



STATE OF LOUISIANA  
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT  
TECHNICAL SPECIFICATIONS FOR

**TRUCK, CAB & CHASSIS, 22,000# GVWR, WITH HERBICIDE SPRAYER**

**SERIES NO. 269-000**

**REV. 4/9/2024**

**EQUIPMENT SPECIFICATION 269-000K**

**GENERAL**

This specification sets forth the minimum requirements for a 2wd regular cab class 6 truck (22,000# gvwr) outfitted with an herbicide sprayer.

Equipment shall be new, a production model of current manufacture, and must meet all state and Federal safety and emission standards in effect at time of order.

**REPRESENTATIVE SPECIFICATIONS**

A Ford F600 cab & chassis with a 1,000 gallon spray system, with appropriate options and standard features, was used to develop these specifications and establish equivalency evaluation criteria.

Equipment of similar style, type, character, quality, features, and purpose conforming to the following detailed requirements/specifications will be considered. For evaluation purposes, bidder's proposing an exception/equivalent option/feature to those specified herein, may be required to provide manufacturer/product information (catalogue sheets, detailed specifications, pictures, etc.). This information will be evaluated against the minimum requirements of this specification. Proposed submittals that are determined not to be equivalent to the established criteria will be rejected.

**LOUISIANA AUTHORIZED DEALER(S)**

Proposed item(s) must be from a manufacturer who has at least one (1) authorized dealer or multiple field service technicians that are domiciled **within the State of Louisiana** where parts and service can be obtained. Authorized dealer(s) must have properly trained technicians plus all other resources necessary to perform warranty and repair services in complete accordance with the manufacturer's requirements. A letter certifying the ability to meet this requirement, inclusive of the company name(s) and address(es) of the Louisiana authorized dealer(s), should be supplied with the bid submittal and may be required prior to award.

**DELIVERY & ACCEPTANCE**

Vendor shall perform a test run of each unit to verify that all features and capabilities are operating properly at time of delivery. Documentation of testing may be required prior to acceptance by the Department.

Unit(s) must be delivered completely assembled (including all components, accessories, etc.) and ready for operation without any additional preparation including, but not limited to, ensuring all fluid levels are at their full mark, fuel tank(s) is full, all necessary lubrication has been performed, etc. A Louisiana safety inspection shall be performed on each vehicle prior to delivery and a Louisiana safety inspection sticker properly affixed.



Any unit delivered under this specification is subject to rejection if there is evidence of poor workmanship, by either the vendor or the original manufacturer. Noted defects and/or nonconformance findings may be corrected by the vendor. Corrections must be completed and approved by the Equipment Engineer or his representative prior to final acceptance.

Unit(s) shall be delivered "**on the ground**;" DOTD will not unload nor provide any unloading equipment to the vendor/delivery driver in order to offload the unit(s).

**NOTE:** The Department will have space available for equipment to be unloaded.

**EACH UNIT MUST BE SUPPLIED WITH THE FOLLOWING DOCUMENTATION:**

1. Notarized Bill of Sale
2. Certificate of Origin (MSO)
3. Dealer's Service Policy
4. Owner's/Operator's Manual(s)
  - a. One (1) Hardcopy
  - b. One (1) Digital Copy
    - i. Acceptable Formats: PDF delivered via USB "Flash Drive", or E-mail
5. Service Manual(s)
  - a. One (1) Hardcopy
  - b. One (1) Digital Copy
    - i. Acceptable Formats: PDF delivered via USB "Flash Drive", or E-mail
6. Build Sheet(s) – as applicable
  - a. One (1) Hardcopy
  - b. Build sheets should be writing in plain language (not company specific codes) and include, at a minimum, all standard & optional features of the delivered unit.

**NOTE:** Invoices will not be processed for payment until the unit(s) have been inspected by the Equipment Engineer or their representative and deemed in compliance with the specifications.

**BID SUBMITTALS**

Any additions, deletions, or variations from the specifications should be noted in the "Bidder's Exceptions" page of this specification. Exceptions that are noted to be less than a minimum requirement will not be accepted.

Any additions, deletions or variations from the manufacturer's standard published specifications should be noted on the "Bidder's Exceptions" page of this specification. Unless otherwise noted, any items appearing in the manufacturer's standard published specifications furnished by the Bidder are assumed to be included in the Bidder's submittal.

Bidder should note on their submittal any installation(s) to the equipment that will be performed by the vendor instead of the manufacturer.

Failure to note any specification exceptions, manufacturer specification alterations, and/or vendor installations prior to award may result in rejection of the equipment at the time of delivery.

**THE NUMBER OF DELIVERY DAYS AFTER RECEIPT OF ORDER (ARO) MAY BE USED AS A FACTOR IN THE AWARD.**

## EQUIPMENT SPECIFICATIONS

### NOTICE TO BIDDERS

Bidder should review the detailed "Equipment Specification" completely and respond to the compliance question at the end of each section by marking "X", in the space provided, for "Yes" or "No". Mark "Yes" to indicate that the equipment bid meets the section exactly as specified. Mark "No" if there are exceptions to any part of that section. Exceptions/deviations to any part of the specification are to be detailed on the "Bidder's Exceptions" page of this specification.

IN ORDER TO BE CONSIDERED FOR AWARD, BIDDER SHOULD RETURN THIS SPECIFICATION, COMPLETED IN FULL, WITH THEIR BID SUBMITTAL.

**Note: All Values listed below are minimums unless noted otherwise.**

### 1. Cab & Chassis

1.1. GVWR: 22,000 lbs.

Comply: \_\_\_ Yes \_\_\_ No

1.2. Frame: 600,000 RBM (Resisting Bending Moment) - Bidder should list section modulus and yield strength below

Section Modulus: \_\_\_\_\_ Yield Strength: \_\_\_\_\_

Comply: \_\_\_ Yes \_\_\_ No

1.3. Cab to axle (CA) and axle to end of frame (AF)

1.3.1. CA: 84"

1.3.2. AF: 79.6"

Comply: \_\_\_ Yes \_\_\_ No

1.4. All steel front bumper and 2 frame mounted tow hooks

Comply: \_\_\_ Yes \_\_\_ No

### 1.5. Cab

1.5.1. Conventional day cab

1.5.2. Tinted safety glass

1.5.3. Cab entry handles, driver & passenger side

1.5.4. Outside mirrors, driver & passenger side

1.5.4.1. Power adjustable

1.5.4.2. Heated

1.5.4.3. Convex spot mirrors

1.5.5. Manufacturer's highest level sound insulation package

1.5.6. 40/20/40 vinyl split bench seat with fold down center console/arm rest

## EQUIPMENT SPECIFICATIONS

**1.5.7. Gauge package including the following:**

- 1.5.7.1. Coolant temperature**
- 1.5.7.2. Fuel**
- 1.5.7.3. Oil pressure**
- 1.5.7.4. Speedometer**
- 1.5.7.5. Tachometer**
- 1.5.7.6. Gear indicator**
- 1.5.7.7. Odometer**
- 1.5.7.8. Trip odometer**
- 1.5.7.9. Auto transmission temperature**

**1.5.8. Dual sun visors**

**1.5.9. Two (2) cup holders, mounted in dash or center console**

**1.5.10. Climate control, including air conditioning, heater, & defroster**

**1.5.11. Power windows & power door locks**

**1.5.12. Tilting and telescoping steering wheel**

**1.5.13. Driver and passenger airbags**

**1.5.14. Running boards/cab entry steps**

**Comply: \_\_\_ Yes \_\_\_ No**

**1.6. Engine & Fuel**

**1.6.1. 6.6 L, diesel, liquid cooled**

**1.6.2. 300 HP, 700 FT-LBS**

**1.6.3. Fuel Tank: 40 gallon min. capacity**

**Comply: \_\_\_ Yes \_\_\_ No**

**1.7. Transmission**

**1.7.1. Automatic, with PTO provision**

**1.7.2. To be filled with manufacturer approved synthetic lubricants**

**Comply: \_\_\_ Yes \_\_\_ No**

**1.8. PTO**

**1.8.1. PTO must be activated by dash mounted factory upfitter switch**

**1.8.2. Indication of PTO engagement should be accomplished by lighted switch or separate dash mounted indicator light**

**Comply: \_\_\_ Yes \_\_\_ No**

**1.9. Front Axle**

**1.9.1. 7,000 lbs. GAWR @ ground capacity**

**1.9.2. Shock absorbers**

**1.9.3. Integral power steering**

**Comply: \_\_\_ Yes \_\_\_ No**

## EQUIPMENT SPECIFICATIONS

### 1.10. Rear Axle

- 1.10.1. 15,000 lbs. GAWR @ ground capacity
- 1.10.2. Shock absorbers
- 1.10.3. Limited slip or locking differential

Comply: \_\_\_ Yes \_\_\_ No

### 1.11. Brakes: Power assist 4-wheel disc brakes with ABS

Comply: \_\_\_ Yes \_\_\_ No

### 1.12. Wheels & Tires

- 1.12.1. 6.75"x19.5", 10 bolt steel wheels
- 1.12.2. First line, first quality tires
  - 1.12.2.1. Front – 245/70R19.5, single highway tread
  - 1.12.2.2. Rear – 245/70R19.5, dual on/off road tread
- 1.12.3. Combined load ratings must to be compatible with axle ratings and GVWR

Comply: \_\_\_ Yes \_\_\_ No

### 1.13. Chassis Electrical System & Lights

- 1.13.1. 12-volt system
- 1.13.2. Dual alternators, 397 amps
- 1.13.3. Dual batteries with 750 CCA combined
- 1.13.4. Battery disconnect switch, located inside cab, near driver's seat, similar to the picture below.



- 1.13.5. Four (4) dash mounted, rocker-style, factory installed, body circuit switches (upfitter switches) for simple on/off functions for accessories (PTO, warning lights, etc.; one (1) assigned to activate the PTO; one (1) assigned to operate the flashing warning lights; one (1) assigned to enable the convenience lighting circuits, and one (1) blank to be assigned by DOTD personnel.

#### 1.13.6. Headlights:

- 1.13.6.1. Automatic daytime running lights
- 1.13.6.2. Automatic on with low ambient light levels

## EQUIPMENT SPECIFICATIONS

- 1.13.6.3. Warning buzzer/alarm when headlight switch is on and ignition switch is in off position
- 1.13.7. Roof mounted clearance marker lights
- 1.13.8. Cruise control
- 1.13.9. Intermittent windshield wipers with washers
- 1.13.10. Self-cancelling directional signals
- 1.13.11. Backup alarm, 97 dba
- 1.13.12. Backup camera
- 1.13.13. AM/FM radio with auxiliary front input, Bluetooth/hands free function and steering wheel controls
- 1.13.14. 110V power outlet
- 1.13.15. Two (2) 12V accessory power outlets with covers, mounted in dash (for cell phone chargers, GPS devices, etc.). One (1) 12V power outlet and one (1) USB charging outlet will also satisfy this requirement.
- 1.13.16. Factory trailer brake controller

Comply: \_\_\_ Yes \_\_\_ No

### 1.14. Paint

- 1.14.1. Cab: Manufacturer's standard, white
- 1.14.2. Chassis: Manufacturer's standard, black

Comply: \_\_\_ Yes \_\_\_ No

### 1.15. FMCSA/DOT Mandated Safety Items

- 1.15.1. One (1) UL listed, 5 B:C rated, or higher, fire extinguisher securely mounted in cab
- 1.15.2. One (1) set of three (3) bidirectional reflective triangles conforming to FMVSS No. 125
- 1.15.3. At least one (1) spare fuse for each type/size used in the truck

Comply: \_\_\_ Yes \_\_\_ No

## 2. Herbicide Sprayer & Safety Lighting/Striping

- 2.1. The sprayer unit shall consist of stainless steel nozzles capable of applying chemicals for the following vegetation management applications:
  - 2.1.1. Tank mix application of selective type herbicides or foliar applications to control brush made across the right-of-way up to a width of 25'.
  - 2.1.2. Spot application of herbicide to shoulder edges of pavement, curb and gutters, signs, culvert ends, bridge abutments, and narrow or wide medians.

Comply: \_\_\_ Yes \_\_\_ No

### 2.2. Spray Head

- 2.2.1. The unit shall be equipped with one (1) boomless, air induction spray head mounted on the right front corner of the front bumper, and be easily transferrable to the left for spraying medians.
- 2.2.2. The spray head shall have a minimum of 5 individual sections with no less than 15 nozzles located in a fixed position, supplying a spray swath of 25' at 10 MPH to insure a streak-free swath that does not alter due to wear.

## EQUIPMENT SPECIFICATIONS

- 2.2.3. Swath widths of 5', 5', 5', 5', and 5' will be achieved with a combination of flat fan and straight stream nozzles.
- 2.2.4. Flat fan nozzles must be attached to brass or stainless steel (plastic is not acceptable) air injectors to provide large droplets and reduce drift.
- 2.2.5. The spray head shall be up/down tiltable from the cab for embankment spraying. A 2 1/2" liquid-filled pressure gauge shall be mounted in view of the operator to insure easy monitoring of the system.
- 2.2.6. The spray head pedestal shall be mounted on an adjustable break socket to avoid damage to the spray head if contacted by an obstruction.
- 2.2.7. All tips and/or plumbing (except hoses) shall be stainless steel or brass.
- 2.2.8. No plastic or ceramic tips will be allowed.
- 2.2.9. The tips in the spray head shall be sized for an application rate of 25 GPA @ 10 MPH.

Comply:  Yes  No

### 2.3. Fittings

- 2.3.1. All fittings shall be brass or stainless steel, or black schedule 80 polypropylene.
- 2.3.2. No galvanized or nylon fittings shall be acceptable.
- 2.3.3. All nozzles shall be stainless steel or brass and machined to provide the various spray patterns as required to distribute the spray solutions in the most efficient and safe manner possible.

Comply:  Yes  No

### 2.4. Water Tank

- 2.4.1. The tank shall be an elliptical leg shaped 1,000 gallon capacity unit.
- 2.4.2. The tank shall be UV stabilized black polyethylene.
- 2.4.3. The tank shall be secured to a chassis mounted flatbed with four (4) heavy duty, galvanized tubular steel bands.
- 2.4.4. The base plate for each band shall be constructed with bolts that pass through the flatbed deck and bed cross member.
- 2.4.5. The bands shall provide adequate support for continuous off road operation.
- 2.4.6. The tank lid shall be a minimum 16" diameter, positive locking type with an air vent to prevent damage from excessive pressures or vacuum.
- 2.4.7. 1 1/2" ball valve installed at each end of the tank as close as possible to the tank bottom. Suction shall be closest to the cab (lower end) and return on the opposite end to ensure proper agitation.
- 2.4.8. The hose between the tank and the water pump shall be 1 1/2" non-collapsible suction type.

Comply:  Yes  No

### 2.5. Truck Bed & Tank Support

- 2.5.1. 1" X 3/16" welded steel grating. Minimum load capacity 1,029 lbs. per square foot when placed over a 2' span. Floor joists on approximately 18" centers, steel stake pockets. A 2.0' X 5.0' X 10 gauge galvanized plate is to be used in each wheel well area, to be installed under the grating with the leading edge 2.0' forward of centerline of axle. Mud flap brackets are to be a permanent part of the body. Entire body to be hot dipped galvanized after fabrication. Sprayed on type coatings are not acceptable.

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- 2.5.2. The bed shall be a minimum of 8' X 12' dimensions.
- 2.5.3. The bed shall have a headache rack and contain safety lighting as per the attached safety lighting requirements section.
- 2.5.4. The bed shall have all LED stop and running lights and reflectors installed per Federal highway specifications.
- 2.5.5. The bed shall have mud flaps.
- 2.5.6. Minor surfaces of the bed that cannot be galvanized shall have two (2) coats of primer, two (2) coats of industrial black paint.

Comply:  Yes  No

### 2.6. Sign Panel

- 2.6.1. The sign panel size shall be 30" vertical X 60" horizontal.
- 2.6.2. The sign panel shall be constructed of aluminum and shall be adequately framed and braced for transporting and when erected for operation.
- 2.6.3. There shall be twenty-five (25) PAR 46 LED amber lamps arranged and wired to produce the following indications when flashing. The lamp shall be 12-volt and shall have visors that extend at least 5" beyond the lamp face and that encompass 180 degrees or more of the lamp circumference.
- 2.6.4. The lamps shall provide a minimum legibility distance of one mile.
- 2.6.5. Maximum overall height shall not exceed 10'
- 2.6.6. The sign panel shall be powered by the truck electrical system.
- 2.6.7. The sign controller shall be an electronic unit mounted in the cab. The control panel of the controller shall have an on-off switch selector, selector for various display modes, and a manual "bright-dim" lamp intensity adjustment. All active components shall be solid state.

Comply:  Yes  No

### 2.7. Spray Pump System

- 2.7.1. The main system shall have a hydraulically driven centrifugal pump (Hypro 9303S-HM1C or equivalent) powered by a pressure and flow compensated load sensing hydraulic system.
- 2.7.2. The system will be sized to drive the water pump and spray system in excess of the required flows and pressures when the truck engine is operated at 1,000 RPM.
- 2.7.3. The hydraulic pump must be a variable displacement piston pump driven "live" from the truck transmission.
- 2.7.4. The "on-off" control switches for sprayer pump will be located in the cab control center.
- 2.7.5. Sprayer pump speed control will be a manually adjustable flow control valve installed between hydraulic pump and the drive motor.
- 2.7.6. A 2 1/2" liquid filled pressure gauge for easy viewing to adjust water pump speed control.
- 2.7.7. A hydraulic reservoir with 30 gallons capacity will be included and have a suction strainer, return filter, sight gage, filler breather and cut-off ball valve in the return suction lines.
- 2.7.8. Mounting location for the reservoir will be below the flat bed in an area that allows easy access.

Comply:  Yes  No



## EQUIPMENT SPECIFICATIONS

### 2.8. Quick Fill System

- 2.8.1. There shall be a 2" air gap quick fill system mounted in the top of the tank lid.
- 2.8.2. A 2" ball valve and "Y" strainer with a male quick disconnect and dust cap shall be installed on the right hand side of the truck bed.
- 2.8.3. A 2" X 25' quick disconnect fire hose with standard 2 ½" fire hydrant female swivel shall be mounted by the fill system for easy access.

Comply:  Yes  No

### 2.9. Fresh Water Supply

- 2.9.1. A fresh water supply source (9 gallon polyethylene tank)
- 2.9.2. ¾" cut off valve shall be truck mounted with the cut off valve under the truck bed.
- 2.9.3. This supply is for washing hands and to rinse equipment when loading chemical

Comply:  Yes  No

### 2.10. Plumbing and Filters

- 2.10.1. All hoses (except where stated) shall be of 150 PSI operating pressure.
- 2.10.2. All plumbing and filters shall be brass, stainless or polypropylene construction, sized and placed to complete the operation of the unit.
- 2.10.3. A 1 ½" 20-mesh strainer shall be placed between the tank and spray pump and a 1" 40-mesh strainer shall be placed on the pressure side of the pump.
- 2.10.4. Placement of plumbing and filters shall allow easy access for cleaning and repairs.

Comply:  Yes  No

### 2.11. Application Control System (without injection)

- 2.11.1. The computerized control system shall be a Mid-Tech, Tee Jet TASC 6100 or approved equivalent.
- 2.11.2. The system shall contain a flow meter, auto range valve and speed sensing equipment necessary to automatically maintain the preset gallons per acre.
- 2.11.3. It shall be mounted on a swivel device to allow operation from either the driver or passenger side of the vehicle.
- 2.11.4. It shall automatically control gallons per acre (boomless air induction heads, flexible boom extension, or handgun) within a range of plus or minus 2% of the preprogrammed rates.
  - 2.11.4.1. System Display
    - 2.11.4.1.1. Vehicle actual and simulated test speed – up to 15 MPH
    - 2.11.4.1.2. Distance traveled in feet and miles
    - 2.11.4.1.3. Total area sprayed in acres and the width of each spray section
  - 2.11.4.2. Control Console
    - 2.11.4.2.1. The console shall be no greater in size than 9" X 16".
    - 2.11.4.2.2. It shall contain all switches for the spray head tilt (up-down) and swing (in-out), beacon lights, water pump on/off, boom valves
    - 2.11.4.2.3. The console shall control a 5 valve TeeJet electronic ball valve manifold or equivalent

## EQUIPMENT SPECIFICATIONS

- 2.11.4.2.4.** No solenoid valve manifold system will be accepted.
- 2.11.4.2.5.** No hard wiring to the console shall be accepted.
- 2.11.4.2.6.** All wiring shall be adequate to safely carry maximum amperage required by the system units.
- 2.11.4.2.7.** All wiring shall be of a standard code and color for each model unit.
- 2.11.4.2.8.** All wiring schematics shall be identical from vehicle to vehicle.
- 2.11.4.2.9.** All fuses shall be centrally located in the cab and identified as to what each one controls.

Comply:  Yes  No

### 2.12. Chemical Jug Emptying Tank

- 2.12.1.** The unit shall be equipped with one (1) 30 gallon or smaller polyethylene cone-type chemical holding tank with a 16" opening lid.
- 2.12.2.** The tank shall be mounted into the bed as close to the edge as to allow jug emptying from ground level.
- 2.12.3.** The chemical tank shall be plumbed for easy draining of chemical into the suction line before the centrifugal pump.
- 2.12.4.** The tank shall have a shut off valve as close to the bottom of the tank as practical to close off flow once the chemical is added to the main tank.
- 2.12.5.** The tank shall include a Chem-Blade Original or equivalent to open, empty and rinse 2.5gal chemical jugs.
- 2.12.6.** The rinse system plumbing shall be plumbed to receive a garden hose for fresh water to rinse the jugs.

Comply:  Yes  No

### 2.13. Handgun and Hose Reel

- 2.13.1.** The unit shall be equipped with one manual hose reel (Hanney 15141718 or equal), with a minimum of 100' of ½" X 600 PSI spray hose and with a #43 spraying systems handgun or equivalent.
- 2.13.2.** The hose reel shall be equipped with a shut-off valve.

Comply:  Yes  No

### 2.14. Safety Lighting and Striping

- 2.14.1.** Truck must be delivered with warning lights & high visibility, reflective conspicuity tape installed in accordance with these specifications and the illustrated layout below.
- 2.14.2.** Warning lights shall be installed by an upfitter who is experienced in and regularly engages in the installation of automotive electronics & warning lights. Installer shall use vehicle & lighting manufacturers' guidance along with industry best practices and techniques to ensure that lights are installed in a safe and neat manner.
- 2.14.3.** All wiring and cables should be logically routed, secured, and protected with convoluted loom where possible. Rubber grommets shall be used where wires and cables penetrate any cab panels, body panels, or chassis structure. All cab and body penetrations shall be adequately sealed to prevent water from entering.
- 2.14.4.** All warning lights must be controlled by a single in-cab, dash-mounted upfitter switch. The switch must be labeled to read "Warning Lights".
- 2.14.5.** Installer must contact the DOTD Equipment Section prior to programming to confirm intended flash pattern(s).

## EQUIPMENT SPECIFICATIONS

- 2.14.6. Mid-size Light Bars - Three (3) mid-size (24") light bars that satisfy the following requirements, mounted to the cab protector (See label #1 in picture below)**
- 2.14.6.1.** SoundOff Signal nRoads Mid-Size or equal
  - 2.14.6.2.** Length is nominal and +/- 1" is acceptable.
  - 2.14.6.3.** Dual color - 12 diodes per module (equal number of green & amber)
  - 2.14.6.4.** All pods/modules must be capable of fully displaying both colors.
  - 2.14.6.5.** Flash pattern must be capable of alternating between an asymmetric, low frequency, "wig-wag" pattern and a low-frequency double or quad flash.
  - 2.14.6.6.** UV resistant clear polycarbonate lens
  - 2.14.6.7.** 10-16 VDC
  - 2.14.6.8.** Light bars shall meet all applicable federal/state laws and regulations
  - 2.14.6.9.** Shall be SAE J845 360-degree Class 1 certified
- 2.14.7. Perimeter Lights - Four (4) perimeter lights, front mounted at grill level (See label #2 in picture below)**
- 2.14.7.1.** Brooking Industries M16 surface mount perimeter lighthouse or equal
  - 2.14.7.2.** Size: Length: 4.5-5.5 in., Height: 1.0-2.0 in., Depth: 0.3-0.5 in.
  - 2.14.7.3.** 12-24 VDC
  - 2.14.7.4.** UV resistant clear polycarbonate lens, black bezel trim
  - 2.14.7.5.** 16 diodes, dual color, equal number of green & amber (interleaved 8x8)
  - 2.14.7.6.** Lighthouse must be capable of displaying each color across full length
  - 2.14.7.7.** Capable of alternating between an asymmetric, low-frequency, "wig-wag" pattern and a low-frequency double or quad flash
  - 2.14.7.8.** Lighthouse shall meet all applicable federal/state laws and regulations
  - 2.14.7.9.** Shall be SAE J595 Class 1 certified
- 2.14.8. Two (2) 6" rear facing oval lights mounted under backup lights. (See label #4 in picture below)**
- 2.14.8.1.** 6" L x 2 1/4" W , recessed, grommet, snap-in mount, LED
  - 2.14.8.2.** Polycarbonate lens
  - 2.14.8.3.** Dual color – half amber, half green
  - 2.14.8.4.** Must be capable of double or quad flash pattern
  - 2.14.8.5.** 12-24 VDC, with plug-in connector
  - 2.14.8.6.** Shall be SAE J595 Class 2 certified
- 2.14.9. Side Lights - Four (4) perimeter lights, two mounted on each side along the bed (See label #6 in picture below)**
- 2.14.9.1.** Brooking Industries M16 surface mount perimeter lighthouse or equal
  - 2.14.9.2.** Size: Length: 4.5-5.5 in., Height: 1.0-2.0 in., Depth: 0.3-0.5 in.
  - 2.14.9.3.** 12-24 VDC
  - 2.14.9.4.** UV resistant clear polycarbonate lens, black bezel trim
  - 2.14.9.5.** 16 diodes, dual color, equal number of green & amber (interleaved 8x8)
  - 2.14.9.6.** Lighthouse must be capable of displaying each color across full length
  - 2.14.9.7.** Capable of alternating between an asymmetric, low-frequency, "wig-wag" pattern and a low-frequency double or quad flash
  - 2.14.9.8.** Lighthouse shall meet all applicable federal/state laws and regulations
  - 2.14.9.9.** Shall be SAE J595 Class 1 certified

## EQUIPMENT SPECIFICATIONS

### 2.14.10. High Visibility Reflective Tape (See label #5 in the picture below)

2.14.10.1. DOT C2 approved high visibility reflective conspicuity tape, 2" wide, with alternating 6" segments of red and white, shall be placed along the length of the bed on both sides of the truck.

2.14.10.2. High visibility conspicuity tape, 2" wide, with alternating 6" segments of red and white, shall be placed on the rear of the body on the bumper.



Note: This image is only represents location for safety items on a truck and not the truck in the specifications

Comply: \_\_\_ Yes \_\_\_ No

## EQUIPMENT SPECIFICATIONS

### 2.15. Tool Box

- 2.15.1.** A tool box with a minimum of 18" X 18" X 24" shall be securely mounted under the bed of the unit, with lockable hasp, weatherproof and of the mentioned size.

Comply: \_\_\_ Yes \_\_\_ No

### 3. Manuals/Training

- 3.1.** The supplier shall provide one printed version and one electronic version of the Operators' manual for the truck.
- 3.2.** The supplier shall provide one printed version and one electronic version of the Operators' manual for the herbicide spray bed.
- 3.3.** The supplier shall provide one printed version and one electronic version of the parts manual for the herbicide spray bed.
- 3.4.** Installation shall be completed at the supplier's location. It shall be the responsibility of the supplier to insure that all unit items are properly located and installed.

Comply: \_\_\_ Yes \_\_\_ No

### 4. Warranty

- 4.1.** Minimum of 12 months on total unit. Warranty repairs to be made at user location or vendor will make arrangements to pick up and return unit.

Comply: \_\_\_ Yes \_\_\_ No

