Request for Quote

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
ONE CAPITOL HILL
PROVIDENCE RI 02908

CREATION DATE : 09-OCT-15
BID NUMBER: 7549961
TITLE: TRUCK MOUNTED, AIRLESS WATERBORNE PAINT STRIPER - DOT

BID CLOSING DATE AND TIME:02-NOV-2015 01:00:00

BUYER: Hill, Lisa
PHONE #: 401-574-8118

BILL TO
DOT MAINTENANCE BUSINESS OFFICE
360 LINCOLN AVE
WARWICK, RI 02888
US

SHIP TO
DOT MAINTENANCE BUSINESS OFFICE
360 LINCOLN AVE
WARWICK, RI 02888
US

Requistion Number: 1432629

Line	Description	Quantity	Unit	Unit Price	Total
	QUESTIONS CONCERNING THIS SOLICITATION MAY BE ADDRESSED TO LISA HILL AT lisa.hill@purchasing.ri.gov no later than October 26, 2015 at 4:00 p.m.				
1	TRUCK MOUNTED, AIRLESS WATERBORN PAINT STRIPER, PER ATTACHED SPECIFICATIONS DESCRIPTION: THIS REQUEST IS PART OF AN EQUIPMENT NEED WHICH RELATES TO THE DEPARTMENT'S PLANNED UNDERTAKING OF ROAD STRIPING OPERATIONS	1.00	Each		

Delivery: _____

Terms of Payment: _____

It is the Vendor's responsibility to check and download any and all addenda from the RIVIP. This offer may not be considered unless a signed RIVIP generated Bidder Certification Cover Form is attached and the Unit Price column is completed. The signed Certification Cover Form must be attached to the front of the offer

DESCRIPTION: TRUCK MOUNTED, AIRLESS WATERBORNE PAINT STRIPER W/2-300 GALLON TANKS MOUNTED ON A DUAL STEER, TANDEM AXLE CHASSIS

Quantity:	1			Vendor Indicate Compliance Yes/No
Department:	DOT	**Fuel Type:**	DIESEL	
Division:	MAINTENANCE	**Color:** *if not offered may be changed at award	WHITE	
RI-FANS Requisition Number:				

STANDARD FEATURES	FOR VENDOR USE ONLY TO INDICATE COMPLIANCE ↓	↓
	Yes/No	Specify Alternative (if responding no)

1. GENERAL

	1.1	The specified machine shall be complete with all equipment required to be capable of simultaneously applying two (2) lines in two colors, for example, two (2) yellow 4 inch wide lines, two (2) white 4 inch wide at up to 15 mils thick at speeds up to12 mph.		
	1.2	The delivery of the truck mounted Airless Paint unit shall be made to the Department of Transportation no later than 250-270 days after receipt of award.		
	1.3	The specified machine must not have any portion of the striper more than 12'10" above the ground except when the rear arrow board is in an upright or operational position. The rear arrowboard, when in an operational position must not exceed 11'8"above the ground with the arrow board in the down position.		
	1.4	The specified machine must not have any portion of the striper more than		

STANDARD FEATURES			FOR VENDOR USE ONLY TO INDICATE COMPLIANCE ↓	↓
			Yes/No	Specify Alternative (if responding no)
		96" wide, except the chassis mirrors.		
	1.5	Prototypes will be unacceptable. Bidders shall supply a list including the name of organization/company, contact person, phone number and date of delivery of users meeting this requirement. The specified machine shall not be a prototype. The responsible supplier must have a minimum of six (6) units built to this specification utilizing the same airless system equipped with solenoid weather resistant boxes, main electrical electric junction box, square tube gun carriages, tilt down easy access rear control console, and be in service for at least two (2) years.		
	1.6	Photo documentation of specific items within the specification must be included with bid documents. Failure to submit photo documentation will result in the bid being non-responsive. Items requiring photo documentation are noted in the appropriate sections below.		

2. CAB & CHASSIS

	2.1	The cab and chassis will be a 2016 Autocar, Peterbilt or approved equal, low entry cab over design with a GVW of 64,700 pounds. It shall be equipped with a 20,000 lb. capacity front axle and suspension with 18,740 lb. capacity rated tires. The rear suspension shall be equipped with a 46,000 lb.capacity, **air ride** suspension, no exceptions. It shall have of approximately a 180-		

STANDARD FEATURES			FOR VENDOR USE ONLY TO INDICATE COMPLIANCE ↓	↓
			Yes/No	Specify Alternative (if responding no)
		200" wheel base. Vehicle must be complete with a extended warranty.		
	2.2	The chassis shall be equipped with a diesel engine with a minimum 380 hp and 1250 foot pounds of torque.		
	2.3	The chassis shall be equipped with Allison 4000RDS 5 speed automatic with push button controls. It shall be equipped with a 5.63 ratio rear axle suitable for striping operations.		
	2.4	The chassis shall be equipped a minimum 100 gallons of diesel fuel.		
	2.5	The chassis shall be equipped with dual steering and controls. The gauge package for the left and right steering position shall be equal.		
	2.6	The chassis shall be equipped aluminum rims and 385/65R22.5J 18PR Michelin radial XZY tires front tires. The rear rims shall be aluminum with 11R22.5, H, 16PR Michelin XZE tires.		
	2.7	The chassis shall be equipped with a dash mounted air conditioner. Roof top AC systems.		
	2.8	The chassis shall be equipped with cruise control, AM/FM stereo radio and two (2) air horns.		
	2.9	The chassis shall be equipped with air brakes and an engine brake – Jacobs type.		
	2.10	The chassis shall be equipped with a 300 amp alternator and a 2250 CCA battery.		
	2.11	It shall be equipped with dual power mirrors.		
	2.12	Unit to be equipped with 6" steel convex mirrors LH and RH		

STANDARD FEATURES			FOR VENDOR USE ONLY TO INDICATE COMPLIANCE	
			Yes/No	Specify Alternative (if responding no)
	2.13	Dual National Cush II Lo Deluxe (or equal) air ride seats shall be provided for the driver and passenger.		
	2.14	Color to be specified by end user.		
		Paint striper body shall be painted to meet end user requirements. Platform, rear platform, operators shelter, paint and bead tanks, rails, steps, gun carts, weather resistant solenoid boxes, video guidance slide assembly, video guidance camera housing and all ladders shall be powder coated. All other equipment shall be painted with a high quality urethane based paint.		
	2.15	The chassis shall be equipped with a vertical muffler system		
	2.16	Unit to be equipped with padded ergonomic instrument panel with large easy to read gauges, electronic speedometer (MPH & KPH), re-setable trip odometer, tachometer, voltmeter, oil pressure gauge, fuel gauge and air pressure gauge, and DEF gauge.		
	2.17	Unit to be equipped with warning lights for left and right turn signals, high beam, battery, "Check Gauges", "service Engine Soon", low coolant, low air, air inlet heater, seat belt warning, low oil pressure and high water temperature alarm.		
	2.18	Vehicle must be complete with a minimum of three year extended warrenty.		

3. FABRICATED PARTS

	3.1	A foldable and extendible center mount/ pivot steel guide wheel assembly with brackets for attaching a hydraulic lift will be supplied and mounted to the cab and		

		STANDARD FEATURES	FOR VENDOR USE ONLY TO INDICATE COMPLIANCE	
			Yes/No	Specify Alternative (if responding no)
		chassis front bumper. A square tube within a square tube design will be provided. The guidance bar will ride on a pneumatic tire when in the "float" position. The assembly will easily move from mounting brackets on the left side for left side driving to mounting brackets on the right side.		
	3.2	The platform will be of sufficient size and strength to accommodate the specified equipment. A 96" inches wide steel heavy duty platform (striper deck) with 1 1/2" diameter round steel side railings, built in rear access steps, 36 inch X 96 inch deep rear platform equipped with retractable side rails and fixed rear rails shall be provided. The platform, rails, spray gun carriages / scissor assemblies, carts, rear deck, platform access steps, paint and bead tanks, electrical junction box, loading steps, camera guidance housing, camera slide assembly and rear shelter shall be coated by a powder coat method of painting. A certificate of compliance shall accompany the bid attesting to compliance to this requirement One (1) fold up access ladder shall be provided on each side of the equipment platform.		
	3.3	Heavy-duty in-line, hydraulically extendible, square style gun carriage assemblies will be provided and mounted under the steel platform above the chassis frame rails and just behind the rear axles. Carriages shall extend 4' from the edge of the bed on the centerline side and 60" on the edgeline side. The carriages shall slide on oil impregnated nylon. Each carriage square tube two per slide, four (4) total shall be equipped with cam followers to provide additional rigidity. The cam followers shall ride on stainless steel wear strips located on the bottom of each square tube, four (4) each supplied. An additional four (4) cam followers shall be installed on the top side of the square tubes. Bidders to provide photo documentation showing carriage assemblies, cam followers,		

STANDARD FEATURES			FOR VENDOR USE ONLY TO INDICATE COMPLIANCE ↓	↓
			Yes/No	Specify Alternative (if responding no)
		stainless inserts and oil impregnated slides. Failure to provide photo documentation will result in the bid being non- responsive and will be rejected.		
	3.4	Two (2) heavy duty pneumatically raised and lowered scissors style gun carts will be provided and mounted to the outside ends of the square carriage gun assemblies. One will be mounted to the centerline side of the striper and one will be mounted to the edgeline side of the striper. The scissors style gun carts will ride on dual pneumatic tires.		
	3.5	Fabricated steel hangers mounted to the gun cart and steel brackets mounted under the striper platform will be provided to hold the gun carts secure when in the travel position. Chain systems to secure carriages are not allowed.		
	3.6	One (1) hinged, two piece steel construction control console will be mounted to the striper platform between the rear operator's stations. The hinged console design will enable easy access to console mounted controls for maintenance. It shall tilt forward 40 degrees to allow maximum accessibility for servicing. A single rear removable panel shall be mounted requiring no tools to remove to allow access to internal systems. The removable panel shall be designed to expose the entire rear of the control console. A protective console cover will also be provided. Bidders shall provide photo documentation showing hinged console system in both closed and tilted position, the removable rear panel both mounted and removed. Failure to provide photo documentation will result in the bid being non-responsive and will be rejected.		
	3.7	Two (2) air ride type operators' seats with arm rests shall be installed in the rear operator's shelter. They shall be mounted tool boxes and each equipped		

STANDARD FEATURES			FOR VENDOR USE ONLY TO INDICATE COMPLIANCE ↓	↓
			Yes/No	Specify Alternative (if responding no)
		with seat belts.		
	3.8	One (1) Steel hydraulic reservoir with sight gauge, magnetic particle separator, interior baffle and removable lid.		
	3.9	Two (2) glass bead manifolds will be mounted to the gun carriage assemblies. One (1) mounted on the centerline side and one (1) on the edgeline side.		
	3.10	Aluminum tread plate panels will be provided to cover some surfaces.		
	3.11	A steel step assemblies with hand rail mounted to the bed shall be provided to access material tanks as needed.		
	3.12	Two (2) steel mounting pedestals shall be provided for the hydraulic steering orbital to control lateral movement of the gun carriages. The steering wheels shall be equipped with tilt and telescoping functions.		
	3.13	Two (2) bead manifolds with exhaust mufflers shall be mounted on the gun carts. One manifold per cart.		
	3.14	Two (2) stainless steel paint filter assemblies with stainless steel filter elements shall be supplied with a minimum 100 square inches shall be provided. Each filter assembly shall be have stainless steel valves to isolate the filters from the main paint lines to allow cleaning. An additional valve shall be installed to drain the filter assembly.		
	3.15	A rear high visibility rear operator's steel enclosed operator's shelter shall be provided.		

4. DIESEL AIR COMPRESSOR AND AUXILLARY HYDRAULIC POWER SYSTEM

	STANDARD FEATURES		FOR VENDOR USE ONLY TO INDICATE COMPLIANCE	
			Yes/No	Specify Alternative (if responding no)
	4.1	The air compressor shall be a utility mount or approved equal T4 Final 250 CFM equipped with a John Deere or Deutz diesel engine. It shall have 120-amp alternator. The compressor shall be painted to match the thermoplastic "body", no exceptions. Fuel for the compressor shall be drawn from the chassis fuel system.		
	4.2	The air compressor shall be equipped with a direct drive hydraulic system to provide hydraulic power for the striper spray system and other systems requiring hydraulic power. The hydraulic system shall be equipped with hydraulic reservoir equipped with a sight gauge, magnetic particle separator, interior baffles and removable. The hydraulic system shall be equipped with a hydraulic cooler of sufficient size for the system. It shall be mounted on top of the air compressor housing to allow for maximum air flow.		
	4.3	The compressor shall be equipped with a hydraulic pump to power the hydraulic high pressure paint pumps (2) paint tank agitators, (2) carriage orbitals, hydraulic main air cooler and front mounted pointer bar.		
	4.4	A hydraulic cylinder shall be installed on the front bumper mounted guide wheel assembly. The chassis driver will be capable of controlling the guide wheel assembly with raise, lower and float functions.		
	4.5	The hydraulic system shall be equipped with hydraulic reservoir equipped with a sight gauge, magnetic particle separator, interior baffles and "cleanout" fittings. The hydraulic system shall be equipped with a hydraulic cooler of sufficient size for the system. It shall be mounted on top of the air compressor housing to allow for maximum air flow.		

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			Yes/No	Specify Alternative (if responding no)
	4.6	The compressor air compressor shall be equipped with a full gauge package located on the side panel of the compressor. It shall be wired to a remote "kill switch" located in the rear operator's console and from the truck chassis cab.		
	5. COMPRESSED AIR SYSTEM			
	5.1	A finned tube type air cooler assemblies equipped with an integral hydraulic fan shall be installed in the compressed air system from the air compressor to cool the air and enhance moisture separation.		
		The compressor shall be equipped with an air end oil compressor heat exchanger mounted on top of the air compressor. Bidders shall provide photos and literature of the cooler used of the system used.		
	5.2	A coalescing air dryer equipped with stainless steel particle filters shall be mounted under the platform deck. It shall be plumbed into the main airline servicing the bead tank, operating solenoids and blow down air. It shall be equipped with a stainless steel manually adjusted valve located at the bottom of the tank. It shall be approximately 24"H x 18"W. Schmidt Axxiom or approved equal.		
	5.3	Two (2) self-expelling automatic moisture separators will be installed on the bead tank air supply.		
	5.4	One (1) adjustable air oiler shall be installed in the airlines to supply oil to the gun actuating solenoids. The oiler must be readily accessible for servicing.		
	5.5	Air pressure regulators and gauges to control bead tank pressure and spray		

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			Yes/No	Specify Alternative (if responding no)
		gun atomizing pressures shall be mounted in rear operator's control console.		
	5.6	Unit will be equipped with a blow air system plumbed to the gun carts to clean the road surface directly in front of the spray guns. System is equipped with on, off, and auto functions.		
	5.7	All air manifolds used to distribute compressed air will be made of aluminum.		
	5.8	A quick coupler shall be located at the rear of the unit to facilitate the use of air tools.		
	5.9	The air system shall include two (2) weather resistant "boxes" mounted on the outermost section of the gun carts. These boxes shall house all operating solenoids for the paint and bead application devices and glass bead guns. Bidders shall provide photo documentation showing the placement of the boxes. Photos shall show access method to the solenoids in the opened and closed position. Failure to provide photo documentation will result in the bid being non-responsive.		

6. HYDRAULIC SYSTEM

	6.1	The hydraulic system shall consist of two (2) pumps with direct drive off the compressor engine to power the hydraulic high pressure paint pumps (2) paint tank agitators (2), carriage orbitals and front mounted pointer bar.		
	6.2	Two (2) hydraulic steering orbitals with steering wheels will be installed to enable the right and left side rear operators to control the hydraulic cylinders that provide		

STANDARD FEATURES			FOR VENDOR USE ONLY TO INDICATE COMPLIANCE	
			Yes/No	Specify Alternative (if responding no)
		lateral movement of the gun carriage assemblies. The steering wheels shall provide tilt and telescopic functions for the operator to adjust.		
	6.3	A hydraulic cylinder will be installed on the front bumper mounted guidance bar. The striper driver will be capable of electrically controlling this cylinder with raise, lower, and float functions.		
	6.4	Two (2) hydraulic filters mounted in the hydraulic oil return plumbing to the hydraulic reservoir will be provided with valves to facilitate filter replacement. The filer valves shall equipped with lockable shut off valves with lock included.		

7. MARKING MATERIAL SYSTEM

	7.1	Two (2) stainless steel 300 gallon A.S.M. E. certified paint tanks shall be provided one for white and one for yellow paint. They shall be 42 inches in diameter and have a 24 inch lid with four (4) inch inspection port and knock off cap.		
	7.2	All high pressure and low-pressure paint plumbing including all fittings will have stainless steel wetted parts. The low-pressure plumbing will be 2" NPT 304 SST pipe with SST flex couplers and 2" chemical hose. Plumbing to enable bypassing the heat exchangers		
	7.3	NO chemical resistance type hose shall be used in the main paint plumbing. No exceptions.		
	7.4	The high-pressure paint hoses will be 1/2" i.d. teflon lined for compatibility with fast dry water based paints with heated traced lines.		

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			Yes/No	Specify Alternative (if responding no)
	7.5	Speed controls for the hydraulically driven paint tank agitator RPM's shall be located in the rear operators control console, no exceptions.		
	7.6	High pressure stainless steel accumulators shall be installed in the system, on for the white and one for the yellow spray system, two (2) total.		
	7.7	The high-pressure paint hoses will be 1/2" i.d. teflon lined for compatibility with fast dry water based paints.		
	7.8	Two (2) Wilden P4 SST/teflon diaphragm type load mounted on the side of the unit. Load hoses with SST couplers and caps mounted to the pumps. All necessary 2" SST valves and camlock fittings to enable filling the paint tanks. Also removable hoses not to be stored under bed.		
	7.9	A 20 gallon certified A.S.M.E. SST solvent tank (H2O) shall be provided. A discharge port with valve shall be mounted on the edge line side of the truck for accessing H20 for drawing water for other purposes.		
	7.10	Solvent plumbing (H2O) to enable flushing the high pressure paint hoses from the paint manifolds to the spray guns.		
	7.11	NO chemical resistance type hose shall be used in the main paint plumbing.		
	7.12	Two (2) Graco 9 gpm hydraulically driven SST high-pressure paint pumps, one pump for yellow paint, and one pump for white and all related plumbing shall be provided for the airless spray systems with recirculation.		
	7.13	The SST flex couplers shall be installed in the in both the yellow and white main plumbing to allow for chassis flex, total four (4) each, two installed in the white		

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			Yes/No	Specify Alternative (if responding no)
		paint low pressure paint plumbing and two (2) in the yellow.		
	7.14	Two low pressure (2) SST paint filter assemblies, one for the white and one for the yellow paint system shall be provided. They shall include removable SST filters. The paint filters shall be mounted horizontally to allow easy inspection when the covers are removed.		
	7.15	The high pressure airless system shall consist of: The high-pressure paint hose will be teflon lined for compatibility with fast dry water based paint. Two (2) Graco high-pressure filters, one white, and one yellow. Two (2) high-pressure paint accumulators, 1 quart parker, one each for white and yellow paint. Paint high-pressure gauges installed at the high pressure paint filters. All valves color coated handles and all valves shall be half inch Whitty Ball valves stainless steel.		
	7.16	Necessary plumbing and valves at the rear of the unit for one hand gun to be provided. On for white paint and yellow with a three way whitty.		

8. MARKING MATERIAL HEATING SYSTEM

	8.1	A thermostatically controlled paint heating system shall be installed on the unit. System to include: An Axeman Anderson furnace or approved equal with a 12-volt Becket diesel fired burner and glycol circulation pump. Three (4) 8" diameter by 36" long, 2 pass, insulated heat exchangers with stainless steel 3/8" diameter tubes, stainless steel endplates and bonnets-one for yellow paint and one		

STANDARD FEATURES			FOR VENDOR USE ONLY TO INDICATE COMPLIANCE ↓	↓
			Yes/No	Specify Alternative (if responding no)
		for white paint. Controls mounted in the rear control console. Vertical exhaust for the furnace above the equipment deck		
		Heated "gycol" tracer lines with insulation wrap shall be installed on the paint lines to the spray gun.		

9. REFLECTIVE MEDIA SYSTEM

	9.1	One (1) A.S.M.E. certified 42" diameter 4,000lb. capacity reflective media tank with a 24" diameter lid will be mounted to striper deck and complete with three sight glasses.		
	9.2	The tank pressure will be controlled by an individual regulator and gauge mounted in the rear operator's control console.		
		Bead loading shall be done at ground level without having to have operator's on the deck. All plumbing for the bead loading shall be routed inside the bead tank. All controls for loading the bead tank shall be mounted at ground level near the bead loading port.		
	9.3	The unit will be equipped with a Venturi vacuum bead load system. The Venturi will exhaust below the striper deck through a muffler.		
	9.4	One (1) detachable 15' long suction load hose will be provided. The hose will be equipped with a female camlock coupling to enable quick connection to the suction inlet on the bead tank ground level loading port.		
	9.5	Four (4) Graco bead gun number 238338 with variable width fan attachments.		

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	Yes/No	Specify Alternative (if responding no)

10. GUN CARRIAGE LAYOUTS

	10.1	The centerline gun carriage, LOCATED BEHIND THE THE REAR AXLES of the chassis will include: Three (3) Graco Model 206-660 airless spray guns with Graco reverse a clean collars part #XHD001 with tip part # XHD445 (two guns are dedicated yellow, one white). Three (3) linear actuators with dust covers to raise and lower the spray guns from the rear operator's position. One (1) bead manifold. Two (2) bead guns with (as described in 9.5) with variable width fan attachments. No substitutes allowed. Two (2) Blow air nozzles mounted on an adjustable mounting bracket in front and in-line with the spray guns.		
	10.2	Centerline gun carriage layout diagram: LOCATED BEHIND THE REAR AXLES ⊕ ⊕ Two (2) Blow Air Nozzles. ◊ One (1) Graco 206-660 airless paint gun-White ◊ ◊ Two (2) Graco 206-660 airless paint guns-Yellow Two (2) □ □ Two (2) bead guns. Graco # 238338		

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			Yes/No	Specify Alternative (if responding no)
	10.3	Edgeline gun carriage layout diagram: LOCATED BEHIND THE REAR AXLE ⊕ ⊕ Two (2) Blow Air Nozzle. ◊ ◊ Two (2) Graco Model 206-660 paint gun equipped with an electric actuator to raise and lower the gun from the rear operator position. ☐ ☐ Two (2) bead guns with (as described in 9.5) with variable width fan attachments. No substitutes allowed. ALL PAINT GUNS SHALL BE EQUIPPED WITH LINEAR ELECTRIC ACTUATORS TO RAISE AND LOWER GUNS FROM THE REAR OPERATORS POSITION WITH SWITCHES LOCATE IN THE SKIPLINE CONTROL BOX.		
	10.4	All spray gun and bead dispenser actuating solenoids will be mounted in weather resistant, steel boxes equipped with bulkhead fittings enabling the air hoses to exit to the spray guns and bead dispensers. These boxes will be mounted at the outermost edges of the gun carriage assemblies, just below and flush with the endplate for the gun carriage tube assemblies. Photo documentation showing all weather resistant boxes and bulkhead fittings shall be submitted with the bid. Failure to submit photo documentation will result in bid being non- responsive.		
	10.5	Each spray gun, five (5) total, shall be equipped with a 12 volt linear electric actuators to raise and lower the gun from the rear operators position.		
		Both gun carts shall be equipped with auto lift that will raise the carts when the chassis transmission is placed in reverse.		

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11. ELECTRONIC SKIPLINE CONTROLLER				
	11.1	The unit will be equipped with an adjustable electronic skip-line mechanism utilizing solid state components for all active internal functions. System will include a means of inductive arc suppression. Clutches, cams, gears, or devices that require adjustment will be unacceptable.		
	11.2	The electronic skip-line mechanism will utilize a Hall Effect type sensor, sensing from a collar mounted on the chassis drive shaft.		
	11.3	The Skip-line mechanism will consist of one (1) skip-line control box mounted in a weather resistant stainless steel enclosure located at the centerline (left) operator station, one (1) skip-line control box mounted in a weather resistant stainless steel enclosure located at the edgeline (right) operator station and one (1) slave box mounted in the main electrical junction box. Provide photo documentation of slave box and electrical junction box location shall be provided. Failure to provide photo documentation will result in the bid being non-responsive.		
	11.4	The Skip-line control system will be complete with footage counter, digital speedometer, and metric conversion capability.		
	11.5	The skip-line control mechanism must generate the selected repetitive pattern with out utilizing any internal or external moving parts, except operator adjusted toggle switches for establishing pattern size, placement and calibration.		
	11.6	The Skip-line control boxes will have an alphanumeric, liquid crystal display for displaying advisor and warning		

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			Yes/No	Specify Alternative (if responding no)
		messages, as well as stripe and cycle settings.		
	11.7	The Skip-line control system will have as an integral part of the system a footage counter. One for each spray gun position, capable of measuring actual number of feet of line applied. This unit will be capable of registering both footage and speedometer (MPH). In addition to storing and viewing the number of feet through different channels registered by each individual gun, it displays the total used by all guns. This display will be integral to the gun switch boxes.		
	11.8	The two (2) switch boxes installed at the left and right rear operator's stations will be completely interchangeable.		
	11.9	A digital speedometer shall be installed in the truck cab.		
	11.10	A totalizing printer interfaced with the timing system to print footage summaries shall be supplied and mounted in the rear operator's shelter.		
		The skipline by means of stroke counting shall calculate the gallons used and mil thickness of the paint applied by color.		
12. OPERATORS COMMUNICATION SYSTEM				
	12.1	An intercom system will be furnished to provide a means of vocal communications between the driver of the vehicle and the operators of the striping equipment.		
	12.2	This system shall be a David Clark three (3) headset system utilizing one (1) David Clark U-3800 master station mounted in the truck chassis cab, one (1) David Clark U-3801 remote station		

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			Yes/No	Specify Alternative (if responding no)	
		mounted at the left operator station and one (1) David Clark U-3802 remote station mounted at the right operator station and three (3) David Clark ultra-light headsets with single earphones.			
	12.3	A noise filter will be installed in the system to prevent feedback from other electrical components.			

13. ELECTRONIC TRAFFIC WARNING LIGHTS

	13.1	The unit will be equipped with one (1) three by five (3' X 5') foot 25 LED lights, multi-function changeable message board mounted to the rear operator cab with a 12-volt linear actuator to raise and lower the arrowboard. The arrowboard control panel and actuator control switch will be mounted on the rear operator's canopy. The arrow board when placed in the up or down position shall allow for a minimum of 6'8" clearance to prevent "head knocking" when operators are entering or leaving the rear shelter door, steps or rear platform.		
	13.2	The unit will be equipped with two (2) dual oval LED amber strobe lights mounted on the rear of the unit. Four (4) strobes total.		
	13.3	The unit will be equipped with one (1) Whelen Edge LFL LED Patriot Series SL2A amber lightbar. It shall be a low profile type, 54 inches wide,wolid state with external power supply. The light bar shall be to the cab roof with permanent mounting bracket. Provide a "Whelen" Model TACTL1A lighr bar controller installer in the cab in a location approved by the CalTrans at a pre-production meeting. Lightbar shall not interfere with the movement of the arrow board. Lightbar shall have four (4) directional LED flasher lights, two (2)		

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			Yes/No	Specify Alternative (if responding no)
		facing to rear and two (2) facing forward. Provide four (4) mini LED strobe lights two (2) located on each side to provide cross traffic warning.		
	13.4	The switches to actuate the strobes, and light bar will be located in the chassis cab.		
	13.5	Two LED "marker lights" one on the front and one on the rear of each gun cart shall be supplied. The markers shall have flashing and continuous modes of operation.		
14. ELECTRONICS				
	14.1	The unit will be equipped with seven (7) 12-volt LED lights for night work. Two mounted to each gun cart, one mounted to illuminate the operator's control console and two mounted to the front, top corners of the operator's canopy to illuminate the material tanks.		
	14.2	The unit will be equipped with a digital LCD 3/8" minimum character display speedometer with red backlighting mounted in the truck chassis cab.		
	14.3	There will be one (1) main electrical junction box for the material marking system. The electrical junction box shall be mounted on the truck deck at stand up level for easy access at the rear of the tailboard area. It shall include the skipline main control panel, all fuses and other electrical system needed to operate the striper systems. A laminated schematic of the junction electrical system shall be mounted on the door of the box. The main electrical box shall be weather resistant. Bidder to provide photo documentation showing the location of the main junction box mounting, and detailed photos showing		

STANDARD FEATURES			FOR VENDOR USE ONLY TO INDICATE COMPLIANCE ↓	↓
			Yes/No	Specify Alternative (if responding no)
		the inside layout of wiring, skipline main control box, and fuse panel . Failure to provide photo documentation will result in the bid being non-responsive.		
	14.4	The marking material guns and reflective media dispenser electrical solenoids will be enclosed in NEMA boxes located on the gun carriage assemblies. Bidder to provide photo documentation showing the solenoid mounting, and related air hoses mounted in weather protected box. Failure to provide photo documentation will result in the bid being non-responsive.		
	14.5	All pertinent material marking system electrical components will be wired with expandable fusible switches with LED indicator lights.		
	14.6	One (1) 12-volt power receptacle will be furnished in the rear operator's control console.		
	14.7	The temperature controls for the marking material heat system will be digitally controlled temperature push button control indicators.		
	14.8	All electrical switches in the rear operator's control console will be push/pull Allen Bradley brand. No exceptions allowed.		
	14.9	The electrical circuit for the video guidance system electrical camera actuators will be protected with a 15 amp reset able breaker.		
	14.10	A main electrical junction box shall be installed on the rear of the operators enclosure of the platform accessible from ground level for servicing. The junction box shall be NEMA rated. The main electrical box feed power will be equipped with a power disconnect. The disconnect switch will meet OSCH		

STANDARD FEATURES			FOR VENDOR USE ONLY TO INDICATE COMPLIANCE	
			Yes/No	Specify Alternative (if responding no)
		standard for The Control of Hazardous Energy (Lockout/Tag out), Title 29 Code of Federal Regulation Part 1910.147. The main electrical box shall house the timing system, all electrical fused blocks, relays and related electrical systems components for the striping apparatus. All fuse blocks shall be equipped with LED blown fuse indicator lights indicating an electrical failure has occurred. All equipment conductors sizing should follow the NFPA79 Table 12.5.1 for Conductor Ampacity. Bidders to provide photo documentation of electrical junction box location. Failure to provide photo documentation will result in the bid being non-responsive and be rejected. Bidders to provide photo documentation of electrical junction box location and Lock Out Tag Out device. *Failure to provide photo documentation will result in the bid being non-responsive and be rejected*		
	14.11	A back-up alarm will be installed at the rear of the unit.		
	14.12	A back up color camera shall be installed at rear of the unit. There shall be a cab mounted color monitor with a minimum 7" (measured diagonally) mounted in the chassis cab. It shall engage when the chassis transmission is place in reverse. It shall also have a continuous on mode switch.		
	14.13	The unit will be equipped with a HD color video guidance system. The system will consist of one (1) 10" minimum, color, LCD flatscreen monitor, mounted to the windshield in the chassis cab with a pump style suction mount with a programmable video crosshair generator, two (2) color cameras with 18mm auto iris lenses mounted in self-leveling weather resistant enclosures. The camera enclosures shall be equipped with a self-leveling pendulum		

STANDARD FEATURES			FOR VENDOR USE ONLY TO INDICATE COMPLIANCE ↓	↓
			Yes/No	Specify Alternative (if responding no)
		device incorporated in the weather resistant camera enclosures to protect them from cross wind interference and moisture. Systems using external pendulum leveling devices are not acceptable. Two (2) camera mounting brackets will be provided, one on each side of the striper. The brackets will be electronically extendible and controlled from inside the chassis cab. The camera brackets shall be mounted on rubber mounts to reduce vibration. Quick connect electrical outlets will be provided at each camera mounting location to enable the camera to be disconnected for storage. A storage case shall be provided for the flat screen monitor when it is not in use. A video showing how the system works shall be included with the bid.		
	15. ADDITIONAL EQUIPMENT			
	15.1	One (1) 5 gallon water cooler will be mounted to striper deck.		
	15.2	One (1) Go-Jo hand cleaner dispenser with a replaceable container of Go-Jo will be mounted on the striper to facilitate hand cleaning.		
	15.3	Four (4) 10# capacity fire extinguishers will be mounted to the striper.		
	15.4	Four (4) mounted placards shall be installed on the paint unit.		
	15.5	A vinyl cover for the rear console shall be provided.		
	15.6	Aluminum fenders with mud flaps installed over the rear tires and wheels shall be provided.		
	15.7	Conspicuous tape shall be installed along the striping platform.		

STANDARD FEATURES	FOR VENDOR USE ONLY TO INDICATE COMPLIANCE	
	Yes/No	Specify Alternative (if responding no)
16. HIGH OPERATORS VISABLITY (HOV) REAR OPERATORS CAB		
16.1	An insulated air conditioned and heated rear operators shelter shall be supplied on the unit. The operators cab shall be a high visibility design allowing the viewing of the centerline and edgeline spray gun package. The operators shall be located in an environmental cab constructed of sheet metal (no aluminum shall be used) over a metal frame. The side walls of the cab shall be a minimum of 10 gauge steel, the roof shall be a minimum of 12 gauge. The cab shall be equipped with one swing out access door and one sliding door. One sliding door shall be provided at the rear of the cab and an a swing out access door shall be provided at the front or the cab to permit entry to the work platform. The doors shall be equipped locks and be designed utilizing a rotary latch and striker bolt to provide a positive locking action that keeps door closed and provides better weather sealing. Cab Dimensions shall be as follows: Height: Minimum 60" Width: 96" Length: Minimum 54" All windows shall be tinted safety glass with rounded corners for strength and safety. Square corners will not be acceptable for this application. Side windows shall extend to within 14 inches of the ceiling with a center crossbar that does not exceed 3 inches in height. The upper half shall be double tracked slide opening for ventilation. Diagonal windows at each front corner shall extend to within 4 inches of the floor and within 14" or the ceiling and shall be non-opening. The width and angle or the		

STANDARD FEATURES		FOR VENDOR USE ONLY TO INDICATE COMPLIANCE	
		Yes/No	Specify Alternative (if responding no)
		diagonal window shall be that which will provide the operator visibility forward and the extended gun carriage, approximate 45 degrees. The cab supports shall be as narrow as possible yet maintain structural rigidity. The window forward of the left operator shall extend within 4 inches of the floor and 14 inches of the ceiling. The upper half shall be double track slide opening for ventilation. The window in front of the access door shall extend within 6 inches of the floor and within 14 inches of the ceiling and be non-opening. The rear windows behind the operator shall be the same the same height as the upper half or the slide windows and shall be double track slide opening for ventilation. A roof top air conditioning unit with a minimum rating of 25,000-BTU rating. The cab shall also be heated with a minimum 45,000 BTU heat rating. Vinyl-clad foam insulation shall be installed on exposed metal surfaces of the inside of the rear cab shell. Front and rear access doors must be waterproofed and be lined with bulbous weather stripping. The floor the floor of the cab shall be covered with a thick rubber mat for sound suppression. Switch controlled dome lights shall be installed over each operator station.		

17. DELIVERY

	17.1	Delivery of the striping unit by the manufacturer to the purchaser's designated location shall be made within one (1) week after completion of unit and testing prior to shipment. Deadline for final delivery no later than April 15, 2016.		

STANDARD FEATURES		FOR VENDOR USE ONLY TO INDICATE COMPLIANCE ↓ ↓ ↓	
		Yes/No	Specify Alternative (if responding no)
18. SHIPPING			
	18.1	The striper will be either shipped on an appropriate lowboy tractor trailer or driven by a qualified driver from the manufacturer's facility to the purchasers designated destination at the manufacturer's expense. All cost to be paid by Manufacturer	
19. TECHNICAL TRAINING & SPARE PARTS			
	19.1	After delivery of the pavement marking machine to the purchaser, a factory technician with a minimum of 72 months of road marking material application experience will provide three (3) consecutive days of training at the purchaser's specified location. A second training session of three (3) consecutive days will be performed at a time agreed upon by the both the city and the supplier during the first year of operation.	
20. TECHNICAL SUPPORT			
	20.1	The manufacturer shall have a technical service and parts support group available through a toll free 877 number between the hours of 8:00 AM to 5:00 PM Mountain Standard Time.	
	20.2	The manufacturer will maintain an inventory of common marking machine parts used on the specified unit.	
21. QUALITY			

STANDARD FEATURES			FOR VENDOR USE ONLY TO INDICATE COMPLIANCE ↓	↓
			Yes/No	Specify Alternative (if responding no)
	21.1	All hoses, fittings, fasteners, bolts, and miscellaneous hardware used shall be properly designed and engineered for the purpose in which it is being used.		
	21.2	The vehicle shall conform to all the latest Federal and State Safety standards.		
	21.3	Prior to acceptance and final payment, it shall be demonstrated that the vehicle being furnished meets the requirements of the specifications and will undergo an on-site technical review to insure that all specifications have been fully and precisely met without deviation.		
	21.4	All fabrication, assembly and paint techniques will provide a finished unit consistent or exceeding common industry standards.		

22. WARRANTY

	22.1	The striping equipment shall be warranted against defective materials and workmanship for a period of twelve (12) months after the machine is accepted and approved: Provided the machine is properly serviced, maintained, and operated under normal conditions and according to the manufacturer's instructions.		
	22.2	All parts, pieces, and equipment not manufactured by the supplier shall be warranted according to their manufacturer's policies.		
	22.3	No other warranty, express or implied is included		

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			Yes/No	Specify Alternative (if responding no)
	22.4	Manufacturer will not be liable for consequential damages of any kind.		
23. STANDARD MODEL (NO PROTOTYPES)				
	23.1	The unit specified must be a standard production model with a minimum of six (6) of the specified production units in service for a minimum of two (2) years. No prototypes will be allowed.		
24. REFERENCES				
	24.1	A list of at least six (6) users of the specified machine with contact names and telephone numbers will be supplied.		
25. DRAWINGS				
	25.1	Professional quality drawings that will depict the equipment layout will be provided with the bid.		
26. MANUALS				
	26.1	Two (2) service, parts and troubleshooting manuals will be provided with the machine. The manuals will include all systems schematics and specific component literature.		
27. INSPECTION TRIP				

STANDARD FEATURES		FOR VENDOR USE ONLY TO INDICATE COMPLIANCE	
		Yes/No	Specify Alternative (if responding no)
	27.1	Two (2) purchaser's representatives will be commercially flown to the manufacturer's facility for a pre-delivery inspection for two (2) days and two nights at the manufacturer's expense. Hotel accommodations and food shall be provided by the manufacturer for inspection trip.		

28.1 Certificate of Origin

The Contractor shall furnish a Certificate of Origin to RIDOT
The Certificate shall be completed as follows:

- Name of Purchaser: State of RI/Fleet Operations
- Address of Purchaser: One Capitol Hill Providence, RI 02908

Contract Terms and Conditions

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Terms and Conditions

BID STANDARD TERMS AND CONDITIONS

TERMS AND CONDITIONS FOR THIS BID

RIVIP INFO - BID SUBMISSION REQUIREMENTS

It is the Vendor's responsibility to check and download any and all addenda from the RIVIP. This offer may not be considered unless a signed RIVIP generated Bidder Certification Cover Form is attached and the Unit Price column is completed. The signed Certification Cover Form must be attached to the front of the offer. When delivering offers in person to One Capitol Hill, vendors are advised to allow at least one hour additional time for clearance through security checkpoints.

MAILING ADDRESS FOR BID PROPOSALS ISSUED BY THE STATE OF RHODE ISLAND, DIVISION OF PURCHASES

All Bid Proposals must be submitted by mail or hand delivered to:

- State of Rhode Island
- Department of Administrtion
- Division of Purchases, Second floor
- One Capitol Hill
- Providence, RI 02908-5855

DIVESTITURE OF INVESTMENTS IN IRAN REQUIREMENT:

No vendor engaged in investment activities in Iran as described in R.I. Gen. Laws §37-2.5-2(b) may submit a bid proposal to, or renew a contract with, the Division of Purchases. Each vendor submitting a bid proposal or entering into a renewal of a contract is required to certify that the vendor does not appear on the list maintained by the General Treasurer pursuant to R.I. Gen. Laws §37-2.5-3.

DELIVERY PER AGENCY

DELIVERY OF GOODS OR SERVICES AS REQUESTED BY AGENCY.