

MILLS DEVELOPMENT

Spring Garden Road,
Birmingham Street & Queen Street

Excavation and Construction

Prepared by Geoff MacLean, P.Eng.

Job No. 35587

CONSTRUCTION MANAGEMENT PLAN

REVISION #	DATE	DESCRIPTION
0	APR 2021	ISSUED FOR REVIEW



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This CMP was prepared by G.K. MacLean, P.Eng.
in consultation with the developer, contractor, traffic control company and HRM.

Section 1: Introduction

1.1: Project Description and Objectives

Westwood Developments is planning to redevelop the lands located between Spring Garden Road, Queen Street and Birmingham Street known as the Mills Block due to a former building use. The land previously housed six buildings situated on 8 lots which will be consolidated. The planned development will be a 7 level 180-unit multi residential building with a few 2 level townhomes, 31,520SF. of commercial space on 2 levels and 2 levels of underground parking. This CMP has been prepared to address the excavation, services and building construction.

As noted, the construction site is located on the block of Spring Garden Road between Queen Street and Birmingham Street. Across to Birmingham Street, west of the project is a commercial building housing businesses' such as Sleep Country and the Bank the Montreal, to the north a mixture of commercial buildings such as the Bond Building, to the east Halifax Central library and to the south the MaryAnn, a mixed residential and commercial building. All neighboring properties will remain undisturbed throughout construction and all neighbours will be notified and updated on construction ahead of time.

Where the building is planned to be set at the street line and where HRM is proceeding with their adjacent Spring Garden Road Streetscape Project while the Mills Block project proceeds, project encroachments are planned in 3 phases.

- Phase 1 – During site excavation, we anticipate the project requiring the sidewalk hoarded off on the adjacent streets while a portion of Queen Street be utilized as a layby accessing the project site. Along Spring Garden Road, a temporary protected on street sidewalk for pedestrian use around the project is planed, while on Birmingham pedestrians will be encouraged to use the sidewalk opposite the site with a temporary protected on street sidewalk positioned in front of Banc's construction site. Pedestrians will be encouraged to cross Birmingham Street at an unmarked crosswalk opposite the Mary Anne Building's parkade entrance. This will result in a narrowed street on Birmingham while maintaining one-way traffic. Where on Queen Street with the closed sidewalk and on street construction truck layby; pedestrians will be encouraged to cross Queen Street to utilize the sidewalk opposite. This will require an altered road centreline on Queen Street while maintaining two-way traffic on Spring Garden Road and Queen Street.
- Phase 2 – Once HRM's Spring Garden Road project begins the protected-on street pedestrian sidewalk on Spring Garden Road will be removed to make way for this street work. We also anticipate that Banc's building project will no longer require their sidewalk encroachment on Birmingham Street. This will open the sidewalk opposite the site and allow for a second site access with layby on Birmingham Street. We are anticipating concrete operations will be stationed at both the Birmingham and Queen Street laybys. With the sidewalk open opposite the site, the layby will be positioned to maintain one-way traffic on Birmingham Street.
- Phase 3 – After HRM's Spring Garden Road improvements have be completed we understand that a protected on-street sidewalk will be required along Spring Garden Road. This will allow pedestrian traffic around the encroachment while maintaining two-way traffic along Spring Garden Road.

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	Westwood Construction Limited	Jamie Haddad	5881 Spring Garden Road, Suite 100, Halifax, NS, B3H 4S3	(902) 209-3235 24 Hr Emergency Contact
Site Contractor	Dexter Construction	Nick Wilson	Rock Lake Drive, Bedford, N.S., B4A 3Z2	(902) 209-2902
Traffic Control Company	Eastern Traffic Services	John Smith	Rock Lake Drive, Bedford, N.S., B4A 3Z2	(902) 209-2902
Rodent Control Company	Rentokil Pest Control		51 Duke Street, Bedford, NS B4A 2Z2	(902) 835-2304

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	Feb 15, 2021	-	Jul 1, 2021	4.5 Months
Demolition	complete	-	complete	n/a
Excavation	Mar 1, 2021	-	Jul 31, 2021	5 Months
Substructure	Jul 1, 2021	-	Dec 1, 2021	5 Months
Superstructure	Dec 1, 2021	-	Jun 15, 2023	17.5 Months
Flat Works	May 1, 2023	-	Jun 1, 2023	1 Month
Service Install & Abandonments	Aug 1, 2021	-	Aug 30, 2021	1 Month

2.2: Key Dates

- Take-over of encroachment: Mar 1, 2021
- Finish encroachment: April 1, 2023
- Duration of encroachment: 26 months
 - Phase 1: March 2021 -July 2021
 - Phase 2: July 2021-December 2021
 - Phase 3: December 2021-April 2023
- Temporary Road Closures:
 - Crane Installation: July 17-18, 2021
 - Service work: August 7-8, 14-15 & 28-30 2021 (weekends only)
 - Crane removal: April 22-23, 2023

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: (Weekend only)

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:

- a) HRM Design Guidelines
- b) HRM Standard Details
- c) S-300 Streets;
- d) E-200 Encroachments;
- e) B-201 Building;
- f) N-200 Noise;
- g) T-600 Trees;
- h) S-900 Controlled Access Streets;
- i) T-400 Truck Routes;
- j) W-101 Discharge into Public Sewers;
- k) B-600 Blasting; and
- l) HRM TCM Supplement.
- m) G-200 Grade Alteration and Stormwater Management
- n) Admin Order 2018-005-ADM regarding encroachments
- o) Admin Order 2020-010-OP regarding stormwater management standards for development activities

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 (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

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

We are proposing an altered centreline along Spring Garden Road during phase one and on Queen Street throughout all phases of construction. Two-way vehicular traffic will be maintained along Spring Garden road and Queen street. One-way vehicular traffic will be maintained on Birmingham street with a proposed narrowed street construction activity. Only during installation of the tower crane, service work, and removal of the tower crane are temporary road closures anticipated, with stop and go traffic controlled by on site personnel. These road closures are anticipated to be short duration during pipe work installation, crane installation and crane removal while respecting peak hour traffic restrictions.

Please refer to the appendices for required traffic control plans.

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 and construction vehicles will enter and exit the site at the gate locations or removable fence which will be clearly marked for function.

Material and concrete deliveries shall be contained within the encroachment area. We anticipate delivery trucks backing into the encroachment via the south gates on Birmingham and Queen Streets. Please refer to the concrete delivery schematic within the appendix.

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. Refer to sample notification letter in the appendix.

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

Existing metered on street public parking spaces will be removed adjacent to the project on Birmingham and Queen Streets. On street parking will not be affected by these phases of the project.

It is noted that passenger vehicles are not permitted to park within any encroachment areas.

To minimize parking requirements in adjacent neighbourhoods, on-site workers will rent parking spaces from the adjacent parkade structures and workers will be encouraged to carpool or rely on public transit. Once the project's underground parkade has been constructed, some on-site workers will park in the parkade.

No new public parking is proposed as part of this project resulting in a temporary public parking net loss.

4.6: Bus Stops

Bus service that travels along Spring Garden Road will not be affected by this project, and there is no bus service that travels along Birmingham and Queen streets in the vicinity of the project site.

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) has been prepared by the traffic control company and is provided in the appendix.

Throughout excavation and construction, the project will close all sidewalks and a portion of the street lane on Birmingham and Queen Streets in front of the development. This is to ensure that limits of excavation and building construction and deliveries are a safe distance from pedestrians with an alternate sidewalk across the street access at the intersections of Queen, Clyde and Birmingham. Temporary protected on street sidewalks will be used to maintain pedestrian traffic around the project.

5.1: Pedestrian Protection

Pedestrians will be protected by distancing them from the project, F-type concrete barriers with plywood and open rigid fencing mounted above shall delineate the encroachment area. F-type concrete jersey barriers will also be positioned on the street demarking the protected on-street sidewalk separating the pedestrians from vehicle traffic. Refer to the appendix for examples of the barriers.

5.2: Pedestrian Safety

Pedestrian safety will be maintained by implementing appropriate signage as shown on the PMP. 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. Sawhorse barriers will incorporate lower cross members, painted and marked consistent with the rest of the sawhorse, these added cross members will be placed near the ground to aid visually impaired persons using a cane. 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 through the pedestrian route.

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.

5.7: Pedestrian Management Plans Rendering (PMPR) Signage

The need for a rendered map displayed for pedestrians showing the detoured pedestrian routes are anticipated for this project given that the commercial nature and typical pedestrian volumes in this area.

5.8: Pedestrian Detour Wayfinding Signage

The need for pedestrian wayfinding signage directing pedestrians to adjacent businesses are anticipated for this project given the location.

Section 6: Encroachments & Disruptions

For public safety during site excavation and building construction we are proposing that the project compound incorporate the public sidewalk directly in front of the project site and a portion of the street lane on Queen Street (Phase 1) and Birmingham (Phase 2). These will work in conjunction with the neighbouring construction projects; once HRM's Streetscaping project starts we understand the street work will require this area. Similarly, we understand that Banc's Birmingham project will reopen the sidewalk opposite the project site. This will move pedestrians to the opposite side of the street. In the meantime, temporary protected on street sidewalks will allow pedestrians to pass around the project on Spring Garden Road and Birmingham Street. The encroachment is planned to be delineated by interlocking concrete jersey barriers complete with a combination of solid plywood fencing and open rigid fencing at intersections. Concrete jersey barriers will delineate the on-street sidewalks.

Throughout the project, fencing will not obstruct vehicle sight lines by using open fencing in these areas.

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

The site's buildings were previously demolished prior to lot consolidation. This CMP does not speak to demolition.

6.2: Site Excavation

This includes the excavation and removal of common site material. If bedrock is found, the contractor will apply for a blasting permit and adhere to the HRM blasting by-law and conditions of the blasting permit. Alternatively, if a blasting permit can not be obtained the site's bedrock will be broken by a series of rock breakers to reach footing elevation.

6.3: Site Services Connection

This includes installation of new water and sewer laterals to their respective mains as well as decommissioning existing laterals which will be abandoned and capped. The service installs will require modifications to the encroachment with temporary workplace signage incorporated (refer to the Service Installation Traffic Control Plans (TCP) in the appendix), we are anticipating that the street will need to be closed to through traffic during these service installs. 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. A sample notification letter is included in the appendix.

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. HRM reinstatement specifications must be met, and the travel way must be hard surfaced prior to reopening to the public. 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

All departures from the CMP regardless of the significance must be submitted to the Municipality 10 days in advance for review and approval. 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

Existing sidewalks within the encroachment area will be completely replaced. It is anticipated that sidewalks across the street will not 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 curbs, gutters, and sidewalks 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 landowner acknowledges that items may require to be fully replaced rather than repaired. The landowner also acknowledges that any costs incurred to repair or replace this public infrastructure are the responsibility of the owner. For reinstatement timeline requirements, it is noted that 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 of the following construction season.

7.2: Protection of Trees

There are existing street trees on Spring Garden and Birmingham in the public right-of-way directly adjacent to the project site. These HRM street trees are proposed to be removed as part of this project with new reinstated in consultation with HRM Urban Forestry. 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). Refer to HRM tree protection detail in the appendix.

7.3: Line Painting and Temporary Crosswalks

A temporary altered centerline is proposed on Queen Street and a portion of Spring Garden Road for this project. Refer to the line painting plan in the appendix.

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. Rock pads will be installed and maintained at all site entrances behind the curb line to knock dirt free from truck tires with aim to reduce off tracking of site soils. Where the developer plans to utilize the roadway for their encroachment the developer is responsible to clear snow from the street side of the jersey barriers.

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 dust control covering, upper levels of the new building will be regularly cleaned, and loose items throughout the project site will be secured when not in use.

7.6: Storm Water Management

During construction, nearby catch basins may be fitted with filter fabric to prevent debris from entering the storm system. Stormwater collected inside the project site will be directed to temporary stormwater settling ponds situated within the building footprint to allow clean water to be pumped into the existing public sewer systems in accordance with HW regulations and HRM By-law W-101 complete with appropriate fees to Halifax Water (HW). Sediment ponds may be shifted and positioned as desired by the site contractor during mass excavation however will generally be placed in localized low points within the building excavation.

7.7: Noise, Dust and Emission Control

The contractor will at all time 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.

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 will 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.

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 will engage a rodent control company, to utilize the established 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 will be engaged two weeks prior to the commencement of site excavation to help to lower the number of active rodents in the project area. Bait stations will be positioned along existing buildings and fence lines prior to excavation. Bait stations will be positioned along the edges of the project and 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 and Fences

The encroachment will be delineated using concrete F-type jersey barriers complete with rigid fencing and plywood secured to the jersey barriers, total height of concrete barrier and fencing structure will be 1.8m or 6ft as per the noted administrative order. This fencing will be open or covered with plywood of high quality which will extend a minimum 3m from the public right-of-way. This plywood will block passersby or tourists view of the construction site. Construction traffic will utilize the proposed gates, gate will not be screened for safety reasons.

Along the private sidelines where non-vehicular traffic is present, the hoarding will be delineated by weighted modular 1.5m (5ft) high fencing or existing fencing where it is at least 1.5m tall. All fencing will have dust control mesh and must be anchored down to prevent unintentional movement or overturning due to snow or wind loads. It is noted that this fencing shall **not** be anchored to the sidewalk, **nor** shall the legs of the modular fencing extend onto the sidewalk as this creates an unacceptable tripping hazard which must be avoided. Throughout the project, fencing will be situated to not obstruct vehicle sight lines.

The F-type barriers and fencing that define the encroachment will adhere to the Encroachment Plan which is to scale includes dimensions and can be found in the appendix. These areas can be measured for the administering of applicable fees. Encroachment areas and fees will be based on the areas within the public right-of-way enclosed by the barriers and fencing.

It is noted that barriers can not be installed with a blunt end facing traffic, jersey barriers must be angled or tapered facing traffic to avoid this blunt end facing traffic.

Installation of F-Type concrete barriers, fencing and plywood covering will take place during regular working hours as noted above. This work will be scheduled by the contractor after the HRM's pre-construction meeting has been held. HRM will coordinate this pre-construction meeting; the developer, contractor and traffic control company will attend this site meeting. During the process of erecting and tearing down the traffic barriers, fencing and plywood covering defining the encroachment, traffic control elements will be implemented as per the Traffic Control Plan(s) in the appendix. All work and any traffic interruptions will be coordinated by the contractor who will notify HRM a minimum of 5 business days before work is scheduled to begin.

8.2: Snow Removal

The developer will be responsible to remove snow and ice as required to ensure that emergency access is maintain to the project site, this includes fire hydrants. The contractor will not dump snow or ice onto adjacent property and will truck snow off site as required to prevent the unsafe build-up of snow piles. The contractor will clear snow from outside the jersey barriers to keep the edge of the vehicle travel lane free and clear of snow and ice build up.

8.3: Gate Access and Egress

The site will be accessible through gates. These gates are the only locations that will receive equipment/materials during construction, gates will remain closed and will be locked at all times after work hours. In cases of emergencies, on-site workers will exit the project site through these gates. These gates will remain unlocked at all times when workers are on site in case of emergency allowing unrestricted emergency response units access to the site.

Construction access gates are planned to be stationed at each end the encroachment to facilitate deliveries. Gates are to swing into site, remain closed when not in use and locked after hours. Gates are anticipated to be aligned to allow for traffic flow through the encroachment in line with street traffic on Birmingham Street.

Any existing fire hydrants located adjacent to the site will remain protected from construction activities. These fire hydrants, along with the existing and proposed fire department connections (Siamese connections) will be accessible to firefighters throughout all phases of the project. Adjacent existing hydrants and fire department connections are not anticipated to be affected by construction.

8.4: Hoarding Aesthetics

The site hoarding will resemble that shown in the appendix; advertisements and banners will be incorporated to facilitate encroachment fee reductions.

8.5: Sight Lines

Rigid fencing, plywood and signage will be installed as per the CMP drawings such that vehicle sight lines are maintained around corners.

8.6: 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 the fencing; refer to the appendix for a copy of the Project Information Board and the Encroachment Plan for the planned locations. Refer to the signage specification within the appendix describing the required size, materials, mounting hardware, etc. of these signs.

Section 9: Lifting, Hoisting, and Crane Operations

9.1: Crane Use Overview

This project will incorporate a tower crane, this crane 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. The approximate location of the crane tower is shown in the appendix.

It is anticipated that the crane will be assembled and disassembled from within encroachment area.

The crane swing will extend over neighbouring properties the developer will notify these property owners prior to extending the crane over their properties. Refer to the appendix for crane information.

In addition, concrete pump trucks, boom trucks and/or mobile crane trucks will be brought to site to accommodate lifting and hosting materials to upper levels. These trucks will be stationed within the encroachment (see concrete delivery schematic within the appendix) and will be operated under the direct supervision of a licensed crane operator.

Please note at no times shall a crane lift loads over the public realm, roads, sidewalks, etc. outside the encroachment area.

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.

9.3: Aerodromes

There are several heliport approaches in the Halifax region; both Emergency Hospitals (QEII and IWK) as well as Point Pleasant Park. Given the location of the project site relative to these various approaches we understand Transport Canada notice does not 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 coordinated by the delivery companies and site personnel, trucks will be housed within the encroachment as it is planned to accept two concrete delivery trucks side by side within the hoarding limits.

10.3: Emergency Access & Egress

The site will be accessible through gates to facilitate construction vehicle access. This gate is the only locations that will receive equipment/materials during construction. In cases of emergencies, on-site workers will exit the project site through these gates. These gates will remain closed and 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 required 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

Adjacent existing fire hydrants will remain outside the project area and 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.

The proposed fire department connections are not active at this stage of the project. These 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: Pre-Construction Consultation & Meeting

11.1: Pre-CMP Community Consultation

Due to the current pandemic, the developer will forego the community consultation meeting. A construction notification letter will be delivered to the properties neighbouring the construction site as well as HRM staff, notifying them of the expected work with contract information for questions and feedback. As part of this notification the surrounding community and businesses will be offered to sign up for a monthly construction project notification from the development. It is understood, HRM requires a confirmation letter from the applicant confirming delivery of notification letters to affected residents. A map indicating these properties has been included in the appendix.

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 the fencing; refer to the appendix for a copy of the Project Information Board and the CMP Plan for the planned locations. 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 advise 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

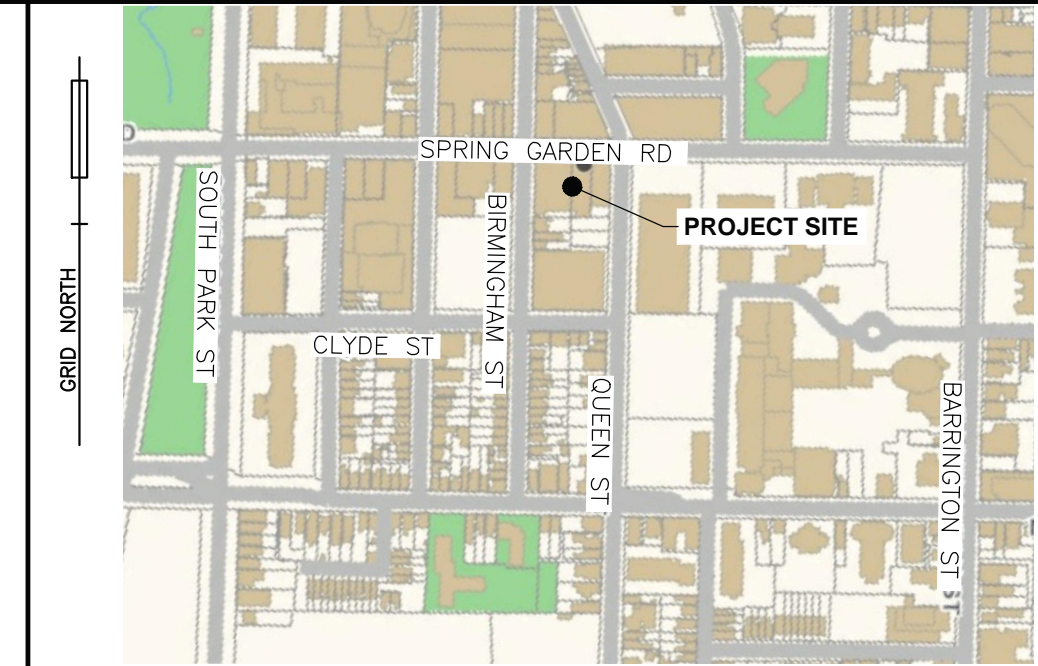
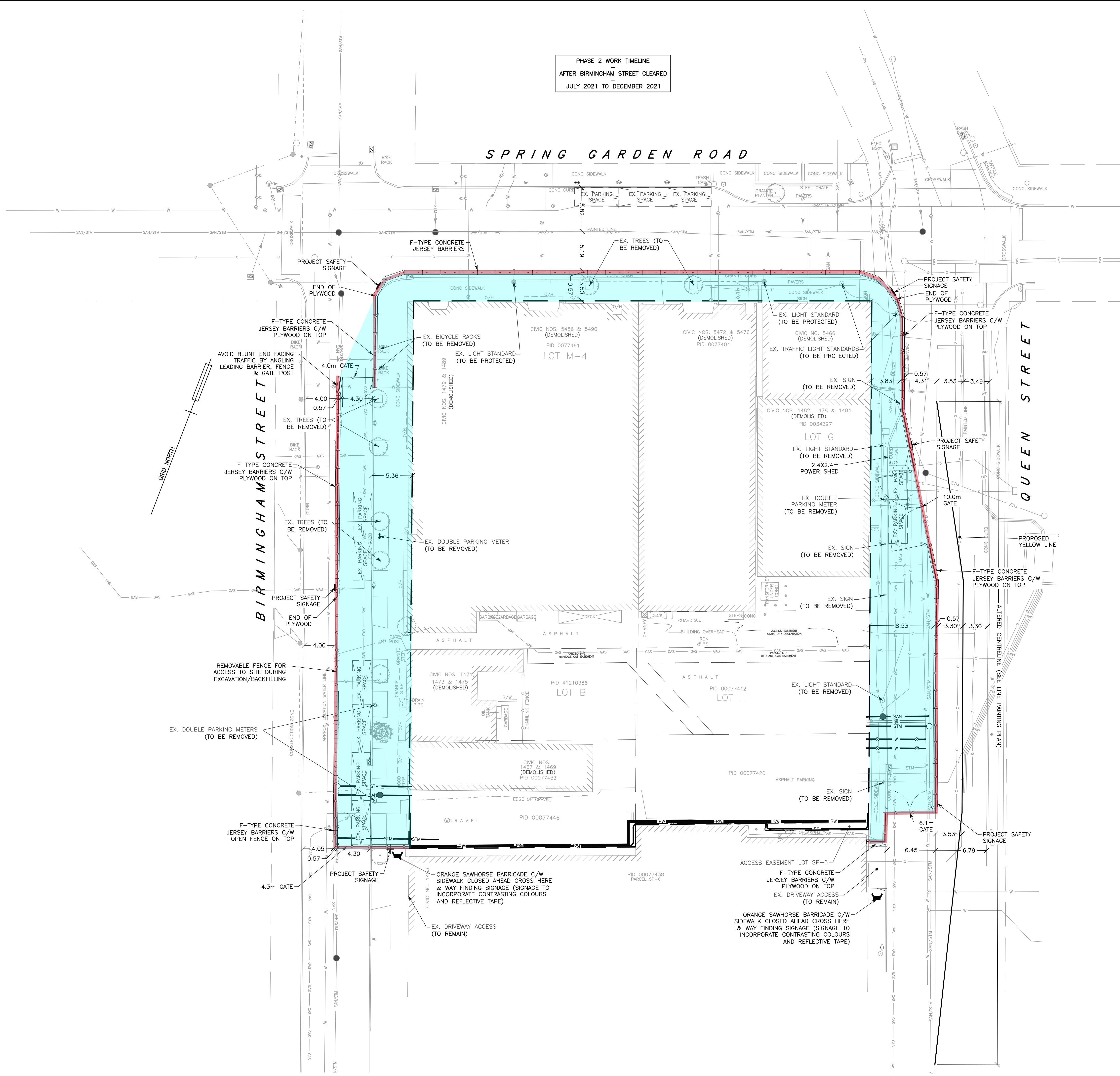
Z:\SDMM\35000-35999\35550\35587\CMP\Mills Development - Excavation - CMP(IFR) - 35587.docx

APPENDIX

Appendix A – Encroachment Plan

- A1 - Phase 1 Encroachment Plan
- A2 - Phase 1 Encroachment Plan with HRM's Streetscape Red Overlay
- A3 - Phase 2 Encroachment Plan
- A4 - Phase 2 Encroachment Plan with HRM's Streetscape Red Overlay
- A5 - Phase 3 Encroachment Plan
- A6 - Phase 3 Encroachment Plan with HRM's Streetscape Red Overlay

PHASE 2 WORK TIMELINE
AFTER BIRMINGHAM STREET CLEARED
JULY 2021 TO DECEMBER 2021



LEGEND		
EXISTING		PROPOSED
25.0	CONTOUR LINE	25.0
⊙/⊙BF	CURB STOP/GATE/BUTTERFLY VALVE	⊙/⊙BF
⊙	FIRE HYDRANT	⊙
⊠	CONCRETE THRUST BLOCK	⊠
⊠	SIAMESE CONNECTION	⊠
⊠	CATCH BASIN/PIT	⊠
⊠	CULVERT	⊠
⊠	ROCK LINING/DAM	⊠
⊠	ROCK WALL/RETAINING WALL	⊠
⊠	POWER POLE & ANCHOR/LIGHT STANDARD	⊠
⊠	TREE	⊠
⊠	STREET SIGN/PARKING METER	⊠
⊠	ELEVATION/GRADE	125.00 / 125.00
⊠	TEST PIT	⊠
⊠	DRAINAGE/SWALE FLOW DIRECTION	⊠
⊠	WATER MAIN/SERVICE	⊠
⊠	SANITARY MANHOLE & PIPE	⊠
⊠	STORM MANHOLE & PIPE	⊠
⊠	COMBINED PIPE	⊠
⊠	GAS LINE	⊠
⊠	100YR. FLOOD LIMIT	⊠
⊠	GUARD RAIL	⊠
⊠	UNDERGROUND CONDUIT	⊠
⊠	OVERHEAD WIRES	⊠
⊠	PROPERTY LINE/BOUNDARY	⊠
⊠	FENCE	⊠
⊠	BUILDING	⊠
⊠	TOP OF SLOPE	⊠
⊠	TOE OF SLOPE	⊠
⊠	TREELINE	⊠
⊠	LIMITS OF DISTURBANCE	⊠
⊠	TACTILE PEDESTRIAN PLATES	⊠
⊠	PROJECT SAFETY SIGNAGE	⊠
⊠	ORANGE SAWHORSE BARRICADE	⊠

NOTES
1. THIS PLAN IS IN METRIC.

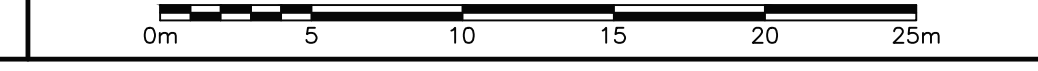
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No.	YY/MM/DD	Revision Description	Appr'd

SDMM
Servant, Dunbrack, McKenzie & MacDonald Ltd.
NOVA SCOTIA LAND SURVEYORS & CONSULTING ENGINEERS
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WEB: www.sdmm.ca

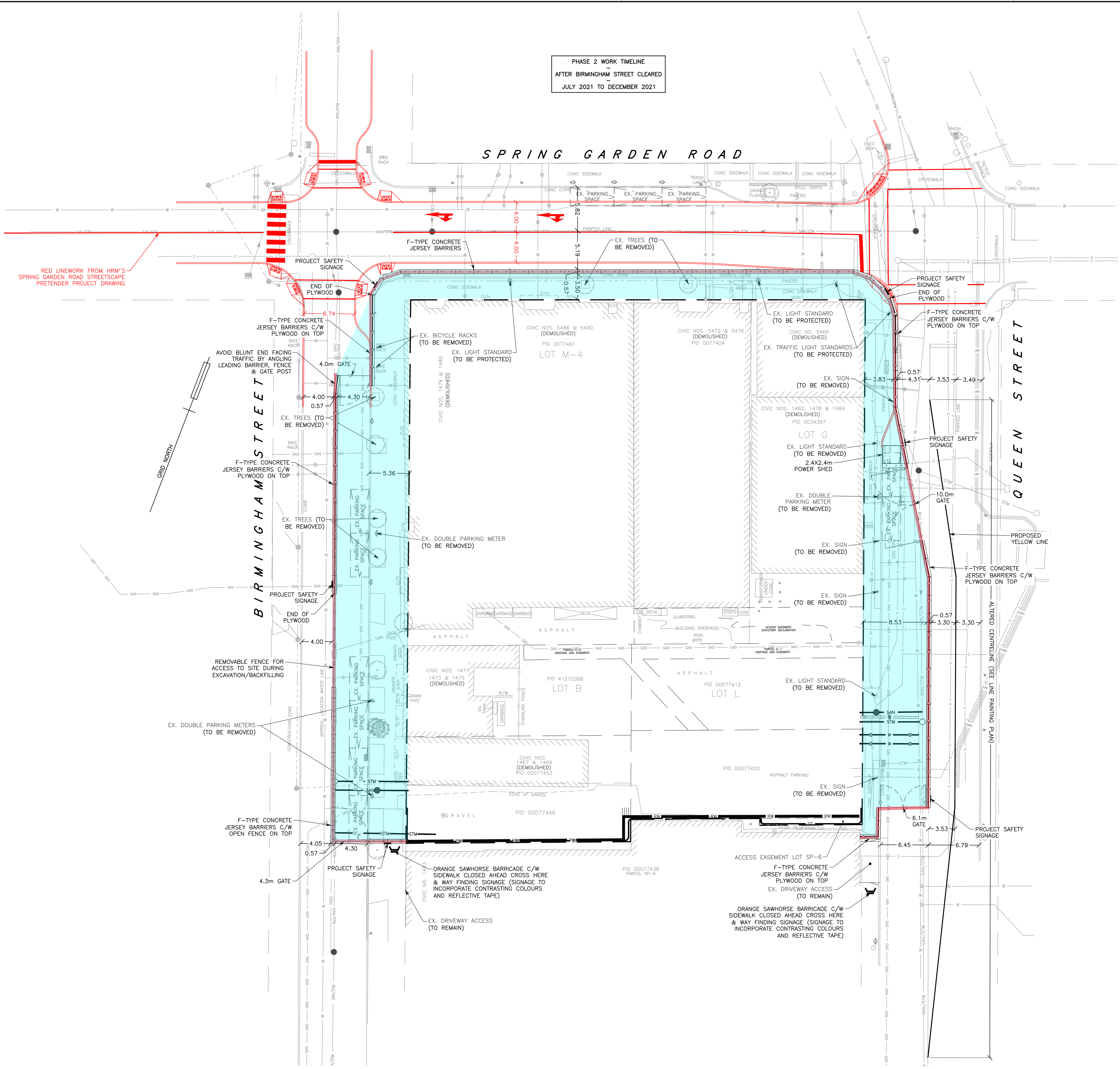
THE MILLS DEVELOPMENT
5486 SPRING GARDEN ROAD
HALIFAX, NOVA SCOTIA

PHASE 2 (CONCRETE OPERATIONS) ENCROACHMENT PLAN

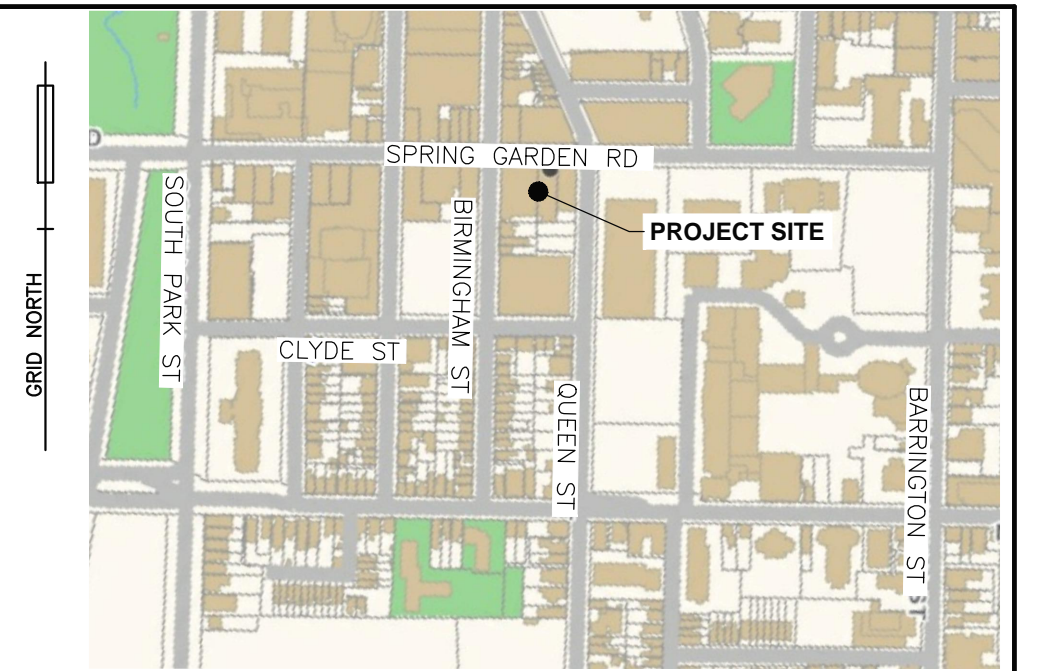
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Scale	Engineer	Plan No.
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Reference	Approved	Drawing Name
--	G. MACLEAN	
Surveyed	Sheet	
SDMM		R1B



PHASE 2 WORK TIMELINE
AFTER BIRMINGHAM STREET CLEARED
JULY 2021 TO DECEMBER 2021



RED LINEWORK FROM HRM'S
SPRING GARDEN ROAD STREETSCAPE
PRETENDER PROJECT DRAWING



LEGEND		
EXISTING		PROPOSED
25.0	CONTOUR LINE	25.0
⊙/⊙BF	CURB STOP/GATE/BUTTERFLY VALVE	⊙/⊙BF
⊙	FIRE HYDRANT	⊙
⊠	CONCRETE THRUST BLOCK	⊠
⊠	SIAMESE CONNECTION	⊠
⊠	CATCH BASIN/PIT	⊠
⊠	CULVERT	⊠
⊠	ROCK LINING/DAM	⊠
⊠	ROCK WALL/RETAINING WALL	⊠
⊠	POWER POLE & ANCHOR/LIGHT STANDARD	⊠
⊠	TREE	⊠
⊠	STREET SIGN/PARKING METER	⊠
⊠	ELEVATION/GRADE	125.00 / 125.00
⊠	TEST PIT	⊠
⊠	DRAINAGE/SWALE FLOW DIRECTION	⊠
⊠	WATER MAIN/SERVICE	⊠
⊠	SANITARY MANHOLE & PIPE	⊠
⊠	STM	⊠
⊠	STORM MANHOLE & PIPE	⊠
⊠	COMBINED PIPE	⊠
⊠	GAS LINE	⊠
⊠	100YR. FLOOD LIMIT	⊠
⊠	GUARD RAIL	⊠
⊠	UNDERGROUND CONDUIT	⊠
⊠	OVERHEAD WIRES	⊠
⊠	PROPERTY LINE/BOUNDARY	⊠
⊠	FENCE	⊠
⊠	BUILDING	⊠
⊠	TOP OF SLOPE	⊠
⊠	TOE OF SLOPE	⊠
⊠	TREELINE	⊠
⊠	LIMITS OF DISTURBANCE	⊠
⊠	TACTILE PEDESTRIAN PLATES	⊠
⊠	PROJECT SAFETY SIGNAGE	⊠
⊠	ORANGE SAWHORSE BARRICADE	⊠

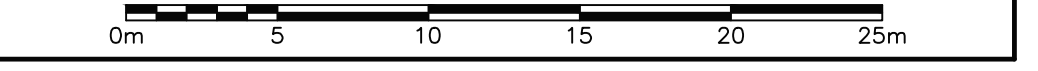
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0	21/02/03	ISSUED FOR REVIEW	
No.	YY/MM/DD	Revision Description	Appr'd

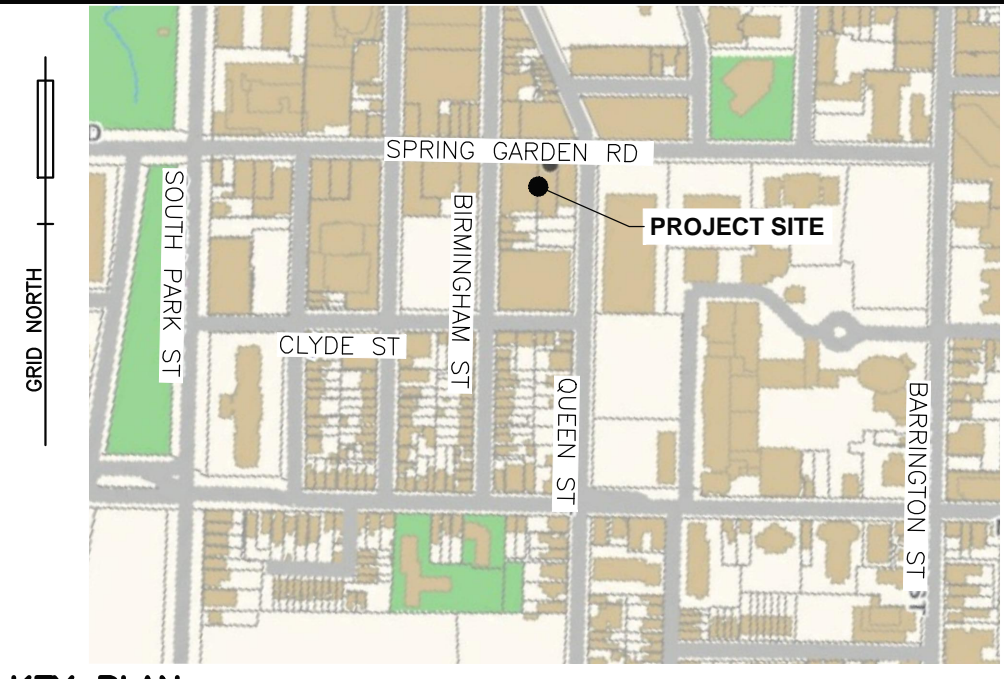
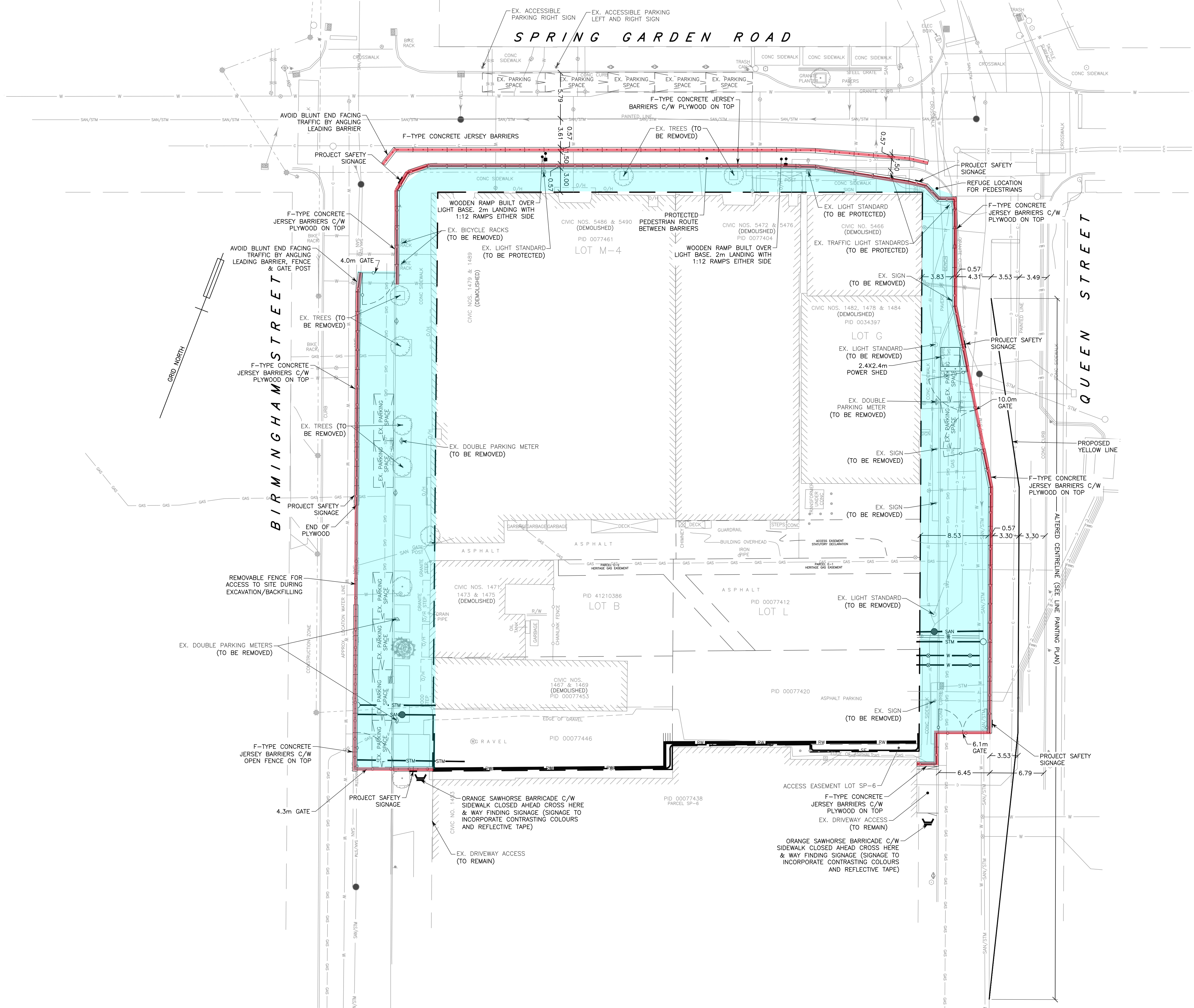


THE MILLS DEVELOPMENT
5486 SPRING GARDEN ROAD
HALIFAX, NOVA SCOTIA

PHASE 2 (CONCRETE OPERATIONS) ENCROACHMENT PLAN		
Date	Drawn	Project No.
FEBRUARY 3, 2021	C. PORTER	FILE NO. 1-1-130 (35587)
Scale	Engineer	Plan No.
1:250	G. MACLEAN	16-2464-0
Reference	Approved	Drawing Name
--	G. MACLEAN	
Surveyed	Sheet	
SDMM		R1B



PHASE 3 WORK TIMELINE
AFTER SPRING GARDEN ROAD STREETScape
WORK COMPLETE
DECEMBER 2021 TO APRIL 2023



LEGEND

EXISTING	LEGEND	PROPOSED
25.0	CONTOUR LINE	25.0
⊗/⊗BF	CURB STOP/GATE/BUTTERFLY VALVE	⊗/⊗BF
⊕	FIRE HYDRANT	⊕
▢	CONCRETE THRUST BLOCK	▢
⊕	SIAMSE CONNECTION	⊕
⊕	CATCH BASIN/PIT	⊕
—	CULVERT	—
⊕	ROCK LINING/DAM	⊕
⊕	ROCK WALL/RETAINING WALL	⊕
⊕	POWER POLE & ANCHOR/LIGHT STANDARD	⊕
⊕	TREE	⊕
⊕	STREET SIGN/PARKING METER	⊕
⊕	ELEVATION/GRADE	125.00 / 125.00
⊕	TEST PIT	⊕
—	DRAINAGE/SWALE FLOW DIRECTION	—
—	WATER MAIN/SERVICE	—
—	SANITARY MANHOLE & PIPE	—
—	STORM MANHOLE & PIPE	—
—	COMBINED PIPE	—
—	GAS LINE	—
—	100YR. FLOOD LIMIT	—
—	GUARD RAIL	—
—	UNDERGROUND CONDUIT	—
—	OVERHEAD WIRES	—
—	PROPERTY LINE/BOUNDARY	—
—	FENCE	—
—	BUILDING	—
—	TOP OF SLOPE	—
—	TOE OF SLOPE	—
—	TREELINE	—
—	LIMITS OF DISTURBANCE	—
—	TACTILE PEDESTRIAN PLATES	—
—	PROJECT SAFETY SIGNAGE	—
—	ORANGE SAWHORSE BARRICADE	—

NOTES

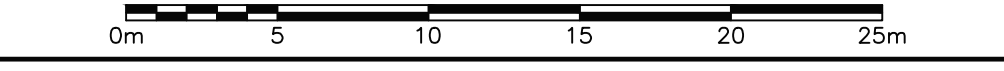
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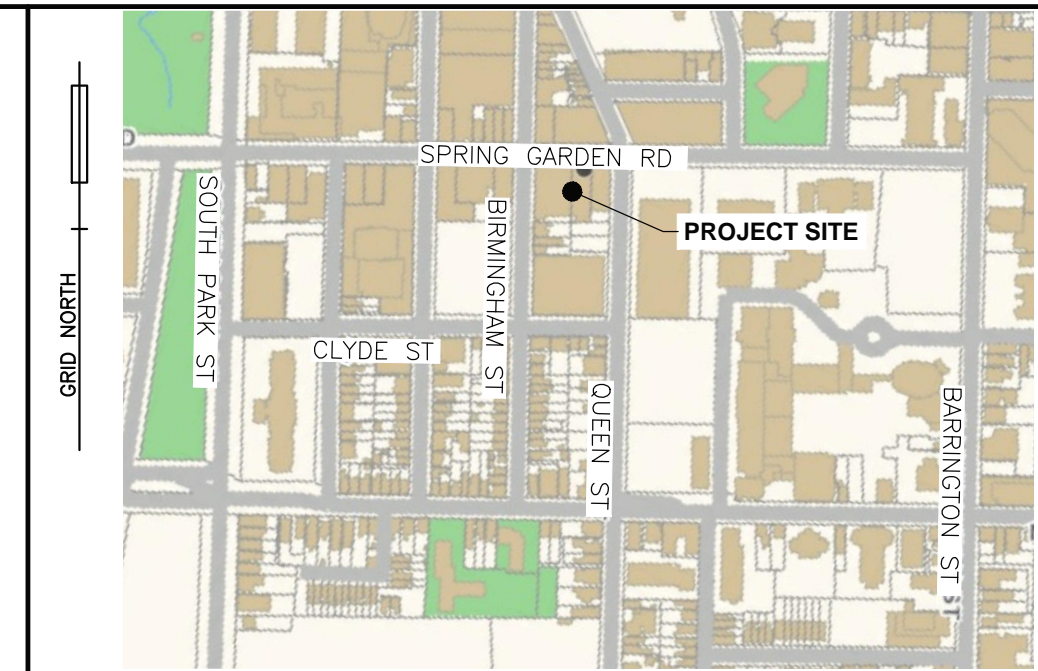
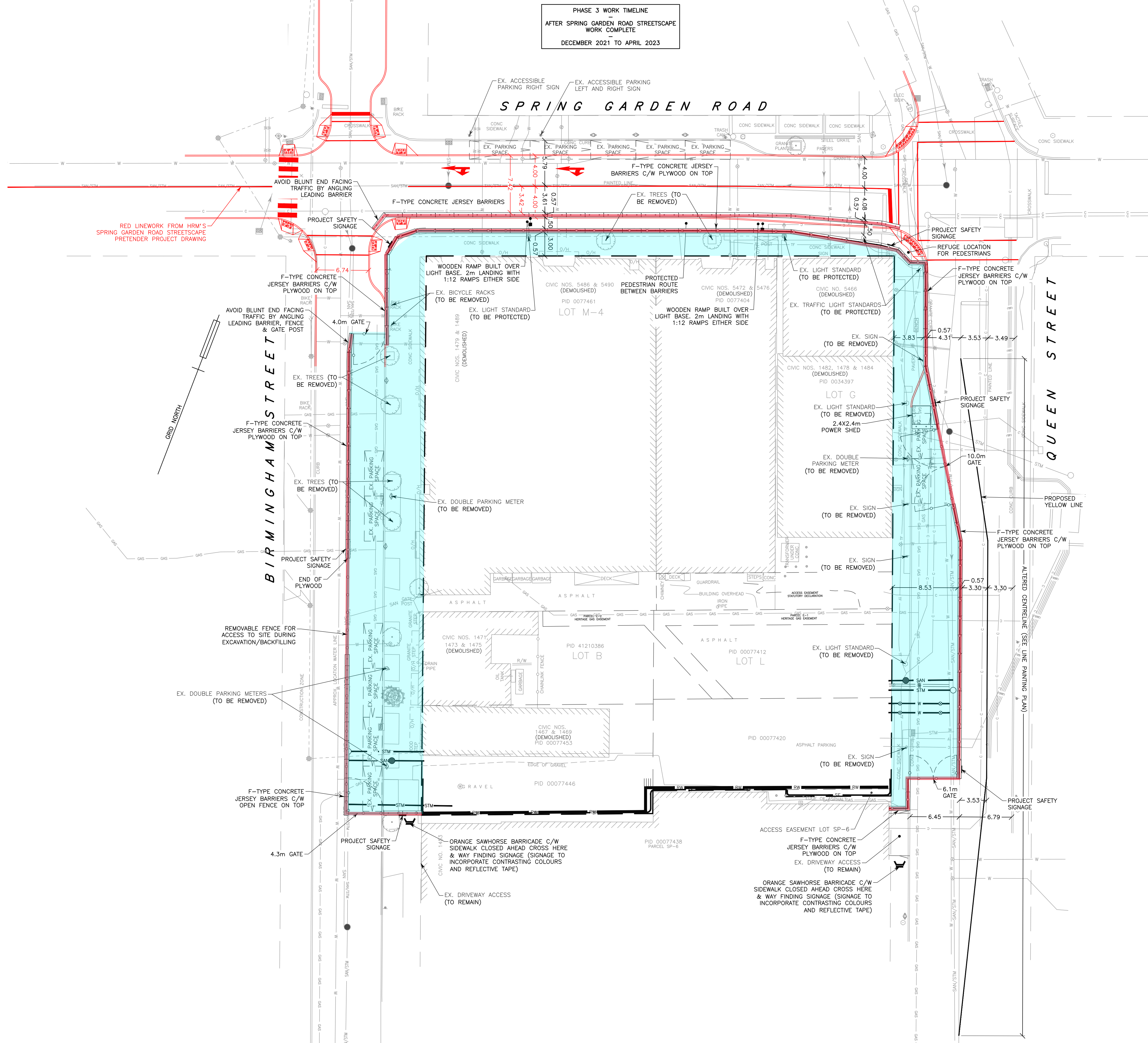
No.	YY/MM/DD	Revision	Description	Appr'd
1	21/03/05		REVISED PROTECTED SIDEWALK	
0	21/02/03		ISSUED FOR REVIEW	

THE MILLS DEVELOPMENT
5486 SPRING GARDEN ROAD
HALIFAX, NOVA SCOTIA

PHASE 3 (CONCRETE OPERATIONS)
ENCROACHMENT PLAN

Date	Drawn	Project No.
FEBRUARY 3, 2021	C. PORTER	FILE NO. 1-1-130 (35587)
Scale	Engineer	Plan No.
1:250	G. MACLEAN	16-2465-1
Reference	Approved	Drawing Name
---	G. MACLEAN	
Surveyed	Sheet	
SDMM		R1C





LEGEND	
EXISTING	PROPOSED
25.0	CONTOUR LINE
⊗/⊗BF	CURB STOP/GATE/BUTTERFLY VALVE
⊕	FIRE HYDRANT
⊠	CONCRETE THRUST BLOCK
⊕	SIAMSE CONNECTION
⊠	CATCH BASIN/PIT
—	CULVERT
⊠	ROCK LINING/DAM
⊠	ROCK WALL/RETAINING WALL
⊕	POWER POLE & ANCHOR/LIGHT STANDARD
⊕	TREE
⊕	STREET SIGN/PARKING METER
× 131.82	ELEVATION/GRADE
⊠	TEST PIT
—	DRAINAGE/SWALE FLOW DIRECTION
—	WATER MAIN/SERVICE
—	SANITARY MANHOLE & PIPE
—	STORM MANHOLE & PIPE
—	COMBINED PIPE
—	GAS LINE
—	100YR. FLOOD LIMIT
—	GUARD RAIL
—	UNDERGROUND CONDUIT
—	OVERHEAD WIRES
—	PROPERTY LINE/BOUNDARY
—	FENCE
—	BUILDING
—	TOP OF SLOPE
—	TOE OF SLOPE
—	TREELINE
—	LIMITS OF DISTURBANCE
—	TACTILE PEDESTRIAN PLATES
—	PROJECT SAFETY SIGNAGE
—	ORANGE SAWHORSE BARRICADE

NOTES

- THIS PLAN IS IN METRIC.

No.	YY/MM/DD	Revision	Description	Appr'd
1	21/03/05	REVISED	PROTECTED SIDEWALK	
0	21/02/03	ISSUED FOR	REVIEW	

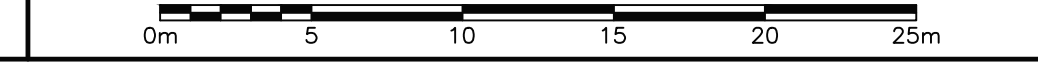
REGISTERED PROFESSIONAL ENGINEER
DATE
G.K. MacLean
8978
PROFESSIONAL ENGINEER
NOVA SCOTIA

SDMM
Servant, Dunbrack, McKenzie & MacDonald Ltd.
NOVA SCOTIA LAND SURVEYORS & CONSULTING ENGINEERS
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THE MILLS DEVELOPMENT
5486 SPRING GARDEN ROAD
HALIFAX, NOVA SCOTIA

PHASE 3 (CONCRETE OPERATIONS) ENCROACHMENT PLAN

Date	Drawn	Project No.
FEBRUARY 3, 2021	C. PORTER	FILE NO. 1-1-130 (35587)
Scale	Engineer	Plan No.
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Reference	Approved	Drawing Name
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Surveyed	Sheet	
SDMM		R1C



Appendix B – Traffic Control Plans (TCP)

B1 - Barrier Installation TCP - Spring Garden Road

B2 - Barrier Installation TCP - Birmingham Street

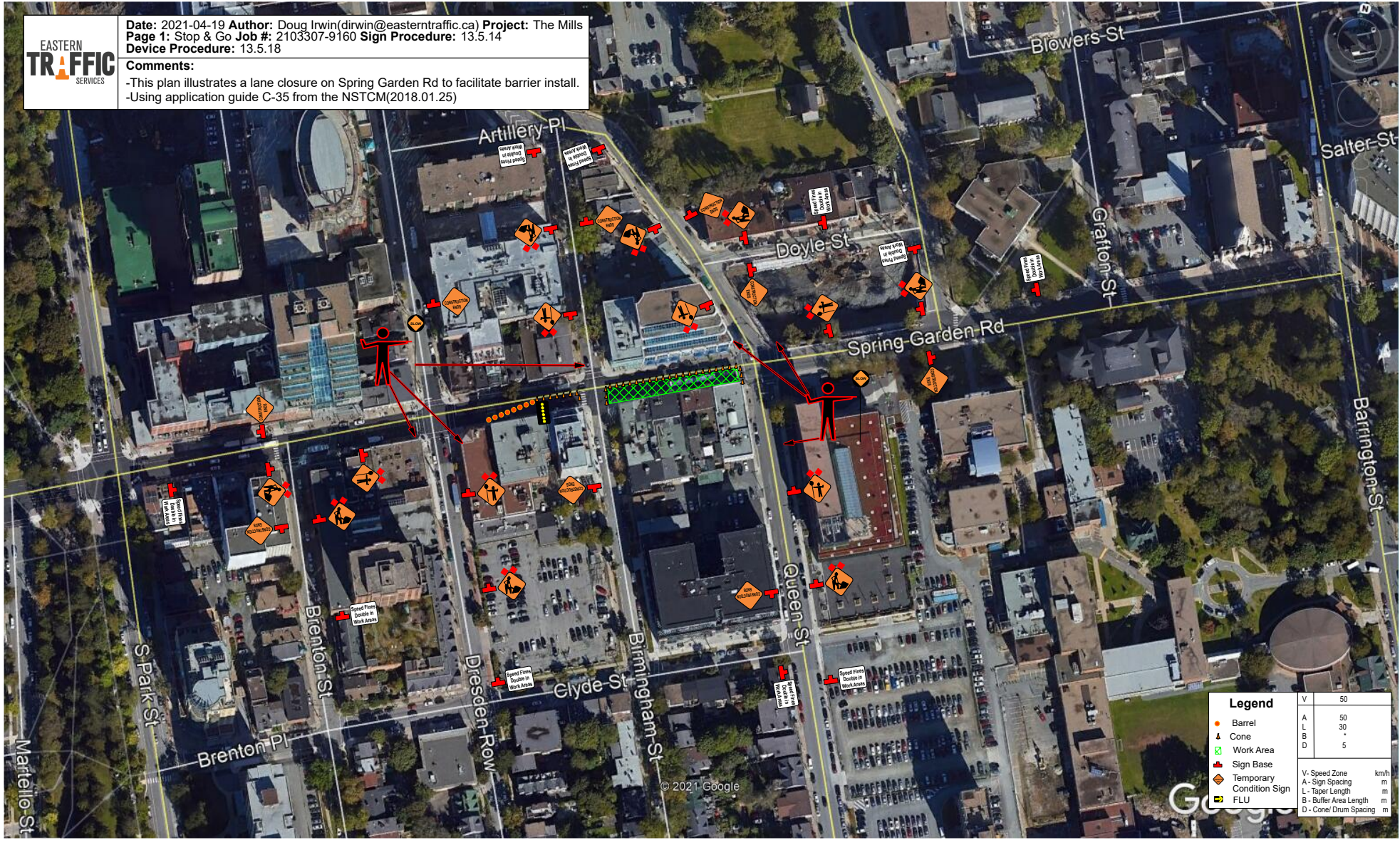
B3 - Barrier Installation TCP - Queen Street

B4 - Crane Installation TCP

B5 - Service Lateral Install TCP 1

B6 - Service Lateral Install TCP2

EASTERN TRAFFIC SERVICES
Date: 2021-04-19 **Author:** Doug Irwin (dirwin@eastemtraffic.ca) **Project:** The Mills
Page 1: Stop & Go Job #: 2103307-9160 **Sign Procedure:** 13.5.14
Device Procedure: 13.5.18
Comments:
 -This plan illustrates a lane closure on Spring Garden Rd to facilitate barrier install.
 -Using application guide C-35 from the NSTCM(2018.01.25)

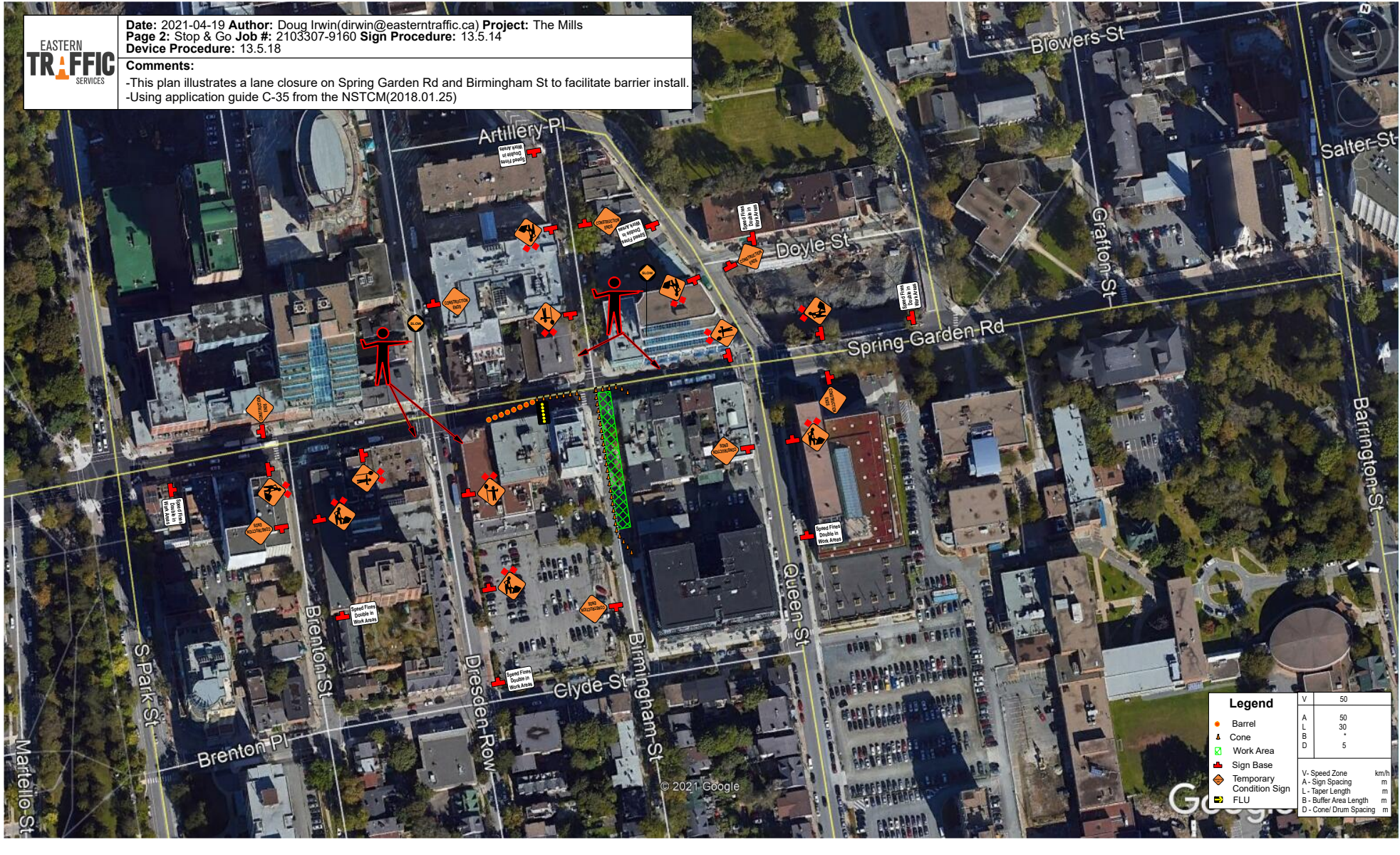


Legend	
●	Barrel
▲	Cone
■	Sign Base
▨	Work Area
◆	Temporary Condition Sign
⚡	FLU
V	50
A	50
L	30
B	*
D	5
V	Speed Zone km/h
A	Sign Spacing m
L	Taper Length m
B	Buffer Area Length m
D	Cone/ Drum Spacing m

EASTERN TRAFFIC SERVICES

Date: 2021-04-19 **Author:** Doug Irwin (dirwin@eastemtraffic.ca) **Project:** The Mills
Page 2: Stop & Go Job #: 2103307-9160 **Sign Procedure:** 13.5.14
Device Procedure: 13.5.18

Comments:
 -This plan illustrates a lane closure on Spring Garden Rd and Birmingham St to facilitate barrier install.
 -Using application guide C-35 from the NSTCM(2018.01.25)

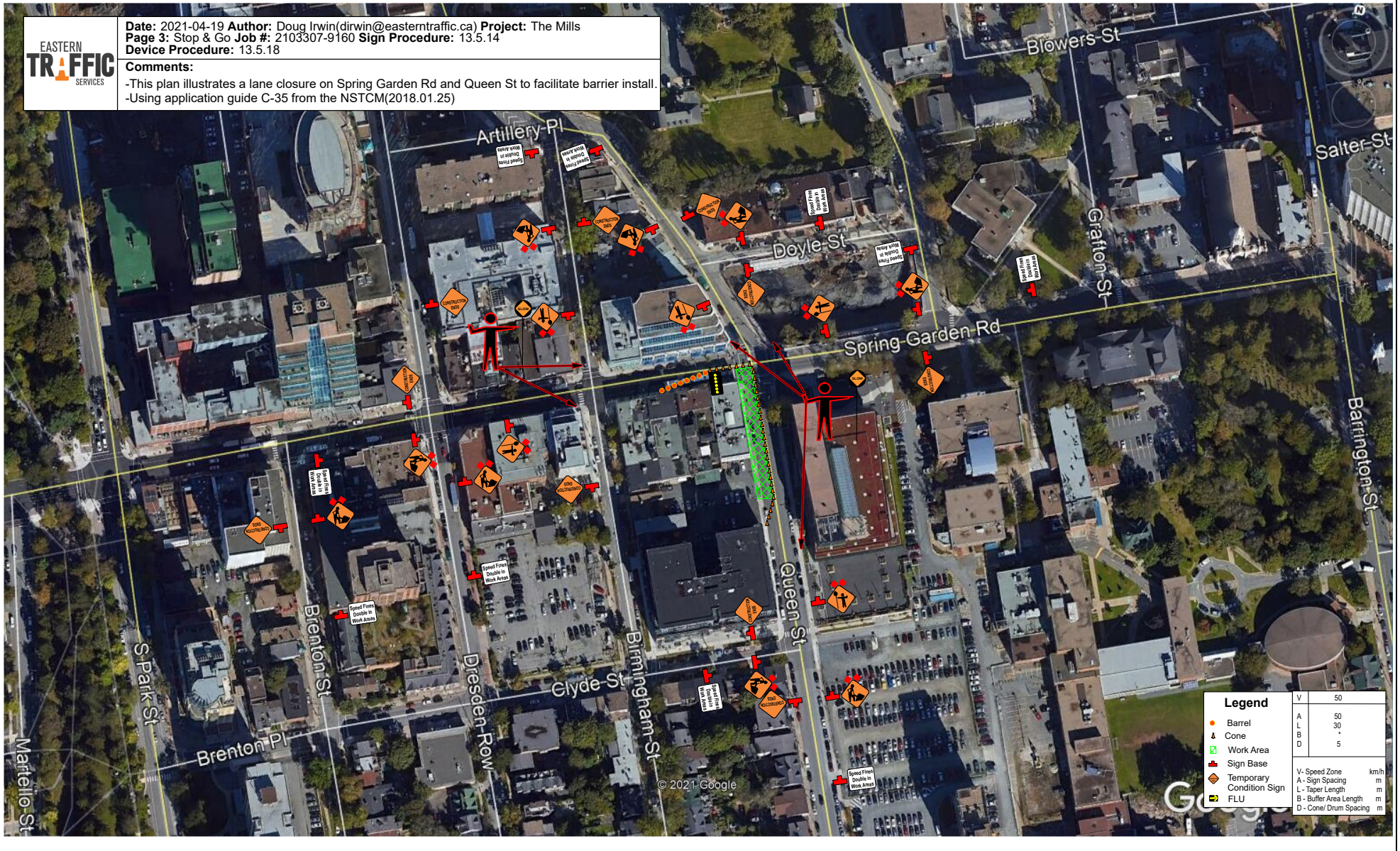


Legend		V	50
●	Barrel	A	50
▲	Cone	L	30
■	Work Area	B	*
□	Sign Base	D	5
◆	Temporary Condition Sign	V	Speed Zone km/h
⚡	FLU	A	Sign Spacing m
		L	Taper Length m
		B	Buffer Area Length m
		D	Cone/ Drum Spacing m

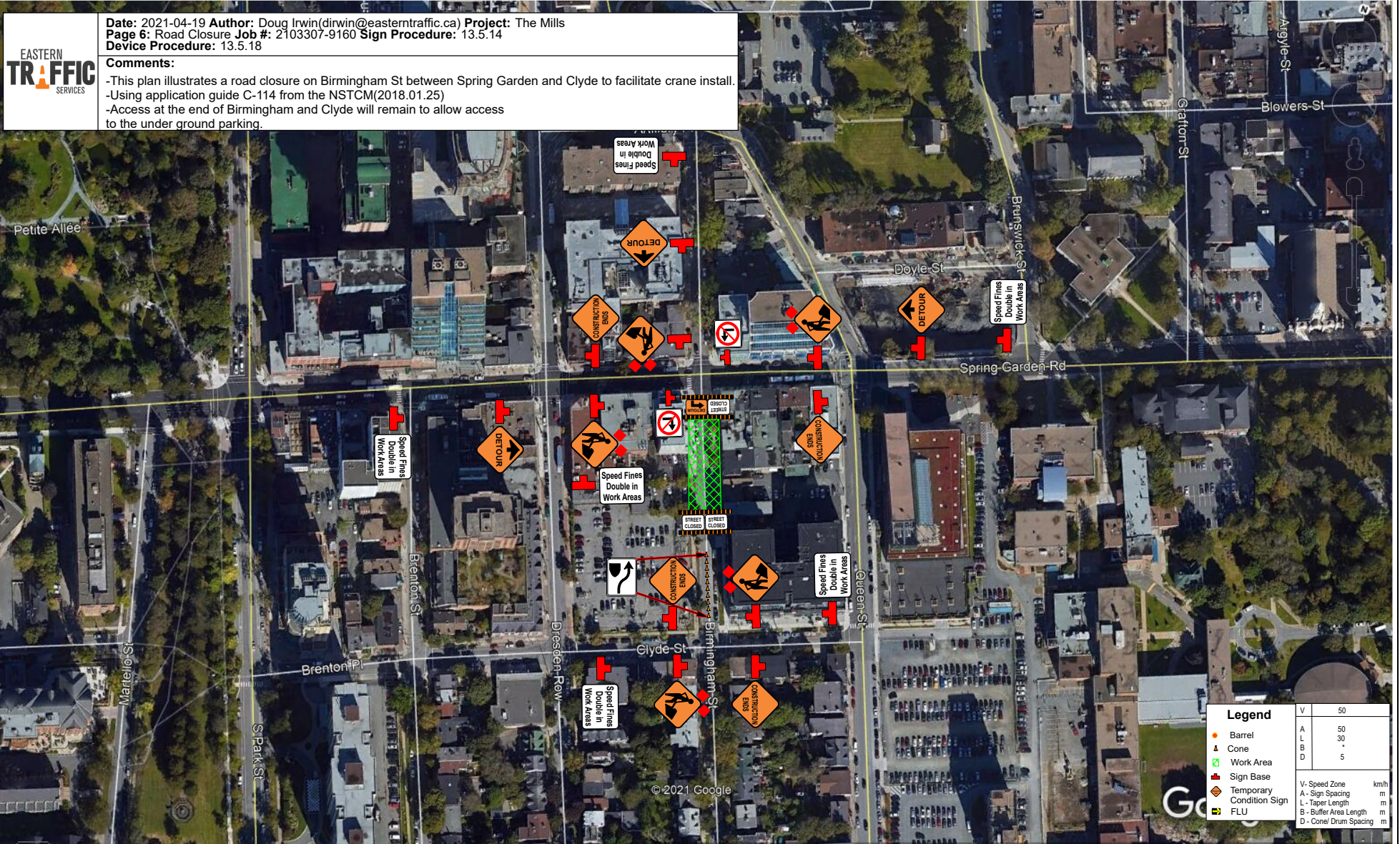
EASTERN TRAFFIC SERVICES

Date: 2021-04-19 **Author:** Doug Irwin (dirwin@eastemtraffic.ca) **Project:** The Mills
Page 3: Stop & Go Job #: 2103307-9160 **Sign Procedure:** 13.5.14
Device Procedure: 13.5.18

Comments:
 -This plan illustrates a lane closure on Spring Garden Rd and Queen St to facilitate barrier install.
 -Using application guide C-35 from the NSTCM(2018.01.25)



Legend		V	50
●	Barrel	A	50
▲	Cone	L	30
■	Work Area	B	*
□	Sign Base	D	5
◆	Temporary Condition Sign	V	Speed Zone km/h
⚡	FLU	A	Sign Spacing m
		L	Taper Length m
		B	Buffer Area Length m
		D	Cone/ Drum Spacing m



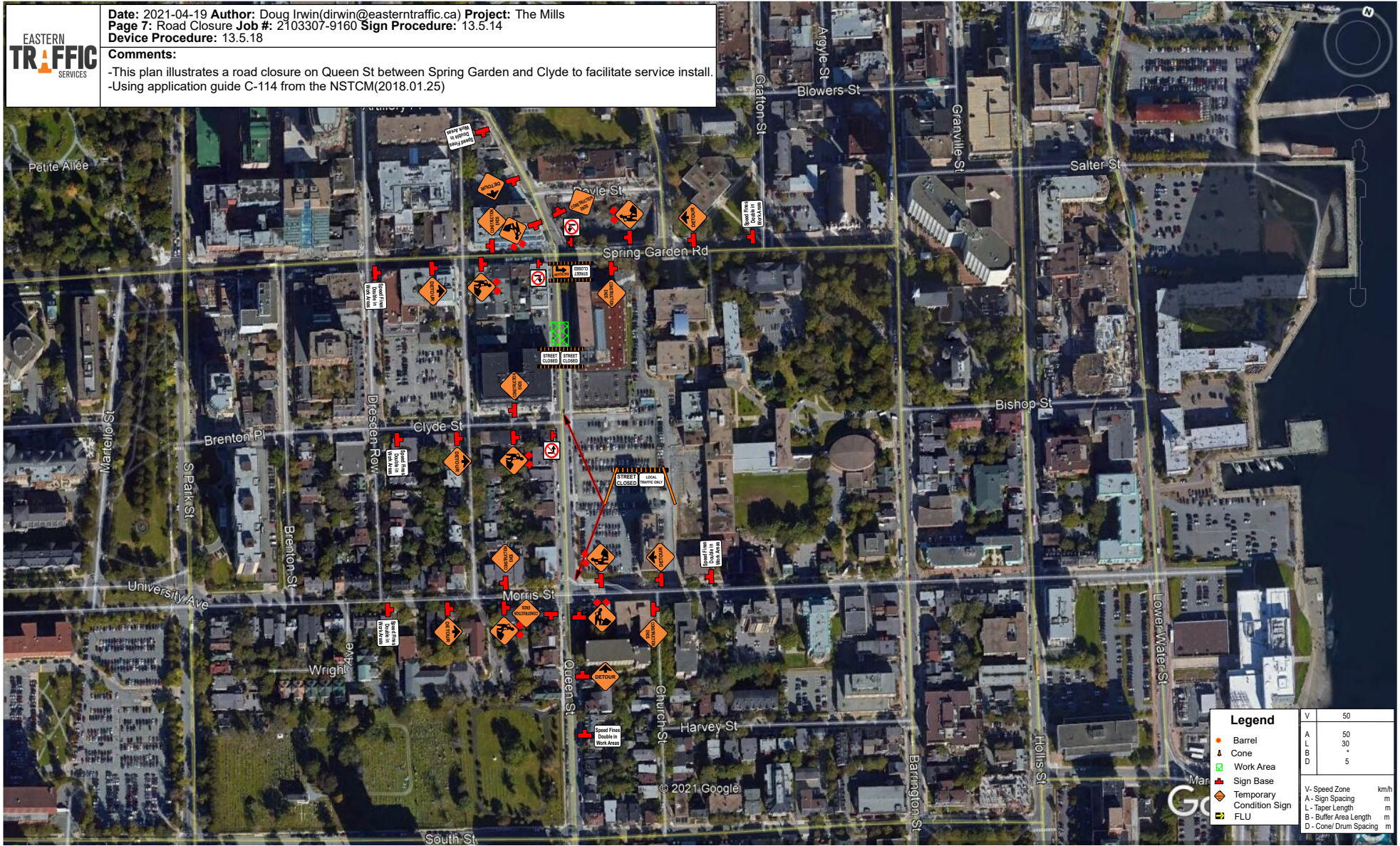
EASTERN TRAFFIC SERVICES

Date: 2021-04-19 **Author:** Doug Irwin(dirwin@easterntraffic.ca) **Project:** The Mills
Page 6: Road Closure Job #: 2103307-9160 **Sign Procedure:** 13.5.14
Device Procedure: 13.5.18

Comments:
 -This plan illustrates a road closure on Birmingham St between Spring Garden and Clyde to facilitate crane install.
 -Using application guide C-114 from the NSTCM(2018.01.25)
 -Access at the end of Birmingham and Clyde will remain to allow access to the under ground parking.



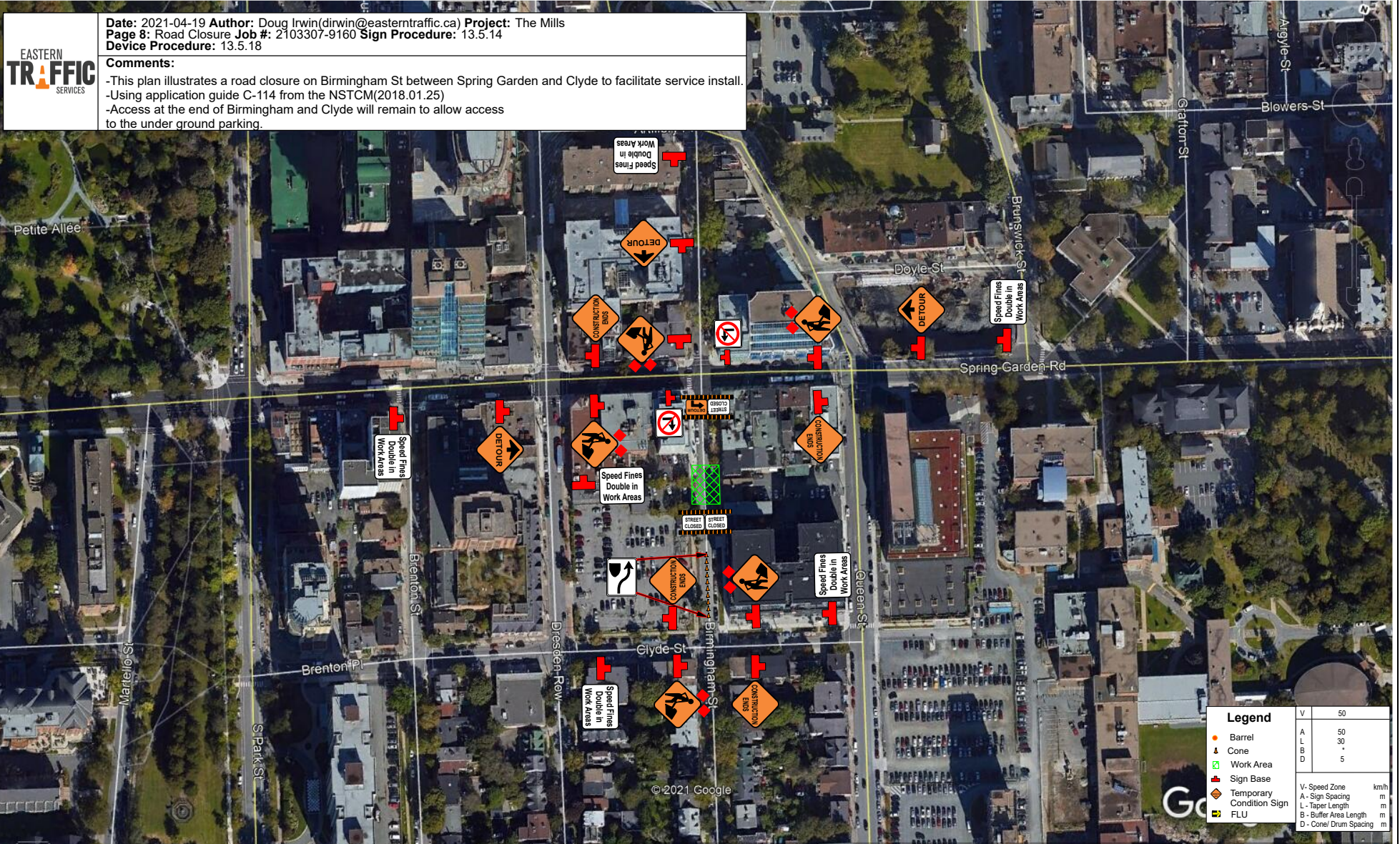
Date: 2021-04-19 **Author:** Doug Irwin(dirwin@easterntraffic.ca) **Project:** The Mills
Page 7: Road Closure **Job #:** 2103307-9160 **Sign Procedure:** 13.5.14
Device Procedure: 13.5.18
Comments:
 -This plan illustrates a road closure on Queen St between Spring Garden and Clyde to facilitate service install.
 -Using application guide C-114 from the NSTCM(2018.01.25)



Legend	
●	Barrel
▲	Cone
■	Work Area
■	Sign Base
◆	Temporary Condition Sign
FLU	FLU

V	50	km/h
A	50	m
L	30	m
B	+	m
D	5	m

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



Appendix C – Haul Route Plan

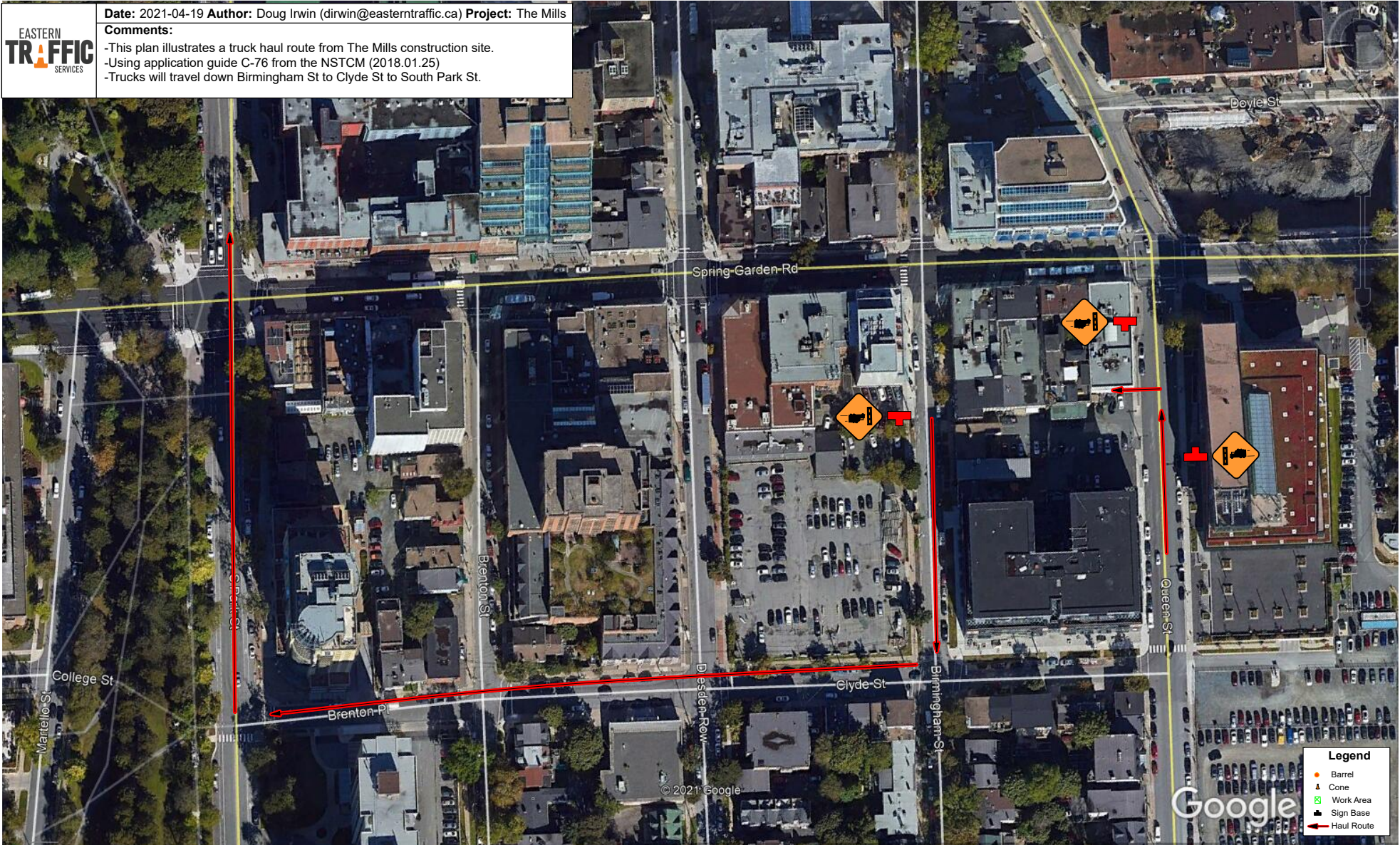
Appendix C - Haul Route Plan

EASTERN TRAFFIC SERVICES

Date: 2021-04-19 **Author:** Doug Irwin (dirwin@easterntraffic.ca) **Project:** The Mills

Comments:

- This plan illustrates a truck haul route from The Mills construction site.
- Using application guide C-76 from the NSTCM (2018.01.25)
- Trucks will travel down Birmingham St to Clyde St to South Park St.

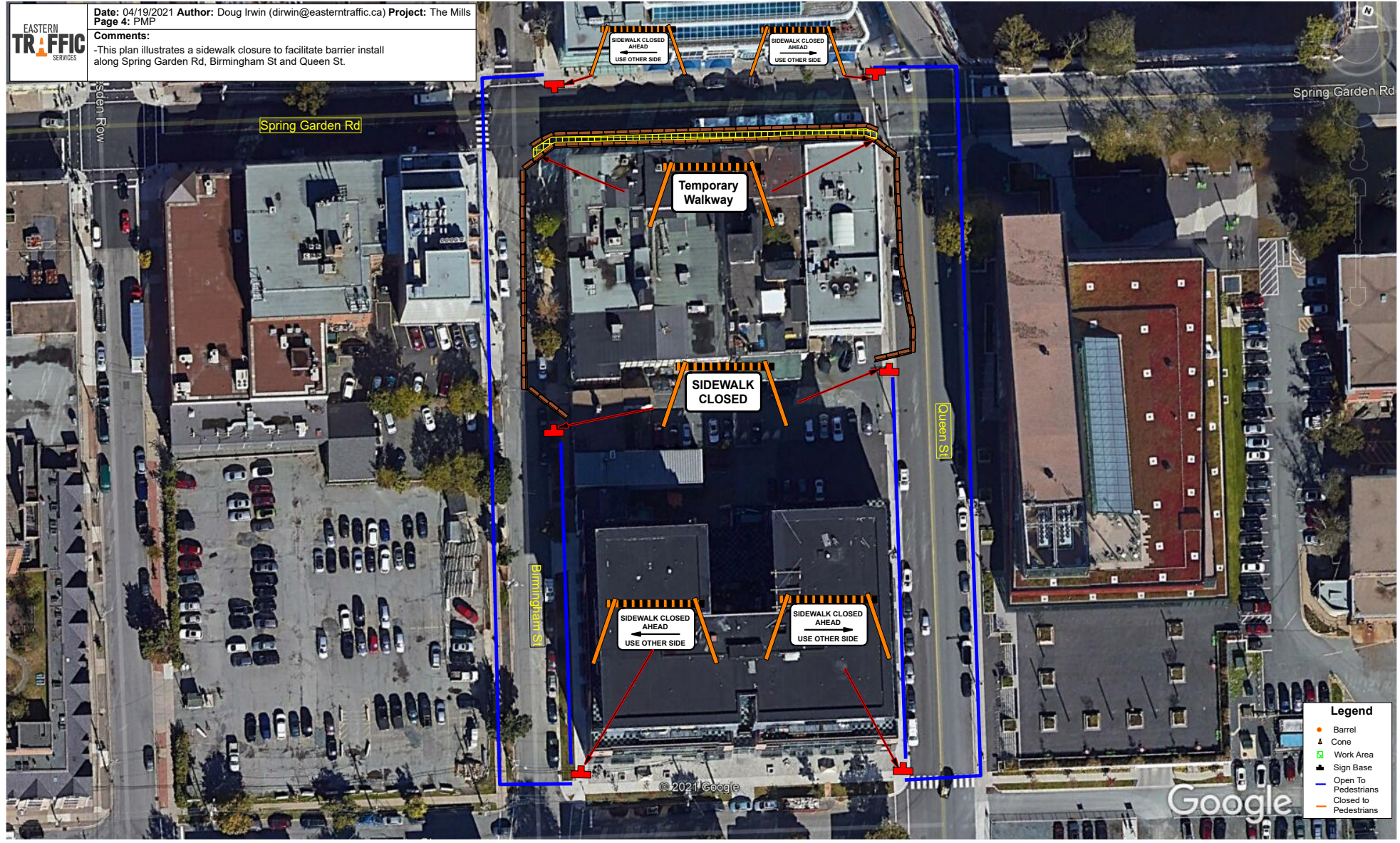


- Legend**
- Barrel
 - ▲ Cone
 - ▭ Work Area
 - Sign Base
 - Haul Route

Appendix D – Pedestrian Management Plan (PMP)

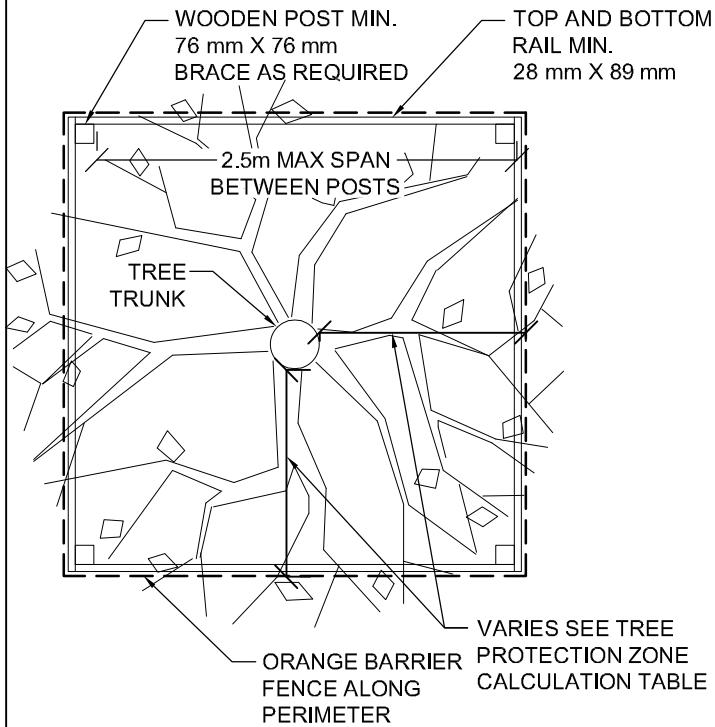
Appendix D - Pedestrian Management Plan (PMP)

EASTERN TRAFFIC SERVICES
Date: 04/19/2021 Author: Doug Irwin (dirwin@easterntraffic.ca) Project: The Mills
Page 4: PMP
Comments:
-This plan illustrates a sidewalk closure to facilitate barrier install along Spring Garden Rd, Birmingham St and Queen St.



Appendix E – HRM Tree Detail

PLAN VIEW

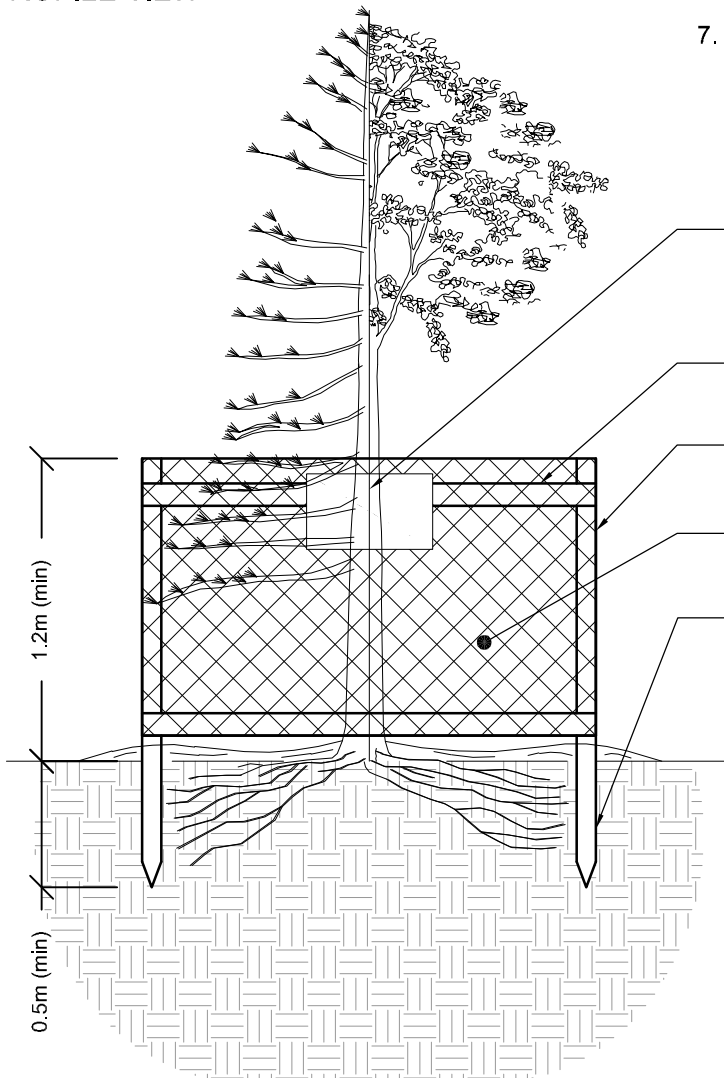


TREE PROTECTION ZONE CALCULATION TABLE	
TRUNK DIAMETER (DBH)	MINIMUM PROTECTION DISTANCE REQUIRED (MEASURE FROM THE OUTSIDE EDGE OF TREE TRUNK)
10 CM & UNDER	1.2 METERS
11 - 30 CM	2.0 METERS
31 - 40 CM	3.4 METERS
41 - 50 CM	4.6 METERS
51 - 60 CM	6.0 METERS
61 - 70 CM	7.0 METERS
71 - 80 CM	8.0 METERS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

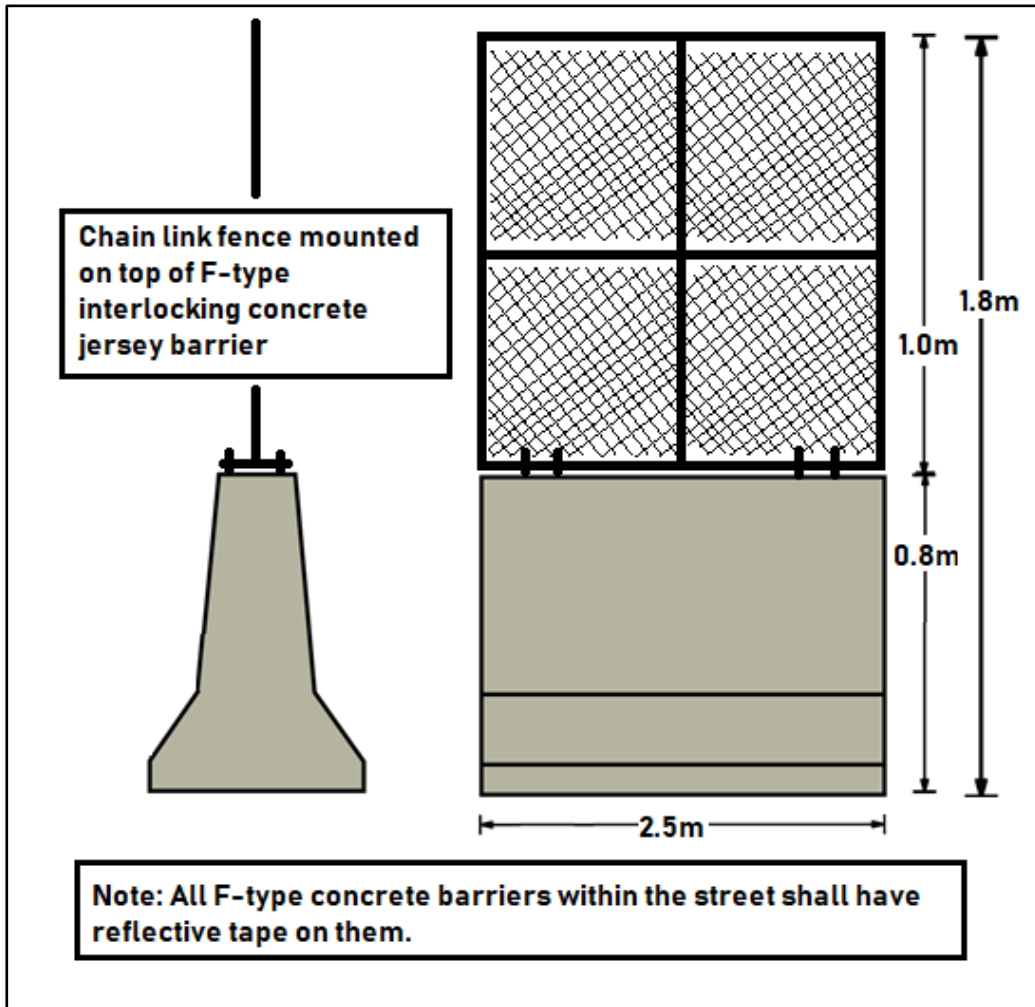
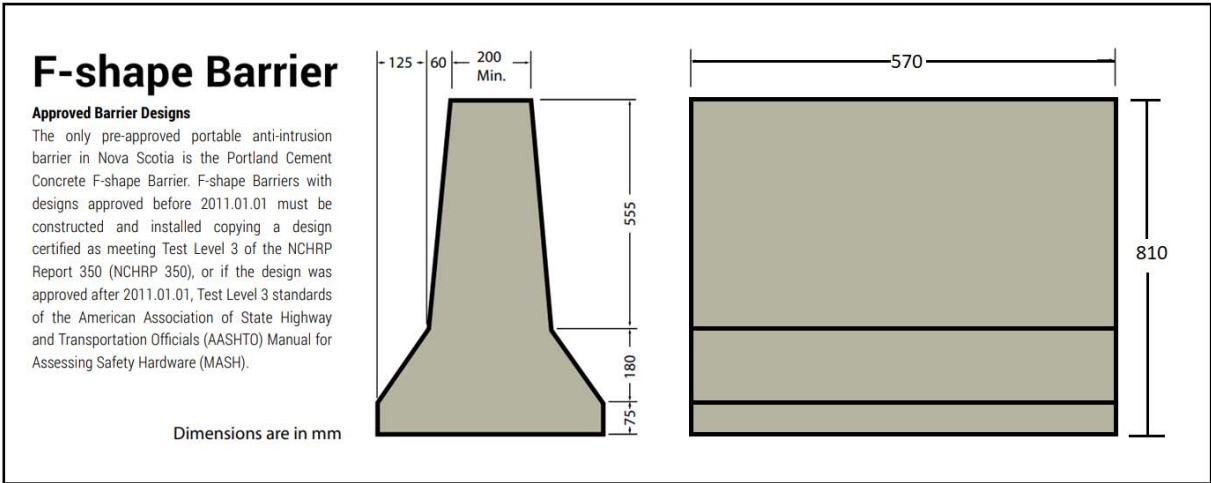
STANDARD DETAIL

TREE PROTECTION ZONE & BARRIER

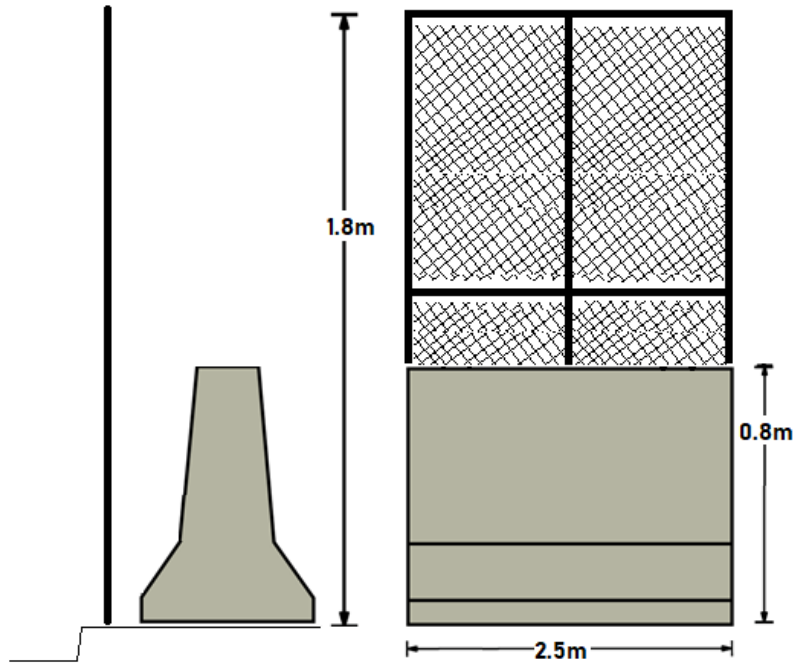
DATE: 2019	REFERENCE:	APPROVED
SCALE: NTS		FIG NO:

Appendix F – Barrier, Fence & Gates Information

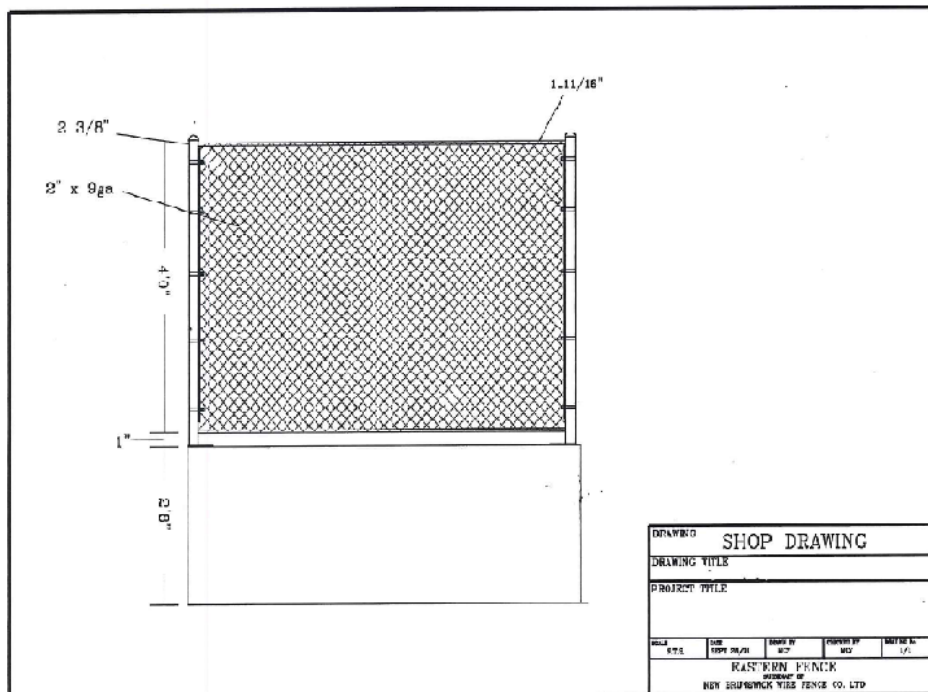
Sample Barrier & Fence Details



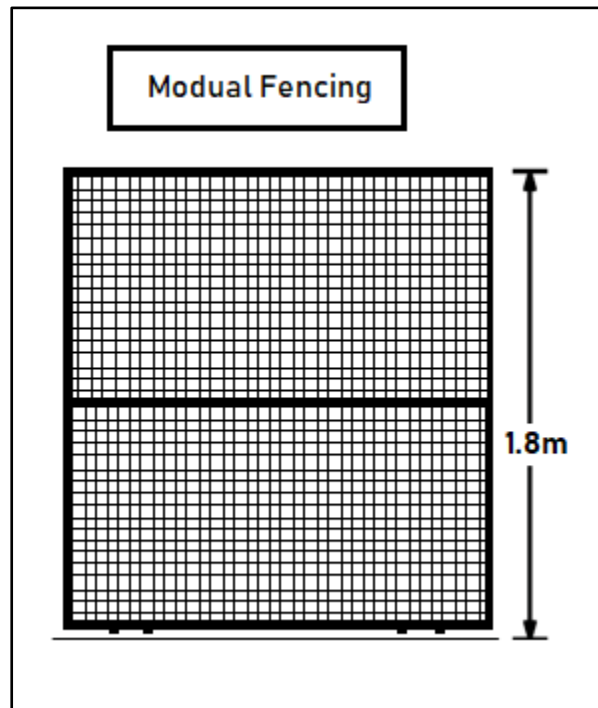
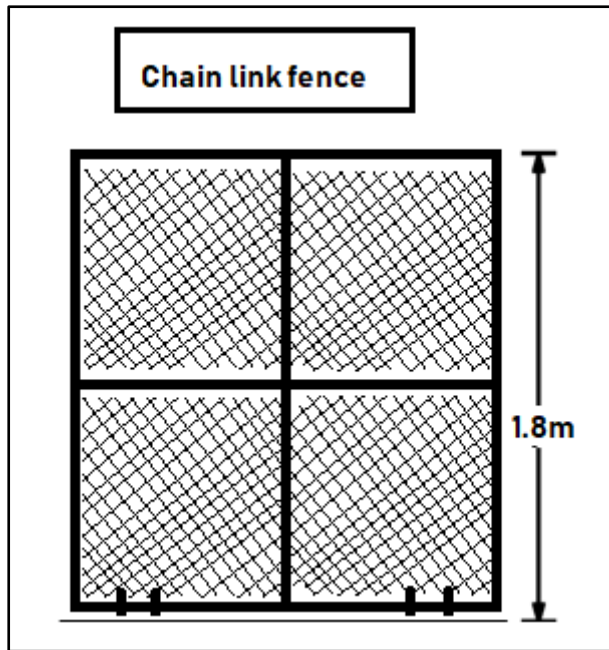
Fence mounted to curb with interlocking F-type concrete jersey barriers set beside

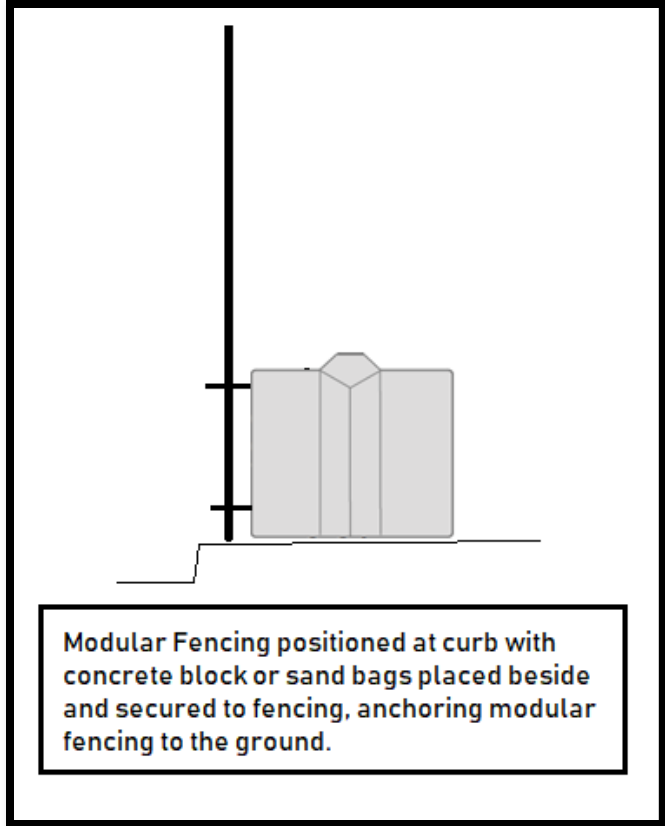


Note: All F-type concrete barriers within the street shall have reflective tape on them.



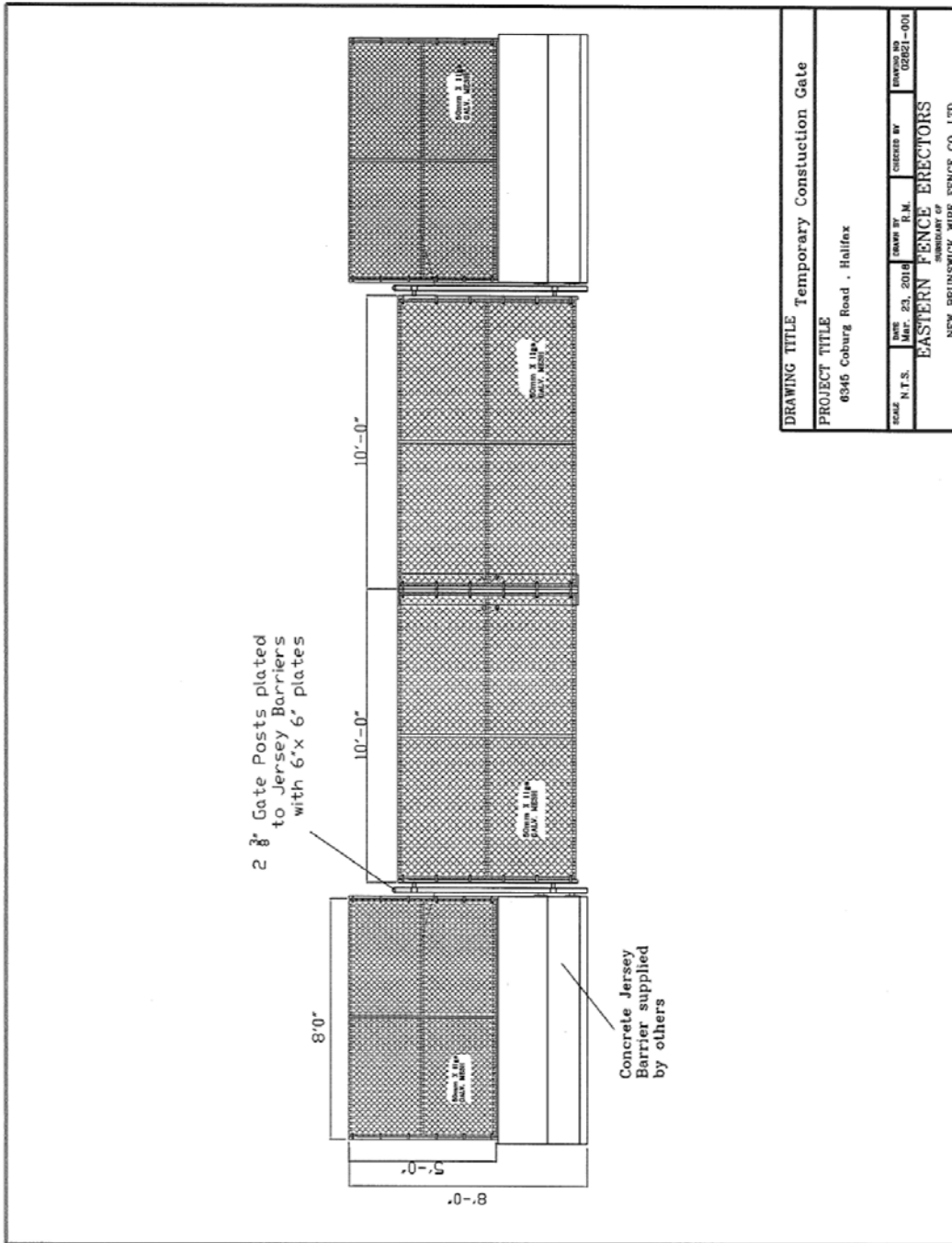
DRAWING					SHOP DRAWING				
DRAWING TITLE									
PROJECT TITLE									
DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
1/14	1/14	1/14	1/14	1/14	1/14	1/14	1/14	1/14	1/14
EASTERN FENCE A DIVISION OF NEW BRUNSWICK FENCE CO. LTD.									





Modular Fencing positioned at curb with concrete block or sand bags placed beside and secured to fencing, anchoring modular fencing to the ground.

Sample Gate Detail

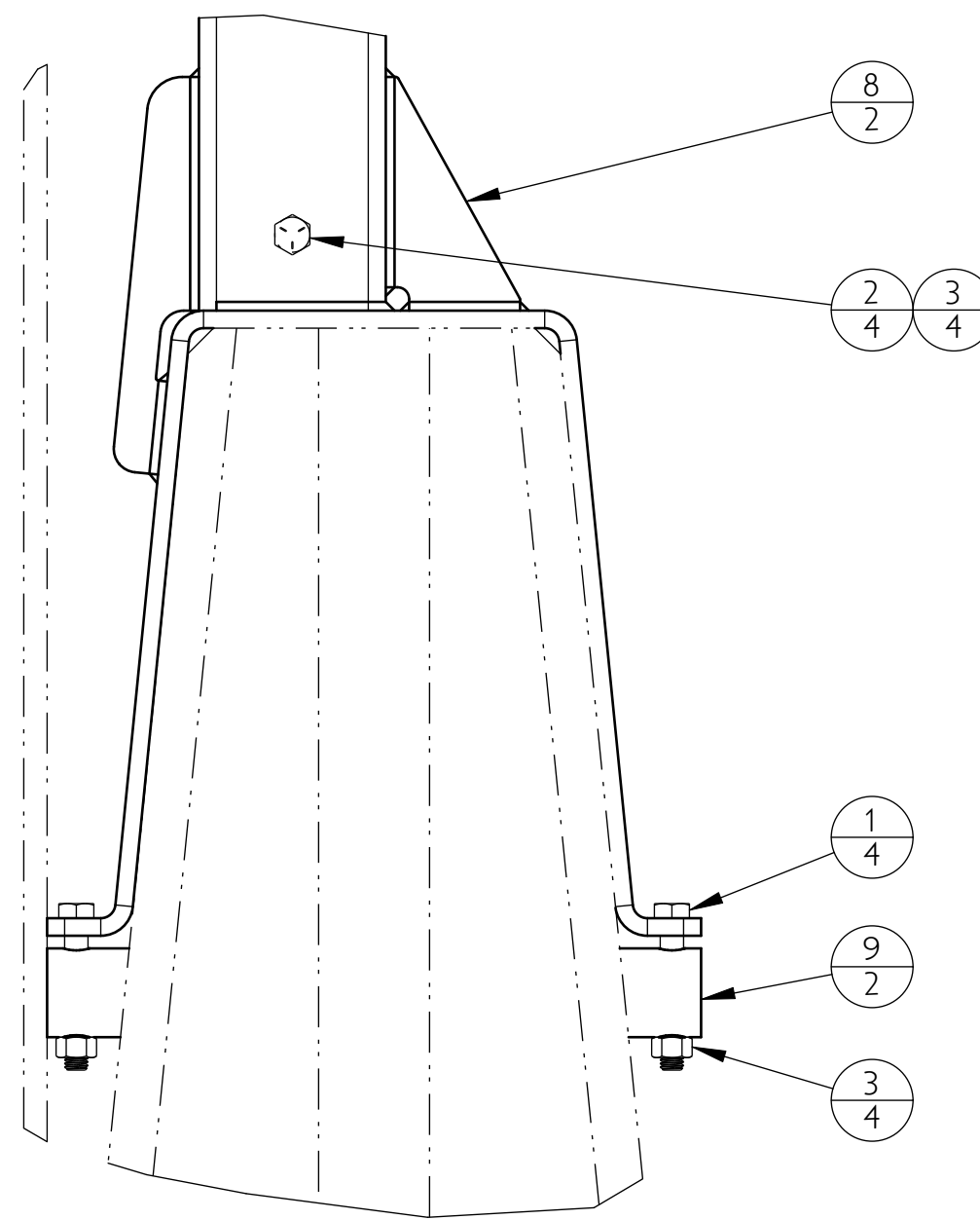
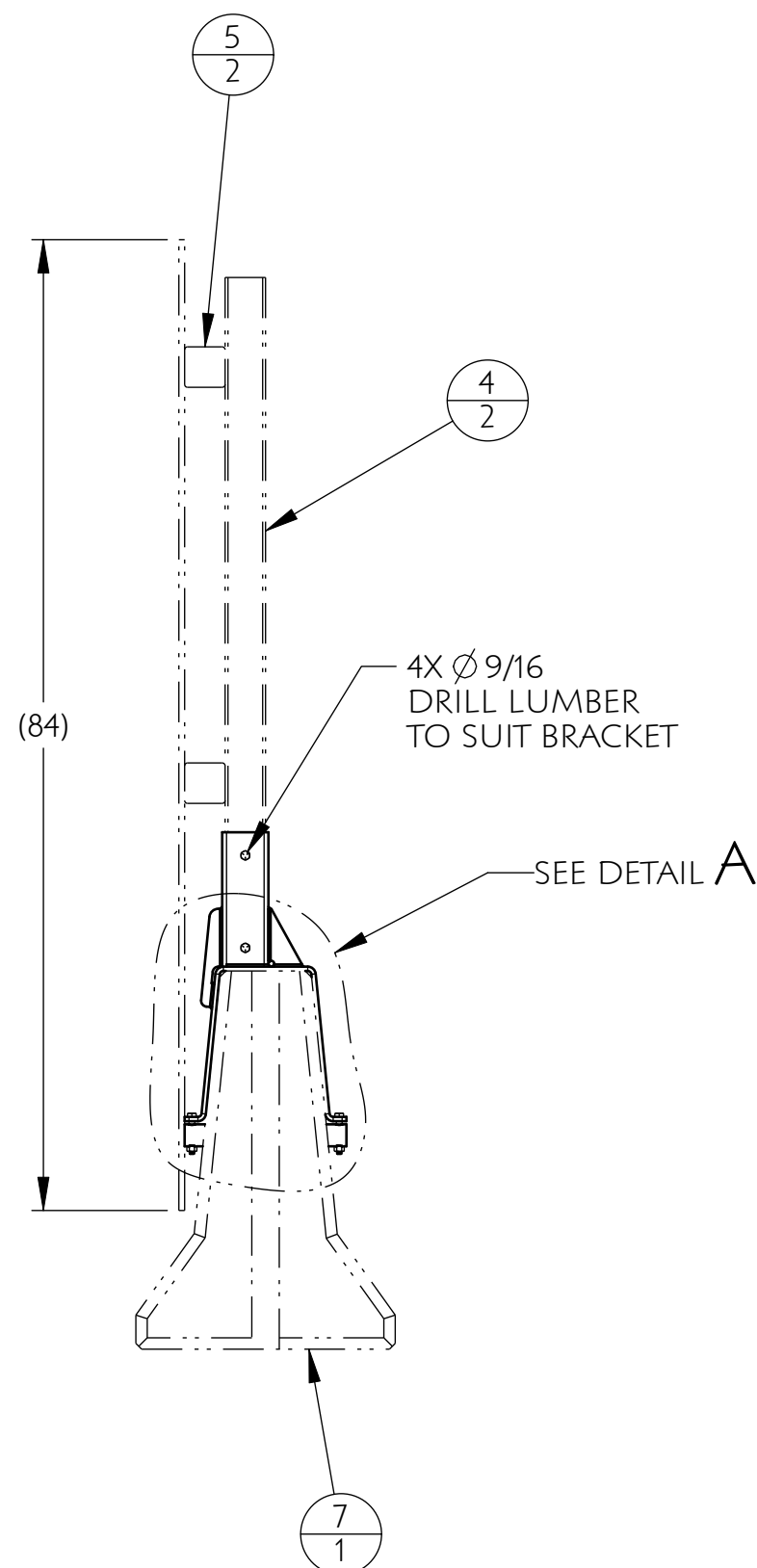
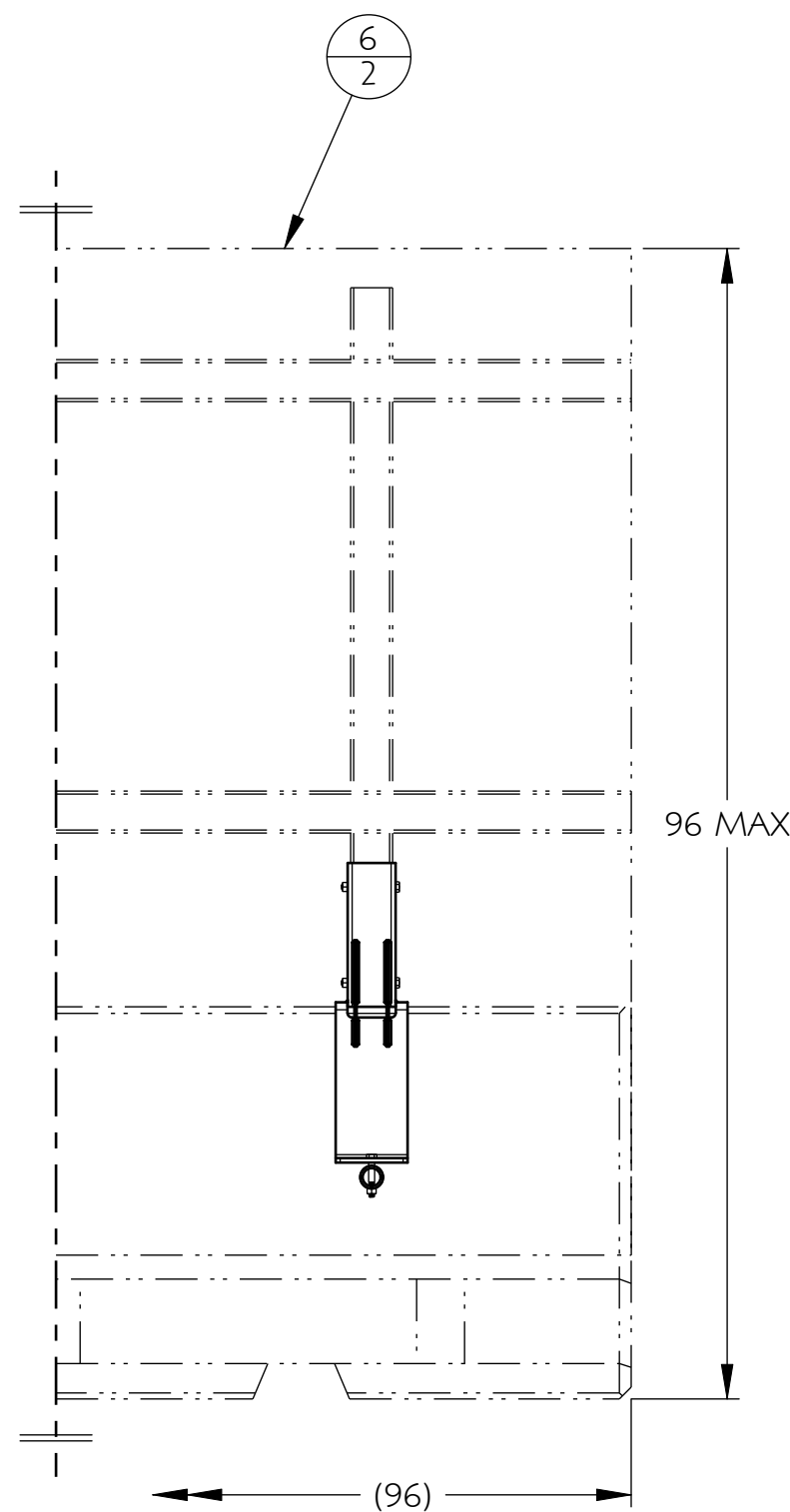


DRAWING TITLE Temporary Construction Gate			
PROJECT TITLE 6345 Coburg Road . Halifax			
SCALE N.T.S.	DATE Mar. 23, 2018	DRAWN BY R.M.	CHECKED BY DDB21-001
EASTERN FENCE ERECTORS NEW BRUNSWICK WIRE FENCE CO. LTD			

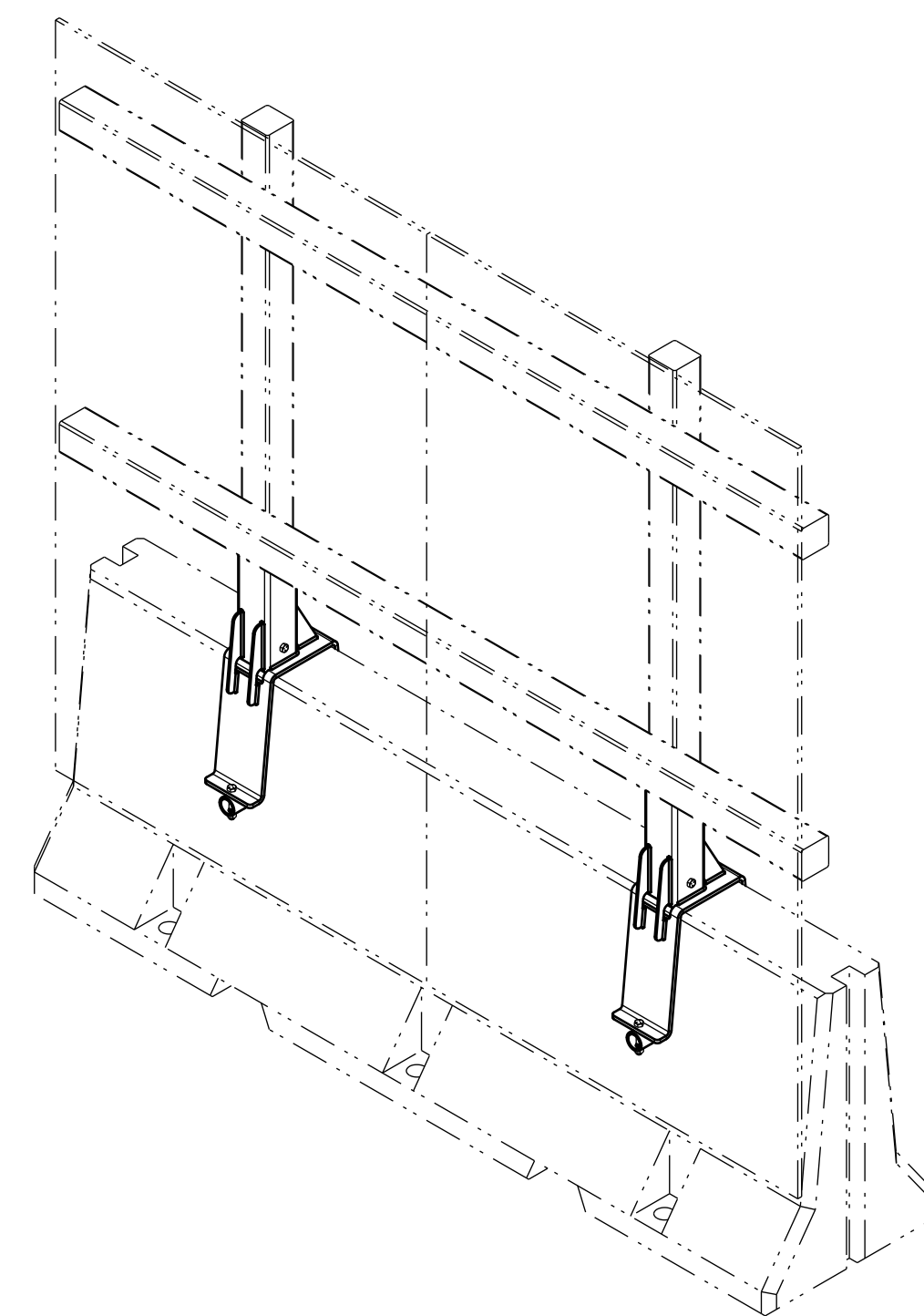




REV	ZONE	DESCRIPTION	DATE
A	-	FIRST ISSUE	-



DETAIL A
SCALE 1:4



ITEM N°	QTY	PART NUMBER	PART NAME	SUPPLY
1	4	-	1/2-13 UNC-2A X 3-1/4 LONG HEX HEAD SCREW, GRADE 5 MINIMUM	BY OTHERS
2	4	-	1/2-13 UNC-2A X 4-1/2 LONG HEX HEAD SCREW, GRADE 5 MINIMUM	BY OTHERS
3	8	-	1/2-13 UNC-2B NUT, GRADE 5 MINIMUM	BY OTHERS
4	2	-	4X4 LUMBER, 8 ft LONG	BY OTHERS
5	2	-	4X4 LUMBER, ~5 ft LONG	BY OTHERS
6	2	-	PLYWOOD SHEET	BY OTHERS
7	1	-	SHAW PRECAST SOLUTIONS STANDARD JJ BARRIER, F-TYPE	BY OTHERS
8	2	PO25-0002-00	BARRIER BRACKET	VELOCITY MACHINING & WELDING INC.
9	2	PO25-0003-00	FASTENING PIPE	VELOCITY MACHINING & WELDING INC.

NOTES:

- FOR USE IN 100 km/hr WINDS MAXIMUM. WIND SPEEDS GREATER THAN 100 km/hr MAY CAUSE BARRIER TO TIP OVER.

2019-10-29
Original Signed

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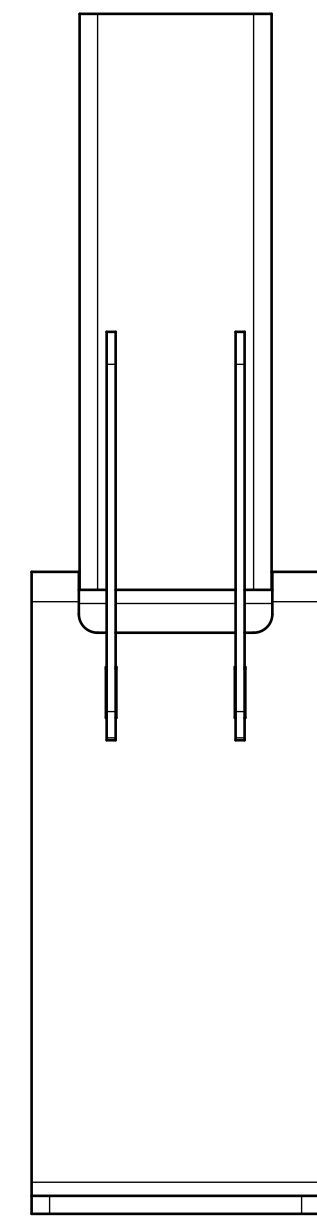
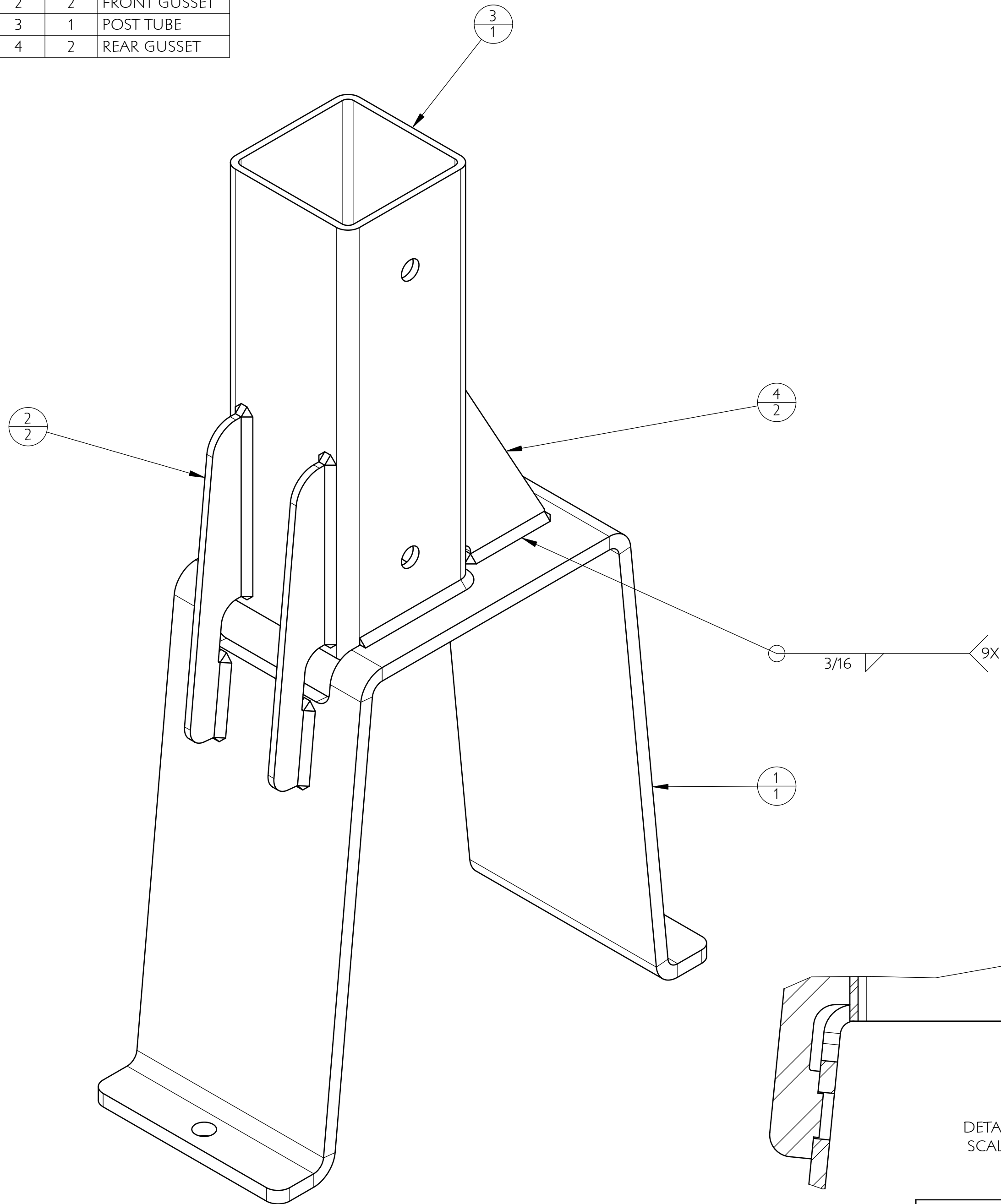
DIMENSIONS IN INCHES, INTERPRET PER ASME Y14.5M-1994						
TOLERANCES AND FINISH UNLESS NOTED OTHERWISE						
∠	X & X/X	XX	XXX	XXXX	FILLETS	CORNERS
±.5°	±1/32	±.01	±.005	±.0010	.02 MAX	.02 MAX

125/√MAX

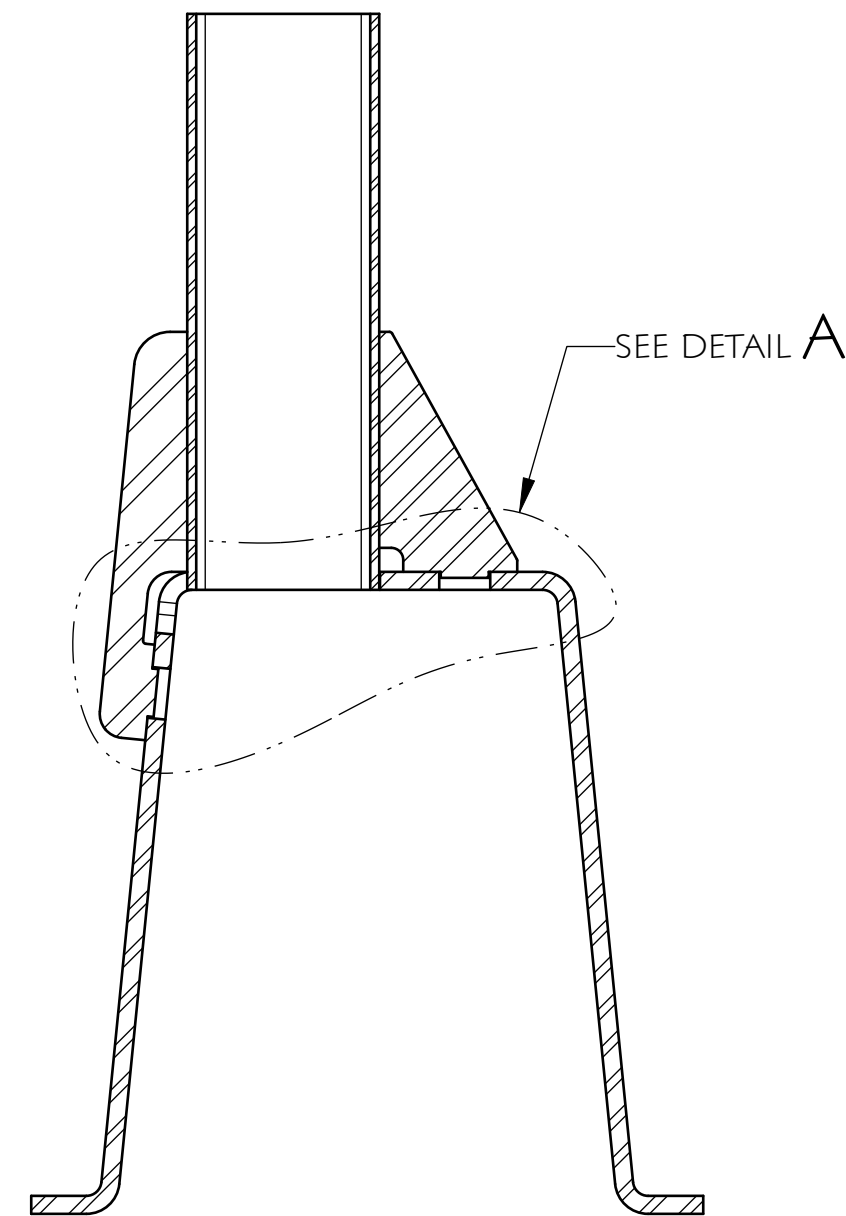
MASS	<p>121 ILSLEY AVE, UNIT 114, DARTMOUTH NOVA SCOTIA, CANADA, B3B 1S4 http://wellengineered.ca/</p>		
MATERIAL			
CHECKED	TITLE	BARRIER BRACKET GA	
APPROVED	SIZE	THIRD ANGLE PROJECTION	DRAWING N°
DATE	2019-10-28	C	PO25-0001-00
SCALE 1:16		REV A	
SHEET 1 OF 1			

REV	ZONE	DESCRIPTION	DATE
A	-	FIRST ISSUE	-

ITEM N°	QTY	PART NAME
1	1	BRACKET
2	2	FRONT GUSSET
3	1	POST TUBE
4	2	REAR GUSSET

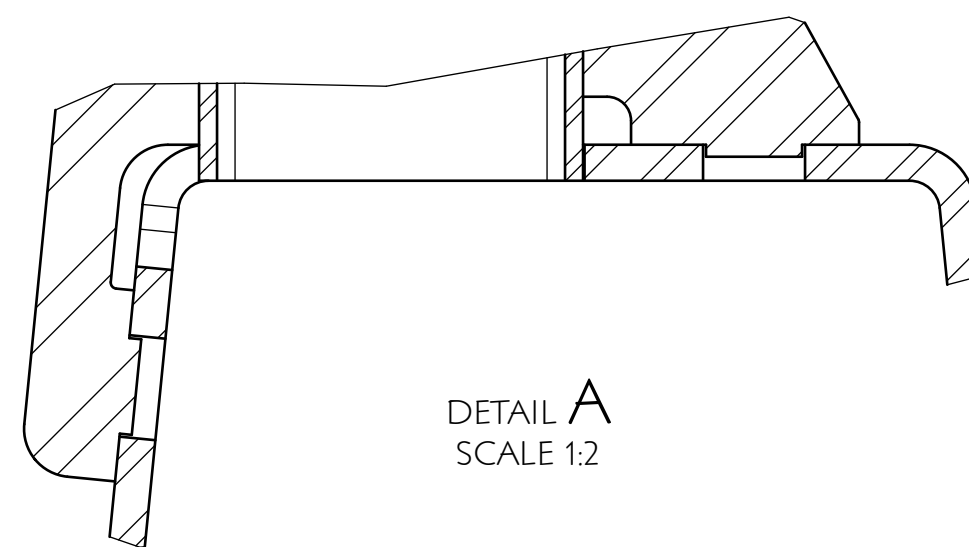


SCALE 1:4



SECTION A-A



2019-10-29
Original Signed



DETAIL A
SCALE 1:2

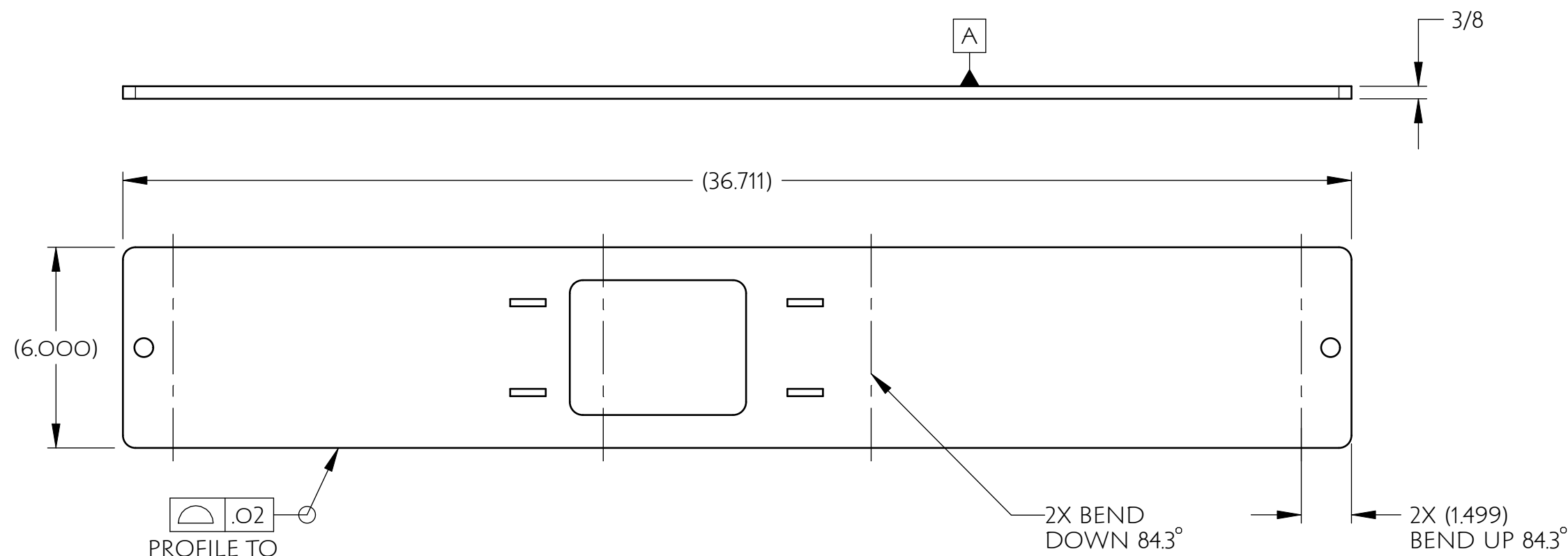
NOTES:

1. WELDING SHALL CONFORM TO REQUIREMENTS OF C.S.A W59.

MASS	32.535 lbm		
MATERIAL	[REDACTED]		
CHECKED	[REDACTED]	TITLE	BARRIER BRACKET
APPROVED	[REDACTED]	SIZE	C
DATE	2019-10-28	DRAWING N°	PO25-0002-00
		THIRD ANGLE PROJECTION	
		SCALE	1:2
		REV	A
		SHEET 1 OF 2	

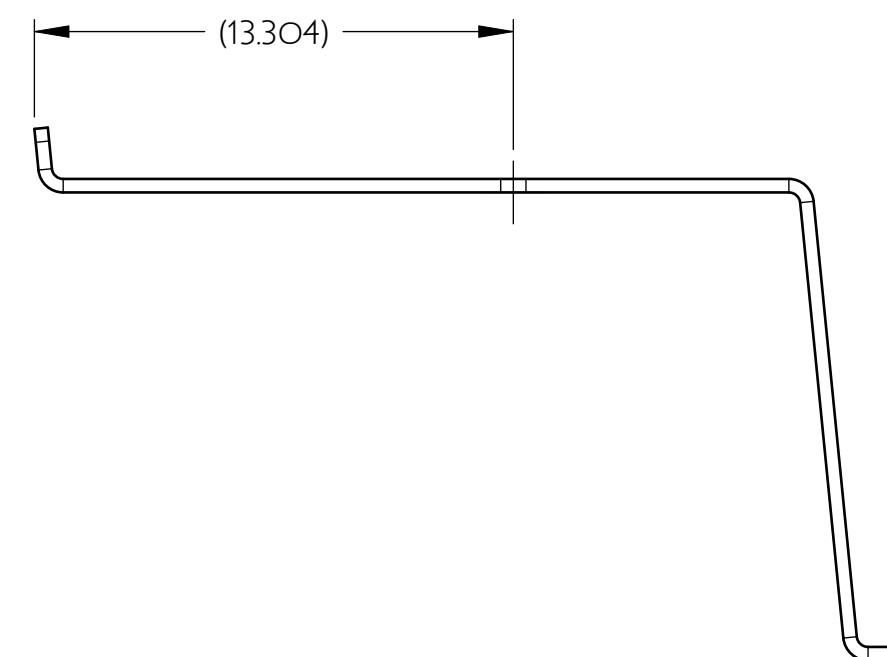
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DIMENSIONS IN INCHES, INTERPRET PER ASME Y14.5M-1994						
TOLERANCES AND FINISH UNLESS NOTED OTHERWISE						
∠	X & X/X	XX	XXX	XXXX	FILLETS	CORNERS
±.5°	±1/32	±.01	±.005	±.0010	.02 MAX	.02 MAX
						√ MAX

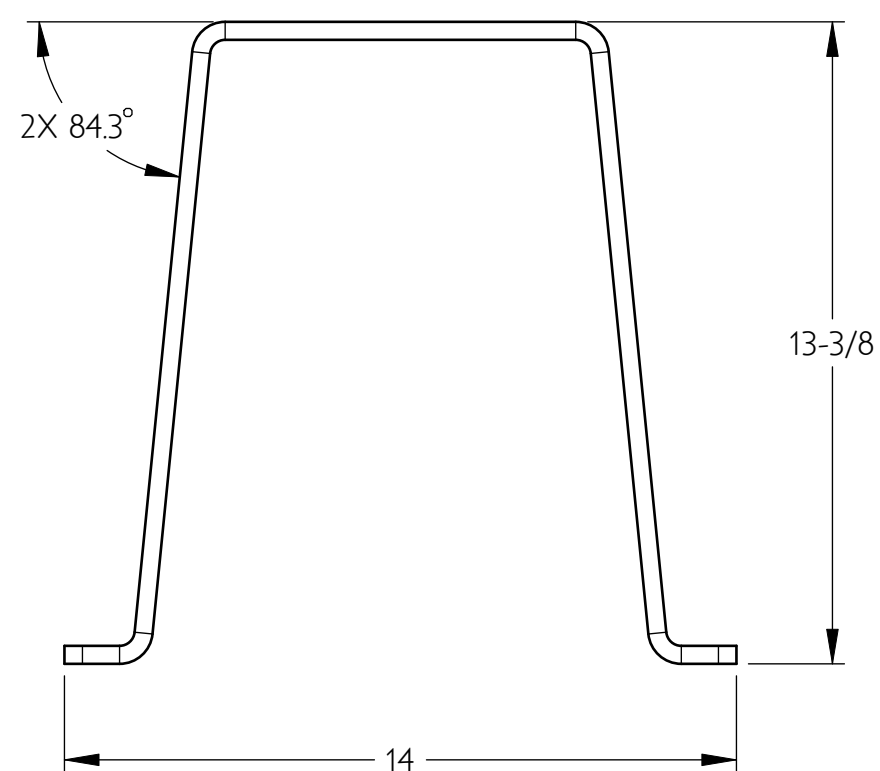


PROFILE TO CAD DATA ALL FEATURES

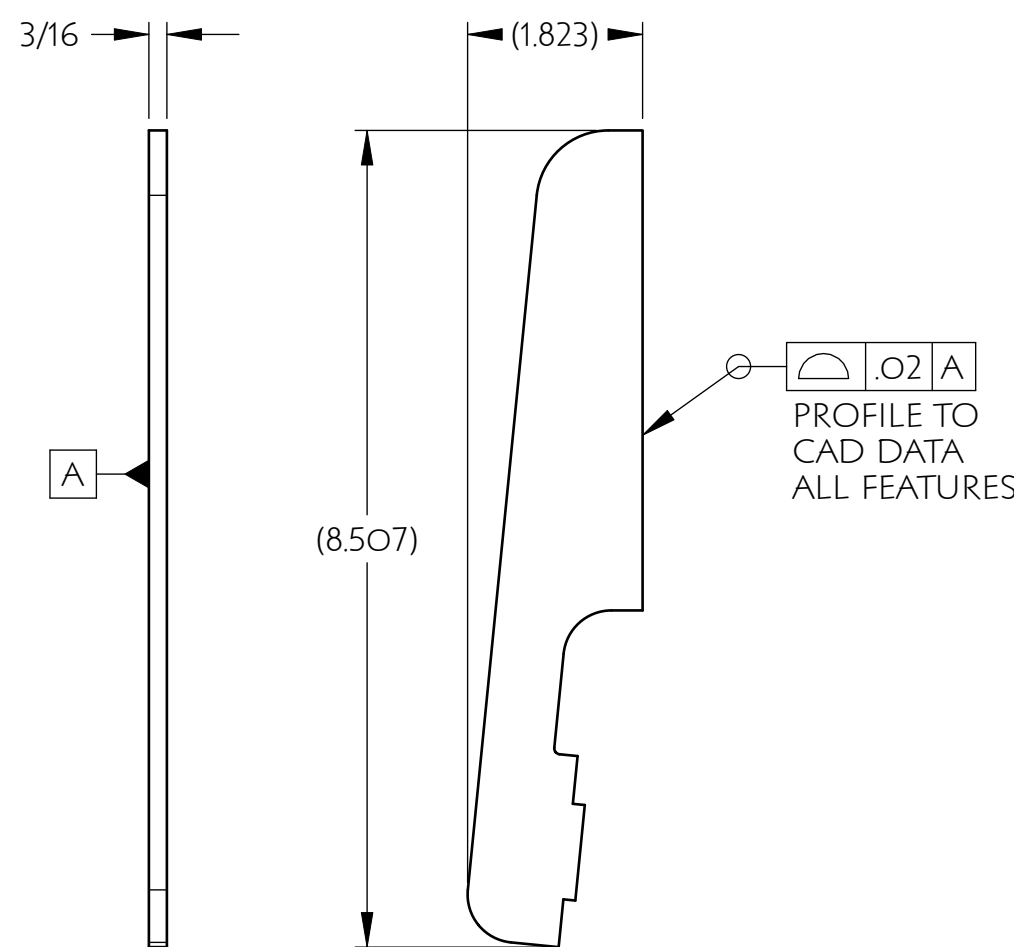
BRACKET FLAT PATTERN
 BASED ON .430 K FACTOR
 AIR BEND, 50 mm DIE
 SCALE 1:4



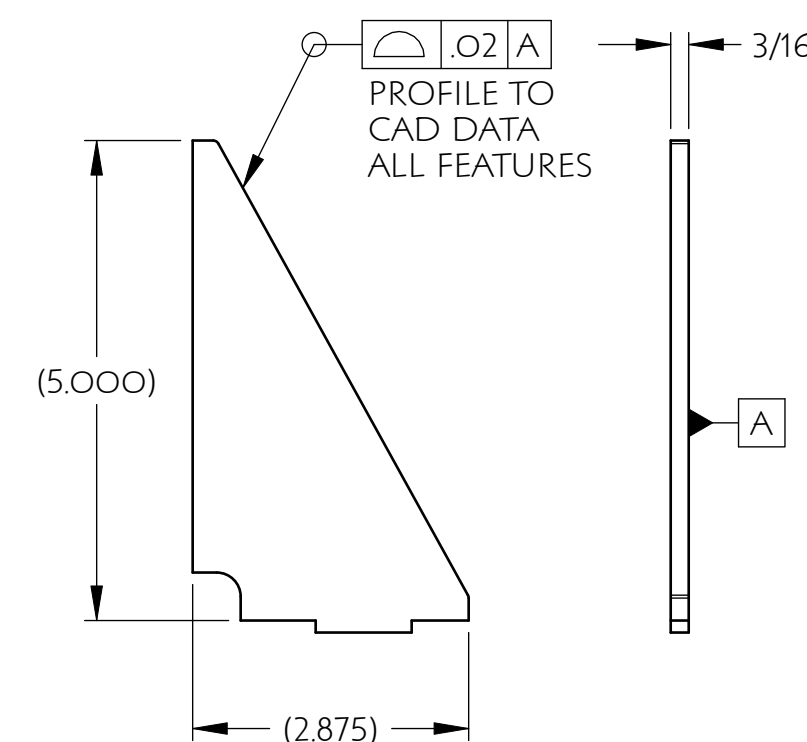
BRACKET LAST BEND
 SCALE 3:16



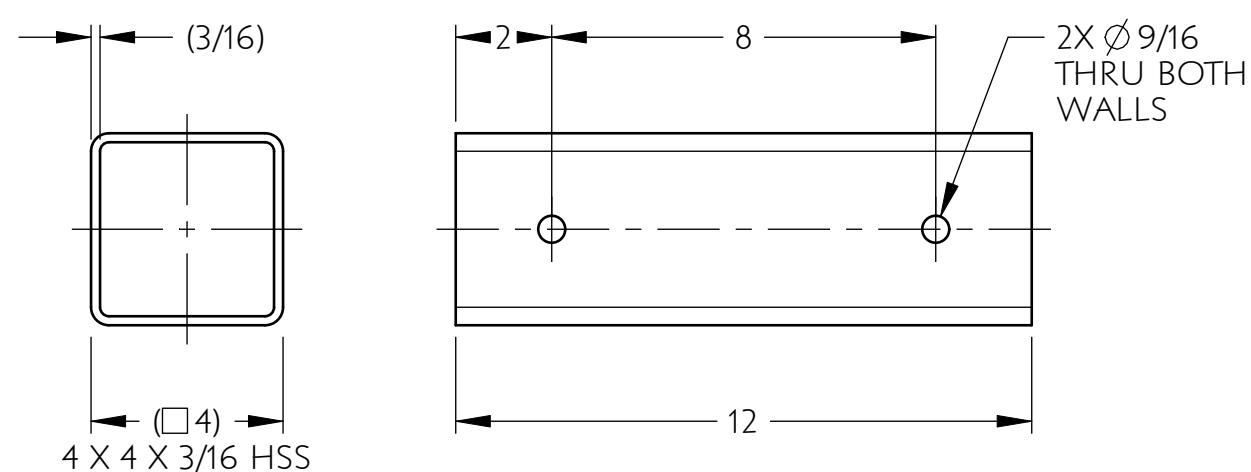
BRACKET
 SCALE 1:4



FRONT GUSSET
 SCALE 1:2



REAR GUSSET
 SCALE 1:2



POST TUBE
 SCALE 1:4

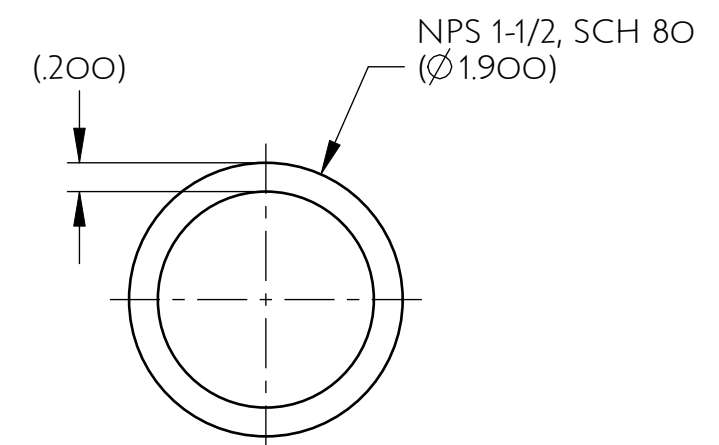
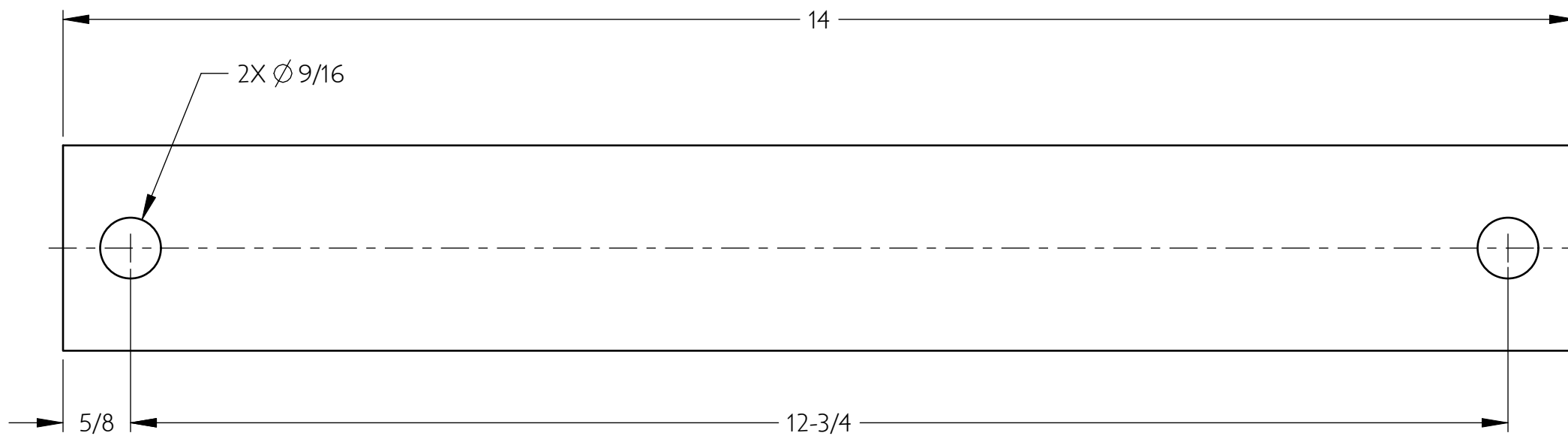
2019-10-29
 Original Signed

MASS	32.535 lbm		121 ILSLEY AVE, UNIT 114, DARTMOUTH NOVA SCOTIA, CANADA, B3B 1S4 http://wellengineered.ca/	
MATERIAL				
CHECKED		TITLE		
APPROVED		BARRIER BRACKET		
DATE	2019-10-28	SIZE	THIRD ANGLE PROJECTION	DRAWING N°
		C		PO25-0002-00
		SCALE	1:2	REV
				A

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DIMENSIONS IN INCHES, INTERPRET PER ASME Y14.5M-1994						
TOLERANCES AND FINISH UNLESS NOTED OTHERWISE						
∠	X & X/X	XX	XXX	XXXX	FILLETS	CORNERS
±.5°	±1/32	±.01	±.005	±.0010	.02 MAX	.02 MAX
						√MAX

REV	ZONE	DESCRIPTION	DATE
A	-	FIRST ISSUE	-



2019-10-29
Original Signed

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DIMENSIONS IN INCHES, INTERPRET PER ASME Y14.5M-1994							
TOLERANCES AND FINISH UNLESS NOTED OTHERWISE							
∠	X & X/X	.XX	.XXX	.XXXX	FILLETS	CORNERS	125/√MAX
±.5°	±1/32	±.01	±.005	±.0010	.02 MAX	.02 MAX	√MAX

MASS	4.160 lbm
MATERIAL	ASTM A [REDACTED]
CHECKED	[REDACTED]
APPROVED	[REDACTED]
DATE	2019-10-29

WellENGINEERED

121 ILSLEY AVE, UNIT 114, DARTMOUTH
NOVA SCOTIA, CANADA, B3B 1S4
<http://wellengineered.ca/>

TITLE		FASTENING PIPE						
<table border="1" style="font-size: small;"> <tr> <td>[REDACTED]</td> <td>ANGLE PROJECTION</td> </tr> <tr> <td>B</td> <td></td> </tr> </table>	[REDACTED]	ANGLE PROJECTION	B		DRAWING N°	PO25-0003-00	REV	A
[REDACTED]	ANGLE PROJECTION							
B								
SCALE 3:4		SHEET 1 OF 1						

Appendix G – Hoarding Information

Opaque construction hoarding material shall covering and be adequately secured to the rigid fencing that outlines the encroachment area. This covering shall be continuous such that it prevents passersby or tourist from seeing through the fencing and gates to the active construction site.

UltraMesh® Eclipse® if a 7.96 oz. which is a polyester, black-backed mesh that is used where complete opacity is required.

UltraMesh Eclipse is UV printable for project renderings and is typically used for building and fence graphic wraps. The product is available in widths of 126” and 196”.

Product example is shown below with the technical data sheet on the following page.

Tarp Option



Print Banner Option



UltraMesh Eclipse is a 7.96 oz. polyester, black-backed mesh. The material is ideal for applications where complete opacity is required. UltraMesh Eclipse is UV printable and may be used for building wraps and fence graphics. Available in widths of 126 and 196 .

Material Details

CHARACTERISTICS	TEST METHOD	METRIC	ENGLISH
Base Fabric	100% PES	1000D×1000D	
Construction			12×12
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.)

Appendix H – Project Information Board



PROPOSED MILLS DEVELOPMENT

5486 SPRING GARDEN ROAD

180 UNIT RESIDENTIAL BUILDING WITH
5 TOWNHOMES, 31,520 SF COMMERCIAL
SPACE & UNDERGROUND PAKING

March 2021 – June 2023

Owner:

Westwood Construction Limited
5881 Spring Garden Road, Suite 100
Halifax, NS, B3H 4S3

Contact: Jamie Haddad – 902-830-1551
24 Hour Emergency contact

Contractor:

Bird Construction Company
20 Duke Street, Bedford, NS, B4A 2Z5
Contact: 902-835-8205

Traffic Control:

Eastern Traffic Services
Rocky Lake Drive, Bedford, NS, B4A 3Z2
Contact: John Smith – 902-209-2902

Rodent Control Company:

Rentokil Pest Control
51 Duke Street, Bedford, NS, B4A 2Z2
Contact: 902-835-2304

Appendix I – Project Safety Signage

**NO
TRESPASSING**

 **WARNING**

CONSTRUCTION SITE




To reduce risk of injury,

- Hard Hat
- Safety Shoes

MUST be worn on this site.

RESTRICTED
— AREA —

CONSTRUCTION
WORK IN
PROGRESS

Appendix J – 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 K – Sample Traffic Notification Letter

PROPOSED MILLS DEVELOPMENT

5486 Spring Garden Road

DRAFT NOTIFICATION LETTER

TO WHOM IT MAY CONCERN

Date

NOTIFICATION OF TRAFFIC DISRUPTION: STREET NAME, HALIFAX, NOVA SCOTIA

This is to inform you that the to facilitate operations in association with the Multi-Unit Residential Building and townhouse construction work, traffic disruptions will occur on or about DATE with an anticipated duration of approximately TIME. The street will be reduced(?) to one lane of vehicular traffic during this time.

Should you have any questions or concerns please feel free to contact the below:

CONTACT INFORMATION

General Contractor:

Bird Construction Company

20 Duke Street

Bedford, NS

B4A 2Z5

Phone: (902) 835-8205

Should any questions arise, please feel free to contact the undersigned.

Yours Truly,

Contact Name

Bird Construction Company

Appendix L - Vehicular and Pedestrian Hazard Assessment

Project Name

Date: 1-May-20

Location: 205 Bedford Highway

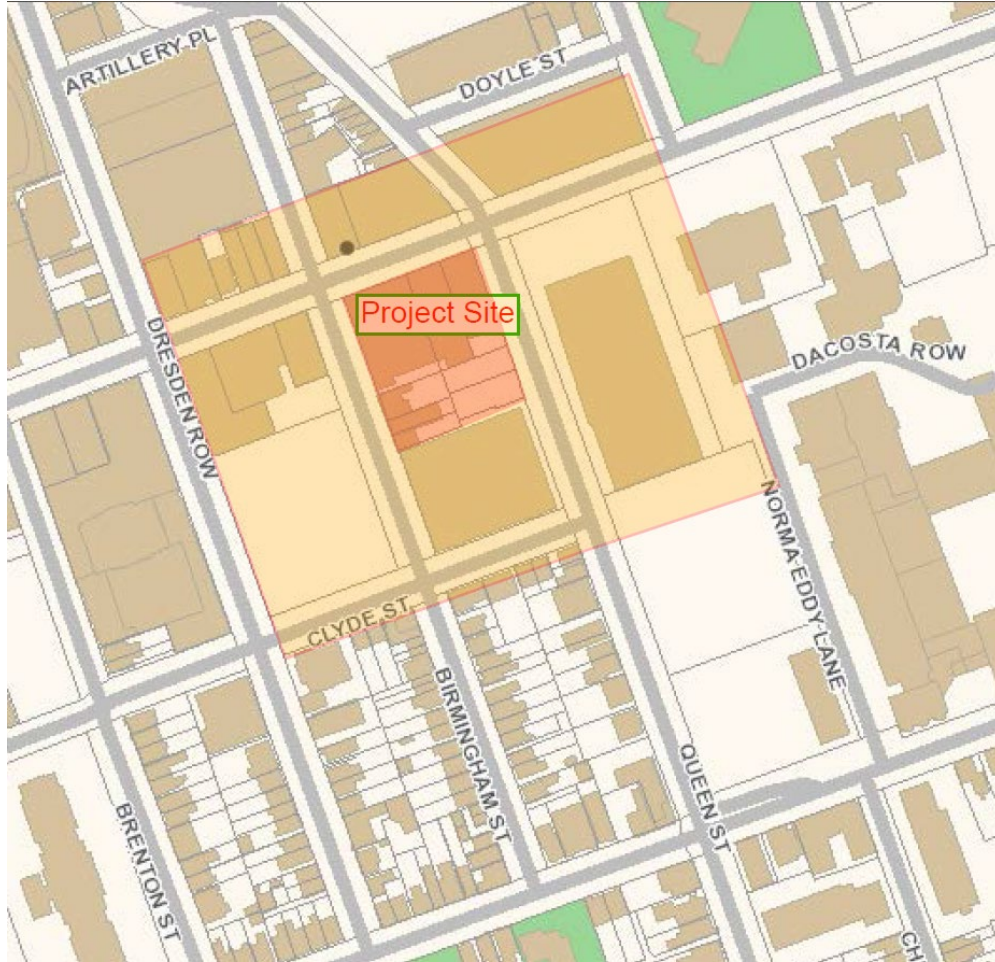
VEHICULAR & PEDESTRIAN HAZARD ASSESSMENT

No.	Hazard:	Project Phase:	Vehicle 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.	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 may strike 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 M - Community Consultation Records

COMMUNITY CONSULTATION MAP OVERVIEW

Project – 5486 SPRING GARDEN ROAD



Notification Letter

Date: *****

Westwood Construction Limited – Building Construction Information Meeting

Dear Neighbour,

As you may be aware, we are planning a Multiunit residential and commercial building project at 5486 Spring Garden Road, Halifax.

If you are 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 please contact us to discuss. We would be happy to meet with you to discuss.

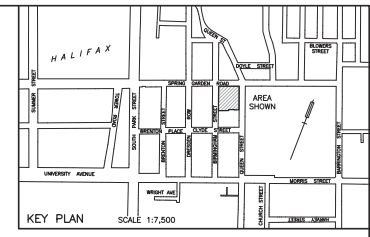
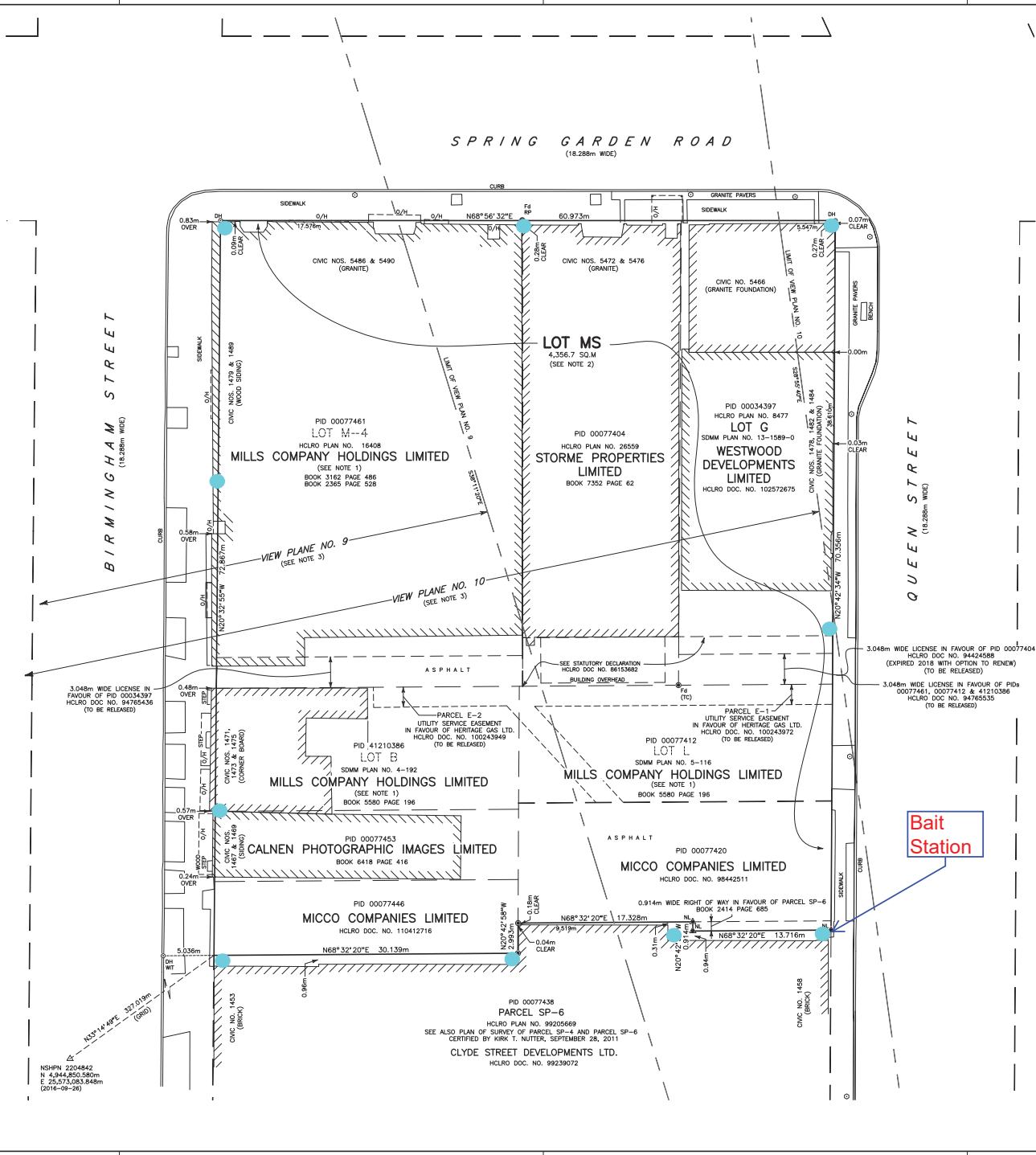
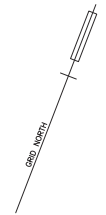
Thank you.

Jamie Haddad

Phone 902-425-7500

Email: office@westwoodgroup.ca

Appendix N – Rodent Control Plan



LEGEND

- PERIMETER OF LANDS SURVEYED
- △ NSHPN NOVA SCOTIA HIGH PRECISION NETWORK MONUMENT
- SURVEY MARKER SET
- ⊙ ROCK POST
- ⊙ DH DRILL HOLE SET
- △ NL NAIL SET WITH PLASTIC CAP
- ⊙ LIGHT STANDARD
- HCLRO HALIFAX COUNTY LAND REGISTRATION OFFICE
- WIT WITNESS POINT SET ON PROLONGATION OF BOUNDARY
- PID PARCEL IDENTIFICATION NUMBER
- FA FOUND
- (TO) THOMPSON CONN LIMITED
- SQ.M SQUARE METERS
- O/N OVERHANG
- CONC CONCRETE

Bait Station

-

Rodent Control Plan

-

Prepared for

Rentokil Atlantic

-

902-835-2304

-

51 Duke Street, Bedford, NS

Bait Station

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
BLOXTM



CONTRAC[®]
ALL-WEATHER BLOXTM

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.

NET WT:
18 lbs (8.2 kg)

CONTRAC[®]

ALL-WEATHER BLOX[™]

KILLS RATS, MICE, AND MEADOW VOLE^{*}

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

This 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 hotted 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 whenever 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 harvii*), Golden mouse (*Reithrodontomys multivittatus*), Polynesian rat (*Rattus exulans*), Meadow vole (*Microtus pennsylvanicus*), White-footed mouse (*Peromyscus leucopus*), White-throated woodrat (*Neotoma albigula*), Southern plains woodrat (*Neotoma microps*), 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 harboring or attaching 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.

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 gabled 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 VOLE^{*}: 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

HAZARD 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 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 may also 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.

Product Code: CB4051 09041509-15

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 #2872-56-7): 0.005%
 OTHER INGREDIENTS: 99.995%
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 (8.2kg)

EPA REG. NO. 12455-79 EPA EST. NO. 12455-WF-1



587 CB-9



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.

Rentokil

Ehrlich | Western | Presto-X
Your Local Pest Control Experts

PestNetOnline

The complete online
pest management
and reporting solution

Randy Hobbs
Account Executive



What is PestNetOnline?

Online reporting and analysis of all pest activity

- Intuitive and easy to use
- Complete visibility to minimize risks
- Increased efficiency with information at your fingertips
- Minimize exposure with all your pest control records and data in one place
- Stay in control with a smartphone app

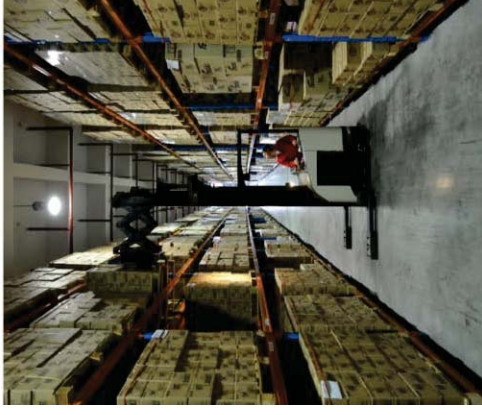


Who is PestNetOnline for?

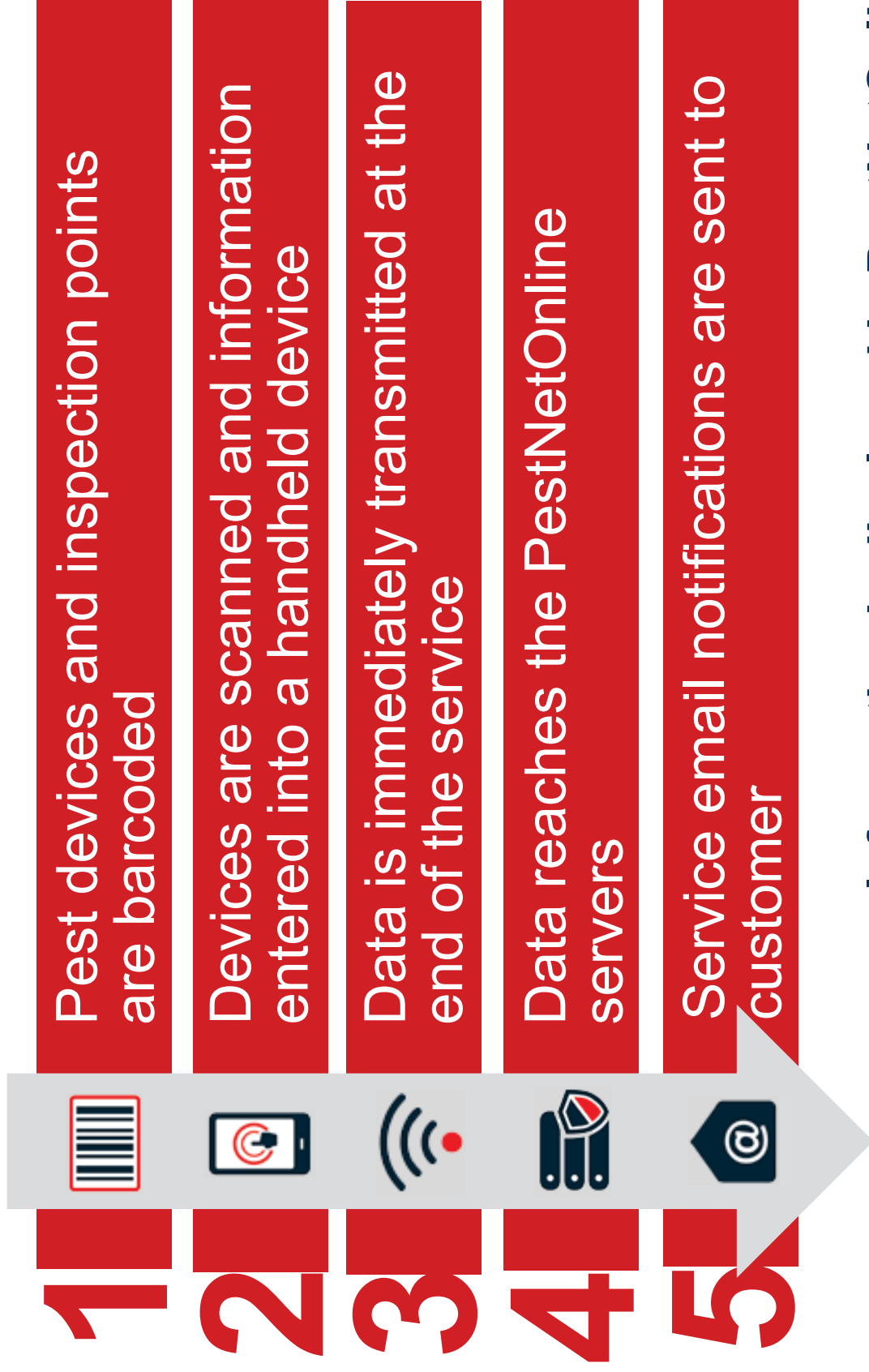
For Food and Beverage, Pharmaceutical, Logistics, Healthcare, Commercial/Residential Property, and Retail... any business that needs online pest management and reporting

Offering:

- Personalized Dashboard
- Multiple and Single Site Locations
- Trend Analysis
- Detailed Service Reports
- Recommendation System
- Interactive Site Maps
- Documentation Availability
- Material Usage Reports
- Proof of Service



How PestNetOnline works...



PestNetOnline

**Information is displayed in PestNetOnline
and mobile applications**

PestNetOnline

Single site locations

- Provides a comprehensive review of all visit details
- Pest Activity and Recommendation charts summarizing at a high level all issues
- Visit Filters allowing you to quickly locate series of visit and types of visits
- Review and reprint any Proof of Service
- Navigation tabs take you directly to Tasks, Recommendations, Pest Activity and Material Usage detail screen – quickly and easily

The screenshot displays the PestNetOnline web application interface. At the top, a red navigation bar contains the logo and site name. Below this, a dashboard area shows various metrics and charts. The main content area is divided into several sections: a 'Site Overview' section with a bar chart of recommendations by age, a 'Recommendations outstanding' table, a 'Rentokil Visits' pie chart, and a 'My Contract' section with contract details. The 'Recommendations outstanding' table lists five structural issues with their IDs, visit dates, and statuses. The 'Rentokil Visits' pie chart shows a breakdown of 71.4% routine visits and 28.6% callout visits. The 'My Contract' section provides details such as contract number, start date, and number of visits per year.

PestNetOnline Welcome Client Name [Logout](#) Site Name [Contact Us](#)

Dashboard Reporting Service History Audit Compliance Documents

Site Overview export data

Recommendations outstanding

Recommendations chart by age

Number of Recommendations

ID	Visit date	Type	Status	Detail icon
45	11/04/2014	Structural	●	ⓘ
44	11/04/2014	Structural	●	ⓘ
43	11/04/2014	Structural	●	ⓘ
42	11/04/2014	Structural	●	ⓘ
41	11/04/2014	Structural	●	ⓘ

Modify Alert Previous 1 2 3 Next

12 Pending recommendations 0 Un-acted recommendations

Contact us about your recommendations

Site summary Pest activity alerts Manage recommendations

5701 Park Ave

Last Visit Date 11/04/2014

Filler Result By: Zones With Activity

Building	Floor	Zone	Activity	Recommendations
BUILDING	FLOOR	Exterior	Yes	0
BUILDING	FLOOR	Interior	Yes	1

Update

Previous 1 Next Show 100

Rentokil Visits (over the last 12 calendar months) more

Rentokil visits breakdown

ROUTINE-71.4% CALLOUT-28.6%

My Contract

Contract Number: 05003654,20013654,20021706
Start Date: 22/07/2013
Number of routine visits per year: 0
Number of inspections per year: 0
ISO 9001: No
Services Provided:
Special Arrangement:
Site Risk Assessment:

PestNetOnline

- For multi site locations
- A dashboard that summarizes all activity
- My Sites allows you to see an overview of your locations
- Navigation shortcuts allowing you to quickly and effortlessly research visit activity
- Link to all related information
- Export data for custom analysis

Welcome John Smith

PestNetOnline

Dashboard Reporting Contact Us

My Sites Overview - you have access to 432 sites

Breakdown of your sites

- Sites with Pest activity -30.0%
- Sites with Pest activity and Open Recommendations -6.7%
- Sites with no Pest activity -63.3%

Number of Recommendations

Recommendations by Age

- NEW
- PENDING

Across 27 sites you have...

- 30 Pending recommendations
- 24 Un-acted recommendations

Reporting

- Sites with activity in the last 30 days
- Sites with open recommendations
- Create a report for a site or multiple sites

Modify Alert

Filter Results by: All

Breakdown of your sites

Site name	Date of Last Visit	Pest activity	Un-acted Recommendations	Pending Recommendations	Recommendations (older than 90 days)
101 ENTERPRISE	23/09/2013	House mice	0	2	2
200 DISTRIBUTION DR. BLDG #934	23/01/2012	No	0	0	0
200 DISTRIBUTION DR. BLDG #496	21/04/2014	No	0	0	0
200 DISTRIBUTION DR. BLDG #796	16/04/2014	No	0	0	0
301 DISTRIBUTION DR. BLDG #359	16/04/2014	Miscellaneous-light flying,Fruit beet	3	2	5

Previous 1 2 3 4 Next

export data

PestNetOnline

The screenshot displays the PestNetOnline web application interface. At the top, there is a navigation bar with the PestNetOnline logo and a search bar. Below the navigation bar, there are several tabs: Dashboard, Reporting (which is currently selected), and Contact Us. The main content area is titled 'Existing reports' and contains a 'Create new' button. Below this, there is a form titled 'Create a new report' with a text input field for 'Please enter a report title...'. The form is divided into several sections: 'Pest Activity' with a dropdown menu set to '1) Select report type and location'; 'Type of report' with radio buttons for 'All', 'Pest activity', 'Recommendations', and 'Preparations'; 'What format should the report be' with radio buttons for 'Excel' and 'pdf'; 'Where would you like this report emailed to?' with a text input field containing 'john.pierfer@rentokill.com'; 'When would you like the report to run?' with radio buttons for 'One Off' and 'Scheduled'; 'What site locations would you link to report on?' with radio buttons for 'All', 'Internal', and 'External'; and 'Which sites would you like to report on?' with a list of two sites: 'PestNetOnline Demo Account (E) (High Dependency)' and 'PestNetOnline Demo Account (A) (Commercial)'. Each site has a checkbox and a green checkmark. A 'continue' button is located at the bottom right of the form.

Analysis and reports

- Provides quick, ad-hoc snapshot analysis reporting on all pest and device type activity
- Reports can be created to document Pest Activity, Recommendations, Visit Performance, Task Performance and Material Usage
- Reports are distributed to you via email
- Can be created and ran once, or proactively scheduled on a Daily, Week, Monthly or Quarterly based upon your needs
- Many options available to customize a snapshot view of Pest Activity

PestNetOnline

The screenshot displays the PestNetOnline web application interface. At the top, there is a navigation bar with the following elements: "Welcome Client Name", "Site Name", "Contact Us", "Documents", "Audit Compliance", "Service History", and "Reports". Below this is a sidebar with "Dashboard" and "Reports" tabs. The main content area is titled "Recommendations analysis" and "Analysis of recommendations by Type". It features a "Filter results" section with dropdown menus for "Building", "Floor", "Zone", "Recommendation status", and "Recommendation types", along with "Reset Filters" and "Update" buttons. A "Date from" field is set to "20/02/2014" and a "Date to" field is set to "20/01/2015". The "Number of Recommendations" bar chart shows data for "825 Bluff Rd" from March 2014 to November 2014. The chart uses a legend with "Sanitation" (red), "Structural" (blue), and "Equipment" (green). A "Notes" field is present at the bottom right.

Month	Sanitation	Structural	Equipment
Mar 2014	1	1	0
Apr 2014	0	0	1
May 2014	1	0	0
Jun 2014	0	0	0
Jul 2014	2	0	0
Aug 2014	2	1	0
Sep 2014	1	0	0
Oct 2014	1	0	1
Nov 2014	2	0	0

- Options to review an entire worksite, or specific Buildings / Floor / Zones within your worksite

- Feature rich with multiple date range options

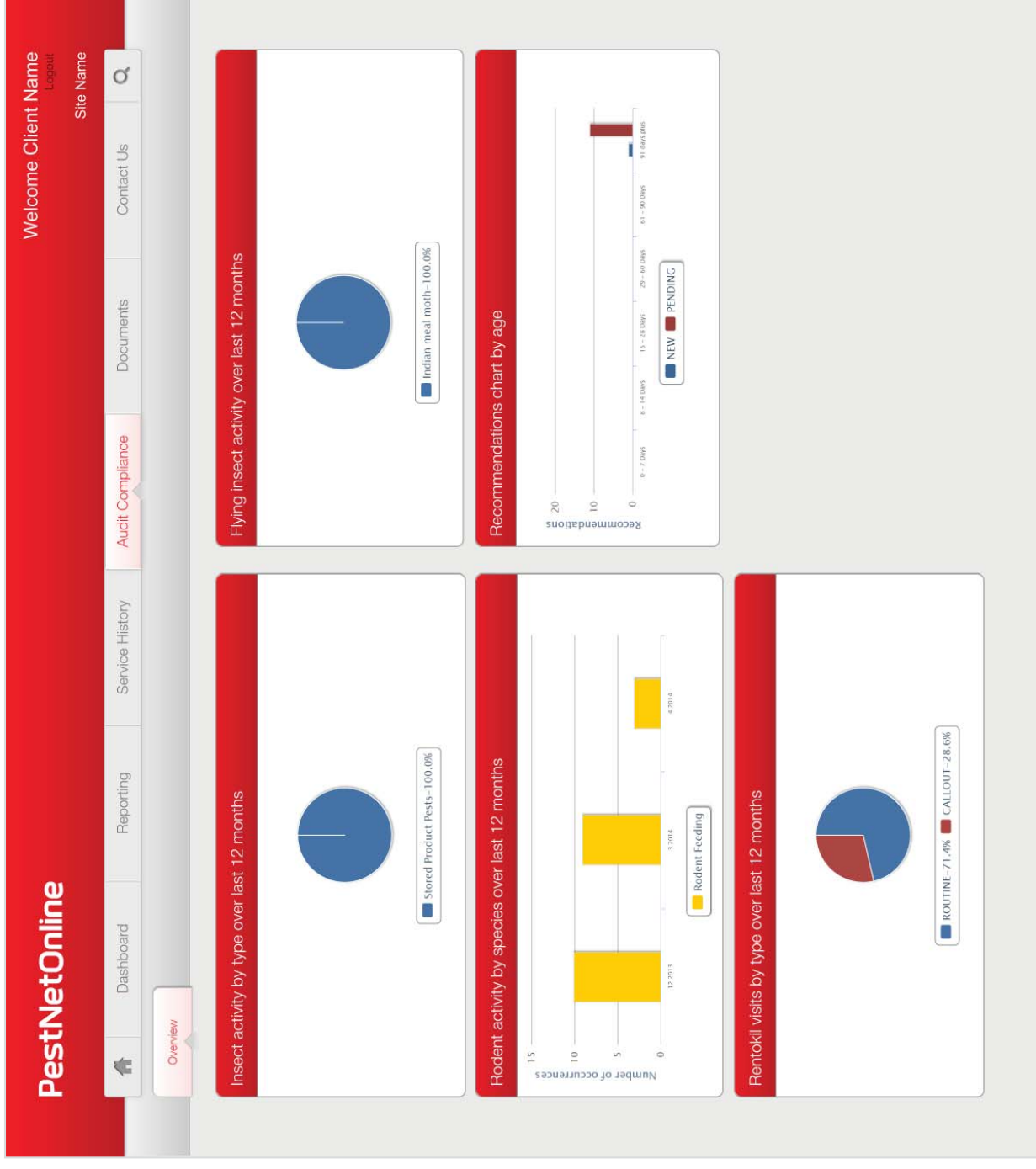
- Provides quick, ad-hoc snapshot analysis on all pest activity

- Add commentary to charts

PestNetOnline

For high dependency customers

- A dedicated Audit Checklist page
- For AIB, BRC, and other 3rd Party Auditors, a single page that brings together all necessary visit details and links to related information



PestNetOnline

Site plans for high dependency and commercial customers

- Provide a interactive, graphic representation of device location
- Filters allow you to locate specific types (Mechanical Rodent Traps, Pheromone, etc.) quickly and easily
- Site Maps may also be printed if desired

The screenshot displays the PestNetOnline web application interface. At the top, a red header contains the text "PestNetOnline" and "Welcome Client Name" with a "Logout" link. Below the header is a navigation menu with buttons for "Dashboard", "Reporting", "Service History", "Audit Compliance", "Documents", and "Contact Us". A search bar is located on the right side of the navigation menu.

The main content area is divided into several sections:







- Site Overview:** A red bar with "export data" and "Recommendations outstanding" buttons.
- Recommendations chart by age:** A bar chart showing the number of recommendations over time.
- Site summary:** A section titled "5701 Park Ave" with "Last Visit Date" and "Building" information.
- Site Map:** A large floor plan titled "PestNetOnline Demonstration Floor Plan" for "1335 Main Street, Oakville, OH", revised on "Sept 05, 2014". The map shows various rooms and areas, including a Compressor Room, Maintenance Area, Front Office, Break Room, Washroom, Pantry, Candy Room, Commissary, Cooler, Office, and Loading Dock. Numerous detector locations are marked with numbered icons (e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46) and labeled with detector types such as "ISP001", "ISP002", "ISP003", "PHE 001", "PHE 002", "PHE 003", "PHE 004", "PHE 005", "PHE 006", "PHE 007", "ISP POWER", "Mechanical Rodent Traps", and "Pheromone".

At the bottom of the interface, there are filters for "Detector types" (set to "All") and "Floor plans" (set to "All Areas: All Floors"). A "Pest activity map" button is also visible.

PestNetOnline

Site Documents,
available to all users of
PestNetOnline
complements all printed
log book information
electronically

The screenshot displays the PestNetOnline web application interface. At the top, a red navigation bar contains the 'PestNetOnline' logo on the left and a user profile area on the right with the text 'Welcome Client Name', a 'Logout' link, and a 'Site Name' field with a search icon. Below the navigation bar is a horizontal menu with buttons for 'Dashboard', 'Reporting', 'Service History', 'Audit Compliance', 'Documents', and 'Contact Us'. The 'Documents' button is highlighted. The main content area features a 'Documents list' section with a red header. The list contains several document entries, each with a title, creation and expiration dates, and a download icon. The entries are grouped by red horizontal bars.

TECH LICENSES, BUSINESS LICENSES, TRAINING CERTIFICATES	
Rentokill Background Check policy Created by : 04/04/2014 Version : 1 Expired by :	
Technician License - John Doe Created by : 03/10/2014 Version : 1 Expired by : 06/30/2016	
GMP Training Certificate - John Doe Created by : 01/01/2014 Version : 1 Expired by :	
INSURANCE CERTIFICATES	
Insurance Certificate Created by : 01/01/2014 Version : 1 Expired by : 31/12/2014	
FACILITY ASSESSEMENTS	
IPM Facility Assessment 2014 Created by : 03/01/2014 Version : 1 Expired by :	
IPM Facility Assessment 2013 Created by : 14/01/2013 Version : 1 Expired by :	

PestNetOnline Smartphone App

- **Home Screen**
 - Open recommendations
 - Instances of activity (last 90 days)
- **Recommendations**
 - Open recommendations total and by site
 - Open recommendations within a single site
 - Individual recommendation detail
 - Update the recommendation on the spot!
- **Activity**
 - Overall activity and activity instances by site
 - Last 90 days activity within a single site
 - Activity details and materials used
- **Site list and recommendation and activity indicators**
- **Email alerts creation**



PestNetOnline Flexibility

PestNetOnline offers three levels of functionality

- Whether you are a homeowner, local retailer, business with multiple branches or manufacturer, PestNetOnline will meet all of your business needs

Level	Residential	Commercial	High Dependency
Functionality	Privately owned residences, condos, and townhouses	Commercial organizations that do not require third party audit support	Businesses and organizations who utilize any third party audit group
Barcode Structure	One barcode is required	✓	✓
Materials Usage	Only through reporting	✓	✓
Pest Activity	✓	✓	✓
Updating Recommendations	✓	✓	✓
Visit Details	✓	✓	✓
Single Site Reporting	✓	✓	✓
Documents	✓	✓	✓
Reports	✓	✓	✓
Smartphone app (lite version)	✓	✓	✓
Alerts	X	✓	✓
Multi-Site Reporting	X	✓	✓
Detector History	X	✓	✓
Trends Analysis	X	✓	✓
Tasks	X	✓	✓
Site Plans	X	X	✓
Audit Compliance	X	X	✓

PestNetOnline

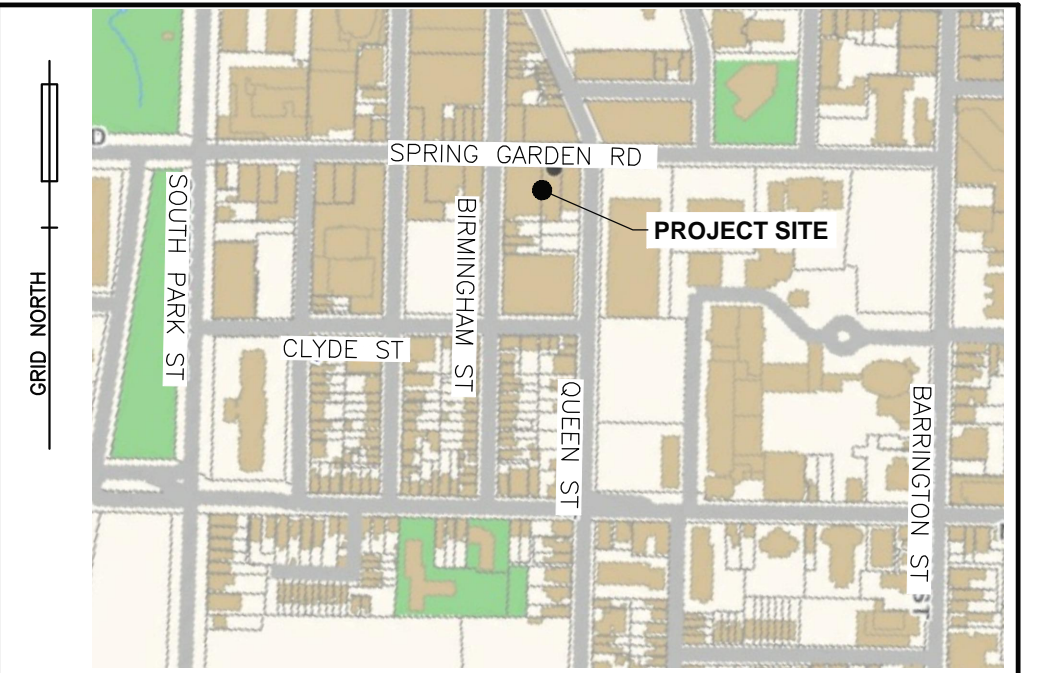
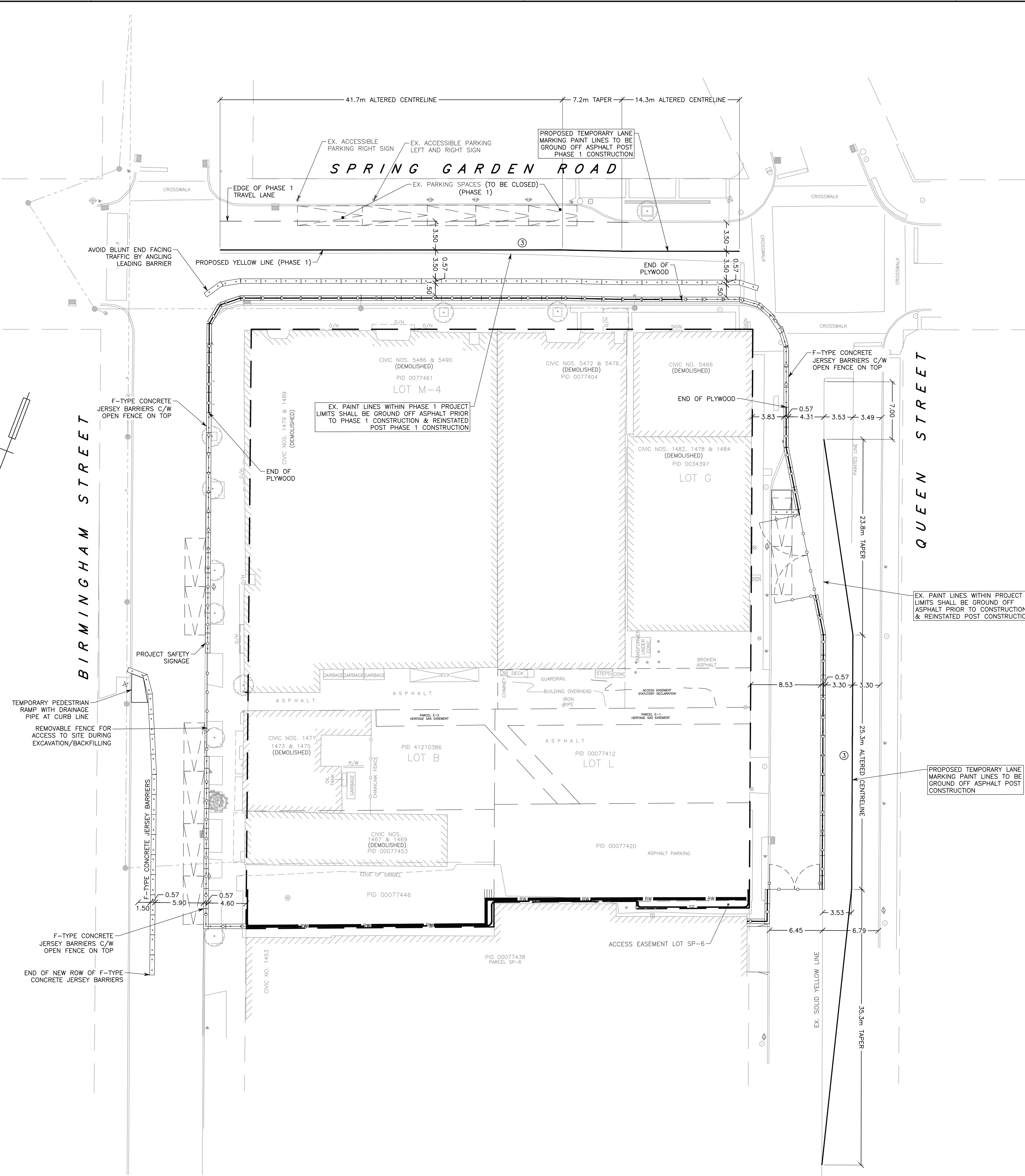
For more information visit pno1.rentokilna.com

Appendix O – CMP's TCP & PMP Inspection Records

Appendix P – Concrete Delivery Schematic

Appendix Q – Line Painting Plan

PAVEMENT MARKINGS				
IDENTIFICATION	TYPE	WIDTH	COLOR	QUANTITY
①	STOP BAR	450 mm	WHITE	N/A
②	CROSSWALK LINE	200 mm x 2	WHITE	N/A
③	SINGLE CENTRELINE	100 mm NOT TO BE PAINTED THROUGH INTERSECTIONS	YELLOW	151.37m
④	DOUBLE CENTRELINE	100 mm x 2 NOT TO BE PAINTED THROUGH INTERSECTIONS	YELLOW	N/A
⑤	SOLID C WITH BROKEN 3x6 LINE	100 mm	YELLOW	N/A
⑥	LANE & BIKE LINES	100 mm	WHITE	N/A
⑦	BROKEN LINE 3x3	100 mm	WHITE	N/A
⑧	BROKEN LINE 3x6	100 mm	WHITE	N/A
⑨	BIKE LANE DASHED LINE 1.5x1.5	100 mm	WHITE	N/A
⑩	HATCH	100 mm LANE LINES WITH 600 mm HATCH LINES, 6.0 m SPACING	YELLOW	N/A
⑪	HATCH	100 mm LANE LINES WITH 600 mm HATCH LINES, 6.0 m SPACING	WHITE	N/A
⑫	ARROW	3/4 TAC SIZE	WHITE	N/A
⑬	RESERVED LANE SYMBOL	3/4 TAC SIZE	WHITE	N/A
⑭	BIKE SYMBOL		WHITE	N/A
⑮	SHARED USE LANE SYMBOL		WHITE	N/A
⑯	ZERBA CROSSWALK	600 mm	WHITE	N/A



LEGEND		
EXISTING		PROPOSED
25.0	CONTOUR LINE	25.0
⊗/⊗BF	CURB STOP/GATE/BUTTERFLY VALVE	⊗/⊗BF
⊕	FIRE HYDRANT	⊕
⊕	CONCRETE THRUST BLOCK	⊕
⊕	SIAMESE CONNECTION	⊕
⊕	CATCH BASIN/PIT	⊕
⊕	CULVERT	⊕
⊕	ROCK LINING/DAM	⊕
⊕	ROCK WALL/RETAINING WALL	⊕
⊕	POWER POLE & ANCHOR/LIGHT STANDARD	⊕
⊕	TREE	⊕
⊕	STREET SIGN/PARKING METER	⊕
× 131.82	ELEVATION/GRADE	[125.00] × / + 125.00
⊕	TEST PIT	⊕
⊕	DRAINAGE/SWALE FLOW DIRECTION	⊕
W	WATER MAIN/SERVICE	W
SAN	SANITARY MANHOLE & PIPE	SAN
STM	STORM MANHOLE & PIPE	STM
SAN/STM	COMBINED PIPE	SAN/STM
GAS	GAS LINE	GAS
FL	100YR. FLOOD LIMIT	FL
⊕	GUARD RAIL	⊕
⊕	UNDERGROUND CONDUIT	⊕
⊕	OVERHEAD WIRES	⊕
⊕	PROPERTY LINE/BOUNDARY	⊕
⊕	FENCE	⊕
⊕	BUILDING	⊕
⊕	TOP OF SLOPE	⊕
⊕	TDE OF SLOPE	⊕
⊕	TREELINE	⊕
⊕	LIMITS OF DISTURBANCE	⊕
⊕	TACTILE PEDESTRIAN PLATES	⊕
⊕	PROJECT SAFETY SIGNAGE	⊕
⊕	ORANGE SAWHORSE BARRICADE	⊕

NOTES
 1. THIS PLAN IS IN METRIC.

APPROVED BY _____ DATE _____
 FOR THE APPROVAL OF ALTERED CENTRELINE ONLY. ALL OTHER ASPECTS OF THIS TEMPORARY TRAFFIC CONTROL PLAN MUST FOLLOW THE TEMPORARY CONTROL MANUAL, LATEST EDITION.

No.	YY/MM/DD	Revision	Description	Appr'd
4	21/03/05	REVISED	PROTECTED SIDEWALK	
3	21/02/03	REVISED	AS PER CLIENT COMMENTS	
2	20/12/14	ADDED	PROTECTED SIDEWALKS & TEMP. CROSSWALK	
1	20/12/02	REVISED	AS PER CLIENT COMMENTS	
0	20/12/01	ISSUED	FOR REVIEW	

REGISTERED PROFESSIONAL ENGINEER
 G.K. MacLean
 8978
 PROVINCE OF NOVA SCOTIA

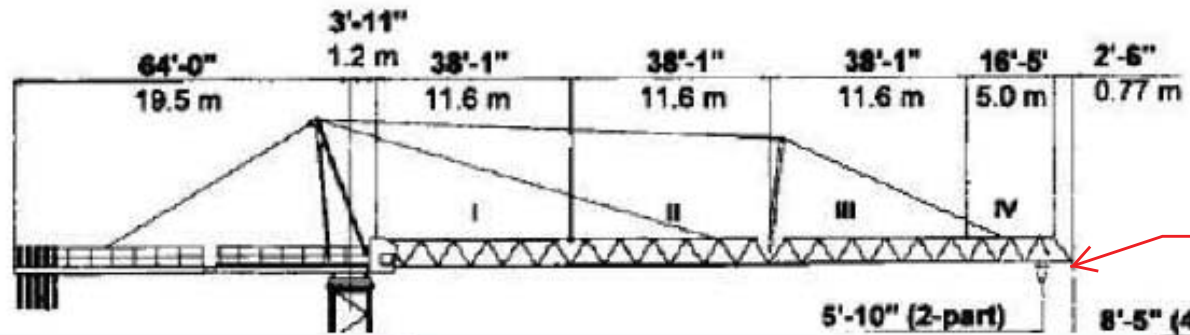
SDMM
 Servant, Dunbrack, McKenzie & MacDonald Ltd.
 NOVA SCOTIA LAND SURVEYORS & CONSULTING ENGINEERS
 36 GLAND CRESCENT
 BAYVIEW LANE BUSINESS PARK
 HALIFAX, NS B3S 1G8
 PHONE: (902) 455-1537
 FAX: (902) 455-8479
 WEB: www.sdmm.ca

THE MILLS DEVELOPMENT
 5486 SPRING GARDEN ROAD
 HALIFAX, NOVA SCOTIA

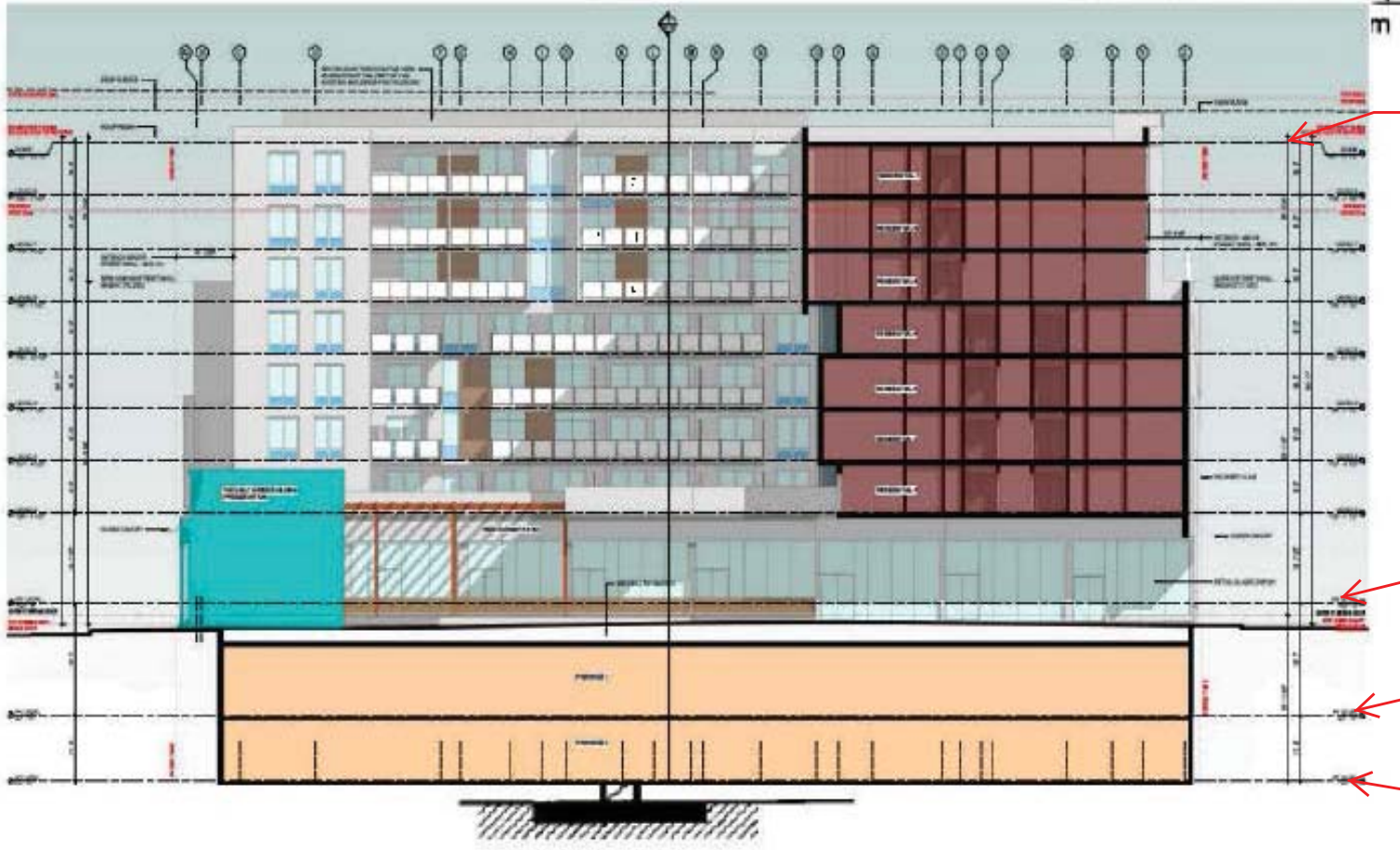
LINE PAINTING SCHEMATIC		
Date DECEMBER 1, 2020	Drawn C. PORTER	Project No. FILE NO. 1-1-130 (35587)
Scale 1:250	Engineer G. MACLEAN	Plan No. 16-2412-4
Reference ---	Approved G. MACLEAN	Drawing Name R3
Surveyed SDMM	Sheet	



Appendix R – Crane Information



Boom Elevation
+/- 68.78m



Top of Roof
Elevation
+/- 58.78m

Ground Level
Varies

P1
+/- 28.32m

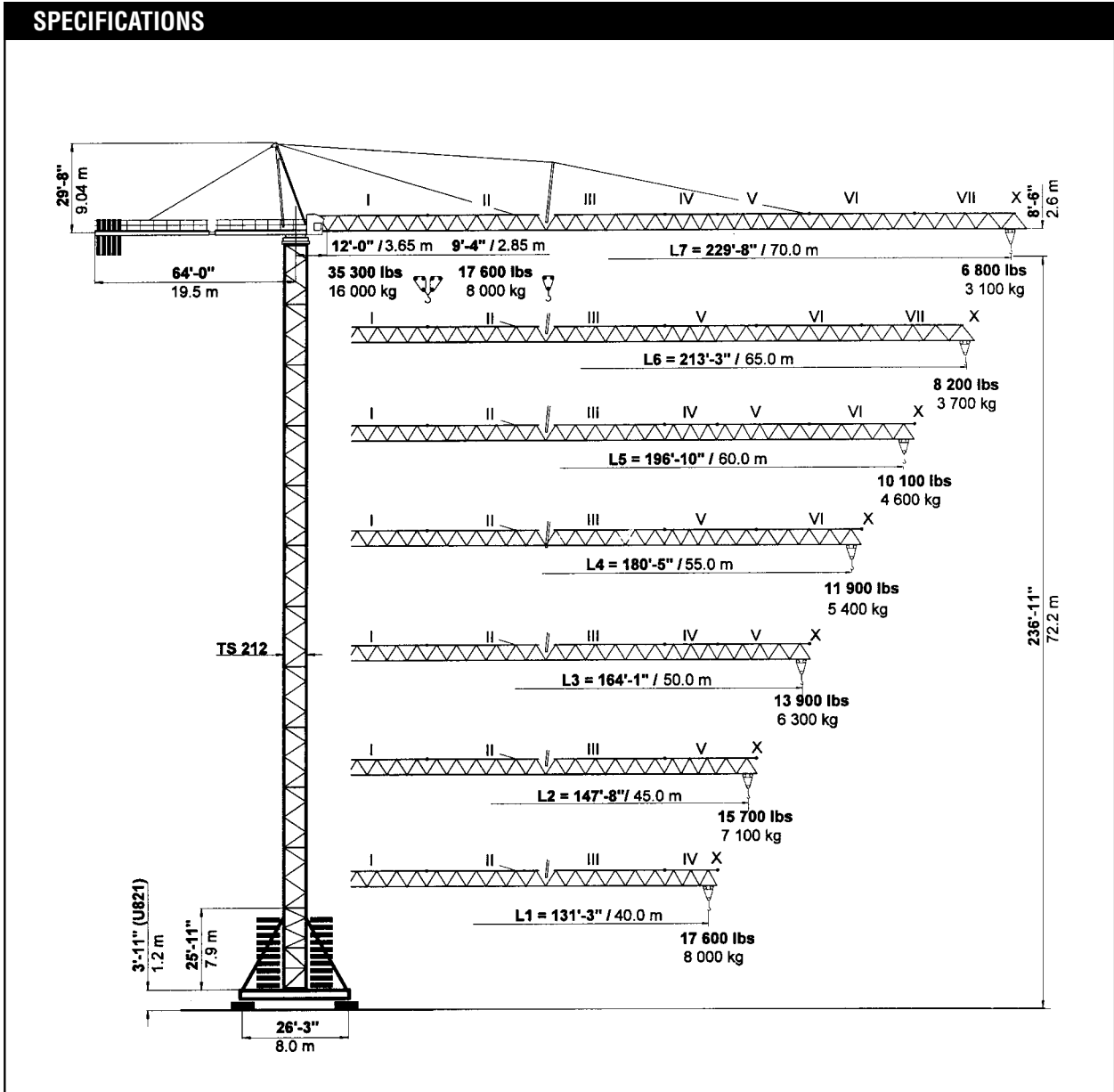
P2
+/- 24.81m



PEINER SK 315

Hammerhead Tower Crane
 17,600-35,300 lbs. (8-16 mt)
 Lifting Capacity

SPECIFICATIONS



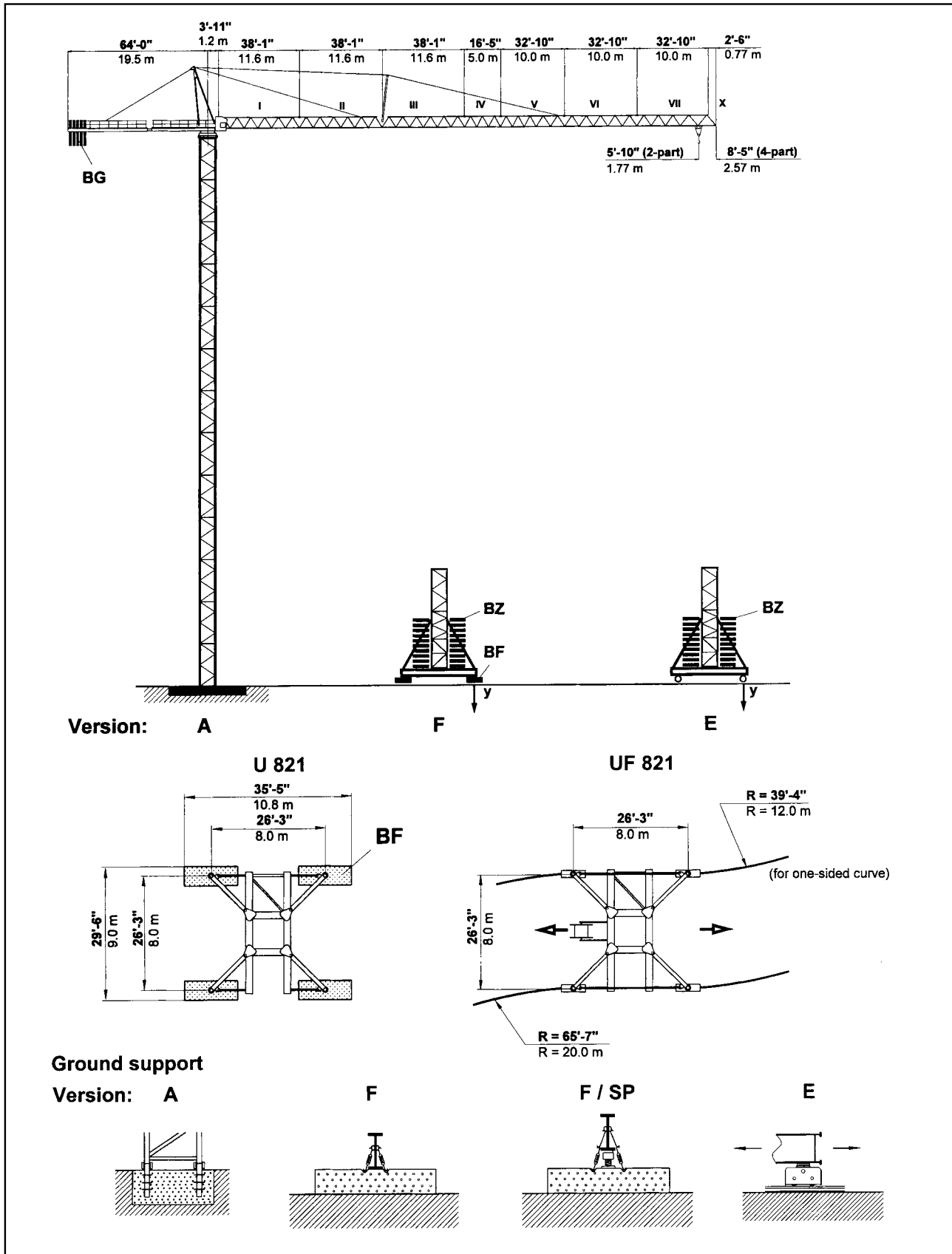
simple, available and
 cost effective™

Machines shown may have optional equipment.

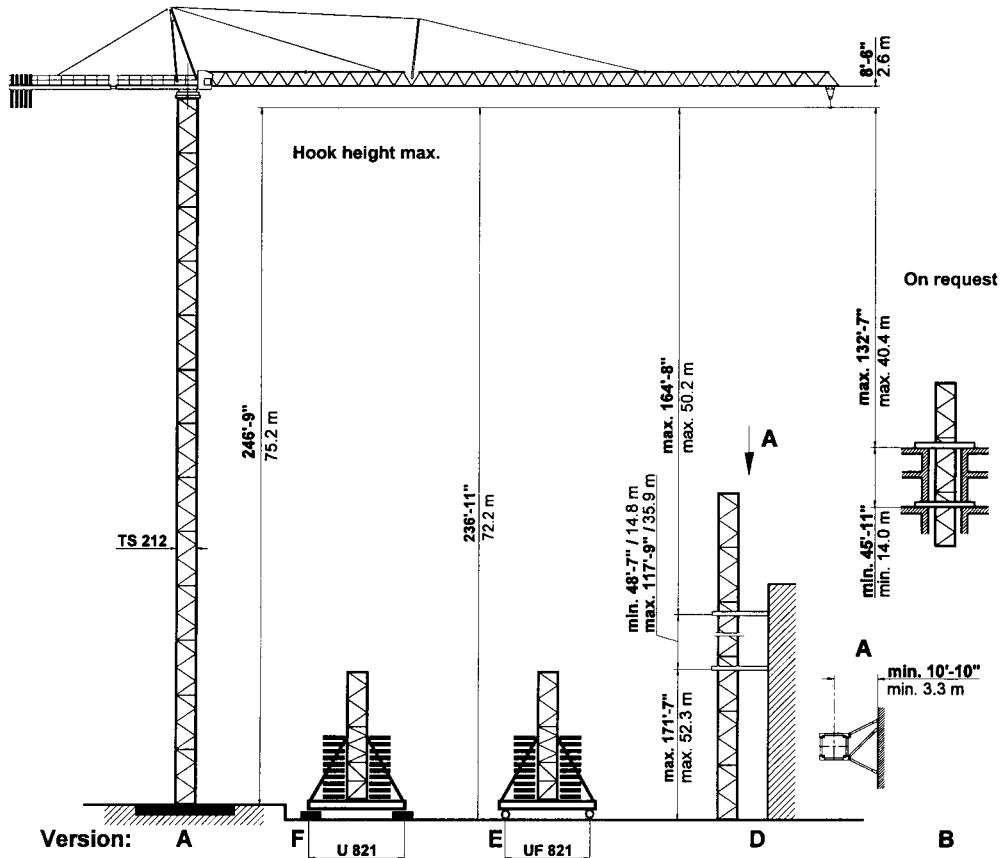


PEINER SK 315

Combinations of tower section, hook heights, forces acting per corner, base ballast



PEINER SK 315 Tower TS 211



TS 212	Version A		Version F			Version E					
	Tower	HH	Tower	HH	BZ + BF	in service	out of service	BZ	in service	out of service	
TS 212.1	ft	m	TSV 212	ft	kips / t	kips / kN	kips / kN	kips / t	kips / kN	kips / kN	
13 x TS 212.1	246'-9"*	75.2*									
12 x TS 212.1	227'-4"*	69.3*	1 x TSV 212	236'-11"*	212.0	204	279	198.0	212	282	
			11 x TS 212.1	72.2*	96	909	1243	90	942	1253	
11 x TS 212.1	208'-0"*	63.4*	1 x TSV 212	217'-6"*	168.0	186	240	154.0	192	242	
			10 x TS 212.1	66.3*	76	826	1066	70	856	1075	
10 x TS 212.1	188'-8"*	57.5*	1 x TSV 212	198'-2"	146.0	173	203	132.0	179	204	
			9 x TS 212.1	60.4	66	770	901	60	797	909	
9 x TS 212.1	169'-4"	51.6	1 x TSV 212	178'-10"	124.0	161	169	88.0	161	169	
			8 x TS 212.1	54.5	56	715	751	40	715	754	
8 x TS 212.1	149'-11"	45.7	1 x TSV 212	159'-5"	101.0	149	145	88.0	154	170	
			7 x TS 212.1	48.6	46	661	645	40	683	654	
7 x TS 212.1	130'-7"	39.8	1 x TSV 212	140'-1"	101.0	142	128	66.0	141	124	
			6 x TS 212.1	42.7	46	633	569	30	629	553	
6 x TS 212.1	111'-3"	33.9	1 x TSV 212	120'-9"	101.0	136	112	66.0	135	108	
			5 x TS 212.1	36.8	46	607	499	30	600	482	
5 x TS 212.1	91'-10"	28.0	1 x TSV 212	101'-5"	101.0	131	98	66.0	129	94	
			4 x TS 212.1	30.9	46	582	435	30	573	418	
4 x TS 212.1	72'-6"	22.1	1 x TSV 212	82'-0"	101.0	126	85	66.0	123	81	
			3 x TS 212.1	25.0	46	559	376	30	548	359	
3 x TS 212.1	53'-2"	16.2	1 x TSV 212	62'-8"	101.0	120	80	66.0	118	75	
			2 x TS 212.1	19.1	46	536	356	30	523	335	
2 x TS 212.1	33'-9"	10.3	1 x TSV 212	43'-4"	101.0	116	80	66.0	112	75	
			1 x TS 212.1	13.2	46	515	356	30	500	335	
Foundation 25'-7" x 25'-7" x 5'-7" 7.8 x 7.8 x 1.7 m			Stationary base U 821			Travelling base UF 821					
Anchor stools 4 x FF 212			BF 4 x 8.82 kips 4 x 4.0 t			BZ block 11.02 kips Block 5.0 t			Bogle Curve F 500		

If TSK 212 section is used the hook height is increased by 6'-7" (2 m).

* Lower climbing section after erection.



TS 212.1 = 19'-4 1/4" / 5.9 m

TSV 212 = 25'-11" / 7.9 m








TSK 212 = 6'-7" / 2.0 m



PEINER SK 315 Radius and Capacity

Jib	Max. capacity max. 17,600 lbs 8.0 t	Radius – ft./m Capacity – lbs./mt																			
		2-Part Line  max. 17,600 lbs max. 8.0 t																			
ft m		75'-6" 23	82'-0" 25	98'-5" 30	114'-10" 35	131'-3" 40	141'-1" 43	147'-8" 45	157'-6" 48	164'-1" 50	173'-11" 53	180'-5" 55	190'-3" 58	196'-10" 60	206'-8" 63	213'-3" 65	223'-1" 68	229'-8" 70			
L7	229'-8" 70.0	9'-4" - 96'-9" 2.85 - 29.5 m	17600 8.0	17600 8.0	17400 7.9	14800 6.7	12800 5.8	11900 5.4	11200 5.1	10600 4.8	10100 4.6	9500 4.3	9000 4.1	8600 3.9	8200 3.7	7700 3.5	7500 3.4	7100 3.2	6800 3.1		
L6	213'-3" 65.0	9'-4" - 105'-0" 2.85 - 32.0 m	17600 8.0	17600 8.0	17600 8.0	16100 7.3	13900 6.3	13000 5.9	12300 5.6	11500 5.2	11000 5.0	10400 4.7	9900 4.5	9300 4.2	8800 4.0	8600 3.9	8200 3.7				
L5	196'-10" 60.0	9'-4" - 117'-9" 2.85 - 35.9 m	17600 8.0	17600 8.0	17600 8.0	17600 8.0	15700 7.1	14600 6.6	13900 6.3	13000 5.9	12300 5.6	11700 5.3	11200 5.1	10600 4.8	10100 4.6						
L4	180'-5" 55.0	9'-4" - 124'-8" 2.85 - 38.0 m	17600 8.0	17600 8.0	17600 8.0	17600 8.0	16800 7.6	15400 7.0	14800 6.7	13900 6.3	13200 6.0	12300 5.6	11900 5.4								
L3	164'-1" 50.0	9'-4" - 130'-11" 2.85 - 39.9 m	17600 8.0	17600 8.0	17600 8.0	17600 8.0	17600 8.0	16300 7.4	15400 7.0	14600 6.6	13900 6.3										
L2	147'-8" 45.0	9'-4" - 131'-11" 2.85 - 40.2 m	17600 8.0	17600 8.0	17600 8.0	17600 8.0	17600 8.0	16500 7.5	15700 7.1												
L1	131'-3" 40.0	9'-4" - 131'-3" 2.85 - 40.0 m	17600 8.0	17600 8.0	17600 8.0	17600 8.0															
ft m	35,300 lbs 16.0 t	4-Part Line  max. 35,300 lbs max. 16.0 t																Radius - 2'-7" (- 0.8 m)			
L7	227'-0" 69.2	12'-0" - 48'-7" 3.65 - 14.8 m	21800 9.9	19600 8.9	16100 7.3	13200 6.0	11200 5.1	10400 4.7	9700 4.4	9000 4.1	8600 3.9	7900 3.6	7500 3.4	7100 3.2	6600 3.0	6200 2.8	6000 2.7	5500 2.5	5300 2.4		
L6	210'-8" 64.2	12'-0" - 52'-2" 3.65 - 15.9 m	23800 10.8	21600 9.8	17400 7.9	14600 6.6	12600 5.7	11500 5.2	10800 4.9	9900 4.5	9500 4.3	8800 4.0	8400 3.8	7700 3.5	7500 3.4	6800 3.1	6600 3.0				
L5	194'-3" 59.2	12'-0" - 57'-9" 3.65 - 17.6 m	26900 12.2	24500 11.1	19800 9.0	16800 7.6	14300 6.5	13000 5.9	12300 5.6	11500 5.2	10800 4.9	10100 4.6	9700 4.4	9000 4.1	8600 3.9						
L4	177'-10" 54.2	12'-0" - 61'-0" 3.65 - 18.6 m	28700 13.0	26000 11.8	21200 9.6	17900 8.1	15200 6.9	14100 6.4	13200 6.0	12300 5.6	11700 5.3	10800 4.9	10400 4.7								
L3	161'-5" 49.2	12'-0" - 63'-8" 3.65 - 19.4 m	30200 13.7	27300 12.4	22300 10.1	18700 8.5	16100 7.3	14800 6.7	14100 6.4	12800 5.8	12300 5.6										
L2	145'-0" 44.2	12'-0" - 64'-0" 3.65 - 19.5 m	30400 13.8	27600 12.5	22500 10.2	19000 8.6	16300 7.4	15000 6.8	14100 6.4												
L1	128'-7" 39.2	12'-0" - 66'-3" 3.65 - 20.2 m	31700 14.4	28700 13.0	23600 10.7	19800 9.0	17000 7.7														

Speeds

FU 8-160/4		v = 0 → ~290 fpm (88 m / min.)	10.2 HP 7.5 kW																	
SR 10-190/3		v = 0 → ~96 fpm (30 m / min.)	2 x 16.3 HP 2 x 12.0 kW																	
K WB 120/4		v = 0 → 0.9 rpm (min ⁻¹)	2 x 11.4 HP 2 x 8.4 kW																	
 HK max. = 705' (215 m) 6 - layers			480 V / 60 Hz / 3 ph																	
Type SR WB 66-80/4F [108 HP] [79 kW]		 2-Part Line <table border="0"> <tr> <td>→ 444 fpm 134 m/min</td> <td>5 500 lbs 2 500 kg</td> </tr> <tr> <td>→ 276 fpm 84 m/min</td> <td>9 300 lbs 4 200 kg</td> </tr> <tr> <td>→ 180 fpm 54 m/min</td> <td>13 900 lbs 6 300 kg</td> </tr> <tr> <td>→ 108 fpm 34 m/min</td> <td>17 600 lbs 8 000 kg</td> </tr> </table>	→ 444 fpm 134 m/min	5 500 lbs 2 500 kg	→ 276 fpm 84 m/min	9 300 lbs 4 200 kg	→ 180 fpm 54 m/min	13 900 lbs 6 300 kg	→ 108 fpm 34 m/min	17 600 lbs 8 000 kg	 4-Part Line <table border="0"> <tr> <td>→ 222 fpm 67 m/min</td> <td>11 000 lbs 5 000 kg</td> </tr> <tr> <td>→ 138 fpm 42 m/min</td> <td>18 600 lbs 8 400 kg</td> </tr> <tr> <td>→ 90 fpm 27 m/min</td> <td>27 800 lbs 12 600 kg</td> </tr> <tr> <td>→ 54 fpm 17 m/min</td> <td>35 300 lbs 16 000 kg</td> </tr> </table>	→ 222 fpm 67 m/min	11 000 lbs 5 000 kg	→ 138 fpm 42 m/min	18 600 lbs 8 400 kg	→ 90 fpm 27 m/min	27 800 lbs 12 600 kg	→ 54 fpm 17 m/min	35 300 lbs 16 000 kg	Total motor output ~140 HP without SR 10-190/3 ~105 kW Connected power 170 kVA
		→ 444 fpm 134 m/min	5 500 lbs 2 500 kg																	
		→ 276 fpm 84 m/min	9 300 lbs 4 200 kg																	
		→ 180 fpm 54 m/min	13 900 lbs 6 300 kg																	
→ 108 fpm 34 m/min	17 600 lbs 8 000 kg																			
→ 222 fpm 67 m/min	11 000 lbs 5 000 kg																			
→ 138 fpm 42 m/min	18 600 lbs 8 400 kg																			
→ 90 fpm 27 m/min	27 800 lbs 12 600 kg																			
→ 54 fpm 17 m/min	35 300 lbs 16 000 kg																			

Counterweight

Jib		L 1	L 2	L 3	L 4	L 5	L 6	L 7
Counterweight	BG	30 000 lbs 13 600 kg	32 200 lbs 14 600 kg	36 600 lbs 16 600 kg	39 150 lbs 17 750 kg	43 550 lbs 19 750 kg	41 350 lbs 18 750 kg	45 750 lbs 20 750 kg
	[lbs]	3 x 6 950 1 x 9 150	2 x 6 950 2 x 9 150	4 x 9 150	3 x 6 950 2 x 9 150	1 x 6 950 4 x 9 150	2 x 6 950 3 x 9 150	5 x 9 150
	[t]	3 x 3.15 1 x 4.15	2 x 3.15 2 x 4.15	4 x 4.15	3 x 3.15 2 x 4.15	1 x 3.15 4 x 4.15	2 x 3.15 3 x 4.15	5 x 4.15



PEINER SK 315 Dimensions and transport weights

See operating manual for mounting weights

	Designation		Dimensions (ft / m)			Weight	Volume	
			l	b	h	lbs / t	ft³ / m³	
1	Jib Section III		39.01	4.99	7.09	4 200	1 386	
			11.94	1.52	2.16	1.92	39.2	
2	Jib Section I		39.01	4.99	5.84	3 790	1 137	
	11.89		1.52	1.78	1.72	32.2		
	Section II		38.65	4.99	6.17	4 320	1 190	
	11.78		1.52	1.88	1.96	33.7		
	Section IV		19.19	4.99	5.41	1 760	519	
	5.85		1.52	1.65	0.80	14.7		
	Section V		35.34	4.99	5.45	3 090	961	
	10.77		1.52	1.66	1.40	27.2		
	Section VI		36.03	4.99	5.48	2 470	985	
	10.98		1.52	1.67	1.12	27.9		
Section VII	33.33	4.99	5.32	1 570	853			
10.16	1.52	1.62	0.71	25.0				
Jib tip X	3.12	5.02	1.64	310	25			
0.95	1.53	0.50	0.14	0.7				
3	Turntable with slewing ring support and cabin		36.35	7.64	7.81	25 350	2 169	
	11.08		2.33	2.38	11.50	61.4		
	Turntable with slewing ring support		31.99	7.64	7.81	24 030	1 911	
9.75	2.33	2.38	10.90	54.1				
Cabin with support and railing	10.17	4.92	7.25	1 320	364			
3.10	1.50	2.21	0.60	10.3				
4	Counter jib with hoist winch		38.13	5.91	6.00	14 550	1 353	
	11.62		1.80	1.83	6.60	38.3		
Hoist winch	66 WB		7.51	5.45	3.28	5 400	134	
2.29	1.66	1.00	2.45	8.4				
5	Counterweight	BG	3.94	1.64	9.32	6 950	60	
			1.20	0.50	2.84	3.15	1.4	
			3.94	1.64	12.11	9 150	78	
			1.20	0.50	3.69	4.15	1.7	
6	Tower section	TS 212.1		19.52	7.78	8.01	9 130	1 216
		5.95	2.37	2.45	4.14	34.4		
		TSV 212 with struts	31.17	9.84	10.00	20 330	3 067	
9.50	3.00	3.05	9.22	86.9				
TSK 212	6.63	7.87	9.84	6 170	513			
2.02	2.40	3.00	2.80	14.5				
7	Travelling base, folded	UF 821		41.01	9.74	7.05	35 050	2 816
12.5	2.97	2.15	15.90	79.8				
8	Stationary base, folded	U 821		34.55	9.06	2.79	17 130	873
10.53	2.76	0.85	7.77	24.7				
9	Central ballast block	BZ		11.48	4.92	2.20	11 020	124
3.50	1.50	0.67	5.00	3.5				
10	Foundation pad	BF		9.19	3.28	1.87	8 820	57
2.80	1.00	0.57	4.00	1.6				
11	Accessories					4 800		
						2.17		



For more information, product demonstration, or details on lease and rental plans, please contact your local Terex Towers Distributor.

We reserve the right to amend these specifications at any time without notice. The only warranty applicable is our standard written warranty applicable to the particular product and sale. We make no other warranty, expressed or implied.

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Appendix S – Pedestrian Wayfinding Signage Specifications

Pedestrian Detour Way-Finding Signage Specifications:

Signage shall include.

- Information as to the duration of the pedestrian detour route will be in place
- Restriction (beginning and end dates)
- Project contract information (name and number) for questions and complaints
- Way-finding Map guidance depicting detour route including street names, land marks, building names and or addresses for reference
- High visibility contrasting colours (dark letters on white background)
- Appropriate font types (mix of upper and lower-case lettering)
- Appropriate font sizes such that the signage is readable to the general public

Signage shall.

- Be constructed of weatherproof material (corrugated plastic)
- Size of signage will be letter size (11in x 17in) or smaller
- Size and shape shall not impede traffic of pedestrian (accessibility must be maintained)
- Be mounted no higher than 6.5ft above the ground.
- Be mounted along pedestrian routes to guide pedestrians around the construction site detours.
- Be positioned at each location where pedestrians must cross a street, at half way points along the block/route and any point along the route where an alternative pedestrian path may be taken.
- Locate routes to local businesses that are within close proximity to the construction site.
- Provide advanced warning of upcoming detour or sidewalk closures.
- Signage may incorporate plastic grommets positioned around the perimeter of the signage to ensure a secure signage installation
- Signage may be installed/anchored to fencing, utility poles, light standard, road signage, using plastic zip-ties
- Signage must not damage municipal or private property or infrastructure.
- Signage must not be a hazard or dangerous to vehicles or pedestrians as per HRM.
- Signage must not be left and become unsightly as per HRM.
- Signage will be positioned as per this document or as directed by HRM.
- **Signage shall be placed on site 10days 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'.**