

File: H19114

August 6, 2020

Boston Ghosn
Boston Developments Ltd.
50 Bedford Highway
Halifax, NS
B3M 2J2

Dear Mr. Ghosn:

Re: Construction Management Plan (Rev. 3) - 2710 Agricola Street, Halifax, NS

HGE Engineering Inc. (HGE) is pleased to submit the Construction Management Plan prepared for 2710 Agricola Street in Halifax, Nova Scotia.

We trust this report provides sufficient information for this development. If you have any questions concerning this report, please do not hesitate to contact me.

Thank you,

Original Signed

Danny Holloway, P.Eng.
Principal - Civil Engineer
dholloway@hge-inc.ca



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1. Introduction

1.1. Project Description

HGE Engineering, together with Boston Developments, has prepared this Construction Management Plan (CMP) in an effort to reduce the potential negative impacts on the community as a result on construction. This plan is intended to be an evolving document to help guide the project team to mitigate the impact to the adjacent community before they arise and to address unforeseen circumstances.

Boston Developments is proposing to build two new buildings at 2710 Agricola Street in Halifax, NS. These structures will include a standalone multi-unit three-story (3-unit) residential building (Future Build) as well as a seven-story (68-unit) mixed-use building complete with underground parking. The project will included demolition of an existing building (currently Metro Care & Share Society and Timber Lounge) and removing existing subsurface material in order to construct the new structures.

The seven-story building is located at the corner of May and Agricola Streets and includes PID's 40346355, 40346348, 40346330, 40346322, 40346314, and 00161497. These six lots are currently zoned CEN-2 and will be consolidated to one lot. The three-story residential building is located on Fern Lane, PID 40346363 and is currently zoned CEN-1. Hoarding will be required on May and Agricola Streets.

During construction, we are proposing to close the sidewalk adjacent to the site located on May and install a temporary sidewalk within the travel way along Agricola Street to increase public safety and provide contractor with additional space for excavation and general construction activities. Also, a section of the travel way on May Street is proposed to be closed for loading/unloading procedures which will narrow the travel way to 4.0m for one-way traffic. This width will allow vehicles from Civic 5756 and 5758 to enter and exit from the adjacent buildings as shown on the site plan. The modification to May Street and all proposed encroachments will need to remain throughout construction. However, encroachments proposed for service connections will be temporary in nature and will meet HRM guidelines for traffic flow.

As part of the CMP process, the contractor shall implement and inspection all aspects of the CMP daily and keep a log book of these inspections and remediation for any deficiencies. This log book must be maintained, kept on site for the duration of the project and provided to HRM upon request.

Should any changes be required to any aspect of this CMP, an email of the proposed changes will be sent to HRM for review a minimum of 10 days in advance and approval must be received prior to implementing the changes. A copy of the approved (current revision) CMP documents will be kept on site throughout construction. Should ownership or contractors change throughout the course of this project, HRM will be notified immediately and the new parties will be required to comply with the approved CMP.

1.2. Project Contact Information

The project team for the proposed development consists of:

- Owner / Contractor:
 - Boston Developments: 50 Bedford Highway, Halifax, NS, B3M 2J2
Contact: Boston Ghosn – (902) 880-1877
Contact: Jeremy Ghosn – (902) 830-7255 (24 Hour Emergency Contact)
- Traffic Control Company:
 - Frontline Traffic Services: 6 Belmont Avenue, P.O. Box 89, Eastern Passage, NS B3G 1M7
 - Contact: Phil Pruneau – (902) 818-5548

2. Construction Schedule and Logistics

2.1. Construction Schedule

The construction process is expected to take approximately two years to complete. General work is expected to begin in July 2020 and continue through to August 2022 as shown below.

2710 Agricola Construction Schedule																											
	2020						2021												2022								
Name	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	
Permit	█	█																									
Demolition		█																									
Excavation			█	█	█	█	█	█	█	█	█																
Footings			█	█																							
Foundation				█	█																						
Install Services						█																					
Backfill						█																					
Superstructure							█	█	█	█	█	█	█	█	█	█	█	█									
Exterior Façade												█	█	█	█	█	█	█									
Finish Interior																			█	█	█	█	█	█	█	█	

The encroachment area has been shown on the plan provided in the appendix and is expected to last 24 months with the following key dates:

- Encroachment of public sidewalk/street – July 31, 2020
- Finish encroachment of the public sidewalk/street (Agricola Street) – September 31, 2021
- Finish encroachment of the public sidewalk/street (May Street) – August 31, 2022

2.2. Hours

The hours of work anticipated for this project will be in accordance to all applicable bylaws including HRM Noise Bylaw N-200. Hours of work include:

- | | |
|----------------------------------|------------------|
| ○ Monday to Friday | 7:00am to 9:30pm |
| ○ Saturdays | 8:00am to 7:00pm |
| ○ Sundays and Statutory Holidays | 9:00am to 7:00pm |

The owner or contractor will notify HRM and gain approval a minimum of five days in advance of work anticipated to be outside of the work hours listed above. Deliveries for this project will occur Monday to Friday as listed above and will use the Fern Lane and May Street site access locations as shown on the site plan.

2.3. Encroachments

Work during all phases of construction (outside of site service connections list below) will be contained within the encroachment areas shown on the site plan. The project will use a combination of areas off Fern Lane and May Street for laydown, storing building materials, loading/unloading, staging, concrete and other deliveries. Concrete mixer trucks will have staggered departure times to avoid truck queuing within the HRM Right-of-way.

Adjacent to the jersey barriers and fencing along Agricola Street, a protected temporary sidewalk will be provided to avoid disruption to pedestrian traffic. Pedestrians will also be directed to the opposite side of May Street during all phases of construction to maintain a safe environment. The existing sidewalks directly adjacent to the site for both Agricola and May will be incorporated into the project area as well as a section of the May Street travel way. This encroachment will be delineated by F-type concrete jersey barriers and rigid fencing and will extend 2.4m high. Temporary encroachment areas for barrier and signage setup will also be required as per TCP's in appendix. As required by the contractor, installation of pedestrian tactile strips and signage will be carried out during barrier installation and removal activities. These encroachments will separate pedestrians from potential overhead hazards and fencing will not obstruct vehicle sight lines. Contractor to give 5 days' notice to HRM Traffic department prior to setting up encroachments and temporary sidewalk in order to change regulatory signage.

Following construction, encroachments will be reinstated as per HRM standards and released for public access.

2.4. Site Services

Outside of the standard encroachments listed above, additional encroachments will be required for site service installations as per the Service Installation TCP's provided in the appendix. It is proposed that May Street traffic will be limited to local traffic only to allow for the installation of water services between the building and the public main. Access to/from May Street via Agricola Street will be temporary closed to allow for this connection to occur. Following installation of the new water lateral, existing service connections will need to be disconnected from the public mains and a new sanitary/combined lateral installed. These connections are located within Agricola Street and it is proposed that traffic flow will be limited to one lane during non-peak hours.

This service work and street reinstatement shall be completed as quickly as possible to minimize disruptions to traffic flow and the public in general. Street reinstatement must meet HRM standards and cannot be left as gravel or open. Weekend work may be required by Halifax Water for this work and HRM shall be notified in advance of such work. Prior to this work starting, the contractor will notify all neighboring properties of the service schedule.

2.5. Hazard Assessments

As provided in the appendix, vehicle and pedestrian hazard assessments have been completed. Throughout the project, additional site hazards identified will be added to this document. The contractor shall provide this list to all site personnel for review and encourage them to identify additional hazards as they arise.

3. Relevant Regulations & Guidelines

3.1. Occupational Health & Safety Regulations

Work shall be completed in accordance with all applicable Provincial and Federal Occupational Health and Safety requirements. At a minimum and at all times, construction activities must meet the National Building Code of Canada, OH&S Act Nova Scotia, TAC Manual of Uniform Traffic Control Devices for Canada, and the Nova Scotia Temporary Workplace Traffic Control Manual.

3.2. Municipal Regulations and Guidelines

Work shall be completed in accordance with all applicable municipal regulations and guidelines including, but not limited to, the following:

- S-300 Streets;
- E-200 Encroachments;
- B-201 Building;
- N-200 Noise;
- T-600 Trees;
- S-900 Controlled Access Streets;
- T-400 Truck Routes;
- W-101 Discharge into Public Sewers;
- B-600 Blasting; and
- HRM TCM Supplement.

4. Vehicle and Pedestrian Management

4.1. Vehicular Traffic Control

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 (latest edition) and HRM Traffic Control Manual Supplement in accordance with the Traffic Control plans included in the appendix. The Traffic Control team will inspect traffic control elements at the start and end of the work day and will maintain traffic control elements as required to ensure that the TCP/PMPs are effectively and correctly implemented.

4.1.1. *Payment of Applicable Fees & Notifications*

Payment of all applicable fees will be made by owner/contractor in accordance with HRM Administrative Order 15 (AO15). Requests for lane and street closures must be submitted to HRM a minimum of 10 days prior to their planned implementation for review and approval. Notice to impacted properties shall be provided a minimum of 5 days in advance of traffic disruptions.

4.1.2. *Pedestrian Protection*

As per the Traffic Control and Pedestrian Control plans provided in the appendix, pedestrians will be able to remain on the sidewalks opposite to the site on Fern and May Street while pedestrians along Agricola will be able to use both street sidewalks due to the temporary sidewalk adjacent to the site. Pedestrians using the west side of Agricola Street and north side of May Street will encounter construction warning signage as per the PMP informing them of the sidewalk closures and changes ahead. No overhead protection will be required adjacent to the site.

4.1.3. *Emergency Vehicle Access*

Emergency vehicle access to the project site will be maintained at all times throughout the life of the project. In cases of emergencies, on-site workers will exit the project site through gates on May Street and Fern Lane. These gates will remain unlocked at all times when workers are on site to allow emergency response units to access the site.

4.1.4. *Haul Route Plan*

A Haul Route Plan is provided in the appendix and will be implemented throughout all phases of this construction project. This route has been established to minimize the effects of construction on neighboring communities and utilizes trucking routes as per the HRM Truck Routes By-law T-400. During construction, large scale construction vehicles will enter and exit the site through the gates on May Street with smaller delivery's and general access through the Fern Lane Gates.

4.1.5. Parking

There are no metered parking spaces in the vicinity of the proposed work. There are two unmetered parking spaces on Agricola Street and four on May Street adjacent to the property. During all phases of construction, these parking spaces will be closed to maintain safe distances between the public and site activities. Currently, there is no parking permitted on the south side of May Street which will be maintained to allow for the 4m wide vehicle travel way for one-way traffic on May Street from Agricola to Fern Lane.

To minimize parking requirements in adjacent neighborhoods, on-site workers will be encouraged to carpool to the project site. There will be a minimum number of available parking stalls at the staging area from the Fern Lane entrance. Once the underground parkade has been constructed and safe to use, on-site workers will park in the parkade.

Access will be maintained to the adjacent properties during construction.

4.2. Pedestrian Management

The project site borders Fern Lane, May Street and Agricola Street. All of these streets have sidewalks and during the all phases of construction, pedestrian travel will be slightly impacted. Each sidewalk directly adjacent to the site will be closed during all phases of the work with a temporary sidewalk being installed along Agricola Street. This will ensure construction and excavation limits are a safe distance from pedestrians including overhead hazards. Pedestrians approaching the project will be warned ahead of time of the changes ahead and to take alternate routes as shown on the Pedestrian Management Plan (PMP) included in the appendix.

4.2.1. Bus Stops

There are no bus stops within the vicinity of the proposed work.

4.2.2. Payment of Applicable Fees

Payment of all applicable fees will be made in accordance with HRM Administrative Order 15 (A015). Requests for lane and street closures shall be submitted to HRM by the contractor a minimum of 10 days prior to their planned implementation for review and approval.

4.2.3. Pedestrian Safety

As shown on the PMP provided in the appendix, pedestrian safety will be maintained by using the appropriate signage to warn pedestrian traffic ahead of and throughout the construction zone. The contractor will also notify HRM and the public to proposed pedestrian closures as outline in Section 8.

The contractor will install and monitor construction warning signage which will be displayed throughout the approaches to, and adjacent to, the project site. The contractor will inspect the pedestrian management elements at the start and end of the work day and will maintain pedestrian management elements as required to ensure the PMPs are effectively and correctly implemented.

Requests for modifications to the approved PMP will be sent to HRM for approval a minimum of 10 days prior to their proposed implementation. Notification of pedestrian disruptions will be distributed to affected residents and businesses a minimum of 5 days in advance of disruptions. Modifications to PMPs for unforeseen events will be sent to the Municipality for approval.

4.2.4. Visually Impaired Persons and Accessibility

All pedestrian routes shall be barrier-free, utilizing existing curb cuts and sidewalk ramps. The contractor will be responsibility for keeping all pedestrian routes free and clear of obstructions at all times, including snow, construction debris, and public debris to ensure their continued functionality. The temporary sidewalk on Agricola will give pedestrians right of way along this section of street while encroachment is in place over existing sidewalk. Signage as per PMP will allow pedestrians to navigate safely as changes have been kept to a minimum. With the additional of the temporary sidewalk, temporary crosswalks will not be required which will reduce the potential for complex situations. Signage as per TCP will notify vehicles of the construction zone ahead and to reduce speed as per Nova Scotia regulations.

In keeping with Canadian National Institute for the Blind (CNIB) requirements, any changes to existing pedestrian pathways will be delineated using signage and barriers complete with bold-font letters (16mm to 50mm), highly visible contrasting colors, such as 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 and relocations. Reflective tape will also be placed on the ends of fencing, hoarding and barricades to help delineate pedestrian routes and disruptions. Signage and tape colors will vary but will comply with the CNIB guidelines.

High visibility signage will be used to assist pedestrians to easily navigate around all blocked sidewalks.

5. Construction Site Protection and Hoarding

5.1. Site Protection

Site protection will be a combination of rigid chain link fence and interlocking F-type concrete jersey barriers measuring a total of 2.4m in height. The fencing will be covered with opaque screening along all streets adjacent to the site as per the site plan and details in the appendix. Construction traffic will enter the site via Fern Lane and May Street locations through standard lockable swing gates as per the site plan. There is no plan to screen the gates however signs will be displayed as per site plan indicating entrance and exit locations.

Fencing along internal property lines (adjacent properties) will be t-bar chain link construction fence measuring 2.4m high. Where fencing is located in close proximity of excavation, concrete waste blocks topped with construction fence measuring 2.4m in total height will be used. These fences will be covered with a mesh screening that is semi-transparent to help with dust control.

It will be the contractor's responsibility to regularly inspect the rigid fences to ensure their continued structural integrity. Any deficiencies in fencing shall be addressed immediately to prevent pedestrians from entering the project site through holes or overturned fences. The fence structure shall be sufficiently strong such that it cannot be moved, removed, or overturned without the use of tools. In the case where fencing or concrete barriers need to be installed within adjacent properties, written approval from adjacent property owners will be provided to HRM and added to CMP document 5 days prior to such work taking place. Installation and removal of all site protection will be completed during regular working hours and using the TCP plans included in the appendix.

5.2. Hoarding Information & Aesthetics

Pedestrian Management Plan Renderings will improve project site aesthetics and provide the public with information related to the project. In addition, throughout all phases of the project, the contractor shall regularly inspect the project site and adjacent areas and keep these areas clean and free of debris, snow, and ice.

The owner is not seeking a reduction in encroachment fees for site aesthetics at this time. However, in the case where the owner chooses to place advertisements on the opaque hoarding, they may contact HRM to discuss a potential reduction in encroachment fees.

Hoarding material shall cover the rigid fencing within the encroachment area and be secured adequately. The coverings should be continuous to prevent gaps between sections. UltraMesh Eclipse as outlined on the technical data sheet in the appendix is recommended for this application.

5.3. Covered Ways

No covered ways are expected for this project. However, if they are required, all covered ways including scaffolding for temporary sidewalks shall be illuminated at all times. All covered ways, including scaffolding, will be designed and certified by a Professional Engineer (P.Eng.).

5.4. Snow Removal

There will be no temporary sidewalks to keep clean during winter. However, It will be the contractor's responsibility throughout all construction phases to keep all working areas (ground level and above) clean and free of snow and ice. The contractor will not dump snow or ice onto adjacent public property and will truck snow off site as required to prevent the unsafe build-up of snow piles. The contractor will be responsible to remove snow and ice as required to ensure that the emergency access is maintained to the project site.

5.5. Site lines

It is anticipated that May Street will become a one-way street from Argicola Street to Fern Lane due to the unloading area shown on the site plan. Therefore, sites lines that could normally be affect from May to Agricola will not be an issue. However, rigid fences and signage will be installed as per the CMP drawings such that site lines are maintained around corners of street intersections.

5.6. Emergency Access & Egress

The site will be accessible through Fern Lane for small deliveries, emergency access and general site access. For larger deliveries such as crane setup, concrete trucks and other building materials; the May Street access will be used as per the attached site plan. All gated access points will be locked at all times after work hours. In cases of emergencies, on-site workers will exit the project site through these gates and will remain unlocked at all times when workers are on site so as not to restrict emergency response units from accessing the site.

There are two available existing fire hydrants located at the corner of May Street and Fern Lane as well as Agricola Street and Ontario Street. These will not be affected by construction activities. These fire hydrants will be accessible to firefighters throughout all phases of the project. No additional signage will be provided as no changes to the fire hydrant accessibility will take place. However, once the building siamese connection has been installed and tested, local fire departments will be contacted to inform them of the location and a sign will also be displayed directing fire personnel to its location.

5.7. Reinstatement/Damage of HRM Infrastructure

The contractor will be responsible to repair and pay for any and all damages incurred due to temporary encroachments including, but not limited to:

1. Sidewalks or curbs within encroachment used to anchor rigid fence and scaffolding or otherwise disturbed, to be replaced to HRM standards;
2. Street lines repainted to existing conditions;
3. Damaged sidewalks, curbs, sodding, and other public elements reinstated to existing conditions or better;
4. Tactile pedestrian launch bars removed and asphalt underneath treated with asphalt sealant;
5. Cracked asphalt within the encroachment areas repaired using hot rubber (or approved equivalent).

The developer/contractor acknowledges that any costs incurred to repair or replace this public infrastructure are the responsibility of the owner.

5.8. Protection of Trees

There are two existing street trees which share space within the public right-of-way and on private lands (located directly on property line) on Fern Lane. One of these trees will need to be removed due to the proposed sidewalk connection from the new development while the other will be protected during construction. 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. Until approval is provided, these trees are to be protected during construction in accordance with the HRM Tree Bylaw (T-600) as per the tree protection detail provide in the appendix.

5.9. Signage

Hazard warning signs and entrance/exit signs will be fastened to the access gates along Fern Lane and May Street as well as other locations as shown on site plan warning personnel of potential hazards and personal protective equipment (PPE) required. Additional signage will be placed as per the Traffic Control and Pedestrian Control plans based on the phase of construction occurring. All signage will be made of weatherproof material.

Hoarding signage will be marked with “No Trespassing – Construction Personnel Only” signs around the exterior of the site. All personnel on the construction site will be required to use all proper personal protective equipment (PPE) at all times. PPE requirements will be prominently posted and visitors will be required to sign in at the project site office before entering the site.

5.9.1. Project Information and Contacts

Project information boards will be posted at the entrance to the site on Fern Lane, adjacent to both gates on May Street and on the fence at the Agricola Street sidewalk closure. The boards will be no less than 900 mm x 600 mm in dimensions (See appendices) and will be placed at the project site a minimum of 10 days prior to the commencement of work as per the site plan.

5.9.2. Pedestrian Detour Wayfinding

During construction, pedestrian detour wayfinding signs will not be required as routes will not be affected by the construction activities and pedestrians will be able to access local businesses without interruption.

6. Lifting, Hoisting and Crane Operations

6.1. Navigation Canada & Transport Canada Regulatory Approvals

This project will require a tower crane as shown on the site plan in the appendix. The top of the crane is expected to be at an elevation of approximately 40 m above the sidewalk (99.6m above sea level) with a 30 m working radius. The coordinates for the crane are: N4946726.9300, E25571675.9010.

There are two registered existing aerodromes with HRM and include the Halifax International Airport and the Canadian Forces Base Shearwater. Also, there are various flight paths for local hospitals within HRM. We understand the project area to be outside of these areas to which the restrictions apply. However, Transport Canada and Nav Canada have been notified and confirmation will be provided by the owner prior to constructing the tower crane.

During crane assembly and disassembly, crane components will be unloaded from a transport truck within the loading area on May Street. These components will be assembled within the project site by site equipment. TCP and PMP plans will be in affect during these operations. May Street will need to be shut down during the installation and removal of the crane as indicated in the appendix.

6.2. Operations above the Public Realm

Due to the location of the loading area and encroachment areas in comparison with the crane, no loading operations are expected to be required above the public realm for this work. During crane lifting operations, loads are expected to remain within the site boundaries and never suspended over the public realm. However, the extents of the crane will sway over adjacent properties during these movements. The owner will provide approval from the adjacent property owners to allow the extents of the crane to sway over the properties on the north corner of Fern Lane and May Street.

Should any load operations be required over the public realm, the area in the vicinity if the work will be closed in accordance with short duration traffic control protocols as per the Nova Scotia Traffic Control Manual. Loads shall be treated with extreme care and shall not be suspended over the public or construction workers.

There are no obstacles within 3m of the end of the boom arm of the crane.

7. On-Site Conditions

7.1. Site Safety and Security

All contractors on site will be required to be registered members in good standing with the Nova Scotia Construction Safety Association. Contractors will be required to comply with all applicable safety codes and regulations. In addition, the following will be implemented:

- The contractor and sub-trades will be required to attend a mandatory site safety orientation including all visitors;
- Emergency contact information must be visible at all times and prominently posted;
- Gates will be locked and the perimeter fence secured during off works hours and monitored in high traffic areas during operation. During holidays and weekends, the contractor will be responsible to check the project site gates daily to ensure they are secure;
- Personal protective equipment (PPE) will be required at all times for everyone on site;
- Adequate signage will be installed outside the hoarding to warn of all hazards that would exist;
- Hoarding will be clearly marked as a no trespassing zone, construction personal only and PPE requirements will be marked;
- Regular safety inspections will be conducted to ensure suitability of hoarding and other safety devices such as first aid kits, fire extinguishers, and burn kits. Deficiencies and replenish kits to be noted as required for any missing or used items. Inspection reports on maintenance activities carried out will be kept on site at all times;
- All on-site workers and visitors will be encouraged to identify potential hazards as they arise.

The contractor will be required to have certified first aid responders on site during all construction activities. First aid kits will be made available at the project site and site office and locations of first aid kits will be prominently posted and communicated to all on-site workers and visitors. In addition, fire extinguishers and burn kits will remain available on site at all times.

7.2. Dangerous Activities

Public safety and the safety of on-site workers will be of critical importance throughout all construction phases and all works will be carried out in accordance with the Nova Scotia Occupational Health and Safety Act. For all dangerous activities, first aid kits will be readily available as outlined in Section 7.1.

7.2.1. *Hot Works*

Hot works will be undertaken a minimum of 3 m inside the project site property boundary. During hot works, the contractor will ensure that a first aid kit and fire extinguisher are readily available (in addition to the first aid kits and fire extinguishers identified in Section 7.1) in the immediate vicinity of the work such. In addition, hot works will be undertaken away from heavy equipment and heavy equipment routes.

7.2.2. *On-Site Smoking*

A designated smoking area will be set up adjacent to the project site trailer as per HRM smoking by-law. In addition, under no circumstances will smoking or open flames be permitted within the vicinity of combustible or explosive materials, to a minimum standard as identified in the material's product specifications.

7.2.3. *Ignition Source Controls*

It will be the contractor's responsibility to review potential ignition sources regularly and to proactively mitigate the potential for them to ignite. Potential ignition sources include faulty wiring, hot surfaces and motors, welding, grinding, and other sparks, convex lenses (magnifying glasses), and reactive chemicals. Material and equipment specifications and best practices will be followed during all construction activities to reduce the risk of ignition. In addition, potential ignition sources and work which may result in potential ignition will be kept away from heavy equipment and heavy equipment routes.

7.2.4. *Storage of Combustible Materials*

On-site materials will be protected as required from environmental conditions such as snow, rain, and wind to prevent materials from causing harm to on-site workers or the general public. Combustible materials, as well as explosive, reactive, and corrosive materials, will be stored in accordance with their product specifications using storage sheds and containers within the loading area and on-site as required and will be kept away from heavy equipment and heavy equipment routes.

7.2.5. *Waste Management Practices*

Throughout construction the contractor will be required to maintain a clean and tidy work environment and work to proactively eliminate risks. The contractor will monitor the project site at the start and end of the work day, or more frequently as required, to ensure that waste is removed in a prompt and timely manner such that it does not pose a risk to on-site construction activities, on-site workers, or the general public. A garbage container with lid shall be provided within the site.

7.3. Emergency Contact Information

As outlined above, the developer and contractor emergency contact information will be prominently posted around the site.

7.4. Fire Suppression System

There are no existing siamese connections on this site. However, there are two available existing fire hydrants located at the corner of May Street and Fern Lane as well as Agricola Street and Ontario Street. These will not be affected by construction activities and are within 45m of the new building. These fire hydrants will be accessible to firefighters throughout all phases of the project. Once siamese connection is available, signs will be posted directing firefighters to its location.

7.5. Material Handling, Loading/Unloading, Delivery, and Vehicle Staging

Material handling, loading and unloading, and vehicle staging will take place within the project site and encroachments areas and deliveries will be made by way of the access gates as identified on the site plan. Barriers and fencing in these areas will separate construction activities from public traffic and the contractor shall follow the Haul Route Plan for delivery of all material.

Stockpiled material, if required, will be stored separately from other materials. They shall also be stockpiled safely with appropriate heights and angles. All onsite materials shall be secured and protected against rain, snow, and wind to prevent materials from causing harm to on-site workers or the public. Particular efforts will be made to prevent dust and other materials from becoming airborne during high wind events.

7.6. Environmental Controls

7.6.1. *Street & Right-of-Way Cleaning*

The public street adjacent to the site will be kept clean of debris, dirt, snow and ice at all times during construction. The contractor will use a street cleaner, when required, to meet this requirement. The site access on Fern Lane and May Street will be monitored on a continuous basis and cleaned to ensure the public right-of-way is safe and clean. Pedestrian travel ways will be hand swept daily, or more frequently as required. The contractor shall immediately act on HRM orders relating to cleaning efforts within the public right-of-way.

7.6.2. *Stormwater Management and Runoff Pollution*

The contractor will be required to prevent soil-laden runoff from entering all adjacent catch basins and leads through the use of erosion and sediment controls in accordance with the NSE Erosion & Sedimentation Control Handbook. Nearby catchbasins shall be fitted with sediment traps and shall be maintained throughout construction. If required, all on site stormwater will be collected into settling ponds pumped to the public stormwater system in accordance with HRM Bylaw W-101 (Respecting Discharge into Public Sewers) complete with appropriate fees to Halifax Water. As per the design drawings, post-developed stormwater flows will be less than existing conditions and a catchbasin will be installed along the walkway exiting to Fern lane to capture stormwater prior to the HRM right-of-way.

7.6.3. *Noise and Dust Pollution*

The contractor will at all times adhere to the HRM Noise Bylaw (N-200). No work will take place on the project site outside those hours identified in Section 2 of this report.

HRM reserves the right to direct the contractor to water the project site for dust control or for cleaning the right-of-way. Therefore, the contractor shall provide a watering truck to help control dust during dry conditions and act immediately upon HRM's request. Fencing and opaque mesh will also assist in preventing the spread of dust throughout the project site.

Additional methods for controlling dust shall include checking vehicle tires prior to leaving the site for soils and cleaning as required; regularly topping the access driveway with clean gravel; and during the super structure phase, the upper levels of the new building shall be regularly swept clean and materials secured to prevent construction debris from exiting the building site.

7.6.4. Emissions Control

All vehicles and construction equipment used on site shall be properly maintained and emissions from combustion engines shall meet all applicable regulations. All construction vehicles will be required to use the loading area for parking and idling to keep exhaust emissions within the construction zone as much as possible. Vehicles will be staged so that idling will not occur for more than 20 minutes at a time. Note that, unless a vehicle motor is required to run to complete work functions, it must be turned off after no more than 3 minutes. Signs identifying these idling requirements will be posted on the front of the project site office trailer and within the loading area.

7.6.5. Rodent Control

As per HRM regulations, the contractor will engage a certified rodent control professional to review the conditions prior to demolition of the existing building and implement a Rodent Control Plan 14 days prior to demolition. This control plan has been added to the appendix.

The rodent control professional will be certified by the Canadian Pest Management Association (CPMA), is a member in good standing with the National Pest Management Association (NPMA), and is certified to be in conformance with ISO 9001:2008. All rodent control technicians on site will also hold Nova Scotia Environment pest control licenses. Proof of these documents will be kept at the site office trailer at all times.

7.6.6. Light Pollution

While lighting of temporary sidewalks is not required for this project, any temporary lighting within the public realm will be subject to approval by HRM Right-of-Way Services, and will adhere to the ANSI/IES RP-8-14 Roadway Lighting Guidelines. At such time, the design of the temporary lighting will be completed by a Professional Engineer (P.Eng.) registered in the province of Nova Scotia such that it does not negatively impact adjacent properties. Lighting of the project site (private property) will be 3 m (maximum) above the highest elevation of the building or excavation and will be directed inwards towards the property. Light design shall be provided by the contractor at the request of HRM.

8. Community Engagement & Notification

8.1. Pre-CMP Community Engagement

No Pre-CMP Community Engagement has been completed by the current owner as the building was purchased with an approved development agreement which would have engaged the community at that time. No records have been provided to the current owner of such meetings. However, the owner is committed to positive public engagement through the construction process. Notifications relating to construction schedule and activities will be sent to adjacent property owners as part of the community notification process. A Draft Notification of Construction letter is provided in the appendix along with a location map for letter deliveries. Approximately 5 business days prior to the site work starting, this notification will be circulated to adjacent properties. The developer, contractor and traffic company shall attend a pre-construction meeting to review the CMP on site with HRM. HRM will coordinate the time and date for this meeting.

8.2. Scheduled Community Notifications

Monthly project updates will be displayed on the Project Information Board and will also be distributed through social media as coordinated through the owner. These updates will include:

- The month pertaining to the update;
- The development name and owner and contractor contact information;
- Brief updates on project progress;
- Brief updates on expected upcoming construction activities that may affect the community;
- Specific details of any work within the ROW that is to occur outside of the approved encroachment that may result in additional traffic control measures or closures; and
- Any other relevant information.

The owner will review and promptly respond to all questions or concerns raised during the work and provide further communication as required by the community. A sample Monthly Project Update Letter is provided in the appendix.

8.3. Closure Notification Requirements

Notification of street closures and public service interruptions will adhere to the requirements of the HRM Traffic Control Manual Supplement. Street closure requests will be provided within 10 days (minimum) notice to HRM prior to their planned implementation and must be approved by HRM prior to implementation. Notification to the affected public will be made a minimum of 5 days prior to the disruption as per the map included in the appendix. These notifications will be hand delivered and the contractor will keep and maintain a list of all effectively notified property owners such that they ensure all affected parties are notified. The contractor will notify HRM immediately upon confirmation of affected parties that have been notified and their respective civic addresses. A Draft Notification of Utility Disruption Letter is provided in the appendix.

9. Permit & Notification Requirements

The contractor will be responsible to coordinate a pre-construction meeting 10 days prior to construction commencement to review the CMP on site. Attendees will include the contractor, the owner, HRM, Halifax Water (HW), utility companies, and representatives from neighboring properties.

10. Regulation & Enforcement

The contractor will be responsible to monitor the implementation of the CMP on a daily basis, or more frequently as necessary, to ensure its continued effectiveness. The contractor will complete a daily inspection/maintenance log of all CMP elements.

11. Summary

This CMP has been prepared in an effort to minimize the potential negative impacts to the community, pedestrians, and traffic throughout construction of this project. This CMP 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 as necessary as approved by HRM.

Appendix A
Encroachment Site Plan

Appendix B
Traffic Control Plans



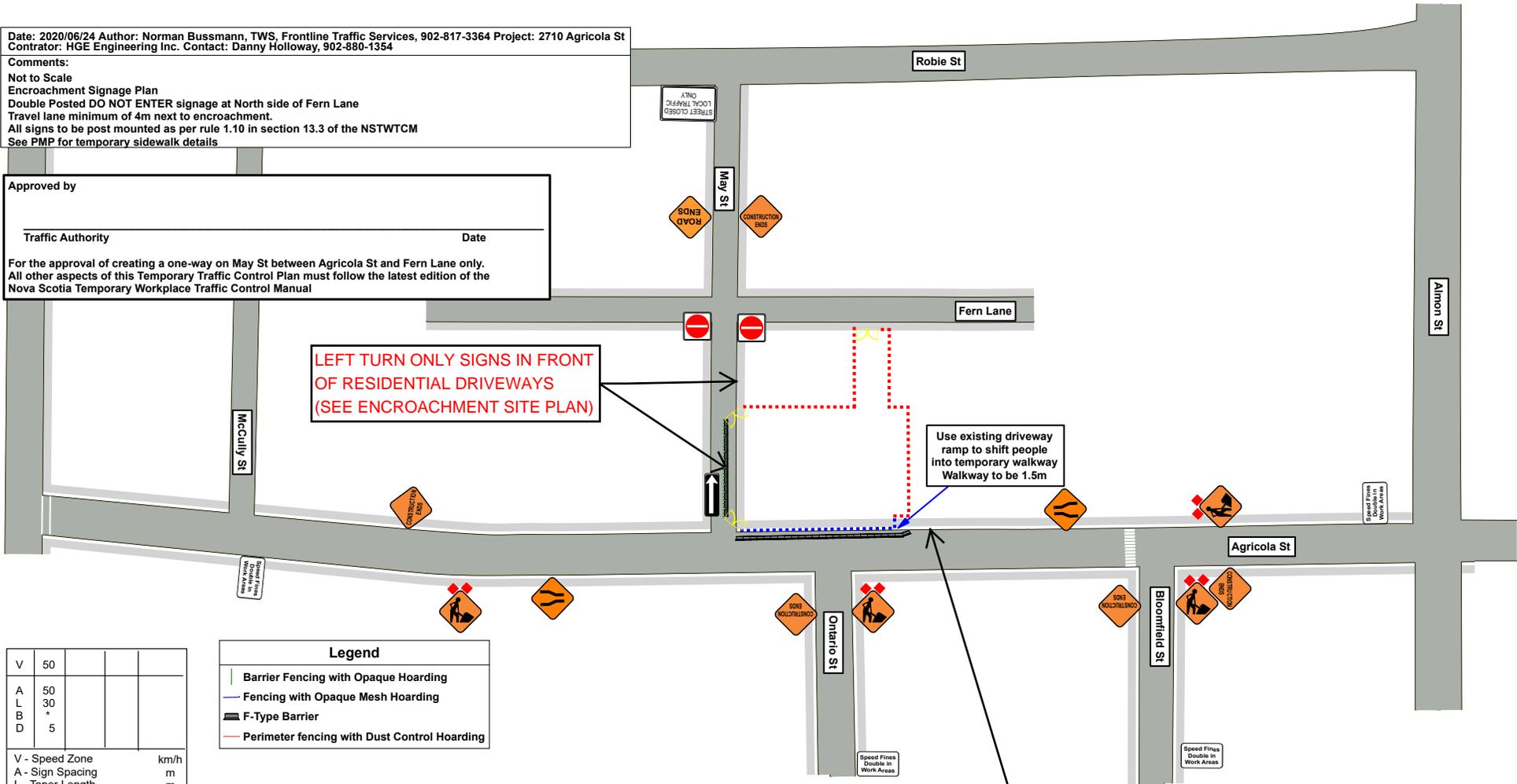
Encroachment Signage Plan

Date: 2020/06/24 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 2710 Agricola St
 Contrator: HGE Engineering Inc. Contact: Danny Holloway, 902-880-1354

Comments:
 Not to Scale
 Encroachment Signage Plan
 Double Posted DO NOT ENTER signage at North side of Fern Lane
 Travel lane minimum of 4m next to encroachment.
 All signs to be post mounted as per rule 1.10 in section 13.3 of the NSTWTCM
 See PMP for temporary sidewalk details

Approved by _____ Date _____
 Traffic Authority _____

For the approval of creating a one-way on May St between Agricola St and Fern Lane only.
 All other aspects of this Temporary Traffic Control Plan must follow the latest edition of the
 Nova Scotia Temporary Workplace Traffic Control Manual



LEFT TURN ONLY SIGNS IN FRONT
 OF RESIDENTIAL DRIVEWAYS
 (SEE ENCROACHMENT SITE PLAN)

Use existing driveway
 ramp to shift people
 into temporary walkway
 Walkway to be 1.5m

NO PARKING SIGN NORTH OF
 EXISTING DRIVEWAY RAMP (SEE
 ENCROACHMENT SITE PLAN)

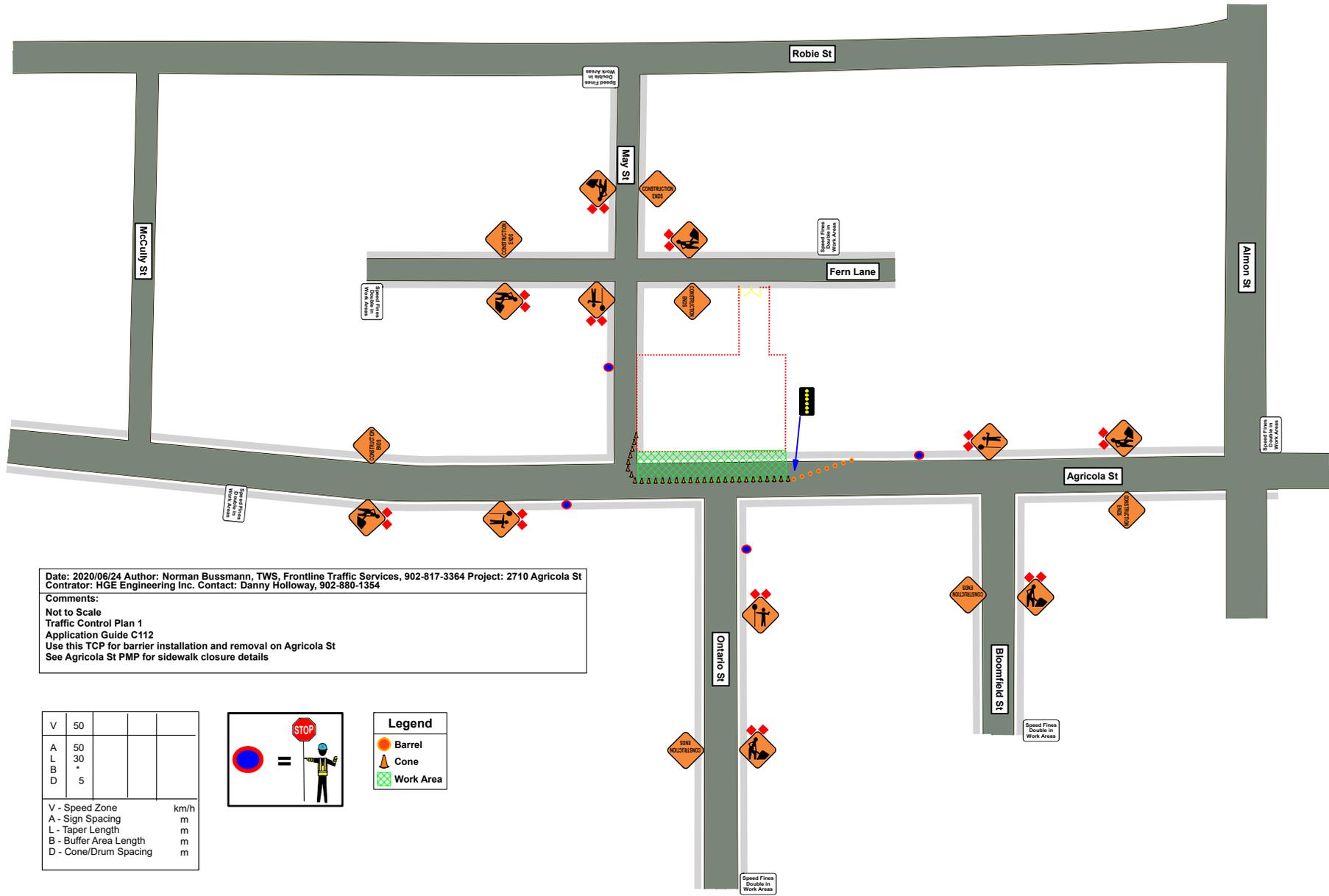
V	50			
A	50			
L	30			
B	*			
D	5			

V - Speed Zone km/h
 A - Sign Spacing m
 L - Taper Length m
 B - Buffer Area Length m
 D - Cone/Drum Spacing m

Legend	
	Barrier Fencing with Opaque Hoarding
	Fencing with Opaque Mesh Hoarding
	F-Type Barrier
	Perimeter fencing with Dust Control Hoarding



Agricola St Barrier Installation and Removal Plan

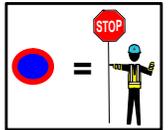


Date: 2020/06/24 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 2710 Agricola St
 Contrator: HGE Engineering Inc. Contact: Danny Holloway, 902-880-1354

Comments:
 Not to Scale
 Traffic Control Plan 1
 Application Guide C112
 Use this TCP for barrier installation and removal on Agricola St
 See Agricola St PMP for sidewalk closure details

V	50			
A	50			
L	30			
B	*			
D	5			

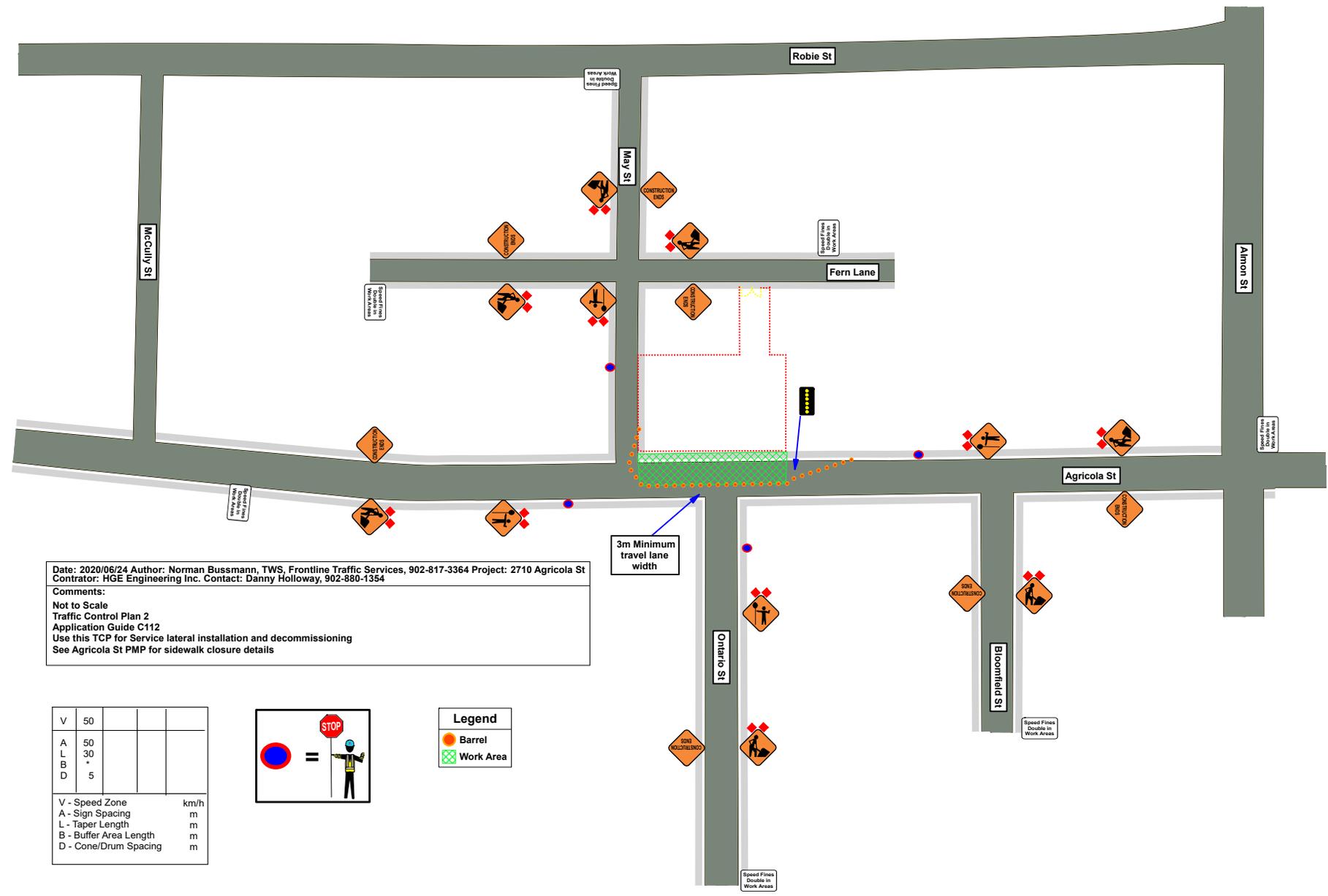
V - Speed Zone km/h
 A - Sign Spacing m
 L - Taper Length m
 B - Buffer Area Length m
 D - Cone/Drum Spacing m



- Legend**
- Barrel
 - Cone
 - Work Area



Agricola St Service Laterals Plan

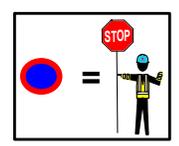


Date: 2020/06/24 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 2710 Agricola St
 Contrator: HGE Engineering Inc. Contact: Danny Holloway, 902-880-1954

Comments:
 Not to Scale
 Traffic Control Plan 2
 Application Guide C112
 Use this TCP for Service lateral installation and decommissioning
 See Agricola St PMP for sidewalk closure details

V	50			
A	50			
L	30			
B	+			
D	5			

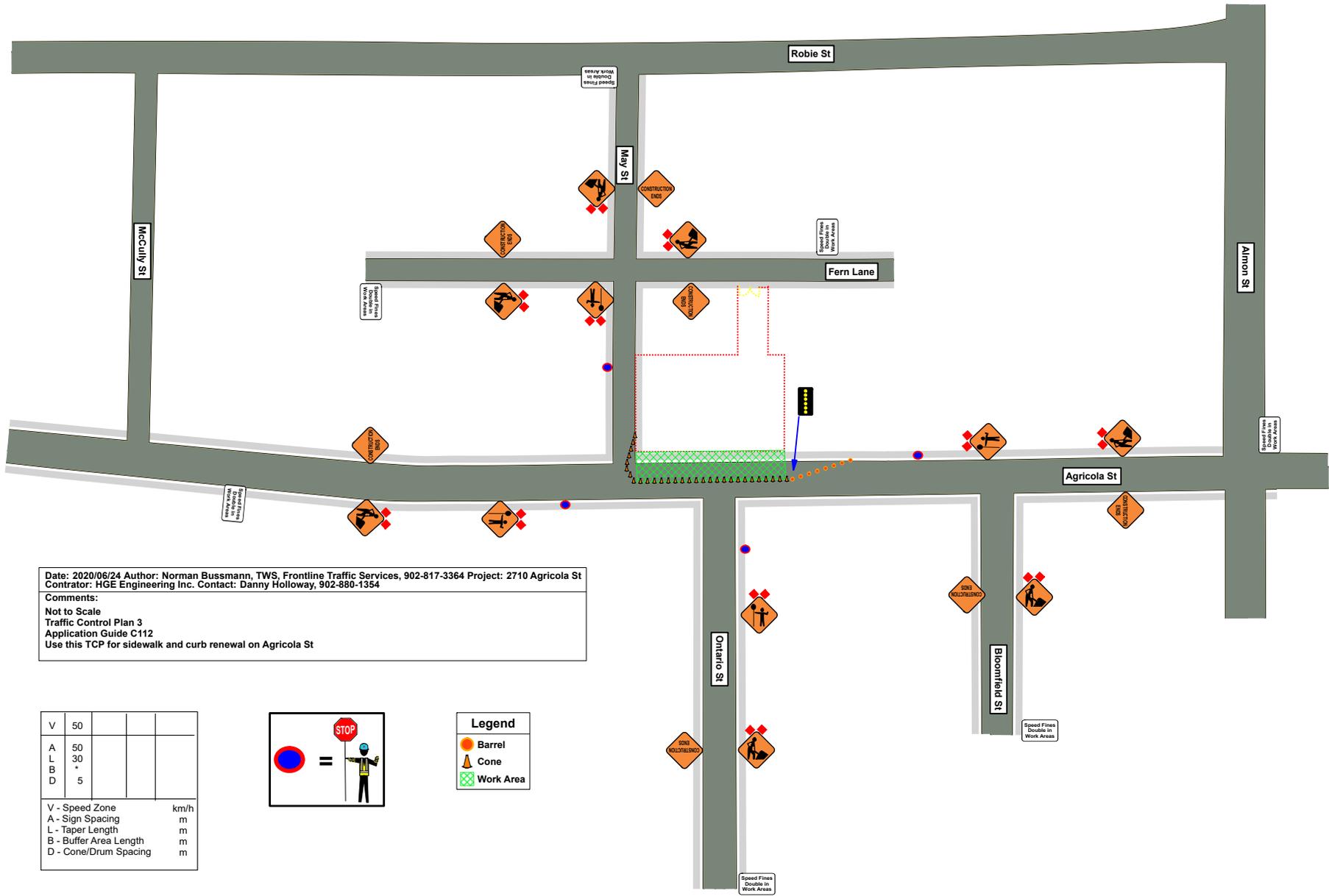
V - Speed Zone km/h
 A - Sign Spacing m
 L - Taper Length m
 B - Buffer Area Length m
 D - Cone/Drum Spacing m



Legend	
	Barrel
	Work Area



Agricola St Sidewalk and Curb Renewal Plan

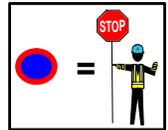


Date: 2020/06/24 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 2710 Agricola St
 Contrator: HGE Engineering Inc. Contact: Danny Holloway, 902-880-1354

Comments:
 Not to Scale
 Traffic Control Plan 3
 Application Guide C112
 Use this TCP for sidewalk and curb renewal on Agricola St

V	50			
A	50			
L	30			
B	+			
D	5			

V - Speed Zone km/h
 A - Sign Spacing m
 L - Taper Length m
 B - Buffer Area Length m
 D - Cone/Drum Spacing m

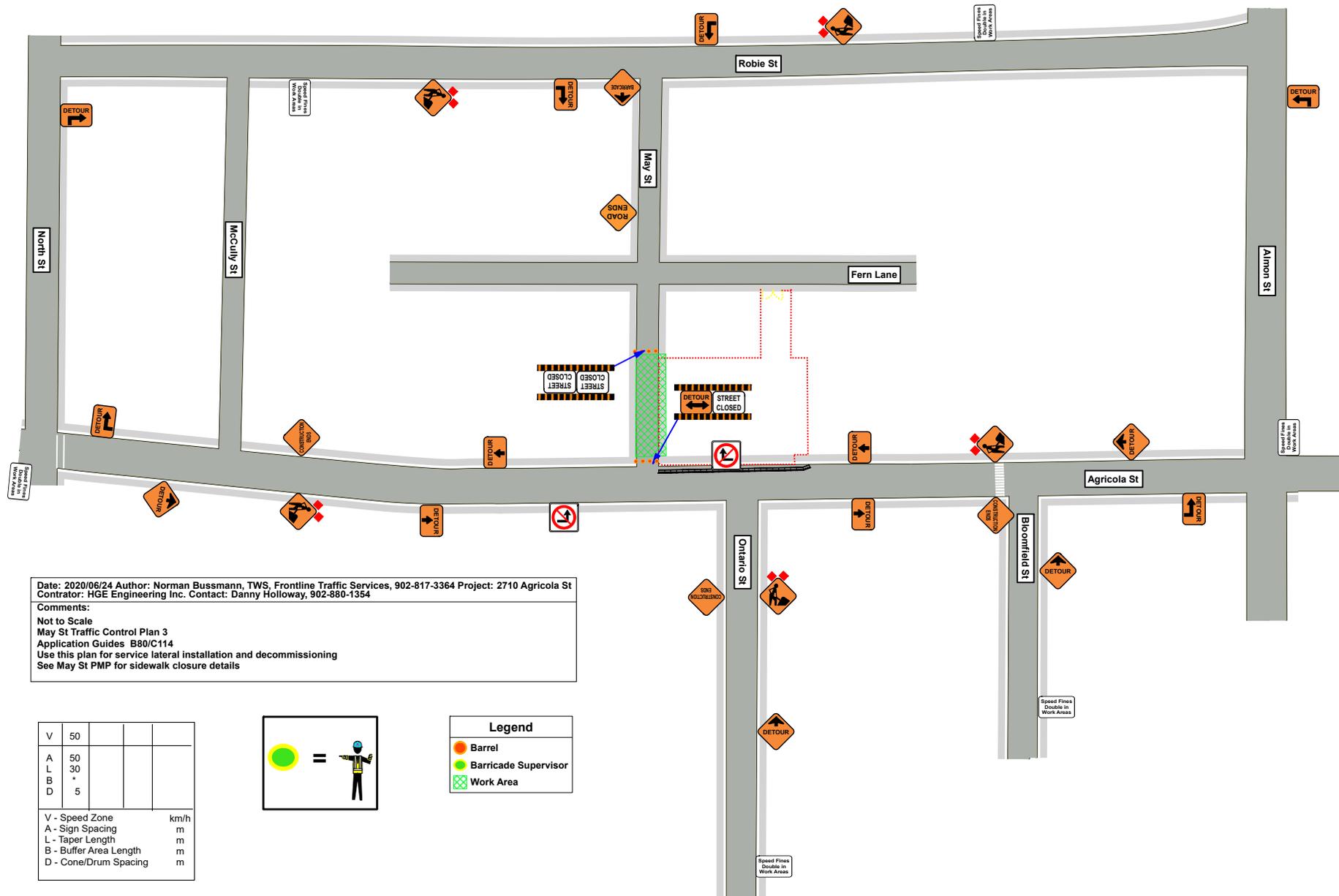


Legend

- Barrel
- Cone
- Work Area



May St Encroachment Installation and Removal Plan

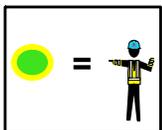


Date: 2020/06/24 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 2710 Agricola St
 Contrator: HGE Engineering Inc. Contact: Danny Holloway, 902-880-1354

Comments:
 Not to Scale
 May St Traffic Control Plan 3
 Application Guides B80/C114
 Use this plan for service lateral installation and decommissioning
 See May St PMP for sidewalk closure details

V	50			
A	50			
L	30			
B	*			
D	5			

V - Speed Zone km/h
 A - Sign Spacing m
 L - Taper Length m
 B - Buffer Area Length m
 D - Cone/Drum Spacing m



Legend

- Barrel
- Barricade Supervisor
- Work Area

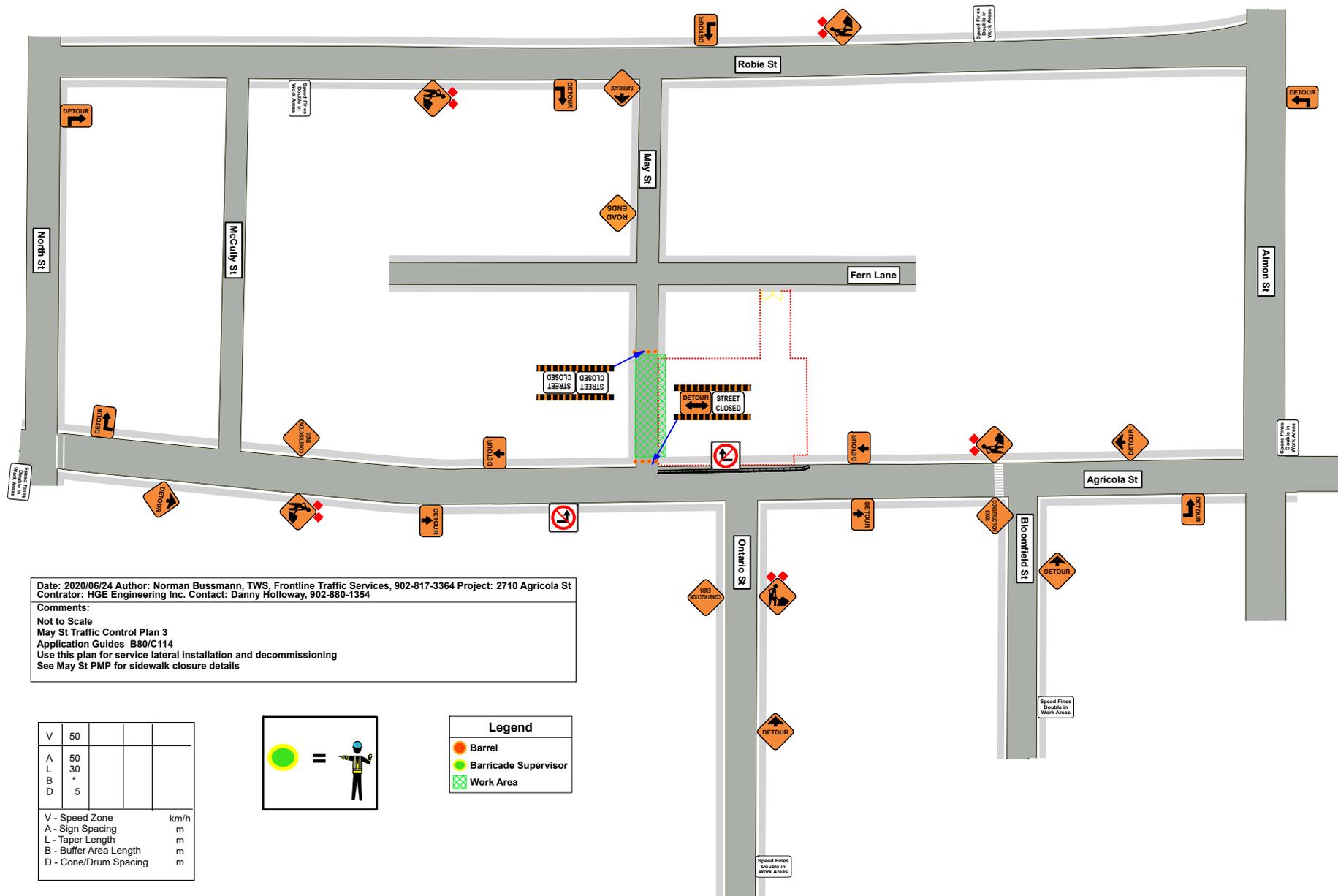
Speed Fines Double in Work Areas

Speed Fines Double in Work Areas

Speed Fines Double in Work Areas



May St Crane Installation and Removal Plan

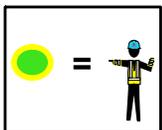


Date: 2020/06/24 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 2710 Agricola St
 Contrator: HGE Engineering Inc. Contact: Danny Holloway, 902-880-1354

Comments:
 Not to Scale
 May St Traffic Control Plan 3
 Application Guides B80/C114
 Use this plan for service lateral installation and decommissioning
 See May St PMP for sidewalk closure details

V	50			
A	50			
L	30			
B	*			
D	5			

V - Speed Zone km/h
 A - Sign Spacing m
 L - Taper Length m
 B - Buffer Area Length m
 D - Cone/Drum Spacing m



Legend

- Barrel
- Barricade Supervisor
- Work Area

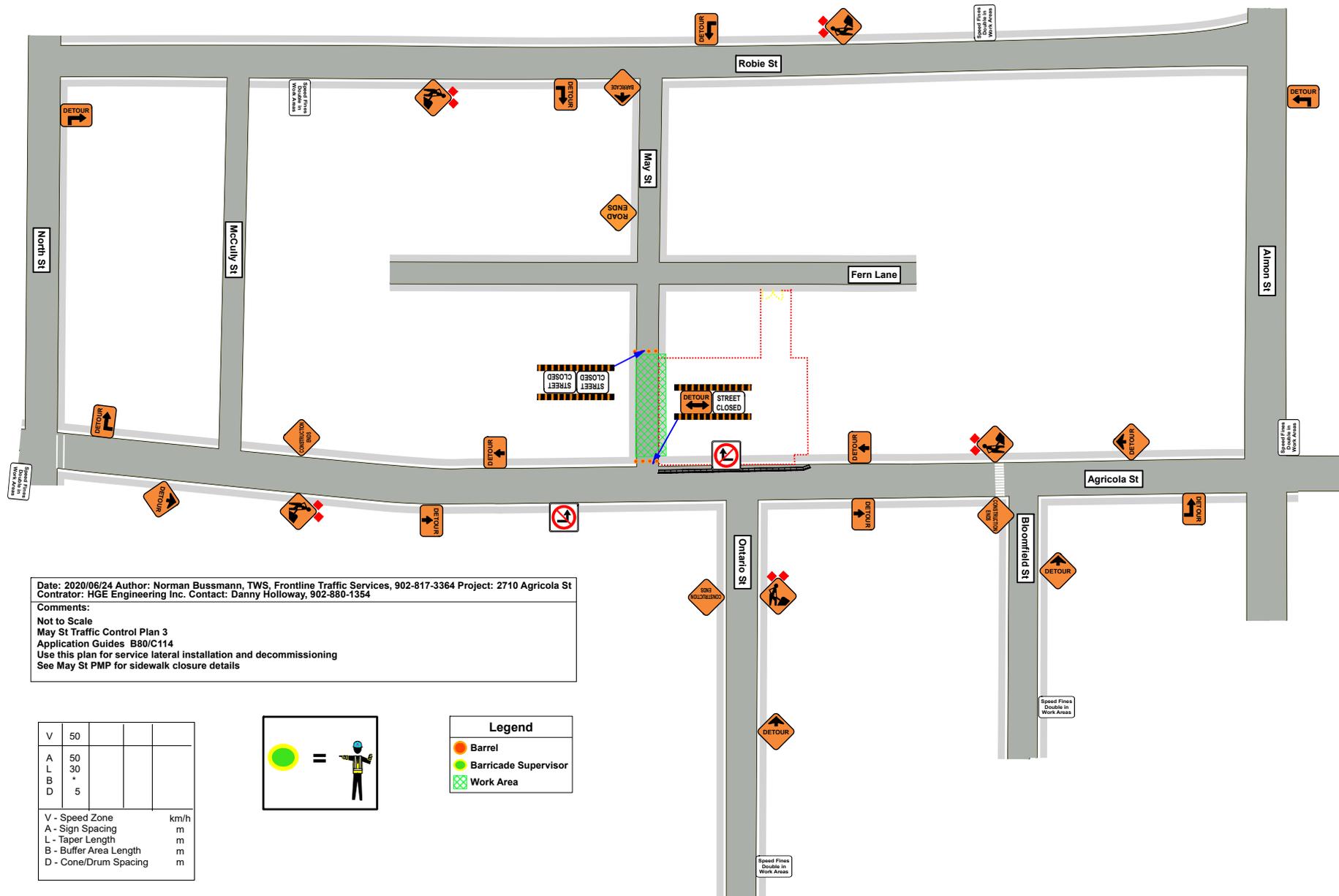
Speed Fines Double in Work Area

Speed Fines Double in Work Area

Speed Fines Double in Work Area



May St Service Lateral Installation / Decommissioning Plan

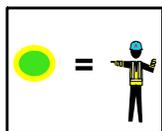


Date: 2020/06/24 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 2710 Agricola St
 Contrator: HGE Engineering Inc. Contact: Danny Holloway, 902-880-1354

Comments:
 Not to Scale
 May St Traffic Control Plan 3
 Application Guides B80/C114
 Use this plan for service lateral installation and decommissioning
 See May St PMP for sidewalk closure details

V	50			
A	50			
L	30			
B	*			
D	5			

V - Speed Zone km/h
 A - Sign Spacing m
 L - Taper Length m
 B - Buffer Area Length m
 D - Cone/Drum Spacing m



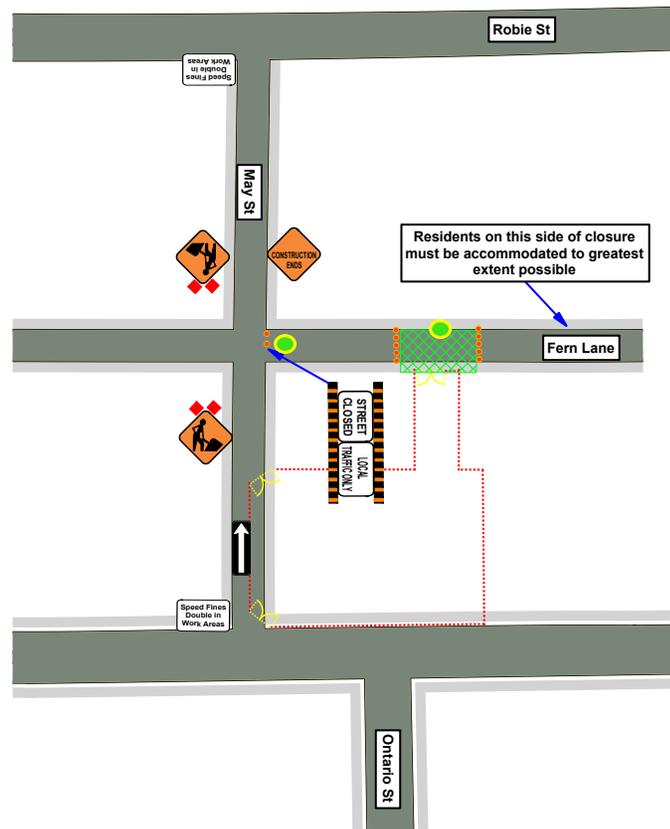
Legend	
	Barrel
	Barricade Supervisor
	Work Area

Fern Lane Traffic Control Plan 1

Date: 2020/06/24 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 2710 Agricola St
 Contrator: HGE Engineering Inc. Contact: Danny Holloway, 902-880-1354

Comments:

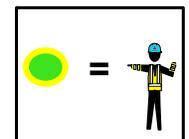
Not to Scale
 Fern Lane Closure Plan
 Application Guide C101
 See Fern Lane PMP for sidewalk closure details



V	50			
A	50			
L	30			
B	+			
D	5			

V - Speed Zone km/h
 A - Sign Spacing m
 L - Taper Length m
 B - Buffer Area Length m
 D - Cone/Drum Spacing m

Legend	
	Barrel
	Barricade Supervisor
	Work Area



Appendix C
Pedestrian Management Plans

Pedestrian Management Plan

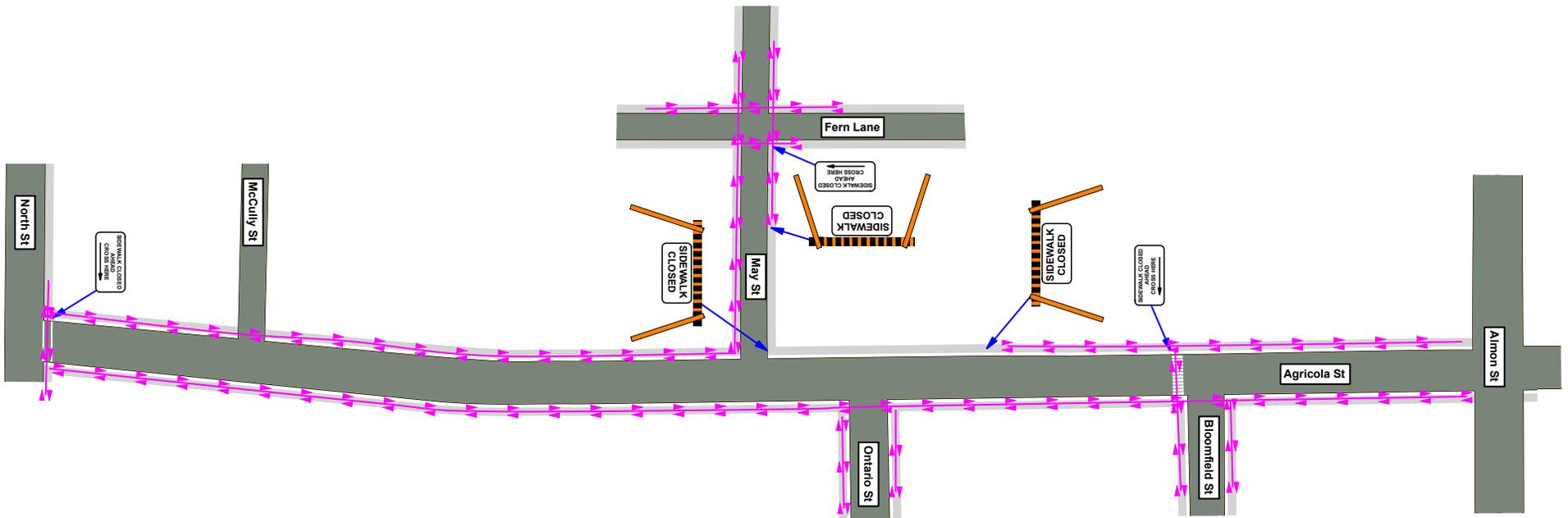
Date: 2020/06/24 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 2710 Agricola St
Contrator: HGE Engineering Inc. Contact: Danny Holloway, 902-880-1354

Comments:

Not to Scale
Pedestrian Management Plan for temporary sidewalk closure of Agricola St
with long duration closure of May St



Legend
▲ Pedestrian Route



Pedestrian Management Plan 2

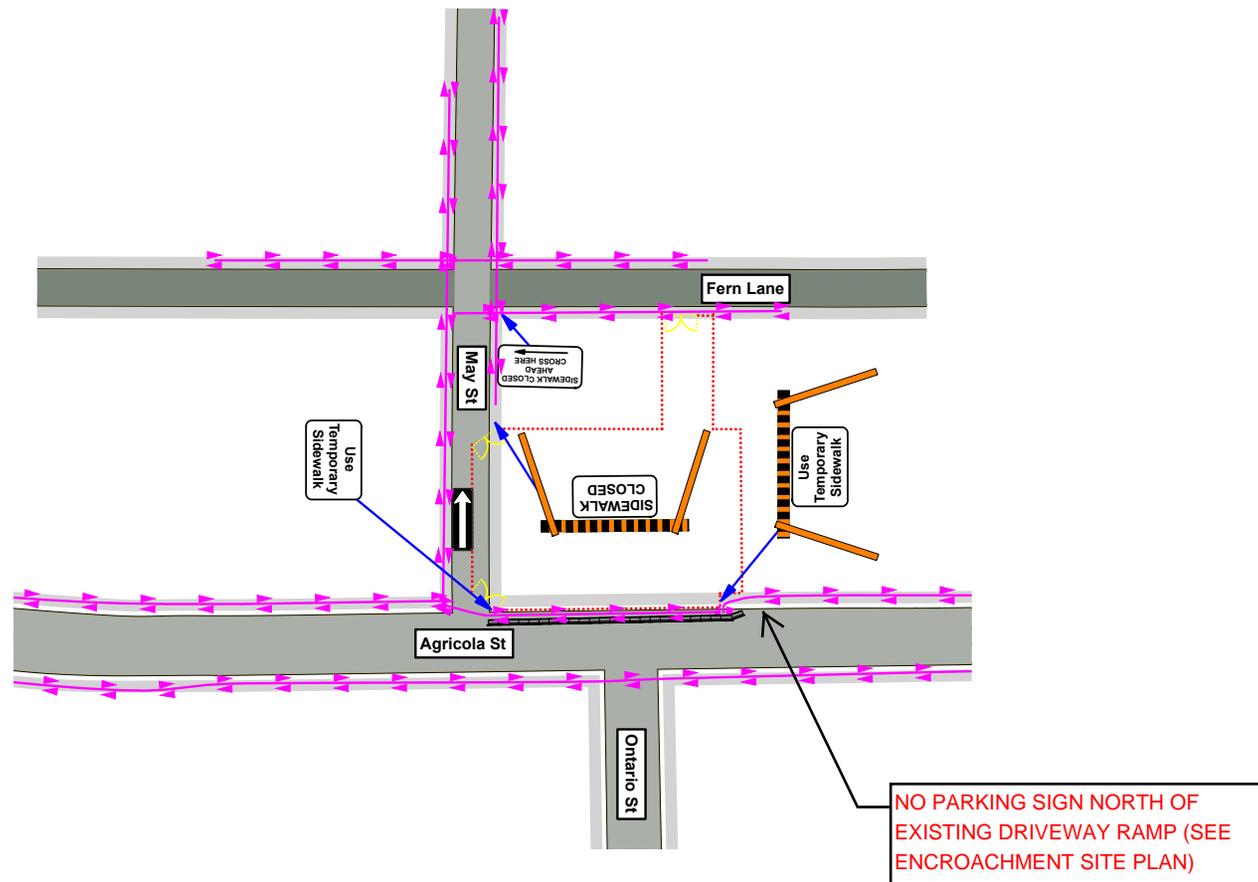


Date: 2020/06/24 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 2710 Agricola St
Contrator: HGE Engineering Inc. Contact: Danny Holloway, 902-880-1354

Comments:

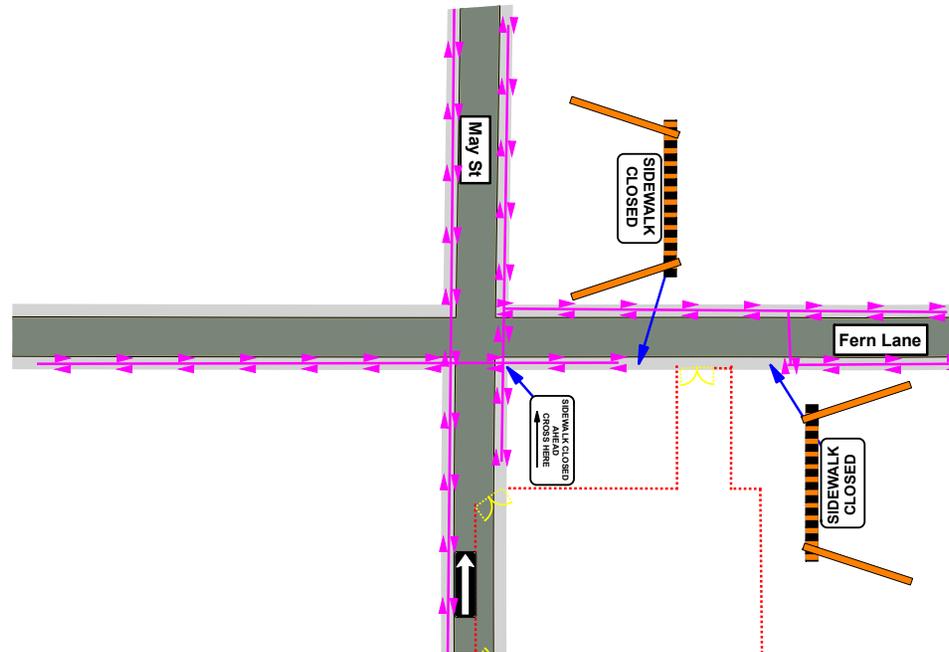
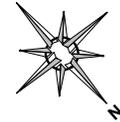
Not to Scale
Pedestrian Management Plan
This Plan to be used with Encroachment Signage Plan for long duration sidewalk closure of May St
and use of temporary sidewalk along Agricola St

Legend
▼ Pedestrian Route



Fern Lane Pedestrian Management Plan

Legend	
	Pedestrian Route



Date: 2020/06/24 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 2710 Agricola St
Contrator: HGE Engineering Inc. Contact: Danny Holloway, 902-880-1354

Comments:
Not to Scale
Fern Lane Pedestrian Management Plan

Appendix D
Haul Route Plan

Appendix E
Hoarding Material / Barrier & Fence Details

UltraMesh® Eclipse® is a 7.96 oz. polyester, black-backed mesh. The material is ideal for applications where complete opacity is required. UltraMesh Eclipse allows 45% air-flow and may be used for building wraps and fence graphics. UltraMesh Eclipse is compatible with solvent, eco-solvent and UV printing. Available in widths of 126" and 196".

Material Details

CHARACTERISTICS	TEST METHOD	METRIC	ENGLISH
Base Fabric	100% PES	1000Dx1000D	
Construction		12x12	
Total Weight	DIN53352 BS3424 Method5A	270 +/- 20 gsm/m ²	7.96 oz/yd ²
Width		Up to 500cm	
Tensile Strength	DIN53352 BS3424	Warp 1250 n/5cm Weft 1100 n/5cm	142.75 x 130.19 lb/in
Tear Strength	DIN53356 BS3424	Warp 235 N Weft 225 N	52.8 x 50.5 lbf
Air Permeability	GB/T 2410-2008	2649 mm/s	
Light Transmission	GB/T 5453-1997	37%	
Temperature Resistance	DIN53357 BS3425 Method 10	-20°C~70°C	

Applications

	Back-lit	Banner	Billboard	Block-out	Building Wrap	Fence Graphics	Truckside
Applications		■		■	■	■	

Ink Printability

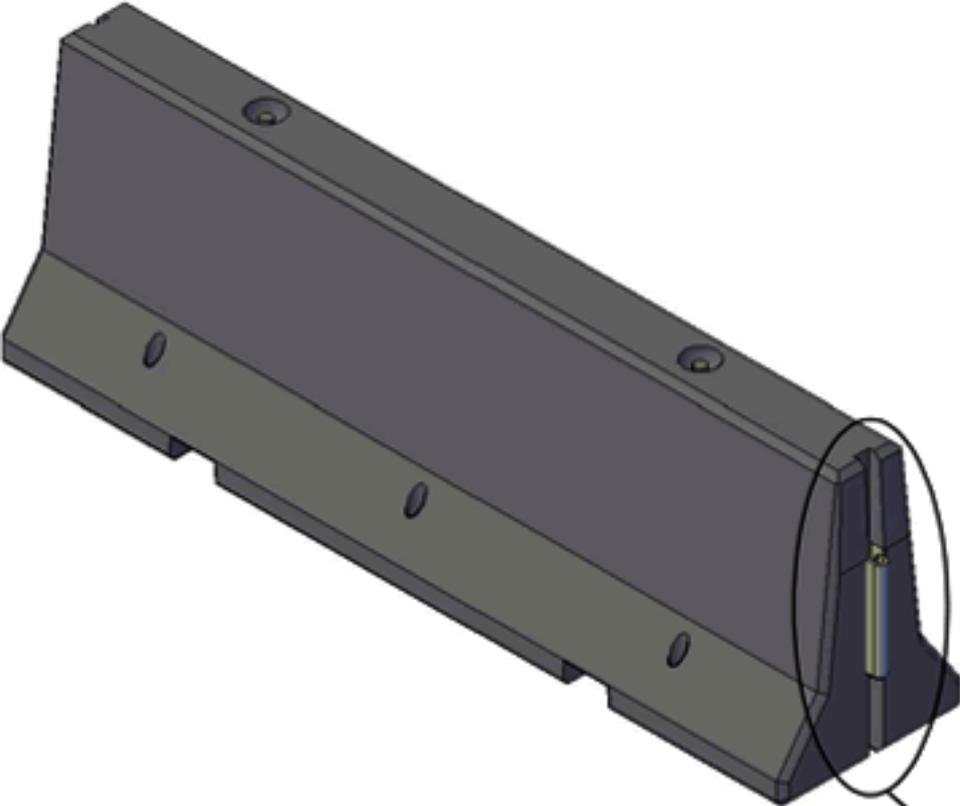
Solvent	Eco Solvent	UV	Latex	Screen Printing	Dye Transfer	Dye Direct
■	■	■				

Available Sizes

Metric (m)	English (inches)
3.20, 5.00	126", 196"

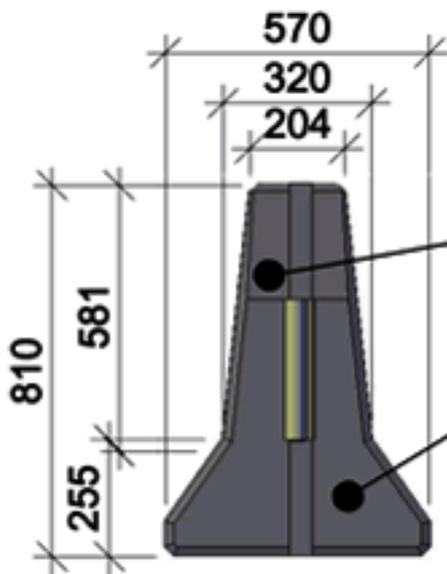
The information on physical and chemical characteristics is based upon tests believed to be reliable. The values are intended only as a source of information. A legally binding guarantee of specific properties is not to be inferred from our specifications. They are given without guaranty and do not constitute a warranty. A weight variance of +1/-2 is acceptable. The purchaser should independently determine, prior to use, the suitability of this material for his/her specific purpose. (Data represents averages and is not intended for use as a specification.)

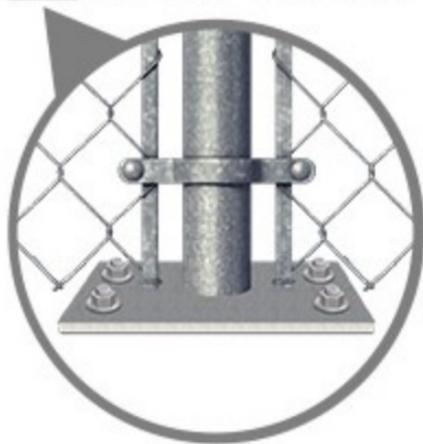




SHAW PIPE TO STENCIL END
OF UNITS WITH:

- MANUFACTURE DATE
- SHAW PIPE LOGO
- **J-J HOOKS[®]** LOGO





Appendix F
Project Information Board

Building 'A' - Multi-Unit Residential & Commercial
2710 Agricola Street, Halifax, NS



Construction Period - July 2020 to August 2022

Owner & Contractor:

Boston Developments

50 Bedford Highway, Halifax, NS, B3M 2J2

Contact: Boston Ghosn - (902) 880-1877

24 Hour Emergency Contact: Jeremy Ghosn - (902) 830-7255

Traffic Control:

Frontline Traffic Services

6 Belmont Avenue, P.O. Box 89, Eastern Passage, NS, B3G 1M7

Contact: Phil Pruneau - (902) 818-5548

Appendix G
Sample Safety Signage

DANGER

**CONSTRUCTION
SITE**

NO TRESPASSING

DANGER

**DO NOT ENTER
HAZARDOUS AREA
AUTHORIZED
PERSONNEL ONLY**



CAUTION

**Personal protective
equipment required
beyond this point.**

Appendix H
Sample Monthly Project Update Letter



Boston Developments Ltd.
 50 Bedford Highway
 Halifax, NS
 B3M 2J2
 Bus: (902) 880-1877
 Email: bostonghosn@gmail.com

Date:

Re: Monthly Project Update Letter

This is to inform you that construction activities are ongoing for the 2710 Agricola Street Building 'A' Project. In the past month, the excavation was completed and the concrete footings and foundation walls have start construction. Next month, the Contractor plans to continue with this work and no street or service disruptions are expected at this time. Should you have any questions or concerns relating to this months expected work, please contact the 24 Hour Emergency Contact listed below:

Contractor: Jeremy Ghosn - Boston Developments - (902) 830-7255

Should any general questions or concerns arise throughout construction, please feel free to contact the undersigned. Thanks you for your interest in this project.

Yours Truly,
 Boston Developments

Boston Ghosn
 Owner
 (902) 880-1877

Appendix I
Sample Notification Letters & Map

Date:

To whom it may concern:

Re: Notification of Utility Disruption - 2710 Agricola Street, Halifax, NS

This is to inform you that proceed with construction activities and operations in your area, water service will be temporarily disrupted on August 15, 2020 from approximately 9:00 am to 4:00 pm.

Should you have any questions or concerns, please contact:

Contractor: Jeremy Ghosn - Boston Developments - (902) 830-7255 (24 Hour Emergency Contact)

Thank you,
Boston Developments

Boston Ghosn
Owner
(902) 880-1877



Dear Neighbors:

Re: Notification of Construction - 2710 Agricola Street, Halifax, NS

This is to inform you that we will be beginning the demolition and construction of a new 7-storey (68-unit) mixed-use building with one level of underground parking on the former Timer Lounge property located at 2710 Agricola Street. This development has been approved through the development agreement process by Halifax Regional Municipality and demolition of the existing building will begin shortly with construction to be completed within two years. We apologize ahead of time for the noise we will be making during the construction of the new building and will try to complete construction as quickly and safely as possible.

Our typical work hours will be:

- Monday to Friday 7:00am to 7:00pm
- Saturdays 8:00am to 5:00pm
- Sundays (if required) 9:00am to 5:00pm

For public safety during construction, we have obtained approval to close the public sidewalk in front of the development on Agricola Street and install a temporary sidewalk within the travel way. Also, May Street will be temporarily converted to a single lane, one-way street from Agricola to Fern Lane. The sidewalk along May Street directly in front of the development will also be closed during construction. The encroachments will be delineated by interlocking F-type concrete barriers complete with opaque rigid fencing measuring a total of 2.4m high. These changes will move pedestrians away from the site along Agricola & May Streets while maintaining access to local businesses and residences. We have also implemented a rodent control plan which will be implemented 14 days prior to demolition of the existing structure.

We are working together with HRM staff to make sure that our construction management plan including pedestrian circulation, signage and traffic control adhere to applicable HRM bylaws and standards.

We thank you in advance for your patience and collaboration and should you have any questions or concerns, please feel free to contact me at (902) 880-1877 at any time during construction. If you cannot reach me, please contact Jeremy Ghosn (902) 830-7255.

Thank you,
Boston Developments

Boston Ghosn
Owner



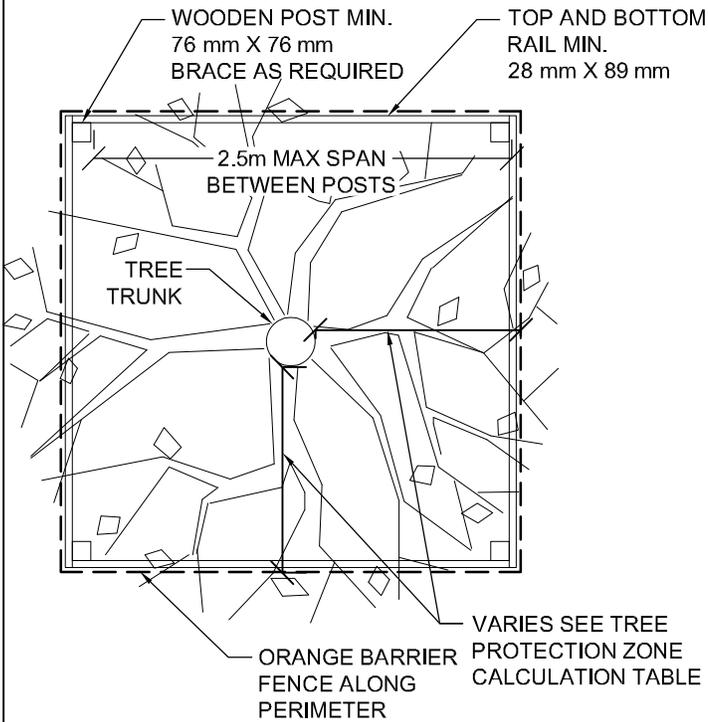
Appendix J
Hazard Assessments

VEHICULAR & PEDESTRIAN HAZARD ASSESSMENT

No.	Hazard:	Project	Vehicular Impacts:	Mitigation Methods:	Pedestrian Impacts:	Mitigation Methods:
1	Building Demolition	Demolition	Debris may fall off building, damaging vehicles.	Sidewalks adjacent to site will be closed which moves vehicles away from potential debris.	Debris may fall off building, injuring pedestrians.	Sidewalks adjacent to site will be closed which moves pedestrians to opposite side of street.
2	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. Close adjacent sidewalks to project site, moving vehicles farther away from excavation.	Pedestrians may enter project site and fall down excavation.	Place concrete barriers complete with rigid fencing around areas accessible to pedestrians. Also, rigid fencing will be installed around property line.
3	Snow & Ice Clearing	All Phases	Vehicles may become stuck in snow or slip on ice.	The contractor shall remove all snow within loading areas and will not dump onto public property or HRM ROW.	Pedestrians may become stuck in snow or slip on ice.	Adjacent sidewalks will be closed and no temporary sidewalks installed. Therefore, no additional measures required by contractor. However, area within site to be maintained to protect workers
4	Construction Waste	All Phases	Vehicles may strike or be struck by construction waste.	The contractor shall keep the project site and surrounding areas clean and free of construction debris	Pedestrians may strike or be struck by construction waste.	The contractor shall keep the project site and surrounding areas clear and free of construction debris
5	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.
6	Heavy Machinery Operation	All Phases	Heavy machinery or vehicles may break down or overturn, damaging other vehicles. 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. Concrete barriers will be installed to separate construction vehicles from public traffic. 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 break down or overturn, injuring pedestrians. 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. Rigid fences will be installed to separate construction vehicles from pedestrians. The contractor shall maintain safe distances between pedestrians, vehicles, and heavy machinery and ensure travel routes are kept flat.
7	Project Site Lines	All Phases	Fence and signs may impact vehicular site line visibility.	Fences will be curved such that vehicles can see around corners at intersections. Signs will not extend into vehicle or pedestrian routes.	Fence and signs may impact vehicular site line visibility causing drivers to be unaware of pedestrians.	Fences will be curved such that vehicles can see around corners at intersections. Signs will not extend into vehicle or pedestrian routes.
8	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, CMP renderings, wayfinding signs, etc. 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.
9	Dangerous Materials	All Phases	Flammable, explosive, & hot materials may damage vehicles if	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.
10	Hoisting Operations	Superstructure	Hoisted items 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.	Hoisted items may fall from heights and injure pedestrians.	Proper hoisting and lifting techniques will be used to ensure that materials do not fall from heights. Pedestrians will be moved to opposite sides of street from the project site such that loads are never suspended above the public realm.
11	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.
12	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. Adjacent sidewalks will be close.

Appendix K
Tree Protection Detail

PLAN VIEW

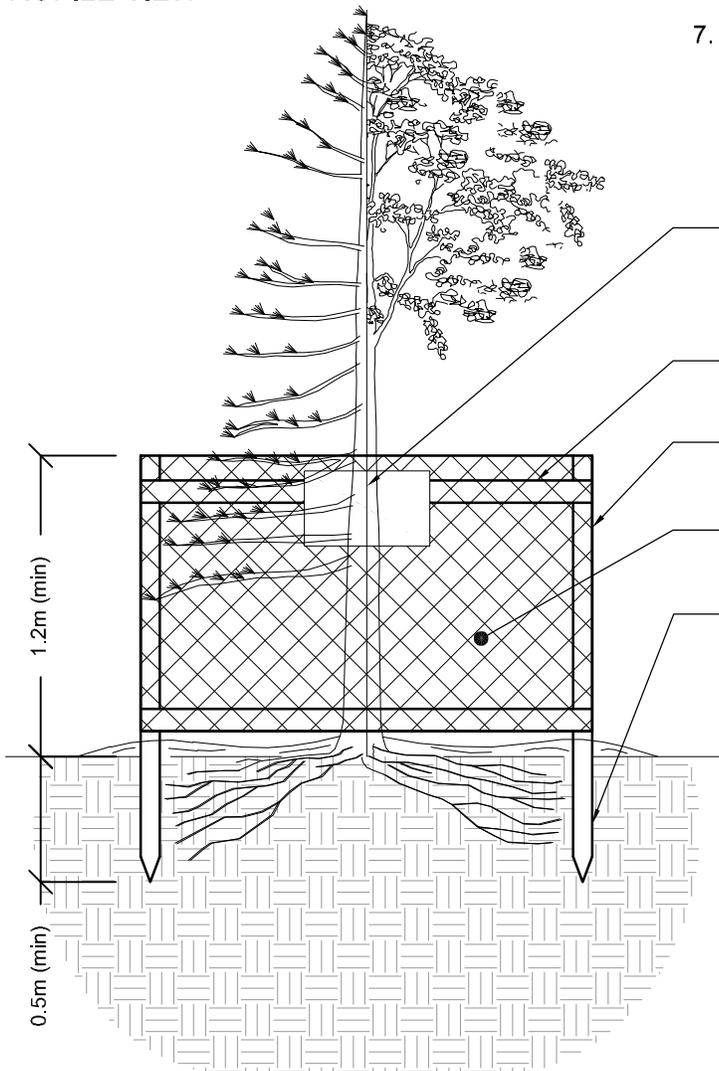


TREE PROTECTION ZONE CALCULATION TABLE	
TRUNK DIAMETER (DBH)	MINIMUM PROTECTION DISTANCE REQUIRED (MEASURE FROM THE OUTSIDE EDGE OF TREE TRUNK)
10 CM & UNDER	1.2 METERS
11 - 30 CM	2.0 METERS
31 - 40 CM	3.4 METERS
41 - 50 CM	4.6 METERS
51 - 60 CM	6.0 METERS
61 - 70 CM	7.0 METERS
71 - 80 CM	8.0 METERS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

PROFILE VIEW



HALIFAX

STANDARD DETAIL

TREE PROTECTION ZONE & BARRIER

DATE: 2019	REFERENCE:	APPROVED
SCALE: NTS		FIG NO:

Appendix L
Rodent Control Plan



July 15, 2020

Boston Developments Ltd.
50 Bedford Highway, Suite 300
Halifax, N.S. B3M 0J9
Attn: Jeremy Ghosn
Re: 2710 Agricola St. Rodent Control Plan

Dear Jeremy,

Please be advised that Starfish Demolition has set up a rodent control program for the demolition of 2710 Agricola St. This program will employ a local rodent control service to provide a bait and trapping program during the demolition of the existing building.

Starfish Demolition will employ Truly Nolen Pest Control to provide these services. The contact there is Mark Chapman at 902-201-1238.

The service will begin prior to building demolition and be regularly monitored and serviced until the building has been demolished.

Please contact me if you require anything further.

Thanks

Original Signed

mark byrden/
Contracts Manager
Starfish Demolition and Services.

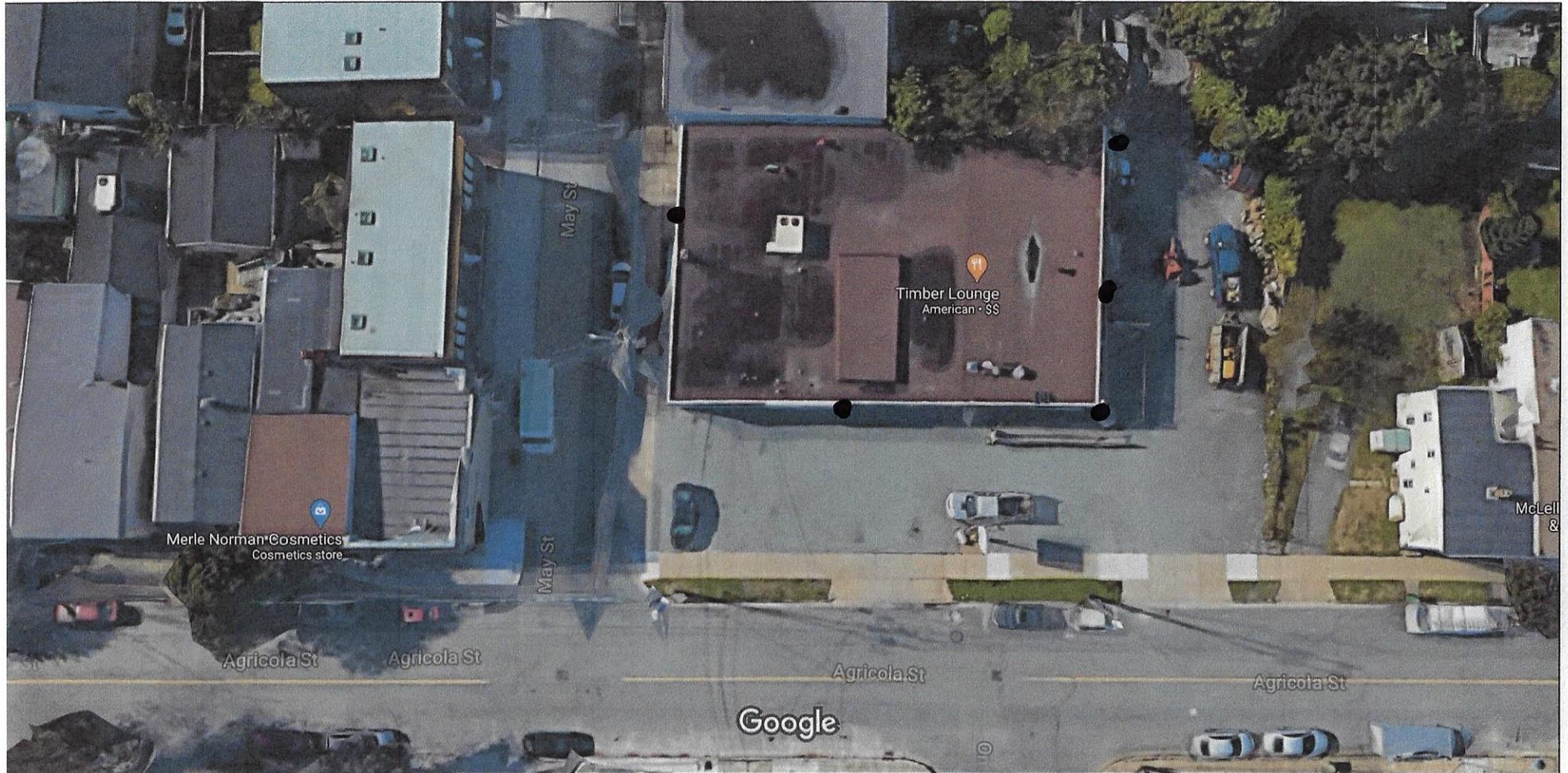


Rodent Control Plan for 2710 Agricola Street

The following will be done as a rodent control program for the demolition of 2710 Agricola Street, Halifax N.S.

1. Employ Truly Nolen pest control services to perform all rodent control activities. The contact for Truly Nolen is Mark Chapman. The contact number is 902-201-1238.
2. Truly Nolan will start a bait and trap program 14 days prior to building demolition. Traps will be set on July 27, 2020.
3. Traps will be placed around existing exits and areas that rodents may frequent. Please see attached map showing trap locations.
4. Traps will be monitored on August 10th, 2020 and August 24th, 2020 or until the building has been demolished.

Google Maps 2710 Agricola St



Imagery ©2020 Google, Map data ©2020, Map data ©2020 5 m

● - TRAP LOCATION