

Amendment No. 004

ATT005

#	Reference	Question	Response
1		Please provide rubber mat spec's for the mats required at Feed Alley 25mm mat and at the Operator Pit 19mm mat	Specifications updated in 11 82 01 Dairy Equipment List per Consultant Addendum 02 to Set 02
2	Specification Set 02 Section 28 31 00_01 - Multiplex Fire Alarm System	Is an engineer's stamp actually required? (this is not standard practice typically) .3 Shop Drawings: .1 Submit drawings stamped and signed by professional engineer registered or licensed in Province of Ontario, Canada.	No Engineer stamp is required. Reference specification Set 02 Section 28 31 00_01 - Multiple Fire Alarm System. Art 1.2.3.1 Submit drawings stamped and signed by professional engineer registered or licensed in Province of Ontario, Canada. Spec section updated to reflect changes and clarifications per Consultant Addendum 02 to Set 02
3	Specification Set 02 Section 28 31 00_01 - Multiplex Fire Alarm System	Is this system part of a larger network?, what brand? .1 Communication between nodes in networked system to be supervised, DCLA. Should communications fail between any 2 nodes, other nodes on loop to continue to communicate with each other and programmed functions on communicating nodes to continue operating.	There is no network system. Contractor to provide wiring and connections at building PP64 and a system capable of wireless communications. Reference specification Set 02 Section 28 31 00_01 Art 2.3.1.8.1 Spec section updated to reflect changes and clarifications per Consultant Addendum 02 to Set 02
4	Specification Set 02 Section 28 31 00_01 - Multiplex Fire Alarm System	Is an onboard printer actually required? (these are no longer manufactured or available) .12 On-board, 20-column, DC strip printer, thermal head with automatic paper take-up, and silent operation; operational while system is operating on standby power. Expanded font available for selected printing conditions.	Delete .12 no on-board printer required. Reference specification Set 02 Section 28 31 00_01 Art 2.3.1.12 Spec section updated to reflect changes and clarifications per Consultant Addendum 02 to Set 02

5	Specification Set 02 Section 28 31 00_01 - Multiplex Fire Alarm System	<p>Is there fans to shutdown with relays?</p> <p>.5 Fans: stagger-started upon system reset; timing circuit to separate starting of each fan or set of fans connected to auxiliary contact on system.</p>	<p>There are fans to be shutdown but they do not require staggered start. Reference specification Set 02 Section 28 31 00_01 Art 2.7.5 Spec section updated to reflect changes and clarifications per Consultant Addendum 02 to Set 02</p>
6	Specification Set 02 Section 28 31 00_01 - Multiplex Fire Alarm System	<p>drawings requested horn/strobes, however bells are spec'd</p> <p><u>2.13 AUDIBLE SIGNAL DEVICES</u></p> <p>.1 Bells: vibrating motorized type, gongs of special alloy steel, 24 V dc, 150 mm, 95 db.</p>	<p>The drawings are correct. Contractor to provide Horns with Strobes in place of Bells. Reference specification Set 02.Section 28 31 00_01 Art 2.13.1 Spec section updated to reflect changes and clarifications per Consultant Addendum 02 to Set 02</p>
7	Specification Set 02 Section 28 31 00_01 - Multiplex Fire Alarm System	<p>Is a remote printer required?</p> <p><u>2.18 REMOTE PRINTER</u></p> <p>.1 System printer: to give a hard copy record of system events c/w following features: .1 120 V ac, 60 Hz. .2 80 columns. .3 160 cps. .4 Utilizes fan fold paper. .5 Connected to RS-232 output at central control panel.</p>	<p>Yes. Reference specification Set 02 Section 28 31 00_01 Art 2.18</p>
8	Specification Set 02 Section 28 31 00_01 - Multiplex Fire Alarm System	<p>Is a remote terminal required?</p> <p><u>2.19 REMOTE TERMINAL</u></p> <p>.1 CRT screen: 120 V, 60 Hz, to incorporate 100% solid state circuitry, with 30 cm screen and front mounted controls for brightness, contrast, vertical and horizontal hold and power ON/OFF switch.</p>	<p>Delete Art 2.19 regarding remote terminal. Reference specification Set 02 Section 28 31 00_01 Art 2.19.1 Spec section updated to reflect changes and clarifications per Consultant Addendum 02 to Set 02</p>

9	Specification Set 02 Section 28 31 00_01 - Multiplex Fire Alarm System	<p>Please clarify requirement (PROM burning is no longer an industry task)</p> <p><u>3.7 MAINTENANCE</u></p> <p>.1 Provide PROM re-burns annually for period of five (5) years following acceptance.</p>	<p>Delete 3.7.1 regarding PROM re-burns. Reference specification Set 02 Section 28 31 00_01 Art 3.7.1 Spec section updated to reflect changes and clarifications per Consultant Addendum 02 to Set 02</p>
10	Communication cabling portion of the cattle barn	<p>For the feeder cable going from PP64 are they hand holes or Man holes for the duct work? Please advise as we would need to know if we must rent Sniffers or not.</p>	<p>Clarification: Per drawing E1.2 and E.C.1.2 details, the "maintenance holes" (contractor is referring to them as manholes) that are adequate for the conduits entering and leaving and wiring/cabling passing through are to be provided. They are not hand holes.</p>
11	Section 27 05 13	<p>Section 27 05 13 3.2.1 – It indicates Armored cable in ducts. Does this mean that both the fiber and copper feeder must be outdoor rated armor?</p>	<p>Clarification: Specification section 27 05 13 refers to the copper conductors, and that they be outdoor rated armored cable. The fiber feeder need not be outdoor rated armor.</p>
12	Section 27 05 14	<p>Section 27 05 14 2.3.2 – Terminate in a wall mount cabinet lockable – Who is supplying the cabinet? No mention anywhere else about this cabinet. Please provide specs if this is in the Div 27 scope of work.</p>	<p>Wall mount cabinet by contractor per spec section 26 27 16 Spec section updated to reflect changes and clarifications per Consultant Addendum 02 to Set 02</p>

13	Section 27 11 19	Section 27 11 19 2.3 – 25 pair copper feeder cable is it to terminate on bix / 110 punch down strips or module patch panel?	For termination details see Spec section updated to reflect changes and clarifications per Consultant Addendum 02 to Set 02
14	Section 27 11 19	2.6.1 – Do all data cables terminate on bix / 110 punch down strips, then extend with pigtails into the lockable cabinet? Please advise.	For termination details see Spec section updated to reflect changes and clarifications per Consultant Addendum 02 to Set 02
15	Section 27 11 19	1.9.1 – Spec calls for SC compatible adapter for fiber. But Sections 27 05 14 2.3.2 calls for LC fiber connectors. Please clarify what is required? SC or LC fiber connectors.	SC compatible adapters are to be used for the fiber.
16		There is no mention of surge protectors for the 25 pair copper feeder cable. Is a set required for each end of the cable? Please advise.	No surge protectors are required for the 25 pair copper feeder cable (at either end) by this contractor.

All other terms and conditions of the Invitation-to-Tender remain unchanged.