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SPECIFICATION	
045660 - Truck, 17K, 2WD, Crew Cab & Chassis, Diesel Engine, Automatic Transmission, Dual Rear Wheels	
This Dual Rear Wheel Model, Chassis Only, Shall Be A Manufacturer's Standard Model Vehicle, Capable Of Carrying Five (5) Passengers. 17,000 Lb GVWR Minimum. Manufacturer's Rating Certified On Door. Chassis to accommodate A 9 Foot Minimum, Flatbed, Service, Shop, Foreman, Weld, Dump Body or Survey Body.	
Note: " Refer to PCID 1075 for <u>Delivery</u> , and <u>Warranty</u> Requirements".	
The following additional items shall be supplied	
Air Bags : Shall be equipped with manufacturers standard air bags.	
Air Conditioning : Shall be equipped with manufacturers standard air conditioning.	
Alternator : Shall be manufacturers largest / heaviest duty available.	
Blue Tooth: Shall be equipped with manufacturers standard Blue tooth system.	
Daytime Running Lights : Shall be equipped with manufacturers standard Daytime Running Lights. (Aftermarket Acceptable)	
Differential : Shall be equipped with manufacturers standard Limited Slip Differential. Rear Axle Ratio Shall be 4.88.	
DEF Tank : Shall be mounted to not interfere with body installation. Any relocation shall be done in a professional manner using new materials.	
Engine : Shall be Manufacturer's highest available horsepower and torque rating, standard or optional diesel engine, to include, immersion in-block type engine heater For water cooled engines, with water-proof plug and flush mounted In drivers side front sheet metal, engine oil cooler , and largest available engine cooling capacity.	
Exhaust : Shall be capable of being extended by the body up fitter to the outer most edge of the installed body.	
Front Bumper : Shall be Chrome, Black, or Argent.	
Fuel Tank : Manufacturer's highest capacity standard tank frame mounted (Tank filler positioned to ensure that filler nozzle can be set on automatic and nozzle will support itself, with unrestricted flow.)	
Lubricants : Shall be synthetic where available, with drain plugs identified or painted red. (Engine oil excluded)	
Mirrors : Shall be manufacturers standard heavy duty outside mirrors with convex mirror (aftermarket convex spot mirror acceptable) and extendable arms, driver and passenger sides. Shall be equipped with manufacturers standard manual day / night rearview mirror.	
Paint : Manufacturer's standard safety or school bus yellow.	
Seats: Shall be equipped with Vinyl 40/20/40 seats with center work console, Foam Padded with Seatbelts. (Cloth is Unacceptable)	
Suspension : Shall be equipped with trailer and handling package, to include front and rear stabilizer bars, heaviest available front and rear suspension, and heaviest available differential.	
Tires : Truck and Body Company shall ensure that proper sized tires and wheels for GVWR are supplied. Tires shall be radial, OEM's most aggressive / severe duty tire available from manufacturer.	
Transmission : Shall be automatic with largest available auxiliary oil cooler. (NOTE THERE SHALL BE PTO PROVISIONS MADE ON ECN#038100, 038110 AND 038120 DUMP BODIES. IT SHALL BE A ELECTRIC SHIFTED PTO AND HYDRAULIC PUMP SHALL BE TRANSMISSION MOUNTED AND BE FOR USE STATIONARY AND MOBILE APPLICATIONS).	
Windshield : Shall be equipped with manufacturers standard tinted windshield.	
Windows and Locks : Shall be equipped with manufacturers standard manual windows and door locks.	
The following equipment shall be supplied / installed	
Running Boards: Shall have one pair of R.O.M Roughneck running boards Bustin Style. They must be full length of cab entry area on both sides. (Installed) REF: EQN-170 drawing	
There shall be an ECCO Model 450 backup alarm, shock mounted. (Installed)	
There shall be a seven-way trailer light receptacle, "Pin Type", securely mounted near rear trailer hitch area. Wired per EQN - 80A. Connections shall be sealed and water tight and packed with dielectric grease.	
There shall be a 4.5" LED interior utility dome light with an on and off swith. OPTRONICS PART NUMBER#OPTILL22CB Installed centered, over the front seat, capable of operating with the Ignition off.	
There shall be a warning light: Whelen Model R10HDPA with Deutsch connectors. Supplied and delivered in the cab.	
All switches shall be permanently labeled and backlit.	

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There shall be two (2) front tow hooks, installed.	
There shall be an emergency triangle warning kit in each unit, in storage box and mounted in cab. EQN - 66A	
There shall be a 5 LB. minimum 3A:40:BC fire extinguisher rechargeable with vehicle mount. Securely mounted in the cab for easy and quick access. A sticker on the door closest to the extinguisher shall be applied in the outside lower corner of the door to identify the location of the extinguisher.	
There shall be a trailer hitch installed, as per EQN - 202B, the upper portion of hitch shall be painted with non-skid paint if extending to or outside body perimeter and is likely to be stepped on. (Tape is not acceptable.) There shall be provisions made for a safety break away cable. Hitch and below receiver parts shall not interfere with any part of the bumper or body no matter what configuration on the mounting plate is used.	
All the following shall be supplied and delivered in the cab. Buyers Products - Combo Ball Hitch W/ 2 inch Hard Chrome Ball BH8-2000, Pintle Mounting Plate PM-87, Bolt Kit 8520, Hitch Pin HP6253 WC. Or approved equal.	
<u>Safety</u>	
Unit shall be fitted with temporary mud flaps that shall remain intact.	
The cab shall have conspicuity tape as Per EQN-127A.	
Any area likely to be stepped on shall be covered with non-skid paint, tape is unacceptable.	
All handrails, ladders, and step configurations shall be built for three points of contact.	
Anti-slip paint is required on all handholds, for the entire length, (tape is unacceptable).	
<u>Options</u>	
<u>Option</u> : To be equipped with Four Wheel Drive.	
<u>Option</u> : To be equipped with Snow Plow Prep package.	
<u>Option</u> : Snow Plow, Adjustable Angle, or Straight reversible blade with a Minimum 9 foot moldboard: (Installed) Reference: Boss, Power V, Western MVP Plus, Western Pro Plus or prior to bid approved equal). Cab controls for angle and lift mechanism. Moldboard markers (wands). Auxiliary snow plow lights, turn signals, shall be hitch mounted and reinforced. The snow plow shall be mounted on specified chassis with all accessories Quick attach ends for hydraulic hoses. Trip mechanism. All electrical circuits shall be fused. Front moldboard snow deflector. Plow frame shall be furnished and installed and shall be in concurrence with the truck manufacturer's engineering approval. Factory snow plow prep package shall be supplied. Snow plow lights shall be furnished and mounted. Manufacturer's standard color.	
<u>Option</u> : To be equipped with Power windows, Power door locks, and Power / Heated mirrors with manual extendable arms.	
<u>Option</u> : Road Watch road/air temperature system. Located on the left front fender. Gauge to be neatly mounted in the dash within the drivers view or installed with control system integrated temperature display.	
<u>Option</u> : Vaisala road/air temperature system. Located on the left front fender. Gauge to be neatly mounted in the dash within the drivers view or installed with control system integrated temperature display. Ambient sensor shall be mounted as to not receive any heat from then engine or drive train components to represent a false reading of the ambient air temperature.	
<u>Option</u> : Install FLOCS system as per EQN: 351A.	
<u>Option</u> : Flatbed Body upfit, Specification 046900	
<u>Option</u> : Service Body upfit, Specification 048900	
<u>Option</u> : Shop 9' Body upfit, Specification 039700	
<u>Option</u> : Foreman Body upfit, Specification 050400	
<u>Option</u> : Forman Body upfit, Split door option Specification 050401	
<u>Option</u> : Survey Body upfit, Specification 049700	
<u>Option</u> : Weld Body upfit, Specification 045860	
<u>Option</u> : Steel Dump Body upfit, Specification 038100	
<u>Option</u> : Aluminum Dump Body upfit, Specification 038110	
<u>Option</u> : Stainless Steel Dump Body upfit, Specification 038120	
<u>Option</u> : Spreader upfit, Specification 038100, 038110, or 038120	

Option : Statewide Radio:

Vehicle electrical and electronics will conform to the Federal Communications Commission 47 C.F.R. Part 15 so as not to interfere with the operation of the PennDOT Land Mobile Radio, which is an authorized radio station under 47 C.F.R. Part 90.

Radio Antenna: There shall be a roof mount base, PCTEL model BMATM/NC25 and a VHF/700/800 Sti-Co RFMT-NT-V/U/C antenna. Assembly shall be mounted to the center of the cab roof (not to interfere with any cab shield), with the antenna cable routed to underneath the dash. There shall be a minimum of 4 feet of antenna cable coiled at the base of the floor to allow for connection of radio on spreader control pedestal. Antenna shall be prewired with a UHF MALE connection. (No substitute, standardization).

Power Distribution Center: There shall be a 4-way power/ground distribution center located on the underside of the dash for connection of the state radio. The lugs shall be configured in the following manner: (1) lug shall be a 30 ampere constant hot circuit, (1) lug shall be a 10 ampere ignition controlled circuit. (2) lugs shall be chassis ground. All connections shall be enclosed in a weatherproof enclosure.

Option : Bidder must provide option pricing for "one" of the following.

Factory: Having unit bid painted PennDOT yellow. Reference DUPONT F9885 shade only. Unit shall be painted PennDOT yellow in lieu of the OEM's original color. Using the same process as with OEM paint.

Aftermarket: Having unit bid painted PennDOT yellow. Reference DUPONT F9885 shade only. All surfaces shall be properly cleaned and prepared prior to paint. Paint shall be the same quality as factory paint. To include all areas of the unit including interior.

Drawings:

EQN-66A	Revised	07-13-17	sheet 1	TRIANGLE STORAGE BOX AND BRACKET
EQN-80A	Revised	08-02-18	sheet 1	WIRING DIAGRAM
EQN-127A	Revised	01-02-09	sheet 1	CONSPICUITY TAPE
EQN-202B	Revised	07-27-16	sheet 1	HITCH: WEIGHT DISTRIBUTING
EQN-351A	Revised	06-19-13	sheet 1 & 2	FAST LUBE OIL CHANGE SYSTEM OVERVIEW AND PARTS LIST
EQN-170		7-19-16	sheet 1	RUNNING BOARDS

Note : All up fitting shall be in accordance with the chassis manufacturers body builders up fitter manual.

Installation Practices

All lights shall meet all Federal and State regulations.

All wire splices shall be insulated with heat shrink materials or removable connectors that create a water tight connection.

All wires shall be securely fastened with no wires hanging or protruding where they are exposed to the risk of damage.

All junction boxes shall be located inside of the utility body, in a location that will not compromise storage space. For easy accessibility, junction boxes must not be obstructed in any way.

All electrical connections shall be treated with di-electric grease. All wiring shall be secured using "P" type clamps at intervals not to exceed 12" between securing points

All wires shall be in a protective covering and protected from chaffing, rubbing and getting pulled or torn from external sources.

Any alterations / relocation to fuel fill, DEF tank, exhaust, Etc. to allow installation of body shall be made in a professional manner using new materials.

Any place steel and aluminum contact each other Mylar or an approved equal shall be used as a buffer. Laminate rubber is unacceptable.

All vertical and horizontal seams of the body sides shall utilize full penetration welds in accordance with standard welding practices as set forth by the American Welding Society and sealed water tight to create one integral body.

All corners shall be angled or rounded for safety and all weld splatters removed. All mounting procedures shall be in accordance with NTEA standards.

The use of any of the following items or practices WILL NOT BE ACCEPTED.

Non-steel fittings on hydraulic pressure lines.

Excessive use of elbows on hydraulic lines.

Use of thread tape on hydraulic fittings.

Use of galvanized fittings or components on hydraulic system.

Improper hydraulic line size.

Use of high-pressure hose for hydraulic suction line.

Scotchlok-type wire splices.

Non-insulated wire splices.

Improper or not secured hose or wire routing near exhaust, over-sharp edges or through holes without grommets, or sharp edges.

Improperly prepared, primed and painted surfaces.

Non-fused electric circuits.

Hydraulic circuits without pressure relief protection.

Laminated Rubber