



## **INFORMATIONAL MEMORANDUM**

**TO: Public Safety Committee**

**FROM: Eric Drever, Chief of Police**

**CC: Mayor Ekberg**

**DATE: September 1, 2022**

**SUBJECT: Contribution to Valley SWAT Armored Vehicle Purchase**

### **ISSUE**

The Valley SWAT Team requires the purchase of an armored vehicle to allow safe covert ingress and egress from situations involving armed suspects.

### **BACKGROUND**

Tukwila is partnered with the Valley SWAT Team for providing a specialized response to highly dangerous incidents involving armed suspects. Tactics for transporting SWAT Team members into and out of the range of suspects' targeting involve the use of armored vehicles. The Valley SWAT team currently has armored vehicles called "BearCats" that are deployable in an overt response to threats. This vehicle is a military-style vehicle that looks like a police armored vehicle. They also have a carrier that is being refitted to allow for safer armored transportation in a more covert capacity. However, the SWAT Team needs a carrier that can carry more team members at once and need the ability to deploy two teams simultaneously in a covert fashion. Therefore, a second covert armored van is required to allow for more efficient and safer SWAT operations.

### **DISCUSSION**

Because of the high cost of an armored vehicle, not all Valley partnered agencies have the financial capacity to contribute towards the purchase of an armored vehicle for the team. Tukwila has state seizure funds available, allowing for the capacity to take on a larger portion of the purchase of the armored SWAT vehicle. These funds have restricted use, and the armored vehicle falls within the guidelines of the restrictions. Tukwila's larger contribution will allow for the vehicle to be purchased, which otherwise would have a financial shortfall.

### **FINANCIAL IMPACT**

Tukwila Police Department would like to contribute \$100,000.00 of state seizure funds towards the purchase of the armored vehicle. State seizure funds must have a nexus to drug enforcement to be an authorized purchase. Where Valley SWAT is utilized to serve drug-related warrants, this purchase falls within the restrictive expenditures. Typically, Tukwila will use its state seizure funds for training and equipment for the TAC Team (Tukwila's drug enforcement team). However, over the last three years, the team has not been fully staffed, and at the beginning of 2022, was merged with the Major Crimes Unit to assist with the follow-up investigation of felony crimes. As a result, the funds are not being expended at the usual rate and funds are available to contribute the \$100,000.00. Future operating and maintenance costs will be absorbed by the Valley SWAT regional budget.

**RECOMMENDATION**

We are requesting approval from Council to allow the \$100,000.00 expenditure from the state seizure fund to contribute towards the purchase of the Valley SWAT armored vehicle and have the approval to move forward to the September 19, 2022 Council consent agenda.

**ATTACHMENTS**

Armored vehicle quote  
Armored vehicle specifications



**Price Quote**

**Department/Agency:** City of Ederalway Police Department

**Contact Name:** Charlie Hinckle

**Email:** [Charlie.Hinckle@cityoffederalway.com](mailto:Charlie.Hinckle@cityoffederalway.com)

| <b>Item</b>   | <b>Price</b> | <b>Quantity</b> | <b>Total</b> |
|---|--------------|-----------------|--------------|
| Ford Transit Van 350HD Extended ,High Roof Tactical Van, 3.5L EcoBoost V6, Auto, AWD (NIJ III Level Vehicle Armoring) | \$136,850.00 | 1               | \$136,850.00 |
| <b>Included Options</b>   |              |                 |              |
| Vehicle Color: Grey   | Included     | 1               | Included     |
| Battery and ECM Protection  | Included     | 1               | Included     |
| Fuel Tank Protection  | Included     | 1               | Included     |
| Upgraded HD Hinges  | Included     | 1               | Included     |
| Wire mesh installed in tailpipe   | Included     | 1               | Included     |
| Breaching Tool Storage  | Included     | 1               | Included     |
| Red/White Interior Dome Light   | Included     | 3               | Included     |
| Bench Seating Configuration with 2 Point Seatbelts  | Included     | 1               | Included     |
| Rear Door has Custom Door Stops to Lock at 90 Degrees   | Included     | 1               | Included     |
| Interior Grab Rails   | Included     | 1               | Included     |
| Mounts for Rear Compartment Privacy Curtain   | Included     | 1               | Included     |
| Rear Compartment A/C and Heater   | Included     | 1               | Included     |
| HD Tires  | Included     | 7               | Included     |
| <b>Additional Options</b>   |              |                 |              |



# INTERNATIONAL ARMORED GROUP US, Inc.

5840 US1 HWY S, Saint Augustine, Florida, 32086

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|  |            |          |                     |
|--|------------|----------|---------------------|
| Undercover Law Enforcement Light Package (Whelen Siren/Light Controller, (4) LED Hide-Away Lights, (1) 100 Watt P/A Speaker) | \$2,350.00 | 1        | \$2,350.00          |
| Run-Flat Inserts, (Spare included)   | \$500.00   | 7        | \$3,500.00          |
|  |            |          |                     |
| Note: Sales Tax Not Included   |            |          |                     |
|  |            |          |                     |
| <b>Total Price</b>   |            | <b>1</b> | <b>\$142,700.00</b> |

\* All prices are FOB St. Augustine, FL, please note sales tax has not been included.

\*\*Please note this quote is open-market, non-GSA. Purchases made through the GSA schedule are subject to a GSA Industrial Funding Fee equal to 0.75% of \$100 value. The GSA IFF fee is remitted to the GSA Schedule and not retained by IAG.

**Delivery Terms:** 180 Days After Receipt of Chassis.

**Validity:** Prices are valid for 60 days.

**Prepared By:** Alex Wilson

**Date:** 3/9/22



# INTERNATIONAL ARMORED GROUP

**Custom Armored Vehicle Manufacturer**



(Vehicle may not be exactly as shown)

## **Technical Specification for Armored Ford Transit – Tactical Van**

# **INTERNATIONAL ARMORED GROUP**

**Custom Armored Vehicle Manufacturer**

## **TECHNICAL SPECIFICATION**

### **ARMORED FORD TRANSIT VAN**

#### **SPECIFICATION:**

**IAG FORD TRANSIT GAS AUTO LWB/HIGH-ROOF NIJ III**

**This specification outlines the design modifications to be applied to the above mentioned vehicle in order to convert this vehicle to a protective armored vehicle.**

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## **2.0 Base Vehicle Details – FORD TRANSIT 3.5 Liter Gas Extended High-Roof**

**(OEM features may vary depending upon availability at time of order)**

- 3.5 L Gas (310 hp and 400 lb-ft.)
- AWD
- Extended wheel base
- 6-speed automatic heavy-duty transmission
- Brakes, 4-wheel antilock, 4-wheel disc
- High roof
- Power steering
- Air conditioning (front & rear)
- Medium pewter, vinyl seat trim
- 16" steel wheels
- Audio system, CD player



### **3.0 Armoring Details**

#### **3.1 Opaque Armor and body**

- Five sided armoring of passenger compartment using certified ballistic steel plating to defeat high-powered rifle fire, .308 @ 2,750 fps. (Meets or exceeds NIJ III, see Ballistic Specifications in section 4.0)
- Floor is fitted with steel blast protection to protect occupants against fragmentation from simultaneous detonation of 2 DM-51 German ordnance hand grenades or equivalent.
- Armoring included on kick panels, front fenders, rear wheel wells, firewall, door pillars and posts.
- Armor consists of welded certified ballistic grade steel construction.
- The vehicle frame, constructed of certified ballistic grade steel, provides overlap and backup protection for the large-surface principal impact areas such as the doors and windows. It also reinforces the structural integrity of the pillars and other areas that are typically ignored or poorly armored by other manufacturers.
- Vehicle armoring shall be constructed in such a way as to ensure that a projectile following a linear or angled path shall not enter the vehicle's interior without contacting the armor material. In addition to this, the possibility of a projectile entering the vehicle's interior due to a ricochet from the armor shall also be minimized.
- Ballistic steel used in the opaque armoring areas will be constructed using CNC laser cutting and CNC bending technology, which allow for near perfect precision with an average of 0.002 inches of processing tolerance



### 3.2 Transparent Armor

- All original cab portion glass shall be replaced with either curved or flat-panel ballistic glass, or any combination of the two at the manufacturer's discretion, which maximizes visibility and efficiency as well as minimizes operational maintenance costs.
- A combination of glass, Polycarbonate and Mylar are bonded together using the latest technology, producing one of the finest transparent Armors available while incorporating the following:
  - Meets or exceeds NIJ III ballistic protection, (see section 4.0 for ballistic specifications).
  - Finest optical quality offers minimal distortion.



### 3.3 Doors

- Original cab doors will be armored from inside to maintain appearance and minimize maintenance issues involved with re-tooling of original body components.
- If the side door is sliding then there shall be an armored swing out door behind it. As a second option, armoring can be directly placed on the OEM side sliding door.
- Armoring shall be placed directly on the rear doors.
- Reinforced pillars & door hinges on all doors to cope with the weight of the armoring
- Dual HD nylon door straps to reduce hinge wear at front & side passenger compartment doors. Armor overlap at all doors to prevent penetration through door posts and pillars.
- Door pillars reinforced for maximum strength retention.
- Handles are reinforced to provide longer life in rugged environments.
- Rear doors are equipped with door stoppers and can lock open in several positions

### 3.4 Electrical

- All standard electrical equipment of this vehicle shall be tested and modified as necessary to protect against the armoring process.
- Additional electrical accessories installed (such as rear lighting if required by client) shall be installed by qualified personnel and shall use automotive grade electrical wiring in protective looms to ensure durability and ease of maintenance.

### 3.5 Interior

- All original OEM interior panels and trim in the cab area will be resized or modified and re-installed wherever possible to obtain as close to an original look as possible.
- The passenger seating area shall be custom made by IAG to sit up to 8 passengers, plus driver and 1 co-driver. Exact seating can be determined based on client preference at time of contract signing.
- Rear of the vehicle shall be equipped with an additional A/C and heat system
- Rear of the vehicle shall be separated by a pull curtain if required



### **3.6 Brakes**

- International Armored Group undertakes to provide a superior handling vehicle as an alternative to most vehicles in the industry. To this end we upgrade the braking systems as necessary for improved performance and safety.

### **3.7 Suspension**

- Along with the improved braking systems, International Armored Group alters the suspension components of all vehicles to provide added safety, and improved performance and handling of the finished armored vehicles.
- Vehicle is equipped with custom heavy duty suspension system that includes:
  - Front HD Shocks
  - Front HD Coil Springs
  - Rear HD Shocks
  - Rear HD Rubber Bushings
  - Rear HD Leaf Springs
  - Rear HD Sway Bar

### **3.8 Tires and Run Flats**

- All vehicle tires shall be equipped with run flat inserts capable of operating for 50km at 50km/hr after the tires are punctured. The certified run flats used by IAG have been proven as reliable by clients worldwide in a variety of unique operating environments.
- IAG Standard configuration includes a run flat installed in the spare tire.
- IAG also offers an optional run flat upgrade and heavier tire combination which maintains higher load capacities and runs cooler than standard units. This guarantees improved performance in the event that the vehicle tires become disabled.

### **3.9 Other Features**

- Vehicle tire jack (upgraded if necessary to lift additional weight of armor) & tire iron.
- Steel protection over fuel tank.
- Ballistic protection for engine ECM unit and battery.
- Wire mesh installed in tailpipe to prevent insertion of foreign objects.
- All manuals and written information provided by vehicle manufacturer shall be included.
- All armoring completed by experienced technicians.

### 3.10 Weights

- The centre of gravity in a vehicle of this nature is high when compared to that of an unarmored equivalent, thereby making vehicles such as this inherently less stable than commercially available units. While suspension upgrades have been engineered to offset this effect, care must be taken in handling any armored vehicle. It is strongly recommended that drivers are specifically trained to handle the vehicle with the increase in weight load and change in centre of gravity position.

### 4.0 Ballistic Specifications

The following table represents the ballistic protection levels for the above mentioned vehicle for both transparent and opaque armor: (Level NIJ III).

**Opaque Armor:** Armored passenger compartment roof and 4 sides. Floor of passenger compartment is protected to shield against fragmentation from simultaneous detonation of 2 DM-51 German ordnance hand grenades or equivalent.

| NIJ Standard - 0108.01 BALLISTIC RESISTANT PROTECTIVE MATERIALS |   |                    |                     |                         |                          |                                  |
|---|---|--------------------|---------------------|-------------------------|--------------------------|----------------------------------|
| ARMOR TYPE  | WEAPON  | TEST AMMUNITION    | NOMINAL BULLET MASS | SUGGESTED BARREL LENGTH | REQUIRED BULLET VELOCITY | REQUIRED HITS PER ARMOR SPECIMEN |
| I   |  | 22 LRHV            | 2.6 g               | 15 to 16.5 cm           | 320 ± 12 m/s             | 5                                |
|   |   | Lead               | 40 gr               | 6 to 6.5 in             | 1050 ± 40 ft/s           | 5                                |
| II-A  |  | 38 Special         | 10.2 g              | 15 to 16.5 cm           | 259 ± 15 m/s             | 5                                |
|   |   | RN Lead            | 158 gr              | 6 to 6.5 in             | 850 ± 50 ft/s            | 5                                |
| II  |  | 357 Magnum         | 10.2 g              | 10 to 12 cm             | 381 ± 15 m/s             | 5                                |
|   |   | JSP                | 158 gr              | 4 to 4.75 in            | 1250 ± 50 ft/s           | 5                                |
| III   |  | 9 mm               | 8.0 g               | 10 to 12 cm             | 332 ± 12 m/s             | 5                                |
|   |   | FMJ                | 124 gr              | 4 to 4.75 in            | 1090 ± 40 ft/s           | 5                                |
| III-A   |  | 44 Magnum          | 15.55 g             | 14 to 16 cm             | 425 ± 15 m/s             | 5                                |
|   |   | Lead SWC           | 240 gr              | 5.5 to 6.25 in          | 1400 ± 50 ft/s           | 5                                |
| III   |  | Gas                | 8.0 g               | 24 to 26 cm             | 426 ± 15 m/s             | 5                                |
|   |   | Checked 9 mm FMJ   | 124 gr              | 9.5 to 10.25 in         | 1400 ± 50 ft/s           | 5                                |
| IV  |  | 7.62 mm            | 9.7 g               | 56 cm                   | 838 ± 15 m/s             | 5                                |
|   |   | 308 Winchester FMJ | 150 gr              | 22 in                   | 838 ± 15 m/s             | 5                                |
| IV  |  | 30-06              | 10.8 g              | 56 cm                   | 838 ± 15 m/s             | 1                                |
|   |   | AP                 | 166 gr              | 22 in                   | 2850 ± 50 ft/s           | 1                                |

## **5.0 Warranty**

International Armored Group warrants any armor related items installed, and conversion related custom workmanship, for one year, or 36,000 miles. whichever comes first. Any suspected warranty related work must first be confirmed as being necessary by means of technical consultation with a representative of International Armored Group. Coverage applies to the original vehicle owner only. Technical consultation regarding any repairs or malfunctions is available by telephone during our normal operating hours.

Warranty work to be directly covered by International Armored Group shall be performed locally only after assessment and authorization by International Armored Group. International Armored Group shall, upon consultation and approval, make payment for any/all repairs deemed to be of a reasonable nature by our management and engineering department.

International Armored Group does not cover any OEM vehicle parts and components that have not been modified or preformed work on during the armoring process. Such parts and components are the sole responsibility of the client and the vehicle OEM.

International Armored Group assumes no responsibility for damages incurred through vehicle misuse or abuse, negligence, accidental damage, or any unauthorized modifications or alterations made to the vehicle following delivery of the vehicle to the client. Under the terms of this limited warranty, International Armored Group. shall in no way be held liable for any incidental or consequential damages arising from loss of use or time, inconvenience, or commercial loss resulting from the need for warranty work. This warranty covers the repair and/or replacement of warranty related items only, and any non-warranty related additional costs incurred remain the responsibility of the client.

Accessories not directly related to the armoring process (winches, lighting, shields, etc.) shall be covered by the warranties of their respective manufacturers, and are not included in the warranty coverage provided by this agreement. However, although International Armored Group does not warrant these items directly in any way, we do agree to offer any reasonable assistance in obtaining servicing from their companies of origin. Should there be any undue difficulties with obtaining servicing of these accessories; International Armored Group will also agree to replace them for the client at our current wholesale cost price. The client shall remain responsible for any/all shipping and handling fees or incidental costs associated with the replacement of such items, as well as the aforementioned replacement cost.