ADDENDUM

Lethbridge Research Centre, Contract No. 12 – Security System Upgrade

INVITATION TO TENDER # 465-1-6-C12

Addendum No. 2

<u>TO ALL BIDDERS OF RECORD</u>

1.0   Notes

.1   This addendum is issued prior to Tender closing to provide for certain revisions as noted herein.

.2   All such revisions will become part of the work and the effects shall be included in the Tender Price.

Refer to Issued For Tender Drawings and Specifications.

2.0   Questions originating during 2014/08/21 site walkthrough

.1   Question: What is the current version of the existing Kantech software?

Answer: v4.04.29.

.2   Question: Is communications cabling to be shielded or unshielded?

Answer: Data (ITS) cabling shall be minimum Cat. 5E UTP, unless otherwise directed to use Cat. 6 by AAFC IT staff. Access Control Panel / controller communications cabling does not need to be shielded, but shall be Cat. 5E UTP or RS-485 UTP according to the specific application.

.3   Question: Are tamper switches to be added to Kantech ACS panels?

Answer: Tamper switches complete monitoring are to re-instated fully for all existing Kantech ACS panels/controllers, and provided with all new Kantech ACS panels/controllers.

.4   Question: Exit door contacts – are they existing?

Answer: Contractor's scope of work is limited to modifying / providing new door hardware as shown on plans and described in the specifications, as well as ensuring existing access control (including door contacts / door position switches) are fully functional at all new / existing doors.

.5   Question: For CCTV, must all cabling be in conduit, or are J-hooks or similar acceptable?

Answer: All cabling which is installed under this contract for CCTV shall be in conduit.

.6   Question: Where devices are demolished or removed, what is to be done with existing conduit?

Answer: Where one or more conduit is empty following removal of devices and associated wiring described in the drawings and specifications, empty conduit shall be left in place, recorded on record drawings and labeled as empty conduit.

.7   Question: Is painting or other identification of existing / new conduit as 'security' required?

Answer: No, new / existing security-specific conduit or other pathways are not to be identified with painting or other identification on site.

.8   Question: For the security upgrades, will the contractor be using existing IT infrastructure, including cabling, switches, hubs, etc.?

Answer: Refer to Specification section 26 05 02, general conditions, and specific scope of work descriptions. In general, backbone (fiber, etc.) infrastructure where existing is to be used, keeping security traffic separate from all other network traffic, with all associated termination, labeling, network hardware, new cabling, etc. required to integrate new/expanded security equipment provided and installed by the contractor in coordination with the Facility Manager and IT staff.

.9   Question: Are three or four gates being affected / replaced?

Answer: Refer to drawings and Specification section 26 05 02 – a total of three existing gates are modified or replaced as shown and described in the scope of work descriptions.

3.0   Questions received following 2014/08/21 site walkthrough

.1   Question: Is it the contractor's responsibility to re-program all existing doors and input points on the Kantech V6 platform?

Answer: Refer to Specification section 26 05 02, general conditions, and item 1.4 (Scope of Work: A01) – Firmware / programming / configuration of all new / existing access control panels/controllers shall be made fully compatible with the upgraded server software.

.2   Question: In Section A16, it refers to installing a KT-300 on the network. The KT-300 does not have a network port, should this be changed to a KT-400 or is the existing panel in the building a KT-400 and we can connect via a RS-485?

Answer: For all scopes of work (including A16) – Where installing or relocating a Kantech panel (KT-300 or other), RS-485 shall be used for inter-panel communication. Where required to tie a new or relocated Kantech panel into IT infrastructure, the Kantech IP Link module shall be provided for KT-300 panels.

.3   Question: SOW: C10 – the document is asking for a NVR then asks for an IP encoder. Can you please clarify? Is the system designed to record locally in building 100, or is it to record at the Head End (this IP encoder also occurs in later sections)?

Answer: Where a scope of work includes the provision of one or more new IP cameras, IP encoders are not required. NVRs are to be provided where noted for local recording of video at remote buildings, but also to support streaming of CCTV to Bldg. 102 for recording, playback, real time viewing, etc.

.4   Question: Can we substitute Aiphone IS series IP intercom for the Kintronics model?

Answer: Provided all functional and physical requirements outlined in the specifications and each applicable scope of work are met, the Aiphone IS Series Network-Based Communication and Security Control Systems is, in general, an acceptable alternate.

.5   Question: Confirm locations of four (4) existing analog cameras to be replaced (scope of work C14)?

Answer: The four (4) existing analog cameras to be replaced are located in stairwells within Building 102, although exact locations may not be shown on as-built drawings. Exact locations will be clarified by Facility Manager. The scope of work includes replacing the cameras at the same location.

.6   Question: The specification is asking for Corporate Edition software, but it also asks for features that are only available in Global. For instance, the feature of using an input on one controller that can trigger an output on another controller is only available on the Global software. In this application, the concierge is to trigger an input from the controller at his location and activate the gate trigger on a second controller through the network. Can you please provide some clarification?

Answer: The intention is to not upgrade to the Global Edition software at this time, as there are other infrastructure and architecture changes that would be required to facilitate this change. Therefore, in the case of scope of work M07 (push button operation of gates from Commissionaire desk), and the scopes of work specific to providing new gates (including remote operation capability), the buttons shall communicate to the gate Kantech ACS panel and gate controller via other means (i.e. IT infrastructure), rather than ACS controller-to-controller capabilities that are not available with the Corporate Edition.

.7   Question: Clarify / confirm safety features to be provided with gates?

Answer: Automatic Systems Model BL 52 gates shall be provided as specified, but including the optional dual height photo eyes. It is intended that photo eyes/receivers on opposite side of road from gate base unit shall be mounted on the gate arm tip support, or to utilize the structure as currently designed. Also note:

- Scope of work M02 (Jail Road Gate) – drawing currently shows conduit to be run under road to pedestal / card reader on West side of road. Extend this conduit on West side of road North to gate arm tip support to provide pathway for communications cabling between photo eyes sensor receivers and transmitters.

- Scope of work M04 (Gate NE of Bldg. 86) – drawing currently shows conduit to be run under road. Extend this conduit on South side of road East to gate arm tip support to provide pathway for communications cabling between photo eyes sensor receivers and transmitters.

- Scope of work M06 (Gate SE of Bldg. 38) – provide ¾" rigid PVC conduit from gate base unit to location of gate tip arm support to provide pathway for communications cabling between photo eyes sensor receivers and transmitters.

.8   Question: In looking at the M02 Scope portion and it also asks for a KT-300. Is there an existing RS-485 bus in place that we can connect to or should this be replaced with a KT-400 to be put on the network? Keep in mind that this is in a remote cabinet is to have a NVR, a network switch.

Answer: Where required to tie a new or relocated Kantech panel into IT infrastructure, the Kantech IP Link module shall be provided for KT-300 panels.

.9   Question: Is there a riser/wiring diagram available to view all possible connections?

Answer: Available existing ITS infrastructure documentation will be provided to the successful bidder. Sharing of this information is limited for reasons of confidentiality.

.10   Question: In regards to section SOW M04 point 4 – what type of wiring is in place for all devices including door contact (gate status), card reader, and gate trigger (lock trigger)?

Answer: All conduit and wiring between Bldg. 86 and the new gate location will be new.

.11   Question: SOW M06: how is the network connectivity completed?

Answer: The intent is that the conduit shown for communications will be used to run data cabling from the new gate location back to Bldg. 86 (refer to drawings and Specification section 26 05 02 item 1.47.4.11) and tie in to existing IT infrastructure at Bldg. 86.

.12   Question: Can you please clarify the location of the M02 scope of work? I cannot find the existing gate label on any of the drawings provided.

Answer: The existing Jail Road Gate (manual) is located directly adjacent to the intersection of Jail Road and the intersecting gravel road. As described in Specification section 26 05 02 item 1.43.3, the intent is to located the new gate approximately 80' South of the intersection, with the final location to be coordinated with the Facility Manager.

.13   Question: Throughout Specification section 26 05 02, "Connect new access control panel(s) to existing IT infrastructure at building" is noted. Please clarify that all ports will be available, or will we be required to supply a switch and/or fiber terminations.

Answer: It is the responsibility of the contractor to confirm availability of ports in coordination with the AAFC Facility Manager and AAFC IT staff, and to provide additional hardware (switches, etc.), and/or terminate additional fiber, as required to facilitate a complete installation.

End of Addendum No. 2