CUES

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Wednesday, June 24, 2015

Dave Wright
Bellevue, City of
2901 115th Ave. N.E.
Bellevue, WA 98004

Re: New 2015 Cues van

Dear Dave: .

Here is the pricing you requested for a replacement CCTV vans. Please see attached component lists. Brief summary of packages listed here.

2015 CCTV van 1   *ASSET # 4281*

- Ford F-550 with Attic storage area over cab – diesel
- Ford manual re-gen option
- Onan QD 7.5kw generator w/ vertical stack exhaust
- Back up camera on truck
- Evolution 3 interior with side door
- Additional LED lighting on 3 side walls with dimmer switch
- LED light and 120v. outlet in overhead attic storage
- LED lighting and 120v. outlet in hose reel cabinet
- 4 CREE exterior spotlights
- Larger bench space in equipment room
- Cover for pull out tool drawer
- Laptop computer docking stations per Bellevue spec
- QZ2 pole camera
- MP plus push camera system
- 5 drawer Snap On tool chest
- Lockable transporter storage drawer in bumper
- SEE bumper system
- OZ2 pan and tilt zoom camera
- Steerable Pipe Ranger with rear view camera
- Electric lift
- 32" rear monitor in Bulkhead wall
- Wireless receiver to work with MP+ or QZ2
- Ultra Shorty 21 6"-15"
- Summit wireless operating system
- Auto payout reel w/ 1,500' cable
- GXP– transfer of your existing license
- LAMP2 lateral launcher with plastic push cable package
- Lateral pan and tilt camera
- Multi frequency locator
- four 22" monitors per special instructions
- Delivery

- 3 days training

Price: $386,854 each

2015 CCTV van 2 *ASET # 4338*
- Ford F-550 with Attic storage area over cab – diesel
- Ford manual re-gen option
- Onan QD 7.5kw generator w/ vertical stack exhaust
- Back up camera on truck
- Evolution 3 interior with side door
- Additional LED lighting on 3 side walls with dimmer switch
- LED light and 120v. outlet in overhead attic storage
- LED lighting and 120v. outlet in hose reel cabinet
- 4 CREE exterior spotlights
- Larger bench space in equipment room
- Cover for pull out tool drawer
- Laptop computer docking stations per Bellevue spec
- 5 drawer SNAP ON tool chest
- Lockable transporter storage drawer in bumper
- SEE bumper system
- OZ2 pan and tilt zoom camera
- 32" rear monitor in Bulkhead wall
- Wireless receiver to work with MP+ or QZ2
- Ultra Shorty 21 6"-15"
- Summit wireless operating system
- Auto payout reel w/ 1,500' cable
- GXP– transfer of your existing license
- LAMP2 lateral launcher with plastic push cable package
- Lateral pan and tilt camera
- Multi frequency locator
- QZ 2 pole camera per attached component list
- MP Plus push camera per attached component list
- four 22" monitors per special instructions
- Delivery
- 3 days training

Price: $354,046

Total for both truck	$740,900
2 truck discount	-$20,000
Trade in for 2003 truck	-$40,000

Grand total $680,900

66,728.20   @ 9.8% TAX
$ 747,628.2c

FOB: Destination
Terms: Net 30
Delivery: 90-120 Days ARO

Please feel free to call me with any questions.

Sincerely,

Gillian Wilson
Cues NW Territory Manager
cc. Paul Stenzler

Specifications For: BELLEVUE, WA

HIGH CUBE MOUNTED TV INSPECTION SYSTEM – TRUCK #1 *# 42-81*

1   FORD F-550 DIESEL CAB CHASSIS 201" WB 2X4 CHASSIS
- 1   6.7L OHV 32-Valve V8 Power Stroke Diesel Engine Including:
  - 1   200 Amp HD Alternator
- 1   Torqshift 6-Speed Selectshift Automatic Transmission with OD including:
  - 1   Tow / Haul Mode
- 1   4.10 Axle Ratio
- 1   19,500 lb. GVWR
- 1   201" Wheel Base
- 1   HD Vinyl 40 / 20 / 40 Split Bench Seat with:
  - 1   Center Armrest
  - 1   Cupholder
  - 1   Storage Area
- 1   12-Volt Light in Cab Area
- 1   Cab Air Conditioner
- 1   AM / FM Radio
- 1   manual re-gen

1   16' CARGO BOX FOR CAB/CHASSIS
- 1   .040 Aluminum Pre-Painted White Side Sheets
- 1   LED Light Package Includes Body Clearance and Stop / Tail / Turn
- 1   Full Width Barn Doors with CAM (Pipe) Locks on Each Door
- 2   Laminated Steel Lock
- 1   Kemlite Covering on Inside Rear Doors
- 1   .032 Aluminum One Piece Roof Sheet Eliminates Water Entry Concerns
- 1   Back Up Alarm

1   CAB OVER STORAGE AREA - FINISHED STORAGE AREA

1   LED LIGHT AND OUTLET MOUNTED IN FINSHED ATTIC SPACE

1   BACK-UP CAMERA SYSTEM [CHASSIS]

1   TRANSPORTER/CAMERA LOCKABLE STORAGE COMPARTMENT WITH NOTCH IN REAR DOOR THRESHOLD OF BODY FOR TV CABLE TO PASS THROUGH TO TRANSPORTER STORAGE DRAWER
- 1   Lockable Storage Compartment for Camera and Transporter
- 1   Sliding Drawer
- 1   Notch in rear door threshold of body for TV cable to pass through to transporter storage drawer

1   SAFE ENTRY/EXIT BUMPER
- 1   Three (3) Steps Evenly Spaced
- 1   Bottom Steps Fold Up for Ground Clearance
- 1   One (1) Fold - Away Safety Grab Handles

1   KICKPLATE 2 DRAWER ALUMINUM STORAGE WITH WORKTOP

1   TV HIGH CUBE VAN EXTERIOR LIGHTING & CONTROL ROOM - EVO 3.0 TO INCLUDE:

2	Amber LED Strobe Warning Beacons
2	Adjustable LED Floodlights Rear of Vehicle Area Illumination

Control Room Interior:

1	Lonseal Lonplate Flooring
1	Kemlite Wall & Ceiling Covering
1	Bulkhead Wall With Passage Door From Control Room to Equipment Room
1	Tinted Viewing Window in Bulkhead Wall
1	Tinted Viewing Window in Bulkhead Door
1	Above Desk Control Console with Rack Mount for Electronic Equipment
1	Desktop / Work Area
1	12V High Intensity LED Light Fixture
2	Electrical Outlet with Dual Receptacles
1	Fire Extinguisher with Bracket, 10BC Rating
1	Operators Chair, Swivel With Casters
1	Breaker Box Storage Area with Locking Positive Latch
1	Battery Powered Carbon Monoxide Alarm

1   ROOF TOP AIR CONDITIONER, 13,500 BTU WITH HEAT STRIP

1   CURBSIDE DOOR WITH FOLD-DOWN STEPS

1   EXTENDED BENCH SEAT IN CONTROL ROOM

1   STORAGE CABINET UNDER CONTROL ROOM DESKTOP

1   LED AMBIENT LIGHTING PACKAGE WITH DIMMER SWITCH IN VIEWING ROOM

1   TV HI-CUBE VAN EQUIPMENT ROOM INTERIOR - EVO 3.0 TO INCLUDE:

1	Lonseal Lonplate Flooring
1	Kemlite Wall & Ceiling Covering
1	Electrical Outlet with Dual Receptacles
1	12V High Intensity LED Light Fixture
1	15 Minute Courtesy Timer Located at Rear Door Area for 12V LED Interior Lights

1   LONSEAL LONPLATE FLOORING IN EQUIPMENT ROOM

1   5 DRAWER TOOL CHEST –SNAP ON – MOUNTED UNDER VIEWING ROOM WINDOW – OPERATORS

DESKTOP WILL BE 3" HIGHER WITH THIS TOOL CHEST

1   20-GALLON WASHDOWN SYSTEM TO INCLUDE:

1	20-Gallon Fresh Water Tank
1	Electric Water Pump
1	Retractable Hose Reel with 25' Water Hose and Nozzle

1   UPPER AND LOWER STORAGE CABINET IN EQUIPMENT ROOM

1	Lower Storage Cabinet / Work Top with Sink and Faucet
1	Upper Wall Mounted Storage Cabinet
1	**LED light and outlet installed in washdown cabinet**

1   ADDITIONAL LIGHT AND OUTLET

1	Fluorescent Light and Fixture Mounted Above Work Top

1   32" REAR FLAT SCREEN MONITOR MOUNTED IN BULKHEAD WALL
- 1   Flat Screen Monitor
- 1   Cable Assembly - Video Monitor to Monitor in Control Room
- 1   Electrical Outlet

1   7500 WATT QUIET DIESEL ONAN GENERATOR
- 1   120 Volt 60 HZ 7500 Watt (Minimum) Commercial Grade "Quiet" Generator
  - 1   Diesel Powered
  - 1   Electric Start

1   GENERATOR COMPARTMENT [UNDER CHASSIS MOUNT]
- 1   Generator Remote Start / Stop Cable Assemble
- 1   Generator Storage Compartment with Lockable External Access Door
- 1   Commercial Power Supply Receptacle, 25' Cord, and Plug
- 1   Electrical Supply Center with Circuit Breaker Box
- 1   Commercial power and Generator Power Connectors
- 1   Automatic Power Transfer Switch

1   VERTICAL EXHAUST FOR GENERATOR

1   DIGITAL ENGINEERING PANEL
- 1   Voltage Readout, Power Supply
- 1   Hertz Readout, Power Supply
- 1   Generator Hour Readout
- 1   Remote Generator Start / Stop Control Switch

1   P&T ZOOM M/C CAMERA
- 1   Solid State Color Sewer TV Camera
- 1   Pan & Rotate Camera Head, 40:1 Zoom Ratio, 10x Optical Zoom, 4x Digital Zoom
- 1   NTSC Color Standard with 4x Light Integration
- 1   Camera Lighting System for 6" through 72" lines
- 1   Camera Transportation and Storage Case

1   STEERABLE CAMERA TRANSPORTER, WHEELED, v2
- 1   Steerable Unit Designed to Turn 360 Degrees Within Its Own Radius
- 1   Two (2) Speed Transmission to Maximize Torque in Large Diameter Pipe
        With Manual Shifter on Camera Carrier
- 1   Unit Shall Have Forward, Free Wheel, and Power Reverse
- 1   Set of Six (6) Driven Rubber Wheels to Inspect 8" Pipe
- 1   All Six (6) Wheel Drive Transporter Assembly to Include:
  - 1   Motor & Enclosed Drive Train
- 1   Tip Up Rear 12-Pin Connector
- 1   Transporter Control Unit

1   10" - 15" RUBBER TIRE KIT, v2

1   18"+ PNEUMATIC TIRE KIT, v2

1   ELECTRIC CAMERA LIFT

1   REAR-VIEW CAMERA FOR STEERABLE LARGE TRANSPORTER
- 1   Color NTSC Camera
- 1   Lightring with (12) Solid State White LEDs

1   21" TRAC TRANSPORTER M/C TO INCLUDE:

1   Y Eliminator

1   **8"-15" EXTENDERS FOR 21" TRAC TRANSPORTER**

1   **SPARE PARTS KIT FOR TRAC TRANSPORTER TO INCLUDE:**
    1   Additional Chain Links And Rubber Cleats

1   **12/5/4 ADAPTER CABLE**

1   **1500' CABLE ASSEMBLY, M/C 12PIN METAL**
    1   1500' Gold Multi Conductor Kevlar Fiber Armored Combination TV Transmission / Tow
Cable
    1   .450 Diameter
    1   Metal Splice Chamber with Pigtail
    1   Cable Strain Relief

1   **TV REEL ASSEMBLY, MECHANICAL FOOTAGE FOR SUMMIT .450 CABLE W/AUTO PAYOUT**
    1   Black Thermoplastic Powder Coated Frame
    1   Power Levelwind & Multi Ratio Manual Transmission
    1   Automatic Cable Payout System
    1   Footage Meter with Local Counter and Remote Electronic Counter
    1   Transmission Control at Viewing Station
    1   Local Reel Mount Electrical and Mechanical Control
    1   Sealed Continuous Contact Collector Assembly
    1   Removable Drip Pan for Cleaning

4   **22" (MINIMUM) FLATSCREEN COLOR INDUSTRIAL TV MONITOR NTSC / PAL COLOR
STANDARDS-** The left side would have 2- 22 inch monitors stacked vertically for the computer (one for GXP, and one for Mapshot), and the right side would be 2- 22 inch monitors stacked vertically (one for mainline video, one for lateral video). The two pairs should be mounted far enough apart that a clear line of sight is maintained through the window to the back of the truck. Both sets of monitors should be mounted at the eye level of a seated operator.

1   **PCU ASSEMBLY [RACK MOUNT]**

1   **CCU ASSEMBLY [RACK MOUNT]**
    1   Alpha Numeric Information Display, with Multi Paging and Defect Coding
    1   Remote "QWERTY" Keyboard for Data Entry
    1   On Screen Footage Display
    1   WRC and PACP Codes

1   **TEST CABLE**

1   **WIRED USB CONTROLLER**
    1   Joystick Control for Pan and Tilt Zoom Camera to Include:
        1   360 Degree Rotate
        1   330 Degree Optical Pan
    1   Joystick Control for All Steering Functions & Forward / Reverse Directions for Transporter
    1   Camera Lift Control for Optional Electronic Camera Lift
    1   All Other Controls for Camera to Include:
        1   Camera Iris and Focus Override & Zoom
        1   Camera Lights & Shutter Control for Light Enhancement
        1   Camera Diagnostics & Auto Home

1   All Reel Controls to Include: Retrieve, Release, and Variable Speed [Excluding Dolly Systems]

1   WIRELESS CONTROLLER
- 1   Joystick Control for Pan and Tilt Zoom Camera to Include:
  - 1   360 Degree Rotate
  - 1   330 Degree Optical Pan
- 1   Joystick Control for All Steering Functions & Forward / Reverse Directions for Transporter

- 1   Camera Lift Control for Optional Electronic Camera Lift
- 1   All Other Controls for Camera to Include:
  - 1   Camera Iris and Focus Override & Zoom
  - 1   Camera Lights & Shutter Control for Light Enhancement
  - 1   Camera Diagnostics & Auto Home
- 1   Cruise Control to Set Speed of the Transporter for Hands Off Operation
- 1   All Reel Controls to Include: Retrieve, Release, and Variable Speed [Excluding Dolly Systems]

1   8.7" MINI KEYBOARD

1   INSTALL CUSTOMER SUPPLIED COMPUTER WITH MOUSE, KEYBOARD WITH GXP SOFTWARE AND PRINTER

1   HEWLETT 90 WATT DOCKING STATION – A7E32UTABA

1   USB – 3.0 HUB MOUNTABLE – STARTECH ST-ST7300USBM

1   SELF PROPELLED LATERAL INSPECTION / EVALUATION SYSTEM, WHEELED, FOR 6" - 30" MAINLINE AND 3" - 8" LATERAL INSPECTION, TO INCLUDE:
- 1   Solid State Color Sewer TV Camera with:
  - 1   Pan & Rotate Camera Head, 40:1 Zoom Ratio, 10x Optical Zoom, 4x Digital Zoom
  - 1   NTSC Color Standard, 236 degree tilt/rotation, 285 degree optical pan
  - 1   Auto-centering feature, Automatic Focus, Automatic Iris
  - 1   Remote focus and Iris Override
  - 1   4x Light Enhancement Feature
- 1   Mini Fixed Orientation Color Camera, 1.50" Maximum Diameter x 3.5" Maximum Length with:
  - 1   Built In Light Ring with Solid State White LED Lighting
  - 1   Auto Upright image
  - 1   Built in Sonde transmitter for locating.
  - 1   Camera Head Assembly with Rotation Positioning
- 1   Push Cable Drive Assembly - Two-Speed Extend / Retract Camera Positioning
- 1   Self Propelled Launcher Robot with Freewheel, Forward, and Power Reverse
- 1   Wheeled Transporter Not to Exceed 32.2" Length from Front of the Pan, Tilt, Zoom Camera to the Rear of the Launcher Robot
- 1   100 ft. Fiberglass Push Cable Assembly
- 1   Electric Reel with Slipring and Clutch for Powered Retrieve of Push Cable
- 1   Control System to Include Launcher / Self Propelled Robot Control with:
  - 1   Extend / Retract, Left / Right Rotation, Cable Drive Speed
- 1   Rear tip-up connector
- 1   Interconnect Cable for Launcher to Push Cable
- 1   Interconnect Cable for Control System to Power Control Unit
- 1   Single-point quick wheel removal system
- 1   6 each 3.5" diameter tires for 6" pipe
- 1   6 each 4.375" diameter tires for 8" pipe
- 1   6 each 5" diameter tires for 10"-15" pipe
- **1   Will use 22" monitor – see monitor section for layout description**
- 1   Rear- View Camera

1   Lightring with (12) Solid State White LEDs

1   QUICK CABLE LOCK PIGTAIL COUPLER KIT

1   WIRELESS "RECEIVER" PACKAGE FOR TV UNIT TO INCLUDE:
     1   Wireless Receiver, 2.4 GHz with Omni-Directioinal Antenna
     1   Wireless Receiver Power Supply
     1   A / B Video Switch
     1   Outlet
     1   Cables
     1   Instruction Sheet

1   (CH304-1) WIRELESS CONTROL UNIT WITH TEXT WRITING, OBSERVATION CODING, DIGITAL RECORDING AND INDUSTRIAL GRADE MONITOR IN AN INJECTION MOLDED ENCLOSURE TO INCLUDE:
     1   8.4" industrial grade, optically bonded, sunlight viewable, monitor with anti-reflective properties and LED backlighting
     1   Operator Interface with controls for all camera functions
     1   Video Titling to include multiple predefined and customizable screens
     1   Digital video recording features video recording and playback and records screenshot picture images
     1   A USB port for transferring digital video and still images directly from the MPlus+ Control Unit to a PC
     1   Control Unit quick bracket mount for attaching to the coiler with hands free locking
     1   System Interface connector features Video, Audio, distance counter quadrature and 12VDC outputs and a Video input
     1   Built-in Li-Ion Battery with advanced charging technology for 4 hours of continuous use
     1   Universal AC power input 85-264 volt AC, 50/60 Hz, or 12 Volt DC Power Source

1   (CH300) STAINLESS STEEL COILER TO INCLUDE:
     1   Heavy 18 gauge and corrosion resistance Stainless Steel construction
     1   Adjustable height handle for portability with cam locks and button stops
     1   Large 10" durable wheels for portability and a balanced footprint for stability
     1   Quick-Connect allows Control Unit mounting with 3 axes adjustability
     1   Adjustable coiler brake
     1   Integral distance sensor

1   ACCESSORY KIT TO INCLUDE:
     1   Sunshield for enhanced sunlight viewability (CH083)
     1   10 ft interconnect cable for connecting the coiler to the control unit (CH070)
     1   AC power cord for 85-264 volt AC, 50/60 Hz, operation (165006)
     1   An SD to USB card reader for convenient PC connectivity (EC2077)
     1   A USB A to B cable for DVR to PC connectivity (EC2385)
     1   Accessory bag for storage (CH061)

1   200' MINI SYSTEM PUSH CABLE ASSEMBLY
     1   Push Cable with Durable Hytrel Jacket and Advanced Fiberglass Rod

1   SELF-LEVELING COLOR CAMERA HEAD, NTSC TO INCLUDE:
     1   1 1/2" Stainless Steel Camera head designed for 2" to 12" Pipe
     1   512 Hz integral sonde
     1   12 high intensity LED's

1   5.8' - 24.5' POLE MOUNTED CAMERA WITH ZOOM TO INCLUDE:
     1   Compact High Resolution Zoom Camera Assembly with:
          1   420:1 (35 Optical / 12 Digital) Zoom
          1   Built In Light Enhancement for Viewing in Ultra Low Light Conditions
          1   Camera Video Module w/ User Selectable Built In Video Image Stabilization

1   Carbon Fiber Telescoping Pole 5.8' - 24.5' with:
- 1   Low Profile Lock handles
- 1   One (1) Hand Pole Adjustment

1   Hand Control Unit for Lights and camera Functions
1   Camera Mount Assembly with Swivel Adjustment
1   Video / Power Cable Assembly
1   Calibrated Pipe Diameter Guide with Spring Stabilizer Rod
1   Padded Lockable Storage Case with Rollers and Extend Handle

1   LCD DISPLAY WITH DVR SD UNIT FOR WIRELESS POLE CAMERA
- 1   6.4" LCD Screen
- 1   DVR SD
- 1   Mounting Bracket
- 1   Video / Audio & Power Cables
- 1   Integrated Wireless Video / Audio Transmitter [2.4 GHz] with Antenna

1   VEST & BATTERY KIT FOR POLE CAMERA TO INCLUDE:
- 1   ANSI / ISEA 107-2004 Class 2 Adjustable Hi-Visibility Safety / Battery Vest with:
  - 1   Padded Shoulder Supports
- 1   Digital Media Case with Adjustable Sun Shade
- 1   Rechargeable Battery
- 1   Battery Charger

1   MANHOLE TOPROLLER ASSEMBLY, TV ONLY

1   MANHOLE ADAPTER CLAW HOOK

6   RETRIEVAL/DOWNHOLE POLE ASSEMBLY

1   INVERT ROLLER ASSEMBLY

1   RETRIEVAL HOOK

1   MULTI CONDUCTOR TV ONLY TOOL KIT
- 1   Milliampmeter Tool
- 1   Electrical Tape
- 1   Needle Nose Pliers
- 1   Six-In-One Screwdriver
- 1   6" Adjustable Wrench
- 1   Anti Seize Grease
- 1   9-Piece Allen Wrench kit
- 1   Solder Iron Kit
- 1   Industrial Pliers
- 1   5/32 T-Handle Hex Wrench
- 1   Multi Conductor TV Only Operation Manual
- 1   Parts Catalog
- 1   Cable Repair Kit DVD
- 1   TV Only Training DVD

1   TRAINING, ON-SITE (THREE DAYS)

1   TRUCK DELIVERY-WASHINGTON

OPTIONAL ITEMS
[NOT INCLUDED IN BASE QUOTE]

ITEM 1:

TRUCK

ITEM 2: 1 F550 FULL HEIGHT CONVERSION BETWEEN CAB AND VIEWING ROOM (Optional) – WILL ELIMINATI ATTIC STORAGE AREA

HIGH CUBE MOUNTED TV INSPECTION SYSTEM – TRUCK #2 # 4378

1 FORD F-550 DIESEL CAB CHASSIS 201" WB 2X4 CHASSIS
    1   6.7L OHV 32-Valve V8 Power Stroke Diesel Engine Including:
        1 200 Amp HD Alternator
    1   Torqshift 6-Speed Selectshift Automatic Transmission with OD including:
        1   Tow / Haul Mode
    1   4.10 Axle Ratio
    1   19,500 lb. GVWR
    1   201" Wheel Base
    1   HD Vinyl 40 / 20 / 40 Split Bench Seat with:
        1   Center Armrest
        1   Cupholder
        1   Storage Area
    1   12-Volt Light in Cab Area
    1   Cab Air Conditioner
    1   AM / FM Radio
    1   manual re-gen

1 16' CARGO BOX FOR CAB/CHASSIS
    1   .040 Aluminum Pre-Painted White Side Sheets
    1   LED Light Package Includes Body Clearance and Stop / Tail / Turn
    1   Full Width Barn Doors with CAM (Pipe) Locks on Each Door
    2   Laminated Steel Lock
    1   Kemlite Covering on Inside Rear Doors
    1   .032 Aluminum One Piece Roof Sheet Eliminates Water Entry Concerns
    1   Back Up Alarm

1 CAB OVER STORAGE AREA - FINISHED STORAGE AREA

1 LED LIGHT AND OUTLET MOUNTED IN FINSHED ATTIC SPACE

1 BACK-UP CAMERA SYSTEM [CHASSIS]

**1 TRANSPORTER/CAMERA LOCKABLE STORAGE COMPARTMENT WITH NOTCH IN REAR
DOOR THRESHOLD OF BODY FOR TV CABLE TO PASS THROUGH TO TRANSPORTER
STORAGE DRAWER**
    1   Lockable Storage Compartment for Camera and Transporter
    1   Sliding Drawer
    1   Notch in rear door threshold of body for TV cable to pass through to transporter storage
        drawer

1 SAFE ENTRY/EXIT BUMPER
    1   Three (3) Steps Evenly Spaced
    1   Bottom Steps Fold Up for Ground Clearance
    1   One (1) Fold - Away Safety Grab Handles

1 KICKPLATE 2 DRAWER ALUMINUM STORAGE WITH WORKTOP

1 TV HIGH CUBE VAN EXTERIOR LIGHTING & CONTROL ROOM - EVO 3.0 TO INCLUDE:

2	Amber LED Strobe Warning Beacons
2	Adjustable LED Floodlights Rear of Vehicle Area Illumination

Control Room Interior:

1	Lonseal Lonplate Flooring
1	Kemlite Wall & Ceiling Covering
1	Bulkhead Wall With Passage Door From Control Room to Equipment Room
1	Tinted Viewing Window in Bulkhead Wall
1	Tinted Viewing Window in Bulkhead Door
1	Above Desk Control Console with Rack Mount for Electronic Equipment
1	Desktop / Work Area
1	12V High Intensity LED Light Fixture
2	Electrical Outlet with Dual Receptacles
1	Fire Extinguisher with Bracket, 10BC Rating
1	Operators Chair, Swivel With Casters
1	Breaker Box Storage Area with Locking Positive Latch
1	Battery Powered Carbon Monoxide Alarm

1   ROOF TOP AIR CONDITIONER, 13,500 BTU WITH HEAT STRIP

1   CURBSIDE DOOR WITH FOLD-DOWN STEPS

1   EXTENDED BENCH SEAT IN CONTROL ROOM

1   STORAGE CABINET UNDER CONTROL ROOM DESKTOP

1   LED AMBIENT LIGHTING PACKAGE WITH DIMMER SWITCH IN VIEWING ROOM

1   TV HI-CUBE VAN EQUIPMENT ROOM INTERIOR - EVO 3.0 TO INCLUDE:

1	Lonseal Lonplate Flooring
1	Kemlite Wall & Ceiling Covering
1	Electrical Outlet with Dual Receptacles
1	12V High Intensity LED Light Fixture
1	15 Minute Courtesy Timer Located at Rear Door Area for 12V LED Interior Lights

1   LONSEAL LONPLATE FLOORING IN EQUIPMENT ROOM

1   5 DRAWER TOOL CHEST --SNAP ON – MOUNTED UNDER VIEWING ROOM WINDOW – OPERATORS

DESKTOP WILL BE 3" HIGHER WITH THIS TOOL CHEST

1   20-GALLON WASHDOWN SYSTEM TO INCLUDE:

1	20-Gallon Fresh Water Tank
1	Electric Water Pump
1	Retractable Hose Reel with 25' Water Hose and Nozzle

1   UPPER AND LOWER STORAGE CABINET IN EQUIPMENT ROOM

1	Lower Storage Cabinet / Work Top with Sink and Faucet
1	Upper Wall Mounted Storage Cabinet
1	**LED light and outlet installed in washdown cabinet**

1   ADDITIONAL LIGHT AND OUTLET

1	Fluorescent Light and Fixture Mounted Above Work Top
1	Dual Receptacle Outlet Above Work Top

2

1 32" REAR FLAT SCREEN MONITOR MOUNTED IN BULKHEAD WALL
- 1   Flat Screen Monitor
- 1   Cable Assembly - Video Monitor to Monitor in Control Room
- 1   Electrical Outlet

1 7500 WATT QUIET DIESEL ONAN GENERATOR
- 1   120 Volt 60 HZ 7500 Watt (Minimum) Commercial Grade "Quiet" Generator
  - 1   Diesel Powered
  - 1   Electric Start

1 GENERATOR COMPARTMENT [UNDER CHASSIS MOUNT]
- 1   Generator Remote Start / Stop Cable Assemble
- 1   Generator Storage Compartment with Lockable External Access Door
- 1   Commercial Power Supply Receptacle, 25' Cord, and Plug
- 1   Electrical Supply Center with Circuit Breaker Box
- 1   Commercial power and Generator Power Connectors
- 1   Automatic Power Transfer Switch

1 VERTICAL EXHAUST FOR GENERATOR

1 DIGITAL ENGINEERING PANEL
- 1   Voltage Readout, Power Supply
- 1   Hertz Readout, Power Supply
- 1   Generator Hour Readout
- 1   Remote Generator Start / Stop Control Switch

1 P&T ZOOM M/C CAMERA
- 1   Solid State Color Sewer TV Camera
- 1   Pan & Rotate Camera Head, 40:1 Zoom Ratio, 10x Optical Zoom, 4x Digital Zoom
- 1   NTSC Color Standard with 4x Light Integration
- 1   Camera Lighting System for 6" through 72" lines
- 1   Camera Transportation and Storage Case

1 21" TRAC TRANSPORTER M/C TO INCLUDE:
- 1   6" Trac Transporter with Freewheel and Powered Reverse
- 1   Y Eliminator

1 8"-15" EXTENDERS FOR 21" TRAC TRANSPORTER

1 SPARE PARTS KIT FOR TRAC TRANSPORTER TO INCLUDE:
- 1   Additional Chain Links And Rubber Cleats

1 12/5/4 ADAPTER CABLE

1 1500' CABLE ASSEMBLY, M/C 12PIN METAL
- 1   1500' Gold Multi Conductor Kevlar Fiber Armored Combination TV Transmission / Tow Cable
- 1   .450 Diameter
- 1   Metal Splice Chamber with Pigtail
- 1   Cable Strain Relief

1 TV REEL ASSEMBLY, MECHANICAL FOOTAGE FOR SUMMIT .450 CABLE W/AUTO PAYOUT
- 1   Black Thermoplastic Powder Coated Frame
- 1   Power Levelwind & Multi Ratio Manual Transmission
- 1   Automatic Cable Payout System
- 1   Footage Meter with Local Counter and Remote Electronic Counter
- 1   Transmission Control at Viewing Station

1	Sealed Continuous Contact Collector Assembly
1	Removable Drip Pan for Cleaning

4 22" (MINIMUM) FLATSCREEN COLOR INDUSTRIAL TV MONITOR NTSC / PAL COLOR STANDARDS- The left side would have 2- 22 inch monitors stacked vertically for the computer (one for GXP, and one for Mapshot), and the right side would be 2- 22 inch monitors stacked vertically (one for mainline video, one for lateral video). The two pairs should be mounted far enough apart that a clear line of sight is maintained through the window to the back of the truck. Both sets of monitors should be mounted at the eye level of a seated operator.

·1 PCU ASSEMBLY [RACK MOUNT]

1 CCU ASSEMBLY [RACK MOUNT]
1	Alpha Numeric Information Display, with Multi Paging and Defect Coding
1	Remote "QWERTY" Keyboard for Data Entry
1	On Screen Footage Display
1	WRC and PACP Codes

1 TEST CABLE

1 WIRED USB CONTROLLER
- 1 Joystick Control for Pan and Tilt Zoom Camera to Include:
  - 1 360 Degree Rotate
  - 1 330 Degree Optical Pan
- 1 Joystick Control for All Steering Functions & Forward / Reverse Directions for Transporter
- 1 Camera Lift Control for Optional Electronic Camera Lift
- 1 All Other Controls for Camera to Include:
  - 1 Camera Iris and Focus Override & Zoom
  - 1 Camera Lights & Shutter Control for Light Enhancement
  - 1 Camera Diagnostics & Auto Home
- 1 Cruise Control to Set Speed of the Transporter for Hands Off Operation
- 1 All Reel Controls to Include: Retrieve, Release, and Variable Speed [Excluding Dolly Systems]

1 WIRELESS CONTROLLER
- 1 Joystick Control for Pan and Tilt Zoom Camera to Include:
  - 1 360 Degree Rotate
  - 1 330 Degree Optical Pan
- 1 Joystick Control for All Steering Functions & Forward / Reverse Directions for Transporter

- 1 Camera Lift Control for Optional Electronic Camera Lift
- 1 All Other Controls for Camera to Include:
  - 1 Camera Iris and Focus Override & Zoom
  - 1 Camera Lights & Shutter Control for Light Enhancement
  - 1 Camera Diagnostics & Auto Home
- 1 Cruise Control to Set Speed of the Transporter for Hands Off Operation
- 1 All Reel Controls to Include: Retrieve, Release, and Variable Speed [Excluding Dolly Systems]

1 8.7" MINI KEYBOARD

1 INSTALL CUSTOMER SUPPLIED COMPUTER WITH MOUSE, KEYBOARD WITH GXP SOFTWARE AND PRINTER

1 HEWLETT 90 WATT DOCKING STATION – A7E32UTABA

1 SELF PROPELLED LATERAL INSPECTION / EVALUATION SYSTEM, WHEELED, FOR 6" - 30" MAINLINE AND 3" - 8" LATERAL INSPECTION, TO INCLUDE:

- 1 Solid State Color Sewer TV Camera with:
  - 1 Pan & Rotate Camera Head, 40:1 Zoom Ratio, 10x Optical Zoom, 4x Digital Zoom
  - 1 NTSC Color Standard, 236 degree tilt/rotation, 285 degree optical pan
  - 1 Auto-centering feature, Automatic Focus, Automatic Iris
  - 1 Remote focus and Iris Override
  - 1 4x Light Enhancement Feature
- 1 Mini Fixed Orientation Color Camera, 1.50" Maximum Diameter x 3.5" Maximum Length with:
  - 1 Built In Light Ring with Solid State White LED Lighting
  - 1 Auto Upright image
  - 1 Built in Sonde transmitter for locating.
  - 1 Camera Head Assembly with Rotation Positioning
- 1 Push Cable Drive Assembly - Two-Speed Extend / Retract Camera Positioning
- 1 Self Propelled Launcher Robot with Freewheel, Forward, and Power Reverse
- 1 Wheeled Transporter Not to Exceed 32.2" Length from Front of the Pan, Tilt, Zoom Camera to the Rear of the Launcher Robot
- 1 100 ft. Fiberglass Push Cable Assembly
- 1 Electric Reel with Slipring and Clutch for Powered Retrieve of Push Cable
- 1 Control System to Include Launcher / Self Propelled Robot Control with:
  - 1 Extend / Retract, Left / Right Rotation, Cable Drive Speed
- 1 Rear tip-up connector
- 1 Interconnect Cable for Launcher to Push Cable
- 1 Interconnect Cable for Control System to Power Control Unit
- 1 Single-point quick wheel removal system
- 1 6 each 3.5" diameter tires for 6" pipe
- 1 6 each 4.375" diameter tires for 8" pipe
- 1 6 each 5" diameter tires for 10"-15" pipe
- **1 Will use 22" monitor – see monitor section for layout description**
- 1 Rear- View Camera
  - 1 Color NTSC Camera
  - 1 Lightring with (12) Solid State White LEDs

1 QUICK CABLE LOCK PIGTAIL COUPLER KIT

1 WIRELESS "RECEIVER" PACKAGE FOR TV UNIT TO INCLUDE:

- 1 Wireless Receiver, 2.4 GHz with Omni-Directioinal Antenna
- 1 Wireless Receiver Power Supply
- 1 A / B Video Switch
- 1 Outlet
- 1 Cables
- 1 Instruction Sheet

1 (CH304-1) WIRELESS CONTROL UNIT WITH TEXT WRITING, OBSERVATION CODING, DIGITAL RECORDING AND INDUSTRIAL GRADE MONITOR IN AN INJECTION MOLDED ENCLOSURE TO INCLUDE:

- 1 8.4" industrial grade, optically bonded, sunlight viewable, monitor with anti-reflective properties and LED backlighting
- 1 Operator Interface with controls for all camera functions
- 1 Video Titling to include multiple predefined and customizable screens
- 1 Digital video recording features video recording and playback and records screenshot picture images
- 1 A USB port for transferring digital video and still images directly from the MPlus+ Control Unit to a PC
- 1 Control Unit quick bracket mount for attaching to the coiler with hands free locking
- 1 System Interface connector features Video, Audio, distance counter quadrature and 12VDC outputs and a Video input
- 1 Built-in Li-Ion Battery with advanced charging technology for 4 hours of continuous use
- 1 Universal AC power input 85-264 volt AC, 50/60 Hz, or 12 Volt DC Power Source

1   Heavy 18 gauge and corrosion resistance Stainless Steel construction
1   Adjustable height handle for portability with cam locks and button stops
1   Large 10" durable wheels for portability and a balanced footprint for stability
1   Quick-Connect allows Control Unit mounting with 3 axes adjustability
1   Adjustable coiler brake
1   Integral distance sensor

1   ACCESSORY KIT TO INCLUDE:
1   Sunshield for enhanced sunlight viewability (CH083)
1   10 ft interconnect cable for connecting the coiler to the control unit (CH070)
1   AC power cord for 85-264 volt AC, 50/60 Hz, operation (165006)
1   An SD to USB card reader for convenient PC connectivity (EC2077)
1   A USB A to B cable for DVR to PC connectivity (EC2385)
1   Accessory bag for storage (CH061)

1   200' MINI SYSTEM PUSH CABLE ASSEMBLY
1   Push Cable with Durable Hytrel Jacket and Advanced Fiberglass Rod

1   SELF-LEVELING COLOR CAMERA HEAD, NTSC TO INCLUDE:
1   1 1/2" Stainless Steel Camera head designed for 2" to 12" Pipe
1   512 Hz integral sonde
1   12 high intensity LED's

1   5.8' - 24.5' POLE MOUNTED CAMERA WITH ZOOM TO INCLUDE:
1   Compact High Resolution Zoom Camera Assembly with:
       1   420:1 (35 Optical / 12 Digital) Zoom
       1   Built In Light Enhancement for Viewing in Ultra Low Light Conditions
       1   Camera Video Module w/ User Selectable Built In Video Image Stabilization
       2   Dual Wattage High Intensity Discharge Lights (9.5 w and 14 w)
1   Carbon Fiber Telescoping Pole 5.8' - 24.5' with:
       1   Low Profile Lock handles
       1   One (1) Hand Pole Adjustment
1   Hand Control Unit for Lights and camera Functions
1   Camera Mount Assembly with Swivel Adjustment
1   Video / Power Cable Assembly
1   Calibrated Pipe Diameter Guide with Spring Stabilizer Rod
1   Padded Lockable Storage Case with Rollers and Extend Handle

1   LCD DISPLAY WITH DVR SD UNIT FOR WIRELESS POLE CAMERA
1   6.4" LCD Screen
1   DVR SD
1   Mounting Bracket
1   Video / Audio & Power Cables
1   Integrated Wireless Video / Audio Transmitter [2.4 GHz] with Antenna

1   VEST & BATTERY KIT FOR POLE CAMERA TO INCLUDE:
1   ANSI / ISEA 107-2004 Class 2 Adjustable Hi-Visibility Safety / Battery Vest with:
       1   Padded Shoulder Supports
1   Digital Media Case with Adjustable Sun Shade
1   Rechargeable Battery
1   Battery Charger

1   MANHOLE TOPROLLER ASSEMBLY, TV ONLY

1   MANHOLE ADAPTER CLAW HOOK

6   RETRIEVAL/DOWNHOLE POLE ASSEMBLY

1   INVERT ROLLER ASSEMBLY

1 MULTI CONDUCTOR TV ONLY TOOL KIT
   1   Milliampmeter Tool
   1   Electrical Tape
   1   Needle Nose Pliers
   1   Six-In-One Screwdriver
   1   6" Adjustable Wrench
   1   Anti Seize Grease
   1   9-Piece Allen Wrench kit
   1   Solder Iron Kit
   1   Industrial Pliers
   1   5/32 T-Handle Hex Wrench
   1   Multi Conductor TV Only Operation Manual
   1   Parts Catalog
   1   Cable Repair Kit DVD
   1   TV Only Training DVD

1 TRAINING, ON-SITE (THREE DAYS)

1 TRUCK DELIVERY-WASHINGTON

OPTIONAL ITEMS
[NOT INCLUDED IN BASE QUOTE]

ITEM 1:

1 REMOVE LAMP II SYSTEM ABOVE IN BASE SYSTEM AND RE-INSTALL EXISTING LAMP II SYSTEM

IN NEW TRUCK

ITEM 2:

1 F550 FULL HEIGHT CONVERSION BETWEEN CAB AND VIEWING ROOM (Optional) – WILL ELIMINATE ATTIC STORAGE AREA