## Fort Needham—interpretive elements JUNE 13, 2017



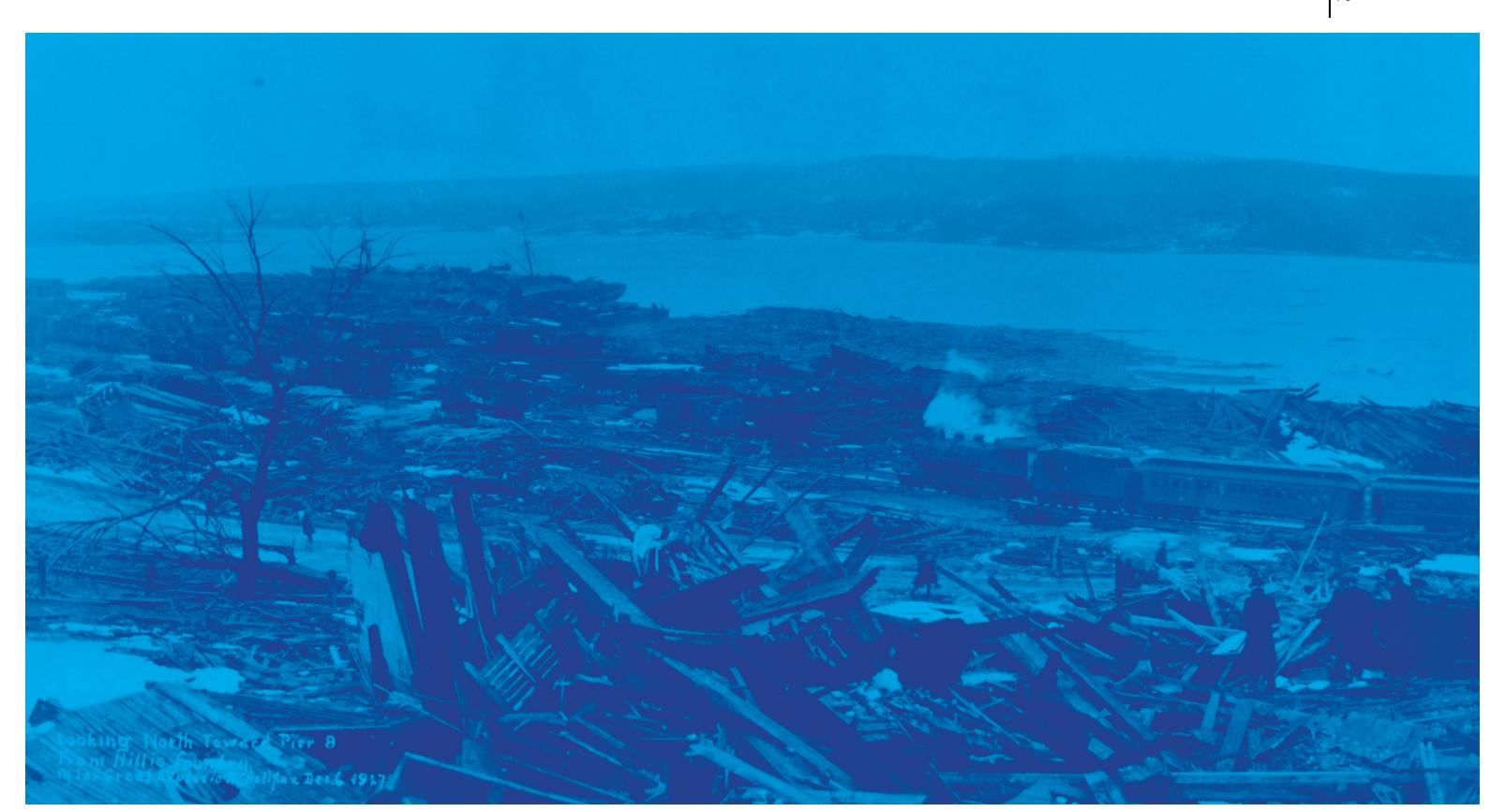
Fort Needham

?

Interpretive elements

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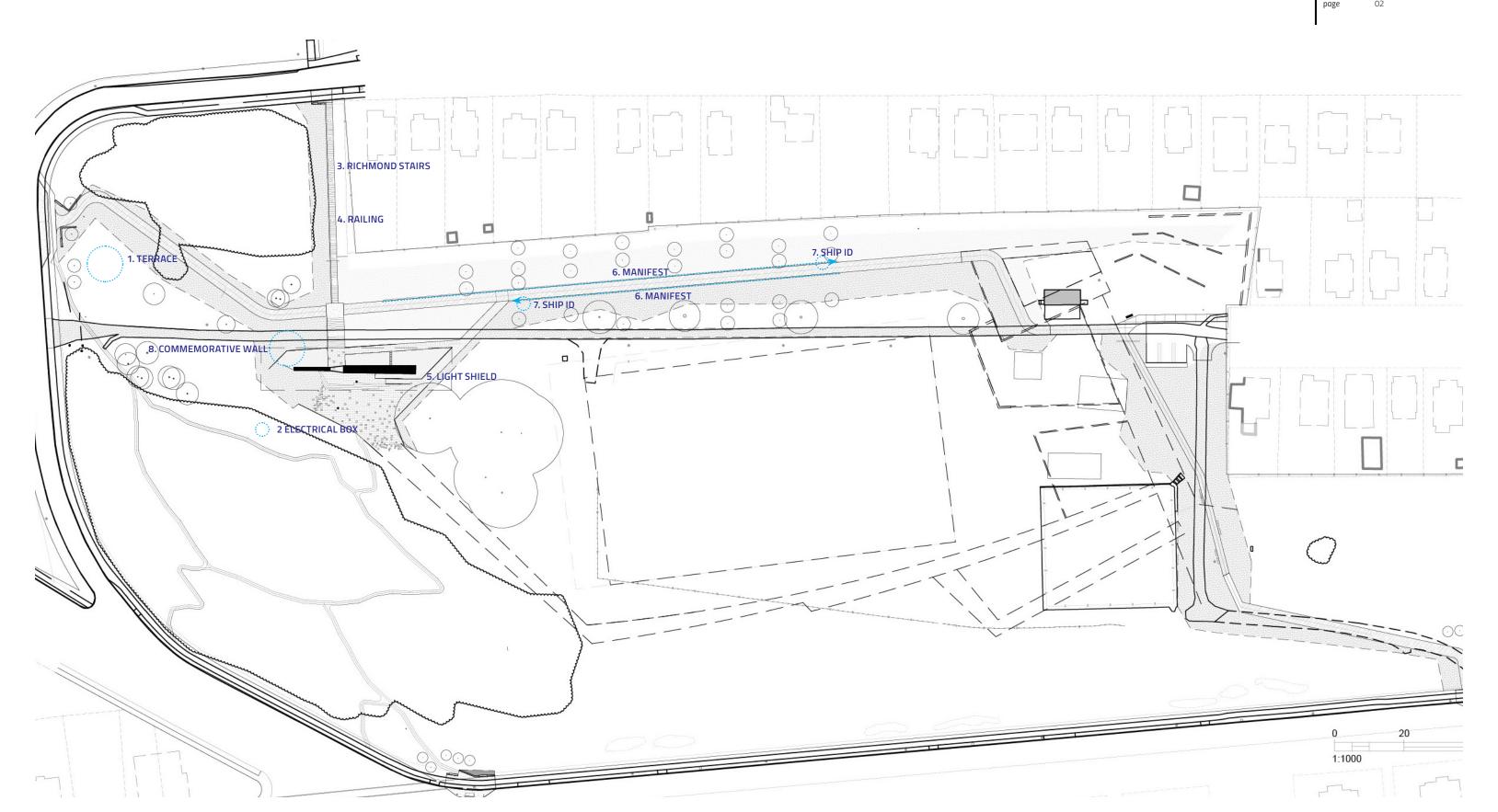
### Fort Needham—interpretive elements Location plan



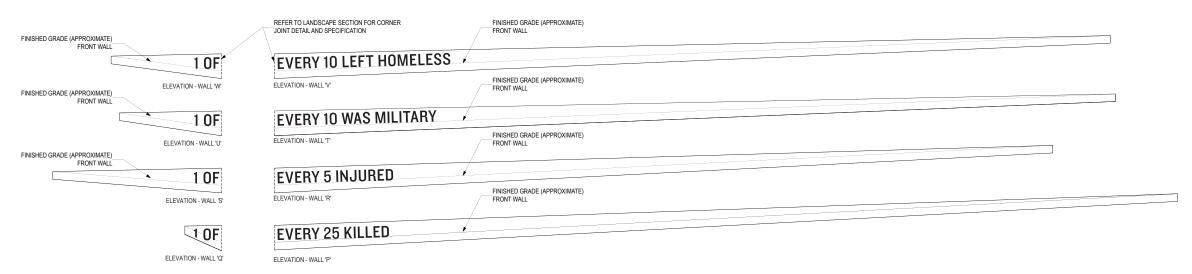
Fort Needham

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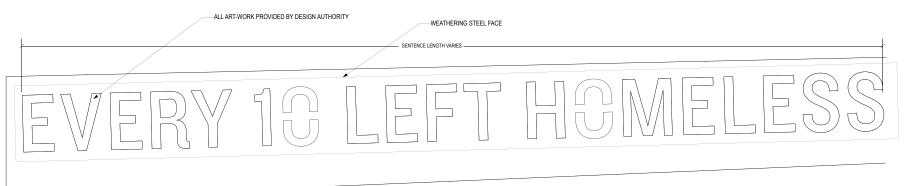


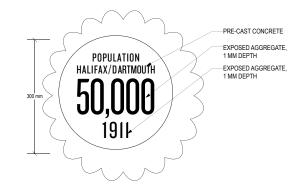
## 1. Terraces "One of every..." (memorial walk)



VERTICAL COR-TEN TERRACE WALL ELEVATIONS (WALLS P Q R S T U V W)

SCALE 1:50





MEDALLION, PLAN

2 TERRACE WALL ELEVATIONS, TYPICAL (FACE)
SCALE 1:10

#### DESIGN INTENT

content based on an urban population of approximately 50,000–60,000 in 1917¹, we had proposed the following (seen above):

- 1 of every 10 left homeless<sup>2</sup>
- 1 of every 10 residents was military<sup>3</sup>
- 1 of every 5 injured<sup>4</sup>
- 1 of every 25 killed<sup>5</sup>

#### SOURCE(S)

- 1. per Fifth Census of Canada (1911): 46,619 in Halifax City, 5201 in Dartmouth Town, and 595 naval residents.
- 2. "6,000 people were left without shelter" from the Maritime Museum of the Atlantic's Halifax Explosion Infosheet, https://maritimemuseum.novascotia.ca/what-see-do/halifax-explosion/halifax-explosion-infosheet
- 3. "Counting the 323 British Army recruits in the city, nearly 5,000 soldiers found themselves in Halifax at the end of 1917, representing about 10 percent of the population of the city." Armstrong, J.G. The Halifax Explosion and the Royal Canadian Navy. 2002. UBC Press.
- 4. the no. of injuries has never been confirmed, but is generally quoted as 9,000–12,000 people http://www.thecanadianencyclopedia.ca/en/article/halifax-explosion/

5. number of deaths from the Halifax Explosion Remembrance Book https://novascotia.ca/archives/remembrance/ default.asp

#### MEDALLION

We include a medallion with the city's population of the time to contextualize for the visitor. We selected the 1911 census because it is the last population count prior to the explosion.

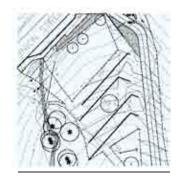


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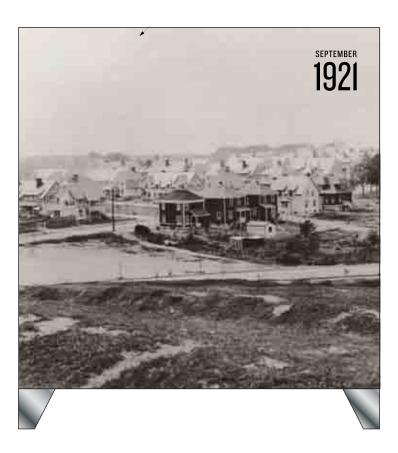
#### THEME

theme "1 of every..."
rationale Numeric information
often lacks the visceral punch necessary
for compelling interpretation. This
node relates statistics essential to
contextualizing what the explosion did
to the city. What kind of place was the
city in 1917, and how was the
population affected? When the data are
compared to the unit of one—
a single individual—it's easy for the
visitor to relate.

### 2. Electrical Box









1 ELECTRICAL BOX (SOUTH ELEVATION)

2 EAST ELEVATION
SCALE 1:10

3 NORTH ELEVATION
SCALE 1:10

WEST ELEVATION
SCALE 1:10

#### DESIGN INTENT

Views from Fort Needham hill show the reconstruction underway, looking towards Gottingen St. (now Novalea). The photo at left is from October 1918 (same as Option 2) and the one at right shows September 1921.

This is an appealing interpretive option, because it shows the same views a park visitor would have now, in historical photos. As opposed to option 2, this design shows progress from 1918 to 1921 (and naturally to today)

It might be worth adding a year to each photo to clarify the context to the visitor.

#### SOURCE(S)

- 1. NS Archives https://novascotia.ca/archives/explosion/archives.asp?ID=107
- 2. NS Archives https://novascotia.ca/archives/explosion/archives.asp?ID=108

EKISTICS PLANNING & DESIGN

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title

#### THEME

theme rebuild
rationale an electrical box is in
clear view from the memorial plaza.
To situate the visitor in the time and
place—and to disguise the stainless
steel structure—we wrap the
utility-box with images associated
with the reconstruction of the
neighbourhood post-explosion.

### 3. Stairs Richmond Staircase



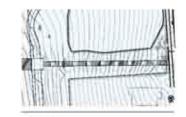
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title



#### THEME

theme community lost rationale The now lost neighbourhood name of Richmond is preserved in the staircase up Richmond Street. Anamorphic letters leading up to the monument reveal the name Richmond for those standing at the bottom— R-I-C-H-M-O-N-D. As the visitor ascends, the legibility of the name Richmond slowly dissipates. From the top looking down, the name is not visible at all.

GRAPHIC FACE

2% SLOPE

2 STAIR SECTION, TYPICAL SCALE: 1:20

-CLIENT TO PROVIDE FINAL ARTWORK

RICHMOND STAIRCASE (PERSPECTIVE)

SCALE: NOT TO SCALE

### 3. Stairs Richmond Staircase



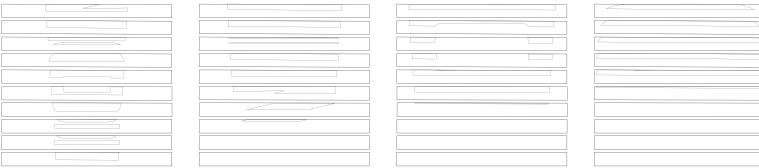
Fort Needham

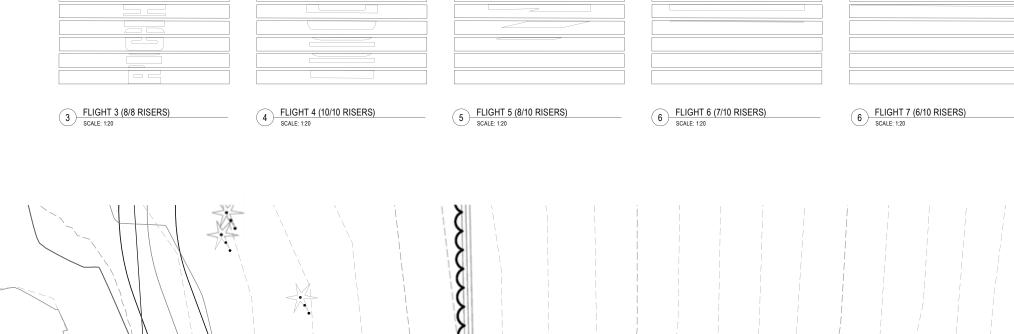
Interpretive elements

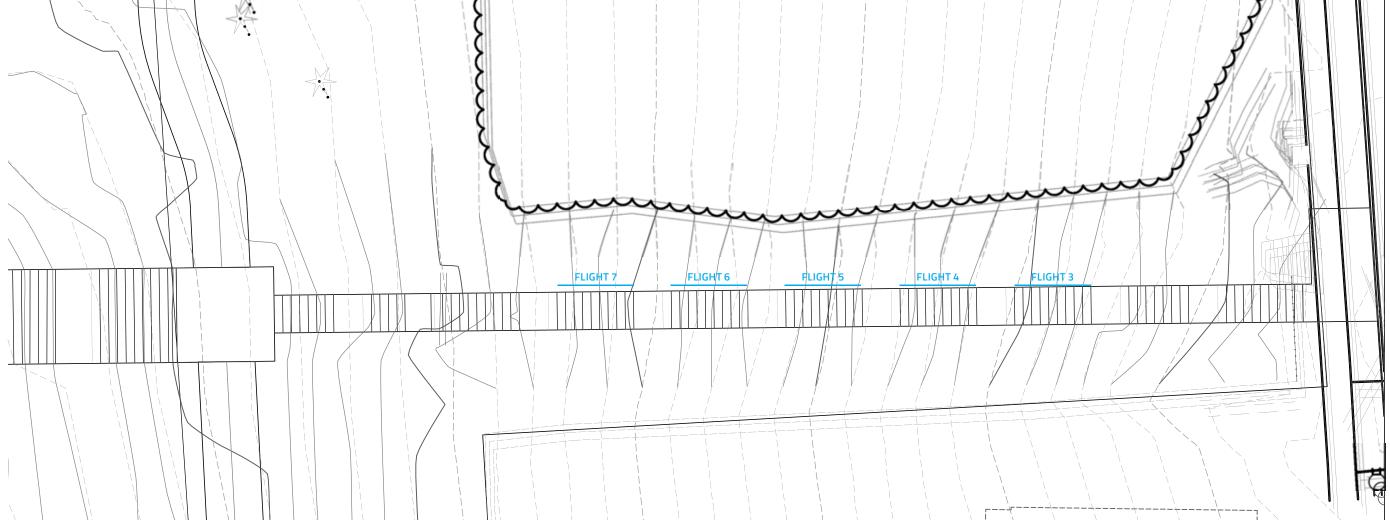
June 13, 2017

title

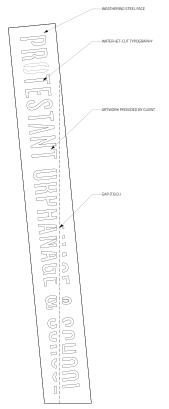
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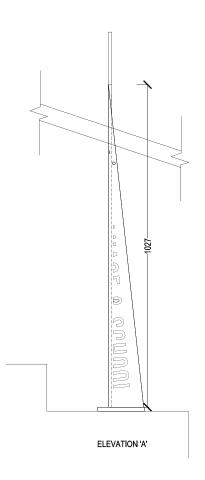


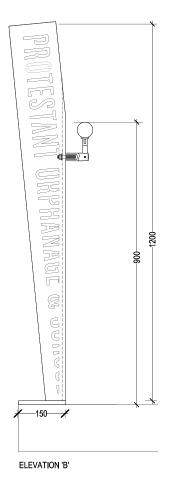




### 4. Railings Community Lost Railing





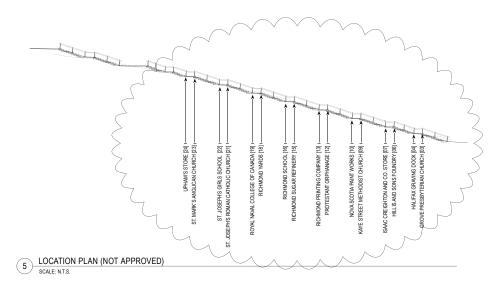


### 1 RAILING (FLATTENED ELEVATION) SCALE 1:5



2 RAILING (SOUTH ELEVATION)
SCALE 1:5

3 RAILING (EAST ELEVATION)
SCALE 1:5





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#### RATIONALE

To choose names for this element, we cross-referenced

fire-insurance plans showing destroyed buildings. The list is

Names and spelling were based on McAlpine's Directory

for 1917 and the Kitz/Payzant (2015). Spelling and naming

were not standardized in 1917, so we chose common  $\!\!/$ 

functional names for the facility in Richmond wherever

to institutions which were in what was known as Richmond, including a few which were nearby. Richmond

In several cases we normalized names of churches to

On the next page we have a map showing the locations

of the destroyed businesses and institutions, and some

never had any recognized official boundary.

information about sources and dates.

include their denomination.

possible, over official corporate names. We limited the list

known institutions and businesses in the area with

representative, but cannot be considered exhaustive.

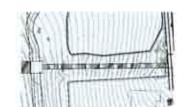
GROVE PRESBYTERIAN CHURCH HALIFAX GRAVING DOCK HILLIS AND SONS FOUNDRY ISAAC CREIGHTON AND CO. STORE KAYE STREET METHODIST CHURCH NOVA SCOTIA PAINT WORKS PROTESTANT ORPHANAGE RICHMOND PRINTING COMPANY RICHMOND SUGAR REFINERY RICHMOND SCHOOL RICHMOND YARDS ROYAL NAVAL COLLEGE OF CANADA ST. JOSEPH'S ROMAN CATHOLIC CHURCH ST. JOSEPH'S GIRLS SCHOOL ST. MARK'S ANGLICAN CHURCH UPHAM'S STORE

#### SOURCE(S)

DESIGN INTENT

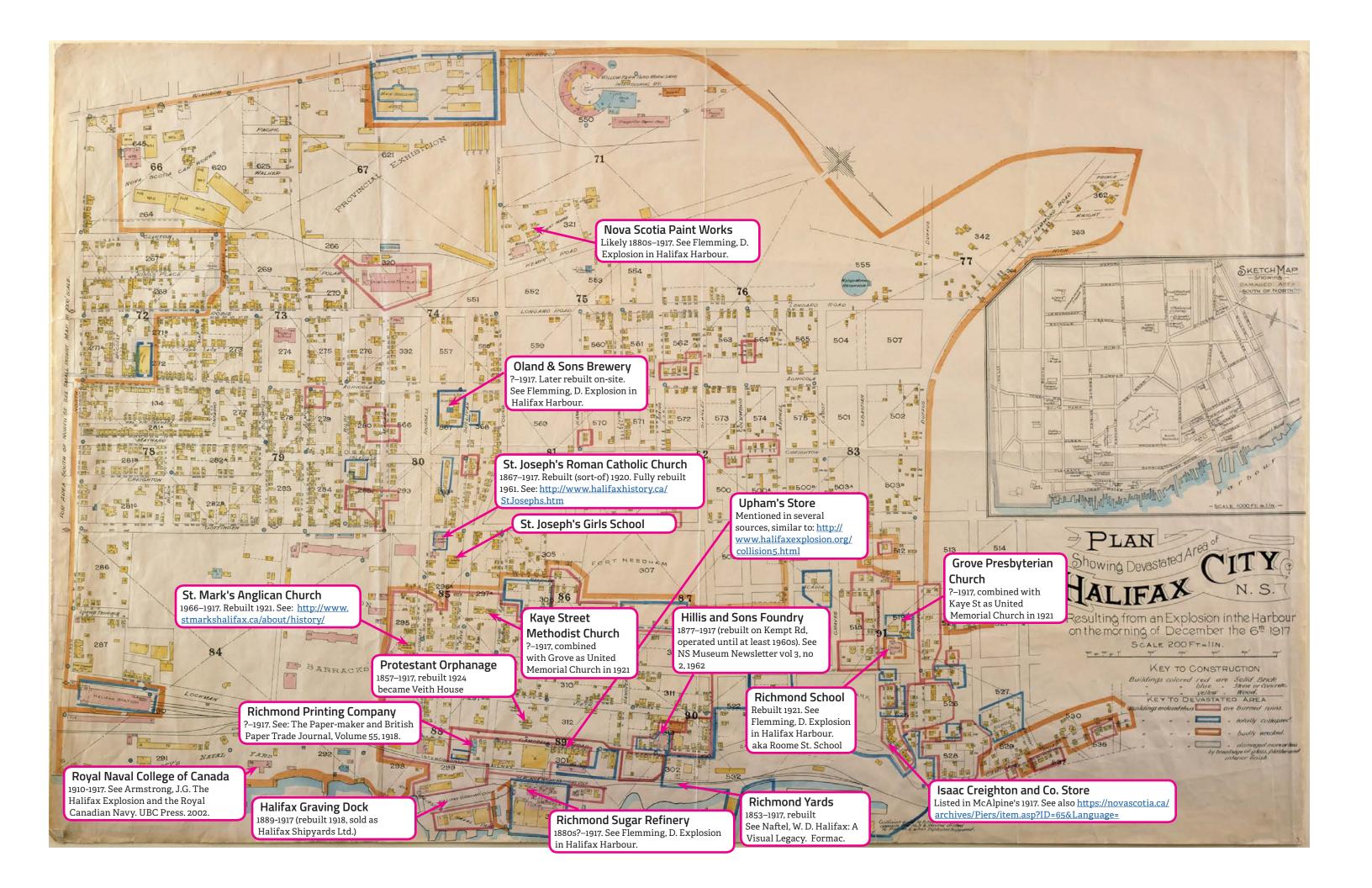
content

- 1. Kitz, J. and Payzant, J. (2015). December 1917. Nimbus Publishing.
- 2. Plan showing devastated area of Halifax City, N.S. https://novascotia.ca/archives/maps/archives.asp?ID=71
  Morton, S. (1990).
- 3. Men and Women in a Halifax Working-Class Neighbourhood in the 1920s. Dalhousie University.
- 4. McAlpine's Halifax City Directory 1917, Halifax Regional Library, call# RH 917:1622 H17 1917



#### THEME

theme community lost rationale The vertical parts of the handrail of the staircase (the balusters) list some important neighbourhood businesses and institutions which were lost to the explosion. The list is not exhaustive list, but contains major businesses and institutions known to be operating in Richmond in 1917.

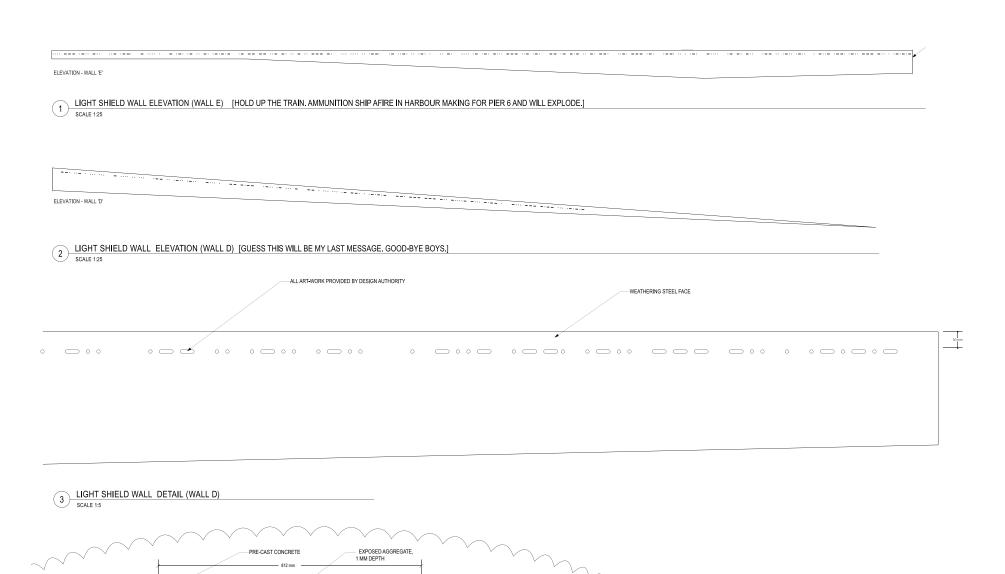


### 5. Light Shield Morse Code

**VINCE COLEMAN** 

LAST TRANSMISSION

**DECEMBER 6, 1917** 





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title

DESIGN INTENT

Good-bye boys."

SOURCE(S)

explosion

content [as morse code]: "Hold up the train.

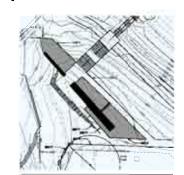
Ammunition ship afire in harbor making for Pier 6 and will explode. Guess this will be my last message.

content The date gives contest to the timing of the message. The name, Vince Coleman, suggests there is meaning behind the pattern of dots and dashes.

Maritime Museum of the Atlantic

https://maritimemuseum.novascotia.ca/what-see-do/ halifax-explosion/vincent-coleman-and-halifax-

"06 December 1917—Vince Coleman"



#### THEME

title Memorial light shield rationale We interpret Vincent Coleman's selfless act to stop trains entering Halifax just before the explosion by incorporating his telegraph message into a morse-code light show.

### 6. Manifest Ship cargo manifest



(BACK)	500 SMALL BARRELS \$24,750 VALUE (1917) USD			
(SLAT 6)	1,400 BARRELS \$425,007 USD (1917)	500 SMALL BARRELS \$24,750 VALUE (1917)		
(SLAT 5)	5,950 BARRELS \$1,344,019 VALUE (1917)			
(SLAT 4)	490 BARRELS \$168,261 VALUE (1917)	2,500 SMALL BARRELS \$123,750 VALUE (1917)		
(SLAT 3)	490 BARRELS \$121,224 VALUE (1917)			
(SLAT 2)	1,500 BARRELS \$172,488 VALUE (1917)	1,500 CASES \$67,500 VALUE (1917)	194 DRUMS \$45,550 VALUE (1917)	682 CASES \$65,165 VALUE (1917) USD
(SLAT 1)	WET PICRIC ACID	TRINITROTOLUOL (TNT)	MONO-CHLORBENZOL	GUNCOTTON
	5 MONT BLANC MANIFEST BENCH 1 SCALE 1:10	6 MONT BLANC MANIFEST BENCH 2	MONT BLANC MANIFEST BENCH 3  SCALE 1:10	8 MONT BLANC MANIFEST BENCH 4 SCALE 1:10
			DEL CLANDEL IEE	
			BELGIAN RELIEF	
	4,000 SMALL BARRELS \$350,000 VISID (1917)		IMO MANIFEST BENCH-BACK 1 SCALE 1:10	
	4,000 SMALL BARRELS \$260,000 USD USD \$260,000 SMALUE (1917)			
	4,000 SMALL BARRELS \$350,000 VISTO (1917)	300 DRUMS \$58,826 USD VALUE (1917)		DESIGN INTENT
	DRY PICRIC ACID	CHLOR-BENZOL		content To provide enough information to the vessels, and the contents they were carrying
	MONT BLANC MANIFEST BENCH 5	MONT BLANC MANIFEST BENCH 6		note Design options to be presented at
	SCALE 1:10	SCALE 1:10		

THEME

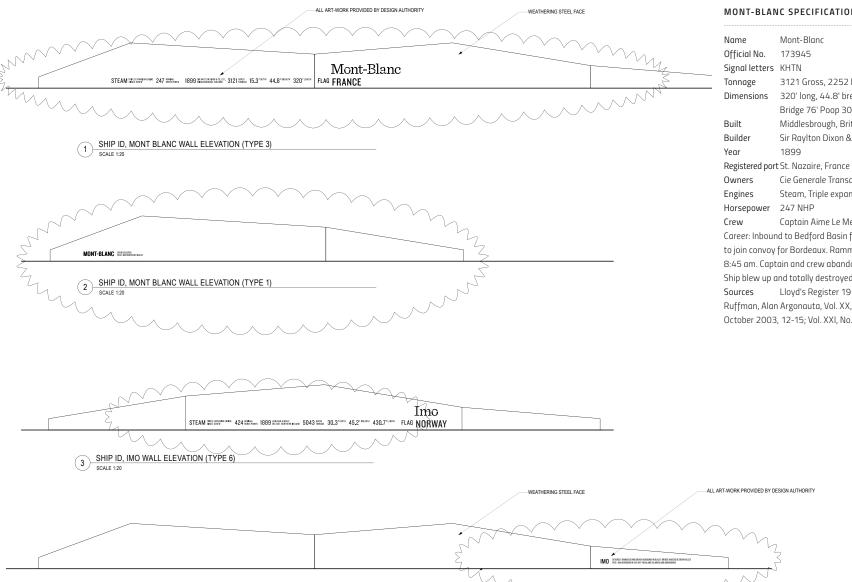
Ship cargo manifest Along the main path, walls with benches contain information about the cargo which was aboard the Mont-Blanc. Each bench will list a different material which appeared in the ship's manifest, including picric acid, trinitrotoluol, benzene and others whose reaction resulted in the explosion.

ough information to indicate the size of they were carrying (Mont Blanc). s to be presented at the next meeting.

#### SOURCE(S)

Specifications as listed in the US Treasury Department, Shipping Export Declarations for the Mont-Blanc, Nov 30 and Dec  ${\bf 3}$  , 1917 (National Archives at New York City)

# 7. Ship ID Ship specifications



#### MONT-BLANC SPECIFICATIONS

3121 Gross, 2252 Net, 2691 underdeck

320' long, 44.8' breadth, 15.3' deep Forecastle 35',

Bridge 76' Poop 30'

Middlesbrough, Britain Sir Raylton Dixon & Co. Ltd.

Cie Generale Transatlantique Steam, Triple expansion, Single screw

Captain Aime Le Medec; Halifax Pilot: Francis Mackey Career: Inbound to Bedford Basin from New York with munitions cargo

to join convoy for Bordeaux. Rammed by SS Imo on starboard stem at 8:45 am. Captain and crew abandoned ship and all but one survived.

Ship blew up and totally destroyed at 9:05 am.

Sources Lloyd's Register 1916-17; Halifax Explosion Inquiry; Ruffman, Alan Argonauta, Vol. XX, No. 3, July 2003, 9-15; No. 4, October 2003, 12-15; Vol. XXI, No. 1, January, 2004, 3.

#### IMO SPECIFICATIONS

Name Imo Official No. 93837

Signal Letters MJGB

Name changes Runic (I) 1889; Tampican 1895; Guvernoren 1920 5043 Gross, 3405 under deck, 3161 Net

430.7' long, 45.2' breadth, 30.3' deep Forecastle 48',

Bridge 30', Poop 41'

Builder Harland & Wolff

Registered port Christiania, Norway South Pacific Whaling Co.

Steam, triple expansion, single screw

Captain Haakon From, Halifax Pilot William Hayes Built as the White Star cargo liner/livestock carrier Runic

(I), later renamed Tampican. Sold and renamed Imo in 1912 as supply ship for whaling operation. Under charter to carry Belgian Relief supplies in 1917. Outbound from Halifax in ballast (empty) to load relief supplies in New York. Collided with munitions ship Mont Blanc. Heavily damaged by blast and driven ashore in Dartmouth. Six men were killed of the crew of 39 aboard. Rebuilt and renamed Guvernoren to serve as whale oil tanker. On November 30, 1921 abandoned off Falkland

Islands after running onto the rocks.

Sources Lloyd's Register 1889, 1893, 1916; North Atlantic Seaway, N.R.P. Bonsor, II, 758; White Star, Ray Anderson, 74, 91, 202, 1900; Proceedings of Drysdale Inquiry, p. 253; and additional research by Alan Ruffman



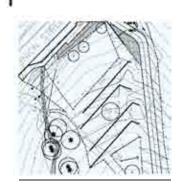
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#### THEME

title Ship identification Masts give basic details about the Mont-Blanc and Imo, the ships which caused the explosion. Details include flag, type, location, casualties aboard, and the fate of each craft post-explosion.

Maritime Museum of the sources

Atlantic advice

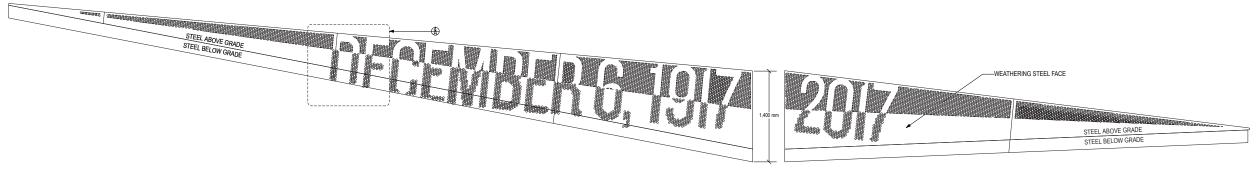
DESIGN INTENT

To relate the scale and volume of contents of the ship, by using a retaining wall as a representation of two ships: the Mont-Blanc and the Imo.

SOURCE(S)

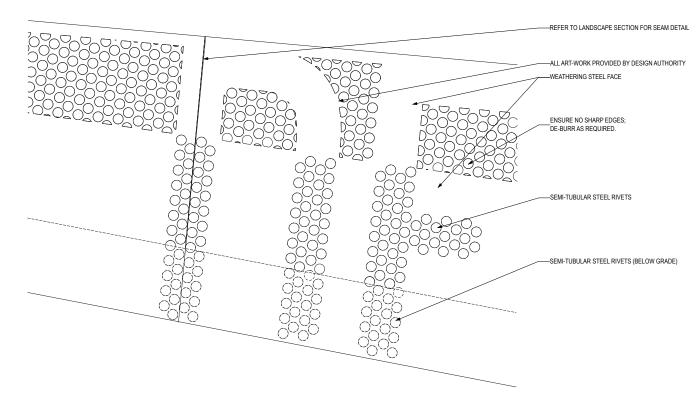
Materials as listed on the Maritime Museum of the Atlantic website. Middlesborough UK was misspelled as "Middlesboro".

### 8. Commemorative Wall 6 December 1917/2017 wall



COMMEMORATIVE DATE WALL ELEVATION (WALL B)

COMMEMORATIVE DATE WALL ELEVATION (WALL A) SCALE 1:30



3 COMMEMORATIVE DATE WALL ELEVATION (WALL B)
SCALE 1:30

SCALE 1:30



Fort Needham

Interpretive elements title

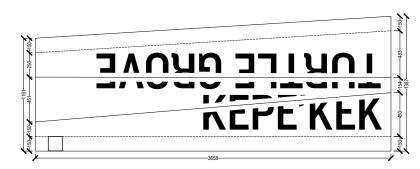
date June 13, 2017

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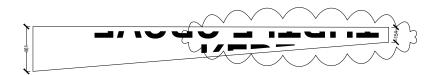
#### NOTES

title Commemorative wall Visible as the visitor approaches the monument from the entrance, the CORten retaining wall will be adorned with text marking the 100 years since the explosion in the form of a date. Above-grade elements will be perforated to ensure visibility through

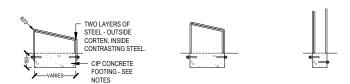
## 9. Marker Turtle Grove / Kepe'kek





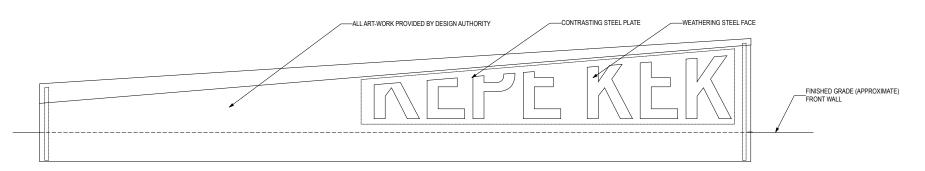






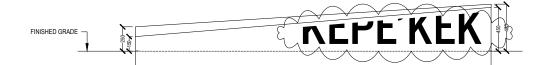
REFER TO LANDSCAPE SECTION FOR CONTRASTING LAYER CONSTRUCTION

TURTLE GROVE MARKER (TYPICAL CONSTRUCTION)



TURTLE GROVE MARKER (TYPICAL ELEVATION) SCALE 1:25





TURTLE GROVE MARKER (FRONT ELEVATION)



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NOTES

title

title Marker: Kepe'kek The loss of the Mi'kmaw community of Kepe'kek (Turtle Grove) will be commemorated in an element found in the landscape. Located at the top of the hill, oriented in the direction of community, the element will shed light on this community lost.