

## **Proposal Option List**

12/23/2014

422

**Bid Number: Customer:** Florida Sheriffs Association

Representative Jones, Mark Job Number:

Organization: Ten-8 Fire Equipment, Inc Bid Date: 01-16-2015 **Stock Number:** 

Requirements Manager:

Description: Spec #17 Peterbilt Commercial Pumper **DBVersion:** 02.00.0578.0000

Pumper, Medium, Aluminum, 2nd Gen, Saber/Commercial Body:

Chassis: Peterbilt 337, 4x2 Single Rear Axle, WITH PRICING

Line	Option	Туре	Option Description	Qty
1	0074080		Build-to-Order, Pierce Florida Product	1
2	0010012		No Boiler Plates requested	1
3	0584455		Manufacture Location: Bradenton, Florida	1
4	0584453		RFP Location: Bradenton, Florida	1
5	0588609		Vehicle Destination, US	1
6	0018257		Commercial chassis & Snorkel products	1
7	0542373		Comply NFPA 1901 Changes Effect Jan 1, 2009, With Exceptions, Commercial Chassis	1
8	0533347		Pumper/Pumper with Aerial Device Fire Apparatus	1
9	0588611		Vehicle Certification, Pumper	1
10	0568412		Agency, Apparatus Certification, Pumper/Tanker, Third Party, PMFD	1
11	0012771		Stock/Demo No Fire Department	1
12	0536644		Customer Service Website	1
13	0537375		Unit of Measure, US Gallons	1
14	0000005		Bid Bond, 10%	1
15	0540326		Performance Bond, Not Requested	1
16	0000007		Approval Drawing	1
17	0589819		Electrical Diagrams, Commercial	1
18	0586588		Peterbilt 337, 4x2 Single Rear Axle, WITH PRICING	1
19	0629699		Base Price, Peterbilt 337, 4x2 - Pricing Level 5/7/2014	1
20	0567687		Wheelbase, Peterbilt, Up to 219"	1
			Wheelbase - 189.5"	
21	0584367		GVW Rating, Commercial Chassis	1
			GVW rating - 35,000 lbs.	
22	0529927		Frame, Chassis, 10.62", 120,000 PSI, Kw, Pete	1
23	0584366		Frame Liner not Req'd, Commercial Chassis	1
24	0582447		Axle, Front, Dana Spicer, 12K, Peterbilt	1
25	0567763		Suspension, Front Spring, 12,000 lb, Peterbilt	1
26	0073051		Shock Absorbers, Front	1
27	0585785		Bridgestone Tires (Default Brand)	1
28	0693853		Tires, Bridgestone, 11R22.50	1
29	0629690		Wheel, Steel, 22.50" x 8.25", Kw/Pete, Pierce Painted	1
	0582435		Axle, Rear, Dana Spicer S23-170, 23,000 lb, Peterbilt	1
	0544651		Top Speed of Vehicle, 60 MPH, Commercial Chassis	1
	0567695		Suspension, Rear Spring, Reyco 23,000 lb, w/ Aux, Kw/Peterbilt	1
	0693869		Tires, Bridgestone, 11R22.50	1
			-	

Pierce Painted   Tire Pressure Monitoring, RealWheels, AirSecure, Valve Cap, Single Axle			
Single Axle	34 0629685		1
\text{Qty, Tire Pressure Ind - 6} \text{Aud Flaps, w/logo front & rear} \text{ as 0532930} \text{ Chocks, Wheel, Pumper, Provided by Fire Department } \text{ as 0544690} \text{ Mounting Brackets, Chocks, Provided by Fire Department } \text{ as 0567694} \text{ ABS, Bendix Anti-Lock Braking System, Peterbilt } \text{ as 01012013} \text{ Brakes, Cam Front, 16.50"x 5.00" Kw/Pete } \text{ at 0555998} \text{ Air Compressor, Brake, Cummins/PX-8, 18.7 CFM, Kw/Pete } \text{ at 0555998} \text{ Air Chyer, Brake, AD-IS w/Heater, Peterbilt } \text{ at 0701574} \text{ Air Inlet, w/Disconnect Coupling, Commercial Chassis } \text{ Location, Air Coupling(S) - y) DS Step Area } \text{ 4 0650959} \text{ Engine, Paccar PX-9, 350 hp, Peterbilt, 2013 Emissions } \text{ 1 16 de will-electronic Engine, Commercial } \text{ 4 06509774} \text{ Auxiliary Brake, Turbo Exhaust Brake, Peterbilt } \text{ 4 0567774} \text{ Auxiliary Brake, Turbo Exhaust Brake, Peterbilt } \text{ 4 0567774} \text{ Auxiliary Brake, 2010, Horizontal, RH Step Mounted DPF/SCR, 2/4 Door, KW/Pete } \text{ Exhaust Modifications, Kw / Peterbilt, Horizontal, PS Exit } \text{ 5 00589029} \text{ Coolant Hoses, Silicone, Radiator and Heater, Commercial Chassis } \text{ Det Tank, 10 gallon, LH, Bright Wrap, KW T370, PB } \text{ 5 0058778} \text{ Not Required, Fuel Priming Pump } \text{ Not Required, Fuel Priming Pump } \text{ Not Required, Fuel Priming Pump } \text{ Not Required, Shutoff Valve, Fuel Line } \text{ Cooler, Chassis Fuel, Not Reqd. } \text{ Trans, Automatic, Allison 3000 EVS, w/(2) PTO Provisions, Peterbilt Transmission Oil Cooler, External, Commr Driveline, Commr Chassis } \text{ Trans, Tatio - 3000 EVS, SSpd } \text{ Transmission Oil Cooler, External, Commr Driveline, Commr Chassis } \text{ Stering, TRW TAS 65, Tilt/Telescoping, Peterbilt, Kw } \text{ Bumper, Garodynamic, Chromed Steel, Non-extd, Peterbilt } \text{ Tow Pins, Front, Kw, Peterbilt } \text{ Go 566769} \text{ Bumper, Garodynamic, Chromed Steel, Non-extd, Peterbilt } \text{ Mirows, Peterbilt } \te	35 0620570	· · · · · · · · · · · · · · · · · · ·	1
Chocks, Wheel, Pumper, Provided by Fire Department Mounting Brackets, Chocks, Provided by Fire Department Brackets, Chocks, Provided by Fire Department ABS, Bendix Anti-Lock Braking System, Peterbilt Brakes, Cam Front, 16.50°x 5.00° Kw/Pete Air Compressor, Brake, Cummins/PX-8, 18.7 CFM, Kw/Pete Air Compressor, Brake, Cummins/PX-8, 18.7 CFM, Kw/Pete Air Office Brakes, Cam Front, 16.50°x 5.00° Kw/Pete Air Compressor, Brake, Cummins/PX-8, 18.7 CFM, Kw/Pete Air Office Brakes, Cam Front, 16.50°x 5.00° Kw/Pete Air Compressor, Brake, Cummins/PX-8, 18.7 CFM, Kw/Pete Air Office Brakes, Cam Front, 16.50°x 5.00° Kw/Pete Air Inlet, w/Disconnect Coupling, Commercial Chassis Location, Air Coupling(s) - y) DS Step Area Air Inlet, w/Disconnect Coupling, Commercial Chassis Location, Air Coupling(s) - y) DS Step Area Air Inlet, w/Disconnect Coupling, Commercial Chassis Air Inlet, w/Disconnect Coupling, Commercial Chassis Air Inlet, w/Ember Separator, Supplier Installed, Peterbilt Air Office Air Intake, w/Ember Separator, Supplier Installed, Peterbilt Air Office Air Intake, w/Ember Separator, Supplier Installed, Peterbilt Air Office Air Intake, w/Ember Separator, Supplier Installed, Peterbilt Air Office Air Intake, w/Ember Separator, Supplier Installed, Peterbilt Air Office Air Intake, w/Ember Separator, Supplier Installed, Peterbilt Air Office Air Intake, w/Ember Separator, Supplier Installed, Peterbilt Air Office Air Intake, w/Ember Separator, Supplier Installed, Peterbilt Air Office Air Intake, w/Ember Separator, Supplier Installed, Peterbilt Air Office Air Intake, w/Ember Separator, Supplier Installed, Peterbilt Air Office Air Intake, w/Ember Separator, Supplier Installed, Peterbilt Air Office Air Intake, w/Ember Separator, Supplier Installed, Peterbilt Air Office Air Intake, W/Ember Separator, Supplier Installed, Peterbilt Air Office Air Intake, W/Ember Separator, Supplier Installed, Peterbilt Air Office Air Intake, W/Ember Separator, Supplier Installed, Peterbilt Air Office Air Intake, W/Ember Separator, Supplier Installed,			
38 0544690         Mounting Brackets, Chocks, Provided by Fire Department           39 0567694         ABS, Bendix Anti-Lock Braking System, Peterbilt           40 0012013         Brakes, Cam Front, 16.50"x 5.00" Kw/Pete           41 0555998         Air Compressor, Brake, Cummins/PX-8, 18.7 CFM, Kw/Pete           42 0665853         Air Dryer, Brake, AD-Is w/Heater, Peterbilt           43 0010574         Air Inlet, w/Disconnect Coupling, Commercial Chassis           40 0650959         Engine, Paccar PX-9, 350 hp, Peterbilt, 2013 Emissions           45 0001247         High Idle w/Electronic Engine, Commercial           46 0567774         Auxiliary Brake, Turbo Exhaust Brake, Peterbilt           47 0567668         Air Intake, w/Ember Separator, Supplier Installed, Peterbilt           48 0586931         Exhaust System, 2010, Horizontal, RH Step Mounted DPF/SCR, 2/4 Door, KW/Pete           49 0584339         Exhaust Modifications, Kw / Peterbilt, Horizontal, PS Exit           50 0589029         Coolant Hoses, Silicone, Radiator and Heater, Commercial Chassis           51 0567675         Fuel Tank, 50 Gallon, Left Side, Polished Aluminum, Peterbilt           52 0654889         DEF Tank, 11 gallon, LH, Bright Wrap, KW T370, PB           53 0552712         Not Required, Fuel Priming Pump           50 023746         Cooler, Chassis Fuel, Not Reqd.           50 0567781         Trans Automatic, Allison 3000	36 0002045	Mud Flaps, w/logo front & rear	1
39         0567694         ABS, Bendix Anti-Lock Braking System, Peterbilt           40         0012013         Brakes, Cam Front, 16.50"x 5.00" Kw/Pete           41         0555998         Air Compressor, Brake, Cummins/PX-8, 18.7 CFM, Kw/Pete           42         0665853         Air Dryer, Brake, AD-IS w/Heater, Peterbilt           43         0010574         Air Inlet, w/Disconnect Coupling, Commercial Chassis           44         0650959         Engine, Paccar PX-9, 350 hp, Peterbilt, 2013 Emissions           45         0001247         High Idle w/Electronic Engine, Commercial           46         0567774         Auxiliary Brake, Turbo Exhaust Brake, Peterbilt           47         0567668         Air Intake, w/Ember Separator, Supplier Installed, Peterbilt           48         0586931         Exhaust System, 2010, Horizontal, RH Step Mounted DPF/SCR, 2/4 Door, Kw/Pete           49         0584339         Exhaust Modifications, Kw / Peterbilt, Horizontal, PS Exit           50         0589029         Coolant Hoses, Silicone, Radiator and Heater, Commercial Chassis           51         0567675         Fuel Tank, 50 Gallon, Left Side, Polished Aluminum, Peterbilt           52         0684889         DEF Tank, 11 gallon, LH, Bright Wrap, kW T370, PB           53         0552793         Not Required, Shutoff Valve, Fuel Line           56	37 0532930	Chocks, Wheel, Pumper, Provided by Fire Department	1
40 0012013 Brakes, Cam Front, 16.50"x 5.00" Kw/Pete 41 0555998 Air Compressor, Brake, Cummins/PX-8, 18.7 CFM, Kw/Pete 42 0665853 Air Dryer, Brake, AD-IS w/Heater, Peterbilt 43 0010574 Air Inlet, w/Disconnect Coupling, Commercial Chassis	38 0544690	Mounting Brackets, Chocks, Provided by Fire Department	1
41 0555998         Air Compressor, Brake, Cummins/PX-8, 18.7 CFM, Kw/Pete           42 0665853         Air Dryer, Brake, AD-IS w/Heater, Peterbilt           43 0010574         Air Inlet, w/Disconnect Coupling, Commercial Chassis           Location, Air Coupling(s) - y) DS Step Area           44 0650959         Engine, Paccar PX-9, 350 hp, Peterbilt, 2013 Emissions           45 0001247         High Idle w/Electronic Engine, Commercial           46 0567774         Auxiliary Brake, Turbo Exhaust Brake, Peterbilt           47 0567668         Air Intake, w/Ember Separator, Supplier Installed, Peterbilt           48 0586931         Exhaust System, 2010, Horizontal, RH Step Mounted DPF/SCR, 2/4 Door, KW/Pete           49 0584339         Exhaust Modifications, Kw / Peterbilt, Horizontal, PS Exit           50 0589029         Coolant Hoses, Silicone, Radiator and Heater, Commercial Chassis           51 0567675         Fuel Tank, 50 Gallon, Left Side, Polished Aluminum, Peterbilt           52 0654889         DEF Tank, 11 gallon, LH, Bright Wrap, KW T370, PB           53 0552793         Not Required, Fuel Priming Pump           54 0552712         Not Required, Shutoff Valve, Fuel Line           56 0567781         Trans, Automatic, Allison 3000 EVS, w/(2) PTO Provisions, Peterbilt           57 0024593         Transmission Oil Cooler, External, Commr           59 0011370         Driveline, Commr Chassis	39 0567694	ABS, Bendix Anti-Lock Braking System, Peterbilt	1
Air Dryer, Brake, AD-IS w/Heater, Peterbilt Air Inlet, w/Disconnect Coupling, Commercial Chassis Location, Air Coupling(s) - y) DS Step Area  44 0650959	40 0012013	Brakes, Cam Front, 16.50"x 5.00" Kw/Pete	1
Air Inlet, w/Disconnect Coupling, Commercial Chassis Location, Air Coupling(s) - y) DS Step Area  44 0650959	41 0555998	Air Compressor, Brake, Cummins/PX-8, 18.7 CFM, Kw/Pete	1
Location, Air Coupling(s) - y) DS Step Area  44 0650959	42 0665853	Air Dryer, Brake, AD-IS w/Heater, Peterbilt	1
### 4 0650959 ### 1	43 0010574	Air Inlet, w/Disconnect Coupling, Commercial Chassis	1
High Idle w/Electronic Engine, Commercial  46 0567774 Auxiliary Brake, Turbo Exhaust Brake, Peterbilt  47 0567668 Air Intake, w/Ember Separator, Supplier Installed, Peterbilt  48 0586931 Exhaust System, 2010, Horizontal, RH Step Mounted DPF/SCR, 2/4 Door, KW/Pete  49 0584939 Exhaust Modifications, Kw / Peterbilt, Horizontal, PS Exit  50 0589029 Coolant Hoses, Silicone, Radiator and Heater, Commercial Chassis  51 0567675 Fuel Tank, 50 Gallon, Left Side, Polished Aluminum, Peterbilt  52 0654889 DEF Tank, 11 gallon, LH, Bright Wrap, KW T370, PB  53 0552793 Not Required, Fluel Priming Pump  54 0552712 Not Required, Shutoff Valve, Fuel Line  55 0023746 Cooler, Chassis Fuel, Not Req'd.  56 0567781 Trans, Automatic, Allison 3000 EVS, w/(2) PTO Provisions, Peterbilt  57 0024593 Transmission, Shifter, Push Button, 5 Speed, KW/Pete  Trans, ratio - 3000 EVS, 5Spd  58 0012875 Transmission Oil Cooler, External, Commr  59 0011370 Driveline, Commr Chassis  60 0567701 Steering, TRW TAS 65, Tilt/Telescoping, Peterbilt, Kw  61 0585826 Bumper, Aerodynamic, Chromed Steel, Non-extd, Peterbilt  62 0545321 Tow Pins, Front, Kw, Peterbilt  63 0072224 Bumper Gap, Commercial  64 0041856 Cab, Peterbilt, 2-door  65 0566857 Cab Interior, Peterbilt, Grey/Black  66 0582771 Grille, Polished Stainless Steel, Peterbilt  67 0567679 Mirrors, Stainless Steel, Heated & Remote, Convex, Peterbilt  68 0027014 Window, Peeper Window RH Door  69 0567762 Step Package, Standard, Peterbilt 2-Door, NFPA Compliant  10 0509487 Lights, Cab Access Steps, P25, LED, 4 Lights  71 0567684 Air Conditioning, Peterbilt  72 0005940 Lights, Engine Compt, (2) Commercial Chassis  73 0030874 Console, KW/Pete, Two (2) Door, Radios, Map Storage		Location, Air Coupling(s) - y) DS Step Area	
Auxiliary Brake, Turbo Exhaust Brake, Peterbilt Ar 0567668 Air Intake, w/Ember Separator, Supplier Installed, Peterbilt Exhaust System, 2010, Horizontal, RH Step Mounted DPF/SCR, 2/4 Door, KW/Pete Exhaust Modifications, Kw / Peterbilt, Horizontal, PS Exit Coolant Hoses, Silicone, Radiator and Heater, Commercial Chassis Coolant Hoses, Silicone, Radiator and Heater, Commercial Chassis DEF Tank, 50 Gallon, Left Side, Polished Aluminum, Peterbilt DEF Tank, 11 gallon, LH, Bright Wrap, KW T370, PB Not Required, Fuel Priming Pump Not Required, Shutoff Valve, Fuel Line Cooler, Chassis Fuel, Not Req'd. Cooler, Chassis Fuel, Not Req'd. Trans, Automatic, Allison 3000 EVS, w/(2) PTO Provisions, Peterbilt Transmission, Shifter, Push Button, 5 Speed, KW/Pete Trans, ratio - 3000 EVS, 5Spd Transmission Oil Cooler, External, Commr Driveline, Commr Chassis Cooff7701 Steering, TRW TAS 65, Tilt/Telescoping, Peterbilt, Kw Setering, TRW TAS 65, Tilt/Telescoping, Peterbilt Tow Pins, Front, Kw, Peterbilt Dwmper, Aerodynamic, Chromed Steel, Non-extd, Peterbilt Tow Pins, Front, Kw, Peterbilt Dwmper Gap, Commercial House Gab, Ceb, Peterbilt, Grey/Black Cab, Peterbilt, 2-door Cab Interior, Peterbilt, Grey/Black Goserrol Goserr	44 0650959	Engine, Paccar PX-9, 350 hp, Peterbilt, 2013 Emissions	1
Air Intake, w/Ember Separator, Supplier Installed, Peterbilt  8 0586931 Exhaust System, 2010, Horizontal, RH Step Mounted DPF/SCR, 2/4 Door, KW/Pete  49 0584339 Exhaust Modifications, Kw / Peterbilt, Horizontal, PS Exit  50 0589029 Coolant Hoses, Silicone, Radiator and Heater, Commercial Chassis  51 0567675 Fuel Tank, 50 Gallon, Left Side, Polished Aluminum, Peterbilt  52 0654889 DEF Tank, 11 gallon, LH, Bright Wrap, KW T370, PB  53 0552793 Not Required, Fuel Priming Pump  54 0552712 Not Required, Shutoff Valve, Fuel Line  55 0023746 Cooler, Chassis Fuel, Not Req'd.  56 0567781 Trans, Automatic, Allison 3000 EVS, w/(2) PTO Provisions, Peterbilt  57 0024593 Transmission, Shifter, Push Button, 5 Speed, KW/Pete  Trans, ratio - 3000 EVS, 5Spd  58 0012875 Transmission Oil Cooler, External, Commr  59 0011370 Driveline, Commr Chassis  60 0567701 Steering, TRW TAS 65, Tilt/Telescoping, Peterbilt, Kw  61 0585826 Bumper, Aerodynamic, Chromed Steel, Non-extd, Peterbilt  62 0545321 Tow Pins, Front, Kw, Peterbilt  63 0072224 Bumper Gap, Commercial  64 0041856 Cab, Peterbilt, 2-door  65 0566857 Cab Interior, Peterbilt, Grey/Black  66 0582771 Grille, Polished Stainless Steel, Peterbilt  67 0567679 Mirrors, Stainless Steel, Heated & Remote, Convex, Peterbilt  68 0027014 Window, Peeper Window RH Door  69 0567762 Step Package, Standard, Peterbilt 2-Door, NFPA Compliant  70 0509487 Lights, Cab Access Steps, P25, LED, 4 Lights  71 0567684 Air Conditioning, Peterbilt  72 0005940 Lights, Engine Compt, (2) Commercial Chassis  73 0030874	45 0001247	High Idle w/Electronic Engine, Commercial	1
48 0586931         Exhaust System, 2010, Horizontal, RH Step Mounted DPF/SCR, 2/4 Door, KW/Pete           49 0584339         Exhaust Modifications, Kw / Peterbilt, Horizontal, PS Exit           50 0589029         Coolant Hoses, Silicone, Radiator and Heater, Commercial Chassis           51 0567675         Fuel Tank, 50 Gallon, Left Side, Polished Aluminum, Peterbilt           52 0654889         DEF Tank, 11 gallon, LH, Bright Wrap, KW T370, PB           53 0552793         Not Required, Fuel Priming Pump           54 0552712         Not Required, Shutoff Valve, Fuel Line           55 0023746         Cooler, Chassis Fuel, Not Req'd.           56 0567781         Trans, Automatic, Allison 3000 EVS, w/(2) PTO Provisions, Peterbilt           57 0024593         Transmission, Shifter, Push Button, 5 Speed, KW/Pete           Trans, ratio - 3000 EVS, 5Spd           58 0012875         Transmission Oil Cooler, External, Commr           59 0011370         Driveline, Commr Chassis           60 0567701         Steering, TRW TAS 65, Tilt/Telescoping, Peterbilt, Kw           61 0585826         Bumper, Aerodynamic, Chromed Steel, Non-extd, Peterbilt           62 0545321         Tow Pins, Front, Kw, Peterbilt           63 0072224         Bumper Gap, Commercial           64 0041856         Cab, Peterbilt, 2-door           65 0566857         Cab Interior, Peterbilt, Grey/Black	46 0567774	Auxiliary Brake, Turbo Exhaust Brake, Peterbilt	1
2/4 Door, KW/Pete 49 0584339 Exhaust Modifications, Kw / Peterbilt, Horizontal, PS Exit 50 0589029 Coolant Hoses, Silicone, Radiator and Heater, Commercial Chassis 51 0567675 Fuel Tank, 50 Gallon, Left Side, Polished Aluminum, Peterbilt 52 0654889 DEF Tank, 11 gallon, LH, Bright Wrap, KW T370, PB 53 0552793 Not Required, Fuel Priming Pump 54 0552712 Not Required, Shutoff Valve, Fuel Line 55 0023746 Cooler, Chassis Fuel, Not Req'd. 56 0567781 Trans, Automatic, Allison 3000 EVS, w/(2) PTO Provisions, Peterbilt 57 0024593 Transmission, Shifter, Push Button, 5 Speed, KW/Pete  Trans, ratio - 3000 EVS, 5Spd 58 0012875 Transmission Oil Cooler, External, Commr 59 0011370 Driveline, Commr Chassis 60 0567701 Steering, TRW TAS 65, Tilt/Telescoping, Peterbilt, Kw 61 0585826 Bumper, Aerodynamic, Chromed Steel, Non-extd, Peterbilt 62 0545321 Tow Pins, Front, Kw, Peterbilt 63 0072224 Bumper Gap, Commercial 64 0041856 Cab, Peterbilt, 2-door 65 0566857 Cab Interior, Peterbilt, Grey/Black 66 0582771 Grille, Polished Stainless Steel, Peterbilt 67 0567679 Mirrors, Stainless Steel, Heated & Remote, Convex, Peterbilt 68 0027014 Window, Peeper Window RH Door 69 0567762 Step Package, Standard, Peterbilt 2-Door, NFPA Compliant 69 0567762 Step Package, Standard, Peterbilt 2-Door, NFPA Compliant 67 0509487 Lights, Cab Access Steps, P25, LED, 4 Lights 67 0050940 Lights, Engine Compt, (2) Commercial Chassis 67 0030874 Console, KW/Pete, Two (2) Door, Radios, Map Storage	47 0567668	Air Intake, w/Ember Separator, Supplier Installed, Peterbilt	1
Coolant Hoses, Silicone, Radiator and Heater, Commercial Chassis  51 0567675 Fuel Tank, 50 Gallon, Left Side, Polished Aluminum, Peterbilt  52 0654889 DEF Tank, 11 gallon, LH, Bright Wrap, KW T370, PB  53 0552793 Not Required, Fuel Priming Pump  54 0552712 Not Required, Shutoff Valve, Fuel Line  55 0023746 Cooler, Chassis Fuel, Not Req'd.  56 0567781 Trans, Automatic, Allison 3000 EVS, w/(2) PTO Provisions, Peterbilt  57 0024593 Transmission, Shifter, Push Button, 5 Speed, KW/Pete  Trans, ratio - 3000 EVS, 5Spd  58 0012875 Transmission Oil Cooler, External, Commr  59 0011370 Driveline, Commr Chassis  60 0567701 Steering, TRW TAS 65, Tilt/Telescoping, Peterbilt, Kw  61 0585826 Bumper, Aerodynamic, Chromed Steel, Non-extd, Peterbilt  62 0545321 Tow Pins, Front, Kw, Peterbilt  63 0072224 Bumper Gap, Commercial  64 0041856 Cab, Peterbilt, 2-door  65 0566857 Cab Interior, Peterbilt, Grey/Black  66 0582771 Grille, Polished Stainless Steel, Peterbilt  67 0567679 Mirrors, Stainless Steel, Peterbilt  68 0027014 Window, Peeper Window RH Door  69 0567762 Step Package, Standard, Peterbilt 2-Door, NFPA Compliant  69 0567762 Step Package, Standard, Peterbilt 2-Door, NFPA Compliant  60 050940 Lights, Engine Compt, (2) Commercial Chassis  70 0030874 Console, KW/Pete, Two (2) Door, Radios, Map Storage	48 0586931	· · · · · · · · · · · · · · · · · · ·	1
Chassis 51 0567675 Fuel Tank, 50 Gallon, Left Side, Polished Aluminum, Peterbilt 52 0654889 DEF Tank, 11 gallon, LH, Bright Wrap, KW T370, PB 53 0552793 Not Required, Fuel Priming Pump 54 0552712 Not Required, Shutoff Valve, Fuel Line 55 0023746 Cooler, Chassis Fuel, Not Req'd. 56 0567781 Trans, Automatic, Allison 3000 EVS, w/(2) PTO Provisions, Peterbilt 57 0024593 Transmission, Shifter, Push Button, 5 Speed, KW/Pete  Trans, ratio - 3000 EVS, 5Spd 58 0012875 Transmission Oil Cooler, External, Commr 59 0011370 Driveline, Commr Chassis 60 0567701 Steering, TRW TAS 65, Tilt/Telescoping, Peterbilt, Kw 61 0585826 Bumper, Aerodynamic, Chromed Steel, Non-extd, Peterbilt 62 0545321 Tow Pins, Front, Kw, Peterbilt 63 0072224 Bumper Gap, Commercial 64 0041856 Cab, Peterbilt, 2-door 65 0566857 Cab Interior, Peterbilt, Grey/Black 60 0582771 Grille, Polished Stainless Steel, Peterbilt 67 056769 Mirrors, Stainless Steel, Heated & Remote, Convex, Peterbilt 68 0027014 Window, Peeper Window RH Door 69 0567762 Step Package, Standard, Peterbilt 2-Door, NFPA Compliant 70 0509487 Lights, Cab Access Steps, P25, LED, 4 Lights 71 0567684 Air Conditioning, Peterbilt 72 0005940 Lights, Engine Compt, (2) Commercial Chassis 73 0030874 Console, KW/Pete, Two (2) Door, Radios, Map Storage	49 0584339	Exhaust Modifications, Kw / Peterbilt, Horizontal, PS Exit	1
52 0654889         DEF Tank, 11 gallon, LH, Bright Wrap, KW T370, PB           53 0552793         Not Required, Fuel Priming Pump           54 0552712         Not Required, Shutoff Valve, Fuel Line           55 0023746         Cooler, Chassis Fuel, Not Req'd.           56 0567781         Trans, Automatic, Allison 3000 EVS, w/(2) PTO Provisions, Peterbilt           57 0024593         Transmission, Shifter, Push Button, 5 Speed, KW/Pete           Trans, ratio - 3000 EVS, 5Spd           58 0012875         Transmission Oil Cooler, External, Commr           59 0011370         Driveline, Commr Chassis           60 0567701         Steering, TRW TAS 65, Tilt/Telescoping, Peterbilt, Kw           61 0585826         Bumper, Aerodynamic, Chromed Steel, Non-extd, Peterbilt           62 0545321         Tow Pins, Front, Kw, Peterbilt           63 0072224         Bumper Gap, Commercial           64 0041856         Cab, Peterbilt, 2-door           65 0566857         Cab Interior, Peterbilt, Grey/Black           66 0582771         Grille, Polished Stainless Steel, Peterbilt           67 0567679         Mirrors, Stainless Steel, Heated & Remote, Convex, Peterbilt           68 0027014         Window, Peeper Window RH Door           69 0567762         Step Package, Standard, Peterbilt 2-Door, NFPA Compliant           70 0509487         Lights, Cab Access St	50 0589029	·	1
Not Required, Fuel Priming Pump  54 0552712 Not Required, Shutoff Valve, Fuel Line  55 0023746 Cooler, Chassis Fuel, Not Req'd.  56 0567781 Trans, Automatic, Allison 3000 EVS, w/(2) PTO Provisions, Peterbilt  57 0024593 Transmission, Shifter, Push Button, 5 Speed, KW/Pete  Trans, ratio - 3000 EVS, 5Spd  58 0012875 Transmission Oil Cooler, External, Commr  59 0011370 Driveline, Commr Chassis  60 0567701 Steering, TRW TAS 65, Tilt/Telescoping, Peterbilt, Kw  61 0585826 Bumper, Aerodynamic, Chromed Steel, Non-extd, Peterbilt  62 0545321 Tow Pins, Front, Kw, Peterbilt  63 0072224 Bumper Gap, Commercial  64 0041856 Cab, Peterbilt, 2-door  65 0566857 Cab Interior, Peterbilt, Grey/Black  66 0582771 Grille, Polished Stainless Steel, Peterbilt  67 0567679 Mirrors, Stainless Steel, Heated & Remote, Convex, Peterbilt  68 0027014 Window, Peeper Window RH Door  69 0567762 Step Package, Standard, Peterbilt 2-Door, NFPA Compliant  70 0509487 Lights, Cab Access Steps, P25, LED, 4 Lights  71 0567684 Air Conditioning, Peterbilt  72 0005940 Lights, Engine Compt, (2) Commercial Chassis  73 0030874 Console, KW/Pete, Two (2) Door, Radios, Map Storage	51 0567675	Fuel Tank, 50 Gallon, Left Side, Polished Aluminum, Peterbilt	1
Not Required, Shutoff Valve, Fuel Line  Cooler, Chassis Fuel, Not Req'd.  Trans, Automatic, Allison 3000 EVS, w/(2) PTO Provisions, Peterbilt  Transmission, Shifter, Push Button, 5 Speed, KW/Pete  Trans, ratio - 3000 EVS, 5Spd  Transmission Oil Cooler, External, Commr  Transmission Oil Cooler, External, Commr  Steering, TRW TAS 65, Tilt/Telescoping, Peterbilt, Kw  Steering, TRW TAS 65, Tilt/Telescoping, Peterbilt, Kw  Moreover Bumper, Aerodynamic, Chromed Steel, Non-extd, Peterbilt  Tow Pins, Front, Kw, Peterbilt  Tow Pins, Front, Kw, Peterbilt  Cab, Peterbilt, 2-door  Cab Interior, Peterbilt, Grey/Black  Steel, Peterbilt  Totoforor  Totoforor  Mirrors, Stainless Steel, Heated & Remote, Convex, Peterbilt  Window, Peeper Window RH Door  Step Package, Standard, Peterbilt 2-Door, NFPA Compliant  Totoforor  Lights, Cab Access Steps, P25, LED, 4 Lights  Air Conditioning, Peterbilt  Lights, Engine Compt, (2) Commercial Chassis	52 0654889	DEF Tank, 11 gallon, LH, Bright Wrap, KW T370, PB	1
Cooler, Chassis Fuel, Not Req'd. Trans, Automatic, Allison 3000 EVS, w/(2) PTO Provisions, Peterbilt Transmission, Shifter, Push Button, 5 Speed, KW/Pete Trans, ratio - 3000 EVS, 5Spd Transmission Oil Cooler, External, Commr Driveline, Commr Chassis Driveline, Commr Chassis Steering, TRW TAS 65, Tilt/Telescoping, Peterbilt, Kw Bumper, Aerodynamic, Chromed Steel, Non-extd, Peterbilt Tow Pins, Front, Kw, Peterbilt Morting Agray Bumper Gap, Commercial Cab, Peterbilt, 2-door Cab Interior, Peterbilt, Grey/Black Go582771 Grille, Polished Stainless Steel, Peterbilt Go567679 Mirrors, Stainless Steel, Heated & Remote, Convex, Peterbilt Mindow, Peeper Window RH Door Go567762 Step Package, Standard, Peterbilt 2-Door, NFPA Compliant Lights, Cab Access Steps, P25, LED, 4 Lights Toosofea Gonsole, KW/Pete, Two (2) Door, Radios, Map Storage	53 0552793	Not Required, Fuel Priming Pump	1
Trans, Automatic, Allison 3000 EVS, w/(2) PTO Provisions, Peterbilt  Transmission, Shifter, Push Button, 5 Speed, KW/Pete Trans, ratio - 3000 EVS, 5Spd  Transmission Oil Cooler, External, Commr  Driveline, Commr Chassis  Tours, TRW TAS 65, Tilt/Telescoping, Peterbilt, Kw  Steering, TRW TAS 65, Tilt/Telescoping, Peterbilt, Kw  Steering, Trow Pins, Front, Kw, Peterbilt  Tow Pins, Front, Kw, Peterbilt  Mumper Gap, Commercial  Cab, Peterbilt, 2-door  Cab Interior, Peterbilt, Grey/Black  Steel, Peterbilt  Mirrors, Stainless Steel, Peterbilt  Mirrors, Stainless Steel, Heated & Remote, Convex, Peterbilt  Mindow, Peeper Window RH Door  Step Package, Standard, Peterbilt 2-Door, NFPA Compliant  Josopada  Lights, Cab Access Steps, P25, LED, 4 Lights  Air Conditioning, Peterbilt  Console, KW/Pete, Two (2) Door, Radios, Map Storage	54 0552712	Not Required, Shutoff Valve, Fuel Line	1
Peterbilt Transmission, Shifter, Push Button, 5 Speed, KW/Pete Trans, ratio - 3000 EVS, 5Spd  58 0012875 Transmission Oil Cooler, External, Commr  59 0011370 Driveline, Commr Chassis 60 0567701 Steering, TRW TAS 65, Tilt/Telescoping, Peterbilt, Kw 61 0585826 Bumper, Aerodynamic, Chromed Steel, Non-extd, Peterbilt 62 0545321 Tow Pins, Front, Kw, Peterbilt 63 0072224 Bumper Gap, Commercial 64 0041856 Cab, Peterbilt, 2-door 65 0566857 Cab Interior, Peterbilt, Grey/Black 66 0582771 Grille, Polished Stainless Steel, Peterbilt 67 0567679 Mirrors, Stainless Steel, Heated & Remote, Convex, Peterbilt 68 0027014 Window, Peeper Window RH Door 69 0567762 Step Package, Standard, Peterbilt 2-Door, NFPA Compliant 70 0509487 Lights, Cab Access Steps, P25, LED, 4 Lights 71 0567684 Air Conditioning, Peterbilt 72 0005940 Lights, Engine Compt, (2) Commercial Chassis 73 0030874 Console, KW/Pete, Two (2) Door, Radios, Map Storage	55 0023746	Cooler, Chassis Fuel, Not Req'd.	1
Trans, ratio - 3000 EVS, 5Spd  Transmission Oil Cooler, External, Commr  priveline, Commr Chassis  Steering, TRW TAS 65, Tilt/Telescoping, Peterbilt, Kw  Steel, Non-extd, Peterbilt  Steering, TRW TAS 65, Tilt/Telescoping, Peterbilt, Telescoping, Peterbilt, Telescoping, Peterbilt  Steel, Non-extd, Peterbilt  Steel, Peterbilt, Grey/Black  Steel, Peterbilt, Grey/Black  Steel, Peterbilt, Grey/Black  Steel, Peterbilt  Steel, Peterbilt  Steel, Peterbilt  Steel, Heated & Remote, Convex, Peterbilt  Step Package, Standard, Peterbilt 2-Door, NFPA Compliant  Lights, Cab Access Steps, P25, LED, 4 Lights  Air Conditioning, Peterbilt  Step Package, Compt, (2) Commercial Chassis  Step Package, Kw/Pete, Two (2) Door, Radios, Map Storage	56 0567781		1
Transmission Oil Cooler, External, Commr Driveline, Commr Chassis Steering, TRW TAS 65, Tilt/Telescoping, Peterbilt, Kw Bumper, Aerodynamic, Chromed Steel, Non-extd, Peterbilt Tow Pins, Front, Kw, Peterbilt Bumper Gap, Commercial Cab, Peterbilt, 2-door Cab Interior, Peterbilt, Grey/Black Go582771 Grille, Polished Stainless Steel, Peterbilt Go27014 Window, Peeper Window RH Door Step Package, Standard, Peterbilt 2-Door, NFPA Compliant Lights, Cab Access Steps, P25, LED, 4 Lights Air Conditioning, Peterbilt Console, KW/Pete, Two (2) Door, Radios, Map Storage	57 0024593	Transmission, Shifter, Push Button, 5 Speed, KW/Pete	1
Driveline, Commr Chassis  Steering, TRW TAS 65, Tilt/Telescoping, Peterbilt, Kw  Bumper, Aerodynamic, Chromed Steel, Non-extd, Peterbilt  Tow Pins, Front, Kw, Peterbilt  Bumper Gap, Commercial  Cab, Peterbilt, 2-door  Cab Interior, Peterbilt, Grey/Black  Goseary Grille, Polished Stainless Steel, Peterbilt  Mirrors, Stainless Steel, Heated & Remote, Convex, Peterbilt  Mirrors, Stainless Steel, Heated & Remote, Convex, Peterbilt  Window, Peeper Window RH Door  Step Package, Standard, Peterbilt 2-Door, NFPA Compliant  Lights, Cab Access Steps, P25, LED, 4 Lights  Air Conditioning, Peterbilt  Joseph Grille, Polished Compt, (2) Commercial Chassis  Console, KW/Pete, Two (2) Door, Radios, Map Storage		Trans, ratio - 3000 EVS, 5Spd	
Steering, TRW TAS 65, Tilt/Telescoping, Peterbilt, Kw Bumper, Aerodynamic, Chromed Steel, Non-extd, Peterbilt Tow Pins, Front, Kw, Peterbilt Bumper Gap, Commercial Cab, Peterbilt, 2-door Cab Interior, Peterbilt, Grey/Black Go582771 Grille, Polished Stainless Steel, Peterbilt Go27014 Window, Peeper Window RH Door Step Package, Standard, Peterbilt 2-Door, NFPA Compliant Lights, Cab Access Steps, P25, LED, 4 Lights Air Conditioning, Peterbilt Cab, Peterbi	58 0012875		1
Bumper, Aerodynamic, Chromed Steel, Non-extd, Peterbilt Tow Pins, Front, Kw, Peterbilt Bumper Gap, Commercial Cab, Peterbilt, 2-door Cab Interior, Peterbilt, Grey/Black Gosservi Grille, Polished Stainless Steel, Peterbilt Gosevi Grille, Polished Stainless Steel, Peterbilt Gosevi Grille, Polished Stainless Steel, Heated & Remote, Convex, Peterbilt Mirrors, Stainless Steel, Heated & Remote, Convex, Peterbilt Window, Peeper Window RH Door Gosevi Grille, Polished Stainless Steel, Heated & Remote, Convex, Peterbilt Step Package, Standard, Peterbilt 2-Door, NFPA Compliant Lights, Cab Access Steps, P25, LED, 4 Lights Air Conditioning, Peterbilt Lights, Engine Compt, (2) Commercial Chassis Console, KW/Pete, Two (2) Door, Radios, Map Storage	59 0011370	Driveline, Commr Chassis	1
62 0545321Tow Pins, Front, Kw, Peterbilt63 0072224Bumper Gap, Commercial64 0041856Cab, Peterbilt, 2-door65 0566857Cab Interior, Peterbilt, Grey/Black66 0582771Grille, Polished Stainless Steel, Peterbilt67 0567679Mirrors, Stainless Steel, Heated & Remote, Convex, Peterbilt68 0027014Window, Peeper Window RH Door69 0567762Step Package, Standard, Peterbilt 2-Door, NFPA Compliant70 0509487Lights, Cab Access Steps, P25, LED, 4 Lights71 0567684Air Conditioning, Peterbilt72 0005940Lights, Engine Compt, (2) Commercial Chassis73 0030874Console, KW/Pete, Two (2) Door, Radios, Map Storage	60 0567701		1
Bumper Gap, Commercial Cab, Peterbilt, 2-door Cab Interior, Peterbilt, Grey/Black Grille, Polished Stainless Steel, Peterbilt Mirrors, Stainless Steel, Heated & Remote, Convex, Peterbilt Window, Peeper Window RH Door Step Package, Standard, Peterbilt 2-Door, NFPA Compliant Lights, Cab Access Steps, P25, LED, 4 Lights Air Conditioning, Peterbilt Lights, Engine Compt, (2) Commercial Chassis Console, KW/Pete, Two (2) Door, Radios, Map Storage			1
Cab, Peterbilt, 2-door Cab Interior, Peterbilt, Grey/Black Gound Stainless Steel, Peterbilt Group Stainless Steel, Heated & Remote, Convex, Peterbilt Mirrors, Stainless Steel, Heated & Remote, Convex, Peterbilt Window, Peeper Window RH Door Step Package, Standard, Peterbilt 2-Door, NFPA Compliant Lights, Cab Access Steps, P25, LED, 4 Lights Air Conditioning, Peterbilt Lights, Engine Compt, (2) Commercial Chassis Console, KW/Pete, Two (2) Door, Radios, Map Storage			1
Cab Interior, Peterbilt, Grey/Black G 0582771 Grille, Polished Stainless Steel, Peterbilt Mirrors, Stainless Steel, Heated & Remote, Convex, Peterbilt Window, Peeper Window RH Door Step Package, Standard, Peterbilt 2-Door, NFPA Compliant Lights, Cab Access Steps, P25, LED, 4 Lights Air Conditioning, Peterbilt Lights, Engine Compt, (2) Commercial Chassis Console, KW/Pete, Two (2) Door, Radios, Map Storage			1
Grille, Polished Stainless Steel, Peterbilt Mirrors, Stainless Steel, Heated & Remote, Convex, Peterbilt Window, Peeper Window RH Door Step Package, Standard, Peterbilt 2-Door, NFPA Compliant Lights, Cab Access Steps, P25, LED, 4 Lights Air Conditioning, Peterbilt Lights, Engine Compt, (2) Commercial Chassis Console, KW/Pete, Two (2) Door, Radios, Map Storage		·	1
Mirrors, Stainless Steel, Heated & Remote, Convex, Peterbilt Window, Peeper Window RH Door Step Package, Standard, Peterbilt 2-Door, NFPA Compliant Lights, Cab Access Steps, P25, LED, 4 Lights Air Conditioning, Peterbilt Lights, Engine Compt, (2) Commercial Chassis Console, KW/Pete, Two (2) Door, Radios, Map Storage		•	1
Window, Peeper Window RH Door  Step Package, Standard, Peterbilt 2-Door, NFPA Compliant  Lights, Cab Access Steps, P25, LED, 4 Lights  Air Conditioning, Peterbilt  Console, KW/Pete, Two (2) Door, Radios, Map Storage			1
69 0567762 Step Package, Standard, Peterbilt 2-Door, NFPA Compliant 70 0509487 Lights, Cab Access Steps, P25, LED, 4 Lights 71 0567684 Air Conditioning, Peterbilt 72 0005940 Lights, Engine Compt, (2) Commercial Chassis 73 0030874 Console, KW/Pete, Two (2) Door, Radios, Map Storage			1
70 0509487 Lights, Cab Access Steps, P25, LED, 4 Lights 71 0567684 Air Conditioning, Peterbilt 72 0005940 Lights, Engine Compt, (2) Commercial Chassis 73 0030874 Console, KW/Pete, Two (2) Door, Radios, Map Storage		•	1
71 0567684 Air Conditioning, Peterbilt 72 0005940 Lights, Engine Compt, (2) Commercial Chassis 73 0030874 Console, KW/Pete, Two (2) Door, Radios, Map Storage			1
72 0005940 Lights, Engine Compt, (2) Commercial Chassis 73 0030874 Console, KW/Pete, Two (2) Door, Radios, Map Storage			1
73 0030874 Console, KW/Pete, Two (2) Door, Radios, Map Storage		-	1
			1
74 0004000 Seating Capacity, Cab, Commercial, NOT FOR FUTURE USE		• • • • • • • • • • • • • • • • • • • •	1
	74 0004000	Seating Capacity, Cab, Confinercial, NOT FOR FUTURE USE	2

Qty, - 02

		Qty, - 02	
75	0624102	Seating Capacity, Cab, 2-Door, Commercial	2
		Qty, - 02	
76	0585847	Seats, Cab, Air driver w/Air Companion Seat, Peterbilt	1
77	0073999	No Crew Cab Seats, 2-door cab	1
78	0551164	Seat Belt Web Length, Commercial Chassis	1
79	0584364	Seat Belts, Red, Commercial Chassis	1
80	0691237	Seat Belt Monitoring System	1
81	0543917	Helmet Storage, Provided by Fire Department	1
82	0556289	Lights, Dome, Weldon, 8081-8000-13 Red/Clear LED, Grey Bezel	1
		Qty, - 01	
		Location - overhead	
83	0544332	Portable Hand Light, Provided by Fire Department, Pumper NFPA Classification	1
84	0584358	Cab Instrumentation, Commercial Chassis	1
85	0034643	Panel, Emergency Switch, Located In Floor Mt'd Console	1
86	0005937	Light, Do not move apparatus, Commercial	1
		Alarm, Do Not Move Truck - Steady Alarm	
87	0005926	Light, Open Door - Commercial Std	1
88	0072620	Wiper control, intermittent feature Commercial	1
89	0637219	No RADIO, AM/FM	1
90	0626864	Not Required, Vehicle Information Center, No Multiplex System	1
91	0535234	Vehicle Data Recorder, Single Module	1
92	0622833	Traditional Direct Wired Electrical System, Commercial Chassis	1
93	0623076	Electrical System, Peterbilt 337, Pumper	1
94	0583990	Single Start, (2) PACCAR Premium, 2000 CCA	1
95	0583991	Batteries Relocated by Pierce, 2-Door Cab	1
		Location, Batteries - DS Front Compt	
96	0072685	Selector, Single Start Battery, Commercial Chassis	1
97	0036234	Receptacle, Battery Charging, Cab Step Area, Driver's Side	1
98	0012778	No Pick Required, Battery Charger Location	1
99	0530960	Not Required, Remote Battery Charger Indicator	1
100	0567771	Alternator, 270 amp, Kw/Peterbilt	1
101	0002765	Load Manager, Kussmaul Mark IV, (10) Channel	1
102	0517187	Cab Lighting, LED Marker Lights, Commercial Chassis	1
103	0627282	Lights, Clearance/Marker/ID, Rear, FRP LED Bar & P25 LED 4Lts	1
104	0535835	Lights, Tail, Weldon 3884-0100-1*, Tri-Lamp Cluster, LED Stop/Tail, Turn & Bckup	1
105	0085910	Lights, Backup Included in Signal Cluster	1
106	0664481	Bracket, License Plate & Light, P25 LED	1
107	0589905	Alarm, Back-up Warning, PRECO 1040	1
108	0654479	Lights, Perimeter Scene Cab Exits, TecNiq E10-WS00-1 LED, Angled Brkt, 2 Dr	1
		Z location - *	
109	0667322	Lights, Perimeter Scene, Truck-Lite 6060C LED Grmt (4) Lts Pump Panel/Rear Step	1
		Switch, Location, Perim - cab rocker switch	

110 0556360	Lights, Step, P25 LED 4lts, Pump Pnl Sw	1
111 0005955	Lights, Deck, Unity (2) AG, Rear, (1) Spot, (1) Flood	1
112 0645676	Lights, Not Required, Hose Bed, Deck Lights At Rear	1
113 0645681	Lights, Not Required, Rear Work, Deck Lights At Rear	1
114 0693709	Pumper, Medium, Aluminum, 2nd Gen, Saber/Commercial	1
115 0692368	Florida Value Discount, 2nd Generation Pumper	1
116 0554271	Body Skirt Height, 20"	1
117 0028245	Tank, Water, 750 Gallon, Poly, Med	1
118 0003405	Overflow, 4" Water Tank, Poly	1
119 0028107	Not Required, Foam Cell Modification	1
120 0553729	Not Required, Restraint, Water Tank, Heavy Duty	1
121 0003429	No Direct Tank Fill Req'd	1
122 0003424	(No Dump Valve required)	1
123 0048710	Jet Assist Not Reg'd	1
124 0030007	(No Dump Chute Required)	1
125 0514778	Not Required, Switch, Tank Dump Master	1
126 0689065	Hose Bed, Aluminum, Saber/Commercial	1
127 0003480	Hose Bed Capacity, Std, 1500' of 2.5", 400' of 1.5"	1
128 0083488	Divider, Hose Bed, .25" Unpainted	1
	Qty, Hosebed Dividers - 1	
129 0589278	Hose Restraint, Hose Bed, Velcro Strap on Top, 2" Heavy Nylon Web at Rear	1
	Type of fastener - 2" cam buckle	
	**	
	Nylon Web Color - Black	
	Type of fastener, Rear - 2" cam buckle - bottom of hosebed	
130 0013512	Running Boards, 12.75" Deep	1
131 0686069	Tailboard, 16" Deep, Full Width, Angled Corners	1
132 0690027	Wall, Rear, Smooth Aluminum/Body Material, Flush Rear Wall	1
133 0035470	Tow Eyes, (2) Painted, Direct to Frame	1
134 0003561	Construction, Compt, Alum, Pumper	1
135 0083602	DS 136" Lap, Full Height Front & Rear	1
136 0083614	PS 136" Lap, Low	1
137 0063911	Doors, Lap w/ "D" Handles - Side Compartments	1
138 0083701	Rear, Rollup, 44.50" FF	1
139 0692746	Doors, Gortite, Rollup, Rear Compartment	1
	Color, Gortite, Roll-upDoor - Satin finish	
	Latch, Gortite, Roll-up - Non-locking Liftbar	
140 0689545	Lights, Compt, Pierce LED, Single Light Strip, NFPA 2009 Minimum	6
	Location - all compartments	
	Qty, - 06	
141 0687139	No Shelf Tracks Required	1
142 0539177	Rub Rail, Aluminum Extruded, Side and Rear Body, Xtra Space	1
	(.50")	•
143 0039041	Not Required, Fender Crowns, Rear	1
144 0519849	Not Required, Hose, Hard Suction	1
145 0626229	Handrails, Side Pump Panels, Per Print	1

146 0	004126	Handrails, Beavertail, Standard	1
147 0	004146	Handrail, Rear, Below Hose Bed, Full Width	1
148 0	004264	Ladder, 24' Alco-Lite PEL-24 2 Sect	1
149 0	004266	Ladder, 14' Alco-Lite, PRL-14, Roof	1
150 0	004300	Brackets, Adjustable, PS	1
151 0	034270	Ladder, Folding, 10' Alco-Lite FL-10	1
		Location, Fold Ladder - a) Right Compt	
152 0	554062	Pike Pole, 10' Akron, Fiberglass, Pumper NFPA Classification	2
		Qty, Pike Poles - 2	
		Location - on passenger side	
153 0	638855	Pike Pole, 6', Pumper, Provided by Fire Department	1
		Pike Pole Make/Model - Akron 6' Pike Pole	
154 0	004360	Tulip Clip Holders For Pike Poles, Pierce Furnished Pike Poles	1
	.001000	Location - on passenger side, under the ladders	•
155.0	024388	No Steps Required, Front Of Body	1
	592995	Steps, Combo Folding Trident w/LED & Corner, Rear Body	1
150 0	032333	Coating, Step - luminescent	•
157.0	0004415	<b>5</b> . 1	1
	004415 004481	Pump, Waterous, CS, 1250 GPM, Single Stage Packing, Grafoil, Waterous	1
	091446	Pump Setup Charges N/A	1
	1559769	Transmission, Pump, Waterous C20 Series	1
	535256	Shift, Air w/ Manual Override, Split Shaft, Waterous	1
	003148	Transmission Lock-up, EVS	1
	004547	Auxiliary Cooling System	1
	014486	(No Transfer Valve Required on 1 Stage Pump)	1
	004517	Valve, Relief Intake, Elkhart	1
	645706	Controller, Pressure, Class 1 Sentry	1
167 0	641743	Primer, Waterous, VPO Motor, (1) VAP Valve, (1) Push Button	1
		Control	
	058516	Manuals, Pump (2), CD	1
	089351	Plumbing, Stainless Steel & Hose, Control Zone	1
	089437	Plumbing without Foam System	1
	004645	Inlets, 6.00" - 1250 GPM or Larger Pump	1
	004646	Cap, Main Pump Inlet, Long Handle, NST, VLH	1
	084610	Valves, Akron 8000 series- All Inlet, Left Side, 2.50"	1
	004660 029147	Not Required, Inlet, Right Side	1
	016158	Valve, Inlet(s) Recessed, Side Cntrl, "Control Zone"	1
170 0	010138	Qty, Inlets - 1	'
177.0	0004700		4
	004700	Control, Inlet, at Valve	1
	092569 092696	No Rear Inlet (Large Dia) Requested Not Required, Cap, Rear Inlet	1
		No Rear Inlet Actuation Required	1
	064116 009648	No Rear Intake Relief Valve Req'd	1
	092568	No Rear Auxiliary Inlet Requested	1
	563738	Valve, .75" Bleeder, Aux. Side Inlet, Swing Handle	1
	029043	Tank to Pump, (1) 3.00" Valve, 3.00" Plumbing	1
10-7 0	020070	Tain to Famp, (1) 0.00 valve, 0.00 Family	•

185 0004910	Outlet, 2.00" Tank Fill	1
186 0004940	Outlet, Left Side, 2.50"	2
	Qty, Discharges - 02	
187 0092570	Not Required, Outlets, Left Side Additional	1
188 0004945	Outlet, Right Side, 2.50"	1
	Qty, Discharges - 01	
189 0092571	Not Required, Outlets, Right Side Additional	1
190 0029137	Not Required, Outlet, Large Diameter	1
191 0092572	Not Required, Outlet, Front	1
192 0004995	Outlet, Rear, 2.50"	1
	Qty, Discharges - 01	
	Location, Outlet - a) passenger's side	
193 0092574	Not Required, Outlet, Rear, Additional	1
194 0092573	Not Required, Outlet, Hose Bed/Running Board Tray	1
195 0085076	Caps for 1.50" to 3.00" Discharge, VLH	1
196 0563739	Valve, 0.75" Bleeder, Discharges, Swing Handle	1
197 0005091	Elbow, Left Side Outlets, 45 Degree, 2.50" FNST x 2.50" MNST,	1
107 0000001	VLH	•
198 0035094	Not Required, Elbow, Left Side Outlets, Additional	1
199 0025091	Elbow, Right Side Outlets, 45 Degree, 2.50" FNST x 2.50" MNST, VLH	1
200 0089584	Not Required, Elbow, Right Side Outlets, Additional	1
201 0045091	Elbow, Rear Outlets, 45 Degree, 2.50" FNST x 2.50" MNST, VLH	1
202 0085695	Not Required, Elbow, Rear Outlets, Large, Additional	1
203 0007308	Not Required, Elbow, Large Diameter Outlet	1
204 0062133	Control, Outlets, Manual, Pierce HW if applicable	1
205 0005065	Outlet, 3.00" Deluge Riser	1
206 0029302	No Monitor Requested	1
207 0029304	No Nozzle Req'd	1
208 0005070	Deluge Mount, NPT	1
209 0029167	Crosslays Sngl Sheet unpainted, (2+) 1.50", Std. Cap	2
	Qty, Crosslays - 2	
210 0029196	Not Required, 2.50" Crosslay	1
211 0029260	Not Required, Speedlays	1
212 0591145	Hose Restraint, Crosslay/Deadlay, Top and Ends, Elastic Netting	2
	Qty, - 02	
213 0044333	Not Required, Foam System	1
214 0012126	Not Required, CAF Compressor	1
215 0552517	Not Required, Refill, Foam Tank	1
216 0042573	Not Required, Foam System Demonstration	1
217 0045465	Not Required, Foam Tanks	1
218 0091110	Not Required, Foam Tank Drain	1
219 0091079	Not Required, Foam Tank #2	1
220 0091112	Not Required, Foam Tank Drain	1
221 0007545	Pump House, Side Control, 45", Control Zone	1
222 0032479	Pump Panel Configuration, Control Zone	1
223 0629252	Material, Pump Panels, Side Control Black Vinyl	1

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## Material Finish, Pump Panel, Side Control - Black Vinyl Material, Pump Panel, Side Control - Aluminum

	material, rump rumel, elae centrer marinian	
224 0005578	Panel, Pump Access - Pass Side Only	1
225 0035501	Pump House Structure, Std Height	1
226 0005945	Light, Pump Compt	1
227 0586382	Engine Indicators, Included With Pressure Controller	1
228 0005601	Throttle Included w/ Pressure Controller	1
229 0549333	Indicators, Engine, Included with Pressure Controller	1
230 0511078	Gauges, 4.00" Master, Class 1, 30"-0-600psi	1
231 0511100	Gauge, 2.00" Pressure, Class 1, 30"-0-400psi	1
232 0062586	Gauge, Water Level, Class 1, Pierce Std	1
233 0006774	Not Required, Foam Level Gauge	1
234 0593161	Light Shield, S/S LED	1
235 0508023	Air Horns, (2) Hadley 6" Round, On Sides Of Engine Hood	1
236 0036062	Control, Air Horn, Horn Ring, PS Lanyard	1
237 0525667	Siren, Whelen 295SLSA1, 100 or 200 Watt	1
238 0567686	Location, Elect Siren, In Console, Peterbilt	1
239 0006145	Control, Elec Siren, Horn Ring, PS Foot Sw	1
240 0550225	Speaker, Whelen SA314A, 100 watt, Cast Aluminum w/ Natural Finish	1
	Qty, Speakers - 1	
	Connection, Speaker - siren head	
241 0548352	Location, Recessed in the Front Bumper, Driver Side	1
242 0671616	Lightbar, Code 3, 21TR47NFPA1 LED	1
243 0537471	Lights, Front Zone, Code 3, 378XBZ-75, PRIZM LED, Colored Lens	1
	Color, Lt DS Front - Red	
	Color, Lt PS Front - Red	
244 0078240	Lights, Side Zone Lower, Code 3 65 LED, 2pr	1
	Location, lights rear - over rear wheel wells	
	Location, Lights Frt Side - a)each side engine hood	
	Flange Kit, 2pr - w/o with out a flange	
	Color,Code-3,65 LED,FRT - a) rd/rd	
	Color,Code-3,65 LED,BCK - a) rd/rd	
245 0074717	Lights, Rear Zone Lower, Code-3 65 LED	1
	Flange Kit - w/o) with out flange	
	Color,Code-3,65 LED - a) rd/rd	
246 0655422	Light, Rear Zone Upper, Code-3, DuoBeam II, DB2-2TCNFPA LED Red Beacon, TC6	1
	Color, Dome, Rear Warning - j) both domes clear	
247 0006551	Not Required, Lights, Rear Upper Zone Blocking	1
248 0016610	Mtg, Rear Warn Lts, Std Mount, S/S Brkts	1
249 0519934	Not Required, Brand, Hydraulic Tool System	1
250 0007150	Bag of Nuts and Bolts	1
	Qty, Bag Nuts and Bolts - 1	
251 0532883	NFPA Required Loose Equipment, Pumper, Provided by Fire Department	1

252 0067022	Hose, 6.00" Soft Suction - 15 Ft. Long	1
253 0027023	No Strainer Required	1
254 0533269	Extinguisher, Dry Chemical, Pumper, Provided by Fire Department	1
255 0533278	Extinguisher, 2.5 Gal. Pressurized Water, Pumper, Provided by Fire Department	1
256 0532921	Axe, Flathead, Pumper, Provided by Fire Department	1
257 0532924	Axe, Pickhead, Pumper, Provided by Fire Department	1
258 0583915	No Two-Tone Paint Req'd	1
259 0583882	Paint, 90 Red, Commercial Grade Chassis Finish, PMFD Comm Chassis w/Pricing	1
	Paint Color, Commercial, Std - #90 Candy Apple Red	
260 0586561	Chassis Cab Paint, #90 Red, Standard	1
	Paint Color, Commercial, Std - #90 Candy Apple Red	
261 0582663	Paint, Chassis Frame Assy, Black, by Commerical Chassis Mfgr	1
262 0651175	Paint, Wheels, BLACK, By Pierce, Commercial, 4x2/4x4	1
263 0651164	Wheels, Accent Stripe NOT REQUIRED	1
264 0007230	Compartment, Painted, Spatter gray	1
265 0544111	Reflective Band, 10"	1
	Color, Reflect Band - A - a) white	
266 0007357	Reflective on Front Bumper	1
267 0536954	Stripe, Chevron, Rear, Diamond Grade, Pumper	1
	Color, Rear Chevron DG - fluorescent yellow	
268 0065780	Stripe, Reflective, Cab Drs Interior, Commercial Cabs, 2dr	1
200 0000100	Color, Reflective - a) white	·
269 0027286	Not Required, Lettering Specs	1
270 0007472	[Lettering not Requested]	1
271 0509860	Manual on CD, Body Parts Only, Commercial Product	1
272 0509886	Manual on CD, Service, Comm	1
273 0002902	Manual, Commercial Chassis Operation	1
274 0080008	Warranty, Basic, 1 Year, Apparatus, Commercial Chassis, WA0008	1
275 0681674	Warranty, Basic Vehicle, 3 yr or 200,000 Miles, Peterbilt 337/348	1
276 0595282	Warranty, Cab Paint, As Provided By Chassis Manufacturer, Commercial	1
277 0647720	Warranty, Pierce LED Strip Lights, WA0203	1
278 0021516	Warranty, 5-Year EVS Transmission, Standard Comm, WA0187	1
279 0688798	Warranty, Water Tank, Lifetime, UPF, Poly Tank, WA0195	1
280 0596025	Warranty, Structure, 10 Year, Body, WA0009	1
281 0693127	Warranty, Gortite, Roll-up Door, 6 Year, WA0190	1
282 0063510	Warranty, Pump, Waterous, 5 Year Parts, WA0225	1
283 0648675	Warranty, 10 Year S/S Pumbing, WA0035	1
284 0595820	Warranty, Paint, 10 Year, Body, Pro-Rate, WA0057	1
285 0593921	Not Required, Warranty, No Lettering	1
286 0683627	Certification, Vehicle Stability, CD0089	1
287 0579156	Certification, Cab Integrity, Peterbilt, CD0088	1
288 0545073	Amp Draw Report, NFPA 2009 Edition	1
289 0002758	Amp Draw, NFPA Radio Allowance	1
290 0000017	FLORIDA DIVISION BODY	1

# FSA SPECIFICATION #17 PIERCE PETERBUILT COMMERCIAL PUMPER

## NFPA 2009 STANDARDS

This apparatus specification includes a commercial chassis that has not been certified to meet the requirements of NFPA 1901 by the chassis manufacturer. Although this chassis may comply with certain aspects of the standard, Pierce has not received certification from this chassis manufacturer that all criteria have been met. The body as built by the manufacturer must comply with the NFPA standards effective January of 2009.

Certification of slip resistance of all stepping, standing and walking surfaces must be supplied with delivery of the apparatus.

A plate that is highly visible to the driver while seated will be provided. This plate will show the overall height, length, and gross vehicle weight rating.

The manufacturer will have programs in place for training, proficiency testing and performance for any staff involved with certifications.

An official of the company will designate, in writing, who is qualified to witness and certify test results.

## NFPA COMPLIANCY

Apparatus proposed by the bidder will meet the applicable requirements of the National Fire Protection Association (NFPA) as stated in the current edition at time of contract execution. Fire Department's specifications that differ from NFPA specifications will be indicated in the proposal as "non-NFPA."

#### **PUMP TEST**

The rated water pump will be tested, approved, and certified by an ISO certified independent third party testing agency at the manufacturer's expense. The test results, along with the pump manufacturer's certification of hydrostatic test, the engine manufacturer's certified brake horsepower curve, and the manufacturer's record of pump construction details will be forwarded to the Fire Department.

## **GENERATOR TEST**

If the unit has a generator, the generator will be tested, approved, and certified by an ISO certified independent third party testing agency at the manufacturer's expense. The test results will be provided to the Fire Department at the time of delivery.

#### AFTERMARKET SUPPORT WEBSITE

Pierceparts.com will provide <u>Pierce authorized dealer</u> access to comprehensive information pertaining to the maintenance and service of their customer's apparatus. This tool will provide the Pierce authorized dealer the ability to service and support their customers to the best of their ability with factory support at their fingertips.

Pierceparts.com is also accessible to the end user through the guest login. Limited access is available and vehicle specific parts information accessible by entering a specific VIN number. All end users should see their local authorized Pierce dealer for additional support and service.

The website will consist of the following screens at the dealer level:

#### My Fleet Screen

The My Fleet screen will provide access to truck detail information on the major components of the vehicle, warranty information, available vehicle photographs, vehicle drawings, sales options, applicable vehicle software downloads, etc.

#### **Parts Screens**

The Parts screens will provide parts look-up capability of Pierce Manufacturing sourced items, with the aid of digital photographs, part drawings and assembly drawings. The parts search application will permit the searching of parts by item description or function group (major system category). The parts application will provide the ability to submit electronically a parts order, parts quote, or parts return request directly to Pierce Manufacturing for processing.

## **Warranty Screen**

The Warranty screens will provide dealers the ability to submit electronically warranty claims directly to Pierce Manufacturing for reimbursement.

## **My Reports Screens**

The My Reports screens will provide access to multiple dealer reports to allow the dealership to maintain communication with the customer on the status of orders, claims, and phone contacts.

## **Technical Support Screens**

The Technical Support screens will provide access to all currently published Operation and Maintenance and Service Publications. Access to Pierce Manufacturing Service Bulletins and Work Instructions, containing information on current service topics and recommendations will be provided.

#### Training

The Training screens will provide access to upcoming training classes offered by Pierce Manufacturing along with interactive electronic learning modules (Operators Guides) covering the operation of major vehicle components will be provided. Access to training manuals used in Pierce Manufacturing training classes will be provided.

#### **About Pierce**

Access to customer service articles, corporate news, quarterly newsletters, and key contacts within the Customer Service Department will be provided. The current Customer Service Policy and Procedure Manual, detailing the operation of the Customer Service group will also be accessible.

#### **BID BOND**

A bid bond as security for the bid in the form of a 10% bid bond will be provided with the proposal. This bid bond will be issued by a Surety Company who is listed on the U.S. Treasury Departments list of acceptable sureties as published in Department Circular 570. The bid bond will be issued by an authorized representative of the Surety Company and will be accompanied by a certified power of attorney dated on or before the date of bid. The bid bond will include language which assures that the bidder/principal will give a bond or bonds, as may be specified in the bidding or contract documents, with good and sufficient surety for the faithful performance of the contract, including the Basic One (1) Year Limited Warranty, and for the prompt payment of labor and material furnished in the prosecution of the contract.

Notwithstanding any document or assertion to the contrary, any surety bond related to the sale of a vehicle will apply only to the Basic One (1) Year Limited Warranty for such vehicle. Any surety bond related to the sale of a vehicle will not apply to any other warranties that are included within this bid (OEM or otherwise) or to the warranties (if any) of any third party of any part, component, attachment or accessory that is incorporated into or attached to the vehicle. In the event of any contradiction or inconsistency between this provision and any other document or assertion, this provision will prevail.

#### PERFORMANCE BOND NOT REQUESTED

A performance bond will not be included. If requested at a later date, one will be provided to you for an additional cost and the following will apply:

The successful bidder will furnish a Performance and Payment bond (Bond) equal to 100 percent of the total contract amount within 30 days of the notice of award. Such Bond will be in a form acceptable to the Owner and issued by a surety company included within the Department of Treasury's Listing of Approved Sureties (Department

Circular 570) with a minimum A.M. Best Financial Strength Rating of A and Size Category of XV. In the event of a bond issued by a surety of a lesser Size Category, a minimum Financial Strength rating of A+ is required. Bidder and Bidder's surety agree that the Bond issued hereunder, whether expressly stated or not, also includes the surety's guarantee of the vehicle manufacturer's Bumper to Bumper warranty period included within this proposal. Owner agrees that the penal amount of this bond will be simultaneously amended to 25 percent of the total contract amount upon satisfactory acceptance and delivery of the vehicle(s) included herein. Notwithstanding anything contained within this contract to the contrary, the surety's liability for any warranties of any type will not exceed three (3) years from the date of such satisfactory acceptance and delivery, or the actual Bumper to Bumper warranty period, whichever is shorter.

## **APPROVAL DRAWING**

A drawing of the proposed apparatus will be prepared and provided to the purchaser for approval before construction begins. The Pierce sales representative will also be provided with a copy of the same drawing. The finalized and approved drawing will become part of the contract documents. This drawing will indicate the chassis make and model, location of the lights, siren, horns, compartments, major components, etc.

A "revised" approval drawing of the apparatus will be prepared and submitted by Pierce to the purchaser showing any changes made to the approval drawing.

#### **ELECTRICAL WIRING DIAGRAMS**

Two (2) electrical wiring diagrams, prepared for the body as it interfaces with the commercial chassis, will be provided.

## **CHASSIS**

The chassis will be a Peterbilt, Model 337, supplied with the following equipment:

## **WHEELBASE**

The wheelbase of the vehicle will be 189.5".

#### **GVW RATING**

The gross vehicle weight rating will be 35,000 lbs..

#### **FRAME**

The frame rails will be formed from 120,000 psi yield, heat treated alloy steel.

#### FRONT AXLE

The front axle will be an "I" beam type, made of forged steel. It will be a Spicer™, Model E-1202I, with a ground rating capacity of 12,000 lb.

#### FRONT SUSPENSION

- Taper Leaf
- Capacity at Ground: 12,000 lb

Shock absorbers will be provided on the front axle.

## **TIRES, FRONT**

Front tires will be Bridgestone 11R22.50, radial tires with a tread pattern suitable for the steering axle position. The capacity of the tires will meet or exceed the rating of the axle and/or suspension.

#### WHEELS, FRONT

Wheels for the front axle will be 22.50" x 8.25" steel disc, ten (10)-hole pattern.

## **REAR AXLE**

The single reduction rear axle will be a Dana Spicer S23-170, with a ground rating capacity of 23,000 lb. The brake chambers will be forward mounted and the brakes will be 16.50" x 7.00", S-Cam type.

#### PARKING BRAKE

The parking brake will be spring set and located on the rear axle service brake.

## **REAR AXLE RATIO**

A rear axle ratio will be furnished to allow the vehicle to reach a top speed of 60 MPH.

#### **REAR SUSPENSION**

The rear suspension will be Reyco taper leaf with a capacity at ground of 23,000 lb. Auxiliaries will be included and the deflection will be variable.

#### TIRES, REAR

Rear tires will be Bridgestone, 11R22.50 radial tires with a traction tread pattern suitable for the drive axle position. The tires will meet or exceed the weight rating of the axle and/or suspension.

## WHEELS, REAR

The rear wheels will be 22.50" x 8.25" steel disc with a ten (10)-hole pattern.

## TIRE PRESSURE MANAGEMENT

There will be a RealWheels LED AirSecure<sup>TM</sup> tire alert pressure management system provided, that will monitor each tire's pressure. A sensor will be provided on the valve stem of each tire for a total of six (6) tires. The sensor will calibrate to the tire pressure when installed on the valve stem for pressures between 10 and 200 psi. The sensor will activate an integral battery operated LED when the pressure of that tire drops 5 to 8 psi. Removing the cap from the sensor will indicate the functionality of the sensor and battery. If the sensor and battery are in working condition, the LED will immediately start to flash.

## **MUD FLAPS**

Mud flaps with a Pierce logo will be installed behind the front and rear wheels.

#### WHEEL CHOCKS, PROVIDED BY FIRE DEPARTMENT

NFPA 1901, 2009 edition, section 5.8.3 requires two or more wheel chocks mounted in readily accessible locations, that together will hold the apparatus, when loaded to its GVWR or GCWR, on a hard surface with a 20 percent grade with the transmission in neutral and the parking brake released.

The wheel chocks are not on the apparatus as manufactured. The fire department will provide and install these wheel chocks.

#### WHEEL CHOCK BRACKETS, PROVIDED BY FIRE DEPARTMENT

The wheel chock brackets are not on the apparatus as manufactured. The fire department will provide and install the wheel chock brackets.

## ANTI-LOCK BRAKE SYSTEM

The vehicle will be equipped with an anti-lock braking system. The ABS will provide anti-lock braking control on both the front and rear wheels. It is to be a digitally controlled system that utilizes microprocessor technology to control the anti-lock braking system. Each wheel is to be monitored by the system. When any particular wheel begins to lockup, a signal is to be sent to the control unit. This control unit then will reduce the braking of that wheel for a fraction of a second and then reapply the brake. This anti-lock brake system will eliminate the lockup of any wheel thus helping to prevent the apparatus from skidding out of control.

#### **FRONT BRAKES**

The front brakes will be S-Cam, 16.50" x 5.00". The front brakes will be provided with Eaton<sup>TM</sup> automatic slack adjusters.

#### AIR COMPRESSOR, BRAKE SYSTEM

The air compressor will be a Cummins with 18.7 cubic feet per minute output.

- Bendix AD-IS air dryer with heater

## **AIR INLET**

A single air inlet with male coupling will be provided. It will allow station air to be supplied to the apparatus brake system through a shoreline hose. The inlet will be located in the driver side cab step area. A check valve will be provided to prevent reverse flow of air. The inlet will discharge into the "wet" tank of the brake system. A mating female coupling will also be provided with the loose equipment.

## **ENGINE**

- Model: Paccar PX-9

Number of Cylinders: Six (6)Bore and Stroke: 4.49" x 5.69"

- Displacement: 543 cubic inches (8.9 Liter)

- Compression Ratio: 16.60:1

- Rated Brake Horsepower: 350 at 2000 rpm

- Peak Torque: 1000 at 1400 rpm

Governed rpm: 2200TurbochargerCharge Air Cooled

- Fuel System: Hydraulically Actuated, Electronically Controlled Unit Injectors (HEUI)

#### **ENGINE ACCESSORIES**

- Air Cleaner: Dry type, with restriction indicator in cab

Fuel Filter: With check valveGovernor: Limiting speed type

- Lube Oil Cooler

Lube Oil Filter: Full flowStarting Motor: 12-voltOil Fill and Level Gauge

#### **ENGINE WARRANTY**

The engine will come with a **five** (5) **year** or **100,000 mile** warranty provided by the engine manufacturer.

#### **RADIATOR**

- Pressurized System, Tube and Fin
- Deaeration Tank and Sight Glass
- Anti-Freeze Protection -30 Degrees Fahrenheit

#### **HIGH IDLE**

A high idle switch will be provided on the instrument panel inside the cab. Activating the switch will cause the vehicle to automatically maintain a preset engine rpm.

The high idle switch will be operational only when the parking brake is on and the truck transmission is in neutral. A green indicator light will be provided adjacent to the switch. The light will be labeled "OK To Engage High Idle."

## TURBO EXHAUST BRAKE

A variable geometry turbo exhaust brake will be installed with the control located on the instrument panel within easy reach of the driver.

## AIR INTAKE, W/EMBER SEPARATOR

The air inlet will be equipped with a stainless steel mesh to separate water and burning embers from the air intake system such that particulate matter larger than 0.039" (1.0 mm) in diameter cannot reach the air filter element. This will comply with NFPA 1901 and 1906 standards.

#### **EXHAUST SYSTEM**

The exhaust system will include a diesel particulate filter (DPF) and a selective catalytic reduction (SCR) device to meet current EPA standards. The DPF and SCR will be mounted horizontally outside of the frame rails in the passenger side front step area.

#### **EXHAUST MODIFICATIONS**

The exhaust will terminate the side of the body with a horizontal tailpipe and diffuser ahead of the passenger side rear wheels.

A heat deflector shield will be provided where the tail pipe is routed under any side compartmentation.

## **COOLANT LINES**

Silicone hoses will be used for the radiator and cab heater hoses installed by the chassis manufacturer.

Hose clamps will be constant torque type to prevent coolant leakage. They will react to temperature changes in the cooling system and expand or contract accordingly while maintaining a constant clamping pressure on the hose.

#### **FUEL TANK**

A 50 gallon polished aluminum fuel tank will be provided and mounted at the left-hand cab step.

#### DIESEL EXHAUST FLUID (DEF) TANK

A curved DEF tank will be provided. The tank will have 11 gallons of useable volume. The tank will be located just rearward of the under cab fuel tank on the LH side. The shape of the DEF tank will match the curvature of the round fuel tank.

The tank will have a polished stainless steel band wrap below the fill neck.

The tank will be a minimum of 6% by volume of fuel carried. This capacity will accommodate two diesel re-fillings for every DEF re-filling.

In order to keep DEF from freezing the tank will be heated with engine coolant.

#### **TRANSMISSION**

An Allison, model 3000 EVS, electronic torque converting automatic transmission will be provided.

Two (2) PTO openings will be located on left side and top of converter housing (positions 8 o'clock and 4 o'clock). A transmission temperature gauge or warning light will be installed on cab instrument panel.

#### TRANSMISSION SHIFT CONTROL

A push button shift module will be mounted to right of driver. Shift position indicator will be indirectly lit for after dark operation.

The transmission will be a five (5)-speed. The transmission ratios will be 1st - 3.49 to 1.00, 2nd - 1.86 to 1.00, 3rd - 1.41 to 1.00, 4th - 1.00 to 1.00, 5th - 0.75 to 1.00, R - 5.03 to 1.00.

#### TRANSMISSION COOLER

An external transmission oil cooler will be provided.

#### **DRIVELINE**

Drivelines will have a heavy duty metal tube that is properly sized for the intended application. The shafts will have a splined slip joint.

#### **STEERING**

Steering will consist of a hydraulically driven Model TRW TAS-65, steering system.

The steering column will tilt and telescope.

#### **BUMPER**

A one (1) piece, full-width aerodynamic chromed steel bumper will be attached to the front of the chassis frame.

#### **TOW PINS**

Two (2) removable tow pins, designed with a capacity to pull the vehicle's full GVWR, will be provided. Both tow pins will be easily removable with the use of a receiver style design.

#### **BUMPER GAP**

The standard bumper furnished with the chassis will be used.

#### CAB

Type: Conventional (engine forward)

Construction: Aluminum

Accessories:

- Tinted Glass in all Windows
- Fully Trimmed Vinyl Upholstery
- Black Rubber Floormats
- Dual Sunvisors
- Cab Entrance Handrails
- Electric Windshield Washer
- Two (2)-speed Plus Intermittent, Electric Windshield Wipers
- Dome Light with Door Courtesy Lights
- Fresh Air Heater and Integral Defroster
- Grey/Black Vinyl Upholstery

## **CAB GRILLE**

The cab grille will be a highly polished perforated stainless steel design, and will include chrome headlight bezels. The grille will tilt with the hood.

## **MIRRORS**

There will be 16.00" x 7.00" mirrors with stainless steel finish provided. The driver side and passenger side mirrors will be heated and remote controlled by the driver.

On each side will be 8.00" heated convex mirrors.

#### VISIBILITY WINDOW

A visibility window, peeper, will be provided in the passenger side cab door.

#### **CAB ACCESS STEPS**

The cab access steps on the driver side and passenger side front will be provided by the chassis manufacturer. These steps will be modified by the apparatus manufacturer if required to meet NFPA step requirements.

## **STEP LIGHTS**

There will be four (4) white LED step lights provided. There will be one (1) light installed at each cab door, one (1) light per doorstep.

In order to ensure exceptional illumination, each light will provide a minimum of 25 foot-candles (fc) covering an entire 15" x 15" square placed ten (10) inches below the light and a minimum of 1.5 fc covering an entire 30" x 30" square at the same ten (10) inch distance below the light.

The lights will be activated when the adjacent door is opened.

#### **AIR CONDITIONING**

Air conditioning with integral heater and defroster will be provided.

#### **ENGINE COMPARTMENT LIGHTS**

Two (2) engine compartment lights will be installed under the engine hood, of which the switches are an integral part.

## **STORAGE CONSOLE**

There will be a console located in the cab with room for radios and map storage. There will be three (3) sections for map storage. The console will be constructed out of smooth aluminum and painted black.

## **SEATING CAPACITY**

The seating capacity in the cab will be two (2).

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## **SEATING**

Seating inside the cab will consist of an air-suspension driver seat and an air-suspension officer seat.

#### SEAT BELT WEB LENGTH

The chassis seat belt web length as supplied by the commercial chassis manufacturer will be compliant to NFPA 14.1.3.2 and 14.1.3.3.

## **SEAT BELTS**

All seating positions in the cab and crew cab will have red seat belts.

#### SEAT BELT MONITORING SYSTEM

A seat belt monitoring system (SBMS) will be provided. The SBMS will be capable of monitoring up to ten (10) seat positions indicating the status of each seat position with a green or red LED indicator as follows:

- Seat Occupied & Buckled = Green
- Seat Occupied & Unbuckled = Red
- No Occupant & Buckled = Red
- No Occupant & Unbuckled = Not Illuminated

#### **Audible Alarm**

The SBMS will include an audible alarm that will be activated when a red illumination condition exists and the parking brake is released, or a red illumination condition exists and the transmission is not in park.

#### HELMET STORAGE, PROVIDED BY FIRE DEPARTMENT

NFPA 1901, 2009 edition, section 14.1.8.4.1 requires a location for helmet storage be provided.

There is no helmet storage on the apparatus as manufactured. The fire department will provide a location for storage of helmets.

#### **CAB INTERIOR LIGHTING**

There will be one (1) additional Weldon, Model 8081-8000-13, red and white LED combination dome light(s) with grey bezel(s) installed overhead.

## PORTABLE HAND LIGHTS, PROVIDED BY FIRE DEPARTMENT

NFPA 1901, 2009 edition, section 5.8.3 requires two portable hand lights mounted in brackets fastened to the apparatus.

The hand lights are not on the apparatus as manufactured. The fire department will provide and mount these hand lights.

## **CAB INSTRUMENTS**

- Engine Temperature Gauge and Warning Buzzer
- Engine Oil Pressure Gauge and Warning Buzzer

- Speedometer with Odometer
- Engine Tachometer
- Engine Hourmeter
- Fuel Level Gauge
- DEF Level Gauge and Warning Lamp with 2010+ engines
- Voltmeter: Low voltage red warning light and audible alarm
- Air Brake Pressure Gauge
- Air Restriction Indicator
- Circuit Breakers: For overload protection of electric circuits
- Ignition Switch: Keyless type

## **EMERGENCY SWITCH PANEL**

The emergency switch panel will be provided in the cab, located on the floor mounted console.

## "DO NOT MOVE APPARATUS" INDICATOR

A flashing red indicator light (located in the driving compartment) will be illuminated automatically per the current edition of NFPA. The light will be labeled "Do Not Move Apparatus If Light Is On".

The same circuit that activates the Do Not Move Apparatus indicator will activate a steady tone alarm when the parking brake is released.

## **OPEN DOOR INDICATOR LIGHT**

A red "open door" indicator light will be provided inside the cab, in clear view of the driver, to warn of an open compartment door.

#### WIPER CONTROL

Wiper control will include an intermittent feature and windshield washer controls.

## **VEHICLE DATA RECORDER**

A vehicle data recorder (VDR) will be provided. The VDR will be capable of reading and storing vehicle information. The VDR will be capable of operating in a voltage range from 8VDC to 16VDC. The VDR will not interfere with, suspend, or delay any communications that may exist on the CAN data link during the power up, initialization, runtime, or power down sequence. The VDR will continue operation upon termination of power or at voltages below 8VDC for a minimum of 10ms.

The information stored on the VDR can be downloaded through a USB port mounted in a convenient location determined by cab model. A CD provided with the apparatus will include the programming to download the information from the VDR. A USB cable can be used to connect the VDR to a laptop to retrieve required information.

The vehicle data recorder will be capable of recording the following data via hardwired and/or CAN inputs:

Vehicle Speed - MPH

Acceleration - MPH/sec

Deceleration - MPH/sec

Engine Speed - RPM

Engine Throttle Position - % of Full Throttle

ABS Event - On/Off

Seat Occupied Status - Yes/No by Position (1-6 Seating Capacity)

Seat Belt Buckled Status - Yes/No by Position (1-6 Seating Capacity)

Master Optical Warning Device Switch - On/Off

Time - 24 Hour Time

Date - Year/Month/Day

### **ELECTRICAL**

All 12-volt electrical equipment installed by the apparatus manufacturer will conform to modern automotive practices. All wiring will be high temperature crosslink type. Wiring will be run in loom or conduit where exposed and have grommets where wire passes through sheet metal. Automatic reset circuit breakers will be provided which

conform to SAE Standards. Wiring will be color, function and number coded. Function and number codes will be continuously imprinted on all wiring harness conductors at 2.00" intervals. Exterior exposed wire connectors will be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture and automotive fluids. Electrical wiring and equipment will be installed utilizing the following guidelines:

- (1) All holes made in the roof will be caulked with silicon. Rope caulk is not acceptable. Large fender washers, liberally caulked, will be used when fastening equipment to the underside of the cab roof.
- (2) Any electrical component that is installed in an exposed area will be mounted in a manner that will not allow moisture to accumulate in it. Exposed area will be defined as any location outside of the cab or body.
- (3) Electrical components designed to be removed for maintenance will not be fastened with nuts and bolts. Metal screws will be used in mounting these devices. Also a coil of wire will be provided behind the appliance to allow them to be pulled away from mounting area for inspection and service work.
- (4) Corrosion preventative compound will be applied to all terminal plugs located outside of the cab or body. All non-waterproof connections will require this compound in the plug to prevent corrosion and for easy separation (of the plug).
- (5) All lights that have their sockets in a weather exposed area will have corrosion preventative compound added to the socket terminal area.
- (6) All electrical terminals in exposed areas will have silicon (1890) applied completely over the metal portion of the terminal. All emergency light switches will be mounted on a separate panel installed in the cab. A master warning light switch and individual switches to be provided to allow pre-selection of emergency lights. The light switches will be "rocker" type with an internal indicator light to show when switch is energized. All switches will be properly identified and mounted in a removable panel for ease in servicing. Identification of the switches will be done by either printing or etching on the switch panel. The switches and identification will be illuminated. All lights and reflectors, required to comply with Federal Motor Vehicle Safety Standard #108, will be furnished. Rear identification lights will be recessed mounted for protection. Lights and wiring mounted in the rear bulkheads will be protected from damage by installing a false bulkhead inside the rear compartments.

An operational test will be conducted to ensure that any equipment that is permanently attached to the electrical system is properly connected and in working order.

The results of the tests will be recorded and provided to the purchaser at time of delivery.

#### **BATTERY SYSTEM**

A single starting battery system shall be provided consisting of two (2) 12 volt, 1000 CCA, maintenance-free batteries. The battery system shall have a total of 2000 CCA (cold cranking amps).

## **BATTERY SYSTEM MODIFICATION**

Due to specific apparatus configuration requirements, the batteries will be relocated to the driver side front compartment by the Pierce. An enclosure with an access panel shall protect the batteries.

#### MASTER BATTERY SWITCH

A master battery switch, to activate the battery system, will be provided inside the cab within easy reach of the driver.

The master battery disconnect switch will be wired between the starter solenoid and the remainder of the electrical loads on the apparatus.

A green "battery on" indicator light, visible from the driver's position, will be provided.

#### **BATTERY CHARGING RECEPTACLE**

The battery charging receptacle location will be near the driver's side cab step area.

## **ALTERNATOR**

The alternator will be 12-volt 270 amp.

## ELECTRONIC LOAD MANAGEMENT

A Kussmaul electronic load management (ELM) system will be provided that monitors the vehicles 12-volt electrical system, and automatically reduces the electrical load in the event of a low voltage condition and by doing so, ensures the integrity of the electrical system.

The ELM will monitor the vehicle's voltage while at the scene (parking brake applied). It will sequentially shut down individual electrical loads when the system voltage drops below a preset value. Ten (10) separate electrical loads will be controlled by the load manager. The ELM will sequentially re-energize electrical loads as the system voltage recovers.

The (ELM) will also include a sequencer function which will be used to enable channels 1-5, 6, 7, 8, 9, and 10. The (ELM) will sequentially re-energize electrical loads as the system voltage recovers.

#### **SEQUENCER**

A warning light sequencer will be provided that automatically turns the emergency lights on and off in a preset sequence.

The sequencer will be wired in conjunction with the emergency master light switch.

When the switch is activated the lights will be turned on in sequence one by one at 1/2 second intervals thereby protecting the alternator from power surges. When turned off the same process will deactivate the warning lights in sequence to allow a gradual decrease in alternator output, rather than dumping the load.

## **EXTERIOR LIGHTING**

Exterior lighting will meet or exceed Federal Department of Transportation, Federal Motor Vehicle Safety Standards and National Fire Protection Association requirements in effect at this time.

Front headlights will be halogen type and comply to all FMVSS requirements.

Five (5) LED clearance/marker lights will be installed across the leading edge of the cab.

## REAR CLEARANCE/MARKER/ID LIGHTING

There will be a three (3) LED light bar used as identification lights located at the rear of the apparatus per the following:

- As close as practical to the vertical centerline
- Centers spaced not less than 6.00" or more than 12.00" apart
- Red in color
- All at the same height

There will be two (2) LED lights installed at the rear of the apparatus used as clearance lights located at the rear of the apparatus per the following:

- To indicate the overall width of the vehicle
- One (1) each side of the vertical centerline
- As near the top as practical
- Red in color
- To be visible from the rear
- All at the same height

There will be two (2) LED lights installed on the side of the apparatus used as marker lights as close to the rear as practical per the following:

- To indicate the overall length of the vehicle
- One (1) each side of the vertical centerline
- As near the top as practical
- Red in color
- To be visible from the side
- All at the same height

There will be two (2) red reflectors located on the rear of the truck facing to the rear. One (1) each side, as far to the outside as practical, at a minimum of 15.00", but no more than 60.00", above the ground.

There will be two (2) red reflectors located on the side of the truck facing to the side. One (1) each side, as far to the rear as practical, at a minimum of 15.00", but no more than 60.00", above the ground. Per FMVSS 108 and CMVSS 108 requirements.

#### **REAR FMVSS LIGHTING**

There will be a pair of Weldon, Model 3884-0100-1\*, LED tri tail lamp assemblies provided. Each module will include the following:

- One (1) LED stop and tail light
- One (1) LED sequential turn light (right or left)
- One (1) LED backup light
- One (1) triple light, polished aluminum housing

The assemblies will be mounted on the face of the rear body compartments.

## LICENSE PLATE BRACKET

There will be one (1) license plate bracket mounted on the rear of the body.

A white LED light will illuminate the license plate. A polished stainless steel light shield will be provided over the light that will direct illumination downward, preventing white light to the rear.

## **BACK-UP ALARM**

A PRECO, Model 1040, solid-state electronic audible back-up alarm that actuates when the truck is shifted into reverse will be provided. The device will sound at 60 pulses per minute and automatically adjust its volume to maintain a minimum ten (10) dBA above surrounding environmental noise levels.

#### PERIMETER SCENE LIGHTS

There will be two (2) TecNiq, Model E10-WS00-1, 12 volt DC LED lights provided for each cab door.

The lights will be activated automatically when the battery switch is on and the cab exit doors are opened and by the same means as the body perimeter lights.

#### PERIMETER SCENE LIGHTS, BODY

There will be four (4) Truck-Lite, Model 6060C LED lights with rubber grommets provided on the apparatus as perimeter scene lights.

- Two (2) lights will be under the rear step, one (1) each side.
- Two (2) lights will be under the pump panel running boards, one (1) each side.

Each lights will be activated by a switch in the cab.

#### **STEP LIGHTS**

Four (4) white LED step lights will be provided. One (1) step light will be provided on each side, on the front compartment face and two (2) step lights at the rear to illuminate the tailboard.

In order to ensure exceptional illumination, each light will provide a minimum of 25 foot-candles (fc) covering an entire 15.00" x 15.00" square placed 10.00" below the light and a minimum of 1.5 fc covering an entire 30.00" x 30.00" square at the same 10.00" distance below the light.

These step lights will be actuated with the pump panel light switch.

All other steps on the apparatus will be illuminated per the current edition of NFPA 1901.

#### **DECK LIGHTS**

There will be two (2) 6.00" Unity AG, deck lights with swivel mount provided at the rear of the hose bed, one (1) each side.

One (1) light will be furnished with a 160,000 candle power halogen spot bulb and the other will be furnished with a 6,000 candle power halogen flood bulb.

## WATER TANK

Booster tank will have a capacity of 750 gallons and be constructed of polypropylene plastic by United Plastic Fabricating, Incorporated.

Tank joints and seams will be nitrogen welded inside and out.

Tank will be baffled in accordance with NFPA Bulletin 1901 requirements.

Baffles will have vent openings at both the top and bottom to permit movement of air and water between compartments.

Longitudinal partitions will be constructed of .38" polypropylene plastic and will extend from the bottom of the tank through the top cover to allow for positive welding.

Transverse partitions will extend from 4.00" off the bottom of the tank to the underside of the top cover.

All partitions will interlock and will be welded to the tank bottom and sides.

Tank top will be constructed of .50" polypropylene. It will be recessed .38" and will be welded to the tank sides and the longitudinal partitions.

Tank top will be sufficiently supported to keep it rigid during fast filling conditions.

Construction will include 2.00" polypropylene dowels spaced no more than 30.00" apart and welded to the transverse partitions. Two (2) of the dowels will be drilled and tapped (.50" diameter, 13.00" deep) to accommodate lifting eyes.

A sump that is 8.00" long x 10.00" wide x 6.00" deep will be provided at the bottom of the water tank.

Sump will include a drain plug and the tank outlet.

Tank will be installed in a fabricated cradle assembly constructed of structural steel.

Sufficient crossmembers will be provided to properly support bottom of tank. Crossmembers will be constructed of steel bar channel or rectangular tubing.

Tank will "float" in cradle to avoid torsional stress caused by chassis frame flexing. Rubber cushions, .50" thick x 3.00" wide, will be placed on all horizontal surfaces that the tank rests on.

Stops or other provision will be provided to prevent an empty tank from bouncing excessively while moving vehicle.

Mounting system will be approved by the tank manufacturer.

Fill tower will be constructed of .50" polypropylene and will be a minimum of 8.00" wide x 14.00" long.

Fill tower will be furnished with a .25" thick polypropylene screen and a hinged cover.

An overflow pipe, constructed of 4.00" schedule 40 polypropylene, will be installed approximately halfway down the fill tower and extend through the water tank and exit to the rear of the rear axle.

#### **HOSE BED**

The hose bed will be fabricated of .125"-5052 aluminum with a nominal 38,000 psi tensile strength.

The hose bed width will be 68.00" inside and the upper and rear edges of side panels have a double break for rigidity.

The upper inside area of the beavertails will be covered with brushed stainless steel to prevent damage to painted surface when hose is removed.

The flooring of the hose bed will be removable aluminum grating with the top surface corrugated to aid in hose aeration. The grating slats will be 0.50" x 4.50" with spacing between the slats for hose ventilation. Hose bed will accommodate 1500 feet of 2.50" and 400 feet of 1.50" hose.

## **HOSE BED DIVIDER**

One (1) adjustable hosebed divider will be furnished for separating hose.

Each divider will be constructed of a .25" brushed aluminum sheet. Flat surfaces will be sanded for uniform appearance, or constructed of brushed aluminum.

Divider will be fully adjustable by sliding in tracks, located at the front and rear of the hose bed.

Divider will be held in place by tightening bolts, at each end.

Acorn nuts will be installed on all bolts in the hose bed which have exposed threads.

#### HOSE BED HOSE RESTRAINT

The hose in the hose bed will be restrained by a black nylon Velcro® strap at the top of the hosebed. At the rear of the hose bed, 2.00" black nylon webbing with a 1.50" x 4.00" box pattern will attach at the top rear outside corners with 2.00" cam buckle fasteners. The webbing will have straps connected with 2.00" cam buckle fasteners located at the rear body sheet below the hose bed.

#### **RUNNING BOARDS**

Running boards will be fabricated of .125" bright aluminum treadplate.

Each running board will be supported by a welded 2.00" square tubing and channel assembly, which will be bolted to the pump compartment substructure.

Running boards will be 12.75" deep and spaced .50" away from the pump panel.

A splash guard will be provided above the running board treadplate.

### **TAILBOARD**

The tailboard will also be constructed of .125" bright aluminum treadplate and spaced .50" from the body, as well as supported by a structural steel assembly.

The tailboard area will be 16.00" deep and full width of the body. The outboard sides of the tailboard will be angled at 45 degrees beginning at the point where the body meets the tailboard at the outboard edge angling rearward to the rear edge of the tailboard.

The exterior side will be flanged down and in for increased rigidity of tailboard structure.

## REAR WALL, SMOOTH ALUMINUM/BODY MATERIAL

The rear facing surfaces of the center rear wall will be smooth aluminum.

The bulkheads, the surface to the rear of the side body compartments, will be smooth and the same material as the body.

## **TOW EYES**

Two (2) rear painted tow eyes will be located at the rear of the apparatus and will be mounted directly to the chassis frame rails.

#### COMPARTMENTATION

Body and compartments will be fabricated of .125", 5052-H32 aluminum.

Side compartments will be an integral assembly with the rear fenders.

Circular fender liners will be provided for prevention of rust pockets and ease of maintenance.

Compartment flooring will be of the sweep out design with the floor higher than the compartment door lip.

The compartment door opening will be framed by flanging the edges in 1.75" and bending out again .75" to form an angle.

Drip protection will be provided above the doors by means of bright aluminum extrusion, formed bright aluminum treadplate or polished stainless steel.

The top of the compartment will be covered with bright aluminum treadplate rolled over the edges on the front, rear and outward side. These covers will have the corners welded.

Side compartment covers will be separate from the compartment tops.

Front facing compartment walls will be covered with bright aluminum treadplate.

All screws and bolts which protrude into a compartment will have acorn nuts on the ends to prevent injury.

## <u>UNDERBODY SUPPORT SYSTEM</u>

Due to the severe loading requirements of this pumper a method of body and compartment support suitable for the intended load will be provided.

The backbone of the support system will be the chassis frame rails which is the strongest component of the chassis and is designed for sustaining maximum loads.

The support system will include .375" thick steel vertical angle supports bolted to the chassis frame rails with .625" diameter bolts.

Attached to the bottom of the steel vertical angles will be horizontal angles, with gussets welded to the vertical members, which extend to the outside edge of the body.

A steel frame will be mounted on the top of these supports to create a floating substructure which will result in a 500 lb equipment support rating per lower compartment.

The floating substructure will be separated from the horizontal members with neoprene elastomer isolators. These isolators will reduce the natural flex stress of the chassis from being transmitted to the body.

Isolators will have a broad load range, proven viability in vehicular applications, be of a fail safe design and allow for all necessary movement in three (3) transitional and rotational modes.

The neoprene isolators will be installed in a modified V three (3)-point mounting pattern to reduce the natural flex of the chassis being transmitted to the body.

#### AGGRESSIVE WALKING SURFACE

All exterior surfaces designated as stepping, standing, and walking areas will comply with the required average slip resistance of the current NFPA standards.

## **LOUVERS**

Louvers will be stamped into compartment walls to provide the proper airflow inside the body compartments and to prevent water from dripping into the compartment. Where these louvers are provided, they will be formed into the metal and not added to the compartment as a separate plate.

## **TESTING OF BODY DESIGN**

Body structural analysis has been fully tested. Proven engineering and test techniques such as finite element analysis, stress coating and strain gauging have been performed with special attention given to fatigue, life and structural integrity of the cab, body and substructure.

Body will be tested while loaded to its greatest in-service weight.

The criteria used during the testing procedure will include:

- Raising opposite corners of the vehicle tires 9.00" to simulate the twisting a truck may experience when driving over a curb.
- Making a 90 degree turn, while driving at 20 mph to simulate aggressive driving conditions.
- Driving the vehicle at 35 mph on a washboard road.
- Driving the vehicle at 55 mph on a smooth road.
- Accelerating the vehicle fully, until reaching the approximate speed of 45 mph on rough pavement.

Evidence of actual testing techniques will be made available upon request.

#### COMPARTMENTATION, DRIVER'S SIDE

A full height, vertically hinged, single door compartment ahead of the rear wheels will be provided. The interior dimensions of this compartment will be 34.50" wide x 66.63" high x 25.88" deep in the lower 25.00" of the compartment and 12.00" deep in the remaining upper portion. The depth of the compartment will be calculated with the compartment door closed.

The compartment interior will be fully open from the compartment ceiling to the compartment floor and designed so that no permanent dividers are required between the upper and lower sections. The clear door opening of this compartment will be 30.00" wide x 62.00" high.

A positive door holder will be furnished with this compartment.

A horizontally hinged, single lift-up door compartment over the rear wheels will be provided. The interior dimensions of this compartment will be 66.50" wide x 32.88" high x 12.00" deep. The depth of the compartment will be calculated with the compartment door closed. The clear door opening of this compartment will be 59.50" wide x 28.25" high.

The lift-up door will be furnished with two gas-charged cylinders to assist in the opening of the door and to maintain the door in an open position. There will be a field adjustable, three-position bracket mounted on the vertical side door opening that will allow the door to be held open at  $87^{\circ}$ ,  $90^{\circ}$ , or  $93^{\circ}$ .

Closing of the door will not require releasing, unlocking, or unlatching any mechanism.

A full height, vertically hinged, single door compartment behind the rear wheels will be provided. The interior dimensions of this compartment will be 31.50" wide x 67.63" high x 25.88" deep in the lower 26.00" of the compartment and 12.00" deep in the remaining upper portion. The depth of the compartment will be calculated with the compartment door closed.

The compartment interior will be fully open from the compartment ceiling to the compartment floor and designed so that no permanent dividers are required between the upper and lower sections. The clear door opening of this compartment will be 30.00" wide x 63.00" high.

A positive door holder will be furnished with this compartment.

## COMPARTMENTATION, PASSENGER'S SIDE

A vertically hinged, single door compartment in the lower area ahead of the rear wheels will be provided. The interior dimensions of this compartment will be 34.50" wide x 33.63" high x 25.88" deep in the lower 26.00" of the compartment and 12.00" deep in the remaining upper portion. The depth of the compartment will be calculated with the compartment door closed. The clear door opening of this compartment will be 30.00" wide x 29.00" high. A positive door holder will be furnished with this compartment.

A vertically hinged, single door compartment in the lower area behind the rear wheels will be provided. The interior dimensions of this compartment will be 31.50" wide x 33.63" high x 25.88" deep in the lower 26.00" of the compartment and 12.00" deep in the remaining upper portion. The depth of the compartment will be calculated with the compartment door closed. The clear door opening of this compartment will be 30.00" wide x 29.00" high. A positive door holder will be furnished with this compartment.

#### DOORS, SIDE COMPARTMENT

All hinged compartment doors will be lap style with double panel construction and will be a minimum of 1.50" thick. To provide additional door strength a "C" section reinforcement will be installed between the outer and interior panels.

Doors will be provided with a closed cell rubber gasket around the surface that laps onto the body. A second heavy-duty automotive rubber molding with a hollow core will be installed on the door framing that seals onto the interior panel, to ensure a weather resisting compartment.

All compartment doors will have polished stainless steel continuous hinge with a pin diameter of .25" that is bolted or screwed on with stainless steel fasteners.

All door locking mechanisms will be fully enclosed within the door panels to prevent fouling of the lock in the event equipment inside shifts into the lock area.

Doors will be latched with recessed, polished stainless steel "D" ring handles and FMVSS approved door locking mechanisms.

To prevent corrosion caused by dissimilar metals, compartment door handles will not be attached to outer door panel with screws. A rubber gasket will be provided between the "D" ring handle and the door.

#### COMPARTMENTATION, REAR

A rollup door compartment above the rear tailboard will be provided.

Interior dimensions of this compartment will be 40.00" wide x 47.38" high x 25.88" deep in the lower 38.75" of height and 15.75" deep in the remaining upper portion. Depth of the compartment will be calculated with the compartment door closed.

A louvered, removable access panel will be furnished on the back wall of the compartment.

Rear compartment will be open into the rear side compartments.

Clear door opening of this compartment will be 33.25" wide x 38.75" high.

Closing of the door will not require releasing, unlocking, or unlatching any mechanism and will easily be accomplished with one hand.

## ROLLUP DOOR, REAR COMPARTMENT

There will be a rear rollup door. The door will be double faced aluminum construction, an anodized satin finish and manufactured by A&A Manufacturing (Gortite).

Lath sections will be an interlocking rib design and will be individually replaceable without complete disassembly of door.

Between each slat at the pivoting joint will be a PVC inner seal to prevent metal to metal contact and prevent dirt or moisture from entering the compartments. Seals will allow door to operate in extreme temperatures ranging from

plus 180 to minus 40 degrees Fahrenheit. Side, top and bottom seals will be provided to resist ingress of dirt and weather and be made of Santoprene.

All hinges, barrel clips and end pieces will be nylon 66. All nylon components will withstand temperatures from plus 300 to minus 40 degrees Fahrenheit.

A polished stainless steel lift bar to be provided for each roll-up door. Lift bar will be located at the bottom of door and have latches on the outer extrusion of the doors frame. A ledge will be supplied over lift bar for additional area to aid in closing the door.

Door will be constructed from an aluminum box section. The exterior surface of each slat will be flat. The interior surface will be concave to provide strength and prevent loose equipment from jamming the door from inside.

To conserve space in the compartments, the spring roller assembly will not exceed 3.00" in diameter.

The header for the rollup door assembly will not exceed 4.00".

A heavy-duty magnetic switch will be used for control of open compartment door warning lights.

#### **COMPARTMENT LIGHTING**

There will be six (6) compartment(s) with a single Pierce LED compartment light strip. Each light strip will be centered vertically along the door framing. There will be one (1) light per compartment. The single light strip will be in compartment(s): all compartments.

Any remaining compartment without a light strip will have a 6.00" diameter Truck-Lite, Model: 79384 light. Each light will have a number 1076 one filament, two wire bulb.

Opening the compartment door will automatically turn the compartment lighting on.

#### **RUB RAIL**

Bottom edge of the side compartments and rear rails will be trimmed with a bright aluminum extruded rub rail. Trim will be 2.12" high with 1.38" flanges turned outward for rigidity.

The rub rails will not be an integral part of the body construction, which allows replacement in the event of damage. The rub rails will be spaced out far enough to protect the lift bars on the rollup doors.

#### HARD SUCTION HOSE

Hard suction hose will not be required.

#### **HANDRAILS**

The handrails will be 1.25" diameter anodized aluminum extrusion, with a ribbed design, to provide a positive gripping surface.

Chrome plated end stanchions will support the handrail. Plastic gaskets will be used between end stanchions and any painted surfaces.

Drain holes will be provided in the bottom of all vertically mounted handrails.

Handrails will be provided to meet NFPA 1901 section 15.8 requirements. The handrails will be installed as noted on the sales drawing.

## **HANDRAILS**

One (1) vertical handrail, not less than 29.00" long, will be located on each rear beavertail.

• One (1) full width horizontal handrail will be provided below the hose bed at the rear of the apparatus.

#### **EXTENSION LADDER**

There will be a 24', two (2) section, Alco-Lite, Series PEL-24 extension ladder provided.

#### ROOF LADDER

There will be a 14' aluminum, Alco-Lite, Series PRL-14 roof ladder provided.

#### LADDER BRACKETS

The ladders will be installed on the right side of the hose body in lined brackets and held in place by chrome plated, quarter-turn spring loaded clamps. The clamps will be such that when the roof ladder is removed, the clamps can be moved a half turn to hold the extension ladder in place. The ladder brackets will be adjustable up and down.

#### FOLDING LADDER

One (1) 10.00' aluminum Alco-Lite, Series FL-10, folding ladder will be installed on top of the right side compartment.

## PIKE POLE, 10'

Two (2) pike poles 10' long Akron with a fiberglass I-beam shaped handle will be provided and located on passenger side.

#### 6 FT PIKE POLE PROVIDED BY FIRE DEPARTMENT

NFPA 1901, 2009 edition, Section 5.8.3 requires one (1) 6 ft pike pole or plaster hook mounted in a bracket fastened to the apparatus.

The pike pole is not on the apparatus as manufactured. The fire department will provide and mount the pike pole. The pike pole(s) will be a Akron 6' pike pole.

## PIKE POLE STORAGE

Chrome plated tulip clips will be used for pike pole storage and will be on passenger side, under the ladders. If the head of a pike pole can come in contact with a painted surface, a stainless steel scuffplate will be provided.

#### **REAR STEPS**

Aluminum treadplate corner steps and bright finished, non-skid folding steps will be provided at the rear. The folding steps will have a a luminescent coating that is rechargeable from any light source and can hold a charge for up to 24 hours. Each folding step will incorporate an LED light to illuminate the stepping surface. The folding steps can be used as a hand hold with two openings wide enough for a gloved hand. All steps will provide adequate surface for stepping.

#### **PUMP**

Pump will be a Waterous CS, 1250 gpm, single (1) stage midship mounted centrifugal type.

Pump will be the class "A" type.

Pump will deliver the percentage of rated discharge at pressures indicated below:

- 100% of rated capacity at 150 psi net pump pressure.
- -70% of rated capacity at 200 psi net pump pressure.
- -50% of rated capacity at 250 psi net pump pressure.

Pump body will be close-grained gray iron, bronze fitted, and horizontally split in two (2) sections for easy removal of the entire impeller shaft assembly (including wear rings).

Pump will be designed for complete servicing from the bottom of the truck, without disturbing the pump setting or apparatus piping.

Pump case halves will be bolted together on a single horizontal face to minimize a chance of leakage and facilitate ease of reassembly. No end flanges will be used.

Discharge manifold of the pump will be cast as an integral part of the pump body assembly and will provide a minimum of three (3) 3.50" openings for flexibility in providing various discharge outlets for maximum efficiency. The three (3) 3.50" openings will be located as follows: one (1) outlet to the right of the pump, one (1) outlet to the left of the pump, and one (1) outlet directly on top of the discharge manifold.

Impeller shaft will be stainless steel, accurately ground to size. It will be supported at each end by sealed, antifriction ball bearings for rigid precise support.

Bearings will be protected from water and sediment by suitable stuffing boxes, flinger rings, and oil seals. No special or sleeve type bearings will be used.

Stuffing boxes will be of the conventional two (2) piece, split-gland type, to permit adjustment or replacement of Grafoil packing without disturbing the pump. Water will be fed into stuffing box lantern rings for proper lubrication and cooling when the pump is operating.

Lantern rings will be located at the inner ends of the stuffing boxes, to avoid having to remove them when replacing pump packing.

Wear rings will be bronze and easily replaceable to restore original pump efficiency and eliminate the need to replace the entire pump casing due to wear.

## **PUMP TRANSMISSION**

The pump transmission will be made of a three (3) piece, aluminum, horizontally split casing. Power transfer to pump will be through a high strength Morse HY-VO silent drive chain. By the use of a chain rather than gears, 50% of the sprocket will be accepting or transmitting torque, compared to two (2) or three (3) teeth doing all the work. Drive shafts will be 2.35" diameter hardened and ground alloy steel and supported by ball bearings. The case will be designed to eliminate the need for water cooling.

## **AIR PUMP SHIFT**

Pump shift engagement will be made by a two (2) position sliding collar, actuated pneumatically (by air pressure), with a three (3) position air control switch located in the cab. A manual back-up shift control will also be located on the driver's side pump panel.

Two (2) indicator lights will be provided adjacent to the pump shift inside the cab. One (1) green light will indicate the pump shift has been completed and be labeled "pump engaged". The second green light will indicate when the pump has been engaged, and that the chassis transmission is in pump gear. This indicator light will be labeled "OK to pump".

Another green indicator light will be installed adjacent to the hand throttle on the pump panel and indicate either the pump is engaged and the road transmission is in pump gear, or the road transmission is in neutral and the pump is not engaged. This indicator light will be labeled "Warning: Do not open throttle unless light is on".

The pump shift control in the cab will be illuminated to meet NFPA requirements.

#### TRANSMISSION LOCK-UP

The direct gear transmission lock-up for the fire pump operation will engage automatically when the pump shift control in the cab is activated.

## **AUXILIARY COOLING SYSTEM**

A supplementary heat exchange cooling system will be provided to allow the use of water from the discharge side of the pump for cooling the engine water. The heat exchanger will be cylindrical type and will be a separate unit. The heat exchanger will be installed in the pump or engine compartment with the control located on the pump operator's control panel. Exchanger will be plumbed to the master drain valve.

#### INTAKE RELIEF VALVE

An Elkhart relief valve will be installed on the suction side of the pump preset at 125 psig.

Relief valve will have a working range of 75 psig to 250 psig.

Outlet will terminate below the frame rails with a 2.50" National Standard hose thread adapter and will have a "do not cap" warning tag.

Control will be located behind an access door at a side pump panel.

#### PRESSURE GOVERNOR

This apparatus will be equipped with a Class1 "Sentry" engine/pump governor/throttle system that is connected directly to the Electronic Control Module (ECM) mounted on the engine. The "Sentry" is to operate as a pressure sensor (regulating) governor (PSG).

A special preset feature will permit a predetermined pressure of RPM to be set. The preset pressure or RPM will be displayed on the message display of the "Sentry" . The preset will be easily adjustable by the operator.

The pressure sensor governor system will be operable only after the vehicle parking brake has been set, the transmission is the pumping mode, and the fire pump has been engaged.

The pressure sensor governor system will have two (2) modes of operation: pressure mode or rpm mode.

When in the pressure mode, the PSG system will automatically maintain the discharge pressure set by the operator regardless of flow (within engine/pump operating capabilities).

In the rpm mode, the PSG system will automatically maintain a set engine speed, regardless of engine load (within engine operation capabilities).

A pump cavitation protection feature will be provided which will return the engine to idle should the pump cavitate. The digital display will include:

- Pump intake
- Pump discharge pressure
- Engine RPM
- Battery voltage
- Oil pressure and temperature
- Coolant temperature
- Transmission Temperature
- Total engine hours
- Total pump hours
- Fuel rate
- Target pressure display

The engine throttle will be a separate Twister rotary knob that can be operated in clockwise or counter clockwise operation.

#### PRIMER SYSTEM

A Waterous electric pump priming system conforming to standards outlined in the current edition of NFPA 1901 will be furnished with the apparatus.

- One (1) VPO electric motor driven rotary vane primer will be provided.
- One (1) VAP vacuum activated priming valve will be plumbed main pump.
- One (1) momentary push-button control will be located at the pump operator's panel.

The push button control system control will operate an electric priming motor and the priming valve will automatically open during priming and close when the primer is deactivated.

## **PUMP MANUALS**

Two (2) pump manuals from the pump manufacturer will be furnished in compact disc format with the apparatus. The manuals will cover pump operation, maintenance, and parts.

#### **PLUMBING**

All inlet and outlet plumbing, 3.00" and smaller, will be plumbed with either stainless steel pipe or synthetic rubber hose reinforced with high-tensile polyester braid. Small diameter secondary plumbing such as drain lines will be stainless steel, brass or hose.

Where vibration or chassis flexing may damage or loosen piping or where a coupling is required for servicing, the piping will be equipped with victaulic or rubber couplings.

Plumbing manifold bodies will be ductile cast iron or stainless steel.

All lines will drain through a master drain valve or will be equipped with individual drain valves. All individual drain lines for discharges will be extended with a hose to drain below the chassis frame.

All water carrying gauge lines will be of flexible polypropylene tubing.

#### MAIN PUMP INLETS

A 6.00" pump manifold inlet will be provided on each side of the vehicle. The suction inlets will include removable die cast zinc screens that are designed to provide cathodic protection for the pump, thus reducing corrosion in the pump.

## MAIN PUMP INLET CAP

The main pump inlets will have National Standard Threads with a long handle chrome cap.

The cap will be the Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.

## **VALVES**

All ball valves will be Akron® Brass. The Akron valves will be the 8000 series heavy-duty style with a stainless steel ball and a simple two-seat design. No lubrication or regular maintenance is required on the valve. Valves will have a **ten** (10) **year** warranty.

#### LEFT SIDE INLET

On the left side pump panel will be one (1) - 2.50" auxiliary inlet, terminating in 2.50" National Standard Hose Thread. The auxiliary inlet will be provided with a strainer, chrome swivel and plug. The location of the valve for the one (1) inlet will be recessed behind the pump panel.

#### **INLET CONTROL**

Control for the side auxiliary inlet(s) will be located at the inlet valve.

## INLET BLEEDER VALVE

A 0.75" bleeder valve will be provided for each side gated inlet. The valves will be located behind the panel with a swing style handle control extended to the outside of the panel. The handles will be chrome plated and provide a visual indication of valve position. The swing handle will provide an ergonomic position for operating the valve without twisting the wrist and provides excellent leverage. The water discharged by the bleeders will be routed below the chassis frame rails.

#### TANK TO PUMP

The booster tank will be connected to the intake side of the pump with heavy duty piping and a quarter turn 3.00" full flow line valve with the control remotely located at the operator's panel. Tank to pump line will run straight (no elbows) from the pump into the front face of the water tank and angle down into the tank sump. A rubber coupling will be included in this line to prevent damage from vibration or chassis flexing.

A check valve will be provided in the tank to pump supply line to prevent the possibility of "back filling" the water tank.

#### TANK REFILL

A 2.00" combination tank refill and pump re-circulation line will be provided, using a quarter-turn full flow ball valve controlled from the pump operator's panel.

## **LEFT SIDE DISCHARGE OUTLETS**

There will be two (2) discharge outlets with a 2.50" valve on the left side of the apparatus, terminating with 2.50" (M) National Standard hose thread adapter.

#### RIGHT SIDE DISCHARGE OUTLETS

There will be one (1) discharge outlet with a 2.50" valve on the right side of the apparatus, terminating with a 2.50" (M) National Standard hose thread adapter.

#### REAR DISCHARGE OUTLET

There will be one (1) discharge outlet piped to the rear of the hose bed, passenger's side, installed so proper clearance is provided for spanner wrenches or adapters. Plumbing will consist of 2.50" piping along with a 2.50" full flow ball valve with the control from the pump operator's panel.

#### **DISCHARGE CAPS**

Chrome plated, rocker lug, caps with chains will be furnished for all side discharge outlets.

The caps will be the Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.

#### **OUTLET BLEEDERS**

A 0.75" bleeder valve will be provided for each outlet 1.50" or larger. Automatic drain valves are acceptable with some outlets if deemed appropriate with the application.

The valves will be located behind the panel with a swing style handle control extended to the outside of the side pump panel. The handles will be chrome plated and provide a visual indication of valve position. The swing handle will provide an ergonomic position for operating the valve without twisting the wrist and provides excellent leverage. Bleeders will be located at the bottom of the pump panel. They will be properly labeled identifying the discharge they are plumbed in to. The water discharged by the bleeders will be routed below the chassis frame rails.

#### LEFT SIDE OUTLET ELBOWS

The 2.50" discharge outlets located on the left side pump panel will be furnished with a 2.50" (F) National Standard hose thread x 2.50" (M) National Standard hose thread, chrome plated, 45 degree elbow.

The elbow will be Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.

## RIGHT SIDE OUTLET ELBOWS

The 2.50" discharge outlets located on the right side pump panel will be furnished with a 2.50" (F) National Standard hose thread x 2.50" (M) National Standard hose thread, chrome plated, 45 degree elbow. The elbow will be Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.

## **REAR OUTLET ELBOWS**

The 2.50" discharge outlets located at the rear of the apparatus will be furnished with a 2.50" (F) National Standard hose thread x 2.50" (M) National Standard hose thread, chrome plated, 45 degree elbow.

The elbow will be Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.

## DISCHARGE OUTLET CONTROLS

The discharge outlets will incorporate a quarter-turn ball valve with the control located at the pump operator's panel. The valve operating mechanism will indicate the position of the valve.

If a handwheel control valve is used, the control will be a minimum of a 3.9" diameter stainless steel handwheel with a dial position indicator built in to the center of the handwheel.

#### **DELUGE RISER**

A 3.00" deluge riser will be installed above the pump in such a manner that a monitor can be mounted and used effectively. Piping will be rigidly braced and installed securely so no movement develops when the line is charged. The riser will be gated and controlled at the pump operator's panel.

The deluge riser will have male National Pipe Threads for mounting the monitor.

## **CROSSLAY HOSE BEDS**

Two (2) crosslays with 1.50" outlets will be provided. Each bed to be capable of carrying 200' of 1.75" double jacketed hose and will be plumbed with 2.00" i.d. pipe and gated with a 2.00" quarter turn ball valve.

Outlets to be equipped with a 1.50" National Standard hose thread 90 degree swivel located in the hose bed so that hose may be removed from either side of apparatus.

The crosslay controls will be at the pump operator's panel.

The center crosslay dividers will be fabricated of 0.25" aluminum and will provide adjustment from side to side. The divider will be unpainted with a brushed finish.

Vertical scuffplates constructed of stainless steel will be provided at the front and rear ends of the bed on each side of vehicle.

Crosslay bed flooring will consist of removable perforated brushed aluminum.

#### CROSSLAY/DEADLAY HOSE RESTRAINT

Elastic netting will be provided across the top and ends of two (2) crosslay/deadlay opening(s) to secure the hose during travel. The netting will be permanently attached at the top center of the crosslay/deadlay bed and removable on each end.

#### FOAM SYSTEM

A foam system will not be required on this apparatus.

## PUMP COMPARTMENT

The pump compartment will be separate from the hose body and compartments so that each may flex independently of the other. It will be a fabricated assembly of steel tubing, angles and channels which supports both the fire pump and the side running boards.

The pump compartment will be mounted on the chassis frame rails with rubber biscuits in a four point pattern to allow for chassis frame twist.

Pump compartment, pump, plumbing and gauge panels will be removable from the chassis in a single assembly.

## **PUMP MOUNTING**

Pump will be mounted to a substructure which will be mounted to the chassis frame rail using rubber isolators. The mounting will allow chassis frame rails to flex independently without damage to the fire pump.

#### LEFT SIDE PUMP CONTROL PANELS

All pump controls and gauges will be located at the left (driver's) side of the apparatus and properly identified. Layout of the pump control panel will be ergonomically efficient and systematically organized.

The pump operator's control panel will be removable in two (2) main sections for ease of maintenance:

The upper section will contain sub panels for the mounting of the pump pressure control device, engine monitoring gauges, electrical switches, and foam controls (if applicable). Sub panels will be removable from the face of the pump panel for ease of maintenance. Below the sub panels will be located all valve controls and line pressure gauges.

The lower section of the panel will contain all inlets, outlets, and drains.

All push/pull valve controls will have 1/4 turn locking control rods with polished chrome plated zinc tee handles. Guides for the push/pull control rods will be chrome plated zinc castings securely mounted to the pump panel. Push/pull valve controls will be capable of locking in any position. The control rods will pull straight out of the panel and will be equipped with universal joints to eliminate binding.

#### **IDENTIFICATION TAGS**

The identification tag for each valve control will be recessed in the face of the tee handle.

All discharge outlets will have color coded identification tags, with each discharge having its own unique color. Color coding will include the labeling of the outlet and the drain for each corresponding discharge.

All line pressure gauges will be mounted directly above the corresponding discharge control tee handles and recessed within the same chrome plated casting as the rod guide for quick identification. The gauge and rod guide casting will be removable from the face of the pump panel for ease of maintenance. The casting will be color coded to correspond with the discharge identification tag.

All remaining identification tags will be mounted on the pump panel in chrome plated bezels.

The pump panel on the right (passenger's) side will be removable with lift and turn type fasteners.

Trim rings will be installed around all inlets and outlets.

The trim rings for the side discharge outlets will be color coded and labeled to correspond with the discharge identification tag.

#### PUMP PANEL CONFIGURATION

The pump panel configuration will be arranged and installed in an organized manner that will provide user-friendly operation.

#### **PUMP AND GAUGE PANEL**

The pump and gauge panels will be constructed of aluminum with a black vinyl finish. A polished aluminum trim molding will be provided around each panel.

The passenger's side pump panel will be removable and fastened with swell type fasteners.

#### PUMP COMPARTMENT LIGHT

A pump compartment light will be provided inside the right side pump enclosure and accessible through a door on the pump panel.

A .125" weep hole will be provided in each light lens, preventing moisture retention.

Engine monitoring graduated LED indicators will be incorporated with the pressure controller.

Also provided at the pump panel will be the following:

- Master Pump Drain Control

## **VACUUM AND PRESSURE GAUGES**

The pump vacuum and pressure gauges will be liquid filled and manufactured by Class 1, Inc.

The gauges will be a minimum of 4.00" in diameter and will have white faces with black lettering, with a pressure range of 30.00"-0-600#.

Gauge construction will include a Zytel nylon case with adhesive mounting gasket and threaded retaining nut.

The pump pressure and vacuum gauges will be installed adjacent to each other at the pump operator's control panel. Test port connections will be provided at the pump operator's panel. One will be connected to the intake side of the pump, and the other to the discharge manifold of the pump. They will have 0.25 in. standard pipe thread connections and non-corrosive polished stainless steel or brass plugs. They will be marked with a label.

This gauge will include a 10 year warranty against leakage, pointer defect, and defective bourdon tube.

#### PRESSURE GAUGES

The individual "line" pressure gauges for the discharges will be Class 1 interlube filled.

They will be a minimum of 2.00" in diameter and have white faces with black lettering.

Gauge construction will include a Zytel nylon case with adhesive mounting gasket and threaded retaining nut. Gauges will have a pressure range of 30"-0-400#.

The individual pressure gauge will be installed as close to the outlet control as practical.

This gauge will include a 10 year warranty against leakage, pointer defect, and defective bourdon tube.

## WATER LEVEL GAUGE

There will be an electronic water level gauge provided on the operator's panel that registers water level by means of five (5) colored LED lights. The lights will be durable, ultra-bright five (5) LED design viewable through 180 degrees. The water level indicators will be as follows:

- 100 percent = Green
- 75 percent = Yellow
- 50 percent = Yellow
- 25 percent = Yellow
- Refill = Red

The light will flash when the level drops below the given level indicator to provide an eighth of a tank indication.

To further alert the pump operator, the lights will flash sequentially when the water tank is empty.

The level measurement will be based on the sensing of head pressure of the fluid in the tank.

The display will be constructed of a solid plastic material with a chrome plated die cast bezel to reduce vibrations that can cause broken wires and loose electronic components. The encapsulated design will provide complete protection from water and environmental elements. An industrial pressure transducer will be mounted to the outside of the tank. The field calibratable display measures head pressure to accurately show the tank level.

## LIGHT SHIELD

There will be a polished, 16 gauge stainless steel light shield installed over the pump operators panel.

• There will be 12 volt DC white LED lights installed under the stainless steel light shield to illuminate the controls, switches, essential instructions, gauges, and instruments necessary for the operation of the apparatus. These lights will be activated by the pump

panel light switch. Additional lights will be included every 18.00" depending on the size of the pump house.

• One (1) pump panel light will come on when the pump is in ok to pump mode.

There will be a light activated above the pump panel light switch when the parking brake is set. This is to afford the operator some illumination when first approaching the control panel.

There will be a green pump engaged indicator light activated on at the operator's panel when the pump is shifted into gear from inside the cab.

## AIR HORN SYSTEM

Two (2) Hadley round air horns with 6.00" bell will be provided and located one (1) each side of the engine. The horn system will be piped to the air brake system wet tank utilizing 0.38" tubing. A pressure protection valve will be installed in-line to prevent the loss of air, in the air brake system.

#### AIR HORN CONTROL

The air horns will be actuated by a lanyard rope pull control within reach of the officer and by the horn button in the steering wheel. The driver will have the option to control the air horns or the chassis horns from the horn button by means of a selector switch located on the instrument panel.

#### **ELECTRONIC SIREN**

A Whelen®, Model 295SLSA1, electronic siren with noise canceling microphone will be provided.

This siren to be active when the battery switch is on and that emergency master switch is on.

Siren head will be located in the console.

Siren will be actuated by a foot switch on the officer's side and by the horn button in the steering wheel. The driver will have the option to control the siren or the chassis horns from the horn button by means of a selector switch.

#### **SPEAKER**

There will be one (1) speaker provided. Each speaker will be a Whelen, Model SA314A, 100-watt, cast aluminum with natural finish. Each speaker will be connected to the siren amplifier.

The speaker(s) will be recessed in the front bumper on the driver's side.

#### **CAB ROOF LIGHTBAR**

There will be one (1) 47.00" Code 3, Model 21TR47NFPA1 lightbar mounted on the cab roof. This lightbar will include the following:

- Five (5) red flashing LED modules in the front of the lightbar.
- Four (4) red flashing LED corner modules.
- Two (2) red flashing LED end modules.

There will be one (1) switch located in the cab on the switch panel to control this lightbar.

#### FRONT ZONE LOWER LIGHTING

Two (2) Code 3®, Model 378XBZ-75, LED flashing warning lights with bezels will be located at the front of the apparatus.

The driver's side front warning light to be red.

The passenger's side front warning light to be red.

Both lights will include a lens that is the same color as the LED's.

Both lights will be controlled by a lighted switch on the cab instrument panel.

## SIDE ZONE LOWER LIGHTING

Four (4) Code-3® model 65 flashing LED lights will be located at the following positions:

Two (2) lights, one (1) each side on the engine hood under 62.00", one each side.

The color of these lights will be red LED/red lens.

Two (2) lights, over rear wheel wells, one each side.

The color of these lights will be red LED/red lens.

These lights will be provided without a flange.

The above four (4) lights will be required to meet or exceed the lower level optical warning and optical power requirements of NFPA.

There will be one (1) switch located in the cab on the switch panel to control the lights.

## **REAR ZONE LOWER LIGHTING**

Two (2) Code 3®, model 65, LED lights will be located at the rear of the apparatus and will be required to meet the lower level optical warning and optical power requirements of NFPA.

The color of the lights will be red LED/red lens.

The lights will be installed without a flange

There will be a switch located in the cab on the switch panel to control the lights.

#### **REAR OF HOSEBED WARNING LIGHTS**

There will be a pair of Code 3®, Model DB2-2TCNFPA\* LED beacons provided at the rear of the truck located, one (1) each side.

Both beacons will be include a two (2) Tricore, TC6 red LED modules with both domes clear.

There will be one (1) switch located in the cab on the switch panel to control the beacons.

The rear warning lights will be mounted on stainless steel brackets with all wiring totally enclosed. These brackets will also support the clearance/marker lights.

## **LOOSE EQUIPMENT**

The following equipment will be furnished with the completed unit:

- One (1) bag of chrome, stainless steel, or cadmium plated screws, nuts, bolts and washers, as used in the construction of the unit.

#### NFPA REQUIRED LOOSE EQUIPMENT, PROVIDED BY FIRE DEPARTMENT

The following loose equipment as outlined in NFPA 1901, 2009 edition, section 5.8.2 and 5.8.3 will be provided by the fire department. All loose equipment will be installed on the apparatus before placed in emergency service, unless the fire department waives NFPA section 4.21.

- 800 ft (60 m) of 2.50" (65 mm) or larger fire hose.
- 400 ft (120 m) of 1.50" (38 mm), 1.75" (45 mm), or 2.00" (52 mm) fire hose.
- One (1) handline nozzle, 200 gpm (750 L/min) minimum.
- Two (2) handline nozzles, 95 gpm (360 L/min) minimum.
- One (1) playpipe with shutoff and 1.00" (25 mm), 1.125" (29 mm), and 1.25" (32 mm) tips.
- One (1) SCBA complying with NFPA 1981, *Standard on Open-Circuit Self-Contained Breathing Apparatus for Fire and Emergency Services*, for each assigned seating position, but not fewer than four (4), mounted in brackets fastened to the apparatus or stored in containers supplied by the SCBA manufacturer.
- One (1) spare SCBA cylinder for each SCBA carried, each mounted in a bracket fastened to the apparatus or stored in a specially designed storage space(s).
- One (1) first aid kit.
- Four (4) combination spanner wrenches mounted in bracket(s) fastened to the apparatus.
- Two (2) hydrant wrenches mounted in brackets fastened to the apparatus.
- Four (4) ladder belts meeting the requirements of NFPA 1983, *Standard on Fire Service Life Safety Rope and System Components* (if equipped with an aerial device).

- One (1) double female 2.50" (65 mm) adapter with National Hose threads, mounted in a bracket fastened to the apparatus.
- One (1) double male 2.50' (65 mm) adapter with National Hose threads, mounted in a bracket fastened to the apparatus.
- One (1) rubber mallet, for use on suction hose connections, mounted in a bracket fastened to the apparatus.
- Two (2) salvage covers each a minimum size of 12 ft x 14 ft (3.7 m x 4.3 m).
- One (1) traffic vest for each seating position, each vest to comply with ANSI/ISEA 207, *Standard for High Visibility Public Safety Vests*, and have a five-point breakaway feature that includes two (2) at the shoulders, two (2) at the sides, and one (1) at the front.
- Five (5) fluorescent orange traffic cones not less than 28.00" (711 mm) in height, each equipped with a 6.00" (152 mm) retro-reflective white band no more than 4.00" (152 mm) from the top of the cone, and an additional 4.00" (102 mm) retro-reflective white band 2.00" (51 mm) below the 6.00" (152 mm) band.
- Five (5) illuminated warning devices such as highway flares, unless the five (5) fluorescent orange traffic cones have illuminating capabilities.
- One (1) automatic external defibrillator (AED).
- If the supply hose carried does not use sexless couplings, an additional double female adapter and double male adapter, sized to fit the supply hose carried, will be carried mounted in brackets fastened to the apparatus.
- If none of the pump intakes are valved, a hose appliance that is equipped with one or more gated intakes with female swivel connection(s) compatible with the supply hose used on one side and a swivel connection with pump intake threads on the other side will be carried. Any intake connection larger than 3.00" (75 mm) will include a pressure relief device that meets the requirements of 16.6.6.
- If the apparatus does not have a 2.50" National Hose (NH) intake, an adapter from 2.50" NH female to a pump intake will be carried, mounted in a bracket fastened to the apparatus if not already mounted directly to the intake.
- If the supply hose carried has other than 2.50" National Hose (NH) threads, adapters will be carried to allow feeding the supply hose from a 2.50" NH thread male discharge and to allow the hose to connect to a 2.50" NH female intake, mounted in brackets fastened to the apparatus if not already mounted directly to the discharge or intake.

#### **SOFT SUCTION HOSE**

There will be a 15 foot length of 6.00" soft suction hose provided with a 6.00" long handle swivel coupling on one (1) end and a 4.50" long handle swivel coupling on the other.

#### DRY CHEMICAL EXTINGUISHER PROVIDED BY FIRE DEPARTMENT

NFPA 1901, 2009 edition, section 5.8.3 requires one (1) approved dry chemical portable fire extinguisher with a minimum 80-B:C rating mounted in a bracket fastened to the apparatus.

The extinguisher is not on the apparatus as manufactured. The fire department will provide and mount the extinguisher.

## WATER EXTINGUISHER PROVIDED BY FIRE DEPARTMENT

NFPA 1901, 2009 edition, section 5.8.3 requires one (1) 2.5 gallon or larger water extinguisher mounted in a bracket fastened to the apparatus.

The extinguisher is not on the apparatus as manufactured. The fire department will provide and mount the extinguisher.

## FLATHEAD AXE PROVIDED BY FIRE DEPARTMENT

NFPA 1901, 2009 edition, Section 5.8.3 requires one (1) flathead axe mounted in a bracket fastened to the apparatus.

The axe is not on the apparatus as manufactured. The fire department will provide and mount the axe.

## PICKHEAD AXE PROVIDED BY FIRE DEPARTMENT

NFPA 1901, 2009 edition, Section 5.8.3 requires one (1) pickhead axe mounted in a bracket fastened to the apparatus.

The axe is not on the apparatus as manufactured. The fire department will provide and mount the axe.

#### **PAINT**

The exterior custom body painting finishing process as follows:

Manual Surface Preparation - All exposed metal surfaces on the custom body will be thoroughly cleaned and prepared for painting. Surfaces that will not be painted include all chrome plated, stainless steel, anodized aluminum and bright aluminum treadplate. Each imperfection on the exterior metal surface will be removed or filled and then sanded smooth for a smooth appearance. All seams will be sealed before painting. Chemical Cleaning and Treatment - The metal surfaces will be properly cleaned using a acid etching system.

Surfaces are chemically cleaned to remove all dirt, oil, grease and metal oxides to ensure the subsequent coatings bond well. An ultra pure water final rinse will be applied to all metal surfaces, excluding undercarriage components, at the conclusion of the metal treatment process.

Sealer Primer Coat - A two (2) component sealer primer coat will be applied.

Topcoat Paint - Urethane base coat will be applied to opacity for correct color matching.

Clearcoat - Two (2) coats of an automotive grade two (2) component urethane will be applied. Lap style doors will be clear coated to match the body. Roll-up doors will not be clear coated and the standard roll-up door warranty will apply.

All removable items such as brackets, compartment doors, door hinges, trim, etc. will be removed and painted separately to insure paint behind all mounted items. Body assemblies that cannot be finish painted after assembly will be finish painted before assembly.

The chassis will be painted by the chassis manufacturer, and will remain the commercial grade finish as provided. To ensure a good color match between the body and chassis, the apparatus manufacturer and chassis manufacturer will have a mutually preapproved paint color program. The apparatus will be painted Pierce #90 candy apple red . Prior to reassembly and reinstallation of lights, handrails, door hardware and any miscellaneous body items, an isolation tape or gasket material must be used to prevent damage to the finish painted surfaces. A nylon washer will be installed under each acorn nut or metal screw that is fastened directly to a painted body surface.

#### PAINT - ENVIRONMENTAL IMPACT

Contractor will meet or exceed all current State (his) regulations concerning paint operations. Pollution control will include measures to protect the atmosphere, water and soil. Controls will include the following conditions:

- Topcoats and primers must be chrome and lead free.
- Metal treatment chemicals must be chrome free. The wastewater generated in the metal treatment process must be treated to remove any other heavy metals.
- Particulate emissions from painting operations must be collected by a dry filter or water wash process.
- Solvents used in clean-up operations must be collected, sent off-site for distillation and returned for reuse. Additionally, the finished apparatus will not be manufactured with or contain products that have ozone depleting substances. Contractor will, upon demand, present evidence that his manufacturing facility meets the above conditions and that it is in compliance with his State EPA rules and regulations.

#### COMMERCIAL CHASSIS PAINT

The chassis will be painted by the chassis manufacturer. It will remain the color and commercial quality finish as provided. The primary color will be Pierce #90 candy apple red.

## PAINT CHASSIS FRAME ASSEMBLY

The chassis frame assembly shall be painted black by the chassis manufacturer. It shall remain the commercial grade finish as provided.

#### WHEEL PAINT

The wheels will be painted black by Pierce to better accent wheel simulators as specified elsewhere in this proposal.

## **COMPARTMENT INTERIOR PAINT**

The compartment interior will be painted with a gray spatter finish for ease of cleaning and to make it easier to touch up scratches and nicks.

## **REFLECTIVE BAND**

A 10.00" white reflective band will be provided across the front of the vehicle and along the sides of the body. The reflective vinyl band will be provided across the front bumper.

## **CHEVRON STRIPING, REAR**

There will be alternating chevron striping located on the rear-facing vertical surface of the apparatus. The rear surface, excluding the rear compartment door, will be covered.

The colors will be red and fluorescent yellow diamond grade.

Each stripe will be 6.00" in width.

This will meet the requirements of NFPA 1901, 2009 edition, which states that 50% of the rear surface will be covered with chevron striping.

## REFLECTIVE STRIPE, CAB DOORS

A white reflective stripe will be provided on the interior of each cab door.

This stripe will be a minimum of 96.00 square inches and will meet the NFPA 1901 requirement.

## CD MANUAL, BODY PARTS ONLY

A custom parts manual for the Pierce® installed parts only will be provided in CD format with the completed unit. The manual will contain the following:

- Job number
- Part numbers with full descriptions
- Table of contents
- Parts section sorted in functional groups reflecting a major system, component, or assembly
- Parts section sorted in Alphabetical order
- Instructions on how to locate parts

The manual will be specifically written for the body model being purchased. It will not be a generic manual for a multitude of different bodies.

#### SERVICE PARTS INTERNET SITE

The service parts information included in this manual are also available on the Pierce website. The website offers additional functions and features not contained in this manual, such as digital photographs and line drawings of select items. The website also features electronic search tools to assist in locating parts quickly.

#### MANUALS, SERVICE

A CD format service manual supplement containing parts and service information on Pierce® installed components will be provided with the completed unit.

The manual will be specifically written for the unit being purchased. It will not be a generic manual for a multitude of different units.

#### MANUAL, CHASSIS OPERATION

One (1) chassis operation manual will be provided with the completed unit.

## ONE (1) YEAR MATERIAL AND WORKMANSHIP

Each new piece of apparatus will be provided with a minimum one (1) year basic apparatus material and workmanship limited warranty. The warranty will cover such portions of the apparatus built by the manufacturer as being free from defects in material and workmanship that would arise under normal use and service. A copy of the warranty certificate will be submitted with the bid package.

## **CHASSIS WARRANTY**

The basic chassis warranty is for a total of three (3) years or 200,000 miles.

#### PAINT WARRANTY

The commercial chassis manufacturer's paint warranty will apply to the paint on the chassis only.

## **COMPARTMENT LIGHT WARRANTY**

A ten (10) year material and workmanship limited warranty will be provided for the Pierce 12 volt DC LED strip lights. The warranty will cover the LED strip lights to be free from defects in material and workmanship that would arise under normal use.

A copy of the warranty certificate will be submitted with the bid package (No Exception).

## **TRANSMISSION WARRANTY**

The transmission will have a **five** (5) **year/unlimited mileage** warranty covering 100 percent parts and labor. The warranty to be provided by Allison Transmission and not apparatus builder.

### WATER TANK WARRANTY

A UPF poly water tank limited warranty certificate, WA0195, is included with this proposal.

#### TEN (10) YEAR STRUCTURAL INTEGRITY

The Pierce apparatus body limited warranty certificate, WA0009, is included with this proposal.

## ROLL UP DOOR MATERIAL AND WORKMANSHIP WARRANTY

A Gortite roll-up door limited warranty will be provided. The mechanical components of the roll-up door will be warranted against defects in material and workmanship for the lifetime of the vehicle. A **six** (6) **year** limited warranty will be provided on painted and satin roll up doors.

The limited warranty certificate, WA0190, is included with this proposal.

#### **PUMP WARRANTY**

A Waterous pump limited warranty certificate, WA0225, is included with this proposal.

## TEN (10) YEAR PUMP PLUMBING WARRANTY

The Pierce apparatus plumbing limited warranty certificate, WA0035, is included with this proposal.

## TEN (10) YEAR PRO-RATED PAINT AND CORROSION

A Pierce body limited pro-rated paint warranty certificate, WA0057, is included with this proposal.

## VEHICLE STABILITY CERTIFICATION

The fire apparatus manufacturer will provide a certification stating the apparatus complies with NFPA 1901, current edition, section 4.13, Vehicle Stability. The certification will be provided at the time of bid.

## **CAB INTEGRITY**

The cab has been tested to and passed the following standards:

- SAE J2422 Cab Roof Strength Evaluation - Quasi-Static Loading Heavy Trucks.

#### AMP DRAW REPORT

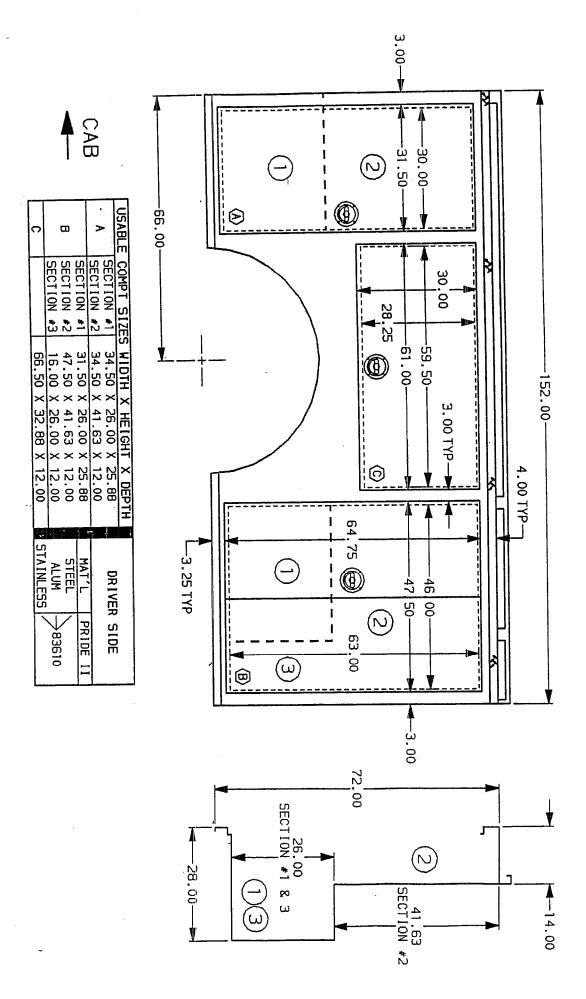
The bidder will provide, at the time of bid and delivery, an itemized print out of the expected amp draw of the entire vehicle's electrical system.

The manufacturer of the apparatus will provide the following:

- Documentation of the electrical system performance tests.
- A written load analysis, which will include the following:
  - o The nameplate rating of the alternator.
  - o The alternator rating under the conditions specified per:
    - Applicable NFPA 1901 or 1906 (Current Edition).
  - The minimum continuous load of each component that is specified per:
    - Applicable NFPA 1901 or 1906 (Current Edition).
  - Additional loads that, when added to the minimum continuous load, determine the total connected load.
  - o Each individual intermittent load.

All of the above listed items will be provided by the bidder per the applicable NFPA 1901 or 1906 (Current Edition).

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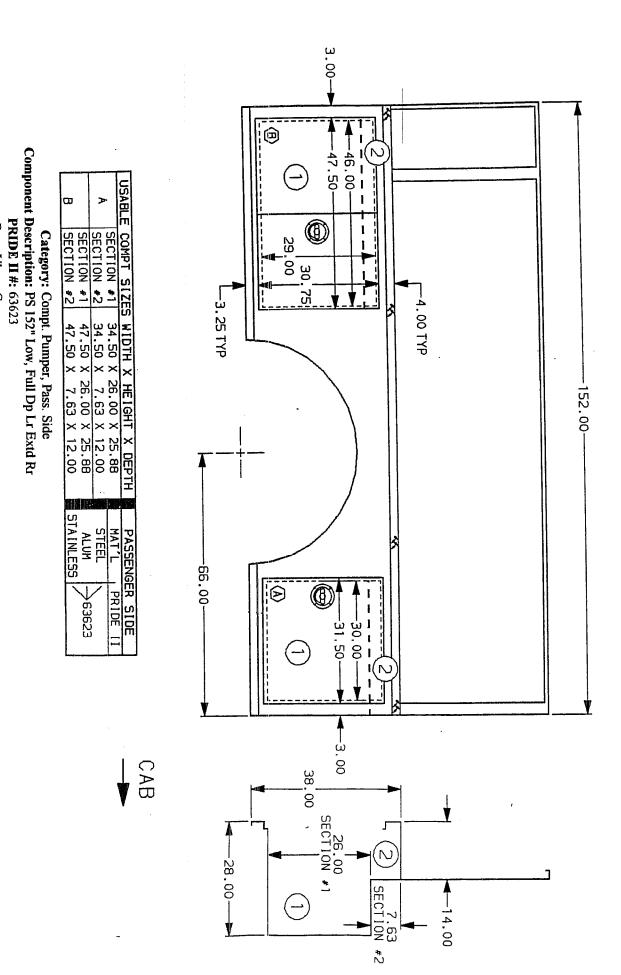


Category: Compt. Pumper, Driver Side Component Description: DS 152" Full Hght Ft&Rr PRIDE II #: 83610

Rear View: B

Z N

Pg. 2 Bid # 422



Z :

Rear View: C