



## AGENDA

### LOS ANGELES COUNTY LOCAL CAL-ID RAN BOARD MEETING

Thursday, July 27, 2023  
2:00 p.m.

Kenneth Hahn Hall of Administration  
500 West Temple Street, Room 830  
Los Angeles, California 90012

- I. CONVENE
- II. REVIEW/APPROVE MINUTES OF THE MAY 25, 2023, RAN BOARD MEETING. (Attached)
- III. TECHNICAL SUBCOMMITTEE REPORT
  1. Report on the status of the Livescan Network, Installations, and Enhancements
  2. Report on the Status of Automated Biometric Identification System
  3. LACRIS Statistics (See Attachment A)
    - a. LA PhotoManager (DMS)
    - b. Mobile ID – Bluecheck (Fingerprints)
    - c. Training Update (Classes & Students)
    - d. MBIS Activity Statistics
  4. Report on the Steering Committee
  5. General Updates
    - a. Mobile ID
    - b. Facial Recognition
- IV. ACTION ITEMS
  - A. Authorization to Fund Mobile Booking Truck for approximately \$870,000. (See Attachment B)

V. OTHER ITEMS AND PUBLIC COMMENT

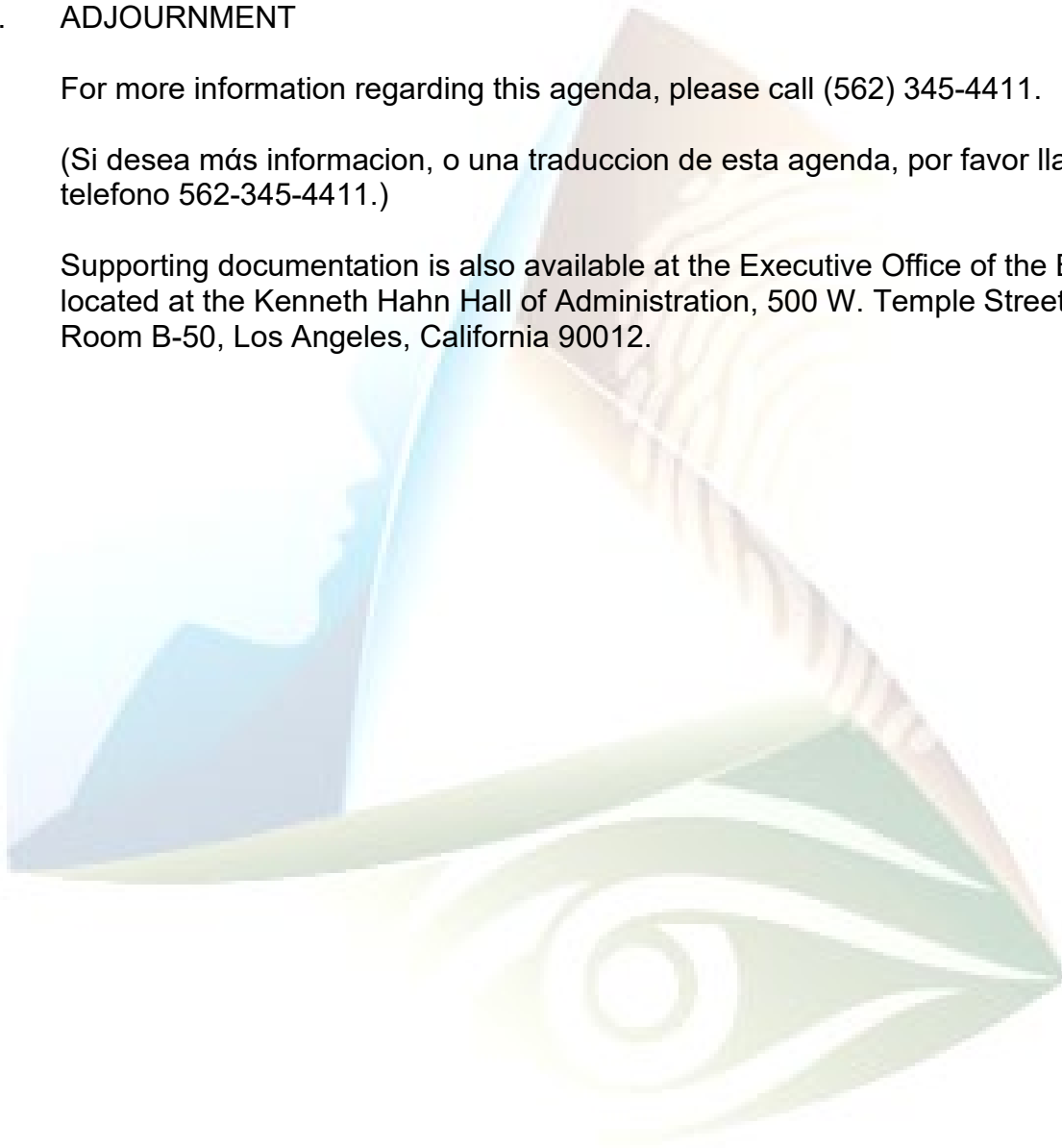
Public comments may be submitted prior to the meeting at [info@lacris.org](mailto:info@lacris.org) or by mail to the following address: LACRIS, 12440 E. Imperial Hwy., Suite 400W, Norwalk, CA 90650.

VI. ADJOURNMENT

For more information regarding this agenda, please call (562) 345-4411.

(Si desea más información, o una traducción de esta agenda, por favor llame al telefono 562-345-4411.)

Supporting documentation is also available at the Executive Office of the Board located at the Kenneth Hahn Hall of Administration, 500 W. Temple Street, Room B-50, Los Angeles, California 90012.



Local Cal-ID RAN Board Meeting  
Minutes of May 25, 2023

Kenneth Hahn Hall of Administration  
500 West Temple Street, Room 830  
Los Angeles, California 90012

**MEMBERS PRESENT**

Chief Richard Bell, West Covina Police Department

**ALTERNATES PRESENT**

Chloe Cheney-Rice (for Supervisor Janice Hahn)  
Captain James C. Peterson (for Sheriff Robert Luna, LASD)  
Brian Cosgrove (for District Attorney George Gascón)  
Brian Williams (for L.A. City Mayor Karen Bass)  
Errol Lawson (for Chief Michel R. Moore, LAPD)

**STAFF**

Sgt. Steve Bevan, LACRIS  
Christian Hai, LACRIS  
Cammy DuPont, General Counsel, County Counsel  
Angela Vargas, LACRIS, Agency Secretary

**Guests**

Adam MacDonald, West Covina PD  
Alex Vidari, LAPD  
Edgar Berrios, LAPD

**PUBLIC**

None

**I. CONVENE**

The May 25, 2023, meeting of the Local Cal-ID RAN Board was called to order by Chloe Cheney-Rice at 2:02 p.m.

**II. REVIEW/APPROVAL OF MINUTES**

The minutes of the March 23, 2023, meeting were adopted (moved by Chief Richard Bell, seconded by Captain James Peterson, and approved by a majority of the board, with one abstention).

**III. REPORT ON THE TECHNICAL SUBCOMMITTEE**

Sergeant Steve Bevan reported on the tasks assigned to the Technical Subcommittee on March 23, 2023.

1. Report on the Status of the LiveScan Network, Installations, and Enhancements

There were no Livescan installs during the months of March and April 2023.

2. Report on the Status of ABIS

From March 1 to April 30, 2023, various LACRIS systems were inoperable and experienced unscheduled downtime for approximately nine (9) hours and nine (9) minutes.

3. LACRIS Statistics

MBIS Activity Statistics

Date Range: 3/1/23 to 4/30/23		
Tenprint Inquiries	61,480	
Tenprint Registration	29,518	
Tenprint Positive Identification	42,412	
- Lights Out	41,175	
- Manually Processed	1,237	
Latent Inquiries	4,633	
Latent Identifications (Hits)	974	
- Foster and Freeman Hits	15	
Major Latent Hits: Part 1 Crimes	Total	FF
Murder	89	2
Forcible Rape	1	0
Robbery	271	5

Aggravated Assault	46	0
Burglary	356	0
Larceny	41	0
Motor Vehicle Theft	30	0
Arson	3	0
<b>TOTAL Part 1 Crimes:</b>	<b>837</b>	<b>7</b>

**LA PhotoManager**

Total DMS Records (not sealed)	7,750,798	Total DMS Subjects (not sealed)	2,442,939	Approximately 68.5% with more than one record
Total System Users Over The Last 12 Months:	4,330	Users with Facial Recognition Training and Access:		1,230
<b>FOR THE PERIOD OF 3/1/23 to 4/30/23</b>				
Total New Records	29,490	Total New Subjects	6,832	Approximately 76.83% recidivism
Total Period FR Searches	5,745	Total Period CAFRI Searches	147	
		Total Period CAFRI Searches Received	292	

**Mobile ID – ID BlueCheck (Fingers)**

During the months of March and April 2023, there were 2,458 total inquiries, and 1,810 positive Identifications, for a positive identification ratio of 74%.

Training Update:

Number of Classes and Students: 3/1/23 – 4/30/23

<b>Class Name</b>	<b>Total Classes Held</b>
CBS Livescan Training	13
Facial Recognition and LA PhotoManager	5
<b>TOTAL</b>	<b>18</b>

**Students:**

<b>Class Name</b>	<b>Total Students</b>
CBS Livescan Training	59
Facial Recognition and LA PhotoManager	75
<b>TOTAL</b>	<b>134</b>

4. Steering Committee

The last Technical Subcommittee meeting was held on May 17, 2023. The meeting participants were briefed on the status of LACRIS systems and ongoing projects. The agencies using the Foster Freeman DCS5 workstations requested five additional years of maintenance and support.

5. General Updates

The Mobile Booking Truck was approved for purchase by the RAN Board in 2022.

Alex Vidari and Edgar Berrios from LAPD presented success stories about identifying numerous suspects using the Foster Freeman DCS5.

IV. ACTION ITEMS

A. Authorization to Fund Maintenance and Support of the Foster Freeman DCS5 Latent Fingerprint Workstations

On May 24, 2018, the RAN Board authorized the purchase of Foster Freeman DCS5 latent print imaging workstations for a total cost of \$6.4 million, including maintenance and support (M&S). On July 1, 2023, the Foster Freeman M&S will expire. LACRIS requests funding for five (5) years of continuous M&S for the Foster Freeman DCS5 Latent Fingerprint imaging workstations for approximately \$895,000.

*Discussion: Brian Cosgrove asked if the pricing was better based on 5 years.*

**ACTION:**

**THE ITEM WAS MOVED BY CAPTAIN JAMES PETERSON, SECONDED BY CHIEF RICHARD BELL, AND APPROVED BY A MAJORITY OF THE BOARD, WITH ONE ABSTENTION, TO FUND 5 YEARS MAINTENANCE FOR THE FOSTER FREEMAN DCS5 FOR AN APPROXIMATE COST OF \$895,000.**

V. PUBLIC COMMENTS

A member of the public emailed a comment to [info@lacris.org](mailto:info@lacris.org), which was read during the Public Comment Section of the meeting.

VI. ADJOURNMENT

The meeting was adjourned at 2:23 p.m. The next meeting is scheduled for July 27, 2023, at 2:00 p.m.

LA PhotoManager (DMS)

Total DMS Records (not sealed)	7,780,878	Total DMS Subjects (not sealed)	2,449,979	Approximately 68.5% with more than one record
Total System Users Over the Last 12 Months:		4,341	Users with Facial Recognition Training and Access:	1,281
<b>FOR THE PERIOD OF 5/1/23 to 6/30/23</b>				
Total New Records	30,407	Total New Subjects	6,957	Approximately 77.13% of recidivism
Total Period FR Searches	6,193	Total Period CAFRI Searches	122	
		Total Period CAFRI Searches Received	180	

## Mobile ID - BlueCheck (Fingerprints)

5/1/23 to 6/30/23

Month	Total Inquiries	Positive Identifications	Percentage of Positive IDs
May	1106	751	68%
June	1000	726	73%
<b>2 Months</b>	<b>2106</b>	<b>1477</b>	<b>70%</b>

Training Update:

For the period of 5/1/23 to 6/30/23

## Classes:

Class Name	Total Classes Held
CBS Livescan Training	15
Facial Recognition and LA PhotoManager	4
<b>TOTAL</b>	<b>19</b>

## Students:

Class Name	Total Students
CBS Livescan Training	85
Facial Recognition and LA PhotoManager	52
<b>TOTAL</b>	<b>137</b>



## MBIS Activity Statistics

<b>Date Range: 05/01/2023 - 06/30/2023</b>		
Tenprint Inquiries <sup>1</sup>	<b>63,145</b>	
Tenprint Registration <sup>2</sup>	<b>30,482</b>	
Tenprint Positive Identification <sup>3</sup>	<b>44,175</b>	
- <i>Lights Out</i>	42,954	
- <i>Manually Processed</i>	1,221	
Latent Inquiries <sup>1</sup>	<b>4,969</b>	
Latent Identifications (Hits) <sup>3</sup>	<b>1,038</b>	
- <i>Foster and Freeman Hits</i> <sup>4</sup>	15	
<b>Major Latent Hits : Part 1 Crime Types</b>	<b>Total</b>	<b>FF <sup>5</sup></b>
Murder	117	4
Forcible Rape	4	0
Robbery	270	3
Aggravated Assault	28	0
Burglary	379	0
Larceny	62	0
Motor Vehicle Theft	62	0
Arson	1	0
<b>TOTAL Part 1 Crime Types :</b>	<b>923</b>	<b>7</b>

<sup>1</sup> Tenprint: Count of all CRM, DCD, IDN, and REG received within the specified date range

Latent: Count of all latent searches launched within specified date range

<sup>2</sup> Count of all CRM, DCD, and REG completed within the specified date range which are not retained duplicate submissions

<sup>3</sup> Tenprint: Count of all CRM, DCD, IDN, and REG HITS completed the specified date range

Latent: Count of all Latent HITS completed within the specified date range

<sup>4</sup> Sub-count of the Latent HITS where a Foster & Freeman (FF) device was used

<sup>5</sup> Sub-count of the Part 1 Crime Type HITS where a Foster & Freeman (FF) device was used

THE DATA CONTAINED HEREIN WAS PRINTED FROM THE LACRIS MULTIMODAL-BIOMETRIC IDENTIFICATION SYSTEM (MBIS) BY avargas ON 07/11/2023 AT 2:02:35

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**PRELIMINARY  
SPECIFICATIONS FOR:**

**LA COUNTY SHERIFF'S DEPT. (CA)  
MOBILE DUI/BAT VEHICLE**

**LDV MODEL # S36BAT-34614-22**

**DATE**

**MARCH 30, 2023 REV3**

~~August 9, 2021 REV2~~

~~August 3, 2021 REV1~~

~~June 23, 2021~~



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**PRICING PAGE:**

Total price per unit as specified, FOB Origin \$703,492.00

Delivery charge to LA COUNTY SHERIFFS DEPT (CA) \$7,980.00

<b>Total price per unit</b>	<b>\$711,472.00</b>
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Delivery terms: Ask your Sales Representative.

Payment Terms: 50% down payment, 50% net 30.

Quote is firm for 180 days from specification date.

Quoted price does not include any applicable FET, federal, state or local tax unless specified.



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Item	Qty	
1.00		<p><b><u>CHASSIS/BODY DIMENSIONS:</u></b>            26' walk-in van            • Wheelbase of chassis: 250"            • Overall length of apparatus: 432"            • Overall apparatus width, rub rail to rub rail: 99"            • Overall height of apparatus (loaded): 134"            • Interior walkway height raw body: 87"            • Interior walkway height finished: 82"            • Interior walkway length: 312"            • Interior raw body width: 96"            • Interior finished body width: 88.5"</p> <p>Final measurements are dependent on body builder, chassis components, axles, tires, frame, suspension, and roof-mounted equipment.</p>
2.00		<p><b><u>CHASSIS:</u></b></p>
2.01	1	<p>New Freightliner MT-55 forward control chassis. 26,000-lb. GVWR with air ride rear suspension and hydraulic brakes.</p> <p><b><u>ENGINE:</u></b>            Cummins 6.7, minimum of 300 HP, diesel engine, 660 lb./ft. torque @1,600 RPM minimum (or approved equal) Must be California Air Resources Board Approved for use in the state of California            Accessible fluid check and fill            12v 200 amp 28-SI quadramount pad alternator            (2) model 1131, group 31, 12-volt maintenance free 1900 CCA threaded stud batteries            18.7 cfm air compressor with internal safety valve            Exhaust brake integral with variable geometry turbo with on/off dash switch            Engine after treatment device, automatic over the road regeneration and dash mounted regeneration request/inhibit switch            10-gallon diesel exhaust fluid tank RH frame mounted            LH horizontal tailpipe, exit forward of rear tires</p> <p><b><u>COOLING SYSTEM:</u></b>            Heavy-duty cooling system available with 10 gallons plastic DEF tank            Front-mounted radiator with ADC electric on/off fan clutch.</p> <p><b><u>TRANSMISSION:</u></b>            Heavy-duty automatic transmission with park pawl with PTO provision well suitable for final configuration of the vehicle            Transmission guard            Heavy-duty transmission cooler available.            Transmission oil check and fill</p> <p><b><u>WHEELBASE:</u></b>            Standard for vehicle design/configuration</p> <p><b><u>STEERING:</u></b>            TRW TAS-65 power steering</p>



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Item	Qty
	<p>Telescopic steering column with foot actuated pedal            4-spoke 18" (450mm) 1k charcoal steering wheel</p> <p><b><u>FRONT SUSPENSION:</u></b>            Minimum of 8,000 lb. single front axle, taper-leaf spring front suspension            Maintenance free rubber bushings - front suspension            Heavy-duty front shock absorbers</p> <p><b><u>REAR AXLE AND EQUIPMENT:</u></b>            17,500 lb. single rear axle            5.13 rear axle ratio            Iron rear axle carrier with standard axle housing            SPL70 Dana Spicer main driveline with half round yokes            Rear axle driveline guard            Heavy-duty shock absorbers</p> <p><b><u>REAR SUSPENSION:</u></b>            Airliner 18,000 lb. rear air suspension or Department approved equal            Manual dump valve for air suspension with indicator light, without gauge            Dual instant response rear suspension leveling valves            Gabriel rear shock absorbers</p> <p><b><u>BRAKE SYSTEM:</u></b>            Hydraulic brake package with optional air supply            Wabco hydraulic 4S/4M without traction control            Bosch hydraulic pin-slide disc rear brakes</p> <p><b><u>FUEL TANKS:</u></b>            60 gal / 227-liter steel fuel tank - between rails            Length of auxiliary pickup tubes (generators, furnaces etc.) shall prevent these devices from using more than 75% of vehicle's fuel tank capacity</p> <p><b><u>TIRES:</u></b>            Michelin XZE 255/70R22.5 16ply radial front tires or equal            Michelin XD2 255/70R22.5 16ply radial rear tires or equal</p> <p><b><u>WHEELS &amp; HUBS:</u></b>            22.5X8.25 10-hub pilot aluminum front wheels or equal            22.5X8.25 10-hub pilot aluminum rear wheels or equal</p> <p><b><u>CAB EXTERIOR:</u></b>            Hood mounted chromed plastic grille            Dual electric horns</p> <p><b><u>CAB INTERIOR:</u></b>            Sanden compact air conditioner compressor or equal            Auto self-reset circuit breakers and fuses            Green gauge backlighting            Cruise control switches            Driver message center w/LCD display, 24 warning lamps, data linked, AMI            Elec fuel gauge &amp; low fuel indicator lamp            Programmable RPM ctrl w/low voltage auto high idle &amp; RPM ctrl switches            Electric engine coolant temp gauge w/warning lamp and alarm</p>



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Item	Qty	
		Automatic transmission oil temp gauge w/warning lamp Engine hour meter, integral to message center LCD Electric engine oil pressure gauge w/warning lamp and alarm Electronic mph speedometer Electronic 3500 rpm tachometer Digital voltage display integral with driver display Wagner 7212 turn signal flasher
2.02		<b><u>CHASSIS WARRANTY:</u></b> <ul style="list-style-type: none"> <li>• Three (3)-year/50,000 mile Freightliner MT-55 chassis warranty.</li> <li>• Three (3)-year/unlimited miles Cummins engine warranty.</li> <li>• Five (5)-year/unlimited miles Allison EVS transmission warranty.</li> </ul>
2.03	1	US DOT triangle reflector kit with three (3) triangles, for compliance with FMCSA regulations. Includes plastic storage case. Kit will be shipped loose in the vehicle. <b>NOTE:</b> Includes plastic storage case.
3.00		<b><u>BODY:</u></b>
3.01	1	<ul style="list-style-type: none"> <li>• Load space area shall be 83" high x 93" wide x 26' long all aluminum step van body.</li> <li>• Driver sedan door with slider window, door skin shall be chemically bonded to door frame structure reducing the amount of rivets required. Door shall have continuous stainless steel piano hinge and two (2) nylon straps.</li> <li>• Passenger sedan door with slider window, door skin shall be chemically bonded to door frame structure reducing the amount of rivets required. Door shall have continuous stainless steel piano hinge and two (2) nylon straps.</li> <li>• Sedan doors shall have a 0.125" aluminum tread plate step well for 18" skirt depth.</li> <li>• Sedan doors shall have black non-skid tape on all door entry sills.</li> <li>• Sedan doors shall have polished aluminum TriMark flush mounted locking hardware with self-aligning rotary latch and matching key locks. Outside door handles not to exceed 50" from ground.</li> <li>• Aluminum alloy double H wall beam, 6005-T5 alloy, 3" deep x 1.5" wide, 0.125 wall thickness. Studs feature machined wire pass-throughs, and raised adhesive control features on base.</li> <li>• I-beams shall be chemically bonded to sidewalls eliminating the need for additional rivets. Buck-rivets will be used to fasten the top, bottom and rub rail. Use of two-sided tape is not acceptable.</li> <li>• Body shall have 0.125" strain-hardened aluminum alloy 5052-H36 side panels. The upper panels shall be free of rivets allowing for smooth graphics application.</li> <li>• Skirt supports, 1.5 x 1.5 x 0.125 angle to reinforce skirt edge and hold bottom edge in a straight line. 0.188 x 1.00" flat braces placed at 4' intervals and riveted to lower wall angle and floor to maintain sidewall skirt rigidity.</li> <li>• Painted 0.040" aluminum roof over 3" x 1 1/2" x 0.125" extruded aluminum roof bows on 16" centers. Perimeter of roof shall be chemically sealed.</li> <li>• Lift-up molded fiberglass hood with chrome grill insert. Hood shall have integrated headlamps and turn signal indicators and dual assist gas charged lift shocks. The use of mechanical assist</li> </ul>



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Item	Qty	
		<p>springs is not acceptable.</p> <ul style="list-style-type: none"> <li>• Extruded aluminum floor with interlocking planks, 1.88" high x various widths, 0.125" top surface. 6005-T5 alloy and temper. Heavy-duty thick-wall extruded planks fore and aft of all floor cutouts and every 5th plank in all other areas. Planks made of 6005-t5 alloy and temper, 0.250" thick top surface.</li> <li>• Bright polished front bumper.</li> <li>• Tinted safety plate glass windshield with driver and passenger sun visors.</li> <li>• Full width 12" deep heavy-duty aluminum rear bumper with center step, painted to match the body.</li> <li>• Integral cab air conditioning and heating system with dash controls.</li> <li>• Velvac heated remote control rear view mirrors with dash controls. Upper mirror has 62-sq.in. of flat surface and lower mirror has 30-sq.in. of convex surface. Mirror has a fold-away arm.</li> <li>• Driver seat shall be Seats Inc. Magnum 200 mechanical suspension seat on fixed pedestal. Seat shall be covered in black cloth and have arm rests, lumbar support, tilt back and 3-point seat belt.</li> <li>• Passenger seat shall be black jump seat with 2-point seat belt.</li> <li>• Intermittent windshield wiper/washer with single heavy-duty windshield wiper motor.</li> <li>• Custom front wheel cutouts for 10R22.5 tires.</li> <li>• Aluminum engine box cover with acoustical and thermal insulation.</li> <li>• Acoustical and thermal insulation with heat shield on exterior fire-wall.</li> <li>• Full length skirting. Skirt shall extend 18" down from the bottom of floor extrusions.</li> <li>• All clearance and side marker lights to be LED.</li> <li>• Standard structural warranty of 5 years or 50,000 miles and standard component warranty of 12 months or 12,000 miles.</li> <li>• The vehicle shall be fully sanded on all exterior surfaces with no more than 150 grit to assure removal of imperfections in metal surface. All aluminum shall be chemically etched and primed prior to painting. Base body color shall be oven baked and painted to commercial truck standards.</li> </ul> <p>Note: Specifications are from body manufacturer and are subject to change without notice.</p> <p><b>NOTE:</b> All aluminum commercially available production model walk-in body (no exceptions). May not include any proprietary construction techniques or components. Built to the following specifications</p>
3.02	2	Seat belt extenders, black.
3.03		<p>Single-key locking system for vehicle, including tailgate and glove compartment. NO CHIPPED KEYS. Aluminum keys are not acceptable. Four (4) keys must accompany each vehicle including every pertinent locker, cabinet, and etc.</p>
3.04	1	<p>32" wide aluminum sedan door installed above floor. Includes 21.5" wide x 25.5" high fixed window. Door shall have continuous stainless-steel piano hinge, two (2) nylon door straps and an aluminum drip rail.</p> <p><b>NOTE:</b> Interior window covering will be a mini blind.</p>



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Item	Qty	
3.05	2	Exterior heavy-duty fluted aluminum grab handle with rubber inserts and chrome plated stanchions installed at entry door. <b>NOTE:</b> Installed at Cab Entry doors
3.06	1	Interior heavy-duty fluted aluminum grab handle with rubber inserts and chrome plated stanchions installed at entry door. <b>NOTE:</b> Installed at Curb side Entry door
3.07	2	Automatic LED courtesy light at entry door. <b>NOTE:</b> Install at cab entry doors.
3.08	1	Wire one of the overhead lights to function as a courtesy light when the entry door is opened. <b>NOTE:</b> Install at curb side entry door
3.09	1	Courtesy light defeat in Intel-I-Touch™ multiplex control screen. One control button will enable or disable all entry door courtesy lights in the vehicle.
3.10	1	Lippert Treadlite 24" wide - single - automatic electric steel entry step mounted under entry door. Product features: • Automatic LED ground light • Hold/Cycle switch that allows step to remain extended unless ignition is turned on. <b>NOTE:</b> Step light will be tied into courtesy light defeat.
3.11	1	Pull out aluminum stairs encased in a narrow profile cassette installed below floor line, eliminating the need for an interior stepwell. Includes exterior fold out handrail.
3.12	1	Maxxima LED Round combination stop/tail, turn and reverse lights. <b>NOTE:</b> (or equivalent)
3.13	1	Entire underside shall be undercoated. Includes floor extrusions, step wells and aluminum compartments.
3.14	1	LDV rear mud flaps. Includes anti-sail brackets when required.
3.15	1	Street side Slide out up to 132" length x 30" deep (full extension of 26").
3.16	1	Curb side Slide out up to 99" length x 30" deep (full extension of 26").
3.17	1	Flat floor slide outs room extensions, fabricated with a structurally rigid welded aluminum tube design with a fully bonded aluminum shell. During deployment an electronic control system automatically expands the room extension and lowers the floor to flush position. • Slide-out to be fabricated with a structurally rigid welded aluminum tube design with a fully bonded aluminum shell. • 0.125" 5052 aluminum wall skins on slide-out. • 1" x 3" x 0.125" 6061 aluminum wall beam channels with 2" x 6" wire chase slot 6" from the top. • 2" x 4" x 0.125" 6061 aluminum lower tubular structure with 1" x 2" x 0.125" cross supports. • 1" x 4" x 0.125" 6061 aluminum upper tubular structure with 1" x 1" x 0.125" cross supports. • All exposed tube ends to be capped before welding assembly together.





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Item	Qty	
		<ul style="list-style-type: none"> <li>• Flexible wire chase to be fully enclosed in aluminum channel with access cover. Fabric covered or exposed cable chase will not be acceptable under any circumstance.</li> <li>• Awning that automatically extends and retracts over the top of the room to protect from weather and debris.</li> <li>• Full perimeter double rubber bulb seal with an additional seal in the fully extended and fully retracted positions.</li> <li>• Slide out shall be fully automatic and shall not require the operator to manually move the floor panel or any other component of the slide out before or after deployment.</li> <li>• No track or hardware shall be attached to the ceiling of the body.</li> <li>• Multiplexed electric over hydraulic control system programmed to lower the slide out to floor height after full extension.</li> <li>• Vehicle automation system touch screen(s) shall have a slide-out extend/retract icon on the MISC screen for each slide out room.</li> <li>• There shall be an interlock through the vehicle automation system to prevent moving the vehicle with the slide out extended. Vehicle automation system to give audible and visual alert if the ignition is turned to on position when any slide out is extended.</li> </ul> <p>Include photos of vehicles previously built with flat floor slide out rooms forward and aft of the rear axle with response. Photos must show slide out construction and fit and finish. Ergonomic safety and efficiency is of utmost importance in the design and functionality of this vehicle, therefore, above floor or straight out slide outs will not be acceptable.</p>
3.18		Ignition Interlock to prevent vehicle from starting when any of the external extension devices are deployed.
3.19	4	Flashing warning light for slide out. <b>NOTE:</b> Amber LED color.
4.00		<b><u>PAINT / GRAPHICS:</u></b>
4.01		Body to be painted with Imron metallic paint. Lower color (rub rail down) to be Sable Metallic # L0327HL and upper color to be an 18% gray color.
4.02	3	Between upper and lower painted colors, a triple stripe of green, blue, and tan up to 4-inch wide stripes on the exterior back and sides of the vehicle. <b>NOTE:</b> Exact color to be determined after award
4.03	2	Approximate 60-80" wide decal to be applied to the upper rear section of each side <b>NOTE:</b> Drawing will be provided after award Supply vector file format artwork (ai, ei.) to LDV to produce graphics



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Item	Qty	
5.00		<p><b><u>INTERIOR:</u></b></p> <ul style="list-style-type: none"> <li>• Wall Covering: #66 Silver Smooth FRP</li> <li>• Ceiling Fabric: Silver Mist</li> <li>• Floor Covering: #150 Onyx PVC Flooring</li> <li>• Office Chairs: Black</li> <li>• Vinyl Coverings: #WH1-2140 Whisper Black</li> <li>• Cabinets: #EBT-2-2002 Black Powder Coated Aluminum</li> <li>• Ceiling Trim: #EBT-2-2002 Black Powder Coated Aluminum</li> <li>• Slide out Facia: #EBT-2-2002 Black Powder Coated Aluminum</li> <li>• Aluminum A/C Duct work: #EBT-2-2002 Black Powder Coated Aluminum</li> <li>• Counters and Tables: #4880-38 Carbon Mesh Laminate</li> </ul>
6.00		<b><u>DRIVER / PASSENGER CAB AREA:</u></b>
6.01	1	<p>Walk-in van custom cab area finishing.</p> <ul style="list-style-type: none"> <li>• Cover cab doors with aluminum panels powder coated black.</li> <li>• Heavy-duty rubber grab handle on each door.</li> <li>• Panels covered with vinyl or fabric above driver and passenger doors.</li> <li>• Vehicle height sign on dash.</li> <li>• Insulated black rubber mat in driver and passenger toe plate area.</li> <li>• Insulate walls in kick plate area and install black carpeted panels.</li> <li>• Vehicle shall have a Final Stage Vehicle Certification and Altered Vehicle Certification as required by Federal Motor Vehicle Safety Standards (FMVSS) 49 CFR Part 567.5 and 567.7</li> <li>• Payload sticker in cab area with vehicle axle load ratings and available axle payload as built.</li> </ul>
6.02	1	Work area on passenger side covered with laminate to match rear countertops and trimmed with vinyl T-molding.
6.03	1	Multiplex Control systems shall be located in the overhead console. The entire console shall be constructed of 3/4" plywood. The face shall be finished with black laminate and the bottom shall be covered with vinyl
6.04	1	Red/Clear LED dome light with 3-position switch, red/off/white.
6.05	1	Color back up camera system with 7" LCD monitor and day/night camera. Camera includes a microphone for audio commands from a spotter to the driver during backing operations.
6.06	1	AM/FM stereo with Bluetooth and one (1) pair of 6" x 9" speakers.
6.07	1	<p>Blackout curtains with magnetic securement for all cab area windows. Curtain specs:</p> <ul style="list-style-type: none"> <li>• Woven fabric made of pigmented and acrylic top coated 45% polyester / 55% cotton fabric</li> <li>• Tensile Strength: 283 lbs. x 214 lbs.</li> <li>• Manufacturer's 5-year limited warranty</li> <li>• Seams shall be double stitch/single fold</li> <li>• Meets California State Fire Marshall requirements for flame retardancy - Title 19, CPAI-84 (Section 6), and FMVSS-302</li> </ul> <p><b>NOTE:</b> Blackout curtain color will be TBD</p>



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Item	Qty	
7.00		<b>WALLS, CEILING AND FLOOR:</b>
7.01		Insulate walls with a minimum of 2-1/2" of fiberglass with an R-11 rating. Cover interior body side posts with 1/2" plywood sub wall, structural plywood sub wall, Exposure 1-APA, 5 ply, face veneer plugged and sanded. Meets California Air Resources Board (CARB) phase 2 requirements.
7.02		Cover sub wall with smooth finish Kemlite 0.075" fiberglass reinforced plastic (FRP) lining. Wall covering shall be a continuous piece front to back, no seams acceptable.
7.03		Insulate ceiling with a minimum of 2-1/2" of fiberglass with an R-11 rating. Cover interior roof beams with 1/2" plywood sub wall, structural plywood sub wall, Exposure 1-APA, 5 ply, face veneer plugged and sanded. Meets California Air Resources Board (CARB) phase 2 requirements. Ceiling shall be 3-piece modular design to allow easy access for future wiring additions and/or maintenance. Modular ceiling panels to be covered in silver fabric
7.04		Floor underlayment to be 5/8" exterior grade tongue and groove structural plywood, Exposure 1-APA, 6 ply, face veneer plugged and sanded. Meets California Air Resources Board (CARB) phase 2 requirements
7.05		Lonseal Loncoin II Flecks non-skid commercial grade PVC flooring. The flooring shall be continuous, one piece full length, full width, no seams.
7.06		Vinyl cove molding (mop board) at base of wall, 2-1/2" high. Installed where required.
7.07		All bulkheads shall be covered with Kemlite 0.075" FRP. Trim exposed edges of bulkheads with rounded anodized aluminum trim where applicable.
7.08	1	Cover load space door with powder coated aluminum panel with heavy-duty rubber grab handle. <b>NOTE:</b> Interior window covering will be a mini blind.
8.00		<b>GALLEY / LAVATORY:</b>
8.01	1	Microwave oven, minimum 1.0 cu. ft..1000-watt. <b>NOTE:</b> (or equal)
8.02	1	Keurig Coffee maker. <b>NOTE:</b> (or equal)
8.03	1	Norcold NR751B AC and DC powered refrigerator with the following features: • 2.7 cu. ft. capacity. • Freezer shelf for ice cube tray. • Door bin holds 2-liter containers. • Integrated door latch. • 120/230Vac 50/60 Hz and 12/24 Vdc <b>NOTE:</b> (or equal)



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8.04	1	Electric galley water system. Includes: <ul style="list-style-type: none"> <li>• Sink.</li> <li>• Electric pump water system.</li> <li>• Gooseneck Deck mounted centerset faucet.</li> <li>• Five-gallon fresh water tank installed in cabinet below sink.</li> <li>• Five-gallon gray water tank installed in cabinet below sink.</li> </ul>
9.00		<b><u>SEATING:</u></b>
9.01	3	Space Air Grid office chair 5560 black with armrests, five caster spider base, and adjustable height. <b>NOTE:</b> One (1) per workstation (or equal)
10.00		<b><u>CABINETS:</u></b>
10.01		Base cabinets constructed of 0.080" powder coated aluminum with anodized aluminum frames. <ul style="list-style-type: none"> <li>• Base cabinet doors are double shell, formed from a single sheet of 0.080" aluminum, with a 0.040" aluminum door back attached.</li> <li>• Overhead cabinets constructed of 0.064" powder coated aluminum with anodized aluminum frames.</li> <li>• Overhead cabinets doors are double shell, formed from a single sheet of 0.064" aluminum, with a 0.040" aluminum door back attached.</li> <li>• Overhead cabinets doors swing up on a full-length aluminum hinge, and are held open with a locking door stay.</li> </ul> <b>NOTE:</b> No exceptions to cabinet construction.
10.02		Full width by minimum 20" high overhead cabinets located above workstations.
10.03	3	Gas spring lift supports on overhead cabinet door.
10.04	2	LED light with on/off switch, mounted under overhead cabinet.
10.05		Double door base cabinets under counter, include adjustable shelf in each.
10.06		Overhead galley cabinet with built-in microwave opening.
10.07		Galley base cabinet with built-in refrigerator opening
10.08		Double door full height by minimum 36" wide storage closet.
10.09	1	Slide-out printer tray.
10.10	6	FRP shelf up to 36" wide with 2" lip at front edge. <b>NOTE:</b> Three (3) for each closet
10.11		Closet shelves shall be infinitely adjustable using mini B-line track and hardware.
10.12		Countertops shall be covered in 0.040" Wilsonart laminate. All exposed edges shall be covered with heavy duty flexible PVC T-molding.
10.13	1	Pencil drawer under countertop.
10.14	1	Computer keyboard and mouse tray under countertop.
10.15	3	Computer cable pass-thru grommet in counter. <b>NOTE:</b> One (1) at each workstation #1-#3.



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Item	Qty	
11.00		<b><u>HVAC SYSTEM:</u></b>
11.01	2	Fan-tastic Vent model 1450 3-speed reversible 12" power roof ventilator. <b>NOTE:</b> (or equal)
11.02	3	Ducted Coleman Polar Mach 8 series (or equal) low profile air conditioners with power and thermostat controlled by the vehicle automation system. <ul style="list-style-type: none"> <li>• Vehicle automation system HVAC screen shall have a digital temperature display and an icon to increase or decrease the temperature setting for each air conditioner, there shall also be icons to choose fan high/low speed. Touch screen(s) will also have icons to select Auto, Cool or Heat modes - no exceptions.</li> <li>• Vehicle automation system touch pad(s) with digital displays in rooms that do not have a touch screen to provide local control of the temperature setting.</li> <li>• High Capacity Air Duct manufactured from polystyrene foam laminated with 99% pure polished aluminum inside and out, internally mounted in ceiling</li> <li>• 13,500 nominal Btu/hr. air conditioner with condensate pump.</li> <li>• Grille Assembly with 6,000 Btu/hr. heat strip</li> <li>• Louvered Ceiling Vents, as required</li> </ul> <b>NOTE:</b> No exceptions.
11.03	1	Broan model 174 (or equal) wall mount 5,120 Btu/hr. electric heater. Vehicle automation system HVAC screen shall have a digital temperature display and an icon to increase or decrease the temperature setting for heater. Additionally, there shall be system touch pad(s) with digital displays in rooms that do not have a touch screen to provide local control of the temperature setting. <b>NOTE:</b> No exceptions.
11.04	1	PuroAir HEPA 14 Air Purifier Dimensions: 10.63 x 10.63 x 16.14 inches; 8 Pounds <b>NOTE:</b> (or equal)
12.00		<b><u>AC ELECTRICAL SYSTEM:</u></b>
12.01	1	Onan Commercial Quiet Diesel 12-kW generator model 12.0HDKCD-2209 mounted in a custom fabricated all aluminum compartment. <b>Generator to be controlled and monitored by vehicle automation system.</b> Generator features: <ul style="list-style-type: none"> <li>• Computer-controlled constant speed operation</li> <li>• Unique sound-controlled housing encloses cooling system and muffler (69 dB(A) @ full load measured at 10 feet)</li> <li>• Three-point, fully focalized internal mounting system</li> <li>• Service and maintenance points accessible through easy-latch side service door</li> <li>• High quality, pure sine wave electrical output maximizes sensitive equipment performance</li> <li>• Typical Gal/hr. fuel consumption: No load = 0.11, Half load = 0.48, Full load = 1.20</li> </ul> Compartment shall be constructed to the following specifications: <ul style="list-style-type: none"> <li>• Compartment shall be constructed from 0.187" aluminum with all welded seams.</li> </ul>



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		<ul style="list-style-type: none"> <li>• Compartment shall have 0.125" aluminum 2" box pan doors and 0.125" aluminum frames.</li> <li>• Door frames shall be riveted to the body and welded to the compartments.</li> <li>• Doors shall have stainless steel hinges attached to the doors and door frames with stainless machine screws.</li> <li>• Doors shall have slam latches and flush mounted handles.</li> <li>• Doors shall have 0.100" aluminum treadplate panels on interior surfaces.</li> <li>• Doors shall be held open in a 90° position with gas charged lift/support cylinders.</li> <li>• Doors shall be sealed with industrial grade neoprene gasket.</li> </ul> <p><b>NOTE:</b>            Generator exhaust shall be routed to the street side of the vehicle.            No exceptions</p>
12.02	1	ACData surge suppressor for protection of entire AC power system. Product features: <ul style="list-style-type: none"> <li>• UL listed: UL1449 3rd Edition</li> <li>• LED visual verification of status</li> </ul>
12.03	1	Furnish and install a multiplexed vehicle automation system incorporated into common touch screen that is custom programmed to monitor and control onboard systems as described throughout these specifications. The automation system software must allow simultaneous distribution of information to multiple onboard control/monitoring stations and the software must be updateable and configurable as required. This system is mandatory as it simplifies start up procedures, contains fewer operating components, reduces operational start-up time, reduces the total amount of wiring in the vehicle and has error detection protocols and troubleshooting features. Automation system includes: <ul style="list-style-type: none"> <li>• One (1), 10" LCD touch screens with custom graphics for control and monitoring</li> <li>• One (1) 3" touch pad with custom graphics for local control of HVAC and lighting</li> <li>• AC power distribution control and monitoring for the generator with power management</li> <li>• DC power distribution control and monitoring with I/O channels and 3 battery banks</li> <li>• Manual or automatic generator control</li> <li>• HVAC and temperature control in each section of the truck</li> <li>• Lighting control in each section of the truck and exterior</li> <li>• Automatic power transfer switches</li> <li>• Automated startup and shutdown mode that will enable the command center to be fully operational/fully deployed in no more than ten minutes time by a single operator. This includes but is not limited to: generator startup, interior and exterior lighting powered on, HVAC systems powered on, galley equipment powered on, audio/video systems powered on, slide outs deployed, stabilizers deployed, radio systems powered on, computer network equipment powered on, battery charging system powered on, satellite data dish launched, satellite TV dish launched, mast raised, and awning extended.</li> <li>• Storage mode configuration to ensure auxiliary and chassis battery systems are maintained at full charge capacity. Storage mode must also control heating and air conditioning systems at a preset level to maintain interior vehicle temperature.</li> </ul>



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		<ul style="list-style-type: none"> <li>• Battery Tend mode that automatically starts the generator and charges all battery banks when voltage drops below a user definable voltage setting. The generator will run for approximately two hours to fully charge the battery banks and then shut down.</li> <li>• Travel mode to maintain interior vehicle temperature and power to critical equipment, such as computers and radios, as the vehicle is traveling to and from the incident scene.</li> <li>• Safety interlocks and warnings. The automation system touch screen(s) will automatically display a warning message and give an audible alert when the ignition switch is turned to the on position with an item deployed. In order to easily identify the item causing the alert condition, the screen(s) must display a list of all items that are deployed, i.e. mast, slide out, leveling jacks, awning, etc.</li> <li>• Built in back up features to ensure system is always functional</li> </ul> <p>Vehicle automation touch screen(s) to have a minimum of four tabs, POWER (home), LIGHTING, HVAC and MISC. The POWER screen will display the main power control icon, AC power source (i.e. generator, shore power or auto-eject) and all AC/DC information as described elsewhere in these specifications. The power screen will also include the Auto Startup, Auto Shutdown, Storage Mode and Battery Tend Mode icons. The LIGHTING screen will display all lighting control icons as described elsewhere in these specifications. The HVAC screen will display HVAC control icons and settings as described elsewhere in these specifications. The MISC screen will display miscellaneous information as described elsewhere in these specifications.</p> <p>Vehicle automation touch screen(s) to have a Utility page that when accessed will show the status of system modules, gen hour meter adjustment, AC system override, and other system control features.</p> <p>Vehicle automation touch screen(s) will automatically time out to a digital clock after 10 minutes of nonuse. Digital clock is to have 12- and 24-hour modes that are user definable.</p> <p>Vehicle automation system must be completely upgradeable. Additional components may be added into system with a simple software modification.</p> <p>Vehicle automation system must include electronic over-current protection (no fuses permitted) with fault indication and automatic restoration.</p> <p>Vehicle automation system capabilities are not to be achieved with use of multiple monitoring systems designed for specific use i.e. water monitors, battery monitors etc.</p> <p><b>NOTE:</b></p> <p>LASD reserves the option to request an on-site demonstration and evaluation of offerors vehicle automation system before acceptance of contract. If requested, a demonstrator vehicle shall be made available at no additional cost. Time and number of hours required for such evaluation shall be determined by LASD.</p> <p>None of the above components and systems may be proprietary.</p> <p>No exceptions to any of the vehicle automation system requirements.</p>
12.04		<p><b>Leveling Control</b></p> <p>Intel-I-Touch Auto Leveling feature. Includes touchscreen indication of vehicle level and control of leveling jacks automatically, individually or in pairs. Jacks are automatically retracted as part of the Auto Shutdown process.</p>



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Item	Qty	
12.05	1	Kussmaul Auto Eject 20, 20A-120Vac shore power inlet with 25-ft. 20A-120Vac shore power cord. #091-20WP-120RD. <b>NOTE:</b> Controlled through the vehicle automation system - no exceptions.
12.06	1	Marinco 50A-125/250Vac shore power package <b>controlled through the vehicle automation system</b> Includes: <ul style="list-style-type: none"> <li>• Waterproof shore power inlet with cap</li> <li>• 50-ft. 50A-125/250Vac shore power cord</li> <li>• 6-ft. 50A-125/250Vac pigtail</li> </ul> <b>NOTE:</b> no exceptions.
12.07	7	20A-125Vac duplex receptacle with dual USB charging ports. Receptacle is not dedicated to any installed equipment. <b>NOTE:</b> Controlled through the vehicle automation system - no exceptions.
12.08	1	20A-125Vac GFCI duplex receptacle. These receptacles are not dedicated to any installed equipment. <b>NOTE:</b> Rear curb side galley Controlled through the vehicle automation system - no exceptions.
12.09	2	20A-125Vac GFCI duplex receptacle. These receptacles are not dedicated to any installed equipment. <ul style="list-style-type: none"> <li>• Dual USB charging ports with wall plate</li> </ul> <b>NOTE:</b> Located in Exterior charging station compartment.
12.10	2	20A-125Vac exterior GFCI duplex receptacle. <b>NOTE:</b> Receptacle will be installed with a weatherproof cover. Controlled through the vehicle automation system - no exceptions
12.11		Wire chase wire management raceway system located as shown on drawing. Product features: <ul style="list-style-type: none"> <li>• Satin anodized finish. The finish resists rust, corrosion and fading. Material extruded from 6063-T5 aluminum alloy.</li> <li>• Removable dual cover. Makes wiring easy and accessible and provides maximum flexibility for adding or relocating outlets and circuits. The cover retention is 45 lbs. straight pull for one minute.</li> <li>• UL Listed multioutlet assemblies. File E68073 Guide PVGT, Fittings: File E121188 Guide RJPR. Meets Article 380 of NEC and meets Section 12-3032 of CEC.</li> <li>• UL and cUL Listed component raceways. File E73943 Guide RJBT, Fittings: File E74343 Guide RJPR. Meets Article 386 of NEC and meets Section 12-600 of CEC.</li> <li>• UL5 and ADA compliant. Raceway and fittings meet UL5 specifications and can be installed in conformance with ADA requirements</li> </ul>





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Item	Qty	
12.12		<p><b><u>AC WIRING REQUIREMENTS:</u></b></p> <ul style="list-style-type: none"> <li>• All AC main wiring shall be stranded THHN wire and run in non-metallic liquid tight conduit.</li> <li>• All AC branch circuit wiring shall be stranded THHN wire (AWG 12 minimum) and run in non-metallic liquid tight and ENT conduit.</li> <li>• All electrical circuits and appliances shall conform to applicable national electrical codes.</li> </ul>
13.00		<p><b><u>DC ELECTRICAL SYSTEM:</u></b></p>
13.01	1	<p>Auxiliary battery bank with two (2) Lead acid deep-cycle 6Vdc batteries. Batteries shall be installed underbody in slide out weather resistant aluminum compartment. Compartment shall have box pan door with slam latch, flush mount handle, key lock, and Kwikkee heavy-duty slide assembly. The batteries will be separated from the chassis batteries for auxiliary equipment. Charging: Batteries must maintain constant charging via the vehicle charging system/alternator.</p> <ul style="list-style-type: none"> <li>• (2) 6 volt is recommended to maximize battery charge and to provide a longer cycling life.</li> <li>• (2) Electronic converter/charger, 80-amp minimum output.</li> </ul> <p>Converter/charger features:</p> <ul style="list-style-type: none"> <li>• Charges three banks of batteries at the same time.</li> <li>• UL listed for safety.</li> <li>• Manual reset circuit breaker.</li> <li>• Reverse battery protection.</li> <li>• Electronic current limiting.</li> <li>• High voltage protection.</li> </ul> <p>All DC electrical shall be controlled and monitored through the vehicle automation system. The POWER (home) screen shall display the chassis battery voltage and amperage load, auxiliary battery bank voltage and amperage load, and the communications battery bank voltage and amperage load.</p>
13.02	25	<p>6" LED neutral white flush mount ceiling light with polished bezel. Ceiling lights to be divided into three (3) zones and switched through automation controls. Vehicle automation system LIGHTING screen to have light on/off icon with indicators for each room. LIGHTING screen to also have mode icon to select between Half light and Full light.</p>
13.03	6	<p>Whelen C9 Series (or equal) SurfaceMax LED Scene Light. 12VDC with chrome flange, model number C9SL.</p> <p><b>NOTE:</b> Controlled through the vehicle automation system - no exceptions</p>
13.04		<p><b><u>12VDC WIRING REQUIREMENTS:</u></b></p> <ul style="list-style-type: none"> <li>• 2-gauge minimum copper stranded battery cable shall be used for 12Vdc main supply lines. All cable runs shall be full length, no splices. All cable terminals shall be staked and soldered. All cable shall be enclosed in convoluted polyethylene tubing and the ends of the cable shall be sealed with color-coded shrink-wrap identifying the function of the cable.</li> <li>• All added electrical branch circuits shall be protected from over-current by resettable circuit breakers appropriately rated for the load. Only circuit breakers shall be used in the installation of added electrical branch circuit wiring (plug type fuses are unacceptable).</li> <li>• Circuit breaker functions shall be identified by engraved or printed labels.</li> <li>• All added wiring for load runs of AWG 10, 12, 14, and 18, shall conform to MIL-W-16878/2 and/or UL1007/1569"</li> </ul>



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		<ul style="list-style-type: none"> <li>• All added wiring for load runs of AWG 8, shall conform to MIL-W-16878/3 and/or UL1028</li> <li>• Wire terminals for added circuits must conform to MIL-T-7928. Terminals shall be insulated, insulation grip, TYPE II, CLASS 2 and shall be crimped with tooling recommended by the terminal manufacturer.</li> <li>• All wiring shall be numbered or lettered on 6" centers minimum.</li> <li>• Wiring shall be protected from chafing and abrasion with convoluted polyethylene tubing (wire loom) as required.</li> <li>• Where wire passes through sheet metal, bulkheads and structural supports, plastic grommets shall be used to protect both wiring and wire looms.</li> <li>• All wire bundles shall be tied with trimmed nylon ties.</li> <li>• Extreme care shall be exercised to provide for easy serviceability of the system in future years.</li> <li>• Extreme care must be taken in the installation to avoid the engine manifold, engine exhaust, and muffler, which could expose the wiring to severe overheating during long periods of operation. Proper insulation and heat deflection panels must be installed in such areas.</li> <li>• A high-current 12Vdc system wiring schematic shall be provided.</li> <li>• These are the minimum acceptable 12Vdc wiring requirements.</li> </ul>
14.00		<b><u>EMERGENCY LIGHTING / SIRENS:</u></b>
14.01	1	Federal Signal siren (or equal) compatible for SS3000 Platinum controller as well as vehicle configuration with 9 low current lighting control switches.
14.02	1	Whelen SA315P high performance speaker, with bracket. <b>NOTE:</b> (or equal)
14.03	2	Whelen TLIR ION-T- Series™ Linear Super-LED® Red with clear outer lens & TIONFC chrome flange. <b>NOTE:</b> (or equal) Locate: GRILL
14.04	2	Whelen TLIB ION-T- Series™ Linear Super-LED® Blue with clear outer lens & TIONFC chrome flange. <b>NOTE:</b> (or equal) Locate: GRILL
14.05	10	Whelen M6 series, M6RC (or current model), Linear Super-LED lighthouse with internal flasher, RED LED's with CLEAR outer lens. Includes M6FC chrome flange. <b>NOTE:</b> Locate: Two (2) Above windshield Three (3) Street side Three (3) Curb side Two (2) Rear, upper and lower



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Item	Qty	
14.06	10	Whelen M6 series, M6BC (or current model), Linear Super-LED lighthouse with internal flasher, BLUE LED's with CLEAR outer lens. Includes M6FC chrome flange. <b>NOTE:</b> Locate: Two (2) Above windshield Three (3) Street side Three (3) Curb side Two (2) Rear, upper and lower
14.07	1	Custom fabricated bracket to mount emergency lights above windshield, painted to match body.
15.00		<b>AUDIO / VIDEO:</b>
15.01	2	Samsung 43" LED TV UN43TU7000FXZA UHD 4K Smart (or current model) with wall mount bracket. Product features: • Resolution 4K Ultra HD • (2) HDMI, (1) USB • Sound Output (2) Speakers 20W • DTV Tuner/ATSC / Clear QAM • Wi-Fi Ready, Smart TV • Dimensions: 37.9" x 22" x 2.4" (W x H x D), weight 31 lbs
15.02	2	HDMI input jack, wall plate and cable. <b>NOTE:</b> HDMI jack above counter top. Directly connected to TV.
15.03	1	Five (5) IP Perimeter Cameras. AXIS P1224-E (or current model) Miniature Network Camera. HDTV 720p resolution IP66 weather rated Wide angle 145° field of view Power over Ethernet • 1 - rear view • 1 - front view • 1 - left side view • 1 - right side view • 1 – above side entry door view Includes AXIS T8705 Video Decoder • Easily Display Video from IP Cameras • Supports 1080p Resolution @ 30 fps • Supports Multiple Frame Rates
15.04	1	JACK® model OA8500 Digital HDTV Antenna + Mount with SureLock™ DTV Signal Meter. No crank up, built in Amplifier and 360° rotation for improved reception.
16.00		<b>RADIOS:</b>
16.01		Primary 12Vdc power leads for communications radios shall be minimum 2-gauge copper stranded wire with soldered crimp-on end connectors (gauge based on radio requirements). Cables shall be enclosed in convoluted tubing and function identified with colored shrink-wrap. Power to radios shall be controlled through the vehicle automation system. <b>NOTE:</b> no exceptions



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Item	Qty	
16.02	2	<p>Prewire and make installation provisions for dual head communications radio. Installation includes:</p> <ul style="list-style-type: none"> <li>• NMO-style base on the roof or antenna raceway, as applicable.</li> <li>• LMR195 antenna cable routed to radio transceiver location in Carlon Carflex ENT conduit.</li> <li>• 12Vdc power routed to radio transceiver location.</li> </ul> <p><b>NOTE:</b> Customer supplied radios and locations: Motorola APX8500 with dual heads, tri-band antenna splitter VHF/UHF/700-800 with QMA input radio, supplied by LASD Cab Area</p> <ul style="list-style-type: none"> <li>• Qty. - Make/Model, Freq/Power Out/Trunk or Dash Mounted Workstation #1</li> <li>• Qty. - Make/Model, Freq/Power Out/Trunk or Dash Mounted</li> </ul>
16.03	4	<p>Additional antenna. Installation includes:</p> <ul style="list-style-type: none"> <li>• NMO-style base on the roof or antenna raceway, as applicable.</li> <li>• LMR195 antenna cable routed to radio transceiver location in Carlon Carflex ENT conduit.</li> </ul> <p><b>NOTE:</b> Install on each: VHF whip, 480Mhz whip, and 700/800 MHz whip (cap the three spare NMO mounts with Larson rain caps)</p>
16.04	2	<p>Single 3"H x 3"W x 12'L square aluminum tube antenna raceway on the roof of the apparatus. Antenna raceway will penetrate the roof at one location, to be determined. Includes the following:</p> <ul style="list-style-type: none"> <li>• 3" high x 3" long aluminum access cover at each antenna base location on the side of the tubing for access to antenna base and coax cable.</li> <li>• Access covers with watertight gasket and attached with four (4) stainless steel machine screws. Raceway tube to have nut-serts installed for access cover attachment.</li> <li>• Carlon Carflex ENT conduit routed from antenna raceway penetration location to radio transceiver locations.</li> </ul> <p><b>NOTE:</b> No exceptions to any of the antenna raceway requirements.</p>
17.00		<b><u>COMPUTER NETWORK AND EQUIPMENT:</u></b>
17.01	12	<p>RJ-45 Cat6 computer network jack with Cat6 cable routed through Carlon Flex-Plus ENT conduit or raceway (as applicable).</p> <p><b>NOTE:</b> Locations: One (1) Per workstation #1-#3 (Qty. 3) Four (4) Above counter top street side slide out. One (1) passenger front workstation Two (2) Dual network jacks located in Exterior charging station. (Qty.4) pre-wired to electronics equipment rack.</p>
17.02	1	Leviton 69270-U24 24-port Cat6 rack mount patch panel.



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Item	Qty	
17.03	1	<p>Cable Certification Report confirming that network wiring complies with Cat6 specifications.</p> <p><b>NOTE:</b> Certification report to be generated using Agilent Technologies WireScope 350 (or equivalent). Report must include the cable length for each CAT6 cable in the vehicle and must indicate that each cable passes the following test:</p> <ul style="list-style-type: none"> <li>• Attenuation (dB)</li> <li>• PowerSum NEXT (dB)</li> <li>• Return Loss (dB)</li> <li>• PowerSum ELFEXT (dB)</li> </ul> <p>Include a sample cable certification report with response - no exceptions.</p>
17.04	3	<p>Pre-wire and make installation provisions for customer supplied printer/copier/scanner.</p> <p><b>NOTE:</b> Two (2) LASD supplied printer and One (1) LADS supplied Live scan printer</p>
17.05	4	<p>Install customer owned computer.</p> <p><b>NOTE:</b> Two (2) Install LASD supplied Live Scan computers. Two (2) Install LASD supplied computers.</p>
17.06	1	<p>Prewired with installation provisions for LASD supplied 4G wireless router with single modem. Total of Seven (7) roof mounted NMO antenna base with rain caps: Six (6) MNO mounts are installed checker board style along the left and right of the MCP, about 2 feet apart. One MNO mount would be right in the middle of the MCP, this could be used for low band frequencies (CHP). Note: Roof mounted antennas, service contract, activation and configuration not included.</p> <p><b>NOTE:</b> Advise for cellular modem power required: 110V OR 12Vdc constant or switched power</p>
17.07	1	<p>Prewire with CAT6 cable from wireless router to the MDC</p> <p>Four (4) antennas in specific pattern/distance for each other for LASD MDC. Two of the smaller antennas would use the MNO mounts, the other two are integrated in one unit with fixed antenna cable. The cables are 10' long.</p> <p>*The wireless router/Communication rack must be located within reach of these two antennas.</p>
18.00		<b><u>MISCELLANEOUS ELECTRONICS:</u></b>
18.01		<p>Install customer supplied Mugshot system, includes:</p> <ul style="list-style-type: none"> <li>• Mugshot back drop screen</li> <li>• Camera system</li> <li>• Back drop screen light</li> </ul>
18.02	1	DSLIR camera mount on ceiling.
18.03	1	<p>Custom fabricated mounting system to secure 19" wide x 26.5" depth (24" useable depth) open framed electronics equipment rack. Rack to easily pull-out and rotate from its fixed position to allow full access to side and rear of rack mounted equipment.</p> <p>Includes:</p> <ul style="list-style-type: none"> <li>• Top fan panel, with four (4) 50 cfm ventilation fans</li> <li>• Vented front door with key lock.</li> <li>• One (1) 20-amp power strip with 6 outlets each.</li> </ul>



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Item	Qty	
19.00		<b><u>EXTERIOR STORAGE COMPARTMENTS:</u></b>
19.01	1	Single door underbody storage compartment with approximate interior dimensions 15" high x up to 48" wide x 25" deep constructed from 0.125" aluminum with all welded seams.
19.02	1	Exterior Charging Station, 48" wide x 18" high (minimum dimensions) with weatherproof exterior access door constructed from 0.125" aluminum with all welded seams and hinged at the bottom. Door to act as a work surface when open. <ul style="list-style-type: none"> <li>• Two (2) dual GFCI outlets</li> <li>• Four (4) USB outlets</li> <li>• Two (2) Dual network Cat6 outlets pre-wired to electronics equipment rack.</li> </ul> <b>NOTE:</b> Locate: Curb side
19.03		Compartments listed above will be constructed to the following specifications: <ul style="list-style-type: none"> <li>• Sweep out type bottoms with 1/2" drain holes.</li> <li>• 2" box pan doors and door frames fabricated from 0.125" aluminum.</li> <li>• Door frames shall be riveted to the body and welded to the compartments.</li> <li>• Compartments shall have an LED light that illuminates when the door is opened.</li> </ul> Compartment doors will be constructed to the following specifications: <ul style="list-style-type: none"> <li>• Stainless steel hinges attached with stainless machine screws.</li> <li>• Slam latches and flush mounted handles.</li> <li>• 0.100" bright polished aluminum diamond plate on interior surfaces fastened with stainless hardware.</li> <li>• All doors shall be sealed with industrial grade neoprene gasket.</li> </ul>
20.00		<b><u>MISCELLANEOUS OTHER:</u></b>
20.01	1	Automatic electric awning, up to 15' long with the following features: <ul style="list-style-type: none"> <li>• Cadet Grey acrylic fabric (other colors available on request)</li> <li>• Solid-state sensor automatically closes awning after detecting sustained winds</li> <li>• Exclusive Knee-Action Design prevents damage from sudden wind gusts</li> <li>• Heavy duty motor is fully contained in the roller tube, self-locks awning in travel position</li> <li>• Unique spring-arm mechanism automatically dumps accumulating rain water</li> </ul> <b>NOTE:</b> (or equal)
20.02	1	Heavy-duty Quadra Mfg. Bigfoot© four point fully automatic one-touch leveling system. (Or Department approved equal) Includes: <ul style="list-style-type: none"> <li>• Four (4) QEII-24 jacks with 17,000-lb. capacity each, 24" long with 18" stroke</li> <li>• Air ride dump valve</li> <li>• Fully automatic control panel with manual feature</li> <li>• Interlock through the vehicle automation system to prevent moving the vehicle with jacks deployed. Vehicle automation system to give audible and visual alert if ignition is turn to on position</li> </ul> <b>NOTE:</b> no exceptions.
20.03	2	5 pound dry chemical fire extinguisher.
20.04	2	Battery powered combination Carbon Monoxide and Smoke alarm.



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Item	Qty	
20.05	1	<p>Complete manual set, including the following (as applicable):</p> <ul style="list-style-type: none"> <li>• As-built specifications with interior and exterior drawings as used for production of the vehicle.</li> <li>• Chassis and body owner's manuals.</li> <li>• 12Vdc and 120Vac legends showing wire gauge, color, number and function.</li> <li>• 12Vdc high current wiring diagram illustrating the battery system, isolators, power converters, alternator, disconnect switches and control panels.</li> <li>• Roof top antenna placement drawing and legend identifying antenna placements and termination points.</li> <li>• Audio/Video cabling diagram.</li> <li>• Chassis and generator maintenance and service logs.</li> <li>• Battery maintenance information.</li> <li>• All individual component manuals and warranty registration cards as provided by component manufacturers. Customer is responsible for completing warranty cards and mailing them to manufacturers.</li> </ul>
20.06	1	<p>At time of delivery to LASD facility a factory trained employee of the manufacturer will provide up to eight (8) hours of orientation on manufacturer installed systems. Includes:</p> <ul style="list-style-type: none"> <li>• Vehicle automation system operation</li> <li>• Generator start up and shut down procedure</li> <li>• Stabilizer system operation</li> <li>• AC and DC electrical systems operation</li> <li>• HVAC systems operation</li> <li>• Audio/Video system operation</li> <li>• Awning operation</li> </ul>
20.07		<p>LDV warranty of one (1) year/12,000 miles, whichever comes first, for manufacturer's defects in materials and workmanship. Refer to LDV warranty statement for details of warranty coverage.</p> <p><b>NOTE:</b> Provide copy of warranty certificate with response – no exceptions.</p>
20.08		<p>Note: Project scope does not include certain tasks or costs that are the responsibility of the customer unless clearly specified as LDV supplied. These items include, but are not limited to:</p> <ul style="list-style-type: none"> <li>• Radio and telephone system programming.</li> <li>• Activation and service fees for cellular telephones, satellite telephones, satellite TV, satellite internet access.</li> <li>• Loading and configuring computer software.</li> </ul> <p>In the event of a discrepancy between the drawing and specification, the specification will supersede. LDV reserves the right to make substitutions of equal quality and specifications of those listed in this document.</p> <p>Some component models change frequently. In the event that a specified component model becomes unavailable at the time LDV attempts to source it, LDV will provide a replacement model with equivalent or better features, as agreed upon with the customer.</p>