





Value for Money Assessment

Forensic Services and Coroner's Complex

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August 30, 2010

Infrastructure Ontario 777 Bay Street Toronto, Ontario M5G 2C8 Attention: Jim Cahill PricewaterhouseCoopers LLP PO Box 82 Royal Trust Tower, Suite 3000 Toronto Dominion Centre Toronto, Ontario Canada M5K 1G8 Telephone +1 416 863 1133 Facsimile +1 416 365 8215

Direct Fax +1 416 814 3215

Dear Mr. Cahill:

Final Value for Money Assessment - Forensic Services and Coroner's Complex

PricewaterhouseCoopers LLP ("PwC" or "We") has prepared the Value for Money ("VFM") assessment for the Forensic Services and Coroner's Complex ("Project") at the Financial Close stage, in accordance with our letter of engagement with Infrastructure Ontario ("IO") and IO's methodology *Assessing Value for Money: A Guide to Infrastructure Ontario's Methodology.* This methodology is consistent with approaches used in other jurisdictions.

The VFM assessment is based on a comparison of the total project costs at the Financial Close date for the Project under:

1. The traditional delivery approach, as reflected in the Public Sector Comparator (PSC) model; and

2. The Alternative Finance and Procurement approach (AFP), incorporating the Successful Bidder's proposed costs.

The VFM assessment was compiled using the following information (collectively the "Information") within the VFM model:

i. A Risk Matrix developed for IO by Altus Helyar and adapted by IO to reflect Project specific risks; and

ii. Cost and other input assumptions extracted from the bid submitted by the Successful Bidder and other VFM model assumptions as provided by IO.

"PricewaterhouseCoopers" refers to PricewaterhouseCoopers LLP, an Ontario limited liability partnership, or, as the context requires, the PricewaterhouseCoopers global network or other member firms of the network, each of which is a separate legal entity.

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We have not audit or attempted to independently verify the reasonableness, accuracy or completeness of the Information.

Based on our understanding of IO's VFM methodology, we can confirm that the Information has been appropriately used in the VFM Model and that the VFM assessment demonstrates the AFP approach provides an estimated cost savings of 13.5%, in comparison to the traditional delivery approach.

Yours truly,

Presemats-hanseloopers U.P.

PricewaterhouseCoopers LLP Joe Parker Partner





PRP International, Inc. Fairness Monitor Services

March 2, 2010

Mr. Derron Bain Vice President, Project Delivery Infrastructure Ontario 777 Bay Street, 6th Floor Toronto, ON M5G 2C8

Dear Mr. Bain:

Subject: Letter Report of Fairness Monitor Request For Proposals Phase <u>Ministry of Community Safety and Correctional Services</u> <u>– New Forensic Services and Corner's Complex Project –</u>

PRP International, Inc., the Fairness Monitor, concludes that Infrastructure Ontario conducted the RFP and the evaluation of the Proposals received for this RFP, in accordance with the terms and conditions, the evaluation methodology and processes, and the decision making protocols, as disclosed in the RFP.

Accordingly, PRP International, Inc. attests that the determination of Carillion Secure Solutions, as the recommended Preferred Proponent, was made in a fair (objective and competent) manner and consistent with the evaluation and selection processes set out in the RFP, issued May 21, 2009, and as amended by Addenda through to the RFP Closing Date of November 17, 2009. A summary Fact Sheet is attached outlining the verbal report made to the Evaluation Committee on January 28, 2010.

Should you have any questions or require clarification of any matter contained in the report, please contact the undersigned.

Yours truly,

Original signed by

Peter Sorensen President

cc: Mr. Eric P. Gilmore, Procurement Specialist

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RENDERING OF THE FORENSIC SERVICES AND CORONER'S COMPLEX



Image Courtesy of Carillion Secure Solutions

Highlights of the Forensic Services and Coroner's Complex:

Size	Approximately 550,000 square feet	
Workers at peak of construction	Approximately 450	
Environmentally Sustainable	Leadership in Energy and Environmental Design (LEED)	
Design	Gold certification. Highlights include:	
	 drought tolerant and native or adaptive plant 	
	species used for landscaping;	
	 low emitting volatile organic compound 	
	materials will be used for adhesives, paints,	
	carpet and sealants;	
	Diversion of construction waste from landfill	
	and support for recycling; and	
	Use of low flow water technologies.	



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Summary

ReNew Ontario 2005-2010 is a \$30-billion-plus strategic infrastructure investment plan to modernize, upgrade and expand Ontario's public infrastructure.

Infrastructure Ontario is an essential component of the *ReNew Ontario* plan. The Crown Corporation ensures that new infrastructure projects are delivered on time and on budget.

The Forensic Services and Coroner's Complex is being delivered under the Province's Alternative Financing and Procurement (AFP) model.

The new complex brings together the Office of the Chief Coroner, the Ontario Forensic Pathology Service and the Centre of Forensic Sciences on one site making collaboration between the units much easier. It will offer the world-class forensic capabilities Ontario needs in the years ahead and will accommodate increased capacity for autopsies and forensic science cases.

This new and modern facility will replace current facilities operated by the province.

The Forensic Services and Coroner's Complex will be located in the Province's Downsview Complex in Toronto and will target Leadership in Energy and Environmental Design (LEED) Gold certification.

LEED buildings focus on healthy indoor environments, reduced greenhouse gas emissions and efficient use of energy, water and other resources.

The public sector retains ownership, control and accountability of the facility.

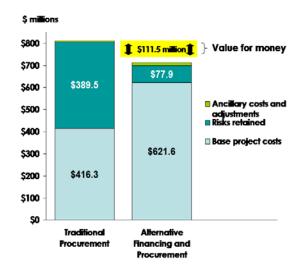
The purpose of this report is to provide a summary of the project scope, the procurement process and the project agreement, and to demonstrate how value for money was achieved by delivering the Forensic Services and Coroner's Complex project through the AFP process. The value for money analysis refers to the process of developing and comparing the total project costs under two different delivery models expressed in dollar values measured at the same point in time.

Value for money is determined by directly comparing the cost estimates for the following two delivery models:

Model #1 Traditional project delivery (Public sector comparator)	Model #2 Alternative financing and procurement	
Total project costs that	Total project costs incurred	
would have been incurred	by the public sector to	
by the public sector to	deliver the same	
deliver an infrastructure	infrastructure project with	
project under traditional	identical specifications	
procurement processes.	using the AFP approach.	

The cost difference between model #1 and model #2 is the estimated value for money for this project.

The value for money assessment of the Forensic Services and Coroner's Complex project indicates estimated cost savings of 13.5 per cent or \$111.5 million, by using the AFP approach in comparison to traditional delivery.



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PricewaterhouseCoopers completed the value for money assessment of the Forensic Services and Coroner's Complex project. Their assessment demonstrates projected cost savings of 13.5 per cent by delivering the project using the AFP model, versus what it would have cost to deliver the project using a traditional delivery model.

PRP International Inc. acted as the Fairness Monitor for the project. They reviewed and monitored the communications, evaluations and decision-making processes associated with the Forensic Services and Coroner's Complex project, ensuring the fairness, equity, objectivity, transparency and adequate documentation of the process. PRP International Inc. certified that these principles were maintained throughout the procurement process (please see letter on page 3.

Infrastructure Ontario is working with the Ministry of Community Safety and Correctional Services to develop the facility, which will remain publicly owned, publicly controlled and publicly accountable.

Project description

Background

ReNew Ontario 2005-2010 is a \$30-billion-plus strategic infrastructure investment plan to modernize, upgrade and expand Ontario's public infrastructure.

Infrastructure Ontario is an essential component of the *ReNew Ontario* plan. The Crown Corporation was created in 2005, to ensure that infrastructure projects are delivered on time and on budget.

Under the *ReNew Ontario* plan, projects are assigned to Infrastructure Ontario by the provincial government, which uses a made-in-Ontario project delivery model called Alternative Financing and Procurement (AFP). AFP brings private-sector expertise, ingenuity and rigour to the process of managing and renewing Ontario's public infrastructure while shifting risks associated with cost and schedule overruns away from the public sector.

Ontario's public infrastructure projects are guided by the five principles set out in the provincial government's *Building a Better Tomorrow Framework*, which include:

- 1. public interest is paramount;
- 2. value for money must be demonstrable;
- appropriate public control and ownership must be preserved;
- 4. accountability must be maintained; and
- 5. all processes must be fair, transparent and efficient.

Project Scope

The Ministry of Community Safety and Correctional Services is replacing aging facilities to address inefficiencies of design, technology and space. Ontario needs state-of-the-art integrated forensic infrastructure to meet modern demands of the justice sector and public safety programs in the future. The new Forensic Services and Coroner's Complex is designed to meet these demands. The Office of the Chief Coroner, the Ontario Forensic Pathology Service and the Centre of Forensic Sciences are currently housed in 30-year old buildings. The new complex will offer the worldclass forensic capabilities Ontario needs in the years ahead and will accommodate increased capacity for autopsies and forensic science cases. Highlights of the new facility include:

- containment Level 3 autopsy zone the first of its kind in Canada;
- dedicated video testimony rooms;
- a telemedicine portal to collaborate with colleagues in the province and globally;
- courtrooms for coroner's inquests;
- CT, MRI and digital x-ray technology;
- highly specialized ventilation systems;
- naturally lit labs;
- . advanced evidence security systems, training facilities and a science library.

Carillion Secure Solutions will design, build, finance and for 30 years, maintain the Forensic Services and Coroner's Complex to Leadership in Energy and Environmental Design (LEED) Gold certification.

LEED buildings focus on healthy indoor environments, reduced greenhouse gas emissions and efficient use of energy, water and other resources. The complex's LEED highlights include:

- drought tolerant and native or adaptive plant species used for landscaping;
- low emitting volatile organic compound materials will be used for adhesives, paints, carpet and sealants;
- Diversion of construction waste from landfill and support for recycling; and
- Use of low flow water technologies.

Job Creation

The project will help provide economic stimulus by creating and supporting thousands of jobs. Labour will largely be drawn from the Greater Toronto Area. At the peak of construction, it is estimated that 450 workers will be on site daily.

Competitive selection process timeline

The Province has entered into a project agreement with Carillion Secure Solutions to design, build, finance and maintain the new Forensic Services and Coroner's Complex. The procurement stages for the project were as follows:

December 1, 2008

Request for Qualifications

In 2008, the Ministry of Community Safety and Correctional Services and Infrastructure Ontario issued a request for qualifications for the project. Three building teams were pre-qualified:

- Carillion Secure Solutions Carillion Canada Inc. Stantec Architecture, Ltd.; McClaren, Willis & Lawrie Inc.; Vanbots, a division of Carillion Construction Inc.; The State Group Inc.; The Univex Group of Companies; and BMO Capital Markets.
- Integrated Team Solutions EllisDon Corporation; Honeywell Limited (Canada); Parkin Architects Limited and Smith Carter Architecture and Engineers Incorporated (JV); Halsall Associates; Smith and Andersen Consulting Engineering; Crossey Engineering Ltd.; Geo A. Kelson Company Limited; Black & McDonald Limited; EllisDon Constructions; and Scotia Capital
- Justice Infrastructure Partnership- Bilfinger Berger; Perkins Eastman Black + Bregman Hamann Architects (JV); SNC Lavalin Inc. + Bondfield Construction Company Limited (JV); Hidi Rae Consulting + Crime Lab Design; Jones Lang LaSalle + HSG Zander (a subsidiary of Bilfinger) (JV); and Bilfinger Berger Project Investments Inc.

May 21, 2009

Request for Proposals

A request for proposals (RFP) was issued to the prequalified proponents, setting out the bid process and proposed project agreements to design, build, finance and maintain the project.

Proposal submission

The RFP period closed on November 19, 2009. Three bids were received by Infrastructure Ontario and the Ministry of Community Safety and Correctional Services. The bids were evaluated using the criteria set out in the RFP.

February 2010

Preferred proponent notification

Carillion Secure Solutions was selected as the successful RFP proponent based on predetermined criteria, including construction schedule, technical requirements, price, operational and management plans and financing backing, in accordance with the evaluation criteria set out in the RFP.

The Carillion Secure Solutions consortium includes: Carillion Canada Inc., Concert Properties Ltd. Stantec Architecture, Ltd., McClaren, Wilson & Lawrie Inc., Carillion Construction Inc., Modern Niagara Toronto Inc., The Univex Group of Companies and BMO Capital Markets.

June 22, 2010

Commercial and Financial Close

A project agreement between Carillion Secure Solutions and Infrastructure Ontario on behalf of the Province was announced.

August 2010 - January 2013

Construction

Construction began shortly following the Financial Close agreement. During the construction period, the builder's construction costs will be funded by its lenders in monthly instalments based on the construction program set out by Carillion Construction Inc.

Construction will be carried out in accordance with the project agreement. The project will be overseen by a joint building committee made up of representatives from Carillion Secure Solutions, Infrastructure Ontario and the Ministry of Community Safety and Correctional Services.

Completion and payment

Carillion Secure Solutions will receive a payment from the Province when the project reaches substantial completion, which is expected in early 2013. This payment will be followed by monthly service payments over a 30-year period for construction of the facility, building maintenance, lifecycle repair and renewal and project financing.

Spring 2013 – Spring 2043

Maintenance

Carillion Secure Solutions will maintain the Forensic Services and Coroner's Complex for 30 years and be responsible for building maintenance, repair and lifecycle replacement during that period.

Project agreement

Legal and commercial structure

The Province entered into a project agreement with Carillion Secure Solutions, comprising approximately 30 months of construction and a 30-year maintenance timeframe. Under the terms of the project agreement, Carillion Secure Solutions will:

- design and build the Forensic Services and Coroner's Complex project;
- finance the construction and capital costs of the new facility over the term of the project;
- obtain a third-party independent certification that the Forensic Services and Coroner's Complex is built;
- provide facility management and lifecycle maintenance for the 30-year service period under pre-established maintenance performance standards in the project agreement; and
- ensure that, at the end of the contract term, the building meets the conditions specified in the project agreement.

The Province will make monthly payments to Carillion Secure Solutions, based on performance requirements defined in the project agreement. The Province will not commence these payments until the new Forensic Services and Coroner's Complex is substantially completed. Moreover, if Carillion Secure Solutions does not meet the standards set in the agreement, it will face financial deductions.

The province will make a substantial completion payment of \$150 million for the Forensic Services and Coroner's Complex. Carillion Secure Solutions will be paid an average of \$28 million each year for a 30-year period for the construction of the facility, building maintenance, lifecycle repair and renewal, as well as project financing. The Ontario Forensic Services and Coroner's Complex will be publicly owned, publicly controlled and publicly accountable. The Complex will continue to be publicly funded and publicly administered – this is non-negotiable for the Government of Ontario and more importantly, for the people of Ontario.

The building and maintenance team will be granted a licence to access the site in order to provide the construction and facility maintenance services over the term of the agreement. However, as noted above, the new facility will at all times remain publicly owned and the building and maintenance team are contractually bound to follow the terms of the project agreement.

Facility management and maintenance

Facility management

Services associated with the day-to-day management of the physical facility, such as maintaining the elevator, electrical and mechanical systems, ventilation systems and other similar maintenance work.

Lifecycle maintenance

Lifecycle maintenance represents the total cost of replacing, refurbishing and refreshing building structure and systems over their useful life. With respect to this project, "lifecycle costs" will involve the replacement of the facility's base building elements that have exceeded their useful life (e.g., floor finishes and certain mechanical and electrical components); these components must be left in a state acceptable to the government at the completion of the 30-year maintenance agreement. Lifecycle costs are typically capital costs.

Construction and completion risk

All construction projects have risks. Some project risks are retained in varying magnitude by the public sector. Examples of risks retained by the public sector under either the AFP or traditional model include planning, unknown site conditions, changes in law, public sector initiated scope change, and force majeure (shared risk).

Under the AFP model, some key risks that would have been retained by the public sector are contractually transferred to Carillion Secure Solutions. On a traditional project, these risks and resource availability can lead to cost overruns and delays. Examples of risks transferred to the private sector under the AFP project agreement include:

Construction price certainty

Carillion Secure Solutions will finance and construct the new complex. Carillion Secure Solutions will receive a payment from the government at substantial completion, which is expected in early 2013. This payment will be followed by monthly service payments over a 30-year period for construction of the facility, building maintenance, lifecycle repair and renewal and project financing.

Carillion Secure Solutions' payment may only be adjusted in very specific circumstances, agreed to in advance and in accordance with the detailed variation (or change order) procedures set out in the project documents.

Scheduling, project completion and delays

Carillion Secure Solutions has agreed to reach substantial completion of the Forensic Services and Coroner's Complex by early 2013.

The construction schedule can only be modified in very limited circumstances, in accordance with the project agreement. Carillion Secure Solutions' final payment will not commence until substantial completion (i.e., until it has completed building the new Complex and it has been certified as complete by an independent consultant).

Costs associated with delays that are the responsibility of Carillion Secure Solutions must be paid by Carillion Secure Solutions.

Site conditions and contamination

Carillion Secure Solutions accepted the site and the site conditions and shall not be entitled to make claims against the Province on any grounds relating to the site. Furthermore, Carillion Secure Solutions is responsible for remediation of any contamination at the site that was disclosed in or could have been reasonably anticipated from the environmental report or any of the geotechnical reports, or that is caused by Carillion Secure Solutions or any of its parties.

Development approvals

Carillion Secure Solutions is responsible for applying, obtaining, maintaining, renewing and complying with all development approvals.

<u>Mechanical and electrical systems responsibility</u> Carillion Secure Solutions shall be responsible for:

- any issues with respect to the functionality, durability, maintainability and lifecycle cost of the mechanical and electrical systems specified in their design, including whether such systems will be adequate to meet the output specifications on a consistent basis for the duration of the operational term; and
- the operation and periodic replacement of all elements of the facility, whether part of the mechanical and electrical systems or otherwise, including finishes, seals, structural components, hardware and building fabric, as required to achieve the output specifications for the duration of the operational term.

Construction financing

Carillion Secure Solutions is required to finance the construction of the project until the new Forensic Services and Coroner's Complex is substantially complete and the Ministry can occupy the facility. Carillion Secure Solutions will be responsible for all increased financing costs should there be any delay in Carillion Secure Solutions reaching substantial completion. This shifts significant financial risk to Carillion Secure Solutions in the case of late delivery.

Commissioning and facility readiness

Carillion Secure Solutions must achieve a prescribed level of commissioning of the new Complex at substantial completion and must co-ordinate the commissioning activity within the agreed-upon construction schedule. This ensures the Province will receive a functional building facility at the time payments to Carillion Secure Solutions commence. Carillion Secure Solutions will work closely with the Ministry to facilitate transition from existing facilities to the new Forensic Services and Coroner's Complex.

Activity protocols

Carillion Secure Solutions and Infrastructure Ontario have established a schedule for project submittals taking into account the time for review needed by Infrastructure Ontario's compliance architect.

This protocol mitigates against Carillion Secure Solutions alleging delay as a result of an inability to receive responses in a timely manner in the course of the work.

Change order protocol

In addition to the variation procedure set out in the project documents, Infrastructure Ontario's protocols set out the principles for any changes to the project work/scope during the construction period, including:

- requiring approval and processing of change orders from IO and Ministry of Community Safety and Correctional Services;
- specifying the limited criteria under which change orders will be processed and applied;
- timely notification of change orders to Infrastructure Ontario;
- approval by Infrastructure Ontario for ownerinitiated scope changes;
- approval by Infrastructure Ontario for any change orders which exceed pre-determined thresholds; and
- approval by Infrastructure Ontario when the cumulative impact of the change orders exceed a pre-determined threshold.

Facilities maintenance risk

As part of the project agreement, key risks associated with the maintenance responsibility (including life-cycle renewal) of the Complex over the 30-year service period have been transferred to Carillion Secure Solutions. Carillion Secure Solutions' maintenance of the building's lifecycle repair and renewal must meet the performance requirements set out in the project agreement. Under the project agreement, Carillion Secure Solutions faces deductions to its monthly payments if it does not meet its performance obligations.

In addition to the transfer of the above key risks to Carillion Secure Solutions under the project documents, the financing arrangement entered into between Carillion Secure Solutions and its lenders ensures that the project is subject to additional oversight, which may include:

- an independent budget review by a third-party cost consultant;
- monthly reporting and project monitoring by a third-party cost consultant; and
- the requirement that prior approval be secured for any changes made to the project budget in excess of a pre-determined threshold.

Achieving value for money

For the Forensic Services and Coroner's Complex, PricewaterhouseCoopers value for money assessment demonstrates a projected cost savings of 13.5 per cent, or \$111.5 million, by using the alternative financing and procurement (AFP) approach, as compared to the traditional procurement approach.

PricewaterhouseCoopers by was engaged Infrastructure Ontario to independently assess whether - and, if so, the extent to which - value for money will be achieved by delivering this project using the AFP method. Their assessment was based on the value for money assessment methodology outlined in Assessing Value for Money: A Guide to Infrastructure Ontario's Methodology, which can be found at www.infrastructureontario.ca. The approach was developed in accordance with best practices used internationally and in other Canadian provinces, and was designed to ensure a transparent conservative, accurate and Please refer to the letter from assessment. PricewaterhouseCoopers on page 2.

Value for money concept

The goal of the AFP approach is to deliver a project on time and on budget and to provide real cost savings for the public sector.

The value for money analysis compares the total estimated costs, expressed in today's dollars and measured at the same point in time, of delivering the same infrastructure project under two delivery models - the traditional delivery model (public sector comparator or "PSC") and the AFP model.

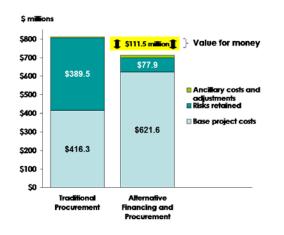
Model #1 Traditional project delivery (Public sector comparator)	Model #2 Alternative financing and procurement	
Total project costs that	Total project costs incurred	
would have been incurred	by the public sector to	
by the public sector to	deliver the same	
deliver an infrastructure	infrastructure project with	
project under traditional	identical specifications	
procurement processes.	using the AFP approach.	
project under traditional	identical specifications	

The cost difference between model #1 and model #2 is referred to as the value for money. If the total cost to deliver a project under the AFP approach (model #2) is less than the total cost to deliver a project under the traditional delivery approach (model #1), there is said to be positive value for money. The value for money assessment is completed to determine which project delivery method provides the greatest level of cost savings to the public sector.

The cost components in the VFM analysis include only the portions of the project costs that are being delivered using AFP. Project costs that would be the same under both models, such as land acquisition costs, furniture, fixtures and equipment, are excluded from this VFM calculation.

The value for money assessment is developed by obtaining detailed project information and input from multiple stakeholders, including internal and external experts in project management and construction project management. Components of the total project costs under each delivery model are illustrated below:

The value for money assessment of the Forensic Services and Coroner's Complex project indicates estimated cost savings of 13.5 per cent or \$111.5 million, by using the AFP approach in comparison to traditional delivery.



It is important to keep in mind that Infrastructure Ontario's value for money calculation methodology does not attempt to quantify a broad range of qualitative benefits that may result from using the AFP delivery approach. For example, the use of the AFP approach will more likely result in a project being delivered on time and on budget. The benefits of having a project delivered on time cannot always be accurately quantified.

These qualitative benefits, while not expressly quantified in this value for money analysis, are additional benefits of the AFP approach that should be acknowledged.

Value for money analysis

For a fair and accurate comparison, the traditional delivery costs and AFP costs are present-valued to the date of financial close to compare the two methods of delivering a design, build, finance and maintain project at the same point in time. It is Infrastructure Ontario's policy to use the current public sector rate of borrowing for this purpose to ensure a conservative and transparent analysis. For more information on how project costs are time-valued and the value for money methodology, please refer to Assessing Value for Money: A Guide to Infrastructure Ontario's Methodology, which is available online at www.infrastructureontario.ca.

Base costs

Base project costs are taken from the price of the contract signed with Carillion Secure Solutions and include all construction, maintenance and financing costs. The base costs between AFP and the traditional delivery model mainly differ as follows:

- Under the AFP model, the private party charges an additional premium as compensation for the risks that the public sector transfers to them under the AFP project documents. In the case of traditional delivery, the private party risk premium is not included in the base costs as the public sector retains these risks.
- 2. The financing rate that the private sector is charged under AFP is higher than the financing

rate of the public sector and is not included in the traditional delivery base costs.

In the case of the AFP model, the base costs are extracted from the price agreed among the parties under the project agreement. For the Forensic Services and Coroner's Complex project, these were \$621.6 million.

If the traditional model had been used for the Forensic Services and Coroner's Complex, base costs are estimated to be \$416.3 million.

Risks retained

Historically, on traditional projects, the public sector had to bear costs that go beyond a project's base costs because of the contingencies necessary developed to respond to the project risks.

Project risks are defined as potential adverse events that may have a direct impact on project costs. To the extent that the public sector retains these risks, they are included in the estimated project cost.

The concept of risk transfer and mitigation is key to understanding the overall value for money assessment. To estimate and compare the total cost of delivering a project under the traditional delivery versus the AFP method, the risks borne by the public sector (which are called "retained risks") should be identified and accurately quantified.

Comprehensive risk assessment not only allows for a fulsome value for money analysis, but also helps Infrastructure Ontario and the public sector sponsors to determine the party best able to manage, mitigate and/or eliminate the project risks and to appropriately allocate those risks under the project documents.

Under the traditional delivery method, the risks retained by the public sector are significant. As discussed on pages 13-14, the following are examples of risks retained by the public sector under the traditional delivery method that have been transferred under the project agreement to Carillion Secure Solutions:

- design compliance with the output specifications;
- construction price certainty;
- scheduling, project completion and potential delays;
- design co-ordination;
- site conditions and contamination;
- development approvals;
- design and lifecycle responsibility;
- mechanical and electrical systems responsibility;
- construction financing;
- schedule contingency;
- coordination of equipment procurement installation;
- commissioning and facility readiness; and
- activity protocols.

Examples of these risks include:

- Design coordination/completion: Under the AFP approach, the builder is responsible for design coordination activities to ensure that the facility is constructed in full accordance with the design in the project agreement. The builder is responsible for inconsistencies, conflicts, interferences or gaps in these design documents, particularly in the plans drawings and specifications; and for design completion issues that are specified in these design documents but erroneously left out.
- Scheduling, project completion and delays: Under the AFP approach, the builder has agreed that it will provide the facility for use by the Ministry of Community Safety and Correctional Services by a fixed date and at a pre-determined price. Therefore, any extra cost (financing or otherwise) incurred as a result of a schedule overrun caused by the builder will not be paid by the province, thus providing the builder a clear motivation to maintain the project's schedule. Further oversight includes

increased upfront due diligence and project management controls imposed by the builder and the builder's lender.

Infrastructure Ontario retained an experienced, third-party construction consulting firm, Altus Helyar, to develop a template for assessing the project risks that the public sector relinquishes under AFP compared to the traditional approach. Using data from actual projects as well as its own knowledge base, the firm established a risk profile under both approaches for infrastructure facilities.

It is this generic risk matrix that has been used for validating the risk allocation for the specific conditions of the Complex project.

Using the AFP model reduces these results to the public sector. For example, had this project been delivered using the traditional approach, design coordination risks that arise would be carried out through a series of change orders issued during construction. Such change orders would, therefore, be issued in a non-competitive environment, and would typically result in a significant increase in overall project costs for the public sector.

The added due diligence brought by the private party's lenders, together with the risk transfer provisions in the project documents result in overall cost savings as these transferred risks will either be better managed or completely mitigated by Carillion Secure Solutions.

A detailed risk analysis of the project concluded that the average value of project risks retained by the public sector under traditional delivery is \$389.5 million. The analysis also concluded that the average value of project risks retained by the public sector under the AFP delivery model decreases to \$77.9 million. This is a savings of \$311.6 million for Ontario taxpayers.

For more information on the risk assessment methodology used by Infrastructure Ontario, please refer to Altus Helyar's Risk Assessment Template

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DBFM projects, available at <u>www.infrastructureontario.ca</u>.

Ancillary costs and adjustments

There are significant ancillary costs associated with the planning and delivery of a large complex project that vary depending on the project delivery method.

For example, there are costs related to each of the following:

- Project management: These are essentially fees to manage the entire project. Under the AFP approach, these fees will also include Infrastructure Ontario costs.
- Transaction costs: These are costs associated with delivering a project and consist of legal, fairness and transaction advisory fees. Architectural and engineering advisory fees are also incurred to ensure the facility is being designed and built according to the output specifications.

The ancillary costs are quantified and added to both models for the value for money comparison assessment. Both project management and transaction costs are likely to be higher under AFP given the greater degree of up-front due diligence. The ancillary costs for the Forensic Services and Coroner's Complex project under the traditional delivery method are estimated to be \$5.3 million as compared to \$13.4 million under the AFP approach.

An adjustment is made when estimating costs under traditional delivery. This adjustment is referred to as competitive neutrality and accounts for items such as taxes paid under AFP that flow back to the public sector and are not taken into account under the traditional model, and private sector insurance premiums that can be used as a proxy for valuing insurance costs when the public sector self-insures under the traditional method. In the case of this project, this adjustment is made by adding \$13.0 million to the traditional delivery costs (i.e. on the PSC side). For a detailed explanation of ancillary costs, please refer to Assessing Value for Money: A Guide to Infrastructure Ontario's Methodology, which is available online at www.infrastructureontario.ca

Calculating value for money

The analysis completed by PricewaterhouseCoopers concludes that the additional costs associated with the AFP model are more than offset by the benefits which include: a much more rigorous upfront due diligence process, reduced risk to the public sector, and controls imposed by both the lenders and Infrastructure Ontario's standardized AFP procurement process.

Once all the cost components and adjustments are determined, the aggregate costs associated with each delivery model (i.e., traditional delivery and AFP) are calculated, and expressed in Canadian dollars, as at financial close. In the case of the Forensic Services and Coroner's Complex project, the estimated traditional delivery cost (i.e. PSC) is \$824.0 million as compared to \$712.5 million under the AFP delivery approach.

The positive difference of \$111.5 million or 13.5 per cent represents the estimated value for money by using the AFP delivery approach in comparison to the traditional delivery model.