

SPECIFICATIONS – JULY 2010

SFMTA ENFORCEMENT SUMMIT PANTS (Waterproof Breathable) ITEM 18

VENDOR: MOCEAN, Inc. Costa Mesa, CA., or acceptable like alternate.

STYLE: #2021A “Summit Pant”, or acceptable like alternate

COMPONENTS

The Summit Pant shall consist of Supplex® nylon that is laminated with a waterproof/breathable membrane and is coated with Teflon HT® durable water-repellant barrier and fabric protector. The Summit Pant is fully lined and uninsulated. The outer shell features a zipper fly, a gusseted crotch, tapered legs, articulated knees with vents, 2-zippered hand pockets with flaps, 2-gusted cargo pockets that are secure with Velcro flap closures, a pen pocket with 2-pen ports, 2-zippered back pockets with welt flaps, a shirred waistband with 5-belt loops and elastic cuffs with zipper openings. As added safety options, reflective tape shall be added to the lower side seams and to the back cuff area of the pant legs. The Summit pant shall be available in regular and long lengths and is designed to be worn over a padded liner or various thermal liners. The thermal liners and padded liner are available as separate items from MOCEAN. The reflective tape is an added option.

FABRICS

Shell Fabric:

Fabric:	100 Supplex® Nylon
Warp:	70 denier textured 34-filament nylon
Fill:	2-ply 70 denier 34 filament nylon
Construction:	160 x 72/Plain Weave
Laminate:	Polyether-ester block copolymer, monolithic hydrophilic film membrane
Finish:	Piece Dyed/Teflon® durable water-resistant (DWR) treatment

Mesh Lining Fabric:

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

Pocketing Fabric:

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

REFLECTIVE MATERIAL (OPTIONAL)

The reflective material shall consist of a highly reflective transfer film that a maximum minimum R (coefficient of retro reflection) of 500 candelas per lux per square meter ($\text{cd} - \text{lx}^{-1} - \text{m}^{-2}$), measured by retro reflective intensity testing procedures ASTM E809 and E810. This represents the (high) industry standard of 3M™ Scotchlite™ Reflective Transfer film 8710 (@ 500 $\text{cd} - \text{lx}^{-1} - \text{m}^{-2}$). The reflective material shall be silver and the grosgrain tape shall be black or navy. The reflective material and grosgrain tapes shall meet or exceed EN471 laundry standards and be able to withstand rigorous home laundry washings and are professionally dry cleanable. To maintain the performance of the reflective material, the 3M Corporation recommends the application of Scotchgard™ fabric protector to the reflective material.

COLOR

The shell fabric shall be available in: Police Navy Avalanche.

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

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

The shell construction and topstitch thread color shall match the color of the shell fabric.

The lining thread color shall be black.

MEASUREMENTS

All measurements are subjected to a variance of +/-1/2-inch.

STYLE

MOCEAN Style #2021 "Summit Pant" (regular and long lengths), or acceptable like alternate

The Summit Pant is fully lined and the shell features a zipper fly, a gusseted crotch, tapered legs, articulated knees with vents, 2-zippered hand pockets with flaps, 2-gusseted cargo pockets that are secured with Velcro® flap closures, a pen pocket with 2-pen ports, 2-zippered back pockets with welt flaps, a shirred waistband with 5-belt loops and elastic cuffs with zipper openings. As added safety options, reflective tape shall be added to the lower side and to the back cuff area of the pant leg.

FRONT

There shall be a left side and a right side. Each side shall consist of an upper front panel, a side front panel and a lower leg panel. The side front panel shall overlap the front panel to form a flap. The flap shall conceal the front hand pocket zippers. The front shall have a zipper fly and an elastic waistband with a draw cord adjuster. The top edge of the front panel shall be turned, folded and finished clean to enclose the front portion of the waistband elastic. The waistband shall not open at the top of the zipper fly. The front rise is measured from the top edge of the waistband to the front edge of the crotch gusset piece and shall measure no more than 11 1/2-inches. The hips shall measure no more than 26-inches. The inseam length of the pant shall measure no less than 32-inches (reg. length). The crotch area of the front panel shall be surged and sewn with 5-thread over lock and double needle topstitched 1/4-inch gauge to the front edge of the crotch gusset piece.

CROTCH GUSSETT

There shall be a crotch gusset that is made from shell fabric. The crotch gusset shall act to permit full extension of the legs without encountering binding. The gusset shall traverse between the inseams of the front and back panel assemblies and terminate in the front and back leg inseam(s) at a point to less than 11-inches from the front panel crotch seam. The gusset shall measure no less than 3-inches wide at the center of the crotch and blend into the front and back panels. The back edge of the crotch gusset assembly shall be surged and sewn with 5-thread over lock and double needle topstitched ¼-inch gauge to the back panel assembly.

BACK

The back shall consist of a left side panel and a right side panel. The top edge of the back panels are to be turned, folded and finished clean to enclose the back portion of the waistband elastic. The crotch area of the back panel shall be sewn to the back edge of the crotch gusset piece. The back rise is measured from the top edge of the waistband to the back edge of the crotch gusset piece and shall measure no more than 18 ½-inches. There shall be two back pockets.

BACK POCKETS

There shall be 2-back pockets with zipper closures that are covered with welt flaps. The back pocket opening shall be made with a zipper and begin not more than 4-inches below the finished edge of the waistband and 2-inches from the side seam. The zipper shall be concealed under welt flaps. The welt flaps shall be made of shell fabric and interlined with a non-woven, non-fused material during the sub-assembly. The welt flaps shall measure no more than 6 ½-inches long and 1-inch wide. The flap edges shall be edge stitched 1/16-inch gauge. The pocket bags shall be made of pocketing fabric and measure no more than 6-inches deep and 7-inches wide. The pocket bags may be closed and edge-stitched ¼-inch gauge or may be closed and surged with 5-thread over lock.

LINING

The lining shall consist of 7-piece construction made from lining material. There shall be 2-upper front pieces, 2-lower leg pieces, 2-back pieces and a crotch gusset piece. There shall be an elastic relief fly assembly made from ¼-inch braided elastic. The elastic shall be surged and sewn with 3-thread over lock into the center front lining assembly to permit access through the mesh lining to the zipper fly. The elastic shall extend along the right side lining down 5-inches and complete a return loop to the top of the left side lining that is caught in the waistband turn-back to close the elastic loop. There shall be a gusset in the crotch area of the lining. The top inseam area of the front lining assembly shall be surged and sewn with 5-thread over lock to the forward edge of the crotch gusset-lining piece. The top inseam area of the back lining assembly shall be surged and sewn with 5-thread over lock to the rear edge of the crotch gusset-lining piece. There shall be 2-darts that extend in from both the inseam and side seam of the upper front lining pieces to form a point of articulation in the knee area of each leg. The lining darts shall be set and sewn with a single needle operation in a neat and durable fashion. The side seams of the front and back-lining assemblies shall be surged and sewn together with 5-thread over lock. The top of the lining assembly shall extend across and down from under the front waistband turn-back and be surged and sewn with 5-thread over lock and double needle topstitched ¼-inch gauge to the lower leg shell piece. The top of the back lining assembly shall extend across and down from under the back waistband turn-back and be caught in the cuff assembly turn-back. The lower leg lining piece shall extend down from under the front lining/lower leg seam and into the cuff turn-back.

FRONT LEGS

The front legs shall consist of an upper front panel and a lower leg panel. The upper front panel shall have a point of articulation in the knee area of each leg. There shall be 2-darts that extend in from both the inseam and side seam of the upper front panels to form the point of articulation in the knee area of each leg. The darts shall be sewn and single needle topstitched 1/16-inch gauge in a neat and durable fashion. The upper front panels shall extend down to overlap the lower leg piece to create a vent. The upper front panel shall not overlap the lower leg panel more than 2-inches. The upper front panel shall be hemmed with 3-thread edge stitched and turned back 1-inch and single needle topstitched 1-inch gauge. The lower leg panel shall extend up from the cuff and shall be surged and sewn with 5-thread over lock and double needle topstitched ¼-inch gauge to the upper leg mesh lining. The intersecting seam shall be concealed under the leg vent.

FLY

The zipper shall be made from 3-piece construction in a French Fly design. There shall be a right fly extension piece and a left fly facing piece made from shell fabric and a left fly facing lining piece made from non-woven material. The left fly facing piece shall be lined with the left fly facing lining piece during the sub-assembly and surged with 3-thread over lock. The left fly zipper tape shall be single needle edge-stitched in a neat and durable fashion to the sub-assembled left fly facing piece to complete the sub-assembly. The sub-assembled left fly facing piece shall be sewn to the shell fabric to form the left fly facing assembly. The center front edge of the left front shell shall be edge-stitched 1/16-inch gauge to the left fly facing assembly. The left fly facing assembly shall be double needle topstitched ¼-inch gauge no less than 1 ¼-inches from the finished edge of the left fly assembly and shall form a 90 curve into the center front rise no more than 1-inch below the fly zipper stop. There shall be a bar tack, sewn across the topstitching at the bottom of the left fly assembly and at the point of termination of the 90 curve. The finished edge of the left fly assembly shall extend over the zipper closure. The right fly extension shall be folded and sewn to the right fly zipper tape in a neat and durable fashion. The edge of the right front assembly shall be turned and edge-stitched 1/16-inch gauge in a neat and durable fashion to the zipper tape down to the center front rise. The right fly extension shall extend down from under the front waistband assembly to conceal the fly zipper from the inside. The entire fly assembly shall finish clean into the waistband turn-back.

WAISTBAND

The waistband shall be created in the turn-back of the top edge of the front and back panel assemblies. The waistband shall be Shirred and finish clean on the inside. The waistband shall finish 1 ¾-inches wide and feature elastic that is enclosed in the waistband and Shirred and gathered in a three stitch, multi-needle chain stitch operation. The Shirred gathers shall appear in a uniform and equidistant fashion. There shall be an internal draw cord that circles the waistband in a tunnel between the top and middle stitches and exits through two, ½-inch buttonholes that are set 1 to 2-inches apart and equidistant from the center front seam. The draw cord shall measure 1/8-inches in diameter and no less than 55-inches in length and may or may not be knotted or fused at the ends.

SLASH POCKETS

There shall be 2-slash hand pockets with zipper closures that are covered with flaps. The side front panel shall overlap the front panel to form a flap that extends from the waistband to the side seam. The flap shall conceal the front hand pocket opening and extend from the waistband to the side seam at a 60 angle. The pocket flap shall be sewn into the side seam at a point 12-inches down the side from the top edge of the waistband. The pocket flap shall be interlined with a non-oven, non-fused material during sub-assembly and shall finish no more than 12-inches long and 1 ¼-inches wide. The flap shall be single needle topstitched 1 ¼-inch gauge to the zipper tape and the flap edge shall be single needle edge stitched 1/16-inch gauge to hang open. The zipper opening shall be concealed under the flap and shall begin 1-inch from the bottom of the waistband and terminate no less than 7 ¾-inches from its point of origin. There shall be a bottom pocket and a top pocket. The bottom pocket and the top pocket shall be made from pocketing fabric. Sewing the top pocket to the bottom pocket shall form the pocket bag. The pocket bag may be closed and single needle edge-stitched ¼-inch gauge or may be surged and sewn closed with 5-thread over lock. The bottom of the slash pocket shall be faced with shell fabric. The bottom pocket facing shall finish no less than 2-inches wide and shall extend down the length of the bottom pocket. The bottom pocket facing shall be sewn and surged with 5-thread over lock and single needle topstitched ¼-inch gauge to the bottom pocket bag. The bottom pocket shall be sewn to the upper zipper gauge. The top pocket shall be sewn to the lower zipper tape and edge stitched 1/16-inch gauge. The pocket bag shall measure no more than 14-inches deep from the top of the pocket opening.

CARGO POCKETS

There shall be 2 gusseted cargo pockets with flap closures that are made from shell fabric. The cargo pocket shall consist of 3-pieces; a pocket flap, a pocket face and a pocket gusset. The cargo pocket assembly shall begin no more than 12-inches down the side seam of each pant leg. The cargo pocket shall finish no more than 8-inches wide, 8-inches deep and asymmetrically expand 2-inches at the back edge of the pocket. The cargo pocket opening shall be covered by a flap that is secured with Velcro® closures. The flap shall be sewn and double needle edge stitched ¼-inch gauge to the shell fabric no more than 1/2-inch above the cargo pocket opening. The edge of the pocket flap shall be double needle edge stitched ¼-inch gauge. The cargo pocket face shall be sewn and double needle topstitched ¼-inch gauge to the cargo pocket gusset. The cargo pocket gusset shall be sewn and single needle topstitched 1/16-inch gauge to the back panel. The bottom and front side edges of the cargo pocket assembly shall be sewn and double needle topstitched ¼-inch gauge to the shell fabric. The cargo pocket shall be

set no more than 1-inch below the bottom of the hand pocket opening. The right cargo pockets shall have a pen pocket sewn to it.

PEN POCKET

There shall be a pen pocket located on the right cargo pocket face piece and sewn to the front edge seam. The pen pocket shall be made of shell fabric. The pen pocket opening shall measure 2-inches and began at no less than 2-inches down from the cargo pocket zipper opening. The pocket shall finish 2-inches wide and 5 ½-inches long. The pen pocket opening shall be edge-stitched 1/4-inch gauge. There shall be a single needle top stitch running the center length of the pen pocket, equally dividing it; thus, there shall be 2-pockets formed between the front leg edge seam and the finished edge of the pen pocket. The pocket bag shall terminate in the bottom edge of the cargo pocket.

CUFFS

The cuffs shall be elasticized, shirred and have zipper opening. The zippers shall open along the side seam and extend up from the finished edge of the cuffs. The cuffs shall finish and neat on the inside and single needle topstitched 1-inch gauge to enclose the elastic.

BELTLOOPS

There shall be five, 7/8-inch wide belt loops sewn and set equidistant from one another on the waistband with the center back rise being the point of origin. The belt loops shall be of the same fabric as the front shell fabric and folded with 4 top stitches that are se equidistant from edge to edge. The bottom of the belt loops shall be bar tacked in the bottom of the waistband and the top of the belt loops shall be turned back and bar tacked to the top of the waistband in order to "float" as the end user sits. The belt loops shall be no less than 2 ½- inches in diameter and are designed to accept an inner belt to support a nylon Sam Brown belt or other duty belts.

REFLECTIVE MATERIAL (added option)

There shall be reflective material added to the side seams and to the back cuff area of the pant legs. One section of reflective material shall extend down the side seam of each leg, from below the cargo pockets to the cuff hem. A second section of reflective material shall extend from side seam to inseam across the back of the lower leg calf area. The reflective material shall be sewn and single needle topstitched 1/16-inches gauge to the shell fabric in a neat and durable fashion.

CHAMOIS PAD

Each pant shall come with an optional "Chamois" Pad sewn into the seat and crotch.

ZIPPERS

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

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

The cuff-opening zipper shall be YKK coil plastic tooth type size 4.5 or equivalent. The zipper shall have a single slider and locking pull. The tape shall measure 5/8-inch wide. The zipper shall open from the bottom of the cuff and 8-inches up the side seam from the finished edge of the cuff. The zipper shall be concealed behind a single flap that extends from the front edge of the zipper tape to the back edge of the side seam. The zipper flap is approximately 3/8-inch wide and topstitched 3/8-inch gauge to the zipper tape. The zipper shall measure 8-inches long and be closed at the end.

SEAM AND STITCHING

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

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

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

The welt pocket assembly, fly-zipper assembly, belt loops, reflective tape, front t leg darts and cuff zipper assembly shall be single needle topstitched 1/16-inch gauge.

The pocket flap shall be single needle edge stitched ¼-inch gauge.

The leg vent hem and cuff hem shall be single needle edge stitched 1-inch gauge.

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

All stress points shall be bar tacked.

THREAD

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

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

SIZES

The Summit Pant shall be available in regular and long lengths in the following sizes: XS-5X.

LABELS

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

ADDITIONAL OPTIONS – SFMTA-ENFORCEMENT

1. 3M Reflective tape affixed around calf of pant.
2. 3M Reflective tape affixed to back of pant leg seam starting at the Calf and running down to the elastic hem on the bottom.
3. Padded Chamois: Optional

SPECIFICATIONS – JULY 2010

SFMTA ENFORCEMENT ZIP-IN FLEECE JACKET ITEM 19

VENDOR: MOCEAN, Inc. Costa Mesa, CA, or acceptable like alternate

COMPONENTS

The Zip-In Jacket consist of polyester fleece and is unlined. It is designed to be zipped in and out o various jacket shells or, worn alone as thermal outerwear. It is available in 100 weight Micro Fleece or 200 weight Polar Fleece.

FABRICS

Micro Fleece Shell Fabric:

Fabric: 100% Spun Polyester Fleece
Construction: Knit
Yarns: Face: Spun Yarn 30 singles
Stitch: 120 denier 34 filament polyester
Width: 61/62 inch
Weight: 9.5 oz/linear yard
Finish: Brushed and sheared face, brushed and sheared back/DWR

Polar Fleece Shell Fabric:

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

Pocketing Fabric:

Fabric: 100% Polyester
Construction: Warp Knit Tricot
Yarns: 50/24-denier polyester
Width: 46 inches
Weight: 1.9 oz/yard²
Finish: Piece Dyed

ZIP-IN JACKET

COLOR

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

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

The pocketing fabric and zippers shall be black.

MEASUREMENTS

All measurements are from a relaxed state, not stretched.

STYLE

MOCEAN Style 36551M "Micro-Fleece Zip-In Jacket", or acceptable like alternate

ZIPS-INTO JACKETS

- | | | |
|----|-------------------------|-----------------------|
| 1. | MOCEAN Style #5051/S-99 | "The Code-B Jacket" |
| 2. | MOCEAN Style #5052/S-99 | "The Velocity Jacket" |
| 3. | MOCEAN Style #5054/S-99 | "The Pursuit Jacket" |
| 4. | MOCEAN Style #6023/S-99 | "The Barrier Jacket" |
| 5. | MOCEAN Style #6050/S-99 | "The Standard Jacket" |
| 6. | MOCEAN Style #6059/S-99 | "The Patrol Jacket" |
| 7. | MOCEAN Style #6050/S-99 | "The Standard Jacket" |

FRONT

The front shall consist of an upper front piece and a lower front piece. It shall be unlined. The upper front piece shall extend from the center collar & body seams down to meet the lower front piece. The lower front piece shall extend up from the hem no more than 10 ½-inches. The two pieces shall be surged and sewn 5-thread over lock and topstitched ¼-inch gauge to form a body & pocket seam. The front shall have a separating, reversible zipper closure. The zipper shall run from the top of the collar to the bottom of the jacket. The front length shall be a minimum of 24-inches long. The front zipper shall be exposed. There shall be left and right zipper facings. The zipper facings shall be made of shell fabric. The zipper facings shall measure no more than 2-inches wide and begin at the collar & body seams and end in the hem binding. The exposed zipper facing edges shall be edge stitched with 3-thread over lock. The half chest shall measure 25-inches wide.

COLLAR

The collar and the collar lining shall be made from shell fabric. The front of the collar shall meet at the collar & body seam. The collar edges shall measure 0-inch wide at the center front and 2 ¾-inches wide at the center back. The collar shall be surged and sewn to the jacket body with 3-thread over lock and the resulting seam covered with bias cut tricot/spandex binding tape. The collar top shall be edge-stitched ¼-inch gauge and 22-inches across the top.

OUTER POCKETS

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

INNER POCKETS

The inner pocket shall be made of pocketing fabric and consist of two-pieces to form the outer pocket bottom pocket. Inside access to the outer pocket shall be available through a vertical access zipper that is sewn into the bottom pocket fabric. The access zipper shall be sewn vertically, between the upper front piece & the lower front piece seam and the hem. The access zipper shall open from the body & pocket seam down to the hem binding. The bottom pocketing fabric edges shall be edge stitched 1/16-inch gauge to the vertical zipper tape.

PEN POCKET

There shall be 2 pen pockets located on the left and right zipper facings. The pen pockets shall be made of pocketing fabric. The pocket openings shall measure ¼-inch and began at no more than 4-inches down from the collar & body seam. The pockets shall measure 2-inches wide and 5-inches long. The pocket opening shall be exposed on the inside of the zipper facing

and be top stitched ¼-inch gauge. There shall be a single needle top stitch running the center length of each pen pocket, equally dividing it. The pockets shall be formed between the center front zipper and the finished edge of the zipper facing.

BACK

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

SLEEVES

The sleeves shall be set-in, one-piece construction. The sleeve shall measure 11 ½-inches wide at the body & sleeve seam and measure 36-inches long from the center back collar to the end of the cuff opening. The sleeves shall be unlined and the cuffs shall be formed and finished with bias cut tricot/spandex binding tape. The binding tape shall be set via a mechanical folder and top stitched 1/16-inch.

UNDER ARM VENT

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

HEM

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

ZIPPERS

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

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

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

SEAMS AND STITCHING

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

THREAD

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

SIZES

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

LABELS

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

SPECIFICATIONS – JULY 2010

SFMTA ENFORCEMENT ZIP-IN FLEECE VEST ITEM 20

VENDOR: MOCEAN, Inc. Costa Mesa, CA., #0551, or acceptable like alternate.

COMPONENTS

The Zip-In Vest consists of polyester fleece and is unlined. It is designed to be zipped in and out of various jacket shells or, worn alone as thermal outerwear. It is available in 100 weight Micro Fleece or 200 weight Polar Fleece.

FABRICS

Micro Fleece Shell Fabric:

Fabric: 100% Spun Polyester Fleece
Construction: Knit
Yarns: Face: Spun Yarn 30 singles
Stitch: 120 denier 34 filament polyester
Width: 61/62 inch
Weight: 9.5 oz/linear yard
Finish: Brushed and sheared face, brushed and sheared back/DWR

Polar Fleece Shell Fabric:

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

Pocketing Fabric:

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

ZIP-IN VEST

COLOR

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

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

The pocketing fabric and zippers shall be black.

MEASUREMENTS

All measurements are from a relaxed state, not stretched.

STYLE

MOCEAN Style 36551M "Micro-Fleece Zip-In Jacket", or acceptable like alternate

The waist length, zip-in vest features a center front zipper and set-in shoulders. It has two outside hand pockets, two inside pockets, two inside pen pockets and a stretch hem bound in tricot/spandex. It is designed to be worn as thermal outerwear to be zipped-into and zipped-out of the following jackets:

Jackets:

- | | | |
|----|--------------------|-----------------------|
| 1. | MOCEAN Style #5051 | "The Code-B Jacket" |
| 2. | MOCEAN Style #5050 | "The Velocity Jacket" |
| 3. | MOCEAN Style #5054 | "The Pursuit Jacket" |
| 4. | MOCEAN Style #6023 | "The Barrier Jacket" |
| 5. | MOCEAN Style #6050 | "The Standard Jacket" |

FRONT

The front shall consist of an upper front piece and a lower front piece. It shall be unlined. The upper front piece shall extend from the center collar & body seams down to meet the lower front piece. The lower front piece shall extend up from the hem no more than 10 ½-inches. The two pieces shall be surged and sewn 5-thread over lock and topstitched ¼-inch gauge to form a body & pocket seam. The front shall have a separating, reversible zipper closure. The zipper shall run from the top of the collar to the bottom of the jacket. The front length shall be a minimum of 24-inches long. The front zipper shall be exposed. There shall be left and right zipper facings. The zipper facings shall be made of shell fabric. The zipper facings shall measure no more than 2-inches wide and begin at the collar & body seams and end in the hem binding. The exposed zipper facing edges shall be edge stitched with 3-thread over lock. The half chest shall measure 25-inches wide.

COLLAR

The collar and the collar lining shall be made from shell fabric. The front of the collar shall meet at the collar & body seam. The collar edges shall measure 0-inch wide at the center front and 2 ¾-inches wide at the center back. The collar shall be surged and sewn to the jacket body with 3-thread over lock and the resulting seam covered with bias cut tricot/spandex binding tape. The collar top shall be edge-stitched 1/4-inch gauge and 22-inches across the top.

OUTER POCKETS

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

INNER POCKETS

The inner pocket shall be made of pocketing fabric and consist of two-pieces to form the outer pocket bottom pocket. Inside access to the outer pocket shall be available through a vertical access zipper that is sewn into the bottom pocket fabric. The access zipper shall be sewn vertically, between the upper front piece and the lower front piece seam and the hem. The access zipper shall open from the body and pocket seam down to the hem binding. The bottom pocketing fabric edges shall be edge stitched 1/16-inch gauge to the vertical zipper tape.

PEN POCKET

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

BACK

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

ARM OPENINGS

The arm openings shall be sleeveless. The shoulder seams shall extend no more than 6 ½-inches from the collar and shoulder seam intersection to the arm opening. The arm opening shall begin at the end of the shoulder seam and measure no more than 13-inches wide. The arm eye shall be formed and finished with bias cut tricot/spandex binding tape. The binding tape shall be set via a mechanical folder and single needle topstitched 1/16-inch gauge.

HEM

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

ZIPPERS

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

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

SEAMS AND STITCHING

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

THREAD

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

SIZES

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

LABELS

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