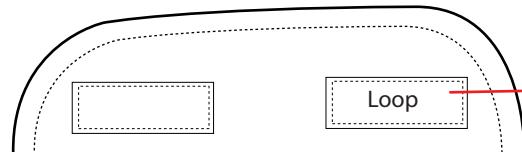
-Topstitch in 2N 1/4" of gauge.

-3/8" Bartack in both sides.

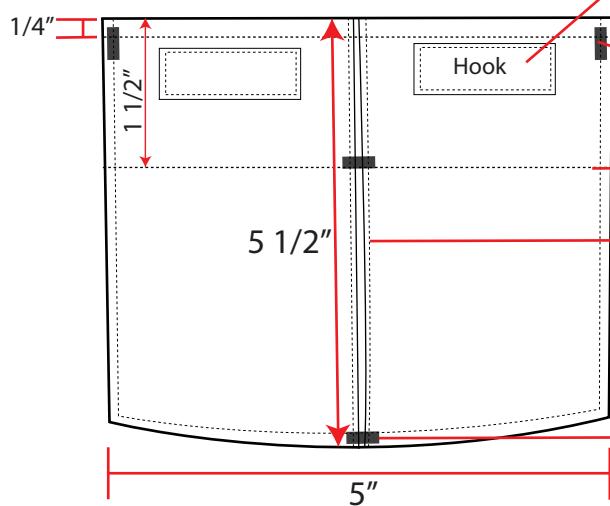
-Topstitch in SN LS 1/8" of margin.

-Flap located 1/2" from the edge of the thigh pocket, ant T/S around in SN LS 1/8" and 1/4" 2N in top of the flap.

-Bartack in both corners.



Velcro loop and hook sew around all sides SN LS 1/16"

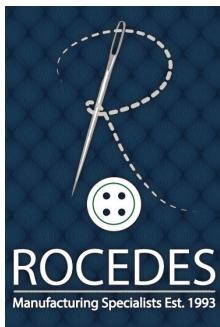


3/8" Bartack in both sides.

Topstitch in SN LS

1/2" inward pleats
both sides

Bartack 3/8"
top and bottom



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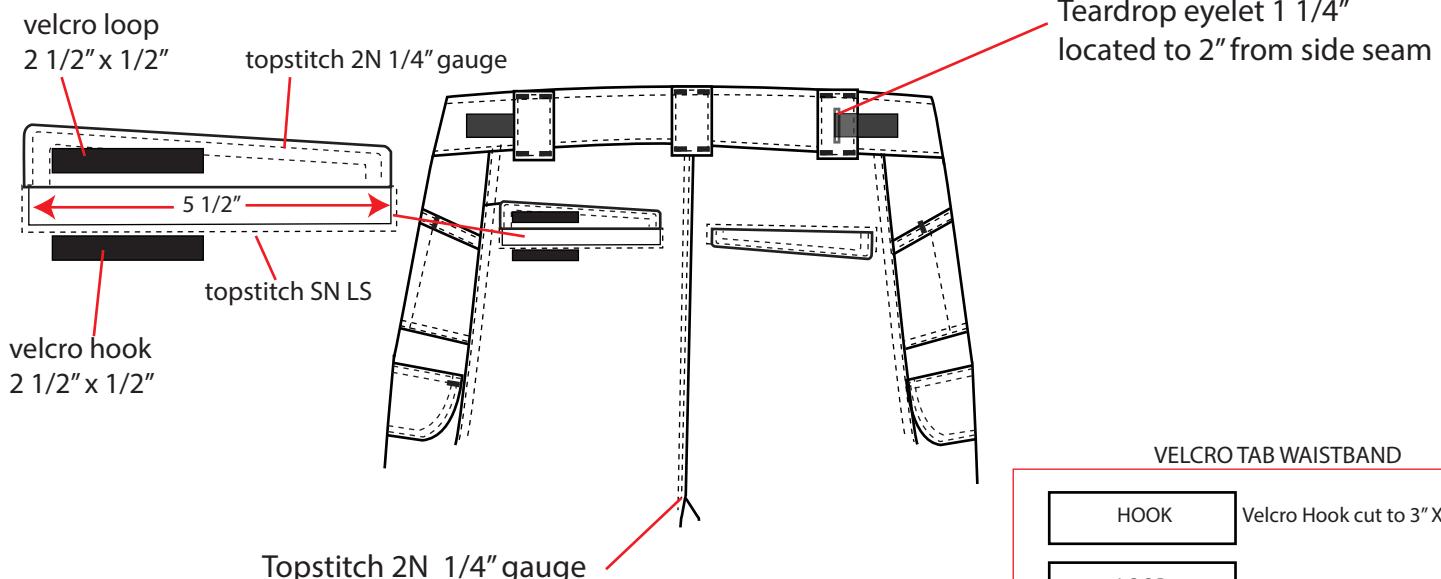
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BACK



VELCRO TAB WAISTBAND

HOOK

Velcro Hook cut to 3" X 1"

LOOP

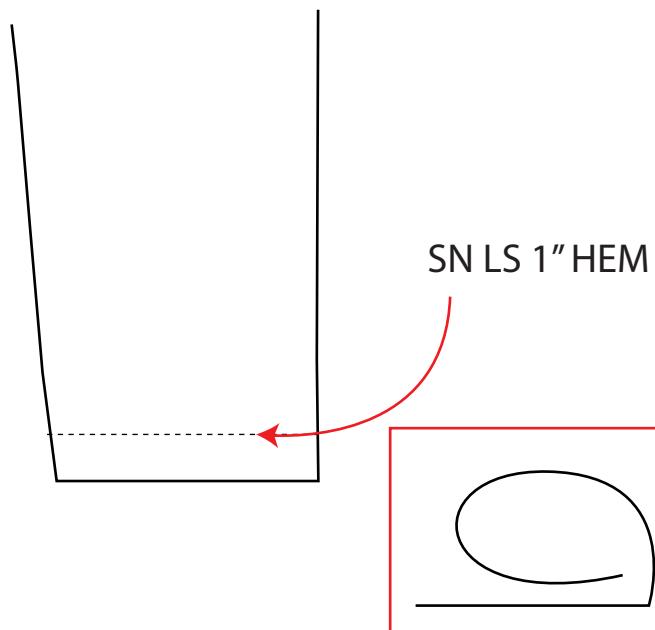
Velcro Loop cut to 3 1/2" X 1"

1"

HOOK

Velcro Hook located 1" from
puler end

BOTTOM HEM





ROCEDES
Manufacturing Specialists Est. 1993

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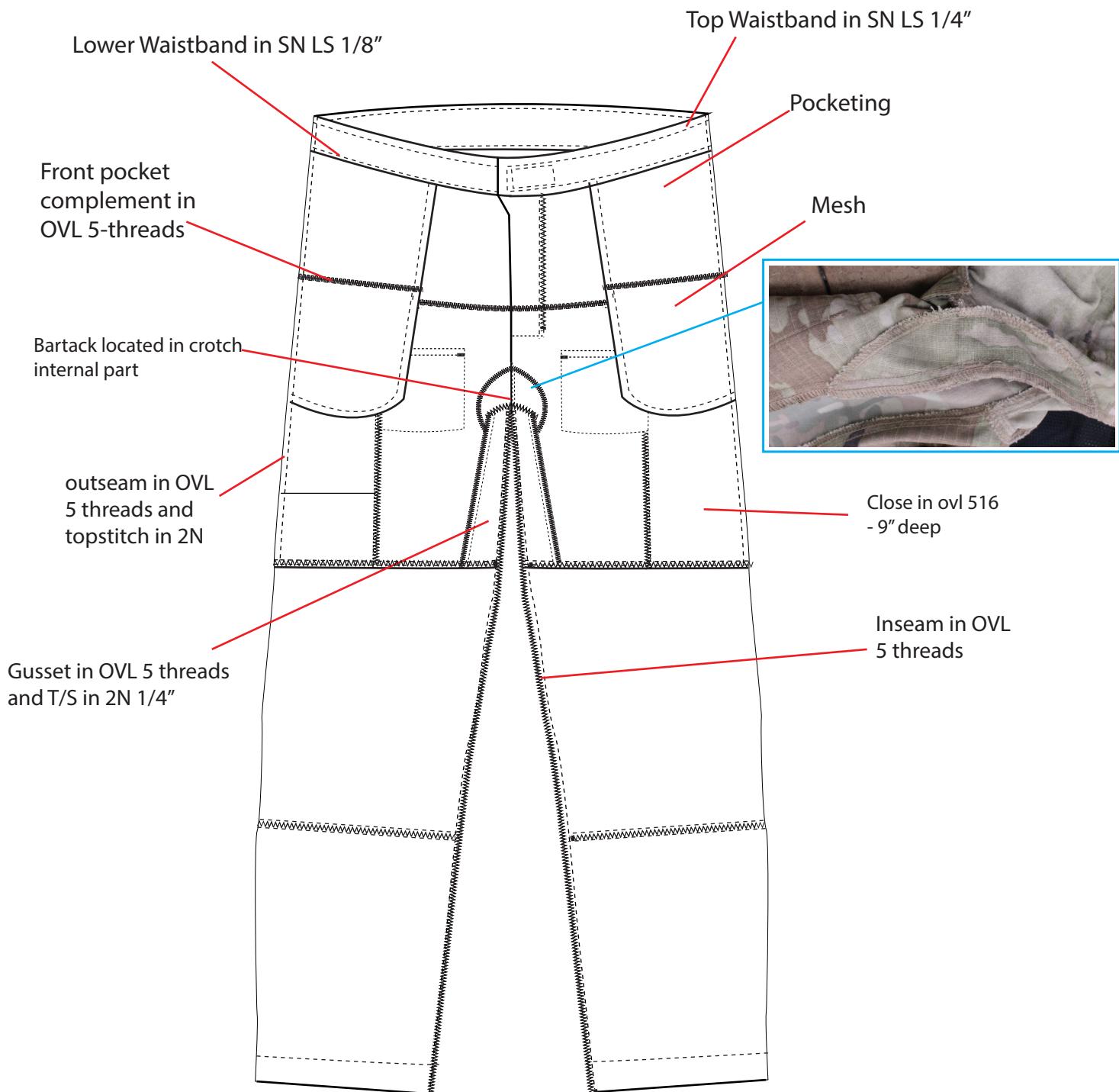
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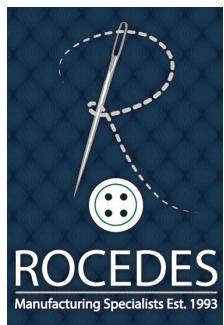
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FRONT INSIDE OF GARMENT





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BACK INSIDE OF GARMENT

1 " Elastic to attach Velcro hook located on the inside of the waistband and attached to SN LS at the back of the waistband.

Seam to fix elastic (goes through all layers)

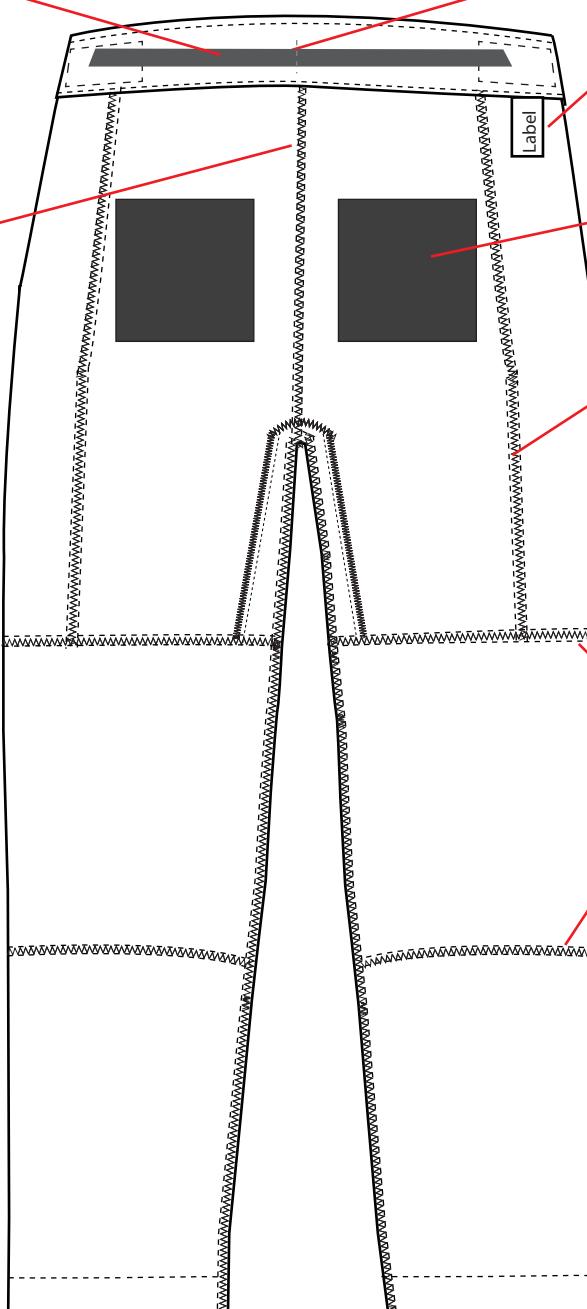
Close Seat in OVL 5 threads & T/S in 2N 1/4"

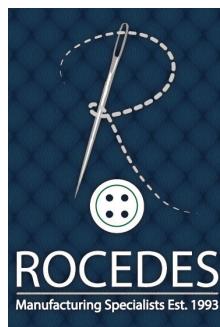
Label 1" from side seam (Left)

Close back pocket in SN LS 1/8" gg

Sew complements in OVL 5 threads and T/S in 2N1/4"

Sew complements in OVL 5 threads and T/S in 2N 1/4"





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BOM

STYLE	ITEM	DESCRIPTION	NEEDS	YIELD	LOCATION	UDM
HAP04 MCAM	L005919MCP	VTX RIPSTOP 2-PLY 60.5% NYL37% COT/2.5% LYCRA-MULTICAM (59"+/-5")	288.00	2.40	Main Body	yds
HAP04 MCAM	L006046MCP	6.8oz 4way (520E) Nylon Spandex w/CQ-DWR, Multicam 54"	70.80	0.59	Gusset, Knee, Below Waistline	yds
HAP04 MCAM	M50000C1	Cordura 500D 100% Nylon Multicam	12.00	0.10	Front pocket	yds
HAP04 MCAM	LP6R Black	LP6R micro mesh 110gsm D70/36F 100% Polyester Black	63.60	0.53	Pockets and back knees	yds
HAP04 MCAM	ST3-66-BK	PCSSII 10 PCSSP pocketing black	12.00	0.10	Pockets front	yds
HAP04 MCAM	PY4310	Interlining non wvn charcoal	46.80	0.39	Back belt, fly, waistband, cellpocket, front pocket, flap pocket	yds
HAP04 MCAM	T60 C0506/30494	T60 Permacore/ Epic Dried Root	3.12	0.03	Needle	cn
HAP04 MCAM	T40 C0506 / 30494	T40 Permacore/ Epic Dried Root	9.47	0.08	Bobine-looper serge	cn
HAP04 MCAM	T40 C9710 / 32002	T40 Permacore/ Epic Black	2.84	0.02	Mesh	cn
HAP04 MCAM	Zipper #5 Black	#5 Coil chain 5/8" tape with top stops both ends IF580 Black	35.00	0.29	Fly	YD
HAP04 MCAM	N56B(M)-IP32	Slider Black #5	120.00	1.00	Fly zipper	ea
HAP04 MCAM	650 Paracord	Round cord Coyote	24.50	0.20	Puller zipper	yds
HAP04 MCAM	Termocogible	Bandage Puller heat shrinkable spaghetti 6mm	4.80	0.04	Puller zipper	Mts
HAP04 MCAM	RES-39469H00SN/24	Socket Plastic Black	240.00	2.00	Closure front	ea
HAP04 MCAM	RES-39469H00SN/24	Stud Plastic Black	240.00	2.00	Closure front	ea
HAP04 MCAM	RES-39469H00SN/24	24L plastic Snap Button	480.00	4.00	Closure front	ea
HAP04 MCAM	RES-39470H00EE/14	Eyelet Antique-nickel (14L)	2400.00	20.00	Cargo pocket	ea
HAP04 MCAM	RES-34983H00AS	Cord end black 18x8 mm/ Plastic Tab	480.00	4.00	Inside cargo pocket	ea
HAP04 MCAM	HL-1.5TAN499HK	1.5" Tan 499 Hook	33.25	0.28	Waistband	yds
HAP04 MCAM	HL-1.5MCLOOP	1.5" Multicam Loop	33.25	0.28	Waistband adjust	yds
HAP04 MCAM	HL-1TAN499HK	1" Tan 499 Hook	59.50	0.50	Waistband adjust	yds
HAP04 MCAM	HL-1MCLOOP	1" Multicam Loop	10.50	0.09	Flap knee inside	yds
HAP04 MCAM	HL-1TAN499HK (1/2")	1/2" Tan 499 Hook	67.97	0.57	Pockets	yds
HAP04 MCAM	HL-1MCLOOP (1/2")	1/2" Multicam Loop	67.97	0.57	Pockets	yds
HAP04 MCAM	Elastic 1 1/2"	Elastic crochet 1 1/2" Black	80.50	0.67	Inside cargo pockets	yds
HAP04 MCAM	D5211SV	Elastic Telar 1" Black	52.50	0.44	Inside side seam waistband	yds
HAP04 MCAM	Elastic	Elastic Cord Black 2.5 MM	84.00	0.70	Inside cargo pocket and hem	yds
HAP04 MCAM	E-113	Elastic 1/4" Black	7.00	0.06	Zipper Fly	yds
HAP04 MCAM	T-185/10	Grossgrain 10mm, 1 1/2" BLACK	42.00	0.35	Thigh pocket	yds
HAP04 MCAM	Content label	Size label satin 40mm	120.00	1.00	Back Waistband	ea
HAP04 MCAM	Polybag	Polybag clear 12.5"x14"+3.5"	120.00	1.00	Packing	ea
HAP04 MCAM	Polybag sticker	UPC sticker 2"x1"	120.00	1.00	Packing	ea
HAP04 MCAM	Box	Box no logo	4.80	0.04	Packing	ea
HAP04 MCAM	Lamina	Divisor Carton Comugado	9.60	0.08	Packing	ea
HAP04 MCAM	Box label	Box sticker 4x6	4.80	0.04	Packing	ea
HAP04 MCAM	Tape 3"	Tape clear 3"	32.00	0.27	Packing	Roll

HAVOK

Size	TOL	28	29	30	31	32	33	34
POM #	POM							
324	Rel. waist	(+/- 3/4)	30 1/2	31 1/2	32 1/2	33 1/2	34 1/2	35 1/2
	Rel. Ext	(+/- 3/4)	32 1/2	33 1/2	34 1/2	35 1/2	36 1/2	37 1/2
300	Seat	(+/- 1)	39	40	41	42	43	44
300	NEW SEAT		42	43	44	45	46	47
350	Front Ris	(+/- 1/2)	10 7/8	11	11 1/8	11 1/4	11 3/8	11 1/2
355	Back Rise	(+/- 1/2)	17 1/2	17 5/8	17 3/4	17 7/8	18	18 1/8
340	Thigh	(+/- 1/2)	24 1/4	24 3/4	25 1/4	25 3/4	26 1/4	26 3/4
	NEW Thigh		25 3/4	26 1/4	26 3/4	27 1/4	27 3/4	28 1/4
177	Bottom	(+/- 1/4)	16 3/4	16 7/8	17	17 1/8	17 1/4	17 3/8
	Inseam	(+/- 3/4)						34

Size	TOL	35	36	37	38	39	40
POM #	POM						
324	Rel. waist	(+/- 3/4)	37 1/2	38 1/2	39 1/2	40 1/2	41 1/2
	Rel. Ext	(+/- 3/4)	39 1/2	40 1/2	41 1/2	42 1/2	43 1/2
300	Seat	(+/- 1)	46	47	48	49	50
300	NEW SEAT		49	50	51	52	53
350	Front Ris	(+/- 1/2)	11 3/4	11 7/8	12	12 1/8	12 1/4
355	Back Rise	(+/- 1/2)	18 3/8	18 1/2	18 5/8	18 3/4	18 7/8
340	Thigh	(+/- 1/2)	27 3/4	28 1/4	28 3/4	29 1/4	29 3/4
	NEW Thigh		29 1/4	29 3/4	30 1/4	30 3/4	31 1/4
177	Bottom	(+/- 1/4)	17 5/8	17 3/4	17 7/8	18	18 1/8
	Inseam	(+/- 3/4)					18 1/4

INSEAM LENGTHS 30,32,34 and 36"

Thigh is measured 1" below crotch point.

Inseam is measured along front of gusset.

Seat is measured straight from side to side at bottom of fly approx. 7" below waistband.