March 30, 2011

Yakima County Courthouse Security Entrance
Yakima County Project No. PW10-021
Wardell Architects Project No. 1046.40A

ADDENDUM NO. 3

To the Contractors, Subcontractors and Suppliers:

The following items contain additions, deletions, or modifications to the plans and specifications. This addendum forms a part of the Contract Documents and shall be bound inside the cover of the Project Manual.

General:

Addendum No. 2 Clarification, Site Visit, Item 2:: Add baseboard mastic to the list of anticipated hazardous materials.

Drawings

Sheet A202, Reflected Ceiling Plan, Add the following Notes:

<table>
<thead>
<tr>
<th>No.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Clean suspended light fixture in Exit 101/Entry 106A.</td>
</tr>
<tr>
<td>8</td>
<td>Clean light fixtures in Sally Port.</td>
</tr>
</tbody>
</table>

Sheet E201, Floor Plan Floor Plan – Power Systems: Change as shown on Detail Sheet AC-1 through AD-5 (included herein).

Project Manual

Index, p. 2: Add Section 12500  Furniture.

Section 08110, Standard Steel Doors and Frames, p. 21, line 34: Change to read: "Interior doors Level B (Heavy Duty), Model 2. ...fabricated from 18 ga. cold-rolled steel sheet."

Section 08110, Standard Steel Doors and Frames, p. 21, line 50: Change to read: "...minimum 15 ga. thick cold rolled sheet steel."

Section 08361, Overhead Sectional Doors, p. 28, line 44, as changed in Addendum No. 2: Change last line to read: "Provide remote 2 electronic garage door openers (programmable radio transmitter controls)."
Addendum No. 3  
3/30/11  
p. 2  

Section 08400 Aluminum Storefront Doors, p. 24, line 11: Change to read "...Wide Style..."

Section 08400 Aluminum Storefront Doors, p. 26, line 15 thru 19, as changed in Addendum No. 2: Add: ".....Magic-Force dual operators....Automatic openers shall be wireless battery operated."

Section 00700, Finish Hardware, as changed in Addendum No. 2, Group 6: Delete: 1 ea Latchset 28-10U15 LL. Add Lockset 28-10G04 LL.

Section 08700, Finish Hardware, p. 30, Hardware Schedule Clarification: Magnetic Locks to be supplied as part of the proximity reader system. See Electrical.

Section 10431, Signrs: Allowance for signage: In the basic bid price, include an allowance of $5,000 to cover providing and installing directional signage.

Section 12490, Horizontal Blinds, p. 46, line 7: Add the following:

"INSTALLATION LOCATIONS  
Provide blinds for three exterior windows in Room 106 Security."

Specification, p. 46, line 28: Add the following:

"FURNITURE  

Construction:

Table top: 1 ½" balanced construction with particle board core, edged and backed with moisture-resistant high pressure plastic laminate to form a completely sealed outside surface, with 1" x 1" steel tubing support to prevent bowing. Color: as chosen from manufacturer's standard colors.

Edges: vinyl bumper-t.

Frame: 2" diameter 13-gauge steel column and 14-gauge foot

Legs: tubular T-leg, sized to table top dimensions. Color: Gunmetal.

Glides: rubber cushion metal glide; adjustable for leveling."

Add new Specification Section 16727 Interior Camera, included herein.

Add new Specification Section 16728 Exterior Camera, included herein.

Project Manual Part II

Materials List (included herein): Insert at the beginning of Part III.

Room Finish Schedule: Replace Room Finish Schedule with new Schedule included herein.
Addendum No. 3
3/30/11
p. 3

Door Schedule: Replace Door Schedule with new Schedule included herein.

Detail 5/05: Delete and substitute Detail 5R/05, included herein.

Detail 1A/08: Delete and substitute Detail 1AR/08, included herein.

Detail 2/08: Delete and substitute Detail 2R/00, included herein.

Detail 3/08, included in Addendum No. 2: Change Notes as follows:

1. Mount door opener on face of building as shown.
2. Mount door opener on face of wall as shown.
3. Mount door opener on face of wall as shown.
4. Note that all door openers are wireless battery operated.

New Detail 4/08, included herein.

New Detail 4/09, included herein.

Approval of Substitutions:

The following items shall be added to the approved list of manufacturers at this time. This approval is an approval of quality only. No attempt has been made to check details of manufacturers' products or equipment as to the special features, capabilities or physical dimensions especially required for this project to verify exact compliance with the Specifications (a condition for providing products and equipment for this project). It shall be the responsibility of the Supplier and the Contractor to check all requirements before submitting for approval and to verify that items comply with all Contract Document requirements. Final approval of exact equipment size, capacity, etc., will be determined when the successful Contractor submits for Construction. Certain approvals are subject to conditions noted. Equipment listed in this Addendum will be approved per the conditions listed above. Equipment not listed in an addendum has been rejected.

SECTION    ITEM                  MANUFACTURER/PRODUCT
08400      Aluminum Storefront Doors US Aluminum 800 Series Durafront
08400      Aluminum Storefront Doors Record-USA 8100 Series Swing Door Heavy Duty Operator
08301      Overhead Sectional Doors AMARR Model 2400, with Liftmaster 115011 operator

END OF ADDENDUM NO. 3
MATERIALS LIST

3 The following are materials and colors to be used on this project. Refer to the Outline Specification for further explanation of applications of each. Colors to match exactly those designated herein.

6 For definition of referenced paint (P) numbers see Division 9 of this list.

9 Division 5: Metal

Railing at staff entrance 100A-1: P-3
Vestibule 101A Dividing Railing: P-3
Steel Fencing: Aegis FN100 Bronze. (See Specification Section 02820/Addendum 2.)

15 Division 6: Wood and Plastic

18 Plastic Laminate: PL-1 Wilsonart #7948K-07 "Mambo"

21 Division 8: Doors

Storefront Doors: Clear Anodized Aluminum
Wood Doors: P-3
Steel Doors: P-3
Hollow Metal Frames: P-3
Overhead Door: Paint to match steel fencing.

27 Division 9: Finishes

30 Paint Colors: P-1 Benjamin Moore "Linen White"
P-2 Benjamin Moore Iron-Clad Latex Low Luster Metal & Wood Enamel,
#62 Deep Bronze, to match resilient base ("Brown Black")
P-3 Benjamin Moore #1056 "Edgewood Rocks"
P-4 Paint to match walls in adjacent area.

36 Resilient Base:

39 RB Roppe #P193 "Brown Black" or equal.

Carpet:

42 CPT-1: Hercules NOP # 75 "Prism"
CPT-2: Bluridge Mirada VI, Color: # 2021 "Fjord"

45 Acoustical Ceilings:


51 Division 12: Furnishings

Horizontal Louver Blinds: To be selected from Manufacturer's standard colors.

54 1046.40A Materials List
Division 16: Electrical

3
Exposed Conduit: Paint to match adjacent surfaces.

6

9

END OF MATERIAL LIST
## ROOM FINISH SCHEDULE

For Finish and color information see the Materials List included in this Project Manual.

**Revised Addendum #3 3/30/11**

<table>
<thead>
<tr>
<th>Room No.</th>
<th>Room Name</th>
<th>Floor</th>
<th>Base</th>
<th>N</th>
<th>E</th>
<th>S</th>
<th>W</th>
<th>Ceiling Mat./Finish</th>
<th>Casework Face/Top</th>
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<tbody>
<tr>
<td>100</td>
<td>Sally Port</td>
<td>Exist</td>
<td>---</td>
<td>P5</td>
<td>P5</td>
<td>P5</td>
<td>P5</td>
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<tr>
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<td>Hallway</td>
<td>CPT-1</td>
<td>4&quot; RB</td>
<td>P1</td>
<td>P1</td>
<td>P1</td>
<td>P1</td>
<td>P1</td>
<td>Exist/P-1</td>
<td>cove ceiling</td>
</tr>
<tr>
<td>100B</td>
<td>Hallway</td>
<td>Exist</td>
<td>4&quot; RB</td>
<td>---</td>
<td>---</td>
<td>---</td>
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<td>---</td>
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<td>---</td>
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<tr>
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<td>Exist</td>
<td>CPT-1</td>
<td>4&quot; RB</td>
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<td>P1</td>
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<td>4&quot; RB/Exist</td>
<td>P-1</td>
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<td>P-1</td>
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<td>105</td>
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<td>4&quot; RB</td>
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<td>P-3</td>
<td>P-1</td>
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<td>PL-2/PL-1</td>
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<td>4&quot; RB</td>
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<td>P-1</td>
<td>P-1</td>
<td>ACT</td>
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<td>---</td>
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<td>4&quot; RB</td>
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<td>---</td>
<td>---</td>
<td>---</td>
<td>P-1</td>
<td>---</td>
</tr>
</tbody>
</table>

**Notes:**

1. Patch carpet and base where wall is removed.
2. Paint around new door as required.
3. Paint and carpet to east side of Door 100D-2.
4. Not used.
5. Match existing paint color.
6. Paint concrete columns, lid, and north, south and west face of the exterior concrete. Lid P-1, columns and faces color to be selected.
<table>
<thead>
<tr>
<th>Door No.</th>
<th>Type</th>
<th>Opening Size</th>
<th>Glass Finish</th>
<th>Metal Finish</th>
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<td>B</td>
<td>2'-10&quot; x 7'-0&quot;</td>
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<td>HM</td>
<td>SAFETY</td>
</tr>
<tr>
<td>SP-1</td>
<td>D</td>
<td>1'-0&quot; x 10'-0&quot;</td>
<td>METAL</td>
<td>METAL</td>
<td>SAFETY</td>
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<tr>
<td>SP-2</td>
<td>**</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>SP-3</td>
<td>**</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

Notes:
1. All doors located on Sheet A201 unless otherwise noted.
2. Verify overall width of opening, coordinate with Architect.
3. Paint both faces to match color of metal fencing.
SECTION 16727 – INTERIOR CAMERA

3 PART 1 - GENERAL

RELATED DOCUMENTS

This section is a Division-16 Basic Electrical Materials and Methods section, and is part of each Division-16 section.

Drawings and General Provisions of contract, including General and Supplementary Conditions, Division-1 Specification sections and all Division-16 sections, apply to work of this section.

9 PART 2 – PRODUCTS

MANUFACTURER

12 The exterior camera shall be a IQeye, Alliance MX Series, IQM31NE-B5 or approved equal. The following specification is based on the camera named above and serves as a basis of design for possible substitutions.

15 IQinVision

33122 Valle Road

San Juan Capistrano, CA 92675

18 Phone +1.949.369.8100

Fax +1.949.369.8105

The installer of the camera must be Milestone certified. Provide a Milestone license for each camera.

21 DESCRIPTION

The product specified shall be an all-in-one indoor/outdoor, vandal resistant dome enclosure with integrated H.264 (MPEG 4, Part 10) camera and varifocal lens providing 720p resolution at full video frame rate of 30fps with audio. Dual encoders allow simultaneous viewing of both H.264 and MJPEG video streams, and shall conform to the ONVIF, and PSIA standards.

27 The dome camera requires low power, and is PoE (IEEE 802.3af) compliant. The camera offers Day/Night functionality with high sensitivity for use in low light indoor/outdoor applications. The dome camera is constructed of cast-aluminum and tamper resistant clear polycarbonate dome bubble with inner liner and is IP66/NEMA4 rated.

GENERAL REQUIREMENTS

The IP dome camera shall be a high impact aluminum, vandal resistant, Day/Night color dome camera with a progressive scan CMOS sensor.

The IP dome camera shall utilize a CMOS sensor that is 1/3-inch with a dichroic infrared mirror capable of producing 720p resolution.
The IP dome camera shall have no less than 1280(H) x 720(V) pixels.

3 The camera shall be H.264 (MPEG 4, Part 10) compliant.

The IP dome camera shall provide H.264 (MPEG 4, Part 10) and MJPEG video compression with simultaneous streaming of both image formats.

6 The IP dome camera shall use Main Profile (MP) for mainstream consumer broadcast and storage applications.

9 The IP dome camera H.264 encoded video stream shall maintain full real time video frame rate of 30fps at a maximum resolution of 720p (1280 x 720).

12 The IP dome camera MJPEG encoded video stream shall maintain full real time video frame rate of 30fps at a maximum resolution of 720p (1280 x 720).

15 The IP dome camera shall be configurable to output images at resolutions of from the webpage interface.

18 H.264 720p & MJPEG 720p
H.264 720p & H.264 480p
H.264 720p & MJPEG 480p

21 The IP dome camera shall have bit rate control over the H.264 image stream.

The IP dome camera shall have a selectable bit rate from 256 Kbps to 11 Mbps for the H.264 image stream.

24 The IP dome camera shall have quality control over the MJPEG image stream with four selectable quality values from the webpage interface.

The IP dome camera shall conform to the ONVIF standard.

27 The IP dome camera shall conform to the PSIA standard.

30 The IP dome camera shall be Power over Ethernet (IEEE802.3af Class1) compliant for indoor/outdoor applications.

33 The IP dome camera shall have an integrated 3 13mm megapixel IR corrected varifocal lens with F1.4, and 1/3" optical format.

36 The IP dome camera shall provide a cast-aluminum housing, polycarbonate dome and inner liner.

The IP dome camera shall provide protection against water and dust up to IP66 / NEMA4 standards.
The IP dome camera shall be designed to be surface mounted to a wall or ceiling and pendant or wall mounted with optional accessories.

The IP dome camera shall have a 3-axis gimbal with providing 360° pan, 90° tilt and 350° azimuth for easy camera positioning.

The IP dome camera minimum illumination requirement to produce an image in color mode will be 0.20 lux (0.02 fc) with an F1.4 lens.

The IP dome camera shall provide motorized IR filter that will automatically switch from color to monochrome enhancing low lighting or in applications where IR illumination is utilized.

The IP dome camera shall require less than 0.05 lux (0.005 fc) to produce a monochrome image when in night mode.

The IP dome camera shall be sensitive from 850nm to 940nm IR illumination.

The IP dome camera shall have a feature (LIGHTGRABBER™) that enhances camera sensitivity by increasing the integration time of the CMOS sensor.

The IP dome camera shall provide automatic white balance, automatic exposure, gain control, electronic shutter, and backlight compensation.

The IP dome camera shall provide a fully programmable motion detection area with adjustments for sensitivity and size to detect motion in various lighting conditions.

The IP dome camera shall transmit half-duplex, bi-directional (two-way) audio that is synchronized with the H.264 video stream.

The IP dome camera shall support the following licensed features.

IQaccess: Software that enables multiple users to receive alerts via a pop-up window when the camera receives a hardware or software trigger.

The IP dome camera shall be FCC Part 15 Class B, CE, and RoHS compliant.

The IP dome camera shall operate within an ambient temperature of -20°C (-4°F) – to +50°C (+122°F).

NETWORKING REQUIREMENTS

The IP dome camera shall incorporate a built-in web server allowing full control and configuration of the camera.
The IP dome camera shall be Power over Ethernet (IEEE802.3af Class1) compliant.

The IP dome camera shall have a 100 Mbps Ethernet RJ-45 connection that can deliver data at a maximum rate of 35 Mbps.

Ethernet:

10/100 Base-T
Auto-sensing
Half/Full Duplex
RJ45

The IP dome camera shall provide integrated support for IP, TCP, UDP, ICMP, ARP, DHCP, HTTP, RTSP, RARP, BOOTP, SNMP, Telnet, and TFTP protocols.

The IP dome camera shall have RTSP (Real Time Streaming Protocol) support for compatibility with media players such as VLC Player, Apple QuickTime, Windows Media Player, and Core Player.

The IP dome camera shall deliver 720p quality video at a frame rate of 30fps via TCP/IP over CAT5 or CAT6 cable.

The IP dome camera shall not require unique or proprietary client software for viewing or controlling the camera.

The IP dome camera shall conform to the ONVIF and PSIA standards.

The IP dome camera shall be available to users running versions of Internet Explorer™, Firefox™, Safari™, Chrome™, Opera™, or Mozilla™.

The IP dome camera shall provide user and administrator password protection.

SENSOR

Type: CMOS 1/3-inch, Rolling Shutter
Megapixel Rating: 1.0 MP

Active Pixels: 1280 x 720
Bayer RGB filter

VIDEO

Maximum Resolution: 1280 (H) x 720 (V)
Shutter:

Automatic

1046.40A

INTERIOR CAMERA
Rolling Shutter

Maximum speed shall be 1/12,000 of a second

Day/Night: Auto, Color, Monochrome

Sensitivity:

Color: 0.2 lux (0.02 fc) with an F1.4 lens

Monochrome: Less than 0.05 lux (0.005 fc) with an F1.4 lens

IR Range (nm): 850 to 940

Dynamic Range: 74dB

Sharpness: Four level selectable

Gain Control: AGC (Automatic)

White Balance: AWB (Automatic)

Camera Name: 16-characters

IP VIDEO

Video Compression Standards:

H.264 (MPEG 4, Part 10)

MJPEG

H.264 Profile: Main Profile

Network Streams:

Single H.264 or MJPEG stream with configurable frame rate, bit rate, and quality.

Multiple H.264 streams with individually configurable frame rate, and bit rate.

Multiple simultaneous H.264 and MJPEG streams with configurable frame rate, bit rate, and quality.

Frame Rate:

H.264: 5, 7.5, 10, 15, 30 fps @ (Maximum Resolution 1280 x 720).

MJPEG: 1 to 30 fps @ (Maximum Resolution 1280 x 720).

Data Rate:

256 Kbps to 11 Mbps.

35 Mbps with no throttling.

GOP structure: Adjustable length (I&P frames).

OPTICS
Varifocal Lens:

3-13mm,

F1.4

IR-corrected

Manual zoom

Manual (EZ Glide) focus

Fixed iris

Lens Mount: M14

AUDIO

The IP dome camera shall transmit half-duplex, bi-directional (two-way) audio that is synchronized with the H.264 video stream.

The IP dome camera shall have an external microphone / line level input on a flying lead cable with a 3.5mm audio connector for connecting an external microphone or line level audio source.

The IP dome camera shall provide adjustable gain levels for the external microphone / line level audio input.

The IP dome camera shall have the ability to enable or disable the external microphone / line level audio input.

The IP dome camera shall have an audio output for connecting amplified external speakers on a flying lead cable with a 3.5mm audio connector.

The IP dome camera shall have the ability to enable or disable the audio output.

The IP dome camera shall have adjustable gain levels for the audio output.

The IP dome camera shall have a push-to-talk button in the user interface.

The IP dome camera shall have a mute audio button in the user interface.

Audio compression: G.711 PCM 8 kHz.

CONTROL & CONFIGURATION SOFTWARE

Web browser

IQfinder: Camera finding software.

IQmanager: Camera management & configuration software

Software Update: Remote programmable Flash ROM.

CONNECTORS

RJ45 Ethernet connector (IEEE 802.3af PoE compliant)

Audio:

1046.40A

INTERIOR CAMERA
External Microphone / Line input on a flying lead cable with a 3.5mm connector.

External speaker output on a flying lead cable with a 3.5mm connector.

3 ELECTRICAL

Power Consumption 3.8 Watts maximum.
IEEE 802.3af Power over Ethernet on Cat-5 or Cat-6 cable.

6 PoE Class: Class 1

MACHANCIAL SPECIFICATION

Construction:

9 Cast-aluminum enclosure.
Aluminum trim ring
Dome Bubble: Clear scratch resistant polycarbonate.

12 Mounting: Surface Mount

Color:
Enclosure and trim ring: Cool Gray #2

15 Inner Liner: Black

3-Axis gimbal adjustment:

Pan: 360°

Tilt: 90°
Azimuth: 360°

Dimensions:

21 3.83 H x 5.9 W x 5.9 D (in)
97.3 H x 150 W x 150 D (mm)

Dome Bubble Diameter:

24 3.86 (in)
98 (mm)

Weight:

27 900 (gm)
31.7 (oz)

30 The IP dome camera shall have solid-state components to resist shock and vibration.

INSTALLATION

1046.40A

INTERIOR CAMERA
Shall contain a full-featured IP dome camera with integrated varifocal lens.
Shall be capable of being mounted to a wall or ceiling surface or 4S electrical box.

3 Shall provide video, control, and will be powered over an Ethernet connection.
Shall provide audio input and output on a flying lead cable with 3.5mm socket connectors.
Shall provide multiple language support for English and Chinese.

6 ENVIRONMENTAL
Operating temperature range: -20°C (-4°F) – to +50°C (+122°F)
Operating Humidity range: 10% to 80% non-condensing.

9 Water & Dust protection:
   IP 66
   NEMA 4

12 REGULATORY APPROVALS
Electromagnetic Compatibility

Emissions

15 FCC, class B part 15

18 AS/NZS CISPR 22: 2002; Class A

Immunity


Safety:

24 EN 60950-1: 2001 with A11: 2004

IEC 60950-1: 2001

RoHS

27 All material and/or components used in the manufacture of the product shall be in compliance with the EU Directive 2002/95/EC Restriction of Hazardous Substance (RoHS).

WARRANTY

30 Manufacturer shall warrant the camera to be free from defects in material and workmanship for two years from the purchase date.

END OF SECTION 16727

1046.40A

INTERIOR CAMERA
SECTION 16728 EXTERIOR CAMERA

PART 1 – GENERAL

RELATED DOCUMENTS

This section is a Division-16 Basic Electrical Materials and Methods section, and is part of each Division-16 section. Drawings and General Provisions of contract, including General and Supplementary Conditions, Division-1 Specification sections and all Division-16 sections, apply to work of this section.

PART 2 – PRODUCTS

MANUFACTURER

The interior camera shall be a IQeye, Alliance Series, IQA12NE or approved equal. The following specification is based on the camera named above and serves as a basis of design for possible substitutions.

IQinVision
33122 Valle Road
San Juan Capistrano, CA 92675
Phone +1 949.369.8100
Fax +1 949.369.8105

The installer of the camera must be Milestone certified. Provide a Milestone license for each camera.

Manufacturer shall warrant the camera to be free from defects in material and workmanship for Two years from the purchase date.

GENERAL CAMERA DESCRIPTIONS

The product specified shall be an industrial grade, color, full-featured, high-speed day/night 2.0 megapixel network camera with on-camera recording/playback capabilities. The product is designed to meet or exceed industrial and surveillance applications requiring a low power, rugged vandal resistant video dome camera with IP network capability. The camera has a built-in web server and FTP server. It is IEEE 802.3af Power-over-Ethernet ready and can also be powered directly using 12-24 VDC. The camera will include a NTSC/PAL analog public view output.

GENERAL CAMERA REQUIREMENTS

The Day/Night high-resolution color camera specified shall incorporate a progressive scan CMOS imager with a 1/3-inch optical format, not less than 2.0 million pixels and shall have a dichroic infrared mirror.

Video compression shall be MJPEG.

Dome camera shall have secondary analog video port for camera installation and field-of-view and focus adjustments.

The dome camera shall be offered with a heater and blower to handle extreme temperature environments.

The image resolution shall be no less than 1600(H) x 1200(V) pixels. The camera’s aspect ratio (horizontal vs. vertical lines) shall be user configurable and not limited to 4:3 or 16:9 aspect ratios.
The camera shall produce 15 frames per second (fps) at full 1600(H) x 1200(V) resolution. The maximum frame rates are 15 fps at 4:3 (standard) aspect ratio and 20 fps at 16:9 (widescreen) aspect ratio.

Minimum light requirement to produce a color image shall be approximately 0.20 lux (0.02 fc) with a F1.2 lens. When in the Night mode, less than 0.05 lux (0.005 fc) shall be required to produce a black and white image.

The day / night dome camera shall be sensitive from 850nm to 940nm IR illumination.

Dome camera dynamic range shall be 61dB.

The camera shall provide automatic white balance, automatic exposure, gain control, electronic shutter, and backlight compensation.

A night mode, such as the IQeye Lightgrabber™ feature, shall slow the shutter speed down to enhance the nighttime sensitivity of the camera.

Dome camera maximum shutter speed shall be 1/12,000 of a second.

The camera shall have at least 64MB of RAM and 4MB of flash memory.

Digital image authentication shall be optionally available and licensed to verify that images have not been altered, manipulated, or tampered with, in any way.

The camera shall provide both a TCP/IP protocol video output via a RJ-45 Ethernet connection and an NTSC (PAL) analog video output via a BNC connection. Video outputs may be used simultaneously.

The camera shall provide on-screen time/date and text displays. The text display can be programmed to dynamically change when motion alarms are detected.

The camera shall provide built-in motion detection allowing up to eight separate, rectangular motion windows (zones) to be independently configured. Each window may have its interior pixels included or excluded from consideration by the motion detection algorithm. Windows configured to have pixels included in the motion calculations shall allow the threshold of both the sensitivity (pixel values) and size (quantity of pixels) to be set.

The camera shall provide on-screen, digital pan/tilt/zoom on live or recorded video.

User and Administrator password protection levels shall be provided.

Recessed mechanical reset buttons shall be provided to reboot the camera or to return it to factory default settings.

Dome camera shall provide image cropping.

Up to eight (8) rectangular privacy windows may be configured to mask out specific video from view in the image.

The camera shall capture image sequences by time lapse intervals or trigger events and transfer the jpeg images via FTP and/or e-mail.

Dome camera will allow for IQnightlight an optional license upgrade that allows the creation of day and night configuration files for image optimization.

IQaccess software that enables multiple users to receive alerts via a pop-up window when the camera receives an internal or external trigger shall be available via an optional license upgrade.
The dome camera shall be video analytics ready.

CAMERA NETWORKING REQUIREMENTS

The camera shall incorporate a built-in web server, built-in FTP server, and a built-in FTP client.

Camera functionality shall be available to users running versions of Java VM™ and versions of Netscape™, Internet Explorer™, Safari™, Opera™, or Mozilla™ released after January 1, 2004.

The camera shall provide integrated support for IP, TCP, UDP, ICMP, ARP, FTP, SMTP, DHCP, HTTP, RARP, BOOTP, SNMP, Telnet, and TFTP protocols.

The camera shall provide a multiview function where a single browser page shall be capable of displaying streaming images from up to nine cameras simultaneously.

No unique or proprietary client software shall be required for viewing or controlling the camera.

The camera shall be user configurable and the administrator may functionally or aesthetically modify the camera's web pages.

The camera shall provide for up to 64 area-of-interest streams that can be independently created of any size and aspect ratio and with any desired display resolution. Sub stream frame rate and compression can also be independently configured, up to the maximum frame rate delivered by the camera.

The Camera shall offer a web interface for quick creation of up to eight sub stream windows with auto-port configuration of each stream.

CAMERA RECORDING/PLAYBACK REQUIREMENTS

The manufacturer shall offer optional, licensable embedded recording/playback software that allows images to be recorded to an external FTP server or locally to an on-camera SDHC media card.

Images may be stored at a fixed periodic record rate and/or when triggered by motion and/or external input. Playback shall allow all images recorded to be viewed forward or backward in time.

The camera shall record all images in a proprietary file format.

The camera shall include pre-event and post-event recording, time-date search, JPEG snapshot, and AVI export functionality.

The dome camera will allow for IAuthenticate an optional license upgrade that creates a unique encrypted digital signature that identifies the camera that produced the image and detects if the image has been altered.

EVENT (ALARM) HANDLING CAPABILITY

The camera shall be capable of recording an event as pre and post event images to on-board SD Media Card. The camera shall also be able to transfer the event's JPEG images to an FTP server via File Transfer Protocol (FTP). Events may be triggered using camera motion detection or from an external device input such as a relay.

When triggered from an external input or the camera's motion detector, the camera shall be capable of sending JPEG images via e-mail and/or sequences of images to an FTP server or on-board compact flash if one is installed.

A relay output shall be available upon the activation of the camera's motion detector or external relay input. The relay output may also be manually activated from the live view screen.

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EXTERIOR CAMERA
CONNECTORS

RJ-45  Ethernet connector with supplied RJ-45 female Ethernet coupler (IEEE 802.3af PoE compliant)

Analog video: 75Ω BNC connector

Analog installation setup port: RCA Female

SDHC Media Slot

Alarm I/O:  4-pin screw terminal (pig tail).

Power Supply:  2-pin captive terminal screw terminal (pig tail).

Factory reset: momentary pushbutton switches

Reboot: momentary pushbutton switch

ELECTRICAL SPECIFICATIONS

Power Consumption:  IAQ12SI & IQA12SE Series less than 3.1 watts

                      IQA12SX Series less than 5.3 watts

Power requirement: 12-24 VDC via a two-pin removable connector or via IEEE 802.3af Power-over-Ethernet on CAT5, CAT5e, or CAT6 cable.

PoE Class:  IAQ12SI & IQA12SE Series Class 2

                      IQA12SX Series Class 2

MECHANICAL SPECIFICATIONS

Dome camera assembly shall be vandal resistant with a Polycarbonate dome and an aluminum body construction.

Dome camera shall have a 3-Axis gimbal.

Dome camera shall have a shroud that automatically tracks with camera position to eliminate lens "bumps" when sealing the camera dome bubble.

Dome camera shall have separate mounting plate to prevent accidental damage of camera electronics during installation.

Weight without back box: 30.1 Oz / 852.2 Grams

Weight with back box: 42.7 Oz / 1209.9 Grams

Dimensions Indoor Configuration

Dimensions: 3.88 H x 5.76 W x 5.76 D in.

98.6 H x 146.2 W x 146.2 D mm.

Total Diameter = 5.76 in (146.2 mm)

Bubble Diameter = 5 in (127 mm)

Dimensions Outdoor Configuration

Dimensions: 5.42 H x 5.76 W x 5.76 D in.

137.6 H x 146.2 W x 146.2 D mm.

1046.40A  EXTERIOR CAMERA
Total Diameter = 5.76 in (146.2 mm)
Bubble Diameter = 5 in (127 mm)

Lens mount: M14 mount

Camera Mount: Compatible with standard double gang box installation.
The camera shall feature solid-state components to resist shock and vibration.

ENVIRONMENTAL SPECIFICATIONS

Operating temperature range (indoor)
IQA12SI Series: (0° C to +40° C) / (32° F to +104° F)

Operating temperature range (outdoor version)
IQA12SE Series: (-20° C to +50° C) / (-4° F to +122° F)

Operating temperature range (extreme temperature)
IQA12SX Series: (-30° C to +50° C) / (-22° F to +122° F)

Humidity: 10% to 80%, non-condensing

CERTIFICATIONS AND APPROVALS

Electromagnetic Compatibility
Emissions:
FCC, class A part 15
AS/NZS CISPR 22:2002; Class A

Immunity:

Safety
EN 60950-1:2001 with A11:2004
IEC 60950-1:2001

RoHS
All material and/or components used in the manufacture of the product shall be in compliance with the EU Directive 2002/95/EC Restriction of Hazardous Substance (RoHS).

END OF SECTION 16728
1 1/2" φ PIPE RAIL
GRIND ALL WELDS AND JOINTS
SMOOTH, PRIME AND PAINT
BOLT TO SIDE OF RAMP
EMBED LAST POST IN CONCRETE.

LENGTH TO BE DETERMINED
BY DIFFERENCE IN GRADE BETWEEN
FLOOR LEVEL AND EXTERIOR GRADE

FACE OF BUILDING

RAILING AT NEW STAFF ENTRY

SCALE: 1/2" = 1'-0"
ADD # 3 3/30/11
NEW STAFF ENTRANCE
(Door 100A-I)

EXISTING ALUM FRAME
AND SPANDREL PANEL
TO REMAIN

NEW HM DOOR
FRAME

NEW STEEL DOOR
SEE DOOR SCHEDULE

5/8" GWB W/
METAL EDGE
ALIGN WITH EXISTING
PLASTER WALL

3 1/2" BATT INSULATION

EXIST PLANTER

5/16" HARDBOARD
PANEL
ATTACH DIRECTLY TO FRAMING WITH
EXPOSED SCREWS

SEALANT
TYP ALL
EDGES

5'-0"
EXISTING SALLY PORT STRUCTURE

TRACK HORIZONTAL ASSEMBLY

HEADPLATE

3" Ø STEEL COLUMN

OVERHEAD DOOR SP-I

AUGER 1'-0" DEEP, FILL WITH CONC. TO PROVIDE ANCHOR FOR STEEL P ATTACHMENT

A INVERTED

DOOR HEAD

OVERHEAD DOOR JAMB ASSEMBLY

3" Ø STEEL COLUMN
ALIGN WITH INSIDE FACE OF BEAM

VERIFY FENCING

OVERHEAD DOOR

COLUMN DETAIL

1/2" = 1'-0"

OVERHEAD DOOR

SCALE: 1/4" = 1'-0"
REVISED ADD. #3 3/30/11
REVOLUTIONS TO DOOR 100A-1
AND DOOR 100D-2

SCALE: 1/8" = 1'-0"
ADD. #3 3/30/11
<table>
<thead>
<tr>
<th>PROJECT:</th>
<th>YAKIMA COUNTY COURTHOUSE SECURITY ENTRANCE YAKIMA, WASHINGTON</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTRICAL CHANGE</td>
<td></td>
</tr>
<tr>
<td>DATE</td>
<td>03/29/11</td>
</tr>
<tr>
<td>DWG BY</td>
<td>DN</td>
</tr>
<tr>
<td>DWG NO</td>
<td>1 OF 5</td>
</tr>
<tr>
<td>PROJ NO</td>
<td>1046.40A</td>
</tr>
<tr>
<td>REF SHT</td>
<td>E201</td>
</tr>
<tr>
<td>DESCRIPTION</td>
<td>SECURITY CONDUIT &amp; DEVICES</td>
</tr>
</tbody>
</table>
2. Proximity Sensor. HID Series 356. Provide at each location.

3. Provide (2) DSX 10+2 Contactless Boards. Install in Existing DSX Can. Deliver to owner as spare if not needed.

4. Provide (2) #14 Single Conductor to DSX Panel, DSX Panel

5. Max Lock, Security Series. Provide (2) #14 Single Conductors to DSX Panel

6. Drain wire from each sensor to a DSX controller.

7. 24V Electric Strike. Provide (2) #16 Single Conductors to DSX Panel.

Security Notes:

Security Symbols:

DATE
03/29/11

DESCRIPTION
E201
5. PROVIDE A NEW IP CAMERA AT THIS LOCATION. PROVIDE ALL REQUIRED MOUNTING HARDWARE. SEE SPECIFICATIONS.

6. PROVIDE EXTERIOR IP CAMERAS AT THESE LOCATIONS. PROVIDE ALL REQUIRED MOUNTING HARDWARE. SEE SPECIFICATIONS.

7. RUN CAMERA CABLES INTO DATA ROOM. PROVIDE 20' OF ADDITIONAL CABLE IN ROOM FOR OWNER TERMINATION OR LAND CABLE ON EXISTING PATCH PANEL. COORDINATE REQUIREMENTS WITH OWNER.

8. PROVIDE A CAT5e PLENUM RATED CABLE FROM EACH CAMERA. RUN CABLES THROUGH CEILING SPACE. PROVIDE D-RINGS TO SUPPORT CABLES FROM STRUCTURE.

SOFFIT WALL AS CLOSE TO CORNER AS POSSIBLE. PUNCH THROUGH HALLWAY WALL INTO CEILING OF NEW SECURITY ROOM. PROVIDE A SMALL PIECE OF SURFACE RACEWAY TO COVER EXPOSED CABLES. PAINT RACEWAY TO MATCH WALL COLOR.

15. RUN CAMERA CABLES THROUGH CEILING CHASE INTO CEILING OF SECOND FLOOR. RUN CABLES THROUGH CEILING TO DATA ROOM 200. FOLLOW CABLE LENGTH OR TERMINATION REQUIREMENTS OF KEYED NOTE 7.

16. RUN CONDUCTORS FOR THESE DEVICES TO EXISTING DSX PANEL IN CLOSET NEAR AUDITORS OFFICE.

17. RUN CONDUCTORS FOR THESE DEVICES TO DSX CAN IN ROOM AT SOUTH END OF HALLWAY 100C.