Specification Section – Code AG004 / High Cube System with Chassis

1 **Ford E450 16' hi-cube van, 14500 GVWR, 7.3L gas engine. See detailed specs for full vehicle specifications, to which Aries includes:**
   1 Roadside DOT-rated safety kit including fire extinguisher, triangles, and flares
   2 Full width rear bumper steps, high grip tread
   1 Backup alarm
   2 Adjustable LED floodlights, mounted above rear doors

Chassis
Ford E450 Super Duty cutaway chassis
176" wheelbase, 118" cab-to-axle
14,500lb gross vehicle weight rating
Front GAWR 5000lb, coil spring suspension
Rear GAWR 9800lb, multi-leaf suspension
Dual rear wheels
Front and rear shock absorbers
(6) tires, LT225/75R16E BSW AS
(6) wheels, 16" x 6" steel disc 8-hole
Power steering
Hydraulic front and rear disc brakes
12V 210A alternator
12V 750CCA automotive battery
ICC running lights plus standard lights including stop, turn, reverse, plate, and 4-way
55g fuel tank, driver's side fill
Daytime running lights

Drivetrain
7.3L V8 gas engine, 300hp @ 3750rpm, 425lb·ft @ 3250rpm
Differential ratio 4.56
Dry type air filter
Spin on type oil filter, disposable type
Heavy-duty cooling system
Torqshift automatic 6-speed transmission with overdrive and auxiliary oil cooler
Engine block heater

Cab
Fresh air heater and defrosters
Cab air conditioning
AM/FM radio with rear camera display
Dual high back bucket seats with 3-point seatbelts
Sun visors and arm rests, driver and passenger seats
Intermittent windshield wipers with washers
12V dome light
Dual rear view mirrors, external, manual swing-away type with standard top and convex bottom section, retractable and adjustable
Tilt steering wheel
Power locks and windows
Cruise control

<u>High Cube Walkthrough Body</u>
Aluminum construction
84" interior clear height
96" exterior width
Minimum interior load space of 185"
Flat floor with undercoating
Rear viewing camera mounted above rear doors
Rear door grab handles, qty.2
Full opening rear doors with 3 hinges per door, cam lock, and positive hold-open clamps at head height
Aerodynamic wind fairing with full height walkthrough sliding lockable door to cab area

1 7,000W, gas powered, commercial grade generator, 120V, 60 Hz, with electric local and remote start/stop control to include:
- 1 OEM Generator enclosure with airflow separating devices
- 1 Hinged, vented cover with lock mechanism and air spring supports
- 1 Exhaust system with internal muffler
- 1 Auxiliary battery, 12V DC and case
- 1 DC converter, 45A
- 1 Electric distribution panel and circuit breaker box, 12-space
- 1 Electric supply transfer system, house power or generator system, automatic, 50A
- 1 35' cord and house power receptacle with cover
- 1 System engineering panel to include:
  - 1 Generator Voltage and frequency meter, digital
  - 1 Generator start/stop switch
  - 1 Generator hour meter

1 High Cube "Command Center" control room interior including:
- 1 Lonplate non-skid floor covering
- 1 Pewter Formica laminated surface wall covering
- 1 White Kemlite embossed ceiling cover
- 1 Bulkhead wall with sliding Plexiglas sliding window
- 1 Low profile roof mounted air conditioner, 11000 BTU with heat strip
- 1 Modular control center, 19" rack mounted above the bulkhead window
  - 1 3U storage drawer for controllers
- 1 Ergonomically contoured and finished control desk
- 1 Standard electrical upfitting package
- 1 LED lighting system
  - 1 LED dome light with timer and switch by walkthrough door
- 1 Operator chair, swivel with casters
- 1 Fire extinguisher, 10lb, 4A60 B:C rating, OSHA/DOT-approved

1 High Cube equipment room interior including:
- 1 Lonplate non-skid floor covering
- 1 Light gray Kemlite laminated surface wall covering
- 1 White Kemlite embossed ceiling cover
- 1 Standard electrical upfitting package
- 1 LED lighting system
  - 1 LED dome light with timer and switch by rear body door
- 1 Set equipment storage hooks and tie down rings, shipped loose

1 Work bench with Lonplate worktop and vise
  1 Storage shelves over work bench with light underneath
1 Downhole pole storage brackets, door mounted

1 19" LCD flat panel monitor, TV/PC viewing, mounted to control room desktop

1 Aries VL5000 video data display including:
1 Data Display control module, panel mounted
1 Alpha/Numeric Full QWERTY Keyboard for video titling and report data input for VL5000 Display
1 Set of interconnect cables

1 Digital Video Recorder system, including:
1 Modular control center, 19" rack mount location
1 Unit to compress video in MPEG4 format
1 Mini USB keyboard for recording function control
1 16GB USB flash drive
1 Set of interconnect cabling

1 Audio recording microphone, swivel neck

1 Aries Master Controller system, multi-conductor, including:
1 System power supply and control unit, 19" rack mount
1 Pegasus system control software, loaded on USB flash drive
2 Wireless Xbox One X style handheld controller
  1 Wire for direct hook up / charging of Xbox One X style controller

1 Wall mounted USB port for controller

1 Aries PE3530 Pathfinder series zoom, pan & tilt camera w/ high-intensity LED lighting and integrated self-cleaning lens wiper system, including:
Pathfinder zoom pan and tilt camera w/ multi-axis infinite rotation
Integrated on-demand self-cleaning lens wiper system
120X zoom (10X optical & 12X digital)
High-resolution 480(V) x 720(H) output
Auto-focus with manual override
Auto-iris with manual override
Maintenance-free forward-facing white LED lighting located in the camera forks
Maintenance-free directional white LED lighting that follows the camera's field of view
White balance optimization with (4) selectable settings
High-sensitivity camera sensor for low-light applications
"Starlite" low-light level amplification feature with (4) user selectable amplification steps
Automatic home feature with forks at side of camera head
"One Touch Scanning" feature with (2) user selectable continuous joint scan presets
"Quick Look" preset view positions (6) (Up, Down, Right, Left, Lat R, Lat L)
Robust, environmentally sealed camera for use in live pipe, including:
  Scratch-resistant sapphire lens window
  Camera recessed behind forks for frontal impact protection
  Camera housing with hardened metal finishes and non-corrosive metals
  Recessed fasteners & no camera protrusions

Proportionately slowed camera movements when zooming
Fast-check internal pressure monitoring system
On-screen camera diagnostics functions including:
Camera internal pressure, temperature, operating hours, internal power regulated voltage value, camera model, serial number, firmware revision, control error recognition, LED current value.
1 Camera storage and transport case
1 Camera nitrogen recharge kit

1 Aries TR3300 Pathfinder steerable self-propelled transporter for relined 6” to 15” lines, including:
1 Tractor assembly with continuous duty drive motors
6 Rubber wheels, 3” diameter
4 Rubber wheels, 4” diameter
4 Extended hub rubber wheels, 4” diameter
4 Extended hub rubber wheels, 5” diameter
1 Manual camera lifting mechanism
1 Rear viewing camera with LED lighting
1 512 Hz detachable locating beacon
1 Auxiliary detachable light head
1 Storage and transport case
1 Set maintenance parts

1 Pathfinder cable and reel assembly, with features including:
1000’ of lightweight low friction multi-conductor cable
Heavy-duty frame, drum and motor assembly with clutch and cable level wind assembly
Footage meter with local LCD footage display and encoder for footage signal to remote video data display system
Emergency hand crank arm
Spare cable termination kit
Sealed continuous contact collector assembly, 12 slip rings minimum
Telescoping swivel cable guide roller assembly
1 Pathfinder system test cable
1 Reel controller with desktop mounting devices
1 Interconnect cable to TV system electronics
1 Drip pan with drain

1 Mounting bridge with tractor storage underneath

1 Cable manhole guide system including:
1 Manhole top roller assembly
1 Insertion and extractor pole assembly and tractor adapter
3 Quick lock extension poles
1 Manhole bottom roller assembly and adapter hook
5 Quick lock extension poles

2 Operation / maintenance and spare parts manuals
1 Maintenance tool kit
1 Delivery of system
2 Days of training
1 One year warranty, TV system