

2025-T-9 - New NRPS D3 NG911 Stand Alone Back Up Facility

Date Issued: Monday March 10, 2025

Addendum No. 3

No. of Addenda pages: 27

Attachments:

Attachments:

Appendix D – Tender Package Drawing Revision 2

Appendix E - Tender Package Specifications Revision 2

REVISIONS

Revision 1

1.6. RFT Timetable: Key Dates is revised as follows:

Issue Date of RFT	Friday January 31, 2025
Site Visit / Pre-Bid Meeting	Tuesday February 11, 2025 10.30 AM local time
Deadline for Questions	Friday February 28, 2025 12:00 PM local time
Deadline for Issuing Addenda	Monday March 10, 2025
Submission Deadline	Monday March 17, 2025 2:00 PM local time
Anticipated Execution of Contract	April 2025
Irrevocability Period	Ninety (90) calendar days

Revision 2

In the Solicitation Document, Appendices, Addendum, and Bidding System.

1. Appendix – D – Tender Package Drawings

Delete-

A004 –Door and Window Schedule

A141 -Finishes Plan

E301 -Ground Floor Power Plan

E401 -Ground Floor Fire Alarm Plan

E502 -Fire Alarm Riser Diagram

E701 -Ground Floor Communication Plan
E901 -Single Line Diagram
E914 -Panel Schedules 5
M003 -Schedules (1 of 2)
M004 -Schedules (2 of 2)
M200 -Ground Floor Plan - Under Slab Plumbing
M201 -Ground Floor Plan – Plumbing
M451 -Ground Floor Plan – HVAC Piping
M504 -Schematic – Plumbing & Gas
M503 -Schematic – Heating Water & Chilled Water
M510 -Control Schematics – General
M512 -Control Schematics – RTU – 1
M513 -Control Schematics – CRAC,SCU
M514 -Control Schematics – Heating & Chilled Water Plant
PV101 -Legend & General Notes
PV103 -Single Line Diagram

Replace with –

Drawings with same names as above, attached as “Appendix D Tender Package Drawings Revision 2”

Additional Drawings –

Attached as “Appendix D Tender Package Drawings Revision 2”

Sketch – Ref -Typ. Parapet

Sketch – Ref - 4/A709 -

2. Appendix E – Tender Package Specifications

Specification revisions as follows - Attached as “Appendix E Tender Package Specification Revision 2”

Delete-

Section 20 08 00 – Variable Frequency Drivers
Section 22 42 00 – Plumbing Fixtures
Section 23 72 00 – Hydronic Air Handling Units
Section 25 00 00 – Building Automation System (BAS)
Section 25 95 00 – Sequence of Operations
Section 27 10 05 – Structured Cabling for Comm Systems

Replace with -

Section 20 08 00 – Variable Frequency Drivers (pages 1 of 4)
 Section 22 42 00 – Plumbing Fixtures (pages 1 of 6)
 Section 23 72 00 – Hydronic Air Handling Units (pages 1 of 18)
 Section 25 00 00 – Building Automation System (BAS) (pages 1 of 67)

Section 25 95 00 – Sequence of Operations (pages 1 of 41)

Section 27 10 05 – Structured Cabling for Comm Systems (pages 1 to 12)

Add-

Section 08 51 13 – Aluminum Windows (pages 1 to 7)

Section 26 05 37 – Underfloor Ducts (pages 1 to 4)

Questions and Answers

Question 1:

Can you please provide the make and model number, or at least the supplier for the Comms chamber shown on E705?

Answer 1:

Niagara Region confirms the following:

Supplier: Hubble, Oldcastle or approved equivalent.

Size: 24" (Width) x 36" (Length) x 36" (Depth).

Material: PG Style Polymer Concrete, Tier 22 (Cover).

Reference model: Hubble PG2436HH00.

For power handholes refer to requirements and acceptable manufacturers in specification section 26 05 31 Electrical Concrete.

Products clause 2.03.

Question 2:

There are Decorative Metal Fences and Gates in the spec, please confirm if there are part of tender, if so, please provide layout / measurements and typical details

Answer 2:

Niagara Region confirms the Decorate Metal Fences and Gates are part of the scope of work. Basis of Design – Decorative Screen Panels by Barrette Outdoor Living. Include surface mounted posts, frames and Optic decorative screens.

<https://barretteoutdoorliving.ca/product/decorative-screen-panels-34-x-68>

Question 3:

Please advise if there are any mandatory contractors for Communication, Security, Fire Alarm, BAS and Sprinkler?

Answer 3:

Niagara Region confirms there are no mandatory contractors for Communication, Security, Fire Alarm, BAS and Sprinkler.

Question 4:

Can Schneider Electric be added as an acceptable BAS manufacturer? They have a fully supported N4 product line.

Answer 4:

Niagara Region has advised AECOM that their preferred BAS manufacturers are: Distech, Honeywell, iSMA, and Easy I/O.

Question 5:

Drawing E 101 shows conduit under an existing parking area that is directly above the new building. will these be trenches to repair or will that entire parking area be removed and repaved?

Answer 5:

Niagara Region confirms that there will be trenches to repair. Re-paving of the existing parking lot is not in scope.

Question 6:

1. Is there non-union competition?
2. Cable Tray – stacked in IT room – DIV 26 or DIV 27?
3. Hot/Cold Aisle Containment – Who's scope?
4. CCTV – I will supply and install CAT6A cable. Camera supplied by security. Who will install Cameras?
5. Access Controls – Devices by security. Cabling by DIV 27 or DIV 28?
6. Intrusion Detection – Devices by Security. Cabling by DIV 27 or 28?
7. Can you confirm that any DAS/Antenna scope is rough in conduit only?
8. WIFI supply and install \DIV 27?
9. Please indicate the location of the IT Room in the existing building. There is a new fibre optic cable run between the Existing and New buildings. I will need to determine the distance for cable length.

Answer 6:

Niagara Region confirms the following:

1. The Niagara Region does not require unionized trades.
2. Division 26.

3. No hot/cold aisle containment in this project
4. Contractor to provide and install CAT6A cables, cameras, conduits, and miscellaneous material to constitute a complete system as specified in specification section 28 23 00 CCTV Video Surveillance.
5. Division 28.
6. Division 28.
7. Rough in conduit only within scope of work.
8. Division 27
9. Refer to E101 and E703. Fiber cable to be terminated to existing server room in existing D3 Building.

Question 7:

With reference to drawing A004 Door and Window Schedule: Is there a specification for the windows? Are this glazed aluminum?

Answer 7:

Niagara Region confirms that the windows are to be Aluminum. Specification Added: Colour - Anodized Dark Bronze.

Question 8:

With reference to Spec Section 08 41 13 Aluminum framed entrances and storefronts: is this specification applicable to this project? Where are the aluminum framed entrances and the storefronts?

Answer 8:

Niagara Region confirms that D101a & D101b shall be Aluminum. The door Schedule on A004 has been updated. Colour: Anodized Dark Bronze.

Question 9:

With reference to Spec Section 32 17 13.19 Precast concrete parking bumpers – please provide quantity required as they are not indicated on the drawings.

Answer 9:

Please delete Specification Section in its entirety.

Question 10:

Regarding cash allowances 01 21 00, 3.3... please confirm/clarify?

A) Emergency generator relocation ... includes all labour /materials/site inspections/approvals, all turnkey costs as listed on E101 ,note 7?

B) Door Hardware we assume its supply and install (division 08 71 00 ,item 1.1.1 describes the work as “ supply and installation”, Please confirm , or state clearly that the allowance is “supply only”

.C) FF & E ... assumed to be supply and install (co-ordinate only costs in base price)

D) Signage assumed : all interior and exterior signage , to be supplied and installed as part of the allowance.

Answer 10:

Niagara Region confirms the following:

- a. Confirmed.
- b. Supply only, installation shall be part of the base scope.
- c. Confirmed.
- d. Confirmed.

Question 11:

In division 08 41 13 item 2.6.4 ... Where it states “provide door hardware ... in accordance with door hardware schedule” we assume the supply of the aluminum door hardware will be from the \$50,000.00 hardware supply allowance.

Answer 11:

Niagara Region confirms that the door hardware for aluminum door shall be provided by the Aluminum Door manufacturer. Please refer to Door Hardware schedule for components.

Question 12:

We assume all automatic door operators as described in the hardware schedule will be “supply and install”, all within the 50,000.00-dollar hardware allowance. Please confirm.

Answer 12:

Niagara Region confirms that the supply of the door operators shall be part of the allowance.

Question 13:

Regarding filling the diesel generator fuel tank for testing and for final fill (26 32 02 item 3.2.14). Are we coordinating the filling only using the Regions fuel supplier as free issue, or are we purchasing the fuel under this contract ? If so, who does the Region use?

Answer 13:

Niagara Region confirms that fuel for commissioning to be included. The tank should be at full capacity upon turn over at substantial completion.

Question 14:

After carefully reviewing the drawings, for the epoxy flooring, the specifications call for it in rooms 114, 115, and 118, while the A141 Finishes Plan calls for sealed concrete in the same rooms. Could you please clarify this discrepancy?

Answer 14:

Niagara Region confirms that epoxy finish as per specifications. Please refer to A141 – Finishes Plan – Appendix D Tender Package Drawings Revision 2.

Question 15:

Questions from glass sub....

As discussed, for window type W2 and W3 if your refer to detail 1 and 2 on drawing A709, the caps and pressure plates are buried behind the composite panels. This is a bad detail. When the sealed units fail or if one is broken it will not be possible to change the glass without having to removing the composite panels. and Fort window W1, they are calling for a custom-made cap. This is not a practical option for one window and a total of 2 s/l at the most. There will be a change to make the custom dye along with minimum order for the extrusion run. To make a brake shape and screw it to the pressure plate is not an option as they would not be able to remove this brake shapes if / when the glass needs to be replaced.

Answer 15:

Niagara Region confirms that for Windows W2 and W3, the contractor shall move the ACM panel window surround to expose the window cap plate. For Window W1, delete the elongated pressure cap and the contractor is to provide an aluminum sill as shown in Sketch Det-4 A709.

Question 16:

We would like to request that our ASP Access Floor be considered as a substitution for this project. Please find attached the data sheet for your reference. Our product meets and exceeds the specifications outlined in the project requirements. Additionally, we offer a lead time of 8 to 10 weeks and can provide cost savings for the project.

Answer 16:

Niagara Region has vetted with the prime consultant all access flooring prior to tender and ASP Access Flooring will not be considered, but only the listed approved vendor within the spec are to be considered.

Question 17:

With reference to Spec Section 32 31 13 Chain link fencing and gate: The only chain link fencing indicated on the drawings is the temporary chain link fence (drawing A102). Is this what this specification section is supposed to apply to or are there other chain link fencing requirements?

Answer 17:

Niagara Region Confirm that the chain link fence between the rear property line and Joanne Court requiring partial removal and reinstatement to accommodate site servicing.

Question 18:

With reference to Spec Section 32 31 19 Decorative metal fences and gates: Where is this required? There is nothing indicated on the drawings.

Answer 18:

Niagara Region confirms decorative metal fences and gates are required at the patio, please refer to Note EL9 on Sheet A111 & A202.

Question 19:

With reference to Spec Section 09 67 23 Resinous flooring: Where is this to be applied? It is not indicated anywhere on the room finish schedule (A141).

Answer 19:

Please refer to Addendum #1; Resinous Flooring in Rooms 111, 114 & 115.

Question 20:

On A141 Finishes Plan "Sealed concrete" is indicated. Please provide specification.

Answer 20:

Niagara Region confirms that Sealed Concrete has been revised to RF-1 Resinous Flooring – as noted on revised drawing A141 – Finishes Plan as per attached Appendix D Tender Package Drawings Revision 2.

Question 21:

1. Provide Cable Termination details – Intercabinet Cabling
2. Provide Complete IT Cabinet Elevations
3. Provide Cabinet Designations – Security, Network, Server etc.
4. Are the Wall Mount Fibre Optic Cable Patch Panels Splice Enclosures?
 - a. See E703 Detail 1.

Answer 21:

Niagara Region confirms the following:

1. Refer to E703 Detail 1.
2. Complete IT cabinet elevations to be coordinated and finished with Region who will provide active equipment.
3. Refer to E702 Detail 1.
4. Yes, the wall mount fibre optic cable patch panels are splice enclosures as demarcation point for incoming services.

Question 22:

Is the 2024-RFSQ-203 supplier qualification roster valid for this tender?

Answer 22:

Niagara Region confirms that 2024-RFSQ-203 supplier qualification roster is not being utilized for this Tender.

Question 23:

Can the deadline for questions be moved to March 11, 2025. As most questions from subcontractors & suppliers are usually days before the closing date, not weeks. This benefits Niagara Police in terms of arriving at their budget, & keeps more subcontractors interested in bidding this project.

Answer 23:

Niagara Region will not extend the deadline for questions.

Question 24:

Structural S-101, Foundation note # 4 indicates FOOTING ELEVATION SHOWN ON PLAN, but there are no elevations listed. Could you provide an US Footing elevation?

Answer 24:

Niagara Region confirms that Top of Footing shall be -1.150m from finished floor elevation. Please refer to A301 – Building Sections - Revision F Appendix D Issued for Tender Package Drawings.

Question 25:

Is there a cross section (blow up ,small scale) available for Aluminum Patio Decorative Screen “EL9” ,indicating structure framing ,aluminum panel veneers , thicknesses , finish of aluminum ,diameter of holes? Possibly a spec on the products . Dimensions, height?

Answer 25:

Please refer to Addendum #1 for product scope. Dimensions are provided on A111 & A202.

Question 26:

Questions regarding all roof flashings, ACP flashings, Masonry flashings, as follows.....

- a) All roof parapet details indicate “prefinished metal cap flashing” We presume roof parapet flashings will be as per 07 62 00 item 2.1, .45 mm (24 gauge) steel, the spec indicates “Dofasco, Galvalume”. Would the flashings be preprinted. possibly Per spectra plus series? There are 2 colors required per the drawings, can you pick the paint colour number from the colour chart, as I don’t think we want to be responsible if we have to match the aluminum composite panels. Please confirm that we are not providing “formed aluminum flashings” for the roof parapets, per item 2.21mm duranar coated aluminum sheet.
- b) Typically, roof parapet blocking wood be designed as a solid wood surface to provide a continuous support for a 24-gauge cap flashing. Current details show various metal clips (one on the stud wall and one behind the ACP) with what appears to be cleats under the metal flashing. Can we substitute continuous wood blocking in lieu of the current roof parapet details? We want to eliminate oil canning, and/or denting, in case the parapet is stepped on.
- c) Refer to division ACP, 07 42 43 item 2.3.6.4 ... is it the intent to use .75 mm stainless steel flashing wherever flashings are shown as part of the ACP system? (typically, at sills ,2/A706, & 1,3,4,6 /A708 etc.). If not please describe the flashing material, gauge, and colour from colour chart number
- d) Masonry prefinished exposed metal flashings (mostly at sill plates and above doors) Can you confirm that we are providing 24 gauge prepainted steel flashings, likely -perspectra series? and the colour or other?

Answer 26:

Niagara Region confirms the following:

- a) Yes, 24-gauge pre-painted metal flashing to match the siding or ACM panel colour is acceptable. Perspectra plus is acceptable. Formed aluminum (ACM) caps are NOT required.
- b) Yes, Wood blocking with a sloped plywood cap is acceptable.
- c) 24-gauge pre-painted metal flashing to match the siding or ACM panel colour is acceptable.
- d) Yes, 24-gauge pre-painted metal flashing to match the siding or ACM panel.
- e) Yes, acceptable.

Question 27:

Electrical questions from our generator manufacturers that require clarification:

1) Please confirm if a 73dba generator enclosure will be acceptable in lieu of 72dba.

Answer 27:

Niagara Region confirms a 73dba generator enclosure is acceptable.

Question 28:

2) Please confirm if a 75dba generator enclosure meeting MOE will be acceptable in lieu of 72dba.

Answer 28:

Niagara Region confirms a 75dba generator enclosure is acceptable.

Question 29:

We did a quick review on the specs drawings and found that it will be for supplying 800KW (standby rated) Outdoor emergency diesel generator inside walk-in enclosure Regarding the prime rated, specs section 26 32 13 shows 640KW prime rated. However, SLD shows 725KW.

a. Our question is (in case 725KW prime name plate is required): Our KD800 will have output 800KW Standby rating and 720KW prime rated at 600V, so will it be acceptable? Or we will need to upsize it to our KD900 (KD900 output is 900KW standby and 810KW prime rated)

On the other hand, I believe ATS specs are not included in the shared files if I am not wrong, so can you kindly share it please.

Answer 29:

Please review the documents as the question above does not appear to be for this project. The specified generator is 500KW.

Question 30:

(Security system Platform)

- a. Is the new location to be added to an existing Genetec platform or is it to be a new platform Genetec system?
- b. If the location is to be added to an existing system, can you please provide the GSC number?

Answer 30:

Niagara Region confirms the following:

- a. The new security location is to be added to the existing security platform. The owner must confirm if the existing platform is Genetec.
- b. CCTV cameras, access control, and intrusion detection are shown on the drawings. The contractor must supply and install the security devices indicated on the drawings and supply the associated licenses as required.

Question 31:

(27 51 23 Intercom System section 2.1)

- a. (a) Is the Security Contractor to provide pricing for the JP-4MED supply and installation?
- b. Will the intercom require a sipelia licence for integration to Genetec?

Answer 31:

Niagara Region confirms the following:

- a. Yes, the security contractor is to provide pricing for the JP-4MED supply and installation.
- b. The contractor must supply a license for integration with the security platform as required.

Question 32:

(28 23 00 – section 2.5 CCTV Camera VMS, NVR and License)

- a. Please confirm CCTV licences is for GENETEC platform

Answer 32:

Niagara Region confirms that the contractor must provide CCTV licenses as required. The owner will confirm if the security platform is GENETEC.

Question 33:

8) (28 23 00 Access Control Systems section 2.10)

a. Security Requirements Document – Electric door locking hardware (electric mortise locks, electric strikes, etc.) shall be provided by the security Contractor. Please confirm.

Answer 33:

Please refer to Door Hardware Schedule for clarification.

Question 34:

AECOM New Hardware schedule - 08 71 00 Names hardware supplier as the provider – of Electric door Locking hardware

a. (b) Please clarify which contractor will be responsible for providing the Electric door locking hardware.

b. Will the frames for installation the Electric door strike hardware come precut?

Answer 34:

Niagara Region confirms that the hardware schedule, dated January 14th, identifies the discipline responsible for supplying the individual components. The GC shall confirm that all components are included as per the hardware schedule.

Question 35:

(28.31.00 Intrusion Alarm Systems 2.3 Door contacts) Security Requirements Document

a. All door contacts are to dedicated for the IAS. They are to be provided by the Door Hardware supplier. Please confirm.

Answer 35:

Please refer to response to Question 34.

Question 36:

AECOM New Hardware schedule - 08 71 00

a. Names security supplier as the provider – 101a,101b,112 for DCA. Please confirm.

b. Hardware Schedule does not name – 101a,101b,112,103C as supplier of DCB. Please confirm.

c. Please clarify which contractor will be responsible for providing the DCB 101a,101b,112,103C

Answer 36:

Niagara Region confirms the Access Control/Security Contractor shall provide the components necessary for a functional system as per DWGs E801, E802, E803, E804, E806, and E807.

Question 37:

AECOM New Hardware schedule - 08 71 00 Door# 112

- a. By security supplier ask for Magnetic lock and Pull Station
- b. Drawing E803 - ACCESS CONTROL RISER DIAGRAM AND SCHEDULE Door #112 shows as Electric Strike.
- c. Please confirm which type of lock mechanism is required for Door #112
- d. If a maglock and pull station is required for door #112, please identify the location of the key switch

Answer 37:

Niagara Region confirms that the Magnetic Lock is not required for door #112; Please follow E803 for Door#112.

Question 38:

Extended Warranty up to five (5) years SMA ACS

- a. Please confirm that the ADV program 5 years is for GENETEC owner all existing and new site.

Answer 38:

Niagara Region confirms that service agreements will be reviewed and coordinated by the owner post-construction. Do not include them in the base bid.

Question 39:

Extended 4-year service/maintenance agreements – ACS – CCTV – IAS

- a. Should we submit pricing for an extended/maintenance agreement program as optional cost?
- b. If not, should we submit pricing for an extended/maintenance be included as submittal for Project: 6068629?

Answer 39:

Please refer to response to Question 38.

Question 40:

26 32 05 Genset Enclosure

a. Is the intent to provide a CUSTOM enclosure? There are lots of requirements in this spec section that would not enable the use of a manufacturer's standard enclosure. Please clarify since a custom enclosure would significantly increase the cost of the generator package.

Answer 40:

Niagara Region confirms that the intent is to provide a manufacturer provided enclosure that meets the performance requirements. Custom enclosures are not desired.

Question 41:

Please confirm that there is no requirement for the supply of a mobile generator.

Answer 41:

Niagara Region confirms that as part of the relocation of the existing generator scope of work, include for a mobile generator to maintain the back-up capabilities of the system until the relocated generator is commissioned and operational.

Question 42:

continued from electrical:

Due to current workload and quantity of tenders we are respectfully requesting an extension to the RFI submittal date of 1 week.

Answer 42:

Niagara Region will not extend the submission deadline.

Question 43:

The insulation that is directly under the concrete floors. Do we supply as per division 07 21 13, 2.3.3. Under slab insulation Styrofoam SM type 4 or would the insulation be considered "load bearing" (per item 2.3.4) Styrofoam Hiloal 60 ?

Answer 43:

Please refer to Section 2.3.3 Under Slab.

Question 44:

Please confirm that the Digital and Analog inputs/outputs shown for Typical CRAC Unit on M513 are Virtual Points from BACnet integration to the CRAC BACnet interface, and not hardwired points.

Answer 44:

Niagara Region confirms that the intent is for the CRAC unit to be supplied with an OEM controller complete with- BACnet IP interface/gateway and for all input/output points to be integrated virtually into the BAS. A hardwired point would only be required if a specific point could not be passed through the interface/gateway. For example, some manufacturers may use a separate leak detection controller that is only available as hardwired points.

Question 45:

Heating Boilers are complete with Cascading Controller with BACnet interface. Please confirm if the points shown for Heating Boilers on M514 are all hardwired points, shown as typical for each boiler, or if it is acceptable to capture the status/monitoring points (DI and AI) for both boilers through BACnet integration to the Cascading Controller.

Answer 45:

Niagara Region confirms that the intent is for the boiler to be supplied with an OEM controller complete with BACnet IP interface/gateway and for all input/output points to be integrated virtually into the BAS. A hardwired point would only be required if a specific point could not be passed through the interface/gateway.

Question 46:

Chillers are complete with Cascading Controller with BACnet interface for the 3 Chiller modules. Please confirm if the points shown for Chillers on M514 are all hardwired points, shown as typical for each chiller, or if it is acceptable to capture the status/monitoring points (DI and AI) for all 3 modules through BACnet integration to the Cascading Controller.

Answer 46:

Niagara Region confirms that the intent is for the chiller to be supplied with an OEM controller complete with BACnet IP interface/gateway and for all input/output points to be integrated virtually into the BAS. A hardwired point would only be required if a specific point could not be passed through the interface/gateway.

Question 47:

Please confirm if the points shown for Pump VFDs on M514 are all hardwired points, or if it is acceptable to capture points the alarm/feedback points (DI and AI) through BACnet integration.

Answer 47:

Please refer to response to Question 45.

Note: A hardwired point would only be required on a VFD if the point is installed for safety purposes. IE. If a fan has been provided with a damper end switch and/or fire alarm contacts those points shall be hardwired to the VFD.

Question 48:

Please confirm that Gas Meters are to be provided by BAS.

Answer 48:

Niagara Region confirms that the only gas meter on the project is provided by the utility. The contractor shall integrate the utility meter into the BAS, or if contacts for the BAS are not available on the meter, they will provide their own meter as specified in Section 25 00 00.

Question 49:

Please provide the size for the locker, doesn't show on drawing or in Spec?

Answer 49:

Niagara Region confirms that the lockers are 1600mm wide, double stacked. Shown on A404 – Enlarged Plan and Details – Corridors – Appendix D – Tender Package Drawings.

Question 50:

Drawing A003 (Roofing Schedule) calls for 5/8" Gypsum Board but the spec, 07 52 16 – 2.3 - 3.1.1 calls for a 1/2" Gypsum board. Please confirm which product to price this project with.

Answer 50:

Niagara Region confirms that the bidder shall provide 1/2" board as per the specification.

Question 51:

The product section specifies a ½" Gypsum Board with a primed, ready surface for a torch-applied base sheet. However, the specified base sheet is mop grade with a sanded bottom and thermofusible top. Can you confirm if this is the correct product for pricing or should an alternate cover board, such as ¼" Sopra board, be considered?

Answer 51:

Please refer to Section 2.3.7 regarding coverboard.

Question 52:

The exterior section details indicate that the top of the parapet wall does not include plywood sheathing or wood blocking. To properly install the waterproofing membrane and metal cap flashing, we require an adequate solid surface. Can you confirm if plywood sheathing and wood blocking should be included? Please refer to Detail A706 for reference

Answer 52:

Niagara Region confirms that the bidders shall provide wood parapet cap. Please refer to Sketch – Ref -Typ. Parapet. As per the typical detail plywood sheathing is understood to be applied to all parapet details shown within the Architectural Tender Drawings.

Question 53:

Drawing A003 (Roofing Schedule) calls for R49 insulation, but the specified thickness (200mm) only provides R47.2. Please verify the required insulation thickness for this project.

Answer 53:

Niagara Region confirms that the bidders required insulation thickness for this project is 200mm.

Question 54:

The specification states that the insulation is to be mechanically fastened, but it does not clarify how multiple layers of insulation should be installed. Please elaborate on the required installation per layer of insulation to ensure compliance with the design intent

Answer 54:

Niagara Region confirms the total thickness of the insulation shall be 200mm provided in a minimum of 2 layers. Layers shall be orientated so the joints are offset.

Question 55:

The vapour barrier specification calls for a self-adhesive membrane (Sopravap'R). However, this type of vapour barrier is incompatible with a mop system installation, as it would melt under application. Please provide an alternative vapour barrier that is suitable for a mop grade installation.

Answer 55:

Please consult the manufacturers' system literature.

Question 56:

The architectural drawings do not indicate any cant strip details at inside edges of the roof perimeter, nor is it mentioned in the roofing specifications. Could you please verify if a fibre can't strip is required for the installation of the mop grade base sheet?

Answer 56:

Niagara Region confirms the bidder shall provide a fibre can't strip around the perimeter of the roof levels.

Question 57:

Is there a preferred Security Contractor for Access Control, Intrusion Alarm and CCTV?

Answer 57:

Niagara Region confirms there is no preferred Security Contractor for Access Control Intrusion Alarm and CCTV. However, any carried contractor for the above noted system shall carry current licenses/certifications for the systems as specified within Appendix E – Tender Package Specifications.

Question 58:

Is there a preferred Data / Communications contractor?

Answer 58:

Niagara Region confirms there is not a preferred Data/Communications Contractor. However, all bidders shall ensure carried Data/Communications contractors are certified/licensed to install/provide systems as outlined within Appendix E – Tender Package Specifications.

Question 59:

What Exactly is included in the Cash Allowance for Removing Generator \$80,000?

Answer 59:

The scope of work, as described in Note 7 on Drawing E101, includes diesel fuel for 24 hours of emergency run time for the temporary generator.

Question 60:

Is Electrical Contractor to provide Welland Hydro Transformer Vault or will it be included in the cash allowance?

Answer 60:

Niagara Region confirms that the electrical contractor to include the transformer vault. Welland Hydro scope is summarized below.



W

WORK DESCRIPTION FOR:**New 600A -347/600V UG Service**

5 Lincoln Street

WORK INSTRUCTIONS:

Welland Hydro to:

- Supply and Install 1 x 500kVA - 347/600V transformer.
- Supply and Install approximately 650m of 1/0 Al. 28KV primary cable in customer installed duct.
- Supply and Install fusing and primary riser hardware at 1 riser pole.
- Complete terminations at transformer & riser pole.
- Complete secondary cable connections
- Provide staff to inspect trench/duct

* Customer is responsible for all civil construction and grounding.

OVERHEAD CREDIT (if applicable)

TRANSFORMER CREDIT (if applicable)

Question 61:

What are the Mobile Generator Specs required on the single line diagram?

Answer 61:

Niagara Region confirms a mobile generator not included in scope. Mobile generators tap box to be rated for 600A,600V, 3-phase, 4-pole. Please refer to specification section 26 32 00 Genset Connection Boxes and Load Banks Clause 2.1.

Question 62:

Section 28 13 00 and section 28 31 00 denotes field quality control clauses that involve manufacturer verification. To what extent do manufacturers need to be included? Is every device manufacturer required to verify products and installation?

Answer 62:

Niagara Region confirms that the extent of manufacturer involvement to be determined between Contractor and manufacturer. The intent of the clause is to ensure that products are installed by a trained/certified Contractor in accordance with manufacturer requirements such that warranties and certifications are provided as required.

Question 63:

NRPS Cabling spec denotes WAP to be supplied, installed and commissioned by contractor. However, specifications for desired system not included in cabling specs document or specifications in section 27 at any point other than reiterating this statement in Section 27 10 05. Is this item being connected to an existing system? If so, what make and models? If not, what other components are required?

Answer 63:

Niagara Region confirms that the cabling of WAP shall be supplied and installed as per Section 27 10 05, item 2.18 WiFi System, following CAT6A cabling requirement. The WiFi system will be a stand-alone system, no connection with an existing system. Contractor is to provide a complete and functional WiFi system consisting of WAPs, CAT6A cabling, conduits, pathways, licences and headend equipment, and accessories as required.

Question 64:

Spec section 28 31 00 describes redundance for systems to be on separate servers. In speaking with vendor for existing building, it appears that there is

confusion on whether this calls for a complete backup of existing system or just roles. Outlined in Section 28 23 00 states system shall be compatible with existing. This will significantly impact server pricing and capabilities. What is the intent of server installation and which models are therefore required.

Answer 64:

Niagara Region confirms that the CCTV server required will serve the new building only. It will be connected and compatible with exiting system and backup by the existing system.

Question 65: Section 28 13 00 contains wording regarding the both SMA and service/maintenance spanning 5 years after substantial. Is this interpreted as meaning included submitted price or proposed option? Description appears to be an ad hoc service and predetermined maintenance package without specific indication of which option is preferred. Section 28 23 00 also shows similar clause. Section 28 31 00 is also similar.

Answer 65:

Please refer to response to Question 38.

Question 66:

E201, drawing note 4. Please confirm total length of fixture.

Answer 66:

Niagara Region confirms total length of fixture is 1500 mm.

Question 67: E201, drawing note 5. Please confirm total length of fixture.

Answer 67:

Please refer to response to Question 66.

Question 68: Please confirm if fixture type LL10 is required as it cannot be found on the floor plans. If required, please confirm their locations.

Answer 68:

Please refer to E201, fixture locations are shown.

Question 69: E 901, Please confirm location of the new load bank as it cannot be found on the floor plans.

Answer 69:

Niagara Region confirms that the bank to be located outdoors adjacent to the relocated generator.

Question 70:

E901. Please confirm that the mobile diesel generator and associated gen tap box are existing. Please also confirm location of the tap box as it cannot be found on the drawings.

Answer 70:

Niagara Region confirms that the tap is to be located adjacent to the relocated generator.

Question 71:

E101. Please confirm that the primary duct bank will extend to the property line only and that the road crossing to the existing hydro pole will be completed by others.

Answer 71:

Niagara Region confirms that the above scope of work shall be provided by the successful contractor under this tender.

Question 72:

E101, HV duct bank refers to drawing ACAD-732. Please provide drawing ACAD-732 as its not part of the package.

Answer 72:

Niagara Region confirms that the ACAD-732 is provided on E102 – Electrical Details Revision 6 - Appendix – D – Tender Package Drawings.

Question 73:

E701, Call/Dispatch 103:

- a. Please confirm if the floor boxes are to be recessed in the slab on grade or if they are to be recessed in the raised floor tiles as the floor boxes shown are shown in different locations compared to E301 and the legend shows them as floor mounted.
- b. Please confirm if these floor boxes are to be combined with the power boxes recessed in raised flooring or if they are to remain separate.

- c. Please also provide make and model number.

Answer 73:

Niagara Region confirms the following:

- a. Recessed into the raised access floor.
- b. Each call/dispatch desk has two floor boxes labelled on drawings as "FP1" for power and "FP2" for data. These floor boxes are to remain separate. These floor boxes are recessed into raised access floor.
- c. Refer to specification section 26 27 28 – Appendix E – Tender Package Specification for make and model number and list of acceptable manufacturers.

Question 74:

E401. Please confirm what this symbol is as it is not shown on the legend.



Answer 74:

Niagara Region confirms that the symbol is for Fire Alarm Bell.

Question 75:

E401. Please confirm what this symbol is as it is not shown on the legend



Answer 75:

Niagara Region confirms that the symbol is for Fire Alarm Horn.

Question 76:

Please confirm that the Emergency Generator Relocation cash allowance of \$80,000 encompasses the entire scope of work as per E101, drawing note 7.

Answer 76:

Niagara Region confirms the allowance may or may not address the entire cost of the generator relocation. This will need to be coordinated with the successful contractor.

Question 77:

Can White PVC Jacketing be used in lieu of the specified Colour PVC Jacketing for the piping systems? The reason for the request is that the specification has a Section 20 05 53 for labelling and identifying the piping systems. If Colour PVC Jacketing is required, please note that the Coloured PVC does not come 15 mil thickness. The Coloured PVC comes in 20 mil or 30 mil thickness. Please advise which thickness

Answer 77:

Niagara Region confirm white PVC jacketing may be used in lieu of coloured PVC provided that a sufficient number of pipe markers are installed and visible. All exposed piping should be identifiable without changing rooms.

Question 78:

Will the Buffer Tanks for the Heating and Cooling Systems require thermal insulation c/w jacketing. If required, please provide the insulation specification for the Buffer Tanks.

Answer 78:

Niagara Region confirms that all heating water and chilled water equipment shall be insulated and jacketed unless listed specifically listed under 20 07 00; 3.1(1). Insulation may be 40mm (1.5") thick blanket type fibreglass, or flexible elastomeric. Ensure a vapour barrier is provided for all chilled water equipment.

Question 79:

It appears the Heating System Piping on Drawing M601 and the Schematics on Drawing M503 are different. Please review and advise.

Answer 79:

Niagara Region confirms that both drawings M601 and M503 will be reviewed and updated as necessary in a future addendum.

Question 80:

I have been working on this tender and they have some contradictory specs for the comm. cabling and equipment. Could we please reach out to them to clarify which manufacturers will be approved/prioritized?

The details I am referencing are pulled from two documents: **App. E - Tender Pkg Specs**, and **App. J - NRPS Cabling**

Answer 80:

Please refer to specification section 27 10 05 (including addendum #2) item 2.1.2 and 2.8.2 for the approved cabling manufacturer.

Question 81:

Can White PVC Jacketing be used in lieu of the specified Colour PVC Jacketing for the piping systems? The reason for the request is that the specification has a Section 20 05 53 for labelling and identifying the piping systems. If Colour PVC Jacketing is required, please note that the Coloured PVC does not come 15 mil thickness. The Coloured PVC comes in 20 mil or 30 mil thickness. Please advise which thickness?

Answer 81:

Please refer to the response to Question 77, above.

Question 82:

Will the Buffer Tanks for the Heating and Cooling Systems require thermal insulation c/w jacketing. If required, please provide the insulation specification for the Buffer Tanks.

Answer 82:

Please refer to the response for Question 78, above.

Question 83:

It appears the Heating System Piping on Drawing M601 and the Schematics on Drawing M503 are different. Please review and advise.

Answer 83:

Niagara Region confirms piping shall be as per drawing M503 - Schematic – Heating Water & Chilled Water – Appendix D – Tender Package Drawings Revision 2, with the boiler piped in series (sidecar orientation) with the ASHP, drawing M601- Mechanical Room, Revision 6 – Appendix D – Tender Package Drawings will be updated to match our issued for construction (IFC) set.

Question 84:

I am having my installation team fill out the background check form. It is asking for;

- NRPS Hiring Unit: ?

- NRPS Contact Name:?

Answer 84:

Niagara Region confirms this information will be provided to the successful bidder during the contract award process.

Question 85:

The 911 backup centre job has this paragraph in the spec: a Section 28 31 00 Intrusion Alarm Systems Page 7 of 9

The issue is that there will be no servers on this project as the DSC Intrusion doesn't have one and the Access Control is, as far as we are aware, all Genetec with central servers. You also have to be a Genetec partner to be able to do this job if that is the case. Can you please confirm that this is indeed Genetec as both the ACS and CCTV will be managed by that software if that is true.

Answer 85:

Niagara Region confirms Genetec as both the ACS and CCTV.

Question 86:

While it is a new build, there is an existing facility on the premise and the general notes on E502 has stated : We may have to carry the same F/A manufacturer to meet this criteria.

Answer 86:

Niagara Region confirms the acceptable fire alarm manufacturers for new fire alarm system are listed in spec section 28 46 00 clause 2.02.25. General notes on E502 - Fire Alarm Riser Diagram - Appendix D – Tender Package Drawings Revision 2 states if any inspection or modification is made in existing facility to retain services of existing fire alarm system.

Question 87:

Please advise make and model of current security VMS/NVR

Answer 87:

Please use Genetec for the VMS. The new site will be added to the existing system.

Question 88:

Just be notified we are still missing concrete reinforcing plan, details or a schedule for foundation wall.

Answer 88:

Please refer to S002 – Typical Details (1) - Appendix D – Tender Package Drawings.

End of Addenda