



Royal Canadian Mounted Police Gendarmerie royale du Canada

**RETURN BIDS TO:
RETOURNER LES SOUMISSIONS A: Bid Receiving/Réception des sousmissions**

RCMP-GRC

Bid Receiving/Réception des sousmissions
Attention: Jordan McKenna
Mail Stop/Arrêt postal 15
73 Leikin Drive,
Ottawa, ON K1A 0R2

AMENDMENT - INVITATION TO TENDER

MODIFICATION - APPEL D'OFFRES

Tender to: Royal Canadian Mounted Police

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services and construction listed herein and on any attached sheets at the price(s) set out therefore.

Soumission aux: Gendarmerie royale du Canada

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaries

Vendor/Firm Name and Address

Raison sociale et adresse du fournisseur/de l'entrepreneur
Facsimile No. - No de télécopieur:
Telephone No. - no de telephone:

Solicitation No. - No. de l'invitation 201901010	Date July 24 th , 2018
Client Reference No. - No. De Référence du Client 201901010	Amend No.- No. du modif. 010
GETS Reference No. - No. de Référence de SEAG 201901010	
Solicitation Closes –L'invitation prend fin at - à 2 :00 EDT on - le July 26th, 2018	
F.O.B. - F.A.B. Destination	
Address Enquiries to: - Adresser toutes questions à: jordan.mckenna@rcmp-grc.gc.ca	
Telephone No. - No de telephone 613.843.5518	Fax No. - N° de FAX:
Destination of Goods, Services, and Construction: Destinations des biens, services et construction:	
Delivery Required - Livraison exigée:	Delivery Offered - Livraison proposée
Name and title of person authorized to sign on behalf of Vendor/Firm Nom et titre de la personne autorisée à signer au nom du fournisseur/de l'entrepreneur	

Title-Sujet: Construction – Building Renovations and Upgrades



Royal Canadian Mounted Police Gendarmerie royale du Canada



Amendment #9 is being issued in order to respond to questions:

THE FOLLOWING CHANGES IN THE TENDER DOCUMENTS ARE EFFECTIVE IMMEDIATELY.

- 1) See responses to questions submitted as follows.

Part 7 Questions



No.	Date Rec'd	Question addendum wording indented below question in <i>BOLD ITALICS</i>	Status
48	July 11	<p>Reviewing the plans and specifications, it would be our intention to provide the baffles for the ranges. Reviewing the plans and specifications, we would have the following questions / comments:-Has the Government / Owner confirmed that the bullet trap will support the weight of the Ballistic Rubber Bullet Traps on the lower ramps? We are the manufacturer of the bullet trap and we are not able to guarantee that putting the weight of the rubber blocks on ramps will not damage the trap.It is not possible to remove the steel side plates of the bullet trap. Consequently, it will not be possible to install the Ballistic Rubber Bullet Traps under the upper ramp as depicted on A201.Detail 2/A202.</p> <p>Addendum Wording – <i>SEE ARCH. ADDENDUM NO. 1 - THESE CONCERNS HAVE ALL BEEN ADDRESSED - BALLISTIC BLOCKS ARE NO LONGER SITTING ON THE TRAP AND THE STEEL SIDE PLATES ARE BEING RETAINED</i></p>	<p>See Addendum Wording</p> <p>This wording initially sent to RCMP July 12/18</p>
49	July 11	<p>Note 3 call for a 42° chamfer on the lower edge of the baffle. This is unnecessary and will increase the cost of the baffles dramatically as it would have to be done by hand in the shop. We would suggest that this requirement be dropped.</p> <p>Addendum Wording – <i>SEE TENDER QUESTION LOG, ITEM 9 - CHAMFER HAS BEEN REMOVED</i></p>	<p>See Addendum Wording</p> <p>This wording initially sent to RCMP July 12/18</p>
50	July 11	<p>Has the Government confirmed that the existing roof structure can support a dead load of 23 psf over the entire area of the new ballistic ceiling? This does not include lights and mechanical equipment already supported by the roof.</p> <p>Addendum Wording – <i>THE EXISTING STRUCTURE CAN ACCOMMODATE THE ADDITIONAL LOADING. SEE TENDER QUESTION LOG, ITEM 46</i></p>	<p>See Addendum Wording</p> <p>This wording initially sent to RCMP July 12/18</p>
51	July 11	<p>If the intention is for the RCMP to advance forward of the 25 meter line, it will be necessary to provide sheet metal closure plates / flashing between the heel and toe of adjacent baffles. If these are not provided, the required / recommended air velocities will not be maintained for the length of the range. The details on A202 do not show any such flashing.</p>	<p>See Addendum Wording</p>



No.	Date Rec'd	Question addendum wording indented below question in <i>BOLD ITALICS</i>	Status
		<p>Addendum Wording – <i>BID AS PER PLANS AND SPECIFICATIONS - IT IS POSSIBLE THAT ADJUSTMENTS MAY BE REQUIRED TO PROVIDE CLOSURES FOR SOME OF THE BAFFLE GAPS, IN ORDER TO OPTIMIZE AIR VELOCITIES IN AREA OF POTENTIAL ACTIVITY. THIS WILL BE ADDRESSED DURING CONSTRUCTION PRIOR TO BAFFLE INSTALLATION.</i></p>	<p>This wording initially sent to RCMP July 12/18</p>
52	July 11	<p>Which subcontractor will be responsible for providing / installing the support grid for the new baffles? This would typically be Unistrut channel at 4' (1200mm) centers attached to the bottom chord of the roof trusses. It is usually installed by the Miscellaneous Metals subcontractor or GC.</p> <p>Addendum Wording – <i>CONTRACTOR IS REQUIRED TO DESIGN AND ENGINEER THE BAFFLES AND THEIR MEANS OF SUPPORT FROM EXISTING STRUCTURE. THE WAY IT IS SUBDIVIDED AMONG SUB-CONTRACTORS IS UP TO THE GENERAL CONTRACTOR. SEE TENDER QUESTION LOG, ITEM 46</i></p>	<p>See Addendum Wording</p> <p>This wording initially sent to RCMP July 12/18</p>
53	July 11	<p>Spec Section 13 54 00, paragraph 1.4.3.1 calls for the shop drawings to be stamped by a professional engineer registered in Ontario. Which component(s) of the shop drawings are they wanting to be stamped? The hanging system can certainly be stamped by a structural engineer. However, what engineering discipline would be able to stamp the ballistic containment element of the baffles?</p> <p>Addendum Wording – <i>BID AS PER PLANS AND SPECIFICATIONS</i></p>	<p>See Addendum Wording</p> <p>This wording initially sent to RCMP July 12/18</p>
54	July 11	<p>Are as-built drawings available showing all ductwork locations and sizes? This is required in order to satisfy 13 54 00 1.4.3.2. What is the remedy IF the existing supports are NOT able to carry the additional dead load imposed by the new baffles?</p> <p>Addendum Wording – <i>TENDER DRAWINGS SHOW EXISTING AND NEW DUCTWORK SIZES. BAFFLE SUPPORTS WILL HAVE TO BE DESIGNED TO SPREAD OUT THE LOAD AS REQUIRED SO AS NOT TO LOCALLY OVERLOAD EXISTING STRUCTURE</i></p>	<p>See Addendum Wording</p> <p>This wording initially sent to RCMP July 12/18</p>



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55	July 11	<p>Can the Government confirm that the 160mm clearance between the heel & toe of adjacent baffle rows is sufficient for the installation of the light fittings? This seems tight. To increase the clearance would likely require additional baffles if the 150 horizontal overlap is to be maintained.</p> <p>Addendum Wording – <i>BID AS PER PLANS AND SPECIFICATIONS - IT IS TIGHT, WHICH IS UNAVOIDABLE GIVEN THE CLEARANCE AND BAFFLE REQUIREMENTS IN THE EXISTING BUILDING THAT MUST ALL BE MET, BUT THE ELECTRICAL CONSULTANT CONFIRMS THAT IT'S WORKABLE</i></p>	<p>See Addendum Wording</p> <p>This wording initially sent to RCMP July 12/18</p>
56	July 11	<p>See Section 11 67 23, item 2.2.9 (bottom of page 4) indicates a requirement for intumescent paint to be applied to the ballistic steel plates. These plates are to be installed in between concrete and fully coated rubber blocks or panels, and should not be exposed to direct flame. Given the nature of the steel itself, and its location once installed, can the requirement for intumescent paint be removed and substituted for a standard low voc primer which is typically used in this application?</p> <p>Addendum Wording – <i>INTUMESCENT COATING IS NOT INDICATED TO BE APPLIED TO THE STEEL PLATES, BUT TO THE BALLISTIC RUBBER BLOCKS AND ACOUSTIC BALLISTIC RUBBER PANELS. IN BOTH CASES IT IS TO BE APPLIED SO AS TO PROVIDE A CLASS "A" FLAME SPREAD RATING TO ASTM E84</i></p>	<p>See Addendum Wording</p> <p>This wording initially sent to RCMP July 12/18</p>
57	July 11	<p>Upon careful review of the project documents I have discovered a discrepancy between the Ballistic Rubber Block spec and what is actually available. The spec section 11 67 23, page 4, item 2.2.5.1.2 states a block size of 610mm long x 355mm deep x 229mm high. The Dura-Bloc product standard size is 610mm x 305mm x 229mm as shown on the product data sheet from Range Systems website. Could you please confirm the desired size of this product?</p> <p>Addendum Wording – <i>ALREADY ANSWERED, SEE TENDER QUESTION LOG ITEM 32</i></p>	<p>See Addendum Wording</p> <p>This wording initially sent to RCMP July 12/18</p>
58	July 13	<p>(Ref. Tender Question Log, Item 2) This implies there will be another amendment. Is that correct, or is this statement referring to the drawings provided as part of addendum #6?</p> <p>Addendum Wording – <i>REFER TO ARCH. ADDENDUM NO. 1</i></p>	<p>See Addendum Wording</p>



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			This wording initially sent to RCMP July 13/18
59	July 13	(Ref. Tender Question Log, item 4) Can detailed as-built drawings of the existing trap be supplied? How can we know what is required with regards to reinforcing the trap without knowing precisely what is already there, and what the existing trap is rated for? Again, this question includes "RCMP HAS PROVIDED FINAL CONFIRMATION AND ARCH. ADDENDUM WILL BE ISSUED." Same question as above. Addendum Wording – <i>REFER TO ARCH. ADDENDUM NO. 1</i>	See Addendum Wording This wording initially sent to RCMP July 13/18
60	July 13	(Ref. Tender Question Log, item 5) Can you confirm that the existing steel trap carries the calibre ratings sufficient for the intended calibres to be used on this range? If so, there should be no need for additional steel plates, and we should be able to install the rubber panels directly on the existing trap with minimal work or modification. Addendum Wording – <i>CHARLES NESTER OF SAVAGE CONFIRMED THAT WELDING AN OVERLAY OF NEW AR500 STEEL TO THE EXISTING AR500 STEEL WOULD BE FEASIBLE. RCMP HAS DIRECTED THAT NEW STEEL WILL BE ADDED TO THE SIDE OF THE BULLET TRAP AS INDICATED IN ARCHITECTURAL ADDENDUM 1, AND THAT IT CAN BE INSTALLED BY WELDING TO THE EXISTING STEEL.</i>	See Addendum Wording



61	July 13	(Ref. Tender Question Log, item 6) Is it anticipated that the RCMP might confirm its removal at a later date? The issue is that it will be somewhat risky and complicated to install steel plates weighing in excess of 600 lbs at an elevation up to 13 ft AFF on top of an overtop of an existing structure that is critical to range performance and of known design and load bearing ability. If the existing trap manufacturer concurs it is not required...why retain it? Our goal in re-asking this question is to simply reduce risk, cost, and complexity to the project in an area that has no bearing on range usability or user safety.	See Addendum Wording
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		Addendum Wording – <i>RCMP HAS DIRECTED TO BID AS PER PLANS, SPECIFICATIONS, AND ISSUED AMENDMENTS AND ADDENDA</i>	
62	July 13	(Ref. Tender Question Log, item 16) Can detailed drawings indicating the exact location of existing steel be provided? It appears from the previous demolition drawings that there might be existing steel plate behind the firing line where none is required in the new configuration. Is this to be retained or removed? Addendum Wording – <i>TENDER DEMOLITION DRAWINGS INDICATE LOCATION OF EXISTING SIDE WALL STEEL. THERE IS NONE BEHIND THE "0" FIRING LINE</i>	See Addendum Wording
63	July 13	(Ref. Tender Question Log, item 16) What is the construction and characteristics of the existing steel plates? If they are AR 500 steel as suspected, this will make any form of anchoring into the existing wall practically impossible, as it would require field cutting a whole through the existing steel plate in the exact location required to coincide with the new plate, without affecting the wall in behind. Addendum Wording – <i>SITE MEASUREMENTS INDICATE THAT THE EXISTING SIDE WALL STEEL PLATE APPEARS TO BE 7.5MM THICK. IT IS NOT KNOWN WHAT TYPE OF STEEL IT IS OR HOW IT IS ATTACHED</i>	See Addendum Wording This wording initially provided by RCMP July 13/18



64	July 13	(Ref. Tender Question Log, item 16) Retaining the sidewalls and working with them represents a very different proposition than removal. Would the RCMP permit another site inspection so that we can conduct a detailed inspection of the sidewalls to determine the exact method of installation and how to best approach installation of the new wall equipment? Addendum Wording – RCMP HAS DIRECTED THAT NEW SIDE WALL BULLET TRAP STEEL PLATES CAN BE INSTALLED BY WELDING TO EXISTING STEEL PLATES	See Addendum Wording
65	July 13	(Ref. Tender Question Log, item 37) What methods of shoring are permitting? Are there restrictions on where additional cross bracing can be attached to the existing trap? Again, are drawings available? Is this a freestanding trap where the overhead trap sections are supported by the frame, or are the upper impact plates in fact suspended from the roof structure with chains?	See Addendum Wording

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		Addendum Wording – METHODS OF SHORING OR ADDITIONAL SUPPORT FOR THE EXISTING TRAP ARE THE CONTRACTOR'S RESPONSIBILITY	This wording initially provided by RCMP July 13/18
66	July 13	Is it possible to simply remove the existing bullet trap, or a section of it, in order to safely install the new components and reinstall the trap afterwards? Addendum Wording – RCMP HAS DIRECTED THAT THE EXISTING BULLET TRAP CANNOT BE REMOVED IN WHOLE OR IN PART	See Addendum Wording
67	July 13	Will the RCMP consider setting aside an allowance for inspection, reasonable repairs, and recertification of the trap by the trap manufacturer? Addendum Wording – RCMP HAS DIRECTED TO BID AS PER AMENDMENTS AND ADDENDA ALREADY ISSUED	See Addendum Wording
68	July 13	Architectural Amendment - Starting on Page 15, the amendment indicates “architectural Addendum no 1”. IS this the addendum indicated in previous responses to questions? Addendum Wording – SEE PREVIOUS RELATED RESPONSES	See Addendum Wording



69	July 13	<p>Drawing A201, Note 20 and 21 indicates installing rubber panel on top of AR 500 Steel plate NEW on top of existing Steel plate (note 20) or Bullet trap sidewall (Note 21). Note 20 indicates use of 16 ga vertical channel to create airspace to suit depth of offset from existing trap sidewall and concrete wall (presumably covered by steel).</p> <p>What is the depth of this offset? What dimensions of channel are required? How are we supposed to secure this channel and new plate? We will only be able weld the channel onto the existing plate. In order to be able install the new plate on to the channel, ideally the panel will be manufactured with pre-cut holes to align with threaded inserts in the channel, an installation process that requires precise location of the channels, something that is typically difficult to achieve when installed via welding.</p>	<p>See Addendum Wording</p> <p>This wording initially provided by RCMP July 13/18</p>
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		<p style="text-align: center;">Addendum Wording – <i>DEPTH OF OFFSET IS APPROX. 50 MM. CHANNEL DIMENSIONS AND MEANS OF SECURING NEW WORK SHALL BE DETERMINED BY STAMPED ENGINEERED SHOP DRAWINGS</i></p>	
70	July 13	<p>Given that this plate extends vertically up to the top of the ceiling at 4.1 meters, it seems like this offset will see this plate out alignment with the plate to be installed above it.</p> <p>IS this offset to extend all the way to the roof, or just to the top of the trap? Either way how are we to manage the transition from this one plate with additional standoff to the wall and the adjacent wall sections.</p> <p style="text-align: center;">Addendum Wording – <i>OFFSET JUST EXTENDS TO UNDERSIDE OF BULLET TRAP AND DEFLECTOR PANEL</i></p>	<p>See Addendum Wording</p> <p>This wording initially provided by RCMP July 13/18</p>



71	July 13	<p>Both notes 20 and 21 seem to require gluing rubber panels directly onto steel plates for the purposes of catching errant shots. This is less than ideal as 2" of rubber is insufficient to guarantee containment of fired rounds, and in the event that the rubber panel is capable of containing low energy ricochets, this will inevitably lead to accumulation of bullet material between the steel and rubber resulting in adhesive failure and panel separate.</p> <p>The existing bullet trap is bare steel. The new overhead baffle as per note 4, is bare steel. Installing additional steel and rubber panels on the side walls will offer a negligible safety benefit, at a significant cost. Will the RCMP consider removing these rubber panels?</p> <p style="text-align: center;">Addendum Wording – <i>RCMP HAS DIRECTED TO BID AS PER PLANS, SPECIFICATIONS, AND ISSUED AMENDMENTS AND ADDENDA</i></p>	See Addendum Wording
72	July 13	<p>IF other options are not available, ie omitting the requirement for the plate, withholding the ability to remove the trap temporarily (if only the section immediately adjacent to the wall), etc, will the RCMP permit another site inspection specifically to conduct a detailed inspection of the back and top side of</p>	See Addendum Wording

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		<p>the trap so that we can properly determine a suitable work plan for performing this installation that mitigates concerns of personnel safety as well as a sound risk mitigation plan for reducing the risk to the equipment?</p> <p style="text-align: center;">Addendum Wording – <i>RCMP HAS DIRECTED THAT ANOTHER SITE VISIT IS NOT POSSIBLE DURING THE TENDER PERIOD</i></p>	



73	July 18	<p>Upon careful review of Addendum #6, question and answer #46 is rather troubling. A structural review and drawing should have been generated so that all GCs are pricing the job the same way. To simply say that the existing structure is adequate to support the new baffle weight if evenly distributed, then leave it up to the GCs to design the support system will result in a wide variety of solutions with wide variety of pricing, or someone may forget it altogether and be the low bidder. A fair tender is one priced the same by everyone.....the Algonquin College range we did for OPS last year had clear structural drawing showing intended support system including the seismic cross bracing, which brings me to a question. Are we responsible to design and implement a seismic bracing system for the ceiling baffle installation?</p> <p>Addendum Wording – ITEM 46 DID NOT CHANGE PROJECT SCOPE, JUST CLARIFIED THE CAPABILITY OF THE EXISTING STRUCTURE AND THE REQUIREMENTS FOR ENGINEERED SHOP DRAWINGS ALREADY REQUIRED IN TENDER SPECIFICATIONS. OUR STRUCTURAL ENGINEER FURTHER CLARIFIES THAT THE QUESTION</p> <p>“IMPLIES THAT A COMPLEX STRUCTURAL SUPPORT SYSTEM WILL BE REQUIRED TO SUPPORT THE BAFFLES, WHICH IS NOT THE CASE. AS INDICATED ON ARCHITECTURAL DRAWINGS AND SPECIFICATIONS WE ANTICIPATE THAT THE BAFFLE ASSEMBLIES WILL BE MOUNTED ON SUPPORT ANGLES AND SUSPENDED ON CHAINS FROM THE ROOF; A COMPLEX STRUCTURAL SUPPORT SYSTEM SHOULD NOT BE REQUIRED. THE BAFFLE SYSTEM DESCRIBED ABOVE IS INTENDED TO BE A PRE-ENGINEERED SYSTEM. SECONDARY STRUCTURAL COMPONENTS SIMILAR TO THIS (INCLUDING, FOR EXAMPLE, GUARDRAILS, LADDERS, STAIRS, CEILINGS) ARE ALWAYS DESIGNED AND ENGINEERED BY THE SUPPLIER. THE SUPPLIER OF THESE COMPONENTS WILL LIKELY</p>	
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		<i>HAVE SPECIALIZED KNOWLEDGE AND EXPERIENCE WITH THE EFFICIENT DESIGN AND INSTALLATION OF THESE SYSTEMS, OFTEN INCORPORATING PROPRIETARY PRODUCTS OR APPROACHES. WITH RESPECT TO SEISMIC PROVISIONS, THE CONTRACTOR IS REQUIRED TO DETERMINE THE NBC/OBC REQUIREMENTS, DESIGN AND DOCUMENT THESE PROVISIONS IN THE ENGINEERED SHOP DRAWINGS, IF ANY ARE REQUIRED, AND IMPLEMENT THEM ON SITE."</i>	
74	July 18	With respect to providing temporary heating for the firing range room, we would be using a propane fired heating unit located outside the building, with warm air being ducted inside. Will we be required to provide a 24 fire watch when this system is running? Addendum Wording – <i>RCMP HAS DIRECTED THAT DEPARTMENTAL REPRESENTATIVE WILL PROVIDE AFTER-HOURS FIRE WATCH BUT THAT CONTRACTOR IS RESPONSIBLE FOR FIRE WATCH WHILE ON-SITE AND FOR OPERATIONAL MONITORING AND MAINTENANCE OF TEMPORARY HEATING SYSTEM AT ALL TIMES</i>	See Addendum Wording

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.