Final Cultural Heritage Evaluation Report:
Hillside Topiary Signs
For
METROLINX
Prepared by:
Reviewed by:
MORRISON HERSHFIELD

Gannett Fleming Project No. 060277
Metrolinx Electrification Project
Contract No. QBS-2014-IEP-002

Submittal Date: September 2017
METROLINX GO RAIL ELECTRIFICATION

Quality Assurance
Document Release Form

Name of Firm: Archaeological Services Inc. (ASI)

Document Name: Final Cultural Heritage Evaluation Report: Hillside Topiary Signs Rev.2

Submittal Date: September 8, 2017

Discipline: Environmental Assessment

Prepared By: Lauren Archer Date: December 23, 2016

Reviewed By: Annie Veilleux Date: September 8, 2017

Approved By: Rebecca Sciarra Date: September 8, 2017

Project Manager

The above electronic signatures indicate that the named document is controlled by GF Canada ULC, and has been:

1. Prepared by qualified staff in accordance with generally accepted professional practice.
2. Checked for completeness and accuracy by the appointed discipline reviewers and that the discipline reviewers did not perform the original work.
3. Reviewed and resolved compatibility interfaces and potential conflicts among the involved disciplines.
4. Updated to address previously agreed-to reviewer comments, including any remaining comments from previous internal or external reviews.
5. Reviewed for conformance to scope and other statutory and regulatory requirements.
6. Determined suitable for submittal by the Project Manager.

Prepared By: ASI 09-08-2017
## REVISION HISTORY

<table>
<thead>
<tr>
<th>Revision</th>
<th>Date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>August 30, 2016</td>
<td>Initial Release to Metrolinx</td>
</tr>
<tr>
<td>1</td>
<td>December 23, 2016</td>
<td>Revised report reflecting new information, corrected information, client review comments, etc.</td>
</tr>
<tr>
<td>2</td>
<td>September 8, 2017</td>
<td>Final Report to Metrolinx reflecting new template and finalization</td>
</tr>
</tbody>
</table>
# Final Cultural Heritage Evaluation Report: Hillside Topiary Signs

## Table of Contents

**Executive Summary**

1 **Introduction**
   1.1 Description of Property
   1.2 Historical Summary
   1.3 Current Context

2 **Methodology and Sources**
   2.1 Legislation and Policy Context
   2.2 Approach to Cultural Heritage Evaluation Report
      2.2.1 List of Key Sources and Research Limitations
   2.3 Consultation

3 **Heritage Recognitions**
   3.1 Municipal
   3.2 Provincial
   3.3 Federal

4 **Adjacent Lands**

5 **Summary of Archaeological Assessments**

6 **Community Input**

7 **Discussion of Cultural Heritage Value**
   7.1 Discussion of Historical or Associative Value
      7.1.1 Settlement History
      7.1.2 Significant Themes, Events and/or People
   7.2 Discussion of Design and Physical Value
      7.2.1 Physical Characteristics
      7.2.2 Comparative Analysis
   7.3 Discussion of Contextual Value
      7.3.1 Description of Setting and Character of the Property and Surroundings
      7.3.2 Community Landmark

8 **Data Sheet**

9 **Figures**

Prepared By: ASI 09-08-2017
REPORT DISCLAIMER

NOTWITHSTANDING the results and recommendations presented in this study, Archaeological Services Inc. notes that no cultural heritage assessment, no matter how thorough or carefully completed, can necessarily identify every property and/or structure that has not been previously identified as a known or potential cultural heritage resource. Cultural heritage assessments for transportation related projects are limited to the public right-of-way, and as such, potential cultural heritage resources on private property may be screened from view by vegetation and/or other barriers. In the event that a potential cultural heritage resource is found during subsequent construction activities, the consultant cultural heritage specialist and approval authority should be immediately notified.
Executive Summary
ASI was contracted by Morrison Hershfield on behalf of Metrolinx to conduct a Cultural Heritage Evaluation Report (CHER) and Cultural Heritage Evaluation Recommendation Report (CHERR) of the Hillside Topiary Signs on the Lakeshore West rail corridor between miles 3.03 to 3.63 as part of the GO Rail Network Electrification Transit Project Assessment Project (TPAP). Metrolinx is undertaking a TPAP study under Ontario Regulation 231/08 - Transit Projects and Metrolinx Undertakings for electrification of the GO Rail Network. The Hillside Topiary Signs were identified as a Potential Provincial Heritage Property as part of the Cultural Heritage Screening Report completed for the GO Rail Network Electrification TPAP.

The Hillside Topiary Signs are located between Roncesvalles Ave. and Dowling Ave., adjacent to the GO Transit Lakeshore West rail corridor. The property is currently owned by Metrolinx and leased by Hillside Communications. The topiary signs consist of low-lying frames, with dark green yew and marble chipped stone. The initial five signs were first installed in 1988, following an extensive cleanup of the property that removed 23 tonnes of garbage in preparation for the topiary signs. Fourteen signs are now found on the slope, visible from both the GO Transit Lakeshore West rail corridor and the Frederick G. Gardiner Expressway. The topiary signs are reportedly seen by upwards of 350,000 people a day.

Part 1 of this CHER provides a description of the potential cultural heritage resources, including a summary of its historical and current context (Section 1), a description of methodology and sources (Section 2), existing heritage recognition of the resource (Section 3), a description of adjacent lands (Section 4), summary of previous archaeological assessment (Section 5), community input (Section 6), and discussion of cultural heritage value (Section 7). A data sheet in provided in Section 8 and figures, including mapping and photographs, are provided in Section 9. Part 2 of this CHER contains the Recommendations Report which presents the evaluation tables outlining criteria set out in Ontario Regulations 9/06 and 10/06 and recommended outcome of the evaluation.

The CHER was conducted by Lauren Archer, Cultural Heritage Specialist, Cultural Heritage Division, ASI.
1 Introduction
ASI was contracted by Morrison Hershfield on behalf of Metrolinx to conduct a Cultural Heritage Evaluation Report (CHER) and Cultural Heritage Evaluation Recommendation Report (CHERR) of the Hillside Topiary Signs, as part of the GO Rail Network Electrification Transit Project Assessment Process (TPAP). Metrolinx is undertaking a Transit Project Assessment Process under Ontario Regulation 231/08 - *Transit Projects and Metrolinx Undertakings* for electrification of the GO Rail Network. The purpose of the Project is to convert the GO Network from diesel to electric power. The Hillside Topiary Signs were identified as a Potential Provincial Heritage Property as part of the Cultural Heritage Screening Report completed for this Project.

The objective of this CHER is to provide evidence about reasons why the subject resource may be of cultural heritage value or interest, and identify the physical elements that contribute to its heritage value. Research for this CHER was conducted under the senior project management of Lindsay Graves, Assistant Manager of the Cultural Heritage Division, ASI.

1.1 Description of Property
The Hillside Topiary Signs are located in part of Lot 34-33, Broken Front (West of Yonge Street) in the historic Township of York in the former County of York. The study area is located south of King Street West, north of the Gardiner Expressway between Roncesvalles Ave. and Dowling Ave.

1.2 Historical Summary
The Hillside Topiary Sign area was established in 1988 as a part of the Metropolitan Toronto Landscape Beautification Programme for the Canadian National Railway (CNR) Embankment along the Frederick G. Gardiner Expressway. The lands were leased by the CNR to Gerry Mahoney of Continental Graphics/Hillside Communications for the installation of topiarian emblems displaying corporate names or logos (Toronto Archives 1987).

1.3 Current Context
The Hillside Topiary Sign area is located at Mile 3.54 of the Lakeshore West rail corridor within the City of Toronto (Figure 1-1 and Figure 1-2). The property consists of fourteen topiary signs, which display the names or logos of local businesses for advertising, including one centrepiece topiary which displaces a City of Toronto sign. These topiary signs are visible by travelers over four rail lines, the Gardiner Expressway, and Lakeshore Boulevard West. The property is currently owned by Metrolinx, and is leased to and maintained by Hillside Communications.
Figure 1-1: Location of Hillside Topiary Signs study area in the City of Toronto, Ontario (Open Street Map)

Figure 1-2: View of the Hillside Topiary Signs from the Sunnyside Pedestrian Bridge, looking northeast.
2 Methodology and Sources

2.1 Legislation and Policy Context

This cultural heritage evaluation considers cultural heritage resources in the context of improvements to specified areas, pursuant to Ontario Regulation 231/08: Transit Projects and Metrolinx Undertakings (Transit Projects Regulation) and the Ontario Environmental Assessment Act (EAA 1990). Pursuant to the Environmental Assessment Act, applicable infrastructure projects are subject to assessment so as to determine related impacts on above ground cultural heritage resources (MTO 2006). Infrastructure projects have the potential to impact cultural heritage resources in a variety of ways such as loss or displacement of resources through removal or demolition and the disruption of resources by introducing physical, visual, audible or atmospheric elements that are not in keeping with the resources and/or their setting.

When considering cultural heritage resources in the context of improvements to specified areas, a 40 year old threshold is used as a guiding principle when identifying cultural heritage resources. While identification of a resource that is 40 years old or older does not confer outright heritage significance, this threshold provides a means to collect information about resources that may retain heritage value. Similarly, if a resource is slightly younger than 40 years old, this does not preclude the resource from retaining heritage value.

The TPAP is defined in sections 6-17 in Ontario Regulation 213/08: Transit Projects and Metrolinx Undertakings, and provides a series of relevant provisions and definitions. The TPAP Guide (January 2014) includes provisions to consider when the proposed project may have a negative impact on a matter of provincial importance, which is defined as follows (2014: 2):

“...a matter of provincial importance that relates to the natural environment or has cultural heritage value or interest...”

The TPAP Guide further notes that identification and assessment of potentially impacted built heritage resources, cultural heritage landscapes, and protected heritage properties are relevant in determining if a matter is of ‘provincial importance’ (2014: 10). It should be noted that the TPAP Guide acknowledges that a built heritage resource, cultural heritage landscape, or protected heritage property does not necessarily need to meet criteria set out under Regulation 10/06 of the Ontario Heritage Act to be considered of ‘provincial importance’.

The analysis used throughout the cultural heritage resource assessment process addresses cultural heritage resources under other various pieces of legislation and their supporting guidelines:

- Environmental Assessment Act (R.S.O. 1990, Chapter E.18)
2.2 Approach to Cultural Heritage Evaluation Report


- A general description of the history of the study area as well as a detailed historical summary of property ownership and building(s) development;
- A description of the cultural heritage landscape and built heritage resources;
- Representative photographs of the exterior and interior of a building or structure, and character-defining architectural details;
- A cultural heritage resource evaluation guided by the *Ontario Heritage Act* criteria;
- A summary of heritage attributes;
- Historical mapping, photographs; and
- A location plan.
A site visit was conducted by Lauren Archer, Cultural Heritage Specialist, on August 9th, 2016, to conduct photographic documentation of the subject resource. The assessment was conducted from publicly-accessible areas.

Using background information and data collected during the site visit, the cultural heritage resource is evaluated using criteria contained within Regulation 9/06 and 10/06 of the Ontario Heritage Act. The two criteria sets share a requirement to fully understand the history, design and associations of all cultural heritage resources of the property. The following differences between the two sets of criteria should be noted (Metrolinx 2014: 12):

- Regulation 9/06 requires a consideration of the community context
- Regulation 10/06 requires a consideration of the provincial context

### 2.2.1 List of Key Sources and Research Limitations

**Key Sources**

Background historical research, which includes the consultation of primary and secondary source documents, photos, and historic mapping, was undertaken to identify early settlement patterns and broad agents or themes of change in a study area. In addition, on-site archival research was undertaken at the following libraries and archives to build upon information gleaned from other primary and secondary materials:

- City of Toronto Archives; and
- Archives of Ontario.

Available federal, provincial and municipal heritage inventories and databases were also consulted to obtain information about the property. These included:

- The City of Toronto’s *Inventory of Heritage Properties* and list of Heritage Conservation Districts;
- The Ontario Heritage Trust’s *Provincial Plaque Program* database;
- Park’s Canada’s *Directory of Federal Heritage Designations*, a searchable on-line database that identifies National Historic Sites, National Historic Events, National Historic People, Heritage Railway Stations, Federal Heritage Buildings, and Heritage Lighthouses; and
- Park’s Canada’s *Canada’s Historic Places* website: a searchable on-line register that provides information on historic places recognized for their heritage value at the local, provincial, territorial and national levels.
Previous consultant reports associated with potential above-ground cultural heritage resources and archaeological resources within and/or adjacent to the GO Rail Network Electrification TPAP included the following:

- Cultural Heritage Screening Report: GO Rail Network Electrification TPAP (ASI 2016)

A full list of references consulted can be found in Section 11 of this CHER.

Research Limitations
No research limitations were identified.

2.3 Consultation
Consultation with the Ontario Heritage Trust, the Ministry of Tourism, Culture, and Sport (MTCS), and heritage staff at the City of Toronto regarding the subject property took place as part of the Cultural Heritage Screening Report (ASI 2016), and is summarized below.

<table>
<thead>
<tr>
<th>Contact</th>
<th>Organization</th>
<th>Contact Information</th>
<th>Date(s) of Communications</th>
<th>Description of Information Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kiki Aravopoulos, Easements</td>
<td>Ontario Heritage Trust</td>
<td><a href="mailto:Kiki.Aravopoulos@heritagetrust.on.ca">Kiki.Aravopoulos@heritagetrust.on.ca</a></td>
<td>November 12, 2015 November 27, 2015</td>
<td>Heritage Easement List</td>
</tr>
<tr>
<td>Coordinator</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sherry Pedersen, Program</td>
<td>City of Toronto, Heritage Preservation</td>
<td><a href="mailto:speders@toronto.ca">speders@toronto.ca</a></td>
<td>November 3, 2015 November 13, 2015</td>
<td>No information received at the time of report writing.</td>
</tr>
<tr>
<td>Manager</td>
<td>Services</td>
<td></td>
<td>November 27, 2015 December 8, 2015</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>February 18, 2016</td>
<td></td>
</tr>
<tr>
<td>Karla Barboza, Heritage</td>
<td>Ministry of Tourism, Culture and Sport</td>
<td><a href="mailto:Karla.Barboza@ontario.ca">Karla.Barboza@ontario.ca</a></td>
<td>November 27, 2015 December 8, 2015</td>
<td>Confirmed known PHPs along corridors; provided direction on other reports/EA studies to review.</td>
</tr>
<tr>
<td>Advisor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3 Heritage Recognitions

3.1 Municipal
The subject property is not currently listed as a heritage property by the City of Toronto, nor is it designated under Part IV or V of the Ontario Heritage Act.
3.2 Provincial
The subject property does not retain heritage recognition at the provincial level for the following reasons:

- The property is owned by Metrolinx, however, has not previously been identified as a Provincial Heritage Property; and
- The property has not been commemorated by the Ontario Heritage Trust.

3.3 Federal
The subject property does not retain heritage recognition at the federal level for the following reasons:

- The property does not contain a Federal Heritage Building; and
- The property is not a National Historic Site.

4 Adjacent Lands
There are no heritage properties located adjacent to the Hillside Topiary Sign lands.

5 Summary of Archaeological Assessments
The Stage 1 Archaeological Assessment for the GO Rail Network Electrification TPAP is currently underway (ASI, in progress). Once completed, this report will provide information about archaeological potential in the study area.

6 Community Input
Heritage Toronto, Sunnyside Historical Society, Heritage Preservation Services, the Toronto Historical Association, and the Toronto Railway Historical Association were contacted to collect any information relating to the Hillside Topiary Signs (Table 6-1). Only a response from the Sunnyside Historical Society had been received at the time of writing. See Appendix A for questionnaire responses received and Table 6-1 for a list of organizations contacted and a description of information received. No concerns regarding the heritage value or local community interest were identified. A review of various online sources did not reveal any interest from the community in the potential heritage value of the Hillside Topiary Signs.

Table 6-1: Results of Community Consultation for the Hillside Topiary Signs

<table>
<thead>
<tr>
<th>Contact</th>
<th>Organization</th>
<th>Contact Information</th>
<th>Date(s) of Communications</th>
<th>Description of Information Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jack Gibney</td>
<td>Sunnyside Historical</td>
<td><a href="mailto:jack@pvhs.info">jack@pvhs.info</a></td>
<td>5th August 2016</td>
<td>Indicated that the Sunnyside Historical Society does not have any</td>
</tr>
</tbody>
</table>

Prepared By: ASI 09-08-2017
Table 6-1: Results of Community Consultation for the Hillside Topiary Signs

<table>
<thead>
<tr>
<th>Contact</th>
<th>Organization</th>
<th>Contact Information</th>
<th>Date(s) of Communications</th>
<th>Description of Information Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>n/a</td>
<td>Society</td>
<td></td>
<td></td>
<td>historic research on the Topiary signs, and does not consider the signs to have Contextual, Design or Historical value. States that advertising is not heritage.</td>
</tr>
<tr>
<td>n/a</td>
<td>Toronto Railway Historical Association</td>
<td>255 Bremner Blvd, Unit 15 <a href="mailto:info@trha.ca">info@trha.ca</a></td>
<td>5th August 2016</td>
<td>No information received at the time of report writing.</td>
</tr>
<tr>
<td>n/a</td>
<td>Heritage Toronto</td>
<td>157 King Street East, 3rd Floor <a href="mailto:email@heritagetoronto.org">email@heritagetoronto.org</a></td>
<td>5th August 2016</td>
<td>No information received at the time of report writing.</td>
</tr>
<tr>
<td>n/a</td>
<td>Toronto Historical Association</td>
<td>P.O. Box 67, 260 Adelaide St. E <a href="mailto:info@torontohistory.net">info@torontohistory.net</a></td>
<td>5th August 2016</td>
<td>No information received at the time of report writing.</td>
</tr>
</tbody>
</table>

7 Discussion of Cultural Heritage Value

7.1 Discussion of Historical or Associative Value

7.1.1 Settlement History

*York Township*

The history of York Township as a territorial division began in 1791 when Augustus Jones surveyed the township. The first land patents were granted in 1796 and by 1813 all of the township lands had been parcelled. By 1802, the township, bounded by the Humber River and Etobicoke Township to the west and sharing a border with Scarborough Township to the east, had a grist mill, two saw mills and two taverns. In 1801, the combined population of York, Etobicoke and Scarborough Townships and the Town of York numbered only 678 but by 1840 the population of York Township numbered more than 5,000 and an economic boom during the 1850s helped to triple the population.

This growth is demonstrated in the 1860 Tremaine Map (see Figure 9-1), which depicts the area surrounding the location of the Hillside Topiary Signs. Municipal lots fronting on modern day Queen Street West form to the north of the study area. The Hillside Topiary Signs area is located within an area of undeveloped agricultural land owned by Alex Dunn. Queen Street West and the rail line are depicted in their extant location.

Prepared By: ASI 09-08-2017
Toronto continued to grow during this time by expanding its borders. Villages in the township and their years of incorporation included Yorkville (1884) and North Toronto (Eglinton and Davisville combined, 1889). The villages of Riverdale, Rosedale, the Annex, Seaton Village and Sunnyside were all annexed directly to Toronto during the 1880s. The annexation of East Toronto occurred in 1908. This trend of continual growth is demonstrated in the 1878 Illustrated Historical Atlas Map (Figure 9-2), which depicts the growth experienced by the Town of York, represented by increased construction and roadway improvements within the community of Parkdale, adjacent to the study area.

The evolution of the city continued at an even greater pace through the late nineteenth and early twentieth centuries, with the consolidation of rail systems and the growth of numerous industrial and commercial operations within the city limits and along the rail corridors. The geographic area of the city doubled between 1891 and 1912, and the population grew from 181,000 to 378,000 during the same period.

The 1903 Fire Insurance Plan (Figure 9-3) shows the development of the modern day alignment of King Street. All properties north of King Street were divided into municipal lots. The area south of King Street, including the study area, is occupied entirely by the Grand Trunk Railway right of way, and several other ancillary structures including a water works and a toll gate. The 1909 NTS Map shows the further development of the neighbourhoods of Parkdale and Sunnyside, with residential buildings identified along the north side of King Street West. (Figure 9-4)

The 1923 Fire Insurance Plan (Figure 9-6) depicts the study area as having undergone significant changes, with improvements to Lakeshore Road and the construction of a grade separated crossing over the rail tracks as part of the Parkdale Grade Separation Project. Other notable changes include the development of a recreational area to the south of the rail line along Sunnyside Beach, including a roller coaster, swimming pavilion, and other structures, as seen in the 1962 Plan of the City of Toronto (Figure 9-5).

Construction of the Gardiner Expressway in the late 1950s dramatically altered the transportation routes adjacent to the study area. The Gardiner Expressway is depicted along its present alignment, as is Lakeshore Boulevard and King Street West to the north of the study area. The 1987 aerial photograph was taken just before the lease of the properties from CN Rail to Hillside Communications for the purposes of beautification and the erection of branded topiary signs. (Figure 9-6) The property appears to be vacant. Both the Sunnyside Pedestrian Bridge and the former Dowling Ave Bridge appear in the photograph. This bridge is now also a pedestrian bridge. The 1988 NTS mapping is consistent with this mapping, and identifies a curling club, yacht club, and beach adjacent to the study area (Figure 9-7).

The 1988 aerial photograph was after lease of the properties from CN Rail to Hillside Communications for the purposes of beautification and the erection of branded topiary signs (Figure 9-8). Five topiary
signs have been installed by the time of the photograph, including the centerpiece ‘Toronto’ sign, intended to act as a gateway into the city. At least seven signs can be seen in the 1992 aerial photograph (Figure 9-9).

7.1.2 Significant Themes, Events and/or People

Railway Development
The Lakeshore West rail corridor follows the tracks initially laid in 1855 from Toronto to Hamilton by the Hamilton & Toronto Railway Company (HTR). The HTR Company was established by Sir Allan MacNab and a number of other investors, with additional financial support from England, and a charter was granted in 1852. Construction on the line began in 1853. The line was initially leased to the GWR, who in turn supplied railway stations along the corridor (Paterson & George 1988:13). Extending from downtown Toronto, the rail line passed through Mimico, Port Credit, Clarkson, Oakville, Bronte, Burlington, and finally Hamilton. In 1871, the HTR amalgamated with the GWR, and in 1882 the GWR amalgamated with the GTR. In 1920, control of the GTR was assumed by the Canadian Government and three years later, in 1923, the GTR was amalgamated with Canadian National Railways (CNR) (Andreae 1997). The Lakeshore West Corridor was Canada’s busiest railway corridor during the nineteenth and most of the twentieth century (Paterson & George 1988: 15, 24). The Lakeshore West Line was purchased by GO Transit in 1967, and has operated commuter rail service on it to the present.

The Parkdale Grade Separation was a large project carried out between 1910 and 1912 to improve the flow of rail and vehicular transportation within the City of Toronto by created grade-separate crossings between the rail lines and roadways. The Parkdale Grade Separation was carried out between Strachan Avenue to Mimico, a distance of approximately six miles (9.65 km) and involved the construction of four bridges and nine underpasses (Kennedy 2009; McLeod & McNeil 1979). Former South Parkdale Station was demolished at this time, and Sunnyside Station was constructed nearby to facilitate the change in grade of the rail line.

Sunnyside Rail Station
Sunnyside Station was built in 1910 and served as an important passenger station until its closure in 1971. Built by the GTR after the Parkdale Grade Separation Project lowered the rail line below grade, Sunnyside Station was located at street level, with a staircase to access the rail platforms below grade. This station replaced the earlier South Parkdale Station, located nearby at Jameson Avenue. Sunnyside Station was ideally located for passengers to access the Sunnyside amusement area, as well as the electric streetcar network nearby (Old Time Trains 2009). The station was demolished in 1973, and was formerly located at the northwest end of the Hillside Topiary signs property.

Frederick G. Gardiner Expressway
The Gardiner Expressway was constructed in the downtown core of the City of Toronto between 1955 and 1965 as a main artery linking the Queen Elizabeth Way (QEW) and Highway 427 in the west with the
Don Valley Parkway in the east. The Gardiner Expressway was spearheaded (and named in honour of) Frederick G. Gardiner, a City of Toronto Councillor, and consists of at-grade sections as well as large portions that are elevated above grade by steel spans supported by concrete piers.

**Hillside Communications Lease**

In January of 1987 Mr. Gerry Mahoney contacted the Parks, Recreation and Property Committee of Metropolitan Toronto to discuss a potential beautification programme for the C.N.R. embankment along the north side of the Frederick G. Gardiner Expressway. The C.N.R. had agreed to lease the hillside area to him, from the pedestrian bridge at Roncesvalles Ave., to Dowling Ave. His plan was to invite local area corporations to assist with the clean up, landscaping and beautification of the lands, and in return, they would receive space on the hill to install a landscaped corporate name or logo. (Toronto Archives 1987) Gerry Mahoney’s objective was to “ensure an overall positive visual image for the entire length of the hillside” that “truly enhances the environment and can be enjoyed by those travelling along the City of Toronto’s premier gateway, the Frederick G. Gardiner Expressway.” The primary concern of Metro Council was the effect that these signs may have on traffic safety, and that tobacco and alcohol advertisers be excluded. A By-Law Amendment to By-law No. 1893 was passed in May of 1987 permitting the signs. (Toronto Archives 1987)

Following this approval Gerry Mahoney established Hillside Communications, the same company that maintains the topiary signs today.

In April of 1988, the following work plan was proposed and approved by Metro Council:

- **April 9th, 1988:** Clean up of litter by a crew of 40 over the weekend.
- **April 18th, 1988:** Begin construction of first four topiary emblems.
- **Mid-June 1988:** First phase completed, with opening scheduled for June 25th.
- **Early August 1988:** Completion of two additional topiary signs.
- **Mid-April 1989:** Start construction of two additional topiary signs.
- **Early August 1989:** Completion of two final topiary signs.

A fifth sign, a centerpiece topiary, was also proposed to be built to promote Metropolitan Toronto, which Hillside Communications would plan and build every year, consistent with a theme chosen by Council. The topiary emblems were completed on time. (Toronto Archives 1988)

According to the Toronto Star (June 1988) a crew cleaning up an embankment of the Gardiner Expressway in Parkdale removed 20 tonnes of garbage from the hillside including 10,000 stomach bitters bottles and hundreds of empty tubes of glue. Three drifters who lived under the remnants of an old bridge nearby were also displaced. On June 29th the opening ceremony ribbon was cut by Metro Chairman Dennis Flynn. By 1992 seven topiary signs were built, six commercial signs and one municipal centerpiece sign. This gradual construction continued until fourteen topiary signs were constructed.
These topiary signs have remained a gateway feature along the Gardiner, continuously updated and maintained by Hillside Communications (Blackett 2010).

7.2 Discussion of Design and Physical Value

7.2.1 Physical Characteristics

The following description of the Hillside Topiary Signs is based on a description of the original landscape plan, historical photographs and air photos, and a site visit. See Section 9.3, Figures 9-15 to 9-22 for detailed photographs.

The proposed detailed landscape plan in 1987 includes the description of ten landscaped corporate logos, created by closely planted dark green yews. The original plan included an underplanting of a light green ground cover called goatweed to provide a strong colour contrast in the logo. Each logo or corporate name was proposed to be 70-80 metres long by five metres wide, and confined within a frame of pressure treated timbers. Between the logos Royalty Crabapple trees, vines and grasses were also planted along the embankment. (Toronto Archives 1987)

Modifications

Five signs were initially built in 1988. By 1992 seven topiary signs had been built. This continued until fourteen topiary signs were constructed. Goatweed was replaced by white landscaping stone or chipped white marble as the contrasting material, however, low lying densiformis, or dense yew, has remained the primary planting since 1988.

Existing Conditions

This property is now owned by Metrolinx. The topiary signs currently displayed by Hillside Communications on the embankment adjacent to the Gardiner Expressway consist of:

- Two signs for non-commercial (charitable) messaging with a sign face area of approximately 50 square metres.

- One sign with first party copy identifying Metrolinx with a sign face area of approximately 135 square metres.

- Ten signs with third party copy with sign face areas ranging from 103 square metres to 220 square metres. The content of these third party signs is limited to logos or corporate symbols.

- One sign dedicated to the City of Toronto comprised of various landscaping materials including a 3.3 metre high wall created out of wood timbers at the back of the display. This
sign also includes 6 flag poles displaying the flags of The City of Toronto, The Province of Ontario and Canada.

All signs consist of low lying densiformis, or dense yew and white crushed landscaping stone (City of Toronto 2014).

7.2.2 Comparative Analysis
Two examples of similar topiary signs along major roadway embankments have been identified in the immediate area:

- The Deloitte topiary sign at the intersections of Highway 407, the QEW, and Highway 403 in Burlington, ON; and
- The Abcon Media topiary signs at the intersection of Highway 27 and Rexdale Boulevard.

The Deloitte sign is located in front of the Deloitte office at 1005 Skyview Drive in Burlington, no other corporate signs or logos are present on the embankment. It consists of a low-lying dark green yew background, contrasted by marble chip stone which, in corporate font, spells out Deloitte. Deloitte also retains a space along the Hillside Communications embankment in the study area that is of a similar composition.

The Abcon Media signs are a relatively new venture, modeled after the Hillside Communications model. Abcon Media has leased space close to the Woodbine Race Track, which is owned by the Woodbine Entertainment Group, and has obtained an amendment to the sign by-law to allow 24 third-party topiary ads along Highway 27 and Rexdale Boulevard. The project, which Abcon calls Living Logo, intends to consist of 24 ads by the end of 2018. The first topiary is affiliated with the Woodbine Entertainment Group’s charity #WEGCares. These topiary signs are composed of a combination of wood, stone, plants and paints, which are promoted as biodegradable. The base and frame are built on the ground out of wood and the logo shape is carved out of marine plywood, mounted upon the base’s platform. The logo is then filled with white marble chips and is contrasted with green grass. Each logo will be 16 feet high and 50 to 60 feet wide, depending on the size of the logo (Fatah 2016).
Neither of these examples have been listed or designated under the Ontario Heritage Act, and they are not considered potential cultural heritage resources by any other jurisdiction.

Plans for a similar landscape advertising program for the Lincoln M. Alexander and Red Hill Valley Parkways in Hamilton were proposed in 2010, however, this attempt was not successful for a number of reasons. First, the business case was not comparable, with only 90,000 daily travelers on the displays on the Lincoln M. Alexander and Red Hill Valley Parkways on a daily basis, compared to the Gardiner Expressway and Lakeshore Road volume of at least 350,000 vehicles per day (City of Hamilton 2013).

The existing topography of the Lincoln M. Alexander and Red Hill Valley Parkways consists of multiple access points, minimal embankment depth, rock face and elevation changes creating challenges to a sustainable landscape advertising program (City of Hamilton 2013).

Additionally, driver distraction by advertising continued to be a concern. A 1999 City of Toronto works department report found that the accident rate along the Gardiner Expressway is twice as high as on the Don Valley Parkway, though they share nearly identical traffic volumes (City of Hamilton 2013).

Based on this review, it is apparent that similar topiary signs are not considered to be cultural heritage resources in other jurisdictions. No comparative examples of heritage advertising topiary signs could be identified.
7.3 Discussion of Contextual Value

7.3.1 Description of Setting and Character of the Property and Surroundings

The Hillside Topiary Sign property is located adjacent to one of the major vehicular access points to the City of Toronto, and is visible to over 350,000 commuters every day (City of Hamilton 2013). The area north of the topiary signs consists of the Beaty Boulevard Parkette at 1575 King Street West, a narrow parkette along the south side of King Street, which is the location of the Katyń Monument. North of the parkette is the established residential community of Parkdale.

The area south of the bridge features extensive recreational facilities, including walking/cycling boardwalks, gardens, swimming facilities, and the beaches of Lake Ontario. The Sunnyside pedestrian bridge serves as the link for all the residents in the neighborhoods north of the rail track to experience the popular recreational areas on Lake Ontario, and provides a viewing platform for pedestrians wishing to view the lake and recreation areas from an elevated vantage point. The Sunnyside pedestrian bridge was evaluated in a separate CHER.

Palais Royale (Designated Part IV, By-Law 563-84), an event hall, concert venue, and social establishment popularized in the early 1920’s, is located to the southeast of the bridge. This structure, as well as the nearby Sunnyside Bathing Pavilion, is all that remains of the once popular Sunnyside Amusement Park, modeled after New York’s Coney Island (Palais Royale Ballroom 2014).

7.3.2 Community Landmark

The Hillside Topiary signs are a known landmark along the Gardiner Expressway, Lakeshore Road and the from the Metrolinx corridor. The signs act as a gateway feature to the downtown core, and are recognizable features that are viewed a reported 350,000 times a day (City of Hamilton 2013).
8 Data Sheet

<table>
<thead>
<tr>
<th>Property Name:</th>
<th>Hillside Topiary Signs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Municipal Address:</td>
<td>n/a</td>
</tr>
<tr>
<td></td>
<td>43°38’22.0”N 79°27’12.1”W</td>
</tr>
<tr>
<td>Municipality:</td>
<td>City of Toronto</td>
</tr>
<tr>
<td>Metrolinx/GO Transit Rail Corridor:</td>
<td>Lakeshore West</td>
</tr>
<tr>
<td>PIN:</td>
<td>214160062</td>
</tr>
<tr>
<td>Ownership:</td>
<td>Metrolinx</td>
</tr>
<tr>
<td>Date of Construction:</td>
<td>1988</td>
</tr>
<tr>
<td>Architect/Designer/Builder:</td>
<td>Hillside Media Communications (City of Toronto agreement No. PG14007)</td>
</tr>
<tr>
<td>Previous Owner(s)/Occupant(s):</td>
<td>CN Rail</td>
</tr>
<tr>
<td>Current Function:</td>
<td>Ornamental Advertising</td>
</tr>
<tr>
<td>Previous Function(s)</td>
<td>Location of the former Sunnyside Station</td>
</tr>
<tr>
<td>Heritage Recognition/Protection:</td>
<td>None identified</td>
</tr>
<tr>
<td>Local Heritage Interest:</td>
<td>None identified</td>
</tr>
<tr>
<td>Adjacent Lands:</td>
<td>No protected heritage properties.</td>
</tr>
</tbody>
</table>
9 Figures

9.1 Historic Map Review

Figure 9-1: View of the study area on 1860 historical mapping (Tremaine1860)

Figure 9-2: View of the study area on 1878 historic mapping (Miles & Co. 1878)
Figure 9-3: View of the study area on 1903 Fire Insurance Plan (Goad 1903)

Figure 9-4: View of the study area on 1909 Topographic Map (Ministry of Militia and Defence 1909)
Figure 9-5: View of the study area on 1923 Fire Insurance Map (Goad 1923)

Figure 9-6: View of the study area on 1962 plan of the City of Toronto (Toronto Archives 1962)
Figure 9-7: View of the study area on 1987 aerial photograph (Toronto Archives 1987)

Figure 9-8: View of the study area on 1988 Topographic Map (Ministry of Militia and Defence 1988)
Figure 9-9: View of the study area on 1989 aerial photograph (Toronto Archives 1989)

Figure 9-10: View of the study area on 1992 aerial photograph (Toronto Archives 1992)
9.2 Historical Photographs

Figure 9-11: View of the study area in 1912 during the Parkdale Grade Separation (Toronto Archives Series 373, Subseries 51, Item 155, 1912)

Figure 9-12: View of the study area in 1915, with completed Sunnyside Station at right (Toronto Archives, Fonds 1231, Item 1041, 1915)
Figure 9-13: View of the study area in 1965, with Sunnyside Beach and Pool at left and future topiary sign embankment in background, looking eastward (Toronto Archives, Fonds 200, Series 1465, File 333, Item 9, 1965)

Figure 9-14: View of the study area in 1959, with the Gardiner Expressway on the right, the CN Rail lands on the left, and the future topiary sign embankment in background, looking eastward (Toronto Archives, Fonds 1526, File 46, 1959)
9.3 Site Visit Photographs

Figure 9-15: View of the Hillside Topiary Signs, looking eastward, from the Sunnyside Pedestrian Bridge.

Figure 9-16: View of the Hillside Topiary Signs, looking westward, from the Dowling Ave. Pedestrian Bridge.
Figure 9-17: View of the Hillside Topiary Signs, looking westward, from the Dowling Ave. Pedestrian Bridge.

Figure 9-18: View of the Hillside Topiary Signs, looking northwest, from Lake Shore Road Pedestrian Trails
Figure 9-19: View of the City of Toronto Topiary Centerpiece, looking northeast, from the Lake Shore Road Trails.

Figure 9-20: Detail view of the United Way Topiary Sign, looking westward, from Dowling Ave.
Figure 9-21: Detail view of the Hillside Topiary Sign property as seen from Dowling Ave. The property is fenced off.

Figure 9-22: Looking south from King Street, over City of Toronto Centerpiece Topiary, Metrolinx rail lands, the Gardiner Expressway, Lake Shore Road, The Boulevard Club and Lake Ontario.
10 Chronology

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1855</td>
<td>The Hamilton &amp; Toronto Railway is built and begins service.</td>
<td>Andreae 1997</td>
</tr>
<tr>
<td>1891-1918</td>
<td>Land creation activities in Humber Bay changes the shape and extent of the shoreline</td>
<td>DVHMP.com</td>
</tr>
<tr>
<td>1910-1912</td>
<td>Parkdale Grade Separation Project creates grade-separated crossings for the railway.</td>
<td>Toronto Archives</td>
</tr>
<tr>
<td>1910-1971</td>
<td>Sunnyside GRT Station in operation</td>
<td>Toronto Archives</td>
</tr>
<tr>
<td>1922-1956</td>
<td>Sunnyside Amusement Park begins operations</td>
<td>Palaisroyale.com</td>
</tr>
<tr>
<td>1956-1958</td>
<td>Construction of the Gardiner Expressway adjacent to the study area</td>
<td>Review of aerial photographs</td>
</tr>
<tr>
<td>1986</td>
<td>Land leased by CN Rail to Mr. Gerry Mahoney</td>
<td>Toronto Archives</td>
</tr>
<tr>
<td>1987</td>
<td>By-Law Amendment to By-law No. 1893 was passed in May of 1987 permitting the signs.</td>
<td>Toronto Archives</td>
</tr>
<tr>
<td>1988</td>
<td>Property is cleaned of litter, first four topiary sign logos, plus the additional central Metropolitan Toronto sign, were constructed, consisting of dark green yews contrasted by light goatweed.</td>
<td>Review of aerial photographs, Toronto Archives</td>
</tr>
<tr>
<td>1989-Present</td>
<td>Construction proceeded gradually until fourteen signs were constructed. White chipped marble landscaping stone replaced goatweed as the contrasting material. The land has been continuously maintained by Hillside Communications.</td>
<td>Toronto Archives, Spacing Magazine</td>
</tr>
</tbody>
</table>

11 Bibliography


Prepared By: ASI 09-08-2017
City of Toronto


Fatah, Sonya

Goad, Charles E.
1903  Atlas of the City of Toronto and Vicinity From Special Survey Founded on Registered Plans and Showing All Buildings and Lot Numbers. Toronto: Chas. E. Goad.

1923  Atlas of the City of Toronto and Vicinity From Special Survey Founded on Registered Plans and Showing All Buildings and Lot Numbers. Toronto: Chas. E. Goad.

Hunting Survey Corporation Limited
1954  Aerial Photograph of Southern Ontario, Plates 436.792.

Kennedy, R.L.

McLeod, Peter and Malcolm McNeil (eds)
1979  Parkdale: A Centennial History. Toronto: Parkdale Centennial Research

Metrolinx


Miles & Co.
1878  Illustrated Historical Atlas of the County of York, and the Township of West Gwillimbury & Town of Bradford in the County of Simcoe, Ont. Toronto: Miles & Co.
Ministry of Consumer Services
  1990  Cemeteries Act
  2002  Funeral, Burial and Cremation Services Act

Ministry of Culture, Ontario
  1981  Guidelines on the Man-Made Heritage Component of Environmental Assessments
  1992  Guidelines for Preparing the Cultural Heritage Resource Component of Environmental Assessments
  2009  Ontario Heritage Act

Ministry of Tourism and Culture, Ontario
  2006  Ontario Heritage Tool Kit
  2010  Standards and Guidelines for the Conservation of Provincial Heritage Properties.
  2010  Check Sheet for Environmental Assessments: Screening for Impacts to Built Heritage Resources and Cultural Heritage Landscapes

Ministry of Environment, Ontario
  2006  Environmental Assessment Act

Ministry of Municipal Affairs and Housing, Ontario
  2005  Ontario Planning Act
  2014  Provincial Policy Statement

Ministry of Transportation
  2007  Environmental Guide for Built Heritage and Cultural Heritage Landscapes

Ministry of Tourism, Culture and Sport

Municipality of Metropolitan Toronto Roads Department
  1964  Eglinton Avenue West Bridge over CNR Tracks E. of Keele St. Replacement to Bridge, Drawing #5-211-3 (on file with the author).

Old Time Trains

Palais Royale Ballroom
Paterson, Allan and Dick George

Toronto Archives


12 Project Personnel

Corporate Responsibility: Lisa Merritt, MSc (P094)
Senior Archaeologist, Manager,
Environmental Assessment Projects (East)
Environmental Assessment Division

Senior Project Manager: Lindsay Graves, MA, CAHP
Cultural Heritage Specialist
Assistant Manager, Cultural Heritage Division

Cultural Heritage Specialist: Lauren Archer, BA Hons.
Cultural Heritage Specialist
Cultural Heritage Division

Project Coordinator: Sarah Jagelewski, Hon. BA
Staff Archaeologist
Assistant Manager, Environmental Assessment Division

Project Administration: Carol Bella, Hon. BA
Research Archaeologist
Administrative Assistant

Report Preparation: Lauren Archer

Graphics: Blake Williams, MLitt
Geomatics Specialist

Report Reviewer: Lindsay Graves

1992 Series 12, Aerial Photographs of the Metropolitan Toronto Area, 1992. Plate 48g [online]
Accessed 22 August, 2016 at http://www1.toronto.ca/wps/portal/contentonly?vgnextoid=876a26cc49946410VgnVCM10000071d60f89RCRD


Prepared By: ASI 09-08-2017
APPENDIX A: Cultural Heritage Evaluation Report Sample Questionnaire

Cultural Heritage Evaluation Report Questionnaire

Subject *
Topiary Signs

Response By *
[insert name h Jack Gibney ere]

Name of Organization *
Sunnyside Historical Society

Date *
MM DD YYYY
08 / 05 / 2016

1. Have you collected any historical information on the property? *

☐ Yes
☐ No
If yes, please provide a short description of this collection:

________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________