

# **STATE OF SOUTH CAROLINA – STANDARDIZED VEHICLE SPECIFICATIONS**

(Revised 8/8/19)

## **Introduction:**

The following specifications are applicable if they are listed as “Factory Installed Items” (included in the “Base Price”) or “Option Equipment” (Add or Deduct Pricing). If they are not referenced by the spec item name (example: “Tow Package”) in the individual vehicle spec, they do not apply.

Should it be necessary to deviate from a standard spec, the deviation(s) will be expressly stated within the individual vehicle spec. The individual vehicle spec takes precedence over the standardized vehicle spec. Unless defined otherwise in an individual vehicle’s specification, the following standardized specifications apply where applicable and as listed in each vehicle spec.

## **Important Notice:**

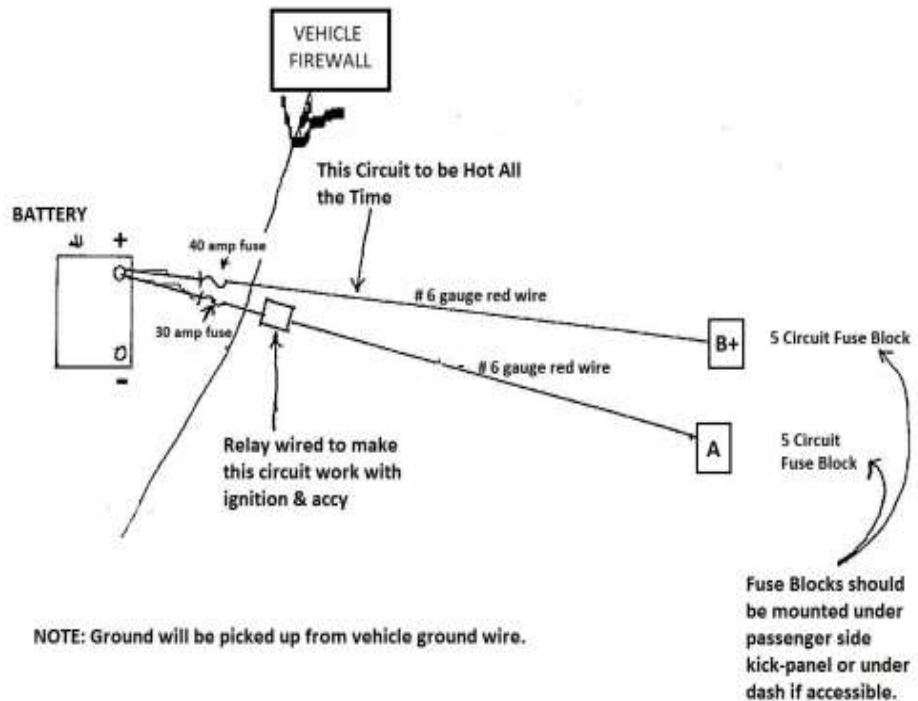
Contractors/vendors should review purchase orders carefully for items such as drawbar, pin, clip and shank configuration, as well as anything else needing further description for the order, as provided in the contract documents. They should notify the ordering governmental entity when needed information is missing. This office will require delivery of all specified items unless the ordering governmental entity provides specific notice of relief from same in writing. **These type items are to be included in the contract prices.**

<b><u>Specification Name</u></b>	<b><u>Description</u></b>
<b>Auxiliary Power Connection</b>	<p>A factory-installed, two-wire power connection shall be provided in the engine compartment.</p> <ul style="list-style-type: none"><li>➤ If the specified connection is not offered by the manufacturer, said connection may be installed by an up-fitter.</li><li>➤ Documentation of non-availability from the manufacturer is to be obtained from the manufacturer and included in the bid submittal.</li></ul> <ul style="list-style-type: none"><li>• The circuit shall be a minimum 5-amp fused with a minimum 14 gauge automotive-grade cable.<ul style="list-style-type: none"><li>➤ The circuit shall operate with the ignition switch in the “Accessory” or “On” position and shall include one red wire for ignition and one blue wire for accessory.</li></ul></li><li>• <i>The purpose of the power connection is to allow installation of additional high amperage accessories.</i></li><li>• <i>Note that on most individual vehicle’s specs, this item is considered an optional add-on. Be sure to review each individual vehicle spec carefully.</i></li></ul>
<b>Auxiliary Power Connection – DNR Specification</b>	<p>Department of Natural Resources (DNR) requires a significantly different Auxiliary Power Connection on select vehicles. The specifications below apply whenever the option “Auxiliary Power Connection – DNR Specification” is listed on a contract sheet, and subsequently selected on a purchase order.</p> <ul style="list-style-type: none"><li>• Minimum two (2) 40-amp circuits that provide 12-volt connection for the installation of additional high amperage equipment.</li><li>• The circuits shall provide:<ul style="list-style-type: none"><li>➤ A two (2) wire harness with 6awg wire that includes one (1) wire powered when ignition switch is in the Accessory position and the ON position through a heavy-duty relay;</li></ul></li></ul>

- One (1) wire powered from the battery with 12 volts dc continuously.
- Both wiring harnesses shall be connected to the battery with a 40-amp fuse with 6awg wire and run inside to the passenger area (kick panel or under dash accessible to connect wires), with a 5-circuit fuse block and labeled to identify the circuit (battery, INC/ACCY).
  - To avoid circuit failure by exposure to excessive heat in the engine compartment, the relay should also be inside the vehicle in this area if possible.
  - This installation will allow for additional high amperage body equipment output such as, but not limited to: blue lights, radios, computers, work lights, pumps, and motors.
- The switch may be factory, dealer, or approved up-fitter installed.

**NOTE: All non-factory installations of this item shall be tied into the chassis electrical system as specified by the vehicle manufacturer. Dealers and up-fitters are to carefully coordinate same with the vehicle manufacturer. The contractor guarantees all work associated with this item that is not covered by the vehicle's manufacturer warranty for the same specified time and usage as the vehicle's manufacturer warranty.**

#### **DNR AUXILIARY POWER CONNECTION DIAGRAM**



<b>Colors – Exterior</b>	<p>The cost for all factory-standard “no-charge” paints and factory-standard paint palette colors for additional charges, shall all be factored into the vehicle price as contracted.</p> <ul style="list-style-type: none"> <li>• The State will not pay any additional color charges, unless a non-standard/premium color is requested by the purchasing agency.</li> <li>• The colors white, black, gray and silver are all required colors for state contract pricing.</li> </ul>
<b>Daytime Running Lights</b>	<p>If standard equipment, daytime running lights are to be made inoperable prior to delivery of vehicles purchased by and for law enforcement entities.</p>
<b>Engines - Diesel</b>	<p>For Diesel-powered vehicles and equipment, fuel system components and Diesel engines shall be compatible with B20 bio-diesel blends, minimum.</p>
<b>Engines – Gasoline/Unleaded/E10</b>	<p>For gasoline-powered vehicles and equipment, fuel system components and gasoline engines shall be compatible with E10 ethanol blends, minimum. These engines are to perform as follows:</p> <ul style="list-style-type: none"> <li>• No noticeable degradation in vehicle drivability;</li> <li>• Minimal impact on vehicle operating efficiency (defined to be no more than 10% decrease in fuel economy);</li> <li>• Maintenance sensors and warning systems are to display normally (i.e. use of E10 is not to cause the check engine light to illuminate).</li> </ul> <p><b>NOTICE:</b> The State of South Carolina has transitioned to the E10 Unleaded Fuel Blend. The fuel contracts reflect the same.</p>
<b>Floor Mats</b>	<p>Unless stated otherwise in the individual vehicle specifications, the following applies:</p> <ul style="list-style-type: none"> <li>• In vehicles with <u>carpeted</u> flooring, the manufacturer’s vehicle-specific floor mats are to be supplied for all major seating points of the vehicle.</li> <li>• If a manufacturer is unable to supply floor mats for carpeted vehicles (i.e. due to specific vehicle packages), equivalent (in quality and fit) aftermarket mats must be provided for all major seating points.</li> <li>• In vehicles with <u>vinyl or heavy-duty rubber flooring</u>, floor mats are <b>not</b> to be provided, and may not be requested by the ordering governmental entity.</li> </ul> <p><b>NOTICE:</b> Should an individual vehicle’s specifications with carpeted interior request rubber or vinyl floor mats, those mats will be of a high quality, heavy duty construction.</p>
<b>Four-wheel Drive (4x4) &amp; All-Wheel Drive (AWD)</b>	<p><b>4x4 Definition:</b> The State of South Carolina recognizes the definition of a 4x4 (four-wheel drive)-equipped vehicle as follows:</p> <ul style="list-style-type: none"> <li>• The vehicle is primarily rear-wheel drive, and equipped with locking differentials, low-range gearing, and is controlled by transfer case.</li> </ul>

	<ul style="list-style-type: none"> <li>• Power distribution is not distributed/vectored alternately between wheels by the vehicle computer.</li> <li>• The 4x4 system can be selected for 4x2/rear wheel drive, low, and high settings on part-time 4x4 vehicles (either by lever or electronic selection).</li> <li>• Full-time 4x4 vehicles do not have computer-controlled power vectoring to the wheels but may allow for low and high range selection.</li> </ul> <p><b>4x4 Package:</b> For vehicles equipped with 4x4 as defined above, the State requires the following to be provided on said vehicle:</p> <ul style="list-style-type: none"> <li>➤ Transfer case with auto locking hubs (operator may lock hubs without leaving the cab).</li> <li>➤ Factory installed protection for fuel cell and transfer case. Protection must be adequate to prevent puncture to either system.</li> <li>➤ Locking or limited slip differential or electronic traction control.</li> <li>➤ Suspension – all changes recommended by the manufacturer for 4x4 operation to be provided and completed.</li> <li>➤ All-terrain tires</li> </ul> <p><b>All-Wheel Drive (AWD) Definition:</b> The State of South Carolina recognizes the definition of an AWD-equipped vehicle as follows:</p> <ul style="list-style-type: none"> <li>• The vehicle computer controls the amount and timing of power distribution/vectoring to each of the wheels.</li> <li>• The driver does not have the ability to completely eliminate the computer's control of power distribution (variable mode options of an AWD system does not classify a vehicle as 4x4 instead of AWD).</li> <li>• The vehicle is typically always readily engaged in an All-Wheel Drive power distribution, whether or not the computer has selected all wheels to receive power at any given moment.</li> </ul> <p><b>AWD Package:</b> The State requires AWD vehicles to be fully equipped with all warranty-necessary suspension and protective devices as defined by the manufacturer.</p> <p><b>NOTICE:</b> The State of South Carolina does not consider AWD to be equivalent to 4x4. Therefore, AWD will not be accepted as a substitute for 4x4. Refer to individual vehicle specifications to determine if a vehicle must be either 4x4 or AWD, or if either option is acceptable for the individual vehicle spec.</p>
<b>Head Restraints</b>	<p>All outboard seating positions shall have factory installed head restraints via head rests or high back seats. The head restraints shall meet all requirements of US Department of Transportation, National Highway Traffic Safety Administration, and Federal Motor Vehicle Standards.</p> <p><b>NOTICE:</b> If head restraints are not available, the contractor shall provide each ordering governmental entity notification from the manufacturer verifying that head restraints are not available. If head restraints are available from the manufacturer as an optional item, they must be included in the offer and incorporated into the base price of the vehicle.</p>
<b>Keys</b>	<p>Three (3) ignition-capable (and programmed) keys and two (2) fobs/remotes are to be provided for each vehicle delivered.</p>

	<ul style="list-style-type: none"> <li>• The two (2) fobs/remotes are only required if the vehicle is equipped with power locks.</li> <li>• For manufacturers whose keys are an integrated key/fob, three (3) fully functional (ignition-capable) integrated key/fobs are required.</li> <li>• Cost for the key and fob sets are to be included in the base price.</li> </ul>
<b>Pickup Box Removal and Lamp Detection</b>	Trucks provided with a pickup box removal shall have lamp detection turned “Off” to allow exterior turn signal lights and interior audible and/or visual turn signal indicators to work properly.
<b>Privacy Glass -- Extended &amp; Crew Cab Pickups, Cargo &amp; Passenger Vans, Utility Vehicles</b>	<p>If “Privacy Glass” is required as part of the individual vehicle spec (or as an add-on item), for a qualifying vehicle class as defined below, the State of South Carolina defines privacy glass and its applicable vehicular location as:</p> <ul style="list-style-type: none"> <li>• Deep tint not to exceed factory standard option shading:</li> <li>• Only applicable to glass aft of the B pillar for the specifically defined vehicle classes within this spec.</li> </ul> <p><b><u>Qualifying Vehicles:</u></b></p> <ul style="list-style-type: none"> <li>• Extended and crew cab pickups</li> <li>• Cargo and passenger vans</li> <li>• Utility Vehicles – which are specifically on state contracts defined for SUVs</li> <li>• Crossovers</li> <li>• State contract law enforcement vehicles</li> </ul> <p><b>NOTICE:</b></p> <ul style="list-style-type: none"> <li>• Sedans, exclusive of law enforcement contracts, do not qualify for privacy glass.</li> </ul>
<b>Radio Noise Suppression</b>	<p>Governmental fleet vehicles may have an approximate 150-watt mobile (two-way) radio installed, operating on the frequencies of 44-47 MHz as designated by the FCC (CFR 47, Part 90).</p> <p>To anticipate possible installation of such radio equipment, the vehicle shall be fully compatible with the above radio installation and all vehicle components and equipment shall not interfere with the operation (transmitting or receiving) of the mobile radio.</p>
<b>Rear View Camera Systems (All vehicles under 10,000 GVWR)</b>	<p>Vendor shall provide an installed rear view camera system complete with camera, cabling, and hardware meeting requirements of Federal Motor Vehicle Safety Standards (FMVSS) 111 Standard for rear vehicle visibility.</p> <p>The rearview camera system shall provide a compliant image from a factory standard screen. If available and not already standard, the ability to upgrade to an in-dash monitor shall be allowed through the cost + 10% charge when requested by the purchasing agency.</p>

<p>Step Bar – Entry/Egress</p>	<p><b><u>Definitions:</u></b></p> <ul style="list-style-type: none"> <li>• <b>Door threshold</b> – point of the vehicle where the driver &amp; passengers place their foot upon entering the cabin.</li> <li>• <b>Step Bar</b> – shall be a 3” diameter bully single, extended, or double step bar, or equivalent. <i>The bar must have a minimum weight capacity of 250 lbs. and must be of metal construction.</i></li> <li>• <b>Running board</b> – an elongated platform step that measures no less than six inches deep and must be installed to allow entry and egress from all side doors (including driver’s as measures dictate). <i>The board must have a minimum weight capacity of 250lbs.</i></li> </ul> <p><b><u>Method of Measurement:</u></b> From level ground (not including curbing), measure the vertical clearance from the ground to the threshold for each passenger and driver entry door as defined above.</p> <p><b><u>Spec for Vans (including Cutaways):</u></b></p> <ul style="list-style-type: none"> <li>• <u>Running boards</u>, as defined above, are required <u>at all doors where</u> the ground-to-threshold clearance exceeds <b>19”</b>.</li> <li>• The astern rear door is exempt from this spec.</li> <li>• <i>Please be sure to measure all entry points, particularly on redesigned or new models, to prevent rejection at time of delivery and inspection. <u>Note that tire &amp; wheel changes could affect measurements – be sure to check for such changes on new model years.</u></i></li> </ul> <p><b><u>Spec for Pickups &amp; Large Trucks:</u></b></p> <ul style="list-style-type: none"> <li>• <u>Step bars</u>, as defined above, are required <u>at all doors where</u> the ground-to-threshold clearance exceeds <b>21”</b>.</li> <li>• For vehicles with extended, quad, or crew cabs (no matter the manufacturer’s marketing description), an extended length or double step bar shall be installed that services the entry and egress for all doors.</li> <li>• <i>Please be sure to measure all entry points, particularly on redesigned or new models, to prevent rejection at time of delivery and inspection. <u>Note that tire &amp; wheel changes could affect measurements – be sure to check for such changes on new model years.</u></i></li> </ul> <p><b><u>Spec for Utilities (SUV &amp; Crossover):</u></b></p> <ul style="list-style-type: none"> <li>• <u>Running boards</u>, as defined above, are required when any passenger (including driver) door’s ground-to-threshold clearance on a utility vehicle exceeds <b>21”</b>.</li> <li>• The running board shall cover the length of the rocker panel from the forward point of the front doors, to the rearward point of the rear passenger doors.</li> <li>• The astern rear door/hatch is exempt from this spec.</li> <li>• <i>Please be sure to measure all entry points, particularly on redesigned or new models, to prevent rejection at time of delivery and inspection. <u>Note that tire &amp; wheel changes could affect measurements – be sure to check for such changes on new model years.</u></i></li> </ul> <p><b>NOTICES:</b></p>
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	<ul style="list-style-type: none"> <li>• In all cases, overall manufacturer-desired ground clearances must be maintained.</li> <li>• All step bars and running boards shall be the type that are customarily manufactured and marked to be used as steps (not décor).</li> <li>• Step bars must be black powder coated and certified for a minimum weight capacity of 250lbs.</li> <li>• Running boards should be black in color. Molded plastic running boards (OEM or aftermarket) are acceptable, so long as they are certified to a minimum weight capacity of 250lbs.</li> <li>• Steps are not required for astern rear doors/hatches on vans or utilities.</li> </ul>
<b>Tires</b>	<p>Tires are to be mounted with black walls turned to the outside.</p> <ul style="list-style-type: none"> <li>• All tire walls with contrasting colors such as white, red, raised white lettering, etc. are to be turned and mounted to the inside.</li> <li>• The ordering governmental entity may reject delivery if black walls are not turned to the outside.</li> </ul> <p><u>Spare Tires:</u></p> <ul style="list-style-type: none"> <li>• Vehicle specs indicating the requirement of a spare tire (full or temporary) shall also be supplied with a vehicle manufacturer-approved jack and lug wrench.</li> <li>• Vehicle specs indicating <u>full</u> size spare tires shall be equipped with spares that are <u>equivalent</u> to the vehicle's installed tires as delivered to the State.</li> <li>• <u>Law Enforcement Vehicles:</u> <u>ALL</u> Law Enforcement vehicles shall be equipped with full size spares that are <u>identical</u> to the installed tires as delivered to the State.</li> </ul>
<b>Tow Package</b>	<p><b><u>State of South Carolina Tow Package:</u></b></p> <p>Factory installed hitch plus all necessary components to match or exceed the maximum rated towing capacity of the vehicle are to be included.</p> <ul style="list-style-type: none"> <li>• Wiring will be completed to include all necessary components to utilize both 4-way and 7-way wiring harnesses.</li> <li>• Standard configuration for drawbar, ball, pin, and clip: <ul style="list-style-type: none"> <li>➤ Standard is the DNR specification below, unless otherwise stated by the ordering governmental entity.</li> <li>➤ Department of Natural Resources (DNR) configuration is: drawbar with 2" drop, pin, clip, and 2" ball w/ 1" solid shank.</li> </ul> </li> </ul> <p><b><u>NOTICES:</u></b></p> <ul style="list-style-type: none"> <li>• This spec applies when: <ul style="list-style-type: none"> <li>➤ A governmental agency specifically requests the tow package as part of the vehicle order, or</li> <li>➤ The individual vehicle spec includes the tow package as required/standard equipment.</li> </ul> </li> <li>• If the drawbar, pin, clip, and shank configuration is inadvertently omitted from a purchase order (i.e. "tow package" was the only description provided on the PO), it does not relieve the contractor of the requirement</li> </ul>

	<p>to provide the standard configuration above, or as outlined in the individual vehicle specifications.</p> <ul style="list-style-type: none"> <li>• If a vendor's vehicle is provided factory-equipped (factory standard) with the hitch assembly, the vendor does <u>not</u> have to supply the standard configuration of the State of South Carolina tow package (wiring, drawbar &amp; ball) when: <ul style="list-style-type: none"> <li>➤ The ordering governmental entity has not requested the tow package as part of the purchase, or</li> <li>➤ The individual vehicle spec does not require the tow package as a standard/base item for the contract.</li> </ul> </li> </ul>
<b>Winch</b>	<p>The standard specification winch is as follows:</p> <ul style="list-style-type: none"> <li>• Warn model Zeon 12 (89120)</li> <li>• Electric</li> <li>• Front Mount</li> <li>• 12,000lb. capacity, with roller fairlead (5742)</li> <li>• 80' cable</li> <li>• Grille guard with center horizontal bar and mounting bracket</li> </ul> <p><b>NOTICES:</b></p> <ul style="list-style-type: none"> <li>• The mounting bracket must not extend below the height of the front bumper.</li> <li>• The winch package may be installed by the contractor/factory, or an approved up-fitter.</li> </ul>
<b>Vehicle Up-fits – Unapproved / Not Ordered</b>	<p>If a vendor <u>chooses</u> to fulfill an order with dealer stock / retail units that were up-fitted beyond factory-standard/equipped accessories (i.e. tow package, bed liner, toolboxes, satellite radio, navigation, etc.), but not requested by the ordering governmental entity, the vendor may <u>not</u> petition the ordering governmental entity for reimbursement of the up-fit(s).</p>

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End of Standard State Specifications.

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FY20 Vehicle Specification

Van 10 - Gasoline, Full Size 3500/350 10-12 Passenger Van, High Roof (Vehicles compared for spec: 2019 Ford Transit 350, 2020 Mercedes-Benz Sprinter 3500)

NOTE: Vendors must complete all blocks highlighted in BLUE below. Failure to complete ALL blocks highlighted in BLUE may deem your offer non-responsive.

Vendor Name:

Vic Bailey Ford

Vendor-suggested Model Name and Model Number:

Ford X2X Transit 350 Wagon XL

Base Price:

\$34,552.00

NOTE: If Add/Deduct is included in the base price enter \$0.00 in the BLUE cell below and indicate "standard" in the GREEN cell. Use the GREEN cell below also to indicate whether an Add or Deduct requires an additional Add or Deduct. Be Specific.

Measures & Capacities	Requirement	Required Equipment	Requirement	Additions	Add-on Amount	Add Comments
Build/Body Style	Passenger Full Size Van	All federally-required safety components	Required	Aux. Power Connection (state std. spec.)	\$160.00	asd
Doors - Min. #	4 - Driver, Passenger, Sliding Passenger Side Access, Hinged Rear	Must contain all components as retail base model	Required (unless otherwise stated)	Aux. Power Outlet	\$0.00	Standard Feature
Engine - Fuel Type	Regular Unleaded	Colors	See State Std. Spec.	Bluetooth/Hands Free Calling	\$0.00	Standard Feature
Engine - Liters	Factory Std.	Factory-Std. Solar Glass	Required	Privacy Glass (state std. spec.)	\$676.00	asd
Engine - Min. Horsepower	Factory Std.	Air Conditioning	Required, including rear air & heat			
Engine - Min. Torque (ft.lbs.)	Factory Std.	AM/FM Stereo Radio	Required			
Fuel Capacity	Factory Std.	Body Glass	All Sides & Rear			
Keys	3 (see std. specs)	Cruise Control w/Resume	Required			
Passengers - Min./Max. #	10 / 12	Floor Mats	N/A			
Transmission Type	Automatic	Flooring	Vinyl			
Vehicle Cargo Volume Min. Cu. Ft.	110	Intermittent Wipers	Required			
Vehicle Height - Minimum (in.)	107	Power Brakes	Required			
Vehicle Length - Min./Max. (in.)	233/239	Power Door Locks w/Keyless Entry	Required			
Vehicle Payload - Minimum Lbs.	2000	Power Driver Seat	No (Unless standard)			
Vehicle Wheelbase - Min./Max	143/149	Power Side Mirrors (Passenger & Driver)	Required	Deductions	Deduct Amount	Add Comments
GVWR - Minimum Lbs.	8950	Power Steering	Required	None		
		Power Windows	Required			
		Radio Noise Suppression	Required (see std. specs)			
		Rear Window Defroster	No (Unless standard)			
		Rearview/Backing Camera	Required			
		Running Boards/Steps	Required (state std. spec.)			
		Seating Configuration	Factory Standard			
		Seating Construction	Vinyl			
		Spare Tire	Full Size w/jack			
		Tilt & Telescoping Steering Column	Required			

DELIVERY INFORMATION		
	Distance from Dealership to SFM Delivery Point (In Miles)	10
	Amount of Base Price Allocated to Delivery to SFM	\$20.00
This field will automatically populate from the Delivery Information entered above.	Price Per Mile Contractor May Charge	\$2.00
Enter the days ARO in the BLUE cell	DAYS ARO:	90

PRICE CALCULATIONS (These cells automatically populate)		
Base Price:	\$34,552.00	
Total of All ADDS:	\$836.00	
25% of all ADDS:	\$209.00	
Total of All DEDUCTS:	\$0.00	
25% of All DEDUCTS:	\$0.00	
Evaluated Amount:	\$34,761.00	ENTER THIS AS YOUR BID IN SCEIS