**EarthCam Mobile Trailer Cam Model #ECCS09200 A&E Specifications**

**01.32.36 Video Monitoring and Documentation**

1. **CAMERA SPECIFICATIONS**
   1. **Contractor Contact Information**

The Contractor shall provide a Robotic Webcam for users to remotely view the project on a secure connection via a network connection. The camera will provide a full view of the work area on the construction site.

CONTACT SYSTEM VENDOR: EarthCam Inc. / Brian Cury +1 201.488.1111

Email: WWW.EARTHCAM.NET/CONTACTUS

* 1. **Camera System for Highest Precision Monitoring and Documentation**
     + 1. Dimensions: 15.5’ L x 7.1’ W x 7.2’ H (4.57m L x 1.13m W x 2.2m H)
       2. Weight: 2800lbs (1270kg)
       3. Single torsion-type axle steel welded trailer with 2” adjustable ball hitch manual outriggers
       4. DOT approved lighting package to include brake and marker lights
       5. Solar powered and wireless
       6. Low maintenance 6Volt DC deep cycle AGM batteries, 75 Amp battery charger
       7. 150 watt polycrystalline silicon photovoltaic solar modules
       8. Trailer mounted locking manual/motorized up to 30 foot telescoping mast with spiral conduit for cable deployment
       9. Full size spare tire
       10. Consist of thermostatically controlled camera system, housed in a aluminum casing with a polycarbonate dome
       11. Pan/Tilt/Zoom: 360° pan, 180° tilt
       12. Horizontal field of view: 65.1°–2.0°, Vertical field of view: 39.1°–1.18°
       13. Resolution: 1920x1080 (HDTV 1080p)
       14. Motion JPEG video compression
       15. Capable of maintaining multiple preset compositions
       16. Lens: 4.25-170mm, 40x optical and 12x digital zoom
       17. Auto Features: Focus, ISO, brightness and white balance
       18. Communications: 10base-T/100base-TX Ethernet, IP Addressing: Dynamic or Static
       19. Wireless 4G modem LTE
       20. Secure 256-bit AES Encrypted onboard storage
       21. High-Definition continuous video recording with 60 days of retention (up to 1 year available)
       22. Industrial grade solid state embedded Linux System
       23. Custom branding to display company logo
       24. Designed for EarthCam Control Center

1. **SERVICE SPECIFICATIONS**
   1. **Internet Based Online Interface**

The camera will be accessible via an internet based Software as a Service (SaaS) solution. This online interface will be managed and supported by the System Vendor. The service will be available for the term of the project and allow the viewing of live video and High Definition digital still images captured and stored of the project on both mobile and desktop platforms.

The Internet Based Online Interface shall include the following features:

* + 1. Responsive HTML5 design for cross-platform access on desktop and mobile devices
    2. Secure HTTPS compliant with live stream secured & encrypted via https transport
    3. Display project name and logo
    4. Project Dashboard allows easy navigation between multiple cameras and projects
    5. Security Interface offers flexible multi-view camera grid selective up to 9 cameras per screen streaming simultaneously
    6. Edge Video Recorder features searchable intuitive visual timeline interface for fast incident footage retrieval and sharing
    7. Real-time live video viewing with user-controllable Robotic Pan, Tilt and Zoom
    8. User-controllable settings for creating and editing multiple preset compositions, each preset will be displayed as a thumbnail image
    9. Instant live snapshot capability in addition to preset scheduled archives
    10. Visual timeline with quick thumbnail view allows image navigation by year, month, day and hour
    11. AI-edited time-lapse technology removes frames obscured by foreign objects or weather elements, with music and graphics then added for downloadable presentations
    12. Full Screen Mode for displaying video and complete image without any graphical frame
    13. Photo Filters and Graphical Markup Tools for detailing and creating notes with graphical overlays on images, including project title, logo and time date stamp
    14. Image Comparison Tool for comparing two images taken at different times, overlayed on top of each other
    15. Project Management Software integration (Autodesk Construction Cloud, Autodesk Build, CmiC, Esri, InEight, Infotech, Procore, Projectmates, Raken, Salesforce)
    16. 3D/4D Model Integration (Autodesk Navisworks, Autodesk Revit, Bentley Synchro)
    17. Social Media Integration Tools for sharing project images and notes
    18. Automatically generated daily/weekly project progress update email with camera image and weather
    19. AI Media Dashboard – Interactive charts display AI-detected events and observations
    20. Graphical Weather applet displaying local weather data with satellite and updating radar imaging
    21. Integration of maps, aerial and satellite imagery
    22. Graphical Data Management Tools showing archived and current system status of solar amperage, battery power remaining, wireless radio connectivity, and device location
  1. **Security and Management**
     1. Access to account protected by Account Security feature which includes four levels of password protection, IP address block/permission and SSL protection of user login password.
     2. The system shall capture and upload images every 5 minutes, 24 hours per day.
     3. The system shall have M2M – Machine to Machine 24/7 Support with active self-healing technology and automatic software upgrades to maintain the quality, consistency and reliability of all images.
     4. Images will be maintained on the System Vendor’s servers for reference available at all times during the life of the project and for no less than 60 days after completion. All images will be protected on servers owned and operated by the System Vendor and located in a secure area at the System Vendor’s location.

1. **CONTRACTOR REQUIREMENTS** 
   1. **Jobsite Requirements**

The Contractor shall secure a nearby space to deploy the trailer as per System Vendor’s instruction. The Contractor shall supply all equipment required for safe and secure access to the camera location for technicians performing installation and maintenance services, including lane closures, bucket truck and/or lift. The System Vendor will consult on and provide recommendations for optimal camera placement and provide professional installation services as required.

* 1. **Camera Maintenance**

The Contractor shall provide all service and maintenance, including cleaning, of the camera system throughout the life of the project including making appropriate arrangements for camera to remain in operation up to and through finalization of all structural, landscaping and “completed state” condition necessary for beginning-to-end record.

1. **DELIVERABLES** 
   1. **Public Website**

The System Vendor shall provide custom public website development. Website shall be separate from the Online Interface, match the look and colors of the project’s website, and be delivered as embed code or standalone web page. Additional features include Facebook and Twitter integration, full screen mode, image comparison, weather, multiple logos, graphical background image and project description.