

PROJECT A BUILDING

NOVEMBER, 2017

PREPARED BY CONSULTANT Q

CONSTRUCTION
MANAGEMENT PLAN



Image: Concept Rendering Only

CONSULTANT **Q**

28 Space Street
Halifax Industrial Park
Halifax, Nova Scotia B8Z ____
www.consultantq.ca

t: 902-222-____
f: 902-223-____
c: 902-224-____
e: tw@consultantq.ca

Table of Contents

Section 1 – Introduction	6
Section 1.1 – Project Description and Objectives	6
Section 1.2 – Project Contact Information.....	6
Section 2 – Construction Schedule and Logistics.....	7
Section 2.1 – Schedule	7
Section 2.2 – Work within the Public Right-of-Way.....	7
Section 2.3 – Hours	8
Section 2.4 – General Notes	8
Section 3 – Relevant Regulations & Guidelines	8
Section 3.1 – Occupational Health & Safety Regulations	8
Section 3.2 – Municipal Regulations & Guidelines	8
Section 4 – Vehicle and Pedestrian Management.....	9
Section 4.1 – Vehicular Traffic Control	9
Section 4.1.1 – Payment of Applicable Fees	9
Section 4.1.2 – Vehicular Hazard Assessment.....	9
Section 4.1.3 – Traffic Control Plan Preparation & Monitoring	9
Section 4.1.4 – Notifications of Traffic Closures	9
Section 4.1.5 – Traffic Control Element Inspection & Maintenance	10
Section 4.1.6 – Changes to Traffic Control Plans.....	10
Section 4.1.7 – Emergency Vehicle Access.....	10
Section 4.1.8 – Traffic Control Plans & Haul Route Plan	10
Section 4.1.8.1 – Demolition Phase Traffic Control.....	10
Section 4.1.8.2 – Excavation Phase Traffic Control	10
Section 4.1.8.3 – Substructure Phase Traffic Control	11
Section 4.1.8.4 – Superstructure Phase Traffic Control.....	11
Section 4.1.9 – Haul Route Plan	12
Section 4.1.10 – Parking.....	12
Section 4.1.10.1 – Parking Stall Removal.....	12
Section 4.1.10.2 – Contractor Parking	12
Section 4.1.10.3 – Out-of-Service Parking Meter Fees.....	12
Section 4.1.10.4 – Temporary Parking.....	12
Section 4.1.10.5 – Net Parking Loss.....	13
Section 4.1.10.6 – Parking Signage.....	13
Section 4.1.10.7 – Parking Within Encroachment Areas	13
Section 4.2 – Pedestrian Management.....	13

Section 4.2.1 – Bus Stop Relocation	13
Section 4.2.2 – Payment of Applicable Fees	13
Section 4.2.3 – Pedestrian Hazard Assessment	14
Section 4.2.4 – Pedestrian Management Plan Preparation & Monitoring.....	14
Section 4.2.5 – Notifications of Pedestrian Closures	14
Section 4.2.6 – Pedestrian Management Plan Compliance	14
Section 4.2.7 – Changes to Pedestrian Management Plans.....	14
Section 4.2.8 – Pedestrian Management Plans.....	14
Section 4.2.8.1 – Demolition Phase Pedestrian Management	14
Section 4.2.8.2 – Excavation Phase Pedestrian Management.....	15
Section 4.2.8.3 – Substructure Phase Pedestrian Management	15
Section 4.2.8.4 – Superstructure Phase Pedestrian Management	15
Section 4.2.9 – Pre-Project Hazard Assessment.....	16
Section 4.2.10 – Visually Impaired Persons.....	16
Section 4.2.11 – Accessibility	16
Section 5 – Construction Site Protection and Hoarding	17
Section 5.1 – Site Protection and Hoarding Materials	17
Section 5.1.1 – Concrete F-Type Barriers	17
Section 5.1.2 – Fencing	17
Section 5.1.3 – Translucent Mesh	17
Section 5.1.4 – Hoarding	17
Section 5.1.5 – Covered Ways.....	18
Section 5.1.6 – Snow Removal	18
Section 5.1.7 – Site Lines.....	18
Section 5.1.8 – Emergency Access & Egress.....	18
Section 5.1.9 – View Ports.....	18
Section 5.1.10 – Reinstatement of Public Property	18
Section 5.2 – Site Protection Aesthetics	19
Section 5.3 – Signage	19
Section 5.3.1 – Project Management Plan Renderings	19
Section 5.3.2 – Pedestrian Detour Wayfinding	19
Section 6 – Lifting, Hoisting and Crane Operations	20
Section 6.1 – Navigation Canada & Transport Canada Regulatory Approvals.....	20
Section 6.2 – Operations above the Public Realm	20
Section 7 – On-Site Conditions	20
Section 7.1 – Site Safety and Security.....	20
Section 7.1.1 – Access & Egress Gates	21
Section 7.1.2 – Hazard Warning Signage.....	21

Section 7.1.3 – Gate Locking & Monitoring	21
Section 7.1.4 – Hoarding Signage.....	21
Section 7.1.5 – Inspection Reports.....	21
Section 7.1.6 – Dangerous Activities	21
Section 7.1.6.1 – Hot Works	21
Section 7.1.6.2 – On Site Smoking.....	21
Section 7.1.6.3 – Ignition Source Controls.....	21
Section 7.1.6.4 – Storage of Combustible Materials	22
Section 7.1.6.5 – Waste Management Practices	22
Section 7.1.7 – Emergency Contact Information	22
Section 7.1.8 – After-hours Lighting.....	22
Section 7.1.9 – Smoking Area.....	22
Section 7.1.10 – Fire Suppression System.....	22
Section 7.2 – Material Handling, Loading/Unloading, Delivery, and Vehicle Staging.....	23
Section 7.3 Environmental Controls	23
Section 7.3.1 – Street & Right-of-Way Cleaning	23
Section 7.3.2 – Stormwater Management and Runoff Pollution	23
Section 7.3.3 – Noise Pollution	23
Section 7.3.4 – Dust Pollution	24
Section 7.3.5 – Emissions Control	24
Section 7.3.6 – Rodent Control	24
Section 7.3.6.1 – Rodent Control Credentials.....	24
Section 7.3.6.2 – Rodent Control Management	24
Section 7.3.6.3 – Rodent Control Safety Considerations.....	25
Section 7.3.6.4 – Project Closure.....	25
Section 7.3.7 – Light Pollution.....	25
Section 8 – Community Engagement & Notification	26
Section 8.1 – Pre-CMP Community Engagement.....	26
Section 8.2 – Scheduled Community Notifications.....	26
Section 8.3 – Closure Notification Requirements	26
Section 9 – Permit & Notification Requirements	27
Section 10 – Regulation & Enforcement.....	27
Section 10.1 – Inspection & Monitoring	27
Section 11 – Summary	27
Appendices	
Appendix A – Demolition Phase CMP Drawings	
i) Encroachment Plan – Demolition Phase	
ii) Pedestrian Management Plan – Demolition Phase	

iii)	Haul Route Plan – All Phases
iv)	Rodent Control Plan – All Phases.....
Appendix B – Excavation Plan CMP Drawings.....	
i)	Encroachment Plan – Excavation Phase.....
ii)	Pedestrian Management Plan – Excavation Phase.....
iii)	Traffic Control Plan – Excavation Phase.....
iv)	Barrier Installation & Removal Plan – Excavation Phase
Appendix C – Substructure Phase CMP Drawings.....	
i)	Encroachment Plan – Substructure Phase
ii)	Pedestrian Management Plan – Substructure Phase
iii)	Traffic Control Plan – Substructure Phase
iv)	Barrier Removal Plan – Substructure Phase
v)	Services Installation Plan – Substructure Phase
vi)	Street Closure Plan – Substructure Phase
Appendix D – Superstructure Phase CMP Drawings.....	
i)	Encroachment Plan – Superstructure Phase.....
ii)	Pedestrian Management Plan – Superstructure Phase
iii)	Traffic Control Plan – Superstructure Phase.....
iv)	Barrier Installation Plan – Superstructure Phase
Appendix E – Pedestrian Management Plan Rendering	
i)	Pedestrian Management Plan Rendering – Demolition Phase
ii)	Pedestrian Management Plan Rendering – Excavation, Substructure, and Superstructure Phases
iii)	Pedestrian Management Plan Rendering – Services Installation
Appendix F – Wayfinding Signage.....	
i)	Wayfinding Sign – Demolition Phase – Fourth Street & Seventh Street.....
ii)	Wayfinding Sign – Demolition Phase – Second Street & Seventh Street.....
iii)	Wayfinding Sign – Demolition Phase – First Street & Second Street.....
iv)	Wayfinding Sign – Demolition Phase – First Street & Fourth Street.....
v)	Wayfinding Sign – Demolition Phase – Third Street & Fourth Street
vi)	Wayfinding Sign – Demolition Phase – North of Second Street & Third Street.....
vii)	Wayfinding Sign – Excavation, Substructure, & Superstructure Phases – First Street & Second Street ...
viii)	Wayfinding Sign – Excavation, Substructure, & Superstructure Phases – First Street & Fourth Street
ix)	Wayfinding Sign – Excavation, Substructure, & Superstructure Phases – Third Street & Fourth Street...
x)	Wayfinding Sign – Excavation, Substructure, & Superstructure Phases – North of Second Street & Third Street
xi)	Wayfinding Sign – Services Installation – First Street & Second Street.....
xii)	Wayfinding Sign – Services Installation – First Street & Fourth Street
xiii)	Wayfinding Sign – Services Installation – Third Street & Fourth Street
xiv)	Wayfinding Sign – Services Installation – North of Second Street & Third Street

Appendix G – Community Consultation Pamphlet	
Appendix H – Development Information Sign	
Appendix I – Draft Notification Letter.....	
Appendix J – Community Consultation Meeting Minutes	
i) Community Consultation Meeting Minutes Template.....	
ii) Sample Community Consultation Meeting Minutes.....	
Appendix K – Monthly Project Update Letter.....	
Appendix L – Rodent Control Specifications & Templates.....	
i) Weekly Record Log.....	
ii) Monthly Activity Log	
iii) Trap Setup Location Photo Library	
iv) Contrac Box Specifications.....	
v) Smart Scan Information Pamphlet.....	
vi) Bait Trap Specifications.....	
Appendix M – Construction Management Plan Change Request.....	
Appendix N – Construction Management Plan Inspection Sheet.....	
Appendix O – Tactile Pedestrian Launch Bar Information	
Appendix P – Pedestrian Management Plan Rendering & Wayfinding Sign Mounting Information.....	
Appendix Q – Hazard Assessment	

Appendices

Appendix A – Demolition Phase CMP Drawings

- i) Encroachment Plan – Demolition Phase
- ii) Pedestrian Management Plan – Demolition Phase
- iii) Haul Route Plan – All Phases
- iv) Rodent Control Plan – All Phases

Appendix B – Excavation Plan CMP Drawings

- i) **Encroachment Plan – Excavation Phase**
- ii) **Pedestrian Management Plan – Excavation Phase**
- iii) **Traffic Control Plan – Excavation Phase**
- iv) **Barrier Installation & Removal Plan – Excavation Phase**

Appendix C – Substructure Phase CMP Drawings

- i) Encroachment Plan – Substructure Phase
- ii) Pedestrian Management Plan – Substructure Phase
- iii) Traffic Control Plan – Substructure Phase
- iv) Barrier Removal Plan – Substructure Phase
- v) Services Installation Plan – Substructure Phase
- vi) Street Closure Plan – Substructure Phase

Appendix D – Superstructure Phase CMP Drawings

- i) Encroachment Plan – Superstructure Phase
- ii) Pedestrian Management Plan – Superstructure Phase
- iii) Traffic Control Plan – Superstructure Phase
- iv) Barrier Installation Plan – Superstructure Phase

Appendix E – Pedestrian Management Plan Rendering

- i) Pedestrian Management Plan Rendering – Demolition Phase
- ii) Pedestrian Management Plan Rendering – Excavation, Substructure, and Superstructure Phases
- iii) Pedestrian Management Plan Rendering – Services Installation

Appendix F – Wayfinding Signage

- i) Wayfinding Sign – Demolition Phase – Fourth Street & Seventh Street
- ii) Wayfinding Sign – Demolition Phase – Second Street & Seventh Street
- iii) Wayfinding Sign – Demolition Phase – First Street & Second Street
- iv) Wayfinding Sign – Demolition Phase – First Street & Fourth Street
- v) Wayfinding Sign – Demolition Phase – Third Street & Fourth Street
- vi) Wayfinding Sign – Demolition Phase – North of Second Street & Third Street
- vii) Wayfinding Sign – Excavation, Substructure, & Superstructure Phases – First Street & Second Street
- viii) Wayfinding Sign – Excavation, Substructure, & Superstructure Phases – First Street & Fourth Street
- ix) Wayfinding Sign – Excavation, Substructure, & Superstructure Phases – Third Street & Fourth Street
- x) Wayfinding Sign – Excavation, Substructure, & Superstructure Phases – North of Second Street & Third Street
- xi) Wayfinding Sign – Services Installation – First Street & Second Street
- xii) Wayfinding Sign – Services Installation – First Street & Fourth Street
- xiii) Wayfinding Sign – Services Installation – Third Street & Fourth Street
- xiv) Wayfinding Sign – Services Installation – North of Second Street & Third Street

Appendix G – Community Consultation Pamphlet

Appendix H – Development Information Sign

Appendix I – Draft Notification Letter

Appendix J – Community Consultation Meeting Minutes

- i) **Community Consultation Meeting Minutes Template**
- ii) **Sample Community Consultation Meeting Minutes**

Appendix K – Monthly Project Update Letter

Appendix L – Rodent Control Specifications & Templates

- i) Weekly Record Log
- ii) Monthly Activity Log
- iii) Trap Setup Location Photo Library
- iv) Contraception Box Specifications
- v) Smart Scan Information Pamphlet
- vi) Bait Trap Specifications

Appendix M – Construction Management Plan Change Request

Appendix N – Construction Management Plan Inspection Sheet

Appendix O – Tactile Pedestrian Launch Bar Information

Appendix P – Pedestrian Management Plan Rendering & Wayfinding Sign Mounting Information

Appendix Q – Hazard Assessment