

SPECIFICATIONS – JULY 2010

SFMTA ENFORCEMENT PURSUIT PANTS (Water Resistant) ITEM 15 (Sizes S-2X) ITEM 15A (Sizes 3X-6X)

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

COMPONENTS

The Pursuit Pant shall consist of Supplex® nylon that is coated with Teflon HT® durable water-repellant barrier and fabric protector. The Pursuit Pant is partially lined and uninsulated. The outer shell features a zipper fly, a gusseted crotch, tapered legs, articulated knees with vents, 2-slash pockets, 2-zippered back pockets, a pen pocket, a shirred waistband with 5-belt loops and zipper cuff openings. As added safety options, reflective tape and elastic stirrups shall be attached to the lower legs. The Pursuit 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 and elastic stirrups are added options.

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
Finish: Price Dyed/with Teflon HT® durable water-repellant (DWR) treatment

Mesh Lining Fabric:

Fabric: 100% Polyester
Construction:- Warp Knit Mesh
Yarns:- 28 x 36 textured polyester
Width: 61/62 inch
Weight: 1.8 oz/yard
Finish: Piece Dyed

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

COLOR

The shell fabric shall be available in Police Navy Supplex.

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

The lining thread shall be black.

The zippers and pocketing fabric shall be black.

MEASUREMENTS

All measurements are from a relaxed state, not stretched.

STYLE

MOCEAN Style #2020S "Pursuit Pant" (regular and long lengths), or acceptable like alternate

The Pursuit Pant shall features a zipper fly, a gusseted crotch, tapered legs, articulated knees with vents, 2-slash pockets, 2-zippered cargo pockets, 2-zippered back pockets, a pen pocket, a shirred waistband with 5-belt loops and zipper cuff openings. As added safety features, grosgrain-reflective tape shall be sewn down the side seam of the lower legs and elastic stirrups shall be attached to the cuff openings. The Pursuit Pant shall be available in regular and long lengths.

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 front panel shall overlap the side front panel to form a slash pocket opening. The front shall have a zipper fly and an elastic waistband with a drawcord adjuster. The waistband shall not open at the top of the zipper fly and there shall be a gusted crotch. The front rise is measured from the top edge of the waistband to the front edge of the crotch gusset 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 sewn to the front edge of the crotch gusset piece. The front shall be lined with mesh to the knees.

LINING

The front of the pant shall be lined down to the lower leg panel. The front lining shall extend down from the waistband to the lower front leg seam. The 2-piece lining shall be of mesh fabric. The top of the lining shall extend down from inside the waistband seam across the front, from the fly assembly to each side seam and be surged and sewn with 5-thread over lock in the side seam down to the lower leg piece. The bottom of the lining shall extend from the crotch rise seam and be surged and sewn with 3-thread over lock into the mesh lining at the center front to permit access through the mesh lining to the zipper fly. The elastic shall be sewn from the top of the right side lining down 5-inches and complete a return loop to the top of the left side lining and is caught in the waistband/lining scam to close the elastic loop. The resulting opening shall serve as a relief fly through the mesh lining.

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 a 2-darts that extend in from both the inseam and outseam of the upper front panels to form the point of articulation. 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 shall extend up from the cuff and shall be surged and sewn with 5-thread over lock and double needle topstitched 1/4-inch gauge to the upper leg mesh lining. The intersecting seam shall be concealed under the leg vent.

CROTCH GUSSET

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 blinding. The gusset shall traverse between the inseams of the front and back panel assembly(ies) and terminate in the front and back leg inseam(s) at a point no 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 entire crotch gusset assembly shall be surged and sewn with 5-thread over lock and double needle topstitched 1/4-inch gauge.

FLY

The zipper fly shall be of a French Fly design. The fly system shall be made from shell fabric. The left fly assembly shall be double needle topstitched ¼-inch gauge to the front shell and the topstitching shall form a 90° curve toward the center front rise to 1-inch below the end of the fly zipper. The edge of the left fly facing shall be edge stitched 1/16-inch gauge and hang open to allow access to the zipper opening. The right fly lining shall be sewn to the right fly zipper in a neat and durable fashion. The edge of the right front panel shall be turned and edge stitched 1/16-inch gauge to the zipper tape down to the center front rise. The fly zipper shall be caught in the waistband turn back along with the left fly facing and right fly lining. There shall be a bar tack, sewn across the topstitching, at the bottom of the left fly assembly at the edge of the front rise. There shall be a second bar track, sewn across the topstitching at the point of termination of the 90° curve. Both bar tacks shall be sewn through the right fly lining.

WAISTBAND

The waistband shall be Shirred and finish clean on the inside. The waistband shall finish 1-3/4 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.

BACK

The back is unlimited and 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 a minimum of 18-inches.

SLASH POCKETS

There shall be 2-slash hand pockets. The front panel shall overlap the side front panel to form a slash pocket opening at the side seam. The slash pocket opening shall extend the side seam from the waistband and terminate in the sideseam. The pocket opening shall be shaped in a quarter-elliptical fashion that originates under the waistband and curves approximately 45° towards its termination at the side seam. The pocket opening shall begin under the waistband no more than 1-inch from the side seam and extend down no more than 8-inches and curve in toward the front fly no more than 1-inch. The pocket opening shall be sewn, turned and folded to finished clean and double needle edge stitched ¼-inch gauge. 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 edge-stitched ¼-inch gauge or may be surged 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 3-inches wide and shall run the length of the pocket bag. The bottom pocket facing shall be sewn to the bottom pocket bag with surged, 5-thread over lock and topstitched ¼-inch gauge. The pocket bag shall measure no more than 15-inches deep from the top of the pocket opening.

CARGO POCKETS

There shall be 2 cargo pockets that are made from shell fabric with zipper openings. The cargo pocket shall consist of 3 pieces: a zipper flap, a pocket face and a pocket gusset. The cargo pocket shall finish no more than 7-1/2 inches wide, 7-inches deep and asymmetrical expand 2-inches at the back edge of the pocket. The cargo pocket opening shall be made with a zipper and begin approximately 1-inch down from the top edge of the cargo pocket assembly. The top pocket zipper flap piece shall be sewn to the upper zipper tape and the pocket face piece shall be sewn to the lower zipper tape. The zipper shall be concealed under the zipper flap turn back and the pocket face turn back that meet over the center of the zipper and are approximately 3/8-inch wide and are single needle edge stitched 3/8-inch gauge to the zipper tape. The zipper shall hang down from under the zipper flaps. The right cargo pocket shall have a pen pocket sewn to it. 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 top, 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 1-1/2 inches below the bottom of the slash pocket opening.

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 begin 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 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 have elastic stirrups and zipper openings. The cuff hem elastic shall be excluded as an option. The zippers shall open along the side seam and extend up from the finish edge of the cuffs. There shall be an elastic stirrup sewn in a neat and durable fashion to the inside of each cuff opening. The elastic shall be no less than 1-inch gauge and extend from inseam to side seam. The cuff hem shall be turned, folded and finished clean and single needle topstitched 1-inch gauge.

BELT LOOPS

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 set 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 loop 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 nylon Sam Brown belt or other duty belts.

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 cargo pocket zippers shall be YKK coil plastic tooth type size 4.5 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 open from the front edge of the cargo pocket toward the back. The zipper shall measure 8-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 out 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-inches wide and topstitched 3/8-inch gauge to the zipper tape. The zipper shall measure 8-inches long and be closed at the top end.

SEAMS 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 pocket assembly, fly-zipper assembly, belt loops, reflective tape, from led darts and cuff zipper assembly shall be single needle topstitched 1/16-inch gauge.

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

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

All stress points shall be bartacked.

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 Pursuit 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 zipper 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 waistband sizes.

ADDITIONAL OPTIONS – SFMTA ENFORCEMENT

1. 3M Reflective tape affixed to around the pant immediately below the knee.
2. 3M Reflective tape affixed to back of pant leg seam starting at the Calf and running down to the hem or the bottom.
3. No elastic in the bottom hem of pants.
4. Padded Chamois: Optional

SPECIFICATIONS – JULY 2010

SFMTA ENFORCEMENT VAPOR POLO SHIRT # 0352 ITEM 16

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

COMPONENTS

The Vapor Polo Shirt shall consist of a micro-denier polyester knit-pique and is unlined. It is hip length and has short sleeves, an oversized chest and is designed to be worn over body armor and perspiration management liners. The perspiration management liners are available as separate items. The design may be modified by: adding reflective tape, department identification or sewing-on chest pockets or a shield keeper. The modifications are available options.

FABRIC

Shirt Shell Fabric:

Fabric:	1005 Micro-Denier Polyester
Construction:	Double Knit, Mini-Pique
Yarns:	Face: Spurn Yarn 36 singles Stitch: 70 denier micro-flament polyester
Width:	58/60 inch
Weight:	5.2 oz/yard ²
Finish:	Piece Dyed/Q-WICK

#0352 SHORT SLEEVE VAPOR POLO

COLOR

The shell fabric shall be available in the following color: Police Navy

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

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

The buttons and binding tape shall match the color of the shell fabric.

The (optional) pockets shall match the color of the shell fabric.

MEASUREMENTS

All measurements are from a relaxed state, not stretched.

STYLE

MOCEAN Style #0352 "Vapor Polo Short Sleeve", or acceptable like alternate

The Vapor Polo Shirt features a two-button placket and set-in sleeves. It has placket and shoulder epaulets and short sleeves. The chest is over sized and the collar and cuffs are made from the shirt shell fabric. It has a split hem and it is unlined and uninsulated. The polo shirt is designed to be worn over body armor.

FRONT

The front shall be one-piece construction. The front shall have a center front placket with a two-button closure. The front placket shall house a microphone epaulet. The chest is over sized to accommodate body armor. The front length shall be a minimum of 30-inches long.

PLACKET

The placket assembly shall be in a French seam design and set in the boxed seam below the collar of the upper front. Both left and right placket shall be made of the same fabric as the shirt shell and be fused with a non-woven material during its sub-assembly. The left placket shall be faced and the right front placket shall be lined. The left front placket facing shall be sewn into the box seam in a neat and durable matter. The right front placket lining shall be sewn into the box seam in a neat and durable matter. The left and right front placket shall be stitched, turned and topstitched 1/16-inch gauge to the front shell. The bottom edge of the placket shall form a sharp, 90 turn along the bottom of the box seam and stitched, turned and topstitched 1/16-inch gauge.

COLLAR

The collar and the collar lining shall be made from the shirt shell fabric and shall be fused with a non-woven material during its sub-assembly. The front of the collar shall finish ¼-inches from the vertical edge of the front placket. The collar edges shall measure 3-inches wide at the center front and 3-inches wide at the center back. The collar top shall be edge-stitched ¼-inch gauge and shall be 17 ½-inches across the top. The collar and body seam shall be finished with bias cut binding tape. The binding tape shall be made with the shell fabric. The binding tape shall be set via a mechanical folder and top stitched 1/16-inch. The ends of the binding tape shall be sewn into the front placket and box seams. The exterior of the collar and body seam shall be top stitched ¼-inch gauge.

BACK

The back shall be one-piece construction. It shall measure a minimum of 31 ½-inches long from the center collar seam to the bottom of the hem. The back shall have a dropped hem tail.

SLEEVES

The sleeves shall have set-in shoulders and be one-piece construction. The sleeve shall measure 11-inches wide at the shoulder seam and measure 22-inches long from the center back collar to the end of the cuff opening. The cuff opening shall measure 6-inches wide.

CUFF

The cuff piece shall be made of shirt fabric. The cuff shall be folded in half, surged and sewn to the sleeve piece with 3-thread over lock. The cuff shall finish 1-inch wide.

EPAULETS

There shall be an epaulet on each shoulder. The epaulet shall measure a ½-inches wide and shall be of the same fabric as the shell fabric. The epaulet shall be folded and edge stitched 1/16-inch gauge. The end of each epaulet shall be sewn (o/c) in the top shoulder seam between the body and sleeve seams. The epaulets shall extend 5 ½-inches from the top shoulder seam toward the collar and straddle the front and back panel shoulder seam. There shall be a single needle top stitch that secures the

epaulet to the shoulder. The stitching shall form a 2 x 2-inch, "boxed-X" design that originates at the top shoulder seam. The epaulet shall finish in a pointed shape. The point of origin for the epaulet finish point shall be 4 ½-inches from the shoulder seam. The finish point shall be secured to the shoulder seam via button. There shall be a 3/8-inch buttonhole ¼-inch from the finish point on the epaulet and a button sewn to the shoulder seam.

There shall be a microphone epaulet in the placket. The epaulet shall measure ½-inch wide and shall be of the same fabric as the shirt shell fabric. The epaulet shall be folded and edge stitched 1/16-inch gauge. The ends of the epaulet shall be set above the placket assembly in between the placket seam and box seam. The epaulet shall be set no more than 1/4-inch above the bottom of the box seam.

HEM

The hem shall be of a split tail design. The hem shall be vented at the sides. The side vent shall extend 2-inches up from the front hem finished edge and shall be bar tacked where it intersects at the side seam. The hem shall be 3-inches edge stitched folded ¾-inch and double needle top stitched ¼-inch gauge. The hem shall be 2-inches longer in the back.

BUTTONS

The buttons shall be first grade 24 ligne melamine and have two thread holes. The buttons shall be dyed to match the shirt shell fabric color.

SEAMS AND STITCHING

All stitching shall be lock stitch type 301. All exposed exterior seams, excluding under sleeve and side 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 Velocity Short Sleeve Polo shirt shall be available in the following sizes: SX-6X.

LABELS

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

ADDITIONAL OPTIONS –SFMTA ENFORCEMENT

1. SFMTA ENFORCEMENT logo (Dept. to provided logo sample) screened in white ink on the left front chest.
2. No shoulder epaulettes.