

HANOVERTOWNSHIP

**EMERGENCYSERVICESRESCUEVEHICLEANDEQUIPMENT
TOCOMPLYWITHTHEHANOVERTOWNSHIP
SPECIFICATIONSANDREQUIREMENTS**

June19,2013

**HANOVERTOWNSHIP
250SouthRoute59
Bartlett,Illinois,60103
(630)837-0301**

INDEXOFDOCUMENTS

- 1. NOTICETOBIDDERS**
- 2. GENERALCONDITIONSANDINSTRUCTIONSTOBIDDERS**
- 3. VEHICLEANDEQUIPMENTSPECIFICATIONS**
- 4. BIDPROPOSALFORM**
- 5. CERTIFICATIONOFVENDOR/BIDDER**

NOTICE TO BIDDERS

Hanover Township (the "Township") is accepting sealed bids for a new emergency services rescue vehicle, with chassis of a 2012 or newer Ford F-350 Superduty, dual rear wheel, 4-door crew cab, and all options, features, and equipment set forth in the Township's General Conditions, Instructions to Bidders, and Specifications attached thereto (the "Bid Documents") for use by the Township's Emergency Services department. Copies of the Bid Documents may be obtained from the Township Clerk, Katy Dolan Baumer, at 250 South Route 59, Bartlett, Illinois, 60103; phone (630) 837-0301. The Bid Documents will be available to interested parties after 9:00 a.m. on June 19, 2013.

All bidders must be engaged in the manufacture of rescue apparatus, must have been in operation for a minimum of twenty (20) years, and must be a member of the Fire Apparatus Manufacturers Association and must provide certificate of membership.

Sealed bids on forms furnished by the Township will be accepted at the above stated Clerk's Office, 250 South Route 59, Bartlett, Illinois, 60103, Attention Katy Dolan Baumer, Township Clerk, until 4:00 p.m. on Monday, July 1, 2013, at which time said bids will be publicly opened and read aloud.

The Township reserves the right to reject any and all bids, accept all or part of a bid, and to waive minor irregularities and nonconformities in any bid when it is in the best interests of the Township. The Township reserves the right to review all bids for a period of thirty (30) days after the bid due date.

/s/Katy Dolan Baumer
Hanover Township Clerk

Published in the Daily Herald on June 19, 2013

GENERAL CONDITIONS AND INSTRUCTIONS TO BIDDERS

I. GENERAL CONDITIONS.

1. Definitions

The following words and phrases, used herein, shall have the meaning ascribed to them as follows:

- A. "Township" or "Owner" shall mean Hanover Township, 250 South Route 59, Bartlett, Illinois, 60103 (the "Township Office").
- B. "Bidder" means each vendor/dealer bidding on supplying the Township with a new emergency services rescue vehicle, with chassis of a 2012 or newer Ford F-350 Superduty, dual rear wheel, 4-door crew cab, and all options, features, and equipment set forth in the Township's General Conditions, Instructions to Bidders, and Specifications attached hereto.
- C. "Successful Bidder" means the Bidder that receives the award for the contract for the supply and delivery of the Vehicle.
- D. "Bid Documents" means and includes: (i) these General Conditions and Instructions to Bidders; (ii) the Specifications; (iii) the Certification of Contractor/Bidder; and (iv) the attached Bid Proposal Form.
- E. Whenever the term "addenda" appears in any of the Bid Documents, it shall be understood to refer to any written or graphic instruments issued prior to the bid opening which modify or interpret the Bid Documents, by additions, deletions, clarifications, or corrections.

Changes or corrections may be made by the Township to the Contract Documents after they have been issued and before the Bid Opening. In such case, a written addendum describing the change or correction will be issued by the Township to all bidders on record. Such addendum or addenda shall take procedure over that portion of the documents concerned, and shall become a part of the Bid Documents.

2. Preparation and Submission of Bid

- A. The Bidder must submit his, her, or its bid on the forms furnished by the Township. All blank spaces on the bid form must be filled in if applicable. The bid proposal must be signed by a person who has the authority to bind the vendor/bidder to the terms of the bid submittal. All signatures and spaces to be completed in ink or typewritten, when applicable. Prices/Costs shall be in United States dollars. Incorrect completion, execution or submission of bids shall be sufficient grounds for rejection of a bid.

- B. Bidders shall attach a copy of any warranties.
- C. All bids shall be submitted in a sealed envelope stating the following information on the face of the envelope:
Bidder's Name, Address, and "Hanover Township Emergency Services Rescue Vehicle".
- D. Bids must be received by the Township Clerk no later than 4:00 p.m. on July 1, 2013, at 250 South Route 59, Bartlett, Illinois, 60103. Bidders shall be responsible for the actual delivery of bids during business hours to the address indicated. It shall not be sufficient to show that the bid was mailed in time to be received before scheduled closing time for bids. Late bids will be rejected and not opened.
- E. Conditional Bids. Qualified bids are subject to rejection in whole or in part.
- F. Authority to Act as Agent. Upon request, the Bidder will provide proof to the Township that the signature on the bid form has the authority to bind the Bidder to the price(s) quoted.
- G. Errors in Bids. When an error is made in extending total prices, the unit bid price will govern. Carelessness in quoting prices or in preparation of bid will not relieve bidder. Erasures or changes in bids must be initial ed.
- H. Withdrawal of Bid. Any Bidder may withdraw or modify his or her bid at any time prior to the scheduled closing time for receipt of bids. However, only telegrams, letters or other written requests for modifications or corrections of a previously submitted bid which are addressed in the same manner as the bid, and are received by the Township prior to the scheduled closing time for receipt of bids, will be accepted. The bid, when opened, will then be corrected in accordance with such written request, provided that the written request is contained in a sealed envelope which is plainly marked "Modification of Bid on the Hanover Township Emergency Services Rescue Vehicle".
- I. The Bidder shall provide a name, address, and phone number of one contact person who will be responsible for implementation of the total package bid and coordinating inspection of the vehicle and equipment by the Township mechanic and Emergency Services department staff.

3. Examination by Bidder

The Bidders shall, before submitting a bid, carefully examine the Bid Documents. If the bid is accepted, the Bidder will be responsible for all errors in its bid resulting from its failure or neglect to strictly comply with these instructions. The Township will not, in any case, be responsible for any change in anticipated profits or any unanticipated losses resulting from such failure or neglect.

4. Minimum Qualifications

- A. The manufacturers shall be prime bidder and shall identify the location of their facility.
- B. Bids are requested from responsible manufacturers who are engaged in the manufacture of rescue apparatus. To insure reliable and complete acceptance of the apparatus, bidder shall have been in operation for a minimum of twenty (20) years in the manufacturing of fire apparatus and must be a member of the Fire Apparatus Manufacturers Association and must provide certificate of membership. NO EXCEPTION TO THIS REQUIREMENT.

5. Basis of Award

- A. Award, Rejection or Negotiation of Bids. The bid will be awarded to the lowest responsible and responsive Bidder complying with all the provisions of the Bid Documents, provided the bid price is reasonable and it is in the interest of the Township to accept it expressly subject to the inspection and approval contingency by the Township provided below and in the Bid Notice. The Township reserves the right to reject any or all bids received whenever such rejection is in the best interest of the Township. The Township also reserves the right to reject the bid of a Bidder who (a) has previously failed to perform properly or complete on time contracts of a similar nature, (b) when investigation shows that the Bidder is not in a position to perform the contract, (c) is delinquent on any state or federal taxes, and/or (d) is barred from bidding on this contract or any other contract pursuant to 720 ILCS 5/33E-3 and 720 ILCS 5/33E-4, or any of them.
- B. The Township reserves the right to reject any or all bids and to waive or not to waive any irregularities, informalities or variances therein, or to accept any bid considered by the Township to be in the best interest of the Township.

6. Acceptance of Bid

The Township reserves the right to review all bids submitted for a period of thirty (30) days after the bid due date, and by submitting a bid, the Bidder agrees that the amount specified in its bid shall remain in full force and effect for such thirty (30) day period. No Bidders shall modify, withdraw, or cancel its bid, or any part thereof, for thirty (30) days after said bid due date, and no attempted modification, withdrawal, or cancellations shall be valid.

7. Collusive Bidding

The Bidder shall certify that his, her, or its bid is made without any previous understanding, agreement of connection with any person, firm, or corporation making bid for the same project; without prior knowledge of competitive prices; and in all respects fair, without outside control, collusion, fraud or otherwise illegal action (complete the attached Certification of Contractor/Bidder form).

8. Material Inspection and Responsibility

Materials, the style, make or quality of which is specifically designated, shall be as specified. Should any substitution of material or item of equipment or apparatus be made, the Township's written approval must be obtained prior to the Township's acceptance of the vehicle and equipment, which the Township may withhold in its sole and absolute discretion.

9. Insurance

- A. Each bidder must submit with their bid proposal a Certificate of Insurance listing the proposed manufacturer's product liability insurance coverage. Liability insurance shall be a minimum amount of ten (10) million dollars. Submitted Certificate shall name the apparatus manufacturer, insurance company, policy number, and effective dates of the insurance policy. Bids submitted without the required Certificate will be considered non-responsive and automatically rejected. No exceptions are allowed to the minimum insurance coverage requirement.
- B. The manufacturer shall maintain full insurance coverage on the cab and chassis from time of first possession by the manufacturer until the apparatus is delivered and accepted by the Township (No Exceptions). The Township reserves the right to require proof of insurance from the manufacturer's insurance carrier prior to entering into a contract for the apparatus.

10. Delivery Date

The vehicle and equipment must be available for inspection by the Township within 120 days of the vendor/bidder being notified that it submitted the lowest conforming bid meeting Specifications, and the bidder/vendor must convey good title to the vehicle and equipment free of any liens upon the Township's acceptance and payment for the vehicle and equipment.

11. Acceptance

The Township will accept the vehicle and equipment and tender payment after the Township determines that the vehicle and equipment are in exact compliance with the Specifications and requirements set forth herein, are free from any defects, are

in good working order and operating condition following inspection and testing of the Vehicle and equipment by the Township mechanic and Emergency Services department staff, which the Township will determine in its sole and absolute discretion. The Township's acceptance is expressly contingent upon said satisfactory inspection and testing. Acceptance of the vehicle and equipment shall not be considered a waiver by the Township of any of the terms and provisions herein required of the Successful Bidder.

12. Non-Discrimination

No Contractor who is the recipient of Township funds, or who proposes to perform any work or furnish any goods provided for herein shall discriminate against any worker, employee or applicant for employment or any member of the public because of religion, race, sex, sexual orientation, color, or national origin, marital status, or ancestry, age, physical or mental disability unrelated to ability, or an unfavorable discharge from the military service, nor otherwise commit an unfair employment practice.

13. Taxes

The Township is not subject to sales use, consumer, or other similar taxes required by law, and such taxes shall not be included in the bid proposal. The Township will furnish the successful bidder with a tax exempt number.

14. Bid Amount

The Bid Amount submitted by Bidder shall include all applicable prices, costs, and all other fees, expenses, costs, profits and overhead of Bidder for the vehicle and equipment in strict compliance with the Bid Documents.

15. Questions and clarifications

- A. Questions regarding the Bid Documents should be addressed to James Barr, Township Administrator, at (630)837-0301.
- B. Answers to questions and/or clarifications to Bid Documents will be issued in the form of an addendum to the Bid Documents and sent to all vendors of record. The last day to request clarifications to the Bid Documents and/or ask questions regarding the Bid Documents is July 8, 2013, in order to allow the Township sufficient time to issue addenda to all vendors of record.

II. VEHICLE AND EQUIPMENT SPECIFICATIONS

1. Scope and General Requirements

- A. It is the intent of the manufacturer to provide a new rescue apparatus that will withstand the continuous use encountered in emergency service. The apparatus shall be of the latest type, symmetrically proportioned and constructed with due consideration of the load to be sustained.
- B. All parts not specifically mentioned herein, but which are necessary in order to furnish a complete rescue apparatus, shall be furnished and shall conform to the best practices known to the rescue apparatus industry.
- C. The apparatus shall comply with all Federal, State, and local requirements pertaining to emergency vehicles at time of contract signing. The unit is to be of current year manufacture, and is to be new and unused. The bid price shall not include any local, State, or Federal taxes. The Bidder shall not be liable for any State or Federally mandated tax or program after the sale of this apparatus.
- D. These specifications shall be construed as minimum. Should the manufacturer's current published data or specifications exceed the minimum and be furnished.

2. PRODUCT QUALITY AND WORKMANSHIP

- A. The components provided and workmanship performed shall be of the highest quality available for this application. Special consideration shall be given to the following areas:
 - A). Accessibility to various components that require periodic maintenance or lubrication checks.
 - B). Features beneficial to the intended operation of the apparatus.
- B. Construction of the complete apparatus shall be designed to carry the loads intended to meet the road and terrain conditions and speed requirements desired when specified by the purchaser.
- C. Welding shall not be employed in the assembly of the apparatus in a manner that will prevent the removal of any major component part for service and/or repair.

3. NFPACOMPLIANCE

The National Fire Protection Association standard # 1906 (most recent edition) is hereby adopted and made a part of these specifications, the same as if they were written out in full detail, insofar as they apply with the exception of any sections dealing with "Equipment Recommended for Various Types of Apparatus". Bidders are to provide only the equipment requested herein and the Township will supply the rest before the apparatus is put into service. The unit shall comply with all federal, state, ICC, and DOT motor vehicle regulations, standards, and laws relating to commercial vehicles as well as to fire apparatus on the date of the bid.

4. CHASSIS PAINT COLOR

- A. The cab shall be painted by the chassis manufacturer.
- B. The color shall be: Ford F-1, White

5. COMMERCIAL CHASSIS SPECIFICATION

A. CHASSIS PROVIDER

- i. The chassis, as detailed in these specifications, shall be ordered and supplied by the apparatus manufacturer.

B. CHASSIS

- i. 2012 or Newer Ford F-350 Superduty
- ii. Dual Rear Wheel

6. CAB

- A. 4-door, crew cab
- B. 176" Wheelbase
- C. 60" Cab-to-Axle
- D. GVW front: 4,250 lbs.
- E. GVW rear: 9,750 lbs.
- F. GVW total: 13,300 lbs.

7. CAB SEATING

The front seating shall consist of a heavy duty vinyl 40/20/40 split front bench seat w/center armrest, cupholder, storage and manual driver-side lumbar support

8. REAR CAB SEATING

The rear seating shall consist of a heavy duty vinyl 160/40 bench flip-up/fold-down rear seat.

9. ENGINE

6.8LV10

10. EMISSIONS

50StateEmissionPackage

11. TRANSMISSION

- A. TorqShift6-SpeedAutow/OD
- B. Heavyduty,IncludesSelectShift

12. AMBULANCEPREPARATIONPACKAGE

- A. Alternators,Dual200AMPHeavyDuty
- B. Batteries,Dual12Volt:750-CCA/78-amp-hour
- C. AirConditioning

13. GROSSVEHICLEWEIGHT

- A. GVWfront:5,940lbs.
- B. GVWrear:9,750lbs.
- C. GVWtotal:14,000lbs.

14. DRIVE

“OntheFly”FourWheelDrive

15. FUNCTIONAL

- A. Brakes–4-wheelAnti-LockBrakingSystem(ABS)
- B. Fueltank–40gallonft-axle
- C. Shockabsorbers–Heavydutygas
- D. Springs,rearauxiliary
- E. Stabilizerbars–frontandrear
- F. StationaryElevatedIdleControl,SEIC(DieselOnly)
- G. Steering–power
- H. Steeringdamper
- I. Trailerwiring–7-wireharnessw/relays,bluntcut &labeled

16. INTERIOR

- A. Doortrim–armrest/grabhandle&reflector
- B. Headliner–colorcoordinatedmoldedcloth

- C. Horn–dualelectric
- D. Floorcovering–blackvinylfull
- E. Instrumentation – tachometer, speedometer, turbo boost (diesel only), voltmeter (manual only), oil pressure, coolant temperature, fuel gauge, transmission temperature gauge(automaticonly),indicatorlights&MessageCenter/odometer, tripodometer,enginehourmeter&warningmessages
- F. Mirror–rearview11.5"day/night
- G. Powerpoint-auxiliary
- H. Scuffplates–colorcoordinated
- I. Steeringwheel–blackvinyl
- J. Sunvisors – color coordinated cloth, single driver w/pocket, single passenger w/mirrorinsert
- K. Upfitterswitches(4)ontheinstrumentpanel
- L. WindshieldWipers–intervalcontrol

17. INTERIOR TRIM PRIMARY COLOR

ThecabinteriorprimarycolorshallSteel(Gray).

18. SAFETY/SECURITY

- A. Airbag–driver&frontpassenger
- B. Airbag–passengersideairbagdeactivationswitch(RegularCab&SuperCab)
- C. Belt-Minder®–chime&flashingwarninglightifbeltnotbuckled
- D. Safety belts – color coordinated w/height adjustment (front outboard seating positions)

19. EXTERIOR

- A. Fendervents–front
- B. Glass–solartinted
- C. Headlamps–dualbeamjeweleffect
- D. Lights–roofmarker/clearancelamps
- E. Mirrors–manuallytelescopictrailertoww/manual glass&2-wayfold
- F. Towhooks–(2)front
- G. Window–rear, fixed

20. GRILLE

Blackpainted

21. AUDIO

AM/FMstereo,w/digitalclock&2-speakers

22. BUMPER

Chrome Steel with grained MIC top cover.

23. AXLE

- A. 4.10 Ratio
- B. Limited Slip

24. WHEELS

17" Argent Painted Steel (6)

25. TIRES

Six (6) LT245/75Rx17E BT Max Traction tires shall come supplied from Ford with the chassis.

26. CHASSIS MODIFICATIONS

A. STEP BARS

- i. One (1) set of Diamond plate NFP running boards.

B. WHEEL COVERS

- i. Each wheel shall have one (1) stainless steel wheel cover installed.

27. TIRE PRESSURE MONITORING

- A. Valve stem mounted visual indicators shall be provided on each tire. The indicators shall identify the following conditions:
- B. ALL GREEN - Tire is properly inflated.
- C. HALF GREEN / HALF RED - Tire is approximately 10% underinflated
- D. ALL RED - Tire is 20% or more underinflated.

28. 12K WINCH

- A. A 12,000 lb. winch shall have heavy duty steel housing and frame components for maximum strength, durability, and reliability. The winch shall have the following features:
- B. Rated Line Pull: 12,000 lbs

- C. Motor: 12VDC 6.0hp (4.5kW) Series Wound
- D. Control: Remote handheld with 12' lead
- E. Gear Train: 3 stage planetary
- F. Gear Ratio: 265:1
- G. Clutch: Freespooling
- H. Brake: Automatic Load Hold
- I. Wire Rope Dia x L: 3/8" x 90'
- J. Drum Dia x L: 2.5" x 8.8"
- K. Battery Leads: 2 ga x 6'
- L. 2 Year Limited Warranty

29. REAR TOW PLATES

Two (2) rear tow plates with 1-1/2" I.D. holes, constructed with 1" steel plate shall be provided on the apparatus. These shall be located below the apparatus body and fastened to the rear chassis frame rails.

30. REAR MUD FLAPS

There shall be a pair of mud flaps installed behind the rear tires.

31. MASTER BODY DISCONNECT SWITCH

- A. A master body disconnect on/off switch with shall be provided in the cab, near the driver's door.
- B. A green "Master Body Disconnect On" pilot light shall be visible from the driver's position.

32. BACK-UP ALARM

One (1) Backup Alarm 97 DB shall be provided and installed at the rear of the unit. It shall be wired to activate when the transmission is placed in reverse.

33. OCCUPANTS SEATED SIGN

A sign that reads "Occupants must be seated and belted when apparatus is in motion" shall be visible from each seated position.

34. FLUID DATA PLAQUE

A fluid data plaque containing required information shall be provided based on the applicable components for this apparatus, meeting current NFPA 1906 Standards as follows:

- A. Engine oil
- B. Engine coolant

- C. Chassis transmission fluid
- D. Pump transmission lubrication fluid
- E. Pump primer fluid
- F. Drive axle(s) lubrication fluid
- G. Air conditioning refrigerant
- H. Air conditioning lubrication
- I. Power steering fluid
- J. Cab tilt mechanism fluid
- K. Transfer case fluid
- L. Equipment rack fluid
- M. CAFS air compressor system lubricant
- N. Front tire cold pressure
- O. Rear tire cold pressure

P. Locations shall be in the driver's compartment of the chassis cab.

35. OVERALL HEIGHT, LENGTH, GVW DATA PLAQUE

The cab dash area shall have a highly visible plaque noting overall maximum height of vehicle, length and GVW of the finished apparatus.

36. "NORIDE" LABEL

A label shall be located on the vehicle at the rear step areas, and at any cross walkways, if they exist. The label(s) shall warn personnel that riding in or on these areas while the vehicle is in motion is prohibited.

37. SEATING LABEL

A label shall be installed in cab to denote the exact number of passengers to be carried in cab.

38. BODY & RELATED COMPONENTS

A. APPARATUS BODY (ALUMINUM)

i. BODY DIMENSIONS:

- A. Body length to be 108"
- B. Body height to be 59"
- C. Body width to be 93"
- D. Compartment to be 21" deep
- E. Floor to be 50" wide

39. UNDERSTRUCTURE:

- A. Frontcrossmember.190(3/16")5052-H32Aluminum formedChannel-(1)floor widthand(1)fullwidth(outside)
- B. Rearcrossmember.190(3/916")5052-H32formed AluminumChannelfullwidth
- C. .190(3/16")5052-H32formedAluminum full width channelcrossmembers fore &aftofthewheelhousepanel
- D. Intermediatecrossmember-.190(3/16")5052-H3 2formedAluminumChannel
- E. Centerframereinforcement
 - a. (3) - .190 (3/16") 6061-T6 Aluminum extruded ch annel full length longitudinalreinforcements

40. FLOOR:

.125(1/8")3003-H22AluminumTreadPlate

41. BODYSIDES:

.090(12ga.)5052-H32Aluminum

42. FRONTBULKHEAD:

- A. .090(12ga.)5052-H32Aluminum
- B. Solidlyweldedinplace
- C. Die-formedreinforcingrib
- D. .125(1/8")3003-H22AluminumTreadPlatereinfo rced

43. FRONTPANELS:

.090(12ga.)5052-H32Aluminumflangeddesign

44. SECONDFRONTPARTITIONS:

.090(12ga.)5052-H32Aluminum

45. FRONTCOMPARTMENTBASE:

.090(12ga.)5052-H32Aluminum

46. HORIZONTALCOMPARTMENTBASE:

.090(12ga.)5052-H32Aluminum

47. WHEELHOUSEPANEL:(FlushType)

.090(12ga.)5052-H32Aluminum

48. SECOND REAR PARTITION:

.090(12ga.)5052-H32Aluminum

49. REAR COMPARTMENT BASE:

.090(12ga.)5052-H32Aluminum

50. REAR PANELS:

.090(12ga.)5052-H32Aluminum flanged design

51. LIGHT GUARDS:

Inside rear panels with large wiring access holes

52. PRIMER:

12 stage automotive electro-cathodic immersion primer paint system (conform to all current state and federal environmental regulations.)

53. UNDERCOATING:

- A. Entire understructure undercoated
- B. Undercoating used:
 - i. Monsey 2.7 Low VOC Solvent Base Sound Sealer.

All Body Parts Are Electrically Welded Into One Integral Unit.

54. LEFT SIDE COMPARTMENTS

A. LEFT SIDE VERTICAL COMPARTMENT

- i. **L1:** There shall be one (1) compartment in front of the left side rear wheels, approximately 34.75" wide x 53" high x 21" deep. The door openings shall be approximately 29.75" wide x 45" high.

B. TRANSVERSE COMPARTMENT

- i. The front vertical compartments shall be connected by a transverse, pass through tunnel. Only the area above the bed floor shall be transverse.
- ii. There shall be one (1) 150lb. adjustable shelf located in the compartment mounted on a Uni-Strut shelf track. It shall be made of 1/8" smooth aluminum and have a 2" lip on each side.

C. LEFTSIDE HORIZONTAL COMPARTMENT

- i. **L2:** There shall be one (1) compartment above the left side rear wheels, approximately 49.75" wide x 32" high x 21" deep. The door opening shall be approximately 47" wide x 25" high.
- ii. There shall be one (1) 150 lb. adjustable shelf located in the compartment mounted on a Uni-Strut shelf track. It shall be made of 1/8" smooth aluminum and have a 2" lip on each side.

D. LEFTSIDE REAR VERTICAL COMPARTMENT

- i. **L3:** There shall be one (1) compartment behind the left side rear wheels, approximately 23.75" wide x 53" high x 21" deep. The door opening shall be approximately 20" wide x 45" high.
- ii. There shall be one (1) 150 lb. adjustable shelf located in the compartment mounted on a Uni-Strut shelf track. It shall be made of 1/8" smooth aluminum and have a 2" lip on each side.

55. RIGHTSIDE COMPARTMENTS

A. RIGHTSIDE VERTICAL COMPARTMENT

- i. **R1:** There shall be one (1) compartment in front of right side rear wheels, approximately 34.75" wide x 53" high x 21" deep. The door opening shall be approximately 29.75" wide x 45" high.
- ii. There shall be one (1) 150 lb. adjustable shelf located in the compartment mounted on a Uni-Strut shelf track. It shall be made of 1/8" smooth aluminum and have a 2" lip on each side.

B. RIGHTSIDE HORIZONTAL COMPARTMENT

- i. **R2:** There shall be one (1) compartment above the right side rear wheels, approximately 49.75" wide x 32" high x 21" deep. The door opening shall be approximately 47" wide x 25" high.
- ii. There shall be one (1) 150 lb. adjustable shelf located in the compartment mounted on a Uni-Strut shelf track. It shall be made of 1/8" smooth aluminum and have a 2" lip on each side.

C. RIGHTSIDE REAR VERTICAL COMPARTMENT

- i. **R3:** There shall be one (1) compartment behind the right side rear wheels, approximately 23.75" wide x 53" high x 21" deep. The door opening shall be approximately 20" wide x 45" high.

- ii. There shall be one (1) 150lb. adjustable shelf located in the compartment mounted on a Uni-Strut shelf track. It shall be made of 1/8" smooth aluminum and have a 2" lip on each side.

56. REAR COMPARTMENT

- i. **REAR1:** There shall be one (1) rear compartment approximately 50" wide x 43" tall x 96" deep. This compartment shall be left uncovered unless noted elsewhere in this specification.
- ii. The cargo area of the apparatus body shall be completely enclosed and covered with diamond plate aluminum. The back of the enclosure shall have a roll-up door as specified later shall be attached to the end of the Cargo Frame for ease of operation.

57. EXTENDO-BED

- i. A 1500lb. Extendo-Bed will be supplied and mounted in the rear compartment area of the body. The bed shall have a three-stage Frame Assembly design that shall allow the cargo frame to extend completely out to the vehicle.
- ii. There shall be a lock assembly made up of a 3/4" diameter steel rod the length of the assembly. Lock points shall be located at just over 100% extension and at approximately each 12" of travel. This allows the unit to be locked at various positions of travel for field work. A second pull handle shall be attached to the end of the Cargo Frame for ease of operation.
- iii. Note: Include (1) piece of .75" thick marine grade plywood within full bed area.

58. FUEL DOOR

A Cast Products aluminum fuel door shall be installed on the driver's side wheel well behind the axle. It shall be labeled "Ultra Low Sulfur Diesel Fuel Only"

59. COMPARTMENT FINISH

Each compartment shall be coated with Zolatone, a polychromatic, modified nitrocellulose coating with a flat background color with accenting fleck colors. The Zolatone finish is washed and waxed like paint, and is resistant to many solvents and wear.

60. ROLL-UP DOORS

- A. All compartment doors shall be R.O.M. Roll-Up doors of appropriate size. The slats shall be constructed of a double wall frame extrusion. The exterior surface

shall be flat and interior surface to be concave to prevent loose equipment from jamming the door. Slats shall be anodized to prevent oxidation and will have interlocking shoes on every slat.

- B. Track shall be one-piece aluminum with an attaching flange and finishing flange incorporated into its design which facilitates installation and provides a finished look to installation without adding trim. Track to have replaceable side seal, which prevents water and dust intrusion into the compartment.
- C. Drip rail to be supplied by roll-up door manufacturer. Drip rail will have replaceable wiper seal to be made of aluminum.
- D. Each door to have a counterbalanced drum to assist in lifting and eliminate risk of accidental closing. Roller shall be mounted in the top of the compartment and shall have spring tension preset at the factory prior to installation.
- E. This securing method will be full width lift bar to be operated with one hand, even with heavy gloves.

61. DOOR FINISH

The doors shall have an anodized satin finish. Powder coating shall not be acceptable.

62. TREADPLATE AND TRIM

- A. All treadplate shall be bright aluminum. Any horizontal surface shall be overlaid with embossed 1/8" bright aluminum treadplate. The aluminum treadplate shall meet recommended requirements for non-slip surfaces.
- B. The front face of each compartment shall be overlaid with aluminum diamond plate. The overlay shall be one piece construction from top to bottom.
- C. The top of each side compartment shall be overlaid with aluminum treadplate.
- D. Each rear fender shall be overlaid with aluminum diamond plate.
- E. The area in between the tailboard and the rear compartments shall be overlaid with aluminum diamond plate. It shall be one piece construction from side to side.

63. REAR TAILBOARD

- A. A rear tailboard with diamond plate aluminum covering will be provided at the rear of the truck. It shall consist of one step made of grip-strut material. The step shall be 93" wide x 9.5" deep.

- B. This area is to be used as a step, but is not designed to carry personnel and should never be used to transport firemen.

64. EXTERIOR GRAB RAILS

Each grab rail shall be non-slip, 1-1/4" diameter extruded polished aluminum grab rails with rubber inserts designed to provide maximum gripping ability, strength, and durability. The rails shall comply with NFPA 1901.

65. GRAB RAILS, REAR, VERTICAL

- A. There shall be two (2) grab rails, 24" in length located at the rear of the body. One (1) shall be located on the driver's side and one (1) shall be located on the passenger's side.
- B. A sign: "DO NOT RIDE ON REAR STEP, DEATH OR SERIOUS INJURY MAY RESULT" shall be placed in view from the ground.
- C. All materials used for exterior surfaces designated as stepping, standing, and walking areas and all interior steps shall be slip resistant in accordance with NFPA 1901-2009.

66. 12VOLT ELECTRICAL SECTION

A. 12VOLT ELECTRICAL SYSTEM

- i. The truck shall have a 12-Volt electrical system.
- ii. All wiring will be run in convoluted high temperature plastic loom. Wiring shall be color coded and will be of adequate size to handle the assigned load. All solenoids, relays, and terminal block wiring shall be located in an easily accessible area.
- iii. All circuits provided shall have properly rated low voltage over current protective devices.
- iv. All electrical will be in accordance with modern automotive wiring standards.
- v. All under side terminal junctions shall be fully enclosed in sealed plastic weatherproof boxes.
- vi. Electromagnetic interference suppression shall be provided as required to satisfy the radiation limits specified in SAE J551/1.

- vii. All relays and fuses shall be labeled. Schematic drawing shall be provided.

B. LOW VOLTAGE ALARM

A Kusmaul 091-85-12 Low Voltage alarm system shall be supplied and installed with a Cole Hersee 4112-RC light/buzzer located in the cab.

67. UNDERBODY/CAB GROUND LIGHTS

- A. LED ground illumination lights, with outward facing angle brackets shall be provided and installed in the following locations:
 - i. One (1) under each chassis door
 - ii. Two (2) under the front of the body
 - iii. Two (2) under the rear tailboard area
- B. The lights shall activate with the parking brake or when the transmission is placed in "park".

68. LICENSE PLATE LIGHT

A license plate bracket with LED light shall be provided and installed on the rear of the body. It shall be wired to come on with the headlights.

69. HAZARD LIGHT

- A. A Whelen 0SR00FCR flashing red light and audible alert, located in the driving compartment, shall be illuminated automatically whenever any compartment door is ajar.
- B. The hazard light shall be marked with a sign that reads "Do Not Move Apparatus When Light is On"

70. NFP LIGHTING PACKAGE

- A. The optical warning system shall be capable of two (2) modes of operation:
- B. One (1) mode shall signal to drivers and pedestrians that the apparatus is responding to an emergency and is calling for the right-of-way.
- C. One (1) mode shall signal that the apparatus is stopped and is blocking the right-of-way.

- D. When the master warning switch is closed, and the parking brake is released, the warning device signaling for the call for the right-of-way shall be energized.
- E. When the master warning switch is closed, and the parking brake is engaged, the warning device signaling the blockage of the right-of-way shall be energized.

71. LIGHTBAR

- A. One (1) WHELEN JE2NFPA56" LED light bar shall be supplied and mounted on the roof of the chassis. The light bar shall have clear lenses and contain the following modules:
 - i. Four (4) RED LIN6 LED modules, two (2) on each corner.
 - ii. Four (4) RED CON3 LED modules, across the front
 - iii. Two (2) WHITE CON3 LED modules, on the front
- B. The White LED modules shall be shut down with parking for "Blocking Right-Of-Way" mode.
- C. The light bar shall be mounted using the WHELEN MKEZ 7 mount.
- D. The light bar shall have a five (5) year warranty on the LED modules.

72. LIGHTBAR ACTUATION

The light bar shall be controlled by a switch in the cab.

73. LOWER FRONT WARNING LIGHTS

- A. One (1) pair of Whelen model 70R02FRR Red Super LED warning lights with Red Lens shall be installed, one (1) each side on the front of the chassis cab. The dimensions of the lights shall be 3"x7".
- B. There shall be chrome bezel supplied and installed on the warning lights.

74. INTERSECTION WARNING LIGHTS

One (1) pair of Whelen model LINZ6 Red LED warning lights with Red Lens shall be installed, one (1) each side of the chassis cab. The dimensions of the lights shall be 2"x4".

75. LOWER MID-BODY WARNING LIGHTS

- A. One (1) pair of Whelen model 70R02FRR Red Super LED warning lights with Red Lens shall be installed, one (1) each side of the apparatus, mid-body. The dimensions of the lights shall be 3"x7".
- B. There shall be chrome bezel supplied and installed on the warning lights.

76. LOWER REAR WARNING LIGHTS

- A. One (1) pair of Whelen model 70R02FRR Red Super LED warning lights with Red Lens shall be installed, one (1) each side on the lower rear of the apparatus body. The dimensions of the lights shall be 3"x7".
- B. There shall be chrome bezel supplied and installed on the warning lights.

77. LOWER WARNING LIGHT ACTIVATION

The lights shall be controlled by a switch in the cab.

78. SIREN

One (1) Whelen 295SLSA1 100 watt siren shall be installed in the cab. It shall have the following options:

- Hard Wired Microphone
- 17 Scan-Lock Siren Tones
- Public Address
- Air Horn

79. SPEAKER

One (1) Cast Products SAP3806-11 FSD-1 100 watt speaker mounted through the front bumper on the passenger side.

80. REAR ROAD LIGHTING

Two (2) sets of 4" LED stop, turn and back-up lights shall be provided, one (1) set on each side of the rear of the truck.

81. MARKER LIGHTS

LED marker lights shall be installed on the vehicle in conformance to the Department of Transportation requirements.

82. COMPARTMENT LIGHTING

Each compartment shall contain one (1) full length R.O.M. V3 LED strip light. The light shall be activated when the door is rolled up.

83. PAINT PROCESS

- A. The apparatus shall be finish painted with DuPont Imron Elite system paint.
- B. All surfaces to be painted shall be prepared and cleaned using soap and water. PrepSol3919S or KwikClean3949S shall be used to remove any tar, wax, polish and grease.
- C. All surfaces to be painted shall be scuffed using 80-150 grit sandpaper. All surfaces shall receive a final wipe using Dupont Lacquer and Enamel Cleaner 3939S.

84. IMMERSION PRIMING

- A. Before painting the body shall go through a computer controlled 12 stage electro-cathodic immersion prime paint system.
- B. There shall be a 5-stage pre-treat system to ensure consistent primer adhesion. In this process, the body is treated with phosphate to ensure the primer adheres to the metal.
- C. The body shall then be plunged into a vat of high voltage, electrically charged primer, that shall fuse the paint to the aluminum. This process ensures that all surfaces, even the most hidden, receive a uniform, smooth, consistent layer of protection, NO EXCEPTION TO THIS REQUIREMENT SHALL BE ALLOWED.

85. PAINT FINISH

- A. The body shall be painted Dupont Imron Elite. The paint shall be applied according to DuPont application instructions. The paint shall be Imron Elite mixed with 5% Adhesion Promoter 2322S and 1% DUP153 05S Activator.
- B. As part of the curing process the painted body shall go through a baking process. The painted components shall be baked at 185 degrees for 3 hours to achieve a complete coating cure on the finished product.
- C. After bake and ample cool down time, the coated surface shall be sanded using 3M 1000, 1200, and/or 1500 grit sandpaper to remove surfaced defects. In the final step, the surfaces shall be buffed with 3M Super-du ty compound to add extra shine to coated surface. No more than .5 mil shall be removed in this process.
- D. A five (5) year warranty from the paint manufacturer shall be included. The warranty shall include 100% product and 100% labor.

86. UNDERCOATING

- A. The entire understructure of the apparatus body shall be undercoated using Monsey 2.7 Low VOC Solvent Base Sound Sealer.

87. COMPARTMENT FINISH, ZOLATONE

The apparatus side compartment interiors are to be coated with Zolatone, a polychromatic, modified nitrocellulose coating with a flat background color with accenting fleck colors. The compartments shall be cleaned with a greaser remover, and then the surface sanded and prepared for painting. The Zolatone finish is washed and waxed like paint, and is resistant to most solvents and wear.

88. PAINT COLOR

The apparatus body paint shall be "cross referenced" from the chassis paint, and shall be painted to match the main chassis color as close as possible.

89. WHEEL RIMS

The chassis wheels shall be as furnished by the chassis OEM. No additional finishes shall be provided by apparatus manufacturer.

90. REFLECTIVE STRIPING

Reflective striping shall be applied to the perimeter of the truck. Size and design shall be determined by the department.

91. CHEVRON STRIPING

At least 50% of the rear of the unit shall be covered with Red and Yellow alternating 6" stripe in an inverted Chevron pattern.

92. LETTERING

- A. Reflective lettering shall be applied to both cab doors at the direction of the Department.
- B. NFPA Compliant reflective material shall be affixed to the inside of each hinged door.

93. EQUIPMENT SECTION

A. EQUIPMENTS SUPPLIED BY OEM

The following equipment (if listed below) shall be supplied with the apparatus by

the manufacturer. It shall be shipped loose unless detailed below or otherwise in these specifications.

B. PURCHASER RESPONSIBILITY

It shall be the responsibility of the purchaser to supply all NFPA 1906 equipment not listed in this specification before the apparatus is placed in service.

C. Harrison Hydra-Gen Model DBR5500

1. The generator shall be on (1), Harrison DBR5500 gas online generator rated at 5,500 watts, 23/46 amps, 129/240 VAC, 60 Hz 1-phase.
2. The generator shall provide 6,500 watts of peak power and 5,500 watts of continuous power.
3. The generator shall be designed and assembled by a company with no less than 20 years experience in the manufacture of generators.
4. The generator shall use a 13 HP Honda GX390 engine as the power source.
5. The generator shall provide an electric start for the gasoline engine.
6. The generator shall be certified in all 50 states.
7. The generator shall provide a 6-gallon tank as standard.
8. The gasoline tank shall be fed by a premium grade fuel pump.
9. The generator shall have top access to the electrical interface box.
10. A voltmeter shall be provided.
11. The generator shall not utilize electronic controls or a multiplex system to control the frequency.
12. The generator shall use a commercial type alternator with a heavy-duty bearing and of brushless design to ensure low maintenance. No brushes or slip rings shall be allowed.
13. When properly installed, the system shall be warranted for a period of not less than one (1) year.

14. The generator shall be tested at the full nameplate rated load prior to shipping and the test report shall be included.
15. The generator shall provide an option for a self sealing air intake to prevent recirculation of exhaust air.
16. The generator shall provide an option for a remote keyswitching system.
17. The generator shall provide an option for engine oil quick drain.
18. The generator shall provide an option for a main circuit breaker.
19. The generator shall provide an option for remotely mounted outlets and breakers.
20. The generator shall provide an option for a generator running signal.
21. The generator shall be tested at the full nameplate rate load prior to shipping and the test report shall be included. The test report will document the generator's performance at various loads from no load to full load to ensure reliable power delivery at those loads.

D. 110V OUTLETS

1. Four (4) 110-volt outlets with weatherproof covers shall be mounted on the apparatus in the following locations:
 - A. One (1) driver side over the wheel well
 - B. One (1) passenger side over the wheel well
 - C. One (1) driver side rear of box to accept removable telescoping tripod floodlight
 - D. One (1) passenger side rear of box to accept removable telescoping tripod floodlight

E. FLOODLIGHTS

1. Four telescoping floodlights shall be mounted in the following locations:
2. One (1) permanently mounted and wired to the generator on the driver side front of box.
3. One (1) permanently mounted and wired to the generator on the passenger side front of box.
4. One (1) removable floodlight with tripod on driver side rear of box.
5. One (1) removable floodlight with tripod on passenger side rear of box.

F. LIGHT TOWER

1. Command Light, Model KL465 with backlighting option or similar model light tower shall be provided for installation on the apparatus. The location of the light tower and its controls shall be installed according to instructions given by the customer and the requirements of the light tower manufacturer.

2. Light Tower Construction and Design

- A. The command light assembly shall be of aluminum construction, with stainless steel shafts and bronze bushings for long life and low maintenance.
- B. The electrically controlled unit shall not require usage of the vehicle's air supply for operation, thereby eliminating the chance for air leaks in the vehicle braking system. Hydraulic or pneumatic type floodlights are not acceptable alternatives to the specified electric light tower.

3. Light Tower Electrical System

The light tower shall be a single-stage device with lighting capable of 355 degree rotation. The light shall be elevated by a electric linear actuators, the actuators; the actuator shall adjust the light bank angle from 0 to 110 degrees.

4. Light Tower Controls

The light tower shall be controlled with a hand-held 6 foot umbilical line remote control. The storage station for the remote control unit shall be equipped with a button to activate the "Auto-Park" automatic nesting feature. The controls on the remote box shall be:

- A. Two (2) switches for each two light banks.
- B. One (1) switch for elevating/retracting the arm.
- C. One (1) switch for rotation of the light bank.
- D. One (1) switch to engage Auto-Park.
- E. One (1) indicator light to indicate when light bank is out of roof nest position.
- F. One (1) indicator light to indicate when light bank is rotated to proper nest position.

5. Light Tower Floodlights

- A. Floodlight Manufacturer: Command Light
- B. Number of lamp heads: Six (6)
- C. Voltage: 12 volt
- D. Watts of each lamp head: 650
- E. Total watts of light power: 4KW

- F. Configuration: the lights shall be mounted in three (3) on each side of the light tower, giving two (2) vertical lines of three (3) when the lights are in the upright position

BID PROPOSAL FORM

After having carefully examined the Hanover Township Bid Documents dated June 19, 2013 for the Emergency Services Rescue Vehicle, including but not limited to the Specifications, General Conditions and Instructions to Bidders, and all addenda issued prior to the bid date, and being in strict and full compliance with said Bid Documents, I/we offer the following bid for the vehicle and equipment described below and as attached hereto (collectively, the "Vehicle and Equipment"):

BID PRICE: \$ _____

The undersigned Bidder hereby states that the price quoted above constitutes the net total cost to Hanover Township for the supply of the Vehicle and Equipment, that the Vehicle and Equipment complies with the Township's Specifications and other Bid Documents, that to the best of the bidder/vendor's knowledge, the Vehicle and Equipment are in good working order and operating condition and that bidder/vendor has no knowledge of any required repairs relative to the Vehicle and/or Equipment and hereby certifies that he/she is authorized to bind the Bid to the price stated above:

Date: _____ Name of Bidder: _____
By: _____
Title: _____
Address: _____

Telephone: _____
Fax: _____
E-mail: _____

Describe the Vehicle and Equipment for which bidder /vendor is submitting its bid:

[Attach any additional documents necessary to describe the Vehicle and Equipment]

The undersigned understands and agrees that the above stated Bid Prices shall remain in force and effect for not less than thirty (30) days following the Township's bid opening, and in the event bidder/vendor receives notice that it is the lowest bidder meeting Specifications, that the Township's acceptance will be expressly contingent upon inspection and testing of the Vehicle and Equipment by the Township's mechanic and Emergency Services staff, and that the Township will determine in its sole and absolute discretion whether the Vehicle and Equipment are acceptable to the Township.

STATE OF _____)
)SS.
COUNTY OF _____)

I, the undersigned, a notary public in and for the _____ State and County aforesaid, hereby certify that _____ appeared before me this _____ day in person and, being first duly sworn on oath, acknowledged that he/she is authorized to act _____ on behalf of _____ (Company), and that he/she executed the foregoing certificate as his/her free act and deed and as the _____ act and deed of _____ (Company).

Dated: _____, 2013

Notary Public

