

Request For Proposal For a Mobile Communications/Command Vehicle for Layton City

1.0 INTRODUCTION

Layton City is issuing this Request for Proposal (RFP) to acquire a mobile communications/command vehicle to be used as a mobile command/communications center for public safety applications.

Layton City reserves the right to reject any or all proposals or parts thereof and to waive minor irregularities in responses. Layton City reserves the right to accept the proposal based on criteria other than price. Special attention will be directed to the qualifications of the respondents when awarding this proposal, including available public safety features, and past history of public safety use for the vehicle.

2.0 PREPARATION AND SUBMISSION OF PROPOSALS

Sealed Proposals must be submitted to Layton City by May 30, 2008 at 5:00 p.m. Three copies of the Proposal must be sealed in one envelope or other container and plainly marked "MOBILE COMMUNICATIONS/COMMAND VEHICLE PROPOSAL." Address to Assistant Police Chief Craig Gibson, Layton Police Department, 429 North Wasatch Drive, Layton, Utah 84041.

3.0 QUESTIONS ABOUT PROPOSAL

Direct communication concerning this RFP to Assistant Police Chief Craig Gibson, Layton City Police Department, 429 North Wasatch Drive, Layton, Utah 84041; (801) 497-8300; fax (801) 336-3402, or e-mail, cgibson@laytoncity.org.

Only specific questions submitted in writing and answered in writing will be binding. Questions may be submitted until May 1, 2008.

4.0 CONTRACTUAL TERMS AND CONDITIONS

Vendor may include items or packages that exceed listed requirements in section 9. Vendor must disclose any existing or potential conflicts of interest. Vendor should disclose any pre-payment discounts that may be available.

Vehicle shall be completely inspected, serviced, properly adjusted and road tested prior to delivery. All fluids and lubricants shall be full, and the vehicle shall be delivered with a full tank of fuel.

The manufacture shall provide a warranty that shall be no less than 36 months, or 36,000 miles. Any cost for the warranty shall be included in the bid price for the vehicle.

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The successful bidder shall supply Layton City with three (3) copies of a service/riders manual as well as a warranty guide. Should warranty work be necessary, the bidder shall have the required parts readily available as to reduce the amount of time the vehicle is out of service. A list of warrant repair facilities located within 100 miles of Layton City shall be listed.

5.0 RFP INSTRUCTIONS

Proposal Responses - Vendors will complete and return RFP Requirements Section 9 with their proposal. Responses must explicitly indicate whether or not the vendor's product meets the requirement by placing an "x" in the Comply or Does Not Comply column. If an alternative/exception to a requirement is necessary, an "x" should be placed in the Comply with Exception column. An explanation of the alternative/exception must be provided in a separate attachment to the Requirements forms, referencing the requirement and providing a concise explanation of the alternative/exception.

Acceptable alternatives are defined as those that the Layton City considers acceptable to meet a mandatory specification. Layton City, at its discretion, will determine if a proposed alternative meets the intent of the original mandatory requirement.

Layton City reserves the right to alter the proposal specification prior to the proposal opening by issuance of an addendum to the respondents. If deemed necessary, sufficient time will be allowed to all respondents to comply with the specifications in the addendum.

Proprietary Proposal Material - Layton City will attempt to protect legitimate trade secrets of any vendor. Examples of such information would be unpublished descriptions of proprietary aspects of the systems proposed. Clearly mark any proprietary information. The vendor may not mark an entire proposal, or the majority of a proposal as proprietary.

Proposal Format - To assist Layton City in proposal evaluation, vendors should provide the following material in their proposals.

- Letter of Transmittal
- Table of Contents
- Table of Illustrations
- Executive Summary

- Section One - Terms and Conditions
- Section Two - Requirements
 - Completed RFP Requirements Section 9
 - Vendor Alternatives/Exceptions to Requirements
- Section Three - Training
- Section Four - Vendor Information
- Section Five - Pricing Information
 - Sample Vendor Contracts/Agreements

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6.0 PRESENT EQUIPMENT

Layton City does not currently have a mobile communications/command vehicle.

7.0 VENDOR INFORMATION AND CONTRACTS

Vendor Information - The vendor shall include a vendor description, including company history and recent financial history. The same information should be provided for parent corporations, and sub-contractors if applicable. The vendor should also include any sample contracts, such as licensing agreements and support agreements if required for purchase of the vehicle. Include vendor information in Proposal Section Four - Vendor Information, and contract information in Proposal Section Five – Pricing Information.

References - The vendor shall provide a list of at least three (3) references of agencies that have mobile communication/command vehicles built by the vendor. Include the name, title, work location, and phone number of a contact at each reference site. Include in Proposal Section Four - Vendor Information.

8.0 TRAINING

The vendor shall supply an instructor to conduct a 8-hour familiarization and training course on the vehicle.

Training must be conducted on-site at Layton City or any other location as deemed suitable by Layton City.

The vendor or manufacturer should absorb training costs for the familiarization course.

9.0 TECHNICAL SPECIFICATIONS AND REQUIREMENTS

This section lists the requirements for a Mobile Communication/Command Vehicle.

9.1 General Requirements

	Requirement	Comply	Does Not Comply	Comply With Exception
9.1.1	The vehicle will be built on a 40' conventional cab/chassis configuration with four sections.			
9.1.2	The forward area of the vehicle (cab) will be dedicated for transport with DOT compliant seating for two personnel with appropriate communications installed.			
9.1.3	The second area of the vehicle will be the dispatch/operations/area. This area will have a 12" slide-out room, street-side for maximum space. There will be four workstation/dispatch positions built within the street-side slide-out and two additional workstations on the curbside, for a total of six.			
9.1.4	There will be a central communications rack that will contain interoperable communications and other City specified equipment.			
9.1.5	The third area of the vehicle will contain a bathroom and communications room that will have a pocket door and have access to the rear of the communications, satellite, video and LAN rack.			
9.1.6	The rear of the vehicle will have an 8" slide-out room with two additional workstations and a conference table and be capable of being closed off from the rest of the vehicle with a pocket door.			

9.2 Engine

	Requirement	Comply	Does Not Comply	Comply With Exception
9.2.1	The engine shall be a Cummins 8.3L ISC@ 2000 RPM 1000LB/FT @ 1400 RPM PAC-brake exhaust brake.			
9.2.2	MBE fuel and full flow oil filters. Engine-mounted oil check and fill.			
9.2.3	One piece valve cover			
9.2.4	Side of hood air intake with firewall with mounted Donaldson air cleaner.			
9.2.5	Electronic engine integral shutdown protection system.			
9.2.6	Pac-brake exhaust brake			
9.2.7	Phillips-Temro 1500 watt/115 volt block heater. (chrome engine heater receptacle mounted under LH door.) Air intake warmer.			
9.2.8	Fuel line primer pump.			
9.2.9	Delco 12-volt 41 MT/OCP 450 series starter with thermal protection.			
9.2.10	1000 square inch radiator. Fleetguard coolant filter.			
9.2.11	330 hp (kw)			
9.2.12	2000 rpm			
9.2.13	700 low idle rpm			
9.2.14	960 rpm operating range			
9.2.15	Altitude capability 10,000 ft, 3050 m			
9.2.16	Peak torque-lb-ft (N-m) 1000			
9.2.17	1400 peak torque rpm			

9.3 Transmission

	Requirement	Comply	Does Not Comply	Comply With Exception
9.3.1	Allison 3200 TRV automatic with PTO provision.			
9.3.2	WTEC calibration – 6 speed RDS/TRV (package 113)			
9.3.3	Push-button, dash mounted electronic shift control			
9.3.4	Frame mounted water to oil transmission cooler.			

9.4 Brakes

	Requirement	Comply	Does Not Comply	Comply With Exception
9.4.1	Air brake package			
9.4.2	Front: Meritor CAM 15 x 4 Q-plus cam Rear: Meritor CAM 16.5 x 7 Q-plus			
9.4.3	Air dryer Bendix AD-9 w/heater.			
9.4.4	Quick disconnect fitting with hose for tire inflation kit mounted to batter box with secondary air tank and air compressor sufficient to keep tanks full at all times.			
9.4.5	Meritor automatic front and rear slack adjusters.			

9.5 ABS System

	Requirement	Comply	Does Not Comply	Comply With Exception
9.5.1	WABCO 4S/4M ABS			
9.5.2	Relay valve with 5-8 psi crack pressure.			
9.5.3	Two valve parking brake system with warning indicator.			

9.6 Steering

	Requirement	Comply	Does Not Comply	Comply With Exception
9.6.1	TRW THP-60 power steering			
9.6.2	Power steering pump			
9.6.3	Adjustable tilt and telescoping steering column.			

9.7 Electrical System

	Requirement	Comply	Does Not Comply	Comply With Exception
9.7.1	Alternator: Leece-Neville 300 amp 4940 pad mount			
9.7.2	Starting: Mitsubishi 12-volt 105P55 type			
9.7.3	Batteries: four (4) alliance 1031 group 31 12-volt MF 3040 CCA threaded slot w/battery post for jump-start. Additional jump posts separate from batteries. Battery cut-off switch located in cab outboard of driver's seat.			
9.7.4	Two (2) built-in Kussmaul electric battery chargers with filters for shore power hookup or operate from generator.			

9.8 Fuel Tank

	Requirement	Comply		Does Not Comply		Comply With Exception
9.8.1	Dual 50 gallon polished aluminum tanks.					
9.8.2	Equiflow fuel system (dual suction & return lines) with no crossover.					
9.8.3	Alliance fuel filter/water separator with heated bowl.					

	Requirement	Comply		Does Not Comply		Comply With Exception
9.9.1	2008 Chassis with 310 in. wheelbase equivalent to Freightliner M-2 business class, International 7300 etc.					
9.9.2	120 “ conventional cab					
9.9.3	Front tow hooks-frame mounted.					
9.9.4	Aerodynamic bumper					

9.9 Chassis Specifications

9.10 Vehicle Weight Rating

	Requirement	Comply		Does Not Comply		Comply With Exception
9.10.1	Front GAWR, 12,000 lbs					
9.10.2	Rear GAWR , 23,000 lbs					
9.10.3	Gross vehicle weight rating (GVWR) 35,000 lbs FET exempt.					

9.11 Frame Rail

	Requirement	Comply	Does Not Comply	Comply With Exception
911.1	7/16" x 3-9/16" x 11-1/8" steel frame, specify RBM. 1/4" inner frame reinforcement			

9.12 Front Axle

	Requirement	Comply	Does Not Comply	Comply With Exception
9.12.1	Meritor (Rockwell) AF 12-3 12,000 lbs capacity			

9.13 Rear Axle

	Requirement	Comply	Does Not Comply	Comply With Exception
9.13.1	Meritor (Rockwell) RS-23-145 Quiet Ride 23,000 lbs capacity.			
9.13.2	4.88 drive ratio w/diff. Tractec lock differential.			
9.13.3	Driver controlled differential			
9.13.4	Airliner 23,000lb rear suspension			
9.13.5	Airliner high-position ride height			
9.13.6	Manual dump valve for air suspension (auto-fill)			
9.13.7	Air suspension leveling valve			
9.13.8	Meritor automatic rear slack adjusters			
9.13.9	Mudflaps with anti-sail brackets on rear axle			

9.14 Suspension

	Requirement	Comply	Does Not Comply	Comply With Exception
9.14.1	Front: 12,000 # Taperleaf			
9.14.2	Rear: 23,000 # Airliner			
9.14.3	Suspension dump valve and auto re-fill			

9.15 Tires

	Requirement	Comply	Does Not Comply	Comply With Exception
9.15.1	275/80R 22.5 Michelins, all weather.			
9.15.2	Front XZE Steer tires LR"G" (14 ply)			
9.15.3	Rear XZE Drive tires LR"G" (14 ply)			

9.16 Wheels

	Requirement	Comply	Does Not Comply	Comply With Exception
9.16.1	22.5x8 front and rear (dual rear)			
9.16.2	Polished aluminum HP 10 disc wheels (front and outer rear) with matching nut covers.			

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9.17 Trailer Hitch and Tow Points

	Requirement	Comply		Does Not Comply		Comply With Exception
9.17.1	Class 5 receiver rated at 10,000 lbs					
9.1472	1000lb maximum vertical tongue weight					

9.18 Cab Equipment and Instrumentation

	Requirement	Comply	Does Not Comply	Comply With Exception
9.18.1	Dual high-back, air suspension seats with dual armrests and 3 point fixed D-ring seatbelts.			
9.18.2	Low air pressure light and audible alarm			
9.18.3	Single brake application air gauge			
9.18.4	Cruise control			
9.18.5	Electric fuel gauge			
9.18.6	Engine and trip meters (hours and odometer)			
9.18.7	Electric engine oil pressure gauge			
9.18.8	Electronic tachometer, 3000 RPM			
9.18.9	Digital voltage display			
9.18.10	Transmission oil pressure gauge			
9.18.11	Diagnostic interface connector, 9-pin, located below the dash.			
9.18.12	Programmable RPM control			
9.18.13	All aluminum cab structure for driver and passenger			
9.18.14	Forward roof-mounted console w/locking cabinet doors left and right.			
9.18.15	Dual axis mirrors.			
9.18.16	Tinted dual power windows			
9.18.17	18" black leather steering wheel, air operated, tilt and telescopic.			
9.18.18	Standard bumper			
9.18.19	Air horn-single 11" Grover round, mounted under left hand cab deck.			
9.18.20	Brake application			
9.18.21	Power door locks			
9.18.22	1-piece molded fiberglass hood and fenders.			
9.18.23	Single round halogen headlights.			
9.18.24	Heater and defroster w/air conditioner and re-circulation switch.			
9.18.25	Cup holders right and left			
9.18.26	Driver and passenger sun visors. (adjustable)			
9.18.27	Monitor for rear-vision camera (backup camera)			
9.18.28	AM/FM with CD, 2 speakers			
9.18.29	Automotive style heating and AC system			

9.19 Body Specifications

	Requirement	Comply	Does Not Comply	Comply With Exception
9.19.1	Overall length 40' including ladder			
9.19.2	Overall width, slides in: 8' 6"			
9.19.3	Overall width, slides out: 14' 0"			
9.19.4	13'2" overall height (with satellite antennas installed)			
9.19.5	Headroom 80"			
9.19.6	Corrosion/rust resistant body			
9.19.7	Body shall be 5/8" FRP composite construction.			
9.19.8	Body construction shall maximize smooth surfaces and stainless steel corners.			
9.19.9	Structural members shall be powder-coated 2x2 steel frames built on chassis.			
9.19.10	Roof and sidewalls shall have a minimum R8 insulation factor.			
9.19.11	Floor shall be a super sandwich design with integral galvanized vapor barrier. Covered with Lonseal Loncoin II non-skid commercial grade PVC flooring.			
9.19.12	Powder-coated compartment frames with #304 stainless steel doors with #8 finish.			
9.19.13	All joints and seams shall be sealed and weatherproofed.			
9.19.14	Drip moldings shall be provided above entry doors where required.			
9.19.15	Walls: Interior finish to be custom built oak finish with laminate counter tops. Sound absorbing material to be installed on all walls. (Color to be determined by Layton City)			
9.19.16	Roof: Roof to be one-piece 5/8" FRP composite construction system with custom engineered aluminum walkways and antenna channels. Platform shall be designed and built in accordance with Layton City specified communications package.			
9.19.17	Entry Door: Curbside entry door to be located mid-ship and include combination deadbolt lock. Step will be covered with non-skid material. Heavy-duty assist handle shall be mounted on the exterior of the unit next to the entrance door.			

9.19 Body Specifications Con't

9.19.18	Compartment Doors: Exterior storage compartments shall be top-hinged gas piston stays and have interior lights. All compartment doors to be keyed alike. Exterior of door is 304-grade stainless steel with #8 finish. All compartments are to be water tight and constructed of single-unit design, powder coated steel.					
9.19.19	Exterior Surface: FRP fiberglass skin with superior finish and graphics as directed by Layton City					
9.19.20	Undercoating: Factory installed, full chassis					
9.19.21	Mirrors: remote operated, heated, bus style					
9.19.22	Insulation: Factory installed arctic insulation package, approx. 2" thick polystyrene foam.					
9.19.23	Roof Top: In addition to 9.19.6 unit will have diamond plate platform running the full length of the roof, both sides, for antenna access. The platform will be designed to work with requested components, and grounded to the chassis. Top of the platform is to be hinged with cable-management system underneath and all roof top component wiring to be placed in cable management.					
9.19.24	Exterior color to be white. From top of compartment doors down, finish will be polished stainless steel.					
9.19.25	Lighted entrance steps.					

9.20 Drivers console

	Requirement	Comply	Does Not Comply	Comply With Exception
9.20.1	Will accommodate controls for emergency equipment, including siren and PA.			
9.20.2	Installation of provided radio			
9.20.3	Transition from the cab to the body shall be open to allow personnel to walk from cab into the body area.			

9.21 Slide-out rooms

	Requirement	Comply	Does Not Comply	Comply With Exception
9.21.1	Two slide-out rooms. Specify electric or hydraulic.			
9.21.2	The street side area slide-out will be a minimum of 12' long.			
9.21.3	The rear slide-out will be 8' long.			
9.21.4	The slide-outs will extend to a minimum of 30".			
9.21.5	Each slide-out will include an awning cover to prevent debris, ice, or other material from obstructing mechanism.			
9.21.6	Operating switch for forward slide-out will be located in the main switch panel located in master switch panel adjacent to entry door.			
9.21.7	Operating switch for the rear slide-out will be located in the rear area.			
9.21.8	Slide-out rooms will include slide-trak cable management system to protect all electrical, Cat-6, and co-axial cable feeds to workstations.			

9.22 Floor plan

	Requirement	Comply	Does Not Comply	Comply With Exception
9.22.1	Three separate areas for operations.			
9.22.2	The forward area will include four workstations.			
9.22.3	The curbside wall will contain a printer station and kitchenette.			
9.22.4	The rear area will contain four workstations			
9.22.5	A conference area, the location and configuration to be determined at final design.			
9.22.6	The center of the vehicle will contain a bathroom and the central electronics closet.			

9.23 Leveling system

	Requirement	Comply	Does Not Comply	Comply With Exception
9.23.1	A 4-point balanced, automatic, hydraulic system with illuminated lights on the leveling jacks control panel adjacent to the driver's seat will be provided.			

9.24 Electrical (operational)

	Requirement	Comply	Does Not Comply	Comply With Exception
9.24.1	Designed to work with onboard quiet 12-KW diesel generator.			
9.24.2	Electrical suppression system to prevent surge from commercial or on-board power sources: Rack-mounted UPS device capable of protecting all rack-mounted equipment. Grounding bar located in equipment closet for future components. Grounding rod connected to chassis.			
9.24.3	Generator power will be routed through converter/chargers for distribution throughout the unit to give main engine systems and body systems optimum electrical performance.			
9.24.4	Unit will be equipped with (2) two 50' lengths of #6 wire configured to work with pre-installed outlets to provide up to 50' of shore power capabilities. Cords to be connected to outlets by way of twist-lock plug ends.			
9.24.5	Interior wires shall be copper, have thermoplastic insulation and shall be a minimum of 12 AWG, unless the intended load indicates another gauge. Wires of sufficient gauge to handle the intended load for the branch circuit, plus a safety margin of 20% shall be provided.			

	Requirement	Comply	Does Not Comply
9.24.6	Blank conduit to allow for further electrical expansion.		
9.24.7	Storage compartment will have 110 outlets installed at each shelf.		
9.24.8	110 outlet for shore power installed on exterior adjacent to 220 shore input.		
9.24.9	Dual mode interior lighting to accommodate night vision.		
9.24.10	Computer, video, and phone to each work-station.		
9.24.11	Exterior AC power outlets at each corner.		
9.24.12	Exterior phone jacks to provide connectivity between inside phone systems and additional command vehicles. Located on both sides of vehicle.		
9.24.13	LED Clocks in command area and communications area.		

9.24 Electrical (con't.)

	Requirement	Comply	Does Not Comply	Comply With Exception
9.24.15	Two (2) quad GFCI outlets shall be installed in an external compartment (one on each side) of the vehicle. All 120-volt outlets shall have isolated grounds.			
9.24.16	Four (4) maintenance-free, deep cycle marine batteries on the slide-out tray that operate the DC components. Two (2) additional batteries to be used for the chassis operations. Batteries to be mounted on a non-conductive tray that allows ease of serviceability and for containment of any cell overflow or spillage and ability to be secured during transport.			
9.24.17	One (1) 12-KW diesel powered, water-cooled generators. Specify brand, hardwired to vehicle electrical system. Remote fuel shutoff at generator.			
9.24.18	Shore power input fittings and cords			
9.24.19	Automatic transfer switches			
9.24.20	Commercial circuit breaker panels			
9.24.21	The 240 VAC 60 Hz electrical system shall be powered from the on-board generators or two (2) shore power input cords.			
9.24.22	The generators are to be fueled from the chassis fuel tanks. The fuel pick-up tube for the generators is raised above the chassis engine fuel pick-up tube.			
9.24.23	The 240 VAC 60 Hz electric power produced by the generators is to be wired to an automatic power transfer switch located below the circuit breaker panels. The transfer switch senses available power, generator or shore, and aligns that power to the circuit breaker panels. Generator power has priority.			
9.24.24	Two (2) shore power input weatherproof fittings are to be located street side. The fittings are to be rated at 240 VAC 50 AMP of twist lock design. Two (2) 50' #6 AWG SO cords are to be provided and shipped with the unit.			
9.24.25	Power is to be wired from the transfer switches to the bus bars of the circuit breaker panels.			
9.24.26	Automatic bus transfer switches to enable 240 VAC power to be routed to the electrical distribution panel from the unit's generators or commercial electrical main.			

9.25 Interior Wiring Specifications

	Requirement	Comply		Does Not Comply		Comply With Exception
9.25.1	Unit will contain easily accessible cable management system (raceways) a full 360 degrees. All wiring shall be routed to permit easy access into raceways and conduit to facilitate maintenance and troubleshooting. Cable shall be integrated to prevent EMI or cross talk. All AC and DC wiring shall be integrated to prevent AC induction in the DC distribution.					
9.25.2	All wiring, to include AC, DC, and coaxial, shall be run so that there are no splices between devices and be labeled on device and source end and be documented on the master wiring diagram that will be provided to Layton City.					
9.25.3	All wiring, to include connectors, terminal, and lug devices, shall be in accordance with NEC and meet all appropriate, applicable electrical codes and recognized industry standards. All AC and DC electrical devices shall be minimum specification to Underwriters Laboratory (UL) recommendations.					
9.25.4	Where wire passes through sheet metal, bulkheads, and structural supports, plastic grommets shall be used to protect wiring and wiring looms.					
9.25.5	All wiring shall be supported with trimmed nylon ties or industry standard equivalent.					

9.26 Safety

	Requirement	Comply	Does Not Comply	Comply With Exception
9.26.1	Front cab area can be isolated.			
9.26.2	Intect Video systems, auto activated, closed circuit back-up camera. Six inch LCD flat screen monitor installed in the cab with easy reach and view of driver's seating position.			
9.26.3	Carbon monoxide detector/alarm			
9.26.4	Smoke detector/alarm			
9.26.5	Back-up alarm with shut off.			
9.26.6	Three (3) surface mounted fire extinguishers. Mounted in accordance with industry standards, front center, and rear.			
9.26.7	Hitch area assistance lighting, 12V and 110 ac.			

9.27 Heating/Cooling/Ventilation

	Requirement	Comply	Does Not Comply	Comply With Exception
9.27.1	Two (2) 50 amp, 240-volt distribution panels			
9.27.2	Electronic battery disconnect			
9.27.3	Electric floor heaters			
9.27.4	Three (3) 13,500 btu roof mounted air conditioners.			
9.27.5	One (1) 6-gal. Fast recovery 110 V electric water heater			

9.28 Fresh, Gray, and Black water holding tanks

	Requirement	Comply	Does Not Comply	Comply With Exception
9.28.1	50 gal. Fresh water w/electronic level monitor			
9.28.2	30 gal. Gray water w/electronic level monitor			
9.28.3	30 gal. Black water w/electronic level monitor			
9.28.4	Underbody fresh water, gray water, and black water tanks to be heated and all plumbing insulated and wrapped with heat tape.			
9.28.5	2.8 GPM water pump with accumulator tank.			

9.29 Ladder

	Requirement	Comply		Does Not Comply	Comply With Exception
9.29.1	Heavy-duty aluminum ladder mounted from the rear bumper to the top of roof. A local illuminating light shall be installed. Ladder will interact with roof-mounted platform and have anti-skid stepping.				

9.30 Windows

	Requirement	Comply		Does Not Comply	Comply With Exception
9.30.1	Windows shall be covered in white, one-way shrink-wrap with exterior visibility.				
9.30.2	The entry door will have a tinted window.				
9.30.3	Window blinds to allow both privacy and natural light as necessary.				

9.31 Awning

	Requirement	Comply		Does Not Comply	Comply With Exception
9.31.1	20' electric awning to be installed on the curbside of the vehicle covering the entrance area.				
9.31.2	Screen room. Removable screening to be full length and width of awning. (Price as option)				

9.32 Convenience

	Requirement	Comply	Does Not Comply	Comply With Exception
9.32.1	Microwave oven			
9.32.2	Coffee maker (under counter)			
9.32.3	Refrigerator, 4.3 cubic feet, AC			
9.32.4	Two (2) atomic clocks, forward and rear.			
9.32.5	Bathroom with hand-washing sink			
9.32.6	Exterior vertical handrail.			

9.33 Workstation Specifications

	Requirement	Comply	Does Not Comply	Comply With Exception
9.33.1	Builder shall provide a WS module; defined as two (2) RJ-45 data, one for data and one for phone, and one (1) 12V accessory tap at each workstation. 120-VAC will be accessible at all workstations.			
9.33.2	Builder will provide eight (8) workstations, location to be determined by Layton City in the final design.			
9.33.3	Workstations will be configured with file cabinets and printer station as specified on final plan.			

9.34 Central Electronics Closet

	Requirement	Comply	Does Not Comply	Comply With Exception
9.34.1	The closet will be constructed to provide access, control, and serviceability of all satellite, telecommunications, and audio-visual equipment relating to the vehicle.			
9.34.2	The closet shall have a pocket door installed to provide a secure environment for equipment. The closet will be the focal point of the rack-mounted equipment needed for the on-board focal area network, communications, and audio-visual modules.			
9.34.3	The central communications equipment rack will be 74" high, 19" wide, 20" deep, 40U (74") and shall include specified transceivers and any other Layton Police supplied equipment.			
9.34.4	Builder will supply and install one (1) rack-mounted 3000-Watt uninterruptible power system, directly responsible for the LAN, satellite system, and audio-visual modules and the associated electronic equipment.			
9.34.5	Builder will install rack-mounted circulation fans into communications module area to support equipment loads from all equipment in location to include LAN and telephone.			

9.35 Audio-Video System

	Requirement	Comply	Does Not Comply	Comply With Exception
9.35.1	The AV module shall utilize a method of configuration to allow all available AV inputs and outputs to be routed through a smart AV router for viewing at any monitor device.			
9.35.2	Builder shall provide integration for all the AV components as listed unless stated otherwise. These requirements provide a seamless, manageable configuration to be designed to provide the most benefit for command, control and communications.			
9.35.3	Builder shall supply, install, and integrate (1) one 36" wall mounted flat panel LCD TV color monitor to be located in the command room as determined by final floor plan.			
9.35.4	Builder shall supply, install, and integrate (2) two 20" wall mount color LCD TV monitors in the communications/operations area.			
9.35.5	Builder shall supply, install, and integrate (1) VHS VCR and (1) progressive scan DVD player mounted in the AV module of the central electronics room.			
9.35.6	Builder shall supply, install, and integrate (1) fully automatic, mobile digital satellite system with LNB.			
9.35.7	Builder shall supply (2) Hughes SD-HBH, or equivalent DSS receivers. Receivers shall be mounted with the DVD/VCR in the forward rack and configured with the AV module.			
9.35.8	Builder shall provide for integration of rack-mounted modular AV routing switcher. The matrix of switch shall be 16x16 and have (8) eight VGA connections.			

9.36 Camera and Mast

	Requirement	Comply	Does Not Comply	Comply With Exception
9.36.1	Unit shall be equipped with a Willburt 30' heavy duty telescoping mast and include Nycoil conical conduit. Mast shall be equipped with a pneumatic system for raising and lowering. Mast shall include composite video cable connected between camera and video interface device (rack mounted). A Pelco KBD 300A pan and tilt controller joystick to be provided in the conference room area for control of all camera functions.			
9.36.2	The masthead shall have a Pelco Esprit Series, high resolution and weatherproof camera with wiper function that is enabled to pan a minimum of 310 degrees and tilt from 0 to 80 degrees.			
9.36.3	Mast to accommodate antennas for the primary radio system.			

9.37 Interior features

	Requirement	Comply	Does Not Comply	Comply With Exception
9.37.1	Custom built cabinet's overhead of all workstations. Cabinet facings will be finished in "whiteboard" material.			
9.37.2	The interior and exterior finish of the cabinets shall match the interior trim. All cabinets will be glued and screwed. Horizontally hinged overhead cabinet doors will be held open with lift/support mechanism. All drawers utilize heavy-duty slides. Counter tops are hi-pressure laminate with beveled top edge.			
9.37.3	Dual mode Fluorescent lights, red and white will run from front to rear of the unit in the middle of the ceiling to accommodate night operations.			

9.37 Interior features con't

	Requirement	Comply	Does Not Comply	Comply With Exception
9.37.4	Incandescent "aircraft style" lighting will be installed in ceiling of slide-out rooms.			
9.37.5	All areas of the unit will have adequate 12-volt DC lights to provide satisfactory lighting when the vehicle has no AC available.			
9.37.6	Each workstation shall have CAT-5E cabling running to equipment closet and CAT-5E phone wiring to PBX-KSU unit.			

9.38 Exterior features

	Requirement	Comply	Does Not Comply	Comply With Exception
9.38.1	Unit shall include Layton Public Safety graphics on sides, front and rear.			
9.38.2	Four (4) additional 120 VAC, 60 Hz GFI outlets (surface mount 1 on each side), will be installed to support additional equipment.			
9.38.3	Unit shall include electric awning as specified with quartz lighting for night operations. Lighting will be surface mounted quartz halogen. Three (3) surface mount quartz lights per side.			
9.38.4	The unit will be equipped with four (4) 300-watt quartz-halogen extension lights (one on each corner) for scene lighting.			

9.39 Warranties

	Requirement	Comply	Does Not Comply	Comply With Exception
9.39.1	Chassis: 3 years, 150,000 miles			
9.39.2	Engine: 3 years, 150,000 miles			
9.39.3	Body: 3 year or 36,000 miles			
9.39.4	Roof: 3 years			
9.39.5	Appliances: 1 year			

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9.39.6	Generators: 3 years				
9.39.7	Communications components: Manufacturers standard.				

9.39.8	Workmanship by builder: 1 year parts and labor, includes custom interior due to normal wear, installation of EIA racks and wiring.				
9.39.9	All installed components such as, but not limited to, laptops, TV's, printers, monitors and cameras will carry the standard manufacturers warranty provided.				

9.40 Training

	Requirement	Comply	Does Not Comply	Comply With Exception
9.40.1	The contractor shall supply 8 hours of training/indoctrination to be performed at Layton City.			

9.41 Documentation

	Requirement	Comply	Does Not Comply	Comply With Exception
9.41.1	Builder shall provide three (3) complete sets of vehicle documentation; to include all wiring schematics, custom configuration layouts, as well as all other related documentation in binder format.			

9.42 Communication Systems; Phone, Data, and Mobile Radios

	Requirement	Comply	Does Not Comply	Comply With Exception
9.42.1	Builder will install and integrate phone, data, and mobile radio equipment provided by Layton City as described in attachment "A".			
9.42.2	Builder will be responsible for the professional installation of all communications devices, in accordance with manufacturer's installation guidelines as well as following guidance from NFPA, NEC, DOT and all other code or recommendations associated with public safety communications.			
9.42.3	Layton City and the builder will coordinate the location of the communications systems within the vehicle, which will be described in the final floor plan.			

9.43 Emergency warning devices and lighting

	Requirement	Comply	Does Not Comply	Comply With Exception
9.43.1	Emergency lighting shall be controlled through Whelen (or equivalent) power supplies and switch network.			
9.43.2	Fourteen (14) Whelen series 600-LED (or equivalent) flashers; (2) front, (5) each side, and (2) rear will be installed and integrated into Whelen switches.			
9.43.3	12 Volt DC Whelen or equivalent super strobe S360D series with branch guard mount command post green strobe to be mounted on front roof.			
9.43.4	Switches for emergency lights will be mounted in the driver's compartment power control center.			
9.43.5	Whelen remote handheld siren with (9) relays for switching and AS315 series siren speaker, or equivalent.			

Attachment "A"

Product	Description	Qty
CISCO02811-CCME/K9	2811 Voice Bundle w/PVDM2-16, FL-CCME-36, SP Serv, 64F/256D	1
S28NUAIS	Cisco 2800 SPSK9-SPSK0 FEAT SET FACTORY UPG FOR BUNDLES	1
NME-16ES-1G-P	EtherSwitch Service Mod 16 10/100T POE+ GE, IP Base	1
HWIC-3G-CDMA-SHWIC-AP-G-A	3G WWAN HWIC-EVDO Rev A/Rel 0/1xRTT-800/1900 MHz	1
HWIC-AP-G-A	AP HWIC w 2.4 Ghz Radio for 802.11 b/g Americas	1
VIC2-2FXO	Two-port Voice Interface Card – FXO (Universal)	1
3G-AE015-R	Single Unit antenna Extension Base (15 foot cable included)	1
AIM-CUE	Unity Express AIM-price includes 12 mailbox	1
SCUE-AIM-3.0	Cisco Unity Express base release 3.0	1
SCUE-LIC-12CME	Unity Express License 12 Voice Mailbox-Auto Attendant-CCME	1
CUE-LANG-ENU	Cisco Unity Express-North American English	1
CUE-LANG-ENU	Cisco Unity Express-North American English	1
PWR-2811-AC-IP	Cisco 2811 AC/IP power supply	1
CAB-AC	Power cord, 110v	1
FL-CCME-36	Cisco CallManager Express Feature License for up to 36 users	1
ROUTER-SDM	Device Manager for routers	1
PVDM2-16	16-Channel Packet Voice/Fax DSP Module	1
MEM2800-256D-INC	256MB DDR DRAM Memory factory default for the Cisco 2800	1
MEM2800-64CF-INC	64MB CF default for Cisco 2800 Series	1
CON-SNT-C2811CCm	SNT 8X5XNBD + SAU 2811 Voice Bundle	1
CP-7960G-CH1	Cisco IP phone – model 7960G	7
649028	Cisco Aironet 1310 Outdoor Access Point/Bridge	2
218091	Cisco network adapter antenna	1
FAU200	FAU200-Fixed Phone	1
M21URM9PW1 N XTL 2500 MOBILE 700 MHZ	XTL2500 700 MHZ radio (35 watts) SmartZone & Antenna included	6
M21KTM9PW1 N XTL2500	VHF Radio w/a.)Astro Sepctra A&110 watt 255 channel b.) Analog operation Astro ready c.) Conventional operation d.) Additional two year warranty e.) 3dB gain antenna f.)Programming software	1
M21QTM9PW1 N XTL2500	UHF Radio w/a.)Astro Sepctra A&110 watt 255 channel b.) Analog operation Astro ready c.) Conventional operation d.) Additional two year warranty e.) 3dB gain antenna f.)Programming software	1
M80AMN0KV5K	Micom 2E Single Side Band Mobile Options: A. Noise blanker B. PC Programming C. RSS programming software D. 150 watt antenna E. Serice manual	1 1 1 1 1
500.9260	ICRI, 5 radio I/O ports + 1 handset I/O port + 1 telephone I/O port, supplied with padded carrying case. TWO TALK GROUP SELECTION FOR PORTS	1
180.0450	ICRI to 8 "AA" battery pack adaptor cable (requires 160.3611)	1
160.3611	8 "AA" Batter Pack (requires 180.0450)	1

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179.0730	DC input cable, dual mode (alligator clips & vehicle cigarette lighter plug)	1
320.0431	115V AC adaptor (in-line switching power supply)	1
990.0602	Waterproof case (Pelican™ 1550) with fitted foam insert and status board	1
Product	Description	Qty.
280.0125	Handset w/noise-canceling microphone, P-T-T bar, and coiled cord	1
179.6213	250' Universal extension cable w/reel and radio "holder". Slip ring version	1
500.9311	Audio buffer delay for all radio ports. Used for truck radio systems	1
179.0800	UCRU-to-ICRI link port (RJ-45 bulkhead connector) (includes link cable P/N 179.0692)	1
500.9292	Unit ID broadcast (agency specific, digitized message)	1
179.0693	Direct connection cable to generic, 2.5 mm plug cellular telephone jack for use with RJ series port P/N 179.0801	1
179.0801	Direct connection modular telephone handset jack (RJ Series) (for cell phone connection use cable P/N 1793.0693)	1
179.0670	EMH/GMH/LMH series interface cable	1
179.0630	MT-2000, JT-1000, HT-1000, MTS-2000, MTX6000, MTX838, MTX8000, XTS-3000, XTS5000, and EF Johnson 5100 interface cable	1
179.0635	MCS-2000 interface cable ("Y" cable/box so normal function of radio is not affected by ICRI link)	1
179.0933	XTL2500 & XTL5000 direct interface cable w/ignition sense & speaker leads	1
5961-220000	JPS ACU-1000	1
5961-818000	JPS DSP-2 Module	1
Hardware	JPS Radio Interface Cables	1
GSP-1600	GlobalStar GPS-1600 Satellite Phone	2
PL-1200-BK	Pelican Case; 1200; Black	2
GSP-CLA-1600	GSP 1600 Cigarette Lighter Adapter	2
GSP-BAT	FSP 1600 Battery	2
GSP-1210	GlobalStar Travel Charger	2
Gateway™ M685-E	Gateway Laptops	6
Q3950A#ABA	HP Color LaserJet 2840 AIO	1

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