REQUEST FOR BID
MORNING PRIDE TURNOOUT GEAR
TOWN OF WINCHESTER, CT

Sealed bids for Morning Pride turnout gear for the Winsted Fire Department will be accepted in the office of Purchasing Agent, Town Hall, 338 Main Street, Winsted, CT 06098 until 10:00 a.m. December 29, 2023 at which time all proposals will be publicly opened and read. Specifications are available from office of Purchasing Agent at the above address. The Town of Winchester reserves the right to accept any or reject any or all bids or any part thereof if to do so is deemed to be in the best interest of the Town.
The bid shall be for The Winsted and Winchester Fire Departments, which will purchase a minimum of four (4) sets of turnout gear within one month of bid opening. Bid shall include price per set of turnout gear including delivery to 27 Elm Street, Winsted CT.

EQUAL OPPORTUNITY EMPLOYER/AFFIRMATIVE ACTION.

Don Murelli
Purchasing Agent
Detailed Technical Specifications

for

Protective Clothing for Structural Firefighting Coat and Pant

Winsted Fire Dept
27 Elm Street
PO Box 443
Winsted, CT 06098
PROTECTIVE CLOTHING FOR STRUCTURAL FIREFIGHTING
COAT AND PANT

Date: December 19, 2023

1.0 PURPOSE AND SCOPE

This specification defines the minimum requirements for structural firefighter personal protective equipment (PPE) providing limited protection as defined by NFPA 1971, Standard on Protective Ensemble for Structural Fire Fighting, Latest Edition. In the absence of comment on a particular point, industry standard practice shall be presumed to prevail. Every exception to specifications must be clearly spelled out at the time of bid.

Does Your Bid Comply With All Aspects Of This Section?  Yes ______  No ______

2.0 UNITS OF MEASURE

Current NFPA standards applicable to this product specification express values for measurement requirements in SI (metric-based) units, followed by US (inch-pound) approximate equivalents in parentheses. For the convenience of the fire department, this product specification reverses the order and presents the more familiar US approximation first, followed by the SI requirement in parentheses.

3.0 CERTIFICATION

The manufacturer must certify that the garments proposed in its bid meet or exceed all requirements of NFPA 1971. The manufacturer must also list and label this product with Underwriters Laboratories Inc. (UL) or Safety Equipment Institute (SEI), as the third party certification organization prescribed in NFPA 1971. All certification testing and test preconditioning must have been performed by an ISO 17025-certified laboratory. UL, SEI or a UL Authorized Client Test Data Program laboratory will fulfill this requirement.

Does Your Bid Comply With All Aspects Of This Section?  Yes ______  No ______


Does Your Bid Comply With All Aspects Of This Section?  Yes ______  No ______

4.0 WARRANTY

The manufacturer must provide a lifetime warranty against defects in materials and workmanship with the bid package.

Does Your Bid Comply With All Aspects Of This Section?  Yes ______  No ______
5.0 LABELING REQUIREMENTS

Labels shall be permanently and integrally printed onto materials that meet all the requirements for labels of NFPA 1971. The garment shall be clearly labeled to fully identify the material content of all three layers: outer shell, moisture barrier and thermal liner.

In addition, each separable outer shell component shall be labeled in an obvious location including the size, date of manufacturer and an individualized serial number and bar code that matches the corresponding garment liner.

Does Your Bid Comply With All Aspects Of This Section?  Yes ____  No ____

6.0 CARE INSTRUCTIONS

The manufacturer shall provide a user information guide for the garments, which complies with user information requirements of NFPA 1971. Topics shall include, but not necessarily be limited to: pre-use information, preparation for use, inspection frequency and details, don/doff, use consistent with NFPA 1500, maintenance and cleaning, and retirement and disposal criteria and considerations.

This document shall be packaged with each garment along with a specification summary sheet describing garment custom options, sizing and production details. This written information shall be in complete compliance with NFPA 1971 requirements, and shall reference same.

Does Your Bid Comply With All Aspects Of This Section?  Yes ____  No ____

7.0 SIZING

To ensure a perfect fit, sizing shall be determined by actual measurements taken of the firefighter by a trained measurement specialist, or sizing try-ons, or both. Sizing measurements shall be taken in the evening at 27 Elm Street, Winsted CT. Under special circumstances the Winsted Fire Department may agree to a different location if mutually agreed between the manufacturer and the department.

Garments shall be available in custom sizing as follows: coat chest in 2-inch (5.1 cm) increments, coat sleeve in 0.5-inch (1.3 cm) increments, coat back length in 1-inch (2.5 cm) increments, pant waist in 2-inch (5.1 cm) increments and pant inseam in 1-inch (2.5 cm) increments. A full range of women’s sizing, on women’s patterns, must also be available. Each sleeve and inseam length shall provide 100% gradation from shoulder to wrist, and from hip to ankle, to provide proper fit for individual arm and leg lengths. Pattern tailoring to custom-fit neck, bicep, hip/seat and thigh circumferences must also be provided, when needed, at no additional charge. Neither Small-Medium-Large-Extra Large sizing nor women’s garments cut to men’s patterning are considered acceptable, since proper fit facilitates mobility and minimizes stress.

Does Your Bid Comply With All Aspects Of This Section?  Yes ____  No ____
8.0 SELF-BINDING

Liner and moisture barrier shall be stitched together and turned, then topstitched, to create a self binding edge. The extra bulk of separate binding material is specifically prohibited.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

9.0 THREAD

All thread used in structural seams shall be Nomex® of minimum Tex size T-70. Light colored garments and trim areas shall feature yellow thread. Black and dark garments shall feature black thread. Tan or bronze colored garments shall feature tan thread.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

10.0 STITCH METHODS

10.1 MAJOR A & B SEAMS

Except for the collar Major A seam, which is single-needle lock stitched three times, all Major A & B seams (as defined by NFPA 1971) shall be double stitched, double feld throughout all three layers (outer shell, moisture barrier and thermal liner), and shall be made with Nomex® thread, minimum Tex size T-90. Detailed stitch and seam type requirements are shown below.

Does Your Bid Comply With All Aspects Of This Section?

For Outer Shell: Yes _____ No _____
For Thermal Lining: Yes _____ No _____
For Moisture Barrier: Yes _____ No _____
10.2 MINOR SEAMS

Most Minor seams, such as storm shields and mated hems, shall also be stitched with the specified Nomex thread. Detailed stitch and seam type requirements are shown below.

Stitch Type 301
Lockstitch as defined by ASTM D 6193-97

Seam Type SSae-2
As defined by ASTM D 6193-97, shown (a) before and (b) after required turning

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

10.3 POCKETS

Flat garment pockets shall be stitched with the specified Nomex® thread. Detailed stitch and seam type requirements are shown below.

Stitch Type 301
Lockstitch as defined by ASTM D 6193-97

Seam Type LSd-2
As defined by ASTM D 6193-97

3-Dimensional pocketing shall feature these same construction details, but the reinforced single stitch Seam Type LSd-1 may be substituted for LSd-2. Detailed seam type requirements are shown below.

Stitch Type 301
Lockstitch as defined by ASTM D 6193-97

Seam Type LSd-1
As defined by ASTM D 6193-97

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____
10.4 TRIM AND DANGER LABELS

Trim and DANGER labels shall be stitched with the specified Nomex® thread. Detailed stitch and seam type requirements are shown below.

Stitch Type 301
Lockstitch as defined by ASTM D 6193-97

Seam Type SSbd-1
As defined by ASTM D 6193-97

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

10.5 SINGLE LAYER HEMMING AND FINISHING

Single layer hemming and finishing shall be stitched with the specified Nomex® thread. Detailed stitch and seam type requirements are shown below.

Stitch Type 301
Lockstitch as defined by ASTM D 6193-97

Seam Type EFb-1
As defined by ASTM D 6193-97

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

11.0 POCKETS

When exterior pockets are specified, the following requirements shall apply to all such custom option specified exterior pockets:

All pockets and flaps shall be reinforced at the top corners with bar tack stitching.

All pockets shall be reinforced with an extra layer of NFPA-certified outer shell, moisture barrier, or other NFPA-certified reinforcement material for extra durability. The exact location of the reinforcements shall be identified in the custom options section(s).

All pockets shall have a means to drain water and shall have a means of closure.
All pocket closures shall be made either with hook and loop fastener tape a minimum of 1.5 inches (3.8 cm) wide, with a flap, or with snaps. The specific placement of the closure system shall be outlined in the custom options sections.

Does Your Bid Comply With All Aspects Of This Section?  Yes _____  No _____

12.0  TAILORED GRADING OF GARMENT LININGS

All garment layers and Cold Weather Accessory Linings shall be graduated in size to fit within in each other in the overall composite without causing bunching or binding when the garment is worn.

Does Your Bid Comply With All Aspects Of This Section?  Yes _____  No _____

13.0  POINTS OF STRESS

All points of stress shall be reinforced with sturdy bartacks. Rivets are not acceptable because of their potential for rust and electrical or heat conduction.

Does Your Bid Comply With All Aspects Of This Section?  Yes _____  No _____

14.0  REPAIRS AND ALTERATION SUPPORT

The manufacturer shall furnish, free of charge, reasonable quantities of NFPA 1971-certified thread, materials and other supplies to allow the department to manage its own ongoing internal maintenance efforts. Also, the manufacturer shall provide on call at no charge, during normal business hours, a liaison for the repair department to assist the Fire Department on a telephone consultation basis, on all maintenance or repair questions that might arise. Additionally, the manufacturer shall agree to expedite, on its own cost-only basis, all repairs that must be performed at the manufacturer’s plant, rather than in department, over the life of the contract.

Does Your Bid Comply With All Aspects Of This Section?  Yes _____  No _____

15.0  HIGH TEMPERATURES THERMAL INSULATING MATERIALS REQUIREMENT

Because thermally stable materials are essential to maximizing protective performance in firefighters’ PPE, and because NFPA only states “minimum” performance requirements, all thermal liner or thermal enhancing materials used in the garments shall also meet the following criteria after the 500 degree F oven test:

1) Material shall remain intact and flexible
2) No portion of the material shall crack, crumble or flake

Does Your Bid Comply With All Aspects Of This Section?  Yes _____  No _____
16.0 **BREATHABILITY REQUIREMENT**

Excluding where required by NFPA standard, necessary for functionality, or specifically called out in the custom option sections, all materials fabrics and reinforcements used in the construction of the garments shall be breathable and all moisture barrier material must be as specified in the Materials Section.

The breathability requirement includes but is not limited to: collar, chinstrap, storm shield, fly, water wells, front coat facings, and reinforcement cushioning where applicable.

Areas where non-breathability is allowed (absent Custom Option specifications): trim or other items placed externally on the arms that might need extra material to pass NFPA required Stored Energy Testing, hook and loop fastening, hardware or hardware backing, and pocket linings where used exterior to the outer shell.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

17.0 **CONDUCTIVE AND COMPRESSIVE HEAT RESISTANCE (CCHR)**

Using breathable materials as outlined in the section titled Breathable Materials, there shall be: A minimum area of 4” x 4” (10.2 cm x 10.2 cm) at the shoulders and elbows that provide a minimum of 25 CCHR at 2 psi. with a minimum 6” x 6” (15.2 cm x 15.2 cm) area at the knees that provide 25 CCHR at 8 psi.

In all three of these compression areas at least a portion of the protective area shall be made from high temperature fiber based materials sewn to the thermal liner on the inside of the liner toward the moisture barrier.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

18.0 **SEAM PROTECTION AT CUFFS**

At the coat and pant cuff Major A seams, the reflective trim shall stop just before the folding of the full feld seam and for additional abrasion protection be covered by a sewn on strip of polymer coated Kevlar material laid on top of the Major A seam and covering each end of the trim.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____
19.0 APPLICABLE DOCUMENTS

The following standards in their active versions on the date of invitation for bid shall form a part of this specification to the extent specified herein.

<table>
<thead>
<tr>
<th>STANDARD</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM D 6193-97</td>
<td>Standard Practice for Stitches and Seams</td>
</tr>
<tr>
<td>NFPA 1500, Latest Edition</td>
<td>Standard on Fire Department Occupational Safety and Health Program</td>
</tr>
<tr>
<td>NFPA 1851, Latest Edition</td>
<td>Standard on Selection, Care, and Maintenance of Structural Fire Fighting Protective Ensembles</td>
</tr>
</tbody>
</table>

Does Your Bid Comply With All Aspects Of This Section?  Yes _____  No _____

COAT

To avoid liability and interface problems, coats and pants shall be procured from the same manufacturer.

20.0 DESIGN CONCEPT (STYLING)

The standard coat design shall be 6-inches (15.2 cm) longer at the rear hem than at the front hem and provide continuous and unbroken moisture barrier and thermal liner protection from the collar seam to the hem at the bottom of the coat tail. Each coat length shall be determined by each individual’s torso length to provide the coat-to-pant interface as defined by NFPA 1500. Coat design must interface properly with standard waist high bunker pants. To facilitate various body types the front to rear length differential shall be made available in 3-inch (7.5cm), 4-inch (10.0cm), 5-inch (12.5cm and 6-inch (15.0cm) “Tail Drops”.

Does Your Bid Comply With All Aspects Of This Section?  Yes _____  No _____

21.0 PATTERNING CONCEPT

Garments shall feature a tailored three-piece body (with one-piece back) and one-piece, set-in sleeve construction throughout the outer shell, moisture barrier and thermal liner layers. One-piece garment body (either all layers or some layers) will not be considered acceptable since they cannot be tailored to hard-to-fit personnel. Similarly, garments with seams in mid-back are not considered acceptable because of backbone irritation that can occur with SCBA use. To facilitate individual tailoring needs, the major A & B seams joining the one-piece back to the right and the left front body panels (outer shell and all interior layers) shall be located at the most lateral position when the coat is laid flat for inspection.

Does Your Bid Comply With All Aspects Of This Section?  Yes _____  No _____
22.0 PATTERNING REQUIREMENTS

To assure maximum freedom of movement and reduce kinetic resistance with minimum garment weight and bulk, coat patterning shall include the following features:

- Degree of slope on shoulders shall be no more than 20%.
- Hydraulic Butterfly sleeve patterning having built-in underarm bellow with 85-degree Lift Up Release Action shall be provided to minimize coat hem rise.
- Sleeve attachment shall minimize shoulder lift and allow a full 360 degrees freedom of movement.
- Coat hem rise with overhead reach of both arms not to exceed 4-inch (10.2-cm) maximal extension on properly fitted garments.
- Shell-and-liner retraction at the cuff shall not exceed 1 inch (2.5 cm) when both arms are raised overhead. This helps eliminate wrist exposure.
- 10-inch (25.4-cm) chest over-sizing shall be provided.
- Coat sweep measurements must be consistent with the chest over-size at the hem.
- Reach when measured from cuff to cuff, with coat lying flat, and standard length sleeves extended to each side, shall be provided as detailed below.
- An alteration point at the hem that during manufacture allows the sweep dimension to be adjustable in two-inch (5.0cm) increments

<table>
<thead>
<tr>
<th>Chest Size</th>
<th>Standard Reach</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 in (101.6 cm)</td>
<td>66 in (167.6 cm)</td>
</tr>
<tr>
<td>42 in (106.7 cm)</td>
<td>67 in (170.2 cm)</td>
</tr>
<tr>
<td>44 in (111.8 cm)</td>
<td>68 in (172.7 cm)</td>
</tr>
<tr>
<td>46 in (116.8 cm)</td>
<td>68 in (172.7 cm)</td>
</tr>
</tbody>
</table>

Does Your Bid Comply With All Aspects Of This Section?  Yes _____ No _____

23.0 DRAG RESCUE DEVICE (DRD)

Manufacturer shall supply an NFPA required and certified Drag Rescue Device with each coat. Each strap will be properly labeled with the chest size(s) the Rescue Strap is designed to fit.

Rescue Strap shall be designed in a fashion that it functionally provides a dynamic and articulated action and to eliminate excess strapping material hanging down the back when installed between the garment’s liner and outer shell.

The device shall be constructed using two components: a 1.75” (4.45 cm) Kevlar webbing grab handle; and a free-floating loop of Kevlar rope to go around each of the wearer’s arms/shoulder.

The grab loop shall extend upward and pass through a tunnel of outer shell and pass out through a reinforced slot in the coat outer shell just below the center rear of the collar seam.

The protruding grab loop shall then fold back down and be stored by hook and loop fastener.

The end of the garb loop shall be covered with an outer shell flap sewn below the held in place with hook & loop fastener to reduce the chances of snagging the grab loop by accident.
The Grab Handle shall be constructed of soft and pliable Kevlar webbing meeting the following specifications:

<table>
<thead>
<tr>
<th>Description</th>
<th>100% Kevlar Double Plain Weave</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>1.75” (4.45 dm)</td>
</tr>
<tr>
<td>Thickness</td>
<td>0.064” ± 0.010” (.163 cm ± .0254 cm)</td>
</tr>
<tr>
<td>Tensile</td>
<td>5,000 lb minimum (22.24 kN)</td>
</tr>
</tbody>
</table>

To facilitate comfort and safety the free-floating loop shall be constructed of soft and pliable Kevlar rope meeting the following specifications:

<table>
<thead>
<tr>
<th>Description</th>
<th>100% Kevlar Tubular Plain Weave - Natural</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>.038” (.097 cm)</td>
</tr>
<tr>
<td>Thickness</td>
<td>0.144” ± 0.005” (.366 cm ± .013 cm)</td>
</tr>
<tr>
<td>Tensile</td>
<td>3500 lb minimum (15.57 kN)</td>
</tr>
</tbody>
</table>

Rescue Strap shall be sewn with Kevlar thread

Does Your Bid Comply With All Aspects Of This Section?  Yes _____  No _____

24.0 LINER ATTACHMENT

The completed liner-moisture barrier assembly shall attach by means of four (4) evenly spaced glove snaps to each outer shell front facing to reduce weight, bulk and stiffness. To provide continuous moisture and pathogen protection at the front, the liner shall be positioned so it is sandwiched between the coat front facing and a breathable pathogen shield. The use of zippers or hook and loop fasteners in this area is not allowed due to their added weight, bulk and stiffness.

Liner sleeves shall be attached at the cuff by means of snaps on two (2) sets of Nomex tabbing per liner cuff. The male and female snap parts shall both be located on Nomex tabbing that is sewn to the liner at the cuff. A separate piece of Nomex tabbing shall be sewn to the shell cuff and fashioned as a loop without any snap hardware.

To provide continuous moisture protection and pathogen protection at the neck, the liner shall be positioned so that it is sandwiched between an outer-facing pathogen shield and an inside facing of the specified outer shell material.

Attachment at the neck shall be by means of four (4) glove straps that penetrate only the layer of the attachment strip facing towards the liner, so that metal contact at a wearer’s neckline is completely eliminated.

Does Your Bid Comply With All Aspects Of This Section?  Yes _____  No _____

25.0 COAT CERTIFICATION LABEL ON LINER

The coat certification label on the liner shall be affixed to the inside right body panel of the liner in a fashion to provide an inside liner pocket.
Does Your Bid Comply With All Aspects Of This Section?  Yes _____  No _____

26.0 COAT CERTIFICATION LABEL ON SHELL

The coat label on the shell shall be affixed in a conspicuous location once the liner is removed.

Does Your Bid Comply With All Aspects Of This Section?  Yes _____  No _____

27.0 COLLAR

The collar shall be of layered construction, consisting of a layer of waterproof moisture barrier and a layer of NFPA 1971-certified insulating material, sandwiched between two (2) layers of specified outer shell material. NFPA compliant collars shall be at least 3 inches (7.6 cm) high while CGSB compliant collars shall be at least 4 inches (10.2 cm) high. The design shall incorporate in its patterning a natural contour that will allow proper fit and performance in the standing (upright) or stowed position.

There shall be no vertical or horizontal seams or stitching in the body of the collar. The left outside of the collar shall have a sewn piece of 2-inch x 2-inch (5.0-cm x 5.0-cm) hook fastener tape for chinstrap-to-collar closure. The fastener tape shall be located rearward far enough to allow for the location of a forward mounted microphone tab if so desired. Each collar shall be graded to individual coat sizes.

Does Your Bid Comply With All Aspects Of This Section?  Yes _____  No _____

28.0 CHIN STRAP

The chinstrap shall be of layered construction identical to that of the collar configuration described in the previous paragraphs. Chinstrap shall be of a crescent shaped design with minimum dimensions of: 9 inches (22.5 cm) long across the top corners, 10.5 inches (26 cm) long across the bottom corners, and 3.5 inches (8.75 cm) in vertical height, measured at the center. The leading underside edge of the chinstrap shall have a 4.0-inch-wide (3.8 cm-wide) horizontal strip of loop fastener tape to ensure an adequately adjustable closure and to ensure passage of the Whole Garment Liquid Penetration Test.

Does Your Bid Comply With All Aspects Of This Section?  Yes _____  No _____

29.0 HANG-UP LOOP

An 80-pound (36.3 kg) tear strength hang-up loop shall be provided at the interior collar seam. The loop shall be constructed of triple layers of the specified outer shell material, lockstitched to the coat. Webbing is not acceptable.

Does Your Bid Comply With All Aspects Of This Section?  Yes _____  No _____
30.0 SLEEVES

To prevent stove-piping the sleeves shall be individually graded by coat size and sleeve length. For maximum freedom, the sleeve design shall feature extra full cut one-piece set-in sleeves with built-in bellows. To reduce the chances of possible top seam failure in that high thermal exposure area, the sleeve Major seams shall follow the underside of the arm and shall not cross over the outside of the elbow joint. Sleeve seam and sleeve attachment to coat body in all layers shall be 100% double feld and double stitched for maximum. 

Does Your Bid Comply With All Aspects Of This Section? Yes ________ No ________

31.0 INNER WRISTLET & WATERWELL

Every coat shall feature a minimum 4.5-inch (11.4-cm) long, double-layer knit inner wristlets protected by a flame-resistant and moisture-resistant inner waterwell. The inner wristlet shall be sewn to the thermal liner sleeve end (not to the outer shell). The specified moisture barrier shall form an inner waterwell with an elastic gather sewn to the moisture barrier sleeve end. 

Does Your Bid Comply With All Aspects Of This Section? Yes ________ No ________

32.0 EXTERNAL WRISTLET

Every coat shall feature a 2.5-inch (6.4 cm) long knit outer wristlet, which shall be mounted to the end of each outer shell sleeve to prevent liquid and debris movement up the sleeve between the outer shell and the moisture barrier/ thermal liner assembly.

Does Your Bid Comply With All Aspects Of This Section? Yes ________ No ________

33.0 FRONT CLOSURE PROTECTIVE OVERLAP

Two-inch-wide (5.1 cm-wide) panels of breathable moisture/ pathogen barrier and specified thermal liner materials shall be provided at coat front closure facings to preclude any type of break in the protective envelope. The entire circumference of a closed coat shall consist of specified shell, moisture barrier and thermal liner materials.

An additional layer of breathable moisture/ pathogen barrier material shall be sewn between the 2-inch-wide (5.1 cm-wide) panels and outer shell coat body for the entire length of coat front in a fashion to prevent liquid entry during the NFPA 1971 Whole Garment Liquid Penetration Test.

Does Your Bid Comply With All Aspects Of This Section? Yes ________ No ________

34.0 COMPOSITE MATERIALS

The specifier has determined the ONLY acceptable combination of materials. Any substitution of materials shall be grounds for immediate disqualification of bid without further consideration.

34.1 OUTER SHELL
6.6 osy Twill weave; - Gold

34.2 THERMAL LINING
7.1 oz. calendared 100% spun 3.3 oz. Meta Aramid facecloth; 1 layer of 2.3 oz. E-89, and one layer 1.5 oz. E-89 (Berry Compliant)

34.3 MOISTURE BARRIER
3.2 oz/yd² woven Nomex containing 2% carbon fibers, laminated to a PTFE membrane (Berry Compliant)

Does Your Bid Comply With All Aspects Of This Section?

For Outer Shell: Yes ___ No ___
For Thermal Lining: Yes ___ No ___
For Moisture Barrier: Yes ___ No ___

35.0 COAT CUSTOM OPTIONS TO BE PROVIDED

Instructions in this custom options section that contradict earlier specifications or statements supersede those earlier specifications or statements as long as the required certifications are not compromised.

Std - Coat Cuffs
(O20) Std - Inspection Port Liner
Std - Liner detachable
Std - SET Thermal Enhancement
Std - Liner Label Pocket
(R01) Std - Articulating Rapid Rescue Strap
Std - Take Up Straps - 2 Postman
Std - Trim Double-Stitched
Trim - (4) New York - lime 2-tone Oralite Brilliance (3”)
Hem Patch w/ Velcro - Agility - Gold
FF LAST NAME (1st INITIAL when specified)
Avg. 10 letters
OK to use 2” letters to fit
7 - 3” sewn letters - lime Brilliance
Lettering Applied Directly to Back
W F D or W V F D * no periods
3” sewn letters - lime Reflexite Brilliance
(O17) Embroidered American Flag - stars towards front - right sleeve
(E10) 2” Velcro/Zipper Coat Closure
(Q02) LTO Comfort Chinstrap
Black Knit Material on Comfort Chinstrap
Dead Air Panels
(S44) Easy Move Liner Combo - TL I & - TLB
X-Large Half Hi Bellows Pockets - Agility - Gold - 7 x 9 x 2
Mic Tab - Agility - Gold - on shield (storm flap) - 1 x 3
Place 3” below top of shield
Mic Tab - Agility - Gold - left chest - 1 x 3
Radio Pocket - Agility - Gold - left chest - 6 x 3 x 2
Snap on Radio Pocket Flap - w/ Velcro - left chest
Notch Flap - Double Notches (both left & right) - left chest
2-Sewn D-Ring - Agility - Agility - Gold - 6.6oz - on shield (storm flap)
Place top of fabric 1” below bottom of mic tab
SL-90 Flashlight Clip - Agility - Gold - right chest
Sub Wristlets - Long Hybrid with tabs - Nomex - black
To avoid liability and interface problems, coats and pants shall be procured from the same manufacturer.

36.0  DESIGN CONCEPT (STYLING)

The pant shall be of a traditional waist-high-only design to facilitate full torso ventilation of front, rear and sides of trunk for maximum body cooling effect to help minimize firefighter heat stress. For this reason, other than waist-high pants shall not be considered acceptable or “equal,” since additional trunk wrapping traps heat and moisture, increasing heat stress buildup while also creating mechanical resistance when covering the natural torso flexion point of the waist.

37.0  PATTERNING CONCEPT

Garments shall feature a tailored four-piece body plus a one-piece, over-sized crotch diamond pattern in the outer shell, moisture barrier and thermal liner.

38.0  PATTERNING REQUIREMENTS

To assure maximum freedom of movement and reduced kinetic resistance with minimum garment weight and bulk, the pants patterning shall:

- Incorporate hydraulic, swivel action leg-to-torso interfaces.
- Incorporate an oversized diamond-shaped crotch insert, graded according to size, for maximum action stride, optimum stepping reach and no “in-crotch” seaming.
- In the outer seam hip area, in all three layers shall, incorporate convex seam technology to provide for generous seat expansion when squatting and crawling without creating unsightly bagginess.
- That the diamond extend from just above the left knee to just above the right knee, and be centered equally from front to rear. Width of diamond at top of crotch shall be approximately proportionally graded to waist size and inseam length.
- Ensure that pants rest in normal body line balance of 22 inches (55.9 cm) center distance at the cuff for 42 waist, 30 inseam pants.
- Provide for an alteration point at the hips so that during manufacture the hip dimension can be adjustable in two-inch (5.0cm) increments
39.0 SUSPENDER BUTTONS

Eight (8) heavy duty, rust-resistant suspender buttons shall be positioned around the waist. Suspender buttons shall be mounted through waistband of triple layer outer shell material that is internally reinforced with an additional band of coated needlepunch aramid.

Does Your Bid Comply With All Aspects Of This Section?  Yes ______  No ______

40.0 LINER ATTACHMENT

The moisture barrier and thermal liner assembly shall be attached to the outer shell at the waistband with seven (7) evenly-spaced glove snaps. Liners shall be attached at the cuff by means of snaps on two (2) sets of Nomex tabbing per liner cuff. The male and female snap parts shall both be located on Nomex tabbing that is sewn to the liner at the cuff. A separate piece of Nomex tabbing shall be sewn to the shell cuff and fashioned as a loop without any snap hardware.

Does Your Bid Comply With All Aspects Of This Section?  Yes ______  No ______

41.0 PANT CERTIFICATION LABEL ON LINER

The pant certification label on the liner shall be affixed to the inner left hip area of the liner.

Does Your Bid Comply With All Aspects Of This Section?  Yes ______  No ______

42.0 PANT CERTIFICATION LABEL ON SHELL

The pant label on the shell shall be affixed to the facing at the fly.

Does Your Bid Comply With All Aspects Of This Section?  Yes ______  No ______

43.0 FLY FRONT

The outer shell fly shall be lockstitched to the left side of the front opening and shall be in proportion to waist size and crotch rise in both length and width. Fly inner lining shall extend at least 2 inches (5.1 cm) to the left of the outer shell fly attachment seam and shall be constructed of certified breathable moisture barrier and thermal liner. The right front pant opening shall have an internal facing extending at least 2 inches (5.1 cm) to the right and constructed of specified fabric. In combination with the liner, the system shall offer 360-degree protection without gaps during movement of the outer shell moisture barrier and thermal liner. Closure shall be by means of a minimum 1.5-inch-wide (3.8-cm-wide) hook and loop fastener, and all construction techniques used shall provide liquid penetration protection under the NFPA 1971 Whole Garment Liquid Penetration Test. The fly shall be graded to the waist size of garments and crotch rise.
Does Your Bid Comply With All Aspects Of This Section?  Yes ______  No ______

44.0  COMPOSITE MATERIALS

The specifier has determined the ONLY acceptable combination of materials. Any substitution of materials shall be grounds for immediate disqualification of bid without further consideration.

44.1  OUTTER SHELL
6.6 osy Twill weave; - Gold

44.2  THERMAL LINING
7.1 oz. calendared 100% spun 3.3 oz. Meta Aramid facecloth; 1 layer of 2.3 oz. E-89, and one layer 1.5 oz. E-89 (Berry Compliant)

44.3  MOISTURE BARRIER
3.2 oz/yd2 woven Nomex containing 2% carbon fibers, laminated to a PTFE membrane (Berry Compliant)

Does Your Bid Comply With All Aspects Of This Section?

For Outer Shell:  Yes ______  No ______
For Thermal Lining:  Yes ______  No ______
For Moisture Barrier:  Yes ______  No ______

45.0  PANT CUSTOM OPTIONS TO BE PROVIDED

Instructions in this custom options section that contradict earlier specifications or statements supersede those earlier specifications or statements as long as the required certifications are not compromised.

(O21) Std - Inspection Port Liner
Std - Liner Detachable
Std - Trim Double-Stitched
Trim -(7) NFPA -lime 2-tone Oralite Brilliance (3")
(J08) Wide Fly - Zipper/ 2" Velcro-No Hook & Dee
(O03) Angled Cuffs - Arashield - Black
Pant Cuffs - Arashield - Black
BiFlex Heat Channel Knees - Agility - Gold
Horizontal Strips in BiFlex knees to be Arashield - Black
Take Up Straps - 2 Postman - Agility - Gold
Bellows Pockets - Agility - Gold - 9 x 9 x 1.5
Snap Style Suspenders Attachment
Exterior Harness Pants -No Harness
Dyna-Fit Suspenders w/ Snap Attach & Quick Adjust Installed
Suspender Padding

Does Your Bid Comply With All Aspects Of This Section?  Yes ______  No ______
• Any violation in the terms of this bid document by the bid winner during the bid period, will terminate the contract for the remaining term of the bid upon written notice from the Town of Winchester Purchasing Director.

Exceptions to the bid:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

Name: ___________________________ Date: ______________

Signature: _______________________
MORNING PRIDE
BID FORM

Local Bidder Preference
See Appendix I for Town Ordinance

Price per set of turnout gear per year, price to include delivery; $_________________

Company name and mailing address:
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

Phone #_________________________  Fax #_________________________

Signature of authorized representative: ________________________________

Signature typed out: ________________________________

Dated: ________________________________

--------------------------------------------------------------------------------------------------------------------------

Representative must sign bid proposal.
Mark outside of sealed envelope BID ON, Turnout Gear
Appendix I

Sec. 147.13a Local Vendor Preference

A. For all bids and quotes submitted for purchases, exceeding $3,000 but less than $1,000,000.00, any qualified and registered local vendor who has submitted a bid or quote not more than 5% higher than the lowest qualified bid or quote will be awarded the contract or purchase order, subject to any limiting provision of this Ordinance, so long as such local vendor agrees to provide the supplies, materials, equipment, commodities and or services which are the subject of such contract or purchase order at the same price as the lowest qualified bid or quote received. In the event that more than one local vendor submits a bid or quote not more than 5% higher than the lowest qualified bid or quote, the award shall be to that local vendor originally submitting the lowest qualified bid or quote.

B. For purposes of this section, a qualified and registered local vendor is defined as one who maintains a principal place of business within the Town limits of Winchester by occupying real property in which to conduct such business or by paying personal property taxes on business property to the Town of Winchester. Evidence of the maintenance of such principal place of business may include the ownership or long-term lease of real estate from which the principal place of the business is operated or the payment of property taxes on the personal property of the business to be used in the performance of the bid.

C. The Town Manager shall prepare a local vendor registration form and shall have it made available to all local businesses. When such a form has been properly completed and filed by a local vendor with and approved by the Town Purchasing Agent, such local vendor shall be qualified and registered local vendor in the Town for purposes of this section.

D. This section shall not apply in any situation where the preference created by this section would violate Federal or state law or any existing contracts.