

Camera Installation and backstock at Union Station Specifications

2 Washington Sq.

Worcester, MA 01604

- (26) Replacement cameras using existing drop.
- (2) Re-use existing camera and re-locate existing drop.
- (13) New cameras and installation of new network drop.
- Wiring, mounting, aiming, and installation of nineteen (19) interior and twenty (20) exterior cameras.
- Replace rotted ½" conduit in Food Hub Area.
- (15) Re-Aim cameras.
- (5) Clean and Re-seal cameras.

Camera Requirements:

- Cat 6 Ethernet required
- Genetec licensing for new cameras is required to integrate into Genetec back-end VMS.
- Three models of cameras that will be used for the project, all will need to be Axis Communications cameras. All cameras need to be weatherproof, vandal proof style cameras. Aiming and installation by your technician. Axis Network Speaker to be weatherproof for exterior installation.
- (6) Dome camera, Axis P3265-LVE (1080P) or better
- (14) 4 Head camera, Axis P3735-PLE (1080P) or better
- (19) PTZ AXIS P5654-E Mk II (1080P) or better
- All necessary mounting hardware (arms, poles, brackets etc.) per manufacturers' specifications

Axis IP speakers will need to be setup and configured in Genetec. Microphone will need to be set up on two separate workstations using Genetec Security Desk and will integrate into Genetec for paging over Axis IP speakers.

- (5) AXIS Network Speaker

Camera Attic stock counts (see detailed Requirements below)

- (5) Dome camera, Axis P3265-LVE (1080P) or better
- (5) 4 Head camera Axis P3735-PLE (1080P) or better
- (5) PTZ AXIS P5654-E Mk II (1080P) or better

For security reasons plans will be handed out to the winning bidder.

Wiring and Mounting Requirements:

ALL NEW CABLE RUNS AND CAMERA LOCATIONS TO BE APPROVED BY BUILDING OWNER PRIOR TO ANY INSTALL.

- Installation of (20) - Category 6 (CAT-6) (Which includes (13) new camera locations, relocating (2) existing camera drops and (5) new speaker locations) plenum cable to each predetermined location.
- Vendors will be required to terminate to the nearest backbone IDF, provided room is available for additional patch panels. Vendors may be required to run cabling further than the nearest IDF
* No wire run will exceed CAT 6 specified maximum distance of 100 Meters.
- Vendor is responsible for terminating drop to patch panel and testing from patch panel to camera.
- Vendor is responsible for providing all hangers, mounting hardware and any other supplies necessary for connection to camera from IDF/MDF.
- Hangers must be used above ceiling tiles where applicable and may not be laid on top of tiles.
- Any **interior** wiring in finished areas **will need to be snaked** given the historic nature of the building. In the rare occasion it can't be snaked it must be **pipel** (location will need prior approval of Owner) in **½" EMT** w/steel set screws 1-hole EMT clips 4" sq junction box if needed. We do not anticipate the need for wall patching but if any patching is needed, it must match the original walls and be approved by WRA.
- Any **exterior** mounted cameras vendor is responsible to provide **SCH 40 PVC** conduit and watertight connections using threaded boxes with gaskets duct seal or liquitite-sealtite-pvc coated flex cable single gang junction box if needed. **On any exterior applications, Axis Communications weather tight end (RJ45 connector push pull plug) must be used, if applicable.**
- All interior penetrations must be fire stopped and the exterior caulked.
- The WRA reserves the right to delete or adjust camera locations and receive a credit.
- All camera counts to be verified on site including interior and exterior by contractor.
- Vendor to provide list of MAC addresses for all devices so City IT can create DHCP reservations.
- **ALL WORK TO BE DONE PER THE NATIONAL ELECTRIC CODE.**

The Vendor is responsible for all costs associated with the installation of cameras including, but not limited to, all permits, roof coring and patching, lifts (interior or exterior) and/or bucket truck if and where required.

All work is to be conducted during regular business hours and/or around tenant hours if it applies, unless pre-arranged with the owner. This will typically mean normal business hours (7AM - 3PM).

Camera Installation:

Integration of cameras will include a meeting before project start with Union Station/IT personnel to verify correct positioning and after install for aiming of cameras.

Integration will be considered complete only after verification, by Union Station/IT, all work has been performed as per specification. No payment will be made before this verification.

Bidders are required to be:

- Must have a **valid S-License**.