

## **FINANCE & ADMINISTRATION COMMITTEE JULY 6, 2011**

### **CITY HALL AUDIT REPORT**

#### **Recommendation**

The City Manager recommends that the attached Audit Report prepared by Commercial Cost Control and presentation be received and that the auditor's recommendations with management's responses be approved.

#### **Contribution to Sustainability**

The City Hall project itself is a Gold LEEDS building. The audit to understand the reasons for the increased cost is appropriate and the results of the audit will be useful in the future as resources for future projects continue to be limited.

#### **Economic Impact**

There is no direct economic impact to approving this report. Implementing the auditor's recommendations and achieving the desired results will keep the City Hall project within the revised budget.

#### **Communications Plan**

The full audit report is available to the public through the agenda process and available on the City's website.

#### **Purpose**

The purpose of this report is to provide Council with the results of the audit of the City Hall Project.

#### **Background - Analysis and Options**

Staff provided a report recommending Terms of Reference for the scope of the audit to a Special Council meeting on March 29, 2011. Following approval of the Terms of Reference the City issued an RFP for audit services. Council awarded the audit to Commercial Cost Control on May 3, 2011.

The City Hall project was based on a design competition. At the time of tender award the project budget was \$107m. This project was the largest capital project the City had undertaken.

At the outset of the project the City recognized the size and complexity of the project and retained the services of a fairness monitor during the tendering process. In 2007, the City's internal auditor conducted an audit. The audit covered the selection of the Architect and the selection of the Contractor, including the complete purchasing process from the issuance of the RFI (Request for Expression of Interest); RFP (Request for Proposal) from the Architects; RFPQ (Pre-qualification for the General Contractor selection) and Tender for the construction of City Hall. The audit covered from the commencement of the project up to the pre-construction phase.

As part of the completion of the City Hall project it was appropriate to conduct an audit of the project costs, particularly since the budget was increased significantly. A project audit is not an uncommon practice. The internal auditor has audited other capital projects as part of his departmental audit program. For this audit particular expertise was required, which was only available externally.

The completion of the audit in a timely manner was dependent upon the auditors receiving the documentation requested and responses to their questions in a timely manner from the City, the General Contractor and the Architect. To assist in this regard and to ensure that the auditors meet the Terms of Reference approved by Council the City retained a project manager.

The audit is now complete and staff are in agreement with all the auditor's recommendations. The audit was conducted independently and as such the audit report and findings are those of the auditor's, Commercial Cost Control. Management's comments in response to the auditor's recommendations are provided separately in the report.

### **Relationship to Vaughan Vision 2020/Strategic Plan**

In consideration of the strategic priorities related to Vaughan Vision 2020:

#### **STRATEGIC GOAL**

Organizational Excellence – Ensure a High Performing Organization.

### **Regional Implications**

NA

### **Conclusion**

Staff brought forward the Terms of Reference for an audit of the city Hall project on March 29, 2011 and the RFP was awarded by Council on May 3, 2011. Staff are pleased that the audit has been completed within Council's desired timeframe and staff are also in agreement with the auditor's recommendations.

### **Attachments**

Commercial Cost Control Audit Report

### **Report prepared by:**

Clayton D. Harris  
City Manager

Respectfully submitted,

Clayton D. Harris, CA  
City Manager



**Construction Audit Report for**



**The Vaughan City Hall  
Vaughan, ON**

June 28, 2011  
Revision 0

COMMERCIAL COST CONTROL, INC.

## Construction Audit Report for



### The Vaughan City Hall Vaughan, ON

June 28, 2011

Revision 0

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COMMERCIAL COST CONTROL, INC.

**Construction Audit Report for**



**The Vaughan City Hall  
Vaughan, ON**

June 28, 2011  
Revision 0

**I. Executive Summary**

Commercial Cost Control, Inc. performed a review of the construction costs for the City of Vaughan's Civic Centre Phase I located in Vaughan, Ontario. Maystar General Contractors, Inc was engaged as the general contractor for this project with Kuwabara Payne McKenna Blumberg Architects as the project architect. The execution method for this project was a CCDC 2 (1994) Stipulated Price Contract.

One of the primary considerations throughout this report should be the building's complexity. The architectural vision that won the design competition may be the singular concept that ultimately affected nearly every aspect of the project; including the quality of design documents, the accuracy of the estimate, the City's ability to review the changes and efficiency of the contractors.

The following table shows a comparison of the forecast by the City in February 2011 with the results of this Audit.

<b>TABLE 1: Comparison of the FEB 2011 City Forecast with the Audit Forecast (CAD)</b>		
<b>Description</b>	<b>Forecast As Shown in Feb 2011</b>	<b>Adjusted Per the Audit</b>
Original Budget	84,300,000	84,300,000
Changes	22,336,018	21,038,406
<b>Total Forecasted Construction</b>	<b>106,636,018</b>	<b>105,338,406</b>
A/E Fee	6,771,444	6,688,011
Other Soft Costs	5,653,646	6,698,657
<b>Total</b>	<b>119,061,109</b>	<b>118,725,073</b>
Admin Fee	3,571,833	3,561,752
<b>Total w/ Admin Fee</b>	<b>122,632,942</b>	<b>122,286,825</b>

The next table shows a summary of the various audit findings that contain a cost component.

**TABLE 2: Summary of Financial Findings (CAD)**

Section	Description	Reduction to the GC Contract	Reduction to A/E Contract	Information Only	Comment
IV-1	Change Order Errors	(1,061,603)*			The change orders had a number of OHP fees and costs that were either unallowable or miscalculated per the terms of the contract
IV-2	Design Assist		(202,837)*		The mechanical subcontractor submitted costs for work that should have been the responsibility of the Mechanical Consultant under KPMB. This item was previously identified by the City and is currently under review.
IV-3	Detailed Change Review			30%	The changes appear to be overvalued by 30% if compared with the same work executed as base scope. The reasons for this include rework, inefficiencies due to cumulative changes and premium for changes.
IV-3	Labour Rates			35%	The labour rates used by the subcontractors averaged 35% higher than the market data for Toronto supports. This value equates to \$667K out of sampled change orders which extrapolates to \$1.2MM over all of the approved changes compared with the market data.
IV-4	Allowances	(615,692)			At the time of the audit, there is still over \$615K in allowances that should be credited to the City. This item has been tracked by the City and Architect during the duration of the project.
IV-5	Tax Credit			\$200K to \$300K	This value represents a rough estimate of the PST credit that is due to the City plus the remaining HST that the city will incur on this project for the base scope of work. The exact value for this is currently being evaluated by a separate consultant for the City.
IV-6	City Budgeted Items Transferred to Maystar			1,689,769	The AV/IT/Security items exceeded their original budget of \$3.34MM by \$1.69MM.
IV-7	Reduction of A/E fees for Deficient Design		(437,282)*		Due to a large number of changes as the result of A/E design deficiencies, KPMB has informally agreed to not charge their fee on a certain number of changes due to coordination issues.

<b>TABLE 2: Summary of Financial Findings (CAD)</b>					
<b>Section</b>	<b>Description</b>	<b>Reduction to the GC Contract</b>	<b>Reduction to A/E Contract</b>	<b>Information Only</b>	<b>Comment</b>
IV-8	Delay Claims				Maystar has indicated that they have pending delay claims. The exact value is not known but may be in the millions.
IV-9	Pending Changes			4,555,033	At the time of the audit, over \$4.5MM in changes have not been reviewed or approved by either the Architect or the City. This value is factored into the project forecast.
	<b>Total</b>	<b>(1,677,295)</b>	<b>(640,119)</b>		
<b>Total Findings</b>		<b>(2,317,414)*</b>			

*\*The supporting information and calculations for each finding should be reviewed with both the General Contractor and Architect/Engineer to verify the basis and understanding of the results.*

The next table is a summary of the changes as they relate to their root cause.

<b>TABLE 3: Summary of the Changes (CAD)</b>		
<b>Description</b>	<b>Value</b>	<b>Comment</b>
Owner Requested Changes Above the Budget	4,535,272	These are changes requested by the City either as part of operations or for the community that are above what was in the base scope of work.
Unforeseen Site Conditions	2,369,730	These are changes due to circumstances and conditions that may not have been predictable even with extensive planning.
Local Code Regulations	578,673	These are changes due to either changes in the local code requirements or due to interpretation differences by the inspectors.
Changes Due to the A/E Design	6,943,293	These are changes that are a result of drawings that are either under-designed or mis-designed by the A/E firms \$3.66MM of this cost is due to the Mechanical design.
Other	348,189	This is all of the other items that could have created changes including the cumulative effect of changes on the schedule which would create additional costs.
<b>Total</b>	<b>14,775,158</b>	<b>The total does not include the base AV/SEC/IT value of \$3.34MM</b>

This final table shows a list of findings that are more reflective of the City's internal processes and procedures.



TABLE 4: Qualitative Findings		
Section	Category	Description
IV	Identification of Project Overrun	The formal change orders exceed the project budget in March, 2009 with the premise that the Facilities group assumed that they had a \$3MM contingency in the \$107MM Budget
IV	Accuracy of the Original Estimate	The original budget of \$107MM may have had unidentified risk of another \$11MM due to how complete the drawings actually were at the time of bid.
IV-1	Bid Analysis	The spread between the three acceptable bids may have been an indication that the drawings were not being uniformly interpreted. Further bid analysis may have revealed some level of deficiencies in the design.
IV-2	Contingency Factoring	The City did not appear to apply any level of contingency analysis to this project at the construction, design or project wide level.
IV-3	Regular Reporting	The new City Hall Project did not appear to have any policies and procedure requiring formal reporting between the consultants/contractors and the City as well as between Facilities and the other components of the City.
IV-4	Cash Flow	The City does not use any formal cash flow system for their project tracking.
IV-5	Change orders signing and COP	The City was billed for over 281 COs with a value of over \$6MM that was invoiced to the City of Vaughan but did not have the formal approval.
IV-6	Institutional Memory	There were certain informal process and procedures in place on this project for reviewing, approving and tracking the scope of changes that are considered advanced for any organization. These items should be captured as lessons learned for future Institutional Knowledge.

The analysis made during the audit resulted with several conclusions:

- The analysis from the audit suggests that the original budget of \$107MM may have been undervalued. This is derived from the types and magnitude of changes, along with the supporting data for the \$107MM approved budget, and the assumptions about how complete the drawings were at time of bid. However, the project design was complex from the architectural vision, the LEED requirements and the overall magnitude in relation to the average projects executed by the City. It is a common construction mistake to not include the proper level of contingencies when performing projects significantly outside of an organization's typical model.
- At the time of the audit, there was approximately \$4.5MM in changes that had not been submitted by the GC. The Facilities group anticipated a certain level of these changes in their February 2011 forecast. At the time of the audit, there was only \$2.5MM in remaining funds of the \$122.6MM forecast allocated to these changes. Through both the audit findings and several items tracked by the city, there was \$2.3MM in reductions that can be made to the project. If the audit findings are not accepted, the audit forecast will increase to \$124.6MM.



- Regular reporting was performed on the progress of the project. However, regular trending and forecasting of the costs against changes and commitments was not done. Indicators did exist on the project near the end of 2009 and the beginning of 2010 that the project budget was in jeopardy of being exceeded. Performing this level of analysis for this type of project, however, may have been beyond the construction experience and skill sets of the City's internal staff. This level of proactive project control is not part of the normal services that architects or general Contractors provide.
- The data analysis suggests that the project could have been executed at a lesser value than what the audit has forecasted. This may have been achieved if additional time had been spent to further develop and validate the A/E design and the city requirements. These savings would have been related primarily to the premium expense of executing a portion of the project with changes. The results from the analysis of change orders suggest that this value is as high as 30% of the value of changes due to such items as rework, labour rates, material premiums and decreased productivity due to the cumulative effect of changes. However, considering the actual execution method, the total forecasted cost per the audit appears to be reasonable and appropriate for a project of this size, scope and requirements.
- There is evidence that the Facilities group along with the A/E consultants and other external consultants exerted a high level of diligence in the verifying that all change items were valid scope changes to the general contractor. The majority of the findings from the audit are the results of how the contractual terms were applied and calculated on the changes by the General Contractor.

All of the findings are described with more detail in the subsequent sections of this report.

## II. Definitions of Acronyms and Abbreviations

**A/E:** Architectural and Engineering

**AACEI:** The Associate for the Advancement of Cost Engineering International

**AV:** Audio Visual

**CCC:** Commercial Cost Control, Inc.

**City:** The City of Vaughn

**CCO:** Contemplative Change Order

**CD:** Change Directive

**CM2R:** Curran, Macabe, Ravindran and Ross

**CO:** Change Order

**COP:** Certificate for Payment

**COW:** Cost of Work

**E/O:** Errors and Omissions

**GC:** General Contractor

**GST:** Federal Goods and Service Tax

**HST:** Harmonized Sales Tax

**FF&E:** Furniture, Fixtures and Equipment

**IT:** Information Technology

**KPMB:** Kuwabara Payne McKenna Blumberg Architects

**LEED:** Leadership in Energy & Environmental Design

**MC:** Maystar Cost Item

**OHP:** Overhead and Profit AKA Fee

**PROJECT:** Construction of the New Vaughan City Hall Building

**PST:** Ontario Provincial Sales Tax

**RFI:** Request for Information

**SCO:** Subcontract Change Order issued from the GC to the Subcontractor

**SI:** Supplemental Instruction

**WSIB:** Ontario Workplace Safety and Insurance Board

### III. Understanding of Project History

Under a need for growth and expansion, the City of Vaughan began the project planning of a New City Hall that would be large enough to accommodate the majority of the city staff in one building. The architectural contract with KPMB was recommended to City Council in June 2004 based on the results of a design competition. The following table shows the evolution of the project budget from schematic design to award of a general contractor.

<b>DATE</b>	<b>NOV 2004</b>	<b>OCT 2005</b>	<b>MAR 2006</b>	<b>NOV 2006</b>	<b>DEC 2006</b>
Design Level	Schematic	50%	80%	Bid Tender	Maystar Award
<i>SQF</i>	<i>276,689</i>	<i>280,144</i>	<i>280,144</i>	<i>280,144</i>	<i>292,000</i>
Construction	71,382,675	79,347,000	78,190,000	90,971,000	84,300,000
A/E Contract Fee	3,926,047				5,816,700
A/E Fee %	5.5%				6.9%
Other	10,919,621				8,772,795
AV/Sec/IT	3,000,000				3,344,000
Upgrade for Storm sewer, floor slabs, groundwater management & LEEDS					1,650,000
Contingency or Admin Fee <sup>A</sup>					3,116,505 <sup>A</sup>
<b>Total Project Estimate</b>	<b>89,228,343</b>				<b>107,000,000</b>
Source	Meeting Minutes of NOV 2004	CM2R Estimate	CM2R Estimate	CM2R Estimate	Meeting Minutes of DEC 2006
Soft Cost % of Construction (not including Upgrade for LEEDs)	25%				25% <sup>A</sup>
Total \$/SQF	322.49				366.44

*NOTE A: The difference between Contingency and Admin Fee will be addressed later in the report. The effective soft cost % is 21% if the \$3.1MM is considered to be Admin Fee. The City made this determination in retrospect when it was finally agreed that this value was for the Admin Fee and not Contingency.*

The growth of the budgetary estimates from the Nov 2004 estimate were attributed to price escalation, the desire for a LEED Gold Certified Building, additional design requirements by the City and an increase in the floor plan. CM2R was engaged as an independent consultant to provide budgetary estimates based on the A/E drawings during design development. In addition to CM2R, the City engaged an independent architectural consultant to provide opinions and guidance for the project's design and technical execution. In addition, the City engaged a fairness monitor the bidding process for the general contractor. Both of these engagements were initiated by the city as a proactive effort in providing diligence and transparency to the project.

The Architect advised that the design drawings were approximately 95% complete at the time they were issued for bid tender. This tender was issued in June 2006 prior to the bidding process. Eleven qualification documents were submitted to the City. Only 5 of the 11 contractors were considered to be qualified. The bidding spanned over 6 months with multiple extensions to the bid closing date. Two of the qualified bidders did not submit a quote. Of the remaining three, Maystar was ultimately selected as the General Contractor based on having what was considered to be the lowest responsible bid of \$84.3MM.

The final budget was presented to the Council in December 2006 for a value of \$107MM, which included all the soft costs that pertained to construction. The original budget included 25% of the construction value allocated to the soft costs. It was indicated that the City did not further refine the details of their soft cost allocation during the design development stage. In June 2007, the City's internal auditor issued a report that concluded all bidding and procurement policies were followed in selecting the General Contractor.

Early in the construction phase of the project, several unforeseen conditions were encountered including a higher-than-expected flow rate for the water table and unsuitable soils. There were additional scope requirements made by the City and further A/E design development that resulted in change orders to Maystar. The original substantial completion was September 2009. This date was extended to March 2010 due to the unforeseen conditions, design changes, complexity of the curtain wall and its installation. Substantial completion was achieved in March 2011.

In response to a question from the City's management in mid 2010, the Facilities group provided a memo of the current status of the project budget. Concurrently, the Finance group had recognized indicators from the project spending that there was a potential overrun of \$1.6MM above the base budget of \$107MM. Additional analysis was performed and, in February 2011, the total value of the project was estimated to be over \$122MM. At the time of the audit site visits, there was still \$1.8MM in contractual work left to be completed including exterior paving, landscaping and the green roof. There were also outstanding deficiencies that were logged by the Architect to be corrected.

It should be noted that regular meetings were held with a project steering committee and the total City's construction budgets were reported on a quarterly basis. These meetings and reports did address aspects of the progress of the project, but did not contain analysis regarding the forecast or trending of the total project cost.

#### IV. Accountability of Project Growth

The following table shows a simplified summary of the project forecast provided by the City's Facilities group in February 2011 and adjusted for the known changes at the time of audit. This table does not incorporate findings from this audit.

<b>TABLE 6: Summary of Facilities Forecast (CAD)</b>		
<b>Description</b>	<b>FEB 2011</b>	<b>MAY 2011*</b>
Base Contract	84,300,000	84,300,000
Changes	16,098,308	18,249,028
<b>Adjusted Contract</b>	<b>100,398,308</b>	<b>102,549,028</b>
A/E	6,771,444	6,771,444
Consultants	2,082,218	2,082,218
FFE	2,955,330	2,955,330
Other	616,098	616,098
Admin Fee	3,384,702	3,449,224
Additional forecasted Changes	6,424,841	4,209,599
<b>Total Forecast</b>	<b>122,632,942</b>	<b>122,632,942</b>

*\*Adjusted at the time of the audit visit*

The forecast of \$122.6MM represents a \$15.6MM (or 15%) increase to the approved project budget of \$107MM. Note that the changes to Maystar of \$18.2MM include \$3.44MM of allocated funds for the AV/IT/Security work which was transferred from the project's soft costs into the construction budget. This accounts for the difference of Maystar's \$18MM in changes against the \$15.6MM budget overrun.

The next table shows a summary of the changes in several major categories:

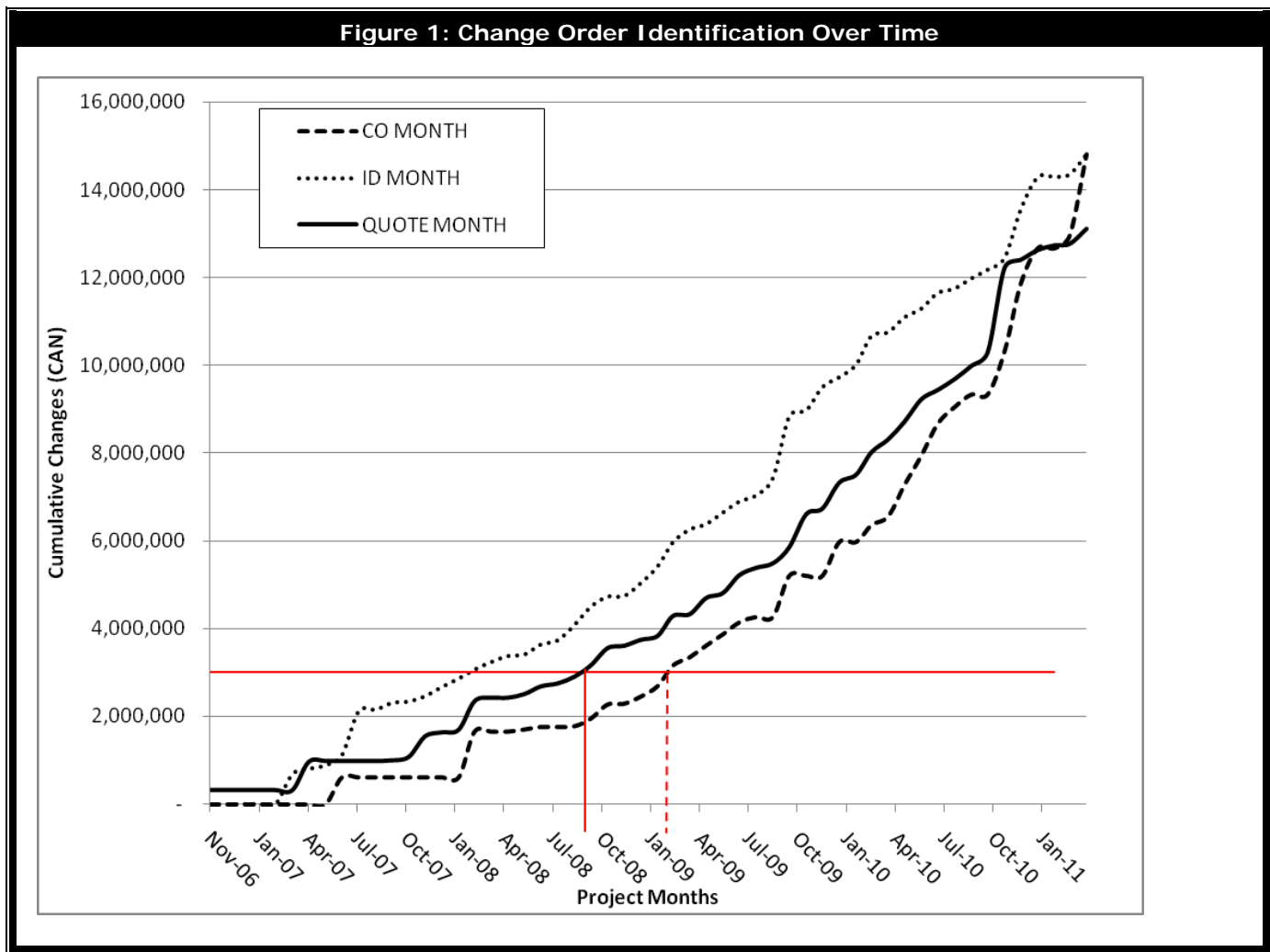
Description	Value	Comment
Owner Requested Changes Above the Budget	4,535,272	These are changes requested by the City either as part of operations or for the community that are above what was in the base scope of work.
Unforeseen Site Conditions	2,369,730	These are changes due to circumstances and conditions that may not have been predictable even with extensive planning.
Local Code Regulations	578,673	These are changes due to either changes in the local code requirements or due to interpretation differences by the inspectors.
Changes Due to the A/E Design	6,943,293	These are changes that are a result of drawings that are either under-designed or mis-designed by the A/E firms \$3.66MM of this cost is due to the Mechanical design.
Other	348,189	This is all of the other items that could have created changes including the cumulative effect of changes on the schedule which would create additional costs.
<b>Total</b>	<b>14,775,158</b>	

The next table shows a more detailed categorization of the change orders. This categorization was developed from the information provided by the Architect, City and review of the changes during the audit. A full list showing the category for each change can be found in Appendix A.

Description		Architectural	Civil/ Structural	Electrical	IT/AV/Sec	Mechanical	TOTAL
Owner Driven	Community Oriented	74,115	-	146,394	-	461,166	<b>681,676</b>
	Operational Oriented	1,593,722	185,113	253,729	5,066,443	136,247	<b>7,235,254</b>
Unforeseen		287,205	2,369,730	10,120	42,874	7,991	<b>2,717,920</b>
Code Compliance		108,400	29,430	161,220	-	279,622	<b>578,673</b>
Error		318,753	242,350	104,773	-	2,083,289	<b>2,749,166</b>
Omission		34,771	34,982	39,447	-	305,984	<b>415,184</b>
Design Deficiency		1,312,731	703,981	295,847	128,969	1,337,416	<b>3,778,944</b>
<b>TOTALS</b>		<b>3,729,697</b>	<b>3,565,588</b>	<b>1,011,530</b>	<b>5,238,286</b>	<b>4,611,715</b>	<b>18,156,815</b>
Less Owner Carried Budget		(17,657)			(3,364,000)		<b>(3,381,657)</b>
<b>Revised Totals</b>		<b>3,712,040</b>	<b>3,565,588</b>	<b>1,011,530</b>	<b>1,874,286</b>	<b>4,611,715</b>	<b>14,775,158</b>

The summaries above show the nature of the growth to the project. As part of the audit scope, an analysis was conducted to chronicle the changes and determine approximately how

early in the project the overrun could have been identified. The following chart shows a history of the cumulative changes to Maystar excluding the \$3.34MM in changes for AV/IT/Security that was originally included in \$107MM total budget, but not in Maystar's original bid scope. This adjustment was made so the curves were not skewed by changes to Maystar that were not changes to the project. This report will later address how the total value for these items exceeded their base budget. These overages are included in the curves on the next table.



The X-Axis of this chart represents project months The Y-Axis represents the total cumulative change values to Maystar. The three black lines represent the following:

- ID Month: The earliest date that the change was documented either through a potential change notice (CD, SI, MC or COO) or meeting minutes. The costs associated with this line represent the eventual change value. These values would not have been known at the time the potential change was identified.

- CO Month: The date the change order (“CO”) was issued by the architect to the city. This represents the earliest date that the city formally had documentation showing the value of the changes.
- Quote Month: The date of the last quote received for each change by Maystar. This date represents the earliest date that the total price of the changes was quantifiable.

Under the scenario where the Architect and General Contractor are in full communication with each other, the “Quote Month” line represents a close approximation of the earliest dates that change values could have been communicated to the City.

The intersecting red lines represent when the cumulative changes cross the \$3MM mark. The City’s Facilities group indicated that they believed they had a \$3MM contingency as part of the \$107MM budget. However, Council meeting minutes from June 27, 2005 show that the \$3MM was to be assigned as part of the City Administration Fee. There may have been further discussions that created the misunderstanding between the City’s financial and Facilities group that were not documented.

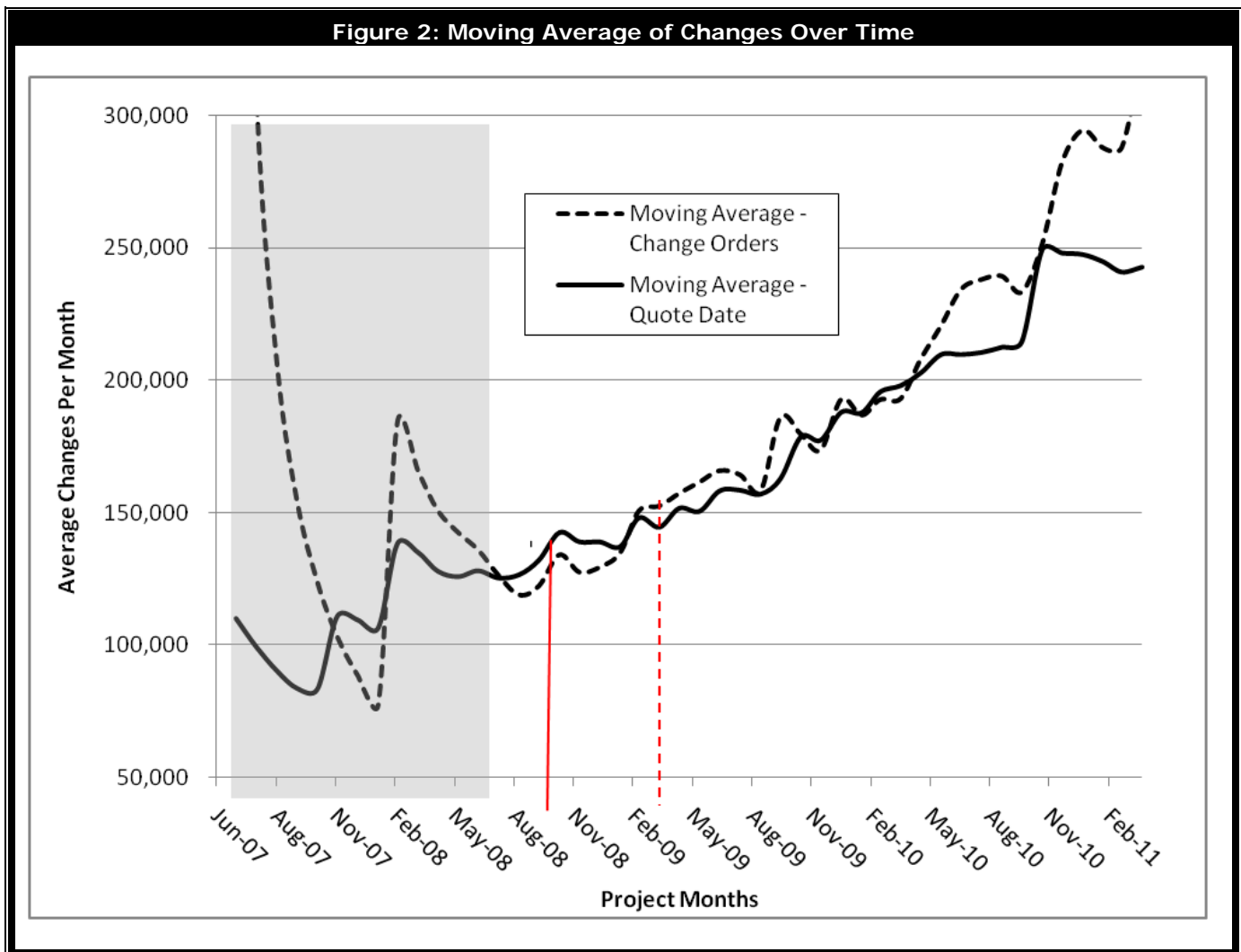
The horizontal red line assumes that the Facilities group truly believed that they had a \$3MM contingency. This line intersects with the Change Order Dates at March 2009. The intersection for the Quote Date is October 2008. The implication of this line is that the Architect and General Contractor could have reported the total changes exceeding \$3MM in October 2008. The formal change documentation would have shown the costs exceeding \$3MM in March 2009.

It may be concluded from this chart that the data of the cumulative cost overruns should have been known by March 2009. The Facilities group indicated that they were aware of the magnitude of the total changes at that point, but they were anticipating the level of changes would “taper off” for the remainder of the project. However in October 2008, the Architect prepared CCO 160 along with the drawings and design data for the Daycare center. The change order was formally approved by the Facilities group in January 2010 for the initial scope. The total for the Daycare center eventually cost over \$1.2MM. A breakdown of the changes that contain the costs for the Daycare are shown in the next table

<b>TABLE 9: Summary of Changes for the Daycare (CAD)</b>			
<b>CO</b>	<b>Date</b>	<b>Description</b>	<b>Value</b>
174	1/22/2010	Daycare - Mechanical Scope (160.1)	461,166
214	5/27/2010	Daycare - Electrical Scope (160.2)	146,394
225	5/27/2010	Daycare Raised Flooring (160.6)	67,580
263	8/23/2010	Daycare Area (Drywall- 160.4)	161,292
311	11/1/2010	Daycare Tile Scope	114,605
313	11/1/2010	Security Door Contacts at Daycare	10,606
340	12/2/2010	Daycare Painting and Millwork	37,382
355	12/22/2010	Level 000 Daycare Washrooms 021R and	8,513
395	1/31/2011	Daycare Washroom - Room 021K - Added	7,390
516	4/29/2011	Daycare hardware and glazed partitions	191,594
		<b>TOTAL</b>	<b>1,206,522</b>



At the point in time that the Daycare was included, the total cumulative changes were already at \$6.9MM. While the cumulative information is useful for tracking, a moving average line is what shows the trends in changes for the project. The next chart shows the moving average of changes in relation to the months of the project.



The moving average for the COs appears to maintain a continued upward slope, indicating that the COs for each month is greater than they were for nearly every month previous. Ideally, the COs should start to reduce as the project nears completion. Note that the gray section of the graph represents the point in the project that is too early to start trending. The red lines correspond to the months shown on the earlier chart for cumulative changes.

This analysis illustrates that the trends were showing continued increases in changes per month at the \$3MM cost milestone. The trend suggests that the cost data contained indicators of overruns as early as October 2008. It may not be appropriate, however, to assume that the City's consultants and contractors would have performed these types of analysis. This level of trending and forecasting is not typically performed by general

contractors. Despite being in the role of contract administrator, architects are also not typically versed in the forecasting discipline of cost engineering.

Another way of analyzing the level of cost increase is to determine the completeness of the budgetary estimates along with an understanding of the associated risks. The City was proactive in retaining CM2R to provide an independent estimate based on the architectural drawings. Additionally, various meeting minutes from the City outline the assumptions made as part of the budgets including the justification for the 25% soft costs. Regardless, the budgets did not address several potential factors including the following:

- **Accuracy of the Estimate:** Every estimate has a certain level of accuracy that is directly related to the progress of the design on which the estimate is based. The Associate for the Advancement of Cost Engineering International (“ACEI”) has published a list of the accuracy ranges for different levels of estimates. When the design is at schematic design, ACEI has determined that an estimate’s accuracy cannot be better than +30/-15%. The City Hall estimate at schematic was value at \$89MM which would give it a high side potential of \$116MM. At Bid Tender level, ACEI has determined that the estimate cannot be more accurate than +10/-5%. The City Hall estimate at Bid Tender level was value at \$107MM which would give it a high side potential of \$118MM. Both cases show a potential for this project to be in the range of \$110MM to \$120MM.

There was no documentation that was presented during the audit that this type of risk was understood or communicated as part of the decision making process. This is a common mistake in budgeting for construction projects as decision makers typically look for the potential low side in costs rather than the magnitude of the potential risk.

- **Accuracy of the Drawings:** It is generally accepted there is no design from an A/E firm that is without some level of flaws. Although there is no absolute definition on the standard of care expected from an architect, the construction industry in western culture has trended towards accepting between 3% and 5% of the base construction value for costs associated with design deficiencies. This concept is important to understand and evaluate when planning for the project contingency beyond what is typically set aside within the actual construction portion.

There was no documentation that was presented during the audit that this type of risk was understood or communicated as part of the decision making process. This is a common mistake in budgeting for construction projects as architects do not advertise this assumption in the design. The table categorizing changes found earlier in this section show how much of the project increases were due to the further refinement of design documents.

It should be noted that the building was considered to have a fairly complex design using many “non-standard” components to achieve both the architectural vision and some aspects of the LEED certification. A

conservative estimate would have factored this information and allowed for a greater level of potential error by the A/E firms.

- **General Project Contingency:** Beyond the contingencies for budget accuracy, drawing accuracy and general construction items, it is a good practice to include a level of contingency on the total project to account for changes initiated at an owner's management level. Large projects have an inherent risk of owner driven changes due to their longer durations. Projects spanning more than one year can often experience changes in needs, policies, corporate directions and local ordinances. Many projects budget between 5% and 10% above the construction value to account for these types of potential impacts.

It should be noted that the York Region has identified these types of risks as a common part of construction and recommend between a 25% and 35% contingency of the total budget on all projects.

The initial project estimates may have accurately reflected what was shown on the actual design documents. However, the estimates did not account for the risks associated with the possible design deficiencies. These factors would not have been assessed by CM2R or Maystar as their scope was only to review the construction costs. It is also uncommon for architects to address these types of risks. Additionally, owners do not typically address these types of costs unless they are seasoned on large multi-year projects. In short, the lack of risk identification is a very common mistake made in project budgeting.

The conclusion of the various discussions in this section is that data existed from the beginning of this project indicating a risk of potential project overruns. However, providing accurate forecasting of the true level of overruns may have been beyond the experience or skill set of the City's staff. This project was known to be much larger than what the City typically executes.

The other conclusion of the data is that it may have been possible for the project to have been executed at a lesser value than what the audit has forecasted had additional time been spent to further develop and validate the A/E design and the city requirements. These savings would have been related primarily to the premium expense of executing a portion of the project with changes. It is important to consider that additional design time may have resulted in delaying the project start which could have resulted in a different bidding environment. Considering the actual execution method, the total forecasted cost per the audit appears to be reasonable and appropriate for a project of this size, scope and requirements.

## V. Detailed Observations for Cost Findings

This section of the report will provide details of the cost findings from this audit. The following table shows total project costs forecasted with the audit findings.

Description	Adjusted Per the Audit
Original Budget	84,300,000
Changes	21,038,406
<b>Total Forecasted Construction</b>	<b>105,338,406</b>
A/E Fee	6,688,011
Other Soft Costs	6,698,657
<b>Total</b>	<b>118,725,073</b>
Admin Fee	3,561,752
<b>Total w/ Admin Fee</b>	<b>122,286,825</b>

The following sections describe all of the findings related to the cost of the project:

### 1 Change Orders Discrepancies

The following table shows a summary of the changes orders as submitted by Maystar to KPMB.

Description	Value
Subcontractors	15,165,254
Subcontract Fee	1,542,193
<b>Subtotal</b>	<b>16,707,447</b>
GC Fee	1,475,306
Other Maystar Adjustments	(25,937)
<b>Total</b>	<b>18,156,815</b>

In reviewing the change orders, a number of different discrepancies were found. This section will discuss each type of discrepancy and then provide a recalculation of the changes to address each of the adjusted values. This approach has been used due to the interrelationship that many of the discrepancies have with each other.

#### **Unallowable Markup on 2<sup>nd</sup> Tier Subcontractors**

The contract Amendment includes the following provision for changes:

*6.1.3.4 "If a Subcontractor retains another subcontractor (sub-subcontractor), no additional mark-up shall be charged to the Owner for the sub-subcontract work."*

This statement means that a subcontractor may not apply OHP to each of their own subcontractors (2<sup>nd</sup> Tier) or further levels of subcontractors (Multi-Tier). The mechanical subcontractor, Pipe-All, used GD Sheet Metal, G & R Fire and Aquanorth as 2<sup>nd</sup> Tier Subcontractors. GD Sheet Metal used Johnson Controls as a 3<sup>rd</sup> tier subcontractor. Appendix B shows a complete list of each of the changes that includes a multi-tier subcontractor where additional OHP was billed beyond the OHP allowed per the Contract. The total of this value was approximately \$1.9MM including OHP that was incorrectly applied to the 1<sup>st</sup> tier subcontractor. The approximate value of this error is \$300K.

### **Maystar Applied OHP on Subcontractor Quotes that Included OHP**

A number of changes contained supporting documentation that showed Maystar added subcontractor OHP on subcontractor quotes that already included OHP. Appendix C shows a complete list of each of the changes that includes double OHP markup. The value of the changes that already included OHP was approximately \$2.2MM before Maystar applied their subcontractor OHP calculation. The approximate value of this error is \$340K.

### **Unallowable Overhead Costs**

Several subcontractors included costs for Management/Supervision, as well as other costs which the Contract specifically states are included in OHP. The Contract language states the following:

*6.1.4 Costs for the following items shall be considered to be included in the allowance for overhead:*

*6.1.4.1 Contractor's site and head office expenses*

*6.1.4.2 Wages of project managers, superintendents, assistants, watchpersons and administrative personnel*

*6.1.4.3 Temporary site office, including costs for telephone and facsimile machine*

*6.1.4.4 Small tools (valued less than \$2000)*

*6.1.4.5 Insurance and bonding premiums subject to GC 6.1.10.*

*6.1.4.6 Record drawings (per Owner's AutoCAD layering standard.)*

Appendix D shows a complete list of each of the changes to support these calculations. The approximate value of these unallowable costs totaled \$195K making the approximate value of this error to be \$250K after the applicable OHP is added.

### Mistakes on Change Orders

Several Change Orders included math errors of various types:

- Change Orders with negative and positive amounts included Maystar fee on the positive amount rather than the net amount.
- The credit amounts on one Change Order were not included in the CO total.
- Credit change orders that were duplicated
- Transpositions or other typographical errors occurred on several changes.
- The subcontractor total was incorrectly stated on one change.

A complete list of these items can be found in Appendix E. The value related to this error is approximately \$25K.

### OHP Calculations

The Contract Amendments defines the allowable mark-ups as shown below:

*6.1.3.1 Contractor mark-up on its own work: Overhead and Profit: 15%*

*6.1.3.2 Contractor mark-up on Subcontractor work: Overhead and Profit: 10%*

*6.1.3.3 Subcontractor mark-up on its own work: Overhead and Profit: 15%*

Maystar included 15% OHP for Contractor work and 10% OHP for its own work on three COs: numbers 2, 9, and 51. However, on all other COs, Maystar included 10% plus 5% for Contractor work and 5% plus 5% for its own work. This item can be more easily illustrated as follows using a base subcontract value of \$10K:

Description	Contract Intent		Maystar Applied		Delta
	%	Value	%	Value	
<b>Subcontract Value</b>		<b>10,000</b>		<b>10,000</b>	
Overhead	15%	1,500	10%	1,000	
Profit			5%	550	
<b>Subtotal</b>		<b>11,500</b>		<b>11,550</b>	<b>50</b>
Overhead	10%	1,150	5%	578	
Profit			5%	606	
<b>Total</b>	<b>26.5%</b>	<b>12,650</b>	<b>27.3%</b>	<b>12,734</b>	<b>84</b>

It is because of this discrepancy that the values for the other items in this section are approximated. This calculation can occur anywhere from the 2<sup>nd</sup> tier subcontract level to the general contractor level. Additionally, every adjustment that is made due to the other items has to have OHP applied to them.

**Total of Change Discrepancies**

The following table shows a total recalculation of all of the changes for the items described above. Appendix E shows the re-calculation for each change orders. There are a number of changes which were not recalculated because the subcontractor OHP was not explicitly identified or separated by Maystar. Without this level of explicit identification, it cannot be assumed that the OHP was incorrectly applied.

<b>TABLE 13: Recalculation of the Change Orders (CAD)</b>			
<b>Description</b>	<b>1st Tier Subcontractors</b>	<b>2nd Tier Subcontractors</b>	<b>Total</b>
Subcontractor without Fee	10,132,751	921,806	11,054,557
Unallowable Overhead Costs by the Subcontractors	(195,019)	(162)	(195,181)
Other Adjustments	(4,943)		(4,943)
<b>Subtotal</b>	<b>9,932,789</b>	<b>921,643</b>	<b>10,854,433</b>
Recalculated Fee at 15%	843,663	138,989	982,652
Subcontracts w/ Fee not Explicitly identified	3,054,977	882,254	3,937,231
Additional Un-allowable Costs w/ Fee		(6,720)	(6,720)
<b>Subtotal</b>	<b>13,831,428</b>	<b>1,936,167</b>	<b>15,767,595</b>
Maystar Fee at 10%			1,349,562
Credits that were not calculated as part of the change by Maystar, but should be included			(21,945)
<b>Total</b>			<b>17,095,212</b>
Delta from Change Value of \$18,156,815			(1,061,603)

**Priority Level:** High

**Recommendation:** It is recommended that these calculations be reviewed with Maystar. Unless Maystar can provide explicit communication from the City to allow these specific charges, it is recommended that the City request a credit of \$1,061,603 from Maystar.



**Response from the City of Vaughan:**

Management agrees with this recommendation. The city typically utilizes industry standard construction documents (CCD2-1994) when executing construction contracts, and the City Hall project was no exception. The CCD2 was executed with Maystar as the general contractor. The total of change discrepancies occurred as a result of clauses stipulated in an amendment to the CCD2 contract. This amendment (Section 00800 – June 14, 2006) was created by KPMB and should have been applied and managed by the Architect. There was a “high level of diligence in the verifying that all change items were proper scope changes”. Resources to reconcile COs were not always available during the project, therefore all COs were well documented, allowing Vaughan and the Architect to go back and audit the invoices and resolve CO discrepancies at the close-out of the project.

**2 Subcontractor Design Assist**

As shown earlier in the report, there were a number of change orders that were related to the mechanical design of the project. The mechanical subcontractor, Pipe-All, submitted costs within some of these changes for work beyond what would be considered the normal scope of work for a subcontractor. The audit has labeled this work as “Design Assist” as it was providing direct support to the mechanical design consultants.

Under the premise that the subcontractor performed work beyond their contractual scope, it is reasonable that they should be reimbursed for these costs. Note that the type of work that was done is not included in the supervising provision of the Contract Addendum. If the subcontractor is due these funds, it is also reasonable that the general contractor is also allowed to receive OHP as part of the contract terms.

However, it may not be reasonable that the City should have to incur additional costs for the work that should have been part of the mechanical consultant’s scope. The following table shows a list of these items with a reference to the CO where these costs were presented.

<b>TABLE 14: Summary of Subcontractor Design Assist (CAD)</b>			
<b>CO#</b>	<b>Description</b>	<b>Hours</b>	<b>Value</b>
45	Indirect Labour - demonstrate installation to Stantec and KPMB, review with mfr, Stantec, KPMB, study and suggest solution, disassemble wc and send back to mfr.	80	6,800
71	Indirect Labour - pipe sizing calculation, produce schematic, layout pipe, coordinate with other trades, make as-builts.	45	3,825
137	Review dwgs, co-ordinate between trades, relo equip, meet with consultants, create new piping layout, piping as per final layout, as-builts	540	42,660
138	Send RFI, review, make sketches, co-ordinate, as-builts	144	11,376
142	Review drawings, send RFIs, discuss with consultants, meet with consultants, site supervision & as-builts	100	8,500
146	Indirect Labour - review drawings, discuss with consultants issue RFIs, co-ordination & supervision, as builts	68	5,780
149	Review dwgs, issue RFIs, meet with consultants, piping for extra drain	460	36,340
173	Indirect labour - Review dwgs, send RFI, meet with consultants	40	3,400
179	Review installation, issue RFI, review with consultant, made proposal, made sample, cut holes	86	6,794
228	Suggest alternative methods, meet with architect, eng and other trades	20	1,700
233	Review snow melting system, review installation, issue RFI, review response and discuss with manufacturer	18	1,530
301	Indirect labour - ask questions; demonstrate installation; review installation with manufacturer, plmg inspector, Stantec; suggest solution; send back to manufacturer	80	6,800
422	Review site conditions, issue RFI, meet with consultant, propose solution, issue sketches, remobilize, install piping, pressure testing, gas inspection	276	24,840
	<b>Subtotal</b>		<b>160,345</b>
	Subcontract OHP (15%)		24,052
	General Contractor OHP (10%)		18,440
	<b>Total</b>		<b>202,837</b>

The value of \$202,837 as shown on this table represents the value that was paid to the subcontractor for design assist services with the adjustments for the correct OHP multipliers.

The City's Facilities group was consulted on this item and they indicated that discussions about the possible backcharge for these services were held with the Architect. At the time of the audit site visit, the Facilities group and Architect were reviewing these costs. The total had not yet been determined.

**Priority Level:** High

**Recommendation:** It is recommended that this finding be addressed with KPMB. KPMB should be allowed the opportunity to verify that these costs are, in fact, due to design assist services. The final agreed upon amount should be deducted from KPMB's final fee.

Any amount of fee that the City and KPMB mutually agree is not due to design assist should revert to the "Unallowable Overhead Costs" as defined in the contract amendment provisions 6.1.4.1, 6.1.4.2 and 6.4.1.6. In either case of unallowable

OHP or design assist, the City should not have to incur a net increase to the cost of the project for these services.

**Response from the City of Vaughan:**

Management agrees with this recommendation. In fact, Staff had already identified that the mechanical contractor was having to perform additional design work due to the complexity of the building's mechanical design. This review was well underway prior to the audit being requested and will itemize CO where this occurred and reconcile the design costs.

### 3 Detailed Change Analysis

A detailed review of selected changes was performed to determine if the pricing from the subcontractors was reasonable for the scope of work. Seventy eight (78) changes were selected with a total value of \$6.9MM. This represents a 14% sampling of quantity and a 38% sampling of total value of changes.

It was not always possible to fully analyze every aspect of each change due to any of the following reasons:

- Effort due to rework – The amount required is not represented on drawings.
- Scope related to the non-standard materials or equipment used to achieve the architectural vision.
- Scope related to achieve certain aspects of the LEED certification.

The analysis utilized historical data that corresponded with the timing of each change, as well as factoring for the Greater Toronto market. The result of the analysis showed that the prices submitted by Maystar averaged 30% higher than the prices from the change order review estimate. The results of the analysis can be found in Appendix F. There are several factors that contribute to the 30% difference.

#### **Labour Rates**

Local labour rates derived from the Statistics Canada Board and the Workplace Safety and Insurance Board ("WSIB") and verified with several of the local unions. It was found that the labour rates quoted from the subcontractors averaged 35% higher than the local prevailing wages. The following table shows a comparison of the total rates including all applicable insurances, taxes, benefits and burdens:

**TABLE 15: Summary of Labour Rate Comparison**

Subcontractor	Hours	Submitted by the Subcontractor		Adjusted per the Audit		% Difference
		Costs	Average \$/Hr	Costs	Average \$/Hr	
Accel	6,221	486,765	78.24	362,123	58.21	34%
Aquanorth	175	13,052	74.80	8,936	51.21	46%
Avenue	121	8,028	66.62	7,562	62.75	6%
Basic	199	12,935	65.00	10,196	51.23	27%
Benson	2,188	188,017	85.95	146,476	66.96	28%
BJ Tiles	72	4,648	65.00	4,101	57.35	13%
Camino	68	4,299	63.23	3,900	57.36	10%
CIC	1	52	52.00	51	51.24	1%
Core	84	7,188	85.57	4,304	51.24	67%
D&D (Pipe All Sub)	775	47,170	60.86	45,792	59.09	3%
G&R (Pipe All Sub)	4,122	351,909	85.38	243,518	59.08	45%
GD Sheet Metal (Pipe All Sub)	3,739	280,439	75.00	198,312	53.04	41%
GP Custom	56	4,760	85.00	2,870	51.25	66%
Harris Rebar	336	22,493	67.00	21,253	63.31	6%
Johnson	4	380	95.00	236	59.10	61%
Kapp	1,270	85,787	67.55	80,231	63.18	7%
Maystar	84	5,511	66.00	4,278	51.24	29%
Muia Steel	16	1,440	90.00	1,056	66.03	36%
Nelmar	3,287	244,737	74.47	170,689	51.94	43%
Pipe All	9,282	752,010	81.02	548,318	59.07	37%
Platinum	181	11,765	65.00	9,283	51.29	27%
Ritz	205	11,615	56.62	10,512	51.24	11%
Sherway	8	280	35.00	492	61.47	-43%
Stefcon	564	40,820	72.38	34,494	61.16	18%
Vixman	18	1,242	69.00	1,032	57.31	20%
<b>Total</b>	<b>33,073</b>	<b>2,587,341</b>	<b>78.23</b>	<b>1,920,017</b>	<b>58.05</b>	<b>35%</b>

The table only represents a sampling of changes where labour was explicitly shown. The table shows \$667K more for labour on just available data which was \$10MM in changes. If this is extrapolated to the total projected changes of \$21MM, there is a potential of over \$1.2MM in increased labour rates for changes on the project. It cannot be assumed that lump sum changes without a labour rate were charged a greater or less value than the prevailing wages.

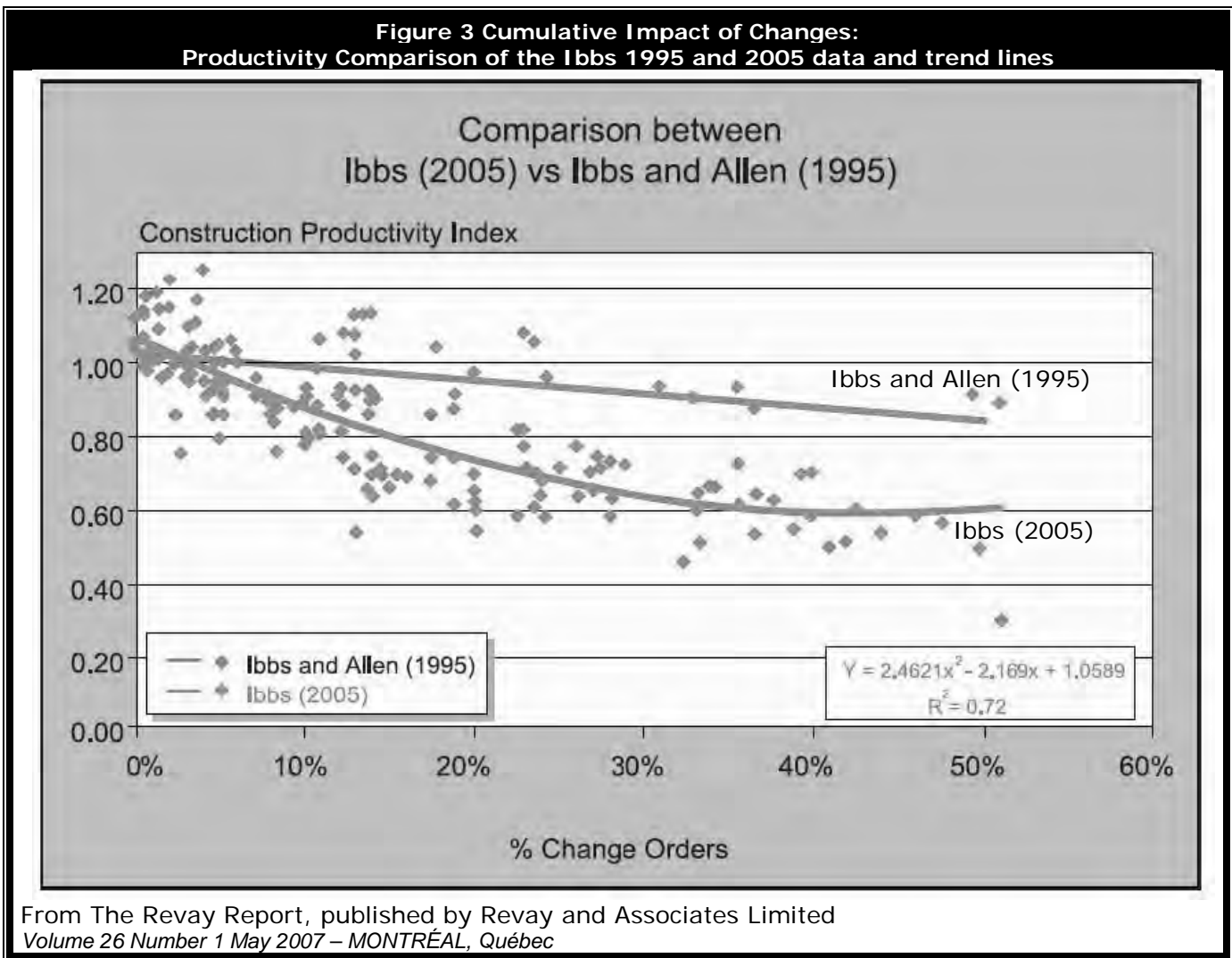
This table is scaled to allow for the appropriate years and uses Toronto specific data. The complete file supporting this table can be found in Appendix G. The data from the Canada Statistics table and the data from the Canada WSIB Rates can be found in Appendix H.

There were no written agreements to the labour rates used by the subcontractors. The Architect indicated that initial change rates were checked against other internal projects and that the rates used by the subcontractors were comparable. They did compare the rates to specific bid sheets and found that the rates have been seen on other projects. There was no formal analysis made to determine how the rates compared with the actual wage data paid to craft labour. Therefore, the basis of the architectural comparison is not known. It may be that the compared rates

included OHP, management or small tools. The City's contract is clear that these items are to be included in the subcontractor's 15% OHP.

**Loss Productivity due to Changes**

There have been studies performed with the conclusion that productivity decreases as a function of the volume of changes on a project. The two common studies are referred to as the Leonard Study; which was further refined by the Ibbs Study. The following chart is a comparison of studies reflecting the cumulative effect of changes on loss productivity.



According to the studies, productivity declines with the percentage of change with respect to the base value of the project. An order of magnitude estimate was performed by applying the Ibbs curve to the changes with respect to time. Using an average of a 60% labour ratio, it was estimated that the value of decreased productivity was approximately \$1MM for \$18MM in changes.

### **Premium for Materials**

Materials also experience an increase in value when executed under a change order. This is due to the ability of the subcontractor to procure material in bulk rather than for a specific isolated change. This premium for this value has been reported to be between 5% and 10% by publications including the Plumbing Heating Cooling Contractors Association Change Order Pricing 2003, 2006 National Plumbing & HVAC Estimator.

### **General Conclusion**

Despite the finding of a 30% difference, the change orders do not appear overvalued by an egregious value given the total amount of changes and when factoring in the labour rate difference.

**Priority Level:** Medium - High

**Recommendation:** There is a low probability of recovering increased costs on the change orders given that the labour rates have been accepted on many of the changes and that the Architect performed a comparison of the rates to other projects. For future projects, however, the City should require a more comprehensive analysis to determine how the labour rates are calculated and what is included. Additionally, the City should consider the expense of performing work as changes when executing a project. In some cases, it may be more cost effective to further validate and check the design while delaying the beginning of construction.

The City may also consider reviewing all of labour rates on the unapproved changes to determine if the labour rates are correct and appropriate. If the City chooses this option, the subcontractors and Maystar should be requested to substantiate difference between the Statistics Canada research and the change order rate. This type of analysis may identify the differences between the original rates as reviewed and approved by Architect and the actual prevailing wage data.

**Response from the City of Vaughan:**

Management agrees with the recommendation. The level of detail in the drawings and the complexity of the design contributed to a large number of COs . Although a peer review of the drawings may have helped reduce the number of change orders. Ultimately a realistic construction budget with contingencies would have aligned expectations from the onset.

Unapproved change orders will be reviewed by the Architect and his consultants to ensure the labor rates are correct and appropriate.

Staff will review available studies that compare deviations of labour costs on similar projects (fixed price–date driven) with varying degrees of complexity to gauge the potential for future labour cost savings. This review will provide the appropriate language to use in future tenders.

**4 Allowance Reconciliation**

The Construction Contract addresses the project’s Cash Allowances. Further, the specifications address the specific allowances and their values. Included in the Contractor’s Base Bid is a Cash Allowance of \$2.838MM.

Direction for use or withdrawal of the Cash Allowances was issued as SI’s from the Architect. Pricing for the allowance was submitted and once approved by the Architect, an SI directing the Contractor to draw from the Allowance was issued.

A breakdown of the Cash Allowances can be found in the Table below.

<b>Description</b>	<b>Allowance Value</b>	<b>Value Used</b>	<b>Remaining Allowance</b>
Civic Square Tree	5,000	-	5,000
Boulder at Chapel Garden	3,000	-	3,000
Clock at Tower	15,000	15,000	-
Millwork	1,500,000	1,322,000	178,000
Council Chamber Audience Seating	100,000	90,398	9,602
Tower Bells	15,000	6,185	8,815
Sound masking System	100,000	100,000	-
Regulatory Signage + Window Cover	600,000	192,578	407,422
Supply of light fixture	500,000	496,147	3,853
<b>TOTALS</b>	<b>2,838,000</b>	<b>2,222,308</b>	<b>615,692</b>

A review of the Cash Allowances was conducted in order to reconcile the costs.

It was determined that the Cash Allowances values do reconcile and accurately reflect the total costs spent to date. The Architect did indicate that the remaining balance for the “Supply of light fixture” of \$3,853 would be spent prior to



completion of the project. Therefore, the total Remaining Allowance value is projected to be \$611,839. The allowances and their expenditures have been tracked by the Architect and the City of the duration of the project. This item has been presented in this section mainly for total project forecast and does not represent any deficiency by the City or Architect.

**Priority Level:** Medium

**Recommendation:** Review of the costs determined that there will be approximately \$611,839 of unused allowances remaining on the project. As per the use of allowances funds, the amount of the unused allowances should be credited as a deductive change order to the City. This will lower the Base Contract amount by the total amount of the unused allowance value.

**Response from the City of Vaughan:**

Management agrees and has been diligently tracking the cash allowances. The cash allowance is not used unless an actual expense has been incurred and the review process for verification and invoicing has taken place. At project close-out, the base contract will be reduced by the unused portion.

## 5 PST/GST/HST

The General Contractor was awarded the contract based on a total stipulated sum of \$84,300,000. Per the tax regulations, this included the cost of the PST of 8% associated with material portion of the subcontractor's estimates.

The Canadian Government implemented a Harmonized Sales Tax (HST) to take effect on July 1, 2010. The HST tax married the two original tax categories that existed when the project began; the Ontario Provincial Sales Tax (PST) and the Federal Goods and Service Tax (GST). The new HST tax rate would subject a 13% tax to all Goods and Services on the project. The City receives a rebate on the HST resulting in an effective HST rate of 1.76% for the project.

However, a credit to the Contract Price is due to the City for the equivalent of the PST included or embedded in the base cost of material to be invoiced in the progress billings issued after the implementation date of July 1, 2010. The credit will be based on the following information gathered from the subcontractors by the General Contractor;

- Percentage split between labour and material for the entire contract including all change orders to date.
- Amount of embedded PST in the cost of all materials delivered to the project site up to and including June 30<sup>th</sup>, 2010.
- Amount of embedded PST on the cost price of all materials to be delivered to the project site after July 1, 2010.

It is important to note that the City is having an independent tax consultant that is assisting in analyzing and computing the actual value of the credit. However, for the purpose of the audit, the overall potential magnitude of the credit was analyzed so that it could be placed into perspective against the contract total.

The following table shows a breakdown of the costs through the implementation of the new HST tax implementation period.

Description	Cost	% of Total
Total Base Contract Costs Invoiced through June 30, 2010	68,900,000	82%
Total Base Contract Costs Remaining To be Billed After July 1, 2010	15,400,000	18%
<b>Base Contract Price</b>	<b>84,300,000</b>	<b>100%</b>

Therefore, there is a balance of approximately \$15.4MM of base scope costs remaining to be billed after the implementation date of the new tax structure. The next table provides calculation of the PST rebate and remaining HST based on the assumption the approximately 40% of the remaining base scope costs are attributable to material.

Description	Cost
Total Base Contract Costs Remaining	15,400,000
Labour (Estimated to be 60% of Remaining Costs)	9,240,000
Material (Estimated to be 40% of Remaining Costs)	6,160,000
PST Tax Credit on Material Portion Only (8%)	(492,800)
Add HST @ 1.76% Effective Rate of both Material and Labour after July 1, 2010	271,040
<b>Net Credit</b>	<b>(221,760)</b>

For the purpose of this analysis a 60/40 split for labour and material was used. Based on some historical data from other construction projects, at this stage in a project, it can be reasonably assumed that they labour costs will be slightly greater than the material costs. Therefore, the potential credit on the material portion of the remaining base scope work can be in the range of \$200,000 to \$300,000.

Additionally, it is important to note that for the purpose of this analysis, no change order that was in progress was evaluated. Only the costs for the base scope were included. Cost for changes that were completely initiated after the implementation date of the new tax structure would not include the portion of the PST as it would be absorbed by HST. Maystar's changes appear to accurately reflect the transition from PST to HST.

**Priority Level:** Medium

**Recommendation:** The City is actively engaged with a consultant that will assist in comprising the actual tax value. Prior to engaging a tax consultant, the City asked Maystar to provide the value of the credit from the subcontractors. The value which was produced by Maystar for the tax credit appeared to be on the lower side of expectations. Working with the third party tax consultant is a proactive approach that will allow the City to better determine the actual value of the credit rather than simply accept the value presented by the Contractor.

**Response from the City of Vaughan:**

Management agrees and was aware of the impact of the implementation of the HST. The process is well underway and is expected to be completed by mid-July. Once the credit has been validated, the appropriate adjustments will be made to the final contract value.

**6 City Budgeted Items Transferred to Maystar**

As a point of clarity, it is important to discuss the costs that were carried in the City's budget for items that were eventually transferred to Maystar to perform. These items help to explain how the increase to Maystar's contract exceeds the increases to the total project by over \$3MM. In addition, it is important to note that these items are not subject to the 6.9% A/E fee. This fact is important in the forecast of the final project cost.

The following table shows a summary of these items.

Description	Budget	Changes Submitted by Maystar		Changes Adjusted per Audit	
		Value	Delta	Value	Delta
A/V	1,700,000	2,818,006	1,118,006	2,665,061	965,061
IT	750,000	1,392,425	642,425	1,383,575	633,575
Security	874,000	983,547	109,547	970,550	96,550
Furniture Install	20,000	17,657	(2,343)	14,583	(5,417)
<b>Total</b>	<b>3,344,000</b>	<b>5,211,636</b>	<b>1,867,636</b>	<b>5,033,769</b>	<b>1,689,769</b>

The data shown on this table indicates that the budgets for these items have been exceeded. Additionally, it shows the value that will be deducted from the total construction value in calculating KPMB's fee for the project forecast.

**Priority Level:** Medium

**Recommendation:** The values of these items should be reviewed by KPMB for proper calculation of their final fee.

**Response from the City of Vaughan:**

Management agrees, and as the data indicates, the value will be adjusted from the total construction value when calculating KPMB's final fee. At project close-out, it was anticipated that a detail review and reconciliation would occur to determine the final value of the Architect's fee.

**7 Architectural Fees related to total project costs**

The City has acknowledged that portions of the design documents were either incomplete or deficient. The Architect has referred to these items as "Coordination Issues". Costs associated with these items are typically thought of as "Errors and Omissions" or "E/O" costs. Architects carry professional liability insurance for the purposes of excessive E/O issues.

An "Error" is when a portion of the design is incorrect and there is a cost associated with correcting the issue. The cost is primarily due to rework or the premium cost to expedite work and materials. "Omissions" are items where a component of the design was not complete. Omissions often include items that the owner would have paid for if the design had been complete. The base costs of these items are not considered as part of an E/O claim since the owner would have incurred these costs anyway. Only the premium portion of the additional cost to remedy the omission is considered as applicable to a claim.

During meetings with the City's Facilities group, it was agreed that this project had a number of issues that were a mix of design deficiencies, errors and omissions. These were items associated with the design not being complete or fully checked prior to issuing the tender documents. The contractors continued to increase costs to reflect the continued refinement of the design. It was agreed that the term "Design Deficiency" would be used. If a claim were pursued, all of the design deficiencies would have to be categorized into either error or omission categories.

The City's Facilities group indicated that they approached the Architect about the reasonability of paying a fee on design deficiencies, errors and omissions. The Architect informally agreed that they would not charge a fee on any of the changes due to what they are calling Coordination Issues. At the time of the site visit, this value had not yet been quantified by either party. The following table provides a summary of these values based on the submitted changes to date. The first column shows the values submitted by Maystar, and the second column represents the adjusted change values per this audit. The assignment to each category is shown in Appendix A.

<b>Description</b>	<b>Maystar Submitted Changes</b>	<b>Audit Adjusted Changes</b>
ERROR	2,749,166	2,409,982
OMISSION	415,184	400,368
DESIGN DEFICIENCY	3,778,944	3,527,066
<b>Total</b>	<b>6,943,293</b>	<b>6,337,416</b>
A/E Fee at 6.9%	479,087	437,282

This table shows that the total A/E fee due to the design issues would be \$437,282 after the adjustments to changes from this audit are made.

**Priority Level:** High

**Recommendation:** It is recommended that the full list of changes related to design issues be reviewed in detail between the City's Facilities group and KPMB. If KPMB agrees to the magnitude of these costs as found in the audit and if KPMB formally agrees to the reduction in fee, this could be a savings in excess of \$400K for the total project.

**Response from the City of Vaughan:**

Management agrees, and as the data indicates, the value will be adjusted from the total construction value when calculating KPMB's final fee. At project close-out, it was anticipated that a detail review and reconciliation would occur to determine the final value of the Architect's fee.

**8 Delay Claim**

The Architect issued a change order #56 on October 24, 2008 related to the revision of the Substantial Completion Date to January 1, 2010. Maystar then requested an extension to March 1, 2010. As a response to this request and under a gesture of good will, the City allowed an adjustment to the Substantial Completion Date of March 1, 2010. This allowed the Contractor an additional 58 days to achieve Substantial Completion. CO # 56 agrees to the extended substantial completion date but is noted as having an unchanged Contract Price. Further, backup documentation of this change, including a letter from the Architect states that

*"As the City has seen fit to extent the Contract Time to accommodate Maystar's requirements as a gesture of good will, the City is not liable for any of the costs associated with the extended duration or the changes in the construction environment".*

Despite this language included with the change order, there has been indication from the Contractor that there are, in fact, costs associated with this requested extension. Although the cost impact of this change has not been reviewed by the

audit, the Contractor has indicated that there is a cost component that has been submitted to the City and the Architect for their review. There have been three submissions by the Contractor for the costs associated with the original 80 day requested extension. At the time of the audit, all the submissions by the Contractor were considered inadequate and were rejected by the Architect and the City. While at the time of the audit, there is still no resolve of the value of this original change order, it is understood that there will ultimately be a cost impact to the project of some value that will occur.

Discussion with the Architect indicated that this Change Order is broken into two parts. The original delay request, which extends the substantial completion date by 80 days to January 1, 2010, gives the Contractor the right for compensation if they can substantiate additional costs incurred. The additional days, which are given to the Contractor as a gesture of good will, are not considered compensable.

The project's Substantial Completion date was further delayed as a result of various factors, including additional scope and project changes. The Contractor indicated that there is an additional delay claim for over 12 months. Part of this premise is that as of June 2011, there is still an additional \$1.5MM of base scope work that is yet to be completed. The Contractor indicated that this delay is a result of all of the changes and drawing deficiencies. There is another change that could be issued as a result of this delay. At the time of the audit, however, the Contractor had not issued this claim and was unwilling to share any data about the magnitude of this change. The potential value of this claim is not captured in any of the project budgets but will most likely be submitted at a value in the millions.

It has been noted during our review that there were multiple issues with the installation of the curtain wall and the curtain wall subcontractor. Maystar eventually released the curtain wall subcontractor from services however, that did not occur until 2011, well after the majority of the curtain wall installation was completed. The curtain wall subcontractor and subsequent mismanagement of delivering the curtain wall installation within the original project schedule can be attributed to a portion of the delays of construction during early stages of the project. It is not know at this time if Maystar will consider curtain wall delays by the subcontractor when calculating the next delay claim. The Architect has indicated that they do not believe that the quality of the design documents does justify the extension.

**Priority Level:** High

**Recommendation:** It is recommended that the City and the Architect request that the Contractor submit all delay claims as soon as possible so that any potential cost impacts can be fully evaluated. During the course of the audit, there were multiple values that were discussed with respect to the magnitude of the claim. However, there was no documentation that was presented for the audit to determine or evaluate the magnitude or validity of the claim. Therefore, it is imperative that this information be submitted and reviewed by all parties in a timely manner as this value will potentially impact the final value of the project.

It should be noted that the forecasts in this report are not adjusted for the potential costs of delay claims.

**Response from the City of Vaughan:**

Management agrees with this recommendation. Any documentation put forward by the general contractor on delays will be reviewed to ensure that such claims are legitimate and the cost substantiated with proper documentation. Currently no documentation has been submitted by the general contractor to be reviewed or dealt with on this matter. Staff and the Architect will continue to pursue this matter with the contractor. It is the opinion of the Architect that no delays were attributed to the City or its consultants.

**9 Pending Changes**

At the time of the audit, there were 246 changes that had been identified by other change notification documents as shown on the following table:

Type	Un-Submitted	Value	Number Changes without Pricing
CCO	51	1,625,416	26
SI	49	1,093,178	-
CD	48	484,485	-
MC	98	1,351,954	4
<b>Total</b>	<b>246</b>	<b>4,555,033</b>	<b>30</b>

As shown on the table, 30 changes did not have any pricing. Maystar committed to having these changes submitted by Mid June 2011. However, at the time of this report, a number of the changes were still not submitted. Some of these causes for changes without pricing were due to direction or quotes required from KPMB while others were due to Maystar waiting for information from their subcontractors. The total value of the 30 changes is not known, but the collective project team believed that they should be under \$100K.

**Priority Level:** High

**Recommendation:** It is important for the City to understand all of the potential cost implications of outstanding change orders. Given the status of the project, all of the changes should have enough information to price and submit to the City.



**Response from the City of Vaughan:**

Management agrees and is aware of the outstanding COs. The Architect is in communication with the general contractor regarding outstanding quotes and associated paper work. Staff will be stressing to the Contractor and Architect the importance of finalizing the outstanding COs as soon as possible.

**10 Project Forecast**

Next table provides forecasting data at the time of the audit. Each of the adjustments made in the audit column have been discussed in this section.

<b>TABLE 22: Comparison of Total Project Forecast (CAD)</b>				
<b>Description</b>	<b>Based on Facilities Data</b>	<b>Based on Finance Data<sup>D</sup></b>	<b>Adjusted Per the Audit</b>	<b>Audit Source</b>
Original Budget	84,300,000	84,300,000	84,300,000	From the Contract
Audit Adjusted Changes	18,156,815	18,156,815	17,095,212	From the Audit Adjusted Changes
Potential Changes <sup>A</sup>	4,179,203	2,328,892	4,555,033	From the Forecasted Remaining changes in this report
Returned Allowances			(611,839)	From the Allowance reconciliation in this report
<b>Total Forecasted Construction</b>	<b>106,636,018</b>	<b>104,785,707</b>	<b>105,338,406</b>	
A/E Fee	6,771,444	7,544,762	6,688,011 <sup>B</sup>	See NOTE B
Other Consultant	2,082,218	1,240,979	1,240,979	From Finance
Design Competition	155,767	485,570	485,570	From Finance
Furniture	2,955,330	3,625,646	3,625,646	From Finance
Misc	460,331	1,346,462	1,346,462	From Finance
<b>Total</b>	<b>119,061,109</b>	<b>119,029,126</b>	<b>118,725,073</b>	
Admin Fee	3,571,833	3,570,874	3,561,752	3%
<b>Total w/ Admin Fee</b>	<b>122,632,942</b>	<b>122,600,000</b>	<b>122,286,825<sup>C</sup></b>	
<b>Estimated Tax Adjustment</b>				
Credit for PST			(492,800)	
Remaining HST			271,040	
A/E Fee Applied to Adjustment			(15,301)	
<b>Total w/ Admin Fee</b>			<b>122,049,764</b>	

*NOTE A: These potential changes have not been fully reviewed by the Architect and the City. There is a potential that these costs could be reduced after the Architects and their consultants perform their reviews.*

*NOTE B: The following table provides detail regarding how the Architect's fee was determined for the audit calculations.*

<b>TABLE 23: Architect Fee Calculation (CAD)</b>	
<b>Description</b>	<b>Value</b>
Base	84,300,000
Audit Adjusted Changes	17,095,212
Potential Changes	4,555,033
<b>Base Construction</b>	<b>105,338,406</b>
Less design deficiencies	(437,282)
Less Owner Carried	(5,033,769)
<b>Revised A/E Base</b>	<b>99,867,355</b>
Fee	6,890,848
Less Design Assist	(202,837)
<b>Fee @ 6.9%</b>	<b>6,688,011</b>

NOTE C: This total does not include any pending delay claims by Maystar as these values have not been officially submitted at the time of this report.

NOTE D: Finance and Facilities each have their own tracking system for project costs. During the audit, it was found that the Facilities group did not have all of the values that the Finance group had. The two parties reconciled their values and it was found that the City had \$182,443.19 mis-assigned to this project. Although it is a savings to the project forecast, it is still a cost that will be incurred by the City in another allocation.

**Priority Level:** High

**Recommendation:** It is recommended that the City of Vaughan take every reasonable effort to come to an agreement on the total forecast with the Architect and Maystar. A timeline to complete this reconciliation should be mutually established by all parties. It would be in the City's best interest to resolve all items on the current deficiency log and close this project in the earliest time frame that is realistic and reasonable. The Facilities group has indicated that they will not be accepting any new internal change requests for this project.

In reconciling the forecast with the Architectural fee and General Contractor costs, the City should give all parties the opportunity to respond with any applicable documents which may defend their position. Although this audit was conducted to be diligent and thorough, it is understood that there may be documents which exist that explain why a finding may be challenged. It is recommended that the City imposes a finite amount of time for each party to respond.

**Response from the City of Vaughan:**

Management agrees with the next steps as stated in the recommendation. Staff will be meeting with the Architect and general contractor at the earliest opportunity prior to close-out to reconcile the architectural fee and general contractor costs.

## VI. Observations for Processes and Procedures

The following sections describe all of the findings related to the City Process and Procedures:

### 1 Bid Analysis

The high level of changes that are associated with the project present the question of how accurate the original bid could have been based on the quality of the design documents. Of the five contractors that were prequalified, two contractors informed the city that they would not be submitting pricing. Therefore, there were only three bids that were submitted to the City for the project. The bids that were submitted at closing time were found to be in compliance with the tender submission requirements with respect to the bid tender process.

The following table shows the three bids that were evaluated

<b>Contractor</b>	<b>Bid Tender in \$MM</b>	<b>Total Delta From Award in \$MM</b>	<b>Total Delta from Award in %</b>
Maystar	84.3	Contract Award	
Vanbots	90	5.7	7%
Eastern	108	18	21%

CM2R issued an estimate in November 2006 based on the construction documents for a value of \$91MM. KPMB further analyzed and refined this value to be \$86.3MM.

The low bid estimate, provided by Maystar was found to be in line with the estimate of CM2R and the review performed by the Architect. Based on these results the Architect provided a recommendation to the City that Maystar be awarded the bid. The large spread between the low bid and the high bid (21%) may have provided a level of indication that the proposals contained some amount of errors/omission or required clarification. There was no indication that the estimates were evaluated for the amount of assumptions that may have been made by the contractors.

One tactic for reviewing the quality of the estimates is known as "bid leveling". Bid leveling is the practice of verifying that the bids or estimates received accurately reflect the scope of service required. On the simplest level, bid leveling asks three questions when evaluating a bid for completeness.

1. Were all requested items provided?
2. Did the bidder meet all of the qualifications?
3. Is the price really based on the scope of work? In other words, did they miss something?

Although this is a simplified form of bid leveling, there are much more complex systems to evaluate whether the bids provide a fair and accurate comparison. As

one example, certain bid leveling techniques may have been able to reveal if the other bids had determining factors that elevated their pricing, such as additional contingencies or allowances that considered deficiencies or lack of clarity in the drawings at the time of the tender.

By not evaluating the bids against any other metrics other than a comparison to the independent estimate, the City may not have been provided with the most accurate estimate to the construction project. Potential flaws in the bid drawings and specification may have been discovered by requiring additional information from the bidding contractors regarding the pricing and clarifications.

**Priority Level:** Medium

**Recommendation:** While the City did employ a proactive approach in recruiting CM2R to provide project estimates, the City should use some standards for evaluating bids when they are received. While there is no industry accepted value to use, a range between estimates of 21% may be high. For future projects of significant value, the City should evaluate the range and then determine what questions to ask when the range is exceeded.

Although three bids do provide some level of judgment for the accuracy of the estimates, it is on the lower side of what should be considered acceptable for a project of this size. Although it is understood that there may have been specific economical situations that may have prevented other firms from bidding the project, the lower number of bids and the spread in the overall pricing should have resulted in a more in depth evaluation of the pricing.

While the prequalification process may have been efficient in eliminating submissions from contractors that were not qualified, which would have further skewed the data, the fact remains that there was a large spread between the bids received. The conclusions and recommendations DO NOT suggest that Maystar was not the lowest qualified and responsive bidder. Rather, they reflect that additional analysis may have led to the conclusion the initial budget may have been undervalued.

**Response from the City of Vaughan:**

Management agrees. Staff will research practices regarding bid review evaluations to establish guidelines to incorporate into the City's documented bid evaluation processes. Currently, purchasing staff identify and discuss bid results that reflect a broad range of pricing with their internal clients, but this practice is not formalized into the bid evaluation process.

## 2 Contingency Factoring

During early stages of the project planning, the budgetary values for this project did not contain a contingency value. Instead, the City used a total "Soft Cost" estimate of 25% of the construction value. The 25% was developed by an architecture consultant engaged by the city. As the project scope became more

defined, the construction budget became further refined. However, the City did not further develop the details for the soft costs. The Facilities group believed that they had a 3% contingency built into their soft costs. However, there was also a 3% administration fee that was not considered. Therefore, the perceived contingency did not truly exist as part of the \$107MM budget.

Even under the assumption that the 3% was to be allocated to contingency, earlier sections of this report address the potential risk to this project. For a project of this size, type and execution method, 3% was most likely not large enough to encompass the potential stages of project planning process.

Additionally, conversations with the Architect indicated that at the time of the Bid Tender the drawings were at a level of 95% completion. No documentation was provided to the audit to show a risk or contingency analysis. There was also not any indication that the progress level of the drawings was validated at 95%.

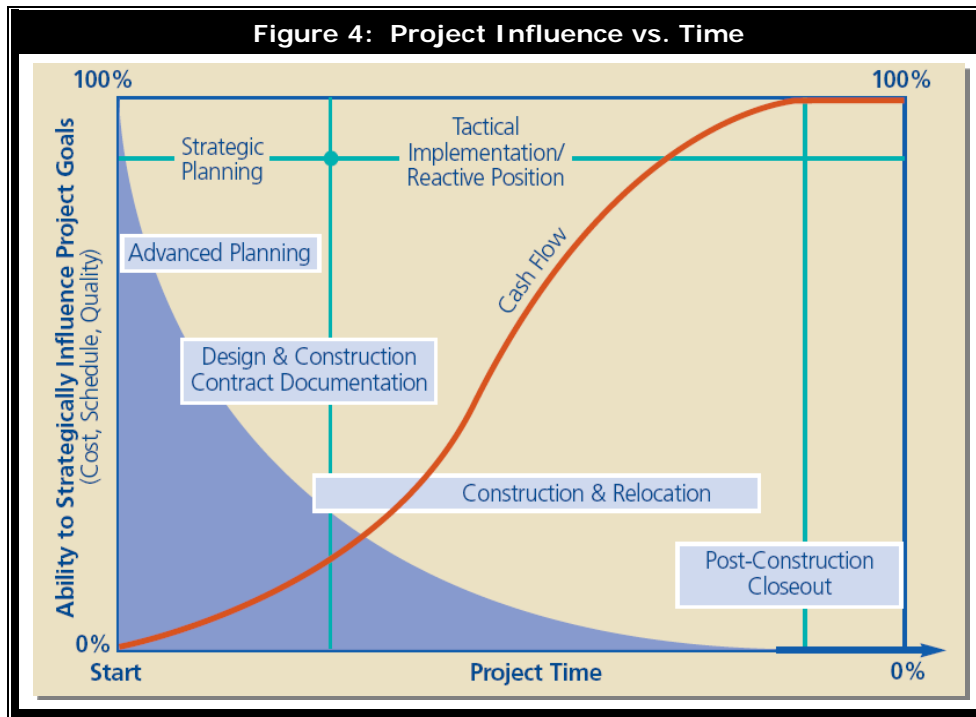
**Priority Level:** Medium

**Recommendations:** There are two major factors that can influence the project execution process that should be considered when evaluating a project and types of exposure that create a potential for additional cost exposure.

- 1) It is likely that the needs and requirements of the project will evolve from the base inception up to (and sometimes beyond) the time that the physical construction begins.
- 2) It is improbable that every design requirement, condition and potential risk can be distinctly identified and planned for.

In the case of this particular project, the design of the building was more aggressive in comparison to other projects that the City had performed in the past, particularly with the inclusion of the desire to achieve LEED Gold certification.

It is known that an owner has the ability to influence a project during the earlier stages of the project design and inception. The potential cost impact of these two items diminishes as the project progresses through design and into construction. This concept is often easier to understand as shown in the following illustration.



The following table shows various project stages and some factors for contingency levels that may be used. Note that the total is a multiplication of the Design Contingency and the Owners Contingency as opposed to an addition.

**TABLE 25: Proposed Contingency Values during various Project Stages**

Project Phase	Design Contingency	Owners Contingency	Total
Original Project Estimate	10% to 17%	10%	21% to 29%
Schematic Design	12%	7%	20%
Design Development	10%	5%	16%
Issued for Bid	2.5% to 4.5%	5%	7.6% to 9.7%
Issued for Construction	2.5%	0%	2.5%

Also, the table above is meant to only be applied directly to construction and assume a minimum of 90% drawings. In addition to the contingency put on the construction estimate, many owners will add additional project wide contingencies as follows:

- Escalation factors for projects that have potential multi-year construction durations to absorb fluctuations and inflation in the economy.
- Total project contingency of at least 5% to the total value of the entire project. In organizational cultures where change is likely, 10% or 15% may be appropriate.

Owners often want to cut contingency with the intent of having a lean project. This action is short sighted as nearly every project experiences change.

**Response from the City of Vaughan:**

Management agrees with the recommendation. Vaughan will continue to investigate ways to better phase projects from concept to strategic planning and implementation. In addition, staff will investigate better methods to manage risks through identification of early triggers so that issues can be escalated sooner. While proper planning and risk identification can reduce change, "it is improbable that every design requirement and potential for risk be distinctly identified and planned for" in a project.

Contingencies are necessary and required as nearly every project experiences change for a variety of reasons as identified in this report. Staff will implement procedures/tools to determine realistic contingencies when developing project budget estimates.

**3 Regular reporting of the project**

During the audit, the process of City Hall project reporting was reviewed. At the project level, there were bi-weekly site meetings, which would review and document any current or outstanding issues on the project. Present at those site meeting were mainly staff from the Contractor, Subcontractors, the Architect, the City's Architectural consultant and in at least one City representative from the Facilities group. The site meetings documented the chronology of the project issues and concerns. In addition, there were bi-weekly meetings held between the Owner, Architect and the project's primary consultants as well as bi-weekly scheduling meetings.

Beyond these meetings and COPs, no documents could be found that show the current status of the project along with any forecasts or analysis of the cost and/or schedule performance. Additionally, there did not appear to be any type of quantitative reporting made from the Facilities group to other groups in the City. To the understanding of the audit, there are not any standards or process that the City has established regarding required reporting from the consultants or general contractors. Nor are there any standard reporting requirements for the Facilities group to the other City Offices.

**Priority Level:** Medium

**Recommendations:** Deficient reporting requirements are common among organizations that do not perform significant construction on a regular basis. Many organizations have great success with projects without having stringent guidelines. It is not until projects have significant deviations that many organizations start to consider the value of structure reporting and analysis.

On larger projects the City should develop some level of monthly reporting that provides a highlighted view of where the project is and where it is headed. Such items that are important on these types of monthly reports are a snapshot such as

- Cashflow Summary
- Changes
- Project cost trending
- Summary and Critical Path Schedule updates
- Project Metrics (Earned Value, Schedule Performance, Cost Performance, etc.)
- Upcoming issues.

This level of reporting that should be required may come from a compilation of information from the Contractor and Architect. Groups such as AACEI, PMI and CFMA have published numerous articles about reporting techniques. Alternatively, there are many “off the shelf” software packages that provide reporting standards.

**Response from the City of Vaughan:**

Management agrees with the recommendation that a project of this scope requires additional reporting. Staff will investigate using Project Management templates and tools available for construction projects. In addition, staff will investigate utilizing specialty consultants to provide trending forecasts for larger projects.

#### **4 Cash Flow**

Projecting monthly cash flow helps allocate the correct funds to pay project costs by accounts payable. Projecting and reporting on a project’s cash flow can assist in project forecast, as well as provide transparency to how and when the funds are being spent. Many construction professionals have found cash flow to be a useful tool for validation of forecasting. Additionally, understanding a project’s cash flow can assist in the decision making process for some Owner desired change orders. As an example, by reporting and forecasting cash flow, the City may have been able to determine if the project would have been over budgeted. Therefore, assisting in the decision making process of implementing changes that may have a major cost impact to the project. One example of this could be the decision to move forward with the build-out of the Day Care may have been evaluated differently.

Most construction professionals who are not familiar with this method will typically not understand the potential benefit. The risks associated with not performing this task may be minimally considered on the project side. However, the risks from the accounting and funding side are either not having funds in the proper location to



making timely payments or drawing too far down on available funds that could be allocated elsewhere.

**Priority Level:** Low

**Recommendation:**

It is recommended that the City begin to evaluate and understand the process of cash flow analysis. This tactic becomes extremely important for larger capital projects (>\$10MM). The Cash Flow analysis should be broken down to the deepest level of granularity possible and updated on a monthly basis over the life of the project. In some cases, weekly updates may be beneficial, although it must be understood that they may take significantly more time to keep up to date and may not provide any greater benefit than monthly reviews. However, the City may have to review their additional levels of reporting on a project by project basis.

By breaking out individual purchase orders or specific allowances, this method can be a good tool to validate the confidence in a given forecast. It is important that cash flow costs are projected when they will hit the accounting system and not when the physical checks are released.

Appendix I shows an example of cash flow projections broken down by Work Breakdown Structure ("WBS"). Some owner project managers will push a portion of the cash flow responsibility down to their GCs. Ultimately, Accounts Payable is only interested in the bottom line. The detail, however, is the key to accurately predicting the values.

**Response from the City of Vaughan:**

Management agrees with this recommendation. It should be noted that in the municipal sector full project funding (and resulting cash flow) is typically committed at the project approval stage. Management agrees, however, that a cash flow analysis comparing projected to actual cash flows prepared by a GC or project cost consultant, who has full access to contemplated change orders for a project, would be a useful tool in forecasting the final project cost.

**5 Change orders signing and COP**

During the audit, the change order approval process was reviewed to determine how change orders were initiated, implemented and ultimately approved. The change order process as it has been explained during the audit is as follows.

- An SI, CCO, or CD is initiated.
- Depending on the Change Type, the Contractor will submit pricing for the change.
- The cost of the change is reviewed by the Architect and or the appropriate Consultant.

- Once the pricing is reviewed, a letter is issued from the Architect or the consultant suggesting that either the pricing is appropriate and that the change should be approved or that the Contractor should further refine their pricing.
- Once the final change order pricing is found to be appropriate by the Architect or the consultants, the Change is reviewed with the City's internal staff. The Facilities group will agree that the change should be implemented, as per the site meeting minutes.
- The Architect then signs the change order.
- The City's internal staff signs the change order.
- The Commissioner of Community Services signs the change order.
- The Contractor signs the change order and is therefore instructed to commence work on the change.

At time of the audit site visit, there were approximately 262 changes that were officially submitted and included all the appropriate signatures from all parties. The change order log however showed that there were another 281 changes that were already completed. The Architect indicated that as a result of a lagging in the paper work, those changes were still awaiting signature, however the actual costs and services of the changes had already been completed in most cases. During the audit, the remaining 281 change orders were signed by the architect. Most of those changes were already billed for by the Contractor under COP.

The Contractor indicated that on most of the changes that had yet to receive all of the final signatures, they were given the verbal approval to complete the work and include the costs as part of the COP.

Maystar would include COs on the COPs as soon as they were issued from the Architect regardless of if the Architect or City reviewed and/or approved them. The CO may not have been billed for on the first COP that it was shown on. The City indicated that COs would be billed once the once the work is certified as being completed by the Architect. The COP, however would be signed with the unapproved CO values shown. Additionally, a large number of COs were billed and paid for without the formal approval of the Architect or the City. At the time of this report, Maystar had billed for 281 changes valued at over \$6MM that had not been formally approved by the City.

During a discussion, Maystar had indicated that by the time the CO was on the COP, all parties had reviewed it and it was a "matter of paperwork". In addition, Maystar indicated that they believed that both the signature on the original COP with the CO and the COP that billed for CO were indications that the CO was approved even without the City's signature. This is a deficiency in City's system of change order management system for this project. It is in further conflict with the intent and spirit of the construction contract that changes should not be

executed nor billed for until formally approved by the City as well as the City's written procedure on change order approval.

**Priority Level:** High

**Recommendation:** The Change Order process in place requires the signature of the Architect, two City Facilities members and the Contractor. This process should be followed and therefore, no change orders that do not include all the proper signatures should be included as part of the COP

Both the Facilities group and the Architect indicated that they were overwhelmed with the volume of changes and therefore were having trouble keeping up. This scenario should be a flag that there may be major design issues or resource constraints on the project. In either case, it is prudent to evaluate the conditions that are hindering the ability to follow the change order process.

**Response from the City of Vaughan:**

Management agrees with the recommendation. The Change Order process is well documented and any deviation from the formal process was due to Architect resources being overwhelmed by the number of changes and the extensive payment review process. The work progressed in an effort to keep the project moving and the general contractor and his subs had to be paid. All work was validated and certified prior to invoices being paid. Staff also agrees that projects of this size and magnitude, adding specific resources in the contract to manage Change Orders would be beneficial.

## 6 Institutional Memory

Based on the interview responses, there is a collective agreement that the City does not currently have a formal process and procedure system or manual in place for executing capital projects. Although the foundation of processes and procedures for executing projects was found to have a solid basis, it is largely dependent on the City's personnel. Currently, the City's staff that is overseeing project construction has many years of experience and work well with the other parties.

There are internal processes in place but they are not part of a global procedures plan. As a result, they are based on the individual who is implementing them. It should be noted that certain aspects of the Facilities group's change review process is considered "best in class" process for any organization. This included the level of detail that the scope of each change was reviewed as well as the methods used to track how the changes affected the actual drawings.

Institutional Knowledge may be defined as information gained by organizations translating historical data into useful knowledge and wisdom. Memory depends upon the preservation of data and also the analytical skills necessary for its effective use within the organization. The system used to track the scope of

changes is a good example of institutional knowledge that should be preserved for future project team members.

If there are no formal processes and procedures in place, institutional memory can be lost. This can result in inefficiencies in the overall oversight of capital projects. While, it is true that the City may not be involved in another large Capital Project for quite some time, there are many advantages to implementing a system that can capture the institutional memory. Also, the project plan, processes and procedures can be translated to smaller projects across the City's entire construction program.

**Priority Level:** Medium

**Recommendations:** The City should consider capturing both the findings from this audit as well as the positive proactive processes used as part of a lessons learned document. These can be used for future projects and shared with other divisions of the City that engages in construction activities. In addition, this data can be considered for potential enhancements to the City's process and procedure documents. For projects of this size, the City should also address policies and approval limitations.

**Response from the City of Vaughan:**

Management agrees with the recommendation.

# **APPENDIX A**

## **Change Order Log w/ Root Change Reason**

APPENDIX A

CO	CO Date	Description	CCO/CD No.	Cons.	JO Disc	GC #	COP	AV-Sec-It	TOTAL	A/E Type	City Type	Audit Type	Issue Date	Date Appr'd by KPMB	Date Appr'd by City	Date Signed by Maystar	Quote Included?	Quote appr by A/E?	MCC Value	SI Value	CCO Value	CD value	MM Dates	RFI Date	ID MONTH	QUOTE MONTH
1	7/27/2007	Removal and Disposal of Unsuitable Fill.	CD 002		C	MC002/004			618,671		UFC	UFC	27-Jul-07	7/27/07	8/9/2007	no date	Y		4/24/07			4/2/07			4-2007	5-2007
2	3/6/2008	Reinforcement at Elev. 3 & Stair No. 7	CCO 001	S	S				12,292	ERR/OMM	DDF	DDF	6-Mar-08	no date	no date	no date	Y	Y			4/13/07	6/19/08			4-2007	5-2007
3	3/6/2008	Clarif. to Concrete Planter @ south-west	CCO 005	S	S				33,089	ERR/OMM	DDF	DDF	6-Mar-08	no date	no date	no date	Y	Y			4/16/07	5/4/07			4-2007	12-2222
4	3/6/2008	Deletion of Slab Cambers	CCO 006	S	S				11,922	ERR/OMM	DDF	DDF	6-Mar-08	no date	no date	no date	Y	Y			4/16/07				4-2007	5-2007
5	3/6/2008	Deletion of Slab Opening at Stair No. 8	CCO 008	S	S				10,618	ERR/OMM	ERR	ERR	6-Mar-08	no date	no date	no date	Y	Y		9/18/07	9/18/07	10/17/10			9-2007	1-2115
6	3/6/2008	Structural Coordination at Loading Dock	CCO	S	S				1,167	ERR/OMM/DDF	DDF	DDF	6-Mar-08	no date	no date	no date	Y	Y		6/28/07	6/28/07	10/17/10			6-2007	7-2007
7	3/6/2008	Structural coord. at Level 300 Bridge	CCO 011	S	S				2,148	ERR/OMM	DDF	DDF	6-Mar-08	no date	no date	no date	Y	Y			6/26/07				6-2007	5-2115
8	3/6/2008	Waterproofing at Elevator Shafts	CCO 013	A	A				5,827	UFC	DDF	DDF	6-Mar-08	no date	no date	no date	Y	Y			6/29/07				6-2007	1-2008
9	3/6/2008	Revision to Weeping Tile System	CCO14R1	M	C				647,768	UFC	UFC/DDF	UFC	6-Mar-08	no date	no date	no date	Y	N			8/30/07	7/25/10			8-2007	3-2008
10	3/6/2008	Revisions to Underslab Plumbing System	CCO 14R1	M	C				295,629	UFCERR/OMM/	UFC	UFC	6-Mar-08	no date	no date	no date	Y	Y			8/30/07	7/25/10			8-2007	12-2007
11	3/6/2008	Deletion of Vapour Barrier @ Parking Slab	CCO 017	A	A				(14,639)	ERR/OMM	OPS	OPS	6-Mar-08	no date	no date	no date	Y	Y			9/26/07				9-2007	1-2008
12	3/6/2008	Revision to the Storm Line at Grid C	CCO 023	M	C				38,041	UFC	UFC	UFC	6-Mar-08	no date	no date	no date	Y	Y			10/25/07				10-2007	2-2008
13	3/6/2008	Deletion of Sheet Metal Plenum Wall	CCO 031	M	M				(3,185)	ERR/OMM/DDF	OPS	OPS	6-Mar-08	no date	no date	no date	Y	Y			12/9/07				12-2007	1-2008
14	6/4/2008	Data / Telecom Tender	SI 098	IT	IT		IT		742,743	OPS/COM	OPS	OPS	4-Jun-08	6/4/08	6/5/2008	no date	Y	Y		3/26/08					3-2008	3-2008
15	6/4/2008	Fan Coil FC-0-24 Location	SI 031	M	M				3,916	ERR/OMM	ERR	ERR	4-Jun-08	6/4/08	6/5/2008	no date	Y	Y			8/17/07				8-2007	4-2008
16	6/4/2008	Fan Coil FC-0-25 Location	SI 042	M	M				5,808	ERR/OMM	ERR	ERR	4-Jun-08	6/4/08	6/6/2008	no date	Y	Y			9/10/07				9-2007	4-2008
17	6/4/2008	Drain Locations	SI 087	M	M				2,974	ERR/OMM/DDF	ERR	ERR	4-Jun-08	6/4/08	6/6/2008	no date	Y	Y			1/22/08		12/17/07		12-2007	4-2008
18	6/4/2008	Steel at Vestibule 106	CCO 016	S	S				2,804	ERR/OMM/DDFCC	DDF	DDF	4-Jun-08	6/4/08	6/6/2008	no date	Y	Y			9/4/07				9-2007	10-2007
19	6/4/2008	Janitor Sink & Flr Drain conn. at Jan 098	CCO 018	M	M				3,191	ERR/OMM	ERR/DDF	DDF	4-Jun-08	6/4/08	6/6/2008	no date	Y	Y			9/26/07				9-2007	4-2008
20	6/4/2008	Hot Water Piping Requirements	CCO 019	M	M				7,965	ERR/OMM	ERR/DDF	DDF	4-Jun-08	6/4/08	6/6/2008	no date	Y	Y			9/26/07				9-2007	4-2008
21	6/4/2008	Venting for DHWT-3	CCO 020	M	M				6,764	ERR/OMM	ERR/DDF	DDF	4-Jun-08	6/4/08	6/6/2008	no date	Y	Y			10/21/07				10-2007	4-2008
22	6/4/2008	Elevator Machine Room Requirements	CCO 022	E	E				-	SCD	SCD	SCD	4-Jun-08	6/4/08	6/6/2008	no date					10/21/07				10-2007	1-1900
23	6/4/2008	Mech. Rm Drains at Rooms 299, 399, 499	CCO 038	M	M				4,602	ERR/OMM/DDF	ERR/DDF	DDF	4-Jun-08	6/4/08	6/6/2008	no date	Y	Y			1/8/08				1-2008	2-2008
24	6/4/2008	Conduit at Telecom Rooms 094 and 194	CCO 043	E	E				12,285	ERR/OMM/DDF	ERR/DDF	DDF	4-Jun-08	6/4/08	6/6/2008	no date	Y	Y			2/18/08				2-2008	4-2008
25	7/15/2008	Structural Coord. - Slab Edge-200 Level	CCO 003	S	S				2,863	ERR/OMM/DDF	ERR/DDF	DDF	15-Jul-08	7/15/08	7/17/2008	no date	Y	Y			4/13/07				4-2007	11-2007
26	7/15/2008	Structural Coord. - Slab Edge-200 Level	CCO 003-R1	S	S				1,334	ERR/OMM/DDF	ERR/DDF	DDF	15-Jul-08	7/15/08	7/17/2008	no date	Y	Y			1/22/08				1-2008	2-2008
27	7/15/2008	Corridor Link at 000-North - to Phase-02	CCO 007	S,A	A				39,338	ERR/OMMUFC	ERR	ERR	15-Jul-08	7/15/08	no date	no date	Y	Y			5/2/07				5-2007	12-2438
28	7/15/2008	South-east Building Column Transfer	CCO 044-R1	S	S				6,981	ERR/OMM/DDF	ERR	ERR	15-Jul-08	7/15/08	7/17/2008	no date	Y	Y			3/20/08				3-2008	5-2116
29	7/15/2008	Electrical Room Transfer Air Ducts	CCO 029	M	M				(1,391)	ERR/OMM/DDF	OPS	OPS	15-Jul-08	7/15/08	7/17/2008	no date	Y	Y			11/27/07				11-2007	5-2008
30	7/15/2008	Revisions to DCW Riser at South	CCO 036	M	M				8,575	ERR/OMM/DDF	ERR	ERR	15-Jul-08	7/15/08	7/17/2008	no date	Y	Y			1/2/07				1-2007	2-2008
31	7/15/2008	Power Service Requirements for Dock	CCO 027	E	E				2,680	ERR/OMM/DDF	ERR	ERR	15-Jul-08	7/15/08	7/17/2008	no date	Y	Y			11/20/07				11-2007	4-2008
32	7/15/2008	Panel Service rev's for Elevators 1,2 & 4	CCO 024	E	E				(1,330)	ERR/OMM/DDF	UFC	DDF	15-Jul-08	7/15/08	7/17/2008	no date	Y	Y			11/7/07				11-2007	1-1900
33	7/15/2008	Panel Service revisions for Elev's 3 and 5	CCO 024-R1	E	E				(1,456)	ERR/OMM/DDF	UFC	DDF	15-Jul-08	7/15/08	7/17/2008	no date	Y	Y			11/20/07				11-2007	10-2007
34	9/12/2008	Structural Coord. - Council Chamber	CCO 004	S	S				1,395	ERR/OMM/DDF	DDF	DDF	12-Sep-08	9/12/08	9/16/2008	no date	Y	Y			2/26/08				2-2008	7-2008
35	9/12/2008	CS Column Connections, section 19/S420	CCO 045	S	S				1,270	ERR/OMM/DDF	ERR	ERR	12-Sep-08	9/12/08	9/16/2008	no date	Y	Y			2/26/08				2-2008	6-2008
36	9/12/2008	North Meeting Room in Atrium	CCO 046	S	S				603	ERR/OMM/DDF	OFF	DDF	12-Sep-08	9/12/08	9/16/2008	no date	Y	Y			2/26/08				2-2008	6-2008
37	9/12/2008	Exhaust Air Riser Loc'n @ Rms 096 thru	SI 061	M	M				6,863	ERR/OMM/DDF	ERR	ERR	12-Sep-08	9/12/08	9/16/2008	no date	Y	Y		10/22/07					10-2007	7-2008
38	9/12/2008	Sleeves at Finbar-01 (Stair-2)	SI 116	A	A				1,404	CONTRACTOR	DDF	DDF	12-Sep-08	9/12/08	9/16/2008	no date	Y	Y			5/22/08				5-2008	6-2008
39	9/12/2008	Shearwall at Mayor's Office	SI 123	S	S				4,800	ERR/OMM/DDF	DDF	DDF	12-Sep-08	9/12/08	9/16/2008	no date	Y	Y			7/2/08				7-2008	7-2008
40	10/20/2008	Rem./disposal of abandoned storm sewer	CD 006	-	C				35,075	UFC	ERR	ERR	20-Oct-08	10/20/08	10/23/2008	no date	Y	Y							10-2008	7-2008
41	10/20/2008	Test Well Abandonment	CD 007	-	C				4,572	UFC	SCD	SCD	20-Oct-08	10/20/08	10/23/2008	no date	N	Y							10-2008	1-1900

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CO	CO Date	Description	CCO/CD No.	Cons.	JO Disc	GC #	COP	AV-Sec-It	TOTAL	A/E Type	City Type	Audit Type	Issue Date	Date Appr'd by KPMB	Date Appr'd by City	Date Signed by Maystar	Quote Included?	Quote appr by A/E?	MCC Value	SI Value	CCO Value	CD value	MM Dates	RFI Date	ID MONTH	QUOTE MONTH
42	10/20/2008	Water Service Connection	CD 008	C	C				22,614	UFC	SCD	SCD	20-Oct-08	10/20/08	10/23/2008	no date	Y	Y							10-2008	6-2007
43	10/20/2008	Storm Water Management Pond Outlet	CD 009	C	C				2,244	UFC	SCD	SCD	20-Oct-08	10/20/08	10/23/2008	no date	Y	Y							10-2008	6-2007
44	10/20/2008	Council Chamber Roof Steel Connection	SI 046	S	S				4,203	ERR/OMM	DDF	DDF	20-Oct-08	10/20/08	10/23/2008	no date	Y	Y		9/18/07					9-2007	11-2007
45	10/20/2008	Toilet Revision	CCO 030	M	M				49,973	ERR/OMM/DDF	ERR	ERR	20-Oct-08	10/20/08	10/23/2008	no date	Y	Y			10/20/08				10-2008	9-2008
46	10/20/2008	South-east Grade Beam section 1A/S400	CCO 049	S	S				299	UFC	DDF	DDF	20-Oct-08	10/20/08	10/23/2008	no date	Y	Y			3/3/08				3-2008	1-1900
47	10/20/2008	Penthouse Steel Requirements	CCO 057	S	S				8,654	ERR/OMM	DDF	DDF	20-Oct-08	10/20/08	10/23/2008	no date	Y	Y			4/28/08				4-2008	9-2008
48	10/20/2008	East Atrium Ceiling Steel	CCO 058	S	S				2,212	ERR/OMM	DDF	DDF	20-Oct-08	10/20/08	10/23/2008	no date	Y	Y			4/28/08				4-2008	7-2008
49	10/20/2008	Mech. Piping and Ductwork at Level 000	CCO 059	M	M				10,526	ERR/OMM/DDF	ERR	ERR	20-Oct-08	10/20/08	10/23/2008	no date	Y	N			4/28/08				4-2008	6-2008
50	10/20/2008	Deck Support at Ramp	CCO 064	S	S				753	ERR/OMM	DDF	DDF	20-Oct-08	10/20/08	10/23/2008	no date	Y	Y			6/10/08				6-2008	5-2008
51	10/20/2008	Removal of Buried Conc. & Steel		-	C	MC 006			2,046	UFC	VFC	UFC	20-Oct-08	10/20/08	10/23/2008	no date	N	Y	4/24/07						4-2007	1-1900
52	10/20/2008	Weeping Tiles at Curb at Railway Berm.		C	C	MC 009			13,912	ERR/OMM	OPS	OPS	20-Oct-08	10/20/08	10/23/2008	no date	Y	Y	10/27/07						10-2007	11-2007
53	10/20/2008	Chilled Water Piping		M	M	MC 019			6,590	ERR/OMM	ERR	DDF	20-Oct-08	10/20/08	10/23/2008	no date	Y	Y	4/23/08				3/13/08		3-2008	4-2008
54	10/23/2008	Hydrocarbon Soils Removal	CD 001	-	C				9,810	UFC	UFC	UFC	23-Oct-08	10/23/08	12/24/2008	no date	Y	Y							10-2008	12-2221
55	11/17/2008	Hydrocarbon Soils Removal	CD No 005	-	C				179,957	UFC	UFC	UFC	17-Nov-08	10/23/08	12/24/2008	no date	Y	Y							11-2008	10-2329
56	10/24/2008	Substantial Performance Date Revision		-	-				-		#N/A		24-Oct-08	10/24/08	10/28/2008	no date									10-2008	1-1900
57	11/17/2008	Removal of Unsuitable Stockpiled Topsoil		-	C	MC 020			123,181	UFC	UFC	UFC	17-Nov-08	11/17/08	11/20/2008	no date	Y	Y	7/31/08						7-2008	12-2007
58	11/17/2008	2 Storey Steel Column Restraint	CCO 063	S	S				3,614	ERR/OMM	DDF	DDF	17-Nov-08	11/17/08	11/20/2008	no date	Y	Y			11/17/08		1/7/09		11-2008	8-2008
59	11/17/2008	Landscape Walls at Exterior Stair No. 15	SI 016	S	S				10,194	ERR/OMM	OMM	OMM	17-Nov-08	11/17/08	11/20/2008	no date	Y	Y		6/26/07					6-2007	1-2115
60	11/17/2008	Stair 11 Landing	SI 037	S	S				1,267	ERR/OMM/DDF	DDF	DDF	17-Nov-08	11/17/08	11/20/2008	no date	Y	Y		8/28/07					8-2007	8-2007
61	11/17/2008	Level 200 Cranked Beam at Grids 3 and B	SI 082	S	S				1,265	ERR/OMM	DDF	DDF	17-Nov-08	11/17/08	11/20/2008	no date	Y	Y		1/2/08					1-2008	2-2008
62	11/17/2008	Slab Edge Plan - Top of Clock Tower	SI 141R1	S	S				2,549	ERR/OMM	DDF	DDF	17-Nov-08	11/17/08	11/20/2008	no date	Y	Y		9/25/08					9-2008	10-2008
63	12/16/2008	Cistern Structural Upgrade		M	M	MC 041			6,189	SCD	ERR	ERR	16-Dec-08	12/16/08	12/18/2008	no date	Y	Y	11/4/08						11-2008	11-2008
64	12/16/2008	Level 400 & 500 Concrete Clarifications	CCO 056	S	S				9,678	ERR/OMM/DDF	ERR	ERR	16-Dec-08	1/21/09	2/3/2009	2/3/2009	Y	Y			7/14/08				7-2008	8-2117
65	1/21/2009	Level 000 Sanitary Piping Routing	CCO 047	M	M				17,124	ERR/OMM/DDF	ERR/DDF	DDF	21-Jan-09	1/21/09	2/2/2009	2/3/2009	Y	Y			3/19/08				3-2008	8-2116
66	1/21/2009	Underground Oil Storage Tank Revisions		M	M	MC 024			7,509	SCD	SCD	SCD	21-Jan-09	1/21/09	2/2/2009	2/3/2009	Y	Y	9/8/08						9-2008	9-2008
67	1/21/2009	Engineered Air Storage Costs		M	M	MC 027			21,921	CONTRACTOR	UFL	DDF	21-Jan-09	no date	2/2/2009	2/3/2009	Y	Y	9/8/08						9-2008	9-2008
68	1/21/2009	Compartment Unit Steel Support Frames		M	M	MC 028			50,263	ERR/OMM	ERR	ERR	21-Jan-09	1/21/09	2/2/2009	2/3/2009	Y	Y	9/8/08				9/3/08		9-2008	9-2008
69	1/21/2009	Floor Drain and Piping for Rms 500 & 506		M	M	MC 031			7,255	ERR/OMM	ERR	OMM	21-Jan-09	1/29/09	2/2/2009	2/3/2009	Y	Y	10/1/09				4/29/08		4-2008	10-2008
70	1/21/2009	Additional Area Drains		M	M	MC 032			4,818	ERR/OMM/DDF	ERR/DDF	OMM	21-Jan-09	1/21/09	2/2/2009	2/3/2009	Y	Y	10/14/08				12/17/07		12-2007	10-2008
71	1/21/2009	Pipe Sizing and Routing for Snow Melting		M	M	MC 036			4,871	CONTRACTOR	MM/ERR/D	DDF	21-Jan-09	1/21/09	2/2/2009	2/3/2009	Y	Y	10/21/08				11/20/07		11-2007	10-2008
72	1/21/2009	Installation of 6" drain at Room 077A		M	M	MC 038			3,974	ERR/OMM/DDF	ERR	ERR	21-Jan-09	1/21/09	2/2/2009	2/3/2009	Y	Y	10/29/08						10-2008	10-2008
73	1/21/2009	Underslab Drainage and Sump Pits (elec)	CCO 014R2	E	E				20,741	UFC	UFC/DDF	DDF	21-Jan-09	1/21/09	2/2/2009	2/3/2009	Y	Y			11/7/07		7/25/10		11-2007	4-2008
74	1/21/2009	Level 300 Bridge	CCO 062R1 +	S	S				25,343	ERR/OMM	ERR/DDF	DDF	21-Jan-09	1/21/09	2/2/2009	2/3/2009	Y	Y		7/4/08					7-2008	8-2008
75	2/3/2009	Drains and Piping Loop for Sprinkler		M	M	MC 023			240,353	ERR/OMM/DDF	ERR	ERR	3-Feb-09	2/3/09	2/4/2009	2/5/2009	Y	Y	9/8/08						9-2008	11-2008
76	2/20/2009	Security Tender	SI 159	IT	IT			Sec	873,743	OPS/COM	OPS	OPS	20-Feb-09	2/20/09	2/25/2009	2/27/2009	Y	Y		2/20/09					2-2009	1-2009
77	3/13/2009	Structural Coordination IFC Drawings	CCO 002	S	S				56,049	ERR/OMM	ERR/DDF	DDF	13-Mar-09	3/13/09	3/18/2009	3/20/2009	Y	Y			3/13/09				3-2009	5-2442
78	3/13/2009	Underslab Drainage and Sump Pits	CCO 15 15R1	M	C				184,309	UFC	UFC	UFC	13-Mar-09	3/13/09	3/18/2009	no date	Y	Y			7/24/07		7/25/10		7-2007	7-2224
79	3/13/2009	Dry Sprinklers at Computer Room.	CCO 051	M	M				52,031	OPS/COM	OPS	OPS	13-Mar-09	3/13/09	3/18/2009	no date	Y	Y		3/31/08					3-2008	10-2008
80	3/13/2009	PRV Valves	CCO 055	M	M				53,173	CONTRACTOR/SCD	SCD	SCD	13-Mar-09	3/13/09	3/18/2009	no date	Y	Y		4/15/08					4-2008	10-2008
81	3/13/2009	Kitchen Ducts	CCO 065	M	M				28,415	ERR/OMM/DDF	ERR/DDF	DDF	13-Mar-09	3/13/09	3/18/2009	no date	Y	Y		6/21/08			3/7/08		3-2008	10-2008
82	3/13/2009	Window Washing Track Framing	CCO 081	S	S				1,666	ERR/OMM/DDF	OMM/DDF	DDF	13-Mar-09	3/13/09	3/18/2009	no date	Y	Y		8/19/08					8-2008	12-2008
83	3/13/2009	Mechanical Room 495 Risers	CCO 089	M	M				1,207	ERR/OMM	DDF	DDF	13-Mar-09	3/13/09	3/18/2009	no date	Y	Y			10/28/08				10-2008	1-2009

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84	3/13/2009	Footing Elevation Revision section 9/S404	SI 083	S	S				31,487	UFC	UFC	UFC	13-Mar-09	3/13/09	3/18/2009	no date	Y	Y		1/2/08					1-2008	3-2224
85	3/13/2009	Compartment Unit Room Mock-Ups	SI 121R2	M	M				50,545	ERR/OMM	ERR	ERR	13-Mar-09	3/13/09	3/18/2009	no date	Y	Y		10/28/08					10-2008	8-2117
86	3/13/2009	Remote Heating Coils		M	M	MC 045			6,604	CONTRACTORERR	ERR	ERR	13-Mar-09	3/13/09	3/18/2009	no date	Y	Y	1/15/09						1-2009	1-2009
87	4/20/2009	Heater Revisions and Funnel Floor	CCO 025	M	M				3,155	ERR/OMM	ERR	ERR	20-Apr-09	4/20/09	4/23/2009	no date	Y	Y			11/13/07				11-2007	8-2008
88	4/20/2009	Booster Fan Deletion.	CCO 032	M	M				36,187	ERR/OMM	ERR	ERR	20-Apr-09	4/20/09	4/23/2009	no date	Y	Y			12/10/07				12-2007	8-2008
89	4/20/2009	Storm Drains and Piping	CCO 072	M	M				5,928	ERR/OMM/DDF	ERR/DDF	DDF	20-Apr-09	4/20/09	4/23/2009	no date	Y	Y			7/14/08				7-2008	10-2008
90	4/20/2009	Plumbing to Kitchenette 405A	CCO 082	M	M				15,235	CONTRACTORERR	MM/ERR/D	DDF	20-Apr-09	4/20/09	4/23/2009	no date	Y	Y			8/19/08				8-2008	11-2008
91	4/20/2009	Piping to Relocated NFHB-1	CCO 092	M	M				2,654	CONTRACTORERR	ERR/OMM	ERR	20-Apr-09	4/20/09	4/23/2009	no date	Y	Y			10/28/08				10-2008	1-2009
92	4/20/2009	Air Separator Clarifications	CCO 094	M	M				23,971	ERR/OMM/DDF	ERR	ERR	20-Apr-09	4/20/09	no date	no date	Y	Y			11/10/08		6/24/08		6-2008	11-2008
93	4/20/2009	Ductwork at Bridges 205 and 305.	CCO 098	M	M				12,435	ERR/OMM/DDF	ERR/DDF	DDF	20-Apr-09	4/20/09	no date	no date	Y	Y			11/25/08				11-2008	1-2009
94	4/20/2009	Cleanout Clarifications.	CCO 120	M	M				2,509	ERR/OMM/DDF	DDF	DDF	20-Apr-09	4/20/09	4/23/2009	no date	Y	Y			3/4/09				3-2009	3-2009
95	4/20/2009	Plumbing and Drainage Clarifications.	SI 011	M	M				3,674	ERR/OMM	DDF/ERR	DDF	20-Apr-09	4/20/09	4/23/2009	no date	Y	Y			6/4/07				6-2007	10-2008
96	4/20/2009	Concrete Partition at Stair No. 1.	SI 017	S	S				12,601	ERR/OMM	OMM/ERR	OMM	20-Apr-09	4/20/09	4/23/2009	no date	Y	Y			6/26/07				6-2007	12-2222
97	4/20/2009	Level 000 Sediment and Sump Pit.	SI 029	M	M				2,424	ERR/OMM	DDF	DDF	20-Apr-09	4/20/09	4/23/2009	no date	Y	Y			8/9/07				8-2007	10-2008
98	4/20/2009	Roof Drain Type Clarifications.	SI 103	A	A				6,579	ERR/OMM/DDF	DDF	DDF	20-Apr-09	4/20/09	4/23/2009	no date	Y	Y			4/12/08				4-2008	9-2008
99	4/20/2009	North wall at washrooms 189 and 190.	SI 125R1	A	A				649	OPS/COM	SCD	SCD	20-Apr-09	4/20/09	4/23/2009	no date	Y	Y			7/22/07				7-2007	10-2008
100	4/20/2009	FCU Tagging	SI 149	M	M				3,392	CONTRACTOR	ERC	ERR	20-Apr-09	4/20/09	4/23/2009	no date	Y	Y			10/28/08		3/27/08		3-2008	11-2008
101	4/20/2009	Sanitary Street Connection		C	C	MC 044			60,508	SCD	UFC	UFC	20-Apr-09	4/20/09	4/23/2009	no date	Y	Y	1/23/09						1-2009	1-2009
102	5/18/2009	Cold Water Connection at Computer	CCO 091	M	M				9,578	ERR/OMM/DDF	ERR/OMM	OMM	18-May	5/18/09	5/26/2009	no date	Y	Y			10/28/08				10-2008	11-2008
103	5/18/2009	Compartment Unit Condensate Drain	CCO 095	M	M	RFI 395R, CCO 095			16,108	ERR/OMM/DDF	ERR/OMM	DDF	18-May	5/18/09	5/26/2009	no date	Y	Y			11/10/08		8/19/08		8-2008	4-2009
104	5/18/2009	Ductwork at Rooms 193, 293, 393 and	CCO 097	M	M				14,863	ERR/OMM/DDF	ERR/DDF	DDF	18-May	5/18/09	5/26/2009	no date	Y	Y			11/23/08				11-2008	1-2009
105	5/18/2009	Piping at Mechanical Room 280.	CCO 102R1	M	M				94,963	ERR/OMM/DDF	ERR	ERR	18-May	5/18/09	5/26/2009	no date	Y	Y			2/16/09		10/19/07		10-2007	3-2009
106	5/18/2009	Mechanical Room 295 Discharge Plenum.	CCO 104R1	M	M				31,203	CONTRACTORERR	ERR	ERR	18-May	5/18/09	5/26/2009	no date	Y	Y			2/17/09				2-2009	2-2009
107	5/18/2009	Mechanical Room 099 and 195 Discharge	CCO 109	M	M				58,529	CONTRACTORERR	ERR	ERR	18-May	5/18/09	5/26/2009	no date	Y	Y			2/16/09				2-2009	2-2009
108	5/18/2009	Mechanical Room 499 Discharge Plenum.	CCO 115R1	M	M				30,649	CONTRACTORERR	ERR	ERR	18-May	5/18/09	5/26/2009	no date	Y	Y			3/9/09				3-2009	3-2009
109	5/18/2009	Location of Concrete Block Walls	SI 021	A	A				1,898	CONTRACTOR	SCD	SCD	18-May	5/18/09	5/26/2009	no date	Y	Y			7/5/07				7-2007	11-2007
110	5/18/2009	Boiler Exhaust Penetration Location	SI 054R1	A	A				758	ERR/OMM	ERR/OMM	OMM	18-May	5/18/09	5/26/2009	no date	Y	Y			12/10/07				12-2007	10-2008
111	5/18/2009	Sanitary Drain Routing at WC's 080 and	SI 089	M	M				3,661	ERR/OMM/DDF	ERR/OMM	OMM	18-May	5/18/09	5/26/2009	no date	Y	N			2/18/08				2-2008	10-2008
112	6/18/2009	Piping for Exterior Water Line.		M	M	MC 035			34,119	CONTRACTORERR	ERR/DDF	DDF	18-Jun-09	6/18/09	7/7/2009	no date	Y	Y	10/15/08						10-2008	10-2008
113	6/18/2009	Manhole #106 Location.	SI No. 024	C	C				25,417	ERR/OMM	ERR/DDF	DDF	18-Jun-09	6/18/09	7/7/2009	no date	Y	Y			7/12/07				7-2007	11-2008
114	6/18/2009	Snow Melt Tubing Covering.	SI No. 151	M	M				6,402	CONTRACTOR	DDF	DDF	18-Jun-09	6/18/09	7/7/2009	no date	Y	Y			10/28/08		9/12/08		9-2008	11-2008
115	6/18/2009	Building South Storm Service Connection.	CCO No. 033	C	C				49,968	UFC	ERR/DDF	DDF	18-Jun-09	6/18/09	7/7/2009	no date	Y	Y			12/12/07				12-2007	12-2007
116	6/18/2009	Lighting Revisions.	CCO No. 042	E	E				1,343	ERR/OMM/DDF	DDF	DDF	18-Jun-09	6/18/09	7/7/2009	no date	Y	Y			2/18/09				2-2009	3-2009
117	6/18/2009	North Slot Drain Service Connection.	CCO No. 052	C	C				72,551	UFC	ERR/DDF	DDF	18-Jun-09	6/18/09	7/7/2009	no date	Y	Y			4/1/08		4/16/08		4-2008	6-2008
118	6/18/2009	Power Bay Boxes at Council Chamber.	CCO No. 070	E	E				7,141	ERR/OMM	DDF	DDF	18-Jun-09	6/18/09	7/7/2009	no date	Y	Y			7/8/08				7-2008	3-2009
119	6/18/2009	Print Room Exhaust Fan Locations.	CCO No. 088	E	E				6,537	ERR/OMM	ERR	ERR	18-Jun-09	6/18/09	7/7/2009	no date	Y	Y			1/8/09		4/15/09		1-2009	3-2009
120	6/18/2009	Fire Alarm Connections.	CCO No. 093	E	E				5,217	SCDERR/OMM/DDF	DDF/UFC	DDF	18-Jun-09	6/18/09	7/7/2009	no date	Y	Y			10/29/08		11/29/08		10-2008	7-2008
121	6/18/2009	Power for Room 396.	CCO No. 123	E	E				8,625	ERR/OMM/DDF	OMM/ERR	OMM	18-Jun-09	6/18/09	7/7/2009	no date	Y	Y			3/30/09			3/11/09	3-2009	4-2009
122	6/18/2009	Underground Oil Storage Tank.	CCO No. 127	M	M				42,943	CONTRACTOR	ERR	ERR	18-Jun-09	6/18/09	7/7/2009	no date	Y	Y			4/7/09		6/24/09		4-2009	5-2009
123	7/20/2009	Terra Cotta Black Glazing		A	A	MC 048			10,028	ERR/OMM/DDF	OMM	OMM	20-Jul-09	7/20/09	8/12/2009	no date	Y	Y	3/20/09						3-2009	5-2009
124	7/20/2009	Fire Hose Cabinet Enclosures.		A	A	MC 073			17,744	ERR/OMM	DDF	DDF	20-Jul-09	7/20/09	8/12/2009	no date	Y	Y	7/7/09						7-2009	7-2009
125	7/20/2009	Print Room Exhaust Fan Locations.	CCO 088	M	M				32,015	ERR/OMM	ERR	ERR	20-Jul-09	7/20/09	8/12/2009	no date	Y	Y			10/28/08				10-2008	11-2008



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126	7/20/2009	Mechanical Room Revisions at Multi-	CCO 103R2	M	M				72,577	ERR/OMM/DDF	ERR	ERR	20-Jul-09	7/20/09	8/12/2009	no date	Y	Y			1/28/09		3/18/09		1-2009	5-2118
127	7/20/2009	Fire Dampers.	CCO 122	M	M				90,471	ERR/OMM/SCD	SCD/ERR	SCD	20-Jul-09	7/20/09	8/12/2009	no date	Y	Y			3/15/09		3/18/09		3-2009	3-2009
128	7/20/2009	Mechanical Room 495 Discharge Plenum.	CCO 126	M	M				42,497	CONTRACTORERR	ERR	ERR	20-Jul-09	7/20/09	8/12/2009	no date	Y	Y			4/7/09		4/15/09		4-2009	6-2009
129	7/20/2009	Equipment Locations at Rooms 077 and	CCO 012	M	M				3,429	CONTRACTOR	ERR	ERR	20-Jul-09	7/20/09	8/12/2009	no date	Y	Y			6/28/07				6-2007	4-2008
130	8/10/2009	Delta Electronic Urinal Flush Valves.		M	M	MC 069			8,397	CONTRACTOR	ERR	ERR	10-Aug-09	8/10/09	8/13/2009	no date	Y	Y	6/9/09						6-2009	6-2009
131	8/10/2009	Roof Pipe and Duct Supports.		M	M	MC 046			81,570	ERR/OMM	ERR/DDF	DDF	10-Aug-09	8/10/09	8/13/2009	no date	Y	Y	1/28/09						1-2009	5-2009
132	8/10/2009	Computer Room Openings in Steel Deck.		S	S	MC 026			5,331	CONTRACTORERR	ERR/DDF	DDF	10-Aug-09	8/10/09	8/13/2009	no date	Y	Y	9/10/08						9-2008	9-2008
133	8/10/2009	Concrete Wall at Stair 15+Step in Footing	SI 035	S	S				10,200	ERR/OMM/DDF	DDF	DDF	10-Aug-09	8/10/09	8/13/2009	no date	Y	Y			8/28/07				8-2007	10-2007
134	8/10/2009	Upper Mechanical Room Piping	SI 135	M	M				19,836	CONTRACTORERR	DDF	DDF	10-Aug-09	8/10/09	8/13/2009	no date	Y	Y			8/19/08				8-2008	7-2009
135	10/19/2009	CU-1-1 and CU-1-2 Plenums	CCO 132	M	M				44,672	CONTRACTORERR	ERR	ERR	19-Oct-09	10/19/09	10/27/2009	no date	Y	Y			5/15/09		5/27/09		5-2009	5-2009
136	10/19/2009	Level 500 Chiller Room	CCO 110	M	M				88,784	ERR/OMM/DDF	ERR	ERR	19-Oct-09	10/19/09	10/27/2009	no date	Y	Y			2/17/09				2-2009	7-2009
137	10/19/2009	Level 500 Heating and Cooling Piping	CCO 129	M	M				91,763	CONTRACTORERR	DDF/ERR	DDF	19-Oct-09	10/19/09	10/27/2009	no date	Y	Y			4/23/09		4/29/09	4/7/09	4-2009	7-2009
138	10/19/2009	Coring Required at FCU- Stairwells (RFI)	CCO 135	M	M				29,731	ERR/OMM/DDF	DDF	DDF	19-Oct-09	10/19/09	10/27/2009	no date	Y	Y			5/25/09		6/10/09	1/5/09	1-2009	7-2009
139	10/19/2009	Fitness Room - Delete Square Diffusers	CCO 150	M	M			(258)	ERR/OMM/DDF	ERR	DDF	19-Oct-09	10/19/09	10/27/2009	11/4/2009	Y	Y			7/15/09			6/5/09	6-2009	7-2009	
140	10/23/2009	Condensate Pump CP-1 Electrical	CCO 053	M	M				1,098	ERR/OMM/DDF	ERR	ERR	23-Oct-09	10/23/09	10/27/2009	11/4/2009	Y	Y			4/15/08				4-2008	4-2008
141	10/19/2009	Underfloor Fan Coil Unit Installation	SI 160	M	M				30,771	OPS/COM	DDF	DDF	19-Oct-09	10/19/09	10/27/2009	11/4/2009	Y	Y			1/9/09				1-2009	3-2009
142	10/19/2009	Condensate System at North and East		M	M	MC 076			113,387	ERR/OMM	OMM/ERR	OMM	19-Oct-09	10/19/09	10/27/2009	11/4/2009	Y	Y	8/5/09				3/20/09		3-2009	7-2008
143	10/19/2009	Relocation of Vent Pipe.		M	M	MC 077			3,053	CONTRACTOR	ERR	ERR	19-Oct-09	10/23/09	10/27/2009	11/4/2009	Y	Y	3/13/09						3-2009	3-2009
144	10/23/2009	Stone Cladding at Council Chamber.	CCO 060R1	A	A				7,581	CONTRACTORERR	ERR	ERR	23-Oct-09	10/23/09	10/27/2009	no date	Y	Y			8/14/08				8-2008	10-2008
145	10/23/2009	Delete Saw-Cuts at Stone Panels.	CCO 096	A	A			(7,187)	ERR/OMM	ERR	ERR	23-Oct-09	10/23/09	10/27/2009	11/11/2009	Y	Y			3/19/08		11/21/08			3-2008	11-2008
146	10/23/2009	Condensate System Level 000 South	CCO 107 107	M	M				40,783	ERR/OMM	ERR/OMM	OMM	23-Oct-09	10/23/09	10/27/2009	no date	Y	Y							3-2009	5-2009
147	10/23/2009	Rerouting Piping at Level 300 Bridge.		M	M	MC 081			1,439	ERR/OMM	ERR	ERR	23-Oct-09	10/23/09	10/27/2009	11/4/2009	Y	Y	8/25/09						8-2009	8-2009
148	10/23/2009	Fancoils Unit FCU 2-2 FCU 4-4.		M	M	MC 082			3,141	CONTRACTORERR	ERR	ERR	23-Oct-09	10/23/09	10/27/2009	11/4/2009	Y	Y	8/25/09						8-2009	8-2009
149	10/23/2009	Non Freeze Hose Bibs and Piping.		M	M	MC 083			73,665	ERR/OMM	ERR	OMM	23-Oct-09	10/23/09	no date	11/4/2009	Y	Y	8/14/09						8-2009	8-2009
150	10/29/2009	Power and Conduit for TV Cameras	CCO 117	E	E				89,864	ERR/OMM/DDF	OPS	OPS	29-Oct-09	10/29/09	10/30/2009	11/4/2009	Y	Y			2/26/09				2-2009	10-2009
151	10/29/2009	Acoustic Tile Ceilings (Alternative Price)		O	A				325,000	OPS/COM	OPS	OPS	29-Oct-09	10/29/09	10/30/2009	11/4/2009	Y	Y							10-2009	11-2006
152	1/15/2010	Archive Area above Plenum Level 000	SI 15R2	S	S				32,783	UFC	DDF	DDF	15-Jan-10	1/15/10	no date	no date	Y	Y			8/23/07				8-2007	11-2007
153	1/15/2010	Elevators No. 1, 2 and 4 Footing	SI 23 + 23R1	S	S				13,884	ERR/OMM/DDF	DDF	DDF	15-Jan-10	1/15/10	no date	no date	Y	Y			7/16/07				7-2007	1-2008
154	1/22/2010	Stepped Ledges at South Concrete wall-	SI 033	AS	S				12,186	ERR/OMM/DDF	ERR/OMM	OMM	22-Jan-10	1/22/10	no date	no date	Y	Y			8/28/07				8-2007	11-2007
155	1/22/2010	Section 8/5402 Retaining Wall (Grid D	SI 050	S	S				10,969	UFC	UFC	UFC	22-Jan-10	1/22/10	no date	no date	Y	Y			9/26/07				9-2007	11-2007
156	1/22/2010	Sewer Excavation Under Existing Footing	SI 77-R1	S	S				7,954	UFC	DDF/ERR	ERR	22-Jan-10	1/22/10	no date	no date	Y	Y			12/20/07				12-2007	1-2008
157	1/22/2010	Penthouse Steel Coordination	CCO 069 +	S	S				6,618	ERR/OMM/DDF	ERR	ERR	22-Jan-10	1/22/10	no date	no date	Y	Y			7/17/08				7-2008	12-2008
158	1/22/2010	Windpost Deletion	CCO 074	S	S			(3,003)	CONTRACTOR	DDF	DDF	22-Jan-10	1/22/10	no date	no date	Y	Y			7/24/08				7-2008	1-2009	
159	1/22/2010	Penthouse Steel Coordination at North	CCO 077	S	S				1,869	ERR/OMM/DDF	DDF	DDF	22-Jan-10	1/22/10	no date	no date	Y	Y			8/15/08				8-2008	3-2009
160	1/22/2010	Council Chamber Roof Deck Supports	CCO 106	S	S	MC 043			9,135	ERR/OMM	DDF	DDF	22-Jan-10	1/22/10	no date	no date	Y	Y	9/10/08		1/30/09		1/30/09		9-2008	12-2008
161	1/22/2010	Relocate FCU: 000 Lower-Corridor 017	SI 158	M	M				3,180	ERR/OMM	ERR	ERR	22-Jan-10	1/29/10	no date	no date	Y	Y			12/16/08				12-2008	3-2009
162	1/22/2010	Sanitary Drainage Piping Sizes and	CCO 090	M	M				33,292	ERR/OMM/DDF	ERR/DDF	DDF	22-Jan-10	1/29/10	no date	no date	Y	Y			10/28/08				10-2008	12-2008
163	1/22/2010	Kitchen Duct Routing	CCO 105R1 +	M	M				77,239	ERR/OMM/DDF	ERR	ERR	22-Jan-10	1/29/10	no date	no date	Y	Y			9/22/09		9/30/09		9-2009	11-2009
164	1/22/2010	Change in Expansion Tank Size		M	M	MC 025			3,133	CONTRACTOR	ERR/DDF	DDF	22-Jan-10	1/29/10	no date	no date	Y	Y	9/8/08						9-2008	9-2008
165	1/22/2010	Drain Pipe Relocation.		M	M	MC 033			1,136	ERR/OMM/DDF	DDF	ERR	22-Jan-10	1/29/10	no date	no date	Y	Y	10/17/08				9/24/07		9-2007	10-2008
166	1/22/2010	Shaft Reorganization.		M	M	MC 034			866	CONTRACTOR	DDF/ERR	ERR	22-Jan-10	1/29/10	no date	no date	Y	Y	10/17/08				10/16/07		10-2007	10-2008

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167	1/22/2010	Relocation of Rainwater Leader at Stair		M	M	MC 037			2,943	ERR/OMM/DDF	DFE/ERR	ERR	22-Jan-10	1/29/10	no date	no date	Y	Y	10/29/08					9/12/08	9-2008	10-2008
168	1/22/2010	Vent Pipe Relocation.		M	M	MC 049			3,053	ERR/OMM/DDF	ERR	ERR	22-Jan-10	1/29/10	no date	no date	Y	Y	3/13/09						3-2009	3-2009
169	1/22/2010	Rainwater Leader at Atrium.		M	M	MC 070			9,539	ERR/OMM	ERR	ERR	22-Jan-10	1/29/10	no date	no date	Y	Y	6/4/09					12/5/08	12-2008	6-2009
170	1/22/2010	Rerouting of Piping for FFH-1.		M	M	MC 078			4,842	CONTRACTOR	ERR	ERR	22-Jan-10	1/29/10	no date	no date	Y	Y	8/25/09						8-2009	8-2009
171	1/22/2010	Mechanical Room 395 Discharge Plenum	CCO 118	M	M				30,257	CONTRACTORERR	ERR	ERR	22-Jan-10	1/29/10	no date	no date	Y	Y			2/27/09				2-2009	3-2009
172	1/22/2010	Reflected Ceiling plans Dimensions and	SI 169	M	M				2,165	CONTRACTOR	ERR	ERR	22-Jan-10	1/29/10	no date	no date	Y	Y			3/2/09				3-2009	3-2009
173	1/22/2010	Fan Coil Unit Locations in Stairs	CCO 108	M	M				44,731	ERR/OMM/DDF	ERR	ERR	22-Jan-10	1/29/10	no date	no date	Y	Y				2/3/09			2-2009	7-2009
174	1/22/2010	Daycare - Mechanical Scope (160.1)	CCO 160	M	M				461,166	OPS/COM	COMM	COM	22-Jan-10	1/29/10	no date	no date	Y	Y			10/20/09				10-2009	11-2009
175	1/22/2010	Underground Oil Storage Tank Piping.		M	M	MC 088			1,299	CONTRACTOR	ERR	ERR	22-Jan-10	1/29/10	no date	no date	Y	Y	10/2/09						10-2009	10-2009
176	3/1/2010	Added Silencers Required for Ductwork.	CCO 152	M	M				14,513	ERR/OMM/DDF	ERR	ERR	1-Mar-10	3/1/00	no date	no date	Y	Y			7/15/09		10/21/09		7-2009	10-2009
177	3/1/2010	Relocate Kitchen (123) Vent to 200 Level	CCO 175	M	M				3,178	UFC	ERR	ERR	1-Mar-10	3/1/00	no date	no date	Y	Y			11/3/09				11-2009	11-2009
178	3/1/2010	Colour Selection at Atrium Ceiling Radiant		M,A	A	MC 74			20,876	ERR/OMM	ERR	ERR	1-Mar-10	3/1/00	no date	no date	Y	Y	7/30/09						7-2009	7-2009
179	3/1/2010	Floor Drain Revisions at Raised Floor.		M	M	MC 85			11,422	ERR/OMM/DDF	DFE	ERR	1-Mar-10	3/1/00	no date	no date	Y	Y	8/13/09					4/2/09	4-2009	8-2009
180	3/1/2010	Plumbing Piping Required at JS-1 and FD		M	M	MC 86			11,113	ERR/OMM	OMM/DDF	OMM	1-Mar-10	3/1/00	no date	no date	Y	Y	8/13/09					4/2/08	4-2008	8-2009
181	3/1/2010	Vent Termination of Underground Oil Tank		M	M	MC 87			2,165	SCD	ERR/OMM	OMM	1-Mar-10	3/1/00	no date	no date	Y	Y	10/2/09						10-2009	10-2009
182	3/1/2010	Change to Fancoil Unit FC-5-2.		M	M	MC 90			5,321	ERR/OMM	ERR	ERR	1-Mar-10	3/1/00	no date	no date	Y	Y	10/30/09						10-2009	10-2009
183	3/1/2010	Hardware Coordination	CCO 039	A	A				136,127	ERR/OMM/DDF	ERR	ERR	1-Mar-10	3/1/00	no date	no date	Y	Y			1/28/08				1-2008	1-1900
184	3/1/2010	Cover Panels for Atrium Window Motors.		A	A	MC 75			8,939	CONTRACTORERR	OMM	OMM	1-Mar-10	3/1/00	no date	no date	Y	Y	8/4/09						8-2009	8-2009
185	3/1/2010	Handicapped Door Operators at Level	CCO 099R1	E	E				16,408	OPS/COM	SCD/OPP	SCD	1-Mar-10	3/1/00	no date	no date	Y	Y			3/4/09				3-2009	6-2009
186	3/1/2010	Kitchenette Hot Water Heaters Power.	CCO 100R3	E	E				40,548	ERR/OMM/DDF	ERR	ERR	1-Mar-10	3/1/00	no date	no date	Y	Y			10/14/09				10-2009	7-2009
187	3/1/2010	Fire Alarm Monitoring of Heat Tracing.	CCO 101	E	E				1,621	SCD	SCD	SCD	1-Mar-10	3/1/00	no date	no date	Y	Y				1/9/09			1-2009	1-2009
188	3/1/2010	Electrical for Underfloor Air Terminal	CCO 112	E	E				28,698	ERR/OMM/DDF	OMM/ERR	OMM	1-Mar-10	3/1/00	no date	no date	Y	Y				2/19/09			2-2009	3-2009
189	3/11/2010	Telecom Relocation - Plan	SI 178R1	E	E				15,929	OPS/COM	OPP	OPS	11-Mar-10	5/31/10	no date	no date	Y	Y			11/16/09				11-2009	11-2009
190	3/11/2010	Panel Schedule Revisions at Mech and	CCO 079	E	E				4,203	CONTRACTORERR	DFE	DDF	11-Mar-10	5/31/10	no date	no date	Y	Y				10/14/09			10-2009	8-2009
191	3/11/2010	Departmental Changes - Added Electrical	CCO 119R1	E	E				34,182	OPS/COM	OPP	OPS	11-Mar-10	5/31/10	no date	no date	Y	Y			4/28/09				4-2009	6-2009
192	3/11/2010	Level 500 Heating and Cooling Piping	CCO 129R1	E	E				2,071	CONTRACTORERR	ERR	ERR	11-Mar-10	5/31/10	no date	no date	Y	Y				7/6/09		4/7/09	4-2009	9-2009
193	3/11/2010	Elevator Control Cabinet GFI Receptacle	CCO 148	E	E				3,820	CONTRACTOR	UFC	DDF	11-Mar-10	5/31/10	no date	no date	Y	Y				7/1/09			7-2009	7-2009
194	3/11/2010	Emergency Lighting	CCO 153	E	E				8,865	ERR/OMM/DDF	SCD	SCD	11-Mar-10	5/31/10	no date	no date	Y	Y			7/20/09				7-2009	8-2009
195	3/11/2010	Added Fire Dampers to Elevator Machine	CCO 178	M	M				12,149	SCD	ERR/SCD	SCD	11-Mar-10	5/31/10	no date	no date	Y	Y				11/9/09		3/10/10	11-2009	11-2009
196	4/16/2010	Kitchen Duct Routing - Repair to Conduit		M	M	MC 99			5,385	UFC	ERR	ERR	16-Apr-10	6/20/10	no date	no date	Y	Y	11/27/09						11-2009	11-2009
197	4/16/2010	Revised routing of print room exhaust	CCO 138	M	M				118,474	ERR/OMM/DDF	ERR	ERR	16-Apr-10	6/20/10	no date	no date	Y	Y				7/21/09			7-2009	3-2010
198	4/16/2010	Wall Mounted Devices - 100 Level	SI 188	E	E				2,439	ERR/OMM	DFE	DDF	16-Apr-10	6/20/10	no date	no date	Y	Y			6/23/09				6-2009	7-2009
199	4/16/2010	Hot and Cold Water Piping Level 000	CCO 66	M	M				14,371	ERR/OMM	ERR	ERR	16-Apr-10	6/20/10	no date	no date	Y	Y				6/21/08			6-2008	10-2008
200	4/16/2010	Power for Pumps P-23 and P-24	CCO 169	E	E				3,857	ERR/OMM/DDF	ERR	ERR	16-Apr-10	6/20/10	no date	no date	Y	Y				9/21/09			9-2009	3-2010
201	4/16/2010	Cooling Tower Power Requirements ( RFI	CCO 197	E	E				2,919	CONTRACTOR	ERR	ERR	16-Apr-10	6/20/10	no date	no date	Y	Y				12/23/09			12-2009	3-2010
202	4/16/2010	BACS Power Requirements (RFI 826-R1)	CCO 198	E	E				5,627	CONTRACTOR	DFE	DDF	16-Apr-10	6/20/10	no date	no date	Y	Y				12/23/09			12-2009	3-2010
203	4/16/2010	Pipe and Duct Supports at Level 500		M	M	MC 68			44,499	ERR/OMM	DFE	DDF	16-Apr-10	6/20/10	no date	no date	Y	Y	6/5/09						6-2009	5-2009
204	4/16/2010	Black Concealed Sprinkler Heads for		A	A	MC 79			5,749	ERR/OMM	DFE	DDF	16-Apr-10	6/20/10	no date	no date	Y	Y	9/4/09						9-2009	9-2009

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205	4/16/2010	Relocation of Computer Room Switches.		EA	E	MC 92			1,002	ERR/OMM/DDF	ERR	ERR	16-Apr-10	6/20/10	no date	no date	Y	Y	7/11/09					4/13/09	4-2009	7-2009
206	5/27/2010	Plenum Clarification	SI 208R1	M	M				26,819	ERR/OMM	ERR	ERR	27-May	6/20/10	no date	no date	Y	Y		10/9/09					10-2009	10-2009
207	5/27/2010	Mechanical Room 299 + 399 Discharge	SI 166	M	M				28,827	CONTRACTORERR/OMM/DDF	DDF	DDF	27-May	6/25/10	no date	no date	Y	Y		9/17/09					9-2009	8-2009
208	5/27/2010	Kitchen Equipment Cuts Plan + Relocation of Fire Hose Cabinets + Slab	SI 173R3	M	M				9,857	CONTRACTOR	UFC	DDF	27-May	6/25/10	no date	no date	Y	Y		1/5/10					1-2010	4-2010
209	5/27/2010	Revisions to Control Valves	CCO 26	MA	A				7,490	ERR/OMM/DDF	ERR	ERR	27-May	6/25/10	no date	no date	Y	Y			5/7/08				5-2008	10-2008
210	5/27/2010	Interior Partition Revisions - Departmental	CCO 119R2	M	M				(475)	ERR/OMM/DDF	ERR	ERR	27-May	6/25/10	no date	no date	Y	Y			1/22/08				1-2008	8-2008
211	5/27/2010	Domestic Hot Water Tanks	CCO 128	M	M				44,500	OPS/COM	OPP	OPS	27-May	6/25/10	no date	no date	Y	Y			7/19/09		6/22/09		6-2009	1-2010
212	5/27/2010	Lab 039C Exhaust	CCO 141	M	M				1,702	ERR/OMM/DDF	ERR	ERR	27-May	6/25/10	no date	no date	Y	Y			4/23/09				4-2009	8-2009
213	5/27/2010	Daycare - Electrical Scope (160.2)	CCO 141	M	M				4,559	ERR/OMM/DDF	DFD	DDF	27-May	6/25/10	no date	no date	Y	Y			6/1/09				6-2009	6-2009
214	5/27/2010	Elevator Lights and Switches	CCO 170	E	E				146,394	OPS/COM	COMM	COM	27-May	6/25/10	no date	no date	Y	Y			10/20/09				10-2009	5-2010
215	5/27/2010	Delete Sink at Council Chamber Bar (RF)	CCO 189	M	M				7,231	SCD	UFC	DDF	27-May	6/25/10	no date	no date	Y	Y			9/29/09		9/30/09		9-2009	3-2010
216	5/27/2010	Add Lawn Basins (Area Drain AD-1)	CCO 193	M	M				(3,207)	OPS/COM	OPP	OPS	27-May	6/25/10	no date	no date	Y	Y			12/4/09			10/19/09	10-2009	4-2010
217	5/27/2010	Level 100 Pull Box	CCO 221	E	E				4,323	ERR/OMM/DDF	ERR	ERR	27-May	6/25/10	no date	no date	Y	Y			12/10/09				12-2009	4-2010
218	5/27/2010	Add Shaft-wall partition at Stair 2 & Stair 3	CCO 221	E	E				18,286	OPS/COM	DFD/UFC	DDF	27-May	6/25/10	no date	no date	Y	Y			3/4/10				3-2010	3-2010
219	5/27/2010	Addition of Telecom Conduit	CCO 226	A	A				19,782	SCD	ERR	ERR	27-May	6/25/10	no date	no date	Y	Y			3/9/10				3-2010	4-2010
220	5/27/2010	Supply and install custom access panels	CCO 237	E	E				56,666	OPS/COM	OPP	OPS	27-May	6/25/10	no date	no date	Y	Y			6/21/10				6-2010	5-2010
221	5/27/2010	Heat Trace & Insulation for Sprinkler		A	A	MC 80			6,092	ERR/OMM/DDF	ERR	ERR	27-May	6/25/10	no date	no date	Y	Y							5-2010	4-2010
222	5/27/2010	Removal of Stockpile Topsoil & Fill from		M	M	MC 111			32,040	SCD	SCD	SCD	27-May	6/25/10	no date	no date	Y	Y	2/19/10						2-2010	1-2010
223	5/27/2010	Re-modified Condensate Line for FC-0-15		A	A	MC 113			187,345	UFCOPS/COM	OPP/CP,	OPS	27-May	6/25/10	no date	no date	N	Y	2/2/10						2-2010	1-1900
224	5/27/2010	Daycare Raised Flooring (160.6)		M	M	MC 116			5,712	ERR/OMM/DDF	ERR	ERR	27-May	6/25/10	no date	no date	Y	Y	2/16/10				7/8/09	7-2009	2-2010	
225	5/27/2010	Heat Tracing at Sprinklers Piping at	CCO 160	A	A				67,580	OPS/COM	COMM	COM	27-May	6/25/10	no date	no date	Y	Y			10/20/09				10-2009	5-2009
226	5/27/2010	Elevator Cab Finishes.	CCO 171R2	E	E				42,499	OPS/COM	OPP/DFD	DDF	27-May	6/25/10	no date	no date	Y	Y			3/17/10				3-2010	3-2010
227	6/22/2010	Concrete Curb at Washrooms.	CCO 010	A	A				(5,400)	CONTRACTOR	DFD	DDF	22-Jun-10	7/5/10	no date	no date	Y	Y			6/26/07				6-2007	6-2007
228	6/22/2010	Exterior Door added at Loading Dock.	CCO 28 CCO	A	A				18,712	ERR/OMM/DDF	ERR	ERR	22-Jun-10	7/5/10	no date	no date	Y	Y			8/22/08				8-2008	11-2008
229	6/22/2010	Revised Shaft Walls at South Washrooms	CCO 145	A	A				27,641	SCD	ERR/SCD	SCD	22-Jun-10	7/5/10	no date	no date	Y	Y			6/22/09		6/22/09		6-2009	5-2010
230	6/22/2010	Add Irrigation for Planter.	CCO 186	A	A				13,008	ERR/OMM/DDF	ERR	ERR	22-Jun-10	7/5/10	no date	no date	Y	Y			12/2/09				12-2009	12-2009
231	6/22/2010	Revised Radiant Panel at South	CCO 191	A	A				7,298	ERR/OMM/DDF	ERR	ERR	22-Jun-10	7/5/10	no date	no date	Y	Y			12/8/09				12-2009	1-2010
232	6/22/2010	Snow Melting System Coordination	CCO 200	MA	M				68,823	ERR/OMM/DDF	ERR	ERR	22-Jun-10	7/5/10	no date	no date	Y	Y			1/8/10		1/20/10		1-2010	4-2010
233	6/22/2010	Connection from Water Cistern to		M	M	MC 040			1,948	ERR/OMM/DDF	DFD	OMM	22-Jun-10	7/5/10	no date	no date	Y	Y	11/5/08				9/12/08	9-2008	11-2008	
234	6/22/2010	Drilling Beams in Council Chamber.		M	M	MC 061			16,248	SCD	DFD	OMM	22-Jun-10	7/5/10	no date	no date	Y	Y	4/30/09				3/4/09	3-2009	4-2009	
235	6/22/2010	Handicapped Door Operators at Level 000	CD 10	SA	S	MC 115			20,859	ERR/OMM/DDF	ERR/DFD	DDF	22-Jun-10	7/5/10	no date	no date	Y	Y	4/15/10						4-2010	3-2010
236	6/22/2010	Add Door Operators (OBC)	CCO 151R1	A	A				93,488	OPS/COM	OPP	OPS	22-Jun-10	7/5/10	no date	no date	Y	Y							6-2010	1-1900
237	6/22/2010	'FL' Light Fixture Locations in Metal Soffit	CCO 121	E	E				112,541	SCD	SCD	SCD	22-Jun-10	7/5/10	no date	no date	Y	Y			9/11/09				9-2009	6-2010
238	6/22/2010	Booster Fan Deletion-Electrical	SI 198R1	A	A				15,995	ERR/OMM/DDF	DFD	DDF	22-Jun-10	7/5/10	no date	no date	Y	Y			8/5/09				8-2009	4-2010
239	6/22/2010	Power for Room 150B.	CCO 32R1	E	E				(499)	ERR/OMM	DFD	DDF	22-Jun-10	7/5/10	no date	no date	Y	Y							6-2010	10-2008
240	6/22/2010	Power for Fancoil Units	CCO 161	E	E				11,073	OPS/COM	OPP	OPS	22-Jun-10	7/5/10	no date	no date	Y	Y			3/6/09				3-2009	3-2009
241	6/22/2010	Kitchen Equipment Tender Package	CCO 161	E	E				4,213	ERR/OMM/DDF	ERR	ERR	22-Jun-10	7/5/10	no date	no date	Y	Y			2/26/09				2-2009	9-2009
242	6/22/2010	Modification to Rebar, Concrete Beam at	SI 254	A	A				141,339	OPS/COM	OPP	OPS	22-Jun-10	7/5/10	no date	no date	Y	Y			5/20/10				5-2010	6-2010
243	6/22/2010	Concrete block wall at Vestibules 105 and	CCO 050	S	S				98,266	ERR/OMM/DDF	DFD/ERR	DDF	22-Jun-10	7/5/10	no date	no date	Y	Y			3/12/08				3-2008	3-2009
244	6/22/2010		SI 170	S	S				20,678	ERR/OMM/DDF	DFD	DDF	22-Jun-10	7/5/10	no date	no date	Y	Y			3/24/09				3-2009	12-2009

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245	7/16/2010	Heat Recovery Coil Deletion.	CCO 021	M	M				(7,002)	ERR/OMM	DFE	DDF	16-Jul-10	7/26/10	no date	no date	Y	Y			10/21/07				10-2007	6-2009
246	7/16/2010	Heat Tracing at Sprinklers Piping at	CCO 171	M	M				67,217	SCD	ERR	ERR	16-Jul-10	7/26/10	no date	no date	Y	Y			3/17/10				3-2010	6-2010
247	7/16/2010	Access Doors at Fuel Oil Pipe Location	CCO 188	M	M				5,150	SCD	SCD	SCD	16-Jul-10	7/26/10	no date	no date	Y	Y			12/4/09		11/5/09		11-2009	2-2010
248	7/16/2010	Sprinklers at Rooms 063 and 064.	SI 251	M	M				21,544	CONTRACTOR	ERR	ERR	16-Jul-10	7/26/10	no date	no date	Y	Y		5/9/10					5-2010	6-2010
249	7/16/2010	100 Level Agilia Aztec Bolster & Aztec		A	A	MC 14			5,763	UFC	DFE	DDF	16-Jul-10	7/26/10	no date	no date	N	Y	12/4/07						12-2007	1-1900
250	7/16/2010	Garage Ceiling Insulation 50mm to 75mm		A	A	MC 110			10,187	ERR/OMM/DDF	DFE	DDF	16-Jul-10	7/26/10	no date	no date	N	Y	1/18/10						1-2010	1-1900
251	7/16/2010	Additional Stone at Stairwell No 1.		A	A	MC 118			4,434	ERR/OMM/DDF	DFE	DDF	16-Jul-10	7/26/10	no date	no date	Y	Y	2/19/10						2-2010	2-2010
252	7/16/2010	Boston Valley Additional Costs.		A	A	MC 121			31,201	ERR/OMM/DDF	DFE	DDF	16-Jul-10	7/26/10	no date	no date	Y	Y							7-2010	7-2010
253	7/16/2010	Winter Heating Costs		A	A	MC 132			300,251	UFC	UFC	UFC	16-Jul-10	7/26/10	no date	no date	Y	Y	3/22/10						3-2010	1-2010
254	7/16/2010	Additional Air Grilles in Rooms 39, 30 and		M	M	MC 152			4,734	ERR/OMM/DDF	DFE	OMM	16-Jul-10	7/26/10	no date	no date	Y	Y	5/3/10				12/4/09		12-2009	4-2010
255	7/16/2010	Parking Garage Damper Access.		M	M	MC 153			2,249	UFC	DFE	ERR	16-Jul-10	7/26/10	no date	no date	Y	Y	5/3/10				3/3/10		3-2010	4-2010
256	7/16/2010	Add Drywall ceiling in Janitor Rm. 506		A	A	MC 159			1,643	UFC	ERR	ERR	16-Jul-10	7/26/10	no date	no date	Y	Y	5/10/10						5-2010	5-2010
257	7/16/2010	Steel Work at North & East Atria	CD 014	S	S				125,000	CONTRACTOR	UFC	UFC	16-Jul-10	7/26/10	no date	no date	Y	Y							7-2010	2-2010
258	7/16/2010	Raised Floor System - Bridging at	CD 015	A	A				73,405	CONTRACTORERR	ERR/UFC	DDF	16-Jul-10	7/26/10	no date	no date	Y	Y							7-2010	3-2010
259	7/16/2010	Planter at Exterior Stair No-18.	CCO 005R1	SL	S				78,598	ERR/OMM/DDF	ERR/OFF	DDF	16-Jul-10	7/26/10	no date	no date	Y	Y			5/7/07				5-2007	1-2008
260	7/16/2010	Concrete at Landscape Wall at South-	CCO 037	SL	S				1,752	ERR/OMM/DDF	DFE	DDF	16-Jul-10	7/26/10	no date	no date	Y	Y			1/7/08				1-2008	1-2008
261	7/26/2010	A/V Tender Package.	SI 249	IT	IT			A/V	1,650,579	OPS/COM	OPP	OPS	26-Jul-10	7/26/10	no date	no date	Y	Y		4/17/10					4-2010	6-2010
262	8/23/2010	Booster Fan Deletion-Electrical	CCO 032-R1	E	E				(499)	ERR/OMM	DFE	DDF	23-Aug-10	9/9/10	no date	no date	Y	Y			4/15/08				4-2008	10-2008
263	8/23/2010	Daycare Area (Drywall-160.4)	CCO 160	A	A				161,292	OPS/COM	OPP	OPS	23-Aug-10	9/9/10	no date	no date	Y	Y			10/20/09				10-2009	11-2009
264	8/23/2010	Security Revisions	CCO 192	E	IT			SEC	37,749	OPS/COM	DFE/UFC	UFC	23-Aug-10	9/9/10	no date	no date	Y	Y			7/22/10		6/28/10		6-2010	7-2010
265	8/23/2010	Structural Steel for Fall Arrest Anchor.	SI 074	S	S				14,500	ERR/OMM/DDF	ERR	ERR	23-Aug-10	9/9/10	no date	no date	Y	Y		12/12/07					12-2007	10-2008
266	8/23/2010	Fan Coil Unit Locations in Stairs - Elec	SI 133	E	E				2,467	ERR/OMM/DDF	ERR	ERR	23-Aug-10	9/9/10	no date	no date	Y	Y			7/28/08				7-2008	3-2009
267	8/23/2010	Office 040D & 230M Ceiling Dimensions	SI 179	A	A				716	ERR/OMM/DDF	DFE	DDF	23-Aug-10	9/9/10	no date	no date	Y	Y			5/20/09				5-2009	9-2009
268	8/23/2010	Addition of door & hardware to opening		A	A	MC 60			7,912	ERR/OMM/DDF	ERR/SCD	SCD	23-Aug-10	9/9/10	no date	no date	Y	Y	4/8/09				3/6/09		3-2009	1-1900
269	8/23/2010	Fire Stopping for Opening at Stairwell.		A	A	MC 89			10,423	SCD	DFE	DDF	23-Aug-10	9/9/10	no date	no date	Y	Y	10/2/09						10-2009	10-2009
270	8/23/2010	Substitution of Summit Ash Trees		L	L	MC 119			3,737	UFC	OPP	OPS	23-Aug-10	9/9/10	no date	no date	Y	Y	3/16/10						3-2010	1-2010
271	8/23/2010	Additional Partition Frames at Level 100		A	A	MC 123			6,734		ERR	ERR	23-Aug-10	9/9/10	no date	no date	Y	Y	3/19/10						3-2010	1-1900
272	8/23/2010	Structural Metal Studs at Wall Type 8.8		A	A	MC 138			8,830	ERR/OMM/DDF	DFE/ERR	DDF	23-Aug-10	9/9/10	no date	no date	Y	Y	4/11/10						4-2010	9-2009
273	8/23/2010	Storm, Sanitary & Watermain Connections		C	C	MC 154			120,590	OPS/COM	OPP	OPS	23-Aug-10	9/9/10	no date	no date	Y	Y	5/28/10						5-2010	5-2010
274	8/23/2010	Change CS-1 sink to Suit Millwork. (RFI		A	A	MC 179			4,912	ERR/OMM/DDF	ERR	ERR	23-Aug-10	9/9/10	no date	no date	Y	Y	8/13/10				6/28/10		6-2010	7-2010
275	9/24/2010	Chamber Buildup Seating Plan and	CCO 068	S	S				618	ERR/OMM	DFE	DDF	24-Sep-10	12/23/10	no date	no date	Y	Y			6/23/08				6-2008	8-2010
276	9/24/2010	Penthouse Screen Extension.	CCO 075-R2	S	S				30,730	ERR/OMM/DDF	ERR/OFF	DDF	24-Sep-10	12/23/10	no date	no date	Y	Y			8/27/10				8-2010	8-2010
277	9/24/2010	Penthouse Steel Modifications.	CCO 084	S	S				6,263	ERR/OMM/DDF	DFE	DDF	24-Sep-10	12/23/10	no date	no date	Y	Y			8/27/08				8-2008	6-2009
278	9/24/2010	Revised HVAC at Rooms 022 + 023.	CCO 194	M	M				17,084	ERR/OMM/DDF	ERR	ERR	24-Sep-10	12/23/10	no date	no date	Y	Y			12/14/09				12-2009	1-2010
279	9/24/2010	Additional Work for Non Freeze Hose		M	M	MC 029			1,886	ERR/OMM/DDF	DFE	DDF	24-Sep-10	12/23/10	no date	no date	Y	Y	10/7/09						10-2009	10-2008
280	9/24/2010	Sprinklers at Washrooms at Levels 200.		M	M	MC 160			14,555	ERR/OMM/DDF	ERR	ERR	24-Sep-10	12/23/10	no date	no date	Y	Y	5/10/10						5-2010	5-2010
281	9/24/2010	Linear Foot Grilles - Revise to Non	CCO 113R1	M	M				108,043	ERR/OMM/DDF	ERR	ERR	24-Sep-10	12/23/10	no date	no date	Y	Y			9/24/09		9/2/09		9-2009	6-2010
282	9/24/2010	Ceiling Tile Layout (Alternative Price No.	SI 217	O	A				63,536	OPS/COM	OPP	OPS	24-Sep-10	12/23/10	no date	no date	Y	Y		9/28/10					9-2010	1-2010
283	9/24/2010	Interior Curtain Wall - Additional Glazing		A	A	MC 142			45,513	OPS/COMERR/OM	DFE	DDF	24-Sep-10	12/23/10	no date	no date	Y	Y	9/24/10						9-2010	1-2010

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284	11/1/2010	Bent Plate at Penthouse Roof	CCO 073	S	S				44,413	ERR/OMM/DDF	DFD	DDF	1-Nov-10	1/14/11	not signed	not signed	Y	Y			7/17/08				7-2008	1-2009
285	11/1/2010	Delete Light Fixture - NW Landscape	CCO 087	E	E				-	ERR/OMM/DDF	ERR/DDF	DDF	1-Nov-10	1/14/11	not signed	not signed					10/24/08		6/11/08		6-2008	1-1900
286	11/1/2010	Fire Rated Partition & Doors, Level 000.	CCO 125	AME	A				34,304	SCD	DFD	DDF	1-Nov-10	1/14/11	not signed	not signed	Y	Y			4/2/09				4-2009	3-2010
287	11/1/2010	Revised Ceiling Plan - Hallway 126.	CCO 134	MA	A				18,582	ERR/OMM	ERR/DDF	DDF	1-Nov-10	1/14/11	not signed	not signed	Y	Y			5/25/09				5-2009	5-2010
288	11/1/2010	Condensate System Level 000 North (RFI)	CCO 140	M	M				2,763	ERR/OMMERR/OMM	ERR/OMM	DDF	1-Nov-10	1/14/11	not signed	not signed	Y	Y			5/29/09		3/20/09		3-2009	8-2010
289	11/1/2010	Irrigation Valve.	CCO 164	M	M				18,120	ERR/OMM/DDF	ERR/OMM	OMM	1-Nov-10	1/14/11	not signed	not signed	Y	Y			9/1/09				9-2009	12-2009
290	11/1/2010	Freeze Protection at Vertical Storm Line -	CCO 174	M	M				1,945	ERR/OMM/DDF	DFD	DDF	1-Nov-10	1/14/11	not signed	not signed	Y	Y			11/3/09		10/8/09		10-2009	11-2009
291	11/1/2010	Revised Ducting to EF-12 (RFI 820-R2)	CCO 187	M	M				3,532	ERR/OMM/DDF	ERR	ERR	1-Nov-10	1/14/11	not signed	not signed	Y	Y			12/4/09				12-2009	12-2009
292	11/1/2010	Fuel Oil Piping Revisions (RFI 364-R1).	CCO 199	M	M				33,130	SCDERR/OMM/DDF	SCD	SCD	1-Nov-10	1/14/11	not signed	not signed	Y	Y			1/4/10				1-2010	6-2010
293	11/1/2010	Concrete Vent Support (RFI 714R1).	CCO 201	MA	A				16,091	ERR/OMM/DDF	ERR/DDF	DDF	1-Nov-10	1/14/11	not signed	not signed	Y	Y			1/26/10		1/0/00		11-2010	8-2010
294	11/1/2010	Revised Mechanical at West Facade of	CCO 212 CCO	EMA	M				84,163	ERR/OMM	ERR/DDF	DDF	1-Nov-10	1/14/11	not signed	not signed	Y	Y			3/9/10				3-2010	4-2010
295	11/1/2010	Add Fire rated drywall ceiling in corridor	CCO 213	EMA	A				15,427	SCD	ERR	ERR	1-Nov-10	1/14/11	not signed	not signed	Y	Y			2/16/10		3/31/10		2-2010	4-2010
296	11/1/2010	Ratings btwn Fan Room 502,Chiller Room	CCO 215	A	A				3,542	SCD	ERR	ERR	1-Nov-10	1/14/11	not signed	not signed	Y	Y			2/16/10		2/17/10		2-2010	4-2010
297	11/1/2010	Ductwork & Plumbing at Kitchen Area.	CCO 232	M	M				14,394	ERR/OMM/DDF	ERR	ERR	1-Nov-10	1/14/11	not signed	not signed	Y	Y			3/25/10				3-2010	4-2010
298	11/1/2010	Power to Sinks WC 124 and WC 124a.	CCO 271	E	E				598	ERR/OMM/DDF	ERR	ERR	1-Nov-10	1/14/11	not signed	not signed	Y	Y			9/1/10				9-2010	9-2010
299	11/1/2010	Sleeve Locations for Sprinkler Heads at	SI 117	M	M				122,926	ERR/OMM/DDF	ERR	ERR	1-Nov-10	1/14/11	not signed	not signed	Y	Y		5/23/08					5-2008	9-2010
300	11/1/2010	Revised Motor List Power Revisions.	SI 172R1	E	E				37,883	CONTRACTOR	ERR	ERR	1-Nov-10	1/14/11	not signed	not signed	Y	Y		5/22/09					5-2009	7-2009
301	11/1/2010	WC Review Maystar RFI 076 Section at South Loft Roof to Mechanical	CCO 034	S	S			MC 039	8,659		DFD	ERR	1-Nov-10	1/14/11	not signed	not signed	Y	Y	11/7/08						11-2008	11-2008
302	11/1/2010	Wind post Deletion.	CCO 067	S	S				35,001	ERR/OMM/DDF	ERR	ERR	1-Nov-10	1/14/11	not signed	not signed	Y	Y			1/2/08				1-2008	5-2009
303	11/1/2010	1 hour rated drywall ceiling in Room 506.	CCO 067	S	S				(3,979)	CONTRACTOR	DFD	DDF	1-Nov-10	1/14/11	not signed	not signed	Y	Y			6/21/08				6-2008	1-2009
304	11/1/2010	Modify Heating Pipes at 100 East at Metal		A	A			MC 141	2,094	UFC	ERR	ERR	1-Nov-10	1/14/11	not signed	not signed	Y	Y	4/11/10						4-2010	3-2010
305	11/1/2010	Modifications to FF-2 due to Additional		M	M			MC 169	10,085	ERR/OMM/DDF	DFD	DDF	1-Nov-10	1/14/11	not signed	not signed	Y	Y							11-2010	8-2010
306	11/1/2010	Deletion of GWB at Service Rooms	CCO 083	A	A				(942)	ERR/OMM	DFD	DDF	1-Nov-10				Y	Y			8/26/08				8-2008	3-2009
308	11/1/2010	Landscape Concrete Walls South end of	CCO 085R1	SL	L				114,655	ERR/OMM/DDF	ERR	ERR	1-Nov-10				Y	Y			10/10/08				10-2008	9-2010
309	11/1/2010	Partition Change Level 100 to Concrete Fill at Level 100	CCO 133	A	A				2,023	ERR/OMM/DDF	ERR	ERR	1-Nov-10				Y	Y			5/25/09				5-2009	9-2009
310	11/1/2010	Roof	CCO 136	A	A				6,536	ERR/OMM/DDF	COMM	COM	1-Nov-10				Y	Y			5/25/09				5-2009	8-2009
311	11/1/2010	Daycare Tile Scope	CCO 160.3	A	A				114,605	OPS/COM	DFD	DDF	1-Nov-10				Y	Y			10/20/09		10/21/09		10-2009	10-2009
312	11/1/2010	Drawing 241 - Level 400 Framing Plan Part	CCO 071	S	S				862	ERR/OMM/DDF	UFC	UFC	1-Nov-10				Y	Y			7/11/08				7-2008	1-2009
313	11/1/2010	Security Door Contacts at Daycare	CCO 185	E	E				10,606	OPS/COM	OPP	OPS	1-Nov-10				Y	Y			12/2/09		6/28/10		12-2009	7-2010
314	11/1/2010	Deletion of Toilet Paper Dispenser	CCO 211	A	A				(2,995)	OPS/COM	ERR	ERR	1-Nov-10				Y	Y			2/8/10				2-2010	2-2010
315	11/1/2010	Mechanical at Cafe Kitchen	CCO262R1.2	M	M				166,960	ERR/OMM/DDF	ERR	ERR	1-Nov-10				Y	Y							11-2010	10-2010
316	11/1/2010	Openings in Slab Edge	SI 109	A	A				3,782	SCD	ERR	ERR	1-Nov-10				Y	Y		5/28/08					5-2008	7-2008
317	11/1/2010	Level 200 RWL & DCW pipe locations	SI 154	A	A				4,387	CONTRACTOR	ERR	ERR	1-Nov-10				Y	Y		11/24/08					11-2008	3-2009
318	11/1/2010	Change Wall Type W.1B to W.1C (RFI)		A	A			MC 097	1,203		ERR	ERR	1-Nov-10				Y	Y	4/21/09						4-2009	4-2008
319	11/1/2010	Power for Temporary Heating Units		E	E			MC 098	6,398		UFC	UFC	1-Nov-10				Y	Y	11/27/09						11-2009	11-2009
320	11/1/2010	Smoke Seal Under Glass Part's: Level		A	A			MC 106	5,060		ERR/DDF	OMM	1-Nov-10				Y	Y	1/4/10				1/13/09		1-2009	7-2009
321	11/1/2010	Change Wall Type in Room 250C (RFI)		A	A			MC 117	2,090		OPP	ERR	1-Nov-10				Y	Y	2/16/10				7/13/09		7-2009	9-2009
322	11/1/2010	Re and Re Epoxy Terrazzo at Level 000		A	A			MC 143	3,590		DFD	DDF	1-Nov-10				Y	Y	4/11/10						4-2010	3-2010

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323	11/1/2010	Disconnect Temporary Heaters		E	E	MC 151			2,766		UFC	UFC	1-Nov-10				Y	Y	4/26/10						4-2010	4-2010
324	11/1/2010	Insulation to Concrete Duct (RFI 931)		M	M	MC 161			8,547		DFE	DDF	1-Nov-10				Y	Y							11-2010	8-2010
325	11/1/2010	L-1 Louvre Access Door (RFI 930)		A	A	MC 167			4,646		DFE	DDF	1-Nov-10				Y	Y	6/9/10					3/3/10	3-2010	6-2010
326	11/1/2010	5 RSI Roller Shades-Committee Rooms		A	A	MC			11,257		OPP	OPS	1-Nov-10				Y	Y	8/27/10						8-2010	8-2010
327	11/1/2010	Revisions to Fire Rated Wall/Damper		A	A	MC 182			3,076		DFE	DDF	1-Nov-10				Y	Y	8/23/10					1/13/09	1-2009	9-2009
328	11/1/2010	Additional costs for Blackening of		A	A	MC 191			1,117		DFE	DDF	1-Nov-10				Y	Y	9/30/10						9-2010	9-2010
329	12/2/2010	Supply & Install One Card Access		AE	A	MC 208			6,723	OPS/COM	OPP	OPS	2-Dec-10				Y		11/11/10						11-2010	11-2010
330	12/2/2010	Install & Terminate 2 new drops for		AE	E	MC 210			2,124	OPS/COM	OPP	OMM	2-Dec-10				Y		11/12/10					5/31/10	5-2010	8-2010
331	12/2/2010	MDVO Jack Change	CCO 251	IT	IT			IT	5,125	OPS/COM	UFC	UFC	2-Dec-10				Y				5/13/10				5-2010	5-2010
332	12/2/2010	Window Sprinklers at Level 000 Parking	SI 278	M	M				22,216	SCD	DFE	DDF	2-Dec-10				Y			9/6/10					9-2010	10-2010
333	12/2/2010	Mechanical at Cafe Kitchen Window Sprinkler at Reception 032	CCO 262R1	M	M				52,814	ERR/OMM/DDF	DFE	DDF	2-Dec-10				Y				6/23/10		6/30/07		6-2007	8-2010
334	12/2/2010	3 way control valves for PHC on AHU-1 &	CCO 281	M	M				33,763	SCD	DFE	DDF	2-Dec-10				Y				9/6/10				9-2010	10-2010
335	12/2/2010	Additional Grilles for Filter Access		M	M	MC 172			16,976	ERR/OMM/DDF	DFE	DDF	2-Dec-10				Y		7/5/10					1/7/10	1-2010	6-2010
336	12/2/2010	Revisions to uniflor system furniture		M	M	MC 184			17,074	UFC	DFE	DDF	2-Dec-10				Y		8/30/10						8-2010	8-2010
337	12/2/2010	Elevator Floor Finishes - Clarification	SI 245	A	A			FI	13,141	OPS/COMERR/OM	OPP/UFC	OPS	2-Dec-10				Y			3/19/10					3-2010	11-2010
338	12/2/2010	Fire Rating as per OBC Compliance	CCO 149	A	A				950	SCD	DFE/SCD	SCD	2-Dec-10				Y				7/2/09				7-2009	9-2009
340	12/2/2010	Daycare	CCO 160.5	M	M				37,382	OPS/COM	OPP	OPS	2-Dec-10				Y				10/20/09		12/9/09		10-2009	3-2010
341	12/2/2010	Deletion of Uniflor system furniture	CCO 231R1	A	A			FI	(4,920)	OPS/COM	OPP	OPS	2-Dec-10				Y				4/16/10				4-2010	11-2010
342	12/2/2010	Details of shower in Mayor's WC (Rm 407)	CCO 252	A	A				2,702	ERR/OMM/DDF	DFE	DDF	2-Dec-10				Y				5/18/10				5-2010	8-2010
343	12/2/2010	Fire Protection at Drain Under Stair 9	CD 023	A	A				1,519	SCDERR/OMM/DD	SCD	SCD	2-Dec-10				Y								12-2010	11-2010
344	12/2/2010	A/V Option Selection	CD 031	IT	IT			A/V	771,622	OPS/COM	OPP	OPS	2-Dec-10				Y								12-2010	11-2010
345	12/2/2010	A/V Work	CD 041	IT	IT			A/V	258,414	OPS/COM	OPP	OPS	2-Dec-10				Y								12-2010	11-2010
346	12/2/2010	New HM Frame and HM Door #396		A	A	MC 175			1,072	ERR/OMM/DDF	DFE	DDF	2-Dec-10				Y		7/21/10					11/5/09	11-2009	7-2010
347	12/2/2010	Addition of continuous hinges and door		A	A	MC 178			3,330	ERR/OMM/DDF	DFE	DDF	2-Dec-10				Y		8/12/10						8-2010	8-2010
348	12/2/2010	CDS Refrigerated Self Serve Display		A	A	MC 203			9,986	ERR/OMM/DDF	OMM	OMM	2-Dec-10				Y		11/1/10						11-2010	10-2010
349	12/2/2010	Supplementary Costs for CCO 178		A	A	MC 209			1,584	ERR/OMM/DDF	DFE	DDF	2-Dec-10				Y		11/12/10						11-2010	11-2009
350	12/22/2010	A4.14- RCP Dimensions, level 100 Centre	SI 187	A	A				3,316	ERR/OMM	DDF	DDF	22-Dec-10				Y				6/19/09				6-2009	9-2009
351	12/22/2010	Wall Mounted Grilles	SI 229	M	M				3,907	ERR/OMM/DDF	DDF	DDF	22-Dec-10				Y				12/15/09				12-2009	1-2010
352	12/22/2010	Sprinkler Requirements at Stair No 9 and	SI 241	M	M				16,154	ERR/OMM/SCD	SCD	SCD	22-Dec-10				Y				3/5/10				3-2010	8-2010
353	12/22/2010	Revision to uniflor system furniture	SI 245R1	A	A			FI	9,436	OPS/COMERR/OM	OPP	OPS	22-Dec-10				Y				8/12/10				8-2010	11-2010
354	12/22/2010	Concrete at Compact Storage Rails	SI 259	A	A				15,586	CONTRACTOR	DDF/ERR	DDF	22-Dec-10				Y				8/23/10				8-2010	8-2010
355	12/22/2010	Level 000 Daycare Washrooms 021R and	CCO 76	A	A				8,513	ERR/OMM/DDF/SCD	DDF	DDF	22-Dec-10				Y				8/25/08				8-2008	11-2008
356	12/22/2010	Hardware	CCO 166	A	A				4,267	ERR/OMM/DDF	OPP	OPS	22-Dec-10				Y				9/14/09				9-2009	8-2010
357	12/22/2010	Revised Reception Area at Archives	CCO 206R1	A	A				1,867	OPS/COM	OPP	OPS	22-Dec-10				Y				2/5/10		3/31/10		2-2010	8-2010
358	12/22/2010	Add Metal Filler Panel at Top of Lockers in	CCO 209	A	A				923	ERR/OMM/DDF	DDF	DDF	22-Dec-10				Y				1/29/10				1-2010	2-2010
359	12/22/2010	Delete CLOSET 350J	CCO 227	A	A				(950)	ERR/OMM/DDF	OPP	OPS	22-Dec-10				Y				3/12/10				3-2010	11-2010
360	12/22/2010	Revisions to Landscape Planting	CCO 242	L	L				46,875	OPS/COM	OPP	OPS	22-Dec-10				Y				4/23/10				4-2010	10-2010
361	12/22/2010	Add fire rated drywall partition and HM	CCO 247R2	E	E				8,567	SCD	SCD	SCD	22-Dec-10				Y				6/15/10				6-2010	6-2010
362	12/22/2010	Stone Wall in Main Lobby- Revised Stone	CCO 255R2	AE	A				(8,517)	ERR/OMM	UFC	UFC	22-Dec-10				Y				9/28/10		6/2/10		6-2010	6-2010
363	12/22/2010	Delete Millwork Item MW-240G (Bar Rail)	CCO 257	A	A				(4,325)	ERR/OMM/DDF	OPP	OPS	22-Dec-10				Y				6/4/10				6-2010	12-2010

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364	12/22/2010	Add Plywood Blocking to Selected	CCO 259	A	A				7,369	SCD	DDF	DDF	22-Dec-10				Y			6/14/10					6-2010	9-2010
365	12/22/2010	Provide smoke seal partitions above		A	A	MC 124			9,371	ERR/OMMSCD	SCD	SCD	22-Dec-10				Y		3/15/10				6/4/09	6-2009	9-2009	
366	12/22/2010	Extend type 3.11 partition at Kitchennette	CCO 276	A	A				3,964	ERR/OMM/DDF	DDF	DDF	22-Dec-10				Y			9/2/10					9-2010	9-2010
367	12/22/2010	Rail Installation Costs	CCO 277		A				7,607	OPS/COMCONTRA	OPP	OPS	22-Dec-10				Y			9/3/10					9-2010	9-2010
368	12/22/2010	Meeting Room 405 Brace	CCO 286	S	S				1,993	ERR/OMM	DDF	DDF	22-Dec-10				Y			9/24/10					9-2010	10-2010
369	12/22/2010	Dry Cooler #3 Power	CCO 288	E	E				3,303	ERR/OMM/DDF	DDF	DDF	22-Dec-10				Y			9/27/10					9-2010	10-2010
370	12/22/2010	Pan Heater and Control Panel Power	CCO 289	E	E				1,968	ERR/OMM/DDF	DDF	DDF	22-Dec-10				Y			9/27/10					9-2010	10-2010
371	12/22/2010	Welded Sprinkler Pipes at Satirs 4 and 9.	CCO 293	M	M				8,884	ERR/OMM/DDF	SCD	SCD	22-Dec-10				Y			10/6/10		10/6/10			10-2010	11-2010
372	12/22/2010	One-Hr Shaft Wall to FinBar-3	CD 40	A	A				2,564	SCD	DDF	DDF	22-Dec-10				Y								12-2010	12-2010
373	12/22/2010	Add one AD-3 drain		M	M	MC 13			5,321	ERR/OMM/DDF	DDF	DDF	22-Dec-10				Y		2/7/08				11/7/07	11-2007	2-2008	
374	12/22/2010	Elevator Room 505 Wall/Duct Interference		A	A	MC 101			3,768	UFC	DDF	DDF	22-Dec-10				Y		9/11/09						9-2009	9-2009
375	12/22/2010	Re-route Mechanical at 400 Level		M	M	MC 105			68,349	ERR/OMM/DDF	DDF	DDF	22-Dec-10				Y		12/22/09				3/27/09	3-2009	12-2009	
376	12/22/2010	Brace Removal		A	A	MC 108			718	UFC	UFC	UFC	22-Dec-10				Y		5/4/10				7/15/09	7-2009	12-2009	
377	12/22/2010	Supplementary costs to CCO 186		A	A	MC 147			2,965	ERR/OMM/DDF	DDF	DDF	22-Dec-10				Y		4/13/10						4-2010	3-2010
378	12/22/2010	Cut Holes to Accommodate Pipes at		A	A	MC 157			1,946	ERR/OMM/DDF	DDF/UFC	DDF	22-Dec-10				Y		5/5/10						5-2010	2-2010
379	12/22/2010	Supply and Installation of 3 drops for		IT	IT	MC 187		IT	2,407	OPS/COM	OPP	OPS	22-Dec-10				Y		9/21/10				9/13/10	9-2010	9-2010	
380	12/22/2010	Supplementary costs for CCO 226		A	A	MC 192			(3,520)	SCD	UFC	UFC	22-Dec-10				Y		10/8/10						10-2010	10-2010
381	12/22/2010	Install Black Sprinkler Heads and Heat		M	M	MC 206			11,581	ERR/OMM/DDF	DDF	DDF	22-Dec-10				Y		11/10/10						11-2010	10-2010
382	12/22/2010	Supply and Install Pipe Guide Required		M	M	MC 150			19,869	ERR/OMM/DDF	DDF	DDF	22-Dec-10				Y		4/20/10				7/15/09	7-2009	4-2010	
383	12/22/2010	ULC Assemblies	SI 174	A	A				29,024	CONTRACTOR	SCD	SCD	22-Dec-10				Y			4/20/09					4-2009	9-2009
384	12/22/2010	TSSA Curb Requirements at Generator	CD 21	M	M				8,495	SCD	SCD	SCD	22-Dec-10				Y								12-2010	11-2010
385	12/22/2010	Green Roof Irrigation Stub-out	CD 27	M	M				8,781	ERR/OMM/DDF	0	DDF	22-Dec-10				Y								12-2010	10-2010
386	12/22/2010	Thermostat Elevations	CD 47	M	M				8,325	UFCERR/OMM/DD	UFC	UFC	22-Dec-10				Y								12-2010	11-2010
387	12/22/2010	Day Tank Float	CD 58	M	M				4,956	SCDERR/OMM/DD	SCD	SCD	22-Dec-10				Y								12-2010	12-2010
388	12/22/2010	Deletion of Force Flow Unit FF-1	CCO 139R1	M	M				(3)	ERR/OMM	UFC	UFC	22-Dec-10				Y				7/1/09				7-2009	4-2010
389	12/22/2010	Delete Square Ceiling Diffusers - Replace	CCO 177	M	M				(331)	ERR/OMM/DDF	UFC	UFC	22-Dec-10				Y				11/6/09		6/5/09	6-2009	4-2010	
390	12/22/2010	Fire Dampers at Rms 052 & 098	CCO 233	M	M				5,327	ERR/OMM/DDF	DDF	DDF	22-Dec-10				Y			3/25/10			11/11/09	11-2009	4-2010	
391	12/22/2010	Addition of Fire Dampers	CCO 238	M	M				10,333	ERR/OMMSCD	DDF	DDF	22-Dec-10				Y			3/29/10					3-2010	4-2010
392	12/22/2010	Exhaust Grilles for Rooms 021Q and	CCO 264	M	M				1,285	CONTRACTORERR	OPP	OPS	22-Dec-10				Y			7/8/10					7-2010	7-2010
393	12/22/2010	Supplementary Costs for CCO 200		M	M	MC 205			14,071	ERR/OMM/DDF	DDF	DDF	22-Dec-10				Y		11/10/10						11-2010	11-2010
394	1/31/2011	Wall Mounted Grilles	SI 229.1	M	M				1,513	ERR/OMM/DDF	DDF/ERR	DDF	31-Jan-11				Y			12/15/09					12-2009	1-2011
395	1/31/2011	Daycare Washroom - Room 021K - Added	CCO 203	M	M				7,390	OPS/COM	OPP	OPS	31-Jan-11				Y			1/13/10					1-2010	1-2010
396	1/31/2011	Additional Underfloor Units at Corridor	CCO 258	M	M				1,560	ERR/OMM	DDF	DDF	31-Jan-11				Y			6/7/10					6-2010	6-2010
397	1/31/2011	Add type 9.23 partition to 428K relocate	CCO 272	AM	A				12,398	OPS/COM	OPP	OPS	31-Jan-11				Y			8/17/10					8-2010	12-2010
398	1/31/2011	Add door operators as per OBC	CCO 151R2.2	E	E				2,321	SCD	DDF/OMM	DDF	31-Jan-11				Y						28-Aug-09 11-Sep-09	1-2011	8-2010	
399	1/31/2011	Add handrails at Stair 17	CCO 304	A	A				4,841	SCD	DDF/OMM	DDF	31-Jan-11				Y			12/10/10					12-2010	1-2011
400	1/31/2011	IT Modifications	CD 017	IT	IT			IT	480,436	OPS/COM	OPP	OPS	31-Jan-11				Y								1-2011	11-2010
401	1/31/2011	Cable Tray at Computer Room 040P	CD 018	IT	IT			IT	101,921	OPS/COM	OPP	OPS	31-Jan-11				Y								1-2011	11-2010
402	1/31/2011	Delete Painting for Motorized Dampers		M	M	MC 201			(2,700)	ERR/OMM	UFC	OMM	31-Jan-11				Y		10/26/10						10-2010	9-2010
403	1/31/2011	Add aluminum panel to cover beam at	CCO 273	A	A				5,015	ERR/OMM/DDF	DDF	DDF	31-Jan-11				Y			8/20/10		8/25/10			8-2010	1-2011
404	1/31/2011	Supplementary costs for SI 278		M	M	MC 225			14,683	SCD	DDF	DDF	31-Jan-11				Y		12/8/10						12-2010	11-2010
405	1/31/2011	Supplementary costs for CCO 174		M	M	MC 235			1,192	ERR/OMM/DDF	DDF	DDF	31-Jan-11				Y		12/20/10						12-2010	12-2010
406	1/31/2011	Plaza Extension Guards and Handrails	CD 030	A	A				2,343	OPS/COM	DDF/MCD	DDF	31-Jan-11				Y								1-2011	12-2010

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407	1/31/2011	Close Spaced Sprinklers at Level 000	CD 062	M	M				52,127	SCDERR/OMM/DD	DDF/MCD	DDF	31-Jan-11				Y								1-2011	12-2010
408	1/31/2011	Window Sprinkler at Level 100 Loading	CD 066	M	M				8,336	SCDERR/OMM/DD	DDF	DDF	31-Jan-11				Y								1-2011	1-2011
409	1/31/2011	Guards at Projecting Terra Cotta Tiles	CCO 295	A	A				8,958	ERR/OMM/DDF	DDF	DDF	31-Jan-11				Y				12/8/10				12-2010	1-2011
410	1/31/2011	Concrete Landing ar Door 503A	CCO 301	A	A				1,396	SCD	DDF/SCD	SCD	31-Jan-11				Y				12/9/10				12-2010	1-2011
411	1/31/2011	Guard at North Precast Concrete Sill.	CCO 314 CCO	A	A				11,970	SCD	DDF/SCD	SCD	31-Jan-11				Y				1/12/11				1-2011	1-2011
412	1/31/2011	Departmental changes	CCO 119	A	A				38,906	OPS/COM	OPP	OPS	31-Jan-11				Y				3/17/09				3-2009	3-2010
413	1/31/2011	Add fire rated drywal partition and HM	CCO 247R4	A	A				6,801	SCD	DDF	DDF	31-Jan-11				Y				9/13/10				9-2010	9-2010
414	1/31/2011	Backfill of unexcavated areas		C	C	MC 012			41,493	UFC	UFC	UFC	31-Jan-11				Y								1-2011	1-2010
415	3/14/2011	Fire Alarm Monitoring of Heat Tracing	CCO 101R1	E	E				12,564	SCD	SCD	SCD	14-Mar-11				Y				8/19/10	8/25/10			8-2010	2-2011
416	3/14/2011	Revision to Washroom Accessories (124)	CCO 159	A	A				1,123	SCD	SCD	SCD	14-Mar-11				Y				8/14/09				8-2009	9-2009
417	3/14/2011	Flag Pole Base	CCO 162	S	S				3,363	ERR/OMM/DDF	DDF	DDF	14-Mar-11				Y				8/31/09	9/2/09			8-2009	8-2009
418	3/14/2011	Ceramic Tile Base at Rooms 021, 022,	CCO 168	A	A				9,487	OPS/COM	OPP	OPS	14-Mar-11				Y				9/15/09	9/16/09			9-2009	9-2009
419	3/14/2011	Revision to Council Chamber SMT Desk	CCO 180	A	A				4,606	OPS/COM	OPP	OPS	14-Mar-11				Y				11/13/09				11-2009	12-2010
420	3/14/2011	Revised Hardware to meet Security	CCO 183	A	IT			Sec	67,780	OPS/COM	OPP	OPS	14-Mar-11				Y				11/30/09	1/6/10			11-2009	1-1900
421	3/14/2011	Insulation at Roof No. 8	CCO 190	A	A				(1,727)	UFC	UFC	UFC	14-Mar-11				Y				12/6/09	12/9/09			12-2009	3-2011
422	3/14/2011	Gas Main Supply Line Stair-6; Revised Drywall Bulkhead Under	CCO 195	M	M				44,393	ERR/OMM/DDF	DDF	DDF	14-Mar-11				Y				1/5/11	1/6/10			1-2010	1-2011
423	3/14/2011	Modified MIT Boxes - Damper Removal	CCO 202	A	A				1,498	ERR/OMM/DDF	DDF	DDF	14-Mar-11				Y				1/12/10			10/21/08	10-2008	3-2010
424	3/14/2011	Print Room 040S: Relocate Partition	CCO 204	M	M				13,127		DDF	DDF	14-Mar-11				Y				1/22/10				1-2010	2-2010
425	3/14/2011	Hardware Revision - Electric Locks at	CCO 205	A	A				2,309	ERR/OMM/DDF	DDF/ERR	DDF	14-Mar-11				Y				1/26/10				1-2010	11-2009
426	3/14/2011	Access to Civic Square - Path of Egress	CCO 218	A	A				10,269	UFC	DDF	DDF	14-Mar-11				Y				2/25/10			12/14/09	12-2009	3-2010
427	3/14/2011	Revision to doors and hardware on 021C,	CCO 223	A	A				6,975	ERR/OMM/SCD	DDF/MCD	DDF	14-Mar-11				Y				3/5/10				3-2010	3-2010
428	3/14/2011	Accommodate exhaust ducts in print room	CCO 225	A	A				8,366	ERR/OMM/DDF	DDF	DDF	14-Mar-11				Y				3/8/10	6/16/10			3-2010	3-2011
429	3/14/2011	Revised toilet partitions in washrooms	CCO 229	M	M				8,991	ERR/OMM/DDF	DDF/ERR	DDF	14-Mar-11				Y				3/18/10				3-2010	11-2010
430	3/14/2011	Addition of Data Drops 2	CCO 230R1 &	A	A				9,968	OPS/COM	OPP	OPS	14-Mar-11				Y				3/29/10				3-2010	8-2010
431	3/14/2011	Window Closures Ajaent to Stair 16	CCO 236	IT	IT			IT	623	OPS/COM	OPP	OPS	14-Mar-11				Y				3/26/10				3-2010	4-2010
432	3/14/2011	Changes to Reception Millwork	CCO 267	A	A				987	SCD	DDF/MCD	DDF	14-Mar-11				Y				7/30/10				7-2010	1-2011
433	3/14/2011	Delete Millwork item: MW F21	CCO 274	A	A				(5,040)	OPS/COM	OPP	OPS	14-Mar-11				Y				8/26/10				8-2010	1-2011
434	3/14/2011	South Loft - Glass Walls at Atrium/File	CCO 291	A	A				(1,600)	OPS/COM	OPP	OPS	14-Mar-11				Y				9/30/10				9-2010	3-2011
435	3/14/2011	Wall at Pump Room 060A	CCO 297	A	A				6,761	OPS/COM	OPP	OPS	14-Mar-11				Y				12/8/10				12-2010	2-2011
436	3/14/2011	Railings at Council Chamber-North/South	CCO 302	A	A				2,477	SCD	DDF	DDF	14-Mar-11				Y				12/10/10				12-2010	2-2011
437	3/14/2011	Guard at Columns in Multi-purpose room	CCO 303	A	A				7,564	SCD	DDF/SCD	DDF	14-Mar-11				Y				12/10/10				12-2010	1-2011
438	3/14/2011	Guards at Stair 9 & 10, Vest.112	CCO 307 &	A	A				21,138	SCD	DDF/SCD	DDF	14-Mar-11				Y				12/22/10				12-2010	1-2011
439	3/14/2011	Exterior Guards at Stair-18	CCO 309R1	A	A				8,876	SCD	DDF/SCD	DDF	14-Mar-11				Y				1/10/10	1/19/11			1-2010	2-2010
440	3/14/2011	Power and Data Provisions for Meeting	CCO 318	A	A				2,022	SCD	SCD	SCD	14-Mar-11				Y				2/7/11				2-2011	1-2011
441	3/14/2011	LCD Screen at Council Chamber	CD 026	E	IT				15,208	OPS/COM	OPP	OPS	14-Mar-11				Y								3-2011	1-2010
442	3/14/2011	Security Requirements at Doors	CD 029	E	E				5,696	OPS/COM	OPP	OPS	14-Mar-11				Y								3-2011	2-2011
443	3/14/2011	Enclosure above Bilkhead Council Ch +	CD 045.1	A	IT			Sec	1,124	OPS/COM	OPP	OPS	14-Mar-11				Y								3-2011	11-2010
444	3/14/2011	Close Spaced Sprinklers at Level 000	CD 048	A	A				12,778	SCDERR/OMM/DD	DDF	DDF	14-Mar-11				Y								3-2011	11-2010
445	3/14/2011	Guard Revision at Atrium 1	CD 062R1	M	M				4,086	SCDERR/OMM/DD	DDF/SCD	DDF	14-Mar-11				Y								3-2011	2-2011
446	3/14/2011	Guard Revision at Atrium 1	CD 079	A	A				3,960	SCDERR/OMM/DD	SCD	SCD	14-Mar-11				Y								3-2011	1-2011



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447	3/14/2011	Closure Plate at Level 000 Air Intake	CD 086	A	A				2,514	SCD	SCD	SCD	14-Mar-11				Y								3-2011	1-2011
448	4/11/2011	Wood Paneling Color at Mayor's Office	SI 291	A	A				1,877	OPS/COM	OPP	OPS	11-Apr-11				Y			11/22/10					11-2010	1-2011
449	4/11/2011	Vanity in Mayor's WC 407	SI 300	A	A				920	ERR/OMM/DDFOR	OPP	OPS	11-Apr-11				Y			12/14/10					12-2010	1-2011
450	4/11/2011	Closet Details in City Manager's Office	SI 309	A	A				2,743	ERR/OMM/DDF	OPP	OPS	11-Apr-11				Y			1/14/11					1-2011	2-2011
451	4/11/2011	Kitchen Duct Routing	CCO 105R1.1,	M	M				2,352	ERR/OMM/DDF	DDF	DDF	11-Apr-11				Y				9/18/09	2/4/09			2-2009	11-2010
452	4/11/2011	Add Window Sprinklers as per OBC	CCO 146, CCO	A	A				3,024	SCD	DDF/SCD	SCD	11-Apr-11				Y				6/30/09				6-2009	9-2009
453	4/11/2011	Add Door Operators (OBC) - Hardware	CCO 151R2.1	A	A				1,996	SCD	DDF	SCD	11-Apr-11				Y				8-Aug-09 11-Sep-09				4-2011	11-2010
454	4/11/2011	Concrete Fire Dept. Connections Support	CCO 207	M	M				9,896	ERR/OMM/DDF	DDF	DDF	11-Apr-11				Y				1/25/10				1-2010	2-2010
455	4/11/2011	Add steel guard to mechanical shaft	CCO 210	A	A				8,055	ERR/OMM/DDF	SCD	DDF	11-Apr-11				Y				2/2/10	2/3/10			2-2010	2-2010
456	4/11/2011	Add Shaft-wall partition at Stair 2 & Stair 3	CCO 226.1	A	A				6,308	SCD	DDF/MCD	DDF	11-Apr-11				Y				3/8/10				3-2010	1-1900
457	4/11/2011	Cove for Lighting at Ceiling - Room 039K	CCO 234	A	A				3,629	ERR/OMM/DDF	DDF	DDF	11-Apr-11				Y				3/26/10				3-2010	11-2010
458	4/11/2011	Stair 7: Shorten Handrails at Landings	CCO 278	A	A				1,834	SCD	DDF	DDF	11-Apr-11				Y				9/3/10				9-2010	3-2011
459	4/11/2011	Carma Energy Pods	CCO 279	E	E				11,737	CONTRACTOR	DDF	DDF	11-Apr-11				Y				12/8/10				12-2010	1-2011
460	4/11/2011	Electric Strike at Door 485	CCO 299	E	E				655	SCDERR/OMM/DD	SCD	SCD	11-Apr-11				Y				12/8/10				12-2010	12-2010
461	4/11/2011	Add handrails at Stair 17	CCO 304.1	A	A				987	SCD	DDF	DDF	11-Apr-11				Y				12/10/10				12-2010	12-2010
462	4/11/2011	Drywall Bulkhead at M-P Room Entry	CCO 310	A	A				3,830	ERR/OMM/DDF	DDF	DDF	11-Apr-11				Y				12/23/10	1/5/11			12-2010	3-2011
463	4/11/2011	Hardware Revision to Committee Room,	CCO 319, 322,	A	A				1,581	ERR/OMM/DDF	DDF	DDF	11-Apr-11				Y				2/7/11				2-2011	2-2011
464	4/11/2011	Dry Heads at Vestibules 105 & 106	CCO 325	M	M				6,363	UFC	OPP/DDF	DDF	11-Apr-11				Y				3/9/11	3/9/11			3-2011	3-2011
465	4/11/2011	Dry Sprinklers at Computer Room	CD 051	M	M				13,554	SCDERR/OMM/DD	DDF	DDF	11-Apr-11				Y								4-2011	12-2010
466	4/11/2011	Delete Light Fixture - NW Landscape Wall	CD 087	E	E				6,128	SCD	DDF	DDF	11-Apr-11				Y								4-2011	3-2011
467	4/11/2011	Delete Saw-Cuts at Stone Panels	CD 096	A	A				350	ERR/OMM/DDF	DDF	DDF	11-Apr-11				Y								4-2011	3-2011
468	4/11/2011	Handicapped Door Operators at Level 000	CD 099	E	E				5,587	OPS/COM	OPP	OPS	11-Apr-11				Y								4-2011	3-2011
469	4/11/2011	Kitchenette Hot Water Heaters Power	CD 100	M	M				1,000	ERR/OMM/DDF	DDF	DDF	11-Apr-11				Y								4-2011	3-2011
470	4/11/2011	Mechanical Revisions at Multi Purpose	CD 103	M	M				1,441	OPS/COM	OPP	OPS	11-Apr-11				Y								4-2011	3-2011
471	4/27/2011	Structural Coordination at Room 293, 393	SI 086	A	A				2,451	ERR/OMM/DDF	DDF	DDF	27-Apr-11				Y			1/22/08					1-2008	2-2008
472	4/27/2011	Relocation of A/V and GFCI receptacles in	SI 274	AV	IT			A/V	3,498	ERR/OMM/DDF	DDF	DDF	27-Apr-11				Y			9/2/10					9-2010	2-2011
473	4/27/2011	CO Detection System at Level 000	SI 239	E	E				23,806	CONTRACTORERR	DDF	DDF	27-Apr-11				Y				2/23/10				2-2010	8-2010
474	4/27/2011	Diesel Pump Wiring (response to RFI)	SI 253	E	E				1,073	CONTRACTORERR	DDF	DDF	27-Apr-11				Y				5/13/10				5-2010	6-2010
475	4/27/2011	Revised Concrete Base Support at	CCO 181	A	A				6,933	UFC	DDF	DDF	27-Apr-11				Y				11/16/09	12/9/09			11-2009	12-2009
476	4/27/2011	Added Electrical - City Manager	CCO 219	E	E				3,959	OPS/COM	OPP	OPS	27-Apr-11				Y				2/26/10				2-2010	3-2010
477	4/27/2011	Revisions to landscape irrigation at NW	CCO 243	A	A				145	ERR/OMM/DDF	DDF	DDF	27-Apr-11				Y				4/23/10				4-2010	9-2010
478	4/27/2011	Reinforcement at Stair No. 2 Nib Wall	CCO 245	A	A				14,026	ERR/OMM	DDF/UFC	DDF	27-Apr-11				Y				5/3/10				5-2010	5-2010
479	4/27/2011	A/V Revisions at Chapel and Meeting	CCO 249	AV	IT			A/V	13,635	OPS/COM	OPP	OPS	27-Apr-11				Y				5/13/10				5-2010	4-2011
480	4/27/2011	Revision to Green Roof and Ground Floor	CCO 263	A	A				121,892	ERR/OMM/DDFOR	OPP	OPS	27-Apr-11				Y				7/1/10				7-2010	7-2010
481	4/27/2011	Delete Terra Cotta Cladding from Mayor's	CCO 268	A	A				(838)	ERR/OMM/DDF	OPP	OPS	27-Apr-11				Y				8/6/10				8-2010	8-2010
482	4/27/2011	Stone Deletion at Rec Program Room 161	CCO 280	A	A				976	ERR/OMM	DDF	DDF	27-Apr-11				Y				9/6/10				9-2010	9-2010
483	4/27/2011	Replace Hinges at Committee Room	CCO 290	A	A				6,119	ERR/OMM/DDF	DDF	DDF	27-Apr-11				Y				9/29/10				9-2010	1-2011
484	4/27/2011	Electronic Faucets	CCO 320	M	M				3,540	ERR/OMM/DDF	DDF	DDF	27-Apr-11				Y				2/15/11				2-2011	4-2011
485	4/27/2011	Projector Power and A/V at Council	CD 019R1	AV	IT			A/V	9,645	OPS/COM	OPP/AY	OPS	27-Apr-11				Y								4-2011	11-2010
486	4/27/2011	Council Chamber Speaker Recess	CD 020	AV	A				4,391	OPS/COM	OPP/AY	OPS	27-Apr-11				Y								4-2011	4-2011

APPENDIX A

CO	CO Date	Description	CCO/CD No.	Cons.	JO Disc	GC #	COP	AV-Sec-It	TOTAL	A/E Type	City Type	Audit Type	Issue Date	Date Appr'd by KPMB	Date Appr'd by City	Date Signed by Maystar	Quote Included?	Quote appr by A/E?	MCC Value	SI Value	CCO Value	CD value	MM Dates	RFI Date	ID MONTH	QUOTE MONTH
487	4/27/2011	Additional Data Drops	CD 028	IT	IT			IT	20,858	OPS/COM	OPP	OPS	27-Apr-11				Y								4-2011	9-2010
488	4/27/2011	Electrical Changes at Computing Room	CD 034R2	IT	IT				44,307	OPS/COM	OPP	OPS	27-Apr-11				Y								4-2011	4-2011
489	4/27/2011	Fuse Changes to Suit Motor Horsepower	CD 035	M	M				29,082	CONTRACTOR	DDF	DDF	27-Apr-11				Y								4-2011	11-2010
490	4/27/2011	Power and Data for LCD Screens	CD 036	AV	IT			IT	14,858	ERR/OMM/DDF	DDF	DDF	27-Apr-11				Y								4-2011	11-2010
491	4/27/2011	Glass Doors 240A + 240G: Reduce Height	CD 039	A	A				6,019	CONTRACTORERR	DDF	DDF	27-Apr-11				Y								4-2011	11-2010
492	4/27/2011	Revision to Stair No. 7 Guards	CD 059	A	A				3,107	SCDERR/OMM/DDF	DDF	DDF	27-Apr-11				Y								4-2011	3-2011
493	4/27/2011	Doors Requiring Rating	CD 064R1	A	A				4,862	SCDERR/OMM/DDF/SCD	DDF/SCD	DDF	27-Apr-11				Y								4-2011	2-2011
494	4/27/2011	Light Sensor Elevations	CD 067	E	E				955	UFC	UFC	UFC	27-Apr-11				Y								4-2011	12-2010
495	4/27/2011	Headroom Protection at Stair No. 4 + Stair	CD 076	A	A				3,998	SCDERR/OMM/DDF/MCD	DDF/MCD	DDF	27-Apr-11				Y								4-2011	1-2011
496	4/27/2011	Heat Tracing at Level 000 Window	CD 077	A	A				14,326	ERR/OMM/DDF	DDF	DDF	27-Apr-11				Y								4-2011	2-2011
497	4/27/2011	Smoke Detectors and Pull Stations	CD 080R1	E	E				76,348	SCDERR/OMM/DDF/SCD	DDF/SCD	DDF	27-Apr-11				Y								4-2011	4-2011
498	4/27/2011	A/V Room Relocation (Mechanical +)	CD 081R3.1	AV	IT			A/V	52,545	OPS/COMERR/OM	DDF	DDF	27-Apr-11				Y								4-2011	1-2011
499	4/27/2011	Power for Finbar Heat Tracing at Stair 6	CD 084	E	E				9,518	OPS/COMERR/OM	DDF	DDF	27-Apr-11				Y								4-2011	1-2011
500	4/27/2011	Power and Data Drops for Printers	CD 090	IT	IT			IT	6,560	OPS/COM	OPP	OPS	27-Apr-11				Y								4-2011	4-2011
501	4/27/2011	Doors at Vestibules 105, 106 and 112	CD 091	A	A				13,989	ERR/OMM/DDF	OPP/SCD	DDF	27-Apr-11				Y								4-2011	2-2011
502	4/27/2011	Step Light Required in Council Chamber-	CD 095	A	A				1,431	SCD	SCD	SCD	27-Apr-11				Y								4-2011	3-2011
503	4/27/2011	Receptacles at Corridor 117	CD 101.1	E	E				7,257	OPS/COM	OPP	OPS	27-Apr-11				Y								4-2011	4-2011
504	4/27/2011	Add 2 additional data drops to		IT	IT	MC 239		IT	1,686		OPP	OPS	27-Apr-11				Y		1/4/11				9/13/10		9-2010	12-2010
505	4/27/2011	Firestopping for work performed under		A	A	MC173			1,704		DDF	DDF	27-Apr-11				Y								4-2011	6-2010
506	4/27/2011	Supplementary costs to CCO 194		A	A	MC 186			1,347		DDF	DDF	27-Apr-11				Y								4-2011	5-2010
507	4/27/2011	Revised electrical locations to suit office		E	E	MC 270			2,557		OPP	OPS	27-Apr-11				Y		2/22/11						2-2011	2-2011
508	4/29/2011	Roof Membrane	CCO 041	A	A				169,488	OPS/COM	OPP	OPS	29-Apr-11				Y				11/20/08		2/6/08		2-2008	4-2011
509	4/29/2011	SEF 1 & 2 Support Frames (RFI 680)	CCO 048R1	M	M				100,975	ERR/OMM/DDF	DDF	DDF	29-Apr-11				Y				7/21/09		6/22/09		6-2009	10-2009
510	4/29/2011	Fan Coil Unit Locations in Stairs	CCO 108R1	M	M				5,256	ERR/OMM/DDF	DDF	DDF	29-Apr-11				Y				3/30/09				3-2009	8-2010
511	4/29/2011	Del. 2 Glazed Screens - Bldg Control	CCO 130	A	A				2,373	ERR/OMM	DDF/MCD	DDF	29-Apr-11				Y				5/1/09		9/2/09		5-2009	9-2009
512	4/29/2011	Lvl 000- Change Rms - Sloped floor to	CCO 137	A	A				10,298	CONTRACTORERR	DDF	DDF	29-Apr-11				Y				5/26/09				5-2009	4-2010
513	4/29/2011	Add handrails as per OBC compliance	CCO 143	A	A				14,243	SCD	DDF/MCD	DDF	29-Apr-11				Y				6/18/09				6-2009	1-2011
514	4/29/2011	Water feature Slab Edge & Pier Locations	CCO 155	A	A				38,237	ERR/OMM/DDF	DDF	DDF	29-Apr-11				Y				7/29/09				7-2009	3-2010
515	4/29/2011	Revised Ceiling Height: Hallway 009	CCO 156	A	A				27,219	ERR/OMM/DDF	DDF	DDF	29-Apr-11				Y				8/4/09				8-2009	3-2010
516	4/29/2011	Daycare	CCO 160.7	A	A				191,594	OPS/COM	OPP	OPS	29-Apr-11				Y				10/20/10				10-2010	11-2010
517	4/29/2011	Relocation of door 040M and Add auto	CCO 163	A	A				13,921	UFC	DDF	DDF	29-Apr-11				Y				9/4/09				9-2009	9-2009
518	4/29/2011	West Edge of Civic Square Entry Ramp	CCO 196	A	A				449,687	OPS/COM	DDF	DDF	29-Apr-11				Y				12/21/09				12-2009	1-1900
519	4/29/2011	Temporary Path at West Parking	CCO 216	A	A				9,446	OPS/COM	OPP	OPS	29-Apr-11				Y				2/23/10				2-2010	3-2010
520	4/29/2011	Millwork Revisions	CCO 239	A	A				7,082	OPS/COM	DDF	DDF	29-Apr-11				Y				3/30/10				3-2010	12-2010
521	4/29/2011	Electrical Feed Revisions in Response to	CCO 260	A	A				2,915	ERR/OMM/DDF	DDF	DDF	29-Apr-11				Y				6/22/10		9/29/09		9-2009	7-2010
522	4/29/2011	Revision to Green Roof and Ground Floor	CCO 263R1	A	A				7,988	ERR/OMM/DDF	OPP	DDF	29-Apr-11				Y				9/14/10				9-2010	4-2011
523	4/29/2011	Revised partition locations in Mayor's	CCO 265R1	A	A				7,768	OPS/COM	OPP	OPS	29-Apr-11				Y				9/14/10				9-2010	9-2010
524	4/29/2011	Door and Partition Revisions to 140C	CCO 292	A	A				4,794	ERR/OMM/DDF	ERR	ERR	29-Apr-11				Y				10/1/10				10-2010	10-2010
525	4/29/2011	Add steel guards at stair 6	CCO 305	A	A				7,640	SCD	DDF/MCD	DDF	29-Apr-11				Y				12/10/10				12-2010	1-2010
526	4/29/2011	Kitchen Equipment Layout for M&E	SI 235	M	M				1,210	ERR/OMM	UFC	OMM	29-Apr-11				Y		2/10/10						2-2010	3-2011
527	4/29/2011	Roof No. 10	CD 011	A	A				(296)	UFC	DDF	DDF	29-Apr-11				Y								4-2011	3-2011

APPENDIX A

CO	CO Date	Description	CCO/CD No.	Cons.	JO Disc	GC #	COP	AV-Sec-It	TOTAL	A/E Type	City Type	Audit Type	Issue Date	Date Appr'd by KPMB	Date Appr'd by City	Date Signed by Maystar	Quote Included?	Quote appr by A/E?	MCC Value	SI Value	CCO Value	CD value	MM Dates	RFI Date	ID MONTH	QUOTE MONTH
528	4/29/2011	Glass Screens at Stair 8 Level 100	CD 033	A	A				3,678	ERR/OMM/DDF	DDF	DDF	29-Apr-11				Y								4-2011	2-2011
529	4/29/2011	Voice Data Box for Chubb Security	CD 074	AV	IT			Sec	3,152	OPS/COM	OPP	OPS	29-Apr-11				Y								4-2011	12-2010
530	4/29/2011	Add Rated HM Doors to CORR 197.	CD 53R1	A	A				5,890	SCDERR/OMM/DDF	DDF/SCD	DDF	29-Apr-11				Y								4-2011	12-2010
531	4/29/2011	A/V Room Relocation	CD 081	AV	IT			A/V	58,068	OPS/COM	DDF/ERR	DDF	29-Apr-11				Y								4-2011	12-2010
532	4/29/2011	Projector Cabinets in Council Chamber	CD 032	AV	E				1,312	OPS/COM	OPP/UFC	OPS	29-Apr-11				Y								4-2011	11-2010
533	4/29/2011	Voice Data for Courtesy Phone	CD 050	E	E				3,656	OPS/COM		OPS	29-Apr-11				Y								4-2011	12-2010
534	4/29/2011	Power for Printers	CD 060	E	E				3,133	OPS/COM		OPS	29-Apr-11				Y								4-2011	12-2010
535	4/29/2011	Dropped Bulkhead to enclosure ductwork		M	M	MC 228			2,182			DDF	29-Apr-11				Y								4-2011	1-1900
536	4/29/2011	Revised Reception Area at Archives	CCO 206R2	A	A				7,492	OPS/COM		OPS	29-Apr-11				Y				3/8/10				3-2010	1-1900
537	4/29/2011	Mechanical at Cafe Kitchen (Electrical)	CCO 262 R2	E	E				24,037	ERR/OMM/DDF		DDF	29-Apr-11				Y				1/12/11				1-2011	2-2011
538	4/29/2011	Level 000 Vestibule Transfer Fans	CCO 287	M	M				11,769	ERR/OMM/DDF		DDF	29-Apr-11				Y				9/27/10				9-2010	9-2010
539	4/29/2011	Day Tank Float	CCO 330	M	M				7,511	SCD		SCD	29-Apr-11				Y				3/31/11		3/9/11		3-2011	4-2011
540	4/29/2011	Fuse Requirements for AHU-1 and AHU-2	CD 024	E	E				4,445	ERR/OMM/DDF		DDF	29-Apr-11				Y								4-2011	11-2010
541	4/29/2011	Fuel Pump Control	CD 071	M	M				6,010	SCDERR/OMM/DDF		DDF	29-Apr-11				Y								4-2011	12-2010
542	4/29/2011	Voice Data Box at Storage 132G	CD 072	E	E				2,254	OPS/COM		OPS	29-Apr-11				Y								4-2011	12-2010
543	4/29/2011	Monitoring of Heat Tracing at L000	CD 093	E	E				4,116	ERR/OMM/DDF		DDF	29-Apr-11				Y								4-2011	2-2011
									18,156,815			0														

# **APPENDIX B**

## **Unallowable Markup on 2nd Tier Subcontractors**

APPENDIX B - OHP on 2nd Tier Subcontractors

CO	Credit Amount	Extra Amount	Subcontractor	Multi-tier sub before fee	Allowable 15% fee on Multi-tier sub	Multi tier-sub with fee included, no additional fee allowed	Subtotal Multi-tier subs
37		6,863	Pipe All -GD Sheetmetal \$4666	4,666.00	699.90		5,366
38		1,404	Pipe All - GD Sheet Metal \$659.96	659.96	98.99		759
63		6,189	Pipe All - Wilkinson \$4860		-	4,860	4,860
75		240,353	Pipe All - G & R Fire \$210449 + <\$21698>		-	188,751.00	188,751
79		52,031	Pipe All - G & R \$40860		-	40,860.00	40,860
80		53,173	Pipe All - G & R \$41757.30		-	41,757.30	41,757
81		28,415	Pipe All - D & D \$23139; GD Sheet Metal <\$824.49>		-	22,314.51	22,315
85		50,545	Pipe All - GD Sheet Metal \$17102.63 + \$18516.20	35,618.83	5,342.82		40,962
86		6,604	Pipe All - GD Sheet Metal \$4269.64	4,269.64	640.45		4,910
88		36,187	Pipe All - GD Sheet Metal \$24604.10	24,604.10	3,690.62		28,295
93		12,435	Pipe All - GD Sheet Metal \$8454.64	8,454.64	1,268.20		9,723
96		12,601	Pipe All - G & R Fire \$1512		-	1,512.00	1,512
102		9,578	Pipe All - D & D \$1001.91		-	1,001.91	1,002
104		14,863	Pipe All - GD Sheet Metal \$9369.43	9,369.43	1,405.41		10,775
105		94,963	Pipe All - GD Sheet Metal \$24728.29	24,278.29	3,641.74		27,920
106		31,203	Pipe All - GD Sheet Metal \$19385.37	19,385.37	2,907.81		22,293
107		58,529	Pipe All - GD Sheet Metal \$36134.29	36,134.29	5,420.14		41,554
108		30,649	Pipe All - GD Sheet Metal \$19008.40	19,008.40	2,851.26		21,860
109		1,898	Pipe All - G & R Fire \$1490.40		-	1,490.40	1,490
122		42,943	Pipe All - Johnson Controls sub of GD Sheet Metal \$3430	3,430.00	514.50		3,945
124		17,744	Pipe All - G & R Fire \$13934.16		-	13,934.16	13,934
125		32,015	Pipe All - GD Sheet Metal \$21767.82	21,767.82	3,265.17		25,033
126		72,577	Pipe All - GD Sheet Metal \$32951.50	32,951.50	4,942.73		37,894
127		90,471	Pipe All - GD Sheet Metal \$61512.79	61,512.79	9,226.92		70,740
128		42,497	Pipe All - GD Sheet Metal \$12932.39	12,932.39	1,939.86		14,872
129		3,429	Pipe All - G & R Fire \$2251.80		-	2,251.80	2,252
135		44,672	Pipe All - GD Sheet Metal \$3969	26,460.00	3,969.00		30,429
141		30,771	Pipe All - GD Sheet Metal \$112.50	750.00	112.50		863
152		32,783	Pipe All - G & R Fire \$680.94	680.94	102.14		783
162		33,292	Pipe All - D & D \$401.76		-	401.76	402
163		77,239	Pipe All - GD Sheet Metal \$14674.98; D & D \$28184.40; G & R \$7580	14,674.98	2,201.25	35,764.40	52,641
171		30,257	Pipe All - GD Sheet Metal \$20572.38	20,572.38	3,085.86		23,658
174		461,166	Pipe All - GD Sheet Metal \$142065.27; G & R Fire \$41121	142,065.27	21,309.79	41,121.00	204,496
176		14,513	Pipe All - GD Sheet Metal \$9499.68	9,499.68	1,424.95		10,925
178		20,876	Pipe All - Engineered Air \$15180		-	15,180.00	15,180
195		12,149	Pipe All - GD Sheet Metal \$7892.46	7,892.46	1,183.87		9,076
197		118,474	Pipe All - GD Sheet Metal \$79522.29	79,522.29	11,928.34		91,451
204		5,749	Pipe All - G & R Fire \$12997 + <\$8482>		-	4,515.00	4,515
206		26,819	Pipe All - GD Sheet Metal \$17793	17,793.00	2,668.95		20,462
207		28,827	Pipe All - GD Sheet Metal \$15939.54	15,939.54	2,390.93		18,330
209		7,490	Pipe All - G & R Fire \$2130.48		-	2,130.48	2,130

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211		44,500	Pipe All - GD Sheet Metal \$11680.74; G & R Fire \$18904.31	11,680.74	1,752.11	18,904.31	32,337
213		4,559	Pipe All - GD Sheet Metal \$3099.75	3,099.75	464.96		3,565
222		32,040	Pipe All - GD Sheet Metal \$13307; D & D \$8771.70	13,307.00	1,996.05	8,771.70	24,075
232		68,823	Pipe All - GD Sheet Metal \$4800	4,800.00	720.00		5,520
235		20,859	Pipe All - G & R Fire \$11976 + <5718>		-	6,258.00	6,258
246		67,217	Pipe All - Johnson Controls sub of GD Sheet Metal \$9760; G & R Fire \$35488 + <5865>; D & D \$7948		-	47,331.00	47,331
248		21,544	Pipe All - G & R Fire \$16159		-	16,159.00	16,159
254		4,734	Pipe All - GD Sheet Metal \$2807.58	2,807.58	421.14		3,229
255		2,249	Pipe All - GD Sheet Metal \$1282.56	1,282.56	192.38		1,475
256		1,643	Pipe All - G & R Fire \$1005		-	1,005.00	1,005
278		17,084	Pipe All - GD Sheet Metal \$7505.06	7,505.06	1,125.76		8,631
280		14,555	Pipe All - G & R Fire \$10290		-	10,290.00	10,290
281		108,043	Pipe All - GD Sheet Metal \$31785.65 + \$35304.16	67,089.81	10,063.47		77,153
282		63,536	Pipe All - G & R Fire \$244210 + <196015>		-	48,195.00	48,195
286		34,304	Pipe All - G & R Fire \$16230.48		-	16,230.48	16,230
287		18,582	Pipe All - G & R Fire \$9586		-	9,586.00	9,586
290		1,945	Pipe All - GD Sheet Metal \$756	756.00	113.40		869
291		3,532	Pipe All - GD Sheet Metal \$2180.75	2,180.75	327.11		2,508
292		33,130	Pipe All - GD Sheet Metal \$2775.60	2,775.60	416.34		3,192
294		84,163	Pipe All - GD Sheet Metal \$17013.25	17,013.25	2,551.99		19,565
295		15,427	Pipe All - G & R Fire \$3026		-	3,026.00	3,026
297		14,394	Pipe All - GD Sheet Metal \$6825.55	6,825.55	1,023.83		7,849
299		122,926	Pipe All - G & R Fire \$94255		-	94,255.00	94,255
315		166,960	Pipe All - GD Sheet Metal \$16681.83; D & D \$11607	16,681.83	2,502.27	11,607.00	30,791
324		8,547	Pipe All - D & D \$18429 + <12097>		-	6,332.00	6,332
332		22,216	Pipe All - G & R Fire \$16591		-	16,591.00	16,591
333		52,814	Pipe All - GD Sheet Metal \$33614	33,614	5,042.15		38,656
334		33,763	Pipe All - G & R Fire \$25564		-	25,564.00	25,564
336		17,074	Pipe All - GD Sheet Metal \$4812	4,812.10	721.82		5,534
351		3,907	Pipe All - GD Sheet Metal \$2436	2,436.00	365.40		2,801
352		16,154	Pipe All - G & R Fire \$12116		-	12,116.00	12,116
371		8,884	Pipe All - G & R Fire \$11041 + <\$5204>		-	5,837.00	5,837
375		68,349	Pipe All - G & R Fire \$9160		-	9,160.00	9,160
381		11,581	Pipe All - G & R Fire \$14789 + <\$7594>		-	7,195.00	7,195
384		8,495	Pipe All - GD Sheet Metal \$2945	2,945.00	441.75		3,387
386		8,325	Pipe All - GD Sheet Metal \$5660 (says Johnson Controls, but no JC back up)	5,660.00	849.00		6,509
390		5,327	Pipe All - GD Sheet Metal \$2532.26	2,532.26	379.84		2,912
391		10,333	Pipe All - GD Sheet Metal \$6162.13	6,162.13	924.32		7,086
392		1,285	Pipe All - GD Sheet Metal \$529.10	529.10	79.37		608
393		14,071	Pipe All - G & R Fire \$10290		-	10,290.00	10,290
396		1,560	Pipe All - GD Sheet Metal \$647.76	647.76	97.16		745
397		12,398	Pipe All - GD Sheet Metal \$1317.24	1,317.24	197.59		1,515

APPENDIX B - OHP on 2nd Tier Subcontractors

CO	Credit Amount	Extra Amount	Subcontractor	Multi-tier sub before fee	Allowable 15% fee on Multi-tier sub	Multi tier-sub with fee included, no additional fee allowed	Subtotal Multi-tier subs
404		14,683	Pipe All - GD Sheet Metal \$4680; D & D \$5650	4,680.00	702.00	5,650.00	11,032
405		1,192	Pipe All - GD Sheet Metal \$756; G & R Fire \$1463.75	756.00	113.40	1,463.75	2,333
407		52,127	Pipe All - G & R Fire \$39796		-	39,796.00	39,796
408		8,336	Pipe All - G & R Fire \$5976		-	5,976.00	5,976
424		13,127	Pipe All - GD Sheet Metal \$8925	8,925.00	1,338.75		10,264
464		6,363	Pipe All - G & R Fire \$4997		-	4,997.00	4,997
473		23,806	Pipe All - GD Sheet Metal \$23695.15 + <\$5000> (says per Johnson Controls quote, but no JC back up)	18,695.16	2,804.27		21,499
478		14,026	Pipe All - GD Sheet Metal \$1800.67	1,800.67	270.10		2,071
496		14,326	Pipe All - D & D \$2226.75		-	2,226.75	2,227
498		52,545	Pipe All - Aquanorth \$15000		-	15,000.00	15,000
499		9,518	Pipe All - GD Sheet Metal \$530; D & D \$1233.50	530.00	79.50	1,233.50	1,843
505		1,704	Pipe All - D & D \$1338		-	1,338.00	1,338
509		100,975	Pipe All - GD Sheet Metal \$10008	10,008.00	1,501.20		11,509
515		27,219	Pipe All - G & R Fire \$5764		-	5,764.00	5,764
517		13,921	Pipe All - GD Sheet Metal \$900	900.00	135.00		1,035
523		7,768	Pipe All - GD Sheet Metal \$1800; G & R Fire \$347	1,800.00	270.00	347.00	2,417
537		24,037	Pipe All - GD Sheet Metal \$4300 (says per Johnson Controls quote, but no JC back up)	4,300.00	645.00		4,945
539		7,511	Pipe All - GD Sheet Metal \$1220	1,220.00	183.00		1,403

1,952,357

# **APPENDIX C**

## **Subcontractor OHP applied to quotes already including OHP**



APPENDIX C - OHP applied to quotes w/ OHP already included

CO	Credit Amount	Extra Amount	Subcontractor Quote, fee included but additional fee added on CO	Total Amount
26		1,334	Concrete \$120.40	120
27		39,338	Pro Caissons \$4205	4,205
54		9,810	North York \$5868.67	5,869
55		179,957	North York \$134170.50; Enviroway Waste \$1120.70; Sherway Excavation \$1230	136,521
77		56,049	Vixman \$1765	1,765
152		32,783	Concrete \$2017.56	2,018
154		12,186	Concrete \$1720	1,720
183		136,127	Allmar \$18391.14 + \$51729.29 + \$36781.38	106,902
184		8,939	Basic Industries \$7020	7,020
189		15,929	Lynx \$535	535
219		19,782	Platinum \$1680	1,680
220		56,666	Lynx \$44500	44,500
229		27,641	Allmar \$4537.64 + 1508.76; Stefcon \$1900; Core Metals \$3350.76	11,297
230		13,008	Nelmar \$10215.19	10,215
231		7,298	CIC Irrig \$580	580
232		68,823	Platinum Painting \$300	300
236		93,488	Allmar \$73416.82	73,417
237		112,541	Allmar \$72500 + <\$2636>; Lynx \$7240	77,104
247		5,150	Stefcon \$1564	1,564
250		10,187	D & D \$8000	8,000
252		31,201	Ritz \$24502	24,502
265		14,500	Pro-Bel \$11387	11,387
267		716	Nelmar \$562.47	562
268		7,912	Allmar \$6212.96	6,213
271		6,734	Core Metal \$5288.32	5,288
273		120,590	Kapp \$94700	94,700
283		45,513	Basic Industries \$39405	39,405
286		34,304	Allmar \$450	450
289		18,120	Aquanorth \$275	275
295		15,427	Platinum \$680	680
296		3,542	Platinum \$600	600
313		10,606	Lynx \$1930	1,930
320		5,060	Nelmar \$3973.31	3,973
321		2,090	Nelmar \$1641.56	1,642
325		4,646	Const. Spec \$3648.48	3,648
326		11,257	Commercial Vision \$8840	8,840
328		1,117	Allwood \$877	877
329		6,723	Lynx \$5280	5,280
330		2,124	Lynx \$1668	1,668
331		5,125	Lynx \$4025	4,025
337		13,141	Italinteriors \$10320	10,320
340		37,382	Platinum \$16580; Inter Co \$7280	23,860
343		1,519	D & D 1193	1,193
344		771,622	Lynx \$605960	605,960
345		258,414	Lynx \$202934.68	202,935
346		1,072	Allmar \$841.50	842
347		3,330	Allmar \$2614.80	2,615
353		9,436	Italinteriors \$7410	7,410
356		4,267	Allmar \$3350.67	3,351
357		1,867	Allmar \$1466.26	1,466
358		923	GRB Storage \$725	725
361		8,567	Graff \$2790	2,790
362	8,517		TMT <\$8912>; Platinum \$310	310
366		3,964	Platinum \$360; Allmar \$397.15	757
368		1,993	Muia Steel \$1565	1,565
372		2,564	Platinum \$450	450
379		2,407	Lynx \$1890	1,890
384		8,495	Triumph \$850	850
385		8,781	CIC \$393.61	394
398		2,321	Allmar \$414.22 + \$864.34 + \$544.50	1,823
399		4,841	Muia Steel \$3802	3,802

APPENDIX C - OHP applied to quotes w/ OHP already included

CO	Credit Amount	Extra Amount	Subcontractor Quote, fee included but additional fee added on CO	Total Amount
411		11,970	Muia Steel \$1220 + \$2510 + \$2380 + \$3290	9,400
412		38,906	Allmar \$1534.52 + \$2332; Platinum \$2200	6,067
413		6,801	Platinum \$350; Allmar \$588.50 + \$2184.13 + \$174.73	3,297
416		1,123	Inter-Co \$300	300
417		3,363	Core \$1905	1,905
420		67,780	Allmar \$37957.91 + \$11770; Trescon \$3500	53,228
423		1,498	Platinum \$210	210
425		2,309	Platinum \$160	160
426		10,269	Allmar \$5240.58 + \$2174.04; Trescon \$650	8,065
427		6,975	Graff \$1800; Muia Steel \$1250	3,050
428		8,366	Trescon \$300; Allmar \$6269.56	6,570
429		8,991	Platinum \$930	930
430		9,968	Allmar \$7526.17 + \$302.10	7,828
431		623	Lynx \$489	489
436		2,477	Stefcon \$1945	1,945
437		7,564	GP Custom \$5940	5,940
438		21,138	GP Custom \$7200; Muia \$9400	16,600
439		8,876	GP Custom \$5900; Platinum \$1070	6,970
441		15,208	Lynx \$4410	4,410
444		12,778	Platinum \$1680; Tower Scaffold \$5254	6,934
446		3,960	Platinum \$550; GP Custom \$2560	3,110
447		2,514	Muia \$1974	1,974
452		3,024	Allmar \$1413.72 + \$392.82	1,807
455		8,055	Platinum \$410; Core \$5915.85	6,326
456		6,308	Tower Scaffold \$4954	4,954
458		1,834	Muia Steel \$1440	1,440
460		655	Allmar \$514.17	514
461		987	Graff \$775	775
462		3,830	Platinum \$450	450
463		1,581	Allmar \$165.59 + \$551; Trescon \$225 + \$300	1,242
465		13,554	Platinum \$580	580
466		6,128	D & D \$1983.75; Platinum \$290	2,274
467		350	Allmar \$74.98; Trescon \$200	275
468		5,587	Platinum \$160	160
477		145	CIC \$114	114
478		14,026	Phoenix Steel \$1607	1,607
479		13,635	Lynx \$662	662
480		121,892	CIC \$98630.24	98,630
481	838		Platinum \$260	260
483		6,119	Trescon \$450; Allmar \$3282.84	3,733
487		20,858	Lynx \$16380	16,380
490		14,858	Lynx \$1324	1,324
491		6,019	Allmar \$4726.70	4,727
492		3,107	GP Custom \$2120; Platinum \$320	2,440
493		4,862	Trescon \$150; Platinum \$580; Allmar \$275	1,005
495		3,998	Platinum \$580 ; GC Custom \$2560	3,140
499		9,518	Platinum \$290	290
501		13,989	Allmar \$2737	2,737
504		1,686	Lynx \$1324	1,324
511		2,373	Stefcon \$1120	1,120
513		14,243	Muia Steel \$9380; Platinum \$1805	11,185
515		27,219	Platinum \$870	870
516		191,594	Allmar \$32287.10	32,287
517		13,921	Platinum \$290; Allmar \$5015	5,305
518		449,687	Stefcon \$69180; Muia Steel \$74150; Concrete \$47988	191,318
522		7,988	CIC \$6761.70	6,762
523		7,768	Platinum \$410; Allmar \$1024.99	1,435
524		4,794	Platinum \$500; Trescon \$425; Allmar \$1292.41	2,217
525		7,640	GP Custom \$5000; Platinum \$1000	6,000
529		3,152	Lynx \$662	662
531		58,068	Lynx \$45601	45,601

APPENDIX C - OHP applied to quotes w/ OHP already included

CO	Credit Amount	Extra Amount	Subcontractor Quote, fee included but additional fee added on CO	Total Amount
532		1,312	Muia \$1030	1,030
533		3,656	Lynx \$2468	2,648
537		24,037	Platinum \$1710	1,710
542		2,254	Lynx \$662	662
				2,205,947

# **APPENDIX D**

## **Unallowable Subcontractor Overhead Costs**

APPENDIX D - Unallowable OHP per the Contract

CO	Credit Amount	Extra Amount	Subcontractor	Description	# Hours	Rate	Total
7		2,148	Benson	Project Mgr	1.00	119	119.00
18		2,804	Benson	Project Mgr	1.00	119	119.00
24		12,285	Accel	Supervision	6.29	77	484.33
31		2,680	Accel	Supervision	1.78	77	137.06
34		1,395	Benson	Project Mgr	1.00	119	119.00
35		1,270	Benson	Project Mgr	1.50	119	178.50
36		603	Benson	Project Mgr	1.00	119	119.00
38		1,404	Pipe All	Detailing, Investigation, Coordination	4.00	85	340.00
44		4,203	Benson	Project Mgr	1.00	119	119.00
45		49,973	Pipe All	Foreman supervision	4.00	85	340.00
49		10,526	Pipe All	Indirect Labour - Layout, Co-ordination & Supervision	6.00	85	510.00
53		6,590	Pipe All	Indirect Labour - Foreman & supervision	2.00	85	170.00
53		6,590	Pipe All	Indirect Labour Co-ordination & layout	1.00	79	79.00
65		17,124	Accel	Supervision	0.80	77	61.60
65		17,124	Pipe All	Indirect - Co-ordination, layout and supervision	8.00	85	680.00
67		21,921	Pipe All	Indirect - Co-ordination, administration, supervision	20.00	95	1,900.00
69		7,255	Pipe All	Co-ordination & Foreman Supervision	4.00	85	340.00
70		4,818	Pipe All	Co-ordination & Supervision	4.50	85	382.50
72		3,974	Pipe All	RFI, Co-ordination & Supervision	5.00	85	425.00
73		20,741	Accel	Supervision	7.98	77	614.46
74		25,343	Benson	Project Mgr	1.00	119	119.00
75		240,353	Pipe All - G & R	Project Management			1,920.00
77		56,049	Benson	Project Mgr	1.50	119	178.50
79		52,031	Pipe All - G & R	Job Expense - Eng Drawings			544.00
79		52,031	Pipe All - G & R	Job Expense - Consumables			108.80
79		52,031	Pipe All - G & R	Indirect Labour - clean up			326.40
80		53,173	Pipe All - G & R	Job Expense - Eng Drawings			412.25
80		53,173	Pipe All - G & R	Job Expense - Consumables			82.45
80		53,173	Pipe All - G & R	Indirect Labour - clean up			247.35
83		1,207	Pipe All	Coordinate other trades, re-layout risers, mark new openings for Maystar	12.00	79	948.00
86		6,604	Pipe All	Co-ordination & Supervision	3.00	85	255.00
87		3,155	Pipe All	Co-ordination, Foreman & Supervision	4.00	85	340.00
90		15,235	Pipe All	Indirect Labour - Review, layout, send RFIs, Co-ordination & Supervision	10.00	85	850.00
91		2,654	Pipe All	Indirect Labour - Review dwgs, send RFIs, Co-ordination & Supervision	6.00	85	510.00
92		23,971	Pipe All	Co-ordination & Supervision	5.00	85	425.00
94		2,509	Pipe All	Indirect Labour - Review shop drawings, issue RFIs	4.00	85	340.00
95		3,674	Pipe All	Indirect Labour - no further description	3.00	85	255.00
96		12,601	Pipe All - G & R	Job Expense - Eng Drawings			45.00
96		12,601	Pipe All - G & R	Job Expense - Consumables			9.00
96		12,601	Pipe All - G & R	Indirect Labour - clean up			27.00
97		2,424	Pipe All	Co-ordination, Layout & Supervision	10.00	85	850.00
100		3,392	Pipe All	Indirect Labour - Review drawings, discuss with Eng, send RFIs	3.00	85	255.00
102		9,578	Pipe All	Co-ordination & Supervision	4.00	85	340.00
103		16,108	Pipe All	Indirect Labour - Review Drawings, RFI, CCO, Co-ordination & Supervision	12.00	85	1,020.00
104		14,863	Pipe All	Indirect Labour - Study drawings, discuss with electrician, send RFI, re-layout	10.00	85	850.00
105		94,963	Pipe All	Indirect Labour - meet with consultants, review drawings, co-ordination & supervision	12.50	85	1,062.50
106		31,203	Pipe All	Indirect Labour - meet with consultants, review drawings, co-ordination & supervision	10.00	85	850.00
107		58,529	Pipe All	Indirect Labour - meet with consultants, review drawings, co-ordination & supervision	20.00	85	1,700.00

APPENDIX D - Unallowable OHP per the Contract

CO	Credit Amount	Extra Amount	Subcontractor	Description	# Hours	Rate	Total
108		30,649	Pipe All	Indirect Labour - meet with consultants, review drawings, co-ordination & supervision	10.00	85	850.00
109		1,898	Pipe All - G & R	Job Expense - Eng Drawings			45.00
109		1,898	Pipe All - G & R	Job Expense - Consumables			9.00
109		1,898	Pipe All - G & R	Indirect Labour - clean up			27.00
110		758	Pipe All	Indirect labour - Review SI, check gas, discuss with consultant and manufacturer, make suggestion	7.00	85	45.00
111		3,661	Pipe All	Co-ordination & Supervision	3.00	85	255.00
114		6,402	Pipe All	Indirect labour - Review dwgs and verify problem, send RFI, discuss with eng, make sketches	13.00	85	1,105.00
116		1,343	Accel	Supervision	1.16	77	89.32
118		7,141	Accel	Supervision	0.50	77	38.50
119		6,537	Accel	Supervision	5.75	77	442.75
120		5,217	Accel	Supervision	2.83	77	217.91
121		8,625	Accel	Supervision	6.31	77	485.87
122		42,943	Pipe All	Review dwgs, review code, discuss with TSSA, issue RFI, discuss with consultants, attend meetings, eng & design, as-builts	42.00	85	3,570.00
126		72,577	Accel	Supervision	2.18	77	167.86
126		72,577	Pipe All	Indirect Labour - meet with consultants, review drawings, co-ordination & supervision	20.00	85	1,700.00
129		3,429	Accel	Supervision	0.35	77	26.95
129		3,429	Pipe All - G & R	Job Expense - Eng Drawings			63.75
129		3,429	Pipe All - G & R	Job Expense - Consumables			12.75
129		3,429	Pipe All - G & R	Indirect Labour - clean up			38.25
131		81,570	Pipe All	Review dwgs, send RFI, meet with consultants, make sketch proposal, make sample for approval	50.00	85	4,250.00
134		19,836	Pipe All	As-builts	8.00	85	680.00
136		88,784	Pipe All	As-builts	12.00	85	1,020.00
140		1,098	Accel	Supervision	0.87	77	66.99
141		30,771	Pipe All	Co-ordination, re layout, supervision	8.00	85	680.00
141		30,771	Pipe All	Co-ordination, re layout, supervision	20.00	85	1,700.00
143		3,053	Pipe All	Indirect Labour - review drawings, issue RFIs, meet with architect, co-ordination & supervision	9.00	85	765.00
146		40,783	Accel	Supervision	0.98	77	75.46
147		1,439	Pipe All	As-builts	4.00	85	340.00
147		1,439	Pipe All	Review dwgs, identify problem, review with consultants, layout, co-ordinate with Maystar	10.00	79	790.00
148		3,141	Pipe All	As-builts	3.00	85	255.00
148		3,141	Pipe All	Review FCU, identify problem, review with consultants, suggest solution, remobilize	28.00	79	2,212.00
150		89,864	Accel	Supervision	45.11	77	3,473.47
152		32,783	Avenue	Supervisor - Cut and remove concrete	4.00	76	304.00
152		32,783	Avenue	Supervisor - Re-pour and finish concrete	2.00	76	152.00
152		32,783	Pipe All - G & R	Job Expense - Eng Drawings			20.63
152		32,783	Pipe All - G & R	Job Expense - Consumables			4.13
152		32,783	Pipe All - G & R	Indirect Labour - clean up			12.38
155		10,969	Avenue	Supervisor - provide key at top of lean mix	6.00	76	456.00
159		1,869	Benson	Project Mgr	1.00	119	119.00
160		9,135	Benson	Project Mgr	1.00	119	119.00
161		3,180	Pipe All	Review dwgs, issue RFIs, meet with consultants	8.00	85	680.00
162		33,292	Pipe All	Mobilization, Co-ordination & supervision (says \$1580, but correctly billed \$1190)	14.00	85	1,190.00
163		77,239	Pipe All	As-built & Supervision	20.00	85	1,700.00
163		77,239	Pipe All - G & R	Project Management			300.00

APPENDIX D - Unallowable OHP per the Contract

CO	Credit Amount	Extra Amount	Subcontractor	Description	# Hours	Rate	Total
165		1,136	Pipe All	Indirect Labour - study underground drain pipes, discuss with consultants, make suggestions	10.50	85	892.50
166		866	Pipe All	Study size of shaft, discuss with trades, rearrange services inside shaft	8.00	85	680.00
167		2,943	Pipe All	RFI, Co-ordination & Supervision	6.00	85	510.00
168		3,053	Pipe All	Indirect labour - review dwgs, issue RFIs, meet with architect, Co-ordination & Supervision	9.00	85	765.00
170		4,842	Pipe All	Review site condition, review with consultant, coordinate with other trades, remobilize, re-pipe	48.00	79	3,792.00
172		2,165	Pipe All	Indirect labour - Review site condition, identify areas of conflict, issue RFI, meet with consultant	20.00	85	1,700.00
173		44,731	Pipe All	As-builts	10.00	85	850.00
174		461,166	Pipe All	Co-ordination & supervision & as-builts	80.00	85	6,800.00
174		461,166	Pipe All - G & R	Project Management			340.00
175		1,299	Pipe All	Investigate alternatives, relo new holes for Maystar, co-ordinate, supervise, x-ray and coring by Maystar	12.00	85	1,020.00
176		14,513	Pipe All	Supervision & As-builts	5.00	85	425.00
177		3,178	Pipe All	Co-ordination & supervision & as-builts	5.00	85	425.00
177		3,178	Pipe All	Review site condition, identify problem, issue RFI, review with consultant, remobilize, relocate new hole, build scaffold	24.00	79	1,896.00
180		11,113	Pipe All	As-builts	6.00	85	510.00
181		2,165	Pipe All	Review dwgs, issue RFI, review response, locate vents, co-ordination with other trades, supervision, as-builts	20.00	85	1,700.00
182		5,321	Pipe All	Supervision & As-builts	4.00	85	340.00
185		16,408	Accel	Supervision	13.54	77	1,042.58
186		40,548	Accel	Supervision	27.99	77	2,155.23
187		1,621	Accel	Supervision	0.44	77	33.88
188		28,698	Accel	Supervision	22.89	77	1,762.53
189		15,929	Accel	Supervision	7.51	77	578.27
190		4,203	Accel	Supervision	3.63	77	279.51
191		34,182	Accel	Supervision	21.99	77	1,693.23
192		2,071	Accel	Supervision	1.71	77	131.67
193		3,820	Accel	Supervision	3.01	77	231.77
194		8,865	Accel	Supervision	6.80	77	523.60
195		12,149	Pipe All	Supervision & As-builts	5.00	85	425.00
196		5,385	Accel	Supervision	3.88	77	298.76
197		118,474	Pipe All	As-builts	14.00	85	1,190.00
198		2,439	Accel	Supervision	2.04	77	157.08
199		14,371	Pipe All	Co-ordination & Foreman Supervision	4.00	85	340.00
200		3,857	Accel	Supervision	0.65	79	51.35
201		2,919	Accel	Supervision	1.91	79	150.89
202		5,627	Accel	Supervision	4.28	79	338.12
205		1,002	Accel	Supervision	0.71	77	54.67
206		26,819	Pipe All	Co-ordination, supervision & as-builts	6.00	85	510.00
207		28,827	Pipe All	Indirect Labour - meet with consultants, review drawings, co-ordination & supervision	20.00	85	1,700.00
208		9,857	Pipe All	Co-ordination, supervision & as-builts	6.00	95	570.00
209		7,490	Pipe All - G & R	Job Expense - Eng Drawings			68.00
209		7,490	Pipe All - G & R	Job Expense - Consumables			13.60
209		7,490	Pipe All - G & R	Indirect Labour - clean up			40.80
211		44,500	Pipe All	Site investigation, co-ordination, supervision & as-builts	30.00	85	2,550.00
214		146,394	Accel	Supervision	59.59	79	4,707.61
215		7,231	Accel	Supervision	4.93	79	389.47

APPENDIX D - Unallowable OHP per the Contract

CO	Credit Amount	Extra Amount	Subcontractor	Description	# Hours	Rate	Total
217		4,323	Pipe All	Co-ordination, supervision & as-builts	3.00	95	285.00
218		18,286	Accel	Supervision	5.94	79	469.26
221		6,092	Pipe All	Supervision & co-ordination with other trades	8.00	85	680.00
222		32,040	Pipe All	Co-ordination, supervision & as-builts	12.00	85	1,020.00
224		5,712	Pipe All	Co-ordination, supervision & as-builts	16.00	95	1,520.00
226		42,499	Accel	Supervision	28.82	79	2,276.78
232		68,823	Pipe All	Co-ordination, supervision & as-builts	30.00	95	2,850.00
235		20,859	Pipe All	Co-ordination, supervision & as-builts	20.00	95	1,900.00
235		20,859	Pipe All - G & R	Project Management			170.00
237		112,541	Accel	Supervision	11.45	77	881.65
239	499		Accel	Supervision	(0.35)	77	(26.95)
240		11,073	Accel	Supervision	8.21	77	632.17
241		4,213	Accel	Supervision	3.40	77	261.80
244		20,678	Benson	Project Mgr	2.00	119	238.00
246		67,217	Pipe All	RFI, co-ordination, supervision & as-builts	32.00	95	3,040.00
246		67,217	Pipe All - G & R	Project Management			340.00
247		5,150	Pipe All	RFI, co-ordination, layout & as-builts	6.00	95	570.00
248		21,544	Pipe All	Co-ordination, supervision & as-builts	8.00	95	760.00
254		4,734	Pipe All	Co-ordination, supervision & as-builts	5.00	95	475.00
255		2,249	Pipe All	Co-ordination, supervision & as-builts	3.00	95	285.00
256		1,643	Pipe All	Co-ordination, supervision & as-builts	3.00	95	285.00
257		125,000	Benson	Project Mgr	20.00	119	2,380.00
257		125,000	Benson	Project Mgr - S Benson, R Morrison, B Benson site Meetings	140.00	119	16,660.00
262	499		Accel	Supervision	(0.35)	77	(26.95)
264		37,749	Accel	Supervision	31.00	79	2,449.00
269		10,423	Pipe All	Sketch & As-built	4.00	85	340.00
274		4,912	Pipe All	Co-ordination, supervision & as-builts	3.00	95	285.00
277		6,263	Benson	Project Mgr	2.00	119	238.00
278		17,084	Pipe All	Co-ordination, supervision & as-builts	5.00	85	425.00
279		1,886	Pipe All	Indirect labour - co-ordination & supervision	2.00	85	170.00
280		14,555	Pipe All	Co-ordination, supervision & as-builts	12.00	95	1,140.00
281		108,043	Pipe All	Meetings, co-ordination, supervision & as-builts	40.00	95	3,800.00
282		63,536	Pipe All	Co-ordination, supervision & as-builts	20.00	85	1,700.00
284		44,413	Benson	Project Mgr	4.00	119	476.00
286		34,304	Accel	Supervision	1.80	79	142.20
286		34,304	Pipe All	Co-ordination, supervision & as-builts	6.00	95	570.00
286		34,304	Pipe All - G & R	Project Management			170.00
287		18,582	Pipe All	Co-ordination, supervision & as-builts	8.00	95	760.00
288		2,763	Pipe All	Co-ordination, supervision & as-builts	4.00	95	380.00
289		18,120	Pipe All	As-builts	5.00	85	425.00
290		1,945	Pipe All	Co-ordination, supervision & as-builts	4.00	85	340.00
291		3,532	Pipe All	Co-ordination, supervision & as-builts	3.00	85	255.00
292		33,130	Pipe All	Review dwgs, discuss with inspector, issue RFI, meet with tank manufacturer, co-ordination, supervision & as-builts	40.00	95	3,800.00
292		33,130	Pipe All - Johnson Controls	Project Management			125.00
294		84,163	Accel	Supervision	2.02	79	159.58
294		84,163	Pipe All	Co-ordination, supervision & as-builts	3.00	95	285.00
295		15,427	Accel	Supervision	0.47	79	37.13
295		15,427	Pipe All	Co-ordination & as-builts	2.00	95	190.00
297		14,394	Pipe All	Layout kitchen equipment, issue RFI, meet with consultant, co-ordination, supervision & as-builts	36.00	95	3,420.00
298		598	Accel	Supervision	0.45	79	35.55
299		122,926	Pipe All	Co-ordination, supervision & as-builts (says \$85, but billed \$95)	24.00	95	2,280.00
300		37,883	Accel	Supervision	24.35	77	1,874.95
302		35,001	Benson	Project Mgr	1.00	119	119.00
303	3,979		Benson	Project Mgr	(1.00)	119	(119.00)



APPENDIX D - Unallowable OHP per the Contract

CO	Credit Amount	Extra Amount	Subcontractor	Description	# Hours	Rate	Total
305		10,085	Pipe All	Co-ordination, supervision & as-builts	16.00	95	1,520.00
306		8,735	Pipe All	Co-ordination, supervision & as-builts	10.00	95	950.00
308		114,655	Pipe All	Indirect labour - Review CCO, investigate, send RFI, co-ordination & supervision	10.00	85	850.00
313		10,606	Accel	Supervision	6.41	79	506.39
315		166,960	Pipe All	Co-ordination, supervision & as-builts	120.00	95	11,400.00
319		6,398	Accel	Supervision	4.40	77	338.80
323		2,766	Accel	Supervision	2.50	79	197.50
324		8,547	Pipe All	Co-ordination, supervision & as-builts	4.00	95	380.00
332		22,216	Pipe All	Co-ordination, supervision & as-builts	9.00	95	855.00
332		22,216	Pipe All - G & R	Project Management			340.00
333		52,814	Pipe All	Co-ordination, supervision & as-builts	12.00	95	1,140.00
334		33,763	Pipe All	Co-ordination, supervision & as-builts	10.00	95	950.00
334		33,763	Pipe All - G & R	Project Management			340.00
335		16,976	Pipe All	RFI, co-ordination, supervision & as-builts	24.00	95	2,280.00
336		17,074	Pipe All	Co-ordination, supervision & as-builts	10.00	95	950.00
351		3,907	Pipe All	Co-ordination, supervision & as-builts	3.00	85	255.00
352		16,154	Pipe All	Co-ordination, supervision & as-builts	6.00	95	570.00
361		8,567	Accel	Supervision	3.70	79	292.30
369		3,303	Accel	Supervision	2.38	79	188.02
370		1,968	Accel	Supervision	1.60	79	126.40
371		8,884	Pipe All	Co-ordination, supervision & as-builts	12.00	95	1,140.00
371		8,884	Pipe All - G & R	Project Management			340.00
375		68,349	Pipe All	Co-ordination, supervision & as-builts (says \$95, but billed \$79)	24.00	79	1,896.00
375		68,349	Pipe All - G & R	Project Management			340.00
381		11,581	Pipe All	Co-ordination, supervision & as-builts	20.00	95	1,900.00
382		19,869	Pipe All	Review site condition, send RFI, meet with consultant, co-ordination & supervision	24.00	95	2,280.00
384		8,495	Pipe All	Co-ordination, supervision & as-builts	16.00	95	1,520.00
385		8,781	Pipe All	Co-ordination, supervision & as-builts	12.00	95	1,140.00
387		4,956	Pipe All	Co-ordination, supervision & calculation of the oil level	10.00	95	950.00
388	3		Pipe All	Review dwgs, send RFI, meet with consultant, co-ordination & supervision	5.00	95	475.00
390		5,327	Pipe All	Supervision & as-builts	2.00	95	190.00
391		10,333	Pipe All	Co-ordination, supervision & as-builts	3.00	95	285.00
392		1,285	Pipe All	Co-ordination, supervision & as-builts	1.00	95	95.00
393		14,071	Pipe All	Co-ordination, supervision & as-builts	8.00	95	760.00
394		1,513	Pipe All	Supervision & as-builts	2.00	95	190.00
395		7,390	Pipe All	Co-ordination, supervision & as-builts	8.00	90	720.00
396		1,560	Pipe All	Co-ordination, supervision & as-builts	1.00	95	95.00
397		12,398	Pipe All	Co-ordination, supervision & as-builts	2.00	95	190.00
404		14,683	Pipe All	Co-ordination, supervision & as-builts	5.00	95	475.00
405		1,192	Pipe All	Co-ordination, supervision & as-builts	4.00	85	340.00
407		52,127	Pipe All	Co-ordination, supervision & as-builts	12.00	95	1,140.00
408		8,336	Pipe All	Co-ordination, supervision & as-builts	6.00	95	570.00
415		12,564	Accel	Supervision	4.23	79	334.17
427		6,975	Accel	Supervision	0.92	79	72.68
441		15,208	Accel	Supervision	7.12	79	562.48
442		5,696	Accel	Supervision	3.59	79	283.61
459		11,737	Accel	Supervision	1.98	79	156.42
465		13,554	Accel	Supervision	4.26	79	336.54
469		1,000	Accel	Supervision	0.80	79	63.20
472		3,498	Accel	Supervision	2.68	79	211.72
474		1,073	Accel	Supervision	0.72	79	56.88
475		6,933	Accel	Supervision	1.45	79	114.55
476		3,959	Accel	Supervision	2.97	79	234.63
479		13,635	Accel	Supervision	8.18	79	646.22
484		3,540	Accel	Supervision	2.81	79	221.99
485		9,645	Accel	Supervision	5.94	79	469.26
486		4,391	Accel	Supervision	2.63	79	207.77
488		44,307	Accel	Supervision	25.27	79	1,996.33

APPENDIX D - Unallowable OHP per the Contract

CO	Credit Amount	Extra Amount	Subcontractor	Description	# Hours	Rate	Total
489		29,082	Accel	Supervision	4.27	79	337.33
490		14,858	Accel	Supervision	9.37	79	740.23
494		955	Accel	Supervision	0.80	79	63.20
496		14,326	Accel	Supervision	6.50	79	513.50
496		14,326	Pipe All	As-builts	1.00	105	105.00
497		76,348	Accel	Supervision	44.05	79	3,479.95
499		9,518	Accel	Supervision	4.80	79	379.20
500		6,560	Accel	Supervision	5.15	79	406.85
501		13,989	Accel	Supervision	4.80	79	379.20
502		1,431	Accel	Supervision	0.80	79	63.20
503		7,257	Accel	Supervision	5.25	79	414.75
507		2,557	Accel	Supervision	1.85	79	146.15
509		100,975	Accel	Supervision	2.59	79	204.61
509		100,975	Benson	Project Mgr	4.00	119	476.00
510		5,256	Accel	Supervision	4.32	79	341.28
514		38,237	Accel	Supervision	3.70	79	292.30
514		38,237	Aquanorth	Supervision	4.00	80	320.00
514		38,237	Aquanorth	Supervision	8.00	80	640.00
515		27,219	Accel	Supervision	5.86	79	462.94
517		13,921	Accel	Supervision	2.11	77	162.47
521		2,915	Accel	Supervision	2.32	79	183.28
523		7,768	Accel	Supervision	0.80	79	63.20
529		3,152	Accel	Supervision	1.74	79	137.46
530		5,890	Accel	Supervision	2.35	79	185.65
533		3,656	Accel	Supervision	0.26	79	20.54
534		3,133	Accel	Supervision	2.27	79	179.33
536		7,492	Accel	Supervision	5.53	79	436.87
537		24,037	Accel	Supervision	4.80	79	379.20
538		11,769	Accel	Supervision	6.84	79	540.36
539		7,511	Accel	Supervision	0.66	79	52.14
540		4,445	Accel	Supervision	1.67	79	131.93
541		6,010	Accel	Supervision	0.80	79	63.20
542		2,254	Accel	Supervision	0.80	79	63.20
543		4,116	Accel	Supervision	1.60	79	126.40

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# APPENDIX E

## Change Order Recalculations

APPENDIX E - CO Recalc

CO	Issue Date	Credit Amount	Extra Amount	Subcontractor	1st Tier Subcontractor Amt	Unallowable Costs on 1st Tier Sub	Other Adjustments	Subtotal	15% Sub Fee	1st Tier Sub Amt, fee included	2nd tier sub	Unallowed Costs on 2nd tier sub	15% fee on 2nd tier sub	2nd tier sub, fee included	Unallowable costs on 2nd tier sub, fee included	Subtotal	10% GC Fee	Credit not Properly Applied	Total	Difference
1	27-Jul-07		618,671	Maystar unit price	618,671.00			618,671.00								618,671			618,671	0
2	6-Mar-08		12,292	Harris Rebar \$9717.25 + fee	9,717.25			9,717.25	1,457.59							11,175	1,117		12,292	0
3	6-Mar-08	33,089		Avenue Bldg \$16929.76; Harris Rebar \$3478 + fee; Kapp \$2633.40; Concrete \$6432.80	20,415.80			20,415.80	3,062.37	6,433						29,911	2,991		32,902	(187)
4	6-Mar-08		11,922	Harris Rebar \$9362.40 + fee	9,362.40			9,362.40	1,404.36							10,767	1,077		11,843	(79)
5	6-Mar-08		10,618	Avenue Bldg \$4845.46; Harris Rebar \$2784.75 + fee; Concrete \$1568.64	6,979.95			6,979.95	1,046.99	1,569						9,596	960		10,555	(62)
6	6-Mar-08		1,167	Harris Rebar \$916.50 + fee	916.50			916.50	137.48							1,054	105		1,159	(8)
7	6-Mar-08		2,148	Avenue Bldg \$598.41; Benson Steel \$721.77; Concrete \$628	1,143.01	(119.00)		1,024.01	153.60	688						1,866	187		2,052	(96)
8	6-Mar-08		5,827	Aquanorth \$5285.51	4,576.20			4,576.20	686.43							5,263	526		5,789	(38)
9	6-Mar-08		647,768	Material \$116326.06; labor \$395743.24 plus 15%	512,069.30			512,069.30	76,810.40							588,880	58,888		647,768	0
10	6-Mar-08		295,629	Pipe All \$268144.10	232,159.39			232,159.39	34,823.91							266,983	26,698		293,682	(1,947)
11	6-Mar-08	14,639		Aquanorth <\$14639.24>	(14,639.24)			(14,639.24)								(14,639)			(14,639)	-
12	6-Mar-08		38,041	Pipe All \$34504.63	29,874.14			29,874.14	4,481.12							34,355	3,436		37,791	(251)
13	6-Mar-08	3,185		Pipe All <\$3184.51>	-			-	-		(3,184.51)					(3,185)			(3,185)	-
14	4-Jun-08		742,743	Lynx Cabling \$687725	687,725.00			687,725.00								687,725	55,018		742,743	-
15	4-Jun-08		3,916	Pipe All \$3551.59	3,074.97			3,074.97	461.25							3,536	354		3,890	(26)
16	4-Jun-08		5,808	Pipe All \$5268.17	4,561.19			4,561.19	684.18							5,245	525		5,770	(38)
17	4-Jun-08		2,974	Pipe All \$2697.53	2,335.53			2,335.53	350.33							2,686	269		2,954	(20)
18	4-Jun-08		2,804	Benson Steel \$2542.98	2,201.72	(119.00)		2,082.72	312.41							2,395	240		2,635	(169)
19	4-Jun-08		3,191	Pipe All \$2894.78	2,506.30			2,506.30	375.95							2,882	288		3,170	(21)
20	4-Jun-08		7,965	Pipe All \$7224.08	6,254.62			6,254.62	938.19							7,193	719		7,912	(52)
21	4-Jun-08		6,764	Pipe All \$6134.97	5,311.67			5,311.67	796.75							6,108	611		6,719	(45)
22	4-Jun-08		-		-			-	-							-			-	-
23	4-Jun-08		4,602	Pipe All \$4173.79	3,613.67			3,613.67	542.05							4,156	416		4,571	(30)
24	4-Jun-08		12,285	Accel Elec \$11143.18	9,647.77	(484.33)		9,163.44	1,374.52							10,538	1,054		11,592	(694)
25	15-Jul-08		2,863	Avenue Bldg \$2372.95; Concrete \$223.60	2,054.50			2,054.50	308.18	224						2,586	259		2,845	(18)
26	15-Jul-08		1,334	Avenue Bldg \$1071.26; Concrete \$120.40 + fee	927.50			927.50	139.13	120						1,187	119		1,306	(29)
27	15-Jul-08		39,338	Avenue Bldg \$12145.40; Kapp \$9378.60; Pro Caissons \$4205 quote fee; Aquanorth \$861.63; Harris Rebar \$2961.25; Concrete \$2287.60; Masonry \$621 + fee; Dewatering \$2140.10 + fee	24,706.45			24,706.45	3,705.97	6,493						34,905	3,491		38,396	(942)
28	15-Jul-08		6,981	Avenue Bldg \$2538.11; Harris Rebar \$2944.96; Concrete \$774; Redetailing \$75.08	4,812.25			4,812.25	721.84	774						6,308	631		6,939	(42)
29	15-Jul-08	1,391		Pipe All <\$1390.50>	-			-	-		(1,390.50)					(1,391)			(1,391)	-
30	15-Jul-08		8,575	Pipe All \$7777.38	6,733.66			6,733.66	1,010.05							7,744	774		8,518	(56)
31	15-Jul-08		2,680	Accel \$2430.73	2,104.53	(137.06)		1,967.47	295.12							2,263	226		2,489	(191)
32	15-Jul-08	1,330		Accel <\$1330>	(1,330.00)			(1,330.00)								(1,330)			(1,330)	-
33	15-Jul-08	1,456		Accel <\$1456>	(1,456.00)			(1,456.00)								(1,456)			(1,456)	-
34	12-Sep-08		1,395	Benson Steel \$1264.90	1,095.15	(119.00)		976.15	146.42							1,123	112		1,235	(160)
35	12-Sep-08		1,270	Benson Steel \$1151.47	996.95	(178.50)		818.45	122.77							941	94		1,035	(234)
36	12-Sep-08		603	Benson Steel \$547.17	473.74	(119.00)		354.74	53.21							408	41		449	(155)
37	12-Sep-08		6,863	Pipe All -GD Sheetmetal \$4666 + fee	-			-	-		4,666.00		700			5,366	537		5,902	(960)
38	12-Sep-08		1,404	Pipe All \$1273.11	340.00	(340.00)		-	-		659.96		99			759	76		835	(569)
39	12-Sep-08		4,800	Avenue Bldg \$4521.25; Concrete <\$167.70>	3,914.50			3,914.50	587.18	(168)						4,334	433		4,767	(32)
40	20-Oct-08		35,075	Kapp \$31814.48	27,545.00			27,545.00	4,131.75							31,677	3,168		34,844	(231)
41	20-Oct-08		4,572	Maystar \$3590.74 + 10% + 5% + 5% + 5%	3,590.74			3,590.74	538.61							4,129	413		4,542	(30)
42	20-Oct-08		22,614	Kapp \$20511.90	18,940.00			18,940.00	2,841.00	(1,364)						20,417	2,042		22,459	(155)
43	20-Oct-08		2,244	Kapp \$2034.97	1,761.88			1,761.88	264.28							2,026	203		2,229	(15)
44	20-Oct-08		4,203	Benson Steel \$3812.54	3,300.90	(119.00)		3,181.90	477.29							3,659	366		4,025	(178)
45	20-Oct-08		49,973	Pipe All \$45327	39,244.16	(340.00)		38,904.16	5,835.62							44,740	4,474		49,214	(759)
46	20-Oct-08		299	Harris Rebar \$271.43	235.00			235.00	35.25							270	27		297	(2)
47	20-Oct-08		8,654	Benson Steel \$7849.18	6,795.83			6,795.83	1,019.37							7,815	782		8,597	(57)
48	20-Oct-08		2,212	Benson Steel \$2006.70	1,737.40			1,737.40	260.61							1,998	200		2,198	(15)
49	20-Oct-08		10,526	Pipe All \$9547.28	9,212.70	(510.00)		8,702.70	1,305.41	(504)	(589.61)					8,915	891		9,806	(720)
50	20-Oct-08		753	Benson Steel \$683.24	591.55			591.55	88.73							680	68		748	(5)

APPENDIX E - CO Recalc

CO	Issue Date	Credit Amount	Extra Amount	Subcontractor	1st Tier Subcontractor Amt	Unallowable Costs on 1st Tier Sub	Other Adjustments	Subtotal	15% Sub Fee	1st Tier Sub Amt, fee included	2nd tier sub	Unallowed Costs on 2nd tier sub	15% fee on 2nd tier sub	2nd tier sub, fee included	Unallowable costs on 2nd tier sub, fee included	Subtotal	10% GC Fee	Credit not Not Properly Applied	Total	Difference	
51	20-Oct-08		2,046	Kapp \$272 + \$610 + fee; garbage bin \$535 (billed \$735)	1,417.00			1,417.00	212.55							1,630	163		1,793	(253)	
52	20-Oct-08		13,912	Kapp \$12618.38	10,925.00			10,925.00	1,638.75							12,564	1,256		13,820	(92)	
53	20-Oct-08		6,590	Pipe All \$5977.48	5,175.31	(249.00)		4,926.31	738.95							5,665	567		6,232	(358)	
54	23-Oct-08		9,810	North York \$5868.67 quote + fee; Excavator \$2000 + fee; Base contract <\$165.13> fee	1,834.87			1,834.87	275.23	5,869						7,979	798		8,777	(1,033)	
55	17-Nov-08		179,957	North York \$134170.50 quote + fee; Enviroway Waste \$1120.70 + fee; Sherway Excavation \$1230 + fee; Excavator \$8875 + fee; Base contract <\$4116> fee; trash pump \$41.22 + fee	4,800.22			4,800.22	720.03	136,521						142,041	14,204		156,246	(23,711)	
56	24-Oct-08		-					-	-							-			-	-	
57	17-Nov-08		123,181	Remove unsuitable soil \$123181	123,181.00			123,181.00								123,181			123,181	-	
58	17-Nov-08		3,614	Benson Steel \$3278.35	2,838.40			2,838.40	425.76							3,264	326		3,591	(24)	
59	17-Nov-08		10,194	Avenue \$7409.60; Harris Rebar \$773.56; Detailing \$65 + fee; Concrete \$968.36	7,167.30			7,167.30	1,075.10	968						9,211	921		10,132	(63)	
60	17-Nov-08		1,267	Avenue \$932.55; concrete \$216.72	807.40			807.40	121.11	217						1,145	115		1,260	(7)	
61	17-Nov-08		1,265	Harris Rebar \$1072.13; Detail \$65 + fee	993.25			993.25	148.99							1,142	114		1,256	(8)	
62	17-Nov-08		2,549	Avenue \$1835.30; Concrete \$412.80 + fee	1,589.00			1,589.00	238.35	413						2,240	224		2,464	(85)	
63	16-Dec-08		6,189	Pipe All \$5613.30				-	-					4,860		4,860	486		5,346	(843)	
64	16-Dec-08		9,678	Avenue Bldg \$5647.37; Harris Rebar \$2171.40; Detailing \$280 + fee; Concrete \$636.40	7,049.50			7,049.50	1,057.43	636						8,743	874		9,618	(61)	
65	21-Jan-09		17,124	Pipe All \$14198.32; Accel \$1333.32	13,447.31	(741.60)		12,705.71	1,905.86							14,612	1,461		16,073	(1,051)	
66	21-Jan-09		7,509	Pipe All \$6810.80	5,896.80			5,896.80	884.52							6,781	678		7,459	(49)	
67	21-Jan-09		21,921	Pipe All \$19882.63	17,214.40	(1,900.00)		15,314.40	2,297.16							17,612	1,761		19,373	(2,548)	
68	21-Jan-09		50,263	Pipe All \$45589.70	39,471.60			39,471.60	5,920.74							45,392	4,539		49,932	(331)	
69	21-Jan-09		7,255	Pipe All \$6580.16	5,697.11	(340.00)		5,357.11	803.57							6,161	616		6,777	(478)	
70	21-Jan-09		4,818	Pipe All \$4369.69	3,783.28	(382.50)		3,400.78	510.12							3,911	391		4,302	(516)	
71	21-Jan-09		4,871	Pipe All \$4417.88	3,825.00			3,825.00	573.75							4,399	440		4,839	(32)	
72	21-Jan-09		3,974	Pipe All \$3604.42	3,120.71	(425.00)		2,695.71	404.36							3,100	310		3,410	(564)	
73	21-Jan-09		20,741	Accel \$18812.38	16,287.77	(614.46)		15,673.31	2,351.00							18,024	1,802		19,827	(914)	
74	21-Jan-09		25,343	Benson Steel \$22986.41	19,901.65	(119.00)		19,782.65	2,967.40							22,750	2,275		25,025	(317)	
75	3-Feb-09		240,353	Pipe All \$218007.4				-	-					188,751.00	(1,920.00)	186,831	18,683		205,514	(34,839)	
76	20-Feb-09		873,743	Lynx \$809021	809,021.00			809,021.00								809,021	64,722		873,743	(0)	
77	13-Mar-09		56,049	Avenue \$24960.71; Benson Steel \$3505.24; Vixman quote \$1765 + fee; Kapp \$8881.95; Harris Rebar \$701.64; Detailing \$65 + fee; Concrete \$9288; Masonry \$1138.50 + fee	34,209.09	(178.50)		34,030.59	5,104.59	11,053							50,188	5,019		55,207	(842)
78	13-Mar-09		184,309	Avenue \$52729.79; Aquanorth \$4750.51; Kapp \$95033.40; Harris Rebar \$7762.76; Concrete \$6897.20	138,767.50			138,767.50	20,815.13	6,897						166,480	16,648		183,128	(1,181)	
79	13-Mar-09		52,031	Pipe All \$47193.30				-	-					40,860.00	(979.20)	39,881	3,988		43,869	(8,162)	
80	13-Mar-09		53,173	Pipe All \$48229.68				-	-					41,757.30	(742.05)	41,015	4,102		45,117	(8,056)	
81	13-Mar-09		28,415	Pipe All \$25773.26				-	-					22,314.51		22,315	2,231		24,546	(3,869)	
82	13-Mar-09		1,666	Benson Steel \$1511.54	1,308.69			1,308.69	196.30							1,505	150		1,655	(11)	
83	13-Mar-09		1,207	Pipe All \$1094.94	948.00	(948.00)		-	-							-	-		-	(1,207)	
84	13-Mar-09		31,487	Avenue \$11104.17; Harris Rebar \$1221.41; Kapp \$13888.88; Detail \$65 + fee; Concrete \$2270.40	22,761.50			22,761.50	3,414.23	2,270						28,446	2,845		31,291	(197)	
85	13-Mar-09		50,545	Pipe All \$47516.40; Camino Modular <\$1670.50>				-	-	(1,671)	35,618.83		5,342.82			39,291	3,929		43,220	(7,325)	
86	13-Mar-09		6,604	Pipe All \$5990.32	255.00	(255.00)		-	-		4,269.64		640.45			4,910	491		5,401	(1,203)	
87	20-Apr-09		3,155	Pipe All \$2861.64	2,477.61	(340.00)		2,137.61	320.64							2,458	246		2,704	(451)	
88	20-Apr-09		36,187	Pipe All \$32822.48				-	-		24,604.10		3,690.62			28,295	2,829		31,124	(5,063)	
89	20-Apr-09		5,928	Pipe All \$5376.82	4,655.25			4,655.25	698.29							5,354	535		5,889	(39)	
90	20-Apr-09		15,235	Pipe All \$13818.84	11,964.36	(850.00)		11,114.36	1,667.15							12,782	1,278		14,060	(1,176)	
91	20-Apr-09		2,654	Pipe All \$2407.15	2,084.11	(510.00)		1,574.11	236.12							1,810	181		1,991	(663)	

APPENDIX E - CO Recalc

CO	Issue Date	Credit Amount	Extra Amount	Subcontractor	1st Tier Subcontractor Amt	Unallowable Costs on 1st Tier Sub	Other Adjustments	Subtotal	15% Sub Fee	1st Tier Sub Amt, fee included	2nd tier sub	Unallowed Costs on 2nd tier sub	15% fee on 2nd tier sub	2nd tier sub, fee included	Unallowable costs on 2nd tier sub, fee included	Subtotal	10% GC Fee	Credit not Properly Applied	Total	Difference
92	20-Apr-09		23,971	Pipe All \$21742.65	18,824.81	(425.00)		18,399.81	2,759.97							21,160	2,116		23,276	(696)
93	20-Apr-09		12,435	Pipe All \$11278.7				-	-		8,454.64			1,268.20		9,723	972		10,695	(1,740)
94	20-Apr-09		2,509	Pipe All \$2276.02	1,970.58	(340.00)		1,630.58	244.59							1,875	188		2,063	(447)
95	20-Apr-09		3,674	Pipe All \$3332.73	2,885.48	(255.00)		2,630.48	394.57							3,025	303		3,328	(347)
96	20-Apr-09		12,601	Pipe All \$1746.36; Avenue \$8517.78; Harris Rebar \$542.85; Concrete \$622.64	7,844.70			7,844.70	1,176.71	623				1,512.00	(81.00)	11,075	1,108		12,183	(419)
97	20-Apr-09		2,424	Pipe All \$2198.24	1,903.24	(850.00)		1,053.24	157.99							1,211	121		1,332	(1,091)
98	20-Apr-09		6,579	Pipe All \$5967.56	5,166.72			5,166.72	775.01							5,942	594		6,536	(43)
99	20-Apr-09		649	Pipe All \$589.05	510.00			510.00	76.50							587	59		645	(4)
100	20-Apr-09		3,392	Pipe All \$3076.23	2,663.40	(255.00)		2,408.40	361.26							2,770	277		3,047	(345)
101	20-Apr-09		60,508	Kapp \$54882.65	47,517.45			47,517.45	7,127.62							54,645	5,465		60,110	(399)
102	18-May		9,578	Pipe All \$8687.26	6,519.53	(340.00)		6,179.53	926.93					1,001.91		8,108	811		8,919	(659)
103	18-May		16,108	Pipe All \$14610.72	12,649.97	(1,020.00)		11,629.97	1,744.50							13,374	1,337		14,712	(1,396)
104	18-May		14,863	Pipe All \$13480.80	850.00	(850.00)		-	-		9,369.43			1,405.41		10,775	1,077		11,852	(3,010)
105	18-May		94,963	Pipe All \$86133.98	46,533.44	(1,062.50)		45,470.94	6,820.64		24,278.29			3,641.74		80,212	8,021		88,233	(6,730)
106	18-May		31,203	Pipe All \$28302.24	2,114.00	(850.00)		1,264.00	189.60		19,385.37			2,907.81		23,747	2,375		26,121	(5,082)
107	18-May		58,529	Pipe All \$53087.38	4,228.00	(1,700.00)		2,528.00	379.20		36,134.29			5,420.14		44,462	4,446		48,908	(9,621)
108	18-May		30,649	Pipe All \$27799.36	2,114.00	(850.00)		1,264.00	189.60		19,008.40			2,851.26		23,313	2,331		25,645	(5,004)
109	18-May		1,898	Pipe All \$1721.41				-	-					1,490.40	(81.00)	1,409	141		1,550	(348)
110	18-May		758	Pipe All \$687.23	595.00	(45.00)		550.00	82.50							633	63		696	(62)
111	18-May		3,661	Pipe All \$3320.63	2,875.00	(255.00)		2,620.00	393.00							3,013	301		3,314	(347)
112	18-Jun-09		34,119	Pipe All \$30947.14	26,794.06			26,794.06	4,019.11							30,813	3,081		33,894	(225)
113	18-Jun-09		25,417	Kapp \$23053.80	19,960.00			19,960.00	2,994.00							22,954	2,295		25,249	(167)
114	18-Jun-09		6,402	Pipe All \$6325.28	5,027.44	(1,105.00)		3,922.44	588.37							4,511	451		4,962	(1,440)
115	18-Jun-09		49,968	Kapp \$45322.20	39,240.00			39,240.00	5,886.00							45,126	4,513		49,639	(329)
116	18-Jun-09		1,343	Accel \$1218.09	1,054.63	(89.32)		965.31	144.80							1,110	111		1,221	(122)
117	18-Jun-09		72,551	Kapp \$65806.13	56,975.00			56,975.00	8,546.25							65,521	6,552		72,073	(478)
118	18-Jun-09		7,141	Accel \$6476.66	5,607.50	(38.50)		5,569.00	835.35							6,404	640		7,045	(96)
119	18-Jun-09		6,537	Accel \$5929.18	5,133.49	(442.75)		4,690.74	703.61							5,394	539		5,934	(603)
120	18-Jun-09		5,217	Accel \$4731.76	4,096.76	(217.91)		3,878.85	581.83							4,461	446		4,907	(310)
121	18-Jun-09		8,625	Accel \$7822.95	6,773.12	(485.87)		6,287.25	943.09							7,230	723		7,953	(671)
122	18-Jun-09		42,943	Pipe All \$38950.59 (Johnson Controls sub of GD Sheet Metal sub of Pipe All)	28,930.20	(3,570.00)		25,360.20	3,804.03		3,430.00			514.50		33,109	3,310.87		36,420	(6,523)
123	20-Jul-09		10,028	Ritz \$9096	7,875.00			7,875.00	1,181.25							9,056	906		9,962	(66)
124	20-Jul-09		17,744	Pipe All \$16093.96				-	-					13,934.16		13,934	1,393		15,328	(2,416)
125	20-Jul-09		32,015	Pipe All \$29038.81				-	-		21,767.82			3,265.17		25,033	2,503		27,536	(4,479)
126	20-Jul-09		72,577	Accel \$2408.75; Pipe All \$63420.80	18,936.30	(1,867.86)		17,068.44	2,560.27		32,951.50			4,942.73		57,523	5,752		63,275	(9,302)
127	20-Jul-09		90,471	Pipe All \$82059.60				-	-		61,512.79			9,226.92		70,740	7,074		77,814	(12,657)
128	20-Jul-09		42,497	Pipe All \$38546.08	18,436.32			18,436.32	2,765.45		12,932.39			1,939.86		36,074	3,607		39,681	(2,816)
129	20-Jul-09		3,429	Pipe All \$2600.83; Accel \$440.78 (incl fee)	381.63	(26.95)		354.68	53.20							2,545	254		2,799	(629)
130	10-Aug-09		8,397	Pipe All \$7616.67	6,594.52			6,594.52	989.18							7,584	758		8,342	(55)
131	10-Aug-09		81,570	Pipe All \$73986.27	64,057.37	(4,250.00)		59,807.37	8,971.11							68,778	6,878		75,656	(5,914)
132	10-Aug-09		5,331	Benson Steel \$3449; Vixman mat \$320 + fee + labor \$880 + fee	4,186.17			4,186.17	627.93							4,814	481		5,296	(35)
133	10-Aug-09		10,200	Avenue Bldg \$717.26; Kapp \$8431.50; Concrete \$103.20	7,921.00			7,921.00	1,188.15	103						9,212	921		10,134	(67)
134	10-Aug-09		19,836	Pipe All \$17992.09	15,577.56	(680.00)		14,897.56	2,234.63							17,132	1,713		18,845	(991)
135	19-Oct-09		44,672	Pipe All \$40518.90	4,520.00			4,520.00	678.00		26,460.00			3,969.00		35,627	3,563		39,190	(5,482)
136	19-Oct-09		88,784	Pipe All \$80529.53	69,722.54	(1,020.00)		68,702.54	10,305.38							79,008	7,901		86,909	(1,875)
137	19-Oct-09		91,763	Pipe All \$83232.11	72,062.44			72,062.44	10,809.37							82,872	8,287		91,159	(604)
138	19-Oct-09		29,731	Pipe All \$26966.80	23,347.88			23,347.88	3,502.18							26,850	2,685		29,535	(196)
139	19-Oct-09	258		Pipe All <\$257.70> (s/b <\$275.70>)				-	-					(275.70)		(276)			(276)	(18)
140	23-Oct-09		1,098	Accel \$996.22	862.53	(66.99)		795.54	119.33							915	91		1,006	(92)
141	19-Oct-09		30,771	Pipe All \$27909.90	23,298.17	(2,380.00)		20,918.17	3,137.73		750.00			112.50		24,918	2,492		27,410	(3,360)
142	19-Oct-09		113,387	Pipe All \$102845.03	89,043.32			89,043.32	13,356.50							102,400	10,240		112,640	(747)
143	19-Oct-09		3,053	Pipe All \$2769.11	2,397.50	(765.00)		1,632.50	244.88							1,877	188		2,065	(988)
144	23-Oct-09		7,581	TM&T \$6876	5,952.96			5,952.96	892.94							6,846	685		7,530	(50)
145	23-Oct-09	7,187		TM&T <\$7187>	(7,187.00)			(7,187.00)								(7,187)			(7,187)	-
146	23-Oct-09		40,783	Accel \$1078.38; Pipe All \$35913.15	32,027.30	(75.46)		31,951.84	4,792.78							36,745	3,674		40,419	(364)
147	23-Oct-09		1,439	Pipe All \$1305.15	1,130.00	(1,130.00)		-	-							-	-		-	(1,439)
148	23-Oct-09		3,141	Pipe All \$2849.39	2,467.00	(2,467.00)		-	-							-	-		-	(3,141)
149	23-Oct-09		73,665	Pipe All \$66815.93	57,849.29			57,849.29	8,677.39							66,527	6,653		73,179	(485)
150	29-Oct-09		89,864	Accel \$81509.06	70,570.62	(3,473.47)		67,097.15	10,064.57							77,162	7,716		84,878	(4,986)
151	29-Oct-09		325,000	Alternate #7 \$325000	325,000.00			325,000.00								325,000			325,000	-

APPENDIX E - CO Recalc

CO	Issue Date	Credit Amount	Extra Amount	Subcontractor	1st Tier Subcontractor Amt	Unallowable Costs on 1st Tier Sub	Other Adjustments	Subtotal	15% Sub Fee	1st Tier Sub Amt, fee included	2nd tier sub	Unallowed Costs on 2nd tier sub	15% fee on 2nd tier sub	2nd tier sub, fee included	Unallowable costs on 2nd tier sub, fee included	Subtotal	10% GC Fee	Credit not Properly Applied	Total	Difference
152	15-Jan-10		32,783	Pipe All \$865.13; Avenue \$8150.26; Kapp \$13952.40; Disposal bins \$468+fee; vapour barrier \$619.15 + fee; WWM \$761.25 + fee; Basic Concrete Cutting \$1293.60 + \$700 + fee; Concrete \$2017.56 + fee	22,978.50	(456.00)		22,522.50	3,378.38	2,018	680.94	(37.14)	64.38			28,627	2,863		31,489	(1,294)
153	15-Jan-10		13,884	Avenue Bldg \$693+ \$2229.15; Harris Rebar \$7708 fee; Detailing \$150; Concrete \$326.80 + \$361.20	10,368.00			10,368.00	1,555.20	688						12,611	1,261		13,872	(12)
154	22-Jan-10		12,186	Avenue \$9066.75; Concrete \$1720 + fee	7,850.00			7,850.00	1,177.50	1,720						10,748	1,075		11,822	(364)
155	22-Jan-10		10,969	Avenue \$4437.51; Kapp \$3568.95; Concrete \$1942.50	6,932.00	(456.00)		6,476.00	971.40	1,943						9,390	939		10,329	(640)
156	22-Jan-10		7,954	Kapp \$6049.31 Concrete \$1165.50	5,237.50			5,237.50	785.63	1,166						7,189	719		7,907	(47)
157	22-Jan-10		6,618	Benson Steel \$6002.56	5,197.02			5,197.02	779.55							5,977	598		6,574	(44)
158	22-Jan-10	3,003		Benson Steel <\$3003.23>	(3,003.23)			(3,003.23)								(3,003)			(3,003)	-
159	22-Jan-10		1,869	Benson Steel \$1695.25	1,467.74	(119.00)		1,348.74	202.31							1,551	155		1,706	(163)
160	22-Jan-10		9,135	Benson Steel \$8285.95	7,173.95	(119.00)		7,054.95	1,058.24							8,113	811		8,925	(211)
161	22-Jan-10		3,180	Pipe All \$2884.04	2,497.00	(680.00)		1,817.00	272.55							2,090	209		2,299	(881)
162	22-Jan-10		33,292	Pipe All \$30197.13	25,742.94	(1,190.00)		24,552.94	3,682.94					401.76		28,638	2,864		31,501	(1,791)
163	22-Jan-10		77,239	Pipe All \$70058.02	7,942.29	(1,700.00)		6,242.29	936.34		14,674.98		2,201.25	35,764.40	(300.00)	59,519	5,952		65,471	(11,768)
164	22-Jan-10		3,133	Pipe All \$2841.57	2,460.24			2,460.24	369.04							2,829	283		3,112	(21)
165	22-Jan-10		1,136	Pipe All \$1030.26	892.00	(892.50)		(0.50)	(0.08)							(1)	(0)		(1)	(1,136)
166	22-Jan-10		866	Pipe All \$785.40	680.00	(680.00)		-	-							-	-		-	(866)
167	22-Jan-10		2,943	Pipe All \$2669.67	2,311.41	(510.00)		1,801.41	270.21							2,072	207		2,279	(665)
168	22-Jan-10		3,053	Pipe All \$2769.11	2,397.50	(765.00)		1,632.50	244.88							1,877	188		2,065	(988)
169	22-Jan-10		9,539	Pipe All \$8652.60	7,491.43			7,491.43	1,123.71							8,615	862		9,477	(63)
170	22-Jan-10		4,842	Pipe All \$4391.74	3,802.37	(3,792.00)		10.37	1.56							12	1		13	(4,829)
171	22-Jan-10		30,257	Pipe All \$27444.07				-	-		20,572.38		3,085.86			23,658	2,366		26,024	(4,233)
172	22-Jan-10		2,165	Pipe All \$1963.50	1,700.00	(1,700.00)		-	-							-	-		-	(2,165)
173	22-Jan-10		44,731	Pipe All \$40572.26	35,127.50	(850.00)		34,277.50	5,141.63							39,419	3,942		43,361	(1,370)
174	22-Jan-10		461,166	Pipe All \$418291.34	156,950.62	(6,800.00)		150,150.62	22,522.59		142,065.27		21,309.79	41,121.00	(340.00)	376,829	37,683		414,512	(46,654)
175	22-Jan-10		1,299	Pipe All \$1178.10	1,020.00	(1,020.00)		-	-							-	-		-	(1,299)
176	1-Mar-10		14,513	Pipe All \$13163.68	425.00	(425.00)		-	-		9,499.68		1,424.95			10,925	1,092		12,017	(2,496)
177	1-Mar-10		3,178	Pipe All \$2882.88	2,496.00	(2,321.00)		175.00	26.25							201	20		221	(2,957)
178	1-Mar-10		20,876	Pipe All \$18935.53	1,214.40			1,214.40	182.16					15,180.00		16,577	1,658		18,234	(2,642)
179	1-Mar-10		11,422	Pipe All \$10359.64	8,969.38			8,969.38	1,345.41							10,315	1,031		11,346	(75)
180	1-Mar-10		11,113	Pipe All \$10080.03	8,727.30	(510.00)		8,217.30	1,232.60							9,450	945		10,395	(718)
181	1-Mar-10		2,165	Pipe All \$1963.50	1,700.00	(1,700.00)		-	-							-	-		-	(2,165)
182	1-Mar-10		5,321	Pipe All \$4825.96	4,178.32	(340.00)		3,838.32	575.75							4,414	441		4,855	(465)
183	1-Mar-10		136,127	Allmar \$21241.77+ \$59747.33 + \$42482.49				-	-	106,901.81						106,902	10,690		117,592	(18,535)
184	1-Mar-10		8,939	Basic Industries \$7020 quote +fee				-	-	7,020						7,020	702		7,722	(1,217)
185	1-Mar-10		16,408	Accel \$14882.58	12,885.35	(1,042.58)		11,842.77	1,776.42							13,619	1,362		14,981	(1,427)
186	1-Mar-10		40,548	Accel \$36778.15	31,842.55	(2,155.23)		29,687.32	4,453.10							34,140	3,414		37,554	(2,993)
187	1-Mar-10		1,621	Accel \$1470.13	1,272.84	(33.88)		1,238.96	185.84							1,425	142		1,567	(54)
188	1-Mar-10		28,698	Accel \$26030.18	22,536.95	(1,762.53)		20,774.42	3,116.16							23,891	2,389		26,280	(2,419)
189	11-Mar-10		15,929	Accel \$13830.36; Lynx \$535 quote + fee	11,974.34	(578.27)		11,396.07	1,709.41	535						13,640	1,364		15,005	(925)
190	11-Mar-10		4,203	Accel \$3812.41	3,300.79	(279.51)		3,021.28	453.19							3,474	347		3,822	(381)
191	11-Mar-10		34,182	Accel \$31004.14	26,843.41	(1,693.23)		25,150.18	3,772.53							28,923	2,892		31,815	(2,367)
192	11-Mar-10		2,071	Accel \$1878.58	1,626.47	(131.67)		1,494.80	224.22							1,719	172		1,891	(180)
193	11-Mar-10		3,820	Accel \$3464.63	2,999.68	(231.77)		2,767.91	415.19							3,183	318		3,501	(318)
194	11-Mar-10		8,865	Accel \$8040.54	6,961.51	(523.60)		6,437.91	965.69							7,404	740		8,144	(721)
195	11-Mar-10		12,149	Pipe All \$11019.61	425.00	(425.00)		-	-		7,892.46		1,183.87			9,076	908		9,984	(2,165)
196	16-Apr-10		5,385	Accel \$4884.57	4,229.06	(298.76)		3,930.30	589.55							4,520	452		4,972	(413)
197	16-Apr-10		118,474	Pipe All \$107459.16	1,190.00	(1,190.00)		-	-		79,522.29		11,928.34			91,451	9,145		100,596	(17,878)
198	16-Apr-10		2,439	Accel \$2212.12	1,915.25	(157.08)		1,758.17	263.73							2,022	202		2,224	(215)
199	16-Apr-10		14,371	Pipe All \$13034.50	11,285.28	(340.00)		10,945.28	1,641.79							12,587	1,259		13,846	(525)
200	16-Apr-10		3,857	Accel \$3498.01	3,028.58	(51.35)		2,977.23	446.58							3,424	342		3,766	(90)
201	16-Apr-10		2,919	Accel \$2647.42	2,292.14	(150.89)		2,141.25	321.19							2,462	246		2,709	(210)
202	16-Apr-10		5,627	Accel \$5103.92	4,418.98	(338.12)		4,080.86	612.13							4,693	469		5,162	(465)
203	16-Apr-10		44,499	Pipe All \$40362.27	34,945.69			34,945.69	5,241.85							40,188	4,019		44,206	(293)
204	16-Apr-10		5,749	Pipe All \$5214.83				-	-					4,515.00		4,515	452		4,967	(783)
205	16-Apr-10		1,002	Accel \$908.64	786.70	(54.67)		732.03	109.80							842	84		926	(76)
206	27-May		26,819	Pipe All \$24325.36	510.00	(510.00)		-	-		17,793.00		2,668.95			20,462	2,046		22,508	(4,311)

APPENDIX E - CO Recal

CO	Issue Date	Credit Amount	Extra Amount	Subcontractor	1st Tier Subcontractor Amt	Unallowable Costs on 1st Tier Sub	Other Adjustments	Subtotal	15% Sub Fee	1st Tier Sub Amt, fee included	2nd tier sub	Unallowed Costs on 2nd tier sub	15% fee on 2nd tier sub	2nd tier sub, fee included	Unallowable costs on 2nd tier sub, fee included	Subtotal	10% GC Fee	Credit not Properly Applied	Total	Difference
207	27-May		28,827	Pipe All \$26147.09	4,228.00	(1,700.00)		2,528.00	379.20		15,939.54					21,238	2,124		23,361	(5,466)
208	27-May		9,857	Pipe All \$8940.20	7,740.44	(570.00)		7,170.44	1,075.57							8,246	825		9,071	(786)
209	27-May		7,490	Pipe All \$2460.71; Nelmar \$4332.65	3,751.21			3,751.21	562.68					2,130.48	(122.40)	6,322	632		6,954	(536)
210	27-May	475		Pipe All <\$474.89>	(474.89)			(474.89)								(475)			(475)	-
211	27-May		44,500	Pipe All \$40362.92	2,550.00	(2,550.00)		-	-		11,680.74		1,752.11	18,904.31		32,337	3,234		35,571	(8,929)
212	27-May		1,702	Pipe All \$1543.66	1,336.50			1,336.50	200.48							1,537	154		1,691	(11)
213	27-May		4,559	Pipe All \$4135.15				-	-		3,099.75		464.96			3,565	356		3,921	(638)
214	27-May		146,394	Accel \$132783.72	114,964.26	(4,707.61)		110,256.65	16,538.50							126,795	12,680		139,475	(6,919)
215	27-May		7,231	Accel \$6559.12	5,678.89	(389.47)		5,289.42	793.41							6,083	608		6,691	(540)
216	27-May	3,207		Pipe All <\$3207.31>	(3,207.31)			(3,207.31)								(3,207)			(3,207)	-
217	27-May		4,323	Pipe All \$3920.98	3,394.79	(285.00)		3,109.79	466.47							3,576	358		3,934	(389)
218	27-May		18,286	Accel \$14125.39; Lynx \$2461	12,229.77	(469.26)		11,760.51	1,764.08	2,461						15,986	1,599		17,584	(702)
219	27-May		19,782	Nelmar \$16002.31; Platinum \$1940.40	13,854.81			13,854.81	2,078.22	1,680						17,613	1,761		19,374	(407)
220	27-May		56,666	Lynx \$44500 quote + fee				-	-	44,500						44,500	4,450		48,950	(7,716)
221	27-May		6,092	Pipe All \$5526.02	4,784.44	(680.00)		4,104.44	615.67							4,720	472		5,192	(900)
222	27-May		32,040	Pipe All \$29061.29	1,020.00	(1,020.00)		-	-		13,307.00		1,996.05	8,771.70		24,075	2,407		26,482	(5,558)
223	27-May		187,345	Kapp \$152090.40; Maystar \$16320	131,680.00			131,680.00	19,752.00	16,320						167,752	16,775		184,527	(2,818)
224	27-May		5,712	Pipe All \$5181.29	4,485.96	(1,520.00)		2,965.96	444.89							3,411	341		3,752	(1,960)
225	27-May		67,580	Camino \$61296.69	53,070.73			53,070.73	7,960.61							61,031	6,103		67,134	(445)
226	27-May		42,499	Accel \$38547.71	33,374.64	(2,276.78)		31,097.86	4,664.68							35,763	3,576		39,339	(3,160)
227	22-Jun-10	5,400		Kone <\$5400>	(5,400.00)			(5,400.00)								-			(5,400)	-
228	22-Jun-10		18,712	Avenue \$11300.52; Pipe All \$1963.50; Harris Rebar \$1280.75 + fee; Concrete \$2229.12	12,764.75			12,764.75	1,914.71	2,229						16,909	1,691		18,599	(113)
229	22-Jun-10		27,641	Allmar \$4537.64 + fee +1508.76 + fee; Stefcon \$1900 + fee; APS \$3084 + \$4389; Ritz \$4582.73; Core Metals \$3350.76 + fee	10,454.98			10,454.98	1,568.25	11,297						23,320	2,332		25,652	(1,989)
230	22-Jun-10		13,008	Nelmar \$10215.19 quote + fee				-	-	10,215						10,215	1,022		11,237	(1,771)
231	22-Jun-10		7,298	Novascape \$5949.76; CIC Irrig \$580 quote plus fee	5,151.30			5,151.30	772.70	580						6,504	650		7,154	(144)
232	22-Jun-10		68,823	Pipe All \$52897.36; Nelmar \$9180.38; Platinum Painting \$300 quote + fee	48,202.96	(2,850.00)		45,352.96	6,802.94	300	4,800.00		720.00			57,976	5,798		63,773	(5,049)
233	22-Jun-10		1,948	Pipe All \$1767.15	1,530.00			1,530.00	229.50							1,760	176		1,935	(13)
234	22-Jun-10		16,248	Kapp \$14737.80	12,760.00			12,760.00	1,914.00							14,674	1,467		16,141	(107)
235	22-Jun-10		20,859	Pipe All \$18258.24; Benson Steel \$661.82	10,123.00	(1,900.00)		8,223.00	1,233.45					6,258.00	(170.00)	15,544	1,554		17,099	(3,760)
236	22-Jun-10		93,488	Allmar \$73416.82 + fee				-	-	73,417						73,417	7,342		80,759	(12,730)
237	22-Jun-10		112,541	Accel \$13022.46; Allmar \$72500 + fee + <\$2636> + fee; Lynx \$7240 quote + fee	11,274.85	(881.65)		10,393.20	1,558.98	77,104						89,056	8,906		97,962	(14,579)
238	22-Jun-10		15,995	Ritz \$14508.30	12,561.30			12,561.30	1,884.20							14,445	1,445		15,890	(105)
239	22-Jun-10	499		Accel <\$498.99>	(498.99)	26.95		(472.04)								(472)			(472)	27
240	22-Jun-10		11,073	Accel \$10043.62	8,695.77	(632.17)		8,063.60	1,209.54							9,273	927		10,200	(873)
241	22-Jun-10		4,213	Accel \$3820.95	3,308.18	(261.80)		3,046.38	456.96							3,503	350		3,854	(359)
242	22-Jun-10		141,339	Williams Food Equip \$130869	130,869.38			130,869.38								130,869	10,470		141,339	0
243	22-Jun-10		98,266	Benson Steel \$6806.27; Harris Rebar mat \$49657.85 + fee + labor \$18068.28 + fee; detailing \$2080 + fee; Vixman \$1470 + fee	77,169.00			77,169.00	11,575.35							88,744	8,874		97,619	(647)
244	22-Jun-10		20,678	Benson Steel \$18755.64 incl \$511.68 PST	16,238.64	(238.00)		16,000.64	2,400.10							18,401	1,840		20,241	(437)
245	16-Jul-10	7,002		Pipe All <\$7001.63>	(6,221.63)			(6,221.63)						(780.00)		(7,002)			(7,002)	-
246	16-Jul-10		67,217	Pipe All \$60967.39 (3rd tier -Johnson Controls \$9760)	3,040.00	(3,040.00)		-	-	780				47,331.00	(340.00)	47,771	4,777		52,549	(14,668)
247	16-Jul-10		5,150	Pipe All \$2864.48; Stefcon \$1564 quote + fee	2,480.07	(570.00)		1,910.07	286.51	1,564						3,761	376		4,137	(1,013)
248	16-Jul-10		21,544	Pipe All \$19541.45	760.00	(760.00)		-	-					16,159.00		16,159	1,616		17,775	(3,770)
249	16-Jul-10		5,763	Harris Rebar \$5226.81	4,525.38			4,525.38	678.81							5,204	520		5,725	(38)
250	16-Jul-10		10,187	D & D \$8000 + fee				-	-	8,000						8,000	800		8,800	(1,387)
251	16-Jul-10		4,434	TMT \$4021.94	3,482.20			3,482.20	522.33							4,005	400		4,405	(29)
252	16-Jul-10		31,201	Ritz \$24502 quote + fee				-	-	24,502						24,502	2,450		26,952	(4,248)
253	16-Jul-10		300,251	Accel \$238.26 + \$1717.23; Suburban Propane \$26126.76 + \$118572.98 + \$125681.24	1,693.16			1,693.16	253.97	270,381						272,328	27,233		299,561	(690)



APPENDIX E - CO Recalc

CO	Issue Date	Credit Amount	Extra Amount	Subcontractor	1st Tier Subcontractor Amt	Unallowable Costs on 1st Tier Sub	Other Adjustments	Subtotal	15% Sub Fee	1st Tier Sub Amt, fee included	2nd tier sub	Unallowed Costs on 2nd tier sub	15% fee on 2nd tier sub	2nd tier sub, fee included	Unallowable costs on 2nd tier sub, fee included	Subtotal	10% GC Fee	Credit not Properly Applied	Total	Difference
254	16-Jul-10		4,734	Pipe All \$4294.01	475.00	(475.00)		-	-					421.14		3,229	323		3,552	(1,183)
255	16-Jul-10		2,249	Pipe All \$2040.15	285.00	(285.00)		-	-		1,282.56			192.38		1,475	147		1,622	(627)
256	16-Jul-10		1,643	Pipe All \$1489.95	285.00	(285.00)		-	-					1,005.00		1,005	101		1,106	(537)
257	16-Jul-10		125,000	Benson \$125000	125,000.00			125,000.00								125,000			125,000	-
258	16-Jul-10		73,405	Camino \$66580.51	57,645.46			57,645.46	8,646.82							66,292	6,629		72,922	(484)
259	16-Jul-10		78,598	Avenue \$30943.61; Harris Rebar \$3865.75 + fee; Kapp \$22418.55; Aquanorth \$1740.58; Dewatering \$1750 + fee = equip \$275.75; Concrete \$8118.40	54,738.00			54,738.00	8,210.70	8,118						71,067	7,107		78,174	(424)
260	16-Jul-10		1,752	Avenue \$1589.28	1,376.00			1,376.00	206.40							1,582	158		1,741	(12)
261	26-Jul-10		1,650,579	Lynx \$1571980	1,571,980.00			1,571,980.00								1,571,980	78,599		1,650,579	-
262	23-Aug-10	499		Accel <\$498.99>	(498.99)	498.99		-	-							-	-		-	499
263	23-Aug-10		161,292	Nelmar \$146296.71	126,663.82			126,663.82	18,999.57							145,663	14,566		160,230	(1,062)
264	23-Aug-10		37,749	Accel \$34239.08	29,556.68	(2,449.00)		27,107.68	4,066.15							31,174	3,117		34,291	(3,457)
265	23-Aug-10		14,500	Pro-Bel \$11387 unit px + fee				-	-	11,387						11,387	1,139		12,526	(1,974)
266	23-Aug-10		2,467	Accel \$2237.19	1,936.96			1,936.96	290.54							2,228	223		2,450	(16)
267	23-Aug-10		716	Nelmar \$562.47 + fee				-	-	562						562	56		619	(98)
268	23-Aug-10		7,912	Allmar \$6212.96 + fee	6,213.00		(4,942.96)	1,270.04	190.51							1,461	146		1,607	(6,305)
269	23-Aug-10		10,423	Pipe All \$9453.63	8,184.96	(340.00)		7,844.96	1,176.74							9,022	902		9,924	(499)
270	23-Aug-10		3,737	Novascape \$3389.19	2,934.36			2,934.36	440.15							3,375	337		3,712	(25)
271	23-Aug-10		6,734	Core Metal \$5288.32 + fee				-	-	5,288						5,288	529		5,817	(917)
272	23-Aug-10		8,830	Nelmar \$8008.99	6,934.19			6,934.19	1,040.13							7,974	797		8,772	(58)
273	23-Aug-10		120,590	Kapp \$94700 quote + fee				-	-	94,700						94,700	9,470		104,170	(16,420)
274	23-Aug-10		4,912	Pipe All \$4455.30	3,857.40	(285.00)		3,572.40	535.86							4,108	411		4,519	(393)
275	24-Sep-10		618	Harris Rebar \$485 + fee	485.00			485.00	72.75							558	56		614	(4)
276	24-Sep-10		30,730	Avenue \$1246.07; Benson Steel 415513.57; Const. Spec \$11032.56; Concrete \$80.84	14,510.51			14,510.51	2,176.58	11,113						27,800	2,780		30,581	(149)
277	24-Sep-10		6,263	Avenue \$472.11; Benson Steel \$5129.46; Concrete \$79.12	4,849.84	(238.00)		4,611.84	691.78	79						5,383	538		5,921	(342)
278	24-Sep-10		17,084	Pipe \$10502.82; Nelmar \$4992.85	4,747.81	(425.00)		4,322.81	648.42		7,505.06		1,125.76			13,602	1,360		14,962	(2,122)
279	24-Sep-10		1,886	Pipe All \$1710.30	1,480.78	(170.00)		1,310.78	196.62							1,507	151		1,658	(227)
280	24-Sep-10		14,555	Pipe All \$13201.65	1,140.00	(1,140.00)		-	-					10,290.00		10,290	1,029		11,319	(3,236)
281	24-Sep-10		108,043	Pipe All \$93888.49; TMT \$4109.30	7,357.84	(3,800.00)		3,557.84	533.68		67,089.81		10,063.47			81,245	8,124		89,369	(18,673)
282	24-Sep-10		63,536	Pipe All \$57628.73	1,700.00	(1,700.00)		-	-					48,195.00		48,195	4,820		53,015	(10,521)
283	24-Sep-10		45,513	Basic Industries \$39405 + fee				-	-	39,405						39,405			39,405	(6,108)
284	1-Nov-10		44,413	Benson Steel \$40283.88	34,877.82	(476.00)		34,401.82	5,160.27							39,562	3,956		43,518	(895)
285	1-Nov-10		-					-	-							-			-	
286	1-Nov-10		34,304	Nelmar \$9016.83; Accel \$2173.38; Pipe All \$19404.56; Allmar \$450 + fee	10,258.50	(712.20)		9,546.30	1,431.95	450				16,230.00	(170.00)	27,488	2,749		30,237	(4,067)
287	1-Nov-10		18,582	Pipe All \$11949.63; Nelmar \$4905.04	5,006.79	(760.00)		4,246.79	637.02					9,586.00		14,470	1,447		15,917	(2,665)
288	1-Nov-10		2,763	Pipe All \$2505.92	2,169.63	(380.00)		1,789.63	268.44							2,058	206		2,264	(499)
289	1-Nov-10		18,120	Pipe All \$16117.97; Aquanorth \$275 + fee	13,954.95	(425.00)		13,529.95	2,029.49	275						15,834	1,583		17,418	(702)
290	1-Nov-10		1,945	Pipe All \$1763.80	653.92	(340.00)		313.92	47.09		756.00		113.40			1,230	123		1,353	(591)
291	1-Nov-10		3,532	Pipe All \$3203.68	255.00	(255.00)		-	-		2,180.75		327.11			2,508	251		2,759	(773)
292	1-Nov-10		33,130	Pipe All \$30049.48	22,811.04	(3,800.00)		19,011.04	2,851.66		2,775.60	(125.00)	397.59			24,911	2,491		27,402	(5,728)
293	1-Nov-10		16,091	Pipe All \$3003; Harris Rebar \$454 fee; Avenue Bldg \$3241.85; Kapp \$7507.50; Concrete \$275.20 + fee	12,360.80			12,360.80	1,854.12	275						14,490	1,449		15,939	(151)
294	1-Nov-10		84,163	Pipe All \$63889.07; Nelmar \$10009.07; Accel \$2440.06	46,443.37	(444.58)		45,998.79	6,899.82		17,013.25		2,551.99			72,464	7,246		79,710	(4,453)
295	1-Nov-10		15,427	Pipe All \$3714.48; Accel \$846.94; Nelmar \$8645.69; Platinum \$680 quote + fee	8,408.73	(227.13)		8,181.60	1,227.24	680				3,026.00		13,115	1,311		14,426	(1,000)
296	1-Nov-10		3,542	Nelmar \$2520.09; Platinum \$600 + fee	2,181.90			2,181.90	327.29	600						3,109	311		3,420	(122)
297	1-Nov-10		14,394	Pipe All \$13055.55	3,420.00	(3,420.00)		-	-		6,825.55		1,023.83			7,849	785		8,634	(5,759)
298	1-Nov-10		598	Accel \$542.62	469.80	(35.55)		434.25	65.14							499	50		549	(49)
299	1-Nov-10		122,926	Pipe All \$111497.93	2,280.00	(2,280.00)		-	-					94,255.00		94,255	9,426		103,681	(19,246)
300	1-Nov-10		37,883	Accel \$34360.74	29,749.55	(1,874.95)		27,874.60	4,181.19							32,056	3,206		35,261	(2,621)
301	1-Nov-10		8,659	Pipe All \$7854	6,800.00			6,800.00	1,020.00							7,820	782		8,602	(57)

APPENDIX E - CO Recalc

CO	Issue Date	Credit Amount	Extra Amount	Subcontractor	1st Tier Subcontractor Amt	Unallowable Costs on 1st Tier Sub	Other Adjustments	Subtotal	15% Sub Fee	1st Tier Sub Amt, fee included	2nd tier sub	Unallowed Costs on 2nd tier sub	15% fee on 2nd tier sub	2nd tier sub, fee included	Unallowable costs on 2nd tier sub, fee included	Subtotal	10% GC Fee	Credit not Not Properly Applied	Total	Difference
302	1-Nov-10		35,001	Benson Steel \$227.25; Avenue \$21681.66; concrete \$2820.80; Harris rebar \$59445.50 + fee; Detailing \$130 + fee	25,044.25			25,044.25	3,756.64	2,821						31,622	3,162		34,784	(217)
303	1-Nov-10	3,979		Benson Steel <\$3978.74>	(3,978.74)			(3,978.74)								(3,979)			(3,979)	-
304	1-Nov-10		2,094	Nelmar \$1899.74	1,644.80			1,644.80	246.72							1,892	189		2,081	(14)
305	1-Nov-10		10,085	Pipe All \$9147.60	7,920.00	(1,520.00)		6,400.00	960.00							7,360	736		8,096	(1,989)
306	1-Nov-10		8,735	Pipe All \$7923.30	6,860.00	(950.00)		5,910.00	886.50							6,797	680		7,476	(1,259)
307	1-Nov-10	942		Nelmar <\$941.72>	(941.72)			(941.72)								(942)			(942)	-
308	1-Nov-10		114,655	Kapp \$12023.55; Avenue \$51146.87; Pipe All \$10865.18; Harris Rebar\$20580 + \$200 freight + fee; Concrete \$5779.20	84,680.08	(850.00)		83,830.08	12,574.51	5,779						102,184	10,218		112,402	(2,253)
309	1-Nov-10		2,023	Nelmar\$1834.89	1,588.65			1,588.65	238.30							1,827	183		2,010	(13)
310	1-Nov-10		6,536	Avenue \$3184.91; Insulation \$1127.50; WWM \$153.75; Concrete \$1462	2,757.50			2,757.50	413.63	2,743						5,914	591		6,506	(30)
311	1-Nov-10		114,605	BJ Tiles \$103950	90,000.00			90,000.00	13,500.00							103,500	10,350		113,850	(755)
312	1-Nov-10		862	Benson \$782.06	677.11			677.11	101.57							779	78		857	(6)
313	1-Nov-10		10,606	Accel \$7390.35; Lynx \$1930 quote + fee	6,398.57	(506.39)		5,892.18	883.83	1,930						8,706	871		9,577	(1,029)
314	1-Nov-10	2,995		Interior Decorators <\$2995.20>	(2,995.20)			(2,995.20)								(2,995)			(2,995)	-
315	1-Nov-10		166,960	Pipe All \$131115.04 quote+ fee	82,645.01	(11,400.00)		71,245.01	10,686.75		16,681.83		2,502.27	11,607.00		112,723	11,272		123,995	(42,965)
316	1-Nov-10		3,782	Nelmar \$3429.97	2,969.67			2,969.67	445.45							3,415	342		3,757	(25)
317	1-Nov-10		4,387	Nelmar \$3978.92	3,444.95			3,444.95	516.74							3,962	396		4,358	(29)
318	1-Nov-10		1,203	Nelmar \$1091.29	944.84			944.84	141.73							1,087	109		1,195	(8)
319	1-Nov-10		6,398	Accel \$5803.55	5,024.72	(338.80)		4,685.92	702.89							5,389	539		5,928	(471)
320	1-Nov-10		5,060	Nelmar \$3973.31 quote + fee				-	-	3,973						3,973	397		4,371	(689)
321	1-Nov-10		2,090	Nelmar \$1641.56 quote + fee				-	-	1,642						1,642	164		1,806	(285)
322	1-Nov-10		3,590	TMT \$3255.95	2,819.00			2,819.00	422.85							3,242	324		3,566	(24)
323	1-Nov-10		2,766	Accel \$2509.24	2,172.50	(197.50)		1,975.00	296.25							2,271	227		2,498	(268)
324	1-Nov-10		8,547	Pipe All \$7752.36	380.00	(380.00)		-	-					6,332.00		6,332	633		6,965	(1,582)
325	1-Nov-10		4,646	Const. Spec \$3648.48 quote + fee				-	-	3,648						3,648	365		4,013	(633)
326	1-Nov-10		11,257	Commercial Vision quote \$8840 + fee				-	-	8,840						8,840	884		9,724	(1,533)
327	1-Nov-10		3,076	Nelmar \$2789.69	2,415.32			2,415.32	362.30							2,778	278		3,055	(20)
328	1-Nov-10		1,117	Allwood \$877 + fee				-	-	877						877	88		965	(152)
329	2-Dec-10		6,723	Lynx \$5280 quote + fee				-	-	5,280						5,280	528		5,808	(915)
330	2-Dec-10		2,124	Lynx \$1668 quote + fee				-	-	1,668						1,668	167		1,835	(289)
331	2-Dec-10		5,125	Lynx \$4025 quote + fee				-	-	4,025						4,025	403		4,428	(698)
332	2-Dec-10		22,216	Pipe All \$17446	855.00	(855.00)		-	-					16,591.00	(340.00)	16,251	1,625		17,876	(4,339)
333	2-Dec-10		52,814	Pipe All \$41475.41	2,650.88	(1,140.00)		1,510.88	226.63		33,614.31		5,042.15			40,394	4,039		44,433	(8,381)
334	2-Dec-10		33,763	Pipe All \$30623.67	950.00	(950.00)		-	-					25,564.00	(340.00)	25,224	2,522		27,746	(6,016)
335	2-Dec-10		16,976	Pipe All \$15397.98	13,331.58	(2,280.00)		11,051.58	1,657.74							12,709	1,271		13,980	(2,996)
336	2-Dec-10		17,074	Pipe All \$15486.35	7,850.00	(950.00)		6,900.00	1,035.00		4,812.10		721.82			13,469	1,347		14,816	(2,258)
337	2-Dec-10		13,141	Italinteriors \$10320 quote + fee				-	-	10,320						10,320	1,032		11,352	(1,789)
338	2-Dec-10		11,043	TMT \$10016.16	8,672.00			8,672.00	1,300.80							9,973	997		10,970	(73)
339	2-Dec-10		950	Nelmar \$746.42	746.42			746.42	111.96							858	86		944	(6)
340	2-Dec-10		37,382	Platinum \$16580 quote + fee; Allwood \$5496.49 + fee; Inter Co \$7280 quote + fee	5,496.49			5,496.49	824.47	23,860						30,181	3,018		33,199	(4,183)
341	2-Dec-10	4,920		Italinteriors <\$4920>	(4,920.00)			(4,920.00)								(4,920)			(4,920)	-
342	2-Dec-10		2,702	BJ Tiles \$1930; Camino \$521.08	2,122.15			2,122.15	318.32							2,440	244		2,685	(18)
343	2-Dec-10		1,519	D & D 1193 quote + fee				-	-	1,193						1,193	119		1,312	(207)
344	2-Dec-10		771,622	Lynx \$605960 quote + fee				-	-	605,960						605,960	60,596		666,556	(105,066)
345	2-Dec-10		258,414	Lynx \$202934.68 quote + fee				-	-	202,935						202,935	20,293		223,228	(35,186)
346	2-Dec-10		1,072	Allmar \$841.50 quote + fee				-	-	842						842	84		926	(146)
347	2-Dec-10		3,330	Allmar \$2614.80 quote + fee				-	-	2,615						2,615	261		2,876	(453)
348	2-Dec-10		9,986	Williams Food Equip \$7842	7,842.00			7,842.00	1,176.30							9,018	902		9,920	(66)
349	2-Dec-10		1,584	Nelmar \$1437.13	1,244.27			1,244.27	186.64							1,431	143		1,574	(10)
350	22-Dec-10		3,316	Nelmar \$3007.71	2,604.08			2,604.08	390.61							2,995	299		3,294	(22)
351	22-Dec-10		3,907	Pipe All \$3544.21	255.00	(255.00)		-	-		2,436.00		365.40			2,801	280		3,082	(826)
352	22-Dec-10		16,154	Pipe All \$14652.33	570.00	(570.00)		-	-					12,116.00		12,116	1,212		13,328	(2,827)
353	22-Dec-10		9,436	Italinteriors \$7410 quote + fee				-	-	7,410						7,410	741		8,151	(1,285)
354	22-Dec-10		15,586	BJ Tiles \$14137.20	12,240.00			12,240.00	1,836.00							14,076	1,408		15,484	(103)
355	22-Dec-10		8,513	Nelmar \$3592.51; Avenue \$2452.20; Harris Rebar \$1190 + fee; Concrete \$302.72	6,423.60			6,423.60	963.54	303						7,690	769		8,459	(55)
356	22-Dec-10		4,267	Allmar \$3350.67 quote + fee				-	-	3,351						3,351	335		3,686	(581)

APPENDIX E - CO Recalc

CO	Issue Date	Credit Amount	Extra Amount	Subcontractor	1st Tier Subcontractor Amt	Unallowable Costs on 1st Tier Sub	Other Adjustments	Subtotal	15% Sub Fee	1st Tier Sub Amt, fee included	2nd tier sub	Unallowed Costs on 2nd tier sub	15% fee on 2nd tier sub	2nd tier sub, fee included	Unallowable costs on 2nd tier sub, fee included	Subtotal	10% GC Fee	Credit not Not Properly Applied	Total	Difference
357	22-Dec-10		1,867	Allmar \$1466.26 quote + fee				-	-	1,466					1,466	147			1,613	(254)
358	22-Dec-10		923	GRB Storage \$725 quote + fee				-	-	725					725	73			798	(126)
359	22-Dec-10	950		Nelmar <\$900.44>; Platinum <\$50>	(950.44)			(950.44)							(950)				(950)	-
360	22-Dec-10		46,875	Novascape \$42517.28	36,811.50			36,811.50	5,521.73						42,333	4,233			46,567	(309)
361	22-Dec-10		8,567	Accel \$4548.40; Graff \$2790 quote + fee	3,938.01	(292.30)		3,645.71	546.86	2,790					6,983	698			7,681	(887)
362	22-Dec-10	8,517		TMT <\$8912>; Platinum \$310 quote + fee	(8,912.00)			(8,912.00)		310					(8,602)				(8,602)	(85)
363	22-Dec-10	4,325		Allwood <\$4324.90>	(4,324.90)			(4,324.90)							(4,325)				(4,325)	-
364	22-Dec-10		7,369	Argo Lumber \$2567.81; Maystar labor \$3564	3,564.00			3,564.00	534.60	2,568					6,666	667			7,333	(36)
365	22-Dec-10		9,371	Nelmar \$8499.46	7,358.84			7,358.84	1,103.83						8,463	846			9,309	(62)
366	22-Dec-10		3,964	Platinum \$360 quote + fee; Nelmar \$2721.32; Allmar \$397.15 quote + fee	2,356.12			2,356.12	353.42	757					3,467	347			3,813	(151)
367	22-Dec-10		7,607	Spacesaver \$6900				-	-	6,900					6,900	690			7,590	(17)
368	22-Dec-10		1,993	Muia Steel \$1565 quote + fee				-	-	1,565					1,565	157			1,722	(271)
369	22-Dec-10		3,303	Accel \$2995.49	2,593.50	(188.02)		2,405.48	360.82						2,766	277			3,043	(260)
370	22-Dec-10		1,968	Accel \$1784.94	1,545.40	(126.40)		1,419.00	212.85						1,632	163			1,795	(173)
371	22-Dec-10		8,884	Pipe All \$8058.44	1,140.00	(1,140.00)		-	-					5,837.00	(340.00)	5,497	550		6,047	(2,838)
372	22-Dec-10		2,564	Platinum \$450 quote + fee; Nelmar \$1806.06	1,563.69			1,563.69	234.55	450					2,248	225			2,473	(91)
373	22-Dec-10		5,321	Pipe All \$4825.89	4,178.27			4,178.27	626.74						4,805	481			5,286	(35)
374	22-Dec-10		3,768	Nelmar \$3417.45	2,958.83			2,958.83	443.82						3,403	340			3,743	(25)
375	22-Dec-10		68,349	Pipe All \$61994.11	44,514.55	(1,896.00)		42,618.55	6,392.78					9,160.00	(340.00)	57,831	5,783		63,614	(4,734)
376	22-Dec-10		718	Benson Steel \$651.42	564.00			564.00	84.60						649	65			713	(5)
377	22-Dec-10		2,965	Camino \$2689.48	2,328.55			2,328.55	349.28						2,678	268			2,946	(20)
378	22-Dec-10		1,946	Benson Steel \$1764.84	1,528.00			1,528.00	229.20						1,757	176			1,933	(13)
379	22-Dec-10		2,407	Lynx \$1890 quote + fee				-	-	1,890					1,890	189			2,079	(328)
380	22-Dec-10	3,520		Basic <\$3520>	(3,520.00)			(3,520.00)							(3,520)				(3,520)	-
381	22-Dec-10		11,581	Pipe All \$10504.73	1,900.00	(1,900.00)		-	-					7,195.00	7,195	720			7,915	(3,667)
382	22-Dec-10		19,869	Pipe All \$18021.95	15,603.42	(2,280.00)		13,323.42	1,998.51						15,322	1,532			16,854	(3,015)
383	22-Dec-10		29,024	Nelmar \$26325.88	22,792.97			22,792.97	3,418.95						26,212	2,621			28,833	(191)
384	22-Dec-10		8,495	Pipe All \$6723.81; Triumph \$850 quote + fee	2,420.00	(1,520.00)		900.00	135.00	850	2,945.00			441.75	5,272	527			5,799	(2,696)
385	22-Dec-10		8,781	Pipe All \$7510.37; CIC \$393.61 quote + fee	6,502.49	(1,140.00)		5,362.49	804.37	394					6,560	656			7,217	(1,565)
386	22-Dec-10		8,325	Pipe All \$7550.58				-	-		5,660.00		849.00		6,509	651			7,160	(1,165)
387	22-Dec-10		4,956	Pipe All \$4495.03	3,891.80	(950.00)		2,941.80	441.27						3,383	338			3,721	(1,234)
388	22-Dec-10	3		Pipe All <\$3.16>	(3.16)	(475.00)		(478.16)							(478)				(478)	(475)
389	22-Dec-10	331		Pipe All <\$330.65>				-	-					(330.65)	(331)				(331)	-
390	22-Dec-10		5,327	Pipe All \$3597.55; Nelmar \$1233.92	1,258.33	(190.00)		1,068.33	160.25		2,532.26		379.84		4,141	414			4,555	(772)
391	22-Dec-10		10,333	Pipe All \$8549.61; Camino \$822.76	997.35	(285.00)		712.35	106.85		6,162.13		924.32		7,906	791			8,696	(1,637)
392	22-Dec-10		1,285	Pipe All \$815.56; Nelmar \$349.99	398.02	(95.00)		303.02	45.45		529.10		79.37		957	96			1,053	(232)
393	22-Dec-10		14,071	Pipe All \$12762.75	760.00	(760.00)		-	-				10,290.00		10,290	1,029			11,319	(2,752)
394	31-Jan-11		1,513	Pipe All \$1372.05	1,187.92	(190.00)		997.92	149.69						1,148	115			1,262	(250)
395	31-Jan-11		7,390	Pipe All \$6702.96	5,803.43	(720.00)		5,083.43	762.51						5,846	585			6,431	(959)
396	31-Jan-11		1,560	Pipe All \$973.86; Camino \$440.86	476.70	(95.00)		381.70	57.26		647.76		97.16		1,184	118			1,302	(257)
397	31-Jan-11		12,398	Pipe All \$1976.68; Nelmar \$2975.82; Basic \$5492; Maystar \$800	8,214.47	(190.00)		8,024.47	1,203.67		1,317.24		197.59		10,743	1,074			11,817	(580)
398	31-Jan-11		2,321	Allmar \$414.22 + \$864.34 + \$544.50 quotes + fee				-	-	1,823					1,823	182			2,005	(316)
399	31-Jan-11		4,841	Muia Steel \$3802 quote + fee				-	-	3,802					3,802	380			4,182	(659)
400	31-Jan-11		480,436	Lynx \$435770 quote				-	-	435,770					435,770	43,577			479,347	(1,089)
401	31-Jan-11		101,921	Lynx \$92445 quote				-	-	92,445					92,445	9,245			101,690	(231)
402	31-Jan-11	2,700		Pipe All <\$2700>				-	-					(2,700.00)	(2,700)				(2,700)	-
403	31-Jan-11		5,015	Basic \$4548.39	3,938.00			3,938.00	590.70						4,529	453			4,982	(33)
404	31-Jan-11		14,683	Pipe All \$13317.61	475.00	(475.00)		-	-		4,680.00		702.00	5,650.00	11,032	1,103			12,135	(2,547)
405	31-Jan-11		1,192	Pipe All \$1081.34	(1,400.70)	(340.00)		(1,740.70)	(261.11)		756.00		113.40	1,463.75	331	33			364	(828)
406	31-Jan-11		2,343	Muia Steel \$2125.20				-	-	1,840					1,840	184			2,024	(319)
407	31-Jan-11		52,127	Pipe All \$47281.08	1,140.00	(1,140.00)		-	-					39,796.00	39,796	3,980			43,776	(8,352)
408	31-Jan-11		8,336	Pipe All \$7560.63	570.00	(570.00)		-	-					5,976.00	5,976	598			6,574	(1,762)
409	31-Jan-11		8,958	Basic \$8125.43	7,035.00			7,035.00	1,055.25						8,090	809			8,899	(59)

APPENDIX E - CO Recalc

CO	Issue Date	Credit Amount	Extra Amount	Subcontractor	1st Tier Subcontractor Amt	Unallowable Costs on 1st Tier Sub	Other Adjustments	Subtotal	15% Sub Fee	1st Tier Sub Amt, fee included	2nd tier sub	Unallowed Costs on 2nd tier sub	15% fee on 2nd tier sub	2nd tier sub, fee included	Unallowable costs on 2nd tier sub, fee included	Subtotal	10% GC Fee	Credit not Properly Applied	Total	Difference
410	31-Jan-11		1,396	Maystar labor \$924; Concrete \$172	924.00			924.00	138.60	172			-			1,235	123		1,358	(38)
411	31-Jan-11		11,970	Muia Steel \$1220 + \$2510 + \$2380 + \$3290 quotes + fee				-	-	9,400.00			-			9,400	940		10,340	(1,630)
412	31-Jan-11		38,906	Allmar \$1534.52 + \$2332 quotes + fee; Platinum \$2200 quote + fee; Nelmar \$19522.81; Graff \$3700; Allwood \$3808; Itainteriors <\$4920>	20,199.84			20,199.84	3,029.98	9,767			-			32,996	2,808	(4,920)	30,884	(8,022)
413	31-Jan-11		6,801	Platinum \$350 quote + fee; Allmar \$588.50 + \$2184.13 + \$174.73; Nelmar \$2359.91	2,043.21			2,043.21	306.48	3,297			-			5,647	565		6,212	(589)
414	31-Jan-11		41,493	Kapp \$37635.68	32,585.00			32,585.00	4,887.75				-			37,473	3,747		41,220	(273)
415	14-Mar-11		12,564	Accel \$11396.01	9,866.67	(334.17)		9,532.50	1,429.88				-			10,962	1,096		12,059	(505)
416	14-Mar-11		1,123	Nelmar \$671.62; Inter-Co \$300 quote + fee	581.58			581.58	87.24	300			-			969	97		1,066	(57)
417	14-Mar-11		3,363	Concrete \$172; Harris Rebar \$300 + fee; Maystar labor \$264; Core \$1905 quote + fee	564.00			564.00	84.60	2,077			-			2,726	273		2,998	(365)
418	14-Mar-11		9,487	BJ Tiles \$8604.75	7,450.00			7,450.00	1,117.50				-			8,568	857		9,424	(62)
419	14-Mar-11		4,606	Allwood \$4177.40	3,616.80			3,616.80	542.52				-			4,159	416		4,575	(30)
420	14-Mar-11		67,780	Allmar \$37957.91 + \$11770 quotes + fee; Trescon \$3500 quote + fee				-	-	53,228			-			53,228	5,323		58,551	(9,229)
421	14-Mar-11	1,727		Triumph <\$1726.92>	(1,726.92)			(1,726.92)					-			(1,727)			(1,727)	
422	14-Mar-11		44,393	Pipe All \$40265.44	34,861.85			34,861.85	5,229.28				-			40,091	4,009		44,100	(292)
423	14-Mar-11		1,498	Nelmar \$1116.09; Platinum \$210 quote + fee	966.31			966.31	144.95	210			-			1,321	132		1,453	(45)
424	14-Mar-11		13,127	Pipe All \$11906.18				-	-		8,925.00		1,338.75			10,264	1,026		11,290	(1,836)
425	14-Mar-11		2,309	Nelmar \$1909.80; Platinum \$160 quote + fee	1,653.51			1,653.51	248.03	160			-			2,062	206		2,268	(42)
426	14-Mar-11		10,269	Allmar \$5240.58 + \$2174.04 quotes + fee; Trescon \$650 quote + fee				-	-	8,065			-			8,065	806		8,871	(1,398)
427	14-Mar-11		6,975	Accel \$958.90; Graff \$1800 quote + fee; Muia Steel \$1250 quote + fee; Avenue \$1433.47; Harris Rebar \$118 + fee; Maystar \$66 labor; Concrete \$172	2,255.32	(72.68)		2,182.64	327.40	3,222			-			5,732	573		6,305	(670)
428	14-Mar-11		8,366	Trescon \$300 quote + fee; Allmar \$6269.56 quote + fee				-	-	6,570			-			6,570	657		7,227	(1,139)
429	14-Mar-11		8,991	Nelmar \$6936.39; Camino \$144.84; Platinum \$930 quote + fee	6,130.67			6,130.67	919.60	930			-			7,980	798		8,778	(213)
430	14-Mar-11		9,968	Allmar \$7526.17 + \$302.10				-	-	7,828			-			7,828	783		8,611	(1,357)
431	14-Mar-11		623	Lynx \$489 quote + fee				-	-	489			-			489	49		538	(85)
432	14-Mar-11		987	Basic \$895	775.00			775.00	116.25				-			891	89		980	(7)
433	14-Mar-11	5,040		Allwood <\$5039.86>	(5,039.86)			(5,039.86)					-			(5,040)			(5,040)	
434	14-Mar-11	1,600		Allwood <\$1600>	(1,600.00)			(1,600.00)					-			(1,600)			(1,600)	
435	14-Mar-11		6,761	Basic \$5309.30	5,309.30			5,309.30	796.40				-			6,106	611		6,716	(45)
436	14-Mar-11		2,477	Stefcon \$1945 quote + fee				-	-	1,945			-			1,945	195		2,140	(337)
437	14-Mar-11		7,564	GP Custom \$5940 quote + fee				-	-	5,940			-			5,940	594		6,534	(1,030)
438	14-Mar-11		21,138	GP Custom \$7200 quote + fee; Muia \$9400 quote + fee				-	-	16,600			-			16,600	1,660		18,260	(2,878)
439	14-Mar-11		8,876	GP Custom \$5900 quote + fee; Platinum \$1070 quote + fee				-	-	6,970			-			6,970	697		7,667	(1,209)
440	14-Mar-11		2,022	Muia \$1588				-	-	1,588			-			1,588	159		1,747	(275)
441	14-Mar-11		15,208	Lynx \$4410 quote + fee; Accel \$8700.63	7,533.01	(562.48)		6,970.53	1,045.58	4,410			-			12,426	1,243		13,669	(1,539)
442	14-Mar-11		5,696	Accel \$5166	4,472.73	(283.61)		4,189.12	628.37				-			4,817	482		5,299	(396)
443	14-Mar-11		1,124	Nelmar \$1019.36	882.56			882.56	132.38				-			1,015	101		1,116	(7)
444	14-Mar-11		12,778	Nelmar \$3581.26; Platinum \$1680 quote + fee; Tower Scaffold \$5254 quote + fee	3,100.66			3,100.66	465.10	6,934			-			10,500	1,050		11,550	(1,228)
445	14-Mar-11		4,086	Basic \$3706.40	3,209.00			3,209.00	481.35				-			3,690	369		4,059	(27)
446	14-Mar-11		3,960	Platinum \$550 quote + fee; GP Custom \$2560 quote + fee				-	-	3,110			-			3,110	311		3,421	(539)
447	14-Mar-11		2,514	Muia \$1974 quote + fee				-	-	1,974			-			1,974	197		2,171	(342)
448	11-Apr-11		1,877	Allwood \$1702.47	1,474.00			1,474.00	221.10				-			1,695	170		1,865	(12)
449	11-Apr-11		920	Pipe All \$834.49	722.50			722.50	108.38				-			831	83		914	(6)

APPENDIX E - CO Recalc

CO	Issue Date	Credit Amount	Extra Amount	Subcontractor	1st Tier Subcontractor Amt	Unallowable Costs on 1st Tier Sub	Other Adjustments	Subtotal	15% Sub Fee	1st Tier Sub Amt, fee included	2nd tier sub	Unallowed Costs on 2nd tier sub	15% fee on 2nd tier sub	2nd tier sub, fee included	Unallowable costs on 2nd tier sub, fee included	Subtotal	10% GC Fee	Credit not Properly Applied	Total	Difference
450	11-Apr-11		2,743	Allwood \$2448.08	2,154.18			2,154.18	323.13							2,477	248		2,725	(18)
451	11-Apr-11		2,352	Camino \$2133.17	1,846.90			1,846.90	277.04							2,124	212		2,336	(15)
452	11-Apr-11		3,024	Nelmar \$667.59; Allmar \$1413.72 + \$392.82 quotes + fee	568.38			568.38	85.26	1,807						2,460	246		2,706	(318)
453	11-Apr-11		1,996	Camino \$1810.46	1,567.50			1,567.50	235.13							1,803	180		1,983	(13)
454	11-Apr-11		9,896	Harris Rebar \$265.50 + fee; Avenue \$3115.96; Kapp \$5255.25; Concrete \$258	7,513.30			7,513.30	1,127.00	258						8,898	890		9,788	(108)
455	11-Apr-11		8,055	Platinum \$410 quote + fee; Core \$5915.85 quote + fee				-	-	6,326						6,326	633		6,958	(1,097)
456	11-Apr-11		6,308	Tower Scaffold \$4954				-	-	4,954						4,954	495		5,449	(859)
457	11-Apr-11		3,629	Nelmar \$3291.60	2,849.87			2,849.87	427.48							3,277	328		3,605	(24)
458	11-Apr-11		1,834	Muia Steel \$1440 quote + fee				-	-	1,440						1,440	144		1,584	(250)
459	11-Apr-11		11,737	Accel \$10428.18; Camino \$217.26	9,216.83	(156.42)		9,060.41	1,359.06							10,419	1,042		11,461	(275)
460	11-Apr-11		655	Allmar \$514.17 quote + fee				-	-	514						514	51		566	(89)
461	11-Apr-11		987	Graff \$775 quote + fee				-	-	775						775	78		853	(134)
462	11-Apr-11		3,830	Nelmar \$2954.19; Platinum \$450 quote + fee	2,557.74			2,557.74	383.66	450						3,391	339		3,731	(99)
463	11-Apr-11		1,581	Allmar \$165.59 + \$551 quotes + fee; Trescon \$225 + \$300 quotes + fee				-	-	1,242						1,242	124		1,366	(215)
464	11-Apr-11		6,363	Pipe All \$5771.54				-	-					4,997.00		4,997	500		5,497	(866)
465	11-Apr-11		13,554	Accel \$7007.69; Nelmar \$4616.28; Platinum \$580 quote + fee	10,064.04	(336.54)		9,727.50	1,459.13	580						11,767	1,177		12,943	(611)
466	11-Apr-11		6,128	D & D \$1983.75 quote + fee; Platinum \$290 quote + fee; Nelmar \$2931.86	2,538.41			2,538.41	380.76	2,274						5,193	519		5,712	(416)
467	11-Apr-11		350	Allmar \$74.98 quote + fee; Trescon \$200 quote + fee				-	-	275						275	27		302	(48)
468	11-Apr-11		5,587	Pipe All \$4460.25; Nelmar \$422.08; Platinum \$160 quote + fee	4,227.13			4,227.13	634.07	160						5,021	502		5,523	(63)
469	11-Apr-11		1,000	Accel \$906.99	785.27	(63.20)		722.07	108.31							830	83		913	(87)
470	11-Apr-11		1,441	Pipe All \$1307.34	1,131.90			1,131.90	169.79							1,302	130		1,432	(9)
471	27-Apr-11		2,451	Avenue \$1924.81; Concrete \$258	1,666.50			1,666.50	249.98	258						2,174	217		2,392	(59)
472	27-Apr-11		3,498	Accel; \$3172.67	2,746.90	(211.72)		2,535.18	380.28							2,915	292		3,207	(291)
473	27-Apr-11		23,806	Pipe All \$21592.91				-	-		18,695.16			2,804.27		21,499	2,150		23,649	(157)
474	27-Apr-11		1,073	Accel \$973.68	843.01	(56.88)		786.13	117.92							904	90		994	(79)
475	27-Apr-11		6,933	Accel \$3401.31 ; Harris Rebar \$2500 + fee	5,444.85	(114.55)		5,330.30	799.55							6,130	613		6,743	(191)
476	27-Apr-11		3,959	Accel \$3590.84	3,108.95	(234.63)		2,874.32	431.15							3,305	331		3,636	(323)
477	27-Apr-11		145	CIC \$114 quote + fee				-	-	114						114	11		125	(20)
478	27-Apr-11		14,026	Pipe All \$10866.16; Phoenix Steel \$1607 quote + fee	7,328.15			7,328.15	1,099.22	1,607	1,800.67			270.10		12,105	1,211		13,316	(711)
479	27-Apr-11		13,635	Accel \$11077.70; Camino \$525.01; Lynx \$662 quote + fee	10,045.63	(646.22)		9,399.41	1,409.91	662						11,471	1,147		12,618	(1,017)
480	27-Apr-11		121,892	CIC \$98630.24 quote + fee				-	-	98,630						98,630	9,863		108,493	(13,398)
481	27-Apr-11	838		Platinum \$260 quote + fee; Nelmar \$3805.71; Ritz <\$365>	3,294.99			3,294.99	494.25	260						4,049	-	(5,365)	(1,316)	(478)
482	27-Apr-11		976	BJ Tiles \$3854.70; Camino \$1221.30; TMT <\$4620>	4,394.80			4,394.80	659.22							5,054	43	(4,620)	477	(499)
483	27-Apr-11		6,119	Allwood \$1238.74; Trescon \$450 quote + fee; Allmar \$3282.84 quote + fee	1,072.50			1,072.50	160.88	3,733						4,966	497		5,463	(656)
484	27-Apr-11		3,540	Accel \$3210.91	2,780.01	(221.99)		2,558.02	383.70							2,942	294		3,236	(304)
485	27-Apr-11		9,645	Accel \$8748.33	7,574.31	(469.26)		7,105.05	1,065.76							8,171	817		8,988	(657)
486	27-Apr-11		4,391	Accel \$3179.52; Allwood \$802.96	3,448.03	(207.77)		3,240.26	486.04							3,726	373		4,099	(292)
487	27-Apr-11		20,858	Lynx \$16380 quote + fee				-	-	16,380						16,380	1,638		18,018	(2,840)
488	27-Apr-11		44,307	Accel \$36530.26; BJ Tiles \$3657.75	34,794.81	(1,996.33)		32,798.48	4,919.77							37,718	3,772		41,490	(2,817)
489	27-Apr-11		29,082	Accel \$26378.51	22,838.54	(337.33)		22,501.21	3,375.18							25,876	2,588		28,464	(618)
490	27-Apr-11		14,858	Accel \$11947.86; Lynx \$1324 quote + fee	10,344.46	(740.23)		9,604.23	1,440.63	1,324						12,369	1,237		13,606	(1,253)
491	27-Apr-11		6,019	Allmar \$4726.70 quote + fee				-	-	4,727						4,727	473		5,199	(820)
492	27-Apr-11		3,107	GP Custom \$2120 quote + fee; Platinum \$320 quote + fee				-	-	2,440						2,440	244		2,684	(423)

APPENDIX E - CO Recalc

CO	Issue Date	Credit Amount	Extra Amount	Subcontractor	1st Tier Subcontractor Amt	Unallowable Costs on 1st Tier Sub	Other Adjustments	Subtotal	15% Sub Fee	1st Tier Sub Amt, fee included	2nd tier sub	Unallowed Costs on 2nd tier sub	15% fee on 2nd tier sub	2nd tier sub, fee included	Unallowable costs on 2nd tier sub, fee included	Subtotal	10% GC Fee	Credit not Properly Applied	Total	Difference
493	27-Apr-11		4,862	Nelmar \$3249.40; Trescon \$150 quote + fee; Platinum \$580 quote + fee; Allmar \$275 quote + fee	2,813.33			2,813.33	422.00	1,005			-			4,240	424		4,664	(198)
494	27-Apr-11		955	Accel \$866.12	749.89	(63.20)		686.69	103.00				-			790	79		869	(86)
495	27-Apr-11		3,998	Platinum \$580 quote + fee; GC Custom \$2560 quote + fee				-	-	3,140			-			3,140	314		3,454	(544)
496	27-Apr-11		14,326	Accel \$10300.96; Pipe All \$2693.18	9,023.58	(618.50)		8,405.08	1,260.76				-	2,226.75		11,893	1,189		13,082	(1,244)
497	27-Apr-11		76,348	Accel \$69250.21	59,956.89	(3,479.95)		56,476.94	8,471.54				-			64,948	6,495		71,443	(4,905)
498	27-Apr-11		52,545	Pipe All \$47659.85	26,263.94			26,263.94	3,939.59				-	15,000.00		45,204	4,520		49,724	(2,821)
499	27-Apr-11		9,518	Accel \$5238.83; Pipe All \$2131.73; Platinum \$290 quote + fee; Nelmar \$927.44	5,338.76	(379.20)		4,959.56	743.93	290	530.00		-	79.50	1,233.50	7,836	784		8,620	(898)
500	27-Apr-11		6,560	Accel \$5949.90	5,151.43	(406.85)		4,744.58	711.69				-			5,456	546		6,002	(558)
501	27-Apr-11		13,989	Accel \$9527.60; Allmar \$2737 quote + fee	8,249.00	(379.20)		7,869.80	1,180.47	2,737			-			11,787	1,179		12,966	(1,023)
502	27-Apr-11		1,431	Accel \$1297.86	1,123.69	(63.20)		1,060.49	159.07				-			1,220	122		1,342	(89)
503	27-Apr-11		7,257	Accel \$6582.45	5,699.09	(414.75)		5,284.34	792.65				-			6,077	608		6,685	(572)
504	27-Apr-11		1,686	Lynx \$1324 quote + fee				-	-	1,324			-			1,324	132		1,456	(230)
505	27-Apr-11		1,704	Pipe All \$1545.39				-	-				-	1,338.00		1,338	134		1,472	(232)
506	27-Apr-11		1,347	BJ Tile \$1221.59	1,057.65			1,057.65	158.65				-			1,216	122		1,338	(9)
507	27-Apr-11		2,557	Accel \$2318.84	2,007.65	(146.15)		1,861.50	279.23				-			2,141	214		2,355	(202)
508	29-Apr-11		169,488	Triumph \$153330.73	174,658.65			174,658.65	26,198.80	(48,000)			-			152,857	15,286		168,143	(1,345)
509	29-Apr-11		100,975	Pipe All \$13350.92; Nelmar \$5408.23; Argo S; Avenue \$1744.28; Benson \$44548.65; Accel \$2618.12; Triumph \$21878.01	67,737.18	(680.61)		67,056.57	10,058.49		10,008.00		-	1,501.20		88,624	8,862		97,487	(3,488)
510	29-Apr-11		5,256	Accel \$4767.71	4,127.89	(341.28)		3,786.61	567.99				-			4,355	435		4,790	(466)
511	29-Apr-11		2,373	Nelmar \$858.80; Stefcon \$1120 quote + fee	743.55			743.55	111.53	1,120			-			1,975	198		2,173	(200)
512	29-Apr-11		10,298	Pipe All \$4990.06; Camino \$841.19 + \$217.26; BJ Tiles \$3291.75	8,086.80			8,086.80	1,213.02				-			9,300	930		10,230	(68)
513	29-Apr-11		14,243	Muia Steel \$9380 quote + fee; Platinum \$1805 quote + fee				-	-	11,185			-			11,185	1,119		12,304	(1,939)
514	29-Apr-11		38,237	Accel \$4122.80; Harris Rebar \$1135 + fee; Aquanorth \$3788.24 + \$6935.49; Avenue \$18127.73; Concrete \$344	29,684.14	(1,252.30)		28,431.84	4,264.78	344			-			33,041	3,304		36,345	(1,893)
515	29-Apr-11		27,219	Accel \$6371.74; Nelmar \$13163.55; Pipe All \$6657.42; Platinum \$870 quote + fee	14,741.16	(462.94)		14,278.22	2,141.73	870			-	5,764.00		23,054	2,305		25,359	(1,860)
516	29-Apr-11		191,594	Allmar \$32287.10 quote + fee; Basic \$136490.17	118,173.30			118,173.30	17,726.00	32,287			-			168,186	16,819		185,005	(6,589)
517	29-Apr-11		13,921	Pipe All \$1200.62; Accel \$2360.98; Avenue \$1284.36; Platinum \$290 quote + fee; Nelmar \$1455.23; Allmar \$5015 quote + fee; Concrete \$172	4,416.08	(162.47)		4,253.61	638.04	5,477	900.00		-	135.00		11,404	1,140		12,544	(1,377)
518	29-Apr-11		449,687	Harris Rebar \$29189.50 + \$25915 + \$1150.73 + fee; Stefcon \$69180 quote + fee; Muia Steel \$74150 quote + fee (no back up); Avenue \$120497.69; Crushed Stone \$4992 + fee; Concrete \$47988 + fee	165,574.23			165,574.23	24,836.13	191,318			-			381,728	37,695	(4,775.40)	414,648	(35,038)
519	29-Apr-11		9,446	Kapp \$7536.38; Granular mat \$893.35 + fee	7,418.35			7,418.35	1,112.75				-			8,531	853		9,384	(62)
520	29-Apr-11		7,082	Allwood \$6739.48 + <\$1500>	6,739.48			6,739.48	1,010.92				-			7,750	625	(1,500)	6,875	(207)
521	29-Apr-11		2,915	Accel \$2644.15	2,289.31	(183.28)		2,106.03	315.90				-			2,422	242		2,664	(251)
522	29-Apr-11		7,988	CIC \$6761.70 quote + fee				-	-	6,762			-			6,762	676		7,438	(550)
523	29-Apr-11		7,768	Platinum \$410 quote + fee; Pipe All \$2802.03; Nelmar \$802.96; Accel \$; Allmar \$1024.99 quote + fee	2,840.23	(63.20)		2,777.03	416.55	1,435	1,800.00		-	270.00	347.00	7,046	628	(765)	6,909	(860)

APPENDIX E - CO Recalc

CO	Issue Date	Credit Amount	Extra Amount	Subcontractor	1st Tier Subcontractor Amt	Unallowable Costs on 1st Tier Sub	Other Adjustments	Subtotal	15% Sub Fee	1st Tier Sub Amt, fee included	2nd tier sub	Unallowed Costs on 2nd tier sub	15% fee on 2nd tier sub	2nd tier sub, fee included	Unallowable costs on 2nd tier sub, fee included	Subtotal	10% GC Fee	Credit not Properly Applied	Total	Difference
524	29-Apr-11		4,794	Platinum \$500 quote + fee; Trescon \$425 quote + fee; Nelmar \$1787.03; Allmar \$1292.41 quote + fee	1,547.21			1,547.21	232.08	2,217			-			3,997	400		4,396	(397)
525	29-Apr-11		7,640	GP Custom \$5000 quote + fee; Platinum \$1000 quote + fee				-	-	6,000			-			6,000	600		6,600	(1,040)
526	29-Apr-11		1,210	Pipe All \$1097.25	950.00			950.00	142.50				-			1,093	109		1,202	(8)
527	29-Apr-11	296		Triumph <\$296>	(296.00)			(296.00)					-			(296)			(296)	-
528	29-Apr-11		3,678	Basic \$3335	2,888.00			2,888.00	433.20				-			3,321	332		3,653	(24)
529	29-Apr-11		3,152	Accel \$2094.70; Lynx \$662 quote + fee	1,813.59	(137.46)		1,676.13	251.42	662			-			2,590	259		2,849	(304)
530	29-Apr-11		5,890	Accel \$5342.83	4,625.83	(185.65)		4,440.18	666.03				-			5,106	511		5,617	(274)
531	29-Apr-11		58,068	Lynx \$45601 quote + fee				-	-	45,601			-			45,601	4,560		50,161	(7,907)
532	29-Apr-11		1,312	Mula \$1030 quote + fee				-	-	1,030			-			1,030	103		1,133	(179)
533	29-Apr-11		3,656	Accel \$257.44; Lynx \$2468 quote + fee	222.89	(20.54)		202.35	30.35	2,648			-			2,881	288		3,169	(487)
534	29-Apr-11		3,133	Accel \$3985.02	2,460.24	(179.33)		2,280.91	342.14				-			2,623	262		2,885	(247)
535	29-Apr-11		2,182	Nelmar \$1978.88	1,713.32	(63.20)		1,713.32	257.00				-			1,970	197		2,167	(14)
536	29-Apr-11		7,492	Accel \$6795.33	5,883.40	(436.87)		5,446.53	816.98				-			6,264	626		6,890	(602)
537	29-Apr-11		24,037	Pipe All \$5736.31; Accel \$7928.26; Nelmar \$6162.72; Platinum \$1710 quote + fee	12,199.98	(379.20)		11,820.78	1,773.12	1,710	4,300.00		645.00			20,249	2,025		22,274	(1,763)
538	29-Apr-11		11,769	Accel \$8504.34; Nelmar \$2170.23	9,242.05	(540.36)		8,701.69	1,305.25				-			10,007	1,001		11,008	(761)
539	29-Apr-11		7,511	Pipe All \$5839.56; Accel \$973.01	4,489.24	(52.14)		4,437.10	665.57		1,220.00		183.00			6,506	651		7,156	(355)
540	29-Apr-11		4,445	Accel \$2595.37; Pipe All \$1536.15	3,490.49	(131.93)		3,358.56	503.78				-			3,862	386		4,249	(196)
541	29-Apr-11		6,010	Accel \$5451.17	4,719.63	(63.20)		4,656.43	698.46				-			5,355	535		5,890	(120)
542	29-Apr-11		2,254	Lynx \$662 quote + fee; Accel \$839.32; Camino \$440.86	1,108.38	(63.20)		1,045.18	156.78	662			-			1,864	186		2,050	(204)
543	29-Apr-11		4,116	Accel \$3733.18	3,232.19	(126.40)		3,105.79	465.87				-			3,572	357		3,929	(187)
TOTALS					10,132,751	(195,019)	(4,943)	9,932,789	843,663	3,054,977	921,806	(162)	138,989	882,254	(6,720)	15,767,595	1,349,562	(21,945)	17,095,212	(1,061,603)

# APPENDIX F

## Detailed Change Order Analysis





**U.S. COST**

## **U.S. COST INCORPORATED**

ATLANTA-DALLAS-ARLINGTON  
1200 Abernathy Road, NE  
Building 600, Suite 950  
Atlanta, Georgia 30328  
Telephone (770) 481-1600  
Facsimile Number (770) 481-1640  
Web Site [www.uscost.com](http://www.uscost.com)

### **TRANSMITTAL**

Date: **June 17, 2011**

USC Job #: **4528.001**

Client Job #: **0**

Shipping Method: **E-Mail**

To: **Commercial Cost Control, Inc.**  
**540 Clark Rd.**  
**Hopewell, Pennsylvania 16650**

Attention: **Jake Ortego, PE**

Project Name: **Change Order Analysis**

Project Location: **Vaughan, Ontario**

Design Submission: **Change Order Analysis Estimate**

Copies (Bound): **N/A**

Copies (Unbound): **N/A**

Electronic Copy: **1**

Revision No:

Copies Sent To:

Comments:

Signed: *Katrina D. Knight*

**Katrina Knight (770-481-1623)**

# CHANGE ORDER ANALYSIS

FOR:

**Vaughn Civic Centre**  
VAUGHAN, ONTARIO

OWNER:

City of Vaughan, Ontario

Prepared For:

**Commercial Cost Control, Inc.**  
540 Clark Road  
Hopewell, PA 16650

PREPARED BY:



**U.S. COST**

1200 Abernathy Road, Building 600, Suite 950  
Atlanta, Georgia 30328

June 17, 2011

***Vaughan Civic Centre***

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<del>\$844,685</del>	<i>VAUGHN CITY HALL CHANGE ORDERS</i>												
<del>\$844,685</del>	<i>VAUGHN CITY HALL CHANGE ORDERS</i>												
<del>\$844,685</del>	<i>VAUGHN CITY HALL CHANGE ORDERS</i>												
<b><i>CHANGE ORDER #12 REVISION TO THE STORM LINE AT GRID C</i></b>													
1	Public Sanitary Utility Sewerage Piping, piping polyvinyl chloride pipe, B & S, 350mm diameter, SDR 35, excludes excavation or backfill	(260)	L.M.	(100)	(\$4,925)	(\$7,592)	(\$461)	\$0	(\$456)	(\$13,434)	(\$2,082)	(\$2,091)	<b>(\$17,607)</b>
				0.384	18.94	29.20	1.77	1.75	51.67	8.01	8.04	67.72	
2	Public Sanitary Utility Sewerage Piping, Bushing, B & S, 350mm x 100mm, SDR 35	(1)	Ea.	(2)	(\$78)	(\$532)	\$0	\$0	(\$32)	(\$642)	(\$100)	(\$147)	<b>(\$888)</b>
				1.778	78.43	532.00		31.92	642.35	99.56	146.55	888.46	
3	Public Sanitary Utility Sewerage Piping, Wye, polyvinyl chloride pipe, B & S, 350mm x 100mm, SDR 35	(2)	Ea.	(4)	(\$157)	(\$1,174)	\$0	\$0	(\$70)	(\$1,401)	(\$217)	(\$323)	<b>(\$1,942)</b>
				1.778	78.42	587.00		35.22	700.64	108.60	161.70	970.95	
4	Public Sanitary Utility Sewerage Piping, Wye, polyvinyl chloride pipe, B & S, 350mm x 150mm, SDR 35	(3)	Ea.	(5)	(\$235)	(\$2,190)	\$0	\$0	(\$131)	(\$2,557)	(\$396)	(\$603)	<b>(\$3,556)</b>
				1.778	78.43	730.00		43.80	852.23	132.10	201.09	1,185.41	
5	Public Sanitary Utility Sewerage Piping, Wye, polyvinyl chloride pipe, B & S, 350mm x 200mm, SDR 35	(2)	Ea.	(4)	(\$157)	(\$1,570)	\$0	\$0	(\$94)	(\$1,821)	(\$282)	(\$432)	<b>(\$2,536)</b>
				1.778	78.42	785.00		47.10	910.52	141.13	216.24	1,267.90	
6	Public Sanitary Utility Sewerage Piping, Wye, polyvinyl chloride pipe, B & S, 350mm x 250mm, SDR 35	(2)	Ea.	(4)	(\$157)	(\$1,884)	\$0	\$0	(\$113)	(\$2,154)	(\$334)	(\$519)	<b>(\$3,007)</b>
				1.778	78.42	942.00		56.52	1,076.94	166.93	259.49	1,503.36	
7	Public Sanitary Utility Sewerage Piping, Wye, polyvinyl chloride pipe, B & S, 350mm x 300mm, SDR 35	(1)	Ea.	(2)	(\$78)	(\$1,050)	\$0	\$0	(\$63)	(\$1,191)	(\$185)	(\$289)	<b>(\$1,665)</b>
				1.778	78.43	1,050.00		63.00	1,191.43	184.67	289.24	1,665.34	
8	Public Sanitary Utility Sewerage Piping, piping polyvinyl chloride pipe, B & S, 450mm diameter, SDR 35, excludes excavation or backfill	260	L.M.	119	\$5,893	\$9,213	\$552	\$0	\$553	\$16,211	\$2,513	\$2,538	<b>\$21,261</b>
				0.459	22.67	35.43	2.12	2.13	62.35	9.66	9.76	81.77	
9	Public Sanitary Utility Sewerage Piping, 45 degree elbow, polyvinyl chloride pipe, B & S, 450mm diameter, SDR 35	4	Ea.	7	\$314	\$3,540	\$0	\$0	\$212	\$4,066	\$630	\$975	<b>\$5,672</b>
				1.778	78.43	885.00		53.10	1,016.53	157.56	243.79	1,417.88	
10	Public Sanitary Utility Sewerage Piping, Bushing, B & S, 450mm x 200mm, SDR 35	1	Ea.	2	\$78	\$723	\$0	\$0	\$43	\$845	\$131	\$199	<b>\$1,175</b>
				1.778	78.43	723.00		43.38	844.81	130.94	199.16	1,174.92	
11	Public Sanitary Utility Sewerage Piping, Wye polyvinyl chloride pipe, B & S, 450mm x 100mm, SDR 35	2	Ea.	4	\$157	\$3,054	\$0	\$0	\$183	\$3,394	\$526	\$841	<b>\$4,761</b>
				1.778	78.42	1,527.00		91.62	1,697.05	263.04	420.64	2,380.73	

**Vaughan Civic Centre**

**EXPANDED - DETAIL REPORT**

Vaughan, Ontario

U. S. Cost

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<b><u>CHANGE ORDER #12 REVISION TO THE STORM LINE AT GRID C</u></b>													
12	3	Ea.	5	\$235	\$4,740	\$0	\$0	\$284	\$5,260	\$815	\$1,306	<b>\$7,381</b>	
Public Sanitary Utility Sewerage Piping, Wye polyvinyl chloride pipe, B & S, 450mm x 150mm, SDR 35			1.778	78.43	1,580.00			94.80	1,753.23	271.75	435.24	2,460.22	
13	1	Ea.	2	\$78	\$1,650	\$0	\$0	\$99	\$1,827	\$283	\$455	<b>\$2,565</b>	
Public Sanitary Utility Sewerage Piping, Wye polyvinyl chloride pipe, B & S, 450mm x 200mm, SDR 35			1.778	78.43	1,650.00			99.00	1,827.43	283.25	454.52	2,565.20	
14	3	Ea.	5	\$235	\$5,142	\$0	\$0	\$309	\$5,686	\$881	\$1,416	<b>\$7,984</b>	
Public Sanitary Utility Sewerage Piping, Wye polyvinyl chloride pipe, B & S, 450mm x 250mm, SDR 35			1.778	78.43	1,714.00			102.84	1,895.27	293.77	472.15	2,661.18	
15	1	Ea.	2	\$78	\$1,760	\$0	\$0	\$106	\$1,944	\$301	\$485	<b>\$2,730</b>	
Public Sanitary Utility Sewerage Piping, Wye polyvinyl chloride pipe, B & S, 450mm x 300mm, SDR 35			1.778	78.43	1,760.00			105.60	1,944.03	301.32	484.82	2,730.18	
16	1	Ea.		\$0	\$250	\$0	\$0	\$15	\$265	\$41	\$69	<b>\$375</b>	
Concrete core drilling, bits for core drill, diamond, premium, 3" diameter					250.00			15.00	265.00	41.08	68.87	374.94	
17	1	LS	18	\$869	\$6	\$128	\$0	\$0	\$1,004	\$156	\$2	<b>\$1,161</b>	
Concrete core drilling, core, reinforced concrete slab, 3" diameter, up to 6" thick slab, includes bit, layout and set up			18	868.86	6.45	128.03		0.39	1,003.73	155.58	1.78	1,161.08	
Subtotal					\$2,151	\$14,086	\$219	\$0	\$845	\$17,301	\$2,682	\$3,880	<b>\$23,863</b>
Taxes					\$0	\$845	\$0	\$0					
Subcontractor Markups					\$333	\$2,314	\$34	\$0					
Prime Contractor Markups from 01 AA					\$0	\$3,880	\$0	\$0					
<b>TOTAL CHANGE ORDER #12 REVISION TO THE STORM LINE AT GRID C</b>			<b>45</b>	<b>\$2,484</b>	<b>\$21,126</b>	<b>\$253</b>	<b>\$0</b>	<b>\$845</b>	<b>\$17,301</b>	<b>\$2,682</b>	<b>\$3,880</b>	<b>\$23,863</b>	
<b>1.00 LS</b>													

**Estimate Tree Structure Rollups**

CHANGE ORDER #14 DATA/TELECOM TENDER

SERVICES

ELECTRICAL

COMMUNICATIONS & SECURITY

**TELECOMMUNICATIONS SYSTEMS**

18	1	Ea.		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$0</b>
Communications Work CCO/CD / SI No.: 098					0.01				0.01			0.02

Memo: LUMP SUM CONTRACT - Can not evaluate CHANGE ORDER due

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<b><u>Estimate Tree Structure Rollups</u></b>												
<u>CHANGE ORDER #14 DATA/TELECOM TENDER</u>												
<u>SERVICES</u>												
<u>ELECTRICAL</u>												
<u>COMMUNICATIONS &amp; SECURITY</u>												
<b><u>TELECOMMUNICATIONS SYSTEMS</u></b>												
Taxes				\$0	\$0	\$0	\$0					
Subcontractor Markups				\$0	\$0	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$0	\$0	\$0					

**TOTAL TELECOMMUNICATIONS SYSTEMS**

**2.00 EA**

Level Unit Cost-->

\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0.01	\$0	\$0	\$0	\$0.01
-----	-----	-----	-----	-----	-----	-----	-----	--------	-----	-----	-----	--------

Memo: LUMP SUM CONTRACT - Can not evaluate due to lack of material and labor quantities.

\$844,685 VAUGHN CITY HALL CHANGE ORDERS  
\$844,685 VAUGHN CITY HALL CHANGE ORDERS  
\$844,685 VAUGHN CITY HALL CHANGE ORDERS

**CHANGE ORDER #25 STRUCTURAL COORD - SLAB EDGE-200 LEVEL**

<b>19</b>	<b>Structural concrete, placing</b>	<b>1.30</b>	m3	2	\$96	\$46	\$22	\$0	\$3	\$167	\$26	\$13	<b>\$205</b>
				1.395	74.00	35.00	17.22	2.10	128.32	19.89	9.64	157.85	
<b>20</b>	<b>C.I.P. concrete forms</b>	<b>11.10</b>	m2CA	15	\$866	\$311	\$0	\$0	\$19	\$1,195	\$185	\$86	<b>\$1,466</b>
				1.396	78.00	28.00		1.68	107.68	16.69	7.71	132.09	
<b>21</b>	<b>Concrete Material</b>	<b>1.30</b>	m3		\$0	\$224	\$0	\$0	\$13	\$237	\$0	\$53	<b>\$290</b>
						172.00		10.32	182.32		41.02	223.34	
	Subtotal				\$962	\$580	\$22	\$0	\$35	\$1,599	\$211	\$151	<b>\$1,962</b>
	Taxes				\$0	\$35	\$0	\$0					
	Subcontractor Markups				\$149	\$59	\$3	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$151	\$0	\$0					
<b>TOTAL CHANGE ORDER #25 STRUCTURAL COORD - SLAB</b>				<b>17</b>	<b>\$1,111</b>	<b>\$825</b>	<b>\$26</b>	<b>\$0</b>	<b>\$35</b>	<b>\$1,599</b>	<b>\$211</b>	<b>\$151</b>	<b>\$1,962</b>
<b>EDGE-200 LEVEL</b>													
<b>1.00 LS</b>													

\$844,685 VAUGHN CITY HALL CHANGE ORDERS  
\$2,189 CHANGE ORDER #31 POWER SERVICE REQUIREMENTS FOR DOCK  
\$2,189 ELECTRICAL  
\$2,189 LIGHTING & BRANCH WIRING

**BRANCH WIRING**

<b>22</b>	<b>EMT, 3/4" diameter, to 15' high, incl couplings only</b>	<b>0.85</b>	C	3	\$215	\$61	\$0	\$0	\$4	\$280	\$43	\$17	<b>\$340</b>
				3.2	252.80	72.00		4.32	329.12	51.01	19.83	399.97	

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<p><del>\$844,685</del>      <u>VAUGHN CITY HALL CHANGE ORDERS</u></p> <p><del>\$2,189</del>      <u>CHANGE ORDER #31 POWER SERVICE REQUIREMENTS FOR DOCK</u></p> <p><del>\$2,189</del>      <u>ELECTRICAL</u></p> <p><del>\$2,189</del>      <u>LIGHTING &amp; BRANCH WIRING</u></p> <p><b><u>BRANCH WIRING</u></b></p>												
23	EMT boxes connectors, insulated, set screw, 3/4" diameter, to 15' H	0.04	C		\$23	\$8	\$0	\$0	\$32	\$5	\$2	<b>\$39</b>
			7.3	576.75	203.00			12.18	791.92	122.75	55.92	970.60
24	EMT couplings, set screw, steel, 3/4" diameter, to 15' H	0.07	C		\$0	\$15	\$0	\$1	\$16	\$3	\$4	<b>\$23</b>
					219.00			13.14	232.14	35.99	60.33	328.46
25	EMT 1 hole clips, 3/4" diameter, to 15' H	0.11	C		\$15	\$3	\$0	\$0	\$17	\$3	\$1	<b>\$21</b>
			1.7	134.27	23.00			1.38	158.66	24.60	6.34	189.59
26	Fasteners	0.15	C	2	\$119	\$2	\$0	\$0	\$120	\$19	\$0	<b>\$139</b>
			10	790.00	11.33			0.68	802.01	124.32	3.13	929.46
27	Wire, copper, solid, 600 volt, #14 RW90	0.07	M	1	\$47	\$4	\$0	\$0	\$52	\$8	\$1	<b>\$61</b>
			8.571	677.14	56.86			3.41	737.41	114.30	15.67	867.39
28	Wire, copper, solid, 600 volt, #12 RW90	0.23	M	2	\$142	\$18	\$0	\$0	\$161	\$25	\$5	<b>\$191</b>
			7.826	618.26	77.91			4.67	700.85	108.64	21.47	830.95
29	Nylon polyethylene pull rope, 1/4"	0.02	M		\$13	\$2	\$0	\$0	\$15	\$2	\$1	<b>\$18</b>
			8	632.00	110.00			6.60	748.60	116.00	30.30	894.90
30	Safety switches, heavy duty, 3 pole, fusible, 600 volt, 30 amp, NEMA 1	1	Ea.	3	\$198	\$325	\$0	\$0	\$20	\$542	\$0	<b>\$620</b>
			2.5	197.50	325.00			19.50	542.00		77.51	619.51
31	Safety switches, heavy duty, 3 pole, nonfusible, 600 volt, 30 amp, NEMA 3R	1	Ea.	3	\$204	\$305	\$0	\$0	\$18	\$527	\$0	<b>\$600</b>
			2.581	203.90	305.00			18.30	527.20		72.74	599.94
32	Fuses, cartridge, nonrenewable, 250 V, 30 amp	3	Ea.		\$38	\$7	\$0	\$0	\$45	\$0	\$2	<b>\$47</b>
			0.16	12.64	2.28			0.14	15.06		0.54	15.60
33	Foreman Review of Change	1	Ea.	1	\$40	\$0	\$0	\$0	\$40	\$6	\$0	<b>\$46</b>
			0.5	39.50					39.50	6.12		45.62

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$2,189</u>	<u>CHANGE ORDER #31 POWER SERVICE REQUIREMENTS FOR DOCK</u>											
<u>\$2,189</u>	<u>ELECTRICAL</u>											
<u>\$2,189</u>	<u>LIGHTING &amp; BRANCH WIRING</u>											
<b><u>BRANCH WIRING</u></b>												
<b>34 Update "AS-Builts"</b>	<b>1</b>	<b>Ea.</b>	<b>1</b>	<b>\$40</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$40</b>	<b>\$6</b>	<b>\$0</b>	<b>\$46</b>
			0.5	39.50					39.50	6.12		45.62
Subtotal				\$1,092	\$750	\$0	\$0	\$45	\$1,887	\$120	\$183	\$2,189
Taxes				\$0	\$45	\$0	\$0					
Subcontractor Markups				\$101	\$19	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$183	\$0	\$0					
<b>TOTAL BRANCH WIRING</b>			<b>14</b>	<b>\$1,193</b>	<b>\$996</b>	<b>\$0</b>	<b>\$0</b>	<b>\$45</b>	<b>\$1,887</b>	<b>\$120</b>	<b>\$183</b>	<b>\$2,189</b>
<b>1.00 LS</b>												
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<b><u>CHANGE ORDER #34 STRUCTURAL COORD - COUNCIL CHAMBER</u></b>												
<b>35 20 dia Kwik Bolt</b>	<b>24</b>	<b>EA</b>	<b>2</b>	<b>\$114</b>	<b>\$132</b>	<b>\$0</b>	<b>\$0</b>	<b>\$8</b>	<b>\$254</b>	<b>\$39</b>	<b>\$36</b>	<b>\$329</b>
			0.084	4.74	5.50			0.33	10.57	1.64	1.51	13.73
<b>36 12 dia Kwik Bolt</b>	<b>(8)</b>	<b>EA</b>	<b>(1)</b>	<b>(\$29)</b>	<b>(\$10)</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$1)</b>	<b>(\$39)</b>	<b>\$0</b>	<b>(\$2)</b>	<b>(\$42)</b>
			0.064	3.61	1.22			0.07	4.91		0.29	5.20
Subtotal				\$85	\$122	\$0	\$0	\$7	\$214	\$39	\$34	\$288
Taxes				\$0	\$7	\$0	\$0					
Subcontractor Markups				\$18	\$22	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$34	\$0	\$0					
<b>TOTAL CHANGE ORDER #34 STRUCTURAL COORD - COUNCIL CHAMBER</b>			<b>2</b>	<b>\$103</b>	<b>\$185</b>	<b>\$0</b>	<b>\$0</b>	<b>\$7</b>	<b>\$214</b>	<b>\$39</b>	<b>\$34</b>	<b>\$288</b>
<b>1.00 LS</b>												
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<b><u>CHANGE ORDER #35 C5 COLUMN CONNECTIONS, SECTION 19/S420</u></b>												
<b>37 Stud, 19 mm dia x 150 mm L</b>	<b>(40)</b>	<b>Ea.</b>	<b>(1)</b>	<b>(\$39)</b>	<b>(\$49)</b>	<b>(\$17)</b>	<b>\$0</b>	<b>(\$3)</b>	<b>(\$108)</b>	<b>(\$17)</b>	<b>(\$14)</b>	<b>(\$138)</b>
			0.017	0.98	1.23	0.41		0.07	2.69	0.42	0.34	3.45

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<b>CHANGE ORDER #35 C5 COLUMN CONNECTIONS, SECTION 19/S420</b>												
<b>38 Machinery anchor, heavy duty, 3/4" dia stud &amp; bolt, incl sleeve, floating base nut, lower stud &amp; coupling nut, fiber plug, connecting stud, washer &amp;</b>	<b>36</b>	<b>EA</b>	<b>19</b>	<b>\$1,102</b>	<b>\$3,096</b>	<b>\$175</b>	<b>\$0</b>	<b>\$186</b>	<b>\$4,559</b>	<b>\$707</b>	<b>\$853</b>	<b>\$6,118</b>
			0.533	30.62	86.00	4.86		5.16	126.64	19.63	23.69	169.96
Subtotal				\$1,063	\$3,047	\$158	\$0	\$183	\$4,451	\$690	\$839	\$5,980
Taxes				\$0	\$183	\$0	\$0					
Subcontractor Markups				\$165	\$501	\$25	\$0					
Prime Contractor Markups from 01 AA				\$0	\$839	\$0	\$0					
<b>TOTAL CHANGE ORDER #35 C5 COLUMN CONNECTIONS, SECTION 19/S420</b>	<b>19</b>			<b>\$1,228</b>	<b>\$4,569</b>	<b>\$183</b>	<b>\$0</b>	<b>\$183</b>	<b>\$4,451</b>	<b>\$690</b>	<b>\$839</b>	<b>\$5,980</b>
<b>1.00 LS</b>												
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<b>CHANGE ORDER #36 NORTH MEETING ROOM IN ATRIUM</b>												
<b>39 Stud, 19 mm dia x 150 mm L</b>	<b>(3)</b>	<b>Ea.</b>		<b>(\$3)</b>	<b>(\$4)</b>	<b>(\$1)</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$8)</b>	<b>(\$1)</b>	<b>(\$1)</b>	<b>(\$10)</b>
			0.017	0.98	1.23	0.41		0.07	2.69	0.42	0.34	3.45
<b>40 Machinery anchor, heavy duty, 3/4" dia stud &amp; bolt, incl sleeve, floating base nut, lower stud &amp; coupling nut, fiber plug, connecting stud, washer &amp;</b>	<b>3</b>	<b>EA</b>	<b>2</b>	<b>\$92</b>	<b>\$258</b>	<b>\$15</b>	<b>\$0</b>	<b>\$15</b>	<b>\$380</b>	<b>\$59</b>	<b>\$71</b>	<b>\$510</b>
			0.533	30.62	86.00	4.86		5.16	126.64	19.63	23.69	169.96
Subtotal				\$89	\$254	\$13	\$0	\$15	\$372	\$58	\$70	\$500
Taxes				\$0	\$15	\$0	\$0					
Subcontractor Markups				\$14	\$42	\$2	\$0					
Prime Contractor Markups from 01 AA				\$0	\$70	\$0	\$0					
<b>TOTAL CHANGE ORDER #36 NORTH MEETING ROOM IN ATRIUM</b>	<b>2</b>			<b>\$103</b>	<b>\$381</b>	<b>\$15</b>	<b>\$0</b>	<b>\$15</b>	<b>\$372</b>	<b>\$58</b>	<b>\$70</b>	<b>\$500</b>
<b>1.00 LS</b>												
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<b>CHANGE ORDER #45 TOILET REVISION</b>												
<b>41 WC</b>	<b>1</b>	<b>LS</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
					0.10			0.01	0.11		0.02	0.13



**Vaughan Civic Centre**

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<del>\$844,685</del>												
<del>\$844,685</del>												
<del>\$844,685</del>												
<b>CHANGE ORDER #45 TOILET REVISION</b>												
Taxes				\$0	\$0	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$0	\$0	\$0					
<b>TOTAL CHANGE ORDER #45 TOILET REVISION</b>				<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>1.00 LS</b>												
Memo: not enough information to evaluate change order. Need to have detail of water closets												
<del>\$844,685</del>												
<del>\$844,685</del>												
<del>\$2,826</del>												
<b>Plumbing</b>												
42 Drain, floor, cast iron, epoxy coated, 2", 3" and 4" pipe size	(1)	Ea.	(1)	(\$50)	(\$188)	\$0	\$0	(\$11)	(\$249)	(\$39)	(\$52)	(\$339)
			1.143	49.56	188.00			11.28	248.84	38.57	51.79	339.20
43 Y, cast iron soil, hub and spigot, reducing, service weight, 4" x 3", includes lead & oakum joints	(1)	Ea.	(2)	(\$77)	(\$36)	\$0	\$0	(\$2)	(\$115)	(\$18)	(\$10)	(\$142)
			1.778	77.09	35.50			2.13	114.72	17.78	9.78	142.28
44 Tee, cast iron soil, hub and spigot, sanitary, tapped, service weight, 3" x 2", gasket joint, includes gaskets	(1)	Ea.	(2)	(\$69)	(\$40)	\$0	\$0	(\$2)	(\$112)	(\$17)	(\$11)	(\$140)
			1.6	69.37	40.00			2.40	111.77	17.32	11.02	140.11
45 Pipe, cast iron soil, no hub, 1-1/2" diameter, includes couplings 10' O.C., hanger assemblies 5' O.C.	(10)	L.F.	(2)	(\$98)	(\$66)	\$0	\$0	(\$4)	(\$168)	(\$26)	(\$18)	(\$212)
			0.225	9.76	6.60			0.40	16.75	2.60	1.82	21.17
46 Coupling, standard (by CISPI mfrs.), cast iron soil, no hub, 3"	(6)	Ea.	(3)	(\$110)	(\$104)	\$0	\$0	(\$6)	(\$219)	(\$34)	(\$29)	(\$282)
			0.421	18.25	17.25			1.03	36.54	5.66	4.75	46.95
47 Coupling, standard (by CISPI mfrs.), cast iron soil, no hub, 4"	(2)	Ea.	(1)	(\$42)	(\$41)	\$0	\$0	(\$2)	(\$86)	(\$13)	(\$11)	(\$110)
			0.485	21.03	20.50			1.23	42.76	6.63	5.65	55.03
Subtotal				(\$445)	(\$474)	\$0	\$0	(\$28)	(\$948)	(\$147)	(\$131)	(\$1,225)
Taxes				\$0	(\$28)	\$0	\$0					
Subcontractor Markups				(\$69)	(\$78)	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	(\$131)	\$0	\$0					
<b>TOTAL Plumbing (10)</b>				<b>(\$514)</b>	<b>(\$711)</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$28)</b>	<b>(\$948)</b>	<b>(\$147)</b>	<b>(\$131)</b>	<b>(\$1,225)</b>

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<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$2,826</u>	<u>CHANGE ORDER #49 MECH PIPING AND DUCTWORK AT LEVEL 000-2008</u>												
<b><u>Heating</u></b>													
48	Pipe, steel, black, threaded, 1" diameter, schedule 40, Spec. A-53, includes coupling and clevis hanger assembly sized for covering, 10' OC	105	L.F.	16	\$764	\$398	\$0	\$0	\$24	\$1,186	\$184	\$110	<b>\$1,479</b>
				0.151	7.27	3.79		0.23	11.29	1.75	1.04	14.09	
49	Pipe, steel, black, threaded, 3/4" diameter, schedule 40, Spec. A-53, includes coupling and clevis hanger assembly sized for covering, 10' OC	105	L.F.	14	\$663	\$271	\$0	\$0	\$16	\$950	\$147	\$75	<b>\$1,172</b>
				0.131	6.31	2.58		0.16	9.05	1.40	0.71	11.16	
50	Elbow, 90 Deg., steel, cast iron, black, straight, threaded, standard weight, 1"	4	Ea.	2	\$119	\$19	\$0	\$0	\$1	\$139	\$21	\$5	<b>\$165</b>
				0.615	29.63	4.76		0.29	34.67	5.37	1.31	41.36	
51	Elbow, 90 Deg., steel, cast iron, black, straight, threaded, standard weight, 3/4"	4	Ea.	2	\$110	\$14	\$0	\$0	\$1	\$125	\$19	\$4	<b>\$148</b>
				0.571	27.51	3.42		0.20	31.13	4.83	0.94	36.90	
52	Valves, bronze, ball, threaded, 150 lb., 3/4"	2	Ea.	1	\$39	\$34	\$0	\$0	\$2	\$74	\$12	\$9	<b>\$95</b>
				0.4	19.27	16.95		1.02	37.24	5.77	4.67	47.68	
53	Valves, bronze, ball, threaded, 150 lb., 1"	2	Ea.	1	\$41	\$43	\$0	\$0	\$3	\$86	\$13	\$12	<b>\$111</b>
				0.421	20.28	21.50		1.29	43.07	6.68	5.92	55.67	
54	Pipe, copper, tubing, solder, 3/4" diameter, type L, includes coupling & clevis hanger assembly 10' O.C.	24	L.F.	3	\$121	\$84	\$0	\$0	\$5	\$211	\$33	\$23	<b>\$267</b>
				0.105	5.06	3.51		0.21	8.78	1.36	0.97	11.11	
55	Pipe, copper, tubing, solder, 1" diameter, type L, includes coupling & clevis hanger assembly 10' O.C.	24	L.F.	3	\$136	\$122	\$0	\$0	\$7	\$266	\$41	\$34	<b>\$341</b>
				0.118	5.68	5.10		0.31	11.09	1.72	1.41	14.22	
56	Misc Material	1	LS	8	\$385	\$250	\$0	\$0	\$15	\$650	\$101	\$69	<b>\$820</b>
				8	385.40	250.00		15.00	650.40	100.81	68.87	820.08	
	Subtotal				\$2,377	\$1,235	\$0	\$0	\$74	\$3,687	\$571	\$340	<b>\$4,598</b>
	Taxes				\$0	\$74	\$0	\$0					
	Subcontractor Markups				\$368	\$203	\$0	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$340	\$0	\$0					
<b>TOTAL Heating</b>		<b>49</b>			<b>\$2,746</b>	<b>\$1,852</b>	<b>\$0</b>	<b>\$0</b>	<b>\$74</b>	<b>\$3,687</b>	<b>\$571</b>	<b>\$340</b>	<b>\$4,598</b>

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$844,685</u> <u>\$844,685</u> <u>\$2,826</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #49 MECH PIPING AND DUCTWORK AT LEVEL 000-2008</u>											
<b><u>Sheetmetal</u></b>												
57 Galvanized Ductwork	(80)	KG	(15)	(\$778)	(\$320)	\$0	\$0	(\$19)	(\$1,117)	(\$173)	(\$88)	<b>(\$1,378)</b>
			0.185	9.72	4.00			0.24	13.97	2.17	1.10	17.23
58 Grille, aluminum, air return, 24" x 24"	(3)	Ea.	(2)	(\$90)	(\$255)	\$0	\$0	(\$15)	(\$360)	(\$56)	(\$70)	<b>(\$486)</b>
			0.533	30.02	85.00			5.10	120.12	18.62	23.41	162.15
59 Fishlock lock	(1)	LS		\$0	\$0	\$0	(\$16)	\$0	(\$16)	\$0	\$0	<b>(\$16)</b>
							16.05		16.05			16.05
Subtotal				(\$868)	(\$575)	\$0	(\$16)	(\$35)	(\$1,494)	(\$229)	(\$158)	<b>(\$1,881)</b>
Taxes				\$0	(\$35)	\$0	\$0					
Subcontractor Markups				(\$135)	(\$94)	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	(\$158)	\$0	\$0					
<b>TOTAL Sheetmetal (16) (\$1,003) (\$862) \$0 (\$16) (\$35) (\$1,494) (\$229) (\$158) (\$1,881)</b>												
<u>\$844,685</u> <u>\$844,685</u> <u>\$2,826</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #49 MECH PIPING AND DUCTWORK AT LEVEL 000-2008</u>											
<b><u>Insulation</u></b>												
60 Insulation, pipe covering (price copper tube one size less than I.P.S.), fiberglass with all service jacket, 1" wall, 3/4" iron pipe size	105	L.F.	9	\$486	\$102	\$0	\$0	\$6	\$594	\$92	\$28	<b>\$715</b>
			0.09	4.63	0.97			0.06	5.66	0.88	0.27	6.80
61 Insulation, pipe covering (price copper tube one size less than I.P.S.), fiberglass with all service jacket, 1" wall, 1" iron pipe size	105	L.F.	8	\$395	\$109	\$0	\$0	\$7	\$510	\$79	\$30	<b>\$619</b>
			0.073	3.76	1.04			0.06	4.86	0.75	0.29	5.90
Subtotal				\$881	\$211	\$0	\$0	\$13	\$1,105	\$171	\$58	<b>\$1,334</b>
Taxes				\$0	\$13	\$0	\$0					
Subcontractor Markups				\$137	\$35	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$58	\$0	\$0					
<b>TOTAL Insulation 17 \$1,017 \$317 \$0 \$0 \$13 \$1,105 \$171 \$58 \$1,334</b>												

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**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<b><u>CHANGE ORDER #54 HYDROCARBON SOILS REMOVAL</u></b>													
62	Excavate & load contaminated soil, 1-1/2 C.Y. excavator	8	HR	16	\$767	\$0	\$830	\$0	\$0	\$1,597	\$248	\$0	<b>\$1,845</b>
				2	95.93		103.75		199.68	30.95			230.63
63	Hauling contaminated soil, 15 mile round trip, 2 hr./trip, 1ea, 16.5 C.Y. dump trailer, highway haulers	3.37	Load	7	\$165	\$0	\$476	\$0	\$0	\$641	\$99	\$0	<b>\$741</b>
				2	49.10		141.15		190.25	29.49			219.74
64	Contaminated soil dumpsite disposal charge	95.07	MT		\$0	\$5,229	\$0	\$0	\$314	\$5,543	\$859	\$1,440	<b>\$7,842</b>
						55.00			3.30	58.30	9.04	15.15	82.49
65	Hauling soil, 2 mile round trip, 2.1 load/hr, 16.5 C.Y. dump trailer, highway haulers	(3.37)	Load	(2)	(\$41)	\$0	(\$119)	\$0	\$0	(\$160)	(\$25)	\$0	<b>(\$185)</b>
				0.5	12.28		35.29		47.56	7.37			54.94
	Subtotal				\$892	\$5,229	\$1,187	\$0	\$314	\$7,621	\$1,181	\$1,440	<b>\$10,243</b>
	Taxes				\$0	\$314	\$0	\$0					
	Subcontractor Markups				\$138	\$859	\$184	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$1,440	\$0	\$0					
<b>TOTAL CHANGE ORDER #54 HYDROCARBON SOILS REMOVAL</b>		<b>21</b>			<b>\$1,030</b>	<b>\$7,842</b>	<b>\$1,371</b>	<b>\$0</b>	<b>\$314</b>	<b>\$7,621</b>	<b>\$1,181</b>	<b>\$1,440</b>	<b>\$10,243</b>
	<b>1.00 LS</b>												

\$844,685 VAUGHN CITY HALL CHANGE ORDERS  
\$844,685 VAUGHN CITY HALL CHANGE ORDERS  
\$844,685 VAUGHN CITY HALL CHANGE ORDERS

**CHANGE ORDER #55 HYDROCARBON SOILS REMOVAL**

66	Excavate & load contaminated soil, 1-1/2 C.Y. excavator	35.50	HR	71	\$3,406	\$0	\$3,683	\$0	\$0	\$7,089	\$1,099	\$0	<b>\$8,187</b>
				2	95.93		103.75		199.68	30.95			230.63
67	Hauling contaminated soil, 15 mile round trip, 2 hr./trip, 1ea, 16.5 C.Y. dump trailer, highway haulers	6	Load	12	\$295	\$0	\$847	\$0	\$0	\$1,142	\$177	\$0	<b>\$1,318</b>
				2	49.10		141.15		190.25	29.49			219.74
68	Hauling contaminated soil, 70 mile round trip, 9 hr./trip, 2ea 16.5 C.Y. dump trailer, highway haulers	39	Load	351	\$8,617	\$0	\$29,642	\$0	\$0	\$38,259	\$5,930	\$0	<b>\$44,189</b>
				9	220.96		760.05		981.01	152.06			1,133.06
69	Hauling soil, 2 mile round trip, 2.1 load/hr, 16.5 C.Y. dump trailer, highway haulers	(45)	Load	(23)	(\$552)	\$0	(\$1,588)	\$0	\$0	(\$2,140)	(\$332)	\$0	<b>(\$2,472)</b>
				0.5	12.28		35.29		47.56	7.37			54.94

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<b><u>CHANGE ORDER #55 HYDROCARBON SOILS REMOVAL</u></b>													
70	Contaminated soil dumpsite disposal charge	1,812.33	MT		\$0	\$99,678	\$0	\$0	\$5,981	\$105,659	\$16,377	\$27,458	<b>\$149,494</b>
						55.00			3.30	58.30	9.04	15.15	82.49
71	Removal contaminated water and remaining product from tank & excavation with vacuum truck, includes disposal fee	4,557	LIT	5	\$226	\$456	\$486	\$0	\$0	\$1,168	\$181	\$118	<b>\$1,467</b>
				0.001	0.05	0.10	0.11		0.26	0.04	0.03	0.32	
72	Removal of underground storage tanks, petroleum storage tanks, non-leaking, excavate, haul tank to certified dump, 100 miles round trip, 500 gal	1	Ea.	8	\$330	\$0	\$171	\$0	\$0	\$502	\$78	\$0	<b>\$580</b>
				8	330.49		171.40		501.89	77.79			579.68
73	Removal of underground storage tanks, petroleum storage tanks, non-leaking, remove sludge, wash and wipe tank, 500 Gallons	1	Ea.	1	\$48	\$0	\$0	\$0	\$0	\$48	\$7	\$0	<b>\$56</b>
				1	48.17				48.17	7.47			55.64
	Subtotal				\$12,370	\$100,134	\$33,241	\$0	\$5,981	\$151,726	\$23,517	\$27,577	<b>\$202,820</b>
	Taxes				\$0	\$5,981	\$0	\$0					
	Subcontractor Markups				\$1,917	\$16,448	\$5,152	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$27,577	\$0	\$0					
<b>TOTAL CHANGE ORDER #55 HYDROCARBON SOILS REMOVAL</b>		<b>426</b>			<b>\$14,287</b>	<b>\$150,139</b>	<b>\$38,394</b>	<b>\$0</b>	<b>\$5,981</b>	<b>\$151,726</b>	<b>\$23,517</b>	<b>\$27,577</b>	<b>\$202,820</b>
	<b>1.00 LS</b>												
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
	<u>CHANGE ORDER #76 SECURITY TENDER</u>												
	<u>ELECTRICAL</u>												
	<u>COMMUNICATIONS &amp; SECURITY</u>												
<b><u>SECURITY SYSTEMS</u></b>													
74	Security Work CCO/CD / SI No.: 159	1	Ea.		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$0</b>
						0.01			0.01				0.01
	Taxes				\$0	\$0	\$0	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$0	\$0	\$0					
<b>TOTAL SECURITY SYSTEMS</b>					<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
Memo: LUMP SUM CONTRACT - Can not evaluate due to lack of material and labor quantities.													

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<b><u>CHANGE ORDER #77 STRUCTURAL COORDINATION IFC DRAWINGS</u></b>													
<b>75</b>	<b>Structural concrete, placing</b>	<b>55.80</b>	m3	78	\$4,129	\$1,953	\$961	\$0	\$117	\$7,160	\$1,110	\$538	<b>\$8,808</b>
				1.395	74.00	35.00	17.22		2.10	128.32	19.89	9.64	157.85
<b>76</b>	<b>C.I.P. concrete forms</b>	<b>104.60</b>	m2CA	146	\$8,159	\$2,929	\$0	\$0	\$176	\$11,264	\$1,746	\$807	<b>\$13,816</b>
				1.396	78.00	28.00			1.68	107.68	16.69	7.71	132.09
<b>77</b>	<b>Concrete Material</b>	<b>54</b>	m3		\$0	\$9,288	\$0	\$0	\$557	\$9,845	\$0	\$2,215	<b>\$12,060</b>
						172.00			10.32	182.32		41.02	223.34
<b>78</b>	<b>Reinforcing steel, in place, beams and girders, #25M to #55M, A615M, grade 300,incl labor for accessories, excl material for accessories</b>	<b>0.28</b>	Met.	4	\$155	\$485	\$0	\$0	\$29	\$668	\$104	\$133	<b>\$905</b>
				13.296	552.79	1,730.36			103.82	2,386.96	369.98	476.66	3,233.60
<b>79</b>	<b>Re-Detailing</b>	<b>1</b>	HRS	1	\$65	\$0	\$0	\$0	\$0	\$65	\$0	\$0	<b>\$65</b>
				1	65.00					65.00			65.00
<b>80</b>	<b>Structural Steel Framing</b>	<b>0.65</b>	Met.	8	\$406	\$2,194	\$179	\$0	\$132	\$2,911	\$451	\$604	<b>\$3,966</b>
				11.603	625.01	3,375.00	275.37		202.50	4,477.89	694.07	929.70	6,101.66
<b>81</b>	<b>Paints and protective coatings, galvanizing structural steel in shop, under 1 ton, hot dip</b>	<b>0.65</b>	MT		\$0	\$648	\$0	\$0	\$39	\$687	\$0	\$155	<b>\$842</b>
						997.60			59.85	1,057.45		237.93	1,295.38
<b>82</b>	<b>Metal decking, steel, open type, wide rib, galvanized, under 50 Sq, 3" D, 20 ga</b>	<b>44.40</b>	M2	4	\$245	\$1,969	\$20	\$0	\$118	\$2,352	\$365	\$542	<b>\$3,259</b>
				0.097	5.52	44.35	0.44		2.66	52.97	8.21	12.22	73.39
<b>83</b>	<b>SCAFFOLD SUPPORT</b>	<b>5</b>	EA	5	\$221	\$0	\$7,750	\$0	\$0	\$7,971	\$0	\$0	<b>\$7,971</b>
				1	44.11		1,550.00			1,594.11			1,594.11

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$844,685</u> <u>\$844,685</u> <u>\$844,685</u>												
<b><u>CHANGE ORDER #77 STRUCTURAL COORDINATION IFC DRAWINGS</u></b>												
<b>84 Masonry</b>	<b>110</b>	EA		\$0	\$0	\$0	\$1,139	\$0	\$1,139	\$0	\$0	<b>\$1,139</b>
							10.35		10.35			10.35
Subtotal				\$13,380	\$19,466	\$8,909	\$1,139	\$1,168	\$44,061	\$3,775	\$4,995	<b>\$52,831</b>
Taxes				\$0	\$1,168	\$0	\$0					
Subcontractor Markups				\$2,030	\$1,566	\$180	\$0					
Prime Contractor Markups from 01 AA				\$0	\$4,995	\$0	\$0					
<b>TOTAL CHANGE ORDER #77 STRUCTURAL COORDINATION IFC DRAWINGS</b>	<b>245</b>			<b>\$15,409</b>	<b>\$27,194</b>	<b>\$9,089</b>	<b>\$1,139</b>	<b>\$1,168</b>	<b>\$44,061</b>	<b>\$3,775</b>	<b>\$4,995</b>	<b>\$52,831</b>
<b>1.00 LS</b>												
Memo: Contractor's cost kept for masonry. Not enough information upon which to base evaluation.												
<u>\$844,685</u> <u>\$844,685</u> <u>\$24,746</u>												
<b><u>Delete</u></b>												
<b>85 Galvanized Ductwork</b>	<b>(1,255)</b>	KG	(232)	(\$12,204)	(\$5,020)	\$0	\$0	(\$301)	(\$17,526)	(\$2,716)	(\$1,383)	<b>(\$21,625)</b>
			0.185	9.72	4.00			0.24	13.97	2.17	1.10	17.23
<b>86 Galvanized Rectangular Elbow and riser w/ insulation</b>	<b>(1)</b>	LS		\$0	(\$875)	\$0	\$0	(\$52)	(\$927)	(\$144)	(\$241)	<b>(\$1,312)</b>
					874.80			52.49	927.29	143.73	240.98	1,312.00
Subtotal				(\$12,204)	(\$5,895)	\$0	\$0	(\$354)	(\$18,453)	(\$2,860)	(\$1,624)	<b>(\$22,937)</b>
Taxes				\$0	(\$354)	\$0	\$0					
Subcontractor Markups				(\$1,892)	(\$969)	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	(\$1,624)	\$0	\$0					
<b>TOTAL Delete</b>	<b>(232)</b>			<b>(\$14,096)</b>	<b>(\$8,841)</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$354)</b>	<b>(\$18,453)</b>	<b>(\$2,860)</b>	<b>(\$1,624)</b>	<b>(\$22,937)</b>
<u>\$844,685</u> <u>\$844,685</u> <u>\$24,746</u>												
<b><u>Add</u></b>												
<b>87 Galvanized Ductwork</b>	<b>955</b>	KG	177	\$9,287	\$3,820	\$0	\$0	\$229	\$13,336	\$2,067	\$1,052	<b>\$16,456</b>
			0.185	9.72	4.00			0.24	13.97	2.17	1.10	17.23
<b>88 Galvanized Rectangular Elbow and riser w/ insulation</b>	<b>1</b>	LS		\$0	\$743	\$0	\$0	\$45	\$787	\$122	\$205	<b>\$1,114</b>
					742.68			44.56	787.24	122.02	204.58	1,113.85

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$844,685</u> <u>\$844,685</u> <u>\$24,746</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #81 KITCHEN DUCTS-2008</u>											
<b>Add</b>												
89 3M Firemaster 2'x25'	30	EA		\$0	\$12,750	\$0	\$0	\$765	\$13,515	\$2,095	\$3,512	\$19,122
					425.00			25.50	450.50	69.83	117.07	637.40
90 1/2" Stainless steel banding	3	EA		\$0	\$450	\$0	\$0	\$27	\$477	\$74	\$124	\$675
					150.00			9.00	159.00	24.65	41.32	224.97
91 3" Foil tape	8	EA		\$0	\$200	\$0	\$0	\$12	\$212	\$33	\$55	\$300
					25.00			1.50	26.50	4.11	6.89	37.49
92 1/2" Banding seals	100	EA		\$0	\$25	\$0	\$0	\$2	\$27	\$4	\$7	\$37
					0.25			0.01	0.27	0.04	0.07	0.38
93 Labor	1	LS		\$8,640	\$0	\$0	\$0	\$0	\$8,640	\$1,339	\$0	\$9,979
				8,640.00					8,640.00	1,339.20		9,979.20
Subtotal				\$17,927	\$17,988	\$0	\$0	\$1,079	\$36,994	\$5,734	\$4,955	\$47,683
Taxes				\$0	\$1,079	\$0	\$0	\$0				
Subcontractor Markups				\$2,779	\$2,955	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$4,955	\$0	\$0					
<b>TOTAL Add</b>			<b>177</b>	<b>\$20,706</b>	<b>\$26,977</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,079</b>	<b>\$36,994</b>	<b>\$5,734</b>	<b>\$4,955</b>	<b>\$47,683</b>

\$844,685  
\$844,685  
\$30,155

VAUGHN CITY HALL CHANGE ORDERS  
VAUGHN CITY HALL CHANGE ORDERS  
CHANGE ORDER #85 COMPARTMENT UNIT ROOM MOCK-UPS-2008

**Room 080**

94 Acoustic Plenum-Galvanized Ductwork	174	KG	94	\$4,939	\$696	\$0	\$0	\$42	\$5,677	\$880	\$192	\$6,748
			0.54	28.39	4.00			0.24	32.63	5.06	1.10	38.78
95 Insulation, ductwork, blanket type, fiberglass, flexible, fire resistant liner, black coating one side, 1-1/2 lb. density, 2" thick	22.50	M2	16	\$811	\$363	\$0	\$0	\$22	\$1,196	\$185	\$100	\$1,481
			0.7	36.03	16.15			0.97	53.15	8.24	4.45	65.83
96 Reinforcement for plenum	1	LS	10	\$515	\$400	\$0	\$0	\$24	\$939	\$145	\$110	\$1,194
			10	514.71	400.00			24.00	938.71	145.50	110.19	1,194.40



**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$844,685</u> <u>\$844,685</u> <u>\$30,155</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #85 COMPARTMENT UNIT ROOM MOCK-UPS-2008</u>											
<b>Room 080</b>												
97 Galvanized Ductwork	100	KG	19 0.185	\$972 9.72	\$400 4.00	\$0	\$0	\$24 0.24	\$1,396 13.97	\$216 2.17	\$110 1.10	<b>\$1,723</b> 17.23
98 Duct Insulation	15	M2	11 0.7	\$540 36.03	\$242 16.15	\$0	\$0	\$15 0.97	\$797 53.15	\$124 8.24	\$67 4.45	<b>\$988</b> 65.83
99 Galvanized Rectangular Elbow and riser w/ insulation	1	LS	5 5	\$257 257.35	\$650 650.00	\$0	\$0	\$39 39.00	\$946 946.35	\$147 146.69	\$179 179.05	<b>\$1,272</b> 1,272.09
Subtotal				\$8,035	\$2,752	\$0	\$0	\$165	\$10,951	\$1,697	\$758	<b>\$13,407</b>
Taxes				\$0	\$165	\$0	\$0					
Subcontractor Markups				\$1,245	\$452	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$758	\$0	\$0					
<b>TOTAL Room 080 154 \$9,280 \$4,127 \$0 \$0 \$165 \$10,951 \$1,697 \$758 \$13,407</b>												

\$844,685  
\$844,685  
\$30,155

VAUGHN CITY HALL CHANGE ORDERS  
VAUGHN CITY HALL CHANGE ORDERS  
CHANGE ORDER #85 COMPARTMENT UNIT ROOM MOCK-UPS-2008

**Room 180**

100 Acoustic Plenum-Galvanized Ductwork	252	KG	136 0.54	\$7,153 28.39	\$1,008 4.00	\$0	\$0	\$60 0.24	\$8,222 32.63	\$1,274 5.06	\$278 1.10	<b>\$9,774</b> 38.78
101 Insulation, ductwork, blanket type, fiberglass, flexible, fire resistant liner, black coating one side, 1-1/2 lb. density, 2" thick	33	M2	23 0.7	\$1,189 36.03	\$533 16.15	\$0	\$0	\$32 0.97	\$1,754 53.15	\$272 8.24	\$147 4.45	<b>\$2,173</b> 65.83
102 Reinforcement for plenum	1	LS	12 12	\$618 617.65	\$450 450.00	\$0	\$0	\$27 27.00	\$1,095 1,094.65	\$170 169.67	\$124 123.96	<b>\$1,388</b> 1,388.28
103 Galvanized Rectangular Elbow and riser w/ insulation	1	LS		\$0	\$2,235 2,234.72	\$0	\$0	\$134 134.08	\$2,369 2,368.80	\$367 367.16	\$616 615.59	<b>\$3,352</b> 3,351.56

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<p><u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$30,155</u>      <u>CHANGE ORDER #85 COMPARTMENT UNIT ROOM MOCK-UPS-2008</u></p>												
<b>Room 180</b>												
104 Labor Galvanized ductwork for elbow and riser	1	LS		\$1,500	\$0	\$0	\$0	\$0	\$1,500	\$233	\$0	\$1,733
				1,500.00					1,500.00	232.50		1,732.50
Subtotal				\$10,460	\$4,226	\$0	\$0	\$254	\$14,939	\$2,316	\$1,164	\$18,419
Taxes				\$0	\$254	\$0	\$0					
Subcontractor Markups				\$1,621	\$694	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$1,164	\$0	\$0					
<b>TOTAL Room 180</b>	<b>171</b>			<b>\$12,081</b>	<b>\$6,338</b>	<b>\$0</b>	<b>\$0</b>	<b>\$254</b>	<b>\$14,939</b>	<b>\$2,316</b>	<b>\$1,164</b>	<b>\$18,419</b>
<p><u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$30,155</u>      <u>CHANGE ORDER #85 COMPARTMENT UNIT ROOM MOCK-UPS-2008</u></p>												
<b>Delete</b>												
105 Delete items	(1)	LS		\$0	\$0	\$0	(\$1,671)	\$0	(\$1,671)	\$0	\$0	(\$1,671)
							1,670.50		1,670.50			1,670.50
<b>TOTAL Delete</b>				<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$1,671)</b>	<b>\$0</b>	<b>(\$1,671)</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$1,671)</b>
<p><u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$2,263</u>      <u>CHANGE ORDER #87 HEATER REVISIONS AND FUNNEL FLOOR</u></p>												
<b>Heating</b>												
106 Pipe, steel, black, threaded, 3/4" diameter, schedule 40, Spec. A-53, includes coupling and clevis hanger assembly sized for covering, 10' OC	(55)	L.F.	(7)	(\$347)	(\$142)	\$0	\$0	(\$9)	(\$498)	(\$77)	(\$39)	(\$614)
			0.131	6.31	2.58			0.16	9.05	1.40	0.71	11.16
107 FF Heater	(1)	EA	3	\$145	(\$580)	\$0	\$0	(\$35)	(\$470)	\$0	(\$138)	(\$609)
			-3	(144.52)	580.00			34.80	470.28		138.33	608.61
Subtotal				(\$203)	(\$722)	\$0	\$0	(\$43)	(\$968)	(\$77)	(\$177)	(\$1,222)
Taxes				\$0	(\$43)	\$0	\$0					
Subcontractor Markups				(\$54)	(\$23)	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	(\$177)	\$0	\$0					
<b>TOTAL Heating</b>	<b>(4)</b>			<b>(\$256)</b>	<b>(\$966)</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$43)</b>	<b>(\$968)</b>	<b>(\$77)</b>	<b>(\$177)</b>	<b>(\$1,222)</b>

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<del>\$844,685</del>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<del>\$844,685</del>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<del>\$2,263</del>	<u>CHANGE ORDER #87 HEATER REVISIONS AND FUNNEL FLOOR</u>											
<b><u>Plumbing</u></b>												
108	Drain, floor, acid resistant, PVC, 2", 3" and 4" pipe size	2 Ea.	2	\$87	\$420	\$0	\$0	\$25	\$532	\$82	\$116	<b>\$730</b>
			1	43.35	210.00			12.60	265.95	41.22	57.85	365.03
109	Pipe, plastic, polyethylene, flexible, 160 PSI, 4" diameter, SDR 9	40 L.F.	6	\$251	\$208	\$0	\$0	\$12	\$472	\$73	\$57	<b>\$602</b>
			0.145	6.29	5.20			0.31	11.80	1.83	1.43	15.06
110	Elbow, 45 Deg., plastic, PVC, white, socket joint, 4", schedule 40	3 Ea.	3	\$114	\$56	\$0	\$0	\$3	\$173	\$27	\$15	<b>\$216</b>
			0.879	38.11	18.55			1.11	57.77	8.96	5.11	71.84
111	Elbow, 90 Deg., plastic, PVC, white, socket joint, 4", schedule 40	4 Ea.	4	\$152	\$56	\$0	\$0	\$3	\$212	\$33	\$15	<b>\$260</b>
			0.879	38.11	14.00			0.84	52.95	8.21	3.86	65.01
112	Combination Y and 1/8 bend, plastic, ABS, non-pressure, socket joint, 4", type DWV	1 Ea.	1	\$43	\$210	\$0	\$0	\$13	\$266	\$41	\$58	<b>\$365</b>
			1	43.36	210.00			12.60	265.96	41.22	57.85	365.03
113	Tee, plastic, ABS, non-pressure, sanitary, reducing, socket joint, 4" x 3", type DWV	2 Ea.	3	\$115	\$37	\$0	\$0	\$2	\$153	\$24	\$10	<b>\$187</b>
			1.322	57.32	18.30			1.10	76.72	11.89	5.04	93.65
114	Reducer, plastic, ABS, non-pressure, bushing, socket joint, 4" x 2", type DWV	1 Ea.	1	\$38	\$10	\$0	\$0	\$1	\$49	\$8	\$3	<b>\$59</b>
			0.879	38.11	10.15			0.61	48.87	7.58	2.80	59.24
115	Reducer, plastic, ABS, non-pressure, bushing, socket joint, 2" x 1-1/2", type DWV	1 Ea.		\$19	\$1	\$0	\$0	\$0	\$20	\$3	\$0	<b>\$24</b>
			0.44	19.08	1.32			0.08	20.48	3.17	0.36	24.02
116	Elbow 90, plastic, ABS, non-pressure, sanitary, socket joint, 1-1/2", type DWV	3 Ea.	2	\$96	\$7	\$0	\$0	\$0	\$103	\$16	\$2	<b>\$121</b>
			0.661	31.84	2.38			0.14	34.37	5.33	0.66	40.35
117	Pipe, plastic, ABS, 1-1/2" diameter, DWV, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	12 L.F.	3	\$128	\$20	\$0	\$0	\$1	\$149	\$23	\$5	<b>\$178</b>
			0.222	10.70	1.63			0.10	12.42	1.93	0.45	14.80
118	Pipe, plastic, PVC, foam core, 1-1/2" diameter, DWV, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	12 L.F.	2	\$119	\$18	\$0	\$0	\$1	\$137	\$21	\$5	<b>\$163</b>
			0.205	9.88	1.46			0.09	11.42	1.77	0.40	13.60

**Vaughan Civic Centre**

**EXPANDED - DETAIL REPORT**

Vaughan, Ontario

U. S. Cost

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$844,685</u> <u>\$844,685</u> <u>\$2,263</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #87 HEATER REVISIONS AND FUNNEL FLOOR</u>												
<b><u>Plumbing</u></b>													
119	Combination Y and 1/8 bend, plastic, ABS, non-pressure, socket joint, 1-1/2", type DWV	1	Ea.	1	\$32	\$6	\$0	\$0	\$0	\$38	\$6	\$2	<b>\$45</b>
				0.661	31.84	5.55		0.33	37.72	5.85	1.53	45.10	
120	Elbow, 1/4 bend, plastic, ABS, non-pressure, socket joint, 1-1/2", type DWV	6	Ea.	3	\$127	\$10	\$0	\$0	\$1	\$138	\$21	\$3	<b>\$163</b>
				0.44	21.20	1.74		0.10	23.04	3.57	0.48	27.09	
121	Misc Material	1	LS	4	\$193	\$100	\$0	\$0	\$6	\$299	\$46	\$28	<b>\$373</b>
				4	192.70	100.00		6.00	298.70	46.30	27.55	372.55	
	Subtotal				\$1,514	\$1,158	\$0	\$0	\$69	\$2,742	\$425	\$319	<b>\$3,486</b>
	Taxes				\$0	\$69	\$0	\$0					
	Subcontractor Markups				\$235	\$190	\$0	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$319	\$0	\$0					
<b>TOTAL Plumbing</b>		<b>33</b>			<b>\$1,749</b>	<b>\$1,737</b>	<b>\$0</b>	<b>\$0</b>	<b>\$69</b>	<b>\$2,742</b>	<b>\$425</b>	<b>\$319</b>	<b>\$3,486</b>

<u>\$844,685</u> <u>\$844,685</u> <u>\$7,553</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #89 STORM DRAINS AND PIPING</u>												
<b><u>Delete</u></b>													
122	Public Water Utility Distribution Piping, ductile iron pipe, cement lined, mechanical joint, no fittings, 18' lengths, 4" diameter, class 50,	(45)	L.F.	(9)	(\$427)	(\$657)	(\$135)	\$0	(\$39)	(\$1,259)	(\$195)	(\$181)	<b>(\$1,635)</b>
				0.2	9.48	14.60	3.01	0.88	27.97	4.34	4.02	36.33	
123	8x4 Y MJ	(1)	Ea.	(3)	(\$120)	(\$240)	\$0	\$0	(\$14)	(\$374)	(\$58)	(\$66)	<b>(\$498)</b>
				2.667	119.92	239.59		14.38	373.88	57.95	66.00	497.84	
124	Public Water Utility Distribution Piping, fitting, 90 degree bend or elbow, mechanical joint, ductile iron, cement lined, 4" diameter, class 50 water	(2)	Ea.	(4)	(\$194)	(\$372)	\$0	\$0	(\$22)	(\$588)	(\$91)	(\$102)	<b>(\$781)</b>
				2	96.79	186.00		11.16	293.95	45.56	51.24	390.75	
125	Public Water Utility Distribution Piping, fitting, 45 degree bend, ductile iron, cement lined, mechanical joint, 4" diameter, class 50 water piping	(1)	Ea.	(2)	(\$97)	(\$145)	\$0	\$0	(\$9)	(\$250)	(\$39)	(\$40)	<b>(\$329)</b>
				2	96.79	145.00		8.70	250.49	38.83	39.94	329.26	
126	Coupling, steel, black, straight, threaded, extra heavy weight, 8"	(2)	Ea.	(7)	(\$308)	(\$199)	\$0	\$0	(\$12)	(\$519)	(\$80)	(\$55)	<b>(\$655)</b>
				3.429	154.18	99.50		5.97	259.65	40.25	27.41	327.31	

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$844,685</u> <u>\$844,685</u> <u>\$7,553</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #89 STORM DRAINS AND PIPING</u>											
<b>Delete</b>												
127	Coupling, steel, black, straight, threaded, extra heavy weight, 4"	(9) Ea.	(14)	(\$624)	(\$270)	\$0	\$0	(\$16)	(\$911)	(\$141)	(\$74)	<b>(\$1,126)</b>
			1.6	69.37	30.00			1.80	101.17	15.68	8.26	125.12
128	Misc Material	(1) LS	(4)	(\$193)	(\$100)	\$0	\$0	(\$6)	(\$299)	(\$46)	(\$28)	<b>(\$373)</b>
			4	192.70	100.00			6.00	298.70	46.30	27.55	372.55
	Subtotal			(\$1,962)	(\$1,983)	(\$135)	\$0	(\$119)	(\$4,199)	(\$651)	(\$546)	<b>(\$5,396)</b>
	Taxes			\$0	(\$119)	\$0	\$0					
	Subcontractor Markups			(\$304)	(\$326)	(\$21)	\$0					
	Prime Contractor Markups from 01 AA			\$0	(\$546)	\$0	\$0					
<b>TOTAL Delete</b>		<b>(43)</b>		<b>(\$2,267)</b>	<b>(\$2,973)</b>	<b>(\$156)</b>	<b>\$0</b>	<b>(\$119)</b>	<b>(\$4,199)</b>	<b>(\$651)</b>	<b>(\$546)</b>	<b>(\$5,396)</b>

<u>\$844,685</u> <u>\$844,685</u> <u>\$7,553</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #89 STORM DRAINS AND PIPING</u>											
<b>Add</b>												
129	Drain, roof, flat metal deck, cast iron body, 12" cast iron dome, 4" pipe size	1 Ea.	1	\$53	\$247	\$0	\$0	\$15	\$315	\$49	\$68	<b>\$432</b>
			1.231	53.37	247.00			14.82	315.19	48.85	68.04	432.08
130	Public Water Utility Distribution Piping, ductile iron pipe, cement lined, mechanical joint, no fittings, 18' lengths, 6" diameter, class 50,	60 L.F.	15	\$711	\$1,017	\$226	\$0	\$61	\$2,015	\$312	\$280	<b>\$2,607</b>
			0.25	11.85	16.95	3.76		1.02	33.58	5.21	4.67	43.46
131	6x4 Y MJ	1 Ea.	3	\$120	\$78	\$0	\$0	\$5	\$202	\$31	\$21	<b>\$255</b>
			2.667	119.92	77.72			4.66	202.30	31.36	21.41	255.07
132	4Y MJ	2 Ea.	5	\$213	\$66	\$0	\$0	\$4	\$284	\$44	\$18	<b>\$346</b>
			2.462	106.75	33.07			1.98	141.80	21.98	9.11	172.89
133	Public Water Utility Distribution Piping, fitting, 90 degree bend or elbow, mechanical joint, ductile iron, cement lined, 4" diameter, class 50 water	1 Ea.	2	\$97	\$186	\$0	\$0	\$11	\$294	\$46	\$51	<b>\$391</b>
			2	96.79	186.00			11.16	293.95	45.56	51.24	390.75
134	Public Water Utility Distribution Piping, fitting, reducer, ductile iron, cement lined, mechanical joint, 6" x 4" diameter, class 50 water piping	1 Ea.	2	\$109	\$156	\$0	\$0	\$9	\$274	\$43	\$43	<b>\$360</b>
			2.25	108.89	156.00			9.36	274.25	42.51	42.97	359.73

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$844,685</u> <u>\$844,685</u> <u>\$7,553</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #89 STORM DRAINS AND PIPING</u>											
<b>Add</b>												
135	8x6 Y MJ	1 Ea.	3	\$120	\$288	\$0	\$0	\$17	\$425	\$66	\$79	\$570
			2.667	119.92	287.82			17.27	425.01	65.88	79.28	570.17
136	Public Water Utility Distribution Piping, fitting, 45 degree bend, ductile iron, cement lined, mechanical joint, 6" diameter, class 50 water piping	1 Ea.	3	\$121	\$201	\$0	\$0	\$12	\$334	\$52	\$55	\$441
			2.5	120.98	201.00			12.06	334.04	51.78	55.37	441.19
137	Public Water Utility Distribution Piping, fitting, 90 degree bend or elbow, mechanical joint, ductile iron, cement lined, 6" diameter, class 50 water	2 Ea.	5	\$242	\$508	\$0	\$0	\$30	\$780	\$121	\$140	\$1,041
			2.5	120.99	254.00			15.24	390.23	60.48	69.97	520.68
138	Coupling, steel, black, straight, threaded, extra heavy weight, 8"	2 Ea.	7	\$308	\$199	\$0	\$0	\$12	\$519	\$80	\$55	\$655
			3.429	154.18	99.50			5.97	259.65	40.25	27.41	327.31
139	Coupling, steel, black, straight, threaded, extra heavy weight, 6"	16 Ea.	48	\$2,158	\$840	\$0	\$0	\$50	\$3,049	\$473	\$231	\$3,753
			3	134.89	52.50			3.15	190.54	29.53	14.46	234.54
140	Coupling, steel, black, straight, threaded, extra heavy weight, 4"	12 Ea.	19	\$832	\$360	\$0	\$0	\$22	\$1,214	\$188	\$99	\$1,501
			1.6	69.37	30.00			1.80	101.17	15.68	8.26	125.12
141	Misc Material	1 LS	4	\$193	\$250	\$0	\$0	\$15	\$458	\$71	\$69	\$598
			4	192.70	250.00			15.00	457.70	70.94	68.87	597.51
	Subtotal			\$5,278	\$4,396	\$226	\$0	\$264	\$10,163	\$1,575	\$1,211	\$12,950
	Taxes			\$0	\$264	\$0	\$0					
	Subcontractor Markups			\$818	\$722	\$35	\$0					
	Prime Contractor Markups from 01 AA			\$0	\$1,211	\$0	\$0					
<b>TOTAL Add</b>			<b>116</b>	<b>\$6,096</b>	<b>\$6,592</b>	<b>\$261</b>	<b>\$0</b>	<b>\$264</b>	<b>\$10,163</b>	<b>\$1,575</b>	<b>\$1,211</b>	<b>\$12,950</b>

\$844,685  
\$22,199  
\$4,846

VAUGHN CITY HALL CHANGE ORDERS  
CHANGE ORDER #93 DUCTWORK AT BRIDGES 205 AND 305  
Level 200

**Delete**

142	Duct accessories, duct sound trap, packaged	(4) Ea.	(1)	(\$41)	(\$1,740)	\$0	\$0	(\$104)	(\$1,885)	(\$292)	(\$479)	(\$2,656)
			0.2	10.14	435.00			26.10	471.24	73.04	119.83	664.11

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<p><u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$22,199</u>      <u>CHANGE ORDER #93 DUCTWORK AT BRIDGES 205 AND 305</u>  <u>\$4,846</u>      <u>Level 200</u></p>												
<b>Delete</b>												
143	Duct accessories, fire damper, curtain type, vertical, 24" x 16", U.L. label, 1-1/2 hour rated	(2) Ea.	(1) 0.727	(\$82) 40.95	(\$72) 36.00	\$0	\$0	(\$4) 2.16	(\$158) 79.11	(\$25) 12.26	(\$20) 9.92	<b>(\$203)</b> 101.28
144	Galvanized Ductwork	(4,400) KG	(814) 0.185	(\$42,789) 9.72	(\$17,600) 4.00	\$0	\$0	(\$1,056) 0.24	(\$61,445) 13.97	(\$9,524) 2.17	(\$4,848) 1.10	<b>(\$75,817)</b> 17.23
145	Duct Insulation	(580) M2	(406) 0.7	(\$20,897) 36.03	(\$9,367) 16.15	\$0	\$0	(\$562) 0.97	(\$30,826) 53.15	(\$4,778) 8.24	(\$2,580) 4.45	<b>(\$38,184)</b> 65.83
146	Galvanized Rectangular Elbow and riser w/ insulation	(1) LS		\$0 3,957.45	(\$3,957) 3,957.45	\$0	\$0	(\$237) 237.45	(\$4,195) 4,194.90	(\$650) 650.21	(\$1,090) 1,090.15	<b>(\$5,935)</b> 5,935.26
147	Fire Damper Accessories	(1) LS		\$0 616.00	(\$616) 616.00	\$0	\$0	(\$37) 36.96	(\$653) 652.96	(\$101) 101.21	(\$170) 169.69	<b>(\$924)</b> 923.86
	Subtotal			(\$63,808)	(\$33,352)	\$0	\$0	(\$2,001)	(\$99,162)	(\$15,370)	(\$9,188)	<b>(\$123,719)</b>
	Taxes			\$0	(\$2,001)	\$0	\$0					
	Subcontractor Markups			(\$9,890)	(\$5,480)	\$0	\$0					
	Prime Contractor Markups from 01 AA			\$0	(\$9,188)	\$0	\$0					
<b>1.00 LS</b>		<b>TOTAL Delete</b>	<b>(1,222)</b>	<b>(\$73,698)</b>	<b>(\$50,021)</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$2,001)</b>	<b>(\$99,162)</b>	<b>(\$15,370)</b>	<b>(\$9,188)</b>	<b>(\$123,719)</b>

<p><u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$22,199</u>      <u>CHANGE ORDER #93 DUCTWORK AT BRIDGES 205 AND 305</u>  <u>\$4,846</u>      <u>Level 200</u></p>												
<b>Add</b>												
148	Duct accessories, duct sound trap	5 Ea.	1 0.267	\$68 13.53	\$3,275 655.00	\$0	\$0	\$197 39.30	\$3,539 707.83	\$0	\$781 156.22	<b>\$4,320</b> 864.05
149	Galvanized Ductwork	4,400 KG	814 0.185	\$42,789 9.72	\$17,600 4.00	\$0	\$0	\$1,056 0.24	\$61,445 13.97	\$9,524 2.17	\$4,848 1.10	<b>\$75,817</b> 17.23
150	Duct Insulation	580 M2	406 0.7	\$20,897 36.03	\$9,367 16.15	\$0	\$0	\$562 0.97	\$30,826 53.15	\$4,778 8.24	\$2,580 4.45	<b>\$38,184</b> 65.83

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<p><u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$22,199</u>      <u>CHANGE ORDER #93 DUCTWORK AT BRIDGES 205 AND 305</u>  <u>\$4,846</u>      <u>Level 200</u></p>													
<b>Add</b>													
151	Galvanized Rectangular Elbow and riser w/ insulation	1	LS		\$0	\$5,980	\$0	\$0	\$359	\$6,339	\$983	\$1,647	<b>\$8,969</b>
						5,980.00		358.80	6,338.80	982.51	1,647.30	8,968.61	
152	Duct accessories, fire damper, curtain type, vertical, 24" x 16", U.L. label, 1-1/2 hour rated	2	Ea.	1	\$82	\$72	\$0	\$0	\$4	\$158	\$25	\$20	<b>\$203</b>
				0.727	40.95	36.00		2.16	79.11	12.26	9.92	101.28	
153	Fire Damper Accessories	1	LS		\$0	\$715	\$0	\$0	\$43	\$758	\$118	\$197	<b>\$1,073</b>
						715.31		42.92	758.23	117.53	197.04	1,072.80	
	Subtotal				\$63,835	\$37,009	\$0	\$0	\$2,221	\$103,065	\$15,427	\$10,074	<b>\$128,565</b>
	Taxes				\$0	\$2,221	\$0	\$0					
	Subcontractor Markups				\$9,884	\$5,543	\$0	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$10,074	\$0	\$0					
	<b>TOTAL Add</b>	<b>1,223</b>	<b>LS</b>		<b>\$73,719</b>	<b>\$54,846</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,221</b>	<b>\$103,065</b>	<b>\$15,427</b>	<b>\$10,074</b>	<b>\$128,565</b>

<p><u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$22,199</u>      <u>CHANGE ORDER #93 DUCTWORK AT BRIDGES 205 AND 305</u>  <u>\$17,353</u>      <u>Level 300</u></p>													
<b>Delete</b>													
154	Duct accessories, duct sound trap, packaged	(3)	Ea.	(1)	(\$30)	(\$1,305)	\$0	\$0	(\$78)	(\$1,414)	(\$219)	(\$359)	<b>(\$1,992)</b>
				0.2	10.14	435.00		26.10	471.24	73.04	119.83	664.11	
155	Galvanized Ductwork	(3,600)	KG	(666)	(\$35,009)	(\$14,400)	\$0	\$0	(\$864)	(\$50,273)	(\$7,792)	(\$3,967)	<b>(\$62,032)</b>
				0.185	9.72	4.00		0.24	13.97	2.17	1.10	17.23	
156	Duct Insulation	(470)	M2	(329)	(\$16,934)	(\$7,591)	\$0	\$0	(\$455)	(\$24,980)	(\$3,872)	(\$2,091)	<b>(\$30,943)</b>
				0.7	36.03	16.15		0.97	53.15	8.24	4.45	65.83	



**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<p><u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$22,199</u>      <u>CHANGE ORDER #93 DUCTWORK AT BRIDGES 205 AND 305</u>  <u>\$17,353</u>      <u>Level 300</u></p>													
<b>Delete</b>													
157	Galvanized Rectangular Elbow and riser w/ insulation	(1)	LS		\$0	(\$2,350)	\$0	\$0	(\$141)	(\$2,491)	(\$386)	(\$647)	<b>(\$3,524)</b>
						2,350.00		141.00	2,491.00	386.11	647.35	3,524.45	
	Subtotal				(\$51,973)	(\$25,646)	\$0	\$0	(\$1,539)	(\$79,157)	(\$12,269)	(\$7,065)	<b>(\$98,491)</b>
	Taxes				\$0	(\$1,539)	\$0	\$0					
	Subcontractor Markups				(\$8,056)	(\$4,214)	\$0	\$0					
	Prime Contractor Markups from 01 AA				\$0	(\$7,065)	\$0	\$0					
	<b>TOTAL Delete</b>	<b>(996)</b>	<b>LS</b>		<b>(\$60,029)</b>	<b>(\$38,462)</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$1,539)</b>	<b>(\$79,157)</b>	<b>(\$12,269)</b>	<b>(\$7,065)</b>	<b>(\$98,491)</b>
<b>1.00 LS</b>													
<p><u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$22,199</u>      <u>CHANGE ORDER #93 DUCTWORK AT BRIDGES 205 AND 305</u>  <u>\$17,353</u>      <u>Level 300</u></p>													
<b>Add</b>													
158	Duct accessories, duct sound trap	5	Ea.	1	\$68	\$3,275	\$0	\$0	\$197	\$3,539	\$549	\$902	<b>\$4,990</b>
				0.267	13.53	655.00		39.30	707.83	109.71	180.43	997.98	
159	Galvanized Ductwork	3,883	KG	718	\$37,761	\$15,532	\$0	\$0	\$932	\$54,225	\$8,405	\$4,279	<b>\$66,908</b>
				0.185	9.72	4.00		0.24	13.97	2.17	1.10	17.23	
160	Duct Insulation	505	M2	354	\$18,195	\$8,156	\$0	\$0	\$489	\$26,840	\$4,160	\$2,247	<b>\$33,247</b>
				0.7	36.03	16.15		0.97	53.15	8.24	4.45	65.83	
161	Galvanized Rectangular Elbow and riser w/ insulation	1	LS		\$0	\$5,980	\$0	\$0	\$359	\$6,339	\$983	\$1,647	<b>\$8,969</b>
						5,980.00		358.80	6,338.80	982.51	1,647.30	8,968.61	
162	Duct accessories, multi-blade dampers, opposed blade, 20" x 16"	5	Ea.	3	\$161	\$230	\$0	\$0	\$14	\$405	\$63	\$63	<b>\$531</b>
				0.571	32.16	46.00		2.76	80.92	12.54	12.67	106.13	

**Vaughan Civic Centre**

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**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<p><u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$22,199</u>      <u>CHANGE ORDER #93 DUCTWORK AT BRIDGES 205 AND 305</u>  <u>\$17,353</u>      <u>Level 300</u></p>												
<b>Add</b>												
163 VAV Boxes	2	Ea.		\$0	\$800	\$0	\$0	\$48	\$848	\$131	\$220	<b>\$1,200</b>
					400.00			24.00	424.00	65.72	110.19	599.91
Subtotal				\$56,184	\$33,973	\$0	\$0	\$2,038	\$92,195	\$14,290	\$9,358	\$115,844
Taxes				\$0	\$2,038	\$0	\$0					
Subcontractor Markups				\$8,709	\$5,582	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$9,358	\$0	\$0					
<b>TOTAL Add</b>			<b>1,076</b>	<b>\$64,893</b>	<b>\$50,951</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,038</b>	<b>\$92,195</b>	<b>\$14,290</b>	<b>\$9,358</b>	<b>\$115,844</b>
<b>1.00 LS</b>												
<p><u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$669</u>      <u>CHANGE ORDER #94 CLEANOUT CLARIFICATIONS</u></p>												
<b>Delete</b>												
164 NB CO cover	(31)	Ea.	(9)	(\$403)	(\$620)	\$0	\$0	(\$37)	(\$1,060)	(\$164)	(\$171)	<b>(\$1,396)</b>
			0.3	13.01	20.00			1.20	34.21	5.30	5.51	45.02
165 NB FD cover	(17)	Ea.	(5)	(\$221)	(\$289)	\$0	\$0	(\$17)	(\$527)	(\$82)	(\$80)	<b>(\$689)</b>
			0.3	13.01	17.00			1.02	31.03	4.81	4.68	40.52
Subtotal				(\$624)	(\$909)	\$0	\$0	(\$55)	(\$1,588)	(\$246)	(\$250)	<b>(\$2,084)</b>
Taxes				\$0	(\$55)	\$0	\$0					
Subcontractor Markups				(\$97)	(\$149)	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	(\$250)	\$0	\$0					
<b>TOTAL Delete</b>			<b>(14)</b>	<b>(\$721)</b>	<b>(\$1,363)</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$55)</b>	<b>(\$1,588)</b>	<b>(\$246)</b>	<b>(\$250)</b>	<b>(\$2,084)</b>
<p><u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$669</u>      <u>CHANGE ORDER #94 CLEANOUT CLARIFICATIONS</u></p>												
<b>Add</b>												
166 Stainless steel CO cover	31	Ea.	9	\$403	\$930	\$0	\$0	\$56	\$1,389	\$215	\$256	<b>\$1,861</b>
			0.3	13.01	30.00			1.80	44.81	6.95	8.26	60.02

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$844,685</u> <u>\$844,685</u> <u>\$669</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #94 CLEANOUT CLARIFICATIONS</u>											
<b>Add</b>												
167	17	Ea.	5	\$221	\$425	\$0	\$0	\$26	\$672	\$104	\$117	<b>\$893</b>
			0.3	13.01	25.00			1.50	39.51	6.12	6.89	52.52
Subtotal				\$624	\$1,355	\$0	\$0	\$81	\$2,061	\$319	\$373	\$2,753
Taxes				\$0	\$81	\$0	\$0					
Subcontractor Markups				\$97	\$223	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$373	\$0	\$0					
<b>TOTAL Add</b>			<b>14</b>	<b>\$721</b>	<b>\$2,032</b>	<b>\$0</b>	<b>\$0</b>	<b>\$81</b>	<b>\$2,061</b>	<b>\$319</b>	<b>\$373</b>	<b>\$2,753</b>
<u>\$844,685</u> <u>\$844,685</u> <u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<b><u>CHANGE ORDER #95 PLUMBING AND DRAINAGE CLARIFICATIONS</u></b>												
168	40	L.F.	8	\$379	\$584	\$120	\$0	\$35	\$1,119	\$173	\$161	<b>\$1,453</b>
			0.2	9.48	14.60	3.01		0.88	27.97	4.34	4.02	36.33
169	1	Ea.	3	\$120	\$78	\$0	\$0	\$5	\$202	\$31	\$21	<b>\$255</b>
			2.667	119.92	77.72			4.66	202.30	31.36	21.41	255.07
170	2	Ea.	5	\$213	\$66	\$0	\$0	\$4	\$284	\$44	\$18	<b>\$346</b>
			2.462	106.75	33.07			1.98	141.80	21.98	9.11	172.89
171	1	Ea.	2	\$97	\$186	\$0	\$0	\$11	\$294	\$46	\$51	<b>\$391</b>
			2	96.79	186.00			11.16	293.95	45.56	51.24	390.75
172	2	Ea.	4	\$194	\$290	\$0	\$0	\$17	\$501	\$78	\$80	<b>\$659</b>
			2	96.79	145.00			8.70	250.49	38.83	39.94	329.26
173	1	Ea.	3	\$135	\$53	\$0	\$0	\$3	\$191	\$30	\$14	<b>\$235</b>
			3	134.89	52.50			3.15	190.54	29.53	14.46	234.54
174	14	Ea.	22	\$971	\$420	\$0	\$0	\$25	\$1,416	\$220	\$116	<b>\$1,752</b>
			1.6	69.37	30.00			1.80	101.17	15.68	8.26	125.12

**Vaughan Civic Centre**

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$844,685</u>												
<u>\$844,685</u>												
<u>\$844,685</u>												
<b><u>CHANGE ORDER #95 PLUMBING AND DRAINAGE CLARIFICATIONS</u></b>												
175 Misc Material	1	LS	2	\$96	\$50	\$0	\$0	\$3	\$149	\$23	\$14	\$186
			2	96.35	50.00			3.00	149.35	23.15	13.77	186.27
176 F Drain, floor	2	Ea.	2	\$99	\$210	\$0	\$0	\$13	\$322	\$50	\$58	\$429
			1.143	49.56	105.00			6.30	160.86	24.93	28.92	214.72
177 Drain, floor	(5)	Ea.	(6)	(\$248)	(\$480)	\$0	\$0	(\$29)	(\$757)	(\$117)	(\$132)	(\$1,006)
			1.143	49.56	96.00			5.76	151.32	23.45	26.45	201.22
Subtotal				\$2,057	\$1,456	\$120	\$0	\$87	\$3,721	\$577	\$401	\$4,699
Taxes				\$0	\$87	\$0	\$0					
Subcontractor Markups				\$319	\$239	\$19	\$0					
Prime Contractor Markups from 01 AA				\$0	\$401	\$0	\$0					
<b>TOTAL CHANGE ORDER #95 PLUMBING AND DRAINAGE CLARIFICATIONS</b>	<b>46</b>			<b>\$2,376</b>	<b>\$2,184</b>	<b>\$139</b>	<b>\$0</b>	<b>\$87</b>	<b>\$3,721</b>	<b>\$577</b>	<b>\$401</b>	<b>\$4,699</b>
<b>1.00 LS</b>												

<u>\$844,685</u>												
<u>\$844,685</u>												
<u>\$844,685</u>												
<b><u>CHANGE ORDER #98 ROOF DRAIN TYPE CLARIFICATIONS</u></b>												
178 Roof Drain	1	LS		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
					0.10			0.01	0.11		0.02	0.13
Taxes				\$0	\$0	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$0	\$0	\$0					
<b>TOTAL CHANGE ORDER #98 ROOF DRAIN TYPE CLARIFICATIONS</b>				<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>1.00 LS</b>												

Memo: not enough information to evaluate change order. Need to have more detail of both roof drain.

<u>\$844,685</u>												
<u>\$844,685</u>												
<u>\$844,685</u>												
<b><u>CHANGE ORDER #100 FCU TAGGING</u></b>												
179 Fan Coil	1	LS		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
					0.10			0.01	0.11		0.02	0.13

***Vaughan Civic Centre***

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$844,685</u>												
<u>\$844,685</u>												
<u>\$844,685</u>												
<b>CHANGE ORDER #100 FCU TAGGING</b>												
Taxes				\$0	\$0	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$0	\$0	\$0					
<b>TOTAL CHANGE ORDER #100 FCU TAGGING</b>				<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>1.00 LS</b>												
Memo: not enough information to evaluate change order. Need to have size for fan coil units.												

<u>\$844,685</u>												
<u>\$844,685</u>												
<u>\$9,291</u>												
<b>Delete</b>												
<b>180 Galvanized Ductwork</b>	<b>(26)</b>	<b>KG</b>	<b>(5)</b>	<b>(\$253)</b>	<b>(\$104)</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$6)</b>	<b>(\$363)</b>	<b>(\$56)</b>	<b>(\$29)</b>	<b>(\$448)</b>
			0.185	9.72	4.00			0.24	13.97	2.17	1.10	17.23
<b>181 Galvanized Rectangular Elbow and riser w/ insulation</b>	<b>(1)</b>	<b>LS</b>		<b>\$0</b>	<b>(\$469)</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$28)</b>	<b>(\$497)</b>	<b>(\$77)</b>	<b>(\$129)</b>	<b>(\$703)</b>
					469.00			28.14	497.14	77.06	129.19	703.39
Subtotal				(\$253)	(\$573)	\$0	\$0	(\$34)	(\$860)	(\$133)	(\$158)	(\$1,151)
Taxes				\$0	(\$34)	\$0	\$0					
Subcontractor Markups				(\$39)	(\$94)	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	(\$158)	\$0	\$0					
<b>TOTAL Delete</b>			<b>(5)</b>	<b>(\$292)</b>	<b>(\$859)</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$34)</b>	<b>(\$860)</b>	<b>(\$133)</b>	<b>(\$158)</b>	<b>(\$1,151)</b>

<u>\$844,685</u>												
<u>\$844,685</u>												
<u>\$9,291</u>												
<b>Add</b>												
<b>182 Galvanized Ductwork</b>	<b>74</b>	<b>KG</b>	<b>14</b>	<b>\$720</b>	<b>\$296</b>	<b>\$0</b>	<b>\$0</b>	<b>\$18</b>	<b>\$1,033</b>	<b>\$160</b>	<b>\$82</b>	<b>\$1,275</b>
			0.185	9.72	4.00			0.24	13.97	2.17	1.10	17.23
<b>183 Duct accessories, fire/smoke combination damper, louver type, 20" x 12", U.L. label</b>	<b>1</b>	<b>Ea.</b>		<b>\$25</b>	<b>\$140</b>	<b>\$0</b>	<b>\$0</b>	<b>\$8</b>	<b>\$173</b>	<b>\$27</b>	<b>\$39</b>	<b>\$239</b>
			0.444	25.01	140.00			8.40	173.41	26.88	38.56	238.85
<b>184 Duct accessories, fire/smoke combination damper, louver type, 24" x 12", U.L. label</b>	<b>4</b>	<b>Ea.</b>	<b>2</b>	<b>\$139</b>	<b>\$580</b>	<b>\$0</b>	<b>\$0</b>	<b>\$35</b>	<b>\$753</b>	<b>\$117</b>	<b>\$160</b>	<b>\$1,030</b>
			0.615	34.64	145.00			8.70	188.34	29.19	39.94	257.47

**Vaughan Civic Centre**

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$844,685</u> <u>\$844,685</u> <u>\$9,291</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #104 DUCTWORK AT ROOMS 193, 293, 933, AND</u>												
<b>Add</b>													
185	Duct accessories, fire/smoke combination damper, louver type, 24" x 16", U.L. label	1	Ea.	1	\$41	\$171	\$0	\$0	\$10	\$222	\$34	\$47	<b>\$304</b>
				0.727	40.94	171.00		10.26	222.20	34.44	47.10	303.75	
186	Duct accessories, fire/smoke combination damper, louver type, 10" x 10", U.L. label	1	Ea.		\$21	\$130	\$0	\$0	\$8	\$159	\$25	\$36	<b>\$220</b>
				0.381	21.46	130.00		7.80	159.26	24.68	35.81	219.76	
187	Duct accessories, duct access door, insulated, 24" x 24"	7	Ea.	7	\$394	\$284	\$0	\$0	\$17	\$695	\$108	\$78	<b>\$881</b>
				1	56.32	40.50		2.43	99.25	15.38	11.16	125.79	
188	Duct accessories, duct access door, wall	7	Ea.	7	\$394	\$385	\$0	\$0	\$23	\$802	\$124	\$106	<b>\$1,033</b>
				1	56.32	55.00		3.30	114.62	17.77	15.15	147.54	
189	Fire Damper Accessories	1	LS		\$350	\$960	\$0	\$0	\$58	\$1,368	\$212	\$264	<b>\$1,844</b>
					350.00	960.00		57.60	1,367.60	211.98	264.45	1,844.03	
190	Galvanized Rectangular Elbow and riser w/ insulation	1	LS		\$600	\$1,950	\$0	\$0	\$117	\$2,667	\$413	\$537	<b>\$3,618</b>
					600.00	1,950.00		117.00	2,667.00	413.38	537.16	3,617.55	
	Subtotal				\$2,684	\$4,896	\$0	\$0	\$294	\$7,873	\$1,220	\$1,349	<b>\$10,442</b>
	Taxes				\$0	\$294	\$0	\$0					
	Subcontractor Markups				\$416	\$804	\$0	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$1,349	\$0	\$0					
<b>TOTAL Add</b>		<b>32</b>			<b>\$3,100</b>	<b>\$7,342</b>	<b>\$0</b>	<b>\$0</b>	<b>\$294</b>	<b>\$7,873</b>	<b>\$1,220</b>	<b>\$1,349</b>	<b>\$10,442</b>

\$844,685  
\$844,685  
\$844,685

VAUGHN CITY HALL CHANGE ORDERS  
VAUGHN CITY HALL CHANGE ORDERS  
VAUGHN CITY HALL CHANGE ORDERS

**CHANGE ORDER #124 FIRE HOSE CABINET ENCLOSURES**

191	Fire Hose Cabinet, National Fire Equipment, CV-200	(1)	Ea.	(3)	(\$134)	(\$420)	\$0	\$0	(\$25)	(\$579)	(\$122)	(\$121)	<b>(\$822)</b>
				3.2	133.94	420.00		25.20	579.14	121.62	121.21	821.97	

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$844,685</u>												
<u>\$844,685</u>												
<u>\$844,685</u>												
<b><u>CHANGE ORDER #124 FIRE HOSE CABINET ENCLOSURES</u></b>												
192 Fire Hose Cabinet, National Fire Equipment, CHV-6634	1	Ea.	3	\$134	\$895	\$0	\$0	\$54	\$1,083	\$227	\$258	\$1,568
			3.2	133.94	895.00			53.70	1,082.64	227.35	258.28	1,568.28
Subtotal				\$0	\$475	\$0	\$0	\$29	\$504	\$106	\$137	\$746
Taxes				\$0	\$29	\$0	\$0					
Subcontractor Markups				\$0	\$106	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$137	\$0	\$0					
<b>TOTAL CHANGE ORDER #124 FIRE HOSE CABINET ENCLOSURES</b>				<b>\$0</b>	<b>\$746</b>	<b>\$0</b>	<b>\$0</b>	<b>\$29</b>	<b>\$504</b>	<b>\$106</b>	<b>\$137</b>	<b>\$746</b>
<b>1.00 LS</b>			Memo: Evaluation based on quantity of one. The exact amount of fire hose cabinets was not available.									
<u>\$844,685</u>												
<u>\$844,685</u>												
<u>\$23,068</u>												
<b><u>M305C South</u></b>												
193 Galvanized Ductwork	184	KG	34	\$1,789	\$736	\$0	\$0	\$44	\$2,570	\$398	\$203	\$3,171
			0.185	9.72	4.00			0.24	13.97	2.17	1.10	17.23
194 Galvanized Rectangular Elbow and riser w/ insulation	1	LS		\$0	\$1,409	\$0	\$0	\$85	\$1,493	\$231	\$388	\$2,113
					1,408.88			84.53	1,493.41	231.48	388.10	2,112.99
195 Galvanized Ductwork	(105)	KG	(19)	(\$1,021)	(\$420)	\$0	\$0	(\$25)	(\$1,466)	(\$227)	(\$116)	(\$1,809)
			0.185	9.72	4.00			0.24	13.97	2.17	1.10	17.23
196 Galvanized Rectangular Elbow and riser w/ insulation	(1)	LS		\$0	(\$325)	\$0	\$0	(\$20)	(\$345)	(\$53)	(\$90)	(\$487)
					325.00			19.50	344.50	53.40	89.53	487.43

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$23,068</u>	<u>CHANGE ORDER #125 PRINT ROOM EXHAUST FAN LOCATIONS</u>												
<b><u>M305C South</u></b>													
197 Labor	1	LS		\$2,000	\$0	\$0	\$0	\$0	\$2,000	\$310	\$0	<b>\$2,310</b>	
				2,000.00					2,000.00	310.00		2,310.00	
Subtotal				\$2,768	\$1,400	\$0	\$0	\$84	\$4,252	\$659	\$386	<b>\$5,297</b>	
Taxes				\$0	\$84	\$0	\$0						
Subcontractor Markups				\$429	\$230	\$0	\$0						
Prime Contractor Markups from 01 AA				\$0	\$386	\$0	\$0						
	<b>1.00</b>	<b>LS</b>	<b>TOTAL M305C South</b>	<b>15</b>	<b>\$3,197</b>	<b>\$2,099</b>	<b>\$0</b>	<b>\$0</b>	<b>\$84</b>	<b>\$4,252</b>	<b>\$659</b>	<b>\$386</b>	<b>\$5,297</b>
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$23,068</u>	<u>CHANGE ORDER #125 PRINT ROOM EXHAUST FAN LOCATIONS</u>												
<b><u>M307A East</u></b>													
198 Galvanized Ductwork	105	KG	19	\$1,021	\$420	\$0	\$0	\$25	\$1,466	\$227	\$116	<b>\$1,809</b>	
			0.185	9.72	4.00			0.24	13.97	2.17	1.10	17.23	
199 Galvanized Rectangular Elbow and riser w/ insulation	1	LS		\$0	\$1,409	\$0	\$0	\$85	\$1,493	\$231	\$388	<b>\$2,113</b>	
					1,408.88			84.53	1,493.41	231.48	388.10	2,112.99	
200 Galvanized Ductwork	(53)	KG	(10)	(\$515)	(\$212)	\$0	\$0	(\$13)	(\$740)	(\$115)	(\$58)	<b>(\$913)</b>	
			0.185	9.72	4.00			0.24	13.97	2.17	1.10	17.23	
201 Galvanized Rectangular Elbow and riser w/ insulation	(1)	LS		\$0	(\$325)	\$0	\$0	(\$20)	(\$345)	(\$53)	(\$90)	<b>(\$487)</b>	
					325.00			19.50	344.50	53.40	89.53	487.43	
202 Labor	1	LS		\$3,100	\$0	\$0	\$0	\$0	\$3,100	\$481	\$0	<b>\$3,581</b>	
				3,100.00					3,100.00	480.50		3,580.50	
Subtotal				\$3,606	\$1,292	\$0	\$0	\$78	\$4,975	\$771	\$356	<b>\$6,102</b>	
Taxes				\$0	\$78	\$0	\$0						
Subcontractor Markups				\$559	\$212	\$0	\$0						
Prime Contractor Markups from 01 AA				\$0	\$356	\$0	\$0						
	<b>1.00</b>	<b>LS</b>	<b>TOTAL M307A East</b>	<b>10</b>	<b>\$4,165</b>	<b>\$1,938</b>	<b>\$0</b>	<b>\$0</b>	<b>\$78</b>	<b>\$4,975</b>	<b>\$771</b>	<b>\$356</b>	<b>\$6,102</b>



**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<p><u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$23,068</u>      <u>CHANGE ORDER #125 PRINT ROOM EXHAUST FAN LOCATIONS</u></p> <p><b><u>M307A North</u></b></p>												
203 Galvanized Ductwork	145	KG	27	\$1,410	\$580	\$0	\$0	\$35	\$2,025	\$314	\$160	\$2,499
			0.185	9.72	4.00			0.24	13.97	2.17	1.10	17.23
204 Galvanized Rectangular Elbow and riser w/ insulation	1	LS		\$0	\$1,409	\$0	\$0	\$85	\$1,493	\$231	\$388	\$2,113
					1,408.88			84.53	1,493.41	231.48	388.10	2,112.99
205 Galvanized Ductwork	(79)	KG	(15)	(\$768)	(\$316)	\$0	\$0	(\$19)	(\$1,103)	(\$171)	(\$87)	(\$1,361)
			0.185	9.72	4.00			0.24	13.97	2.17	1.10	17.23
206 Galvanized Rectangular Elbow and riser w/ insulation	(1)	LS		\$0	(\$370)	\$0	\$0	(\$22)	(\$392)	(\$61)	(\$102)	(\$555)
					370.00			22.20	392.20	60.79	101.92	554.91
207 Labor	1	LS		\$2,900	\$0	\$0	\$0	\$0	\$2,900	\$450	\$0	\$3,350
				2,900.00					2,900.00	449.50		3,349.50
Subtotal				\$3,542	\$1,303	\$0	\$0	\$78	\$4,923	\$763	\$359	\$6,045
Taxes				\$0	\$78	\$0	\$0					
Subcontractor Markups				\$549	\$214	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$359	\$0	\$0					
<b>1.00 LS</b>	<b>TOTAL M307A North</b>	<b>12</b>		<b>\$4,091</b>	<b>\$1,954</b>	<b>\$0</b>	<b>\$0</b>	<b>\$78</b>	<b>\$4,923</b>	<b>\$763</b>	<b>\$359</b>	<b>\$6,045</b>

<p><u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$23,068</u>      <u>CHANGE ORDER #125 PRINT ROOM EXHAUST FAN LOCATIONS</u></p> <p><b><u>M309A North</u></b></p>												
208 Galvanized Ductwork	120	KG	22	\$1,167	\$480	\$0	\$0	\$29	\$1,676	\$260	\$132	\$2,068
			0.185	9.72	4.00			0.24	13.97	2.17	1.10	17.23
209 Galvanized Rectangular Elbow and riser w/ insulation	1	LS		\$0	\$1,339	\$0	\$0	\$80	\$1,419	\$220	\$369	\$2,008
					1,338.88			80.33	1,419.21	219.98	368.82	2,008.01
210 Galvanized Ductwork	(79)	KG	(15)	(\$768)	(\$316)	\$0	\$0	(\$19)	(\$1,103)	(\$171)	(\$87)	(\$1,361)
			0.185	9.72	4.00			0.24	13.97	2.17	1.10	17.23

**Vaughan Civic Centre**

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$23,068</u>	<u>CHANGE ORDER #125 PRINT ROOM EXHAUST FAN LOCATIONS</u>												
<b><u>M309A North</u></b>													
211 Galvanized Rectangular Elbow and riser w/ insulation	(1)	LS		\$0	(\$370)	\$0	\$0	(\$22)	(\$392)	(\$61)	(\$102)	(\$555)	
					370.00			22.20	392.20	60.79	101.92	554.91	
212 Labor	1	LS		\$3,000	\$0	\$0	\$0	\$0	\$3,000	\$465	\$0	\$3,465	
				3,000.00					3,000.00	465.00		3,465.00	
Subtotal				\$3,399	\$1,133	\$0	\$0	\$68	\$4,600	\$713	\$312	\$5,625	
Taxes				\$0	\$68	\$0	\$0						
Subcontractor Markups				\$527	\$186	\$0	\$0						
Prime Contractor Markups from 01 AA				\$0	\$312	\$0	\$0						
<b>1.00 LS</b>			<b>TOTAL M309A North</b>	<b>8</b>	<b>\$3,926</b>	<b>\$1,699</b>	<b>\$0</b>	<b>\$0</b>	<b>\$68</b>	<b>\$4,600</b>	<b>\$713</b>	<b>\$312</b>	<b>\$5,625</b>
<hr/>													
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$46,519</u>	<u>CHANGE ORDER #126 MECHANICAL ROOM REVISIONS AT MULTI</u>												
<u>\$34,667</u>	<u>Sheet Metal</u>												
<b><u>Delete</u></b>													
213 Galvanized Ductwork	(463)	KG	(86)	(\$4,503)	(\$1,852)	\$0	\$0	(\$111)	(\$6,466)	(\$1,002)	(\$510)	(\$7,978)	
			0.185	9.72	4.00			0.24	13.97	2.17	1.10	17.23	
214 Duct Insulation	(60)	M2	(42)	(\$2,162)	(\$969)	\$0	\$0	(\$58)	(\$3,189)	(\$494)	(\$267)	(\$3,950)	
			0.7	36.03	16.15			0.97	53.15	8.24	4.45	65.83	
215 Galvanized Rectangular Elbow and riser w/ insulation	(1)	LS		\$0	(\$2,680)	\$0	\$0	(\$161)	(\$2,841)	(\$440)	(\$738)	(\$4,019)	
					2,680.00			160.80	2,840.80	440.32	738.25	4,019.38	
Subtotal				(\$6,664)	(\$5,501)	\$0	\$0	(\$330)	(\$12,495)	(\$1,937)	(\$1,515)	(\$15,947)	
Taxes				\$0	(\$330)	\$0	\$0						
Subcontractor Markups				(\$1,033)	(\$904)	\$0	\$0						
Prime Contractor Markups from 01 AA				\$0	(\$1,515)	\$0	\$0						
<b>TOTAL Delete</b>			<b>(128)</b>	<b>(\$7,697)</b>	<b>(\$8,250)</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$330)</b>	<b>(\$12,495)</b>	<b>(\$1,937)</b>	<b>(\$1,515)</b>	<b>(\$15,947)</b>	

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<p><u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$46,519</u>      <u>CHANGE ORDER #126 MECHANICAL ROOM REVISIONS AT MULTI</u>  <u>\$34,667</u>      <u>Sheet Metal</u></p>													
<b>Add</b>													
216	Galvanized Ductwork	500	KG	93	\$4,862	\$2,000	\$0	\$0	\$120	\$6,982	\$1,082	\$551	<b>\$8,616</b>
				0.185	9.72	4.00		0.24	13.97	2.17	1.10	17.23	
217	Duct Insulation	65	M2	46	\$2,342	\$1,050	\$0	\$0	\$63	\$3,455	\$535	\$289	<b>\$4,279</b>
				0.7	36.03	16.15		0.97	53.15	8.24	4.45	65.83	
218	Galvanized Rectangular Elbow and riser w/ insulation	1	LS		\$0	\$11,352	\$0	\$0	\$681	\$12,033	\$1,865	\$3,127	<b>\$17,025</b>
						11,352.00		681.12	12,033.12	1,865.13	3,127.11	17,025.36	
219	Duct accessories, silencer	9	Ea.	2	\$122	\$5,895	\$0	\$0	\$354	\$6,371	\$987	\$1,624	<b>\$8,982</b>
				0.267	13.53	655.00		39.30	707.83	109.71	180.43	997.98	
220	Transition	1	LS		\$0	\$2,000	\$0	\$0	\$120	\$2,120	\$329	\$551	<b>\$3,000</b>
						2,000.00		120.00	2,120.00	328.60	550.93	2,999.53	
Memo: Acoustic plenum's size is missing. Fitting length is													
221	Diffuser, aluminum, ceiling, also for sidewall, 10" wide, includes opposed blade damper	10	L.F.	4	\$225	\$850	\$0	\$0	\$51	\$1,126	\$175	\$234	<b>\$1,535</b>
				0.4	22.53	85.00		5.10	112.63	17.46	23.41	153.50	
222	Misc Material	1	LS		\$0	\$935	\$0	\$0	\$56	\$991	\$154	\$258	<b>\$1,403</b>
						935.22		56.11	991.33	153.66	257.62	1,402.61	
223	Labor	1	LS		\$5,000	\$0	\$0	\$0	\$5,000	\$775	\$0	\$0	<b>\$5,775</b>
					5,000.00				5,000.00	775.00		5,775.00	
	Subtotal				\$12,551	\$24,082	\$0	\$0	\$1,445	\$38,078	\$5,902	\$6,634	<b>\$50,614</b>
	Taxes				\$0	\$1,445	\$0	\$0					
	Subcontractor Markups				\$1,945	\$3,957	\$0	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$6,634	\$0	\$0					
<b>TOTAL Add</b>		<b>144</b>			<b>\$14,497</b>	<b>\$36,117</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,445</b>	<b>\$38,078</b>	<b>\$5,902</b>	<b>\$6,634</b>	<b>\$50,614</b>

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$844,685</u> <u>\$844,685</u> <u>\$46,519</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #126 MECHANICAL ROOM REVISIONS AT MULTI</u>												
<b><u>Heating</u></b>													
224	Pipe, steel, black, threaded, 3" diameter, schedule 40, Spec. A-53, includes coupling and clevis hanger assembly sized for covering, 10' OC	90	L.F.	33	\$1,452	\$1,395	\$0	\$0	\$84	\$2,930	\$0	\$333	<b>\$3,263</b>
				0.372	16.13	15.50		0.93	32.56		3.70	36.26	
225	Elbow, 90 Deg., steel, cast iron, black, straight, threaded, standard weight, 3"	6	Ea.	10	\$416	\$327	\$0	\$0	\$20	\$763	\$0	\$78	<b>\$841</b>
				1.6	69.37	54.50		3.27	127.14		13.00	140.14	
226	Coupling, steel, cast iron, black, straight, threaded, extra heavy weight, 3"	18	Ea.	21	\$892	\$369	\$0	\$0	\$22	\$1,283	\$0	\$88	<b>\$1,371</b>
				1.143	49.56	20.50		1.23	71.29		4.89	76.18	
227	Unistrut	90	LF		\$0	\$450	\$0	\$0	\$27	\$477	\$0	\$107	<b>\$584</b>
						5.00		0.30	5.30		1.19	6.49	
228	Misc Material	1	LS		\$0	\$330	\$0	\$0	\$20	\$350	\$0	\$79	<b>\$429</b>
						330.00		19.80	349.80		78.70	428.51	
229	Insulation, pipe covering (price copper tube one size less than I.P.S.), fiberglass with all service jacket, 1-1/2" wall, 4" iron pipe size	90	L.F.	10	\$528	\$259	\$0	\$0	\$16	\$803	\$0	\$62	<b>\$865</b>
				0.114	5.87	2.88		0.17	8.92		0.69	9.61	
230	Labor	1	LS		\$4,500	\$0	\$0	\$0	\$0	\$4,500	\$0	\$0	<b>\$4,500</b>
					4,500.00				4,500.00			4,500.00	
	Subtotal				\$7,788	\$3,130	\$0	\$0	\$188	\$11,106	\$0	\$747	<b>\$11,853</b>
	Taxes				\$0	\$188	\$0	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$747	\$0	\$0					
<b>TOTAL Heating</b>		<b>74</b>			<b>\$7,788</b>	<b>\$4,065</b>	<b>\$0</b>	<b>\$0</b>	<b>\$188</b>	<b>\$11,106</b>	<b>\$0</b>	<b>\$747</b>	<b>\$11,853</b>

\$844,685  
\$31,593  
\$16,993

VAUGHN CITY HALL CHANGE ORDERS  
CHANGE ORDER #128 MECHANICAL ROOM 495 DISCHARGE PLENUM  
Sheet Metal

**Delete**

231	Galvanized Ductwork	(1,333)	KG	(247)	(\$12,963)	(\$5,332)	\$0	\$0	(\$320)	(\$18,615)	(\$2,885)	(\$1,469)	<b>(\$22,969)</b>
				0.185	9.72	4.00		0.24	13.97	2.17	1.10	17.23	

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<p><u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$31,593</u>      <u>CHANGE ORDER #128 MECHANICAL ROOM 495 DISCHARGE PLENUM</u>  <u>\$16,993</u>      <u>Sheet Metal</u></p>													
<b>Delete</b>													
232	Duct Insulation	(173)	M2	(121)	(\$6,233)	(\$2,794)	\$0	\$0	(\$168)	(\$9,195)	(\$1,425)	(\$770)	<b>(\$11,389)</b>
				0.7	36.03	16.15		0.97	53.15	8.24	4.45	65.83	
233	Galvanized Rectangular Elbow and riser w/ insulation	(1)	LS		\$0	(\$450)	\$0	\$0	(\$27)	(\$477)	(\$74)	(\$124)	<b>(\$675)</b>
						450.00		27.00	477.00	73.94	123.96	674.89	
234	Duct accessories, silencer	(1)	Ea.		(\$14)	(\$655)	\$0	\$0	(\$39)	(\$708)	\$0	(\$156)	<b>(\$864)</b>
				0.267	13.53	655.00		39.30	707.83		156.22	864.05	
	Subtotal				(\$19,210)	(\$9,231)	\$0	\$0	(\$554)	(\$28,994)	(\$4,384)	(\$2,519)	<b>(\$35,897)</b>
	Taxes				\$0	(\$554)	\$0	\$0					
	Subcontractor Markups				(\$2,975)	(\$1,409)	\$0	\$0					
	Prime Contractor Markups from 01 AA				\$0	(\$2,519)	\$0	\$0					
<b>TOTAL Delete</b>		<b>(368)</b>			<b>(\$22,185)</b>	<b>(\$13,712)</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$554)</b>	<b>(\$28,994)</b>	<b>(\$4,384)</b>	<b>(\$2,519)</b>	<b>(\$35,897)</b>

<p><u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$31,593</u>      <u>CHANGE ORDER #128 MECHANICAL ROOM 495 DISCHARGE PLENUM</u>  <u>\$16,993</u>      <u>Sheet Metal</u></p>													
<b>Add</b>													
235	Galvanized Ductwork	885	KG	164	\$8,606	\$3,540	\$0	\$0	\$212	\$12,359	\$1,916	\$975	<b>\$15,249</b>
				0.185	9.72	4.00		0.24	13.97	2.17	1.10	17.23	
236	Duct Insulation	106	M2	74	\$3,819	\$1,712	\$0	\$0	\$103	\$5,634	\$873	\$472	<b>\$6,979</b>
				0.7	36.03	16.15		0.97	53.15	8.24	4.45	65.83	
237	Galvanized Rectangular Elbow and riser w/ insulation	1	LS		\$0	\$1,960	\$0	\$0	\$118	\$2,078	\$322	\$540	<b>\$2,940</b>
						1,960.00		117.60	2,077.60	322.03	539.92	2,939.54	
238	Duct accessories, silencer	2	Ea.	1	\$27	\$1,310	\$0	\$0	\$79	\$1,416	\$219	\$361	<b>\$1,996</b>
				0.267	13.54	655.00		39.30	707.84	109.71	180.43	997.98	
239	Transition	1	LS		\$0	\$5,220	\$0	\$0	\$313	\$5,533	\$858	\$1,438	<b>\$7,829</b>
						5,220.00		313.20	5,533.20	857.65	1,437.94	7,828.79	

Memo: Acoustic plenum's size is missing. Fitting length is

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<p><u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$31,593</u>      <u>CHANGE ORDER #128 MECHANICAL ROOM 495 DISCHARGE PLENUM</u>  <u>\$16,993</u>      <u>Sheet Metal</u></p>												
<b>Add</b>												
240 Acoustic Plenum	1	LS		\$0	\$11,934	\$0	\$0	\$716	\$12,650	\$1,961	\$3,287	<b>\$17,898</b>
					11,934.00			716.04	12,650.04	1,960.76	3,287.43	17,898.22
Subtotal				\$12,453	\$25,676	\$0	\$0	\$1,541	\$39,669	\$6,149	\$7,073	<b>\$52,891</b>
Taxes				\$0	\$1,541	\$0	\$0					
Subcontractor Markups				\$1,930	\$4,219	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$7,073	\$0	\$0					
<b>TOTAL Add</b>			<b>238</b>	<b>\$14,383</b>	<b>\$38,508</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,541</b>	<b>\$39,669</b>	<b>\$6,149</b>	<b>\$7,073</b>	<b>\$52,891</b>

<p><u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$31,593</u>      <u>CHANGE ORDER #128 MECHANICAL ROOM 495 DISCHARGE PLENUM</u></p>												
<b>Heating</b>												
241 Pipe, fittings and valves, elbow, 45 Deg. or 90 Deg., steel, painted, grooved joint, 3" diameter, add 1 coupling (material only) per joint for	8	Ea.	4	\$168	\$220	\$0	\$0	\$13	\$401	\$62	\$61	<b>\$524</b>
			0.485	21.03	27.50			1.65	50.18	7.78	7.58	65.53
242 Pipe, fittings and valves, coupling, steel, painted, rigid style, grooved joint, 3" diameter	16	Ea.	4	\$166	\$253	\$0	\$0	\$15	\$434	\$67	\$70	<b>\$571</b>
			0.239	10.36	15.80			0.95	27.11	4.20	4.35	35.66
243 Pipe, fittings and valves, elbow, 45 Deg. or 90 Deg., steel, painted, grooved joint, 8" diameter, add 1 coupling (material only) per joint for	8	Ea.	9	\$411	\$1,416	\$0	\$0	\$85	\$1,912	\$296	\$390	<b>\$2,599</b>
			1.143	51.39	177.00			10.62	239.01	37.05	48.76	324.82
244 Pipe, fittings and valves, coupling, steel, painted, rigid style, grooved joint, 8" diameter	16	Ea.	9	\$411	\$968	\$0	\$0	\$58	\$1,437	\$223	\$267	<b>\$1,926</b>
			0.571	25.67	60.50			3.63	89.80	13.92	16.67	120.39
245 Pipe, fittings and valves, steel, galvanized, grooved joint, 3" diameter, schedule 80, includes coupling & clevis type hanger 10' O.C.	20	L.F.	7	\$289	\$680	\$0	\$0	\$41	\$1,010	\$156	\$187	<b>\$1,353</b>
			0.333	14.44	34.00			2.04	50.48	7.82	9.37	67.67
246 Pipe support	1	LS		\$0	\$0	\$0	\$3,490	\$0	\$3,490	\$0	\$0	<b>\$3,490</b>
							3,490.00		3,490.00			3,490.00
247 Misc Material	1	LS		\$0	\$0	\$0	\$300	\$0	\$300	\$0	\$0	<b>\$300</b>
							300.00		300.00			300.00

**Vaughan Civic Centre**

**EXPANDED - DETAIL REPORT**

Vaughan, Ontario

U. S. Cost

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL		
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>													
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>													
<u>\$31,593</u>	<u>CHANGE ORDER #128 MECHANICAL ROOM 495 DISCHARGE PLENUM</u>													
<b>Heating</b>														
248 Labor	1	LS		\$2,300	\$0	\$0	\$0	\$0	\$2,300	\$357	\$0	\$2,657		
				2,300.00					2,300.00	356.50		2,656.50		
249 Insulation, pipe covering (price copper tube one size less than I.P.S.), calcium silicate, 3" wall, 8" iron pipe size, excludes cover	20	L.F.	4	\$194	\$332	\$0	\$0	\$20	\$545	\$85	\$91	\$721		
			0.188	9.68	16.60			1.00	27.27	4.23	4.57	36.07		
250 Insulation, pipe covering (price copper tube one size less than I.P.S.), calcium silicate, 3" wall, 3" iron pipe size, excludes cover	20	L.F.	3	\$165	\$179	\$0	\$0	\$11	\$354	\$55	\$49	\$459		
			0.16	8.24	8.95			0.54	17.72	2.75	2.46	22.93		
Subtotal				\$4,103	\$4,048	\$0	\$3,790	\$243	\$12,184	\$1,301	\$1,115	\$14,600		
Taxes				\$0	\$243	\$0	\$0							
Subcontractor Markups				\$636	\$665	\$0	\$0							
Prime Contractor Markups from 01 AA				\$0	\$1,115	\$0	\$0							
<b>TOTAL Heating</b>				<b>40</b>	<b>\$4,739</b>	<b>\$6,071</b>	<b>\$0</b>	<b>\$3,790</b>	<b>\$243</b>	<b>\$12,184</b>	<b>\$1,301</b>	<b>\$1,115</b>	<b>\$14,600</b>	
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>													
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>													
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>													
<b>CHANGE ORDER #130 DELTA ELECTRONIC URINAL FLUSH VALVES</b>														
251 Urinal complete w/ toto electronic flush valve	(23)	EA		\$0	(\$15,180)	\$0	\$0	(\$911)	(\$16,091)	(\$2,494)	(\$4,182)	(\$22,766)		
					660.00			39.60	699.60	108.44	181.81	989.85		
252 Urinal complete w/ delta electronic flush valve	23	EA		\$0	\$17,250	\$0	\$0	\$1,035	\$18,285	\$2,834	\$4,752	\$25,871		
					750.00			45.00	795.00	123.22	206.60	1,124.83		
Subtotal				\$0	\$2,070	\$0	\$0	\$124	\$2,194	\$340	\$570	\$3,105		
Taxes				\$0	\$124	\$0	\$0							
Subcontractor Markups				\$0	\$340	\$0	\$0							
Prime Contractor Markups from 01 AA				\$0	\$570	\$0	\$0							
<b>TOTAL CHANGE ORDER #130 DELTA ELECTRONIC URINAL FLUSH VALVES</b>				<b>1.00</b>	<b>LS</b>	<b>\$0</b>	<b>\$3,105</b>	<b>\$0</b>	<b>\$0</b>	<b>\$124</b>	<b>\$2,194</b>	<b>\$340</b>	<b>\$570</b>	<b>\$3,105</b>

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Vaughan, Ontario

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$844,685</u> <u>\$844,685</u> <u>\$34,119</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #136 LEVEL 500 CHILLER ROOM</u>												
<b>Delete</b>													
253	Pipe, fittings and valves, steel, black, grooved joint, 10" diameter, schedule 40, includes coupling & clevis type hanger 10' O.C.	(105)	L.F.	(81)	(\$3,654)	(\$8,138)	\$0	\$0	(\$488)	(\$12,280)	(\$1,903)	(\$2,242)	<b>(\$16,425)</b>
				0.774	34.80	77.50		4.65	116.95	18.13	21.35	156.43	
254	Pipe, fittings and valves, steel, black, grooved joint, 4" diameter, schedule 40, includes coupling & clevis type hanger 10' O.C.	(63)	L.F.	(22)	(\$972)	(\$1,203)	\$0	\$0	(\$72)	(\$2,248)	(\$348)	(\$331)	<b>(\$2,928)</b>
				0.356	15.44	19.10		1.15	35.68	5.53	5.26	46.47	
255	Pipe, fittings and valves, elbow, 45 Deg. or 90 Deg., steel, painted, grooved joint, 6" diameter, add 1 coupling (material only) per joint for	(4)	Ea.	(4)	(\$173)	(\$424)	\$0	\$0	(\$25)	(\$622)	(\$96)	(\$117)	<b>(\$835)</b>
				0.96	43.16	106.00		6.36	155.53	24.11	29.20	208.83	
256	Pipe, fittings and valves, coupling, steel, painted, rigid style, grooved joint, 6" diameter	(8)	Ea.	(4)	(\$173)	(\$388)	\$0	\$0	(\$23)	(\$584)	(\$91)	(\$107)	<b>(\$781)</b>
				0.48	21.58	48.50		2.91	72.99	11.31	13.36	97.67	
257	Misc Material	(1)	LS		\$0	(\$1,500)	\$0	\$0	(\$90)	(\$1,590)	(\$246)	(\$413)	<b>(\$2,250)</b>
						1,500.00		90.00	1,590.00	246.45	413.20	2,249.65	
258	Pipe, cut one groove, labor only, 10" pipe size, grooved-joint	(11)	Ea.	(5)	(\$201)	\$0	\$0	\$0	(\$201)	(\$31)	\$0	<b>(\$232)</b>	
				0.421	18.25				18.25	2.83		21.08	
259	Pipe, cut one groove, labor only, 4" pipe size, grooved-joint	(6)	Ea.	(1)	(\$53)	\$0	\$0	\$0	(\$53)	(\$8)	\$0	<b>(\$62)</b>	
				0.205	8.89				8.89	1.38		10.27	
	Subtotal				(\$5,226)	(\$11,653)	\$0	\$0	(\$699)	(\$17,578)	(\$2,725)	(\$3,210)	<b>(\$23,513)</b>
	Taxes				\$0	(\$699)	\$0	\$0					
	Subcontractor Markups				(\$810)	(\$1,915)	\$0	\$0					
	Prime Contractor Markups from 01 AA				\$0	(\$3,210)	\$0	\$0					
<b>TOTAL Delete</b>		<b>(117)</b>			<b>(\$6,036)</b>	<b>(\$17,476)</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$699)</b>	<b>(\$17,578)</b>	<b>(\$2,725)</b>	<b>(\$3,210)</b>	<b>(\$23,513)</b>

\$844,685  
\$844,685  
\$34,119

VAUGHN CITY HALL CHANGE ORDERS  
VAUGHN CITY HALL CHANGE ORDERS  
CHANGE ORDER #136 LEVEL 500 CHILLER ROOM

**Add**

260	Pipe, fittings and valves, elbow, 45 Deg. or 90 Deg., steel, painted, grooved joint, 8" diameter, add 1 coupling (material only) per joint for	9	Ea.	10	\$463	\$1,980	\$0	\$0	\$119	\$2,561	\$0	\$472	<b>\$3,034</b>
				1.143	51.39	220.00		13.20	284.59		52.47	337.06	



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Vaughan, Ontario

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$844,685</u> <u>\$844,685</u> <u>\$34,119</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #136 LEVEL 500 CHILLER ROOM</u>												
<b><u>Add</u></b>													
261	Pipe, fittings and valves, coupling, steel, painted, standard, flexible, grooved joint, 8" diameter	18	Ea.	10	\$462	\$1,602	\$0	\$0	\$96	\$2,160	\$0	\$382	<b>\$2,542</b>
				0.571	25.67	89.00		5.34	120.01		21.23	141.24	
262	Pipe, fittings and valves, steel, black, grooved joint, 4" diameter, schedule 40, includes coupling & clevis type hanger 10' O.C.	54	L.F.	19	\$834	\$1,031	\$0	\$0	\$62	\$1,927	\$299	\$284	<b>\$2,510</b>
				0.356	15.44	19.10		1.15	35.68	5.53	5.26	46.47	
263	Pipe, fittings and valves, steel, black, grooved joint, 6" diameter, schedule 40, includes coupling & clevis type hanger 10' O.C.	168	L.F.	96	\$4,313	\$5,628	\$0	\$0	\$338	\$10,279	\$1,593	\$1,550	<b>\$13,422</b>
				0.571	25.67	33.50		2.01	61.18	9.48	9.23	79.90	
264	Pipe, fittings and valves, steel, black, grooved joint, 8" diameter, schedule 40, includes coupling & clevis type hanger 10' O.C.	126	L.F.	82	\$3,677	\$6,489	\$0	\$0	\$389	\$10,555	\$1,636	\$1,788	<b>\$13,979</b>
				0.649	29.18	51.50		3.09	83.77	12.98	14.19	110.94	
265	Pipe, steel, black, threaded, 2" diameter, schedule 40, A-106, grade A/B seamless, includes coupling and clevis hanger assembly sized for covering, 10' OC	273	L.F.	68	\$2,959	\$4,027	\$0	\$0	\$242	\$7,227	\$1,120	\$1,109	<b>\$9,457</b>
				0.25	10.84	14.75		0.89	26.47	4.10	4.06	34.64	
266	Misc Material	1	LS		\$0	\$3,000	\$0	\$0	\$180	\$3,180	\$493	\$826	<b>\$4,499</b>
						3,000.00		180.00	3,180.00	492.90	826.40	4,499.30	
267	Insulation, pipe covering (price copper tube one size less than I.P.S.), fiberglass with all service jacket, 2" wall, 2" iron pipe size	273	L.F.	24	\$1,251	\$906	\$0	\$0	\$54	\$2,211	\$343	\$250	<b>\$2,804</b>
				0.089	4.58	3.32		0.20	8.10	1.26	0.92	10.27	
268	Insulation, pipe covering (price copper tube one size less than I.P.S.), fiberglass with all service jacket, 2" wall, 3" iron pipe size	84	L.F.	8	\$432	\$318	\$0	\$0	\$19	\$770	\$119	\$88	<b>\$977</b>
				0.1	5.15	3.79		0.23	9.16	1.42	1.04	11.63	
269	Insulation, pipe covering (price copper tube one size less than I.P.S.), fiberglass with all service jacket, 2" wall, 6" iron pipe size	168	L.F.	27	\$1,384	\$874	\$0	\$0	\$52	\$2,310	\$358	\$241	<b>\$2,908</b>
				0.16	8.23	5.20		0.31	13.75	2.13	1.43	17.31	

**Vaughan Civic Centre**

Vaughan, Ontario

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$844,685</u> <u>\$844,685</u> <u>\$34,119</u>												
<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>CHANGE ORDER #136 LEVEL 500 CHILLER ROOM</u>												
<b>Add</b>												
270 Crane Rental	1	LS		\$0	\$0	\$0	\$1,500	\$0	\$1,500	\$0	\$0	\$1,500
							1,500.00		1,500.00			1,500.00
Subtotal				\$15,774	\$25,855	\$0	\$1,500	\$1,551	\$44,681	\$5,961	\$6,990	\$57,632
Taxes				\$0	\$1,551	\$0	\$0					
Subcontractor Markups				\$2,302	\$3,660	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$6,990	\$0	\$0					
<b>TOTAL Add</b>			<b>345</b>	<b>\$18,075</b>	<b>\$38,056</b>	<b>\$0</b>	<b>\$1,500</b>	<b>\$1,551</b>	<b>\$44,681</b>	<b>\$5,961</b>	<b>\$6,990</b>	<b>\$57,632</b>
<u>\$844,685</u> <u>\$844,685</u> <u>\$844,685</u>												
<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<b><u>CHANGE ORDER #151 ACOUSTIC TILE CEILINGS (ALTERNATIVE PRICE)</u></b>												
271 Acoustic Tile Ceilings Alternate	1	LS		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
							0.01		0.01			0.01
<b>TOTAL CHANGE ORDER #151 ACOUSTIC TILE CEILINGS (ALTERNATIVE PRICE)</b>				<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
			<b>1.00 LS</b>									
Memo: Not enough information available to evaluate this change order. Quantities of ceiling were not available.												
<u>\$844,685</u> <u>\$844,685</u> <u>\$844,685</u>												
<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<b><u>CHANGE ORDER #221 SUPPLY AND INSTALL CUSTOM ACCESS PANELS</u></b>												
272 Doors, specialty, access, standard, metal, 8" x 8"	(8)	Ea.	(6)	(\$359)	(\$320)	\$0	\$0	(\$19)	(\$699)	(\$108)	(\$88)	(\$895)
			0.8	44.93	40.00			2.40	87.33	13.54	11.02	111.89

**Vaughan Civic Centre**

Vaughan, Ontario

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$844,685</u>													
<u>\$844,685</u>													
<u>\$844,685</u>													
<b><u>CHANGE ORDER #221 SUPPLY AND INSTALL CUSTOM ACCESS PANELS</u></b>													
273	Doors, specialty, access, flush door for finishing, metal, 12" x 12"	8	Ea.	6	\$359	\$400	\$0	\$0	\$24	\$783	\$121	\$110	<b>\$1,015</b>
				0.8	44.93	50.00			3.00	97.93	15.18	13.77	126.88
	Subtotal				\$0	\$80	\$0	\$0	\$5	\$85	\$13	\$22	<b>\$120</b>
	Taxes				\$0	\$5	\$0	\$0					
	Subcontractor Markups				\$0	\$13	\$0	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$22	\$0	\$0					
<b>TOTAL CHANGE ORDER #221 SUPPLY AND INSTALL CUSTOM ACCESS PANELS</b>					<b>\$0</b>	<b>\$120</b>	<b>\$0</b>	<b>\$0</b>	<b>\$5</b>	<b>\$85</b>	<b>\$13</b>	<b>\$22</b>	<b>\$120</b>
<b>1.00 LS</b>													
<u>\$844,685</u>													
<u>\$844,685</u>													
<u>\$844,685</u>													
<b><u>CHANGE ORDER #249 100 LEVEL AGILIA AZTEC BOLSTER &amp; AZTEC</u></b>													
274	Delete Beam bolsters, for reinforcing steel, lower (BB), epoxy dipped, 2" high, includes material only	(40)	C.L.		\$0	(\$6,960)	\$0	\$0	(\$418)	(\$7,378)	\$0	(\$1,660)	<b>(\$9,038)</b>
						174.00			10.44	184.44		41.50	225.94
275	Beam bolsters, for reinforcing steel, lower (BB), plastic tipped legs, 2" high, includes material only	50	C.L.		\$0	\$6,150	\$0	\$0	\$369	\$6,519	\$0	\$1,467	<b>\$7,986</b>
						123.00			7.38	130.38		29.34	159.72
276	Beam bolsters, for reinforcing steel, upper, (BBU), plain steel, 3" high, includes material only	(15)	C.L.		\$0	(\$5,325)	\$0	\$0	(\$320)	(\$5,645)	\$0	(\$1,270)	<b>(\$6,915)</b>
						355.00			21.30	376.30		84.67	460.97
277	High chairs, for reinforcing steel, individual (HC), plastic tipped legs, 5" high, includes material only	20	C		\$0	\$3,220	\$0	\$0	\$193	\$3,413	\$0	\$768	<b>\$4,181</b>
						161.00			9.66	170.66		38.40	209.06
278	High chair, for reinforcing steel, continuous (CHC), galvanized, 8" high, legs 8" O.C., includes material only	(11.25)	C.L.		\$0	(\$3,173)	\$0	\$0	(\$190)	(\$3,363)	\$0	(\$757)	<b>(\$4,119)</b>
						282.00			16.92	298.92		67.26	366.18
279	High chairs, for reinforcing steel, individual (HC), plastic tipped legs, 8" high, includes material only	15	C		\$0	\$5,325	\$0	\$0	\$320	\$5,645	\$0	\$1,270	<b>\$6,915</b>
						355.00			21.30	376.30		84.67	460.97

**Vaughan Civic Centre**

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U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$844,685</u>												
<u>\$844,685</u>												
<u>\$844,685</u>												
<b>CHANGE ORDER #249 100 LEVEL AGILIA AZTEC BOLSTER &amp; AZTEC</b>												
<b>280 Additional Labor</b>	<b>25</b>	<b>HRS</b>	25	\$1,500	\$0	\$0	\$0	\$0	\$1,500	\$0	\$0	<b>\$1,500</b>
			1	60.00					60.00			60.00
Subtotal				\$1,500	(\$763)	\$0	\$0	(\$46)	\$692	\$0	(\$182)	<b>\$510</b>
Taxes				\$0	(\$46)	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	(\$182)	\$0	\$0					
<b>TOTAL CHANGE ORDER #249 100 LEVEL AGILIA AZTEC BOLSTER &amp; AZTEC</b>	<b>25</b>			<b>\$1,500</b>	<b>(\$990)</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$46)</b>	<b>\$692</b>	<b>\$0</b>	<b>(\$182)</b>	<b>\$510</b>
<b>1.00 LS</b>												
<u>\$844,685</u>												
<u>\$844,685</u>												
<u>\$844,685</u>												
<b>CHANGE ORDER #252 BOSTON VALLEY ADDITIONAL COSTS</b>												
<b>281 Terra Cotta Revisions</b>	<b>1</b>	<b>LS</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$0</b>
							0.01		0.01			0.01
<b>TOTAL CHANGE ORDER #252 BOSTON VALLEY ADDITIONAL COSTS</b>				<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>1.00 LS</b>												
Memo: Unable to evaluate this change orders as square footage quantities were not available. Quantity of panels were given, but sizes of each panel were not available.												
<u>\$844,685</u>												
<u>\$1,767</u>												
<u>\$1,767</u>												
<u>\$1,767</u>												
<b>BRANCH WIRING</b>												
<b>282 EMT, 3/4"C, to 15' high, incl couplings only</b>	<b>0.90</b>	<b>C</b>	3	\$228	\$68	\$0	\$0	\$4	\$299	\$46	\$19	<b>\$364</b>
			3.2	252.80	75.00			4.50	332.30	51.51	20.66	404.47
<b>283 EMT boxes connectors, insulated, set screw, 3/4" diameter, to 15' H</b>	<b>0.04</b>	<b>C</b>		\$23	\$12	\$0	\$0	\$1	\$36	\$6	\$3	<b>\$44</b>
			7.3	576.75	294.00			17.65	888.40	137.70	80.97	1,107.08
<b>284 EMT couplings, set screw, steel, 3/4" diameter, to 15' H</b>	<b>0.08</b>	<b>C</b>		\$0	\$22	\$0	\$0	\$1	\$24	\$4	\$6	<b>\$33</b>
					278.00			16.68	294.68	45.67	76.58	416.93

**Vaughan Civic Centre**

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**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<p><u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u></p> <p><u>\$1,767</u>      <u>CHANGE ORDER #294 REVISED MECHANICAL AT WEST FACADE OF</u></p> <p><u>\$1,767</u>      <u>ELECTRICAL</u></p> <p><u>\$1,767</u>      <u>LIGHTING &amp; BRANCH WIRING</u></p> <p><b><u>BRANCH WIRING</u></b></p>													
285	EMT 1 hole clips, 3/4" diameter, to 15' H	0.18	C		\$24	\$13	\$0	\$0	\$1	\$38	\$6	\$4	<b>\$47</b>
				1.7	134.28	71.00		4.26	209.54	32.48	19.56	261.58	
286	Wire, copper, solid, 600 volt, #12 RW90	0.51	M	4	\$322	\$59	\$0	\$0	\$4	\$385	\$60	\$16	<b>\$461</b>
				8	632.00	116.43		6.99	755.42	117.09	32.07	904.58	
287	Armored cable, copper, solid, 600 V, 2 conductor, #12, BX, AC-90	0.02	M	1	\$55	\$10	\$0	\$0	\$1	\$66	\$10	\$3	<b>\$78</b>
				34.8	2,747.50	501.00		30.05	3,278.55	508.25	138.05	3,924.85	
288	Cable connectors, 3/8"	0.04	C		\$38	\$2	\$0	\$0	\$0	\$40	\$6	\$0	<b>\$46</b>
				12	948.00	39.50		2.38	989.88	153.43	10.85	1,154.15	
289	Cable connectors #33, nonmetallic, 600 volt, #14 - #12 wire	0.06	C		\$28	\$0	\$0	\$0	\$0	\$29	\$4	\$0	<b>\$34</b>
				6	474.00	8.17		0.48	482.65	74.80	2.23	559.68	
290	Outlet boxes, pressed steel, 4" square	0.02	C	1	\$63	\$5	\$0	\$0	\$0	\$68	\$11	\$1	<b>\$80</b>
				40	3,160.00	238.00		14.30	3,412.30	528.90	65.55	4,006.75	
291	Handy boxes, pressed steel, 1-7/8"S 1/2"KO	0.01	C		\$23	\$3	\$0	\$0	\$0	\$27	\$4	\$1	<b>\$32</b>
				29.6	2,338.00	342.00		20.50	2,700.50	418.70	94.20	3,213.40	
292	Outlet boxes, pressed steel, covers, blank, 4" square	0.02	C		\$20	\$3	\$0	\$0	\$0	\$23	\$4	\$1	<b>\$27</b>
				12.5	987.50	140.00		8.40	1,135.90	176.05	38.55	1,350.50	
293	Fanswitch, single pole, 20 amp	1	Ea.		\$23	\$14	\$0	\$0	\$1	\$38	\$6	\$4	<b>\$48</b>
				0.296	23.38	14.10		0.85	38.33	5.94	3.88	48.15	
294	Wall plates, stainless steel, 1 gang	0.01	C		\$8	\$2	\$0	\$0	\$0	\$10	\$2	\$1	<b>\$13</b>
				10	790.00	230.00		13.80	1,033.80	160.30	63.40	1,257.50	

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<b><u>BRANCH WIRING</u></b>													
<u>\$844.685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,767</u>	<u>CHANGE ORDER #294 REVISED MECHANICAL AT WEST FACADE OF</u>												
<u>\$1,767</u>	<u>ELECTRICAL</u>												
<u>\$1,767</u>	<u>LIGHTING &amp; BRANCH WIRING</u>												
295	#10-12 Plastic Plug (1/4) (Please have contractor define this Item & QTY)	0.25	C	5	\$395	\$1	\$0	\$0	\$396	\$61	\$0	<b>\$458</b>	
				20	1,580.00	5.36		0.32	1,585.68	245.78	1.47	1,832.93	
	Subtotal				\$1,251	\$214	\$0	\$0	\$13	\$1,478	\$229	\$59	<b>\$1,767</b>
	Taxes				\$0	\$13	\$0	\$0					
	Subcontractor Markups				\$194	\$35	\$0	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$59	\$0	\$0					
	<b>TOTAL BRANCH WIRING</b>	<b>16</b>			<b>\$1,445</b>	<b>\$322</b>	<b>\$0</b>	<b>\$0</b>	<b>\$13</b>	<b>\$1,478</b>	<b>\$229</b>	<b>\$59</b>	<b>\$1,767</b>
	<b>1.00 LS</b>												
<b><u>CHANGE ORDER #360 REVISIONS TO LANDSCAPE PLANTING</u></b>													
<u>\$844.685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$844.685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$844.685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
296	Red Osier dogwood, B & B, 3' - 4', planted in prepared beds	(3)	Ea.	(2)	(\$102)	(\$80)	(\$49)	\$0	(\$5)	(\$236)	(\$37)	(\$22)	<b>(\$294)</b>
				0.8	34.14	26.50	16.34	1.59	78.58	12.18	7.30	98.06	
297	Yellow Twig dogwood, B & B, 3' - 4', planted in prepared beds	(3)	Ea.	(2)	(\$102)	(\$80)	(\$49)	\$0	(\$5)	(\$236)	(\$37)	(\$22)	<b>(\$294)</b>
				0.8	34.14	26.50	16.34	1.59	78.58	12.18	7.30	98.06	
298	Hicks Yew, B & B, 3' - 4', planted in prepared beds	(181)	Ea.	(145)	(\$7,688)	(\$9,267)	\$0	\$0	(\$556)	(\$17,512)	(\$2,714)	(\$2,553)	<b>(\$22,779)</b>
				0.8	42.48	51.20		3.07	96.75	15.00	14.10	125.85	
299	Boston Ivy, container, 5 gallon	(16)	Ea.	(13)	(\$671)	(\$408)	\$0	\$0	(\$24)	(\$1,104)	(\$171)	(\$112)	<b>(\$1,387)</b>
				0.8	41.94	25.50		1.53	68.97	10.69	7.02	86.69	
300	Soil preparation, structural soil mixing, spread topsoil, skid steer loader andhand dress	100	m3	12	\$570	\$3,000	\$79	\$0	\$180	\$3,829	\$593	\$826	<b>\$5,249</b>
				0.117	5.70	30.00	0.79	1.80	38.29	5.93	8.26	52.49	
301	Ornamental Pear, B&B, 2-1/2" caliper	9	Ea.	54	\$2,305	\$1,368	\$1,103	\$0	\$82	\$4,858	\$753	\$377	<b>\$5,988</b>
				6	256.08	152.00	122.59	9.12	539.79	83.67	41.87	665.33	
302	Dwarf Burning Bush, B & B, 2' to 2-1/2'	8	Ea.	4	\$212	\$184	\$0	\$0	\$11	\$407	\$63	\$51	<b>\$521</b>
				0.5	26.55	23.00		1.38	50.93	7.89	6.34	65.16	

**Vaughan Civic Centre**

**EXPANDED - DETAIL REPORT**

Vaughan, Ontario

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<b><u>CHANGE ORDER #360 REVISIONS TO LANDSCAPE PLANTING</u></b>												
303 Dwarf Korean Lilac, B & B, 2' to 2-1/2'	105	Ea.	53	\$2,788	\$2,520	\$0	\$0	\$151	\$5,459	\$846	\$694	<b>\$6,999</b>
			0.5	26.55	24.00			1.44	51.99	8.06	6.61	66.66
304 Hicks Yew, B & B, 3' - 4', planted in prepared beds	371	Ea.	297	\$15,759	\$18,995	\$0	\$0	\$1,140	\$35,894	\$5,564	\$5,233	<b>\$46,690</b>
			0.8	42.48	51.20			3.07	96.75	15.00	14.10	125.85
305 Common Privet ), container, 2 gallon	150	Ea.	60	\$3,186	\$1,950	\$0	\$0	\$117	\$5,253	\$814	\$537	<b>\$6,604</b>
			0.4	21.24	13.00			0.78	35.02	5.43	3.58	44.03
306 Karl Foerster Grass, container, 1 gal.	15	Ea.	4	\$203	\$225	\$0	\$0	\$14	\$442	\$68	\$62	<b>\$572</b>
			0.255	13.54	15.00			0.90	29.44	4.56	4.13	38.13
Subtotal				\$16,458	\$18,408	\$1,084	\$0	\$1,104	\$37,055	\$5,744	\$5,071	<b>\$47,869</b>
Taxes				\$0	\$1,104	\$0	\$0					
Subcontractor Markups				\$2,551	\$3,024	\$168	\$0					
Prime Contractor Markups from 01 AA				\$0	\$5,071	\$0	\$0					
<b>TOTAL CHANGE ORDER #360 REVISIONS TO LANDSCAPE PLANTING</b>	<b>320</b>			<b>\$19,010</b>	<b>\$27,608</b>	<b>\$1,252</b>	<b>\$0</b>	<b>\$1,104</b>	<b>\$37,055</b>	<b>\$5,744</b>	<b>\$5,071</b>	<b>\$47,869</b>

**1.00 LS**

Memo: The plant sizes in the estimate were assumed as the CO documents did not indicate the plant sizes,

\$844,685  
\$844,685  
\$844,685

VAUGHN CITY HALL CHANGE ORDERS  
VAUGHN CITY HALL CHANGE ORDERS  
VAUGHN CITY HALL CHANGE ORDERS

**CHANGE ORDER #362 STONE WALL IN MAIN LOBBY - REVISED STONE**

307 Ciot Grigio Piave Stone	800	S.F.	197	\$10,592	\$28,000	\$3,701	\$0	\$1,680	\$43,973	\$5,892	\$7,573	<b>\$57,438</b>
			0.246	13.24	35.00	4.63		2.10	54.97	7.37	9.47	71.80
308 Verde Celadon Stone	(800)	S.F.	(197)	(\$10,592)	(\$32,000)	(\$3,701)	\$0	(\$1,920)	(\$48,213)	(\$6,461)	(\$8,655)	<b>(\$63,328)</b>
			0.246	13.24	40.00	4.63		2.40	60.27	8.08	10.82	79.16
309 Delete Type 'HC' luminaires	(14)	Ea.		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$0</b>
					0.01				0.01			0.01

Memo: Can not evaluate fixture cost due to lack of fixture

**Vaughan Civic Centre**

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**EXPANDED - DETAIL REPORT**

U. S. Cost

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$844,685</u>												
<u>\$844,685</u>												
<u>\$844,685</u>												
<b><u>CHANGE ORDER #362 STONE WALL IN MAIN LOBBY - REVISED STONE</u></b>												
310 Delete Type 'HA' luminaires	(24)	Ea.		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
					0.01				0.01			0.01
Memo: Can not evaluate fixture cost due to lack of fixture												
311 Provide Type 'LB' luminaires	19	Ea.		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
					0.01				0.01			0.01
Memo: Unable to evaluate fixture cost due to lack price												
Subtotal				\$0	(\$4,000)	\$0	\$0	(\$240)	(\$4,240)	(\$568)	(\$1,082)	(\$5,890)
Taxes				\$0	(\$240)	\$0	\$0					
Subcontractor Markups				\$0	(\$568)	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	(\$1,082)	\$0	\$0					
<b>TOTAL CHANGE ORDER #362 STONE WALL IN MAIN LOBBY - REVISED STONE</b>				<b>\$0</b>	<b>(\$5,890)</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$240)</b>	<b>(\$4,240)</b>	<b>(\$568)</b>	<b>(\$1,082)</b>	<b>(\$5,890)</b>
<b>1.00 LS</b>												
Memo: Unable to locate material pricing on the stone.												
<u>\$844,685</u>												
<u>\$844,685</u>												
<u>\$844,685</u>												
<b><u>CHANGE ORDER #418 CERAMIC TILE BASE AT ROOMS 021, 022</u></b>												
312 Ceramic tile, cove base, mud set, 4-1/4" x 4-1/4"	700	L.F.	123	\$7,030	\$2,751	\$0	\$0	\$165	\$9,946	\$1,542	\$758	\$12,246
			0.176	10.04	3.93			0.24	14.21	2.20	1.08	17.49
Subtotal				\$7,030	\$2,751	\$0	\$0	\$165	\$9,946	\$1,542	\$758	\$12,246
Taxes				\$0	\$165	\$0	\$0					
Subcontractor Markups				\$1,090	\$452	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$758	\$0	\$0					
<b>TOTAL CHANGE ORDER #418 CERAMIC TILE BASE AT ROOMS 021, 022</b>	<b>123</b>			<b>\$8,120</b>	<b>\$4,126</b>	<b>\$0</b>	<b>\$0</b>	<b>\$165</b>	<b>\$9,946</b>	<b>\$1,542</b>	<b>\$758</b>	<b>\$12,246</b>
<b>1.00 LS</b>												
<u>\$844,685</u>												
<u>\$844,685</u>												
<u>\$844,685</u>												
<b><u>CHANGE ORDER #420 REVISED HARDWARE TO MEET SECURITY</u></b>												
313 Hardware Re-stocking Fee	(10)			\$0	\$0	\$0	(\$1,010)	\$0	(\$1,010)	\$0	\$0	(\$1,010)
							101.00		101.00			101.00



**Vaughan Civic Centre**

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$844,685</u>													
<u>\$844,685</u>													
<u>\$844,685</u>													
<b><u>CHANGE ORDER #420 REVISED HARDWARE TO MEET SECURITY</u></b>													
314	Door hardware, panic device, single door, bar and vertical rod, exit only	1	Ea.	2	\$90	\$735	\$0	\$0	\$44	\$869	\$0	\$175	<b>\$1,044</b>
				1.6	89.86	735.00		44.10	868.96		175.30	1,044.26	
315	Rework HM Frames and WD Doors	1	LS		\$0	\$0	\$0	\$10,700	\$0	\$10,700	\$0	\$0	<b>\$10,700</b>
							10,700.00		10,700.00			10,700.00	
	Subtotal				\$90	\$735	\$0	\$9,690	\$44	\$10,559	\$0	\$175	<b>\$10,734</b>
	Taxes				\$0	\$44	\$0	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$175	\$0	\$0					
<b>TOTAL CHANGE ORDER #420 REVISED HARDWARE TO MEET SECURITY</b>		<b>2</b>			<b>\$90</b>	<b>\$954</b>	<b>\$0</b>	<b>\$9,690</b>	<b>\$44</b>	<b>\$10,559</b>	<b>\$0</b>	<b>\$175</b>	<b>\$10,734</b>
<b>1.00 LS</b>													
<u>\$844,685</u>													
<u>\$844,685</u>													
<u>\$844,685</u>													
<b><u>CHANGE ORDER #426 HARDWARE REVISION ELECTRIC LOCKS AT</u></b>													
316	Doors & Frames, aluminum, entrance, for electric striker release, incl. standard hardware, excl. glass, add	(5)	Png		\$0	(\$1,260)	\$0	\$0	(\$76)	(\$1,336)	(\$207)	(\$347)	<b>(\$1,890)</b>
						252.00		15.12	267.12	41.40	69.42	377.94	
317	Detection Systems, electric strike lock, combination holder and closer, excluding wires & conduits	5	Ea.	13	\$988	\$595	\$0	\$0	\$36	\$1,618	\$251	\$164	<b>\$2,033</b>
				2.5	197.50	119.00		7.14	323.64	50.16	32.78	406.58	
318	Rework HM Doors and Frames for Electrified Hardware	1	LS		\$0	\$0	\$0	\$2,174	\$0	\$2,174	\$0	\$0	<b>\$2,174</b>
							2,174.00		2,174.00			2,174.00	
319	Electrical connections & wiring	1	Ea.		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$0</b>
						0.01			0.01			0.01	
Memo: Per CCO-218, "Note all wiring, other hardware such as													
	Subtotal				\$988	(\$665)	\$0	\$2,174	(\$40)	\$2,457	\$44	(\$183)	<b>\$2,317</b>
	Taxes				\$0	(\$40)	\$0	\$0					
	Subcontractor Markups				\$153	(\$109)	\$0	\$0					
	Prime Contractor Markups from 01 AA				\$0	(\$183)	\$0	\$0					
<b>TOTAL CHANGE ORDER #426 HARDWARE REVISION ELECTRIC LOCKS AT</b>		<b>13</b>			<b>\$1,141</b>	<b>(\$997)</b>	<b>\$0</b>	<b>\$2,174</b>	<b>(\$40)</b>	<b>\$2,457</b>	<b>\$44</b>	<b>(\$183)</b>	<b>\$2,317</b>
<b>1.00 LS</b>													

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$844,685</u> <u>\$844,685</u> <u>\$844,685</u>													
<b><u>CHANGE ORDER #426 HARDWARE REVISION ELECTRIC LOCKS AT</u></b>													
<u>\$844,685</u> <u>\$844,685</u> <u>\$844,685</u>													
<b><u>CHANGE ORDER #471 STRUCTURAL COORDINATION AT ROOM 293, 393</u></b>													
<b>320</b>	<b>C.I.P. concrete forms</b>	<b>10.30</b>	<b>m2CA</b>	<b>14</b>	<b>\$803</b>	<b>\$288</b>	<b>\$0</b>	<b>\$0</b>	<b>\$17</b>	<b>\$1,109</b>	<b>\$172</b>	<b>\$79</b>	<b>\$1,360</b>
				1.396	78.00	28.00		1.68	107.68	16.69	7.71	132.09	
<b>321</b>	<b>Structural concrete, placing</b>	<b>1.30</b>	<b>m3</b>	<b>2</b>	<b>\$96</b>	<b>\$46</b>	<b>\$22</b>	<b>\$0</b>	<b>\$3</b>	<b>\$167</b>	<b>\$26</b>	<b>\$13</b>	<b>\$205</b>
				1.395	74.00	35.00	17.22	2.10	128.32	19.89	9.64	157.85	
	Subtotal				\$900	\$334	\$22	\$0	\$20	\$1,276	\$198	\$92	\$1,566
	Taxes				\$0	\$20	\$0	\$0					
	Subcontractor Markups				\$139	\$55	\$3	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$92	\$0	\$0					
<b>TOTAL CHANGE ORDER #471 STRUCTURAL COORDINATION AT ROOM 293, 393</b>		<b>16</b>			<b>\$1,039</b>	<b>\$501</b>	<b>\$26</b>	<b>\$0</b>	<b>\$20</b>	<b>\$1,276</b>	<b>\$198</b>	<b>\$92</b>	<b>\$1,566</b>
<b>1.00 LS</b>													
<u>\$844,685</u> <u>\$844,685</u> <u>\$844,685</u>													
<b><u>CHANGE ORDER #508 ROOF MEMBRANE</u></b>													
<b>322</b>	<b>Selective demolition, thermal and moisture protection, roofing, single ply membrane, fully adhered</b>	<b>(1,000)</b>	<b>Sq.</b>	<b>(1,026)</b>	<b>(\$54,204)</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$54,204)</b>	<b>(\$11,383)</b>	<b>\$0</b>	<b>(\$65,587)</b>
				1.026	54.20				54.20	11.38		65.59	
<b>323</b>	<b>Selective demolition, thermal and moisture protection, roofing, built-up, 5-ply, includes gravel</b>	<b>100,000</b>	<b>S.F.</b>	<b>4,500</b>	<b>\$237,736</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$237,736</b>	<b>\$49,925</b>	<b>\$0</b>	<b>\$287,661</b>
				0.045	2.38				2.38	0.50		2.88	
	Subtotal				\$183,532	\$0	\$0	\$0	\$0	\$183,532	\$38,542	\$0	\$222,074
	Subcontractor Markups				\$38,542	\$0	\$0	\$0					
<b>TOTAL CHANGE ORDER #508 ROOF MEMBRANE</b>		<b>3,474</b>			<b>\$222,074</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$183,532</b>	<b>\$38,542</b>	<b>\$0</b>	<b>\$222,074</b>
<b>100,000.00 SF</b>				<i>Level Unit Cost--&gt;</i>	<i>\$2.22</i>				<i>\$1.84</i>	<i>\$0.39</i>		<i>\$2.22</i>	

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$844,685</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<b><u>CHANGE ORDER #527 ROOF NO. 10</u></b>													
324	Delete Layer of Insulation on Balance of Roof	(4,260)	S.F.		\$0	\$0	\$0	(\$3,621)	\$0	(\$3,621)	\$0	\$0	<b>(\$3,621)</b>
							0.85		0.85				0.85
325	Reduction in Labor, 7 Man Crew	1	LS		\$0	\$0	\$0	(\$4,500)	\$0	(\$4,500)	\$0	\$0	<b>(\$4,500)</b>
							(4,500.00)		(4,500.00)				(4,500.00)
326	Labor to Remove Installed Roof	1	LS		\$0	\$0	\$0	\$4,500	\$0	\$4,500	\$0	\$0	<b>\$4,500</b>
							4,500.00		4,500.00				4,500.00
327	Re-stocking and Trucking Insulation	1	LS		\$0	\$0	\$0	\$1,500	\$0	\$1,500	\$0	\$0	<b>\$1,500</b>
							1,500.00		1,500.00				1,500.00
328	Roof Deck Insulation, fiberglass, 3/4" thick, R2.78	2,148	S.F.	17	\$595	\$1,138	\$0	\$0	\$68	\$1,802	\$378	\$329	<b>\$2,509</b>
				0.008	0.28	0.53		0.03	0.84	0.18	0.15	1.17	
	Subtotal				\$595	\$1,138	\$0	(\$2,121)	\$68	(\$319)	\$378	\$329	<b>\$388</b>
	Taxes				\$0	\$68	\$0	\$0					
	Subcontractor Markups				\$125	\$253	\$0	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$329	\$0	\$0					
	<b>TOTAL CHANGE ORDER #527 ROOF NO. 10</b>	<b>17</b>			<b>\$720</b>	<b>\$1,789</b>	<b>\$0</b>	<b>(\$2,121)</b>	<b>\$68</b>	<b>(\$319)</b>	<b>\$378</b>	<b>\$329</b>	<b>\$388</b>
	<b>1.00 LS</b>												

\$6,758

\$6,758

\$6,758

VAUGHN CITY HALL CHANGE ORDERS

CHANGE ORDER #537 MECHANICAL AT CAFE KITCHEN (ELECTRICAL)

LIGHTING & BRANCH WIRING

**BRANCH WIRING**

329	EMT, 3/4"C, to 15' high, incl couplings only	0.50	C	2	\$126	\$39	\$0	\$0	\$2	\$167	\$26	\$11	<b>\$204</b>
				3.2	252.80	77.00			4.62	334.42	51.84	21.21	407.47
330	EMT boxes connectors, set screw, steel, 3/4" diameter, to 15' H	0.06	C		\$35	\$14	\$0	\$0	\$1	\$49	\$8	\$4	<b>\$61</b>
				7.3	576.67	231.00			13.87	821.53	127.33	63.63	1,012.50
331	EMT couplings, set screw, steel, 3/4" diameter, to 15' H	0.05	C		\$0	\$15	\$0	\$0	\$1	\$15	\$2	\$4	<b>\$22</b>
						292.00			17.52	309.52	47.98	80.44	437.94

**Vaughan Civic Centre**

Vaughan, Ontario

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**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<p><u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$6,758</u>        <u>CHANGE ORDER #537 MECHANICAL AT CAFE KITCHEN (ELECTRICAL)</u>  <u>\$6,758</u>        <u>LIGHTING &amp; BRANCH WIRING</u></p> <p><b><u>BRANCH WIRING</u></b></p>													
332	EMT 1 hole clips, 3/4" diameter, to 15' H	0.06	C		\$8	\$4	\$0	\$0	\$0	\$13	\$2	\$1	<b>\$16</b>
				1.7	134.33	74.00		4.43	212.77	32.97	20.38		266.12
333	Wire, copper, solid, 600 volt, #12 RW90	0.30	M	2	\$190	\$37	\$0	\$0	\$2	\$229	\$35	\$10	<b>\$274</b>
				8	632.00	122.57		7.35	761.92	118.10	33.76		913.78
334	Wire, copper, solid, 600 volt, #14 RW90	0.05	M		\$32	\$4	\$0	\$0	\$0	\$36	\$6	\$1	<b>\$43</b>
				8	632.00	81.80		4.90	718.70	111.38	22.50		852.58
335	Armored cable, copper, solid, 600 V, 2 conductor, #12, BX, AC-90	0.08	M	3	\$220	\$42	\$0	\$0	\$3	\$265	\$41	\$12	<b>\$317</b>
				34.775	2,747.63	527.50		31.65	3,306.78	512.54	145.29		3,964.60
336	Outlet boxes, pressed steel, 4" square	0.03	C	1	\$95	\$9	\$0	\$0	\$1	\$105	\$16	\$3	<b>\$124</b>
				40	3,160.00	315.00		18.90	3,493.90	541.57	86.77		4,122.23
337	Outlet boxes, pressed steel, covers, blank, 4" square	0.03	C		\$30	\$5	\$0	\$0	\$0	\$35	\$5	\$1	<b>\$42</b>
				12.5	987.67	165.00		9.90	1,162.57	180.17	45.47		1,388.20
338	Handy boxes, pressed steel, concealed	0.02	C	1	\$47	\$8	\$0	\$0	\$0	\$55	\$9	\$2	<b>\$66</b>
				29.6	2,338.50	402.00		24.10	2,764.60	428.50	110.75		3,303.85
339	Toggle switch, quiet type, single pole, 20 amp	0.02	C	1	\$47	\$17	\$0	\$0	\$1	\$65	\$10	\$5	<b>\$79</b>
				29.6	2,338.50	849.00		50.95	3,238.45	501.95	233.90		3,974.30
340	Screw, self tapping 1"X10	25	C		\$0	\$195	\$0	\$0	\$12	\$207	\$32	\$54	<b>\$292</b>
						7.80		0.47	8.27	1.28	2.15		11.70
341	Motor starter, comb w/circuit breakers, NEMA-1	1	Ea.	13	\$1,053	\$1,775	\$0	\$0	\$107	\$2,935	\$455	\$489	<b>\$3,879</b>
				13.333	1,053.31	1,775.00		106.50	2,934.81	454.90	488.95		3,878.66
342	Doors, specialty, access, fire rated, with lock, metal, 18" x 18"	1	Ea.	1	\$50	\$205	\$0	\$0	\$12	\$267	\$41	\$56	<b>\$365</b>
				0.889	49.93	205.00		12.30	267.23	41.42	56.47		365.12

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

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<p><u>\$844,685</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$6,758</u>      <u>CHANGE ORDER #537 MECHANICAL AT CAFE KITCHEN (ELECTRICAL)</u>  <u>\$6,758</u>      <u>LIGHTING &amp; BRANCH WIRING</u></p>													
<b><u>BRANCH WIRING</u></b>													
343	1	Ea.		\$0	\$650	\$0	\$0	\$39	\$689	\$107	\$179	<b>\$975</b>	
					650.00			39.00	689.00	106.80	179.05	974.85	
Memo: Unable to evaluate FIRE ALARM Net Price Unit (\$650)													
344	1	Ea.		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$0</b>	
												0.00	
Memo: Unable to evaluate LOT LABOUR (48 hRS) for "Work"													
				\$1,931	\$3,019	\$0	\$0	\$181	\$5,131	\$795	\$832	<b>\$6,758</b>	
				\$0	\$181	\$0	\$0						
				\$299	\$496	\$0	\$0						
				\$0	\$832	\$0	\$0						
			<b>TOTAL BRANCH WIRING</b>	<b>25</b>	<b>\$2,231</b>	<b>\$4,528</b>	<b>\$0</b>	<b>\$0</b>	<b>\$181</b>	<b>\$5,131</b>	<b>\$795</b>	<b>\$832</b>	<b>\$6,758</b>
<b>1.00 LS</b>													



**U.S. COST**

## **U.S. COST INCORPORATED**

ATLANTA-DALLAS-ARLINGTON  
1200 Abernathy Road, NE  
Building 600, Suite 950  
Atlanta, Georgia 30328  
Telephone (770) 481-1600  
Facsimile Number (770) 481-1640  
Web Site [www.uscost.com](http://www.uscost.com)

### **TRANSMITTAL**

Date: **June 6, 2011**

USC Job #: **4528.001**

Client Job #: **0**

Shipping Method: **E-Mail**

To: **Commercial Cost Control, Inc.**  
**540 Clark Rd.**  
**Hopewell, Pennsylvania 16650**

Attention: **Jake Ortego, PE**

Project Name: **Change Order Analysis**

Project Location: **Vaughan, Ontario**

Design Submission: **Change Order Analysis Estimate**

Copies (Bound): **N/A**

Copies (Unbound): **N/A**

Electronic Copy: **1**

Revision No:

Copies Sent To:

Comments:

Signed: *Katrina D. Knight*

**Katrina Knight (770-481-1623)**

# CHANGE ORDER ANALYSIS

FOR:

**Vaughn Civic Centre**  
VAUGHAN, ONTARIO

OWNER:

City of Vaughan, Ontario

Prepared For:

**Commercial Cost Control, Inc.**  
540 Clark Road  
Hopewell, PA 16650

PREPARED BY:



**U.S. COST**

1200 Abernathy Road, Building 600, Suite 950  
Atlanta, Georgia 30328

June 6, 2011

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<b><u>CHANGE ORDER #1 REMOVAL AND DISPOSAL OF UNSUITABLE FILL</u></b>													
1	CHANGE ORDER #01	1	LS		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
							0.10		0.10			0.10	
Memo: Unable to validate CHANGE ORDER #01 due to unknown													
<b>TOTAL CHANGE ORDER #1 REMOVAL AND DISPOSAL OF UNSUITABLE FILL</b>					<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	
<b>1.00 LS</b>													
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<b><u>CHANGE ORDER #9 REVISION TO WEEPING TILE SYSTEM</u></b>													
2	Excavating, bulk, dozer, open site, bank measure, common earth, 200 H.P. dozer,300' push	2,228	Bank	128	\$5,908	\$0	\$11,444	\$0	\$0	\$17,351	\$2,689	\$0	<b>\$20,041</b>
				0.058	2.65		5.14		7.79	1.21		8.99	
3	Geotextile Subsurface Drainage Filtration, drainage material, pea stone fill intrench	4,038	M3	486	\$23,675	\$184,851	\$5,778	\$0	\$11,091	\$225,395	\$34,936	\$50,921	<b>\$311,252</b>
				0.12	5.86	45.78	1.43		2.75	55.82	8.65	12.61	77.08
4	Geotextile Subsurface Drainage Filtration, plastic filter fabric, in underground drain lines	15,197	M2	4,075	\$202,138	\$11,287	\$57,194	\$0	\$677	\$271,296	\$42,051	\$3,109	<b>\$316,456</b>
				0.268	13.30	0.74	3.76		0.04	17.85	2.77	0.20	20.82
5	Subdrainage Piping, corrugated plastic tubing, perforated or plain, in rolls, 8" diameter, excludes excavation and backfill	3,402	L.M.	257	\$13,460	\$108,824	\$0	\$0	\$6,529	\$128,813	\$19,966	\$29,977	<b>\$178,756</b>
				0.075	3.96	31.99			1.92	37.86	5.87	8.81	52.54
6	Excavating, bulk, dozer, open site, bank measure, common earth, 200 H.P. dozer,300' push	(581.23)	Bank	(33)	(\$1,541)	\$0	(\$2,985)	\$0	\$0	(\$4,527)	(\$702)	\$0	<b>(\$5,228)</b>
				0.058	2.65		5.14		7.79	1.21		8.99	
7	Geotextile Subsurface Drainage Filtration, plastic filter fabric, in underground drain lines	(6,931)	M2	(1,858)	(\$92,190)	(\$5,148)	(\$26,085)	\$0	(\$309)	(\$123,732)	(\$19,178)	(\$1,418)	<b>(\$144,328)</b>
				0.268	13.30	0.74	3.76		0.04	17.85	2.77	0.20	20.82
8	Subdrainage Piping, corrugated plastic tubing, perforated or plain, in rolls, 8" diameter, excludes excavation and backfill	(3,209)	L.M.	(242)	(\$12,696)	(\$102,650)	\$0	\$0	(\$6,159)	(\$121,505)	(\$18,833)	(\$28,277)	<b>(\$168,615)</b>
				0.075	3.96	31.99			1.92	37.86	5.87	8.81	52.54



**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<b><u>CHANGE ORDER #9 REVISION TO WEEPING TILE SYSTEM</u></b>													
9	Geotextile Subsurface Drainage Filtration, drainage material, gravel fill in trench, 3/4"	(1,056)	M3	(127)	(\$6,191)	(\$39,364)	(\$1,511)	\$0	(\$2,362)	(\$49,428)	(\$7,661)	(\$10,843)	<b>(\$67,933)</b>
				0.12	5.86	37.28	1.43	2.24	46.81	7.25	10.27	64.33	
	Subtotal				\$132,561	\$157,801	\$43,834	\$0	\$9,468	\$343,664	\$53,268	\$43,469	<b>\$440,401</b>
	Taxes				\$0	\$9,468	\$0	\$0					
	Subcontractor Markups				\$20,547	\$25,927	\$6,794	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$43,469	\$0	\$0					
	<b>TOTAL CHANGE ORDER #9 REVISION TO WEEPING TILE SYSTEM</b>	<b>2,685</b>			<b>\$153,108</b>	<b>\$236,664</b>	<b>\$50,629</b>	<b>\$0</b>	<b>\$9,468</b>	<b>\$343,664</b>	<b>\$53,268</b>	<b>\$43,469</b>	<b>\$440,401</b>
	<b>1.00 LS</b>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$108,632</u>	<u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>												
<b><u>Drawing A-Additional Sump Pump and Cover</u></b>													
10	Extra rough in material installation for additional pump	6	Ea.	48	\$2,312	\$0	\$0	\$0	\$2,312	\$0	\$0	\$2,312	<b>\$2,312</b>
				8	385.40				385.40			385.40	
11	Delete SP1 to SP10 Sump Pumps	(1)	LS		\$0	(\$11,485)	\$0	\$0	(\$689)	(\$12,174)	\$0	(\$2,739)	<b>(\$14,913)</b>
						11,485.00		689.10	12,174.10		2,739.17	14,913.27	
12	Add SP1 to SP16 Sump Pumps	1	LS		\$0	\$42,525	\$0	\$0	\$2,552	\$45,077	\$0	\$10,142	<b>\$55,219</b>
						42,525.00		2,551.50	45,076.50		10,142.21	55,218.71	
13	Extra rough in material installation for additional pump	6	Ea.	108	\$5,203	\$0	\$0	\$0	\$5,203	\$0	\$0	\$5,203	<b>\$5,203</b>
				18	867.15				867.15			867.15	
	Subtotal				\$7,515	\$31,040	\$0	\$0	\$1,862	\$40,418	\$0	\$7,403	<b>\$47,821</b>
	Taxes				\$0	\$1,862	\$0	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$7,403	\$0	\$0					
	<b>TOTAL Drawing A-Additional Sump Pump and Cover</b>	<b>156</b>			<b>\$7,515</b>	<b>\$40,305</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,862</b>	<b>\$40,418</b>	<b>\$0</b>	<b>\$7,403</b>	<b>\$47,821</b>
	<b>1.00 LS</b>												

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$108,632</u>      <u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>  <u>\$31,263</u>      <u>Drawing B</u></p>												
<b><u>B1 Delete all storm line to PIT SP3 and SP4</u></b>												
14	Combination Y & 1/8 bend, plastic, PVC, socket joint, 8", type DWV, schedule 40	(4) Ea.	(15)	(\$696)	(\$988)	\$0	\$0	(\$59)	(\$1,743)	(\$270)	(\$272)	<b>(\$2,286)</b>
			3.871	174.05	247.00		14.82	435.87	67.56	68.04	571.47	
15	Elbow, 45 Deg., plastic, PVC, white, socket joint, 8", schedule 40	(4) Ea.	(9)	(\$419)	(\$440)	\$0	\$0	(\$26)	(\$885)	(\$137)	(\$121)	<b>(\$1,144)</b>
			2.33	104.77	110.00		6.60	221.37	34.31	30.30	285.98	
16	Elbow, 90 Deg., plastic, PVC, white, socket joint, 8", schedule 40	(10) Ea.	(23)	(\$1,048)	(\$1,050)	\$0	\$0	(\$63)	(\$2,161)	(\$335)	(\$289)	<b>(\$2,785)</b>
			2.33	104.76	105.00		6.30	216.06	33.49	28.92	278.48	
17	Pipe, plastic, PVC, 4" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	(90) L.F.	(30)	(\$1,299)	(\$617)	\$0	\$0	(\$37)	(\$1,953)	(\$303)	(\$170)	<b>(\$2,425)</b>
			0.333	14.44	6.85		0.41	21.70	3.36	1.89	26.95	
18	Pipe, plastic, PVC, 6" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	(70) L.F.	(29)	(\$1,244)	(\$851)	\$0	\$0	(\$51)	(\$2,146)	(\$333)	(\$234)	<b>(\$2,713)</b>
			0.41	17.78	12.15		0.73	30.66	4.75	3.35	38.75	
19	Pipe, plastic, PVC, 8" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	(340) L.F.	(170)	(\$7,644)	(\$7,310)	\$0	\$0	(\$439)	(\$15,392)	(\$2,386)	(\$2,014)	<b>(\$19,792)</b>
			0.5	22.48	21.50		1.29	45.27	7.02	5.92	58.21	
20	Y, cast iron soil, hub and spigot, reducing, service weight, 8" x 4", includes lead & oakum joints	(7) Ea.	(22)	(\$1,028)	(\$700)	\$0	\$0	(\$42)	(\$1,770)	(\$274)	(\$193)	<b>(\$2,237)</b>
			3.2	146.85	100.00		6.00	252.85	39.19	27.55	319.59	
21	Y, cast iron soil, hub and spigot, reducing, service weight, 6" x 4", includes lead & oakum joints	(5) Ea.	(10)	(\$450)	(\$275)	\$0	\$0	(\$17)	(\$741)	(\$115)	(\$76)	<b>(\$932)</b>
			2	89.93	55.00		3.30	148.23	22.98	15.15	186.35	
	Subtotal			(\$13,828)	(\$12,230)	\$0	\$0	(\$734)	(\$26,792)	(\$4,153)	(\$3,369)	<b>(\$34,314)</b>
	Taxes			\$0	(\$734)	\$0	\$0					
	Subcontractor Markups			(\$2,143)	(\$2,009)	\$0	\$0					
	Prime Contractor Markups from 01 AA			\$0	(\$3,369)	\$0	\$0					
<b>TOTAL B1 Delete all storm line to PIT SP3 and SP4</b>		<b>(309)</b>		<b>(\$15,971)</b>	<b>(\$18,342)</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$734)</b>	<b>(\$26,792)</b>	<b>(\$4,153)</b>	<b>(\$3,369)</b>	<b>(\$34,314)</b>

**Vaughan Civic Centre**

Vaughan, Ontario

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**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$108,632</u>      <u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>  <u>\$31,263</u>      <u>Drawing B</u></p>												
<b><u>B2 Add holes</u></b>												
22	Drain, floor, X-heavy duty, cast iron, 15" diameter anti-tilt grate, 4", 5", 6" and 8" pipe size	3 Ea.	6	\$260	\$2,145	\$0	\$0	\$129	\$2,534	\$393	\$591	<b>\$3,517</b>
			2	86.71	715.00			42.90	844.61	130.91	196.96	1,172.49
	Subtotal			\$260	\$2,145	\$0	\$0	\$129	\$2,534	\$393	\$591	<b>\$3,517</b>
	Taxes			\$0	\$129	\$0	\$0					
	Subcontractor Markups			\$40	\$352	\$0	\$0					
	Prime Contractor Markups from 01 AA			\$0	\$591	\$0	\$0					
<b>TOTAL B2 Add holes</b>			<b>6</b>	<b>\$300</b>	<b>\$3,217</b>	<b>\$0</b>	<b>\$0</b>	<b>\$129</b>	<b>\$2,534</b>	<b>\$393</b>	<b>\$591</b>	<b>\$3,517</b>
<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$108,632</u>      <u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>  <u>\$31,263</u>      <u>Drawing B</u></p>												
<b><u>B3 Add new storm line</u></b>												
23	Pipe, plastic, PVC, 4" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	90 L.F.	30	\$1,299	\$617	\$0	\$0	\$37	\$1,953	\$303	\$170	<b>\$2,425</b>
			0.333	14.44	6.85			0.41	21.70	3.36	1.89	26.95
24	Elbow, 45 Deg., plastic, PVC, white, socket joint, 4", schedule 40	8 Ea.	7	\$305	\$133	\$0	\$0	\$8	\$446	\$69	\$37	<b>\$552</b>
			0.879	38.11	16.65			1.00	55.76	8.64	4.59	68.99
25	Tee, plastic, PVC, white, socket joint, 4", schedule 40	3 Ea.	4	\$172	\$57	\$0	\$0	\$3	\$232	\$36	\$16	<b>\$284</b>
			1.322	57.32	19.00			1.14	77.46	12.01	5.23	94.70
	Subtotal			\$1,776	\$807	\$0	\$0	\$48	\$2,631	\$408	\$222	<b>\$3,261</b>
	Taxes			\$0	\$48	\$0	\$0					
	Subcontractor Markups			\$275	\$133	\$0	\$0					
	Prime Contractor Markups from 01 AA			\$0	\$222	\$0	\$0					
<b>TOTAL B3 Add new storm line</b>			<b>41</b>	<b>\$2,052</b>	<b>\$1,210</b>	<b>\$0</b>	<b>\$0</b>	<b>\$48</b>	<b>\$2,631</b>	<b>\$408</b>	<b>\$222</b>	<b>\$3,261</b>
<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$108,632</u>      <u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>  <u>\$31,263</u>      <u>Drawing B</u></p>												
<b><u>B4 Add Storm line north of grid line 1</u></b>												
26	Pipe, plastic, PVC, 12" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	150 L.F.	86	\$3,851	\$5,475	\$0	\$0	\$329	\$9,655	\$1,496	\$1,508	<b>\$12,659</b>
			0.571	25.67	36.50			2.19	64.36	9.98	10.06	84.39

**Vaughan Civic Centre**

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$108,632</u>      <u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>  <u>\$31,263</u>      <u>Drawing B</u></p>													
<b><u>B4 Add Storm line north of grid line 1</u></b>													
27	Pipe, plastic, PVC, 8" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	90	L.F.	45	\$2,023	\$1,935	\$0	\$0	\$116	\$4,074	\$632	\$533	<b>\$5,239</b>
				0.5	22.48	21.50		1.29	45.27	7.02	5.92	58.21	
28	Pipe, plastic, PVC, 4" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	40	L.F.	13	\$578	\$274	\$0	\$0	\$16	\$868	\$135	\$75	<b>\$1,078</b>
				0.333	14.44	6.85		0.41	21.70	3.36	1.89	26.95	
29	Elbow, 45 Deg., plastic, PVC, white, socket joint, 4", schedule 40	12	Ea.	11	\$457	\$200	\$0	\$0	\$12	\$669	\$104	\$55	<b>\$828</b>
				0.879	38.11	16.65		1.00	55.76	8.64	4.59	68.99	
30	Elbow, 90 Deg., plastic, PVC, white, socket joint, 4", schedule 40	14	Ea.	12	\$534	\$179	\$0	\$0	\$11	\$724	\$112	\$49	<b>\$885</b>
				0.879	38.11	12.80		0.77	51.68	8.01	3.53	63.22	
31	Reducer, plastic, PVC, bushing, socket joint, 8" x 4", type DWV, schedule 40	1	Ea.	2	\$106	\$80	\$0	\$0	\$5	\$190	\$29	\$22	<b>\$241</b>
				2.353	105.80	79.50		4.77	190.07	29.46	21.90	241.43	
32	Reducer, plastic, PVC, bushing, socket joint, 12" x 4", type DWV, schedule 40	1	Ea.	4	\$180	\$273	\$0	\$0	\$16	\$470	\$73	\$75	<b>\$618</b>
				4	179.85	273.30		16.40	469.55	72.78	75.28	617.61	
33	14" Hole	1	Ea.	2	\$87	\$1,200	\$0	\$0	\$72	\$1,359	\$211	\$331	<b>\$1,900</b>
				2	86.71	1,200.00		72.00	1,358.71	210.60	330.56	1,899.87	
34	Y, cast iron soil, hub and spigot, reducing, service weight, 8" x 4", includes lead & oakum joints	6	Ea.	19	\$881	\$600	\$0	\$0	\$36	\$1,517	\$235	\$165	<b>\$1,918</b>
				3.2	146.85	100.00		6.00	252.85	39.19	27.55	319.59	
35	Y, cast iron soil, hub and spigot, reducing, service weight, 12" x 4", includes lead & oakum joints	7	Ea.	25	\$1,142	\$2,135	\$0	\$0	\$128	\$3,405	\$528	\$588	<b>\$4,521</b>
				3.556	163.19	305.00		18.30	486.49	75.41	84.02	645.91	

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$108,632</u>      <u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>  <u>\$31,263</u>      <u>Drawing B</u></p>													
<b><u>B4 Add Storm line north of grid line 1</u></b>													
36	Y, cast iron soil, hub and spigot, reducing, service weight, 12" x 8", includes lead & oakum joints	2	Ea.	8	\$367	\$750	\$0	\$0	\$45	\$1,162	\$180	\$207	<b>\$1,549</b>
				4	183.57	375.00			22.50	581.07	90.06	103.30	774.43
Subtotal					\$10,206	\$13,101	\$0	\$0	\$786	\$24,093	\$3,734	\$3,609	<b>\$31,436</b>
Taxes					\$0	\$786	\$0	\$0					
Subcontractor Markups					\$1,582	\$2,152	\$0	\$0					
Prime Contractor Markups from 01 AA					\$0	\$3,609	\$0	\$0					
<b>TOTAL B4 Add Storm line north of grid line 1</b>		<b>227</b>			<b>\$11,788</b>	<b>\$19,648</b>	<b>\$0</b>	<b>\$0</b>	<b>\$786</b>	<b>\$24,093</b>	<b>\$3,734</b>	<b>\$3,609</b>	<b>\$31,436</b>
<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$108,632</u>      <u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>  <u>\$31,263</u>      <u>Drawing B</u></p>													
<b><u>B5 Add Pipe from air intake shaft</u></b>													
37	Pipe, plastic, PVC, 4" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	16	L.F.	5	\$231	\$110	\$0	\$0	\$7	\$347	\$54	\$30	<b>\$431</b>
				0.333	14.44	6.85			0.41	21.70	3.36	1.89	26.95
Subtotal					\$231	\$110	\$0	\$0	\$7	\$347	\$54	\$30	<b>\$431</b>
Taxes					\$0	\$7	\$0	\$0					
Subcontractor Markups					\$36	\$18	\$0	\$0					
Prime Contractor Markups from 01 AA					\$0	\$30	\$0	\$0					
<b>TOTAL B5 Add Pipe from air intake shaft</b>		<b>5</b>			<b>\$267</b>	<b>\$164</b>	<b>\$0</b>	<b>\$0</b>	<b>\$7</b>	<b>\$347</b>	<b>\$54</b>	<b>\$30</b>	<b>\$431</b>
<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$108,632</u>      <u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>  <u>\$31,263</u>      <u>Drawing B</u></p>													
<b><u>B6 Add piping from 3 elevator to PIT</u></b>													
38	Pipe, plastic, PVC, 4" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	150	L.F.	50	\$2,166	\$1,028	\$0	\$0	\$62	\$3,255	\$505	\$283	<b>\$4,042</b>
				0.333	14.44	6.85			0.41	21.70	3.36	1.89	26.95

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$108,632</u>      <u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>  <u>\$31,263</u>      <u>Drawing B</u></p>												
<b><u>B6 Add piping from 3 elevator to PIT</u></b>												
39	Elbow, 45 Deg., plastic, PVC, white, socket joint, 4", schedule 40	12 Ea.	11 0.879	\$457 38.11	\$200 16.65	\$0	\$0	\$12 1.00	\$669 55.76	\$104 8.64	\$55 4.59	<b>\$828</b> 68.99
Subtotal				\$2,623	\$1,227	\$0	\$0	\$74	\$3,924	\$608	\$338	<b>\$4,870</b>
Taxes				\$0	\$74	\$0	\$0					
Subcontractor Markups				\$407	\$202	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$338	\$0	\$0					
<b>TOTAL B6 Add piping from 3 elevator to PIT</b>		<b>60</b>		<b>\$3,030</b>	<b>\$1,841</b>	<b>\$0</b>	<b>\$0</b>	<b>\$74</b>	<b>\$3,924</b>	<b>\$608</b>	<b>\$338</b>	<b>\$4,870</b>
<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$108,632</u>      <u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>  <u>\$31,263</u>      <u>Drawing B</u></p>												
<b><u>B7 Add underground piping to janitor room 098</u></b>												
40	Pipe, plastic, PVC, 4" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	24 L.F.	8 0.333	\$347 14.44	\$164 6.85	\$0	\$0	\$10 0.41	\$521 21.70	\$81 3.36	\$45 1.89	<b>\$647</b> 26.95
41	Pipe, plastic, PVC, 3" diameter, DWV, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	10 L.F.	3 0.302	\$131 13.09	\$34 3.42	\$0	\$0	\$2 0.20	\$167 16.72	\$26 2.59	\$9 0.94	<b>\$203</b> 20.25
42	Traps, PVC, P trap, solvent weld joint, 3" pipe size, type DWV	1 Ea.	1 0.533	\$26 25.68	\$28 28.00	\$0	\$0	\$2 1.68	\$55 55.36	\$9 8.58	\$8 7.71	<b>\$72</b> 71.65
43	Traps, PVC, P trap, solvent weld joint, 4" pipe size, type DWV	1 Ea.	1 0.571	\$28 27.51	\$63 62.50	\$0	\$0	\$4 3.75	\$94 93.76	\$15 14.53	\$17 17.22	<b>\$126</b> 125.51
44	Tee, plastic, PVC, white, socket joint, 4", schedule 40	1 Ea.	1 1.322	\$57 57.32	\$19 19.00	\$0	\$0	\$1 1.14	\$77 77.46	\$12 12.01	\$5 5.23	<b>\$95</b> 94.70
45	Reducer, plastic, PVC, bushing, socket joint, 4" x 2", type DWV, schedule 40	1 Ea.	1 0.879	\$38 38.11	\$14 13.80	\$0	\$0	\$1 0.83	\$53 52.74	\$8 8.17	\$4 3.80	<b>\$65</b> 64.71
46	Tee, plastic, PVC, white, socket joint, 3", schedule 40	1 Ea.	1 1.053	\$46 45.66	\$11 10.50	\$0	\$0	\$1 0.63	\$57 56.79	\$9 8.80	\$3 2.89	<b>\$68</b> 68.48

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<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$108,632</u>      <u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>  <u>\$31,263</u>      <u>Drawing B</u></p>												
<b><u>B7 Add underground piping to janitor room 098</u></b>												
47	Elbow, 90 Deg., plastic, PVC, white, socket joint, 1-1/2", schedule 40	4 Ea.	2 0.4	\$77 19.27	\$5 1.25	\$0	\$0	\$0 0.07	\$82 20.59	\$13 3.19	\$1 0.34	<b>\$97</b> 24.13
48	Pipe, plastic, PVC, 1-1/2" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	9 L.F.	2 0.222	\$96 10.69	\$19 2.07	\$0	\$0	\$1 0.12	\$116 12.89	\$18 2.00	\$5 0.57	<b>\$139</b> 15.46
49	Drain, floor, heavy duty, cast iron, 12" diameter anti-tilt grate, 2", 3", 4", 5" and 6" pipe size	1 Ea.	2 1.6	\$69 69.37	\$59 58.50	\$0	\$0	\$4 3.51	\$131 131.38	\$20 20.36	\$16 16.11	<b>\$168</b> 167.86
Subtotal				\$914	\$415	\$0	\$0	\$25	\$1,354	\$210	\$114	<b>\$1,678</b>
Taxes				\$0	\$25	\$0	\$0					
Subcontractor Markups				\$142	\$68	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$114	\$0	\$0					
<b>TOTAL B7 Add underground piping to janitor room 098</b>		<b>21</b>		<b>\$1,056</b>	<b>\$622</b>	<b>\$0</b>	<b>\$0</b>	<b>\$25</b>	<b>\$1,354</b>	<b>\$210</b>	<b>\$114</b>	<b>\$1,678</b>

<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$108,632</u>      <u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>  <u>\$31,263</u>      <u>Drawing B</u></p>												
<b><u>B8 Add underground piping to FD</u></b>												
50	Pipe, plastic, PVC, 4" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	40 L.F.	13 0.333	\$578 14.44	\$274 6.85	\$0	\$0	\$16 0.41	\$868 21.70	\$135 3.36	\$75 1.89	<b>\$1,078</b> 26.95
51	Tee, plastic, PVC, white, socket joint, 4", schedule 40	2 Ea.	3 1.322	\$115 57.32	\$38 19.00	\$0	\$0	\$2 1.14	\$155 77.46	\$24 12.01	\$10 5.23	<b>\$189</b> 94.70
52	Elbow, 45 Deg., plastic, PVC, white, socket joint, 4", schedule 40	1 Ea.	1 0.879	\$38 38.11	\$17 16.65	\$0	\$0	\$1 1.00	\$56 55.76	\$9 8.64	\$5 4.59	<b>\$69</b> 68.99
53	Elbow, 90 Deg., plastic, PVC, white, socket joint, 4", schedule 40	1 Ea.	1 0.879	\$38 38.11	\$13 12.80	\$0	\$0	\$1 0.77	\$52 51.68	\$8 8.01	\$4 3.53	<b>\$63</b> 63.21

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<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$108,632</u>      <u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>  <u>\$31,263</u>      <u>Drawing B</u></p>												
<b><u>B8 Add underground piping to FD</u></b>												
54	Drain, floor, heavy duty, cast iron, 12" diameter anti-tilt grate, 2", 3", 4", 5" and 6" pipe size	1 Ea.	2 1.6	\$69 69.37	\$62 61.64	\$0	\$0	\$4 3.70	\$135 134.71	\$21 20.88	\$17 16.98	<b>\$173</b> 172.57
Subtotal				\$838	\$403	\$0	\$0	\$24	\$1,265	\$196	\$111	<b>\$1,572</b>
Taxes				\$0	\$24	\$0	\$0					
Subcontractor Markups				\$130	\$66	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$111	\$0	\$0					
<b>TOTAL B8 Add underground piping to FD</b>			<b>19</b>	<b>\$968</b>	<b>\$605</b>	<b>\$0</b>	<b>\$0</b>	<b>\$24</b>	<b>\$1,265</b>	<b>\$196</b>	<b>\$111</b>	<b>\$1,572</b>
<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$108,632</u>      <u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>  <u>\$31,263</u>      <u>Drawing B</u></p>												
<b><u>B9 Weeper grid J</u></b>												
55	Pipe, cast iron soil, one hub, service weight, 6" diameter, lead and oakum joints 10' O.C., includes hangers 5' O.C.	65 L.F.	21 0.329	\$962 14.79	\$1,034 15.90	\$0	\$0	\$62 0.95	\$2,057 31.65	\$319 4.91	\$285 4.38	<b>\$2,661</b> 40.93
56	Combination Y and 1/8 bend, cast iron soil, hub and spigot, service weight, 6", gasket joint, includes gaskets	4 Ea.	9 2.182	\$392 98.11	\$472 118.00	\$0	\$0	\$28 7.08	\$893 223.19	\$138 34.59	\$130 32.51	<b>\$1,161</b> 290.29
57	Elbow, 90 Deg., cast iron soil, hub and spigot, short sweep, service weight, 6", includes lead & oakum joints	8 Ea.	11 1.412	\$508 63.49	\$488 61.00	\$0	\$0	\$29 3.66	\$1,025 128.15	\$159 19.86	\$134 16.80	<b>\$1,319</b> 164.81
58	Coupling, standard (by CISPI mfrs.), cast iron soil, no hub, 6"	32 Ea.	19 0.6	\$863 26.98	\$720 22.50	\$0	\$0	\$43 1.35	\$1,626 50.83	\$252 7.88	\$198 6.20	<b>\$2,077</b> 64.90
59	Sleeve, wall, ductile iron, 8", includes rubber gasket seal	2 Ea.	4 2	\$193 96.35	\$1,570 785.00	\$0	\$0	\$94 47.10	\$1,857 928.45	\$288 143.91	\$432 216.24	<b>\$2,577</b> 1,288.60
60	Misc. Material	1 LS	5 5	\$241 240.87	\$150 150.00	\$0	\$0	\$9 9.00	\$400 399.87	\$62 61.98	\$41 41.32	<b>\$503</b> 503.17
61	Heat tracing	0.70 M.L.	11 15.533	\$697 995.61	\$163 233.00	\$0	\$0	\$10 13.98	\$870 1,242.59	\$135 192.60	\$45 64.18	<b>\$1,050</b> 1,499.38



**Vaughan Civic Centre**

**EXPANDED - DETAIL REPORT**

Vaughan, Ontario

U. S. Cost

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<p><u>\$1,424.172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$108.632</u>      <u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>  <u>\$31.263</u>      <u>Drawing B</u></p>													
<b><u>B9 Weeper grid J</u></b>													
62	Insulation, pipe covering (price copper tube one size less than I.P.S.), fiberglass with all service jacket, 2-1/2" wall, 6" iron pipe size	65	L.F.	12	\$596	\$497	\$0	\$0	\$30	\$1,123	\$174	\$137	\$1,434
				0.178	9.16	7.65		0.46	17.27	2.68	2.11	22.06	
	Subtotal				\$4,451	\$5,094	\$0	\$0	\$306	\$9,851	\$1,527	\$1,403	\$12,781
	Taxes				\$0	\$306	\$0	\$0					
	Subcontractor Markups				\$690	\$837	\$0	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$1,403	\$0	\$0					
<b>TOTAL B9 Weeper grid J</b>		<b>92</b>			<b>\$5,141</b>	<b>\$7,640</b>	<b>\$0</b>	<b>\$0</b>	<b>\$306</b>	<b>\$9,851</b>	<b>\$1,527</b>	<b>\$1,403</b>	<b>\$12,781</b>

<p><u>\$1,424.172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$108.632</u>      <u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>  <u>\$31.263</u>      <u>Drawing B</u></p>													
<b><u>Excavation and backfill</u></b>													
63	Excavating, trench or continuous footing, common earth, 3 C.Y. excavator, 14 to20' deep, includes trench box, excludes dewatering	726	B.C.	12	\$592	\$0	\$1,732	\$0	\$0	\$2,324	\$360	\$0	\$2,684
				0.017	0.81		2.39		3.20	0.50		3.70	
64	Backfill, bulk, 6" to 12" lifts, dozer backfilling	832	E.C.	12	\$575	\$0	\$1,478	\$0	\$0	\$2,053	\$318	\$0	\$2,371
				0.015	0.69		1.78		2.47	0.38		2.85	
65	Compaction, 3 passes, 12" lifts, riding, sheepsfoot or wobbly wheel roller	832	E.C.	2	\$115	\$0	\$199	\$0	\$0	\$314	\$49	\$0	\$363
				0.003	0.14		0.24		0.38	0.06		0.44	
66	Hauling, excavated or borrow material, loose cubic yards, 3 mile round trip, 2.1 loads/hour, 6 C.Y. dump truck, highway haulers, excludes loading	75	L.C.	8	\$184	\$0	\$345	\$0	\$0	\$530	\$82	\$0	\$612
				0.1	2.46		4.61		7.06	1.09		8.15	
	Subtotal				\$1,466	\$0	\$3,754	\$0	\$0	\$5,220	\$809	\$0	\$6,029
	Subcontractor Markups				\$227	\$0	\$582	\$0					
<b>TOTAL Excavation and backfill</b>		<b>35</b>			<b>\$1,693</b>	<b>\$0</b>	<b>\$4,336</b>	<b>\$0</b>	<b>\$0</b>	<b>\$5,220</b>	<b>\$809</b>	<b>\$0</b>	<b>\$6,029</b>

<p><u>\$1,424.172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$1,424.172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$108.632</u>      <u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u></p>													
<b><u>Drawing C</u></b>													
67	Drain, floor, cast iron, epoxy coated, 2", 3" and 4" pipe size	1	Ea.	1	\$50	\$188	\$0	\$0	\$11	\$249	\$39	\$52	\$339
				1.143	49.56	188.00		11.28	248.84	38.57	51.79	339.20	

**Vaughan Civic Centre**

Vaughan, Ontario

**EXPANDED - DETAIL REPORT**

U. S. Cost

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$108,632</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>											
<b><u>Drawing C</u></b>												
68 Pipe, plastic, PVC, 4" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	40	L.F.	13 0.333	\$578 14.44	\$274 6.85	\$0	\$0	\$16 0.41	\$868 21.70	\$135 3.36	\$75 1.89	<b>\$1,078</b> 26.95
69 Traps, PVC, P trap, solvent weld joint, 4" pipe size, type DWV	1	Ea.	1 0.571	\$28 27.51	\$63 62.50	\$0	\$0	\$4 3.75	\$94 93.76	\$15 14.53	\$17 17.22	<b>\$126</b> 125.51
70 Tee, plastic, PVC, white, socket joint, 4", schedule 40	2	Ea.	3 1.322	\$115 57.32	\$38 19.00	\$0	\$0	\$2 1.14	\$155 77.46	\$24 12.01	\$10 5.23	<b>\$189</b> 94.70
71 Reducer, plastic, PVC, bushing, socket joint, 4" x 2", type DWV, schedule 40	1	Ea.	1 0.879	\$38 38.11	\$14 13.80	\$0	\$0	\$1 0.83	\$53 52.74	\$8 8.17	\$4 3.80	<b>\$65</b> 64.71
72 Elbow, 45 Deg., plastic, PVC, white, socket joint, 4", schedule 40	1	Ea.	1 0.879	\$38 38.11	\$17 16.65	\$0	\$0	\$1 1.00	\$56 55.76	\$9 8.64	\$5 4.59	<b>\$69</b> 68.99
73 Pipe, plastic, PVC, 1-1/2" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	6	L.F.	1 0.222	\$64 10.70	\$12 2.07	\$0	\$0	\$1 0.12	\$77 12.89	\$12 2.00	\$3 0.57	<b>\$93</b> 15.46
74 Misc Material	1	LS	2 2	\$96 96.35	\$30 30.00	\$0	\$0	\$2 1.80	\$128 128.15	\$20 19.86	\$8 8.26	<b>\$156</b> 156.28
Subtotal				\$1,006	\$635	\$0	\$0	\$38	\$1,679	\$260	\$175	<b>\$2,115</b>
Taxes				\$0	\$38	\$0	\$0					
Subcontractor Markups				\$156	\$104	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$175	\$0	\$0					
<b>TOTAL Drawing C</b>	<b>23</b>			<b>\$1,162</b>	<b>\$953</b>	<b>\$0</b>	<b>\$0</b>	<b>\$38</b>	<b>\$1,679</b>	<b>\$260</b>	<b>\$175</b>	<b>\$2,115</b>

\$1,424,172  
\$1,424,172  
\$108,632

VAUGHN CITY HALL CHANGE ORDERS  
VAUGHN CITY HALL CHANGE ORDERS  
CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM

**Drawing D**

75 Pipe, plastic, PVC, 4" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	220	L.F.	73 0.333	\$3,176 14.44	\$1,507 6.85	\$0	\$0	\$90 0.41	\$4,774 21.70	\$740 3.36	\$415 1.89	<b>\$5,929</b> 26.95
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**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$108,632</u>	<u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>												
<b><u>Drawing D</u></b>													
76	Elbow, 45 Deg., plastic, PVC, white, socket joint, 4", schedule 40	20	Ea.	18	\$762	\$333	\$0	\$0	\$20	\$1,115	\$173	\$92	<b>\$1,380</b>
				0.879	38.11	16.65		1.00	55.76	8.64	4.59	68.99	
77	Elbow, 90 Deg., plastic, PVC, white, socket joint, 4", schedule 40	4	Ea.	4	\$152	\$51	\$0	\$0	\$3	\$207	\$32	\$14	<b>\$253</b>
				0.879	38.11	12.80		0.77	51.68	8.01	3.53	63.21	
78	Tee, plastic, PVC, white, socket joint, 4", schedule 40	1	Ea.	1	\$57	\$19	\$0	\$0	\$1	\$77	\$12	\$5	<b>\$95</b>
				1.322	57.32	19.00		1.14	77.46	12.01	5.23	94.70	
79	Excavating, trench or continuous footing, common earth, 3 C.Y. excavator, 14 to20' deep, includes trench box, excludes dewatering	244	B.C.	4	\$199	\$0	\$582	\$0	\$0	\$781	\$121	\$0	<b>\$902</b>
				0.017	0.81		2.39		3.20	0.50		3.70	
80	Backfill, bulk, 6" to 12" lifts, dozer backfilling	285	E.C.	4	\$197	\$0	\$506	\$0	\$0	\$703	\$109	\$0	<b>\$812</b>
				0.015	0.69		1.78		2.47	0.38		2.85	
81	Compaction, 3 passes, 12" lifts, riding, sheepsfoot or wobbly wheel roller	285	E.C.	1	\$39	\$0	\$68	\$0	\$0	\$108	\$17	\$0	<b>\$124</b>
				0.003	0.14		0.24		0.38	0.06		0.44	
82	Hauling, excavated or borrow material, loose cubic yards, 3 mile round trip, 2.1 loads/hour, 6 C.Y. dump truck, highway haulers, excludes loading	21	L.C.	2	\$52	\$0	\$97	\$0	\$0	\$148	\$23	\$0	<b>\$171</b>
				0.1	2.46		4.61		7.06	1.09		8.15	
83	Y, cast iron soil, hub and spigot, reducing, service weight, 15" x 4", includeslead & oakum joints	1	Ea.	5	\$210	\$925	\$0	\$0	\$56	\$1,190	\$184	\$255	<b>\$1,630</b>
				4.571	209.77	925.00		55.50	1,190.27	184.49	254.81	1,629.57	
84	Misc Material	1	LS	8	\$385	\$120	\$0	\$0	\$7	\$513	\$79	\$33	<b>\$625</b>
				8	385.40	120.00		7.20	512.60	79.45	33.06	625.11	
	Subtotal				\$5,230	\$2,955	\$1,253	\$0	\$177	\$9,616	\$1,490	\$814	<b>\$11,921</b>
	Taxes				\$0	\$177	\$0	\$0					
	Subcontractor Markups				\$811	\$486	\$194	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$814	\$0	\$0					
<b>TOTAL Drawing D</b>		<b>120</b>			<b>\$6,041</b>	<b>\$4,432</b>	<b>\$1,447</b>	<b>\$0</b>	<b>\$177</b>	<b>\$9,616</b>	<b>\$1,490</b>	<b>\$814</b>	<b>\$11,921</b>

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$108,632</u>	<u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>												
<b><u>Drawing E</u></b>													
85	Excavating, trench or continuous footing, common earth, 3 C.Y. excavator, 14 to20' deep, includes trench box, excludes dewatering	1,074	B.C.	18	\$876	\$0	\$2,562	\$0	\$0	\$3,438	\$533	\$0	\$3,971
				0.017	0.81		2.39		3.20	0.50		3.70	
86	Backfill, bulk, 6" to 12" lifts, dozer backfilling	1,261	E.C.	19	\$872	\$0	\$2,240	\$0	\$0	\$3,111	\$482	\$0	\$3,594
				0.015	0.69		1.78		2.47	0.38		2.85	
87	Compaction, 3 passes, 12" lifts, riding, sheepsfoot or wobbly wheel roller	1,261	E.C.	4	\$174	\$0	\$301	\$0	\$0	\$476	\$74	\$0	\$549
				0.003	0.14		0.24		0.38	0.06		0.44	
88	Hauling, excavated or borrow material, loose cubic yards, 3 mile round trip, 2.1 loads/hour, 6 C.Y. dump truck, highway haulers, excludes loading	82	L.C.	8	\$201	\$0	\$378	\$0	\$0	\$579	\$90	\$0	\$669
				0.1	2.46		4.61		7.06	1.09		8.15	
	Subtotal				\$2,123	\$0	\$5,481	\$0	\$0	\$7,604	\$1,179	\$0	\$8,783
	Subcontractor Markups				\$329	\$0	\$850	\$0					
<b>TOTAL Drawing E</b>		<b>49</b>			<b>\$2,452</b>	<b>\$0</b>	<b>\$6,331</b>	<b>\$0</b>	<b>\$0</b>	<b>\$7,604</b>	<b>\$1,179</b>	<b>\$0</b>	<b>\$8,783</b>

\$1,424,172  
\$1,424,172  
\$108,632

VAUGHN CITY HALL CHANGE ORDERS  
VAUGHN CITY HALL CHANGE ORDERS  
CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM

**Drawing F**

89	Pipe, cast iron soil, single hub, service weight, 3" diameter, push-on gasket joints 10' OC, includes hangers 5' O.C.	20	L.F.	5	\$220	\$155	\$0	\$0	\$9	\$385	\$60	\$43	\$487
				0.254	11.01	7.75		0.47	19.23	2.98	2.13	24.34	
90	Coupling, standard (by CISPI mfrs.), cast iron soil, no hub, 3"	4	Ea.	2	\$73	\$30	\$0	\$0	\$2	\$105	\$16	\$8	\$130
				0.421	18.25	7.55		0.45	26.26	4.07	2.08	32.41	
91	Misc Material	1	LS	2	\$96	\$15	\$0	\$0	\$1	\$112	\$17	\$4	\$134
				2	96.35	15.00		0.90	112.25	17.40	4.13	133.78	
92	Delete AD-1	(3)	Ea.	(3)	(\$149)	(\$419)	\$0	\$0	(\$25)	(\$592)	(\$92)	(\$115)	(\$799)
				1.143	49.56	139.50		8.37	197.43	30.60	38.43	266.46	

**Vaughan Civic Centre**

Vaughan, Ontario

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<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$108,632</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>												
<b><u>Drawing F</u></b>													
93 Add PD-1	3	Ea.	3	\$149	\$276	\$0	\$0	\$17	\$441	\$68	\$76	\$586	
			1.143	49.56	92.00			5.52	147.08	22.80	25.34	195.22	
Subtotal				\$390	\$58	\$0	\$0	\$3	\$451	\$70	\$16	\$537	
Taxes				\$0	\$3	\$0	\$0						
Subcontractor Markups				\$60	\$9	\$0	\$0						
Prime Contractor Markups from 01 AA				\$0	\$16	\$0	\$0						
<b>TOTAL Drawing F</b>				<b>9</b>	<b>\$450</b>	<b>\$87</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3</b>	<b>\$451</b>	<b>\$70</b>	<b>\$16</b>	<b>\$537</b>
<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$108,632</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>												
<b><u>Drawing G</u></b>													
94 Drain, floor, cast iron, epoxy coated, 2", 3" and 4" pipe size	1	Ea.	1	\$50	\$188	\$0	\$0	\$11	\$249	\$39	\$52	\$339	
			1.143	49.56	188.00			11.28	248.84	38.57	51.79	339.20	
95 Pipe, cast iron soil, single hub, service weight, 3" diameter, push-on gasket joints 10' OC, includes hangers 5' O.C.	10	L.F.	3	\$110	\$78	\$0	\$0	\$5	\$192	\$30	\$21	\$243	
			0.254	11.01	7.75			0.47	19.23	2.98	2.13	24.34	
96 Coupling, standard (by CISPI mfrs.), cast iron soil, no hub, 3"	2	Ea.	1	\$37	\$15	\$0	\$0	\$1	\$53	\$8	\$4	\$65	
			0.421	18.25	7.55			0.45	26.26	4.07	2.08	32.41	
97 Misc Material	1	LS	2	\$96	\$12	\$0	\$0	\$1	\$109	\$17	\$3	\$129	
			2	96.35	12.00			0.72	109.07	16.91	3.31	129.28	
Subtotal				\$293	\$293	\$0	\$0	\$18	\$603	\$93	\$81	\$777	
Taxes				\$0	\$18	\$0	\$0						
Subcontractor Markups				\$45	\$48	\$0	\$0						
Prime Contractor Markups from 01 AA				\$0	\$81	\$0	\$0						
<b>TOTAL Drawing G</b>				<b>7</b>	<b>\$338</b>	<b>\$439</b>	<b>\$0</b>	<b>\$0</b>	<b>\$18</b>	<b>\$603</b>	<b>\$93</b>	<b>\$81</b>	<b>\$777</b>

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<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$108,632</u>	<u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>												
<b><u>Drawing H</u></b>													
98	Pipe, cast iron soil, no hub, 4" diameter, includes couplings 10' O.C., hangers 5' O.C.	70	L.F.	19	\$838	\$676	\$0	\$0	\$41	\$1,554	\$241	\$186	<b>\$1,981</b>
				0.276	11.97	9.65		0.58	22.20	3.44	2.66	28.29	
99	Combination Y and 1/8 bend, reducing, cast iron soil, hub and spigot, service weight, 6" x 4", includes lead & oakum joints	1	Ea.	2	\$98	\$71	\$0	\$0	\$4	\$173	\$27	\$20	<b>\$220</b>
				2.182	98.11	71.00		4.26	173.37	26.87	19.56	219.80	
100	Elbow, 90 Deg., cast iron soil, hub and spigot, short sweep, service weight, 4", includes lead & oakum joints	5	Ea.	6	\$267	\$150	\$0	\$0	\$9	\$426	\$66	\$41	<b>\$533</b>
				1.231	53.37	30.00		1.80	85.17	13.20	8.26	106.64	
101	Reducer, cast iron soil, hub and spigot, service weight, 4" x 3", includes lead & oakum joints	2	Ea.	2	\$99	\$29	\$0	\$0	\$2	\$129	\$20	\$8	<b>\$157</b>
				1.143	49.56	14.30		0.86	64.72	10.03	3.94	78.69	
102	Combination Y and 1/8 bend, reducing, cast iron soil, hub and spigot, service weight, 8" x 4", includes lead & oakum joints	1	Ea.	3	\$147	\$118	\$0	\$0	\$7	\$272	\$42	\$33	<b>\$347</b>
				3.2	146.85	118.00		7.08	271.93	42.15	32.51	346.58	
103	Tee, cast iron soil, hub and spigot, sanitary, service weight, 4", includes lead & oakum joints	1	Ea.	2	\$87	\$31	\$0	\$0	\$2	\$120	\$19	\$9	<b>\$147</b>
				2	86.71	31.00		1.86	119.57	18.53	8.54	146.64	
104	Reducer, cast iron soil, hub and spigot, service weight, 4" x 2", includes lead & oakum joints	1	Ea.	1	\$48	\$12	\$0	\$0	\$1	\$60	\$9	\$3	<b>\$73</b>
				1.103	47.82	11.55		0.69	60.06	9.31	3.18	72.56	
105	Coupling, cast iron soil, no hub, stainless steel, heavy duty, 8"	1	Ea.	1	\$45	\$47	\$0	\$0	\$3	\$94	\$15	\$13	<b>\$122</b>
				0.97	44.51	47.00		2.82	94.33	14.62	12.95	121.90	
106	Coupling, cast iron soil, no hub, stainless steel, heavy duty, 6"	1	Ea.	1	\$27	\$28	\$0	\$0	\$2	\$57	\$9	\$8	<b>\$73</b>
				0.6	26.98	28.00		1.68	56.66	8.78	7.71	73.16	
107	Coupling, cast iron soil, no hub, stainless steel, heavy duty, 4"	30	Ea.	15	\$631	\$347	\$0	\$0	\$21	\$998	\$155	\$95	<b>\$1,248</b>
				0.485	21.03	11.55		0.69	33.27	5.16	3.18	41.61	
108	Misc Material	1	LS	4	\$193	\$80	\$0	\$0	\$5	\$278	\$43	\$22	<b>\$343</b>
				4	192.70	80.00		4.80	277.50	43.01	22.04	342.55	

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$108,632</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>											
<b><u>Drawing H</u></b>												
109 Drain, floor, cast iron, epoxy coated, 2", 3" and 4" pipe size	(4)	Ea.	(5)	(\$198)	(\$752)	\$0	\$0	(\$45)	(\$995)	(\$154)	(\$207)	(\$1,357)
			1.143	49.56	188.00			11.28	248.84	38.57	51.79	339.20
Subtotal				\$2,280	\$835	\$0	\$0	\$50	\$3,165	\$491	\$230	\$3,886
Taxes				\$0	\$50	\$0	\$0					
Subcontractor Markups				\$353	\$137	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$230	\$0	\$0					
<b>TOTAL Drawing H</b>			<b>52</b>	<b>\$2,633</b>	<b>\$1,253</b>	<b>\$0</b>	<b>\$0</b>	<b>\$50</b>	<b>\$3,165</b>	<b>\$491</b>	<b>\$230</b>	<b>\$3,886</b>

<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$108,632</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>											
<b><u>Drawing I</u></b>												
110 Pipe, cast iron soil, no hub, 4" diameter, includes couplings 10' O.C., hangers 5' O.C.	10	L.F.	3	\$120	\$97	\$0	\$0	\$6	\$222	\$34	\$27	\$283
			0.276	11.97	9.65			0.58	22.20	3.44	2.66	28.30
111 Combination Y and 1/8 bend, reducing, cast iron soil, hub and spigot, service weight, 6" x 4", includes lead & oakum joints	1	Ea.	2	\$98	\$71	\$0	\$0	\$4	\$173	\$27	\$20	\$220
			2.182	98.11	71.00			4.26	173.37	26.87	19.56	219.80
112 Elbow, 90 Deg., cast iron soil, hub and spigot, short sweep, service weight, 4", includes lead & oakum joints	3	Ea.	4	\$160	\$90	\$0	\$0	\$5	\$256	\$40	\$25	\$320
			1.231	53.37	30.00			1.80	85.17	13.20	8.26	106.64
113 Reducer, cast iron soil, hub and spigot, service weight, 4" x 3", includes lead & oakum joints	1	Ea.	1	\$50	\$14	\$0	\$0	\$1	\$65	\$10	\$4	\$79
			1.143	49.56	14.30			0.86	64.72	10.03	3.94	78.69
114 Coupling, cast iron soil, no hub, stainless steel, heavy duty, 6"	1	Ea.	1	\$27	\$28	\$0	\$0	\$2	\$57	\$9	\$8	\$73
			0.6	26.98	28.00			1.68	56.66	8.78	7.71	73.16
115 Coupling, cast iron soil, no hub, stainless steel, heavy duty, 4"	10	Ea.	5	\$210	\$116	\$0	\$0	\$7	\$333	\$52	\$32	\$416
			0.485	21.03	11.55			0.69	33.27	5.16	3.18	41.61

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$108,632</u>	<u>CHANGE ORDER #10 REVISIONS TO UNDERSLAB PLUMBING SYSTEM</u>											
<b><u>Drawing I</u></b>												
116 Misc Material	1	LS	2	\$96	\$20	\$0	\$0	\$1	\$118	\$18	\$6	\$141
			2	96.35	20.00			1.20	117.55	18.22	5.51	141.28
Subtotal				\$761	\$435	\$0	\$0	\$26	\$1,222	\$189	\$120	\$1,532
Taxes				\$0	\$26	\$0	\$0					
Subcontractor Markups				\$118	\$72	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$120	\$0	\$0					
<b>TOTAL Drawing I</b>			<b>17</b>	<b>\$879</b>	<b>\$653</b>	<b>\$0</b>	<b>\$0</b>	<b>\$26</b>	<b>\$1,222</b>	<b>\$189</b>	<b>\$120</b>	<b>\$1,532</b>
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<b><u>CHANGE ORDER #11 DELETE UNDERSLAB VAPOR BARRIER</u></b>												
117 Vapor Retarders, building paper	(298.76)	Sq.	(65)	(\$3,624)	(\$4,511)	\$0	\$0	(\$271)	(\$8,406)	(\$1,303)	(\$1,243)	(\$10,952)
			0.216	12.13	15.10			0.91	28.14	4.36	4.16	36.66
Subtotal				(\$3,624)	(\$4,511)	\$0	\$0	(\$271)	(\$8,406)	(\$1,303)	(\$1,243)	(\$10,952)
Taxes				\$0	(\$271)	\$0	\$0					
Subcontractor Markups				(\$562)	(\$741)	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	(\$1,243)	\$0	\$0					
<b>TOTAL CHANGE ORDER #11 DELETE UNDERSLAB VAPOR BARRIER</b>			<b>(65)</b>	<b>(\$4,186)</b>	<b>(\$6,766)</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$271)</b>	<b>(\$8,406)</b>	<b>(\$1,303)</b>	<b>(\$1,243)</b>	<b>(\$10,952)</b>
<b>(29,876.00) SF</b>				<b>\$0.14</b>	<b>\$0.23</b>			<b>\$0.01</b>	<b>\$0.28</b>	<b>\$0.04</b>	<b>\$0.04</b>	<b>\$0.37</b>
				<i>Level Unit Cost--&gt;</i>								
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<b><u>CHANGE ORDER #52 WEEPING TILES AT CURB AT RAILWAY BERM</u></b>												
118 CHANGE ORDER #052	1	LS		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
							0.10		0.10			0.10
Memo: Unable to validate CHANGE ORDER #052 because of												
<b>TOTAL CHANGE ORDER #52 WEEPING TILES AT RAILWAY BERM</b>				<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
			<b>1.00</b>	<b>LS</b>								



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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<b><u>CHANGE ORDER #64 LEVEL 400 &amp; 500 CONCRETE CLARIFICATIONS</u></b>													
119	Reinforcing steel, in place, beams and girders, #25M to #55M, A615M, grade 300,incl labor for accessories, excl material for accessories	0.80	Met.	10	\$434	\$1,360	\$0	\$0	\$82	\$1,876	\$291	\$375	<b>\$2,541</b>
				13.064	543.08	1,700.00			102.00	2,345.07	363.49	468.30	3,176.86
120	Re-Detailing	4	HRS	4	\$280	\$0	\$0	\$0	\$280	\$0	\$0	\$0	<b>\$280</b>
				1	70.00				70.00				70.00
121	C.I.P. concrete forms	28	m2CA	39	\$2,184	\$784	\$0	\$0	\$47	\$3,015	\$467	\$216	<b>\$3,698</b>
				1.396	78.00	28.00			1.68	107.68	16.69	7.71	132.09
122	Structural concrete, placing	3.70	m3	5	\$274	\$130	\$64	\$0	\$8	\$475	\$74	\$36	<b>\$584</b>
				1.395	74.00	35.00	17.22		2.10	128.32	19.89	9.64	157.85
	Subtotal				\$3,172	\$2,274	\$64	\$0	\$136	\$5,646	\$832	\$626	<b>\$7,104</b>
	Taxes				\$0	\$136	\$0	\$0					
	Subcontractor Markups				\$448	\$374	\$10	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$626	\$0	\$0					
<b>TOTAL CHANGE ORDER #64 LEVEL 400 &amp; 500 CONCRETE CLARIFICATIONS</b>		<b>59</b>			<b>\$3,621</b>	<b>\$3,410</b>	<b>\$74</b>	<b>\$0</b>	<b>\$136</b>	<b>\$5,646</b>	<b>\$832</b>	<b>\$626</b>	<b>\$7,104</b>
<b>1.00 LS</b>													
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$3,027</u>	<u>CHANGE ORDER #72 INSTALLATION OF 6" DRAIN AT ROOM 077A</u>												
<b><u>Delete 3" Pipe</u></b>													
123	Pipe, plastic, PVC, 3" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	(60)	L.F.	(18)	(\$786)	(\$274)	\$0	\$0	(\$16)	(\$1,076)	(\$167)	(\$76)	<b>(\$1,319)</b>
				0.302	13.09	4.57			0.27	17.94	2.78	1.26	21.98
124	Combination Y and 1/8 bend, plastic, ABS, non-pressure, socket joint, 6" x 3", type DWV	(1)	Ea.	(1)	(\$57)	(\$29)	\$0	\$0	(\$2)	(\$88)	(\$14)	(\$8)	<b>(\$109)</b>
				1.322	57.32	28.59			1.72	87.63	13.58	7.88	109.08
125	Traps, PVC, P trap, solvent weld joint, 3" pipe size, type DWV	(1)	Ea.	(1)	(\$26)	(\$21)	\$0	\$0	(\$1)	(\$48)	(\$7)	(\$6)	<b>(\$61)</b>
				0.533	25.68	21.00			1.26	47.94	7.43	5.79	61.16
126	Combination Y and 1/8 bend, plastic, ABS, non-pressure, socket joint, 3", type DWV	(4)	Ea.	(5)	(\$200)	(\$58)	\$0	\$0	(\$3)	(\$261)	(\$41)	(\$16)	<b>(\$318)</b>
				1.151	49.91	14.55			0.87	65.33	10.13	4.01	79.46

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<u>\$1,424.172</u> <u>\$1,424.172</u> <u>\$3,027</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #72 INSTALLATION OF 6" DRAIN AT ROOM 077A</u>											
<b>Delete 3" Pipe</b>												
127	Elbow, 90 Deg., plastic, PVC, white, socket joint, 3", schedule 40	(1) Ea.	(1) 0.699	(\$30) 30.31	(\$8) 7.95	\$0	\$0	\$0 0.48	(\$39) 38.74	(\$6) 6.00	(\$2) 2.19	(\$47) 46.93
128	Combination Y and 1/8 bend, plastic, ABS, non-pressure, socket joint, 3" x 1-1/2", type DWV	(1) Ea.	(1) 1.032	(\$45) 44.74	(\$15) 14.50	\$0	\$0	(\$1) 0.87	(\$60) 60.11	(\$9) 9.32	(\$4) 3.99	(\$73) 73.42
129	Drain, floor, acid resistant, PVC, 2", 3" and 4" pipe size	(2) Ea.	(2) 1	(\$87) 43.35	(\$420) 210.00	\$0	\$0	(\$25) 12.60	(\$532) 265.95	(\$82) 41.22	(\$116) 57.85	(\$730) 365.03
Subtotal				(\$1,230)	(\$824)	\$0	\$0	(\$49)	(\$2,104)	(\$326)	(\$227)	(\$2,657)
Taxes				\$0	(\$49)	\$0	\$0					
Subcontractor Markups				(\$191)	(\$135)	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	(\$227)	\$0	\$0					
<b>(1.00) LS</b>		<b>TOTAL Delete 3" Pipe</b>	<b>(28)</b> Level Unit Cost-->	<b>(\$1,421)</b> \$1,420.67	<b>(\$1,236)</b> \$1,236.47	<b>\$0</b>	<b>\$0</b>	<b>(\$49)</b> \$49.47	<b>(\$2,104)</b> \$2,103.93	<b>(\$326)</b> \$326.11	<b>(\$227)</b> \$227.11	<b>(\$2,657)</b> \$2,657.14

<u>\$1,424.172</u> <u>\$1,424.172</u> <u>\$3,027</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #72 INSTALLATION OF 6" DRAIN AT ROOM 077A</u>											
<b>Add 6" Pipe</b>												
130	Pipe, plastic, PVC, 6" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	60 L.F.	25 0.41	\$1,067 17.78	\$741 12.35	\$0	\$0	\$44 0.74	\$1,852 30.87	\$287 4.78	\$204 3.40	\$2,343 39.05
131	Combination Y & 1/8 bend, plastic, PVC, socket joint, 6", type DWV, schedule 40	2 Ea.	5 2.388	\$207 103.54	\$290 145.00	\$0	\$0	\$17 8.70	\$514 257.24	\$80 39.87	\$80 39.94	\$674 337.05
132	Combination Y and 1/8 bend, plastic, ABS, non-pressure, socket joint, 6" x 4", type DWV	4 Ea.	5 1.322	\$229 57.32	\$232 58.00	\$0	\$0	\$14 3.48	\$475 118.80	\$74 18.41	\$64 15.98	\$613 153.19
133	Reducer, plastic, PVC, bushing, socket joint, 4" x 2", type DWV, schedule 40	4 Ea.	4 0.879	\$152 38.11	\$38 9.40	\$0	\$0	\$2 0.56	\$192 48.07	\$30 7.45	\$10 2.59	\$232 58.12
134	Traps, service weight, P trap, B. & S., 6" pipe size	1 Ea.	1 1.412	\$63 63.49	\$149 149.00	\$0	\$0	\$9 8.94	\$221 221.43	\$34 34.32	\$41 41.05	\$297 296.80

**Vaughan Civic Centre**

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<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$3,027</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #72 INSTALLATION OF 6" DRAIN AT ROOM 077A</u>											
<b><u>Add 6" Pipe</u></b>												
135 Elbow, 45 Deg., plastic, PVC, white, socket joint, 6", schedule 40	4	Ea.	6	\$250	\$184	\$0	\$0	\$11	\$445	\$69	\$51	\$565
			1.441	62.48	46.00			2.76	111.24	17.24	12.67	141.15
136 Elbow, 90 Deg., plastic, PVC, white, socket joint, 6", schedule 40	1	Ea.	1	\$62	\$46	\$0	\$0	\$3	\$111	\$17	\$13	\$140
			1.441	62.48	45.50			2.73	110.71	17.16	12.53	140.40
137 Drain, floor, acid resistant, PVC 6" pipe size	2	Ea.	2	\$87	\$480	\$0	\$0	\$29	\$596	\$92	\$132	\$820
			1	43.35	240.00			14.40	297.76	46.15	66.11	410.02
Subtotal				\$2,118	\$2,159	\$0	\$0	\$130	\$4,407	\$683	\$595	\$5,684
Taxes				\$0	\$130	\$0	\$0					
Subcontractor Markups				\$328	\$355	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$595	\$0	\$0					
<b>1.00 LS</b>	<b>TOTAL Add 6" Pipe</b>	<b>49</b>		<b>\$2,446</b>	<b>\$3,238</b>	<b>\$0</b>	<b>\$0</b>	<b>\$130</b>	<b>\$4,407</b>	<b>\$683</b>	<b>\$595</b>	<b>\$5,684</b>

<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$149,465</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #75 DRAINS AND PIPING LOOP FOR SPRINKLER</u>											
<b><u>Delete</u></b>												
138 Pipe, steel, black, threaded, 2" diameter, schedule 40, Spec. A-53, includes coupling and clevis hanger assembly sized for covering, 10' OC	(464)	L.F.	(116)	(\$5,029)	(\$3,666)	\$0	\$0	(\$220)	(\$8,915)	(\$1,382)	(\$1,010)	(\$11,307)
			0.25	10.84	7.90			0.47	19.21	2.98	2.18	24.37
139 Elbow, 90 Deg., steel, malleable iron, black, straight, threaded, 150 lb., 2"	(34)	Ea.	(30)	(\$1,311)	(\$483)	\$0	\$0	(\$29)	(\$1,822)	(\$282)	(\$133)	(\$2,238)
			0.889	38.55	14.20			0.85	53.60	8.31	3.91	65.82
140 Flexible Coupling 2"	(25)	Ea.	(19)	(\$826)	(\$139)	\$0	\$0	(\$8)	(\$973)	(\$151)	(\$38)	(\$1,162)
			0.762	33.04	5.55			0.33	38.92	6.03	1.53	46.48

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$149,465</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #75 DRAINS AND PIPING LOOP FOR SPRINKLER</u>											
<b>Delete</b>												
141 Riser Clamp	(48)	Ea.	(2)	(\$83)	(\$432)	\$0	\$0	(\$26)	(\$541)	(\$84)	(\$119)	(\$744)
			0.04	1.73	9.00			0.54	11.27	1.75	2.48	15.50
Subtotal				(\$7,249)	(\$4,719)	\$0	\$0	(\$283)	(\$12,251)	(\$1,899)	(\$1,300)	(\$15,450)
Taxes				\$0	(\$283)	\$0	\$0					
Subcontractor Markups				(\$1,124)	(\$775)	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	(\$1,300)	\$0	\$0					
	<b>(1.00)</b>	<b>LS</b>	<b>TOTAL Delete (167)</b>	<b>(\$8,373)</b>	<b>(\$7,078)</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$283)</b>	<b>(\$12,251)</b>	<b>(\$1,899)</b>	<b>(\$1,300)</b>	<b>(\$15,450)</b>
			Level Unit Cost-->	\$8,372.81	\$7,077.63			\$283.15	\$12,251.49	\$1,898.98	\$1,299.97	\$15,450.44

<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$149,465</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #75 DRAINS AND PIPING LOOP FOR SPRINKLER</u>											
<b>Add</b>												
142 Pipe, steel, black, threaded, 2" diameter, schedule 40, Spec. A-53, includes coupling and clevis hanger assembly sized for covering, 10' OC	777	L.F.	194	\$8,422	\$6,138	\$0	\$0	\$368	\$14,929	\$2,314	\$1,691	\$18,934
			0.25	10.84	7.90			0.47	19.21	2.98	2.18	24.37
143 Flexible Coupling 2"	45	Ea.	34	\$1,487	\$250	\$0	\$0	\$15	\$1,751	\$271	\$69	\$2,092
			0.762	33.04	5.55			0.33	38.92	6.03	1.53	46.48
144 Flexible Coupling 3"	304	Ea.	232	\$10,044	\$1,985	\$0	\$0	\$119	\$12,148	\$1,883	\$547	\$14,578
			0.762	33.04	6.53			0.39	39.96	6.19	1.80	47.95
145 Flexible Coupling 1.5"	29	Ea.	22	\$958	\$142	\$0	\$0	\$8	\$1,108	\$172	\$39	\$1,319
			0.762	33.04	4.88			0.29	38.21	5.92	1.34	45.48
146 Elbow, 90 Deg., steel, cast iron, black, straight, threaded, standard weight, 2"	72	Ea.	64	\$2,775	\$893	\$0	\$0	\$54	\$3,722	\$577	\$246	\$4,544
			0.889	38.55	12.40			0.74	51.69	8.01	3.42	63.12
147 Tee, steel, cast iron, black, reducing on the run and outlet, threaded, standard weight, 2"	6	Ea.	9	\$379	\$126	\$0	\$0	\$8	\$512	\$79	\$35	\$626
			1.455	63.09	21.00			1.26	85.34	13.23	5.79	104.36
148 Pipe, steel, galvanized, threaded, 1-1/2", schedule 40, Spec. A-53, includes coupling and clevis hanger assembly sized for covering, 10' OC	307	L.F.	61	\$2,662	\$2,487	\$0	\$0	\$149	\$5,298	\$821	\$685	\$6,804
			0.2	8.67	8.10			0.49	17.26	2.67	2.23	22.16

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$149,465</u>	<u>CHANGE ORDER #75 DRAINS AND PIPING LOOP FOR SPRINKLER</u>											
<b><u>Add</u></b>												
149	Cap, steel, malleable iron, black, threaded, 150 lb., 3"	11 Ea.	4	\$182	\$67	\$0	\$0	\$4	\$253	\$39	\$18	<b>\$311</b>
			0.381	16.52	6.10			0.37	22.98	3.56	1.68	28.23
150	Elbow, 45 Deg., steel, cast iron, black, straight, threaded, standard weight, 3"	22 Ea.	35	\$1,526	\$1,375	\$0	\$0	\$83	\$2,984	\$462	\$379	<b>\$3,825</b>
			1.6	69.37	62.50			3.75	135.62	21.02	17.22	173.86
151	Elbow, 90 Deg., steel, cast iron, black, straight, threaded, standard weight, 3"	23 Ea.	37	\$1,596	\$1,116	\$0	\$0	\$67	\$2,778	\$431	\$307	<b>\$3,516</b>
			1.6	69.37	48.50			2.91	120.78	18.72	13.36	152.86
152	Tee, steel, cast iron, black, reducing on the run and outlet, threaded, standard weight, 3"	26 Ea.	69	\$3,006	\$3,068	\$0	\$0	\$184	\$6,259	\$970	\$845	<b>\$8,074</b>
			2.667	115.63	118.00			7.08	240.71	37.31	32.51	310.53
153	Tee, steel, cast iron, black, straight, threaded, standard weight, 3"	24 Ea.	64	\$2,775	\$375	\$0	\$0	\$23	\$3,173	\$492	\$103	<b>\$3,768</b>
			2.667	115.63	15.63			0.94	132.20	20.49	4.31	157.00
154	Elbow, 90 Deg., steel, malleable iron, black, straight, threaded, 150 lb., 1-1/2"	98 Ea.	78	\$3,399	\$809	\$0	\$0	\$49	\$4,256	\$660	\$223	<b>\$5,139</b>
			0.8	34.69	8.25			0.50	43.43	6.73	2.27	52.44
155	Elbow, 45 Deg., steel, malleable iron, black, straight, threaded, 150 lb., 1-1/2"	24 Ea.	19	\$832	\$245	\$0	\$0	\$15	\$1,092	\$169	\$67	<b>\$1,329</b>
			0.8	34.69	10.20			0.61	45.50	7.05	2.81	55.36
156	Riser Clamp	239 Ea.	10	\$415	\$2,151	\$0	\$0	\$129	\$2,695	\$418	\$593	<b>\$3,705</b>
			0.04	1.73	9.00			0.54	11.27	1.75	2.48	15.50
157	Pipe, steel, black, threaded, 3" diameter, schedule 40, Spec. A-53, includes coupling and clevis hanger assembly sized for covering, 10' OC	1,426 L.F.	530	\$23,000	\$22,673	\$0	\$0	\$1,360	\$47,034	\$7,290	\$6,246	<b>\$60,570</b>
			0.372	16.13	15.90			0.95	32.98	5.11	4.38	42.48
158	Cap, steel, malleable iron, black, threaded, 150 lb., 3"	17 Ea.	6	\$281	\$104	\$0	\$0	\$6	\$391	\$61	\$29	<b>\$480</b>
			0.381	16.52	6.10			0.37	22.98	3.56	1.68	28.23
159	Nipple, steel, black, threaded, standard weight, 2-1/2" x 2" long	100 Ea.	89	\$3,854	\$593	\$0	\$0	\$36	\$4,483	\$695	\$163	<b>\$5,341</b>
			0.889	38.55	5.92			0.36	44.83	6.95	1.63	53.41

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$149,465</u>	<u>CHANGE ORDER #75 DRAINS AND PIPING LOOP FOR SPRINKLER</u>												
<b>Add</b>													
160	Nipple, steel, galvanized, threaded, standard weight, 1-1/2" x 2.5" long	100	Ea.	67	\$2,892	\$250	\$0	\$0	\$15	\$3,157	\$489	\$69	<b>\$3,715</b>
				0.667	28.92	2.50		0.15	31.57	4.89	0.69	37.15	
161	Angle Valve, 2" size	7	Ea.	7	\$337	\$2,065	\$0	\$0	\$124	\$2,526	\$392	\$569	<b>\$3,487</b>
				1	48.17	295.00		17.70	360.87	55.94	81.26	498.07	
162	Bolt, hex head, plain steel, 3/8" dia x 2" L, A307, incl nut & washer	17	Ea.	1	\$60	\$3	\$0	\$0	\$0	\$62	\$10	\$1	<b>\$73</b>
				0.062	3.50	0.16		0.01	3.67	0.57	0.04	4.28	
163	Anchor, expansion shield, zinc, 3/8" dia x 2" L, double, in concrete, brick or stone, excl layout & drilling	1,010	Ea.	101	\$5,673	\$2,394	\$0	\$0	\$144	\$8,210	\$1,273	\$659	<b>\$10,142</b>
				0.1	5.62	2.37		0.14	8.13	1.26	0.65	10.04	
164	Rod Plate	500	Ea.	25	\$1,411	\$875	\$0	\$0	\$53	\$2,339	\$0	\$209	<b>\$2,547</b>
				0.05	2.82	1.75		0.11	4.68		0.42	5.09	
	Subtotal				\$77,966	\$50,181	\$0	\$0	\$3,011	\$131,158	\$19,967	\$13,791	<b>\$164,916</b>
	Taxes				\$0	\$3,011	\$0	\$0					
	Subcontractor Markups				\$11,866	\$8,101	\$0	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$13,791	\$0	\$0					
<b>TOTAL Add</b>			<b>1,760</b>		<b>\$89,831</b>	<b>\$75,084</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,011</b>	<b>\$131,158</b>	<b>\$19,967</b>	<b>\$13,791</b>	<b>\$164,916</b>
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<b>CHANGE ORDER #101 SANITARY STREET CONNECTION</b>													
165	CHANGE ORDER #101	1	LS		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$0</b>
								0.10	0.10			0.10	
Memo: Unable to validate CHANGE ORDER #101 because of													
<b>TOTAL CHANGE ORDER #101 SANITARY STREET CONNECTION</b>					<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>1.00 LS</b>													<b>\$0</b>

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$75,503</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #105 PIPING AT MECHANICAL ROOM 077A</u>											
<b><u>Sheet Metal</u></b>												
166 Galvanized ductwork w/ insulation	1	LS		\$5,400	\$17,480	\$0	\$0	\$1,049	\$23,929	\$3,709	\$4,815	\$32,453
				5,400.00	17,479.90			1,048.79	23,928.69	3,708.95	4,815.14	32,452.79
Subtotal				\$5,400	\$17,480	\$0	\$0	\$1,049	\$23,929	\$3,709	\$4,815	\$32,453
Taxes				\$0	\$1,049	\$0	\$0					
Subcontractor Markups				\$837	\$2,872	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$4,815	\$0	\$0					
<b>TOTAL Sheet Metal</b>				<b>\$6,237</b>	<b>\$26,216</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,049</b>	<b>\$23,929</b>	<b>\$3,709</b>	<b>\$4,815</b>	<b>\$32,453</b>
<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$75,503</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #105 PIPING AT MECHANICAL ROOM 077A</u>											
<b><u>Relocate Chilled/Heating pipe</u></b>												
167 Pipe, steel, black, welded, 6" diameter, schedule 40, Spec. A-53, includes yoke& roll hanger assembly, sized for covering, 10' OC	84	L.F.	56	\$2,519	\$2,604	\$131	\$0	\$156	\$5,411	\$839	\$717	\$6,967
			0.667	29.99	31.00	1.56		1.86	64.41	9.98	8.54	82.94
168 Pipe, steel, black, threaded, 1" diameter, schedule 40, A-106, grade A/B seamless, includes coupling and clevis hanger assembly sized for covering, 10' OC	42	L.F.	6	\$306	\$384	\$0	\$0	\$23	\$713	\$110	\$106	\$929
			0.151	7.28	9.15			0.55	16.97	2.63	2.52	22.13
169 Elbow, 90 Deg., steel, cast iron, black, straight, flanged, standard weight, 6" pipe size, add 1 gasket and bolt set (material only) for each joint,	16	Ea.	43	\$1,919	\$5,440	\$0	\$0	\$326	\$7,685	\$1,191	\$1,499	\$10,375
			2.667	119.92	340.00			20.40	480.32	74.45	93.66	648.42
170 Coupling, steel, plain ends for plain end pipe, painted, 6", mechanically coupled joints	32	Ea.	32	\$1,439	\$3,904	\$0	\$0	\$234	\$5,577	\$864	\$1,075	\$7,517
			1	44.96	122.00			7.32	174.28	27.01	33.61	234.90
171 Pipe, steel, Welding labor per joint, 6" pipe size, schedule 40, welding	8	Ea.	16	\$694	\$0	\$56	\$0	\$0	\$750	\$116	\$0	\$866
			2	86.72		7.03			93.74	14.53		108.27

**Vaughan Civic Centre**

**EXPANDED - DETAIL REPORT**

Vaughan, Ontario

U. S. Cost

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$75,503</u>												
<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>CHANGE ORDER #105 PIPING AT MECHANICAL ROOM 077A</u>												
<b><u>Relocate Chilled/Heating pipe</u></b>												
172 Elbow, 90 Deg., steel, cast iron, black, straight, threaded, standard weight, 1"	8	Ea.	5	\$237	\$36	\$0	\$0	\$2	\$276	\$43	\$10	<b>\$328</b>
			0.615	29.63	4.54			0.27	34.44	5.34	1.25	41.03
Subtotal				\$7,113	\$12,369	\$187	\$0	\$742	\$20,411	\$3,164	\$3,407	\$26,982
Taxes				\$0	\$742	\$0	\$0					
Subcontractor Markups				\$1,103	\$2,032	\$29	\$0					
Prime Contractor Markups from 01 AA				\$0	\$3,407	\$0	\$0					
<b>TOTAL Relocate Chilled/Heating pipe</b>			<b>158</b>	<b>\$8,215</b>	<b>\$18,550</b>	<b>\$216</b>	<b>\$0</b>	<b>\$742</b>	<b>\$20,411</b>	<b>\$3,164</b>	<b>\$3,407</b>	<b>\$26,982</b>

<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$75,503</u>												
<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>CHANGE ORDER #105 PIPING AT MECHANICAL ROOM 077A</u>												
<b><u>Insulation</u></b>												
173 Insulation, pipe covering (price copper tube one size less than I.P.S.), fiberglass with all service jacket, 3" wall, 6" iron pipe size	84	L.F.	17	\$865	\$680	\$0	\$0	\$41	\$1,586	\$246	\$187	<b>\$2,019</b>
			0.2	10.29	8.10			0.49	18.88	2.93	2.23	24.04
174 Insulation, pipe covering (price copper tube one size less than I.P.S.), fiberglass with all service jacket, 3" wall, 1" iron pipe size	42	L.F.	4	\$192	\$185	\$0	\$0	\$11	\$389	\$60	\$51	<b>\$500</b>
			0.089	4.58	4.41			0.27	9.26	1.44	1.22	11.90
Subtotal				\$1,057	\$866	\$0	\$0	\$52	\$1,975	\$306	\$238	\$2,519
Taxes				\$0	\$52	\$0	\$0					
Subcontractor Markups				\$164	\$142	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$238	\$0	\$0					
<b>TOTAL Insulation</b>			<b>21</b>	<b>\$1,221</b>	<b>\$1,298</b>	<b>\$0</b>	<b>\$0</b>	<b>\$52</b>	<b>\$1,975</b>	<b>\$306</b>	<b>\$238</b>	<b>\$2,519</b>

<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$75,503</u>												
<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>CHANGE ORDER #105 PIPING AT MECHANICAL ROOM 077A</u>												
<b><u>Sprinkler</u></b>												
175 Coupling, steel, cast iron, black, straight, threaded, extra heavy weight, 2"	20	Ea.	15	\$661	\$232	\$0	\$0	\$14	\$907	\$141	\$64	<b>\$1,111</b>
			0.762	33.04	11.60			0.70	45.34	7.03	3.19	55.56
176 Coupling, steel, cast iron, black, straight, threaded, extra heavy weight, 2-1/2"	20	Ea.	18	\$771	\$341	\$0	\$0	\$20	\$1,132	\$176	\$94	<b>\$1,402</b>
			0.889	38.55	17.05			1.02	56.62	8.78	4.70	70.09



**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

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<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$75,503</u>	<u>CHANGE ORDER #105 PIPING AT MECHANICAL ROOM 077A</u>												
<b><u>Sprinkler</u></b>													
177	Coupling, steel, cast iron, black, straight, threaded, extra heavy weight, 3"	20	Ea.	23	\$991	\$410	\$0	\$0	\$25	\$1,426	\$221	\$113	<b>\$1,760</b>
				1.143	49.56	20.50			1.23	71.29	11.05	5.65	87.98
178	Elbow, 90 Deg., steel, cast iron, black, straight, threaded, standard weight, 2"	8	Ea.	7	\$308	\$112	\$0	\$0	\$7	\$427	\$66	\$31	<b>\$524</b>
				0.889	38.55	13.95			0.84	53.33	8.27	3.84	65.44
179	Elbow, 90 Deg., steel, cast iron, black, straight, threaded, standard weight, 2-1/2"	6	Ea.	7	\$297	\$201	\$0	\$0	\$12	\$510	\$79	\$55	<b>\$645</b>
				1.143	49.56	33.50			2.01	85.07	13.19	9.23	107.48
180	Elbow, 90 Deg., steel, cast iron, black, straight, threaded, standard weight, 3"	6	Ea.	10	\$416	\$327	\$0	\$0	\$20	\$763	\$118	\$90	<b>\$971</b>
				1.6	69.37	54.50			3.27	127.14	19.71	15.01	161.86
181	Elbow, 45 Deg., steel, cast iron, black, straight, threaded, standard weight, 2"	4	Ea.	4	\$154	\$68	\$0	\$0	\$4	\$227	\$35	\$19	<b>\$281</b>
				0.889	38.55	17.10			1.03	56.67	8.78	4.71	70.17
182	Elbow, 45 Deg., steel, cast iron, black, straight, threaded, standard weight, 2-1/2"	4	Ea.	5	\$198	\$178	\$0	\$0	\$11	\$387	\$60	\$49	<b>\$496</b>
				1.143	49.56	44.50			2.67	96.73	14.99	12.26	123.98
183	Elbow, 45 Deg., steel, cast iron, black, straight, threaded, standard weight, 3"	4	Ea.	6	\$277	\$282	\$0	\$0	\$17	\$576	\$89	\$78	<b>\$743</b>
				1.6	69.37	70.50			4.23	144.10	22.34	19.42	185.86
184	Pipe, steel, black, threaded, 2" diameter, schedule 40, Spec. A-53, includes coupling and clevis hanger assembly sized for covering, 10' OC	42	L.F.	11	\$455	\$323	\$0	\$0	\$19	\$798	\$124	\$89	<b>\$1,011</b>
				0.25	10.84	7.70			0.46	19.00	2.94	2.12	24.07
185	Pipe, steel, black, threaded, 2-1/2" diameter, schedule 40, Spec. A-53, includes coupling and clevis hanger assembly sized for covering, 10' OC	21	L.F.	7	\$291	\$253	\$0	\$0	\$15	\$560	\$87	\$70	<b>\$716</b>
				0.32	13.87	12.05			0.72	26.65	4.13	3.32	34.10
186	Pipe, steel, black, threaded, 3" diameter, schedule 40, Spec. A-53, includes coupling and clevis hanger assembly sized for covering, 10' OC	84	L.F.	31	\$1,355	\$1,302	\$0	\$0	\$78	\$2,735	\$424	\$359	<b>\$3,518</b>
				0.372	16.13	15.50			0.93	32.56	5.05	4.27	41.88

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

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<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$75,503</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #105 PIPING AT MECHANICAL ROOM 077A</u>											
<b><u>Sprinkler</u></b>												
187 Riser Clamp	24	Ea.	1	\$42	\$216	\$0	\$0	\$13	\$271	\$42	\$60	\$372
			0.04	1.73	9.00			0.54	11.27	1.75	2.48	15.50
Subtotal				\$6,218	\$4,245	\$0	\$0	\$255	\$10,718	\$1,661	\$1,169	\$13,549
Taxes				\$0	\$255	\$0	\$0					
Subcontractor Markups				\$964	\$698	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$1,169	\$0	\$0					
<b>TOTAL Sprinkler</b>	<b>143</b>			<b>\$7,181</b>	<b>\$6,367</b>	<b>\$0</b>	<b>\$0</b>	<b>\$255</b>	<b>\$10,718</b>	<b>\$1,661</b>	<b>\$1,169</b>	<b>\$13,549</b>
<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$77,410</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #142 CONDENSATE SYSTEM AT NORTH AND EAST</u>											
<b><u>Delete</u></b>												
188 Pipe, copper, tubing, solder, 3/4" diameter, type L, includes coupling & clevis hanger assembly 10' O.C.	(440)	L.F.	(46)	(\$2,226)	(\$1,544)	\$0	\$0	(\$93)	(\$3,863)	(\$599)	(\$425)	(\$4,887)
			0.105	5.06	3.51			0.21	8.78	1.36	0.97	11.11
189 Tee, copper, tee, 3" run size, 2-1/2" to 3" branch size, mechanically formed, (type 2)	(37)	Ea.	(25)	(\$1,189)	(\$674)	\$0	\$0	(\$40)	(\$1,903)	(\$295)	(\$186)	(\$2,384)
			0.667	32.13	18.22			1.09	51.45	7.97	5.02	64.44
190 Misc. material	(1)	LS		\$0	\$0	\$0	(\$100)	\$0	(\$100)	\$0	\$0	(\$100)
							100.00		100.00			100.00
191 Insulation, pipe covering (price copper tube one size less than I.P.S.), fiberglass with all service jacket, 1/2" wall, 3/4" iron pipe size	(440)	L.F.	(29)	(\$1,517)	(\$365)	\$0	\$0	(\$22)	(\$1,904)	(\$295)	(\$101)	(\$2,300)
			0.067	3.45	0.83			0.05	4.33	0.67	0.23	5.23
192 Coupling, copper, copper x copper, 2", DWV	(37)	Ea.	(27)	(\$1,296)	(\$278)	\$0	\$0	(\$17)	(\$1,590)	(\$246)	(\$76)	(\$1,913)
			0.727	35.02	7.50			0.45	42.97	6.66	2.07	51.70
Subtotal				(\$6,228)	(\$2,861)	\$0	(\$100)	(\$172)	(\$9,361)	(\$1,435)	(\$788)	(\$11,584)
Taxes				\$0	(\$172)	\$0	\$0					
Subcontractor Markups				(\$965)	(\$470)	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	(\$788)	\$0	\$0					
<b>1.00 LS</b>	<b>TOTAL Delete</b>	<b>(127)</b>		<b>(\$7,193)</b>	<b>(\$4,291)</b>	<b>\$0</b>	<b>(\$100)</b>	<b>(\$172)</b>	<b>(\$9,361)</b>	<b>(\$1,435)</b>	<b>(\$788)</b>	<b>(\$11,584)</b>

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL		QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
	<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
	<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
	<u>\$77,410</u>	<u>CHANGE ORDER #142 CONDENSATE SYSTEM AT NORTH AND EAST</u>											
<b>Add</b>													
193	Pipe, copper, tubing, solder, 1-1/4" diameter, type DWV, includes coupling & clevis hanger assembly 10' O.C.	1,116	L.F.	148	\$7,151	\$6,863	\$0	\$0	\$412	\$14,426	\$2,236	\$1,891	<b>\$18,552</b>
				0.133	6.41	6.15			0.37	12.93	2.00	1.69	16.62
194	Pipe, copper, tubing, solder, 3/4" diameter, type L, includes coupling & clevis hanger assembly 10' O.C.	1,092	L.F.	115	\$5,524	\$3,833	\$0	\$0	\$230	\$9,587	\$1,486	\$1,056	<b>\$12,128</b>
				0.105	5.06	3.51			0.21	8.78	1.36	0.97	11.11
195	Pipe, copper, refrigeration tubing, dryseal, 100' coils, 3/8" OD, excludes couplings and hangers	8	Coil		\$0	\$800	\$0	\$0	\$48	\$848	\$131	\$220	<b>\$1,200</b>
						100.00			6.00	106.00	16.43	27.55	149.98
196	Elbow, 90 Deg., copper, copper x copper, 1-1/4", DWV	76	Ea.	47	\$2,252	\$703	\$0	\$0	\$42	\$2,997	\$465	\$194	<b>\$3,655</b>
				0.615	29.63	9.25			0.56	39.43	6.11	2.55	48.09
197	Elbow, 45 Deg., copper, copper x copper, 1-1/4", DWV	120	Ea.	74	\$3,555	\$1,026	\$0	\$0	\$62	\$4,643	\$720	\$283	<b>\$5,645</b>
				0.615	29.63	8.55			0.51	38.69	6.00	2.36	47.04
198	Coupling, copper, copper x copper, 1-1/4", DWV	48	Ea.	27	\$1,320	\$208	\$0	\$0	\$12	\$1,541	\$239	\$57	<b>\$1,837</b>
				0.571	27.51	4.34			0.26	32.11	4.98	1.20	38.28
199	Tee, bushing, copper, copper x copper, 1-1/4", DWV	42	Ea.	37	\$1,799	\$769	\$0	\$0	\$46	\$2,613	\$405	\$212	<b>\$3,230</b>
				0.889	42.83	18.30			1.10	62.23	9.64	5.04	76.91
200	TY CDWV 1 1/4"	46	Ea.	46	\$2,216	\$2,334	\$0	\$0	\$140	\$4,690	\$727	\$643	<b>\$6,059</b>
				1	48.17	50.73			3.04	101.95	15.80	13.97	131.72
201	Condensate pump 20' head 230 volt	6	Ea.	12	\$578	\$510	\$0	\$0	\$31	\$1,119	\$173	\$140	<b>\$1,433</b>
				2	96.35	85.00			5.10	186.45	28.90	23.41	238.76
202	Tee, copper, wrought, copper x copper, reducing on the outlet, 3/8"	6	Ea.	3	\$154	\$58	\$0	\$0	\$3	\$215	\$33	\$16	<b>\$264</b>
				0.533	25.68	9.60			0.58	35.85	5.56	2.65	44.06
203	Elbow, 90 Deg., copper, wrought, copper x copper, 3/4"	245	Ea.	103	\$4,969	\$990	\$0	\$0	\$59	\$6,018	\$933	\$273	<b>\$7,224</b>
				0.421	20.28	4.04			0.24	24.56	3.81	1.11	29.48

**Vaughan Civic Centre**

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$77,410</u>	<u>CHANGE ORDER #142 CONDENSATE SYSTEM AT NORTH AND EAST</u>												
<b><u>Add</u></b>													
204	Elbow, 45 Deg., copper, wrought, copper x copper, 3/4"	80	Ea.	34	\$1,623	\$554	\$0	\$0	\$33	\$2,210	\$343	\$153	<b>\$2,705</b>
				0.421	20.28	6.93		0.42	27.63	4.28	1.91	33.82	
205	Coupling, copper, wrought, copper x copper, concentric, reducing, 3/4"	40	Ea.	15	\$717	\$128	\$0	\$0	\$8	\$853	\$132	\$35	<b>\$1,021</b>
				0.372	17.92	3.21		0.19	21.32	3.31	0.88	25.51	
206	Tee, copper, wrought, copper x copper, reducing on the outlet, 3/4"	37	Ea.	25	\$1,189	\$196	\$0	\$0	\$12	\$1,397	\$217	\$54	<b>\$1,667</b>
				0.667	32.13	5.30		0.32	37.75	5.85	1.46	45.06	
207	Cap, copper, wrought, copper x copper, 3/4"	37	Ea.	8	\$376	\$44	\$0	\$0	\$3	\$423	\$66	\$12	<b>\$501</b>
				0.211	10.16	1.20		0.07	11.44	1.77	0.33	13.54	
208	Tee,3x3x2 Y MJ cast iron	4	Ea.	11	\$463	\$45	\$0	\$0	\$3	\$511	\$79	\$12	<b>\$602</b>
				2.667	115.64	11.33		0.68	127.65	19.79	3.12	150.55	
209	Coupling, steel, cast iron, 3 MJ	8	Ea.	9	\$396	\$60	\$0	\$0	\$4	\$460	\$71	\$17	<b>\$548</b>
				1.143	49.56	7.49		0.45	57.50	8.91	2.06	68.47	
210	Coupling, zip 2x1 1/4	4	Ea.	3	\$132	\$43	\$0	\$0	\$3	\$178	\$28	\$12	<b>\$217</b>
				0.762	33.04	10.75		0.65	44.43	6.89	2.96	54.28	
211	Pipe hanger / support, one hole clamp, 1/2" pipe size, for vertical mounting	330	Ea.	17	\$795	\$215	\$0	\$0	\$13	\$1,022	\$158	\$59	<b>\$1,240</b>
				0.05	2.41	0.65		0.04	3.10	0.48	0.18	3.76	
212	Pipe hanger / support, one hole clamp, 3/4" pipe size, for vertical mounting	120	Ea.	7	\$318	\$95	\$0	\$0	\$6	\$418	\$65	\$26	<b>\$509</b>
				0.055	2.65	0.79		0.05	3.49	0.54	0.22	4.25	
213	Pipe hanger / support, one hole clamp, 1-1/4" pipe size, for vertical mounting	150	Ea.	9	\$455	\$195	\$0	\$0	\$12	\$662	\$103	\$54	<b>\$818</b>
				0.063	3.04	1.30		0.08	4.41	0.68	0.36	5.46	
214	Misc Material	1	LS	20	\$964	\$1,000	\$0	\$0	\$60	\$2,024	\$314	\$275	<b>\$2,613</b>
				20	963.50	1,000.00		60.00	2,023.50	313.64	275.47	2,612.61	

**Vaughan Civic Centre**

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**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$77,410</u>	<u>CHANGE ORDER #142 CONDENSATE SYSTEM AT NORTH AND EAST</u>												
<b><u>Add</u></b>													
215	Insulation, pipe covering (price copper tube one size less than I.P.S.), fiberglass with all service jacket, 1-1/2" wall, 1-1/4" iron pipe size	1,100	L.F.	88	\$4,529	\$2,156	\$0	\$0	\$129	\$6,815	\$1,056	\$594	<b>\$8,465</b>
				0.08	4.12	1.96		0.12	6.20	0.96	0.54	7.70	
216	Insulation, pipe covering (price copper tube one size less than I.P.S.), fiberglass with all service jacket, 1-1/2" wall, 3/4" iron pipe size	1,000	L.F.	73	\$3,757	\$1,680	\$0	\$0	\$101	\$5,538	\$858	\$463	<b>\$6,859</b>
				0.073	3.76	1.68		0.10	5.54	0.86	0.46	6.86	
	Subtotal				\$45,231	\$24,505	\$0	\$0	\$1,470	\$71,207	\$11,037	\$6,750	<b>\$88,994</b>
	Taxes				\$0	\$1,470	\$0	\$0					
	Subcontractor Markups				\$7,011	\$4,026	\$0	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$6,750	\$0	\$0					
	<b>TOTAL Add</b>	<b>930</b>			<b>\$52,242</b>	<b>\$36,752</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,470</b>	<b>\$71,207</b>	<b>\$11,037</b>	<b>\$6,750</b>	<b>\$88,994</b>
	<b>1.00 LS</b>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<b><u>CHANGE ORDER #145 DELETE SAW-CUTS AT STONE PANELS</u></b>													
217	Sawing masonry, brick or block, by hand, per inch depth	(1,250)	L.F.	(80)	(\$4,194)	\$0	(\$632)	\$0	\$0	(\$4,826)	(\$748)	\$0	<b>(\$5,575)</b>
				0.064	3.36	0.51			3.86	0.60		4.46	
	Subtotal				(\$4,194)	\$0	(\$632)	\$0	\$0	(\$4,826)	(\$748)	\$0	<b>(\$5,575)</b>
	Subcontractor Markups				(\$650)	\$0	(\$98)	\$0					
	<b>TOTAL CHANGE ORDER #145 DELETE SAW-CUTS AT STONE PANELS</b>	<b>(80)</b>			<b>(\$4,845)</b>	<b>\$0</b>	<b>(\$730)</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$4,826)</b>	<b>(\$748)</b>	<b>\$0</b>	<b>(\$5,575)</b>
	<b>1.00 LS</b>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$29,963</u>	<u>CHANGE ORDER #191 DEPARTMENTAL CHANGES - ADDED ELECTRICAL</u>												
<u>\$29,963</u>	<u>D50 ELECTRICAL</u>												
<u>\$29,963</u>	<u>D5020 LIGHTING &amp; BRANCH WIRING</u>												
<b><u>D502001 BRANCH WIRING</u></b>													
218	Electric metallic tubing, 3/4" diameter, to 15' high, incl couplings only	1.80	C	6	\$455	\$155	\$0	\$0	\$9	\$619	\$96	\$43	<b>\$758</b>
				3.2	252.80	86.00			5.16	343.96	53.31	23.69	420.96
219	EMT boxes connectors, insulated, set screw, 3/4" diameter, to 15' H	0.40	C	3	\$231	\$95	\$0	\$0	\$6	\$332	\$51	\$26	<b>\$409</b>
				7.3	576.70	238.00			14.28	828.98	128.49	65.56	1,023.03

**Vaughan Civic Centre**

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**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u></p> <p><u>\$29,963</u>      <u>CHANGE ORDER #191 DEPARTMENTAL CHANGES - ADDED ELECTRICAL</u></p> <p><u>\$29,963</u>      <u>D50 ELECTRICAL</u></p> <p><u>\$29,963</u>      <u>D5020 LIGHTING &amp; BRANCH WIRING</u></p> <p><b><u>D502001 BRANCH WIRING</u></b></p>													
220	EMT couplings, set screw, steel, 1" diameter, to 15' H	0.19	C		\$0	\$81	\$0	\$0	\$5	\$86	\$13	\$22	<b>\$122</b>
						428.00			25.68	453.68	70.32	117.90	641.90
221	EMT 1 hole clips, 3/4" diameter, to 15' H	0.35	C	1	\$47	\$20	\$0	\$0	\$1	\$68	\$11	\$5	<b>\$84</b>
				1.7	134.29	57.00			3.42	194.71	30.18	15.70	240.59
222	Fasteners	1.40	C	14	\$1,106	\$16	\$0	\$0	\$1	\$1,123	\$174	\$4	<b>\$1,301</b>
				10	790.00	11.35			0.68	802.03	124.32	3.13	929.47
223	Flexible metallic conduit, alum, 7/16" diameter	0.06	M	2	\$190	\$29	\$0	\$0	\$2	\$221	\$34	\$8	<b>\$263</b>
				40	3,160.00	490.00			29.40	3,679.40	570.30	134.98	4,384.68
224	Flexible metallic conduit, alum, 3/4" diameter	0.02	M	1	\$79	\$13	\$0	\$0	\$1	\$93	\$14	\$4	<b>\$111</b>
				50	3,950.00	660.00			39.60	4,649.60	720.70	181.80	5,552.10
225	Flexible metallic conduit, alum, connectors, plain, 3/4" diameter	0.04	Ea.		\$36	\$15	\$0	\$0	\$1	\$52	\$8	\$4	<b>\$65</b>
				11.4	900.50	382.00			22.93	1,305.43	202.38	105.22	1,613.03
226	Wire, copper, solid, 600 volt, #14 RW90	0.18	M	1	\$114	\$9	\$0	\$0	\$1	\$123	\$19	\$2	<b>\$145</b>
				8	632.00	49.00			2.94	683.94	106.02	13.51	803.46
227	Wire, copper, solid, 600 volt, #12 RW90	0.62	M	5	\$392	\$46	\$0	\$0	\$3	\$440	\$68	\$13	<b>\$521</b>
				8	632.00	73.53			4.41	709.95	110.04	20.26	840.25
228	Armored cable, copper, solid, 600 V, 2 conductor, #12, BX, exposed	0.15	M	5	\$412	\$47	\$0	\$0	\$3	\$462	\$72	\$13	<b>\$547</b>
				34.78	2,747.60	316.47			18.99	3,083.05	477.87	87.17	3,648.10
229	Thermostat cable, no jacket, twisted, #18-2 conductor	0.11	M	1	\$87	\$10	\$0	\$0	\$1	\$97	\$15	\$3	<b>\$115</b>
				10	790.00	87.00			5.22	882.22	136.75	23.96	1,042.93
230	Cable connectors, 3/8"	0.38	C	5	\$360	\$15	\$0	\$0	\$1	\$376	\$58	\$4	<b>\$439</b>
				12	948.00	39.37			2.36	989.73	153.41	10.85	1,153.99

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<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u></p> <p><u>\$29,963</u>      <u>CHANGE ORDER #191 DEPARTMENTAL CHANGES - ADDED ELECTRICAL</u></p> <p><u>\$29,963</u>      <u>D50 ELECTRICAL</u></p> <p><u>\$29,963</u>      <u>D5020 LIGHTING &amp; BRANCH WIRING</u></p> <p><b><u>D502001 BRANCH WIRING</u></b></p>												
231	Cable connectors #31, nonmetallic, 600 volt, #18 - #14 wire	0.27	C	2	\$128	\$2	\$0	\$0	\$130	\$20	\$0	\$150
				6	474.00	5.89		0.36	480.24	74.44	1.63	556.31
232	Cable connectors #33, nonmetallic, 600 volt, #14 - #12 wire	0.03	C		\$14	\$0	\$0	\$0	\$14	\$2	\$0	\$17
				6	474.00	8.00		0.50	482.50	74.80	2.23	559.53
233	Cable connectors #35, nonmetallic, 600 volt, #18 - #10 wire	0.56	C	3	\$265	\$7	\$0	\$0	\$273	\$42	\$2	\$317
				6	474.00	12.80		0.77	487.57	75.58	3.53	566.67
234	Outlet boxes, pressed steel, 4" square	0.18	C	7	\$569	\$43	\$0	\$3	\$614	\$95	\$12	\$721
				40	3,160.00	238.00		14.28	3,412.28	528.91	65.56	4,006.74
235	Handy boxes, pressed steel, 1-7/8"S 1/2"KO	0.15	C	4	\$351	\$51	\$0	\$3	\$405	\$63	\$14	\$482
				29.6	2,338.40	342.00		20.52	2,700.92	418.65	94.21	3,213.77
236	Outlet boxes, pressed steel, covers, blank, 4" square	0.18	C	2	\$178	\$25	\$0	\$2	\$204	\$32	\$7	\$243
				12.5	987.50	140.00		8.40	1,135.90	176.06	38.57	1,350.53
237	Outlet boxes, pressed steel, 2 gang, 2-1/2" deep	0.04	C	2	\$126	\$71	\$0	\$4	\$202	\$31	\$20	\$252
				40	3,160.00	1,775.00		106.50	5,041.50	781.42	488.95	6,311.88
238	Duplex receptacle, grounded, 120 volt, 20 amp	0.30	C	9	\$739	\$188	\$0	\$11	\$938	\$145	\$52	\$1,135
				31.2	2,464.80	625.00		37.50	3,127.30	484.73	172.17	3,784.20
239	Circuit breakers, bolt-on, 10 k A I.C., 1 pole, 120 volt, 15 to 50 amp	6	Ea.	5	\$379	\$95	\$0	\$6	\$480	\$74	\$26	\$580
				0.8	63.20	15.80		0.95	79.95	12.39	4.35	96.69
	Subtotal				\$6,258	\$1,033	\$0	\$0	\$62	\$7,353	\$1,140	\$8,778
	Taxes				\$0	\$62	\$0	\$0				
	Subcontractor Markups				\$970	\$170	\$0	\$0				
	Prime Contractor Markups from 01 AA				\$0	\$285	\$0	\$0				
	<b>TOTAL D502001 BRANCH WIRING</b>	<b>79</b>			<b>\$7,228</b>	<b>\$1,549</b>	<b>\$0</b>	<b>\$0</b>	<b>\$62</b>	<b>\$7,353</b>	<b>\$1,140</b>	<b>\$8,778</b>
	<b>1.00 LS</b>											

**Vaughan Civic Centre**

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$29,963</u>      <u>CHANGE ORDER #191 DEPARTMENTAL CHANGES - ADDED ELECTRICAL</u>  <u>\$29,963</u>      <u>D50 ELECTRICAL</u>  <u>\$29,963</u>      <u>D5020 LIGHTING &amp; BRANCH WIRING</u></p> <p><b><u>D502002 LIGHTING EQUIPMENT</u></b></p>												
240	1	Ea.		\$0	\$2,700	\$0	\$0	\$162	\$2,862	\$444	\$744	<b>\$4,049</b>
					2,700.00			162.00	2,862.00	443.61	743.76	4,049.37
241	1	Ea.	48	\$3,792	\$0	\$0	\$0	\$0	\$3,792	\$588	\$0	<b>\$4,380</b>
			48	3,792.00					3,792.00	587.76		4,379.76
242	1	Ea.	28	\$2,212	\$0	\$0	\$0	\$0	\$2,212	\$343	\$0	<b>\$2,555</b>
			28	2,212.00					2,212.00	342.86		2,554.86
243	4	Ea.		\$0	\$356	\$0	\$0	\$21	\$377	\$58	\$98	<b>\$534</b>
					89.00			5.34	94.34	14.62	24.52	133.48
Subtotal				\$6,004	\$3,056	\$0	\$0	\$183	\$9,243	\$1,433	\$842	<b>\$11,518</b>
Taxes				\$0	\$183	\$0	\$0					
Subcontractor Markups				\$931	\$502	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$842	\$0	\$0					
<b>TOTAL D502002 LIGHTING EQUIPMENT</b>			<b>76</b>	<b>\$6,935</b>	<b>\$4,583</b>	<b>\$0</b>	<b>\$0</b>	<b>\$183</b>	<b>\$9,243</b>	<b>\$1,433</b>	<b>\$842</b>	<b>\$11,518</b>
<b>1.00 LS</b>												

<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$29,963</u>      <u>CHANGE ORDER #191 DEPARTMENTAL CHANGES - ADDED ELECTRICAL</u>  <u>\$29,963</u>      <u>D50 ELECTRICAL</u>  <u>\$29,963</u>      <u>D5020 LIGHTING &amp; BRANCH WIRING</u></p> <p><b><u>D502099 OTHER LIGHTING AND BRANCH WIRING</u></b></p>												
244	1	Ea.	47	\$3,713	\$0	\$0	\$0	\$0	\$3,713	\$576	\$0	<b>\$4,289</b>
			47	3,713.00					3,713.00	575.51		4,288.52
245	1	Ea.		\$0	\$3,100	\$0	\$0	\$186	\$3,286	\$509	\$854	<b>\$4,649</b>
					3,100.00			186.00	3,286.00	509.33	853.95	4,649.28



**Vaughan Civic Centre**

Vaughan, Ontario

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**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$29,963</u>      <u>CHANGE ORDER #191 DEPARTMENTAL CHANGES - ADDED ELECTRICAL</u>  <u>\$29,963</u>      <u>D50 ELECTRICAL</u>  <u>\$29,963</u>      <u>D5020 LIGHTING &amp; BRANCH WIRING</u></p> <p><b><u>D502099 OTHER LIGHTING AND BRANCH WIRING</u></b></p>												
246 Update "AS-Builts"	1	Ea.	8	\$632	\$0	\$0	\$0	\$0	\$632	\$98	\$0	\$730
			8	632.00					632.00	97.96		729.96
Subtotal				\$4,345	\$3,100	\$0	\$0	\$186	\$7,631	\$1,183	\$854	\$9,668
Taxes				\$0	\$186	\$0	\$0					
Subcontractor Markups				\$673	\$509	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$854	\$0	\$0					
<b>TOTAL D502099 OTHER LIGHTING AND BRANCH WIRING</b>												
			<b>55</b>	<b>\$5,018</b>	<b>\$4,649</b>	<b>\$0</b>	<b>\$0</b>	<b>\$186</b>	<b>\$7,631</b>	<b>\$1,183</b>	<b>\$854</b>	<b>\$9,668</b>
			<b>1.00</b>	<b>LS</b>								
<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$77,519</u>      <u>CHANGE ORDER #197 - REVISE ROUTING OF PRINT ROOM EXHAUST DUCTWORK</u></p> <p><b><u>Section 1</u></b></p>												
247 Galvanized Ductwork	160	KG	30	\$1,556	\$640	\$0	\$0	\$38	\$2,234	\$346	\$176	\$2,757
			0.185	9.72	4.00			0.24	13.97	2.17	1.10	17.23
248 Duct Insulation	30	M2	21	\$1,081	\$485	\$0	\$0	\$29	\$1,594	\$247	\$133	\$1,975
			0.7	36.03	16.15			0.97	53.15	8.24	4.45	65.83
249 Grille, aluminum, air return, 24" x 24"	1	Ea.	1	\$30	\$85	\$0	\$0	\$5	\$120	\$19	\$23	\$162
			0.533	30.02	85.00			5.10	120.12	18.62	23.41	162.15
250 Roof curb extension for green roof insulation	1	LS		\$0	\$90	\$0	\$0	\$5	\$95	\$15	\$25	\$135
					90.00			5.40	95.40	14.79	24.79	134.98
251 Galvanized Rectangular Elbow and riser w/ insulation	1	LS		\$0	\$2,553	\$0	\$0	\$153	\$2,706	\$419	\$703	\$3,829
					2,552.96			153.18	2,706.14	419.45	703.26	3,828.85
252 Galvanized Rectangular Elbow and riser w/ insulation	(1)	LS		\$0	(\$314)	\$0	\$0	(\$19)	(\$332)	(\$52)	(\$86)	(\$470)
					313.60			18.82	332.42	51.52	86.39	470.33

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**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$77,519</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #197 - REVISE ROUTING OF PRINT ROOM EXHAUST DUCTWORK</u>											
<b><u>Section 1</u></b>												
253 Labor Galvanized ductwork for elbow and riser	1	LS		\$2,100	\$0	\$0	\$0	\$0	\$2,100	\$326	\$0	\$2,426
				2,100.00					2,100.00	325.50		2,425.50
Subtotal				\$4,767	\$3,539	\$0	\$0	\$212	\$8,518	\$1,320	\$975	\$10,813
Taxes				\$0	\$212	\$0	\$0					
Subcontractor Markups				\$739	\$581	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$975	\$0	\$0					
<b>TOTAL Section 1</b>			<b>51</b>	<b>\$5,506</b>	<b>\$5,307</b>	<b>\$0</b>	<b>\$0</b>	<b>\$212</b>	<b>\$8,518</b>	<b>\$1,320</b>	<b>\$975</b>	<b>\$10,813</b>
<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$77,519</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #197 - REVISE ROUTING OF PRINT ROOM EXHAUST DUCTWORK</u>											
<b><u>Section 2</u></b>												
254 Galvanized Ductwork	320	KG	59	\$3,112	\$1,280	\$0	\$0	\$77	\$4,469	\$693	\$353	\$5,514
			0.185	9.72	4.00			0.24	13.97	2.17	1.10	17.23
255 Duct Insulation	50	M2	35	\$1,801	\$808	\$0	\$0	\$48	\$2,657	\$412	\$222	\$3,292
			0.7	36.03	16.15			0.97	53.15	8.24	4.45	65.83
256 Grille, aluminum, air return, 24" x 24"	1	Ea.	1	\$30	\$85	\$0	\$0	\$5	\$120	\$19	\$23	\$162
			0.533	30.02	85.00			5.10	120.12	18.62	23.41	162.15
257 Fishlock lock	1	LS		\$54	\$0	\$0	\$0	\$0	\$54	\$8	\$0	\$63
				54.32					54.32	8.42		62.74
258 Galvanized Rectangular Elbow and riser w/ insulation	1	LS		\$0	\$2,525	\$0	\$0	\$151	\$2,676	\$415	\$695	\$3,786
					2,524.51			151.47	2,675.98	414.78	695.42	3,786.18
259 Galvanized Rectangular Elbow and riser w/ insulation	(1)	LS		\$0	(\$313)	\$0	\$0	(\$19)	(\$332)	(\$51)	(\$86)	(\$470)
					313.30			18.80	332.10	51.48	86.30	469.88

**Vaughan Civic Centre**

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$77,519</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #197 - REVISE ROUTING OF PRINT ROOM EXHAUST DUCTWORK</u>												
<b><u>Section 2</u></b>													
260 Labor Galvanized ductwork for elbow and riser	1	LS		\$3,000	\$0	\$0	\$0	\$0	\$3,000	\$465	\$0	\$3,465	
				3,000.00					3,000.00	465.00		3,465.00	
Subtotal				\$7,998	\$4,384	\$0	\$0	\$263	\$12,644	\$1,960	\$1,208	\$15,812	
Taxes				\$0	\$263	\$0	\$0						
Subcontractor Markups				\$1,240	\$720	\$0	\$0						
Prime Contractor Markups from 01 AA				\$0	\$1,208	\$0	\$0						
<b>TOTAL Section 2</b>				<b>95</b>	<b>\$9,237</b>	<b>\$6,575</b>	<b>\$0</b>	<b>\$0</b>	<b>\$263</b>	<b>\$12,644</b>	<b>\$1,960</b>	<b>\$1,208</b>	<b>\$15,812</b>
<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$77,519</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #197 - REVISE ROUTING OF PRINT ROOM EXHAUST DUCTWORK</u>												
<b><u>Section 3</u></b>													
261 Duct Insulation	15	M2	11	\$540	\$242	\$0	\$0	\$15	\$797	\$124	\$67	\$988	
			0.7	36.03	16.15			0.97	53.15	8.24	4.45	65.83	
262 Roof curb extension for green roof insulation	1	LS		\$0	\$90	\$0	\$0	\$5	\$95	\$15	\$25	\$135	
					90.00			5.40	95.40	14.79	24.79	134.98	
263 Galvanized Rectangular Elbow and riser w/ insulation	1	LS		\$0	\$1,582	\$0	\$0	\$95	\$1,677	\$260	\$436	\$2,373	
					1,582.12			94.93	1,677.05	259.94	435.82	2,372.81	
264 Galvanized Rectangular Elbow and riser w/ insulation	(1)	LS		\$0	(\$284)	\$0	\$0	(\$17)	(\$301)	(\$47)	(\$78)	(\$426)	
					284.16			17.05	301.21	46.69	78.28	426.17	
265 Labor Galvanized ductwork for elbow and riser	1	LS		\$1,950	\$0	\$0	\$0	\$0	\$1,950	\$302	\$0	\$2,252	
				1,950.00					1,950.00	302.25		2,252.25	
Subtotal				\$2,490	\$1,630	\$0	\$0	\$98	\$4,218	\$654	\$449	\$5,321	
Taxes				\$0	\$98	\$0	\$0						
Subcontractor Markups				\$386	\$268	\$0	\$0						
Prime Contractor Markups from 01 AA				\$0	\$449	\$0	\$0						
<b>TOTAL Section 3</b>				<b>11</b>	<b>\$2,876</b>	<b>\$2,445</b>	<b>\$0</b>	<b>\$0</b>	<b>\$98</b>	<b>\$4,218</b>	<b>\$654</b>	<b>\$449</b>	<b>\$5,321</b>

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$77,519</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #197 - REVISE ROUTING OF PRINT ROOM EXHAUST DUCTWORK</u>											
<b>Section 4</b>												
266 Galvanized Ductwork	100	KG	19 0.185	\$972 9.72	\$400 4.00	\$0	\$0	\$24 0.24	\$1,396 13.97	\$216 2.17	\$110 1.10	\$1,723 17.23
267 Roof curb extension for green roof insulation	1	LS		\$0 90.00	\$90 90.00	\$0	\$0	\$5 5.40	\$95 95.40	\$15 14.79	\$25 24.79	\$135 134.98
268 Galvanized Rectangular Elbow and riser w/ insulation	1	LS		\$0 1,388.83	\$1,389 1,388.83	\$0	\$0	\$83 83.33	\$1,472 1,472.16	\$228 228.19	\$383 382.58	\$2,083 2,082.92
269 Galvanized Rectangular Elbow and riser w/ insulation	(1)	LS		\$0 284.16	(\$284) 284.16	\$0	\$0	(\$17) 17.05	(\$301) 301.21	(\$47) 46.69	(\$78) 78.28	(\$426) 426.17
270 Labor Galvanized ductwork for elbow and riser	1	LS		\$1,650 1,650.00	\$0	\$0	\$0	\$0 1,650.00	\$1,650 1,650.00	\$256 255.75	\$0	\$1,906 1,905.75
Subtotal				\$2,622	\$1,595	\$0	\$0	\$96	\$4,313	\$668	\$439	\$5,421
Taxes				\$0	\$96	\$0	\$0					
Subcontractor Markups				\$406	\$262	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$439	\$0	\$0					
<b>TOTAL Section 4</b>			<b>19</b>	<b>\$3,029</b>	<b>\$2,392</b>	<b>\$0</b>	<b>\$0</b>	<b>\$96</b>	<b>\$4,313</b>	<b>\$668</b>	<b>\$439</b>	<b>\$5,421</b>

\$1,424,172  
\$1,424,172  
\$77,519

VAUGHN CITY HALL CHANGE ORDERS  
VAUGHN CITY HALL CHANGE ORDERS  
CHANGE ORDER #197 - REVISE ROUTING OF PRINT ROOM EXHAUST DUCTWORK

**Section 5**

271 Galvanized Ductwork	600	KG	111 0.185	\$5,835 9.72	\$2,400 4.00	\$0	\$0	\$144 0.24	\$8,379 13.97	\$1,299 2.17	\$661 1.10	\$10,339 17.23
272 Grille, aluminum, air return, 24" x 24"	1	Ea.	1 0.533	\$30 30.02	\$85 85.00	\$0	\$0	\$5 5.10	\$120 120.12	\$19 18.62	\$23 23.41	\$162 162.15
273 Demo Access floors	1	LS	18 18	\$944 943.74	\$0	\$0	\$0	\$944 943.74	\$944 943.74	\$146 146.28	\$0	\$1,090 1,090.02

**Vaughan Civic Centre**

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**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$77,519</u>	<u>CHANGE ORDER #197 - REVISE ROUTING OF PRINT ROOM EXHAUST DUCTWORK</u>											
<b><u>Section 5</u></b>												
274 Galvanized Rectangular Elbow and riser w/ insulation	1	LS		\$0	\$1,047	\$0	\$0	\$63	\$1,110	\$172	\$289	<b>\$1,571</b>
					1,047.42			62.84	1,110.27	172.09	288.53	1,570.89
275 Remove Existing and install new ductwork	1	LS		\$1,300	\$0	\$0	\$0	\$0	\$1,300	\$202	\$0	<b>\$1,502</b>
				1,300.00					1,300.00	201.50		1,501.50
Subtotal				\$8,109	\$3,532	\$0	\$0	\$212	\$11,853	\$1,837	\$973	<b>\$14,663</b>
Taxes				\$0	\$212	\$0	\$0					
Subcontractor Markups				\$1,257	\$580	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$973	\$0	\$0					
<b>TOTAL Section 5</b>			<b>130</b>	<b>\$9,365</b>	<b>\$5,298</b>	<b>\$0</b>	<b>\$0</b>	<b>\$212</b>	<b>\$11,853</b>	<b>\$1,837</b>	<b>\$973</b>	<b>\$14,663</b>

<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$77,519</u>	<u>CHANGE ORDER #197 - REVISE ROUTING OF PRINT ROOM EXHAUST DUCTWORK</u>											
<b><u>Section 6</u></b>												
276 Galvanized Ductwork	220	KG	41	\$2,139	\$880	\$0	\$0	\$53	\$3,072	\$476	\$242	<b>\$3,791</b>
			0.185	9.72	4.00			0.24	13.97	2.17	1.10	17.23
277 Grille, aluminum, air return, 24" x 24"	1	Ea.	1	\$30	\$85	\$0	\$0	\$5	\$120	\$19	\$23	<b>\$162</b>
			0.533	30.02	85.00			5.10	120.12	18.62	23.41	162.15
278 Demo Access floors	1	LS	6	\$315	\$0	\$0	\$0	\$0	\$315	\$49	\$0	<b>\$363</b>
			6	314.58					314.58	48.76		363.34
279 Galvanized Rectangular Elbow and riser w/ insulation	1	LS		\$0	\$531	\$0	\$0	\$32	\$562	\$87	\$146	<b>\$796</b>
					530.52			31.83	562.35	87.16	146.14	795.66

**Vaughan Civic Centre**

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<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$77,519</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #197 - REVISE ROUTING OF PRINT ROOM EXHAUST DUCTWORK</u>											
<b>Section 6</b>												
280 Remove Existing and install new ductwork	1	LS		\$600	\$0	\$0	\$0	\$0	\$600	\$93	\$0	\$693
				600.00					600.00	93.00		693.00
Subtotal				\$3,084	\$1,496	\$0	\$0	\$90	\$4,669	\$724	\$412	\$5,805
Taxes				\$0	\$90	\$0	\$0					
Subcontractor Markups				\$478	\$246	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$412	\$0	\$0					
<b>TOTAL Section 6</b>			<b>47</b>	<b>\$3,562</b>	<b>\$2,243</b>	<b>\$0</b>	<b>\$0</b>	<b>\$90</b>	<b>\$4,669</b>	<b>\$724</b>	<b>\$412</b>	<b>\$5,805</b>
<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$77,519</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #197 - REVISE ROUTING OF PRINT ROOM EXHAUST DUCTWORK</u>											
<b>Section 7</b>												
281 Galvanized Ductwork	215	KG	40	\$2,091	\$860	\$0	\$0	\$52	\$3,002	\$465	\$237	\$3,705
			0.185	9.72	4.00			0.24	13.97	2.17	1.10	17.23
282 Grille, aluminum, air return, 24" x 24"	1	Ea.	1	\$30	\$85	\$0	\$0	\$5	\$120	\$19	\$23	\$162
			0.533	30.02	85.00			5.10	120.12	18.62	23.41	162.15
283 Demo Access floors	1	LS	6	\$315	\$0	\$0	\$0	\$0	\$315	\$49	\$0	\$363
			6	314.58					314.58	48.76		363.34
284 Galvanized Rectangular Elbow and riser w/ insulation	1	LS		\$0	\$682	\$0	\$0	\$41	\$723	\$112	\$188	\$1,023
					682.41			40.95	723.36	112.12	187.98	1,023.46
285 Remove Existing and install new ductwork	1	LS		\$600	\$0	\$0	\$0	\$0	\$600	\$93	\$0	\$693
				600.00					600.00	93.00		693.00
Subtotal				\$3,035	\$1,627	\$0	\$0	\$98	\$4,760	\$738	\$448	\$5,947
Taxes				\$0	\$98	\$0	\$0					
Subcontractor Markups				\$470	\$267	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$448	\$0	\$0					
<b>TOTAL Section 7</b>			<b>46</b>	<b>\$3,506</b>	<b>\$2,441</b>	<b>\$0</b>	<b>\$0</b>	<b>\$98</b>	<b>\$4,760</b>	<b>\$738</b>	<b>\$448</b>	<b>\$5,947</b>

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$77,519</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #197 - REVISE ROUTING OF PRINT ROOM EXHAUST DUCTWORK</u>											
<b>Section 8</b>												
286 Galvanized Ductwork	35	KG	6	\$340	\$140	\$0	\$0	\$8	\$489	\$76	\$39	\$603
			0.185	9.72	4.00			0.24	13.97	2.17	1.10	17.23
287 Grille, aluminum, air return, 24" x 24"	(3)	Ea.	(2)	(\$90)	(\$255)	\$0	\$0	(\$15)	(\$360)	(\$56)	(\$70)	(\$486)
			0.533	30.02	85.00			5.10	120.12	18.62	23.41	162.15
288 Galvanized Rectangular Elbow and riser w/ insulation	1	LS		\$0	\$556	\$0	\$0	\$33	\$589	\$91	\$153	\$833
					555.56			33.33	588.89	91.28	153.04	833.21
289 Galvanized Rectangular Elbow and riser w/ insulation	(1)	LS		\$0	(\$272)	\$0	\$0	(\$16)	(\$288)	(\$45)	(\$75)	(\$408)
					271.92			16.32	288.24	44.68	74.91	407.82
290 Labor Galvanized ductwork for elbow and riser	1	LS		\$300	\$0	\$0	\$0	\$0	\$300	\$47	\$0	\$347
				300.00					300.00	46.50		346.50
Subtotal				\$550	\$169	\$0	\$0	\$10	\$729	\$113	\$46	\$889
Taxes				\$0	\$10	\$0	\$0					
Subcontractor Markups				\$85	\$28	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$46	\$0	\$0					
<b>TOTAL Section 8</b>			<b>5</b>	<b>\$636</b>	<b>\$253</b>	<b>\$0</b>	<b>\$0</b>	<b>\$10</b>	<b>\$729</b>	<b>\$113</b>	<b>\$46</b>	<b>\$889</b>

\$1,424,172  
\$1,424,172  
\$77,519

VAUGHN CITY HALL CHANGE ORDERS  
VAUGHN CITY HALL CHANGE ORDERS  
CHANGE ORDER #197 - REVISE ROUTING OF PRINT ROOM EXHAUST DUCTWORK

**Section 9**

291 Galvanized Ductwork	185	KG	34	\$1,799	\$740	\$0	\$0	\$44	\$2,583	\$400	\$204	\$3,188
			0.185	9.72	4.00			0.24	13.97	2.17	1.10	17.23
292 Grille, aluminum, air return, 24" x 24"	2	Ea.	1	\$60	\$170	\$0	\$0	\$10	\$240	\$37	\$47	\$324
			0.533	30.02	85.00			5.10	120.12	18.62	23.41	162.15
293 Galvanized Rectangular Elbow and riser w/ insulation	1	LS		\$0	\$1,179	\$0	\$0	\$71	\$1,250	\$194	\$325	\$1,768
					1,179.12			70.75	1,249.87	193.73	324.81	1,768.41

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$77,519</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #197 - REVISE ROUTING OF PRINT ROOM EXHAUST DUCTWORK</u>											
<b><u>Section 9</u></b>												
294 Galvanized Rectangular Elbow and riser w/ insulation	(1)	LS		\$0	(\$298)	\$0	\$0	(\$18)	(\$315)	(\$49)	(\$82)	<b>(\$446)</b>
					297.56			17.85	315.41	48.89	81.97	446.27
295 Labor Galvanized ductwork for elbow and riser	1	LS		\$800	\$0	\$0	\$0	\$0	\$800	\$124	\$0	<b>\$924</b>
				800.00					800.00	124.00		924.00
Subtotal				\$2,659	\$1,792	\$0	\$0	\$107	\$4,558	\$707	\$494	<b>\$5,758</b>
Taxes				\$0	\$107	\$0	\$0					
Subcontractor Markups				\$412	\$294	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$494	\$0	\$0					
<b>TOTAL Section 9</b>			<b>35</b>	<b>\$3,071</b>	<b>\$2,687</b>	<b>\$0</b>	<b>\$0</b>	<b>\$107</b>	<b>\$4,558</b>	<b>\$707</b>	<b>\$494</b>	<b>\$5,758</b>

<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$77,519</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #197 - REVISE ROUTING OF PRINT ROOM EXHAUST DUCTWORK</u>											
<b><u>Section 10</u></b>												
296 Galvanized Ductwork	215	KG	40	\$2,091	\$860	\$0	\$0	\$52	\$3,002	\$465	\$237	<b>\$3,705</b>
			0.185	9.72	4.00			0.24	13.97	2.17	1.10	17.23
297 Grille, aluminum, air return, 24" x 24"	1	Ea.	1	\$30	\$85	\$0	\$0	\$5	\$120	\$19	\$23	<b>\$162</b>
			0.533	30.02	85.00			5.10	120.12	18.62	23.41	162.15
298 Demo Access floors	1	LS	8	\$419	\$0	\$0	\$0	\$0	\$419	\$65	\$0	<b>\$484</b>
			8	419.44					419.44	65.01		484.45
299 Galvanized Rectangular Elbow and riser w/ insulation	1	LS		\$0	\$902	\$0	\$0	\$54	\$956	\$148	\$249	<b>\$1,353</b>
					902.13			54.13	956.26	148.22	248.51	1,352.98



**Vaughan Civic Centre**

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**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$77,519</u>												
<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #197 - REVISE ROUTING OF PRINT ROOM EXHAUST DUCTWORK</u>												
<b>Section 10</b>												
300 Labor Galvanized ductwork for elbow and riser	1	LS		\$1,200	\$0	\$0	\$0	\$0	\$1,200	\$186	\$0	\$1,386
				1,200.00					1,200.00	186.00		1,386.00
Subtotal				\$3,740	\$1,847	\$0	\$0	\$111	\$5,698	\$883	\$509	\$7,090
Taxes				\$0	\$111	\$0	\$0					
Subcontractor Markups				\$580	\$303	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$509	\$0	\$0					
<b>TOTAL Section 10 48 \$4,320 \$2,770 \$0 \$0 \$111 \$5,698 \$883 \$509 \$7,090</b>												
<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$9,603</u>												
<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #206 PLENUM CLARIFICATION</u>												
<b>Item 1</b>												
301 Galvanized Ductwork	250	KG	46	\$2,431	\$1,000	\$0	\$0	\$60	\$3,491	\$541	\$275	\$4,308
			0.185	9.72	4.00			0.24	13.97	2.17	1.10	17.23
302 Duct accessories, duct access door, insulated	1	Ea.	1	\$56	\$41	\$0	\$0	\$2	\$99	\$15	\$11	\$126
			1	56.32	40.50			2.43	99.25	15.38	11.16	125.79
Subtotal				\$2,487	\$1,041	\$0	\$0	\$62	\$3,590	\$557	\$287	\$4,434
Taxes				\$0	\$62	\$0	\$0					
Subcontractor Markups				\$386	\$171	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$287	\$0	\$0					
<b>TOTAL Item 1 47 \$2,873 \$1,561 \$0 \$0 \$62 \$3,590 \$557 \$287 \$4,434</b>												
<b>1.00 LS</b>												
<u>\$1,424,172</u> <u>\$1,424,172</u> <u>\$9,603</u>												
<u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u> <u>CHANGE ORDER #206 PLENUM CLARIFICATION</u>												
<b>Item 2</b>												
303 Galvanized Ductwork	300	KG	56	\$2,917	\$1,200	\$0	\$0	\$72	\$4,189	\$649	\$331	\$5,169
			0.185	9.72	4.00			0.24	13.97	2.17	1.10	17.23

**Vaughan Civic Centre**

**EXPANDED - DETAIL REPORT**

Vaughan, Ontario

U. S. Cost

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$1,424,172</u>												
<u>\$1,424,172</u>												
<u>\$9,603</u>												
<b><u>Item 2</u></b>												
Subtotal				\$2,917	\$1,200	\$0	\$0	\$72	\$4,189	\$649	\$331	\$5,169
Taxes				\$0	\$72	\$0	\$0					
Subcontractor Markups				\$452	\$197	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$331	\$0	\$0					
<b>TOTAL Item 2</b>			<b>56</b>	<b>\$3,370</b>	<b>\$1,800</b>	<b>\$0</b>	<b>\$0</b>	<b>\$72</b>	<b>\$4,189</b>	<b>\$649</b>	<b>\$331</b>	<b>\$5,169</b>
<u>\$1,424,172</u>												
<u>\$131,625</u>												
<u>\$131,625</u>												
<u>\$117,081</u>												
<b><u>D502001 BRANCH WIRING</u></b>												
304 EMT, 3/4"C, to 15' high, incl couplings only	1	C	3	\$253	\$86	\$0	\$0	\$5	\$344	\$53	\$24	\$421
			3.2	252.80	86.00			5.16	343.96	53.31	23.69	420.96
305 EMT, 1"C, to 15' high, incl couplings only	0.70	C	3	\$216	\$101	\$0	\$0	\$6	\$323	\$50	\$28	\$400
			3.9	308.10	144.00			8.64	460.74	71.41	39.67	571.82
306 EMT, 1-1/4"C, to 15' high, incl couplings only	2.15	C	17	\$1,359	\$634	\$0	\$0	\$38	\$2,031	\$315	\$175	\$2,521
			8	632.00	295.00			17.70	944.70	146.43	81.26	1,172.39
307 EMT, 1-1/2"C, to 15' high, incl couplings only	2.10	C	19	\$1,477	\$794	\$0	\$0	\$48	\$2,318	\$359	\$219	\$2,896
			8.9	703.10	378.00			22.68	1,103.78	171.09	104.13	1,378.99
308 EMT boxes connectors, insulated, set screw, 3/4" diameter, to 15' H	0.10	C	1	\$58	\$24	\$0	\$0	\$1	\$83	\$13	\$7	\$102
			7.3	576.70	238.00			14.28	828.98	128.49	65.56	1,023.03
309 EMT boxes connectors, insulated, set screw, 1" diameter, to 15' H	0.06	C	1	\$42	\$26	\$0	\$0	\$2	\$70	\$11	\$7	\$88
			8.9	703.17	438.00			26.28	1,167.45	180.95	120.65	1,469.05
310 EMT boxes connectors, insulated, set screw, 1-1/4" diameter, to 15' H	0.08	C	1	\$72	\$64	\$0	\$0	\$4	\$140	\$22	\$18	\$179
			11.4	900.63	800.00			48.00	1,748.63	271.02	220.38	2,240.03
311 EMT boxes connectors, insulated, set screw, 1-1/2" diameter, to 15' H	0.01	C		\$11	\$11	\$0	\$0	\$1	\$22	\$3	\$3	\$29
			13.3	1,051.00	1,125.00			67.50	2,243.50	347.70	309.90	2,901.10

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u></p> <p><u>\$131,625</u>      <u>CHANGE ORDER #214 DAYCARE - ELECTRICAL SCOPE (160.2)</u></p> <p><u>\$131,625</u>      <u>D50 ELECTRICAL</u></p> <p><u>\$117,081</u>      <u>D5020 LIGHTING &amp; BRANCH WIRING</u></p> <p><b><u>D502001 BRANCH WIRING</u></b></p>													
312	EMT 1 hole clips, 3/4" diameter, to 15' H	0.20	C		\$27	\$11	\$0	\$0	\$1	\$39	\$6	\$3	<b>\$48</b>
				1.7	134.30	57.00		3.42	194.72	30.18	15.70	240.60	
313	EMT 1 hole clips, 1" diameter, to 15' H	0.14	C		\$20	\$15	\$0	\$0	\$1	\$35	\$5	\$4	<b>\$45</b>
				1.8	142.21	104.00		6.24	252.46	39.13	28.65	320.24	
314	EMT 1 hole clips, 1-1/4" diameter, to 15' H	0.43	C	1	\$68	\$60	\$0	\$0	\$4	\$131	\$20	\$16	<b>\$168</b>
				2	158.00	139.00		8.34	305.34	47.33	38.29	390.96	
315	EMT 1 hole clips, 1-1/2" diameter, to 15' H	0.42	C	1	\$76	\$89	\$0	\$0	\$5	\$171	\$27	\$25	<b>\$222</b>
				2.3	181.69	213.00		12.78	407.47	63.16	58.67	529.30	
316	#10-12 Plastic Plug (1/4) (Please have contractor define this Item & QTY)	0.99	C	20	\$1,564	\$5	\$0	\$0	\$0	\$1,570	\$243	\$1	<b>\$1,815</b>
				20	1,580.00	5.35		0.32	1,585.68	245.78	1.47	1,832.93	
317	ENT, flexible, 3/4" diameter	5	C	18	\$1,383	\$455	\$0	\$0	\$27	\$1,865	\$289	\$125	<b>\$2,279</b>
				3.5	276.50	91.00		5.46	372.96	57.81	25.07	455.84	
318	ENT, connectors, to outlet boxes, 3/4" diameter	1.59	C	6	\$477	\$382	\$0	\$0	\$23	\$882	\$137	\$105	<b>\$1,124</b>
				3.8	300.20	240.00		14.40	554.60	85.96	66.11	706.68	
319	Wire, copper, solid, 600 volt, #14 RW90	0.39	M	3	\$246	\$19	\$0	\$0	\$1	\$267	\$41	\$5	<b>\$313</b>
				8	632.00	49.03		2.94	683.97	106.01	13.50	803.48	
320	Wire, copper, solid, 600 volt, #12 RW90	12.81	M	102	\$8,095	\$942	\$0	\$0	\$57	\$9,093	\$1,409	\$259	<b>\$10,762</b>
				7.999	631.90	73.53		4.41	709.84	110.03	20.25	840.12	
321	Armored cable, copper, solid, 600 V, 2 conductor, #12, BX, AC-90	0.69	M	24	\$1,893	\$218	\$0	\$0	\$13	\$2,124	\$329	\$60	<b>\$2,514</b>
				34.729	2,743.64	316.00		18.96	3,078.60	477.18	87.05	3,642.83	
322	Cable connectors, 3/8"	1.54	C	18	\$1,460	\$61	\$0	\$0	\$4	\$1,524	\$236	\$17	<b>\$1,777</b>
				12	948.00	39.38		2.36	989.75	153.41	10.85	1,154.01	

**Vaughan Civic Centre**

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LEVEL		QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$1,424,172</u> <u>VAUGHN CITY HALL CHANGE ORDERS</u>													
<u>\$131,625</u> <u>CHANGE ORDER #214 DAYCARE - ELECTRICAL SCOPE (160.2)</u>													
<u>\$131,625</u> <u>D50 ELECTRICAL</u>													
<u>\$117,081</u> <u>D5020 LIGHTING &amp; BRANCH WIRING</u>													
<b><u>D502001 BRANCH WIRING</u></b>													
323	Nylon polyethylene pull rope, 1/4"	0.08	M	1	\$53	\$9	\$0	\$0	\$1	\$63	\$10	\$3	\$75
				8.4	663.63	115.50			6.92	786.05	121.84	31.81	939.70
324	Outlet boxes, pressed steel, 4" square	1.21	C	48	\$3,824	\$288	\$0	\$0	\$17	\$4,129	\$640	\$79	\$4,848
				40	3,160.00	238.00			14.28	3,412.28	528.90	65.56	4,006.74
325	Handy boxes, pressed steel, 1-7/8"S 1/2"KO	0.38	C	11	\$889	\$130	\$0	\$0	\$8	\$1,026	\$159	\$36	\$1,221
				29.6	2,338.40	342.00			20.52	2,700.92	418.64	94.21	3,213.77
326	Outlet boxes, pressed steel, covers, blank, 4" square	1.21	C	15	\$1,195	\$169	\$0	\$0	\$10	\$1,374	\$213	\$47	\$1,634
				12.5	987.50	140.00			8.40	1,135.90	176.06	38.56	1,350.53
327	Toggle switch, quiet type, single pole, 20 amp, 120/277V	0.03	C	1	\$70	\$22	\$0	\$0	\$1	\$94	\$15	\$6	\$114
				29.6	2,338.33	740.00			44.40	3,122.73	484.03	203.83	3,810.60
328	Duplex receptacle, grounded, 120 volt, 15 amp, 125V	0.19	C	4	\$300	\$26	\$0	\$0	\$2	\$327	\$51	\$7	\$385
				20	1,580.00	135.00			8.10	1,723.10	267.08	37.19	2,027.37
329	Duplex receptacle, ground fault interrupting, 15 amp, 125V	0.02	C	1	\$47	\$65	\$0	\$0	\$4	\$116	\$18	\$18	\$152
				29.6	2,338.50	3,250.00			195.00	5,783.50	896.45	895.25	7,575.20
330	Duplex receptacle, isolated ground, 15 amp, 125V	0.03	C	1	\$70	\$45	\$0	\$0	\$3	\$118	\$18	\$12	\$149
				29.6	2,338.33	1,500.00			90.00	3,928.33	608.90	413.20	4,950.43
331	Wall plates, stainless steel, 1 gang	0.03	C		\$24	\$7	\$0	\$0	\$0	\$31	\$5	\$2	\$38
				10	790.00	230.00			13.80	1,033.80	160.23	63.37	1,257.40
332	Receptacle cover plate, stainless steel, 1 gang	0.22	C	2	\$174	\$46	\$0	\$0	\$3	\$223	\$35	\$13	\$270
				10	790.00	210.00			12.60	1,012.60	156.96	57.85	1,227.41
333	Telecom cover plate, stainless steel, 1 gang	0.07	C	1	\$55	\$22	\$0	\$0	\$1	\$79	\$12	\$6	\$97
				10	790.00	320.00			19.20	1,129.20	175.03	88.14	1,392.37

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<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u></p> <p><u>\$131,625</u>      <u>CHANGE ORDER #214 DAYCARE - ELECTRICAL SCOPE (160.2)</u></p> <p><u>\$131,625</u>      <u>D50 ELECTRICAL</u></p> <p><u>\$117,081</u>      <u>D5020 LIGHTING &amp; BRANCH WIRING</u></p> <p><b><u>D502001 BRANCH WIRING</u></b></p>													
334	T10 Jack Chain	0.78	C	3	\$246	\$19	\$0	\$0	\$1	\$267	\$41	\$5	<b>\$313</b>
				4	316.00	24.60		1.48	342.08	53.02	6.78	401.88	
335	#10-12 Plastic Plug (1/4) (Please have contractor define this Item & QTY)	0.69	C	14	\$1,090	\$4	\$0	\$0	\$0	\$1,094	\$170	\$1	<b>\$1,265</b>
				20	1,580.00	5.35		0.32	1,585.67	245.78	1.47	1,832.92	
336	Motor starter, manual, single phase, w/ pilot light, 1 pole, 120 V, NEMA 1	5	Ea.	6	\$494	\$323	\$0	\$0	\$19	\$836	\$130	\$89	<b>\$1,054</b>
				1.25	98.75	64.50		3.87	167.12	25.90	17.77	210.79	
337	Circuit breakers, bolt-on, 10 k A I.C., 1 pole, 120 volt, 15 to 50 amp	17	Ea.	14	\$1,074	\$269	\$0	\$0	\$16	\$1,359	\$211	\$74	<b>\$1,644</b>
				0.8	63.20	15.80		0.95	79.95	12.39	4.35	96.69	
338	Circuit breakers, bolt-on, 10 k A I.C., 2 pole, 240 volt, 15 to 50 amp	3	Ea.	3	\$237	\$105	\$0	\$0	\$6	\$348	\$54	\$29	<b>\$431</b>
				1	79.00	35.00		2.10	116.10	18.00	9.64	143.74	
339	Safety switches, general duty, 3 pole, nonfusible, 240 volt, 30 amp, NEMA 1	8	Ea.	20	\$1,580	\$736	\$0	\$0	\$44	\$2,360	\$366	\$203	<b>\$2,929</b>
				2.5	197.50	92.00		5.52	295.02	45.73	25.34	366.09	
340	Hand Dryer connections, 1 phase, 120/240 volt	4	Ea.	6	\$474	\$0	\$0	\$0	\$0	\$474	\$73	\$0	<b>\$547</b>
				1.5	118.50				118.50	18.37		136.87	
Subtotal					\$30,691	\$6,282	\$0	\$0	\$377	\$37,350	\$5,789	\$1,730	<b>\$44,870</b>
Taxes					\$0	\$377	\$0	\$0					
Subcontractor Markups					\$4,757	\$1,032	\$0	\$0					
Prime Contractor Markups from 01 AA					\$0	\$1,730	\$0	\$0					
<b>TOTAL D502001 BRANCH WIRING</b>		<b>388</b>			<b>\$35,449</b>	<b>\$9,421</b>	<b>\$0</b>	<b>\$0</b>	<b>\$377</b>	<b>\$37,350</b>	<b>\$5,789</b>	<b>\$1,730</b>	<b>\$44,870</b>
<b>1.00 LS</b>													

**Vaughan Civic Centre**

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U. S. Cost

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$131,625</u>      <u>CHANGE ORDER #214 DAYCARE - ELECTRICAL SCOPE (160.2)</u>  <u>\$131,625</u>      <u>D50 ELECTRICAL</u>  <u>\$117,081</u>      <u>D5020 LIGHTING &amp; BRANCH WIRING</u></p> <p><b><u>D502002 LIGHTING EQUIPMENT</u></b></p>												
341 Lighting Quote	1	Ea.		\$0	\$38,313	\$0	\$0	\$2,299	\$40,611	\$6,295	\$10,554	<b>\$57,460</b>
					38,312.50			2,298.75	40,611.25	6,294.74	10,553.85	57,459.84
342 Lighting Install	1	Ea.	81	\$6,360	\$0	\$0	\$0	\$0	\$6,360	\$986	\$0	<b>\$7,345</b>
			80.5	6,359.50					6,359.50	985.72		7,345.22
343 Lamps Install	1	Ea.	10	\$790	\$0	\$0	\$0	\$0	\$790	\$122	\$0	<b>\$912</b>
			10	790.00					790.00	122.45		912.45
Subtotal				\$7,150	\$38,313	\$0	\$0	\$2,299	\$47,761	\$7,403	\$10,554	<b>\$65,718</b>
Taxes				\$0	\$2,299	\$0	\$0	\$0				
Subcontractor Markups				\$1,108	\$6,295	\$0	\$0	\$0				
Prime Contractor Markups from 01 AA				\$0	\$10,554	\$0	\$0	\$0				
<b>TOTAL D502002 LIGHTING EQUIPMENT</b>			<b>91</b>	<b>\$8,258</b>	<b>\$57,460</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,299</b>	<b>\$47,761</b>	<b>\$7,403</b>	<b>\$10,554</b>	<b>\$65,718</b>
<b>1.00 LS</b>												
<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u>  <u>\$131,625</u>      <u>CHANGE ORDER #214 DAYCARE - ELECTRICAL SCOPE (160.2)</u>  <u>\$131,625</u>      <u>D50 ELECTRICAL</u>  <u>\$117,081</u>      <u>D5020 LIGHTING &amp; BRANCH WIRING</u></p> <p><b><u>D502099 OTHER LIGHTING AND BRANCH WIRING</u></b></p>												
344 ACCEL Verification	1	Ea.	15	\$1,185	\$0	\$0	\$0	\$0	\$1,185	\$184	\$0	<b>\$1,369</b>
			15	1,185.00					1,185.00	183.68		1,368.68
345 ESA Permit	1	Ea.		\$0	\$2,200	\$0	\$0	\$132	\$2,332	\$361	\$606	<b>\$3,299</b>
					2,200.00			132.00	2,332.00	361.46	606.03	3,299.49

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u></p> <p><u>\$131,625</u>      <u>CHANGE ORDER #214 DAYCARE - ELECTRICAL SCOPE (160.2)</u></p> <p><u>\$131,625</u>      <u>D50 ELECTRICAL</u></p> <p><u>\$117,081</u>      <u>D5020 LIGHTING &amp; BRANCH WIRING</u></p> <p><b><u>D502099 OTHER LIGHTING AND BRANCH WIRING</u></b></p>												
346 Direct Connection	10	Ea.	20	\$1,580	\$0	\$0	\$0	\$0	\$1,580	\$245	\$0	\$1,825
			2	158.00					158.00	24.49		182.49
Subtotal				\$2,765	\$2,200	\$0	\$0	\$132	\$5,097	\$790	\$606	\$6,493
Taxes				\$0	\$132	\$0	\$0					
Subcontractor Markups				\$429	\$361	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$606	\$0	\$0					
<b>TOTAL D502099 OTHER LIGHTING AND BRANCH WIRING</b>	<b>35</b>			<b>\$3,194</b>	<b>\$3,299</b>	<b>\$0</b>	<b>\$0</b>	<b>\$132</b>	<b>\$5,097</b>	<b>\$790</b>	<b>\$606</b>	<b>\$6,493</b>
	<b>1.00</b>	<b>LS</b>										
<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u></p> <p><u>\$131,625</u>      <u>CHANGE ORDER #214 DAYCARE - ELECTRICAL SCOPE (160.2)</u></p> <p><u>\$131,625</u>      <u>D50 ELECTRICAL</u></p> <p><u>\$14,545</u>      <u>D5030 COMMUNICATIONS &amp; SECURITY</u></p> <p><b><u>D503001 FIRE ALARM SYSTEMS</u></b></p>												
347 Fire Alarm Quote	1	Ea.		\$0	\$7,698	\$0	\$0	\$462	\$8,159	\$1,265	\$2,120	\$11,544
					7,697.50			461.85	8,159.35	1,264.70	2,120.41	11,544.46
348 Fire Alarm Install	1	Ea.	20	\$1,580	\$0	\$0	\$0	\$0	\$1,580	\$245	\$0	\$1,825
			20	1,580.00					1,580.00	244.90		1,824.90
349 Fire alarm cable, FEP teflon, 150 volt, to 200 Deg.C, #18, 1 pair	0.53	M	5	\$419	\$461	\$0	\$0	\$28	\$907	\$141	\$127	\$1,175
			10	790.00	870.00			52.20	1,712.20	265.39	239.66	2,217.25
Subtotal				\$1,999	\$8,159	\$0	\$0	\$490	\$10,647	\$1,650	\$2,247	\$14,545
Taxes				\$0	\$490	\$0	\$0					
Subcontractor Markups				\$310	\$1,340	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$2,247	\$0	\$0					
<b>TOTAL D503001 FIRE ALARM SYSTEMS</b>	<b>25</b>			<b>\$2,308</b>	<b>\$12,236</b>	<b>\$0</b>	<b>\$0</b>	<b>\$490</b>	<b>\$10,647</b>	<b>\$1,650</b>	<b>\$2,247</b>	<b>\$14,545</b>
	<b>1.00</b>	<b>LS</b>										

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**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$1,424,172</u>													
<u>\$1,424,172</u>													
<u>\$1,424,172</u>													
<b><u>CHANGE ORDER # 220 ADDITION OF TELECOM CONDUIT</u></b>													
350	Material & Labour: Conduit Installation	1	Ea.		\$0	\$0	\$0	\$35,960	\$0	\$35,960	\$0	\$0	<b>\$35,960</b>
							35,960.00		35,960.00				35,960.00
351	Material & Labour: Fibre Installation	1	Ea.		\$0	\$0	\$0	\$8,540	\$0	\$8,540	\$0	\$0	<b>\$8,540</b>
							8,540.00		8,540.00				8,540.00
<b>TOTAL CHANGE ORDER # 220 ADDITION OF TELECOM CONDUIT</b>					<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$44,500</b>	<b>\$0</b>	<b>\$44,500</b>	<b>\$0</b>	<b>\$0</b>	<b>\$44,500</b>
<b>1.00 LS</b>													
<u>\$1,424,172</u>													
<u>\$1,424,172</u>													
<u>\$1,424,172</u>													
<b><u>CHANGE ORDER #223 REMOVAL OF STOCKPILE TOPSOIL &amp; FILL</u></b>													
352	CHANGE ORDER #223	1	LS		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$0</b>
							0.10		0.10				0.10
Memo: Unable to validate CHANGE ORDER #23 due to unknown													
<b>TOTAL CHANGE ORDER #223 REMOVAL OF STOCKPILE TOPSOIL &amp; FILL</b>					<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>1.00 LS</b>													
<u>\$1,424,172</u>													
<u>\$1,424,172</u>													
<u>\$1,424,172</u>													
<b><u>CHANGE ORDER #226 - HEAT TRACING AT SPRINKLERS PIPING AT FINBARS</u></b>													
353	Electric metallic tubing, 3/4" diameter, to 15' high, incl couplings only	9.80	C	31	\$2,477	\$843	\$0	\$0	\$51	\$3,371	\$522	\$232	<b>\$4,125</b>
				3.2	252.80	86.00			5.16	343.96	53.31	23.69	420.96
354	Electric metallic tubing, 1" diameter, to 15' high, incl couplings only	3.90	C	15	\$1,202	\$562	\$0	\$0	\$34	\$1,797	\$279	\$155	<b>\$2,230</b>
				3.9	308.10	144.00			8.64	460.74	71.42	39.67	571.82
355	EMT boxes connectors, insulated, set screw, 3/4" diameter, to 15' H	0.28	C	2	\$161	\$67	\$0	\$0	\$4	\$232	\$36	\$18	<b>\$286</b>
				7.3	576.71	238.00			14.28	828.99	128.49	65.56	1,023.05



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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$1,424.172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$1,424.172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$1,424.172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<b>CHANGE ORDER #226 - HEAT TRACING AT SPRINKLERS PIPING AT FINBARS</b>												
356 EMT boxes connectors, insulated, set screw, 1" diameter, to 15' H	0.08	C	1 8.9	\$56 703.13	\$35 438.00	\$0	\$0	\$2 26.27	\$93 1,167.40	\$14 180.94	\$10 120.65	<b>\$118</b> 1,468.99
357 EMT couplings, set screw, steel, 3/4" diameter, to 15' H	0.98	C		\$0	\$251 256.00	\$0	\$0	\$15 15.36	\$266 271.36	\$41 42.06	\$69 70.52	<b>\$376</b> 383.94
358 EMT couplings, set screw, steel, 1" diameter, to 15' H	0.39	C		\$0	\$167 428.00	\$0	\$0	\$10 25.68	\$177 453.68	\$27 70.32	\$46 117.90	<b>\$250</b> 641.90
359 EMT 1 hole clips, 3/4" diameter, to 15' H	1.96	C	3 1.7	\$263 134.30	\$112 57.00	\$0	\$0	\$7 3.42	\$382 194.72	\$59 30.18	\$31 15.70	<b>\$472</b> 240.60
360 EMT 1 hole clips, 1" diameter, to 15' H	0.75	C	1 1.8	\$107 142.20	\$78 104.00	\$0	\$0	\$5 6.24	\$189 252.44	\$29 39.13	\$21 28.65	<b>\$240</b> 320.22
361 Wire, copper, solid, 600 volt, #10 RW90 (Matl - \$219x.90=\$197.10)	2.19	M	18 8.018	\$1,387 633.44	\$433 197.55	\$0	\$0	\$26 11.85	\$1,846 842.84	\$286 130.64	\$119 54.42	<b>\$2,251</b> 1,027.90
362 Wire, copper, stranded, 600 volt, #8 RW90 (Matl - \$365.90x.90=\$329.31)	3.08	M	31 9.994	\$2,432 789.49	\$1,014 329.10	\$0	\$0	\$61 19.75	\$3,506 1,138.33	\$543 176.44	\$279 90.66	<b>\$4,329</b> 1,405.43
363 Outlet boxes, pressed steel, 4" square	0.14	C	6 40	\$442 3,160.00	\$33 238.00	\$0	\$0	\$2 14.28	\$478 3,412.28	\$74 528.90	\$9 65.56	<b>\$561</b> 4,006.74
364 Outlet boxes, pressed steel, covers, blank, 4" square	0.14	C	2 12.5	\$138 987.50	\$20 140.00	\$0	\$0	\$1 8.40	\$159 1,135.90	\$25 176.06	\$5 38.56	<b>\$189</b> 1,350.53
365 #10-12 Plastic Plug (1/4) (Please have contractor define this Item & QTY)	2.43	C	49 20	\$3,839 1,580.00	\$13 5.35	\$0	\$0	\$1 0.32	\$3,853 1,585.67	\$597 245.78	\$4 1.47	<b>\$4,454</b> 1,832.92
366 Circuit breakers, ground fault, 2 pole, 240 V, 30 amp	6 Ea.		8 1.333	\$632 105.31	\$1,020 170.00	\$0	\$0	\$61 10.20	\$1,713 285.51	\$266 44.25	\$281 46.83	<b>\$2,260</b> 376.59

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<b>CHANGE ORDER #226 - HEAT TRACING AT SPRINKLERS PIPING AT FINBARS</b>												
367 Firestopping, metallic piping, insulated, through walls, 2" dia	24	Ea.	12	\$948	\$468	\$0	\$0	\$28	\$1,444	\$224	\$129	<b>\$1,797</b>
			0.5	39.50	19.50			1.17	60.17	9.33	5.37	74.87
368 Core Drill Rental	1	Ea.		\$0	\$350	\$0	\$0	\$21	\$371	\$58	\$96	<b>\$525</b>
					350.00			21.00	371.00	57.51	96.41	524.92
369 Core Drill Wall/Floor	12	Ea.	24	\$1,896	\$0	\$0	\$0	\$0	\$1,896	\$294	\$0	<b>\$2,190</b>
			2	158.00					158.00	24.49		182.49
Subtotal				\$15,981	\$5,464	\$0	\$0	\$328	\$21,773	\$3,375	\$1,505	<b>\$26,653</b>
Taxes				\$0	\$328	\$0	\$0					
Subcontractor Markups				\$2,477	\$898	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$1,505	\$0	\$0					
<b>TOTAL CHANGE ORDER #226 - HEAT TRACING AT SPRINKLERS PIPING AT FINBARS</b>	<b>202</b>			<b>\$18,458</b>	<b>\$8,194</b>	<b>\$0</b>	<b>\$0</b>	<b>\$328</b>	<b>\$21,773</b>	<b>\$3,375</b>	<b>\$1,505</b>	<b>\$26,653</b>
<b>1.00 LS</b>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<b>CHANGE ORDER #236 HANDICAPPED DOOR OPERATORS AT LEVEL 000</b>												
370 Door hardware, automatic openers, commercial, pneumatic, for single swing door,per opening, incl. opener, motion sensor, control box, tubing,	6	Ea.	120	\$5,293	\$25,200	\$0	\$0	\$1,512	\$32,005	\$4,961	\$6,942	<b>\$43,908</b>
			20	882.20	4,200.00			252.00	5,334.19	826.80	1,156.96	7,317.96
371 Door hardware, automatic openers, commercial, for handicap actuator buttons (2), incl. 12V DC wiring, add	6	Pr.	32	\$1,797	\$2,490	\$0	\$0	\$149	\$4,437	\$688	\$686	<b>\$5,810</b>
			5.333	299.53	415.00			24.90	739.43	114.61	114.32	968.36
372 Door hardware, school, single, interior, regular use, incl. lever handle	(6)	Door		\$0	(\$3,600)	\$0	\$0	(\$216)	(\$3,816)	(\$591)	(\$992)	<b>(\$5,399)</b>
					600.00			36.00	636.00	98.58	165.28	899.86
Subtotal				\$7,090	\$24,090	\$0	\$0	\$1,445	\$32,626	\$5,057	\$6,636	<b>\$44,319</b>
Taxes				\$0	\$1,445	\$0	\$0					
Subcontractor Markups				\$1,099	\$3,958	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$6,636	\$0	\$0					
<b>TOTAL CHANGE ORDER #236 HANDICAPPED DOOR OPERATORS AT LEVEL 000</b>	<b>152</b>			<b>\$8,189</b>	<b>\$36,129</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,445</b>	<b>\$32,626</b>	<b>\$5,057</b>	<b>\$6,636</b>	<b>\$44,319</b>
<b>1.00 LS</b>												

**Vaughan Civic Centre**

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**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$1,424.172</u>													
<u>\$1,424.172</u>													
<u>\$1,424.172</u>													
<b><u>CHANGE ORDER #236 HANDICAPPED DOOR OPERATORS AT LEVEL 000</u></b>													
<u>\$1,424.172</u>													
<u>\$19,325</u>													
<u>\$19,325</u>													
<u>\$19,325</u>													
<b><u>D502001 BRANCH WIRING - ACCEL CCO#151-R1</u></b>													
373	EMT, 3/4"C, to 15' high, incl couplings only	6.65	C	21	\$1,681	\$572	\$0	\$0	\$34	\$2,287	\$355	\$158	<b>\$2,799</b>
				3.2	252.80	86.00			5.16	343.96	53.31	23.69	420.96
374	EMT boxes connectors, insulated, set screw, 3/4" diameter, to 15' H	0.40	C	3	\$231	\$95	\$0	\$0	\$6	\$332	\$51	\$26	<b>\$409</b>
				7.3	576.70	238.00			14.28	828.98	128.49	65.56	1,023.03
375	EMT 1 hole clips, 3/4" diameter, to 15' H	1.33	C	2	\$179	\$76	\$0	\$0	\$5	\$259	\$40	\$21	<b>\$320</b>
				1.7	134.30	57.00			3.42	194.72	30.18	15.70	240.60
376	Wire, copper, solid, 600 volt, #12 RW90	1.81	M	15	\$1,147	\$133	\$0	\$0	\$8	\$1,289	\$200	\$37	<b>\$1,525</b>
				8.022	633.75	73.75			4.42	711.92	110.35	20.31	842.58
377	Armored cable, copper, solid, 600 V, 2 conductor, #12, BX, AC-90	0.06	M	2	\$165	\$19	\$0	\$0	\$1	\$185	\$29	\$5	<b>\$219</b>
				34.783	2,747.67	316.50			18.98	3,083.15	477.88	87.17	3,648.20
378	Cable connectors, 3/8"	0.12	C	1	\$114	\$5	\$0	\$0	\$0	\$119	\$18	\$1	<b>\$138</b>
				12	948.00	39.42			2.37	989.78	153.41	10.85	1,154.04
379	Cable connectors #33, nonmetallic, 600 volt, #14 - #12 wire	0.18	C	1	\$85	\$1	\$0	\$0	\$0	\$87	\$13	\$0	<b>\$101</b>
				6	474.00	8.11			0.49	482.60	74.81	2.24	559.64
380	Handy boxes, pressed steel, 1-7/8"S 1/2"KO	0.12	C	4	\$281	\$41	\$0	\$0	\$2	\$324	\$50	\$11	<b>\$386</b>
				29.6	2,338.42	342.00			20.52	2,700.93	418.64	94.21	3,213.78
381	#10-12 Plastic Plug (1/4) (Please have contractor define this Item & QTY)	1.60	C	32	\$2,528	\$9	\$0	\$0	\$1	\$2,537	\$393	\$2	<b>\$2,933</b>
				20	1,580.00	5.35			0.32	1,585.67	245.78	1.47	1,832.92

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u></p> <p><u>\$19,325</u>        <u>CHANGE ORDER #237 ADD DOOR OPERATORS (OBC)</u></p> <p><u>\$19,325</u>        <u>D50 ELECTRICAL</u></p> <p><u>\$19,325</u>        <u>D5020 LIGHTING &amp; BRANCH WIRING</u></p> <p><b><u>D502001 BRANCH WIRING - ACCEL CCO#151-R1</u></b></p>												
382 Update "AS-Builts"	1	Ea.	2	\$119	\$0	\$0	\$0	\$0	\$119	\$18	\$0	\$137
			1.5	118.50					118.50	18.37		136.87
Subtotal				\$6,529	\$951	\$0	\$0	\$57	\$7,537	\$1,168	\$262	\$8,967
Taxes				\$0	\$57	\$0	\$0					
Subcontractor Markups				\$1,012	\$156	\$0	\$0					
Prime Contractor Markups from 01 AA				\$0	\$262	\$0	\$0					
<b>TOTAL D502001 BRANCH WIRING - ACCEL CCO#151-R1</b>	<b>83</b>			<b>\$7,540</b>	<b>\$1,427</b>	<b>\$0</b>	<b>\$0</b>	<b>\$57</b>	<b>\$7,537</b>	<b>\$1,168</b>	<b>\$262</b>	<b>\$8,967</b>
	<b>1.00</b>	<b>LS</b>										
<p><u>\$1,424,172</u>      <u>VAUGHN CITY HALL CHANGE ORDERS</u></p> <p><u>\$19,325</u>        <u>CHANGE ORDER #237 ADD DOOR OPERATORS (OBC)</u></p> <p><u>\$19,325</u>        <u>D50 ELECTRICAL</u></p> <p><u>\$19,325</u>        <u>D5020 LIGHTING &amp; BRANCH WIRING</u></p> <p><b><u>D502099 OTHER BRANCH WIRING - LYNX CCO#151-R1</u></b></p>												
383 EXTRA MATERIAL & LABOUR FOR DOORS 220P & 320P	1	LS		\$1,450	\$5,790	\$0	\$0	\$347	\$7,587	\$1,176	\$1,595	\$10,358
				1,450.00	5,790.00			347.40	7,587.40	1,176.05	1,594.96	10,358.40
384 Card Readers	2	Ea.		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
												0.00
385 Controllers	2	Ea.		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
												0.00
386 Motion Detectors	2	Ea.		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
												0.00
387 Door Contacts	2	Ea.		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
												0.00
388 Power Supplies	2	Ea.		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
												0.00

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U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$19,325</u>	<u>CHANGE ORDER #237 ADD DOOR OPERATORS (OBC)</u>											
<u>\$19,325</u>	<u>D50 ELECTRICAL</u>											
<u>\$19,325</u>	<u>D5020 LIGHTING &amp; BRANCH WIRING</u>											
<b><u>D502099 OTHER BRANCH WIRING - LYNX CCO#151-R1</u></b>												
389	Electric Strikers ( Supplied by other, Installed by Lynx)	2	Ea.		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
												\$0
												0.00
390	Lot Wiring of all devices	2	Ea.		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
												\$0
												0.00
	Subtotal			\$1,450	\$5,790	\$0	\$0	\$347	\$7,587	\$1,176	\$1,595	\$10,358
	Taxes			\$0	\$347	\$0	\$0					
	Subcontractor Markups			\$225	\$951	\$0	\$0					
	Prime Contractor Markups from 01 AA			\$0	\$1,595	\$0	\$0					
	<b>TOTAL D502099 OTHER BRANCH WIRING - LYNX CCO#151-R1</b>			<b>\$1,675</b>	<b>\$8,684</b>	<b>\$0</b>	<b>\$0</b>	<b>\$347</b>	<b>\$7,587</b>	<b>\$1,176</b>	<b>\$1,595</b>	<b>\$10,358</b>
	<b>1.00 LS</b>											
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<b><u>CHANGE ORDER #243 MODIFICATION TO REBAR, CONCRETE BEAM AT</u></b>												
391	Structural Steel Framing	1	Met.	12	\$625	\$3,375	\$275	\$0	\$203	\$4,478	\$694	\$930
				11.603	625.02	3,375.00	275.37		202.50	4,477.89	694.07	929.70
												6,101.67
392	Reinforcing steel, in place, beams and girders, #25M to #55M, A615M, grade 300,incl labor for accessories, excl material for accessories	21.13	Met.	276	\$11,476	\$35,923	\$0	\$0	\$2,155	\$49,554	\$7,681	\$9,896
				13.065	543.10	1,700.08			102.01	2,345.18	363.50	468.32
												3,177.00
393	Re-Detailing	32	HRS	32	\$2,080	\$0	\$0	\$0	\$2,080	\$0	\$0	\$2,080
				1	65.00				65.00			65.00
	Subtotal			\$14,181	\$39,298	\$275	\$0	\$2,358	\$56,112	\$8,375	\$10,825	\$75,312
	Taxes			\$0	\$2,358	\$0	\$0					
	Subcontractor Markups			\$1,876	\$6,457	\$43	\$0					
	Prime Contractor Markups from 01 AA			\$0	\$10,825	\$0	\$0					
	<b>TOTAL CHANGE ORDER #243 MODIFICATION TO REBAR, CONCRETE BEAM AT</b>	<b>320</b>		<b>\$16,056</b>	<b>\$58,937</b>	<b>\$318</b>	<b>\$0</b>	<b>\$2,358</b>	<b>\$56,112</b>	<b>\$8,375</b>	<b>\$10,825</b>	<b>\$75,312</b>
	<b>1.00 LS</b>											

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<b><u>CHANGE ORDER #257 STEEL WORK AT NORTH &amp; EAST ATRIUM</u></b>													
394	Structural Steel Framing	1	Met.	12	\$625	\$3,375	\$275	\$0	\$203	\$4,478	\$694	\$930	<b>\$6,102</b>
				11.603	625.02	3,375.00	275.37		202.50	4,477.89	694.07	929.70	6,101.67
395	Hilti HY 150 25 dia.	42	Ea.	28	\$1,352	\$695	\$199	\$0	\$42	\$2,288	\$355	\$191	<b>\$2,834</b>
				0.667	32.20	16.55	4.74		0.99	54.48	8.45	4.56	67.49
396	Hilti KB III Bolt	29	Ea.	2	\$110	\$130	\$0	\$0	\$8	\$247	\$38	\$36	<b>\$321</b>
				0.067	3.78	4.47			0.27	8.52	1.32	1.23	11.07
	Subtotal				\$2,087	\$4,200	\$475	\$0	\$252	\$7,013	\$1,087	\$1,157	<b>\$9,257</b>
	Taxes				\$0	\$252	\$0	\$0					
	Subcontractor Markups				\$323	\$690	\$74	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$1,157	\$0	\$0					
<b>TOTAL CHANGE ORDER #257 STEEL WORK AT NORTH &amp; EAST ATRIUM</b>		<b>42</b>			<b>\$2,410</b>	<b>\$6,299</b>	<b>\$548</b>	<b>\$0</b>	<b>\$252</b>	<b>\$7,013</b>	<b>\$1,087</b>	<b>\$1,157</b>	<b>\$9,257</b>
<b>1.00 LS</b>													

<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<b><u>CHANGE ORDER #258 RAISED FLOOR SYSTEM - BRIDGING AT</u></b>													
397	CHANGE ORDER #258	1	LS		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$0</b>
									0.10	0.10			0.10
<b>TOTAL CHANGE ORDER #258 RAISED FLOOR SYSTEM - BRIDGING AT</b>					<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>1.00 LS</b>													
Memo: Unable to evaluate Change Order #258. Complete quantities bridges are unknown.													

<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<b><u>CHANGE ORDER #263 DAYCARE AREA (DRYWALL-160.4)</u></b>													
398	CHANGE ORDER #263	1	LS		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$0</b>
									0.10	0.10			0.10

**Vaughan Civic Centre**

Vaughan, Ontario

U. S. Cost

**EXPANDED - DETAIL REPORT**

LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<b><u>CHANGE ORDER #263 DAYCARE AREA (DRYWALL-160.4)</u></b>												
<b>TOTAL CHANGE ORDER #263 DAYCARE AREA (DRYWALL-160.4)</b>				<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>1.00 LS</b>												
Memo: Unable to evaluate Change Order #263. Complete quantities of drywall are unknown.												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<b><u>CHANGE ORDER #284 BENT PLATE AT PENTHOUSE ROOF</u></b>												
<b>399 Bent Plate</b>	<b>5,756</b>	Lb.	46	\$2,622	\$13,814	\$210	\$0	\$829	\$17,475	\$2,709	\$3,805	<b>\$23,989</b>
			0.008	0.46	2.40	0.04		0.14	3.04	0.47	0.66	4.17
Subtotal				\$2,622	\$13,814	\$210	\$0	\$829	\$17,475	\$2,709	\$3,805	<b>\$23,989</b>
Taxes				\$0	\$829	\$0	\$0					
Subcontractor Markups				\$406	\$2,270	\$33	\$0					
Prime Contractor Markups from 01 AA				\$0	\$3,805	\$0	\$0					
<b>TOTAL CHANGE ORDER #284 BENT PLATE AT PENTHOUSE ROOF</b>			<b>46</b>	<b>\$3,029</b>	<b>\$20,718</b>	<b>\$242</b>	<b>\$0</b>	<b>\$829</b>	<b>\$17,475</b>	<b>\$2,709</b>	<b>\$3,805</b>	<b>\$23,989</b>
<b>1.00 LS</b>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>											
<b><u>CHANGE ORDER #302 SECTION AT SOUTH LOFT ROOF TO MECHANICAL</u></b>												
<b>400 Structural Steel Framing</b>	<b>0.01</b>	Met.		\$9	\$49	\$4	\$0	\$3	\$65	\$10	\$13	<b>\$88</b>
			16.8	906.00	4,894.00	399.00		293.60	6,492.60	1,006.40	1,348.10	8,847.10
<b>401 Reinforcing steel, in place, beams and girders, #25M to #55M, A615M, grade 300,incl labor for accessories, excl material for accessories</b>	<b>2.53</b>	Met.	33	\$1,374	\$4,301	\$0	\$0	\$258	\$5,933	\$920	\$1,185	<b>\$8,037</b>
			13.064	543.07	1,700.00			102.00	2,345.07	363.49	468.30	3,176.85
<b>402 Re-Detailing</b>	<b>2</b>	HRS	2	\$130	\$0	\$0	\$0	\$0	\$130	\$0	\$0	<b>\$130</b>
			1	65.00					65.00			65.00
<b>403 C.I.P. concrete forms</b>	<b>117.60</b>	m2CA	164	\$9,173	\$3,293	\$0	\$0	\$198	\$12,663	\$1,963	\$907	<b>\$15,533</b>
			1.396	78.00	28.00			1.68	107.68	16.69	7.71	132.09

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LEVEL	QTY	UM	HRS	LABOR	MAT	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<b><u>CHANGE ORDER #302 SECTION AT SOUTH LOFT ROOF TO MECHANICAL</u></b>													
404	Structural concrete, placing	16.40	m3	23	\$1,214	\$574	\$282	\$0	\$34	\$2,104	\$326	\$158	<b>\$2,589</b>
				1.395	74.00	35.00	17.22		2.10	128.32	19.89	9.64	157.85
	Subtotal				\$11,900	\$8,217	\$286	\$0	\$493	\$20,896	\$3,219	\$2,263	<b>\$26,378</b>
	Taxes				\$0	\$493	\$0	\$0					
	Subcontractor Markups				\$1,824	\$1,350	\$44	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$2,263	\$0	\$0					
<b>TOTAL CHANGE ORDER #302 SECTION AT SOUTH LOFT ROOF TO MECHANICAL</b>		<b>222</b>			<b>\$13,724</b>	<b>\$12,323</b>	<b>\$331</b>	<b>\$0</b>	<b>\$493</b>	<b>\$20,896</b>	<b>\$3,219</b>	<b>\$2,263</b>	<b>\$26,378</b>
<b>1.00 LS</b>													
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<u>\$1,424,172</u>	<u>VAUGHN CITY HALL CHANGE ORDERS</u>												
<b><u>CHANGE ORDER #311 DAYCARE TILE SCOPE</u></b>													
405	Ceramic tile, floors, glazed, thin set, color group 1, 12" x 12"	3,200	S.F.	157	\$8,948	\$14,304	\$0	\$0	\$858	\$24,110	\$3,737	\$3,940	<b>\$31,787</b>
				0.049	2.80	4.47			0.27	7.53	1.17	1.23	9.93
406	Resilient Flooring, rubber, tile, marbleized colors, 12" x 12" x 1/8"	360	S.F.	7	\$448	\$2,322	\$0	\$0	\$139	\$2,909	\$451	\$640	<b>\$3,999</b>
				0.02	1.24	6.45			0.39	8.08	1.25	1.78	11.11
407	Cove base, rubber or vinyl, standard colors, 6" h, 0.080" thick	760	L.F.	19	\$1,181	\$988	\$0	\$0	\$59	\$2,228	\$345	\$272	<b>\$2,846</b>
				0.025	1.55	1.30			0.08	2.93	0.45	0.36	3.74
408	Carpet Tile, tufted nylon, hard back, 20 oz, 18" x 18"	600	S.Y.	32	\$1,977	\$13,200	\$0	\$0	\$792	\$15,969	\$2,475	\$3,636	<b>\$22,080</b>
				0.053	3.29	22.00			1.32	26.61	4.13	6.06	36.80
	Subtotal				\$12,553	\$30,814	\$0	\$0	\$1,849	\$45,215	\$7,008	\$8,488	<b>\$60,712</b>
	Taxes				\$0	\$1,849	\$0	\$0					
	Subcontractor Markups				\$1,946	\$5,063	\$0	\$0					
	Prime Contractor Markups from 01 AA				\$0	\$8,488	\$0	\$0					
<b>TOTAL CHANGE ORDER #311 DAYCARE TILE SCOPE</b>		<b>215</b>			<b>\$14,498</b>	<b>\$46,214</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,849</b>	<b>\$45,215</b>	<b>\$7,008</b>	<b>\$8,488</b>	<b>\$60,712</b>
<b>1.00 LS</b>													



# APPENDIX G

## Labor Rate Comparison Details





APPENDIX G - Wage Recalculations

CO	Issue Date	Quote Date	Subcontractor	Description	Labor Hours	Labor Rate	Total Labor	Category	Wage Rate	Year Factor	Adjusted Rate	WSIB Group	WSIB Rate	Billable Wage Rate	Billable Labor	Difference
445	14-Mar-11	2/24/2011	Basic \$3706.40	Disable vents	10.00	65.00	650.00	Laborer	42.96	108.280	151.24	719	7.19	158.43	1,584.30	934.30
18	4-Jun-08	10/29/2007	Benson Steel \$2542.98	Erection	2.50	85.00	212.50	Struct. Steel Erection	47.42	1	48.42	748	17.51	65.93	164.83	(47.68)
7	6-Mar-08	10/31/2007	Benson	Erection	2.50	85.00	212.50	Struct. Steel Erection	47.42	1	48.42	748	17.51	65.93	164.83	(47.68)
34	12-Sep-08	7/4/2008	Benson Steel \$1264.90	Erection	8.00	85.00	680.00	Struct. Steel Erection	47.42	1.04	48.46	748	17.51	65.97	527.76	(152.24)
48	20-Oct-08	7/8/2008	Benson Steel \$2006.70	Erection	2.00	85.00	170.00	Struct. Steel Erection	47.42	1.04	48.46	748	17.51	65.97	131.94	(38.06)
50	20-Oct-08	8/11/2008	Benson Steel \$683.24	Erection	3.00	85.00	255.00	Struct. Steel Erection	47.42	1.04	48.46	748	17.51	65.97	197.91	(57.09)
58	17-Nov-08	8/11/2008	Benson Steel \$3278.35	Erection	7.00	85.00	595.00	Struct. Steel Erection	47.42	1.04	48.46	748	17.51	65.97	461.79	(133.21)
74	21-Jan-09	8/11/2008	Benson Steel \$22986.4	Erection	26.00	85.00	2,210.00	Struct. Steel Erection	47.42	1.04	48.46	748	17.51	65.97	1,715.22	(494.78)
132	10-Aug-09	9/25/2008	Benson Steel \$3449;	Erection	18.00	85.00	1,530.00	Struct. Steel Erection	47.42	1.04	48.46	748	17.51	65.97	1,187.46	(342.54)
47	20-Oct-08	9/30/2008	Benson Steel \$7849.18	Erection	17.00	85.00	1,445.00	Struct. Steel Erection	47.42	1.04	48.46	748	17.51	65.97	1,121.49	(323.51)
157	22-Jan-10	12/2/2008	Benson Steel \$6002.56	Erection	7.00	85.00	595.00	Struct. Steel Erection	47.42	1.04	48.46	748	17.51	65.97	461.79	(133.21)
160	22-Jan-10	12/2/2008	Benson Steel \$8285.95	Erection	54.00	85.00	4,590.00	Struct. Steel Erection	47.42	1.04	48.46	748	17.51	65.97	3,562.38	(1,027.62)
277	24-Sep-10	12/2/2008	Benson Steel \$5129.46	Erection	5.00	85.00	425.00	Struct. Steel Erection	47.42	1.04	48.46	748	17.51	65.97	329.85	(95.15)
82	13-Mar-09	12/4/2008	Benson Steel \$1511.54	Erection	2.50	85.00	212.50	Struct. Steel Erection	47.42	1.04	48.46	748	17.51	65.97	164.93	(47.58)
276	24-Sep-10	1/14/2009	Benson Steel 415513.5	Erection	10.00	85.00	850.00	Struct. Steel Erection	47.42	1.078	48.50	748	17.51	66.01	660.08	(189.92)
158	22-Jan-10	1/27/2009	Benson Steel <\$3003.2	Erection	(5.00)	85.00	(425.00)	Struct. Steel Erection	47.42	1.078	48.50	748	17.51	66.01	(330.04)	94.96
284	1-Nov-10	1/27/2009	Benson Steel \$40283.8	Erection	198.00	85.00	16,830.00	Struct. Steel Erection	47.42	1.078	48.50	748	17.51	66.01	13,069.58	(3,760.42)
303	1-Nov-10	1/27/2009	Benson Steel <\$3978.7	Erection	(8.00)	85.00	(680.00)	Struct. Steel Erection	47.42	1.078	48.50	748	17.51	66.01	(528.06)	151.94
312	1-Nov-10	1/27/2009	Benson \$782.06	Erection	2.00	85.00	170.00	Struct. Steel Erection	47.42	1.078	48.50	748	17.51	66.01	132.02	(37.98)
159	22-Jan-10	3/16/2009	Benson Steel \$1695.25	Erection	2.00	85.00	170.00	Struct. Steel Erection	47.42	1.078	48.50	748	17.51	66.01	132.02	(37.98)
243	22-Jun-10	3/18/2009	Benson Steel \$6806.27	Erection	2.00	85.00	170.00	Struct. Steel Erection	47.42	1.078	48.50	748	17.51	66.01	132.02	(37.98)
257	16-Jul-10	12/16/2009	Benson \$125000	Foreman	168.00	88.00	14,784.00	Struct. Steel Erec - Foreman	50.42	1.078	51.50	748	17.51	69.01	11,593.34	(3,190.66)
257	16-Jul-10	12/16/2009	Benson \$125000	Erection	405.00	85.00	34,425.00	Struct. Steel Erection	47.42	1.078	48.50	748	17.51	66.01	26,733.24	(7,691.76)
244	22-Jun-10	12/17/2009	Benson Steel \$18755.6	Foreman	34.00	88.00	2,992.00	Struct. Steel Erec - Foreman	50.42	1.078	51.50	748	17.51	69.01	2,346.27	(645.73)
509	29-Apr-11	12/17/2009	Benson \$44548.65	Foreman	72.00	88.00	6,336.00	Struct. Steel Erec - Foreman	50.42	1.078	51.50	748	17.51	69.01	4,968.58	(1,367.42)
244	22-Jun-10	12/17/2009	Benson Steel \$18755.6	Erection	47.00	85.00	3,995.00	Struct. Steel Erection	47.42	1.078	48.50	748	17.51	66.01	3,102.38	(892.62)
376	22-Dec-10	12/17/2009	Benson Steel \$651.42	Erection	6.00	85.00	510.00	Struct. Steel Erection	47.42	1.078	48.50	748	17.51	66.01	396.05	(113.95)
509	29-Apr-11	12/17/2009	Benson \$44548.65	Erection	116.00	85.00	9,860.00	Struct. Steel Erection	47.42	1.078	48.50	748	17.51	66.01	7,656.93	(2,203.07)
235	22-Jun-10	2/9/2010	Benson Steel \$661.82	Erection	3.00	85.00	255.00	Struct. Steel Erection	47.42	1.089	48.51	748	17.51	66.02	198.06	(56.94)
378	22-Dec-10	2/10/2010	Benson Steel \$1764.84	Foreman	8.00	88.00	704.00	Struct. Steel Erec - Foreman	50.42	1.089	51.51	748	17.51	69.02	552.15	(151.85)
378	22-Dec-10	2/10/2010	Benson Steel \$1764.84	Erection	8.00	85.00	680.00	Struct. Steel Erection	47.42	1.089	48.51	748	17.51	66.02	528.15	(151.85)







APPENDIX G - Wage Recalculations

CO	Issue Date	Quote Date	Subcontractor	Description	Labor Hours	Labor Rate	Total Labor	Category	Wage Rate	Year Factor	Adjusted Rate	WSIB Group	WSIB Rate	Billable Wage Rate	Billable Labor	Difference
127	20-Jul-09	3/26/2009	GD Sheet Metal for Pipe	Labor - fire damper	42.00	75.00	3,150.00	Sheet Metal	47.98	1.078	49.06	707	3.98	53.04	2,227.60	(922.40)
127	20-Jul-09	3/26/2009	GD Sheet Metal for Pipe	Labor - fire damper	20.00	75.00	1,500.00	Sheet Metal	47.98	1.078	49.06	707	3.98	53.04	1,060.76	(439.24)
127	20-Jul-09	3/26/2009	GD Sheet Metal for Pipe	Labor - fire damper	18.00	75.00	1,350.00	Sheet Metal	47.98	1.078	49.06	707	3.98	53.04	954.68	(395.32)
127	20-Jul-09	3/26/2009	GD Sheet Metal for Pipe	Labor - fire damper	48.00	75.00	3,600.00	Sheet Metal	47.98	1.078	49.06	707	3.98	53.04	2,545.82	(1,054.18)
127	20-Jul-09	3/26/2009	GD Sheet Metal for Pipe	Labor - fire damper	24.00	75.00	1,800.00	Sheet Metal	47.98	1.078	49.06	707	3.98	53.04	1,272.91	(527.09)
131	10-Aug-09	5/22/2009	GD Sheet Metal for Pipe	Deduct pipe support	8.00	75.00	600.00	Sheet Metal	47.98	1.078	49.06	707	3.98	53.04	424.30	(175.70)
135	19-Oct-09	5/27/2009	GD Sheet Metal for Pipe	Acoustic plenum	72.00	75.00	5,400.00	Sheet Metal	47.98	1.078	49.06	707	3.98	53.04	3,818.74	(1,581.26)
213	27-May	6/5/2009	GD Sheetmetal for Pipe	Ductwork	20.00	75.00	1,500.00	Sheet Metal	47.98	1.078	49.06	707	3.98	53.04	1,060.76	(439.24)
139	19-Oct-09	7/17/2009	GD Sheetmetal for Pipe	Delete square diffuser	(2.00)	75.00	(150.00)	Sheet Metal	47.98	1.078	49.06	707	3.98	53.04	(106.08)	43.92
517	29-Apr-11	9/10/2009	GD Sheet Metal for Pipe	Ductwork	12.00	75.00	900.00	Sheet Metal	47.98	1.078	49.06	707	3.98	53.04	636.46	(263.54)
206	27-May	10/19/2009	GD Sheet Metal for Pipe	Intake plenum	48.00	75.00	3,600.00	Sheet Metal	47.98	1.078	49.06	707	3.98	53.04	2,545.82	(1,054.18)
206	27-May	10/21/2009	GD Sheetmetal for Pipe	Intake plenum	60.00	75.00	4,500.00	Sheet Metal	47.98	1.078	49.06	707	3.98	53.04	3,182.28	(1,317.72)
176	1-Mar-10	10/26/2009	GD Sheet Metal for Pipe	Galvanized rectangular	27.00	75.00	2,025.00	Sheet Metal	47.98	1.078	49.06	707	3.98	53.04	1,432.03	(592.97)
509	29-Apr-11	10/26/2009	GD Sheet Metal for Pipe	Labor	24.00	75.00	1,800.00	Sheet Metal	47.98	1.078	49.06	707	3.98	53.04	1,272.91	(527.09)
163	22-Jan-10	11/6/2009	GD Sheet Metal for Pipe	Deduct Rectangular duct	(96.00)	75.00	(7,200.00)	Sheet Metal	47.98	1.078	49.06	707	3.98	53.04	(5,091.65)	2,108.35
163	22-Jan-10	11/6/2009	GD Sheet Metal for Pipe	Rectangular ductwork	160.00	75.00	12,000.00	Sheet Metal	47.98	1.078	49.06	707	3.98	53.04	8,486.08	(3,513.92)
195	11-Mar-10	11/11/2009	GD Sheet Metal for Pipe	Ductwork	72.00	75.00	5,400.00	Sheet Metal	47.98	1.078	49.06	707	3.98	53.04	3,818.74	(1,581.26)
174	22-Jan-10	11/20/2009	GD Sheet Metal for Pipe	Acoustical and ductwork	768.00	75.00	57,600.00	Sheet Metal	47.98	1.078	49.06	707	3.98	53.04	40,733.18	(16,866.82)
291	1-Nov-10	12/7/2009	GD Sheet Metal for Pipe	Ductwork	16.00	75.00	1,200.00	Sheet Metal	47.98	1.078	49.06	707	3.98	53.04	848.61	(351.39)
278	24-Sep-10	12/23/2009	GD Sheet Metal for Pipe	Acoustic and ductwork	48.00	75.00	3,600.00	Sheet Metal	47.98	1.078	49.06	707	3.98	53.04	2,545.82	(1,054.18)
351	22-Dec-10	1/5/2010	GD Sheet Metal for Pipe	Grille	8.00	75.00	600.00	Sheet Metal	47.98	1.089	49.07	707	3.98	53.05	424.39	(175.61)
424	14-Mar-11	1/27/2010	GD Sheet Metal for Pipe	Modify MT boxes	119.00	75.00	8,925.00	Sheet Metal	47.98	1.089	49.07	707	3.98	53.05	6,312.83	(2,612.17)
294	1-Nov-10	3/5/2010	GD Sheet Metal for Pipe	Ductwork	72.00	75.00	5,400.00	Sheet Metal	47.98	1.089	49.07	707	3.98	53.05	3,819.53	(1,580.47)
232	22-Jun-10	3/19/2010	GD Sheet Metal for Pipe	Reinstall ductwork	64.00	75.00	4,800.00	Sheet Metal	47.98	1.089	49.07	707	3.98	53.05	3,395.14	(1,404.86)
390	22-Dec-10	3/30/2010	GD Sheet Metal for Pipe	Ductwork	16.00	75.00	1,200.00	Sheet Metal	47.98	1.089	49.07	707	3.98	53.05	848.78	(351.22)
389	22-Dec-10	4/6/2010	GD Sheet Metal for Pipe	Credit	(2.00)	75.00	(150.00)	Sheet Metal	47.98	1.089	49.07	707	3.98	53.05	(106.10)	43.90
388	22-Dec-10	4/7/2010	GD Sheet Metal for Pipe	Credit	(1.00)	75.00	(75.00)	Sheet Metal	47.98	1.089	49.07	707	3.98	53.05	(53.05)	21.95
391	22-Dec-10	4/13/2010	GD Sheet Metal for Pipe	Disconnect remove exist	56.00	75.00	4,200.00	Sheet Metal	47.98	1.089	49.07	707	3.98	53.05	2,970.74	(1,229.26)
254	16-Jul-10	4/19/2010	GD Sheet Metal for Pipe	Return air grilles	20.00	75.00	1,500.00	Sheet Metal	47.98	1.089	49.07	707	3.98	53.05	1,060.98	(439.02)
255	16-Jul-10	4/19/2010	GD Sheet Metal for Pipe	Access door	8.00	75.00	600.00	Sheet Metal	47.98	1.089	49.07	707	3.98	53.05	424.39	(175.61)
478	27-Apr-11	5/14/2010	GD Sheet Metal for Pipe	Ductwork	16.00	75.00	1,200.00	Sheet Metal	47.98	1.089	49.07	707	3.98	53.05	848.78	(351.22)
396	31-Jan-11	6/16/2010	GD Sheet Metal for Pipe	Acoustical insulation	4.00	75.00	300.00	Sheet Metal	47.98	1.089	49.07	707	3.98	53.05	212.20	(87.80)
281	24-Sep-10	6/17/2010	GD Sheet Metal for Pipe	Remove dampers and	108.00	75.00	8,100.00	Sheet Metal	47.98	1.089	49.07	707	3.98	53.05	5,729.29	(2,370.71)
281	24-Sep-10	6/17/2010	GD Sheet Metal for Pipe	Remove dampers and	112.50	75.00	8,437.50	Sheet Metal	47.98	1.089	49.07	707	3.98	53.05	5,968.01	(2,469.49)
333	2-Dec-10	7/7/2010	GD Sheet Metal for Pipe	Galvanized rectangular	168.00	75.00	12,600.00	Sheet Metal	47.98	1.089	49.07	707	3.98	53.05	8,912.23	(3,687.77)
392	22-Dec-10	7/9/2010	GD Sheet Metal for Pipe	Exhaust grille	4.00	75.00	300.00	Sheet Metal	47.98	1.089	49.07	707	3.98	53.05	212.20	(87.80)
397	31-Jan-11	8/23/2010	GD Sheet Metal for Pipe	Ductwork	12.00	75.00	900.00	Sheet Metal	47.98	1.089	49.07	707	3.98	53.05	636.59	(263.41)
523	29-Apr-11	9/16/2010	GD Sheet Metal for Pipe	Ductwork	24.00	75.00	1,800.00	Sheet Metal	47.98	1.089	49.07	707	3.98	53.05	1,273.18	(526.82)
384	22-Dec-10	10/19/2010	GD Sheet Metal for Pipe	Generator flue curb	16.00	75.00	1,200.00	Sheet Metal	47.98	1.089	49.07	707	3.98	53.05	848.78	(351.22)
315	1-Nov-10	10/27/2010	GD Sheet Metal for Pipe	Reconnect ductwork si	96.00	75.00	7,200.00	Sheet Metal	47.98	1.089	49.07	707	3.98	53.05	5,092.70	(2,107.30)
446	14-Mar-11	1/28/2011	GP Custom \$2560	Installation	16.00	85.00	1,360.00	Laborer	42.96	108.280	151.24	719	7.19	158.43	2,534.88	1,174.88
492	27-Apr-11	3/21/2011	GP Custom \$2120	Installation	40.00	85.00	3,400.00	Laborer	42.96	108.280	151.24	719	7.19	158.43	6,337.20	2,937.20
77	13-Mar-09	5/3/2007	Harris Rebar Detailing	Re-detailing	1.00	65.00	65.00	Reinforced Steel Erection	44.76	1	45.76	748	17.51	63.27	63.27	(1.73)
59	17-Nov-08	7/23/2007	Harris Rebar Detailing	Re-detailing	1.00	65.00	65.00	Reinforced Steel Erection	44.76	1	45.76	748	17.51	63.27	63.27	(1.73)
249	16-Jul-10	12/7/2007	Harris Rebar \$5226.81	Additional labor	25.00	60.00	1,500.00	Reinforced Steel Erection	44.76	1	45.76	748	17.51	63.27	1,581.75	81.75
153	15-Jan-10	1/28/2008	Harris Rebar Detailing	Re-detailing	2.00	65.00	130.00	Reinforced Steel Erection	44.76	1.04	45.80	748	17.51	63.31	126.62	(3.38)
84	13-Mar-09	2/6/2008	Harris Rebar Detail \$65	Re-detailing	1.00	65.00	65.00	Reinforced Steel Erection	44.76	1.04	45.80	748	17.51	63.31	63.31	(1.69)
61	17-Nov-08	2/15/2008	Harris Rebar Detail \$65	Re-detailing	1.00	65.00	65.00	Reinforced Steel Erection	44.76	1.04	45.80	748	17.51	63.31	63.31	(1.69)
28	15-Jul-08	2/28/2008	Harris Rebar Redetailing	Re-detailing	1.00	65.00	65.00	Reinforced Steel Erection	44.76	1.04	45.80	748	17.51	63.31	63.31	(1.69)
302	1-Nov-10	5/23/2008	Harris rebar Detailing	Re-detailing	2.00	65.00	130.00	Reinforced Steel Erection	44.76	1.04	45.80	748	17.51	63.31	126.62	(3.38)
243	22-Jun-10	7/16/2008	Harris Rebar \$18068.28	Extra labor	265.71	68.00	18,068.28	Reinforced Steel Erection	44.76	1.04	45.80	748	17.51	63.31	16,822.10	(1,246.18)
243	22-Jun-10	7/16/2008	Harris Rebar detailing	Re-detailing	32.00	65.00	2,080.00	Reinforced Steel Erection	44.76	1.04	45.80	748	17.51	63.31	2,025.92	(54.08)

APPENDIX G - Wage Recalculations

CO	Issue Date	Quote Date	Subcontractor	Description	Labor Hours	Labor Rate	Total Labor	Category	Wage Rate	Year Factor	Adjusted Rate	WSIB Group	WSIB Rate	Billable Wage Rate	Billable Labor	Difference
64	16-Dec-08	11/5/2008	Harris Rebar Detailing S	Re-detailing	4.00	65.00	260.00	Reinforced Steel								
								Erection	44.76	1.04	45.80	748	17.51	63.31	253.24	(6.76)
387	22-Dec-10	12/2/2010	Johnson Control for Pip	Remove and replace flo	4.00	95.00	380.00	Plumber	54.03	1.089	55.12	707	3.98	59.10	236.40	(143.60)
51	20-Oct-08	4/27/2007	Kapp \$272	Labor - fill bins	4.00	68.00	272.00	Laborer	42.96	1	43.96	748	17.51	61.47	245.88	(26.12)
42	20-Oct-08	6/29/2007	Kapp \$20511.90	Foreman	6.00	75.00	450.00	Laborer - Foreman	49.57	1	50.57	748	17.51	68.08	408.48	(41.52)
42	20-Oct-08	6/29/2007	Kapp \$20511.90	Labor	24.00	65.00	1,560.00	Laborer	42.96	1	43.96	748	17.51	61.47	1,475.28	(84.72)
43	20-Oct-08	6/29/2007	Kapp \$2034.97	Labor	2.00	65.00	130.00	Laborer	42.96	1	43.96	748	17.51	61.47	122.94	(7.06)
40	20-Oct-08	7/7/2007	Kapp \$31814.48	Labor - excavate, separa	26.00	65.00	1,690.00	Laborer	42.96	1	43.96	748	17.51	61.47	1,598.22	(91.78)
40	20-Oct-08	7/7/2007	Kapp \$31814.48	Labor - load and remov	25.50	65.00	1,657.50	Laborer	42.96	1	43.96	748	17.51	61.47	1,567.49	(90.02)
27	15-Jul-08	8/9/2007	Kapp \$9378.60	Foreman	14.00	75.00	1,050.00	Laborer - Foreman	49.57	1	50.57	748	17.51	68.08	953.11	(96.89)
27	15-Jul-08	8/9/2007	Kapp \$9378.60	Laborer	28.00	65.00	1,820.00	Laborer	42.96	1	43.96	748	17.51	61.47	1,721.16	(98.84)
78	13-Mar-09	8/10/2007	Kapp \$95033.40	Foreman	62.00	75.00	4,650.00	Laborer - Foreman	49.57	1	50.57	748	17.51	68.08	4,220.91	(429.09)
78	13-Mar-09	8/10/2007	Kapp \$95033.40	Labor	170.00	65.00	11,050.00	Laborer	42.96	1	43.96	748	17.51	61.47	10,449.90	(600.10)
133	10-Aug-09	10/7/2007	Kapp \$8431.50	Foreman	10.00	75.00	750.00	Laborer - Foreman	49.57	1	50.57	748	17.51	68.08	680.79	(69.21)
133	10-Aug-09	10/7/2007	Kapp \$8431.50	Labor	15.00	65.00	975.00	Laborer	42.96	1	43.96	748	17.51	61.47	922.05	(52.95)
3	6-Mar-08	10/15/2007	Kapp \$2633.40	Foreman	4.00	75.00	300.00	Laborer - Foreman	49.57	1	50.57	748	17.51	68.08	272.32	(27.68)
3	6-Mar-08	10/15/2007	Kapp \$2633.40	Laborer	6.00	65.00	390.00	Laborer	42.96	1	43.96	748	17.51	61.47	368.82	(21.18)
3	6-Mar-08	10/15/2007	Kapp \$2633.40	Pit Man	2.00	70.00	140.00	Laborer	42.96	1	43.96	748	17.51	61.47	122.94	(17.06)
155	22-Jan-10	11/22/2007	Kapp \$3568.95	Foreman	6.00	75.00	450.00	Laborer - Foreman	49.57	1	50.57	748	17.51	68.08	408.48	(41.52)
155	22-Jan-10	11/22/2007	Kapp \$3568.95	Labor	6.00	65.00	390.00	Laborer	42.96	1	43.96	748	17.51	61.47	368.82	(21.18)
152	15-Jan-10	11/23/2007	Kapp \$13952.40	Foreman	16.00	75.00	1,200.00	Laborer - Foreman	49.57	1	50.57	748	17.51	68.08	1,089.27	(110.73)
152	15-Jan-10	11/23/2007	Kapp \$13952.40	Labor	48.00	65.00	3,120.00	Laborer	42.96	1	43.96	748	17.51	61.47	2,950.56	(169.44)
115	18-Jun-09	12/18/2007	Kapp \$45322.20	Foreman	22.00	75.00	1,650.00	Laborer - Foreman	49.57	1	50.57	748	17.51	68.08	1,497.74	(152.26)
115	18-Jun-09	12/18/2007	Kapp \$45322.20	Labor	88.00	65.00	5,720.00	Laborer	42.96	1	43.96	748	17.51	61.47	5,409.36	(310.64)
259	16-Jul-10	1/18/2008	Kapp \$22418.55	Foreman	26.00	75.00	1,950.00	Laborer - Foreman	49.57	1.04	50.61	748	17.51	68.12	1,771.10	(178.90)
156	22-Jan-10	1/18/2008	Kapp \$6049.31	Foreman - Backfill	2.00	75.00	150.00	Laborer - Foreman	49.57	1.04	50.61	748	17.51	68.12	136.24	(13.76)
156	22-Jan-10	1/18/2008	Kapp \$6049.31	Foreman - Excavation	6.50	75.00	487.50	Laborer - Foreman	49.57	1.04	50.61	748	17.51	68.12	442.78	(44.73)
259	16-Jul-10	1/18/2008	Kapp \$22418.55	Labor	40.00	65.00	2,600.00	Laborer	42.96	1.04	44.00	748	17.51	61.51	2,460.40	(139.60)
84	13-Mar-09	1/18/2008	Kapp \$13888.88	Labor	25.00	65.00	1,625.00	Laborer	42.96	1.04	44.00	748	17.51	61.51	1,537.75	(87.25)
156	22-Jan-10	1/18/2008	Kapp \$6049.31	Labor - Backfill	4.00	65.00	260.00	Laborer	42.96	1.04	44.00	748	17.51	61.51	246.04	(13.96)
156	22-Jan-10	1/18/2008	Kapp \$6049.31	Labor - Excavation	6.50	65.00	422.50	Laborer	42.96	1.04	44.00	748	17.51	61.51	399.82	(22.68)
117	18-Jun-09	6/10/2008	Kapp \$65806.13	Foreman	35.00	75.00	2,625.00	Laborer - Foreman	49.57	1.04	50.61	748	17.51	68.12	2,384.17	(240.83)
117	18-Jun-09	6/10/2008	Kapp \$65806.13	Labor	140.00	65.00	9,100.00	Laborer	42.96	1.04	44.00	748	17.51	61.51	8,611.40	(488.60)
84	13-Mar-09	7/22/2008	Kapp \$13888.88	Foreman	15.00	75.00	1,125.00	Laborer - Foreman	49.57	1.04	50.61	748	17.51	68.12	1,021.79	(103.21)
113	18-Jun-09	11/3/2008	Kapp \$23053.80	Foreman	10.00	75.00	750.00	Laborer - Foreman	49.57	1.04	50.61	748	17.51	68.12	681.19	(68.81)
113	18-Jun-09	11/3/2008	Kapp \$23053.80	Labor	40.00	65.00	2,600.00	Laborer	42.96	1.04	44.00	748	17.51	61.51	2,460.40	(139.60)
77	13-Mar-09	11/17/2008	Kapp \$8881.95	Labor	12.00	65.00	780.00	Laborer	42.96	1.04	44.00	748	17.51	61.51	738.12	(41.88)
101	20-Apr-09	1/23/2009	Kapp \$54882.65	Foreman	10.00	75.00	750.00	Laborer - Foreman	49.57	1.078	50.65	748	17.51	68.16	681.57	(68.43)
101	20-Apr-09	1/23/2009	Kapp \$54882.65	Labor	60.00	65.00	3,900.00	Laborer	42.96	1.078	44.04	748	17.51	61.55	3,692.88	(207.12)
234	22-Jun-10	4/30/2009	Kapp \$14737.80	Foreman	10.00	75.00	750.00	Laborer - Foreman	49.57	1.078	50.65	748	17.51	68.16	681.57	(68.43)
234	22-Jun-10	4/30/2009	Kapp \$14737.80	Labor	40.00	65.00	2,600.00	Laborer	42.96	1.078	44.04	748	17.51	61.55	2,461.92	(138.08)
293	1-Nov-10	5/27/2009	Kapp \$7507.50	Foreman	10.00	75.00	750.00	Laborer - Foreman	49.57	1.078	50.65	748	17.51	68.16	681.57	(68.43)
293	1-Nov-10	5/27/2009	Kapp \$7507.50	Labor	10.00	65.00	650.00	Laborer	42.96	1.078	44.04	748	17.51	61.55	615.48	(34.52)
414	31-Jan-11	1/25/2010	Kapp \$37635.68	Foreman	26.60	75.00	1,995.00	Laborer - Foreman	49.57	1.089	50.66	748	17.51	68.17	1,813.27	(181.73)



APPENDIX G - Wage Recalculations

CO	Issue Date	Quote Date	Subcontractor	Description	Labor Hours	Labor Rate	Total Labor	Category	Wage Rate	Year Factor	Adjusted Rate	WSIB Group	WSIB Rate	Billable Wage Rate	Billable Labor	Difference
414	31-Jan-11	1/25/2010	Kapp \$37635.68	Laborer	79.80	65.00	5,187.00	Laborer	42.96	1.089	44.05	748	17.51	61.56	4,912.41	(274.59)
519	29-Apr-11	3/4/2010	Kapp \$8373.75	Foreman	9.00	75.00	675.00	Foreman	49.57	1.089	50.66	748	17.51	68.17	613.51	(61.49)
519	29-Apr-11	3/4/2010	Kapp \$8373.75	Laborer	18.00	65.00	1,170.00	Laborer	42.96	1.089	44.05	748	17.51	61.56	1,108.06	(61.94)
454	11-Apr-11	5/27/2010	Kapp \$5255.25	Foreman	7.00	75.00	525.00	Foreman	49.57	1.089	50.66	748	17.51	68.17	477.18	(47.82)
454	11-Apr-11	5/27/2010	Kapp \$5255.25	Laborer	7.00	65.00	455.00	Laborer	42.96	1.089	44.05	748	17.51	61.56	430.91	(24.09)
308	1-Nov-10	9/17/2010	Kapp \$12023.55	Foreman	15.00	75.00	1,125.00	Foreman	49.57	1.089	50.66	748	17.51	68.17	1,022.52	(102.48)
308	1-Nov-10	9/17/2010	Kapp \$12023.55	Laborer	21.00	65.00	1,365.00	Laborer	42.96	1.089	44.05	748	17.51	61.56	1,292.74	(72.26)
14	4-Jun-08	3/10/2008	Lynx Cabling \$687725	Unit px for labor = \$65/hr	-	-	-	-	-	-	-	-	-	-	-	-
417	14-Mar-11	8/31/2009	Maystar labor	Laborer	4.00	66.00	264.00	Laborer	42.96	1.078	44.04	719	7.19	51.23	204.91	(59.09)
427	14-Mar-11	3/5/2010	Maystar \$66 labor	Laborer	1.00	66.00	66.00	Laborer	42.96	1.089	44.05	719	7.19	51.24	51.24	(14.76)
364	22-Dec-10	6/14/2010	Maystar labor \$3564	Maystar Carpenter	54.00	66.00	3,564.00	Laborer	42.96	1.089	44.05	719	7.19	51.24	2,766.91	(797.09)
397	31-Jan-11	8/16/2010	Maystar \$800	Laborer	9.00	66.00	594.00	Laborer	42.96	1.089	44.05	719	7.19	51.24	461.15	(132.85)
397	31-Jan-11	8/16/2010	Maystar \$800	Laborer	1.50	66.00	99.00	Laborer	42.96	1.089	44.05	719	7.19	51.24	76.86	(22.14)
410	31-Jan-11	12/9/2010	Maystar labor \$924	Forming	8.00	66.00	528.00	Laborer	42.96	1.089	44.05	719	7.19	51.24	409.91	(118.09)
410	31-Jan-11	12/9/2010	Maystar labor \$924	Place concrete	6.00	66.00	396.00	Laborer	42.96	1.089	44.05	719	7.19	51.24	307.43	(88.57)
458	11-Apr-11	3/25/2011	Muia Steel \$1440	Field work	16.00	90.00	1,440.00	Struct Steel Erection	47.42	108.280	155.70	748	17.51	173.21	2,771.36	1,331.36
318	1-Nov-10	4/21/2008	Nelmar \$1091.29	Metal Framer	8.00	74.00	592.00	Plasterer	43.38	1.04	44.42	719	7.19	51.61	412.88	(179.12)
209	27-May	7/16/2008	Nelmar \$4332.65	Drywaller	7.00	74.00	518.00	Plasterer	43.38	1.04	44.42	719	7.19	51.61	361.27	(156.73)
316	1-Nov-10	7/16/2008	Nelmar \$3429.97	Drywaller	8.00	74.00	592.00	Plasterer	43.38	1.04	44.42	719	7.19	51.61	412.88	(179.12)
209	27-May	7/16/2008	Nelmar \$4332.65	Foreman	2.00	89.00	178.00	Foreman	52.17	1.04	53.21	719	7.19	60.40	120.81	(57.19)
316	1-Nov-10	7/16/2008	Nelmar \$3429.97	Foreman	2.00	89.00	178.00	Plasterer - Foreman	52.17	1.04	53.21	719	7.19	60.40	120.81	(57.19)
209	27-May	7/16/2008	Nelmar \$4332.65	Metal Framer	11.00	74.00	814.00	Plasterer	43.38	1.04	44.42	719	7.19	51.61	567.71	(246.29)
316	1-Nov-10	7/16/2008	Nelmar \$3429.97	Metal Framer	13.00	74.00	962.00	Plasterer	43.38	1.04	44.42	719	7.19	51.61	670.93	(291.07)
209	27-May	7/16/2008	Nelmar \$4332.65	Taper	12.00	74.00	888.00	Plasterer	43.38	1.04	44.42	719	7.19	51.61	619.32	(268.68)
316	1-Nov-10	7/16/2008	Nelmar \$3429.97	Taper	16.00	74.00	1,184.00	Plasterer	43.38	1.04	44.42	719	7.19	51.61	825.76	(358.24)
355	22-Dec-10	11/18/2008	Nelmar \$3592.51	Drywaller	10.00	74.00	740.00	Plasterer	43.38	1.04	44.42	719	7.19	51.61	516.10	(223.90)
355	22-Dec-10	11/18/2008	Nelmar \$3592.51	Foreman	3.00	86.00	258.00	Plasterer - Foreman	50.41	1.04	51.45	719	7.19	58.64	175.93	(82.07)
355	22-Dec-10	11/18/2008	Nelmar \$3592.51	Metal Framer	16.00	74.00	1,184.00	Plasterer	43.38	1.04	44.42	719	7.19	51.61	825.76	(358.24)
355	22-Dec-10	11/18/2008	Nelmar \$3592.51	Taper	3.00	74.00	222.00	Plasterer	43.38	1.04	44.42	719	7.19	51.61	154.83	(67.17)
307	1-Nov-10	3/31/2009	Nelmar <\$941.72>	Drywaller	(4.00)	51.00	(204.00)	Plasterer	43.38	1.078	44.46	719	7.19	51.65	(206.59)	(2.59)
317	1-Nov-10	3/31/2009	Nelmar \$3978.92	Foreman	1.00	89.00	89.00	Plasterer - Foreman	52.17	1.078	53.25	719	7.19	60.44	60.44	(28.56)
317	1-Nov-10	3/31/2009	Nelmar \$3978.92	Ins. Installer	8.00	74.00	592.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	413.18	(178.82)
307	1-Nov-10	3/31/2009	Nelmar <\$941.72>	Metal Framer	(4.00)	51.00	(204.00)	Plasterer	43.38	1.078	44.46	719	7.19	51.65	(206.59)	(2.59)
317	1-Nov-10	3/31/2009	Nelmar \$3978.92	Metal Framer	24.00	74.00	1,776.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	1,239.55	(536.45)
307	1-Nov-10	3/31/2009	Nelmar <\$941.72>	Taper	(6.00)	51.00	(306.00)	Plasterer	43.38	1.078	44.46	719	7.19	51.65	(309.89)	(3.89)
320	1-Nov-10	7/20/2009	Nelmar \$3973.31	Drywaller	14.00	74.00	1,036.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	723.07	(312.93)
320	1-Nov-10	7/20/2009	Nelmar \$3973.31	Foreman	2.00	86.00	172.00	Plasterer - Foreman	50.41	1.078	51.49	719	7.19	58.68	117.37	(54.63)
320	1-Nov-10	7/20/2009	Nelmar \$3973.31	Laborer	4.00	74.00	296.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	206.59	(89.41)
320	1-Nov-10	7/20/2009	Nelmar \$3973.31	Metal Framer	16.00	74.00	1,184.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	826.37	(357.63)
320	1-Nov-10	7/20/2009	Nelmar \$3973.31	Taper	8.00	74.00	592.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	413.18	(178.82)
267	23-Aug-10	9/11/2009	Nelmar \$562.47 + fee	Drywaller	1.00	74.00	74.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	51.65	(22.35)
286	1-Nov-10	9/11/2009	Nelmar \$9016.83	Drywaller	40.00	74.00	2,960.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	2,065.92	(894.08)
286	1-Nov-10	9/11/2009	Nelmar \$9016.83	Drywaller	16.00	70.00	1,120.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	826.37	(293.63)
287	1-Nov-10	9/11/2009	Nelmar \$4905.04	Drywaller	6.00	74.00	444.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	309.89	(134.11)
327	1-Nov-10	9/11/2009	Nelmar \$2789.69	Drywaller	8.00	74.00	592.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	413.18	(178.82)
339	2-Dec-10	9/11/2009	Nelmar \$746.42	Drywaller	1.00	74.00	74.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	51.65	(22.35)
350	22-Dec-10	9/11/2009	Nelmar \$3007.71	Drywaller	10.00	70.00	700.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	516.48	(183.52)
365	22-Dec-10	9/11/2009	Nelmar \$8499.46	Drywaller	24.00	74.00	1,776.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	1,239.55	(536.45)
374	22-Dec-10	9/11/2009	Nelmar \$3417.45	Drywaller	8.00	74.00	592.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	413.18	(178.82)
383	22-Dec-10	9/11/2009	Nelmar \$26325.88	Drywaller	112.00	74.00	8,288.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	5,784.58	(2,503.42)
412	31-Jan-11	9/11/2009	Nelmar \$19522.81	Drywaller	16.00	74.00	1,184.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	826.37	(357.63)
412	31-Jan-11	9/11/2009	Nelmar \$19522.81	Drywaller	6.00	70.00	420.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	309.89	(110.11)
452	11-Apr-11	9/11/2009	Nelmar \$667.59	Drywaller	1.00	74.00	74.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	51.65	(22.35)

APPENDIX G - Wage Recalculations

CO	Issue Date	Quote Date	Subcontractor	Description	Labor Hours	Labor Rate	Total Labor	Category	Wage Rate	Year Factor	Adjusted Rate	WSIB Group	WSIB Rate	Billable Wage Rate	Billable Labor	Difference
511	29-Apr-11	9/11/2009	Nelmar \$858.80	Drywall	2.00	74.00	148.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	103.30	(44.70)
515	29-Apr-11	9/11/2009	Nelmar \$13163.55	Drywall	24.00	74.00	1,776.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	1,239.55	(536.45)
517	29-Apr-11	9/11/2009	Nelmar \$1455.23	Drywall	3.00	74.00	222.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	154.94	(67.06)
452	11-Apr-11	9/11/2009	Nelmar \$667.59	Foreman	0.50	86.00	43.00	Plasterer - Foreman	50.41	1.078	51.49	719	7.19	58.68	29.34	(13.66)
321	1-Nov-10	9/11/2009	Nelmar \$1641.56	Foreman	1.00	86.00	86.00	Plasterer - Foreman	50.41	1.078	51.49	719	7.19	58.68	58.68	(27.32)
350	22-Dec-10	9/11/2009	Nelmar \$3007.71	Foreman	1.00	86.00	86.00	Plasterer - Foreman	50.41	1.078	51.49	719	7.19	58.68	58.68	(27.32)
374	22-Dec-10	9/11/2009	Nelmar \$3417.45	Foreman	1.00	86.00	86.00	Plasterer - Foreman	50.41	1.078	51.49	719	7.19	58.68	58.68	(27.32)
412	31-Jan-11	9/11/2009	Nelmar \$19522.81	Foreman	1.00	86.00	86.00	Plasterer - Foreman	50.41	1.078	51.49	719	7.19	58.68	58.68	(27.32)
509	29-Apr-11	9/11/2009	Nelmar \$5408.23	Foreman	1.00	86.00	86.00	Plasterer - Foreman	50.41	1.078	51.49	719	7.19	58.68	58.68	(27.32)
517	29-Apr-11	9/11/2009	Nelmar \$1455.23	Foreman	1.00	86.00	86.00	Plasterer - Foreman	50.41	1.078	51.49	719	7.19	58.68	58.68	(27.32)
272	23-Aug-10	9/11/2009	Nelmar \$8008.99	Foreman	2.00	86.00	172.00	Plasterer - Foreman	50.41	1.078	51.49	719	7.19	58.68	117.37	(54.63)
365	22-Dec-10	9/11/2009	Nelmar \$8499.46	Foreman	2.00	86.00	172.00	Plasterer - Foreman	50.41	1.078	51.49	719	7.19	58.68	117.37	(54.63)
515	29-Apr-11	9/11/2009	Nelmar \$13163.55	Foreman	4.00	86.00	344.00	Plasterer - Foreman	50.41	1.078	51.49	719	7.19	58.68	234.73	(109.27)
339	2-Dec-10	9/11/2009	Nelmar \$746.42	Foreman	0.50	89.00	44.50	Plasterer - Foreman	52.17	1.078	53.25	719	7.19	60.44	30.22	(14.28)
511	29-Apr-11	9/11/2009	Nelmar \$858.80	Foreman	0.50	89.00	44.50	Plasterer - Foreman	52.17	1.078	53.25	719	7.19	60.44	30.22	(14.28)
287	1-Nov-10	9/11/2009	Nelmar \$4905.04	Foreman	2.00	89.00	178.00	Plasterer - Foreman	52.17	1.078	53.25	719	7.19	60.44	120.88	(57.12)
309	1-Nov-10	9/11/2009	Nelmar \$1834.89	Foreman	2.00	89.00	178.00	Plasterer - Foreman	52.17	1.078	53.25	719	7.19	60.44	120.88	(57.12)
412	31-Jan-11	9/11/2009	Nelmar \$19522.81	Foreman	3.00	89.00	267.00	Plasterer - Foreman	52.17	1.078	53.25	719	7.19	60.44	181.32	(85.68)
321	1-Nov-10	9/11/2009	Nelmar \$1641.56	Ins. Installer	4.00	74.00	296.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	206.59	(89.41)
412	31-Jan-11	9/11/2009	Nelmar \$19522.81	Ins. Installer	2.00	70.00	140.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	103.30	(36.70)
327	1-Nov-10	9/11/2009	Nelmar \$2789.69	Laborer	6.00	74.00	444.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	309.89	(134.11)
374	22-Dec-10	9/11/2009	Nelmar \$3417.45	Laborer	4.00	74.00	296.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	206.59	(89.41)
412	31-Jan-11	9/11/2009	Nelmar \$19522.81	Laborer	(7.00)	51.00	(357.00)	Plasterer	43.38	1.078	44.46	719	7.19	51.65	(361.54)	(4.54)
412	31-Jan-11	9/11/2009	Nelmar \$19522.81	Laborer	(26.00)	70.00	(1,820.00)	Plasterer	43.38	1.078	44.46	719	7.19	51.65	(1,342.85)	477.15
267	23-Aug-10	9/11/2009	Nelmar \$562.47 + fee	Metal Framer	1.00	74.00	74.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	51.65	(22.35)
272	23-Aug-10	9/11/2009	Nelmar \$8008.99	Metal Framer	48.00	74.00	3,552.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	2,479.10	(1,072.90)
286	1-Nov-10	9/11/2009	Nelmar \$9016.83	Metal Framer	20.00	74.00	1,480.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	1,032.96	(447.04)
287	1-Nov-10	9/11/2009	Nelmar \$4905.04	Metal Framer	24.00	70.00	1,680.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	1,239.55	(440.45)
287	1-Nov-10	9/11/2009	Nelmar \$4905.04	Metal Framer	10.00	74.00	740.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	516.48	(223.52)
309	1-Nov-10	9/11/2009	Nelmar \$1834.89	Metal Framer	14.00	74.00	1,036.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	723.07	(312.93)
321	1-Nov-10	9/11/2009	Nelmar \$1641.56	Metal Framer	12.00	74.00	888.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	619.78	(268.22)
327	1-Nov-10	9/11/2009	Nelmar \$2789.69	Metal Framer	16.00	74.00	1,184.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	826.37	(357.63)
339	2-Dec-10	9/11/2009	Nelmar \$746.42	Metal Framer	3.00	74.00	222.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	154.94	(67.06)
350	22-Dec-10	9/11/2009	Nelmar \$3007.71	Metal Framer	9.00	70.00	630.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	464.83	(165.17)
365	22-Dec-10	9/11/2009	Nelmar \$8499.46	Metal Framer	32.00	74.00	2,368.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	1,652.74	(715.26)
374	22-Dec-10	9/11/2009	Nelmar \$3417.45	Metal Framer	16.00	74.00	1,184.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	826.37	(357.63)
412	31-Jan-11	9/11/2009	Nelmar \$19522.81	Metal Framer	42.00	74.00	3,108.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	2,169.22	(938.78)
412	31-Jan-11	9/11/2009	Nelmar \$19522.81	Metal Framer	4.00	70.00	280.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	206.59	(73.41)
416	14-Mar-11	9/11/2009	Nelmar \$671.62	Metal Framer	4.00	74.00	296.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	206.59	(89.41)
452	11-Apr-11	9/11/2009	Nelmar \$667.59	Metal Framer	3.00	74.00	222.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	154.94	(67.06)
509	29-Apr-11	9/11/2009	Nelmar \$5408.23	Metal Framer	32.00	74.00	2,368.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	1,652.74	(715.26)
511	29-Apr-11	9/11/2009	Nelmar \$858.80	Metal Framer	2.00	74.00	148.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	103.30	(44.70)
515	29-Apr-11	9/11/2009	Nelmar \$13163.55	Metal Framer	40.00	74.00	2,960.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	2,065.92	(894.08)
517	29-Apr-11	9/11/2009	Nelmar \$1455.23	Metal Framer	4.00	74.00	296.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	206.59	(89.41)
267	23-Aug-10	9/11/2009	Nelmar \$562.47 + fee	Taper	4.00	74.00	296.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	206.59	(89.41)
287	1-Nov-10	9/11/2009	Nelmar \$4905.04	Taper	8.00	74.00	592.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	413.18	(178.82)
339	2-Dec-10	9/11/2009	Nelmar \$746.42	Taper	2.00	74.00	148.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	103.30	(44.70)

APPENDIX G - Wage Recalculations

CO	Issue Date	Quote Date	Subcontractor	Description	Labor Hours	Labor Rate	Total Labor	Category	Wage Rate	Year Factor	Adjusted Rate	WSIB Group	WSIB Rate	Billable Wage Rate	Billable Labor	Difference
350	22-Dec-10	9/11/2009	Nelmar \$3007.71	Taper	8.00	70.00	560.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	413.18	(146.82)
365	22-Dec-10	9/11/2009	Nelmar \$8499.46	Taper	28.00	74.00	2,072.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	1,446.14	(625.86)
383	22-Dec-10	9/11/2009	Nelmar \$26325.88	Taper	124.00	74.00	9,176.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	6,404.35	(2,771.65)
412	31-Jan-11	9/11/2009	Nelmar \$19522.81	Taper	22.00	74.00	1,628.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	1,136.26	(491.74)
412	31-Jan-11	9/11/2009	Nelmar \$19522.81	Taper	6.00	70.00	420.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	309.89	(110.11)
416	14-Mar-11	9/11/2009	Nelmar \$671.62	Taper	2.00	74.00	148.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	103.30	(44.70)
452	11-Apr-11	9/11/2009	Nelmar \$667.59	Taper	2.00	74.00	148.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	103.30	(44.70)
511	29-Apr-11	9/11/2009	Nelmar \$858.80	Taper	3.00	74.00	222.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	154.94	(67.06)
515	29-Apr-11	9/11/2009	Nelmar \$13163.55	Taper	32.00	74.00	2,368.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	1,652.74	(715.26)
517	29-Apr-11	9/11/2009	Nelmar \$1455.23	Taper	6.00	74.00	444.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	309.89	(134.11)
263	23-Aug-10	11/24/2009	Nelmar \$146296.71	Drywall	172.00	74.00	12,728.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	8,883.46	(3,844.54)
263	23-Aug-10	11/24/2009	Nelmar \$146296.71	Drywall	144.00	70.00	10,080.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	7,437.31	(2,642.69)
278	24-Sep-10	11/24/2009	Nelmar \$4992.85	Drywall	12.00	74.00	888.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	619.78	(268.22)
349	2-Dec-10	11/24/2009	Nelmar \$1437.13	Drywall	4.00	74.00	296.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	206.59	(89.41)
425	14-Mar-11	11/24/2009	Nelmar \$1909.80	Drywall	6.00	74.00	444.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	309.89	(134.11)
349	2-Dec-10	11/24/2009	Nelmar \$1437.13	Foreman	1.00	86.00	86.00	Plasterer - Foreman	50.41	1.078	51.49	719	7.19	58.68	58.68	(27.32)
425	14-Mar-11	11/24/2009	Nelmar \$1909.80	Foreman	1.00	86.00	86.00	Plasterer - Foreman	50.41	1.078	51.49	719	7.19	58.68	58.68	(27.32)
263	23-Aug-10	11/24/2009	Nelmar \$146296.71	Foreman	50.50	86.00	4,343.00	Plasterer - Foreman	50.41	1.078	51.49	719	7.19	58.68	2,963.47	(1,379.53)
278	24-Sep-10	11/24/2009	Nelmar \$4992.85	Labor	12.00	74.00	888.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	619.78	(268.22)
263	23-Aug-10	11/24/2009	Nelmar \$146296.71	Metal Framer	270.00	74.00	19,980.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	13,944.96	(6,035.04)
263	23-Aug-10	11/24/2009	Nelmar \$146296.71	Metal Framer	192.00	70.00	13,440.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	9,916.42	(3,523.58)
278	24-Sep-10	11/24/2009	Nelmar \$4992.85	Metal Framer	14.00	74.00	1,036.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	723.07	(312.93)
349	2-Dec-10	11/24/2009	Nelmar \$1437.13	Metal Framer	8.00	74.00	592.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	413.18	(178.82)
425	14-Mar-11	11/24/2009	Nelmar \$1909.80	Metal Framer	10.00	74.00	740.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	516.48	(223.52)
263	23-Aug-10	11/24/2009	Nelmar \$146296.71	Taper	144.00	74.00	10,656.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	7,437.31	(3,218.69)
263	23-Aug-10	11/24/2009	Nelmar \$146296.71	Taper	192.00	70.00	13,440.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	9,916.42	(3,523.58)
278	24-Sep-10	11/24/2009	Nelmar \$4992.85	Taper	14.00	74.00	1,036.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	723.07	(312.93)
425	14-Mar-11	11/24/2009	Nelmar \$1909.80	Taper	2.00	74.00	148.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	103.30	(44.70)
230	22-Jun-10	12/15/2009	Nelmar \$10215.19	Drywall	36.00	74.00	2,664.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	1,859.33	(804.67)
230	22-Jun-10	12/15/2009	Nelmar \$10215.19	Labor	24.00	74.00	1,776.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	1,239.55	(536.45)
230	22-Jun-10	12/15/2009	Nelmar \$10215.19	Metal Framer	30.00	74.00	2,220.00	Plasterer	43.38	1.078	44.46	719	7.19	51.65	1,549.44	(670.56)
232	22-Jun-10	2/16/2010	Nelmar \$9180.38	Drywall	18.00	74.00	1,332.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	929.86	(402.14)
232	22-Jun-10	2/16/2010	Nelmar \$9180.38	Metal Framer	21.00	74.00	1,554.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	1,084.84	(469.16)
232	22-Jun-10	2/16/2010	Nelmar \$9180.38	Taper	18.00	74.00	1,332.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	929.86	(402.14)
423	14-Mar-11	3/24/2010	Nelmar \$1116.09	Drywall	2.00	74.00	148.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	103.32	(44.68)
423	14-Mar-11	3/24/2010	Nelmar \$1116.09	Metal Framer	4.00	74.00	296.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	206.64	(89.36)
423	14-Mar-11	3/24/2010	Nelmar \$1116.09	Taper	3.00	74.00	222.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	154.98	(67.02)
304	1-Nov-10	3/29/2010	Nelmar \$1899.74	Drywall	4.00	70.00	280.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	206.64	(73.36)
304	1-Nov-10	3/29/2010	Nelmar \$1899.74	Foreman	1.00	86.00	86.00	Plasterer - Foreman	50.41	1.089	51.50	719	7.19	58.69	58.69	(27.31)
304	1-Nov-10	3/29/2010	Nelmar \$1899.74	Metal Framer	6.00	70.00	420.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	309.95	(110.05)
304	1-Nov-10	3/29/2010	Nelmar \$1899.74	Taper	8.00	70.00	560.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	413.27	(146.73)
219	27-May	4/12/2010	Nelmar \$16002.31	Drywall	34.00	74.00	2,516.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	1,756.41	(759.59)
219	27-May	4/12/2010	Nelmar \$16002.31	Foreman	8.00	86.00	688.00	Plasterer - Foreman	50.41	1.089	51.50	719	7.19	58.69	469.55	(218.45)
219	27-May	4/12/2010	Nelmar \$16002.31	Metal Framer	37.00	74.00	2,738.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	1,911.38	(826.62)
219	27-May	4/12/2010	Nelmar \$16002.31	Taper	43.00	74.00	3,182.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	2,221.34	(960.66)
295	1-Nov-10	4/14/2010	Nelmar \$8645.69	Drywall	24.00	74.00	1,776.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	1,239.82	(536.18)
296	1-Nov-10	4/14/2010	Nelmar \$2520.09	Drywall	10.00	74.00	740.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	516.59	(223.41)
295	1-Nov-10	4/14/2010	Nelmar \$8645.69	Foreman	2.00	86.00	172.00	Plasterer - Foreman	50.41	1.089	51.50	719	7.19	58.69	117.39	(54.61)
296	1-Nov-10	4/14/2010	Nelmar \$2520.09	Foreman	2.00	86.00	172.00	Plasterer - Foreman	50.41	1.089	51.50	719	7.19	58.69	117.39	(54.61)
296	1-Nov-10	4/14/2010	Nelmar \$2520.09	Labor	3.00	74.00	222.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	154.98	(67.02)
295	1-Nov-10	4/14/2010	Nelmar \$8645.69	Metal Framer	16.00	74.00	1,184.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	826.54	(357.46)
295	1-Nov-10	4/14/2010	Nelmar \$8645.69	Taper	24.00	74.00	1,776.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	1,239.82	(536.18)
296	1-Nov-10	4/14/2010	Nelmar \$2520.09	Taper	6.00	74.00	444.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	309.95	(134.05)
294	1-Nov-10	4/24/2010	Nelmar \$10009.07	Foreman	8.00	89.00	712.00	Plasterer - Foreman	52.17	1.089	53.26	719	7.19	60.45	483.62	(228.38)

APPENDIX G - Wage Recalculations

CO	Issue Date	Quote Date	Subcontractor	Description	Labor Hours	Labor Rate	Total Labor	Category	Wage Rate	Year Factor	Adjusted Rate	WSIB Group	WSIB Rate	Billable Wage Rate	Billable Labor	Difference
294	1-Nov-10	4/24/2010	Nelmar \$10009.07	Metal Framer	64.00	74.00	4,736.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	3,306.18	(1,429.82)
359	22-Dec-10	11/12/2010	Nelmar <\$900.44>	Drywaller	(4.00)	51.00	(204.00)	Plasterer	43.38	1.089	44.47	719	7.19	51.66	(206.64)	(2.64)
359	22-Dec-10	11/12/2010	Nelmar <\$900.44>	Metal Framer	(4.00)	51.00	(204.00)	Plasterer	43.38	1.089	44.47	719	7.19	51.66	(206.64)	(2.64)
359	22-Dec-10	11/12/2010	Nelmar <\$900.44>	Taper	(4.00)	70.00	(280.00)	Plasterer	43.38	1.089	44.47	719	7.19	51.66	(206.64)	73.36
390	22-Dec-10	11/18/2010	Nelmar \$1233.92	Drywaller	4.00	74.00	296.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	206.64	(89.36)
413	31-Jan-11	11/18/2010	Nelmar \$2359.91	Drywaller	6.00	74.00	444.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	309.95	(134.05)
429	14-Mar-11	11/18/2010	Nelmar \$6936.39	Drywaller	12.00	74.00	888.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	619.91	(268.09)
457	11-Apr-11	11/18/2010	Nelmar \$3291.60	Drywaller	8.00	74.00	592.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	413.27	(178.73)
390	22-Dec-10	11/18/2010	Nelmar \$1233.92	Foreman	1.00	86.00	86.00	Plasterer - Foreman	50.41	1.089	51.50	719	7.19	58.69	58.69	(27.31)
413	31-Jan-11	11/18/2010	Nelmar \$2359.91	Foreman	1.00	86.00	86.00	Plasterer - Foreman	50.41	1.089	51.50	719	7.19	58.69	58.69	(27.31)
457	11-Apr-11	11/18/2010	Nelmar \$3291.60	Foreman	1.00	86.00	86.00	Plasterer - Foreman	50.41	1.089	51.50	719	7.19	58.69	58.69	(27.31)
429	14-Mar-11	11/18/2010	Nelmar \$6936.39	Foreman	3.00	86.00	258.00	Plasterer - Foreman	50.41	1.089	51.50	719	7.19	58.69	176.08	(81.92)
390	22-Dec-10	11/18/2010	Nelmar \$1233.92	Metal Framer	4.00	74.00	296.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	206.64	(89.36)
413	31-Jan-11	11/18/2010	Nelmar \$2359.91	Metal Framer	6.00	74.00	444.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	309.95	(134.05)
429	14-Mar-11	11/18/2010	Nelmar \$6936.39	Metal Framer	32.00	74.00	2,368.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	1,653.09	(714.91)
457	11-Apr-11	11/18/2010	Nelmar \$3291.60	Metal Framer	12.00	74.00	888.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	619.91	(268.09)
390	22-Dec-10	11/18/2010	Nelmar \$1233.92	Taper	4.00	74.00	296.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	206.64	(89.36)
413	31-Jan-11	11/18/2010	Nelmar \$2359.91	Taper	10.00	74.00	740.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	516.59	(223.41)
429	14-Mar-11	11/18/2010	Nelmar \$6936.39	Taper	24.00	74.00	1,776.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	1,239.82	(536.18)
457	11-Apr-11	11/18/2010	Nelmar \$3291.60	Taper	12.00	74.00	888.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	619.91	(268.09)
537	29-Apr-11	11/19/2010	Nelmar \$6162.72	Drywaller	(14.00)	51.00	(714.00)	Plasterer	43.38	1.089	44.47	719	7.19	51.66	(723.23)	(9.23)
537	29-Apr-11	11/19/2010	Nelmar \$6162.72	Drywaller	22.00	74.00	1,628.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	1,136.50	(491.50)
537	29-Apr-11	11/19/2010	Nelmar \$6162.72	Foreman	(3.00)	52.00	(156.00)	Plasterer - Foreman	50.41	1.089	51.50	719	7.19	58.69	(176.08)	(20.08)
392	22-Dec-10	11/19/2010	Nelmar \$349.99	Foreman	0.50	86.00	43.00	Plasterer - Foreman	50.41	1.089	51.50	719	7.19	58.69	29.35	(13.65)
537	29-Apr-11	11/19/2010	Nelmar \$6162.72	Foreman	4.00	86.00	344.00	Plasterer - Foreman	50.41	1.089	51.50	719	7.19	58.69	234.77	(109.23)
537	29-Apr-11	11/19/2010	Nelmar \$6162.72	Metal Framer	(40.00)	51.00	(2,040.00)	Plasterer	43.38	1.089	44.47	719	7.19	51.66	(2,066.36)	(26.36)
537	29-Apr-11	11/19/2010	Nelmar \$6162.72	Metal Framer	52.00	74.00	3,848.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	2,686.27	(1,161.73)
392	22-Dec-10	11/19/2010	Nelmar \$349.99	Taper	3.00	74.00	222.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	154.98	(67.02)
537	29-Apr-11	11/19/2010	Nelmar \$6162.72	Taper	(16.00)	51.00	(816.00)	Plasterer	43.38	1.089	44.47	719	7.19	51.66	(826.54)	(10.54)
537	29-Apr-11	11/19/2010	Nelmar \$6162.72	Taper	22.00	74.00	1,628.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	1,136.50	(491.50)
537	29-Apr-11	11/19/2010	Nelmar \$6162.72	Taper	9.00	70.00	630.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	464.93	(165.07)
366	22-Dec-10	11/22/2010	Nelmar \$2721.32	Drywaller	8.00	74.00	592.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	413.27	(178.73)
397	31-Jan-11	11/22/2010	Nelmar \$2975.82	Drywaller	6.00	74.00	444.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	309.95	(134.05)
481	27-Apr-11	11/22/2010	Nelmar \$3805.71	Drywaller	8.00	74.00	592.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	413.27	(178.73)
523	29-Apr-11	11/22/2010	Nelmar \$802.96	Drywaller	4.00	74.00	296.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	206.64	(89.36)
523	29-Apr-11	11/22/2010	Nelmar \$802.96	Foreman	0.50	86.00	43.00	Plasterer - Foreman	50.41	1.089	51.50	719	7.19	58.69	29.35	(13.65)
366	22-Dec-10	11/22/2010	Nelmar \$2721.32	Foreman	1.00	86.00	86.00	Plasterer - Foreman	50.41	1.089	51.50	719	7.19	58.69	58.69	(27.31)
397	31-Jan-11	11/22/2010	Nelmar \$2975.82	Foreman	1.00	86.00	86.00	Plasterer - Foreman	50.41	1.089	51.50	719	7.19	58.69	58.69	(27.31)
481	27-Apr-11	11/22/2010	Nelmar \$3805.71	Foreman	1.00	86.00	86.00	Plasterer - Foreman	50.41	1.089	51.50	719	7.19	58.69	58.69	(27.31)
366	22-Dec-10	11/22/2010	Nelmar \$2721.32	Ins. Installer	1.00	74.00	74.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	51.66	(22.34)
397	31-Jan-11	11/22/2010	Nelmar \$2975.82	Ins. Installer	2.00	74.00	148.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	103.32	(44.68)
366	22-Dec-10	11/22/2010	Nelmar \$2721.32	Metal Framer	8.00	74.00	592.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	413.27	(178.73)
397	31-Jan-11	11/22/2010	Nelmar \$2975.82	Metal Framer	14.00	74.00	1,036.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	723.23	(312.77)
481	27-Apr-11	11/22/2010	Nelmar \$3805.71	Metal Framer	16.00	74.00	1,184.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	826.54	(357.46)
523	29-Apr-11	11/22/2010	Nelmar \$802.96	Metal Framer	4.00	74.00	296.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	206.64	(89.36)
366	22-Dec-10	11/22/2010	Nelmar \$2721.32	Taper	8.00	74.00	592.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	413.27	(178.73)
397	31-Jan-11	11/22/2010	Nelmar \$2975.82	Taper	8.00	74.00	592.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	413.27	(178.73)
481	27-Apr-11	11/22/2010	Nelmar \$3805.71	Taper	12.00	74.00	888.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	619.91	(268.09)
523	29-Apr-11	11/22/2010	Nelmar \$802.96	Taper	10.00	74.00	740.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	516.59	(223.41)
535	29-Apr-11	11/23/2010	Nelmar \$1978.88	Drywaller	4.00	74.00	296.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	206.64	(89.36)
538	29-Apr-11	11/23/2010	Nelmar \$2170.23	Drywaller	4.00	74.00	296.00	Plasterer	43.38	1.089	44.47	719	7.19	51.66	206.64	(89.36)









APPENDIX G - Wage Recalculations

CO	Issue Date	Quote Date	Subcontractor	Description	Labor Hours	Labor Rate	Total Labor	Category	Wage Rate	Year Factor	Adjusted Rate	WSIB Group	WSIB Rate	Billable Wage Rate	Billable Labor	Difference
385	22-Dec-10	10/28/2010	Pipe All \$7510.37	Stub out	6.00	85.00	510.00	Plumber	54.03	1.089	55.12	707	3.98	59.10	354.59	(155.41)
387	22-Dec-10	12/2/2010	Pipe All \$4495.03	New float assembly for	12.00	85.00	1,020.00	Plumber	54.03	1.089	55.12	707	3.98	59.10	709.19	(310.81)
540	29-Apr-11	12/9/2010	Pipe All \$1536.15	Review with Accel and	3.00	95.00	285.00	Plumber	54.03	1.089	55.12	707	3.98	59.10	177.30	(107.70)
540	29-Apr-11	12/9/2010	Pipe All \$1536.15	Review with Consultant	5.00	95.00	475.00	Plumber	54.03	1.089	55.12	707	3.98	59.10	295.50	(179.51)
540	29-Apr-11	12/9/2010	Pipe All \$1536.15	Review with Engineered	3.00	95.00	285.00	Plumber	54.03	1.089	55.12	707	3.98	59.10	177.30	(107.70)
540	29-Apr-11	12/9/2010	Pipe All \$1536.15	Take photos of equip pl	3.00	95.00	285.00	Plumber	54.03	1.089	55.12	707	3.98	59.10	177.30	(107.70)
498	27-Apr-11	1/26/2011	Pipe All \$47659.85	Labor for A/C	54.00	85.00	4,590.00	Plumber	54.03	108.280	162.31	707	3.98	166.29	8,979.66	4,389.66
468	11-Apr-11	3/2/2011	Pipe All \$4460.25	Labor - fridge	16.00	90.00	1,440.00	Plumber	54.03	108.280	162.31	707	3.98	166.29	2,660.64	1,220.64
468	11-Apr-11	3/2/2011	Pipe All \$4460.25	Labor - coffee machine	20.00	90.00	1,800.00	Plumber	54.03	108.280	162.31	707	3.98	166.29	3,325.80	1,525.80
526	29-Apr-11	3/28/2011	Pipe All \$1097.25	Reconfigure gas piping	10.00	95.00	950.00	Plumber	54.03	108.280	162.31	707	3.98	166.29	1,662.90	712.90
539	29-Apr-11	4/13/2011	Pipe All \$5839.56	Calculate new oil level d	6.00	105.00	630.00	Plumber	54.03	108.280	162.31	707	3.98	166.29	997.74	367.74
539	29-Apr-11	4/13/2011	Pipe All \$5839.56	New float assembly for	14.00	90.00	1,260.00	Plumber	54.03	108.280	162.31	707	3.98	166.29	2,328.06	1,068.06
513	29-Apr-11	3/4/2010	Platinum \$1805	Painting	25.00	65.00	1,625.00	Painter	43.00	1.089	44.09	719	7.19	51.28	1,281.98	(343.03)
515	29-Apr-11	5/3/2010	Platinum \$870	Painting	12.00	65.00	780.00	Painter	43.00	1.089	44.09	719	7.19	51.28	615.35	(164.65)
429	14-Mar-11	11/18/2010	Platinum \$930	Painting	12.00	65.00	780.00	Painter	43.00	1.089	44.09	719	7.19	51.28	615.35	(164.65)
444	14-Mar-11	12/17/2010	Platinum \$1680	Painting	24.00	65.00	1,560.00	Painter	43.00	1.089	44.09	719	7.19	51.28	1,230.70	(329.30)
465	11-Apr-11	12/17/2010	Platinum \$580	Painting	8.00	65.00	520.00	Painter	43.00	1.089	44.09	719	7.19	51.28	410.23	(109.77)
439	14-Mar-11	1/19/2011	Platinum \$1070 quote	Painting	16.00	65.00	1,040.00	Painter	43.00	108.280	151.28	719	7.19	158.47	2,535.52	1,495.52
446	14-Mar-11	1/19/2011	Platinum \$550	Painting	8.00	65.00	520.00	Painter	43.00	108.280	151.28	719	7.19	158.47	1,267.76	747.76
493	27-Apr-11	1/19/2011	Platinum \$580	Painting	8.00	65.00	520.00	Painter	43.00	108.280	151.28	719	7.19	158.47	1,267.76	747.76
495	27-Apr-11	1/24/2011	Platinum \$580	Painting	8.00	65.00	520.00	Painter	43.00	108.280	151.28	719	7.19	158.47	1,267.76	747.76
499	27-Apr-11	1/24/2011	Platinum \$290	Painting	4.00	65.00	260.00	Painter	43.00	108.280	151.28	719	7.19	158.47	633.88	373.88
537	29-Apr-11	1/24/2011	Platinum \$1710	Painting	24.00	65.00	1,560.00	Painter	43.00	108.280	151.28	719	7.19	158.47	3,803.28	2,243.28
425	14-Mar-11	3/4/2011	Platinum \$160	Painting	2.00	65.00	130.00	Painter	43.00	108.280	151.28	719	7.19	158.47	316.94	186.94
466	11-Apr-11	3/4/2011	Platinum \$290	Painting	4.00	65.00	260.00	Painter	43.00	108.280	151.28	719	7.19	158.47	633.88	373.88
468	11-Apr-11	3/4/2011	Platinum \$160	Painting	2.00	65.00	130.00	Painter	43.00	108.280	151.28	719	7.19	158.47	316.94	186.94
517	29-Apr-11	3/4/2011	Platinum \$290	Painting	4.00	65.00	260.00	Painter	43.00	108.280	151.28	719	7.19	158.47	633.88	373.88
525	29-Apr-11	3/4/2011	Platinum \$1000	Painting	14.00	65.00	910.00	Painter	43.00	108.280	151.28	719	7.19	158.47	2,218.58	1,308.58
492	27-Apr-11	3/21/2011	Platinum \$320	Painting	6.00	65.00	390.00	Painter	43.00	108.280	151.28	719	7.19	158.47	950.82	560.82
229	22-Jun-10	2/9/2010	Ritz \$4582.73	Labor	16.00	80.50	1,288.00	Laborer	42.96	1.089	44.05	719	7.19	51.24	819.82	(468.18)
238	22-Jun-10	4/9/2010	Ritz \$14508.30	Labor	2.83	54.60	154.70	Laborer	42.96	1.089	44.05	719	7.19	51.24	145.18	(9.52)
238	22-Jun-10	4/9/2010	Ritz \$14508.30	Labor	186	54.60	10,172.80	Laborer	42.96	1.089	44.05	719	7.19	51.24	9,546.59	(626.20)
55	17-Nov-08	5/31/2007	Sherway Excavation for	Laborer	8.00	35.00	280.00	Laborer	42.96	1	43.96	748	17.51	61.47	491.76	211.76
518	29-Apr-11	3/7/2011	Stefcon \$69180	Masonry Foreman - wal	80.00	95.98	7,678.40	Bricklayer	47.91	108.280	156.19	741	12.15	168.34	13,467.20	5,788.80
518	29-Apr-11	3/7/2011	Stefcon \$69180	Mason - wall stone	240.00	70.09	16,821.60	Bricklayer	47.91	108.280	156.19	741	12.15	168.34	40,401.60	23,580.00
518	29-Apr-11	3/7/2011	Stefcon \$69180	Laborer - wall stone	160.00	65.26	10,440.80	Bricklayer	47.91	108.280	156.19	741	12.15	168.34	26,934.40	16,493.60
518	29-Apr-11	3/7/2011	Stefcon \$69180	Masonry Foreman - cop	16.00	95.98	1,535.68	Bricklayer	47.91	108.280	156.19	741	12.15	168.34	2,693.44	1,157.76
518	29-Apr-11	3/7/2011	Stefcon \$69180	Mason - coping	34.00	65.97	2,242.88	Bricklayer	47.91	108.280	156.19	741	12.15	168.34	5,723.56	3,480.68
518	29-Apr-11	3/7/2011	Stefcon \$69180	Laborer - coping	34.00	61.77	2,100.16	Bricklayer	47.91	108.280	156.19	741	12.15	168.34	5,723.56	3,623.40
243	22-Jun-10	9/24/2008	Vixman \$1470	Install steel studs	9.00	78.00	702.00	Carpenter	49.08	1.04	50.12	719	7.19	57.31	515.79	(186.21)
243	22-Jun-10	9/24/2008	Vixman \$1470	Install steel studs	9.00	60.00	540.00	Carpenter	49.08	1.04	50.12	719	7.19	57.31	515.79	(24.21)
															2,125,433.57	(461,907.69)



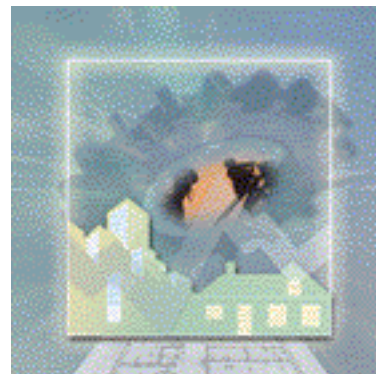
# APPENDIX H

## Labor Rate Data

Catalogue no. 62-007-X

# Capital Expenditure Price Statistics

July to September 2010



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Statistics Canada  
Producer Prices Division

# Capital Expenditure Price Statistics

July to September 2010

Published by authority of the Minister responsible for Statistics Canada

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#### **Note of appreciation**

*Canada owes the success of its statistical system to a long-standing partnership between Statistics Canada, the citizens of Canada, its businesses, governments and other institutions. Accurate and timely statistical information could not be produced without their continued cooperation and goodwill.*

# User information

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## Symbols

The following standard symbols are used in Statistics Canada publications:

- . not available for any reference period
- .. not available for a specific reference period
- ... not applicable
- 0 true zero or a value rounded to zero
- 0<sup>s</sup> value rounded to 0 (zero) where there is a meaningful distinction between true zero and the value that was rounded
- p preliminary
- r revised
- x suppressed to meet the confidentiality requirements of the *Statistics Act*
- E use with caution
- F too unreliable to be published

## Note to users

Tables 1 and 2 of this publication have been updated with Industrial product price indexes (IPPI) based in 2002=100. Starting with the release of the August 2010 reference month data, the basket of goods used to calculate the IPPI was updated to reflect the sales and expenditures in 2002. This update is to better reflect important changes in production patterns of manufacturers in Canada. The basket must be changed from time to time to ensure that too much importance is not given to some products and too little to others.

The update includes two major changes: the weights of various items in the basket of goods used to calculate the index, which was based on 1997 data, will now be based on 2002 data; and the IPPI base year (the period for which the value 100 is assigned to the index) has changed from 1997 to 2002.

A vector number concordance table between the series contained in the new and old tables is available.

### Target release dates for series

Series title	Reference period of data release					
	4 <sup>th</sup> Quarter 2010			1 <sup>st</sup> Quarter 2011		
	October	November	December	January	February	March
Construction union wage rates	Nov. 18, 2010	Dec. 16, 2010	Jan. 20, 2011	Feb. 17, 2011	Mar. 17, 2011	Apr. 21, 2011
New housing	Dec. 9, 2010	Jan. 12, 2011	Feb. 10, 2011	Mar. 9, 2011	Apr. 12, 2011	May 12, 2011
Apartment buildings	...	Feb. 18, 2011	...	...	May 20, 2011	...
Non-residential buildings	...	Feb. 15, 2011	...	...	May 17, 2011	...
Machinery and equipment	...	Feb. 24, 2011	...	...	May 26, 2011	...
Electric utility construction (Annual 2010)	...	...	...	...	Apr. 7, 2011	...
Consulting engineering services (2009 preliminary data)	...	Dec. 8, 2010	...	...	...	...

# Highlights

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## Third Quarter 2010

- The New Housing Price Index (1997=100) increased 0.2% in the third quarter of 2010, down from the previous increase of 0.7%. The Atlantic Region (+0.3%), Quebec (+0.7%), Ontario (+0.4%) and the Prairie Region (+0.1%) all posted increases, while British Columbia posted its first decrease since the second quarter of 2009 (-0.8%).
- The composite price index for non-residential building construction remained steady in the third quarter, edging up 0.1% over the previous quarter. Year-over-year, the composite price index for non-residential building construction was up by 1.0%.
- The Machinery and Equipment Price Index (MEPI) increased by 0.7% in the third quarter. The import component increased by 1.1% over this period, while the domestic component rose by 0.1%. Compared with the third quarter of 2009, the total MEPI fell by 3.5% with the import component declining by 5.2%. The domestic component decreased by 0.5% for this period.
- The Consulting Engineering Services Price Index (CESPI) is now available for 2009. The CESPI increased 0.4% in 2009 compared with 2008.

# Introduction

---

This report contains measures of price change for four major categories:

1. elements of construction costs
2. outputs of construction industries
3. capital expenditures
4. consulting engineering

Elements of construction costs include price indexes for the industries that produce most of the construction materials in Canada and unionized building trades workers.

Measures of price change for the outputs of construction industries cover houses (table 5), apartment construction (table 6) and selected non-residential buildings (table 7).

Price changes for capital expenditures are classified, as in the System of National Accounts, into construction and machinery and equipment. When combined with overhead costs, they become plant price indexes. Measures applying to total capitalized cost for certain categories of investment are shown in table 9 for electric utilities.

Consulting Engineering Services Price Indexes (table 10) are published for ten fields of specialization as well as for regional, domestic and foreign markets.

## Uses

These measures are useful in analysing price change in construction and fixed capital formation, for contract escalation and for estimates of reproduction cost, either for recosting budgets or for revaluing fixed assets. Data quality, concepts and methodology describing the concepts and practices used in price index preparation are included.

## Index formula

Price indexes in this publication have been calculated using either a fixed weight formula or the Chain-Laspeyres index formula of the following general type. (See I and II)

### Fixed weight

$$I_t = \sum_{i=1}^n W_i (P_{t/o})_i$$

$$W_i = \frac{(P_o \cdot Q_k)_i}{\sum_{i=1}^n (P_o \cdot Q_k)_i}; \quad \sum_{i=1}^n W_i = 1.00$$



Where,

$I_t$  = price index in time  $t$  relative to time base period  $o$

$W_i$  = relative importance of the  $i$ -th component

$(P_{t/o})_i$  = price relative of the  $i$ -th component in time  $t$   
relative to time base period  $o$

$(P_o.Q_k)_i$  = total expenditure in period  $k$  on the  $i$ -th  
component expressed in base period prices

$\sum_{i=1}^n$  = summation over all components  
 $i = 1, 2, \dots, n.$

### Chain-Laspeyres Index

$$I_t = \frac{\sum_{i=1}^n I_{i(t)} W_{i(t-1)}}{\sum_{i=1}^n I_{i(t-1)} W_{i(t-1)}} \times \frac{\sum_{i=1}^n I_{i(t-1)} W_{i(t-2)}}{\sum_{i=1}^n I_{i(t-2)} W_{i(t-2)}} \times \dots = \frac{\sum_{i=1}^n I_{i(t)} W_{i(t-1)}}{\sum_{i=1}^n I_{i(t-1)} W_{i(t-1)}} \times I_{(t-1)}$$

Where,

$I_{i(t)}$  = Price index of the  $i$ -th component in time  $t$  which  
may also be calculated in a similar manner to  $I_t$

$W_{i(t)}$  = Relative importance of the  $i$ -th component in time  $t$

$$\sum_{i=1}^n W_i = 1.00$$

Note in the above that the Chain-Laspeyres index formula is used to reflect the changing relative importance of index component. The above example showing a single level of index aggregation can be extended to two or more levels.

### Availability of indexes

Unless otherwise stated, statistics contained in this publication are available from the time reference period to the present. Most figures printed here are also accessible on CANSIM, Statistics Canada's machine readable data base and retrieval system. Availability of data on CANSIM is announced in the Statistics Canada Daily (on the Internet). Monthly and quarterly data are released 5-6 weeks and 6-8 weeks following the end of the reference period, respectively. In the interim, index numbers may be obtained from the regional offices, directly from the Producer Prices Division, or from CANSIM. CANSIM Matrix and data bank access code numbers are provided in each table of this publication.

### **Indexes available through cost recovery**

Construction Building Materials Price Index, Residential and Non-Residential and Construction Machinery and Equipment Price Index (Imported) are available on a cost recovery basis.

For certain terminated series where continuity could not be assured, a proxy series has been created as a possible alternative, e.g. Chemical and Mineral Process Plant Price Index.

### **Revisions**

Price indexes are aggregations of representative price movements combined as weighted averages. Revisions to published weights are usually restricted to major renovations of statistical series. Such changes are described in technical notes available with the first release of a new or revised series of indexes. Exceptions to this practice are stated in the Data quality, concepts and methodology section.

Revisions to prices are, on the other hand, a regular part of index production. The symbol "r" only appears when revisions have been made outside the limits normally applying for the table in question.

See individual survey revision policies in Data quality, concepts and methodology section.

**Table 3-1**  
**Union wage rates for major construction trades — Carpenter, crane operator, cement finisher, electrician**

September 2010	Carpenter		Crane operator		Cement finisher		Electrician	
	Basic rate	Including supplements	Basic rate	Including supplements	Basic rate	Including supplements	Basic rate	Including supplements
<b>Selected metropolitan areas</b>								
dollars per hour								
St. John's, Newfoundland and Labrador	24.30	35.84	24.00	37.12	26.56	37.51	28.66	39.48
Halifax, Nova Scotia	28.04	37.73	26.84	37.65	23.67	33.32	30.39	43.87
Saint John, New Brunswick	24.13	31.73	27.45	38.20	F	F	36.01	49.35
Québec, Quebec	32.15	42.90	31.12	41.68	31.19	41.85	32.54	44.64
Saguenay, Quebec	32.15	42.90	31.12	41.68	31.19	41.85	32.54	44.64
Montréal, Quebec	32.15	42.90	31.12	41.68	31.19	41.85	32.54	44.64
Ottawa-Gatineau, Ontario part, Ontario/Quebec	31.90	44.93	32.95	46.23	31.61	40.62	36.02	52.37
Toronto, Ontario	33.98	49.08	34.55	48.13	35.30	45.28	37.24	53.59
Hamilton, Ontario	32.77	46.70	33.64	47.53	31.88	40.92	35.65	53.28
St. Catharines-Niagara, Ontario	32.77	46.70	33.64	47.53	31.88	40.92	38.94	52.41
Kitchener-Cambridge-Waterloo, Ontario	29.24	42.26	33.64	47.53	26.39	36.38	38.19	51.94
London, Ontario	30.55	43.08	32.86	46.24	29.07	36.39	37.18	51.92
Windsor, Ontario	32.14	44.30	32.98	46.34	32.60	41.67	33.65	52.43
Greater Sudbury, Ontario	31.06	43.38	33.07	46.39	30.65	39.57	37.07	52.60
Thunder Bay, Ontario	32.53	45.06	32.73	46.03	30.93	39.87	38.63	51.58
Winnipeg, Manitoba	..	..	..	..	..	..	..	..
Regina, Saskatchewan	34.24	45.78	33.88	46.63	32.61	41.58	34.46	46.63
Saskatoon, Saskatchewan	34.24	45.78	33.88	46.63	32.61	41.58	34.46	46.63
Calgary, Alberta	38.63	51.04	40.78	51.76	39.76	50.09	43.49	56.59
Edmonton, Alberta	38.63	51.04	40.78	51.76	39.76	50.09	43.49	56.59
Vancouver, British Columbia	32.96	42.72	35.40	47.73	31.82	41.35	33.21	44.02
Victoria, British Columbia	32.96	42.72	35.40	47.73	31.82	41.35	33.21	44.02

Source(s): CANSIM table number 327-0003.

See "Data quality, concepts and methodology — Construction union wage rates and indexes" section.

**Table 3-2**  
**Union wage rates for major construction trades — Labourer, plumber, reinforcing steel erector, structural steel erector**

September 2010	Labourer		Plumber		Reinforcing steel erector		Structural steel erector	
	Basic rate	Including supplements	Basic rate	Including supplements	Basic rate	Including supplements	Basic rate	Including supplements
<b>Selected metropolitan areas</b>								
dollars per hour								
St. John's, Newfoundland and Labrador	21.57	32.62	30.46	41.18	25.12	36.74	26.28	38.41
Halifax, Nova Scotia	23.67	33.32	33.25	45.80	25.98	35.28	31.18	41.16
Saint John, New Brunswick	20.00	28.04	37.01	50.29	20.75	28.79	30.00	41.40
Québec, Quebec	24.86	34.45	32.54	43.66	32.87	44.24	32.87	44.30
Saguenay, Quebec	24.86	34.45	32.54	43.66	32.87	44.24	32.87	44.30
Montréal, Quebec	24.86	34.45	32.54	43.66	32.87	44.24	32.87	44.30
Ottawa-Gatineau, Ontario part, Ontario/Quebec	27.46	37.61	32.63	49.32	31.55	43.85	34.63	47.42
Toronto, Ontario	30.16	42.96	36.71	54.03	33.10	44.76	34.72	47.42
Hamilton, Ontario	27.57	39.57	36.10	50.38	32.16	44.51	34.63	47.42
St. Catharines-Niagara, Ontario	27.57	39.57	31.51	45.44	32.16	44.51	34.63	47.42
Kitchener-Cambridge-Waterloo, Ontario	26.39	36.38	35.84	50.34	32.16	44.51	34.63	47.42
London, Ontario	30.13	37.63	34.85	48.94	31.57	43.87	34.63	47.42
Windsor, Ontario	30.33	38.51	34.76	49.53	31.57	43.87	34.63	47.42
Greater Sudbury, Ontario	24.55	36.00	33.92	49.12	31.40	43.68	34.63	47.42
Thunder Bay, Ontario	28.88	40.34	36.93	49.16	31.94	44.27	34.09	46.83
Winnipeg, Manitoba	..	..	..	..	..	..	..	..
Regina, Saskatchewan	26.54	36.75	34.78	46.62	34.03	47.18	35.71	49.26
Saskatoon, Saskatchewan	26.54	36.75	34.78	46.62	34.03	47.18	35.71	49.26
Calgary, Alberta	33.70	43.37	43.60	55.89	35.02	45.08	40.28	53.16
Edmonton, Alberta	33.70	43.37	42.29	55.89	35.02	45.08	40.28	53.16
Vancouver, British Columbia	29.85	39.47	34.49	47.29	32.70	45.38	32.70	45.38
Victoria, British Columbia	29.85	39.47	34.49	47.29	32.70	45.38	32.70	45.38

Source(s): CANSIM table number 327-0003.

See "Data quality, concepts and methodology — Construction union wage rates and indexes" section.

Table 3-3

## Union wage rates for major construction trades — Sheet metal worker, heavy equipment operator, bricklayer, painter

September 2010	Sheet metal worker		Heavy equipment operator		Bricklayer		Painter	
	Basic rate	Including supplements	Basic rate	Including supplements	Basic rate	Including supplements	Basic rate	Including supplements
<b>Selected metropolitan areas</b>								
dollars per hour								
St. John's, Newfoundland and Labrador	26.36	39.18	23.01	36.00	26.56	37.51	23.56	32.82
Halifax, Nova Scotia	31.06	42.87	26.45	37.23	29.48	39.91	24.96	34.28
Saint John, New Brunswick	27.48	34.74	25.94	36.47	24.89	35.24	23.36	32.60
Québec, Quebec	32.54	43.56	29.21	39.41	31.87	42.58	30.30	40.80
Saguenay, Quebec	32.54	43.56	29.21	39.41	31.87	42.58	30.30	40.80
Montréal, Quebec	32.54	43.56	29.21	39.41	31.87	42.58	30.30	40.80
Ottawa-Gatineau, Ontario part, Ontario/Quebec	32.25	47.67	31.76	44.92	33.96	46.21	27.73	37.95
Toronto, Ontario	32.58	47.98	33.43	46.90	36.59	47.91	32.32	43.00
Hamilton, Ontario	33.69	47.67	32.52	46.30	33.28	46.91	30.83	41.36
St. Catharines-Niagara, Ontario	33.69	47.67	32.52	46.30	32.33	46.91	30.83	41.36
Kitchener-Cambridge-Waterloo, Ontario	35.19	46.70	32.52	46.30	33.37	45.64	27.16	37.33
London, Ontario	34.64	46.48	31.57	44.83	37.84	46.21	29.63	40.04
Windsor, Ontario	33.27	47.72	31.68	44.91	32.92	46.21	28.21	38.48
Greater Sudbury, Ontario	35.41	47.17	31.77	44.96	34.08	45.79	27.53	37.73
Thunder Bay, Ontario	35.41	47.17	31.47	44.65	33.11	45.79	26.57	36.68
Winnipeg, Manitoba	..	..	..	..	..	..	..	..
Regina, Saskatchewan	33.58	45.91	32.41	45.00	35.88	45.49	29.52	36.66
Saskatoon, Saskatchewan	33.58	45.91	32.41	45.00	35.88	45.49	29.52	36.66
Calgary, Alberta	33.75	42.92	38.63	49.39	34.17	42.19	38.87	48.66
Edmonton, Alberta	33.75	42.92	38.63	49.39	34.17	42.19	38.87	48.66
Vancouver, British Columbia	32.23	42.75	34.56	46.79	35.08	45.46	32.74	41.99
Victoria, British Columbia	32.23	42.75	34.56	46.79	35.08	45.46	32.74	41.99

Source(s): CANSIM table number 327-0003.

See "Data quality, concepts and methodology — Construction union wage rates and indexes" section.

Table 3-4

## Union wage rates for major construction trades — Plasterer, roofer, truck driver, insulator

September 2010	Plasterer		Roofer		Truck driver		Insulator	
	Basic rate	Including supplements	Basic rate	Including supplements	Basic rate	Including supplements	Basic rate	Including supplements
<b>Selected metropolitan areas</b>								
dollars per hour								
St. John's, Newfoundland and Labrador	26.56	37.51	21.57	32.62	22.27	35.16	26.27	37.58
Halifax, Nova Scotia	24.96	34.28	24.25	30.34	25.55	36.25	30.95	41.87
Saint John, New Brunswick	F	F	22.77	27.60	25.08	35.49	30.27	39.94
Québec, Quebec	31.03	41.67	32.54	43.65	25.98	35.73	32.54	43.55
Saguenay, Quebec	31.03	41.67	32.54	43.65	25.98	35.73	32.54	43.55
Montréal, Quebec	31.03	41.67	32.54	43.65	25.98	35.73	32.54	43.55
Ottawa-Gatineau, Ontario part, Ontario/Quebec	30.00	42.26	28.39	40.32	27.81	40.58	33.65	46.27
Toronto, Ontario	31.65	43.38	35.17	46.89	28.90	41.92	35.35	48.14
Hamilton, Ontario	30.00	42.26	34.11	42.68	27.99	41.32	35.35	48.14
St. Catharines-Niagara, Ontario	32.33	46.91	34.11	42.68	27.99	41.32	35.35	48.14
Kitchener-Cambridge-Waterloo, Ontario	33.85	46.21	32.96	40.50	27.99	41.32	35.35	48.14
London, Ontario	29.07	36.39	31.47	41.06	27.61	40.17	35.35	48.14
Windsor, Ontario	28.50	39.62	30.38	40.63	28.48	41.39	35.35	48.14
Greater Sudbury, Ontario	30.00	42.26	28.31	40.23	26.73	39.42	35.35	48.14
Thunder Bay, Ontario	30.00	42.26	30.11	40.43	27.87	40.68	33.65	46.27
Winnipeg, Manitoba	..	..	..	..	..	..	..	..
Regina, Saskatchewan	32.61	41.58	21.88	30.89	30.29	42.65	31.93	43.39
Saskatoon, Saskatchewan	32.61	41.58	21.88	30.89	30.29	42.65	31.93	43.39
Calgary, Alberta	39.27	49.79	37.47	44.92	37.50	49.90	40.94	52.28
Edmonton, Alberta	39.27	49.79	37.47	44.92	37.50	49.90	40.94	52.28
Vancouver, British Columbia	33.28	40.95	27.92	38.04	30.54	41.34	30.34	42.94
Victoria, British Columbia	33.28	40.95	27.92	38.04	30.54	41.34	30.34	42.94

Source(s): CANSIM table number 327-0003.

See "Data quality, concepts and methodology — Construction union wage rates and indexes" section.

**Table 4-9**  
**Union wage rate indexes for major cities, average of 16 construction trades — Toronto, Ontario**

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual average
1997=100													
<b>Basic rate (v52012906) weight = 23.31</b>													
2007	98.8	98.8	98.8	98.8	100.5	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.0
2008	100.9	100.9	100.9	100.9	104.7	104.7	104.7	104.7	104.7	104.7	104.7	104.7	103.4
2009	104.4	104.4	104.4	104.4	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2	106.3
2010	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2	..	..	..	..
<b>Including supplements (v52012934) weight = 24.03</b>													
2007	98.8	98.8	98.8	98.8	100.4	100.6	100.6	100.6	100.6	100.7	100.7	100.7	100.0
2008	100.7	100.7	100.7	100.7	105.6	105.6	105.6	105.6	105.6	105.7	105.7	105.7	104.0
2009	105.7	105.7	105.7	105.7	108.9	108.9	108.9	108.9	108.9	108.9	108.9	108.9	107.8
2010	108.9	108.9	108.9	108.9	108.9	108.9	108.9	108.9	108.9	..	..	..	..

**Source(s):** CANSIM table number 327-0045.

See "Data quality, concepts and methodology — Construction union wage rates and indexes" section.

**Table 4-10**  
**Union wage rate indexes for major cities, average of 16 construction trades — Hamilton, Ontario**

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual average
1997=100													
<b>Basic rate (v52012907) weight = 4.44</b>													
2007	98.8	98.8	98.8	98.8	100.1	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.0
2008	100.6	100.6	100.6	100.6	104.7	104.7	104.7	104.7	104.7	104.7	104.7	104.7	103.3
2009	104.7	104.7	104.7	104.7	107.9	107.9	107.9	107.9	107.9	107.9	107.9	107.9	106.8
2010	107.9	107.9	107.9	107.9	107.9	107.9	107.9	107.9	107.9	..	..	..	..
<b>Including supplements (v52012935) weight = 4.62</b>													
2007	98.8	98.8	98.8	98.8	100.1	100.7	100.7	100.7	100.7	100.7	100.7	100.7	100.0
2008	100.7	100.7	100.7	100.7	105.5	105.5	105.5	105.5	105.5	105.6	105.6	105.6	103.9
2009	105.6	105.6	105.6	105.6	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	107.7
2010	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	..	..	..	..

**Source(s):** CANSIM table number 327-0045.

See "Data quality, concepts and methodology — Construction union wage rates and indexes" section.

**Table 4-11**  
**Union wage rate indexes for major cities, average of 16 construction trades — St. Catharines-Niagara, Ontario**

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual average
1997=100													
<b>Basic rate (v52012908) weight = 2.31</b>													
2007	98.8	98.8	98.8	98.8	100.2	100.7	100.7	100.7	100.7	100.7	100.7	100.7	100.0
2008	100.7	100.7	100.7	100.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7	104.0
2009	105.7	105.7	105.7	105.7	108.6	108.6	108.6	108.6	108.6	108.6	108.6	108.6	107.6
2010	108.6	108.6	108.6	108.6	108.6	108.6	108.6	108.6	108.6	..	..	..	..
<b>Including supplements (v52012936) weight = 2.40</b>													
2007	98.7	98.7	98.7	98.7	100.2	100.7	100.7	100.7	100.7	100.8	100.8	100.8	100.0
2008	100.8	100.8	100.8	100.8	105.1	105.1	105.1	105.1	105.1	105.2	105.2	105.2	103.7
2009	105.2	105.2	105.2	105.2	108.2	108.2	108.2	108.2	108.2	108.2	108.2	108.2	107.2
2010	108.2	108.2	108.2	108.2	108.2	108.2	108.2	108.2	108.2	..	..	..	..

**Source(s):** CANSIM table number 327-0045.

See "Data quality, concepts and methodology — Construction union wage rates and indexes" section.

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**wsib** 2011

# Premium Rates MANUAL

## SECTION 4

*2010 Premium Rates for Each Rate Group, by Class*

Enter

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**cspaat**  
ONTARIO

Workplace Safety  
& Insurance Board  
Commission de la sécurité  
professionnelle et de l'assurance  
contre les accidents du travail

<b>Rate</b>		<b>2011</b>
<b>Group</b>	<b>Description</b>	<b>Premium</b>
		<b>Rate</b>
		<b>(\$)</b>
030	LOGGING	12.47
033	MILL PRODUCTS AND FORESTRY SERVICES	8.42
036	VENEERS, PLYWOOD AND WOOD PRESERVATION	5.14
039	PULP, NEWSPRINT AND SPECIALTY PAPERS	2.80
041	CORRUGATED BOXES	3.10
	<b>CLASS A : FOREST PRODUCTS</b>	<b>4.71</b>

<u>Rate Group</u>	<u>Description</u>	<b>2011 Premium Rate (\$)</b>
110	GOLD MINES	7.79
113	NICKEL MINES	4.98
119	OTHER MINES	6.40
134	AGGREGATES	6.24
	<b>CLASS B : MINING AND RELATED INDUSTRIES</b>	<b>6.29</b>



<b>Rate Group</b>	<b><u>Description</u></b>	<b>2011 Premium Rate (\$)</b>
159	LIVESTOCK FARMS	6.78
167	FIELD CROP, FRUIT AND VEGETABLE FARMS	2.72
174	TOBACCO AND MUSHROOM FARMS	4.93
181	FISHING AND MISCELLANEOUS FARMING	3.51
184	POULTRY FARMS AND AGRICULTURAL SERVICES	3.13
190	LANDSCAPING AND RELATED SERVICES	4.72
	<b>CLASS C : OTHER PRIMARY INDUSTRIES</b>	<b>4.01</b>

<b>Rate Group</b>	<b>Description</b>	<b>2011 Premium Rate (\$)</b>
207	MEAT AND FISH PRODUCTS	4.46
210	POULTRY PRODUCTS	3.35
214	FRUIT AND VEGETABLE PRODUCTS	2.57
216	DAIRY PRODUCTS	2.17
220	OTHER BAKERY PRODUCTS	3.83
222	CONFECTIONERY	1.73
223	BISCUITS, SNACK FOODS AND OTHER FOOD PRODUCTS	2.68
226	CRUSHED AND GROUND FOODS	1.62
230	ALCOHOLIC BEVERAGES	1.49
231	SOFT DRINKS	3.43
238	OTHER RUBBER PRODUCTS	3.95
258	FOAMED AND EXPANDED PLASTIC PRODUCTS	2.79
261	PLASTIC FILM AND SHEETING	2.35
263	OTHER PLASTIC PRODUCTS	3.09
289	CLOTH, CARPETS AND TEXTILE PRODUCTS	3.55
301	CLOTHING, FIBRE AND YARN	2.32
308	MILLWORK AND OTHER WOOD INDUSTRIES	5.33
311	WOODEN CABINETS	3.98
312	WOODEN BOXES AND PALLETS	6.83
322	UPHOLSTERED FURNITURE	3.20
323	METAL FURNITURE	2.24
325	WOODEN AND OTHER NON-METAL FURNITURE	4.12
328	FURNITURE PARTS AND FIXTURES	3.99
333	PRINTING, PLATEMAKING AND BINDING	1.68
335	PUBLISHING	0.54
338	FOLDING CARTONS	2.54
341	PAPER PRODUCTS	3.05
352	STEEL AND OTHER SMELTING AND REFINING INDUSTRIES	2.51
358	FOUNDRIES	4.11
361	NON-FERROUS METAL INDUSTRIES	3.44
374	DOORS AND WINDOWS	3.41
375	STRUCTURAL AND ARCHITECTURAL PRODUCTS	4.51
377	COATING OF METAL PRODUCTS	4.01
379	HARDWARE, TOOLS AND CUTLERY	2.63
382	METAL DIES, MOULDS AND PATTERNS	2.13
383	HEATING, REFRIGERATION AND AIR CONDITIONING EQUIPMENT	2.67
385	MACHINE SHOPS	2.50

<u>Rate Group</u>	<u>Description</u>	<b>2011 Premium Rate (\$)</b>
387	OTHER METAL FABRICATING INDUSTRIES	3.52
389	METAL CLOSURES AND CONTAINERS	2.48
390	OTHER STAMPED AND PRESSED METAL PRODUCTS	3.44
393	WIRE PRODUCTS	3.23
402	MAJOR APPLIANCES AND TRANSMISSION EQUIPMENT	2.23
403	OTHER MACHINERY AND EQUIPMENT	1.67
406	ELEVATORS AND ESCALATORS	2.59
408	BOILERS, PUMPS AND FANS	2.35
411	AGRICULTURAL, CONSTRUCTION AND MINING MACHINERY	2.76
417	AIRCRAFT MANUFACTURING	1.50
419	MOTOR VEHICLE ASSEMBLY	3.44
420	MOTOR VEHICLE ENGINE MANUFACTURING	1.81
421	OTHER MOTOR VEHICLE PARTS AND EQUIPMENT	3.44
424	MOTOR VEHICLE STAMPINGS	3.44
425	MOTOR VEHICLE WHEELS AND BRAKES	3.44
428	MOTOR VEHICLE FABRIC ACCESSORIES	4.38
432	TRUCKS, BUSES AND TRAILERS	4.21
442	RAILROAD ROLLING STOCK	2.63
460	LIGHTING AND SMALL ELECTRICAL APPLIANCES	2.54
466	COMMUNICATION AND ENERGY WIRE PRODUCTS	2.34
468	ELECTRONIC EQUIPMENT & OTHER COMMUNICATION DEVICES	0.39
477	INDUSTRIAL ELECTRICAL EQUIPMENT	1.49
485	BRICKS, CERAMICS AND ABRASIVES	4.34
496	CONCRETE PRODUCTS	5.19
497	READY-MIX CONCRETE	3.76
501	NON-METALLIC MINERAL PRODUCTS	2.87
502	GLASS PRODUCTS	2.92
507	PETROLEUM AND COAL PRODUCTS	1.13
512	RESINS, PAINT, INK AND ADHESIVES	1.68
514	PHARMACEUTICALS AND MEDICINES	0.92
517	SOAP AND TOILETRIES	1.61
524	CHEMICAL INDUSTRIES	1.88
529	JEWELRY AND INSTRUMENTS	0.98
533	SIGNS AND DISPLAYS	3.06
538	SPORTING GOODS AND TOYS	4.10
542	OTHER MANUFACTURED PRODUCTS	2.04
<b>CLASS D : MANUFACTURING</b>		<b>2.41</b>

<b>Rate Group</b>	<b><u>Description</u></b>	<b>2011 Premium Rate (\$)</b>
551	AIR TRANSPORT INDUSTRIES	2.00
553	AIR TRANSPORT SERVICES	1.85
560	WAREHOUSING	3.28
570	GENERAL TRUCKING	6.43
577	COURIER SERVICES	2.89
580	MISCELLANEOUS TRANSPORT INDUSTRIES	4.89
584	SCHOOL BUSES	2.91
590	AMBULANCE SERVICES	6.18
	<b>CLASS E : TRANSPORTATION AND STORAGE</b>	<b>4.83</b>

<b>Rate Group</b>	<b>Description</b>	<b>2011 Premium Rate (\$)</b>
604	FOOD, SALES	2.43
606	GROCERY AND CONVENIENCE STORES	2.11
607	SPECIALTY FOOD STORES	3.57
608	BEER STORES	3.99
612	AGRICULTURAL PRODUCTS, SALES	2.37
630	VEHICLE SERVICES AND REPAIRS	3.39
633	PETROLEUM PRODUCTS, SALES	2.49
636	OTHER SALES	1.40
638	PHARMACIES	0.68
641	CLOTHING STORES	1.53
657	AUTOMOBILE AND TRUCK DEALERS	0.78
668	COMPUTER, ELECTRONIC AND ELECTRICAL EQUIPMENT, SALES	0.48
670	MACHINERY AND OTHER VEHICLES, SALES	1.76
681	LUMBER AND BUILDERS SUPPLY	2.88
685	METAL PRODUCTS, WHOLESALE	3.11
689	WASTE MATERIALS RECYCLING	5.90
	<b>CLASS F : RETAIL AND WHOLESALE TRADES</b>	<b>1.74</b>

<b>Rate Group</b>	<b>Description</b>	<b>2011 Premium Rate (\$)</b>
704	ELECTRICAL AND INCIDENTAL CONSTRUCTION SERVICES	3.53
707	MECHANICAL AND SHEET METAL WORK	3.98
711	ROADBUILDING AND EXCAVATING	5.06
719	INSIDE FINISHING	7.19
723	INDUSTRIAL, COMMERCIAL & INSTITUTIONAL CONSTRUCTION	4.35
728	ROOFING	14.16
732	HEAVY CIVIL CONSTRUCTION	6.73
737	MILLWRIGHTING AND WELDING	6.60
741	MASONRY	12.15
748	FORM WORK AND DEMOLITION	17.51
751	SIDING AND OUTSIDE FINISHING	9.80
764	HOMEBUILDING	8.71
	<b>CLASS G : CONSTRUCTION</b>	<b>6.36</b>

<b>Rate Group</b>	<b>Description</b>	<b>2011 Premium Rate (\$)</b>
810	SCHOOL BOARDS	0.78
817	EDUCATIONAL FACILITIES	0.36
830	POWER AND TELECOMMUNICATION LINES	4.25
833	ELECTRIC POWER GENERATION	0.76
835	OIL, POWER AND WATER DISTRIBUTION	1.03
838	NATURAL GAS DISTRIBUTION	0.67
845	LOCAL GOVERNMENT SERVICES	2.15
851	HOMES FOR NURSING CARE	3.15
852	HOMES FOR RESIDENTIAL CARE	3.16
853	HOSPITALS	1.06
857	NURSING SERVICES	3.17
858	GROUP HOMES	3.01
861	TREATMENT CLINICS AND SPECIALIZED SERVICES	1.06
875	PROFESSIONAL OFFICES AND AGENCIES	0.71
	<b>CLASS H : GOVERNMENT AND RELATED SERVICES</b>	<b>1.30</b>

<b>Rate</b>		<b>2011</b>
<b>Group</b>	<b>Description</b>	<b>Premium</b>
		<b>Rate</b>
		<b>(\$)</b>
905	APARTMENT AND CONDOMINIUM SERVICES	2.91
908	OTHER REAL ESTATE SERVICES	1.25
911	SECURITY AND INVESTIGATION SERVICES	1.67
919	RESTAURANTS AND CATERING	1.65
921	HOTELS, MOTELS AND CAMPING	2.97
923	JANITORIAL SERVICES	3.57
929	SUPPLY OF NON-CLERICAL LABOUR	4.83
933	EQUIPMENT RENTAL AND REPAIR SERVICES	2.95
937	RECREATIONAL SERVICES AND FACILITIES	2.10
944	PERSONAL SERVICES	3.12
956	LEGAL AND FINANCIAL SERVICES	0.21
958	TECHNICAL AND BUSINESS SERVICES	0.38
962	ADVERTISING AND ENTERTAINMENT	1.05
975	LINEN AND LAUNDRY SERVICES	3.94
981	MEMBERSHIP ORGANIZATIONS	0.77
983	COMMUNICATIONS INDUSTRIES	0.37
	<b>CLASS I : OTHER SERVICES</b>	<b>1.25</b>
	<b>SCHEDULE 1</b>	<b>2.35</b>



# APPENDIX I

## Cash Flow Example

**OWNER**  
**PROJECT TITLE**  
**PROJECT NUMBER**  
**CASH FLOW DATA**

UPDATED 10/4/2006  
 PRINTED 11/29/2006

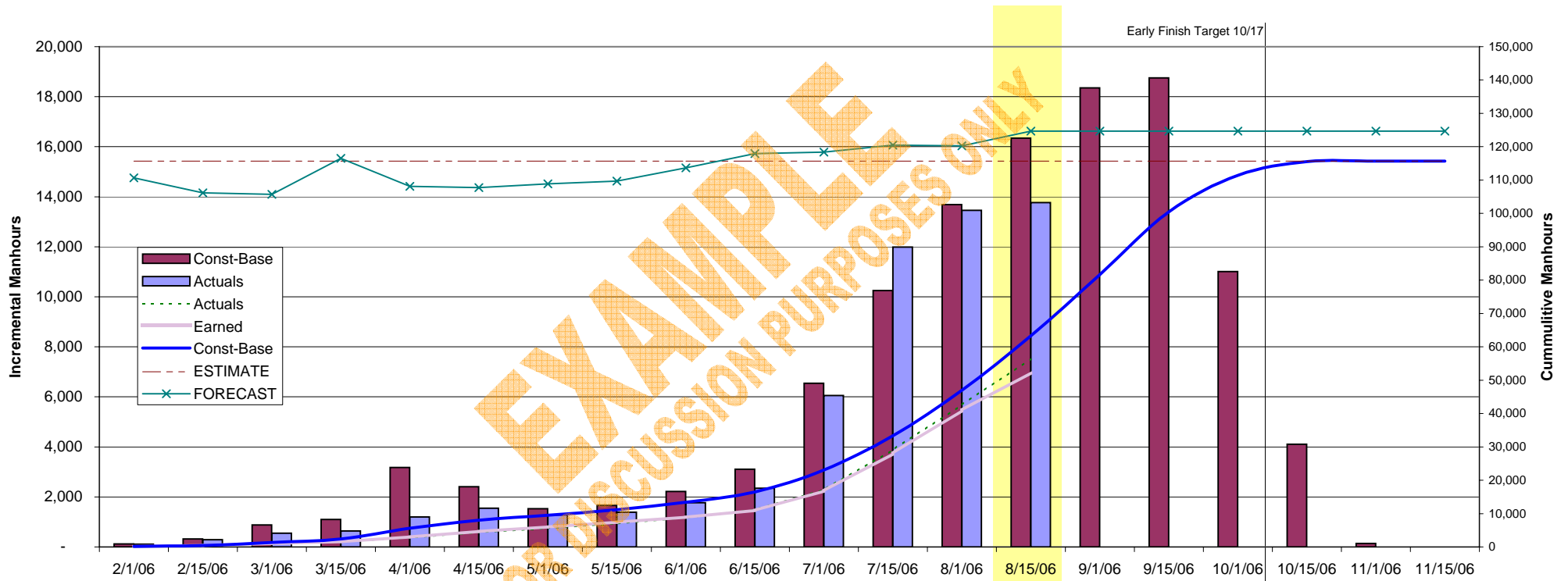
A WBS	B DESCRIPTION	C BASE BUDGET	D APPROVED CHANGES	E CURRENT BUDGET	F ASSIGNED		G ACTUAL EXPENDED	H TOTAL FORECAST	I VARIANCE											
					PERIOD	TOTAL				2005	Jan-06	Feb-06	Mar-06	April to September	Oct-06	Nov-06	Dec-06			
							38,411													
wbs_x30.4.1	Impl - Site Resources	1,228,000		1,228,000	45,870	165,127	347,592	1,228,000.00	-			7,182	40,320	60,011			152,200	150,000	7,608	
wbs_x30.4.2	Impl - Central Resources	930,000		930,000	71,187	143,277	361,223	930,000.00	-			22,091	66,903	72,985			61,000	190,000	89,177	
wbs_x30.4.3	Impl - PM	944,000		944,000	834,722	885,650	744,680	944,000.00	-					132,833			-	1,920	-	
wbs_x30.4.4	Impl - Engineering	3,123,000		3,123,000	2,420,564	2,470,564	2,301,395	3,123,000.00	-					282,488			20,000	11,205	-	
wbs_x30.5	Impl - Construction Management	2,158,000		2,158,000	1,753,285	1,756,359	614,090	2,158,000.00	-				3,359	87,317			342,200	301,010	-	
wbs_x30.6.1	Proc - Equipment	1,703,000		1,703,000	109,202	666,782	681,022	1,703,000.00	-				12,454	24,908	89,534		100,000	20,000	2,478	
wbs_x30.6.2	Proc - Instruments	427,000		427,000	19,427	19,427	3,641	427,000.00	-								100,000	60,000	7,959	
wbs_x30.6.3	Proc - Control Valves	-		-	-	-	-	-	-								-	-	-	
wbs_x30.6.5	Proc - Electrical Equipment	112,000		112,000	26,022	26,022	26,022	133,322.00	(21,322)								-	-	-	
wbs_x30.6.8	Proc - Major Steel	177,000		177,000	-	-	6,127	176,527.44	473								-	-	-	
wbs_x30.6.9	Proc - Pipe Material	690,000		690,000	-	-	12,890	690,190.08	(190)								-	-	-	
wbs_x30.6.11	Proc - Other	-		-	-	-	-	-	-								-	-	-	
wbs_x30.7.1	Civil/Structural - Indirect	157,000		157,000	-	-	-	238,100.00	(71,100)								20,000	-	-	
wbs_x30.7.2	Civil/Struct - Concrete - Labor	212,000		212,000	-	-	-	181,286.00	30,714								-	73,186	-	
wbs_x30.7.3	Civil/Struct - Concrete - Material	38,000		38,000	-	-	-	38,248.00	(248)								-	6,948	-	
wbs_x30.7.4	Civil/Struct - Structural Steel - Labor	198,000		198,000	-	-	-	157,457.00	40,543								-	54,757	-	
wbs_x30.7.5	Civil/Struct - Structural Steel - Material	-		-	-	-	-	-	-								-	-	-	
wbs_x30.7.6	Civil/Struct - Building - Labor	99,000		99,000	-	-	-	99,531.00	(531)								20,000	16,031	-	
wbs_x30.7.7	Civil/Struct - Building - Material	58,000		58,000	-	-	-	48,863.00	9,137								3,000	15,863	-	
wbs_x30.7.8	Civil/Struct - Site Work - Labor	70,000		70,000	-	-	-	70,411.00	(411)								-	8,411	-	
wbs_x30.7.9	Civil/Struct - Site Work - Material	8,000		8,000	-	-	-	12,100.00	(4,100)								-	-	-	
wbs_x30.8.1	Mechanical - Indirect	806,000		806,000	-	-	-	870,429.00	(64,429)								200,000	30,929	-	
wbs_x30.8.2	Mech - Piping/Pipe Supports - Labor	3,073,000		3,073,000	-	-	-	3,073,000.00	-								900,000	880,900	-	
wbs_x30.8.3	Mech - Piping/Pipe Supports - Material	133,000		133,000	-	-	-	133,000.00	-								20,000	3,000	-	
wbs_x30.8.4	Mech - Pneumatic Tubing - Labor	407,000		407,000	-	-	-	407,000.00	-								100,000	132,000	-	
wbs_x30.8.5	Mech - Pneumatic Tubing - Material	270,000		270,000	-	-	-	270,000.00	-								60,000	100,000	-	
wbs_x30.8.6	Mech - Pipe/Equip Insulation - Labor	89,000		89,000	-	-	-	89,000.00	-								24,700	4,300	-	
wbs_x30.8.7	Mech - Pipe/Equip Insulation - Material	23,000		23,000	-	-	-	23,000.00	-								5,000	3,000	-	
wbs_x30.8.8	Mech - Equipment Installation - Labor	316,000		316,000	-	-	-	316,000.00	-								34,000	116,400	-	
wbs_x30.9.1	Electrical & Instrumentation - Indirect	398,000		398,000	-	-	-	398,000.00	-								40,000	62,900	-	
wbs_x30.9.2	E&I - Electrical - Labor	1,246,000		1,246,000	-	-	-	1,246,000.00	-								429,600	330,400	-	
wbs_x30.9.3	E&I - Electrical - Material	185,000		185,000	-	-	-	185,000.00	-								28,700	70,500	-	
wbs_x30.9.4	E&I - Instrumentation - Labor	185,000		185,000	-	-	-	185,000.00	-								30,000	45,500	-	
wbs_x30.9.5	E&I - Instrumentation - Material	1,000		1,000	-	-	-	1,700.00	(700)								-	-	-	
wbs_x30.9.6	E&I - Equipment Installation - Labor	-		-	-	-	-	-	-								-	-	-	
wbs_x30.10.1	Painting/Line ID - Indirect	-		-	-	-	-	-	-								-	-	-	
wbs_x30.10.2	Painting/Line ID - Labor	177,000		177,000	-	-	-	177,163.00	(163)								66,000	34,163	-	
wbs_x30.10.3	Painting/Line ID - Material	16,000		16,000	-	-	-	15,766.00	234								4,800	5,366	-	
wbs_x30.11.1	Building Ventilation - Indirect	220,000		220,000	-	-	-	220,141.00	(141)								50,000	70,141	-	
wbs_x30.11.2	Building Ventilation - Labor	-		-	-	-	-	-	-								-	-	-	
wbs_x30.11.3	Building Ventilation - Material	-		-	-	-	-	-	-								-	-	-	
wbs_x30.12.1	Fire Protection - Indirect	-		-	-	-	-	-	-								-	-	-	
wbs_x30.12.2	Fire Protection - Labor	100,000		100,000	-	-	-	99,662.00	338								26,100	43,162	-	
wbs_x30.12.3	Fire Protection - Material	27,000		27,000	-	-	-	26,931.00	69								8,300	8,831	-	
wbs_x30.14	Administrative Supplies	34,000		34,000	15,975	15,975	8,988	35,753.89	(1,754)			1,117	1,744	2,269			4,300	15,265	-	
wbs_x30.15	Spare Parts	60,000		60,000	-	-	-	61,980.00	(1,980)								-	61,980	-	
wbs_x30.16	Insurance	100,000		100,000	-	-	61,760	99,960.00	40								61,760	-	-	
wbs_x30.17	Commissioning and Start-up	-		-	-	-	-	-	-								-	-	-	
wbs_x30.18	Tax	49,000		49,000	-	-	-	48,700.00	300								-	48,700	-	
wbs_x30.19	Scaffolding	654,000		654,000	-	-	-	654,001.00	(1)								200,000	148,001	-	
wbs_x30.99	Contingency	1,500,000		1,500,000	-	-	-	2,392,959.01	(892,959)								-	-	-	2,392,959
	<b>30MM</b>	<b>22,401,000</b>		<b>22,401,000</b>	<b>5,358,014</b>	<b>6,210,943</b>	<b>5,169,431</b>	<b>23,382,181.42</b>	<b>(981,181)</b>			<b>42,844</b>	<b>547,301</b>	<b>871,985</b>			<b>3,049,900</b>	<b>3,124,769</b>	<b>2,500,181</b>	
	<b>TOTAL PROJECT</b>																			
	Cummulative 30MM	Budget of \$26,104											42,844	590,145	1,462,130			17,757,231	20,882,000	23,382,181
												1st qtr			1,462,130			4th Qtr		8,674,851
	Budget of \$34.10- Monthly												42,844	547,301	871,985			3,049,900	3,124,769	2,500,181
	Cummulative											1st qtr	42,844	590,145	1,462,130			17,757,231	20,882,000	23,382,181
	Qtr														1,462,130			4th Qtr		8,674,851
	Previous Forecast												632,767	316,286	1,038,140			-	-	-
												1st qtr	632,767	949,053	1,052,932	2,091,072		9,283,674	9,283,674	9,283,674
															1,458,305			4th Qtr		-

Hours Through July 1, 2006 7/1/05  
 Construction Hours Estimate 115,664  
 Current Hours at Completion 124,690  
 DELTA 9,026  
 % Delta 7.80%

# PROJECT TITLE OR DESCRIPTION

## Project Performance Curve - Total Project

Percent Complete = 45.2%  
 Percent Expended = 48.7%  
 Cumulative CPI = 0.93



	Period Begin	2/1/06	2/15/06	3/1/06	3/15/06	4/1/06	4/15/06	5/1/06	5/15/06	6/1/06	6/15/06	7/1/06	7/15/06	8/1/06	8/15/06	9/1/06	9/15/06	10/1/06	10/15/06	11/1/06	11/15/06	
<b>Percent</b>																						
	Const-Base	0%	0%	1%	2%	5%	7%	8%	10%	12%	14%	20%	29%	41%	55%	71%	87%	96%	100%	100%	100%	
	Actuals	0%	0%	1%	1%	2%	4%	5%	6%	8%	10%	15%	25%	37%	49%							
	Earned	0%	0%	1%	1%	3%	4%	5%	6%	8%	9%	15%	24%	35%	45%							
<b>Cummulative</b>																						
	Const-Base	119	438	1,317	2,413	5,593	8,000	9,531	11,190	13,411	16,520	23,062	33,311	46,999	63,344	81,693	100,441	111,448	115,554	115,695	115,695	
	Actuals	110	400	947	1,590	2,793	4,342	5,618	7,010	8,778	11,130	17,184	29,173	42,627	56,392							
	Earned	115	436	1,036	1,579	2,988	4,664	5,972	7,393	8,936	10,918	16,792	28,023	41,003	52,324							
<b>Incremental</b>																						
	Const-Base	119	319	879	1,096	3,180	2,407	1,531	1,659	2,221	3,109	6,542	10,249	13,688	16,345	18,349	18,748	11,007	4,106	141	-	115,695
	Actuals	110	290	547	643	1,203	1,549	1,276	1,392	1,768	2,352	6,054	11,989	13,454	13,765	-	-	-	-	-	-	56,392
	Earned	115	321	600	543	1,409	1,676	1,308	1,421	1,543	1,982	5,874	11,231	12,980	11,321	-	-	-	-	-	-	52,324
	ESTIMATE	115,664	115,664	115,664	115,664	115,664	115,664	115,664	115,664	115,664	115,664	115,664	115,664	115,664	115,664	115,664	115,664	115,664	115,664	115,664	115,664	115,664
	Cumul.CPI	1.0455	1.090	1.094	0.993	1.070	1.074	1.063	1.055	1.018	0.981	0.977	0.961	0.962	0.928							
	FORECAST	110,665	106,142	105,756	116,501	108,145	107,707	108,837	109,701	113,649	117,942	118,396	120,443	120,277	124,690	124,690	124,690	124,690	124,690	124,690	124,690	124,690
<b>TOTALS</b>																						