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**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

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Title - Sujet Const.Refection Centres-PN Forillon	
Solicitation No. - N° de l'invitation 5P204-180864/A	Amendment No. - N° modif. 006
Client Reference No. - N° de référence du client	Date 2019-04-26
GETS Reference No. - N° de référence de SEAG PW-\$QCM-039-17637	
File No. - N° de dossier QCM-8-41212 (039)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2019-05-09	Time Zone Fuseau horaire Heure Avancée de l'Est HAE
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Jean, Serge	Buyer Id - Id de l'acheteur qcm039
Telephone No. - N° de téléphone (418) 649-2882 ()	FAX No. - N° de FAX (418) 648-2209
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: PARC NATIONAL DE FORILLON 122, Boulevard de Gaspé G4X 1A9	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
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Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

**AMENDMENT 006
INVITATION TO TENDER**

**OPERATIONAL CENTER REHABILITATION AND CONSTRUCTION OF
AN ADMINISTRATIVE BUILDING - PARC FORILLON (QUÉBEC)**

The purpose of Amendment 006 is to answer questions, to postpone the closing date and to add addenda.

Please apply the following changes to the Invitation to tender (ITT):

- 1) Questions and Answers 57 to 87
- 2) Postpone the closing date
- 3) Add addenda

1) Questions and answers:

	QUESTIONS/QUESTIONS	RÉPONSES/ANSWERS
57 (FR)	<p>Dans le devis nous devrions fournir des pièces de rechange, section 08 36 13.16 page 2. Pièces de rechange :</p> <ol style="list-style-type: none">1) les panneaux2) les galets3) les coupes bises4) les ressorts et câbles <p>Il y a plusieurs grandeurs de porte. Ma question : combien de section, de galets, coupe bise, ressorts et câbles ?</p>	<p>Aucun panneau de rechange n'est à fournir. Fournir un (1) élément de chaque type (galet; coupe-bises; ressorts et câbles) pour chacune des portes.</p>
57 (EN)	<p>In the specifications, spare parts have to be provided, section 08 36 13.16 page 2. Spare parts :</p> <ol style="list-style-type: none">1) panels2) the rollers3) kissing cuts4) springs and cables	<p>No spare panels are required. Provide one (1) element of each type (roller; weatherstripping; springs and cables) for each door.</p>

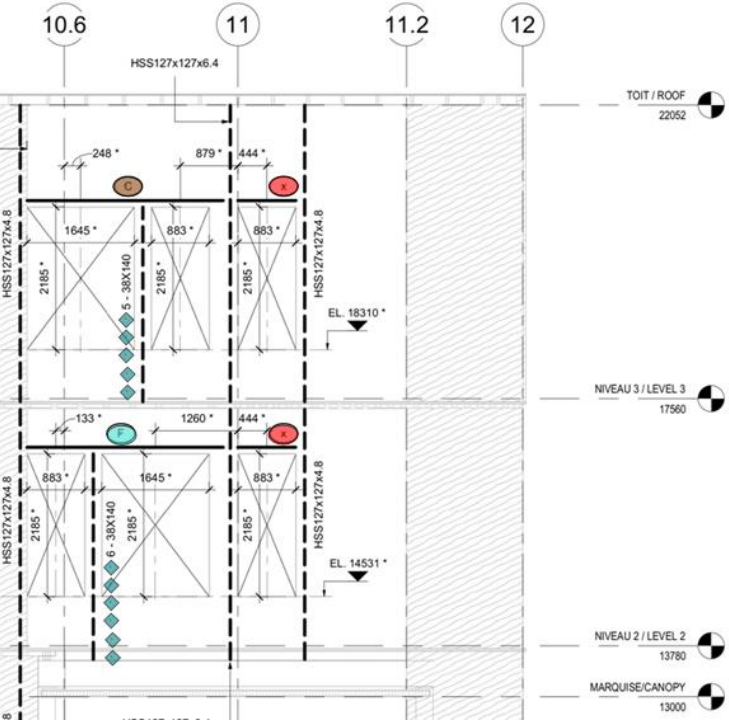
	There are several door sizes. My question: how many sections, rollers, bevel cuts, springs and cables?	
58 (FR)	<p>À la section 07 21 16, il est spécifier un isolant de laine minérale en fibre de roche de type ROCKWOOD, COMFORTBOARD 110. Ce type d'isolant ce fait seulement en épaisseur de [25] [32] [50] [65] [76] mm. Sur les plans, en composition ME-1 exemple que la feuille A300 du bâtiment BA, il est spécifier un "Isolant semi-rigide de laine de roche (RSI 3.9) 140mm"</p> <p>1) Est-ce que vous voulez avoir deux épaisseurs de 65 mm pour un total de 130 mm ? RSI 3,52 (R20) au total ?</p> <p>2) Est-ce que vous voulez avoir deux épaisseurs de 76 mm pour un total de 152 mm ? RSI 4,23 (R24) au total ?</p> <p>3) Ou proposé un autre type d'isolant ?</p>	<p>Deux types d'isolants sont à fournir :</p> <ul style="list-style-type: none"> - COMFORTBOARD 110 : 1 épaisseur de 50mm - COMFORTBATT : 1 épaisseur de 140mm
58 (EN)	<p>In section 07 21 16, it is specified a mineral wool insulation of rock fibre type ROCKWOOD, COMFORTBOARD 110. This type of insulation is only made in thicknesses of [25][32][50][65][65][76] mm. On the plans, in ME-1 composition, example that the A300 sheet of the BA building, it is specified a "Semi-rigid rock wool insulation (RSI 3.9) 140mm".</p> <p>1) Do you want to have two thicknesses of 65 mm for a total of 130 mm? RSI 3.52 (R20) in total?</p> <p>2) Do you want to have two thicknesses of 76 mm for a total of 152 mm? RSI 4.23 (R24) in total?</p> <p>3) Or did you propose another type of insulation?</p>	<p>Two types of insulation are to be provided:</p> <ul style="list-style-type: none"> - COMFORTBOARD 110: 1 thickness of 50mm - COMFORTBATT: 1 thickness of 140mm
59 (FR)	<p>Architecture</p> <p>Au plan A300 du bâtiment BA, j'aimerais avoir quel modèle vous désirez avoir au niveau de la membrane insonorisante 8mm tel que mentionné à la composition PL-1 ?</p>	Voir question n. 16; sera précisé en addenda.
59 (EN)	<p>Architecture</p> <p>On the A300 plan of the BA building, I would like to know which model you want to have on the 8mm soundproofing membrane as mentioned in the PL-1 composition?</p>	See question n. 16; will be specified in addendum.

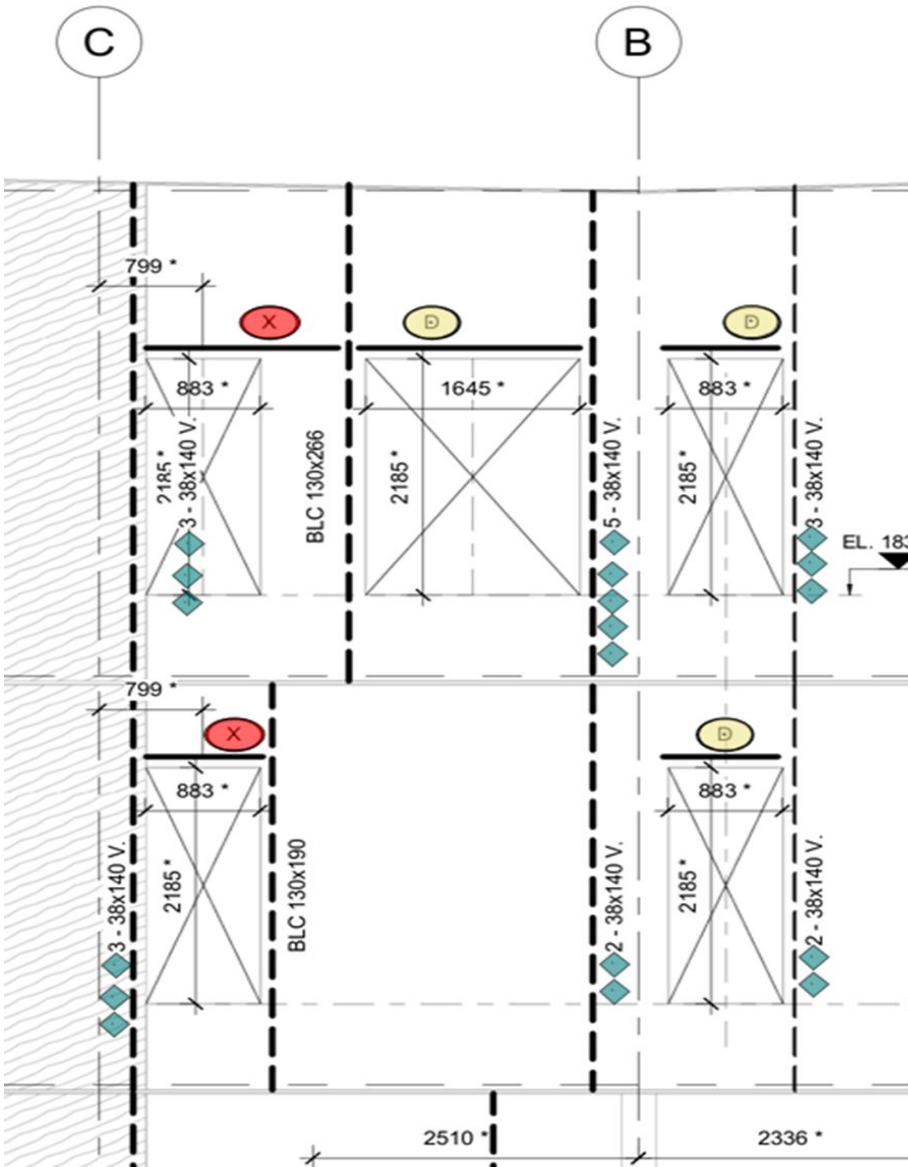
60 (FR)	<p>Architecture</p> <p>À la section 07 21 13, l'isolant Foamular C-600 de Owens Corning canada n'existe pas en</p> <p>2 ½" (64mm) tel que demandé au plan à la composition PL-1 et MF-1 à la page A300 du</p> <p>bâtiment BI. SVP précisez l'épaisseur voulue entre 1po, 1 ½po, 2po ou 3po ?</p> <p>Sinon</p> <p>précisez une combinaison d'isolant ?</p>	<p>3 pouces. Voir correction dans l'addenda A02.</p>
60 (EN)	<p>Architecture</p> <p>In section 07 21 13, Owens Corning Canada's Foamular C-600 insulation does not exist in</p> <p>2 ½" (64mm) as requested on the plan at PL-1 composition and MF-1 on page A300 of the</p> <p>BI building. Please specify the desired thickness between 1", 1 ½po, 2" or 3"? Otherwise</p> <p>specify a combination of insulation?</p>	<p>3 inches. See correction in Addendum A02.</p>

61
(FR)

Pourriez-vous nous fournir le type de linteau avec la mention "X" sur les
feuille S-851 et S-852 du bâtiment BA ?

Sera clarifié à l'addenda S03.





61
(EN)

Could you provide the type of lintel with the mention "X" on sheets S-851 and S-852 of the BA building?

Will be clarified in the addendum S03.

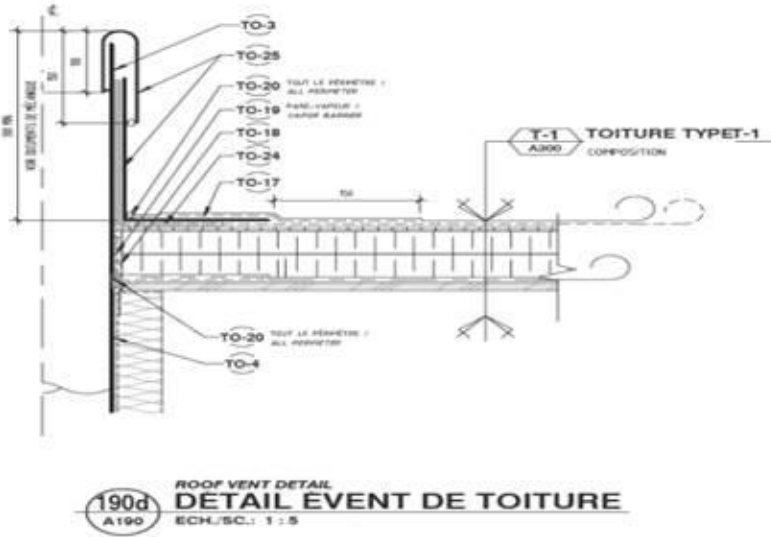
62 (FR)	<p>J'aimerais avoir plus d'information au niveau du système de contreventement avec système "ATS" et "HDU" de Simpson tel que mentionné à la page S-911 du bâtiment BA :</p> <ol style="list-style-type: none"> 1. Quel diamètre de la tige ATS ? Pourriez-vous précisez svp ? 2. Est-ce que vous êtes capable de nous fournir la combinaison d'éléments que vous voulez pour chaque section de tige ? Pourriez-vous précisez svp ? <ol style="list-style-type: none"> a. RTUD ? b. BPRTUD5-6A ? c. ATUD / TUD ? d. Ancrage SAR et ABL ? 3. Nous fournir le modèle des ancrages au béton (HDU) <ol style="list-style-type: none"> a. HDU8 ? HDU11 ?, HDU14 ? Pourriez-vous précisez svp ? 	<p>La conception de ces systèmes d'ancrage est de la responsabilité du fournisseur de bois. L'approche utilisée pour l'élaboration des connecteurs est propre au fournisseur, ainsi que le type de produit préconisé. Une note à cet effet fera l'objet de l'addenda S03.</p>
62 (EN)	<p>I would like more information on Simpson's "ATS" and "HDU" bracing system as mentioned on page S-911 of the BA building:</p> <ol style="list-style-type: none"> 1. What diameter of the ATS rod? Could you please specify? 2. Are you able to provide the combination of elements you want for each stem section? Could you please specify? <ol style="list-style-type: none"> a. RTUD? b. BPRTUD5-6A? c. ATUD / TUD? d. SAR and ABL anchoring? 3. Provide the model of concrete anchors (HDU) <ol style="list-style-type: none"> a. HDU8? HDU11?, HDU14? Could you please specify? 	<p>The design of these anchoring systems is the responsibility of the wood provider. The approach used for connector development is specific for the provider, as is the type of product recommended. A note to this effect will be the subject of addendum S03.</p>

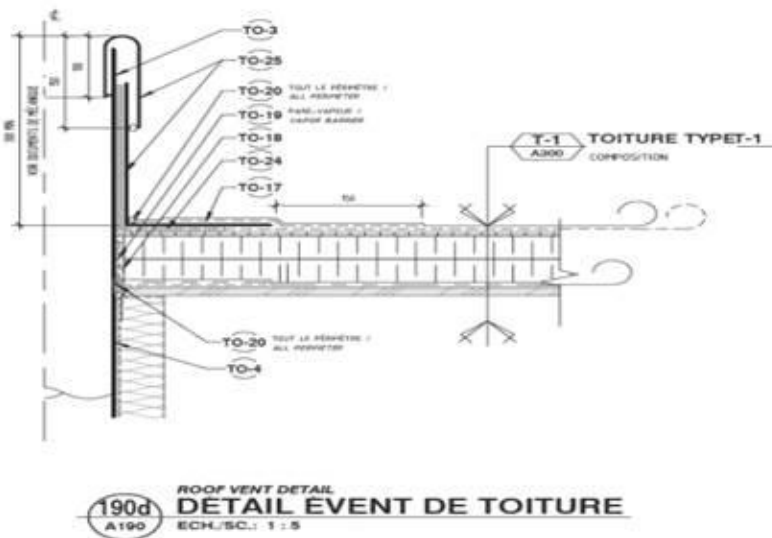
	QUESTIONS/QUESTIONS	RÉPONSES/ANSWERS
63 (FR)	Devis architecture section 09 72 16 : où est localisé ce type de finis car non indiqué au tableau des finis ?	La section 09 72 16 a été supprimée dans l'addenda A02. Voir section 10 10 00 Spécialités, article 2.2.
63 (EN)	Architecture specifications section 09 72 16: where is this type of finish located because it is not indicated in the finish table?	Section 09 72 16 has been deleted in Addendum A02. See section 10 10 00 Specialties, article 2.2.
64 (FR)	Devis architecture section 07 46 19, article 2.2.2 et 2.2.3. : est-ce que ces types de revêtements s'appliquent au projet ?	Précisé dans l'addenda A02
64 (EN)	Architecture specifications section 07 46 19, article 2.2.2.2 and 2.2.3: do these types of coatings apply to the project?	Specified in Addendum A02
65 (FR)	J'aimerais avoir plus de détail sur "les endroits désignés par le Représentant du Ministère" concernant l'enlèvement de la neige pendant toute la durée des travaux tel qu'indiqué au point 1.9.1 de la section 01 52 00.	Sera précisé dans l'addenda A03
65 (EN)	I would like to have more details on "the areas designated by the Departmental Representative" regarding snow removal throughout the work as indicated in point 1.9.1 of section 01 52 00.	To be specified in Addendum A03
66 (FR)	J'aimerais avoir plus de détail sur les zones d'accès concernant le déneigement tel que mentionné au point 1.9.3 de la section 01 52 00.	L'entrepreneur est responsable du déneigement des zones de travaux, d'entreposage temporaire et d'accès sous sa responsabilité, incluant la route d'accès à partir de l'intersection de la route 132 jusqu'au site des travaux. Sera précisé dans l'addenda A03.

66 (EN)	I would like to have more details on the access areas for snow removal as mentioned in point 1.9.3 of section 01 52 00.	The contractor is responsible for clearing snow from the work areas, temporary storage and access under his responsibility, including the access road from the intersection of Route 132 to the work site. Will be specified in Addendum A03.
67 (FR)	Puisque le Parc Canada est le maitre d'ouvrage, selon la loi sur la CNESST, vous devez être responsable concernant l'embauche de l'agent de prévention pendant la durée des travaux. Qui est responsable de l'embauche et de défrayer les coûts pour l'agent de sécurité sur ce projet ? Confirmer SVP ?	Selon la LSST, c'est le maître d'œuvre (et non le maitre de l'ouvrage) qui est responsable de l'agent de sécurité.
67 (EN)	Since Park Canada is the owner, under the CNESST Act, you must be responsible for hiring the prevention officer for the duration of the work. Who is responsible for hiring and paying the costs for the security guard on this project? Please confirm?	According to the LSST, it is the prime contractor (and not the project owner) who is responsible for the safety officer.

	QUESTIONS/QUESTIONS	RÉPONSES/ANSWERS
68 (FR)	Concernant le devis partie mécanique de procédé; est-ce possible d'avoir l'analyse d'eau brute pour faire la bonne sélection de nos matériels ?	Oui, voir pièce jointe
68 (EN)	Concerning the specifications of the mechanical part of the process; is it possible to have the raw water analysis to make the right selection of our equipment?	Yes, see attachment.
69 (FR)	Concernant le devis partie mécanique de procédé, Devis Section 44 10 00, Partie 2.1 Échangeur D'ion, Point #2.1.3.5 ainsi que Point #2.1.4.2 ne correspond pas vraiment au modèle CP210S oD. de puribec tel que mentionné au devis point #2.1.8 puisque ce dernier a seulement une capacité de 1.5 ft3 :	Le bon modèle est le suivant : Hydrus HS 218s OD. Voir addenda C04

	<p>CP 210s OD</p> <p>21.1 - 31.6 gpm</p> <p>12.0 - 19.0 gpm</p> <p>10" x 54"</p> <p>1.5 ft³</p> <p>Pourriez-vous clarifier ?</p>	
69 (EN)	<p>Regarding the mechanical process part specification, Specifications Section 44 10 00, Part 2.1 Ion Exchanger, Point #2.1.3.5 and Point #2.1.4.2 do not really correspond to the puribec CP210S oD. model as mentioned in the specification point #2.1.8 since the latter has only a capacity of 1.5 ft³ :</p> <p>CP 210s OD</p> <p>21.1 - 31.6 gpm</p> <p>12.0 - 19.0 gpm</p> <p>10" x 54"</p> <p>1.5 ft³</p> <p>Could you clarify?</p>	The correct model is: Hydrus HS 218s OD. See addendum C04
70 (FR)	<p>Suite à une demande de prix avec le fabricant, pour la section 10 22 13 Cloisons Grillagées, il nous a fait mention qu'il n'offre pas de porte battante double 36" tel que mentionné au devis. Est-ce que vous pouvez donner une autre alternative?</p>	Remplacer la porte battante double de 36" par une porte coulissante de 72".
70 (EN)	<p>Following a price request with the manufacturer, for section 10 22 13 Mesh Partitions, he informed us that he does not offer a 36" double swing door as mentioned in the estimate. Can you give us another alternative?</p>	Replace the 36" double swing door with a 72" sliding door.
71 (FR)	<p>Question en plomberie : Pour les alimentations d'eau (tuyauterie en cuivre Type L) est-ce que les raccords de type compression tel que propress de Viega sont acceptés ?</p>	Non
71 (EN)	<p>Plumbing: For water supplies (Type L copper piping) are compression-type fittings as clean from Viega accepted?</p>	No
72 (FR)	<p>Question en plomberie : Dans les plans et devis de plomberie, il n'y aucun modèle de solin de toit pour la sortie des événements de plomberie et sur les</p>	Addenda EM-04

	plans d'architecture (A190) il y a une référence à ce détail qui selon nous ne correspond pas à un détail d'évent. Pourriez-vous clarifier ?	
72 (EN)	Plumbing: In the plumbing plans and specifications, there is no model of roof flashing for the exit of plumbing vents and on the architectural plans (A190) there is a reference to this detail which in our opinion does not correspond to a vent detail. Could you clarify?	ADDENDUM-EM-04
73 (FR)	<p>Question en plomberie : Dans la légende T0-3 qui fait référence aux détails 190D</p>  <p>Est-ce que vous pourriez préciser la marque et modèle des solins requis pour le projet?</p>	Addenda EM-04
73 (EN)	Plumbing: In the T0-3 legend that refers to details 190D	ADDENDUM-EM-04



Could you specify the mark and model of flashings required for the project?

74
(FR)

Question en plomberie : Pour les items suivants, est-ce que vous pourriez spécifier un numéro de modèle et marque car il n'y en a pas dans le devis ?

22 11 19 2.7	Type RAE-1
	Sortie d'eau Antigél aucun modèle dans devis (seulement une description)

22 42 00 2.12	Type D-2
	Robinetterie à pression équilibrée aucun modèle dans devis

22 14 26 2.1
Type RT-2 (pas de numéro de modèles dans devis)

Type RAE-1, numéro de modèle non requis, le robinet doit correspondre à la description.

Pour la robinetterie type D-2 – Addenda EM-04



RT-2, tel que la description soit une crépine carrée pour toit-terrasse en aluminium



	<div>Drain de toit 3" carrée tel que MURPHCO</div> <div><div></div><div>Type DAR-2 (AUCUN MODELE DANS DEVIS)</div></div>	<div>fixé à une bride en cuivre rigides fabriqué par MURHCO</div> <div>DAR-2 a été modifié en DAR-1 dans l’addenda EM-2</div>
74 (EN)	<div>Plumbing: For the following items, could you specify a model number and brand because there are none in the specifications?</div> <div><div><div>22 11 19 2.7</div><div>Type RAE-1</div></div><div><div></div><div>Sortie d'eau Antigél aucun modèle dans devis (seulement une description)</div></div><div><div><div>22 42 00 2.12</div><div>Type D-2</div></div><div><div></div><div>Robinetterie à pression équilibrée aucun modèle dans devis</div></div><div><div>22 14 26 2.1</div><div>Type RT-2 (pas de numéro de modèles dans devis)</div></div><div>Drain de toit 3" carrée tel que MURPHCO</div><div><div></div><div>Type DAR-2 (AUCUN MODELE DANS DEVIS)</div></div></div></div>	<div>For type RAE-1, The faucet must match with the description. The model number isn’t required</div> <div>For type D-2, see addendum –EM-04</div> <div>For RT-2, the model must match with the description.</div> <div>DAR-2 has been modified in DAR-1. See addendum-EM02</div>

75 (FR)	Question en plomberie : Concernant le type L-1 (Lavabos muraux) est-ce que le support avec bras mural sont requis car ils ne sont pas demandé au devis ?	22 42 00 articles 2.4.3
75 (EN)	Plumbing: Concerning type L-1 (Wall washbasins) is the bracket with wall arm required because they are not requested in the specifications?	See 22 42 00 articles 2.4.3
76 (FR)	Question en plomberie : Concernant les items RP-1, RP-2, RP-3 et RPE-1 est-ce que les clapets anti-gaz (trapp guard) sont requis car ils ne sont pas au devis ?	22 13 19 articles 2.3 pour la description 22 13 19 articles 3.4 pour l'installation
76 (EN)	Plumbing: Regarding items RP-1, RP-2, RP-3 and RPE-1 are trapp guard valves required because they are not in the specifications?	See 22 13 19 articles 2.3 for description See 22 13 19 articles 3.4 for installation
77 (FR)	Spécialité de mécanique : Le tableau des raccordements de l'annexe 1 dans le devis n'indique par qui s'occupe des fournitures du système de dosage de coagulant du bâtiment technique préfabriqué secteur eaux usées, réacteurs UV, pompes à air, lave yeux, débitmètre, baril de coagulant, palette de confinement aussi pour la chaîne de traitement MEI Assainissement et les équipements Bionest. Est-ce que c'est fourni par l'entrepreneur en mécanique de procédé ou l'entrepreneur général y compris l'installation, excavation ?	Eau potable : La fourniture des équipements et l'installation par mécanique de procédé Eaux usées : La fourniture des équipements par Bionest/MEI et l'installation par l'Entrepreneur général (sauf si autrement indiqué au devis)
77 (EN)	Mechanical Specialty: The connection table in Appendix 1 in the specification does not indicate who is responsible for the supplies of the coagulant dosing system for the prefabricated technical building in the wastewater sector, UV reactors, air pumps, eye washers, flowmeters, coagulant drums, containment pallets also for the MEI Sanitation treatment line and Bionest equipment. Is it provided by the process mechanics contractor or the general contractor including installation, excavation?	Drinking water: Supply of equipment and installation by process mechanics Wastewater: The supply of equipment by Bionest / MEI and the installation by the General Contractor (unless otherwise indicated in the specification)
78 (FR)	Spécialité de mécanique : À la page 1 de 3 du tableau de raccordements, il est indiqué que le panneau de démarreur qui contrôle les pompes d'eaux usées sera fournis par MEI dans l'onglet fourni par et sur la même ligne	Par MEI

	dans l'onglet remarque, il est indiqué que l'entrepreneur en mécanique de procédé fournira à MEI le panneau. Serait-il possible de nous confirmer par qui il doit être fourni ?	
78 (EN)	Mechanical Specialty: On page 1 of 3 of the connection table, it is indicated that the starter panel that controls the wastewater pumps will be provided by MEI in the tab provided by and on the same line in the remark tab, it is indicated that the process mechanical contractor will provide MEI with the panel. Would it be possible to confirm who should provide it?	By MEI
79 (FR)	Spécialité de mécanique : À quel article du bordereau selon les phases doivent être inclus les travaux du bâtiment technique y compris la mécanique de procédé à l'intérieur de celui-ci ? et à quelle phase des travaux.	Voir documents d'architecture
79 (EN)	Mechanical specialization: To which article of the slip according to the phases must be included the work of the technical building including the process mechanics inside it? and at which phase of the work.	See architecture documents
80 (FR)	Spécialité de mécanique : Dans le devis, à la page 8 de 12 (155/243) il est indiqué PARTIE 2 ESSAIS D'ÉTANCHÉITÉ POUR LES RÉSERVOIRS PRÉFABRIQUÉS (BÉTON), serait-il possible de nous confirmer que ces travaux seront sous la responsabilité. De l'entrepreneur général?	Oui, par l'Entrepreneur général
80 (EN)	Mechanical Specialty: In the specifications, on page 8 of 12 (155/243) it is indicated PART 2 SEALING TESTS FOR PREFABLE RESERVERS (CONCRETE), would it be possible to confirm to us that this work will be under our responsibility. From the general contractor?	Yes, by general Contractor
81 (FR)	Spécialité de mécanique : Serait-il possible d'avoir un délai supplémentaire pour préparer notre soumission pour le dépôt des spécialités au BSDQ ?	Cette demande a été considérée. Veuillez consulter le site « Achatsetventes.gc.ca » pour la date de fermeture.
81 (EN)	Mechanical specialization: Would it be possible to have an additional time to prepare our submission for the submission of specialties to the BSDQ?	This request has been considered. Please refer to the « Buyandsell.gc.ca » site for the closing date.

82 (FR)	<p>Spécialité de mécanique : À la page 190 de 243, il est mentionné ;</p> <p>travaux. Les systèmes pourront être acheminés au lieu des travaux via le civil administratif et un « boom truck ». Celui-ci devra être opéré par l'Entrepreneur accessible seulement via le saut-de-loup, un escalier et un ascenseur. Cette capacité maximale. Toutes les dimensions pour les accès mentionnés à la p doivent être validées par l'Entrepreneur lors de la visite des soumissionnaires et méthodologie de l'Entrepreneur pour la manutention des équipements devra être des travaux au Représentant du Ministère pour approbation.</p> <p>, serait-il possible de nous illustrer les accès disponibles au bâtiment administratif sur le plan C03 pour la manutention des équipements, réservoir, panneaux de désinfection UV ? Nous aimerions savoir à quelle distance est situé le saut-de-loup par rapport à nos travaux à prévoir de procédé pour la manutention des systèmes UV, réservoirs et adoucisseurs.</p>	Voir plans d'architecture et civil plans
82 (EN)	<p>Mechanical Specialty: On page 190 of 243, it is mentioned;</p> <p>travaux. Les systèmes pourront être acheminés au lieu des travaux via le administratif et un « boom truck ». Celui-ci devra être opéré par l'Entrepreneur accessible seulement via le saut-de-loup, un escalier et un ascenseur. Cette capacité maximale. Toutes les dimensions pour les accès mentionnés à la p doivent être validées par l'Entrepreneur lors de la visite des soumissionnaires et méthodologie de l'Entrepreneur pour la manutention des équipements devra être des travaux au Représentant du Ministère pour approbation.</p> <p>Would it be possible to illustrate the accesses available to the administrative building on plan C03 for the handling of equipment, tanks, UV disinfection panels? We would like to know how far the basement access is from our planned process work for handling UV systems, tanks and water softeners.</p>	See architecture and civil plans

	QUESTIONS/QUESTIONS	RÉPONSES/ANSWERS
83 (FR)	<p>Électricité :</p> <p>Dans le bâtiment administratif, un grand nombre de prises électriques et de télécommunication sont demandés au plancher. Les descriptions aux plans et devis sont très vagues sur le type d'installation voulue (copier ci-bas). Nous préciser un modèle de boîte d'un manufacturier reconnu pour une prise électrique et pour une sortie de télécommunication pour installation au plancher.</p> <div>  <p>MONTAGE AU PLANCHER (L'ALIMENTATION DES PRISES MONUMENT DOIT ÊTRE INSTALLÉE SOUS LE PLANCHER) FLOOR MOUNT (THE OUTLETS POWER MUST BE INSTALLED UNDER THE FLOOR)</p> </div> <div>  <p>MONTAGE TYPE MONUMENT D'AFFLEUREMENT (L'ALIMENTATION DOIT ÊTRE INSTALLÉE SOUS LE PLANCHER) DEVICE RECESSED INTO FLOOR</p> </div> <p>2.5 Boîtes de plancher</p> <p>.1 Boîtes de plancher en acier galvanisé par électrolyse, étanches: finition réglables dotés d'une plaque de surface en aluminium de fixation longue ou courte, conçue pour recevoir des prises: profondeur minimale de 28 mm (1-1/8 po) pour les prises de c dispositifs de communication.</p> <p>.2 Boîtes de plancher moulées, réglables, étanches à l'eau et a taraudées pour conduits de 16 mm (1/2 po) et de 21 mm (3/4 (3 po).</p>	<p>Il n'est pas nécessaire de nommer des marques. Il est requis de proposer des modèles respectant les spécifications en période de dessins d'atelier.</p>

83 (EN)	<p>Electricity:</p> <p>In the administration building, a large number of electrical and telecommunication sockets are required on the floor. The descriptions in the plans and specifications are very vague on the type of installation required (copy below). Specify a box model from a manufacturer known for an electrical outlet and a telecommunications outlet for floor installation.</p> <div>  <p>MONTAGE AU PLANCHER (L'ALIMENTATION DES PRISES MONUMENT DOIT ÊTRE INSTALLÉE SOUS LE PLANCHER) FLOOR MOUNT (THE OUTLETS POWER MUST BE INSTALLED UNDER THE FLOOR)</p> </div> <div>  <p>MONTAGE TYPE MONUMENT D'AFFLEUREMENT (L'ALIMENTATION DOIT ÊTRE INSTALLÉE SOUS LE PLANCHER) DEVICE RECESSED INTO FLOOR</p> </div> <div> <p>2.5 Boîtes de plancher</p> <p>.1 Boîtes de plancher en acier galvanisé par électrolyse, étanches, finition réglables dotés d'une plaque de surface en aluminium de fixation longue ou courte, conçue pour recevoir des prises de profondeur minimale de 28 mm (1-1/8 po) pour les prises de communication.</p> <p>.2 Boîtes de plancher moulées, réglables, étanches à l'eau et taraudées pour conduits de 16 mm (1/2 po) et de 21 mm (3/4 po).</p> </div>	<p>It is not necessary to name brands. It is required to offer models that meet the specifications in the period of shop drawings.</p>
84 (FR)	<p>Électricité :</p> <p>Dans le diagramme de distribution, il est question d'un MINI ONDULEUR(UPS ÉCLAIRAGE) sur quelques panneaux et je n'ai pas de description. Est-ce possible de nous fournir cette description svp?</p>	<p>Voir la légende</p>
84 (EN)	<p>Electricity:</p> <p>In the distribution diagram, there is a MINI UPS on some panels and I don't have a description. Is it possible to provide us with this description please?</p>	<p>See legend.</p>
85 (FR)	<p>Électricité :</p> <p>Je vois au devis les marques acceptés pour la distribution et GE n'est pas inscrit. Alors est-ce que cette marque acceptée?</p>	<p>Il y a 3 marques. Si GE désire être intégré il faut faire une demande officielle respectant les prescriptions des</p>

		documents d'appel d'offres pour une telle demande.
85 (EN)	Electricity: I see in the quotation the brands accepted for distribution and GE is not registered. So is this brand accepted?	There are 3 brands. If GE wishes to be integrated, an official request must be made in accordance with the requirements of the tender documents for such a request.
86 (FR)	Électricité : Au niveau des plans d'éclairage, il est mention de note "ES" mais je ne les vois sur aucun des plans. Est-ce possible de nous fournir ses notes?	Voir la légende. Tout ce qui est ESx fait référence au diagramme d'éclairage
86 (EN)	Electricity: On the lighting plans, it is mentioned note "ES" but I do not see them on any of the plans. Is it possible to provide us with his notes?	See the legend. This is ESx is reference to diagram of lighting
87 (FR)	Électricité : Au plan de télécom, il y a un carré avec un point d'interrogation à l'intérieur. Que signifie ce logo?	Ne pas en tenir compte
87 (EN)	Electricity: On the telecom plan, there is a square with a question mark inside. What does this logo mean?	Do not consider it

Solicitation No. - N° de l'invitation
5P204-180864/A
Client Ref. No. - N° de réf. du client
5P204

Amd. No. - N° de la modif.
006
File No. - N° du dossier
QCM-8-41212

Buyer ID - Id de l'acheteur
QCM039
CCC No./N° CCC - FMS No./N° VME

2) Postpone the closing date:

Solicitation closes at 02:00 PM on 2019-05-09 (HAE).

3) Add addendum (ADD):

ADD-C04
ADD-EM03
ADD-EM03-BA-Drawings
ADD-EM03-BI-Drawings
ADD-EM04
ADD-EM04-BA-Drawings

***** All other terms and conditions remain unchanged *****

ADDENDUM-C04

Project : **Operational Center Rehabilitation
and Construction of an Administrative Building
Forillon National Park**

Date : **2019-04-24**
(AAAA.MM.JJ)
File STGM : **Q-1680**
File JBCA : **2016-192-1**
File Tetra Tech : **32308TTB**
File Canada Parks : **1415-13**
Addenda no : **ADD-C04**

Owner : **Canada Parks**

This addendum is an integral part contractual documents for the project quoted here above. It aims at modifying, correcting or completing the contractual documents. All other conditions remain unchanged. All the additional costs caused by this addendum must be included in the submission of the general contractor.

Addendum content :

IMPACT OF THE ADDENDUM C04 ON THE SPECIFICATIONS

1. Section 44 10 00

1. This section has been modified. See page 8 attached.



END OF ADDENDA

5. The controller will send a dry contact to the main control panel (pump panel) when regeneration is in progress.
 6. The controller will send a dry contact to the main control panel for "General Alarm" when a problem is detected by the controller.
 7. Hydraulic contact between the controller and the duplex system will be provided for triggering regenerations. The water supply to the controller shall be made from a tap on a water pipe connected to the duplex systems.
 8. The Controller will have a button to manually trigger a regeneration.
 9. The power supply of the Controller will be done by a wall plug.
 10. The controller will be installed (pre-mounted) on a wall or panel with a 304L stainless steel frame welded and secured to the concrete slab near the pre-mounted softening system. The equipment layout on the panel shall be provided in shop drawing for approval.
7. Brine preparation system
1. Each tank must include, near the pre-mounted chassis, a saturator for the preparation and injection of sodium chloride brine for the regeneration of the resins. The saturator will be installed on the concrete slab next to the pre-assembled chassis and will have stainless steel anchors to stabilize the tank in the event of an earthquake.
 2. The brine tank is made of materials that are resistant to corrosion by brine. It has a lid, a double bottom with brine well, a water-intake float valve for the preparation of brine and a brine suction line toward the control head (the same pipe also serves to fill the brine tank with water). The management of the brine system is carried out automatically by the control head (filling of the brine tank and brine drive during washing).
 3. The capacity of the tank must allow enough salt to be stored for an average autonomy of about 2 months at the average rate of water consumption. In addition, it must allow the saturation concentration (> 95%) of the brine to be reached between two regenerations.
8. Acceptable products:
1. Puribec resin Kinetico model ~~CP-240s-OD~~ **Hydrus HS218s OD**;
 2. Magnor;
 3. Culligan;
 4. Or equivalent approved.
9. Equivalences
1. In the event that products are offered in equivalence (such as Culligan or Magnor equipment), they will have to meet the requirements and performances indicated in this section. In particular, the following elements must be considered (non-limiting):
 1. The operation of the ion exchanger system should be completely automatic.



ADDENDUM-EM03

Project : **Operational Center Rehabilitation
and Construction of an Administrative Building
Forillon National Park**

Date : **2019-04-23**
(AAAA.MM.JJ)
File STGM : **Q-1680**
File JBCA : **2016-192-1**
File Tetra Tech : **32308TTB**
File Canada Parks : **1415-13**
Addenda no : **ADD-EM03**

Owner : **Canada Parks**

This addendum is an integral part contractual documents for the project quoted here above. It aims at modifying, correcting or completing the contractual documents. All other conditions remain unchanged. All the additional costs caused by this addendum must be included in the submission of the general contractor.

Addendum content :

IMPACT OF THE ADDENDUM EM03 ON THE SPECIFICATIONS

1. Section 23 05 00.01

1. This section has been modified. See pages 1, 3 and 4 attached.

2. Section 23 73 13

1. This section has been modified. See page 7 attached.

3. Section 25 00 00

1. This section has been modified. See page 2 attached.

4. Section 25 35 16

1. This section has been modified. See pages 4 and 5 attached.

5. Section 25 95 00

1. This section has been modified. See pages 3, 4 and 5 attached.

IMPACT OF THE ADDENDUM EM03 ON THE MECHANICAL DRAWINGS**Administrative building**

1. Drawings

1. The plans with revisions below are re-issued including clouds showing modifications. See attachments.

1. V-001
2. V-300

-
3. V-310
 4. V-330
 5. V-600
 6. V-610
 7. V-650
 8. V-700
 9. V-800

Industrial building

1. Drawings

1. The plans with revisions below are re-issued including clouds showing modifications. See attachments.

1. V-001
2. V-300
3. V-310
5. V-610
6. V-620
7. V-700

IMPACT OF THE ADDENDUM EM03 ON THE ELECTRICAL DRAWINGS

Administrative building

1. Drawing E102

1. The revised plan is released again (see attachement). Cloud marks show the modifications.

END OF ADDENDA

PART 1 OVERVIEW

1.1 Related Documents

- .1 This section applies to the drawings and the general provisions of the contract, including the General Conditions and additional Conditions, as well as Division 01 sections.

1.2 Description of Features

- .1 Administrative Building

IDENTIFICATION	DESCRIPTION
CDU-1	<p>One (1) Daikin Applied Outdoor Condensing Unit, Model RCS050D, complete with:</p> <ul style="list-style-type: none"> Nominal capacity of 50 tons; Exterior walls in standard beige painted steel at Daikin Applied; Unit with two (2) independent refrigeration circuits operating on R410A; Four (4) compressors on two refrigeration circuits; type "scroll" on two refrigeration circuits, one of which is of the "digital scroll" type; Digital compressor supplied with acoustic envelope; Unit powered at 575/3/60 and having an MCA of 75.8 A and a MROPD of 90 A; Disconnecter without fuse; IEER with AHRI condition: 15,3; Weight: 2449 pounds; 24 V transformer; Service valves; 120 V electrical outlet to be connected by the electrician; "T" outlet on the discharge line to easily install a hot gas bypass system (HGBP) at the jobsite. HGBP is not required for this project; Condenser with hail protection and "Electrofin" coating; Protection against phase loss; "Speedtrol" control allowing operation up to 0 ° F outside; One (1) year warranty on parts only after start-up and up to 18 months from date of delivery. The shortest time will prevail; Extension of the warranty on the compressor of four (4) years, parts only; Start-up assistance. Neoprene vibration isolators. <p>Other acceptable products: AAon, Trane or equivalent approved during the bidding period.</p>
HC-1	<p>Venturi hood, model V05F28 2448 GN-G1:</p> <ul style="list-style-type: none"> Hood 48 "wide and 24" deep; The vertical frame opens up to 28"; Included lighting control, duplex GFCI receptacles on each stud and switch to start the fan; Work surface in black resin; Analog input for front speed; Analog input for the position of the guillotine frame; Solvent cabinet 20 "deep and 35" high with 2 doors, structural elements to support the back of the hood and run the piping and uprights to fill the space between the back of the cabinet and the wall. <p>Other acceptable products: Bedcolab or Mott</p>

IDENTIFICATION	DESCRIPTION
	<p>commercial use;</p> <ul style="list-style-type: none"> • Fuseless external disconnect switch mounted on the unit at the factory; • CSA approval in the factory; • 600 mm high standard roof base, insulated and assembled by the general contractor at the site; • Plan to attach the unit to the roof base. <p>Other acceptable products: AAon, EH Price.</p>
VRE-1	<p>Aldes brand PW20e PE20e brand recovery unit with a capacity of 1,700 CFM to 1 "of PSE water for complete feeding and return with:</p> <ul style="list-style-type: none"> • Double wall cabinet for exterior installation in galvanized steel 22 gauge; • Pre-painted exterior wall in manufacturer's standard color (white); • Fresh air intake hood and exhaust air exhaust with insulated motorized shutter and actuator with return spring; • Corrosion resistant stainless-steel inner wall; • 1 "fiberglass insulation; • Vertical configuration; • Hinged access doors; • MERV8 filters upstream of the recovery cube in both air circuits; • HTL enthalpic recovery cube for sensitive and latent recovery; • Stainless steel drainage faucet with drain under the unit; • Prevention of frost by preheating fresh air with an electric coil with a capacity of 22 kW modulating self-propelled by the microprocessor of the unit; • Electric heating coil with a capacity of 13 kW modulating (SCR) powered by the unit, but controlled by others (0-10 VDC signal by others); • "FC" belt-type power supply fan with epoxy coating against corrosion; • Premium 2-HP TEFC type power supply fan motor; • "FC" belt-type power supply fan with epoxy coating against corrosion; • 1.5 HP Premium Efficiency TEFC type exhaust fan motor; • Microprocessor control; • Low voltage terminal blocks; • Disconnecter without fuse; • Single electrical connection point 575/3/60 (MOP 50A); • Independent management of engines; • Limit end detection of the external flaps to the unit (conditional start when flaps open); • 44" 18 " roof base. <p>Other acceptable products: AAon, EH Price.</p>
VRE-2	<p>Aldes brand PW20e PE20e brand recovery unit with a capacity of 1,400 CFM to 1 "of PSE water for complete feeding and return with:</p> <ul style="list-style-type: none"> • Double wall cabinet for exterior installation in galvanized steel 22 gauge; • Pre-painted exterior wall in manufacturer's standard color (white); • Fresh air intake hood and exhaust air exhaust with insulated motorized shutter and actuator with return spring; • Corrosion resistant stainless-steel inner wall;



IDENTIFICATION	DESCRIPTION	
	<ul style="list-style-type: none"> • 1 "fiberglass insulation; • Vertical configuration; • Hinged access doors; • MERV8 filters upstream of the recovery cube in both air circuits; • HTL enthalpic recovery cube for sensitive and latent recovery; • Stainless steel drainage faucet with drain under the unit; • Prevention of frost by preheating fresh air with an electric coil with a capacity of 18 kW modulating self-propelled by the microprocessor of the unit; • Electric heating coil with a capacity of 10 kW modulating (SCR) powered by the unit, but controlled by others (0-10 VDC signal by others); • "FC" belt-type power supply fan with epoxy coating against corrosion; • 1.5 HP Premium Efficiency TEFC type power supply fan motor; • "FC" belt-type power supply fan with epoxy coating against corrosion; • 1.5 HP Premium Efficiency TEFC type exhaust fan motor; • Microprocessor control; • Low voltage terminal blocks; • Disconnecter without fuse; • Single electrical connection point 575/3/60 (MOP 40A); • Independent management of engines; • Limit end detection of the external flaps to the unit (conditional start when flaps open); • 44-" 18" roof base. <p>Other acceptable products: AAon, EH Price.</p>	3
ENR-1	<p>Nederman Heavy Vehicle Exhaust Hose Reel including the following components:</p> <ul style="list-style-type: none"> • 20804265 Spring Reel with Shutter Model 865SD for 6 "Diameter Hose; • 20373557 Switch for starting the fan; • 20823462 NFC-3 tubing 5 meters long and 6 "in diameter; • 20803361 Exhaust pipe-end with aim-grip pliers; • 14518637 FCM Fan Control Kit. <p>AQC or equivalent approved during the call for tenders.</p>	3
ENR-2	<p>Nederman Heavy Vehicle Exhaust Hose Reel including the following components:</p> <ul style="list-style-type: none"> • 20800765 Spring Reel with Shutter Model 865SD for 4 "Diameter Hose; • 20373557 Switch for starting the fan; • 20825962 Model NFC-2 tubing 5 meters long and 4 "in diameter; • 20804161 Exhaust pipe-end with aim-grip pliers; • 14518637 FCM Fan Control Kit. <p>AQC or equivalent approved during the call for tenders.</p>	3

END OF SECTION

- Mixing section with a length of 30 "including:
 - SCR electrical elements with a power of 130 kW
 - Voltage: 575/3/60
 - Disconnecter without fuse
 - Control Transformer
 - Automatic and manual thermal protection and air flow sensor
 - Installation of the coil by another at the site
 - 0-10 VDC signal for control
 - Removable panel.
- Mixing section with a length of 24 "including:
 - Access door 20 "wide, hinged and equipped with a handle;
- Power fan section with a length of 48 "including:
 - Plenum-type fan with aluminum AF wheel with a diameter of 30 ";
 - Belt training;
 - Class II construction;
 - performances 16000 cfm @ PSE 1 "of water (PST = 2.5" of water);
 - Rotation speed for 16000 cfm @ PSE 1 "of water: 1287 RPM
 - Maximum rotation speed: 1783 RPM;
 - 15 HP 575/3/60 engine, TEFC, premium efficiency;
 - Grounding disc for operation with VFD;
 - VFD supplied and installed by the electrical contractor;
 - Integral base with seismic type spring vibration isolators;
 - Access door 30 "wide, hinged and equipped with a handle;
 - Porthole and incandescent marine light with GFI power outlet.
- Discharge section 28 "long;
 - Opening on top of 24 "x 96"
 - Removable panel.

Note: The sound level of the unit must not exceed the data in the table below:

	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Radiated Sound	79	77	83	66	63	55	46	51
Supply	84	82	88	81	79	77	75	66
Return	79	77	90	69	68	67	63	53

2.10 Other acceptable products

- .1 Trane, **AAON**.
- .2 or equivalent approved during the call for tenders.



PART 3 COMPLETION

3.1 Examination

- .1 Examine the locations and conditions encountered on site to see if the requirements for installation tolerances and other parameters that affect the performance of the facility are met.

- .2 Provide and install all the equipment and accessories required and required to make a complete and operational integrated automation system.
 - .1 The description of the automation systems included in the specifications and the diagrams in the plans defines the results to be obtained. All equipment and accessories needed to do a complete job are not necessarily indicated or shown. Provide and install all required equipment and accessories so that the operation of the systems is in accordance with the operating sequences described in the plans and specifications.
 - .2 The location of the equipment shown on the plans is approximate and must be checked on site before starting work.
- .3 Interface language
 - .1 Design the system to allow the operator to use it [in the language of his choice (French or English)]
 - .2 Use pictograms for graphics.
 - .3 All documentation must be in French and English
 - .4 All messages, commands and alarms must appear on the screen or on the printer [in the language chosen by the operator (French or English)]

1.7 Additional Performance Requirements

- .1 This division applies to all plans in Division 22, 23 and 26.
- .2 Additional checkpoint list:
 - .1 **Integration of the control point (Bacnet) for power demand monitoring at the site in real time (common electrical panel in the administrative building).**
 - .2 An alarm control point for the fleet system of the sanitary pit of the industrial building.
 - .3 A control point for the exterior lighting of the industrial building. The lighting will have to work with an astronomical clock. The connection point is on the mechanical mezzanine.
 - .4 A control point for the exterior lighting of the industrial building. The lighting will have to work with an astronomical clock. The connection point is on the mechanical mezzanine.
 - .5 A control point for the exterior lighting of the administrative building. The lighting will have to work with an astronomical clock. The connection point is in the mechanical room of the basement of the administrative building.
 - .6 A control point for the exterior lighting of the administrative building. The lighting will have to work with an astronomical clock. The connection point is in the mechanical room of the basement of the administrative building.
 - .7 A general alarm control point for the drinking water treatment system. The connection point is in the mechanical room of the basement of the administrative building.
 - .8 A general alarm control point for the wastewater treatment system. The connection point is in the mechanical room of the basement of the administrative building.
 - .9 A low temperature alarm control point of the generator motor.
 - .10 Generator fuel pickup detection
 - .11 Low fuel level of the generator
 - .12 General alarm of the generator



2.11 Low Limits

- .1 Low temperature electric thermostats, very sensitive to the temperature of the point of contact.
- .2 Thermostats mounted in series to activate the alarm and stop the fan.
- .3 Thermostats of the type at a setpoint with SPDT manual reset contact, 5-meter capillary.

2.12 High Limits.

- .1 Protective devices at set point, manual reset SPST contact.
- .2 Bimetallic thermostats set at 57°C, to stop the supply fan and trigger the alarm. Install thermostats as indicated.

2.13 Duct AirFlow Measurement (AHU1-SM)



- .1 The EB-Link interface will send data to the smart devices in the vicinity.
- .2 Each sensor will be calibrated at the factory and NIST-certified, and the level of accuracy for temperature readings will be $\pm 2\%$.
- .3 Analog and network outputs.
- .4 Reading accuracy in ducts will range between 0 and 5,000 ppm (complete range).
- .5 1 tube with 8 sensors will be used per one 1,500 mm diameter duct * 500 mm.
- .6 The mean will be calculated based on each separate measuring point.
- .7 Temperature dispersion is the selected technology.
- .8 Flow rate and temperature sensors will be glass encapsulated thermistors.
- .9 A liquid-crystal display will show the flow rate and temperature.
- .10 The analog or communication output will be compatible with all controllers.
- .11 The transmitter will be a microprocessor.
- .12 The fasteners and mounts for model GTC116P+ will be designed for ducts.
- .13 EBTRON product, model GTC116P+ (with display).
- .14 Other acceptable products: Johnson Control, Accutrol.

2.14 Electric power meter



- .1 Make: Schneider Electric, model P6200 R1 A 0 B 0 A0 B 0 P.
- .2 Communication: BACnet.
- .3 Accuracy: 0.3% of the voltage reading and 0.1% of the frequency.
- .4 Display: LCD.
- .5 Other acceptable products: Johnson Control, Siemens.

PART 3 COMPLETION

3.1 — NOT USED.

3.1 Electric power meter



- .1 Determine the exact location of the electric panel's power meter with the contractor in charge of Division 26 of these specifications. Supply, install and connect the meter with the contractor in charge of Division 25 of these specifications (in a box located near the electric panel) and supply the current meters for installation by the contractor in charge of Division 26 of these specifications.

END OF SECTION

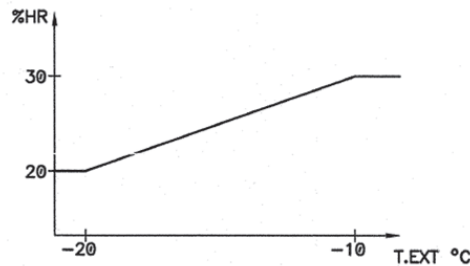
- .3 During the cooling period, the electric heating coil modulates to maintain the set point.
- .4 During the heating period, the electric heating coil modulates to maintain the air temperature at the room set point. The electric baseboard triac relay is also modulated to maintain the room set point.
- .5 When the "stop" button of the hood is switched, the motorized shutter located on the duct in the inter-ceiling of the room opens. Once this shutter is open, the motorized shutter of the hood closes.
- .6 When the "on" button of the hood is switched, the motorized shutter located on the hood opens. Once this shutter is open, the motorized shutter on the duct in the inter-ceiling of the local closes.
- .2 Mechanical room ventilation system
 - .1 The fan is in operation.
 - .2 When the outdoor temperature is below 20 ° C, the motorized shutters modulate to maintain the temperature at 21 ° C at the system supply probe.
 - .3 When the outside temperature is above 20 ° C. The motorized shutters are positioned to be 100% fresh air.
 - .4 When the outside temperature is above 30 ° C. The motorized shutters are positioned to be 20% fresh air.
- .3 A high temperature alarm for the server room is required. The alarm will be generated from 27 ° C.

3.2 Control Sequence of the Administrative Building

- .1 Ventilation systems
 - .1 Unoccupied period:
 - .1 The room set points of room temperature probes are automatically readjusted to 18 ° C.
 - .2 The room set points of room temperature probes are automatically readjusted to 18 ° C.
 - .2 Occupied period:
 - .1 The heat exchangers (VRE-1 and VRE-2) and the fresh air supply unit (MUA-1) are in operation.
 - .1 In the summer period (outside temperature above 23 ° C), ~~the return fans of the VRE-1 and VRE-2 units are at a standstill, the motorized return shutters in the unit are closed. The BIVE-7 and BIVE-8 fans are on and their respective motorized shutters are open. the diversion line for the core of the VRE-1 and VRE-2 units is operational.~~
 - .2 Electric coils operate when the outside temperature is below 15 ° C. The coils modulate to maintain a temperature of 21 ° C at the feed.



- .3 Humidification can not operate if the outdoor temperature is equal to or greater than 13 ° C. The humidifiers open in modulation according to maintain the humidity percentage at room humidity probes or humidity probe in the return duct (as the case may be, see diagram) according to the following ramp:



- .4 Exhaust fans (BI-VE-1 to BI-VE-5) are in operation
- .5 The ENR-1 and ENR-2 reels start when unwound (a reel position contact is available).
- .6 When the ENR-1 garage reel is in operation, the VE-5 exhaust fan is at a standstill.
- .7 Room check:
- .1 On request for heating, the triac relay of the electric baseboard to satisfy the set point (21 ° C adjustable).

.2 Dust Collector

- .1 The dust collector is turned on when a carpentry equipment (operating condition) is in operation. When stopping all carpentry equipment, the dust collector remains in operation for a period of five minutes.

3.3 Re-start after a power failure



- .1 After a power failure, the system are started again sequentially (at 3-minute intervals, adjustable) to restrict the power demand.

3.4 Power demand control sequence through load-shedding



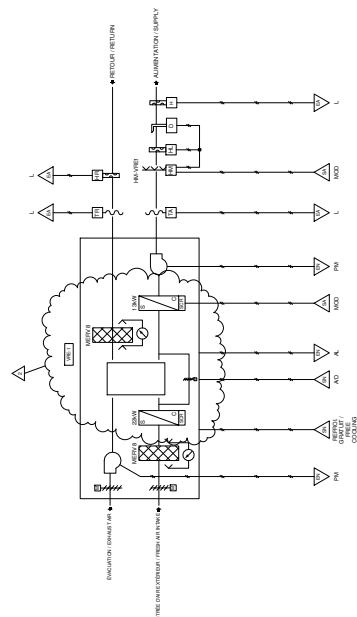
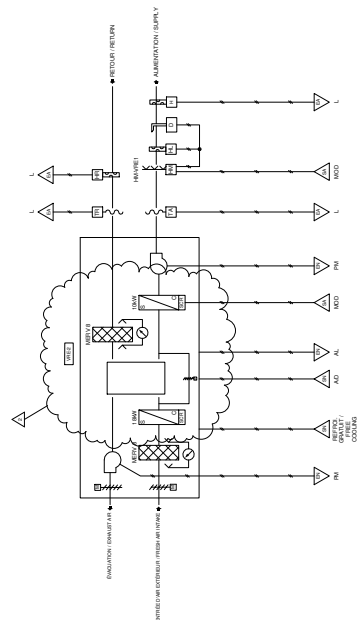
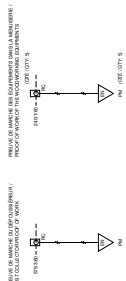
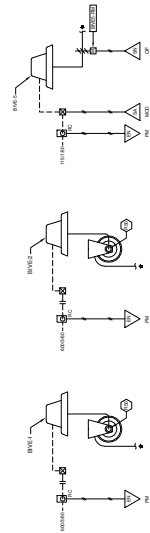
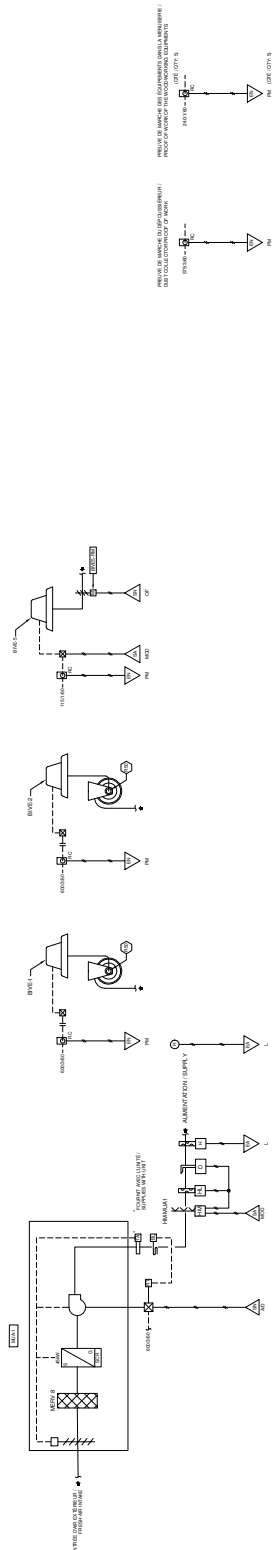
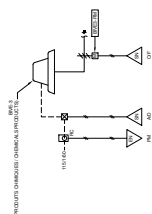
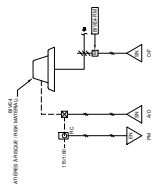
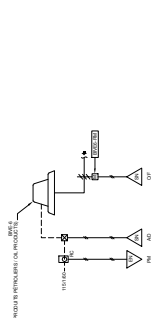
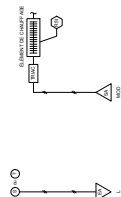
- .1 The measures implemented to manage peak power demands will be verified by the Engineer prior to the beginning of the work.
- .2 The equipment/facilities requiring load-shedding during peak demands are listed below:
- .1 Administrative building: the HM-AHU1 humidifier and the electric coils of the AHU-1 unit, the electric heating coils of the VAV boxes, the electric baseboard heaters and the unit heaters.
- .2 Industrial building: the HM-VRE1 humidifier and the electric coils of the VRE-1 unit, the HM-VR2 humidifier and the electric coils of the VRE-2 unit, the HM-MUA1 humidifier and the electric coils of the MUA-1 unit, the electric baseboard heaters and the unit heaters.

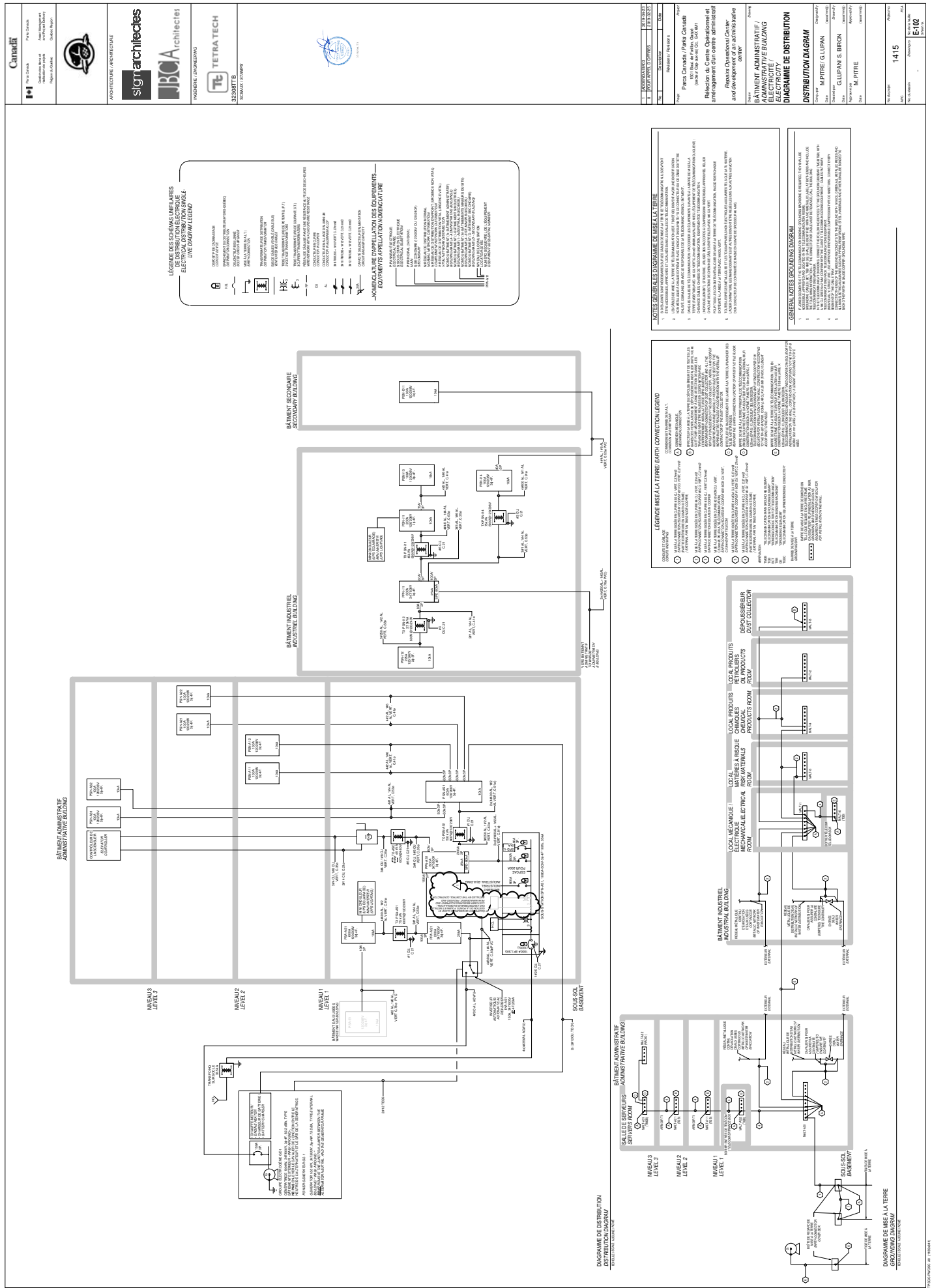
- .3 In winter, load shedding is carried out for these pieces of equipment to restrict the power demand in the buildings to the maximums below (adjustable):

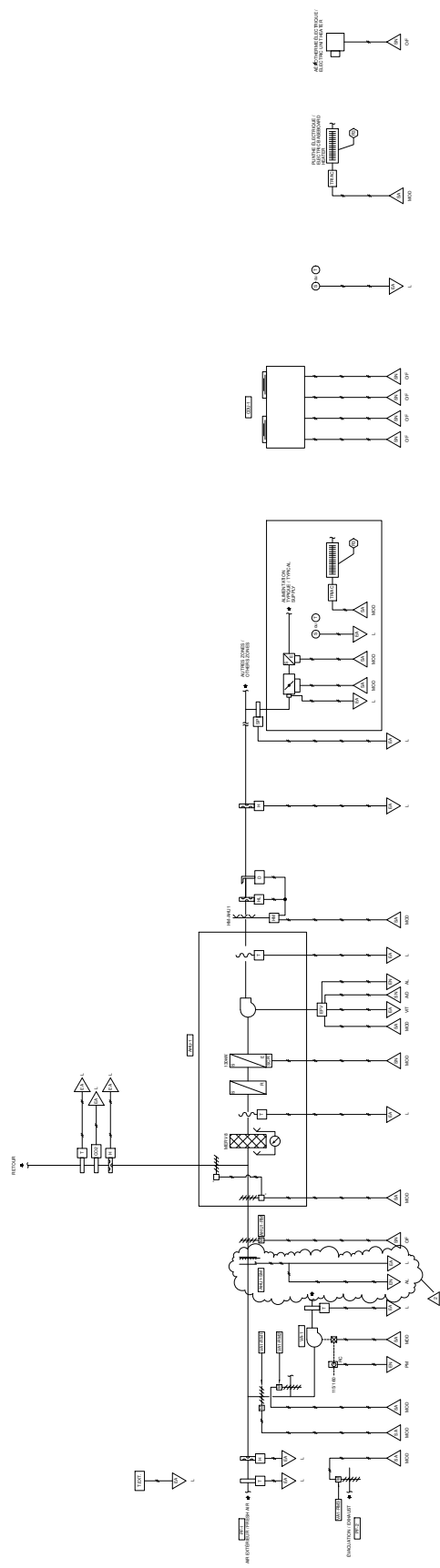
Month	Maximum Power Demand (kW)
October	To be confirmed
November	To be confirmed
December	To be confirmed
January	To be confirmed
February	To be confirmed
March	To be confirmed
April	To be confirmed

- .4 When the power demand in the building reaches 90% of the monthly maximum demand indicated in the table above, the command for power to the triac relays of all electric baseboard heaters, unit heaters and heating coils is restricted to 80%.
- .5 If the power demand reaches 95% of the maximum power, the electrical loads of the humidifiers is shed for 15 minutes and the command for power to the triac relays for all electric baseboard heaters, unit heaters and heating coils is restricted to 70%.
- .6 If the power demand reaches 95% of the maximum power, the electrical loads of the humidifiers is shed for 15 minutes and the command for power to the triac relays for all electric baseboard heaters, unit heaters, and heating coils is restricted to 60%.

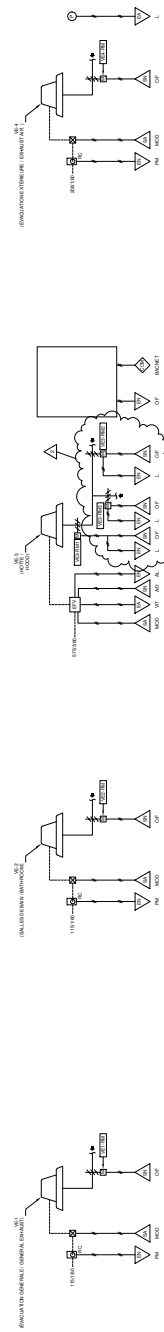
END OF SECTION







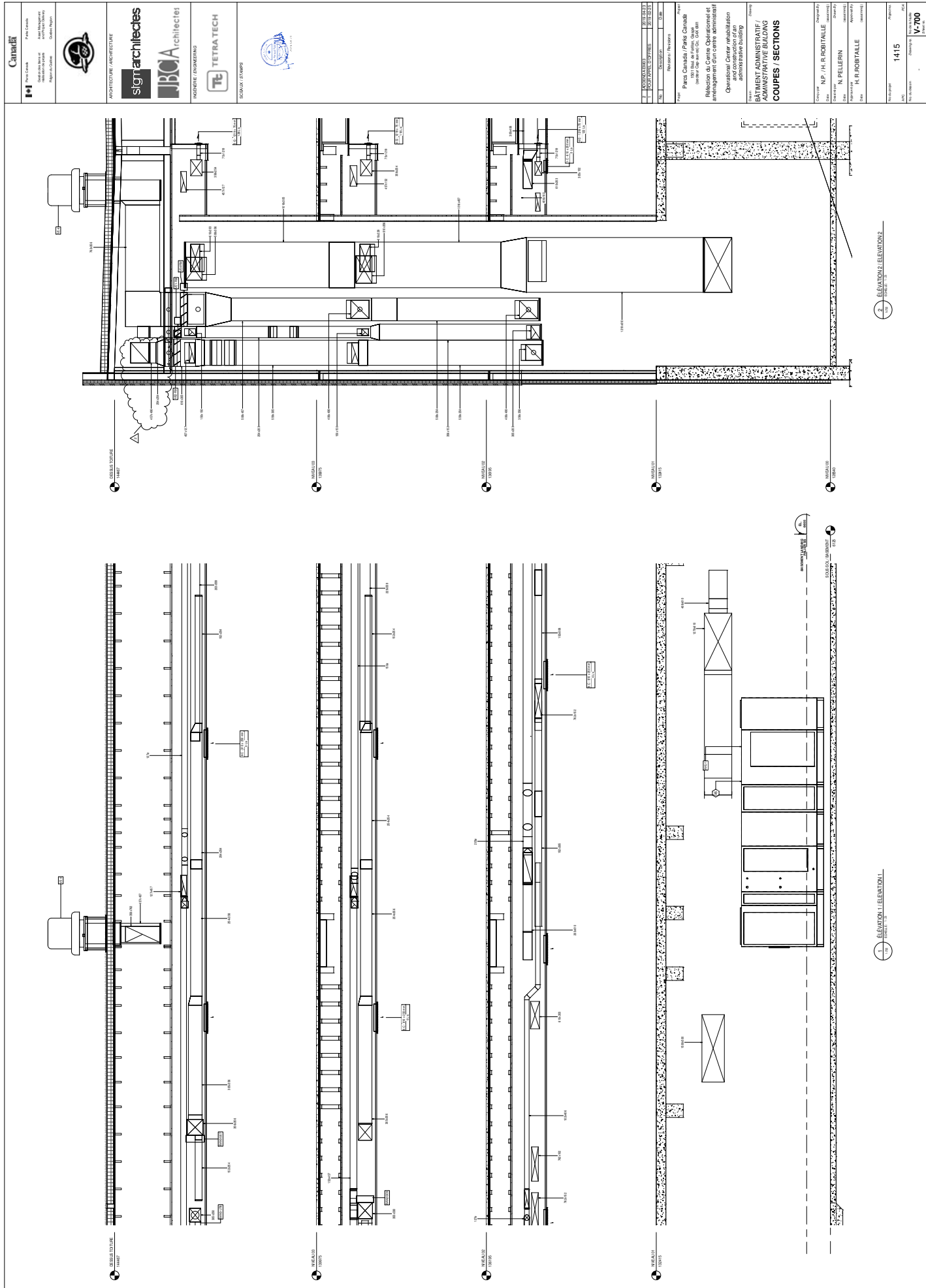
PIÈCE EN CHAUFFAGE SEULEMENT / ROOM IN HEATING ONLY



VENTILATEUR VE-2/ FAN VE-2

VENTILATEUR VE-3 / FAN VE-3

VENTILATEUR VE-4 / FAN VE-4



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ADDENDUM-EM04

Project : **Operational Center Rehabilitation
and Construction of an Administrative Building
Forillon National Park**

Date : **2019-04-24**
(AAAA.MM.JJ)
File STGM : **Q-1680**
File JBCA : **2016-192-1**
File Tetra Tech : **32308TTB**
File Canada Parks : **1415-13**
Addenda no : **ADD-EM04**

Owner : **Canada Parks**

This addendum is an integral part contractual documents for the project quoted here above. It aims at modifying, correcting or completing the contractual documents. All other conditions remain unchanged. All the additional costs caused by this addendum must be included in the submission of the general contractor.

Addendum content :

IMPACT OF THE ADDENDUM EM04 ON THE SPECIFICATIONS1. Section 22 11 19

1. This section has been modified. See pages 2 and 3 attached.

2. Section 22 13 19

1. This section has been modified. See page 2 attached.

3. Section 22 42 00

1. This section has been modified. See pages 2, 3 and 4 attached.

4. Section 23 84 13

1. This section has been modified. See page 2 attached.

IMPACT OF THE ADDENDUM EM04 ON THE ELECTRICAL DRAWINGS**Administrative building**1. Drawing E102

1. The revised plan is released again (see attachement). Cloud marks show the modifications.

END OF ADDENDA

1.6 Elements to be Submitted upon Completion of the Work

- .1 Provide engine maintenance records, transmissions and guards, and attach to manual referred to in Section 01 78 00 - *Documents /Items to Be Submitted upon Completion*.
- .2 The data sheets should cover the following:
 - .1 a description of the special devices, including the manufacturer's name, type, model, year of manufacture and power, flow rate or capacity;
 - .2 the relevant details relating to the operation and maintenance of the equipment;
 - .3 a list of recommended spares.

PART 2 PRODUCTS

2.1 Screen Filters

- .1 Inclined body filters (Y), tested at a gauge pressure of 860 kPa (125 psi) and fitted with a removable monel, bronze or stainless-steel screen with a mesh size 20.
- .2 Filters DN 50 (NPS 2) and less: bronze body with low lead content (<0.25%), screw tips and brass cap.
 - .1 Conformity: Listed by NSF - Standard 61, Appendix G.; certified according to NSF / ANSI 372.
 - .2 Manufacturers: subject to compliance with the specifications, provide the products of one of the following manufacturers:
 - .1 Watts (model LF777).
 - .2 Zurn Wilkins (model SXL).
- .3 Filters of DN 65 (NPS 2-1 / 2) or more: cast iron body, internal lining with low lead content (<0.25%), flanged end caps and bolted cap.
 - .1 Conformity: Internal and external surfaces coated with an FDA approved epoxy resin.
 - .2 Manufacturers: subject to compliance with the specifications, provide the products of one of the following manufacturers:
 - .1 Watts (model 77F-DI-FDA-125).
 - .2 Zurn Wilkins (model FSC-DOM).

2.2 Backflow Preventers (DAR-1)



- .1 Backflow preventer at reduced pressure. According to ACNOR B.64.4.
 - .1 DN 8 (NPS 1/4) until DN 80 mm (NPS 3): bronze body with low lead content (<0.25%) and stainless-steel flange bolts and rubber seats. Maximum pressure 1200 kPa (175 psi)².
 - .1 Manufacturers: subject to compliance with the specifications, provide the products of one of the following manufacturers:
 - .1 Watts (model LF009)
 - .2 Other acceptable products: Wilkins, Apollo

2.3 Diaphragm Safety Valves

- .1 Manufacturers: subject to compliance with the specifications, provide the products of one of the following manufacturers:
 - .1 Conbraco Industries, Inc.
 - .2 Spence Engineering Company, Inc.
 - .3 Watts.
- .2 Body: bronze or brass.
- .3 Disk: PTFE reinforced with glass and carbon.
- .4 Seat: brass.
- .5 Rod seals: EPDM O-rings.
- .6 Membrane: EPT.
- .7 Internal parts in contact with the fluid: brass and rubber.
- .8 Input filter: bronze or cast iron, removable without having to stop the system.
- .9 Seat and valve shaft: anti corrosion.
- .10 Diameter, capacity and operating pressure of faucets: comply with ASME code requirements Boiler and Pressure Vessel Code: Section IV and chosen according to the system in which they are installed, with service pressure and capacity set at the factory and modifiable on site.

2.4 Shock Absorbers (AM-1)



- .1 Manufacturers: subject to compliance with the specifications, provide the products of one of the following manufacturers:
 - .1 Jay R. Smith, 520-T series.
 - .2 Watts, SG series.
 - .3 Zurn, Z-1705 series.
- .2 Devices compliant with PDI-WH 201 and ASSE-1010.
- .3 Copper shock absorbers with pre-compressed brass piston, EPDM gasket and threaded male connection.

2.5 Vacuum Breaker

- .1 Manufacturers: subject to compliance with the specifications, provide the products of one of the following manufacturers:
 - .1 Watts.
 - .2 Zurn.
- .2 Devices meeting the requirements of the CSA standards of the B64 series.

2.6 Interior Water Intake

- .1 Water intake with 3/4 "NPT female hose outlet with built-in vacuum breaker such as Watts brand SC8-4 or approved equivalent during tender.

PART 2 PRODUCTS

2.1 Floor Drains

- .1 Floor drains and drainage gutters: in accordance with ASTM A112.6.3.
- .2 RP-1: nickel-plated cast iron floor drain, Watts brand, model fd-100-ca c / a siphon with deep water tank.
- .3 RP-2: cast iron epoxy cast iron trap with a Watts brand check valve, model BV-600
- .4 RP-3: Watts brand cast iron nickel grid grate, model fd-200-A5-1-63 c / a deep water trap.
- .5 RPE-1: Zurn Brand Cast Iron Polished Brass Funnel Floor Model, Model ZN-415-BF with deep water trap.
- .6 Other acceptable products: Jay R. Smith, Zurn, Watts

2.2 Cleanouts

- .1 RN-1: Zurn brand cast iron with double screw cap lid, model Z-1400.
- .2 Other acceptable products: Watts, Jay R. Smith. Check valves

2.3 Insertion Sealing Devices for Maintaining Siphon Water Retention

- .1 To be used in accordance with Chapter III - Plumbing, of the Quebec Construction Code, as a method equivalent to the protection of the water retention of a floor drain.
- .2 Elastomeric CPV soft and flexible valve, according to ASSE 1072 standard, spout-shaped, open on the top with curved closure underneath and molded around a PVC sleeve. The valve fits inside a floor drain. It opens to allow the effluents to pass and close to prevent the gases of the sanitary network from escaping.
- .3 Acceptable product(s): Trap Guard from ProSet Systems. RectoRseal seal, or approved equivalent during tender.

2.4 Oil Separator (SH-1)

- .1 Oil separator, opaque white polypropylene basin having the following dimensions: 762 mm x 864 mm and 1000 mm high. Integrated and fixed flow controller designed for a flow rate of 132 L / min and with a waste oil reserve, contiguous to the separator, with a capacity of 15 USGAL. Reinforced Heavy Circulation Lid and Top Seal Lid Frames As the IHP-375 Series Model (IHP-375-035-XH-ES) distributed by Lajoie.
- .2 Other acceptable products: Can-Aqua, Zurn, or equivalent approved during tender.

2.5 Retaining Pits (FR-1)

- .1 High density polyethylene retaining pit with heavy-duty Zurn brand frame model Z887-24-HD-Z-E6 / U6-DGF
- .2 Other acceptable products: Lajoie, Can-Aqua, or equivalent approved during tender.

2.6 Vent-pipe flashing

- .1 Insulated aluminium flashing 18 inches high, as model SJ-27 from THALER.
- .2 Other acceptable products: MURPHCO or approved equivalent.



2.2 Fittings

- .1 NSF Standard: Comply with NSF / ANSI 61, for supply fittings that will be in contact with potable water.
- .2 Standards: ASME A112.18.1 / CSA B125.1 and CSA B125.3.
- .3 Supply piping: chrome-plated brass pipes or chrome-plated copper pipes of diameter corresponding to the diameter of the water supply. Include a wall rose in chrome-plated brass or stainless steel.
- .4 Shut-off valves: chrome-plated brass, quarter-turn, ball-type with inlet connection corresponding to the diameter of the water supply pipe.
- .5 Operation: Handle can be operated without tools.
- .6 Vertical tubes:
 - .1 Washbasins: depending on the model.
 - .2 Sinks: depending on the model.
 - .3 Flexible vertical tubes in braided stainless steel, in accordance with ASME A112.18.6 / CSA B125.6.

2.3 Evacuation Fittings

- .1 Standard: ASME A112.18.2/CSA B125.2.
- .2 Stopper:
 - .1 Washbasins: depending on the model.
 - .2 Sinks: depending on the model.
- .3 Siphon
 - .1 Diameters:
 - .1 Washbasins: depending on the model.
 - .2 Sinks: depending on the model.
 - .2 Material:
 - .1 Washbasins: stainless steel, siphon and elbow adjustable, two-piece, with tube to wall stainless steel 0.30 mm (0.012 in) thick; and wall flange in stainless steel.
 - .2 Sinks: stainless steel, siphon and elbow adjustable, two-piece, with tube to wall stainless steel 0.30 mm (0.012 in) thick; and wall flange in stainless steel.

2.4 Washbasin (L-1)

- .1 Vitreous porcelain wall washbasin with overflow, vitreous porcelain knee protector included. "Everclean" finish, with drilled hole. Complies with ASME A112.19.2. Dimensions of 559 x 540 x 127 mm such as 0955 001 EC.020 from American Standard.
- .2 Valving Optoelectronic mixer tap with lithium battery. Lead free solid brass body, chrome finish, side temperature control lever, laminar jet breaker, flow rate 1.9 L / min C / a stainless steel hose, check valve and filters. Complies with ANSI A117.1, ASME A112.18.1 CSA B125 such as 7055205.022 American Standard.



- .3 Concealed wall mounts, 457 mm long, steel upright, extra heavy-duty support arms such as Watts CA-411.
- .4 Other acceptable products: Zurn, Manfield, Gerber.

2.5 Laboratory Sinks (EL-1)

- .1 Single 18-10 stainless steel sink, type 316, 18 gauge for under counter installation. Apparent surface with satin finish. Coated on the lower surface for condensation and soundproofing. Basket strainer with 89 mm diameter. Overall dimensions of 460 x 356 x 254 mm such as Franke UCS4610 / 316P-1.
- .2 Other acceptable products: AMI, ELKAY.
- .3 Valving Countertop mixer tap, fixed or swivel gooseneck spout, brass body, brass seat, lever blade knob and serrated nozzle such as DELTA W6700-C.
- .4 Other acceptable products: Chicago Faucet, Watersaver.

2.6 Sinks (E-1)



- .1 Franke 20-gauge single stainless-steel sink, model lbs6808-1 / 3. External dimensions of 521 x 508 x 203 mm deep c / a service tap cast brass lead free polished chrome finish with swivel spout fixed / swivel 203 mm with flow restrictor, brand Zurn, model z812c4-xl c / a ceramic cartridge, DAHL angular valves, No. 611-13-31-14wha and chrome tubes.
- .2 Other acceptable products: Kohler, Novanni.

2.7 WC (CA-1)

- .1 Floor lavatory, 4.8 LPC, elongated vitreous china bowl, two-piece, non-insulated siphonic jet flush cistern, "EverClean" finish chrome brass knob. Height of 381 mm. Polypropylene white toilet seat, solid, open front and elongated without cover, hinge with stainless steel stop. 5-year warranty such as 215CA104.020 from American Standard.
- .2 Other acceptable products: Zurn, Toto.

2.8 WC (CA-2)



- .1 Floor lavatory, 4.8 LPC, elongated vitreous china bowl, two-piece, non-insulated siphonic jet flush cistern, "EverClean" finish chrome brass knob. Height of 419 mm. Polypropylene white toilet seat, solid, open front and elongated without cover, hinge with stainless steel stop. 10-year warranty such as 211CA104.020 from American Standard.
- .2 Other acceptable products: Zurn, Toto.

2.9 Janitor sink (CU-1)



- .1 Terrazzo maintenance tray, polished and sealed stain resistant surface. Cast brass drain fitting with integrated stainless-steel curved strainer. Dimensions 610 x 610 x 254 mm such as MTB2424 from Stern Williams.
- .2 Other acceptable products: Fiat or equivalent approved during the bidding period.
- .3 Valving Maintenance tank faucet, raw chrome finish with vacuum breaker, adjustable top wall mount, spout with bucket hook and 19 mm hose connection such as T-10-VB from Stern Williams.
- .4 Other acceptable products: Fiat, Zurn.
- .5 Accessories: Hose, wall hook for mop and spatter panels in stainless steel type 304 calibres 20.

2.10 Laundry sink (CU-2)



- .1 Single sided sink in 18-10 type 304 stainless steel, 16-gauge, 229 mm backsplash. Drilling two holes at 200 mm c / c. rolled rim, adjustable tubular legs in stainless steel. Overall dimensions: 691 mm x 695 mm x 356 mm deep such as the Franke SL2424-1 model or equivalent approved during the tendering process.
- .2 Chrome-plated cast brass wall-mounted faucet, 200 mm c / c blade with washer-free ceramic disc cartridge, swivel spout, 8.3 L / min flow rate such as American standard model 7298152 or equivalent approved in bidding period.

2.11 Shower (D-1)



- .1 Pressure Balanced Type Taps, Metal Handle Lever, 1.5 L / min Shower Arm & Shower Head, Polished Chrome Finish, 165 mm Ø, Solid Brass Single Lever Body, Ceramic Disc Cartridge, screwdriver stop, Ø 13 mm Ø supply fittings such as Z7120-SS-LH from Zurn.
- .2 Zurn square floor drain, model FD-2254-AB2-BS4 with stainless steel grill.
- .3 Other acceptable products: Delta, American Standard.

2.12 Shower (D-2)



- .1 ~~Pressure Balanced Type Taps, Metal Handle Lever, 1.5 L / min Shower Arm & Shower Head, Polished Chrome Finish, 165 mm Ø, Solid Brass Single Lever Body, Ceramic Disc Cartridge, screwdriver stop, Ø 13 mm Ø supply fittings such as Z7120-SS-LH from Zurn~~ **Shower faucet complete with hand-held shower, a flow rate of 1.5 gpm, a flexible hose at least 1,500 mm long which can be accessed by a person sitting on the seat, and a support allowing the use of the hand-held shower as regular showerhead. The faucet will be equipped with a thermostatic control valve be all chrome with a permanent identification indicating cold and hot water, as well as a lever to set temperature, such as model RPW324HDF from DELTA and Hydroguard T/P, series e700, from Powers.**
- .2 ~~900mm solid chrome metal wall bar, one touch adjustable slider, hand shower bracket, flexible hose and self-cleaning showerhead such as Z7120-SS-LH-HW from Zurn.~~
- .3 Zurn square floor drain, model FD-2254-AB2-BS4 with stainless steel grill.
- .4 Other acceptable products: Delta, American Standard, **Zurn**

2.13 Refrigerated Drinking Fountain (FT-1)



- .1 Stainless steel wall mounted refrigerated drinking fountain, 100-micron integrated sieve, front and side push button activation. Lead content of less than 0.25%. Capacity of 30.4 L / h at 10 ° C operating at 115V / 3/60 such as the model Oasis PGV8EBF.
- .2 Other acceptable product: Franke.

2.14 Eyewash Station (LY-1)



- .1 Bradley eye / face washers, model S19-220B, wall mount. ABS anti-squirt spray head with antimicrobial protection, 10 3/4 "diameter ABS plastic receptacle, pictogram push-button control, strainer and 1 1/2" steel tap stainless.
- .2 Other acceptable product: Haws.

2.15 Emergency Shower (DU-1)



- .1 HAWS model 8330 stationary shower and eyewash station with a 200 mm diameter deluge shower head and eyewash bowl, all built in 304 stainless steel.
- .2 Other acceptable product: Bradley.

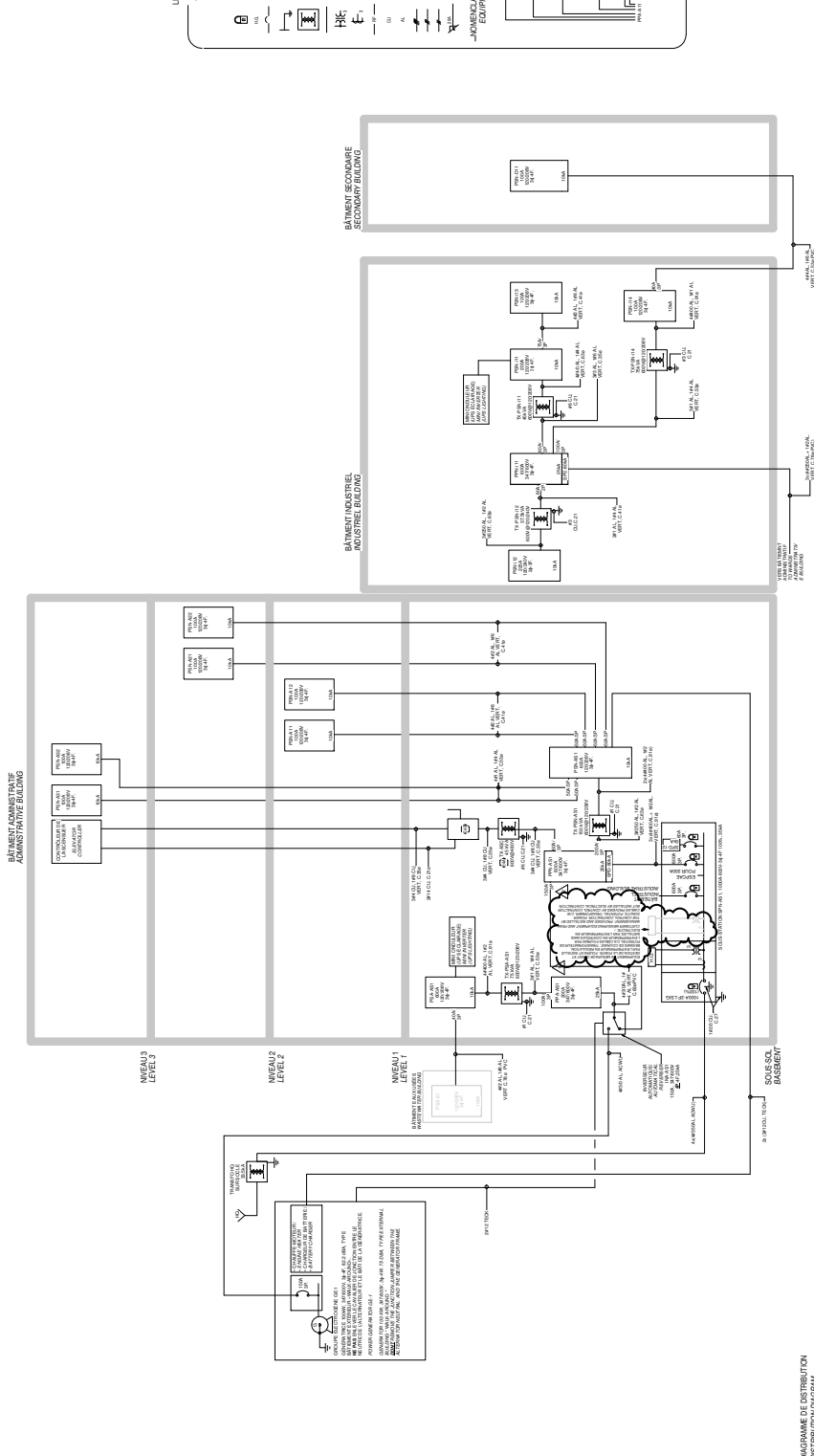
- .3 Appliances with a factory-sealed, disposable steam tank with water-based electrodes installed at the factory.
- .4 Control / regulation devices:
 - .1 semiconductor panel;
 - .2 solenoid valve on water supply and drain lines;
 - .3 humidistat mounted duct or wall mounted as indicated;
 - .4 air flow measurement;
 - .5 drain / rinse timer, adjustable;
 - .6 ammeter;
 - .7 Indicator for cleaning or replacing the tank.
- .5 Distributors for air ducts, with condensate discharge means and supply line.
- .6 Capabilities and features:
 - .1 HM-MUA1
 - .1 Make Dristeem Model XT-017 VL 600V / 3/60 with a capacity of 50 lbs / hr C / a distribution tube 24 "long, 2" in diameter without condensate return.
 - .2 HM-VRE1
 - .1 Make Dristeem Model XT-017 VL 600V / 3/60 with a capacity of 50 lbs / hr C / a distribution tube 24 "long, 2" in diameter without condensate return.
 - .3 HM-VRE2
 - .1 Make Dristeem Model XT-017 VL 600V / 3/60 with a capacity of 50 lbs / hr C / a distribution tube 18 "long, 2" in diameter without condensate return.
 - .4 HM-AHU1
 - .1 Brand Dri-Steem Model XTP-033 600V / 3/60 with a capacity of 100 lbs / h Rapid-Sorb Steam Dispenser Type-F two tubes 2 " in diameter and 24 inches in length.
- .7 Other acceptable products: Nortec, Neptronic, **Carel**.



PART 3 COMPLETION

3.1 Installation

- .1 Install terminal elements according to manufacturers' recommendations.
- .2 At the time of acceptance of the work, installed humidifiers and evaporation elements must be new and clean.
- .3 Install the hygrostats as indicated.
- .4 Provide, for the devices concerned, a surplus water evacuation device according to the manufacturer's recommendations.
- .5 Install the devices where they will be easily accessible.
- .6 Fit doors or inspection panels in the air ducts to the right of the appliances.

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