

81 Lovett Lake Court
Halifax, NS

Prepared by Geoff MacLean, P.Eng.

Job No. 34816

CONSTRUCTION MANAGEMENT PLAN

0	AUG 2020	ISSUED FOR REVIEW
REVISION #	DATE	DESCRIPTION



36 Oland Crescent
Bayers Lake Business Park
Halifax, Nova Scotia B3S 1C6
www.sdmm.ca

t: 902 455-1537
f: 902-455-8479
c: 902-789-6374
e: gmaclean@sdmm.ca

Table of Contents

Section 1: Introduction	1
1.1: Project Description and Objectives	1
1.2: Project Contact Information	2
Section 2: Project Schedule and Logistics.....	2
2.1: Schedule	2
2.2: Key Dates	2
2.3: Hours of Work.....	2
Section 3 – Relevant Regulations & Guidelines	3
3.1: Occupational Health & Safety Regulations.....	3
3.2: Municipal Regulations & Guidelines.....	3
Section 4: Vehicle Management.....	3
4.1: Vehicular Traffic Control	3
4.2: Haul Route and Staging Areas	4
4.3: Vehicular Traffic Notifications	4
4.4: Emergency Vehicles	4
4.5: Parking	4
4.6: Bus Stops.....	4
4.7: Hazard Assessment.....	4
Section 5: Pedestrian Management	4
5.1: Pedestrian Protection	4
5.2: Pedestrian Safety	4
5.3: Pedestrian Traffic Notifications	4
5.4: Visually Impaired Persons.....	4
5.5: Accessibility	5
5.6: Hazard Assessment.....	5
Section 6: Encroachments & Disruptions	5
6.1: Demolition	5
6.2: Site Excavation.....	5
6.3: Site Services Connection.....	5
6.4: Construction Management Plan Element Inspection and Maintenance.....	6

6.5: Changes to the Construction Management Plan.....	6
Section 7: Environmental Factors.....	6
7.1: Damage to HRM Infrastructure	6
7.2: Protection of Trees	6
7.3: Line Painting and Temporary Crosswalks	6
7.4: Street and Right-of-Way Cleaning	6
7.5: Protection from Inclement Weather	6
7.6: Storm Water Management.....	6
7.7: Noise, Dust and Emission Control.....	7
7.8: Rodent Control	7
Section 8: Site Protection & Hoarding	7
8.1: Barriers, Fences, and Gates	7
8.2: Hoarding Aesthetics.....	7
8.3: Sight Lines	7
Section 9: Lifting, Hoisting, and Crane Operations	8
9.1: Crane Use Overview	8
9.2: Transport Canada and Nav Canada Regulations.....	8
Section 10: On-Site Safety and Security	8
10.1: Site Safety and Security Overview	8
10.2: Material Handling: Loading, Unloading, Delivery and Storage.....	8
10.3: Emergency Access & Egress.....	8
10.4: Security Site Lighting	9
10.5: Smoking Areas	9
10.6: Fire Suppression Systems	9
Section 11: Community Consultation & Notifications	9
11.1: Pre-CMP Community Consultation.....	9
11.2: Project Information and Contacts	9
11.3: Preconstruction Meeting.....	9
11.4: Construction Notification	9
Section 12: Summary	10
Appendix A – Traffic Control Plans – TCP	A
Appendix B – Haul Route Plan	B

Appendix C – HRM Tree Protection Detail.....	C
Appendix D – Project Information Board	D
Appendix E – Project Safety Signage	E
Appendix F – Project Signage Specifications	F
Appendix G – Hazard Assessment Form	G
Appendix H – Rodent Control Plan	H
Appendix I – CMP’s TCP & PMP Inspection Records	I
Appendix J – Community Consultation Records.....	J
Appendix K – HRM Infrastructure Reinstatement Sketch	K
Appendix L – Erosion & Sedimentation Control Plan	L

Section 1: Introduction

1.1: Project Description and Objectives

Metro Self-Storage are moving forward with their plans to develop a portion of their property situated between Chain Lake Drive and Lovett Lake Court in Bayers Lake Business Park. The building project will house a four-story commercial storage building complete with private parking and loading zones accessed from the planned driveway extending from Chain Lake Drive. The building is planned to be sited with significant set back (+120ft) from the street to fit into the sloping lands with significant earthwork as import is required to establish the founding levels for footings. The project will be built in 2 phases; first being the earthwork and service for the site, followed by construction of building.

Chain Lake Drive and Lovett Lake Court are municipal streets with gravel shoulders and open ditches. On Lovett Lake Court the project borders a commercial property to the northwest and an undeveloped land owned by Halifax Water the east with a large office building adjacent. On Chain Lake Drive opposite the four-lane divided street are two commercial plazas. All neighbouring properties will remain undisturbed throughout construction and all neighbours will be notified and updated on construction ahead of time.

For public safety the site will incorporate a perimeter construction fence with gate to separate the site from the public. The public street will remain open and free for public use during construction of the project. Vehicle and pedestrian traffic will be maintained throughout the project, with all construction operations being confined to private property. The exception to this will be during installation of new water and sewer services for the site; which will narrow traffic on Chain Lake Drive.

This CMP document is intended to be an evolving document to help guide the project team to mitigate impacts to the adjacent community before they arise and to address unforeseen issues. SDMM, together with the developer, contractor, and traffic control company, have prepared this Construction Management Plan (CMP) following HRM's CMP (2020) guidelines and administrative order (2018-005-ADM) in an effort to reduce potential negative impacts on the surrounding community, due to construction activities for this project.

The most up-to-date version of this document will be kept on-site at all times during construction. Should ownership or contracting services change throughout the course of this project, HRM will be notified immediately and new parties will be required to comply with the approved CMP in writing.

1.2: Project Contact Information

The project team for the proposed development consists of:

Role	Name	Contact	Address	Phone
Developer	Metro Self-Storage	Aaron Flynn	10 Lovett Lake Court, Halifax, NS B3S 1B8	(902) 593-0261
Project Manager	Avondale Construction Limited	Greg Parker	49 Hobson Lake Drive, Halifax, NS B3S 0E4	(902) 499-6074 24 Hour Emergency Contact
Site Contractor	Atlantic Road Construction and Paving	Greg MacDonald	6 Belmont Avenue, P.O. Box 89 Eastern Passage, NS B3G 1M7	(902) 830-6411
Traffic Control Company	Frontline Traffic Services	Phil Pruneau	6 Belmont Avenue, P.O. Box 89 Eastern Passage, NS B3G 1M7	(902) 818-5548
Rodent Control Company	Terminix Canada	Stephen Maclean	2257 Lawrencetown Road, Lawrencetown, NS B2Z 1L7	(902) 219-0020

Section 2: Project Schedule and Logistics

The following is a brief summary of anticipated major project milestones broken down by phase:

2.1: Schedule

Project Phase	Start Date		End Date	Time Period
Rodent Control Program	May 15, 2020	-	Jun 15, 2020	1 Month
Demolition	n/a	-	n/a	n/a
Excavation/mass earthwork	Aug 1, 2020	-	Sept 31, 2020	2 Months
Substructure	Sept 8, 2020	-	Oct 31, 2020	2 Months
Superstructure	Nov 1, 2020	-	Jul 31, 2021	9 Months
Site Flat Works	May 15, 2021	-	Jun 30, 2021	1.5 Months
Service Install	Aug 20, 2020	-	Sep 20, 2020	1 Month

2.2: Key Dates

- Take-over of encroachment: n/a
- Finish encroachment: n/a

An encroachment area is not required for this project.

2.3: Hours of Work

Work will generally take place during normal working hours as outlined in HRM's Noise By-Law and Traffic Control Manual Supplement; these are noted below.

- Monday to Friday: 7:00 a.m. – 9:30 p.m.
- Saturdays: 8:00 a.m. – 7:00 p.m.
- Sundays & Statutory Holidays: 9:00 a.m. – 7:00 p.m.
- Servicing Work: Same as Above

Although work is not expected to be required outside of the times listed above, if, for any reason, work is anticipated to be required outside of these hours, the contractor will apply to HRM for approval 5 business days (minimum) in

advance of such work and obtain approval prior to proceeding. It is noted that HRM's Noise By-Law cannot be altered without HRM council approval; work must adhere to the Noise By-Law.

Section 3 – Relevant Regulations & Guidelines

3.1: Occupational Health & Safety Regulations

This CMP shall be utilized in agreement with all applicable Provincial and Federal Occupational Health and Safety Regulations. At a minimum, construction activities must at all times meet the standards of:

- a) National Building Code of Canada, as adopted and modified under the Building Code Act and the Nova Scotia Building Code Regulations made under that Act;
- b) Nova Scotia Occupational Health and Safety Act, and the Nova Scotia Occupational Safety General Regulations made under that Act;
- c) The Transportation Association of Canada (TAC)'s Manual of Uniform Traffic Control Devices for Canada (MUTCDC); and
- d) Nova Scotia Temporary Workplace Traffic Control Manual (NSTCM).

3.2: Municipal Regulations & Guidelines

In addition to the Provincial and Federal standards referenced in Section 3.1, this CMP shall be utilized in agreement with and meet, at a minimum, the standards of all relevant municipal by-laws including, but not limited to, the following:

- e) S-300 Streets;
- f) E-200 Encroachments;
- g) B-201 Building;
- h) N-200 Noise;
- i) T-600 Trees;
- j) S-900 Controlled Access Streets;
- k) T-400 Truck Routes;
- l) W-101 Discharge into Public Sewers;
- m) B-600 Blasting; and
- n) HRM TCM Supplement.

Section 4: Vehicle Management

Prior to any construction activity, all temporary workplace traffic control devices and signage will be in place as per the Nova Scotia Temporary Workplace Traffic Control Manual (2018 or latest edition). The traffic control company will install the signage and ensure that they are maintained throughout the project. This project's Traffic Control Plans (TCPs) are listed in the Appendix.

4.1: Vehicular Traffic Control

A Traffic Control Plan (TCP) has been prepared by the traffic control company and is provided in the Appendix.

Throughout all phases of construction two-way vehicular traffic will be maintained. While services are installed a temporary lane closures will be required.

4.2: Haul Route and Staging Areas

The truck Haul Route Plan has been prepared by the traffic control company and is provided in the appendix. The selected route is intended to minimize traffic congestion and maximize pedestrian safety. During the excavation phase construction vehicles will enter and exit the site at the gate location which will be clearly marked for function.

Building materials and concrete delivery trucks will service the building from private property.

4.3: Vehicular Traffic Notifications

Should any traffic disruptions be required, notifications will be distributed to properties in the impacted area a minimum of five (5) days in advance of vehicular traffic closures.

4.4: Emergency Vehicles

In the event of unforeseen emergency situations, the site will remain accessible to emergency vehicles at all times.

4.5: Parking

Public on street parking will not be affected by this construction project. To minimize parking requirements in adjacent neighbourhoods, on-site workers will be required to park on the construction site and carpool when ever possible to minimize site vehicles accessing the project site.

4.6: Bus Stops

No bus stops exist adjacent to the project or are proposed to be affected.

4.7: Hazard Assessment

A vehicular and pedestrian hazard assessment is provided in the appendix. Any additional site hazards identified or encountered after work has commenced will be added to this list. All personnel on-site will be required to review this list and encouraged to identify additional potential hazards and hazard mitigation methods.

Section 5: Pedestrian Management

A Pedestrian Management Plan (PMP) is not required for this as site works are set back from HRM's ROW.

5.1: Pedestrian Protection

Sidewalk are not present in this area and with construction activities stationed far back from the HRM ROW, pedestrians protection is not anticipated for this project.

5.2: Pedestrian Safety

Pedestrian safety will be maintained by implementing appropriate signage. All navigation and safety signage indicating alternative sidewalks, and potential hazards will be inspected and maintained regularly.

5.3: Pedestrian Traffic Notifications

Notifications will be distributed to properties in the impacted area a minimum of five (5) days in advance of pedestrian traffic impacts.

5.4: Visually Impaired Persons

In keeping with Canadian National Institute for the Blind (CNIB) requirements and as outlined on their 'Clearing Our Path' website; various items will be incorporated into the pedestrian management signage and barriers. Such as, high visibility contrasting colours with appropriate font types (mix of upper and lower-case lettering), font sizes (between 16mm to 51mm) and sign colours (orange background with black lettering or white background with black lettering).

The contractor will use bright orange sawhorse barricades complete with bold-font signage to identify sidewalk termination points. Reflective tape will also be placed on the ends of fencing, hoarding, sawhorse barricades, and concrete barriers to help delineate pedestrian routes and disruptions. Signage and tape colours will vary but will comply with the colour/brightness contrast as outlined by the CNIB website; examples are black/white, orange/black or dark red/white combinations.

5.5: Accessibility

High visibility signage will be used to assist pedestrians to easily navigate around all blocked sidewalks. The alternate pedestrian route will be complete with temporary asphalt pedestrian ramps where a curb cut does not exist (see encroachment plan for details).

5.6: Hazard Assessment

A vehicular and pedestrian hazard assessment is provided in the appendix. Any additional site hazards identified or encountered after work has commenced will be added to this list. All personnel on-site will be required to review this list and encouraged to identify additional potential hazards and hazard mitigation methods.

Section 6: Encroachments & Disruptions

An encroachment is not anticipated for this project with deliveries, concrete operations and vehicle staging planned to remain on private property.

Should any utility or traffic disruptions be required, the contractor will first apply to HRM for approval, a minimum of five (5) business days in advance of such work and will then notify neighbours of these disruptions in a timely fashion.

6.1: Demolition

There are no existing buildings on the property, demolition stage is not applicable.

6.2: Site Excavation

This includes removal of topsoil and grubbing material as well as mass earthworks operations required to reach property foundation founding depths, import and/or removal of common site material and any rock breaking, if required, to the future foundation.

6.3: Site Services Connection

This includes installation of new water and sewer laterals to Chain Lake Drive. There are no known existing services for the site and as such service abandonments are not anticipated. The installs will require temporary workplace signage incorporated (refer to the Service Installation Traffic Control Plans (TCP) in the appendix). The target dates for this work are provided in the “Key Dates” section above with time of installations adhering to the Noise By-Laws noted above. The intent will be to complete this servicing work and reinstate the street as quickly as possible in order to minimize disruptions to the public. It is anticipated that weekend work may be required by Halifax Water for mainline tie-ins and abandonments.

Before scheduling site services connections, the contractor will notify all neighbouring properties, of the intended timeline for this work.

The contractor intends to reinstate the street cut during the season of work. It is noted that street cuts cannot be left gravel or open. Asphalt, concrete curb and sidewalk reinstatement must be completed within 72 hours of

disturbance and will be considered temporary if reinstated after October 31st or prior to May 1 in which case permanent reinstatement will be completed by June 15.

6.4: Construction Management Plan Element Inspection and Maintenance

Construction management plan elements will be inspected daily to ensure continued adherence to this CMP. Any deficiencies identified will be reinstated immediately. A CMP's TCP & PMP inspection report summary will be completed for the project, including information on what maintenance activities were conducted. This report must be kept on site at all times and be available to HRM upon request.

6.5: Changes to the Construction Management Plan

Any required changes or modifications to the approved CMP will be submitted to HRM for review and approval prior to implementation.

Section 7: Environmental Factors

7.1: Damage to HRM Infrastructure

It is anticipated that adjacent infrastructure will be impacted by excavation or other construction activities. However, while efforts will be made to avoid damage, it is anticipated that additional portions of existing infrastructure may become damaged during the construction process which would require repairs or replacement. Pending HRM's review prior to and after construction and subject to damage due to construction activities, the developer acknowledges that items may require to be fully replaced rather than repaired. The developer also acknowledges that any costs incurred to repair or replace this public infrastructure are the responsibility of the owner.

7.2: Protection of Trees

There are no public street trees anticipated to be removed as part of this project. It is noted that HRM street trees shall not be touched prior to approval and/or compensation agreements between the developer and HRM Urban Forestry are in place. Adjacent street trees are to be protected during construction in accordance with the HRM Tree Bylaw (T-600).

7.3: Line Painting and Temporary Crosswalks

Temporary line painting such as altered centreline or temporary crosswalk are not anticipated for this project.

7.4: Street and Right-of-Way Cleaning

The portion of public street adjacent to the project will be cleaned daily of any debris from trucks and silt, dirt, or rock that migrates beyond the encroachments. A sweeper truck will be utilized as required.

7.5: Protection from Inclement Weather

To protect the public from construction debris during inclement weather, the project site will be enclosed by fencing complete with hoarding and loose items throughout the project site will be secured when not in use.

7.6: Storm Water Management

During construction, nearby catch basins will be fitted with filter fabric to prevent debris from entering the storm system. Storm water collected inside the project site will be directed into a temporary sediment settling ponds to allow clean water to be pumped into the existing public storm water system in accordance with HRM By-law W-101 complete with appropriate fees to Halifax Water (HW).

7.7: Noise, Dust and Emission Control

Dust mitigation for this project will be achieved using rock pads for trucks exiting the site. A water truck and sweeper truck will also be utilized to help prevent dust from becoming airborne and, when required, calcium may need to be used to mitigate dust migration. Additionally, mesh on the inside of the fencing may help to contain any airborne dust inside the site.

Breaking of rock may occur for footing, foundation and to clean the surface of the rock face wall. Mesh will be used on the inside of all construction fencing to mitigate dust control.

All construction vehicles will be required to use the loading area for parking and idling to keep exhaust emissions within the construction zone. Vehicles will be staged so that idling will not occur for more than 3 minutes at a time, unless the vehicle motor is required to run to complete the work.

As indicated above, all work shall be completed in accordance with the HRM Noise By-Law.

7.8: Rodent Control

Rodent movement increases during construction activities. The owner has engaged a rodent control company, who has established a Rodent Control Plan (RCP) to help mitigate rodent movement prior to and during construction. The RCP applies to all project phases with the goal of preventing movement of rodents off-site to find safe refuge in adjacent areas. The RCP will consist of a baiting and monitoring program. Bait stations (traps) will be placed as outlined in the NPMA Pest Management Standards for Food Processing & Handling Facilities.

The RCP was engaged 1 month prior to the commencement of excavation to help to lower the number of active rodents in the project area. Bait stations will be positioned along existing buildings and edges of the project, secured in place using wooden stakes (for open sodded and dirt locations), weighted patio stones (behind walls and on paved areas), and zip-ties (fixed to fences) as per typical industry standards.

Refer to the appendix for a copy of the Rodent Control Plan.

Section 8: Site Protection & Hoarding

8.1: Barriers, Fences, and Gates

An encroachment is not required for this project however a construction fence will block the public from accessing the site with a 6.1m (20ft) wide gate stationed at the planned driveway to facilitate construction vehicle access.

All work and any traffic interruptions will be coordinated by the contractor who will notify HRM a minimum of five (5) business days before work is scheduled to begin.

8.2: Hoarding Aesthetics

The owner may place advertisements on the construction fencing.

8.3: Sight Lines

Fencing and signage will be installed such that vehicle sight lines are maintained around corners.

advance of such work and obtain approval prior to proceeding. It is noted that HRM's Noise By-Law cannot be altered without HRM council approval; work must adhere to the Noise By-Law.

Section 3 – Relevant Regulations & Guidelines

3.1: Occupational Health & Safety Regulations

This CMP shall be utilized in agreement with all applicable Provincial and Federal Occupational Health and Safety Regulations. At a minimum, construction activities must at all times meet the standards of:

- a) National Building Code of Canada, as adopted and modified under the Building Code Act and the Nova Scotia Building Code Regulations made under that Act;
- b) Nova Scotia Occupational Health and Safety Act, and the Nova Scotia Occupational Safety General Regulations made under that Act;
- c) The Transportation Association of Canada (TAC)'s Manual of Uniform Traffic Control Devices for Canada (MUTCDC); and
- d) Nova Scotia Temporary Workplace Traffic Control Manual (NSTCM).

3.2: Municipal Regulations & Guidelines

In addition to the Provincial and Federal standards referenced in Section 3.1, this CMP shall be utilized in agreement with and meet, at a minimum, the standards of all relevant municipal by-laws including, but not limited to, the following:

- e) S-300 Streets;
- f) E-200 Encroachments;
- g) B-201 Building;
- h) N-200 Noise;
- i) T-600 Trees;
- j) S-900 Controlled Access Streets;
- k) T-400 Truck Routes;
- l) W-101 Discharge into Public Sewers;
- m) B-600 Blasting; and
- n) HRM TCM Supplement.

Section 4: Vehicle Management

Prior to any construction activity, all temporary workplace traffic control devices and signage will be in place as per the Nova Scotia Temporary Workplace Traffic Control Manual (2018 or latest edition). The traffic control company will install the signage and ensure that they are maintained throughout the project. This project's Traffic Control Plans (TCPs) are listed in the Appendix.

4.1: Vehicular Traffic Control

A Traffic Control Plan (TCP) has been prepared by the traffic control company and is provided in the Appendix.

Throughout all phases of construction two-way vehicular traffic will be maintained. While services are installed a temporary lane closures will be required.

4.2: Haul Route and Staging Areas

The truck Haul Route Plan has been prepared by the traffic control company and is provided in the appendix. The selected route is intended to minimize traffic congestion and maximize pedestrian safety. During the excavation phase construction vehicles will enter and exit the site at the gate location which will be clearly marked for function.

Building materials and concrete delivery trucks will service the building from private property.

4.3: Vehicular Traffic Notifications

Should any traffic disruptions be required, notifications will be distributed to properties in the impacted area a minimum of five (5) days in advance of vehicular traffic closures.

4.4: Emergency Vehicles

In the event of unforeseen emergency situations, the site will remain accessible to emergency vehicles at all times.

4.5: Parking

Public on street parking will not be affected by this construction project. To minimize parking requirements in adjacent neighbourhoods, on-site workers will be required to park on the construction site and carpool when ever possible to minimize site vehicles accessing the project site.

4.6: Bus Stops

No bus stops exist adjacent to the project or are proposed to be affected.

4.7: Hazard Assessment

A vehicular and pedestrian hazard assessment is provided in the appendix. Any additional site hazards identified or encountered after work has commenced will be added to this list. All personnel on-site will be required to review this list and encouraged to identify additional potential hazards and hazard mitigation methods.

Section 5: Pedestrian Management

A Pedestrian Management Plan (PMP) is not required for this as site works are set back from HRM's ROW.

5.1: Pedestrian Protection

Sidewalk are not present in this area and with construction activities stationed far back from the HRM ROW, pedestrians protection is not anticipated for this project.

5.2: Pedestrian Safety

Pedestrian safety will be maintained by implementing appropriate signage. All navigation and safety signage indicating alternative sidewalks, and potential hazards will be inspected and maintained regularly.

5.3: Pedestrian Traffic Notifications

Notifications will be distributed to properties in the impacted area a minimum of five (5) days in advance of pedestrian traffic impacts.

5.4: Visually Impaired Persons

In keeping with Canadian National Institute for the Blind (CNIB) requirements and as outlined on their 'Clearing Our Path' website; various items will be incorporated into the pedestrian management signage and barriers. Such as, high visibility contrasting colours with appropriate font types (mix of upper and lower-case lettering), font sizes (between 16mm to 51mm) and sign colours (orange background with black lettering or white background with black lettering).

The contractor will use bright orange sawhorse barricades complete with bold-font signage to identify sidewalk termination points. Reflective tape will also be placed on the ends of fencing, hoarding, sawhorse barricades, and concrete barriers to help delineate pedestrian routes and disruptions. Signage and tape colours will vary but will comply with the colour/brightness contrast as outlined by the CNIB website; examples are black/white, orange/black or dark red/white combinations.

5.5: Accessibility

High visibility signage will be used to assist pedestrians to easily navigate around all blocked sidewalks. The alternate pedestrian route will be complete with temporary asphalt pedestrian ramps where a curb cut does not exist (see encroachment plan for details).

5.6: Hazard Assessment

A vehicular and pedestrian hazard assessment is provided in the appendix. Any additional site hazards identified or encountered after work has commenced will be added to this list. All personnel on-site will be required to review this list and encouraged to identify additional potential hazards and hazard mitigation methods.

Section 6: Encroachments & Disruptions

An encroachment is not anticipated for this project with deliveries, concrete operations and vehicle staging planned to remain on private property.

Should any utility or traffic disruptions be required, the contractor will first apply to HRM for approval, a minimum of five (5) business days in advance of such work and will then notify neighbours of these disruptions in a timely fashion.

6.1: Demolition

There are no existing buildings on the property, demolition stage is not applicable.

6.2: Site Excavation

This includes removal of topsoil and grubbing material as well as mass earthworks operations required to reach property foundation founding depths, import and/or removal of common site material and any rock breaking, if required, to the future foundation.

6.3: Site Services Connection

This includes installation of new water and sewer laterals to Chain Lake Drive. There are no known existing services for the site and as such service abandonments are not anticipated. The installs will require temporary workplace signage incorporated (refer to the Service Installation Traffic Control Plans (TCP) in the appendix). The target dates for this work are provided in the “Key Dates” section above with time of installations adhering to the Noise By-Laws noted above. The intent will be to complete this servicing work and reinstate the street as quickly as possible in order to minimize disruptions to the public. It is anticipated that weekend work may be required by Halifax Water for mainline tie-ins and abandonments.

Before scheduling site services connections, the contractor will notify all neighbouring properties, of the intended timeline for this work.

The contractor intends to reinstate the street cut during the season of work. It is noted that street cuts cannot be left gravel or open. Asphalt, concrete curb and sidewalk reinstatement must be completed within 72 hours of

disturbance and will be considered temporary if reinstated after October 31st or prior to May 1 in which case permanent reinstatement will be completed by June 15.

6.4: Construction Management Plan Element Inspection and Maintenance

Construction management plan elements will be inspected daily to ensure continued adherence to this CMP. Any deficiencies identified will be reinstated immediately. A CMP's TCP & PMP inspection report summary will be completed for the project, including information on what maintenance activities were conducted. This report must be kept on site at all times and be available to HRM upon request.

6.5: Changes to the Construction Management Plan

Any required changes or modifications to the approved CMP will be submitted to HRM for review and approval prior to implementation.

Section 7: Environmental Factors

7.1: Damage to HRM Infrastructure

It is anticipated that adjacent infrastructure will be impacted by excavation or other construction activities. However, while efforts will be made to avoid damage, it is anticipated that additional portions of existing infrastructure may become damaged during the construction process which would require repairs or replacement. Pending HRM's review prior to and after construction and subject to damage due to construction activities, the developer acknowledges that items may require to be fully replaced rather than repaired. The developer also acknowledges that any costs incurred to repair or replace this public infrastructure are the responsibility of the owner.

7.2: Protection of Trees

There are no public street trees anticipated to be removed as part of this project. It is noted that HRM street trees shall not be touched prior to approval and/or compensation agreements between the developer and HRM Urban Forestry are in place. Adjacent street trees are to be protected during construction in accordance with the HRM Tree Bylaw (T-600).

7.3: Line Painting and Temporary Crosswalks

Temporary line painting such as altered centreline or temporary crosswalk are not anticipated for this project.

7.4: Street and Right-of-Way Cleaning

The portion of public street adjacent to the project will be cleaned daily of any debris from trucks and silt, dirt, or rock that migrates beyond the encroachments. A sweeper truck will be utilized as required.

7.5: Protection from Inclement Weather

To protect the public from construction debris during inclement weather, the project site will be enclosed by fencing complete with hoarding and loose items throughout the project site will be secured when not in use.

7.6: Storm Water Management

During construction, nearby catch basins will be fitted with filter fabric to prevent debris from entering the storm system. Storm water collected inside the project site will be directed into a temporary sediment settling ponds to allow clean water to be pumped into the existing public storm water system in accordance with HRM By-law W-101 complete with appropriate fees to Halifax Water (HW).

7.7: Noise, Dust and Emission Control

Dust mitigation for this project will be achieved using rock pads for trucks exiting the site. A water truck and sweeper truck will also be utilized to help prevent dust from becoming airborne and, when required, calcium may need to be used to mitigate dust migration. Additionally, mesh on the inside of the fencing may help to contain any airborne dust inside the site.

Breaking of rock may occur for footing, foundation and to clean the surface of the rock face wall. Mesh will be used on the inside of all construction fencing to mitigate dust control.

All construction vehicles will be required to use the loading area for parking and idling to keep exhaust emissions within the construction zone. Vehicles will be staged so that idling will not occur for more than 3 minutes at a time, unless the vehicle motor is required to run to complete the work.

As indicated above, all work shall be completed in accordance with the HRM Noise By-Law.

7.8: Rodent Control

Rodent movement increases during construction activities. The owner has engaged a rodent control company, who has established a Rodent Control Plan (RCP) to help mitigate rodent movement prior to and during construction. The RCP applies to all project phases with the goal of preventing movement of rodents off-site to find safe refuge in adjacent areas. The RCP will consist of a baiting and monitoring program. Bait stations (traps) will be placed as outlined in the NPMA Pest Management Standards for Food Processing & Handling Facilities.

The RCP was engaged 1 month prior to the commencement of excavation to help to lower the number of active rodents in the project area. Bait stations will be positioned along existing buildings and edges of the project, secured in place using wooden stakes (for open sodded and dirt locations), weighted patio stones (behind walls and on paved areas), and zip-ties (fixed to fences) as per typical industry standards.

Refer to the appendix for a copy of the Rodent Control Plan.

Section 8: Site Protection & Hoarding

8.1: Barriers, Fences, and Gates

An encroachment is not required for this project however a construction fence will block the public from accessing the site with a 6.1m (20ft) wide gate stationed at the planned driveway to facilitate construction vehicle access.

All work and any traffic interruptions will be coordinated by the contractor who will notify HRM a minimum of five (5) business days before work is scheduled to begin.

8.2: Hoarding Aesthetics

The owner may place advertisements on the construction fencing.

8.3: Sight Lines

Fencing and signage will be installed such that vehicle sight lines are maintained around corners.

Section 9: Lifting, Hoisting, and Crane Operations

9.1: Crane Use Overview

This project will not incorporate a tower crane; mobile crane trucks will be brought to site to accommodate lifting and hosting materials to upper levels. Mobile cranes will be stationed within the project site and will be operated under the direct supervision of a licensed crane operator employed by the formwork contractor.

Road closures are not anticipated for this work.

9.2: Transport Canada and Nav Canada Regulations

There are two registered aerodromes in the Halifax region: Halifax International Airport and Canadian Forces Base Shearwater Airfield. According to Transport Canada regulations, the project site is outside of the lands to which regulations for these two aerodromes apply.

Section 10: On-Site Safety and Security

10.1: Site Safety and Security Overview

The contractor will adhere to all Occupational Health & Safety requirements throughout the completion of this project. At a minimum, the following safety protocols will be utilized to further enhance site safety and security:

- a) All workers will be required to have proof of up-to-date safety training;
- a) Personal protective equipment (PPE) will be required for all personnel on site;
- b) Adequate signage will be placed outside the hoarding, which will warn of hazards that may exist;
- c) Gates will be locked and the perimeter fencing secured to provide security against public access during off work hours and will be monitored during operation;
- d) Hoarding will clearly state “No Trespassing – Construction Personnel Only” & PPE requirements will be clearly identified (e.g., “Hard Hats and Safety Footwear Must Be Worn Beyond This Point”);
- e) Regular safety inspections will be conducted to ensure suitability of hoarding and other safety devices;
- f) Emergency contact information to be prominently posted as per the Project Information Board.

10.2: Material Handling: Loading, Unloading, Delivery and Storage

The contractor will adhere to the procedures stipulated in the Haul Route Plan for delivery of materials. Delivery vehicles will use the designated gates for entry and exit. Timing of deliveries will be coordinated to have the least possible negative impact on regular traffic. The staging and delivery area will be housed to the project site on private property and will serve as the site’s main laydown area for loading, unloading, concrete pumping and construction materials.

10.3: Emergency Access & Egress

The site will be accessible through a gate stationed at the planned driveway to facilitate construction vehicle access. This gate is the only locations that will receive equipment/materials during construction. This gate will be clearly marked for function. In cases of emergencies, on-site workers will exit the project site through this gate. This gate will remain unlocked at all times when workers are on site in case of emergency allowing unrestricted emergency response units access to the site. Gates will be locked and secured afterhours to provide security against public access during off work hour. Emergency contact information will be posted on project information boards surrounding the site, refer to the encroachment plan for details.

10.4: Security Site Lighting

Security site lighting is not anticipated for this project.

10.5: Smoking Areas

On site smoking areas will not be provided as this will be a smoke-free site.

10.6: Fire Suppression Systems

Access to existing fire suppression systems will be maintained throughout construction. The adjacent existing fire hydrant will remain outside the project area however will be protected from construction activities. These fire hydrants, along with any existing fire department connections (Siamese connections) will be accessible to firefighters throughout all phases of the project.

Proposed fire department connections are not available for fire department use until after the building's water supply lines have been installed, tested and commissioned by the water commission, similar with the fire suppression system. This system will not be active until after the building is near complete and the encroachment fencing has been removed.

Section 11: Community Consultation & Notifications

11.1: Pre-CMP Community Consultation

To encourage communication between project team and the surrounding community; pre-CMP consultation with neighbours is typically recommended; however, during the COVID-19 pandemic social gatherings have been limited. Replacing the typical town-hall community consultation meeting the developer has prepared construction notification brochure outlining the project, introducing the project contacts, sharing information about the project, dates, processes and anticipated impacts to the neighbours (traffic and pedestrian routes). This brochure can be found in the appendix. The construction notification brochure has been delivered to the properties neighbouring the construction site as well as HRM staff, a map indicating these properties has been included in the appendix with a copy of the brochure and confirmation of delivery.

11.2: Project Information and Contacts

To encourage communication between the project team and the public, contact information will be provided on Project Information Boards; these will be posted prominently around the project site on or near construction fencing. Refer to the appendix for a copy of the Project Information Board. Information on signage size and materials is outlined in the appendix.

11.3: Preconstruction Meeting

Prior to construction the developer, contractor and traffic control company will attend a pre-construction meeting with HRM staff to review the CMP document on site. HRM's engineering technician will confirm the date and time of this meeting; and may wish to waive the requirement.

11.4: Construction Notification

Approximately five (5) business days prior to the encroachment, an additional notification will be circulated to the neighbouring properties, notifying them that work is starting on site.

Section 12: Summary

This construction management plan was prepared with the goal to minimize negative impacts to the community, pedestrians, and traffic throughout the scope of this project. This plan will be used as a minimum standard and any further safety protection required or methods to provide a more positive environment will be used throughout construction work as necessary.

Should you have any questions or comments related to this document, please contact SDMM. For all construction-related inquiries, please contact the developer, contractor, or traffic control service provider.

Regards,

Servant, Dunbrack, McKenzie & MacDonald Ltd.

Geoff MacLean, P.Eng.

Project Engineer

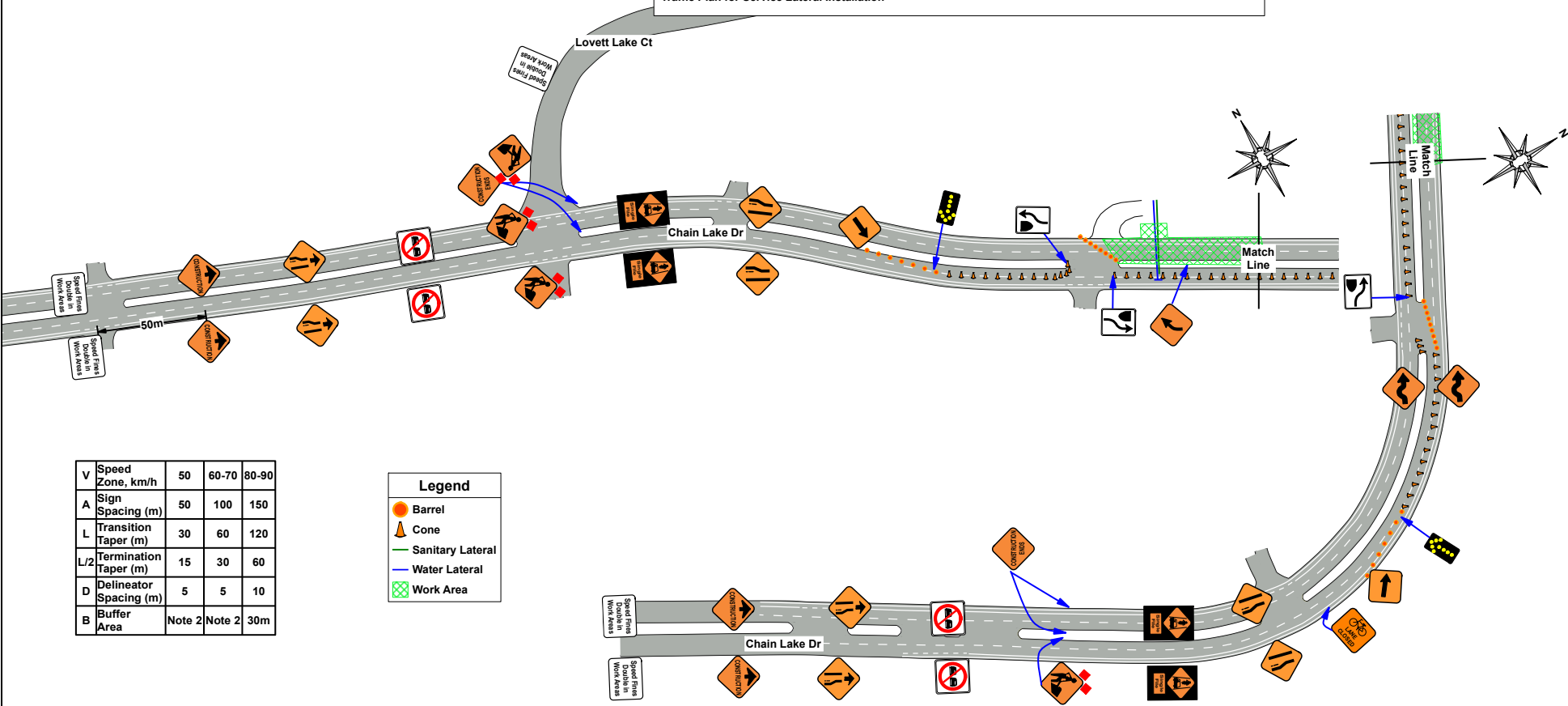
Z:\SDMM\34000-34999\34800\34816\CMP\34816 Lovett Lake (IFR)\Lovett Lake CMP - 34816 (IFR).docx

APPENDIX

Appendix A – Traffic Control Plans – TCP

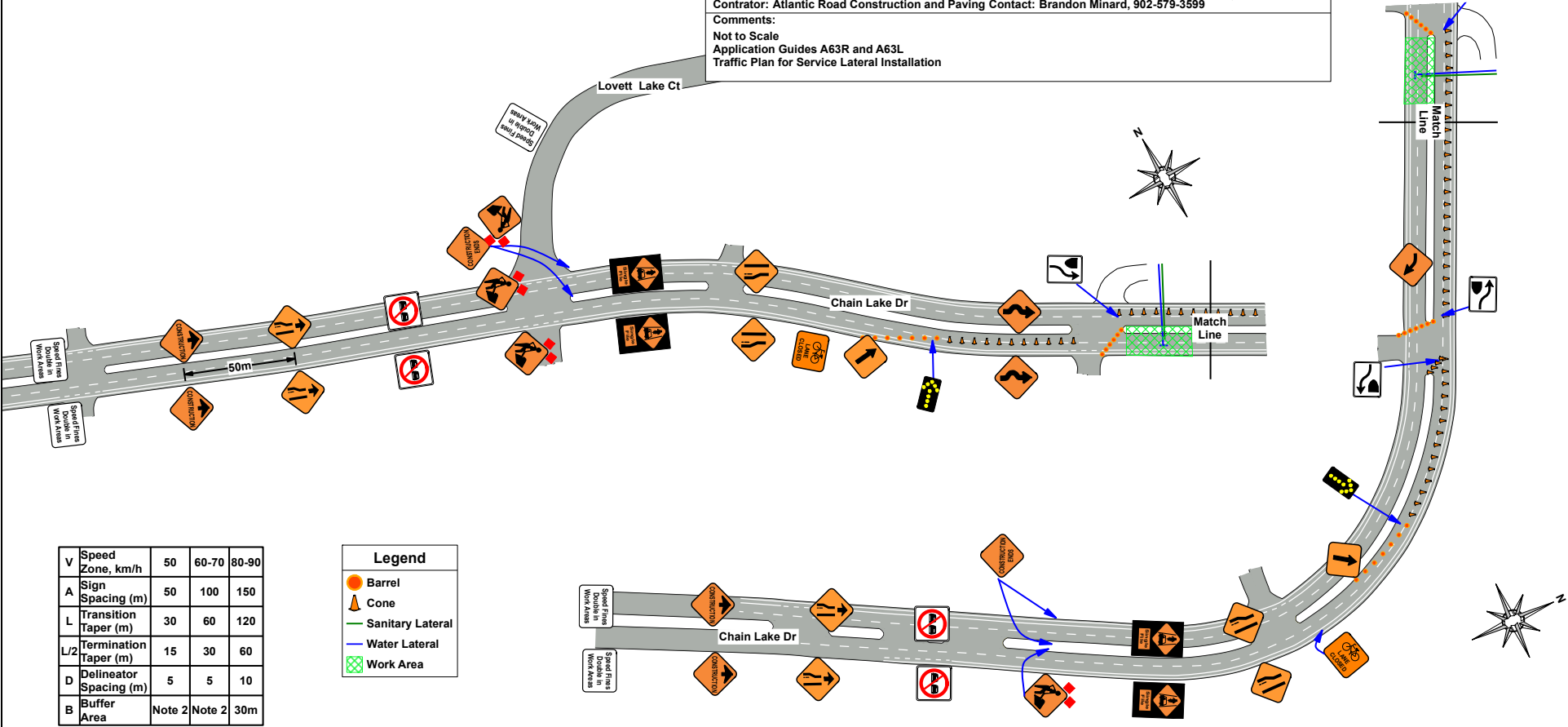
Traffic Plan 1

Date: 2020/08/06 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 81 Lovett Ct
Contrator: Atlantic Road Construction and Paving Contact: Brandon Minard, 902-579-3599
Comments:
Not to Scale
Application Guides A63R and A63L
Traffic Plan for Service Lateral Installation



Traffic Plan 2

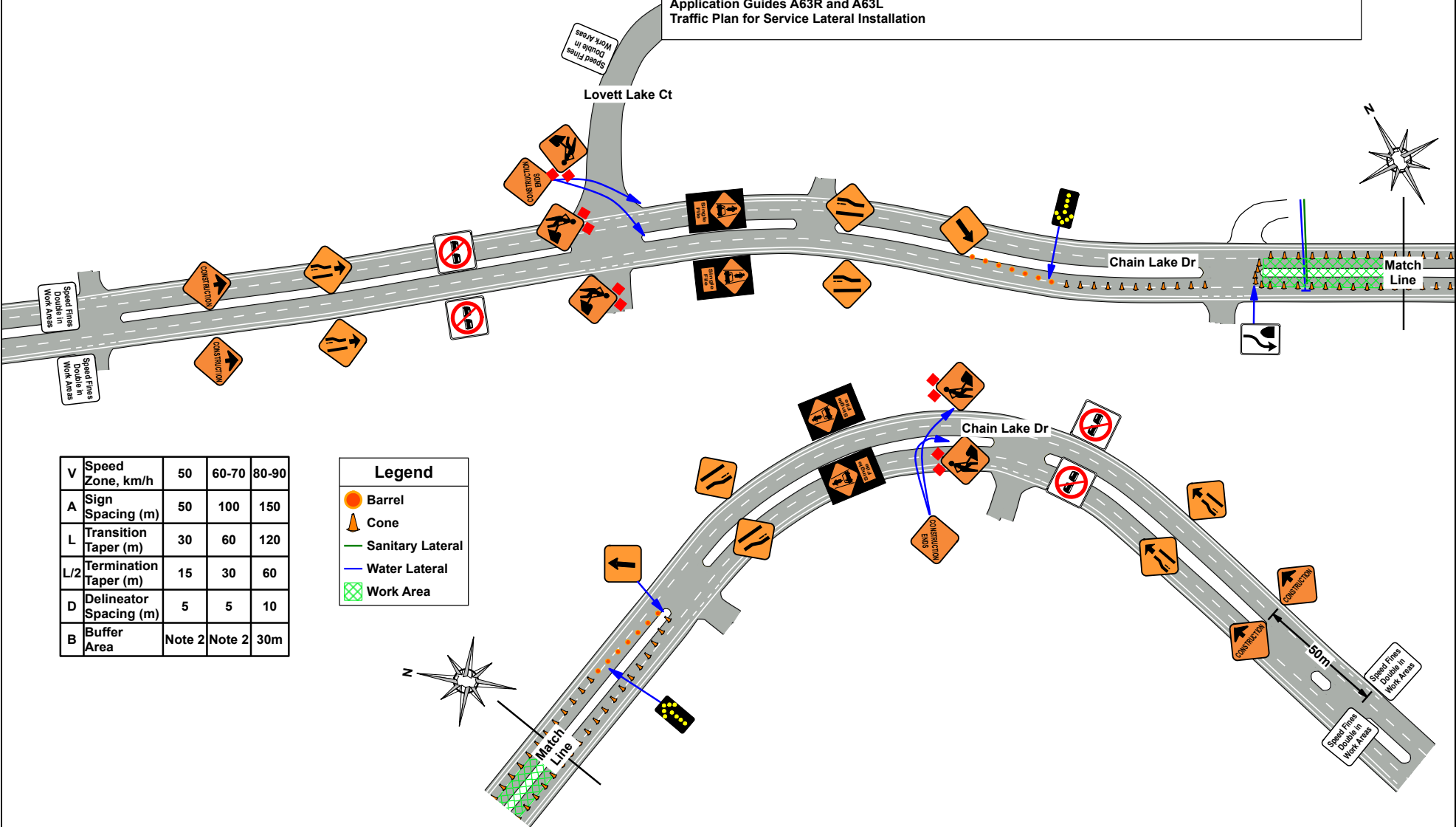
Date: 2020/08/06 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 81 Lovett Ct
Contrator: Atlantic Road Construction and Paving Contact: Brandon Minard, 902-579-3599
Comments:
Not to Scale
Application Guides A63R and A63L
Traffic Plan for Service Lateral Installation



Traffic Plan 3

Date: 2020/08/06 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 81 Lovett Ct
Contrator: Atlantic Road Construction and Paving Contact: Brandon Minard, 902-579-3599

Comments:
Not to Scale
Application Guides A63R and A63L
Traffic Plan for Service Lateral Installation



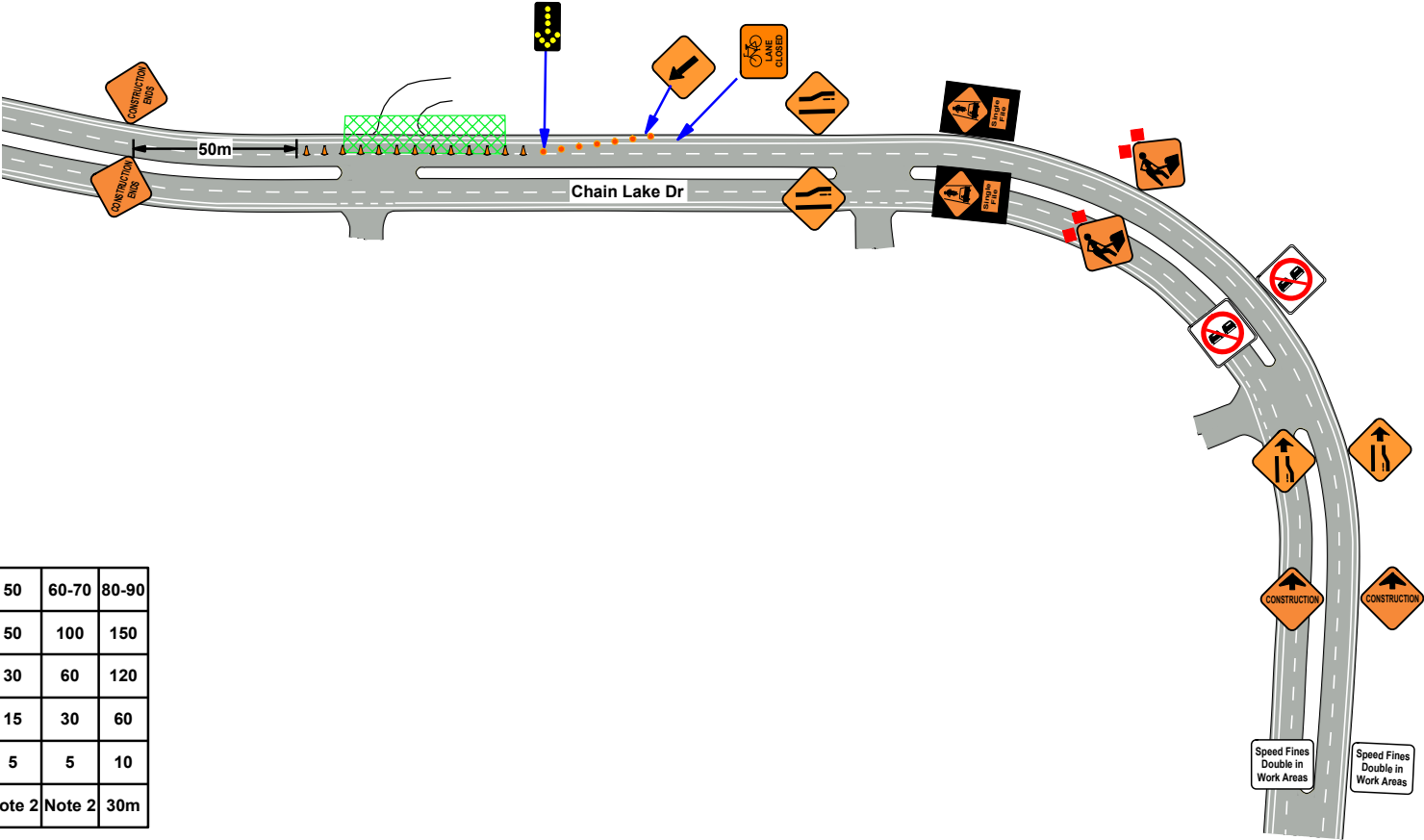
Traffic Plan 4

Date: 2020/08/06 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 81 Lovett Ct
Contrator: Atlantic Road Construction and Paving Contact: Brandon Minard, 902-579-3599

Comments:
Not to Scale
Application Guides A63R and A63L
Traffic Plan for paving driveway



Legend	
	Barrel
	Cone
	Work Area



V	Speed Zone, km/h	50	60-70	80-90
A	Sign Spacing (m)	50	100	150
L	Transition Taper (m)	30	60	120
L/2	Termination Taper (m)	15	30	60
D	Delineator Spacing (m)	5	5	10
B	Buffer Area	Note 2	Note 2	30m

Appendix B – Haul Route Plan



Haul Route Plan

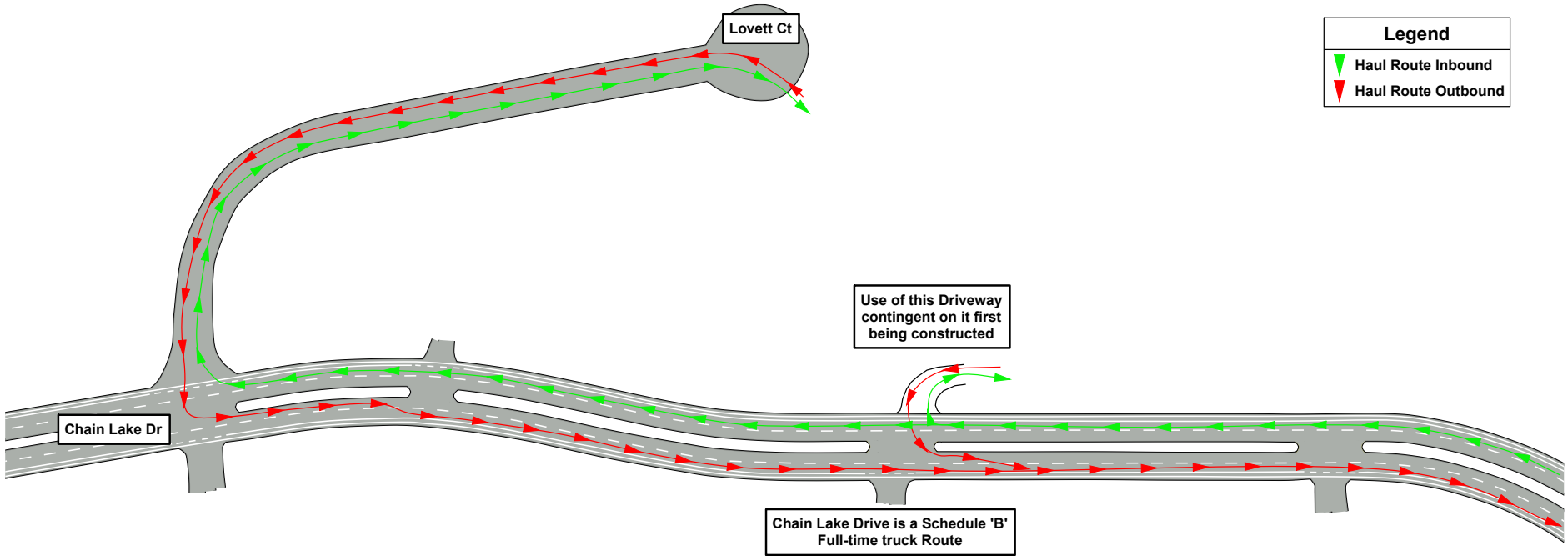
Date: 2020/08/06 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 81 Lovett Ct
Contrator: Atlantic Road Construction and Paving Contact: Brandon Minard, 902-579-3599

Comments:
Not to Scale
Haul Route Plan
No restrictions on Chain Lake Dr



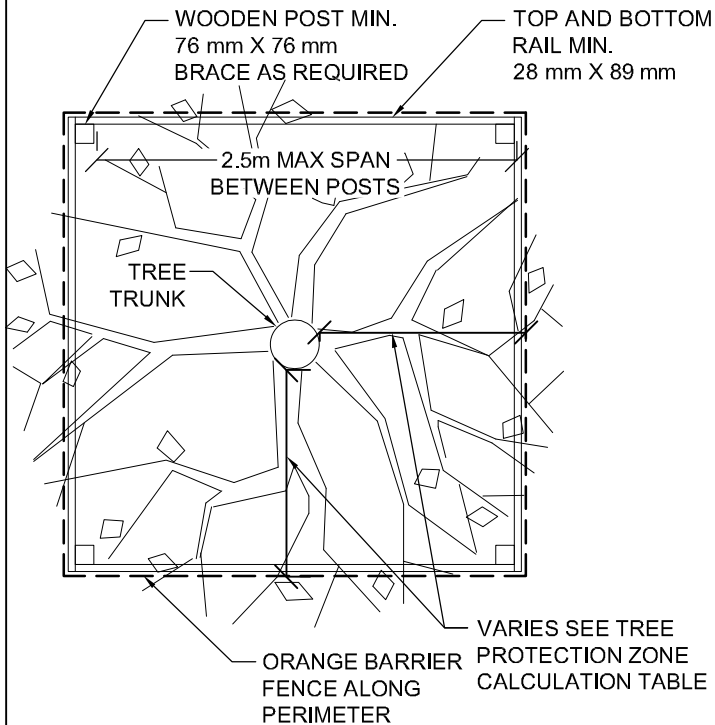
Legend

-  Haul Route Inbound
-  Haul Route Outbound

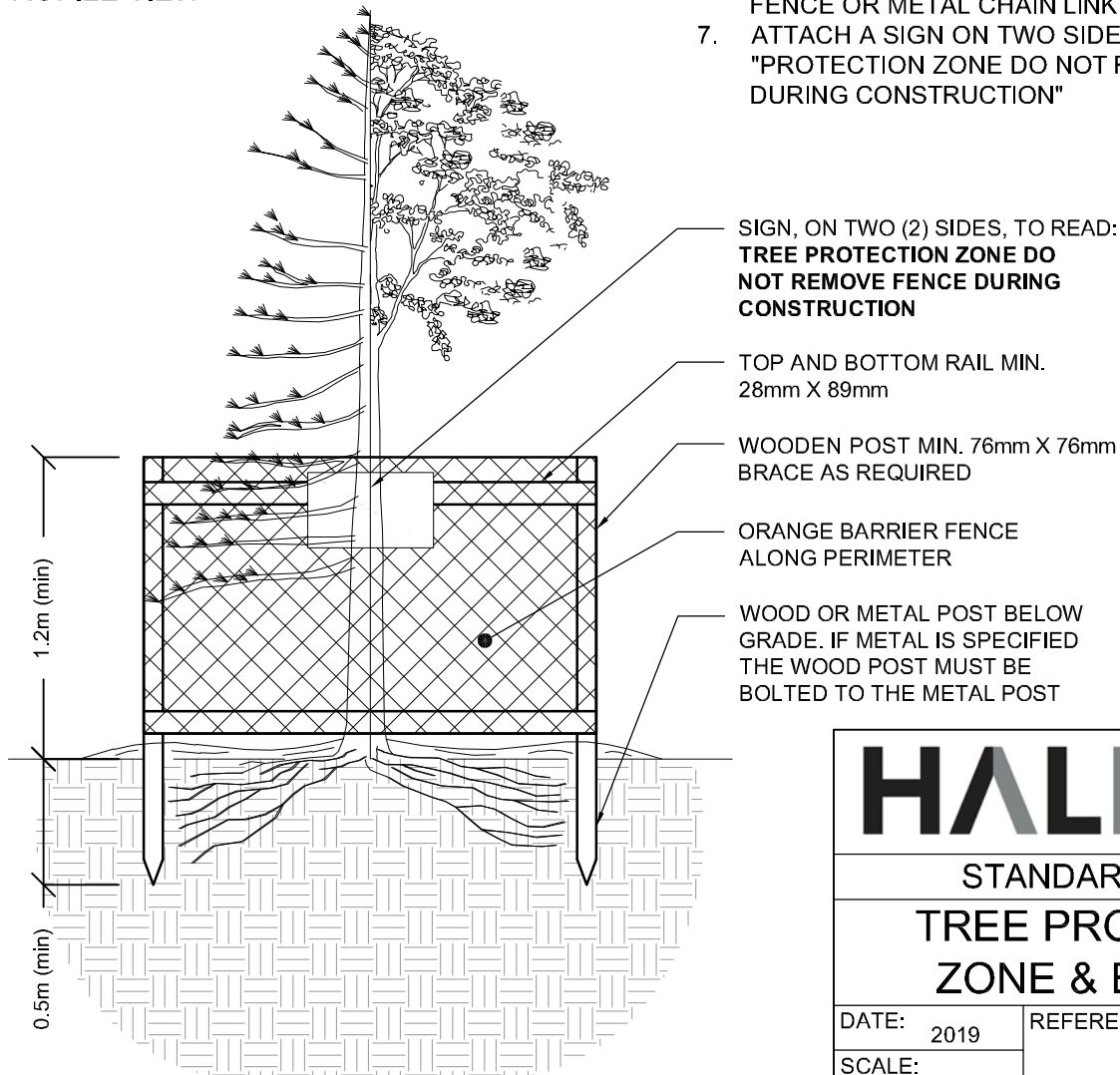


Appendix C – HRM Tree Protection Detail

PLAN VIEW



PROFILE VIEW



TREE PROTECTION ZONE CALCULATION TABLE

TRUNK DIAMETER (DBH)	MINIMUM PROTECTION DISTANCE REQUIRED (MEASURE FROM THE OUTSIDE EDGE OF TREE TRUNK)
10 CM & UNDER	1.2 METERS
11 - 30 CM	2.0 METERS
31 - 40 CM	3.4 METERS
41 - 50 CM	4.6 METERS
51 - 60 CM	6.0 METERS
61 - 70 CM	7.0 METERS
71 - 80 CM	8.0 METERS
>80 CM	9.0 METERS

NOTES:

1. WOOD POST: (MIN. 76mm WIDTH) INSTALLED TO A DEPTH OF 500mm (UNDERGROUND LOCATES REQUIRED)
2. TOP AND BOTTOM RAIL: (MIN. 38 X 89mm CONSTRUCTION, MAX. SPAN 2.5m), CROSS BRACING AS REQUIRED.
3. HEIGHT OF THE FENCE: MIN.1.2 METERS
4. NO GROUND DISTURBANCE WITHIN 1.2 METER OF THE TREE TRUNK (I.E. POST INSTALLATION)
5. POSTS SET BACK FROM SIDEWALK AND CURB: MIN 300mm
6. FENCE MATERIAL: MINIMUM ORANGE BARRIER FENCE OR METAL CHAIN LINK FENCE
7. ATTACH A SIGN ON TWO SIDES OF THE TREE "PROTECTION ZONE DO NOT REMOVE FENCE DURING CONSTRUCTION"

HALIFAX

STANDARD DETAIL

TREE PROTECTION
ZONE & BARRIER

DATE: 2019

REFERENCE:

APPROVED

SCALE:

NTS

FIG NO:

Appendix D – Project Information Board

May 2020 – December 2021

**PROPOSED METRO SELF STORAGE
6-STOREY COMMERCIAL BUILDING**



Owner:

Metro Self-Storage
10 Lovett lake Court, Halifax, NS, B3S1B8
Contact: Aaron Flynn – 902-593-0261

Project Manager:

Avondale Construction Limited
49 Hobson Lake Drive, Halifax, NS, B3S 0E4
Contact: Greg Parker – 902-499-6074 **24hr Contact**

Contractor:

Atlantic Road Construction and Paving
6 Belmont Avenue, P.O. Box 89, Eastern Passage, NS B3G 1M7
Contact: Greg MacDonald – 902-830-6411

Traffic Control:

Frontline Traffic Services
6 Belmont Avenue, P.O. Box 89, Eastern Passage, NS B3G 1M7
Contact: Phil Pruneau – 902-818-5548

Rodent Control Company:

Terminix Canada
2257 Lawrencetown Road, Lawrencetown, NS B2Z 1L7
Contact: Stephen Maclean – 902-219-0020

Appendix E – Project Safety Signage

Sample Safety Signage



Appendix F – Project Signage Specifications

Signage Specifications: Project Signage shall;

- Be constructed of weatherproof material (corrugated plastic)
- Have high visibility contrasting colours (dark letters on white background)
- Incorporate appropriate font types (mix of upper and lower-case lettering)
- Incorporate appropriate font sizes (16mm – 51mm) such that the signage is readable from a distance (16-20m)
- Size of signage will be poster size (600mm x 900mm) or larger; to allow community members to see and read the information from a distance
- Signage may incorporate plastic grommets positioned every 300mm around the perimeter of the signage to ensure a secure signage installation
- Signage will be installed/anchored to project fencing using plastic zip-ties
- Signage will be positioned along the project site as per the encroachment plan
- Signage shall not impede traffic of pedestrian sight lines
- **Signage shall be placed on site 10 days prior to the start of the noted construction activity to ensure the passing public has had adequate time to review, adjust their travel patterns, usage of streets and or can be considered 'informed'.**

Samples



Appendix G – Hazard Assessment Form

Project Name

Date: 1-May-20

Location: 205 Bedford Highway

VEHICULAR & PEDESTRIAN HAZARD ASSESSMENT

No.	Hazard:	Project Phase:	Vehicular Impacts:	Mitigation Methods:	Pedestrian Impacts:	Mitigation Methods:
1	Excavation	Excavation	Vehicles may enter project site and fall down excavation. Vehicle weight may surcharge excavation, causing excavation wall failure.	Place concrete barriers along travel ways. Concrete barriers and existing curbs to prevent vehicle entry. Close sidewalks & driveways adjacent to project site, moving vehicles farther away from excavation.	Pedestrians may enter project site and fall down excavation.	Place concrete barriers/rigid fencing around entire project site. Signage will be posted to direct pedestrians to opposite side of street.
2	Rock Blasting	Excavation	Blasted rock projectiles may strike vehicles.	Close sidewalks & driveways adjacent to site, moving vehicles farther away from blasted rock.	Blasted rock projectiles may strike pedestrians.	Install solid plywood hoarding along rigid fence adjacent to blasting zone.
3	Construction Waste	All Phases	Vehicles may be struck by construction waste.	The contractor shall keep the project site and surrounding areas clean and free of construction debris.	Pedestrians may be struck by construction waste.	The contractor shall keep the project site and surrounding areas clean and free of construction debris.
4	Vehicular & Pedestrian Activities	All Phases	Drivers and pedestrians may become confused or impatient with construction activities. Pedestrians may walk in unmarked crosswalks or in vehicular travel areas. Drivers may fail to obey traffic signage.	Vehicular and pedestrian signage will be posted prominently around the project site to facilitate pedestrian movement. Notification will be sent prior to all traffic interruptions.	Drivers and pedestrians may become confused or impatient with construction activities. Pedestrians may walk in unmarked crosswalks or in vehicular travel areas. Drivers may fail to obey traffic signage.	Vehicular and pedestrian signage will be posted prominently around the project site to facilitate pedestrian movement. Notification will be sent prior to all traffic interruptions.
5	Heavy Machinery Operation	All Phases	Heavy machinery or vehicles may break down or overturn, damaging other vehicles.	The contractor shall maintain safe distances between vehicles and heavy machinery on-site. Concrete barriers will be installed to separate construction vehicles from public traffic.	Heavy machinery or vehicles may break down or overturn, injuring pedestrians.	The contractor shall maintain safe distances between pedestrians, vehicles, and heavy machinery. Rigid fences will be installed to separate construction vehicles from pedestrians. Signage will direct pedestrians to opposite side of street.
			Heavy machinery or vehicles may overturn due to uneven terrain, damaging other vehicles.	The contractor shall maintain safe distances between vehicles and heavy machinery on-site and ensure travel routes are kept flat.	Heavy machinery or vehicles may overturn due to uneven terrain, injuring pedestrians. Pedestrians may walk on uneven terrain causing them to twist their ankles or fall.	The contractor shall maintain safe distances between pedestrians, vehicles, and heavy machinery and ensure travel routes are kept flat.
6	Construction Signage	All Phases	Construction signage may strike vehicular traffic.	Construction signage will be securely fixed to existing poles, temporary concrete sign bases, or rigid fences.	Pedestrians may walk into construction signage, including traffic signage, wayfinding signs, etc. may. Construction signage may strike pedestrians.	Signage will be angled in line with pedestrian routes and/or be placed at heights such that they do not pose a risk to pedestrians. Construction signage will be securely fixed to existing poles, temporary concrete sign bases, or rigid fences.
7	Dangerous Materials	All Phases	Flammable, explosive, & hot materials may damage vehicles if not properly maintained & stored.	The contractor will use and store dangerous materials properly as per manufacturers' specifications.	Flammable, explosive, & hot materials may injure pedestrians if not properly maintained & stored.	The contractor will use and store dangerous materials properly as per manufacturers' specifications.
8	Hoisting Operations	Superstructure	Precast concrete panels and other items hoisted may fall from heights and damage vehicles.	Proper hoisting and lifting techniques will be used to ensure that materials do not fall from heights. F-Type concrete barriers will be installed such that loads are never suspended above the public realm.	Precast concrete panels and other items hoisted may fall from heights and injure pedestrians.	Proper hoisting and lifting techniques will be used to ensure that materials do not fall from heights. Loads are never suspended above the public realm.
9	Reinstatement of Public Infrastructure & Service Installation	Superstructure	Heavy equipment and hot concrete used during public infrastructure reinstatement and service installation may cause damage to vehicles.	The contractor shall maintain safe distances between vehicles and heavy machinery on-site. Concrete barriers will be installed to separate construction vehicles from public traffic during public infrastructure reinstatement and service installation.	Heavy equipment and hot concrete used during public infrastructure reinstatement may injure pedestrians.	The contractor shall maintain safe distances between pedestrians, vehicles, and heavy machinery.
10	Fallen debris	Superstructure	Debris may fall from upper stories of the new building causing damage to vehicles.	F-Type concrete barriers will be installed such that a safe distance is maintained between the building envelope and vehicular traffic.	Debris may fall from upper stories of the new building injuring pedestrians.	Construction of upper building levels will be set back from the property line/rigid fencing, this separating pedestrians from potential fallen debris. Pedestrians will be directed to opposite side of street.

Appendix H – Rodent Control Plan

Protecta® EVO **AMBUSH**™

PATENT PENDING



THE MOST ADVANCED LOW-PROFILE BAIT STATION

PRODUCT FEATURES:

- ▶ Single locking mechanism for quick servicing
- ▶ Removable tray for easy cleaning
- ▶ Locking bait rods won't fall out during cleaning
- ▶ Dog & child tamper-resistant
- ▶ Can hold:
 - 4 - 1 oz. bait BLOX on 4 vertical rods
 - or -
 - T-Rex™ rat trap or Mini-Rex™ mouse trap
- ▶ Compatible with Sidekick® Load-N-Lock™ system



PRODUCT	CODE	DIMENSIONS (in)	CASE QTY
Protecta Evo Ambush	EA2000	8 1/2 x 10 1/4 x 4 1/4	6 Stations



More Than Meets The Eye

Madison, Wisconsin 53704 USA | Ph: (608) 241-0202 | Fax: (608) 241-9631

www.belllabs.com

ALL-WEATHER
BLOX™



CONTRAC®
ALL-WEATHER BLOX™

NET WT:
18 lbs (8.2 kg)

KILLS RATS, MICE & MEADOW VOLES*

Kills Warfarin Resistant Norway Rats

KEEP OUT OF REACH OF CHILDREN

CAUTION

See back panels for First Aid and additional precautionary statements.

ACTIVE INGREDIENT:

Bromadiolone (CAS #28772-56-7): 0.005%

OTHER INGREDIENTS†: 99.995%

†Contains Denatonium Benzoate TOTAL 100.000%

*Not permitted for use against the following species in California: Cotton rat, Eastern harvest mouse, Golden mouse, Polynesian rat, Meadow vole, White-throated woodrat, Southern plains woodrat, and Mexican woodrat.

FIRST AID

HAVE LABEL WITH YOU WHEN OBTAINING TREATMENT ADVICE

IF SWALLOWED:

- Call a poison control center, doctor, or 1-877-854-2494, or 1-800-858-7378** immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.

IF ON SKIN OR CLOTHING:

- Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes.
- Call a poison control center or doctor for treatment advice.

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15–20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center, doctor, or 1-877-854-2494 immediately for treatment advice.

** Also call this number for information on health concerns and pesticide incidents.

NOTE TO PHYSICIAN

If swallowed or absorbed through the skin, this material may reduce the clotting ability of the blood and cause bleeding. If ingested, administer Vitamin K₁ intramuscularly or orally. Repeat as necessary based on monitoring of prothrombin times.

TREATMENT FOR PET POISONING

If animal eats bait, call veterinarian at once.

NOTE TO VETERINARIAN

Anticoagulant Bromadiolone: For animals ingesting bait and/or showing poisoning signs (bleeding or elevated prothrombin times), give Vitamin K₁. If needed, check prothrombin times every 3 days until values return to normal (up to 30 days). In severe cases, blood transfusions may be needed.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

READ THIS LABEL: Read this entire label and follow all use directions and use precautions. Use only for sites, pests, and application methods described on this label.

IMPORTANT: Do not expose children, pets, or nontarget animals to rodenticides. To help to prevent exposure:

1. Store unused product out of reach of children and pets.
2. Apply bait in locations out of reach of children, pets, domestic animals and nontarget wildlife, or in tamper-resistant bait stations. These stations must be resistant to destruction by dogs and by children under six years of age, and must be used in a manner that prevents such children from reaching into bait compartments and obtaining bait. If bait can be shaken from bait stations when they are lifted, units must be secured or otherwise immobilized. Stronger bait stations are needed in areas open to hoofed livestock, raccoons, bears, or other potentially destructive animals, or in areas prone to vandalism.
3. Dispose of product container and unused, spoiled, or unconsumed bait as specified on this label.

Bait stations are mandatory for outdoor, above-ground use. Tamper-resistant bait stations must be used wherever children, pets, non-target mammals, or birds may have access to the bait placement location.

USE RESTRICTIONS: This product may only be used to control the following rodent pests in and around man-made structures: House mouse (*Mus musculus*), Norway rat (*Rattus norvegicus*), Roof rat (*Rattus rattus*), Cotton mouse (*Peromyscus gossypinus*), Cotton rat* (*Sigmodon hispidus*), Deer mouse (*Peromyscus maniculatus*), Eastern harvest mouse* (*Reithrodontomys humilis*), Golden mouse* (*Ochrotomys nuttalli*), Polynesian rat* (*Rattus exulans*), Meadow vole* (*Microtus pennsylvanicus*), White-footed mouse (*Peromyscus leucopus*), White-throated woodrat* (*Neotoma albigula*), Southern plains woodrat* (*Neotoma micropus*), and Mexican woodrat* (*Neotoma mexicana*). This product must be used in and within 100 feet of man-made structures constructed in a manner so as to be vulnerable to commensal rodent invasions and/or to harboring or attracting rodent infestations. Examples of such structures include homes and other permanent or temporary residences, food processing facilities, industrial and commercial buildings, trash receptacles, agricultural and public buildings, transport vehicles (ships, trains, aircraft), docks and port or terminal buildings and related structures around and associated with these sites. Fence and perimeter baiting, beyond 100 feet from a structure as defined above, is prohibited. This product must not be applied directly to food or feed crops.

CONTRAC®

ALL-WEATHER BLOX™

KILLS RATS, MICE, AND MEADOW VOLES*

Kills Warfarin Resistant Norway Rats

Norway rats, roof rats, and house mice may consume a lethal dose in one night's feeding with first dead rodents appearing four or five days after feeding begins.

ACTIVE INGREDIENT:

Bromadiolone (CAS #28772-56-7): 0.005%

OTHER INGREDIENTS: 99.995%

†Contains Denatonium Benzoate TOTAL 100.000%

KEEP OUT OF REACH OF CHILDREN CAUTION

See side panels for First Aid and additional precautionary statements.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store only in original container in a cool, dry place inaccessible to children and pets. Keep containers closed and away from other chemicals.

Pesticide Disposal: Wastes resulting from the use of this product may be placed in trash or delivered to an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container. [Plastic:] Offer for recycling or reconditioning; or puncture and dispose of in a sanitary landfill; or by incineration. In most states, burning is not allowed.

WARRANTY: To the extent consistent with applicable law, seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

NET WEIGHT: 18 lbs (8.2 kg)

EPA REG. NO. 12455-79

EPA EST. NO. 12455-WI-1

Manufactured by:

Bell
LABORATORIES, INC.
3699 Kinsman Blvd.
Madison, WI 53704 U.S.A.
www.belllabs.com
MADE IN USA

DIRECTIONS FOR USE (Continued from other panel)

Burrow baiting with Contrac All-Weather Blox is prohibited.

Do not place near or inside ventilation duct openings. Do not contaminate water, food, feedstuffs, food or feed handling equipment, or milk or meat handling equipment or surfaces that come into direct contact with food. When used in USDA inspected facilities, this product must be applied in tamper-resistant bait stations. Do not broadcast bait. Do not use this product in sewers.

Do not sell this product in individual containers holding less than 16 pounds of bait.

SELECTION OF TREATMENT AREAS: Determine areas where rats, mice, or meadow voles* will most likely find and consume the bait. Generally, these areas are along walls, by gnawed openings, in corners and concealed places, between floors and walls, or in locations where rats, mice, or meadow voles*, or their signs have been seen. Protect bait from rain and snow. Remove as much alternative food as possible.

APPLICATION DIRECTIONS:

RATS: Place 3 to 16 bait blocks (at intervals of 15 to 30 feet) per placement in infested areas. Maintain an uninterrupted supply of fresh bait for at least 10 days or until signs of rat activity cease.

MICE AND MEADOW VOLES*: Place 1 block per placement. Space placements at 8- to 12-foot intervals in infested areas. Two blocks may be needed at points of very high activity. Maintain an uninterrupted supply of fresh bait for at least 15 days or until signs of mouse or meadow vole* activity cease.

FOLLOW-UP: Replace contaminated or spoiled bait immediately. Wearing gloves, collect and dispose of all dead, exposed animals and leftover bait. To prevent reinfestation, limit sources of rodent food, water, and harborage as much as possible. If reinfestation does occur, repeat treatment. Where a continuous source of infestation is present, establish permanent bait stations and replenish as needed.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through the skin. Keep away from children, domestic animals and pets. Do not get in eyes, on skin or on clothing.

All handlers (including applicators) must wear: shoes plus socks, and waterproof gloves. Any person who retrieves carcasses or unused bait following application of this product must wear gloves.

User Safety Requirements

Follow manufacturer's instruction for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco or using the toilet and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish, birds and other wildlife. Dogs and predatory and scavenging mammals and birds might be poisoned if they feed upon animals that have eaten this bait. Do not apply this product directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff also may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash water or rinsate.

*Not permitted for use against the following species in California: Cotton rat, Eastern harvest mouse, Golden mouse, Polynesian rat, Meadow vole, White-throated woodrat, Southern plains woodrat, and Mexican woodrat.





DETEX[®] BLOX with LUMITRACK

SAFETY DATA SHEET

ACCORDING TO REGULATION: OSHA
Hazard Communication Standard 29 CFR 1910.1200

DATE OF ISSUE:
January 2016

PREPARED BY:
CAR

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: DETEX[®] BLOX with LUMITRACK

EPA Registration Number: NA

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Activity Monitoring - Ready to use

Uses advised against: Use only for the purpose described above

MANUFACTURER/SUPPLIER:

Bell Laboratories, Inc.

3699 Kinsman Blvd.

Madison, WI 53704, USA

Email: sds@belllabs.com

Phone: 608-241-0202

Medical or Vet Emergency: 877-854-2494 or 952-852-4636

Spill or Transportation Emergency: 800-424-9300 (CHEMTREC)

SECTION 2. HAZARDS IDENTIFICATION

Classification according to Regulation OSHA 1910.1200(d): Not classified

Signal Word: None

See Section 15 for information on FIFRA applicable safety, health, and environmental classifications.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	% By weight
Inert and Non-Hazardous Ingredients (Unlisted components are non-hazardous)	Proprietary	100.00%

SECTION 4. FIRST AID MEASURES

Description of first aid measures

Ingestion: Non-Toxic

Inhalation: Not applicable.

Eye contact: Non-Toxic

Skin contact: Non-Toxic

Most important symptoms and effects, both acute and delayed

Non-Toxic

Advice to physician: Non-Toxic

Advice to Veterinarian: Non-Toxic

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media: water, foam or inert gas.

Unsuitable Extinguishing Media: None known.

Special hazards arising from the mixture: High temperature decomposition or burning in air can result in the formation of toxic gases, which may include carbon monoxide.

Advice for firefighters: Wear protective clothing and self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: None. Non-Toxic

Environmental precautions: None. Non-Toxic

Methods and materials for containment and cleaning up

For Containment: None. Non-Toxic

For Cleaning Up: None. Non-Toxic

Reference to other sections: Refer to Sections 7, 8 & 13 for further details of personal precautions, personal protective equipment and disposal considerations.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling: Do not use near heat sources, open flame, or hot surfaces. Non-Toxic.

Conditions for safe storage, including any incompatibilities: None. Non-Toxic

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Established Limits

Component	OSHA	ACGIH	Other Limits
None	Not Established	Not Established	Not Established

Appropriate Engineering Controls: None. Non-Toxic

Occupational exposure limits: None. Non-Toxic

Personal Protective Equipment:

Respiratory protection: Not required

Eye protection: Not required

Skin protection: None. Non-Toxic

Hygiene recommendations: None. Non-Toxic

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance/Color:	Tan wax block
Odor:	Sweet grain-like
Odor Threshold:	Not applicable, odor not associated with a hazardous material.
pH:	Not applicable, is not dispersible with water.
Melting point:	Not applicable
Boiling point:	Not applicable
Flash point:	Not applicable, does not contain components classified as flammable.
Evaporation rate:	Not applicable, is a solid.
Flammability:	Not applicable, is a solid.
Upper/lower flammability or explosive limits:	Not applicable, does not contain components classified as flammable or explosive.
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable, is a solid
Relative Density:	1.13 g/mL @ 20°C
Solubility (water):	Not water soluble
Solubility (solvents):	Not applicable
Partition coefficient: n-octanol/water:	Not applicable
Auto-ignition temperature:	Not applicable, does not contain components classified as flammable.
Decomposition temperature:	Not applicable
Viscosity:	Not applicable, is not a liquid.

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not Applicable

Chemical stability: Not Applicable

Possibility of hazardous reactions: Refer to Hazardous decomposition products

Conditions to avoid: Avoid extreme temperatures (below 0°C or above 40°C).

Incompatible materials: Not Applicable

Hazardous decomposition products: Not Applicable

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity

LD50, oral (ingestion): Not Toxic

LD50, dermal (skin contact): Not Toxic

LC50, inhalation: Not Toxic

Skin corrosion/irritation: Not Toxic

Serious eye damage/Irritation: Not Toxic.

Respiratory or skin sensitization: Not Toxic

Germ cell mutagenicity: Not Toxic

Carcinogenicity: Not Toxic

Components	NTP	IARC	OSHA
None	NA	NA	NA

Reproductive Toxicity: Not Toxic
Aspiration Hazard: Not Toxic
Target Organ Effects: Not Toxic

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Effects: Not Toxic
Persistence and degradability: Not Toxic
Bioaccumulative potential: Not Toxic
Mobility in Soil: Not Toxic.
Other adverse effects: None.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal: Wastes resulting from the use of this product may be placed in trash, on-site, or at an approved waste disposal facility. Dispose of all wastes in accordance with all Federal, state and local regulations.

SECTION 14. TRANSPORT INFORMATION

UN number: Not regulated
UN proper shipping name: Not regulated
Transport hazard class(es): Not regulated
Packing group : Not regulated
Environmental Hazards
DOT Road/Rail: Not considered hazardous for transportation via road/rail.
DOT Maritime: Not considered hazardous for transportation by vessel.
DOT Air: Not considered hazardous for transportation by air.
Freight Classification: LTL Class 60
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable
Special precautions for user: None

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture: Not applicable
Signal Word: None
Precautionary Statements: None
Potential Health Effects:
Eye Contact: May cause irritation
Skin Contact: Non-irritating to the skin
Ingestion: Not harmful if swallowed

TSCA: All components are listed on the TSCA Inventory or are not subject to TSCA requirements
CERCLA/SARA 313: Not Toxic
CERCLA/SARA 302: Not Toxic

SECTION 16. OTHER INFORMATION

For additional information, please contact the manufacturer noted in Section 1.

NFPA	Health: 0 (Not Toxic)	Flammability: 1 (slight)	Reactivity: 0 (stable)	Specific Hazard: None
HMIS	Health: 0 (Not Toxic)	Flammability: 1 (slight)	Reactivity: 0 (minimal)	Protective Equipment: None

Disclaimer: The information provided in this Safety Data Sheet has been obtained from sources believed to be reliable. Bell Laboratories, Inc. provides no warranties; either expressed or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your consideration and investigation. The user is responsible to ensure that they have all current data, including the approved product label, relevant to their particular use.

Appendix I – CMP’s TCP & PMP Inspection Records

Project: _____ Location: _____ Phase: _____ Date: _____ Inspector: _____

CONSTRUCTION MANAGEMENT PLAN - INSPECTION CHECKLIST

[illegible]

Appendix J – Community Consultation Records

COMMUNITY CONSULTATION MAP OVERVIEW



Notification Letter

Date: *****

Metro Self-Storage – Building Construction Information Meeting

Dear Neighbour,

As you may be aware, we are planning a commercial building construction project at 81 Lovett Lake.

We have scheduled a meeting for those interested in receiving more information about our construction plans, practices, schedule and to go over any questions you may have regarding construction of our new project.

This meeting is scheduled for _____ on _____ 2020 in the meeting room of _____ located at _____.

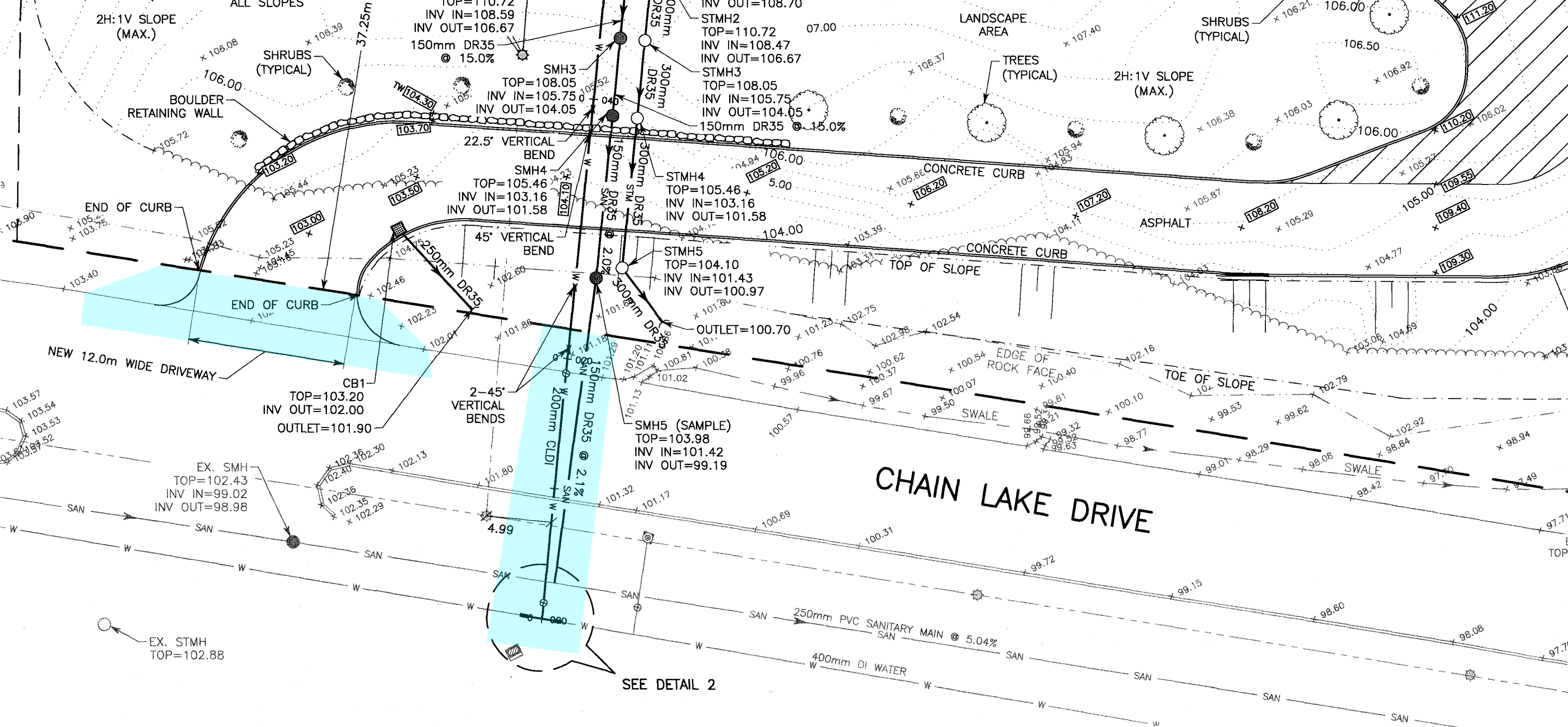
Please let us know by email if you plan to attend so we can make sure to have enough chairs.

Thank you.

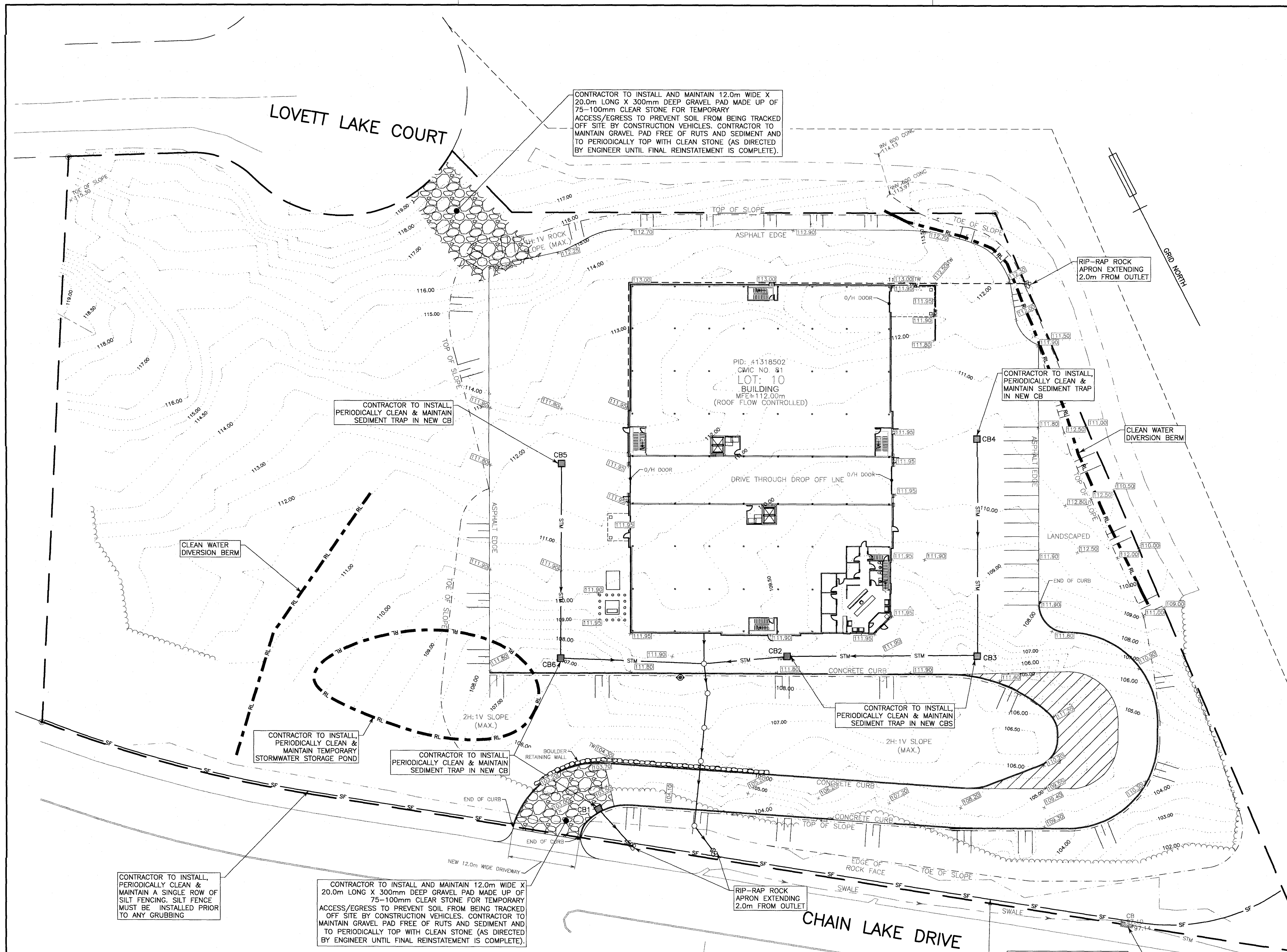
(Client)



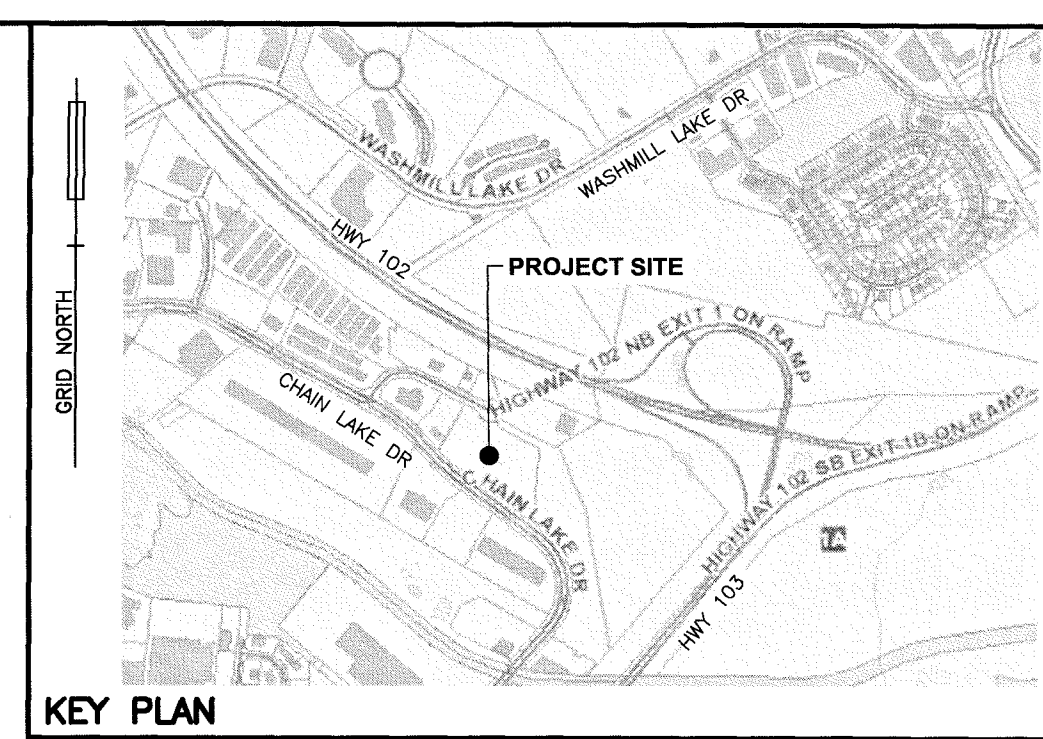
Appendix K – HRM Infrastructure Reinstatement Sketch



Appendix L – Erosion & Sedimentation Control Plan



- NOTES:**
1. CONTRACTOR MUST PREVENT EROSION OR SILTATION OF SURFACE RUNOFF FROM LEAVING THE CONSTRUCTION SITE THROUGH THE USE OF EROSION AND SEDIMENTATION CONTROLS (SEE NSE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES), EXCAVATION Dewatering TO MUNICIPAL STORM SEWER SYSTEMS MUST ADHERE TO HRM BY-LAW W-101.
 2. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH NOVA SCOTIA ENVIRONMENTAL REGULATIONS, HRM BY-LAWS AND HRM MUNICIPAL SERVICE SYSTEMS "RED BOOK" (LATEST EDITION). THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL ON THE SITE. DUST SHALL BE PREVENTED THROUGH THE APPLICATION OF WATER TO EXPOSED DRY SOILS TO PREVENT DUST FROM BEING GENERATED BEYOND PROVINCIAL AND MUNICIPAL REGULATIONS OR BYLAWS OR FROM MIGRATING FROM THE CONSTRUCTION SITE.
 3. THE CONTRACTOR SHALL HAVE A PERSON VISIT THE SITE DAILY WHO HAS SUCCESSFULLY COMPLETED THE EROSION AND SEDIMENT CONTROL COURSE PROVIDED BY THE N.S. TRANSPORTATION AND INFRASTRUCTURE RENEWAL TO REVIEW THE EROSION AND SEDIMENT CONTROLS.
 4. THE LIMITS OF DISTURBANCE ARE IDENTIFIED ON THIS DRAWING. ANY ACTIVITY BY THE CONTRACTOR BEYOND THESE LIMITS REQUIRES WRITTEN AUTHORIZATION FROM THE CONSULTANT AND HRM.
 5. CONTRACTOR TO CARRY OUT ALL WORK IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL, PROVINCIAL AND FEDERAL REGULATIONS, INCLUDING, BUT NOT LIMITED TO, THE OCCUPATIONAL HEALTH AND SAFETY ACT FOR THE PROVINCE OF NOVA SCOTIA.
 6. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF NOVA SCOTIA ENVIRONMENT.
 7. CONTRACTOR TO OBTAIN PERMIT APPROVALS AND PERMITS FROM HALIFAX REGIONAL MUNICIPALITY, AND NOVA SCOTIA ENVIRONMENT (NSE) PRIOR TO CONSTRUCTION. CONTRACTOR TO COMPLY WITH ALL PERMIT REQUIREMENTS AND CONDITIONS.
 8. PREVENTION OF ERODED SOILS AND SEDIMENT FROM LEAVING THE CONSTRUCTION SITE IS MANDATORY.
 9. CONTRACTOR MUST PREVENT THE SILTATION OF WATERCOURSES OR STORM SEWERS ADJACENT TO CONSTRUCTION. SILT LADEN RUNOFF MUST NOT BE PERMITTED TO EXIT THE SITE. MEASURES INDICATED ON THESE DRAWINGS ARE PROVIDED AS A GENERAL GUIDE IN AN EFFORT TO CONTROL EROSION AND SEDIMENTATION AND SHALL BY NO MEANS LIMIT ENVIRONMENTAL CONTROL MEASURES TO BE IMPLEMENTED. PROPER USE, INSTALLATION AND MAINTENANCE OF SUCH MEASURES ARE OUTLINED IN THE NSE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES. THE CONTRACTOR MUST INSPECT EROSION AND SEDIMENTATION CONTROLS FOR PROPER INSTALLATION AND MAINTENANCE ON A DAILY BASIS.
 10. ALL DISTURBED AREAS, EXCLUDING ROCK OR AREAS FINISHED WITH ASPHALT, CONCRETE, GRAVEL, OR SOIL MUST BE REINSTATED WITH HYDROSEED $\frac{1}{4}$ 100mm THICK STRAW BLANKET. TEMPORARY STRAW COVER OVER EXPOSED SOILS MUST BE COMPLETED SO THAT EXPOSED SOILS DO NOT REMAIN EXPOSED LONGER THAN 5 DAYS, OR 1 DAY BEFORE SIGNIFICANT RAINFALL EVENT.
 11. NO BURNING IS PERMITTED ON SITE. ALL BRUSH OR TREES DESTROYED FOR BURNING SHALL BE CHIPPED AND USED ON SITE FOR EROSION CONTROL AS DIRECTED.
 12. CHAIN LAKE DRIVE IS TO BE KEPT FREE FROM SOILS & SEDIMENT VIA DAILY CLEANUP.
 13. STOCKPILES OF TOPSOIL ARE NOT PERMITTED UNLESS COVERED WITH 10 MIL POLYETHYLENE TO PREVENT EROSION AND MOISTURE INFILTRATION AND PROTECTED FROM THE WIND. A DOUBLE PERIMETER OF SILT FENCE MUST BE INSTALLED/MAINTAINED AROUND BASE OF PILE.
 14. A STOCKPILE OF SILT FENCE, STRAW BALES AND 25mm CLEAN STONE MUST BE MAINTAINED ON THE CONSTRUCTION SITE FOR EROSION AND SEDIMENTATION CONTROL AT ALL TIMES (MIN. 80 METERS OF SILT FENCING, 40 STRAW BALES & 20 CUBIC METERS OF 25mm CLEAR STONE).
 15. CONTRACTOR SHALL PROVIDE DAILY MONITORING OF EROSION/SEDIMENT CONTROLS EVEN WHEN THE CONSTRUCTION SITE IS IDLE. PARTICULAR ATTENTION IS REQUIRED TO MAINTAIN OR UPGRADE MEASURES ON DAYS PRIOR TO FORECASTED RAIN EVENTS. RESOURCES MUST ALWAYS BE MADE AVAILABLE EVEN IF CONSTRUCTION ACTIVITIES NEED TO BE INTERRUPTED.
 16. ONSITE STORMWATER INFRASTRUCTURE SHALL NOT BE COMMISSIONED UNTIL FINAL SULPHIDE BEARING MATERIAL ENCAPSULATION IS COMPLETE. CONTRACTOR MUST INSTALL SILT BAGS IN EACH OF THE NEW CATCH BASINS AND MAINTAIN UNTIL FINAL REINSTATEMENT IS COMPLETE.



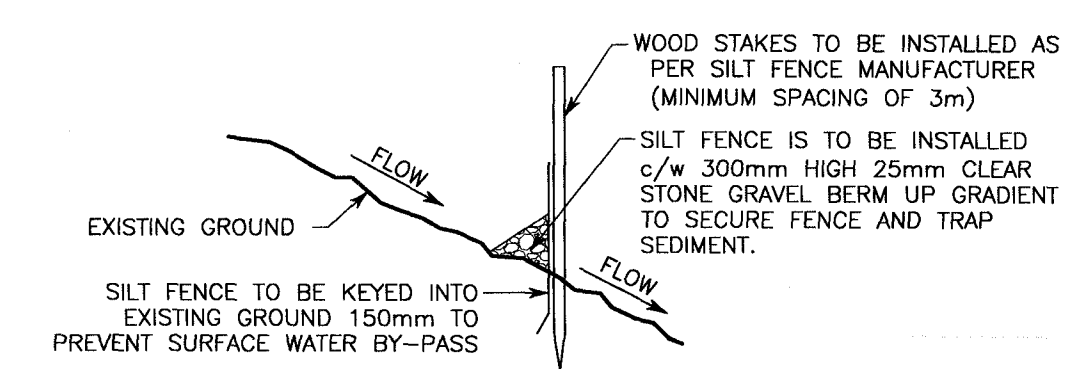
LEGEND		
EXISTING		PROPOSED
25.0	CONTOUR LINE	25.0
25.0	CATCH BASIN/PIT	25.0
25.0	CULVERT	25.0
25.0	ROCK LINING/DAM	25.0
25.0	ROCK WALL/RETAINING WALL	25.0
25.0	POWER POLE & ANCHOR/LIGHT STANDARD	25.0
25.0	TREE	25.0
25.0	STREET SIGN/PARKING METER	25.0
25.0	ELEVATION/GRADE	25.0
25.0	DRAINAGE/SWALE FLOW DIRECTION	25.0
25.0	STORM MANHOLE & PIPE	25.0
25.0	100YR. FLOOD LIMIT	25.0
25.0	SILT FENCE	25.0
25.0	PROPERTY LINE/BOUNDARY	25.0
25.0	FENCE	25.0
25.0	BUILDING	25.0
25.0	TOP OF SLOPE	25.0
25.0	TOE OF SLOPE	25.0
25.0	TREELINE	25.0
25.0	LIMITS OF DISTURBANCE	25.0
25.0	GRAVEL PAD (100-150mm STONE)	25.0
25.0	DIVERSION BERM	25.0

1	20/06/23	REVISED BUILDING & SERVICES	gm
0	20/05/07	ISSUED FOR REVIEW	
No.	YY/MM/DD	Revision Description	Appr'd

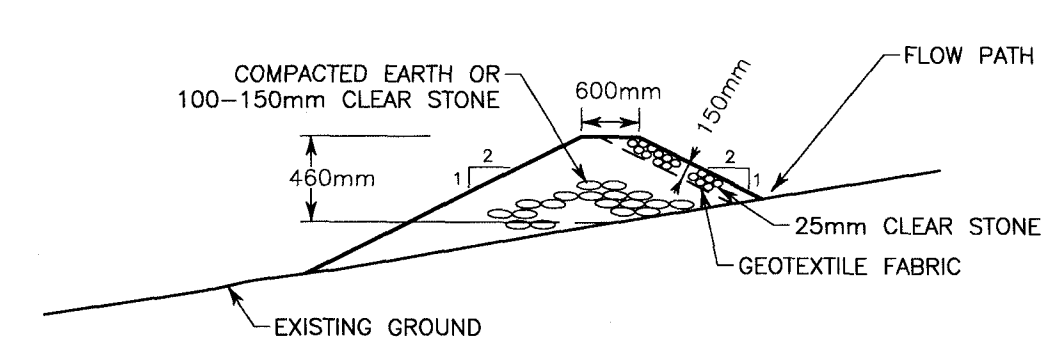
COMMERCIAL BUILDINGS 81 LOVETT COURT HALIFAX, NOVA SCOTIA

EROSION & SEDIMENTATION CONTROL PLAN

Date	May 7, 2020	Drawn	C. PORTER	Project No.	FILE NO. 1-13-37 (34816)
Scale	1:400	Engineer	G. MACLEAN	Plan No.	16-2196-1
Reference	---	Approved	G. MACLEAN	Drawing Name	C4
Surveyed	SDMM	Sheet			



SILT FENCE DETAIL
N.T.S.



BERM DETAIL
N.T.S.