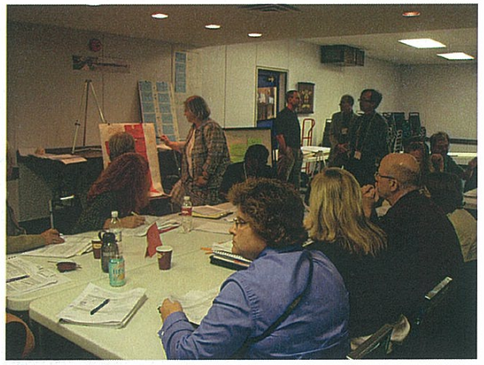
Workshop 2 Summary Report

October 2007



The Ministry of Transportation (MTO) is completing the Preliminary Design and Class Environmental Assessment Study for the Argyle Street Bridge in Caledonia. Alternatives to replace or rehabilitate the bridge will be evaluated using a number of factors and sub-factors.

MTO hosted an Evaluation Factor Weighting Workshop to assign weights to the project factor groups, factors and sub-factors as input to the evaluation of alternatives. Using a collaborative, interdisciplinary process, all of the workshop participants worked together to develop the weighting assigned to the evaluation factors and sub-factors.

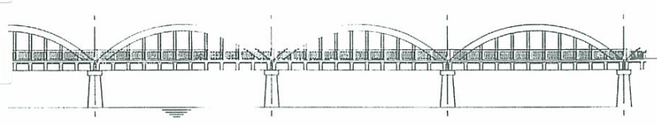
The workshop was held in Caledonia at the Legion Hall on Wednesday, September 26, 2007 from 9:00 am to 4:30 p.m. It was facilitated by Donna Hinde from The Planning Partnership, and assisted by Fred Leech, MTO. Study team members attending the workshop included:

- Structural Engineers from MTO and Morrison Hershfield;
- Highway Design Engineers from MTO and Morrison Hershfield;
- Environmental Planners from MTO and Morrison Hershfield
- Heritage Advisor and Regional Archaeologist from the Ministry; and,
- Heritage Consultant from Archaeological Services Inc.

Representatives from the following agencies were invited to the workshop:

- Ministries of Culture, Natural Resources, Environment;
- Department of Fisheries and Oceans;
- Grand River Conservation Authority;
- Haldimand County;
- Mississaugas of the New Credit;
- Six Nations Confederacy Council;
- Six Nations of the Grand River Territory;
- Caledonia Chamber of Commerce;
- Caledonia Business Improvement Association; and,
- Citizen representatives.

Elected officials attended as observers. A complete list of invitees and the invitation letter are included in Appendix 1. Approximately 30 people attended the workshop.



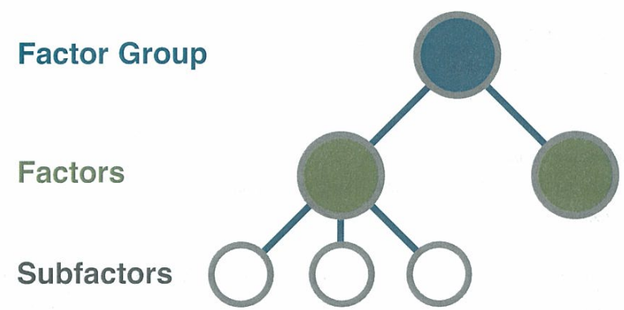
A Background Information Package was distributed to all participants in advance of the workshop. The information described the existing conditions, project progress, the Preliminary Design and Class Environmental Assessment Study, project challenges, project assumptions, evaluation factors and sub-factors and design alternatives.

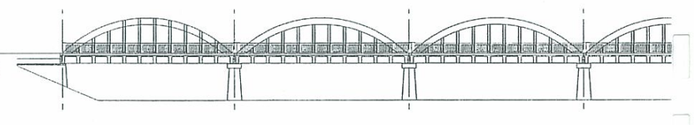
The workshop was organized into two main parts: presentations and table group activities. The Agenda is included in Appendix 2. The first presentation was a review of the project background and the purpose of the workshop. This was followed by presentations by a member of the MTO/Consulting team on each of the factor groups:

- transportation and engineering factor group;
- natural environmental factor group;
- socio-economic environmental factor group; and,
- cultural environmental factor group.

The study plan, environmental assessment process and bridge alternatives were also summarized in a presentation.

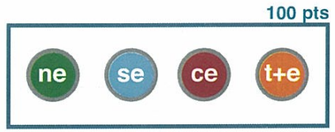
The intent of the table group activities was to have the participants involved in assigning weights to the factor groups, and then to the factors and sub-factors.





Participants were randomly assigned to one of four table groups to begin by assigning weights to the four factor groups:

- natural environment;
- socio-economic environment;
- cultural environment; and,
- transportation and engineering.



Each table group was facilitated by a member of the consulting/MTO study team. Working with 100 points, each group was asked to distribute the points across the four factor groups. It was agreed at the outset of the workshop that no factor groups could be assigned 0 points. Participants at each table group began by rank ordering the factor groups. Individually, each participant assigned weights, followed by a round table discussion to review the low, high and average score. Working to a total of 100, each table group then reached consensus on the distribution of 100 points across all factor groups.

A plenary session was held to have the four table groups report out on the conclusions of the weighting exercise of the factor groups. The following is a summary of the table group's weights:

Factor Group	Table Group #1	Table Group #2	Table Group #3	Table Group #4	Average
Natural Environment	15	10	13	15	**13.25**
Socio-economic Environment	30	30	34	31	**31.25**
Cultural Environment	30	30	29	24	**28.25**
Transportation and engineering	25	30	24	30	**27.25**
	100	**100**	**100**	**100**	**100**

There was consensus among workshop participants to work with the resultant average weight for each factor group for the next table group activity.

Workshop participants were then assigned to work with others who represented an agency or group with interests aligned to one of the four factor groups. Once participants were reassigned to a table group, they were asked to allocate the weight given to their factor group to its factors and sub-factors. The following is a summary of the factors and sub-factors:

GROUP 1

1. Natural Environmental Factor Group

- **1.1 Fisheries and Aquatic Ecosystems**
  - 1.1.1 Fish Habitat
  - 1.1.2 Fish Community
- **1.2 Terrestrial Ecosystems**
  - 1.2.1 Wildlife Habitat and Wildlife
  - 1.2.2 Vegetation

GROUP 2

2. Socio-Economic Environmental Factor Group

- **2.1 Land Use Planning Policies, Goals, Objectives**
  - 2.1.1 First Nations Land Claims
  - 2.1.2 Municipal (regional and local) land use planning goals and objectives
- **2.2 Land Use/Community- Long Term**
  - 2.2.1 Urban Residential
  - 2.2.2 Commercial / Industrial / Local Businesses
- **2.3 Community Distribution- Short Term**
  - 2.3.1 Duration of Construction Disruption to the traffic and downtown area (initial and subsequent rehabilitations)
  - 2.3.2 Degree of Traffic Disruption between the north and south sides of Caledonia (during initial construction and subsequent rehabilitation)
  - 2.3.3 Impact to Police and Emergency Services(fire and ambulance) (allows EMS unimpeded crossing of bridge during construction)
  - 2.3.4 Accommodation for pedestrians and cyclists during construction (during initial and subsequent construction/rehabilitation)
  - 2.3.5 Navigation (during construction)
- **2.4 Land Use/Resources**
  - 2.4.1 First Nations Treaty Rights or Use of Land and Resources for Traditional Purposes
  - 2.4.2 Parks and Recreational Areas

GROUP 3

3. Cultural Environmental Factor Group

3.1 Cultural Heritage – Heritage Bridge

3.1.1 Heritage Bridge Listed on the Ontario Heritage Bridge List

3.1.2 Bridge Aesthetics / Community Landmark and Gateway

3.2 Cultural Heritage – Built Heritage and Cultural Landscapes

3.2.1 Building or "Standing" Sites of Architectural or Heritage Significance

3.2.2 Cultural Heritage Landscapes

3.2.3 Cultural Heritage Streetscapes

3.3 Cultural Heritage - Archaeology

3.3.1 Pre-Historic and Historic First Nations Archaeological Sites and Burial Sites

3.3.2 Historic Euro-Canadian Archaeological Sites

GROUP 4

4. Transportation and Engineering Group

4.1 Traffic Operations – Long Term

4.1.1 Traffic capacity and operations (through traffic across the bridge, and turning movements from Argyle Street to intersections at Forfar St. and Caithness St.)

4.1.2 Accommodation for pedestrians and cyclists

4.2 Geometrics

4.2.1 Permanent Alignment (Smooth continuous lines, no abrupt turns)

4.2.2 Operational Safety (lane widths, etc.)

4.3 Structural Engineering

4.3.1 Structural Durability and Future Maintenance Requirements

4.3.2 Structural Foundation Performance

4.3.3 Hydraulic Capacity (ability to handle 100 year storm flow)

4.3.4 Constructability (Ease to build, construction access etc. (initial and subsequent construction/rehabilitations)

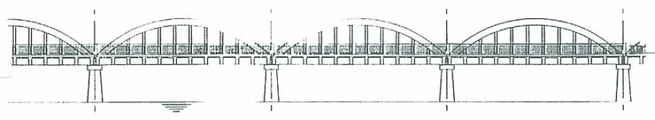
4.4 Construction Cost

4.4.1 Construction Cost for Bridge (excludes property and engineering costs) (cost effectiveness)

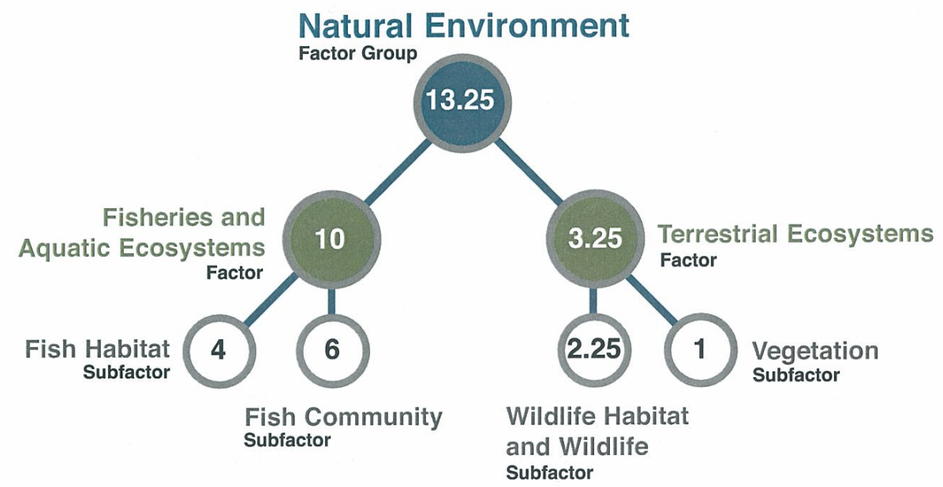
4.4.2 Construction Cost for Detour or Construction Staging (initial and subsequent construction)

4.4.3 Property Cost

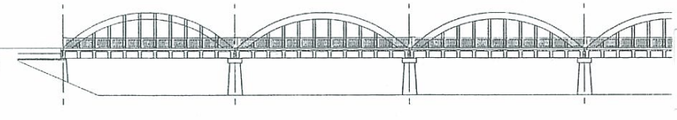
4.4.4 Life Cycle Cost



Once in the factor group specific tables, participants went through a similar process of first rank ordering, and then allocating the assigned points to the factors. Once agreed, participants then distributed the factor's points to each of the sub-factors. For example, of the 13.25 points assigned to the Natural Environment Factor Group, 10 points were assigned to the fisheries and aquatic ecosystems factor and 3.25 points were assigned to the terrestrial ecosystems factor. Of the 10 points assigned to the fisheries and aquatic ecosystems factor, 4 were assigned to the fish habitat subfactor and 6 were assigned to the fish community subfactor. Of the 3.25 points assigned to terrestrial ecosystems factor, 2.25 were assigned to the wildlife habitat and wildlife sub factor and 1 to the vegetation sub factor.

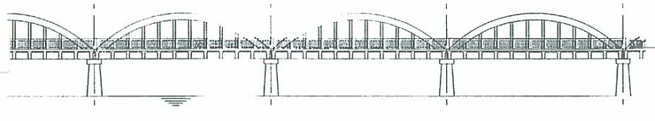


The workshop concluded with a plenary session where table groups shared their conclusions with all workshop participants. The table on the facing page is the final weighting. The MTO/consulting team intends on using the weights to complete their evaluation of alternatives.



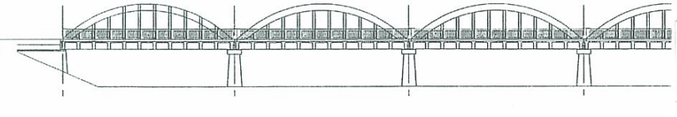
Argyle Street Bridge Preliminary Design and Class EA Study
Proposed Factors and Sub-Factors
To Be Considered in the Generation and Evaluation Of Alternatives

FACTOR GROUPS			FACTOR			SUB - FACTOR		
	TITLE	WEIGHT		TITLE	WEIGHT		TITLE	WEIGHT
1.0	**NATURAL ENVIRONMENTAL FACTOR GROUP**	**13.25**	1.1	Fisheries and Aquatic Ecosystems	**10.00**	1.1.1	Fish Habitat	4.00
						1.1.2	Fish Community	6.00
							Fisheries and Aquatic Ecosystems Subtotal	**10.00**
			1.2	Terrestrial Ecosystems	**3.25**	1.2.1	Wildlife Habitat and Wildlife	2.25
						1.2.2	Vegetation	1.00
							Terrestrial Ecosystems Subtotal	**3.25**
		13.25		FACTOR TOTAL	13.25		SUB FACTOR TOTAL	13.25
	TITLE	WEIGHT		TITLE	WEIGHT		TITLE	WEIGHT
2.0	**SOCIO-ECONOMIC ENVIRONMENTAL FACTOR GROUP**	**31.25**	2.1	Land Use Planning Policies, Goals, Goals, Objectives	**4**	2.1.1	First Nations Land Claims	2.00
						2.1.2	Municipal (regional and local) land use planning goals and objectives	2.00
							Land Use Planning Policies, Goals, Objectives Subtotal	**4.00**
			2.2	Land Use/Community – Long Term	**10.25**	2.2.1	Urban Residential	1.25
						2.2.2	Commercial/Industrial/Local Businesses - Economy	9.0
							Land Use/Community Subtotal	**10.25**
			2.3	Community Disruption – Short Term	**10**	2.3.1	Duration of Construction Disruption to the traffic / downtown area / economy (during initial construction and subsequent rehabilitations)	5.00
						2.3.2	Degree Construction of Traffic Disruption between the north and south sides of Caledonia (during initial construction and subsequent rehabilitations)	1.00
						2.3.3	Impact to Police and Emergency Services (Fire and Ambulance) (allows EMS unimpeded crossing of bridge during initial construction and subsequent rehabilitations)	4.00
						2.3.4	Accommodation for pedestrians and cyclists during construction (during initial construction and subsequent rehabilitations)	0.00
						2.3.5	Navigation (during construction)	0.00
						2.3.6	Before/After Disruption to Business	
							Community Disruption – Short Term Subtotal	**10.00**
			2.4	Land Use / Resources	**3.00**	2.4.1	First Nations Treaty Rights or Use of Land and Resources for Traditional Purposes	**2.00**
						2.4.2	Parks and Recreational Areas	**1.00**
							Land Use / Resources Subtotal	**3.00**
			2.5	Tourism	**4**	2.5.1	Tourism	**4.00**
							Tourism Subtotal	**4.00**
		31.25		FACTOR TOTAL	31.25		SUB FACTOR TOTAL	31.25

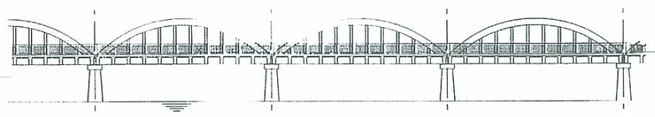


Argyle Street Bridge Preliminary Design and Class EA Study
Proposed Factors and Sub-Factors
To Be Considered in the Generation and Evaluation Of Alternatives

FACTOR GROUPS			FACTOR			SUB - FACTOR		
	TITLE	WEIGHT		TITLE	WEIGHT		TITLE	WEIGHT
3.0	**CULTURAL FACTOR ENVIRONMENTAL GROUP**	**28.25**	3.1	Cultural Heritage – Heritage Bridge in the Nationally Designated Grand River Heritage Watershed	**12.70**	3.1.1	Bridge listed on the Ontario Heritage Bridge List and Grand River Heritage Bridge Inventory	8.30
						3.1.2	Bridge Aesthetics/Community Landmark and Gateway	4.40
							Cultural Heritage – Heritage Bridge Subtotal	**12.70**
			3.2	Cultural Heritage – Built Heritage and Heritage and Cultural Landscapes	**10.75**	3.2.1	Buildings, Structures, or Resources of Heritage Significance	4.75
						3.2.2	Cultural Heritage Landscapes	3.00
						3.2.3	Cultural Heritage Streetscapes	3.00
							Cultural Heritage – Built Heritage and Cultural Landscapes Subtotal	**10.75**
			3.3	Cultural Heritage - Archaeology	**4.80**	3.3.1	Pre-Historic and Historic First Nations Archaeological Sites and Burial Sites	2.40
						3.3.2	Historic Euro-Canadian Archaeological Sites	2.40
							Cultural Heritage - Archaeology Subtotal	**4.80**
		28.25		FACTOR TOTAL	28.25		SUB FACTOR TOTAL	28.25
	TITLE	WEIGHT		TITLE	WEIGHT		TITLE	WEIGHT
4.0	**TRANSPORTATION AND ENGINEERING FACTOR GROUP**	**27.25**	4.1	Traffic Operations – Long Term	**9.0**	4.1.1	Traffic capacity and operations	7.00
						4.1.2	Accommodation for pedestrians and cyclists	2.00
						4.1.3	Additional Subfactor ?	
							Traffic – After Implementing Long Term Strategy Subtotal	**9.00**
			4.2	Geometrics	**5.0**	4.2.1	Permanent Alignment (Smooth continuous lines, without abrupt turns)	2.00
						4.2.2	Operational Safety (lane widths, etc.)	3.00
							Geometrics Subtotal	**5.00**
			4.3	Structural Engineering	**9.0**	4.3.1	Structural Durability and Future Maintenance Requirements	4.00
						4.3.2	Structural Foundation Performance	2.00
						4.3.3	Hydraulic Capacity (ability to handle 100 year storm flow)	1.00
						4.3.4	Constructability (Ease to build, construction access etc.) (initial and subsequent construction/rehabilitations)	2.00
							Structural Engineering Subtotal	**9.00**
			4.4	Construction Cost	**4.25**	4.4.1	Construction Cost for Bridge (excludes property and engineering costs)(cost effectiveness)	1.50
						4.4.2	Construction Cost for Detour and Construction Staging (initial and subsequent construction)	1.00
						4.4.3	Property Cost	0.25
						4.4.4	Life Cycle Cost	1.50
							Construction Cost Subtotal	**4.25**
		27.25		FACTOR TOTAL	27.25		SUB FACTOR TOTAL	27.25
	GRAND TOTAL	**100**						



APPENDIX 1
LIST OF INVITEES
INVITATION LETTER



a) First Nations

Kate Cave, Land Use Supervisor Lands and Resources
Six Nations of the Grand River Territory
2498 Cheifswood Road
P.O. Box 5000
Ohsweken, Ontario N0A 1M0

Joanne Thomas, Land Use Officer Lands and Resources
Six Nations of the Grand River Territory
Ohsweken, Ontario N0A 1M0

b) Interest Groups

Don Smith, President
Caledonia Business Improvement Association
15 Argyle Street North
Caledonia, Ontario N3W 1B6

Carol Ritchie
Caledonia Regional Chamber of Commerce
P.O. Box 2035
1 Grand Trunk Lane
Caledonia, Ontario M3W 2G6

Ann Unyi, Curator
Haldimand County Museum and Archives
8 Echo Street
Box 38
Cayuga, Ontario N0A 1E0

Karen Richardson, Curator
Haldimand County Museum and Archives
8 Echo Street
Box 38
Cayuga, Ontario N0A 1E0
Lynn Robinson
Local Architectural Conservation Advisory Committee
950 Highway 54
Cayuga, Ontario
N0A 1E0

Wilfred Ferwerda, Board member , International Council on Monuments and Sites
Senior Construction Co-ordinator
Planning, Engineering & Construction
Physical Resources
University of Guelph
Guelph, Ontario
N1G 2W1

c) Federal and Provincial Government

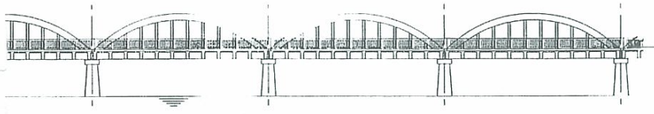
Andrew Marshall, Resources Planning
Grand River Conservation Authority
400 Clyde Road
P.O. Box 729
Burlington, Ontario L7R 4K3

Barbara Veale, Coordinator of Policy, Planning and Partnerships
Grand River Conservation Authority
400 Clyde Road
P.O. Box 729
Cambridge, Ontario N1R 5W6

Eva Salter, Consultant
Ministry of Citizenship & Immigration, Ministry of Culture
301 St. Paul Street
St. Catharine's, Ontario L2R 7R4

Tamara Anson-Cartwright, Heritage Advisor
Ministry of Culture
400 University Avenue, 4th Floor
Toronto, Ontario M7A 2R

Andy Turnbull, Senior Structural Engineer
Ministry of Transportation, Southwestern Region
659 Exeter Road
London, Ontario N6E 1L3



Tanya Cross, Senior Project Manager
Ministry of Transportation, Southwestern Region
659 Exeter Road
London, Ontario N6E 1L3

Kevin Boudreau, Field Services Engineer
Ministry of Transportation, Southwestern Region
659 Exeter Road
London, Ontario N6E 1L3

Susan Wagter, Environmental Planner
Ministry of Transportation, Southwestern Region
659 Exeter Road
London, Ontario N6E 1L3

Penny Young, Regional Archaeologist and Heritage Advisor
Ministry of Transportation, Southwestern Region
659 Exeter Road
London, Ontario N6E 1L3
Conor Byrne, Traffic Analyst
Ministry of Transportation, Southwestern Region
659 Exeter Road
London, Ontario N6E 1L3

d) Municipality

Dan Robinson, Manager, Fire Services
Haldimand County
3-100 Haddington Street
Caledonia, Ontario N3W 2N4

Ernie Jones - Land Ambulance
Haldimand County
282 Argyle Street South
Caledonia, Ontario N3W 1K7

Edward Soldo, P. Eng., Manager of Engineering
Haldimand County
282 Argyle Street South
Caledonia, Ontario N3W 1K7

Tyson Haedrich
Haldimand County
P.O. Box 400, 45 Munsee Street North
Cayuga, Ontario N0A 1E0

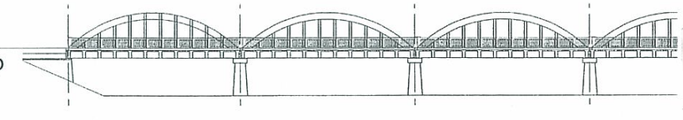
Wendy Whitfield, Manager, Heritage & Culture
Haldimand County
P.O. Box 400, 45 Munsee Street North
Cayuga, Ontario N0A 1E0

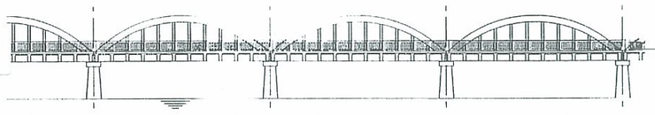
Karl Huyge, Manager, Economic Development
Haldimand County
P.O. Box 400, 45 Munsee Street North
Cayuga, Ontario N0A 1E0
Lloyd Rollinson, Supervisor, Projects Engineering
Haldimand County Museum and Archives
8 Echo Street
Cayuga, Ontario N0A 1E0

Elaine Brunn-Shaw, Manager of Planning
Haldimand County
45 Munsee Street North
Cayuga, Ontario N0A 1E0

Plus 2 residents

Councillor Craig Grice as an observer





INVITATION LETTER

Re: Argyle Street Bridge Long-Term Strategy, Caledonia, Haldimand County, Ministry of Transportation G.W.P. 3805-01-00 Invitation to Evaluation Factor Weighting Workshop

Dear _____:

Morrison Hershfield Limited has been retained by the Ministry of Transportation to conduct the Preliminary Design and Environmental Assessment Study for the rehabilitation or replacement strategy of the Argyle Street South Bridge. This project is a continuation of the work that was initiated in 2002.The evaluation of alternatives is an integral component of the Environmental Assessment. To ensure that appropriate consideration is given to the various evaluation factors, we invite you to participate in an Evaluation Factor Weighting Workshop with about 25 representatives of key interest groups and agencies.

The Evaluation Factor Weighting Workshop is planned for:

Wednesday, September 26, 2007
Royal Canadian Legion, 29 Caithness Street E. (at Argyle Street)
Caledonia, Ontario N3W 1B7
9:00 - 4:30 pm

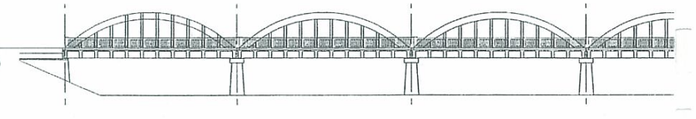
The purpose of the Evaluation Factor Weighting Workshop is to provide a project update, present short-listed alternatives for the rehabilitation or replacement of the bridge, review the evaluation factors and sub-factors, and request participants to assign a numerical value, or "weight", to each evaluation factor and sub-factor. These weightings will then be applied by the project team in the evaluation of the bridge alternatives. Ministry and consultant staff, as well as specialists of individual areas, will be in attendance in the Workshop to provide input or to answer questions on various issues. An independent facilitator will assist in the running of the workshop.

The Evaluation Factor Weighting Workshop is a critical activity that could have a significant impact on the selection of the preferred alternative. Your attendance and input in the workshop is very important

Please reply by Tuesday, September 11, 2007 to confirm your attendance. We have attached a fax back from, or you are welcome to contact Donna Hinde by phone or email as noted below. Following confirmation of your attendance, we will distribute background information to be reviewed in advance of the Workshop.

The recommendations that result from the evaluation of alternatives will be presented to the public in a Public Information Centre scheduled for November, 2007 in Caledonia. Notices advising of the time and location will be published in local newspapers and provided via letter mail to agencies and individuals on the project mailing lists. Upon completion of the long-term strategy study, a Transportation Environmental Study Report (TESR) will be prepared and will be available for public review. Another notice will be published and mailed to agencies and individuals on the project mailing lists at that time.

If you have any questions or concerns, please contact the undersigned. We look forward to your participation at the Evaluation Factor Weighting Workshop on September 26.



Yours truly,

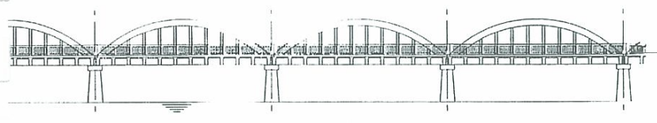
Ms. Donna Hinde
Weighting Workshop Facilitator
The Planning Partnership
1255 Bay Street, Suite 201
Toronto, Ontario M5R 2A9

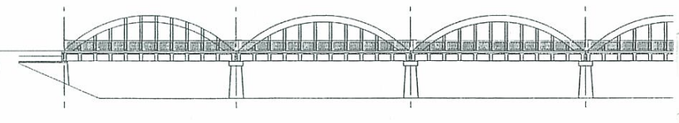
Phone: (416) 975-1556
Fax: (416) 975-1580
dhinde@planpart.ca

or

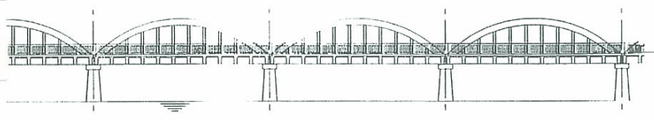
Mr. Edward Li
Project Manager
Morrison Hershfield Ltd.
235 Yorkland Boulevard
Toronto, Ontario M2J 1T1

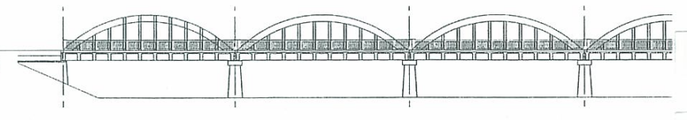
Phone: (416) 495-4228
Fax: (416) 499-4509
Eli@morrisonhershfield.com





APPENDIX 2
AGENDA





ARGYLE STREET BRIDGE

Evaluation Factor Weighting Workshop

Royal Canadian Legion, Caledonia, 29 Caithness Street East

September 26, 2007

9:00 a.m. Coffee and registration

9:30 a.m. Welcome and introduction

Donna Hinde, The Planning Partnership

9:35 a.m. Project background and purpose of the Workshop

Tanya Cross, Project Manager, Ministry of Transportation

9:40 a.m. Project presentation

Transportation and Engineering Factor Group:

Current Condition of the bridge, *Edward Li, Morrison Hershfield*

Key considerations of cost, *Andy Turnbull, Ministry of Transportation*

Natural Environmental Factor Group, *Paul Draycott, Morrison Hershfield*

Socio-economic Environmental Factor Group, *Jason Loftus, Morrison Hershfield*

Cultural Environmental Factor Group, *Chris Andreae, Archaeological Services*

10:50 a.m. Study Plan, Environmental Assessment Process and Bridge Alternatives

Susan Wagter, Ministry of Transportation

11:00 a.m. Questions of clarification

Donna Hinde, The Planning Partnership

11:15 a.m. Introduce Workshop Process, Activities and Application of the Results

Fred Leech, Ministry of Transportation

Donna Hinde, The Planning Partnership

11:25 a.m. Workshop Activity #1 - Weighting of the Factor Groups

Fred Leech, Ministry of Transportation

12:00 Lunch

12:30 p.m. Continue with Workshop Activity #1 - Weighting of the Factor Groups

Fred Leech, Ministry of Transportation

1:15 p.m. Workshop Activity #2 – Weighting of Factors and Sub-Factor

Fred Leech, Ministry of Transportation

2:30 pm Break

2:45 pm Presentation of Factors and Sub-factor Factor Group leads

3:30 p.m. Wrap up and summary of next steps

Tanya Cross, Project Manager, Ministry of Transportation