

Chadwick & Pleasant  
Apartments  
247 Pleasant Street  
Building Construction

Prepared by Geoff MacLean, P.Eng.

Job No. 35789

CONSTRUCTION MANAGEMENT PLAN

REVISION #	DATE	DESCRIPTION
3	NOV 10 2023	SETBACK TO HYDRANT ADDED
2	NOV 3 2023	REVISED AS PER HRM COMMENTS
1	JUL 2022	REVISED BUILDING LOCATION
0	AUG 2021	ISSUED FOR REVIEW



36 Oland Crescent  
Bayers Lake Business Park  
Halifax, Nova Scotia B3S 1C6  
[www.sdmm.ca](http://www.sdmm.ca)

t: 902-455-1537  
f: 902-455-8479  
c: 902-789-6374  
e: [gmaclean@sdmm.ca](mailto:gmaclean@sdmm.ca)

## Revisions Summary

Revision 1 – Sections; 2.1 & 2.2, Appendices A, G, M, P & Q

Revision 2 – Sections; 1.2, 2.1, 2.2, 2.3, 7.6, 7.7, 8.1, Appendices E, G, J, L & N

Revision 3 – Sections; 10.6, Appendices A & P

## Table of Contents

---

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

6.3: Site Services Connection.....	7
6.4: Construction Management Plan Element Inspection and Maintenance.....	7
6.5: Changes to the Construction Management Plan.....	7
Section 7: Environmental Factors.....	7
7.1: Damage to HRM Infrastructure .....	7
7.2: Protection of Trees .....	8
7.3: Line Painting and Temporary Crosswalks .....	8
7.4: Street and Right-of-Way Cleaning .....	8
7.5: Protection from Inclement Weather .....	8
7.6: Storm Water Management.....	8
7.7: Noise, Dust and Emission Control.....	8
7.8: Rodent Control .....	9
Section 8: Site Protection & Hoarding .....	9
8.1: Barriers & Fences.....	9
8.2: Snow removal .....	10
8.3: Gate Access and Egress.....	10
8.4: Hoarding Aesthetics.....	10
8.5: Sight Lines .....	10
8.6: Project Information and Contacts .....	10
Section 9: Lifting, Hoisting, and Crane Operations.....	11
9.1: Crane Use Overview .....	11
9.2: Transport Canada and Nav Canada Regulations.....	11
9.3: Aerodromes .....	11
Section 10: On-Site Safety and Security .....	11
10.1: Site Safety and Security Overview .....	11
10.2: Material Handling: Loading, Unloading, Delivery and Storage.....	12
10.3: Emergency Access & Egress.....	12
10.4: Security Site Lighting .....	12
10.5: Smoking Areas .....	12
10.6: Fire Suppression Systems .....	12
Section 11: Pre-Construction Consultation & Meeting .....	12
11.1: Pre-CMP Community Consultation.....	12

11.2: Project Information and Contacts ..... 13

11.3: Preconstruction Meeting ..... 13

11.4: Construction Notification ..... 13

Section 12: Summary ..... 13

Appendix A – Encroachment Plan ..... A

Appendix B – Traffic Control Plans TCP ..... B

Appendix C – Haul Route Plan ..... C

Appendix D – Pedestrian Management Plan (PMP) ..... D

Appendix E – Barrier, Fence & Gates Information ..... E

Appendix F – Hoarding Information ..... F

Appendix G – Project Information Board ..... G

Appendix H – Project Safety Signage ..... H

Appendix I – Project Signage Specifications ..... I

Appendix J – Sample Traffic Notification Letter ..... J

Appendix K – Vehicular and Pedestrian Hazard Assessment ..... K

Appendix L – Community Consultation Records ..... L

Appendix M – HRM Tree Detail ..... M

Appendix N – Rodent Control Plan ..... N

Appendix O – CMP’s TCP & PMP Inspection Records ..... O

Appendix P – Concrete Delivery Schematic ..... P

Appendix Q – Crane Information ..... Q



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

The landowner is proposing to redevelop their existing residential properties at the corner of Chadwick and Pleasant Streets, Dartmouth, NS. The planned building at civic 247 Pleasant Street will have a staggered design that steps with the terrain; that includes an 8-storey residential building with a common landscaped roof top amenity area. The building will house a mixture of 1, 2, and 3-bedroom residential suites fronting on Chadwick and Pleasant. The project will utilize the existing site driveway fronting the former civic 5 Chadwick to access three levels of parking along Chadwick and the one level fronting Pleasant Street. Three of the existing buildings on Chadwick have been previously demolished with the remaining building located at civic 247 Pleasant Street still to be demolished in preparation for this new development. This CMP has been prepared to address demolition, excavation, services and building construction of both building sites.

Where deep excavations (+10ft) are planned for the project and the building is in close proximity (+/-5ft) to the street line on both Chadwick and Pleasant Street, for public safety from excavation limits and construction activities we are proposing encroachments on both Pleasant and Chadwick Streets. These include temporarily relocating the pedestrian access route on Pleasant Street, hoarding off the current sidewalk and providing a 1.8m wide temporary asphalt route around the Pleasant Street encroachment. Additionally, we are planning to close the sidewalk in front of the project on Chadwick while hoarding off a section for a truck layby and material laydown area. These encroachments will maintain pedestrian traffic on Pleasant Street and maintain two-way vehicular traffic on both streets. Vehicle traffic is anticipated to be affected during service work and tower crane assembly and disassembly where temporary traffic control will be utilized. During excavation stages, the landowner's adjacent commercial property (Dartmouth South Professional Centre) parking lot will be utilized for material and concrete deliveries.

The development borders a commercial property to the north that houses the Dartmouth South Professional Centre and residential properties also along its north and east property lines and residential properties to the south across Chadwick and to the west across Pleasant is the HRM owned North Woodside Community Centre Park. All neighbouring properties will remain undisturbed throughout construction and all neighbours will be notified and updated on construction ahead of time.

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
Owner	Joseph Sadek		810 Maplewood Lane, Halifax, NS B3H 4K3	(902) 225-3525
Project Manager	Jean Alphonse		6178 Lady Hammond Road, Halifax, NS B3K 2R6	(902) 830-2808 <b>24 Hour Emergency Contact</b>
Site Contractor	J. Pelley Excavation	Justin Pelley	2129 Old Sambro Road, Halifax, NS B3V 1C2	(902) 229-6297
Traffic Control Company	Safety First-SFC		116 Thorne Avenue, Dartmouth, NS B3B 1Z2	(902) 464-0889
Rodent Control Company	Rentokil Pest Control		51 Duke Street, Bedford, NS B4A2Z2	(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	Oct 1, 2022	-	Feb 28, 2023	5 months
Demolition	Oct 17, 2022	-	Oct 31, 2022	2 weeks
Site Excavation	Nov 2, 2023	-	Feb 28, 2024	4 Months
Substructure	Feb 1, 2024	-	May 30, 2024	4 Months
Superstructure	May 1, 2024	-	Aug 31, 2025	16 Months
Service Abandonments	May 1, 2024	-	Jul 1, 2024	2 weekends
Service installs	May 1, 2024	-	Jul 1, 2024	3 weekends
HRM Right of Way Flat Works	Jul 1, 2025	-	Sep 1, 2025	2 months

### 2.2: Key Dates

- Take-over encroachment November 2023
- Finish encroachment September 2025
- Duration of encroachment 2 years
- Temporary lane closures:
  - Pleasant Street Service abandonment May 4, 5, 2024 (weekends only)
  - Chadwick Street Service abandonment May 11, 12, 2024 (weekends only)
  - Pleasant Street Sewer service install June 1, 2, 2024 (weekends only)
  - Chadwick Street Sewer service install June 8, 9, 2024 (weekends only)
  - Chadwick Street Water service install June 15, 16, 2024 (weekends only)
  - Tower crane assembly April 27, 28, 2024 (weekend)
  - Tower crane disassembly April 19, 20, 2025 (weekend)

The encroachment areas are shown in the appendix for reference.

### 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: Noted Above

Although work is not expected to be required outside of the times listed above, if, for any reason, work is anticipated to be required outside of these hours, the contractor will apply to HRM for approval 5 business days (minimum) in advance of such work and obtain approval prior to proceeding. It is noted that HRM’s Noise By-Law cannot be altered without HRM council approval; work must adhere to the Noise By-Law. Note that construction noise exemptions may be granted where construction noise is planned to take place during prohibited hours of the N-200 By-law. The developer to apply for this separately under the Construction Noise Exemption process.

## 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;
- l) HRM TCM Supplement;
- m) G-200 Grade Alteration and Stormwater management;
- n) Admin Order 2018-005-ADM regarding encroachments; and

- 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

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

Throughout all phases of construction two-way vehicular traffic will be maintained on Chadwick and Pleasant Streets. Only during service work, tower crane assembly and disassembly do we anticipate short term temporary lane closures being required. Please refer to the appendices for required encroachment plan and 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 all construction phases vehicles will enter and exit the site at the gate location(s) which will be clearly marked for function. During excavation stages material and concrete deliveries shall be contained within the owner's private property (adjacent commercial parking lot); once building is backfilled the Chadwick encroachment area will also be used. With the steep street grade on Chadwick in front of the project, they plan to utilize the landowner's parking lot larger deliveries and utilize the Chadwick encroachment for smaller deliveries once the foundation has been backfilled. We anticipate deliveries on Chadwick entering the east gate and exiting the west gate, refer to appendix for concrete delivery schematic.

### 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

On street parking is not permitted along Chadwick or Pleasant Street in the vicinity of the project site. To minimize parking requirements in adjacent neighbourhoods, site workers will utilize private property and workers will be encouraged to carpool or rely on public transit.

### 4.6: Bus Stops

There are no bus stops directly in front of the project. However, bus service travels along Pleasant Street however should not be affected by this project.

### 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 all phases of construction, the project will maintain pedestrian access by rerouting the sidewalk along Pleasant Street fronting the building. The sidewalk on Chadwick will be closed and pedestrians will be encouraged to use the opposite side of the street for access. This is to ensure the limits of excavation, deliveries and construction overhead are kept a safe distance from pedestrians.

### 5.1: Pedestrian Protection

Pedestrians will be protected by physically distancing them from the project. F-type concrete barriers with rigid fencing mounted above will delineate the project during the construction activities. Rigid fencing will be covered with translucent covering to block view of the site, except near the intersection of Chadwick and Pleasant where clear rigid fencing will be installed to maintain vehicular sightlines at the Chadwick intersection. 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. A sample traffic notification letter can be found in the appendix. HRM must be notified prior to issuing the notification to neighbours.

### 5.4: Visually Impaired Persons

In keeping with 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 around all project related blocked sidewalks. Existing sidewalks, a proposed temporary asphalt route, pedestrian ramps and crosswalks will be maintained along Pleasant Street.

### 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 not anticipated for this project given that pedestrian traffic will remain along on Pleasant and minimal pedestrian traffic is anticipated on Chadwick.

### 5.8: Pedestrian Detour Wayfinding Signage

The need for pedestrian wayfinding signage directing pedestrians to adjacent businesses is not anticipated for this project given the location. Pedestrian traffic will remain on Pleasant Street and there no businesses on Chadwick Street.

## Section 6: Encroachments & Disruptions

---

During construction, we are proposing the project encroachment area will incorporate the public sidewalk on Pleasant and a section of the sidewalk on Chadwick. This will move pedestrians to the opposite side of Chadwick and reroute them around the encroachment on Pleasant Street. These encroachments are to keep the public away from the excavation zone of influence as well as provide additional room for site workers and deliveries within the encroachment area.

The encroachment on Chadwick and Pleasant Streets is planned to be delineated by interlocking F-type concrete barriers complete with rigid fencing with translucent coverings except near the intersection on Pleasant and Chadwick where clear ridged fencing on top concrete barriers will be installed to maintain vehicular sightlines exiting Chadwick.

Throughout the project, fencing will be positioned to not obstruct vehicle sight lines. In areas adjacent to the site gates open mesh chain link fence on top of the site barriers to not obstruct sight lines.

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 existing building at civic 247 Pleasant Street will be demolished prior to site excavation.

### 6.2: Site Excavation

This includes deep excavation and removal of common site material. The development is planned to have one level of underground parking below grade on Pleasant Street and two levels of parking along Chadwick. It is anticipated that the local soils will need to be sloped from edge of encroachment to founding elevation. Slopes will be secured and stabilized as per the geotechnical consultant's recommendations. If bedrock is found, these excavation slopes could be lessened, and the contractor will need to 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. 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). HRM requires that this service work be limited to weekends only to minimize traffic disruptions. 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.

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 31<sup>st</sup> 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 HRM infrastructure will be reinstated within the encroachment area and be completely replaced. This will include removal of the temporary pedestrian route and reinstating the sod behind the street curb along Pleasant Street. 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 31<sup>st</sup> 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 several HRM street trees within the public right-of-way directly adjacent to the project site in front of the project along Chadwick and Pleasant Streets. We are proposing to remove several HRM street trees in front of the project on Chadwick Street and one HRM street tree on Pleasant Street.

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 and the noted limits on the encroachment plan sound in the appendix.

## 7.3: Line Painting and Temporary Crosswalks

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

## 7.4: Street and Right-of-Way Cleaning

The portion of public street adjacent to the project will be cleaned daily of any debris from trucks and silt, dirt, or rock that migrates beyond the encroachments. A sweeper truck will be utilized as required. 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 public sidewalk for their encroachment the developer is responsible to clear snow from the street side of these 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, the site will be regularly reviewed and cleaned, with loose items secured when not in use.

## 7.6: Storm Water Management

During construction, nearby catch basins may be fitted with silt bags and/or 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 times adhere to the HRM Noise Bylaw (N-200) unless approved under HRM exemption process. No work will take place on the project site outside those hours identified in section 2 of this report. , unless HRM grants an exception.

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 and rock faces cleared to form a 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 has engaged a rodent control company, to utilize the established Rodent Control Plan (RCP) to help mitigate rodent movement prior to and during building demolition and construction. The RCP applies to all project phases with the goal of preventing movement of rodents off-site. The RCP will consist of a baiting and monitoring program. Bait stations (traps) will be placed as outlined in the NPMA Pest Management Standards for Food Processing & Handling Facilities.

The RCP was engaged two weeks prior to the commencement of building demolition to help to lower the number of active rodents in the project area. Bait stations positioned along existing buildings and fence lines prior to excavation. Bait stations 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 & Fences

The encroachment will be delineated using concrete F-type jersey barriers complete with rigid fencing 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 have translucent dust control mesh of high quality which will extend a minimum 3m from the public right-of-way. This screening described 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 similar to fencing near the intersection, fencing will remain clear near the intersection to maintain required sight lights.

Along the private sidelines where non-vehicular traffic is present, the hoarding will be delineated by weighted modular 1.8m (6ft) high fencing or existing fencing where it is at least 1.8m 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.

Installation of F-Type concrete barriers, fencing and 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 translucent 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.

It is noted that surplus fencing must be stored and installed from private property when relocated for deliveries and be routinely re-established to keep the site secure. Surplus fencing cannot be stored within HRM's right-of-way.

### **8.2: Snow removal**

The developer will be responsible to remove snow and ice as required to ensure that emergency access is maintained 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 and temporary asphalt route 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 Chadwick Street.

Any existing fire hydrants located adjacent to the site will remain protected from construction activities. These fire hydrants, along with the existing 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; encroachment fee reductions are not anticipated.

### **8.5: Sight Lines**

Rigid fencing and signage will be installed as per the CMP drawings such that vehicle sight lines are maintained around corners, particularly at driveway access points and existing intersections.

### **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, the 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 tower cranes is shown in the appendix.

It is anticipated that the crane assembly and disassembly will be stationed on Pleasant Street in front of the project within a lane drop, see traffic control plan in the appendix.

The crane swing will extend over neighbouring properties as shown in the Crane Swing Diagrams included in the appendix. The developer will notify these property owners prior to extending the crane over their properties. Refer to the appendix for crane information.

Concrete is anticipated to be hosted to upper levels by the tower crane. Concrete trucks will be stationed within the adjacent commercial property parking lot and encroachment (see concrete delivery schematic within the appendix).

If lifting operations are required over the public realm, this area will be closed to access. In all cases of lifting, extreme care will be used to ensure public and worker safety.

### 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 adjacent commercial parking lot or Chadwick encroachment area.

### **10.3: Emergency Access & Egress**

The site will be accessible through gates to facilitate construction vehicle access. In cases of emergencies, on-site workers will exit the project site through these gates. These gates will remain closed but 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 CMP plan for details.

Gates are to remain closed at all times unless being used for deliveries to maintain a controlled access site preventing access by the general public to the construction site.

### **10.4: Security Site Lighting**

Security site lighting is not anticipated for this project.

### **10.5: Smoking Areas**

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

### **10.6: Fire Suppression Systems**

There is an existing fire hydrant on Chadwick that will remain outside the project encroachment area and will be protected from construction activities. Per HRM Fire Services request, 2.0m clearance between the existing fire hydrant and site site's compound fencing/barriers shall be provided at all times. This fire hydrant, along with any existing fire department connections (Siamese connections) will be accessible to firefighters throughout all phases of the project.

There are no proposed fire department connections at this stage of the project. These are not available for fire department use until after the 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 contact 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 wish to waive the requirement.

### 11.4: Construction Notification

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

## Section 12: Summary

---

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

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

Regards,

**Servant, Dunbrack, McKenzie & MacDonald Ltd.**

Geoff MacLean, P.Eng.

Project Engineer

Z:\SDMM\35000-35999\35750\35789\CMP\Rev3\247 Pleasant Street - CMP (Rev3) - 35789.docx

# APPENDIX

## Appendix A – Encroachment Plan

---



KEY PLAN

LEGEND		
EXISTING		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	⊕
× 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	—
—	TOE OF SLOPE	—
—	TREELINE	—
—	LIMITS OF DISTURBANCE	—
—	TACTILE PEDESTRIAN PLATES	—
—	PROJECT SAFETY SIGNAGE	—
—	ORANGE SAWHORSE BARRICADE	—

NOTES

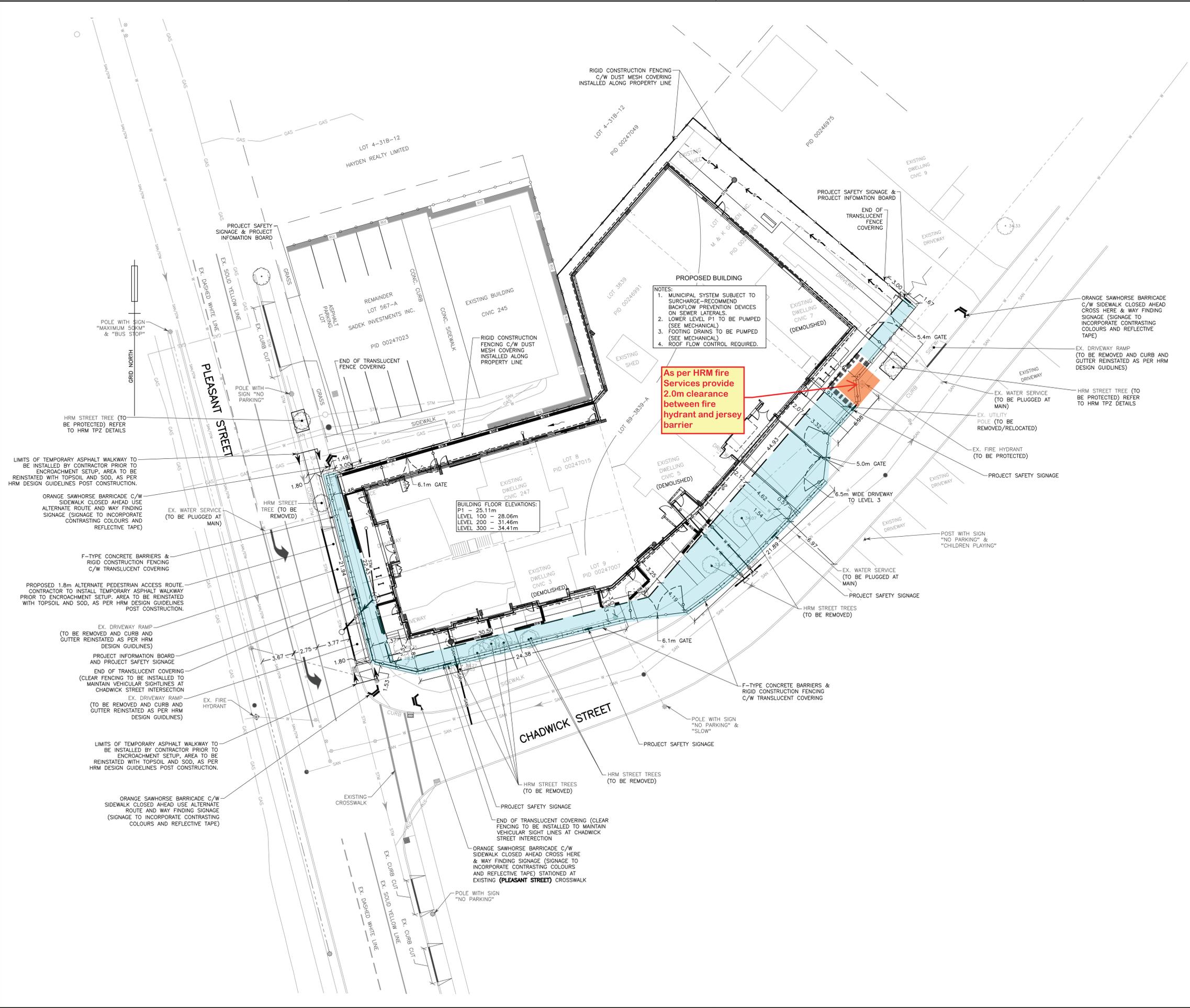
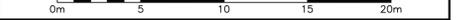
1. THIS PLAN IS IN METRIC.

2	23/11/10	REVISED PER HRM COMMENT	
1	22/07/18	REVISED BUILDING LOCATION	
0	21/08/25	ISSUED FOR REVIEW	
No.	YY/MM/DD	Revision Description	Appr'd



PROPOSED MULTI-UNIT BUILDING  
247 PLEASANT STREET  
DARTMOUTH, NOVA SCOTIA

ENCROACHMENT PLAN					
Date	August 25, 2021	Drawn	D. ANDERSON	Project No.	FILE NO. 1-7-241 (35789)
Scale	1:200	Engineer	G. MACLEAN	Plan No.	
Reference	Approved		G. MACLEAN	Drawing Name	
Surveyed	Sheet				R1



- NOTES:
- MUNICIPAL SYSTEM SUBJECT TO SURCHARGE-RECOMMEND BACKFLOW PREVENTION DEVICES ON SEWER LATERALS.
  - LOWER LEVEL P1 TO BE PUMPED (SEE MECHANICAL)
  - FOOTING DRAINS TO BE PUMPED (SEE MECHANICAL)
  - ROOF FLOW CONTROL REQUIRED.

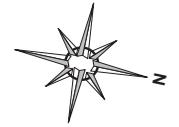
As per HRM fire services provide 2.0m clearance between fire hydrant and jersey barrier

BUILDING FLOOR ELEVATIONS:  
P1 - 25.11m  
LEVEL 100 - 28.06m  
LEVEL 200 - 31.46m  
LEVEL 300 - 34.41m

## **Appendix B – Traffic Control Plans TCP**

---

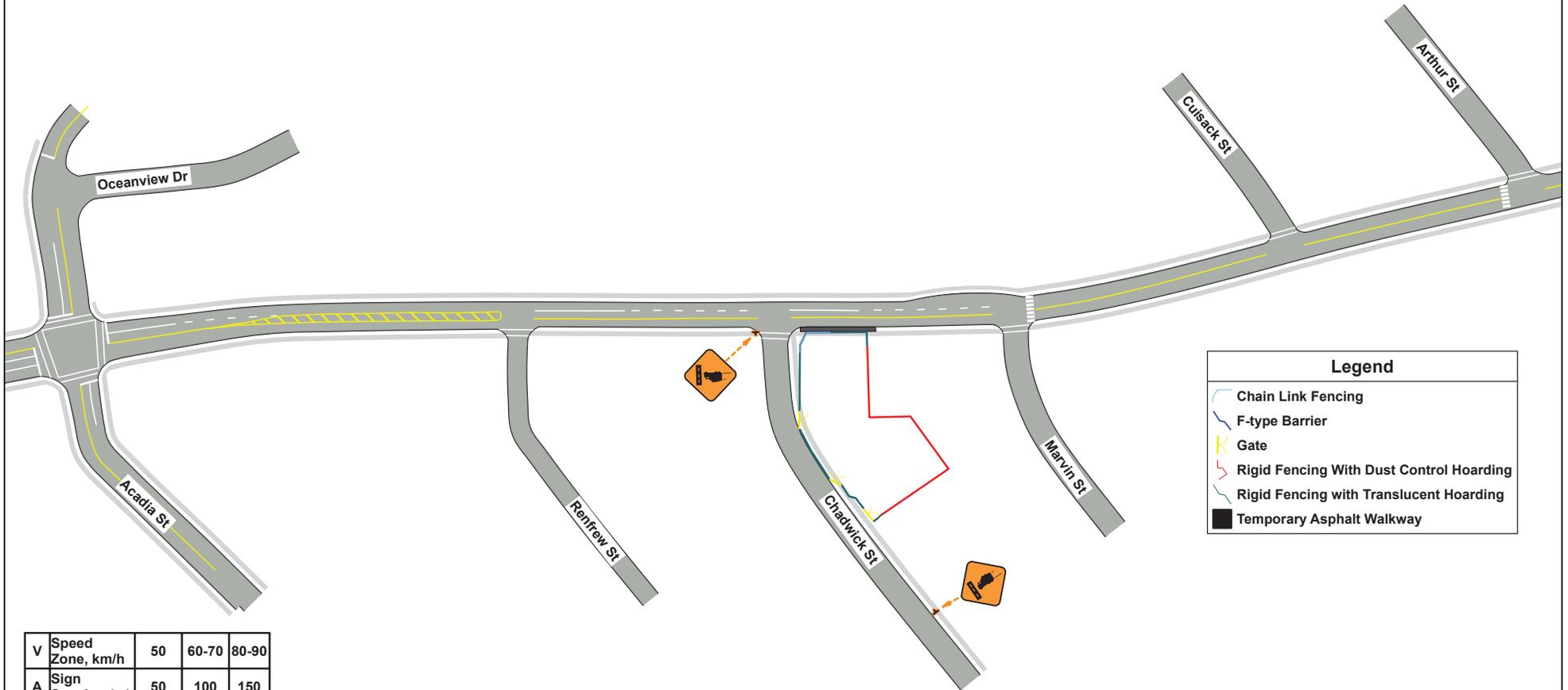
# Encroachment Signage Plan



Date: 2021-09-10 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 247 Pleasant St  
 Contrator: SDMM Contact: Geoff Maclean, 902 789-6374

**Comments:**

Not to Scale  
 Encroachment Signage Plan  
 See Pedestrian Control Plan for Chadwick St sidewalk closure details

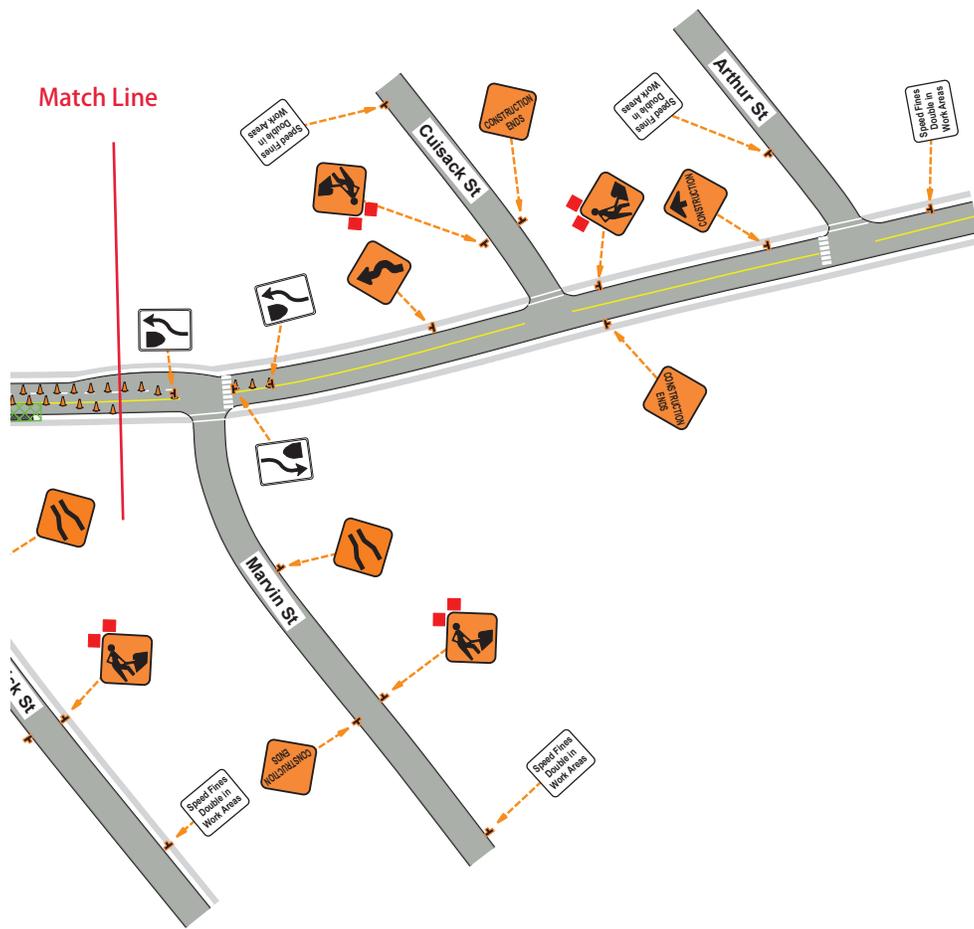
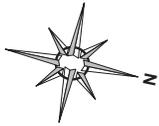


Legend	
	Chain Link Fencing
	F-type Barrier
	Gate
	Rigid Fencing With Dust Control Hoarding
	Rigid Fencing with Translucent Hoarding
	Temporary Asphalt Walkway

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



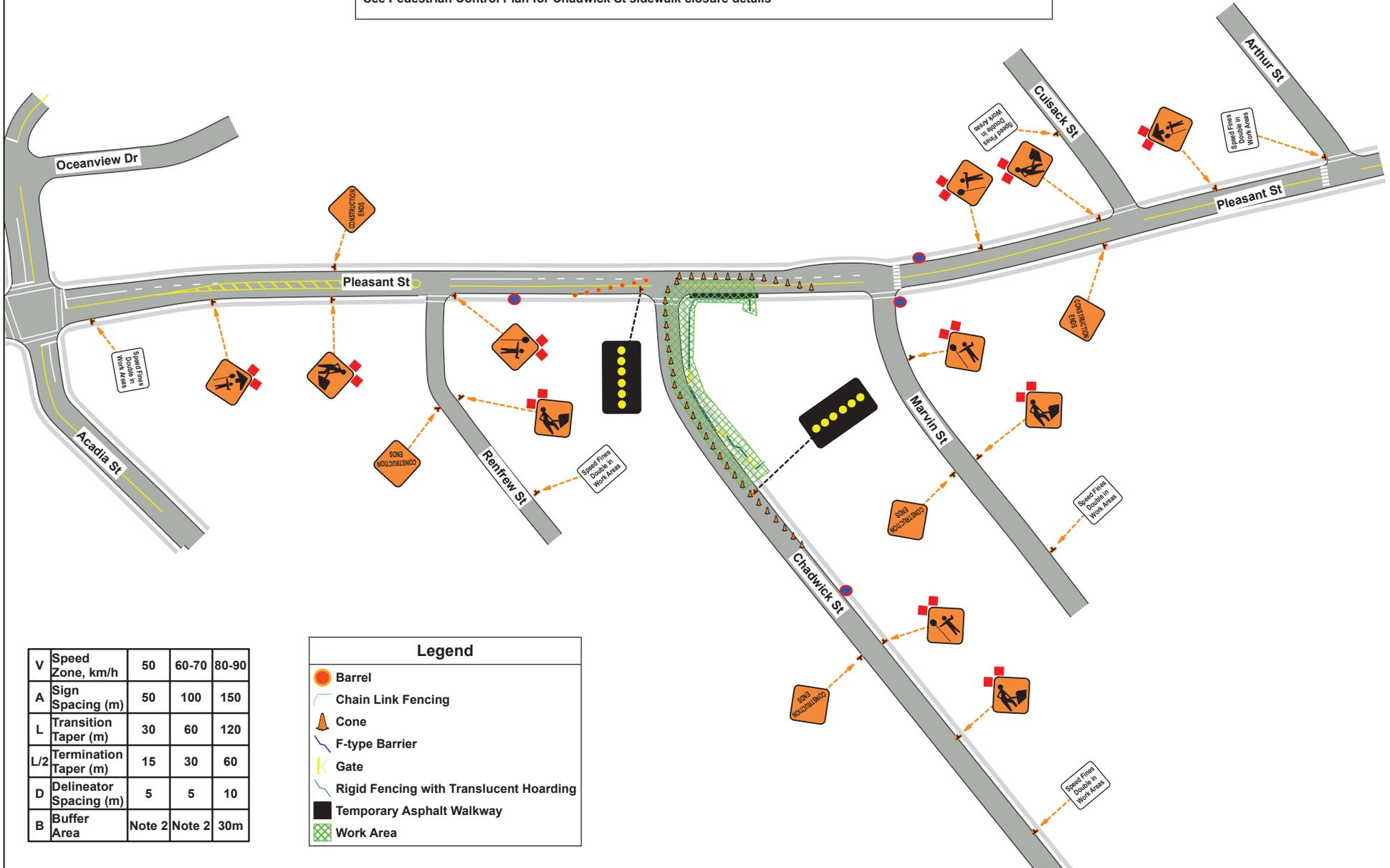
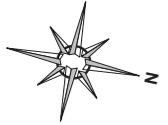
# Temporary Sidewalk Installation and Removal Plan



# Barrier Installation and Removal Plan

Date: 2021-09-10 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 247 Pleasant St  
 Contrator: SDMM Contact: Geoff Maclean, 902 789-6374

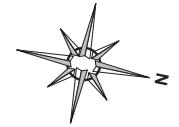
Comments:  
 Not to Scale  
 Encroachment Signage Plan  
 See Pedestrian Control Plan for Chadwick St sidewalk closure details



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

Legend	
	Barrel
	Chain Link Fencing
	Cone
	F-type Barrier
	Gate
	Rigid Fencing with Translucent Hoarding
	Temporary Asphalt Walkway
	Work Area

# Storm Lateral Installation Plan

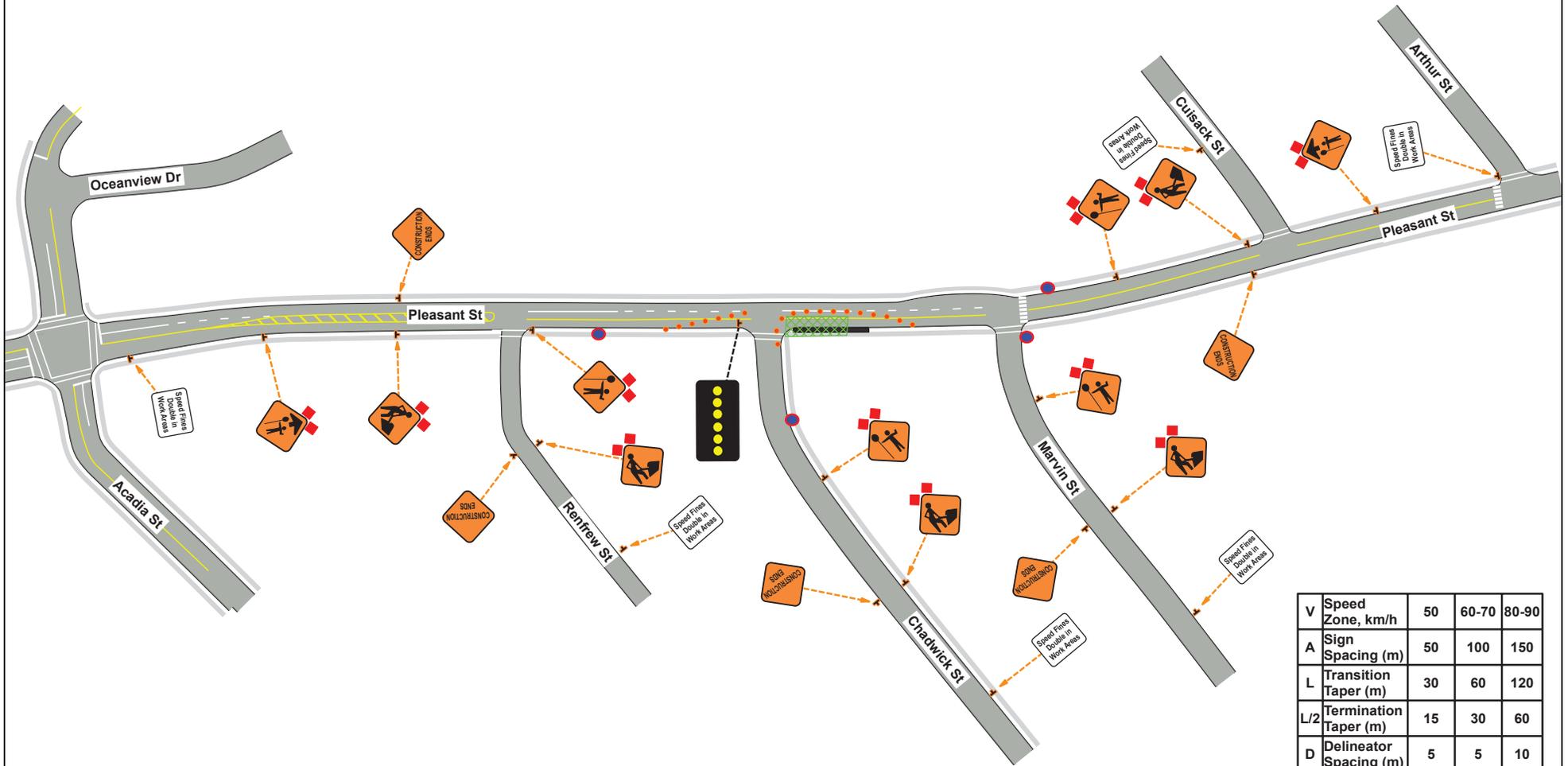
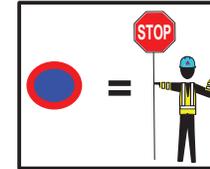


Date: 2021-09-10 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 247 Pleasant St  
 Contrator: SDMM Contact: Geoff Maclean, 902 789-6374

Comments:  
 Not to Scale  
 Encroachment Signage Plan  
 See Pedestrian Control Plan for Chadwick St sidewalk closure details

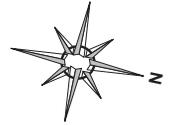
**Legend**

- Barrel
- Control Position
- Temporary Asphalt Walkway
- Work Area



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

# Water and Sanitary Laterals Installation and Capping Plan

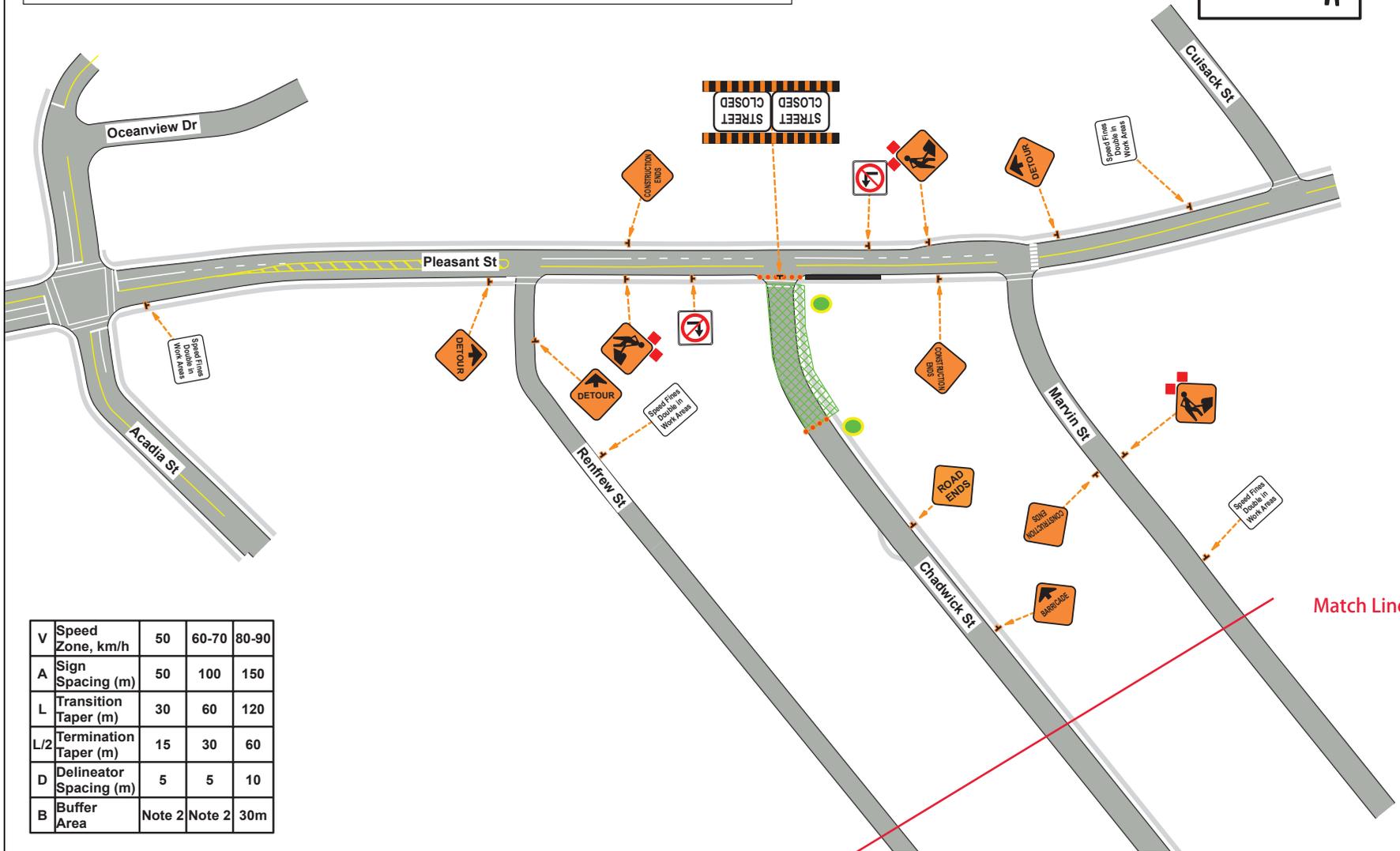
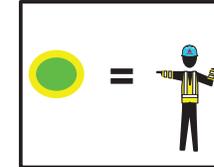


Date: 2021-09-10 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 247 Pleasant St  
 Contrator: SDMM Contact: Geoff Maclean, 902 789-6374

Comments:  
 Not to Scale  
 Encroachment Signage Plan  
 See Pedestrian Control Plan for Chadwick St sidewalk closure details

**Legend**

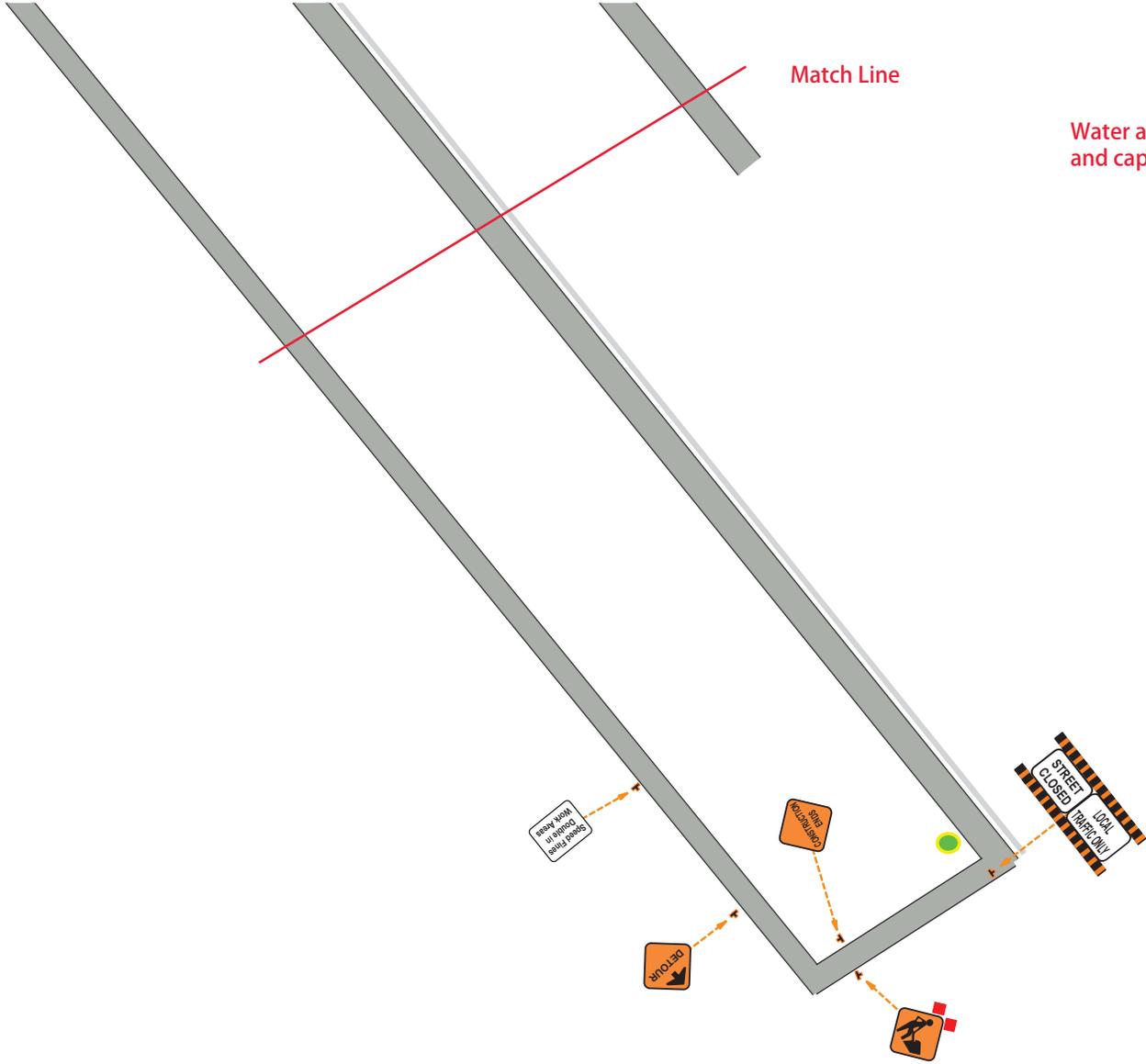
- Barrel
- Temporary Asphalt Walkway
- Work Area



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

Match Line

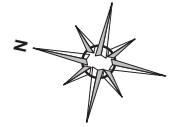
Water and Sanitary Lateral Installation  
and capping plan page 2 of 2



## Appendix C – Haul Route Plan

---

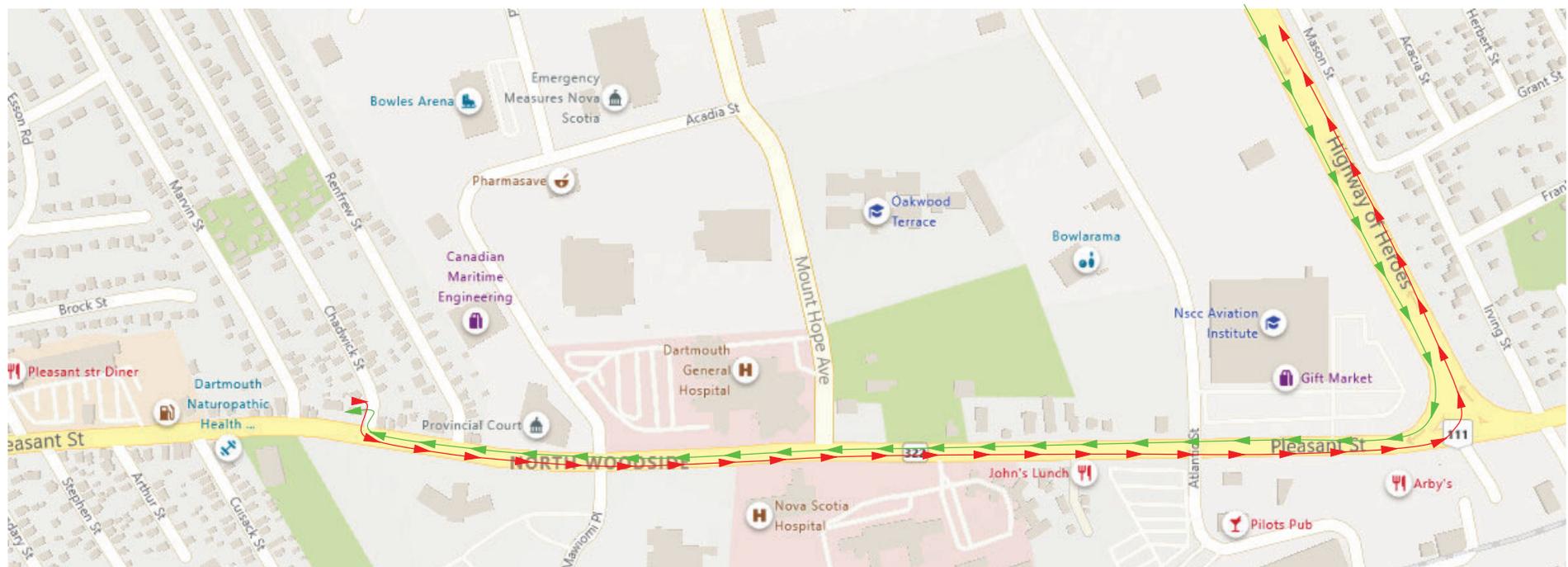
# Haul Route Plan



Date: 2021-09-10 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 247 Pleasant St  
Contrator: SDMM Contact: Geoff Maclean, 902 789-6374

**Comments:**

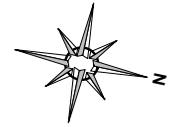
Not to Scale  
Haul Route Plan  
Inbound via Hwy 111 to Pleasant St to Chadwick St.  
Outbound via Chadwick St to Pleasant St to Hwy 111



## Appendix D – Pedestrian Management Plan (PMP)

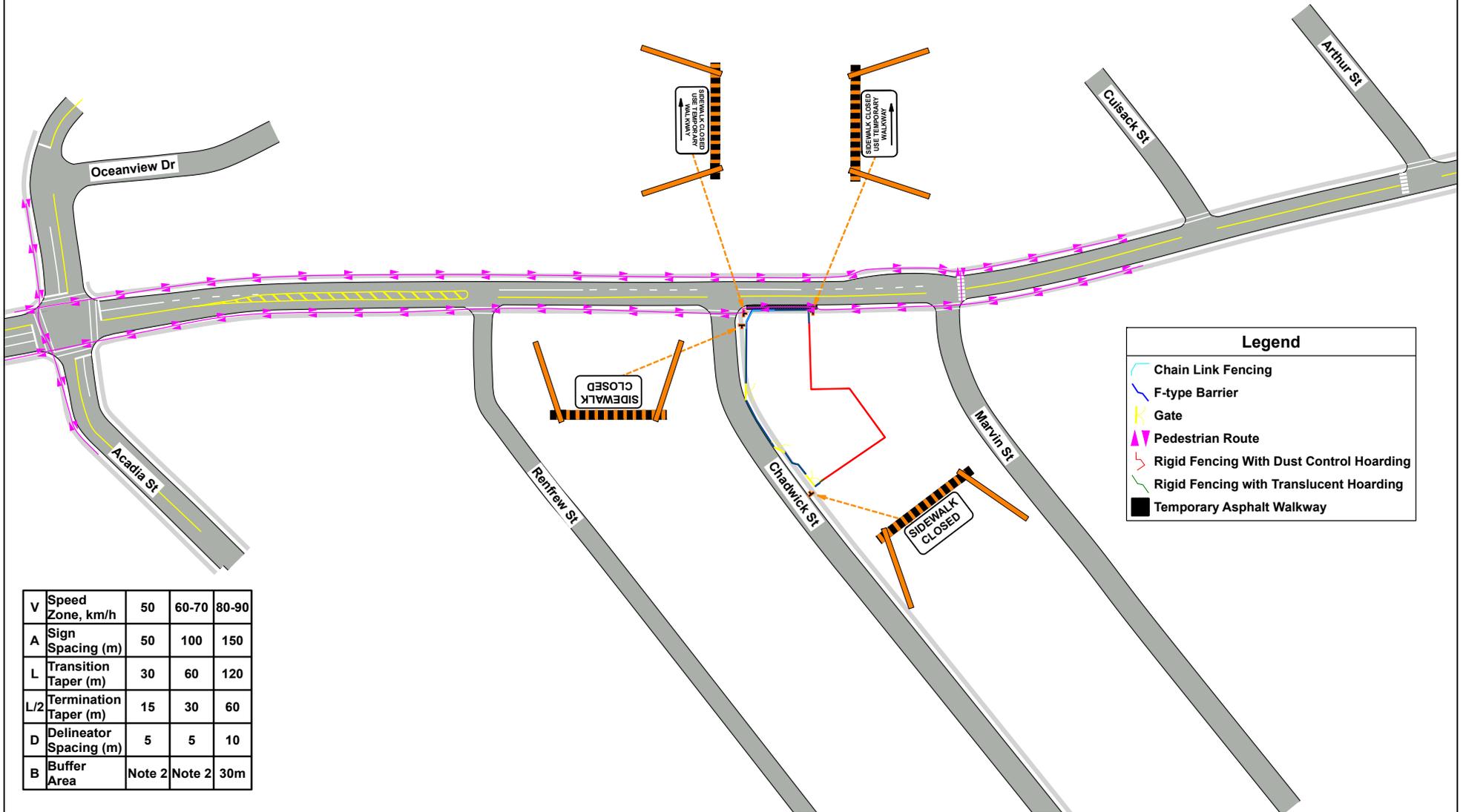
---

# Pedestrian Management Plan 1



Date: 2021-09-10 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 247 Pleasant St  
 Contrator: SDMM Contact: Geoff Maclean, 902 789-6374

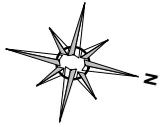
Comments:  
 Not to Scale  
 Encroachment Signage Plan  
 See Pedestrian Control Plan for Chadwick St sidewalk closure details



Legend	
	Chain Link Fencing
	F-type Barrier
	Gate
	Pedestrian Route
	Rigid Fencing With Dust Control Hoarding
	Rigid Fencing with Translucent Hoarding
	Temporary Asphalt Walkway

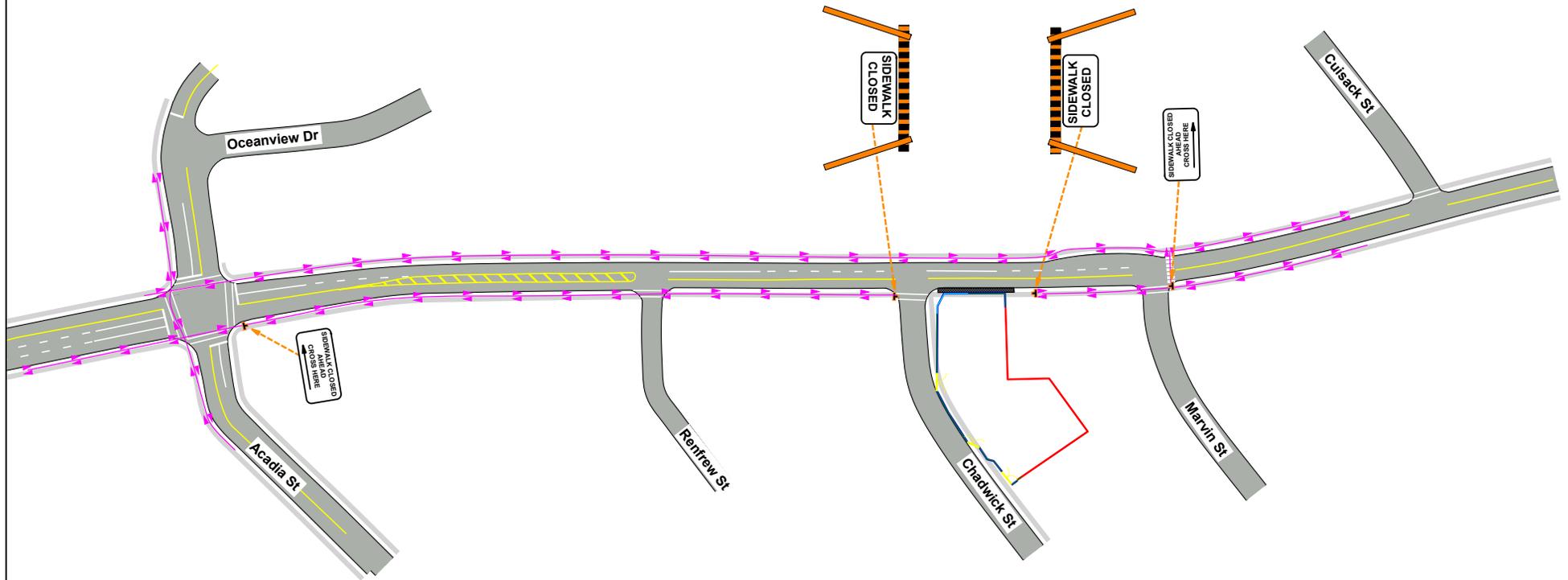
V	Speed Zone, km/h	50	60-70	80-90
A	Sign Spacing (m)	50	100	150
L	Transition Taper (m)	30	60	120
L/2	Termination Taper (m)	15	30	60
D	Delineator Spacing (m)	5	5	10
B	Buffer Area	Note 2	Note 2	30m

# Pedestrian Management Plan 2



Date: 2021-09-10 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 247 Pleasant St  
Contrator: SDMM Contact: Geoff Maclean, 902 789-6374

Comments:  
Not to Scale  
Pedestrian Management Plan 2  
Short Duration Closure of sidewalk and Temporary Walkway



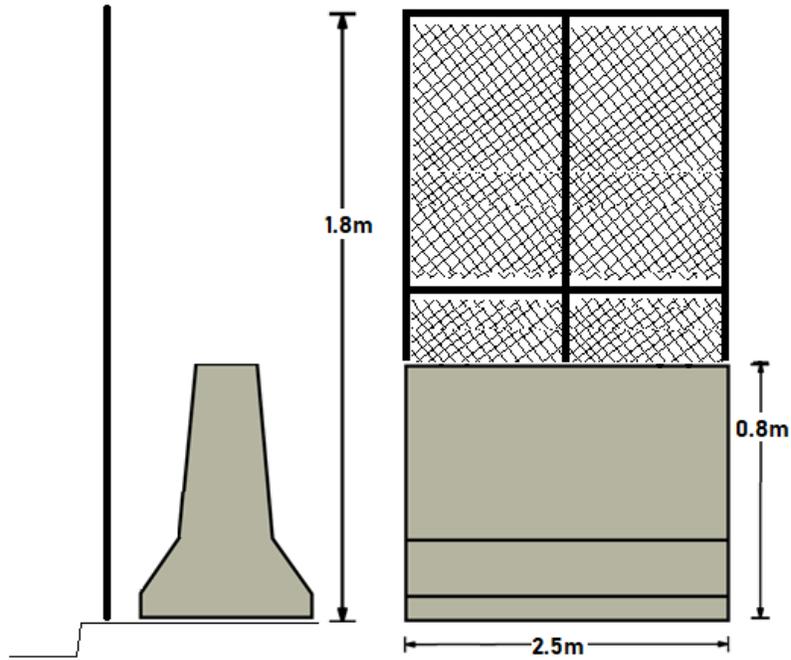
Legend	
	Chain Link Fencing
	F-type Barrier
	Gate
	Pedestrian Route
	Rigid Fencing With Dust Control Hoarding
	Rigid Fencing with Translucent Hoarding
	Temporary Asphalt Walkway

## Appendix E – Barrier, Fence & Gates Information

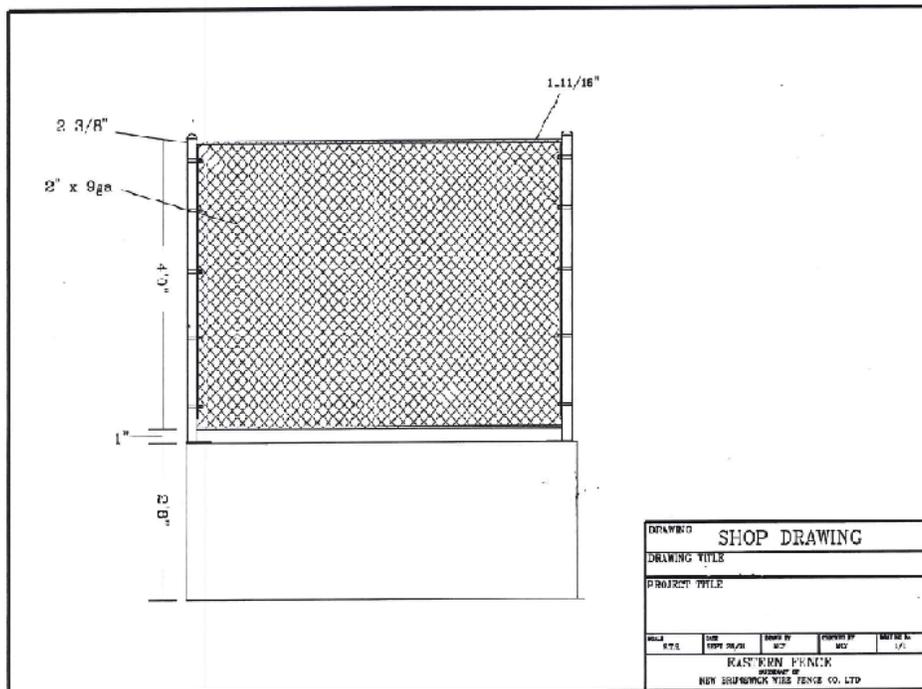
---



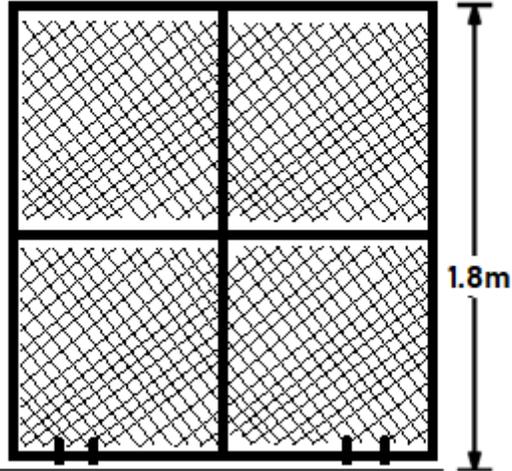
Fence mounted to curb with interlocking F-type concrete jersey barriers set beside



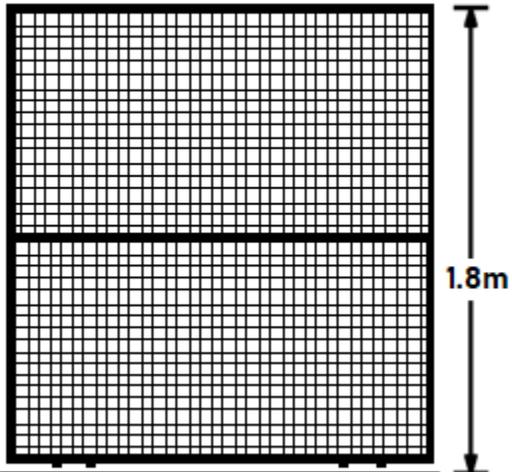
Note: All F-type concrete barriers within the street shall have reflective tape on them.



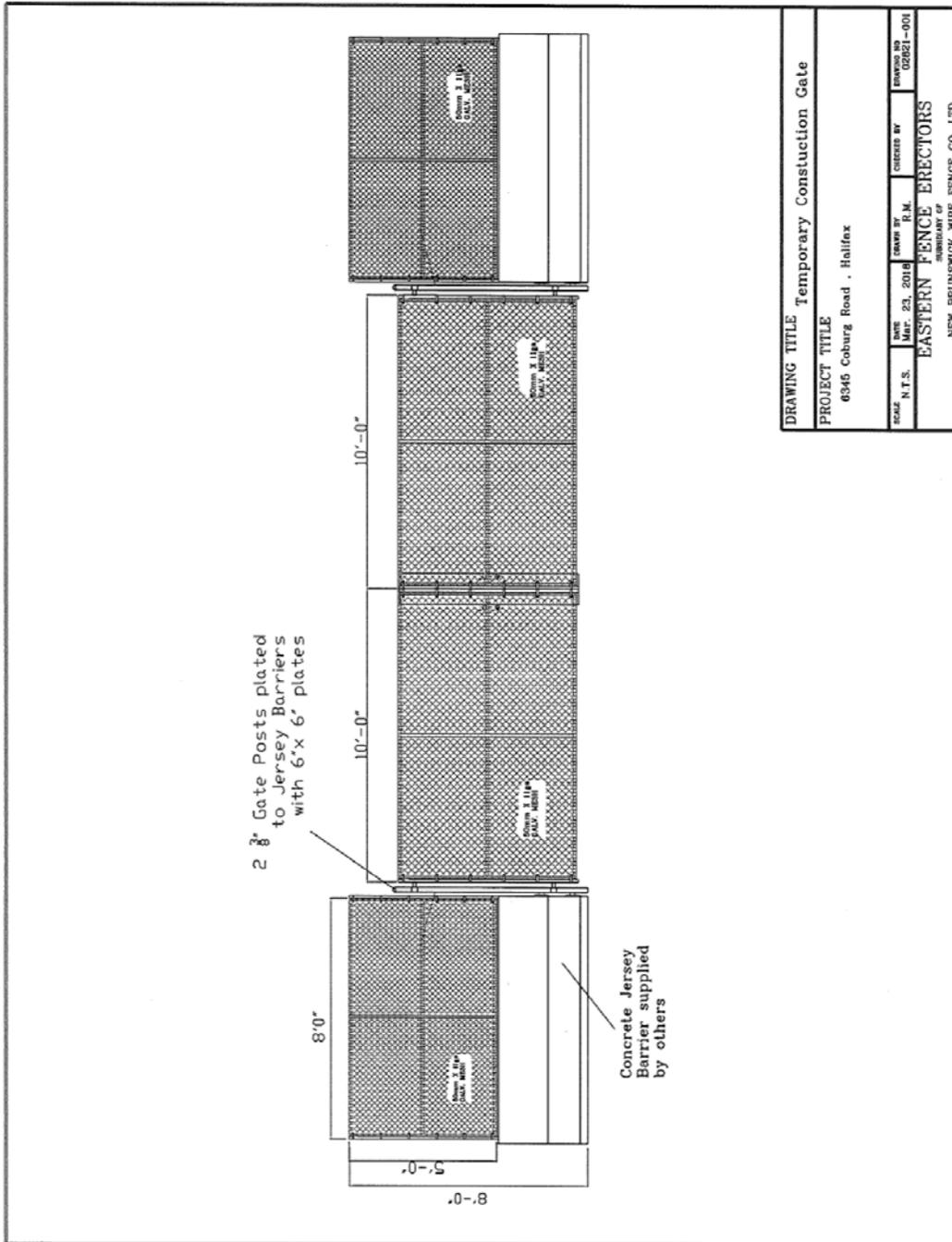
Chain link fence



Modual Fencing



Sample Gate Detail



DRAWING TITLE Temporary Constuction Gate			
PROJECT TITLE 6346 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			

## Appendix F – 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 <sup>2</sup>	7.96 oz/yd <sup>2</sup>
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 G – Project Information Board

---



**January 2024 – December 2025**

**PROPOSED BUILDING**  
**Chadwick & Pleasant Apartments**

8 Storey - 67 Residential Units  
Level 8 – Rooftop Terrace with Level 6 & 7  
Landscaped Amenity Space  
1 Level Underground Parking  
3 Levels of Upper Floor Parking  
Surface and Underground Bicycle parking

**Owner:**

Joseph Sadek  
810 Maplewood Lane, Halifax, NS

**Project Manager:**

Jean Alphonse  
6178 Lady Hammond Road,  
Halifax, NS, B3K 2R6

**24 Hour Emergency Contact:**  
**(902) 830-2808**

**Contractor:**

J. Pelley Excavation Limited  
2129 Old Sambro Road,  
Halifax, NS, B3V 1C2

**Contact:**  
Justin Pelley - (902) 229-6297

**Traffic Control:**

Safety First-SFC  
116 Thorne Avenue,  
Dartmouth, NS, B3B 1Z2

**Contact:**  
(902) 464-0889

**Rodent Control Company:**

Rentokil Pest Control  
51 Duke Street, Bedford, Bedford, NS

**Contact:**  
902-835-2304

## Appendix H – Project Safety Signage

---



**RESTRICTED**  
**— AREA —**

**CONSTRUCTION**  
**WORK IN**  
**PROGRESS**

## Appendix I – 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 J – Sample Traffic Notification Letter

---



## Proposed Multi-Unit Residential Building

### DRAFT NOTIFICATION LETTER

### TO WHOM IT MAY CONCERN

### Date

### NOTIFICATION OF TRAFFIC DISRUPTION: **Street Name**, DARTMOUTH, NOVA SCOTIA

This is to inform you that the to facilitate operations in association with the Multi-Unit Residential building 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:

### **J. Pelley Excavation Limited**

2129 Old Sambro Road,

Halifax, NS

B3V 1C2

Phone: (902) 229-6297

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

Yours Truly,

Justin Pelley

**J. Pelley Excavation Limited**

## Appendix K – Vehicular and Pedestrian Hazard Assessment

---

Project

Date:

Location:

## VEHICULAR &amp; PEDESTRIAN HAZARD ASSESSMENT

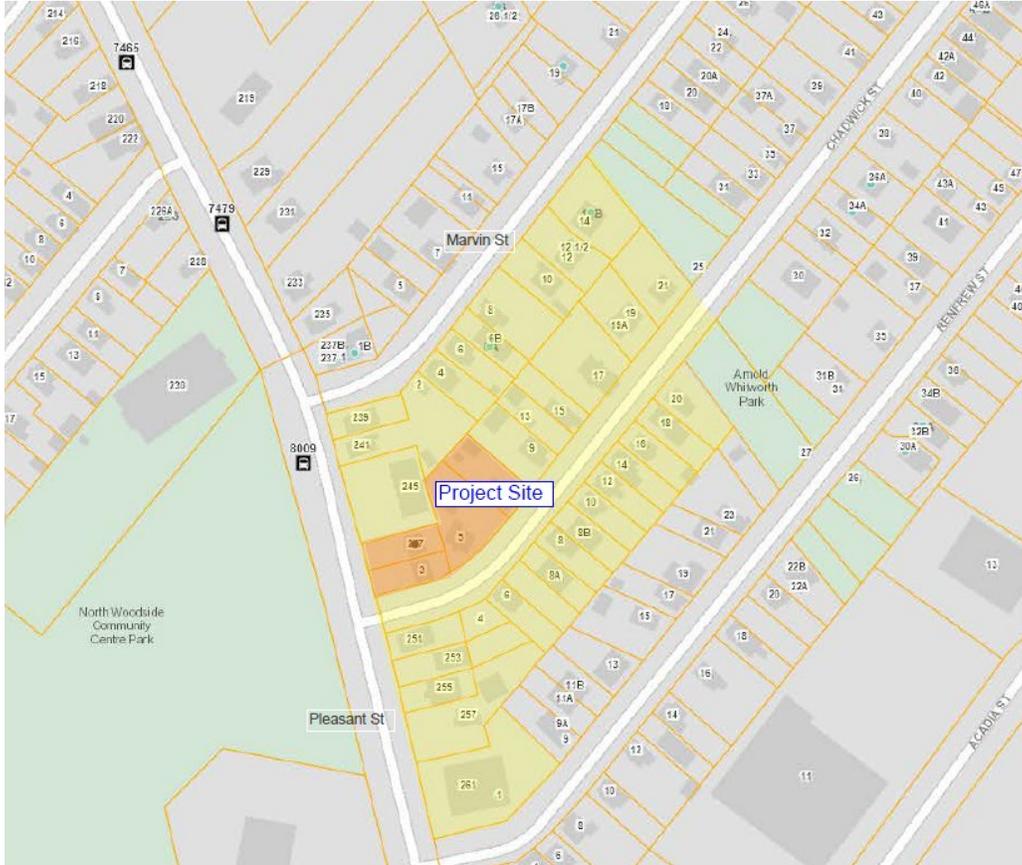
No.	Hazard:	Project Phase:	Vehicular Impacts:	Mitigation Methods:	Pedestrian Impacts:	Mitigation Methods:
1	Excavation	Excavation	Vehicles may enter project site and fall down excavation.	Place concrete barriers along travel ways. Concrete barriers and existing curbs to prevent vehicle entry.	Pedestrians may enter project site and fall down excavation.	Place concrete barriers/rigid fencing around entire project site.
			Vehicle weight may surcharge excavation, causing excavation wall failure.	Close sidewalks & driveways adjacent to project site, moving vehicles farther away from excavation.		
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.
			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. Pedestrians will be moved to opposite sides of street from the project site or onto temporary sidewalks such that 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.

## Appendix L – Community Consultation Records

---

# COMMUNITY CONSULTATION MAP OVERVIEW

## Project – Chadwick & Pleasant Apartments



# Notification Letter

Date: \*\*\*\*\*

Joseph Sadek – Building Construction Information Meeting

Dear Neighbour,

As you may be aware, we are planning an apartment building construction project located at 247 Pleasant Street, Dartmouth on the corner of Chadwick and Pleasant Streets.

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.

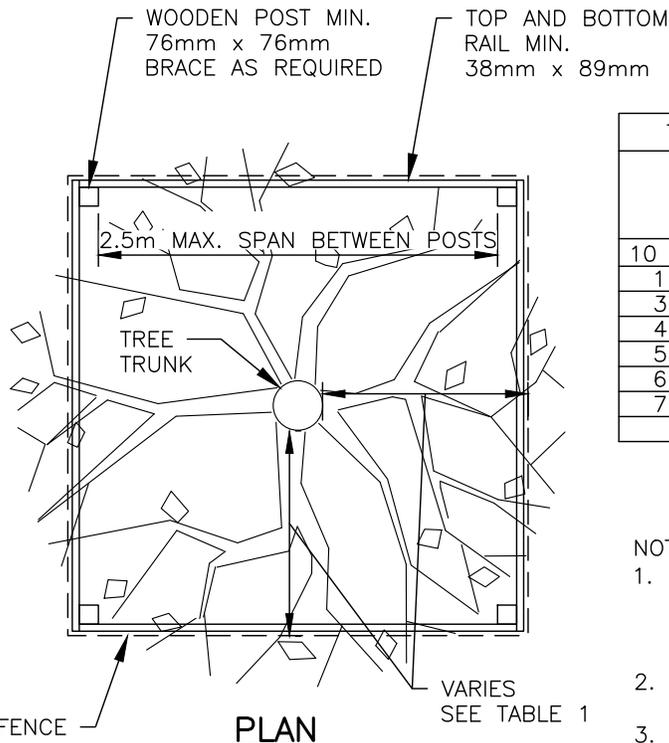
Thank you.

Jean Alphonse  
Project Manager

Cell: (902) 830-2808

## Appendix M – HRM Tree Detail

---



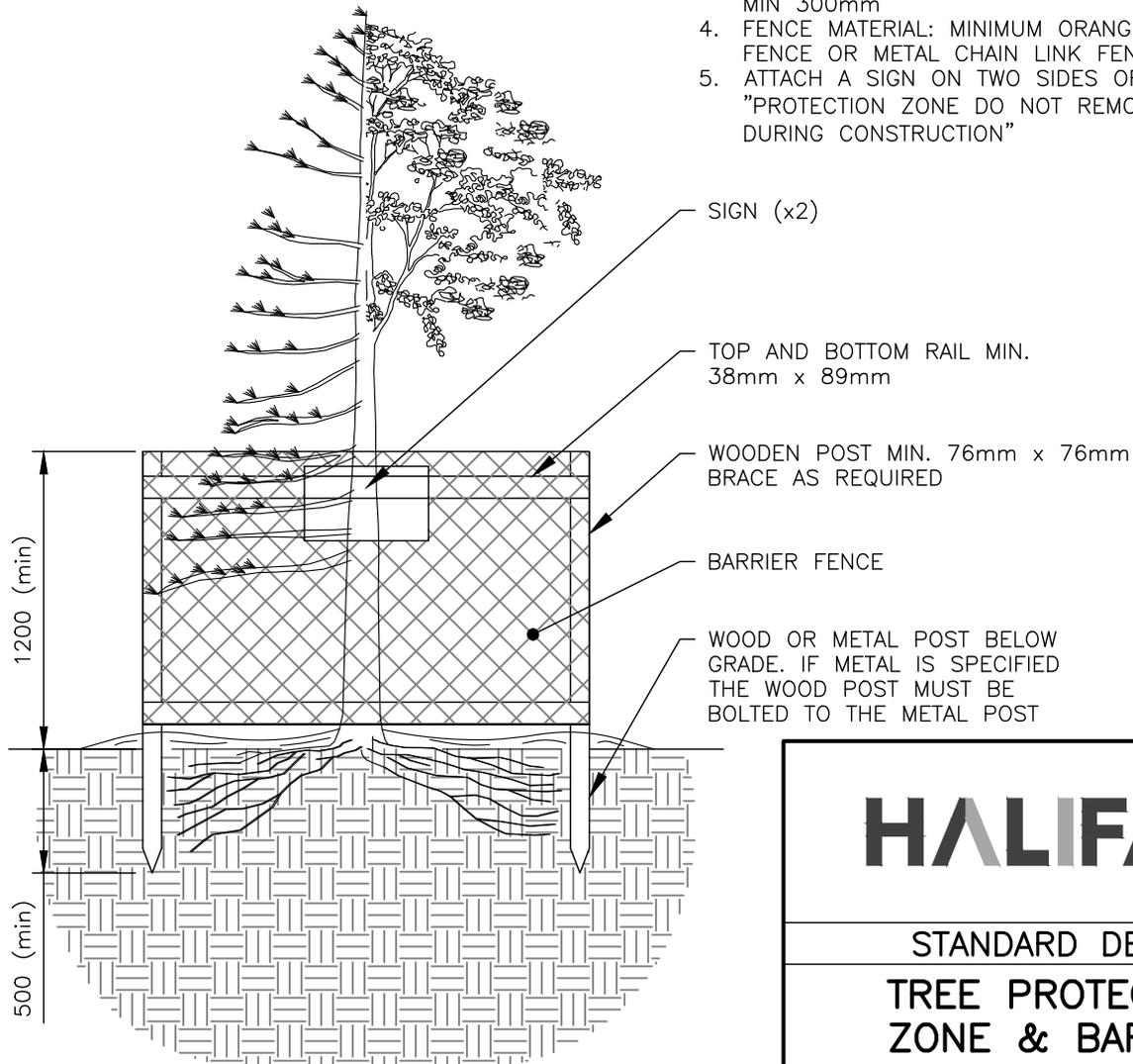
**PLAN**

**TABLE 1**

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



**PROFILE**

**HALIFAX**

STANDARD DETAIL

**TREE PROTECTION ZONE & BARRIER**

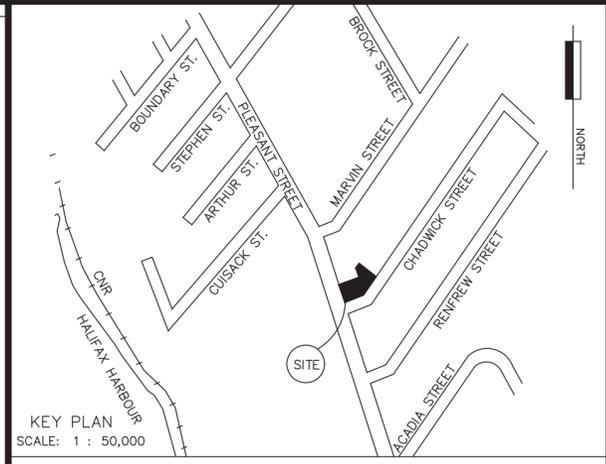
DATE:	2021	REFERENCE	APPROVED
SCALE:	NTS		FIG No.: <b>HRM 140</b>

## Appendix N – Rodent Control Plan

---

Bait Station  
(Pre Demolition)

Bait Station  
(Post Demolition)



LEGEND:

LANDS DEALT WITH BY THIS SURVEY	△ N.S.C.M.
NOVA SCOTIA CO-ORDINATE MONUMENT	○ S.M.
SURVEY MARKER	○ U.P.
UNMONUMENTED POINT	● R.P.
ROCK POST	○ I.B.
IRON BAR	⊗ I.P.
IRON PIPE	⊗ W.S.
WOOD POST, WOOD STAKE	□ W.P.
FOUND, WITNESS, NOT TO SCALE	Fd., Wit. (N.T.S.)
PLAN, DEED	(P), (D)
CALCULATED FROM FIELD MEASUREMENTS	calc.
TIE LINE, TOTAL	(T/L) (T)
BEGINNING OF CURVE, END OF CURVE	B.C., E.C.
POINT OF COMMON CURVATURE, POINT OF REVERSE CURVATURE	P.C.C., P.R.C.
RADIUS, ARC, CHORD	R, L, C
ORDINARY HIGH WATER MARK	O.W.H.M.
WATER VALVE, CATCH BASIN	WV CB

**Bait Station Legend**

Pre Demolition	●
Post Demolition	●

-  
**Rodent Control Plan**  
 -  
 Prepared for  
**Rentokil Pest Control**  
 -  
**902-835-2304**  
 -  
**P.O. Box 997, Halifax, NS**



**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](http://www.belllabs.com)

ALL-WEATHER  
**BLOX™**



**CONTRAC®**  
**ALL-WEATHER BLOX™**

**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)**

**FIRST AID**  
HAVE LABEL WITH YOU WHEN OBTAINING TREATMENT ADVICE

**IF SWALLOWED:**

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

**IF ON SKIN OR CLOTHING:**

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

**IF IN EYES:**

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

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

**NOTE TO PHYSICIAN**

If swallowed or absorbed through the skin, this material may reduce the clotting ability of the blood and cause bleeding. If ingested, administer Vitamin K<sub>1</sub> 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 K<sub>1</sub>. If needed, check prothrombin times every 3 days until values return to normal (up to 30 days). In severe cases, blood transfusions may be needed.

**DIRECTIONS FOR USE**

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

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

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

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

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

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

587CB-9

**CONTRAC**<sup>®</sup>  
ALL-WEATHER BLOX<sup>™</sup>

**KILLS RATS, MICE, AND MEADOW VOLES\***

**Kills Warfarin Resistant Norway Rats**

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

**ACTIVE INGREDIENT:**

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

OTHER INGREDIENTS: . . . . . 99.995%

†Contains Denatonium Benzoate TOTAL 100.000%

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See side panels for First Aid and additional precautionary statements.

**STORAGE AND DISPOSAL**

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

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

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

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

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

**NET WEIGHT: 18 lbs (8.2 kg)**

EPA REG. NO. 12455-79

EPA EST. NO. 12455-WI-1

Manufactured by:

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

**DIRECTIONS FOR USE** (Continued from other panel)

Burrow baiting with Contrac All-Weather Blox is prohibited.

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

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

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

**APPLICATION DIRECTIONS:**

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

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

**FOLLOW-UP:** Replace contaminated or spoiled bait immediately.

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

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

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

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

**User Safety Requirements**

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

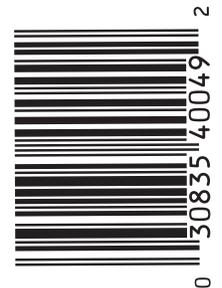
**ENVIRONMENTAL HAZARDS**

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

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

Product Code: CB4051

090415/09-15





# DETEX<sup>®</sup> 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<sup>®</sup> 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
<b>Inert and Non-Hazardous Ingredients</b> (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

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

<b>Components</b>	<b>NTP</b>	<b>IARC</b>	<b>OSHA</b>
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.

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

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

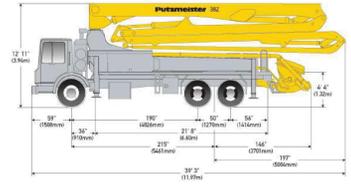
## Appendix O – CMP’s TCP & PMP Inspection Records

---

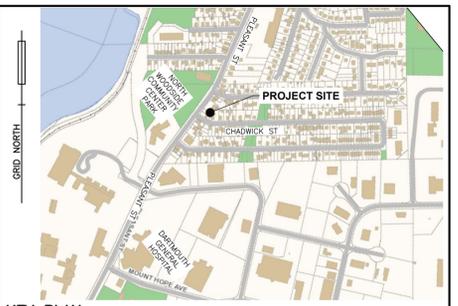
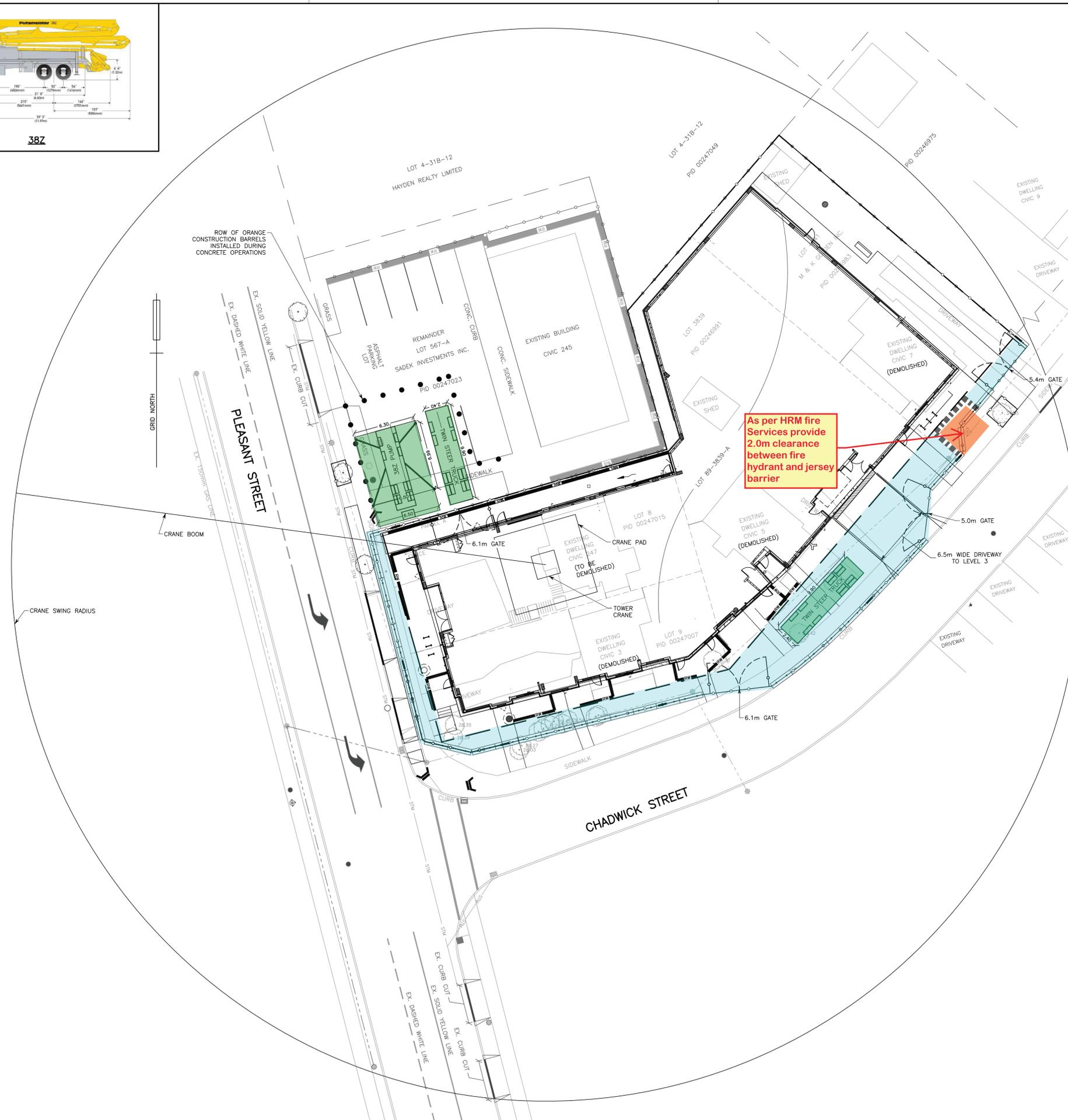


## Appendix P – Concrete Delivery Schematic

---



38Z



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	—
—	TOE OF SLOPE	—
—	TREELINE	—
—	LIMITS OF DISTURBANCE	—
—	TACTILE PEDESTRIAN PLATES	—
—	PROJECT SAFETY SIGNAGE	—
—	ORANGE SAWHORSE BARRICADE	—

**NOTES**  
 1. THIS PLAN IS IN METRIC.

No.	YY/MM/DD	Revision Description	Appr'd
2	23/11/10	REVISED PER HRM COMMENT	
1	22/07/18	REVISED BUILDING LOCATION	
0	21/08/25	ISSUED FOR REVIEW	

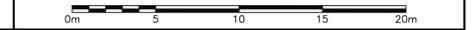


**SDMM**  
 Servant, Dunbrack, McKenzie & MacDonald Ltd.  
 NOVA SCOTIA LAND SURVEYORS & CONSULTING ENGINEERS  
 36 ISLAND CRESCENT, DARTMOUTH, NOVA SCOTIA  
 PHONE: (902) 455-1537 FAX: (902) 455-9479  
 3675 LANE BUSINESS PARK, WOLFAX, NS B3S 1G8 WEB: www.sdmm.ca

**PROPOSED MULTI-UNIT BUILDING  
 247 PLEASANT STREET  
 DARTMOUTH, NOVA SCOTIA**

**CONCRETE DELIVERY SCHEMATIC**

Date	August 25, 2021	Drawn	D. ANDERSON	Project No.	FILE NO. 1-7-241 (35789)
Scale	1:200	Engineer	G. MACLEAN	Plan No.	
Reference	Approved	Approved	G. MACLEAN	Drawing Name	
Surveyed	Sheet				R2



## Appendix Q – Crane Information

---

City Driving School

Crane Operations

Marvin St

Trans Canada Trail

322

Crane Radius

Dartmouth South Professional Centre

ROW OF CRANE CONSTRUCTION BARRIERS INSTALLED DURING CONCRETE OPERATIONS

PLEASANT STREET

Crane Boom

CRANE SWING RADIUS

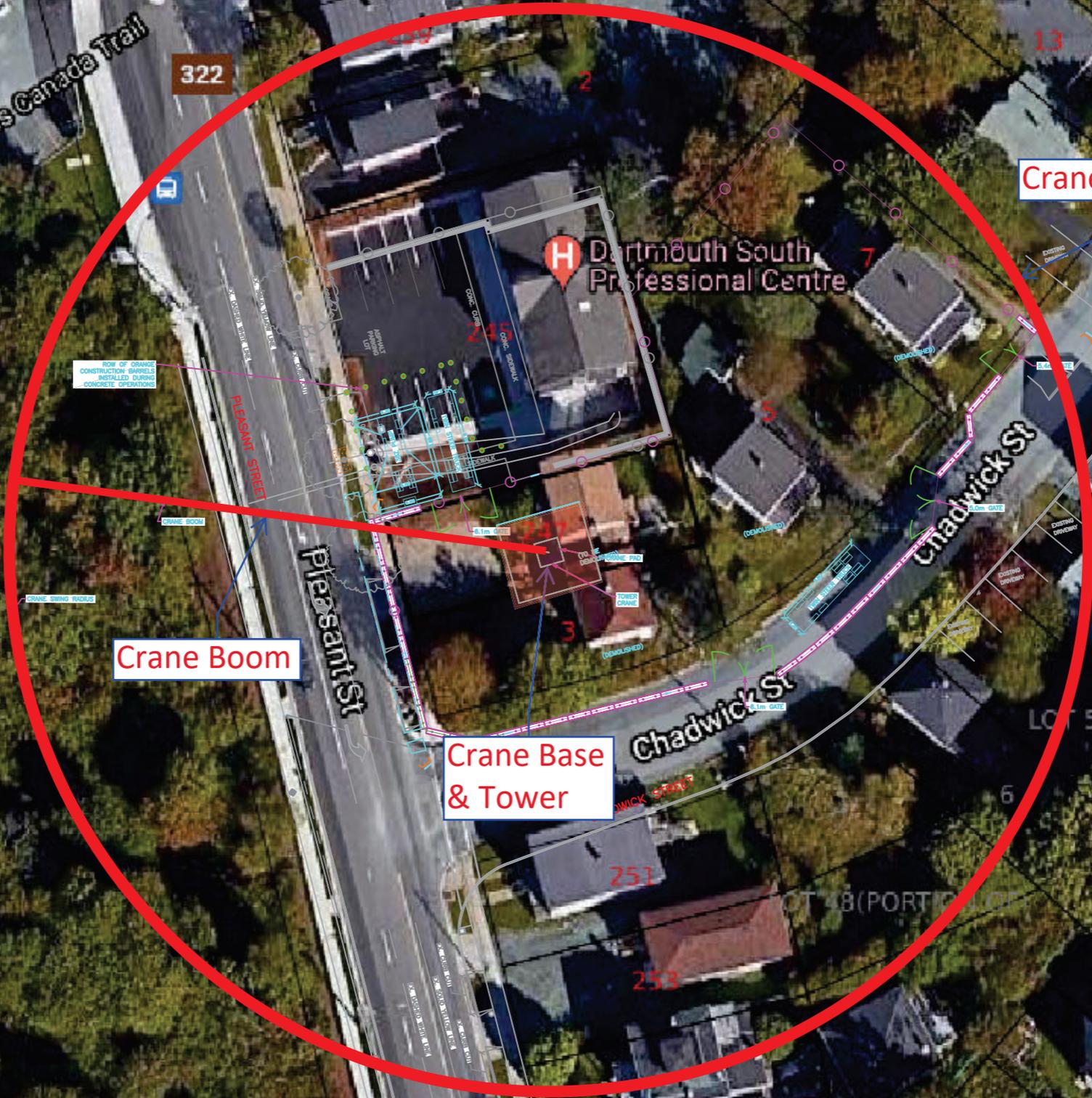
Crane Base & Tower

Chadwick St

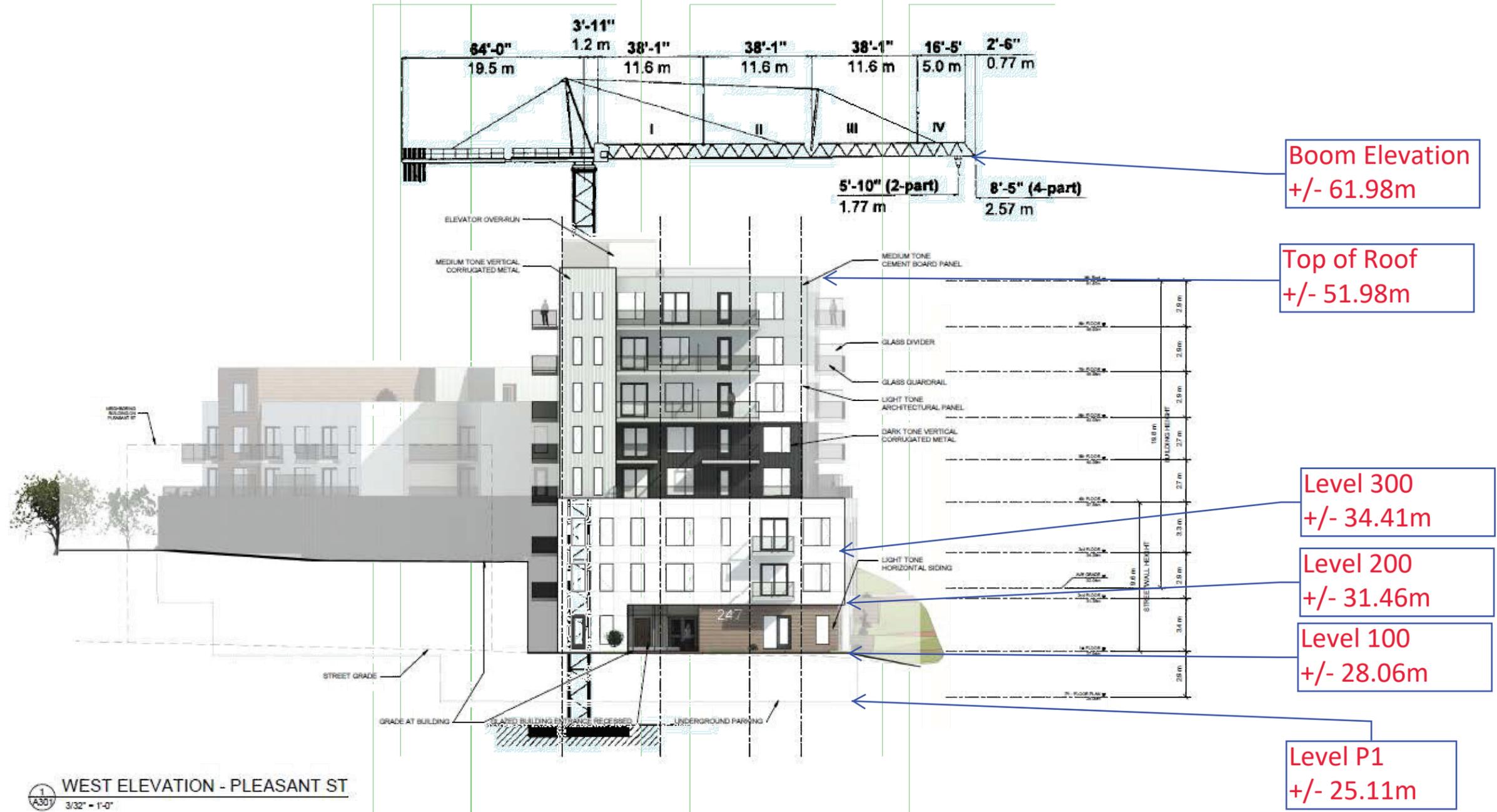
322

Chadwick St

Renfrew St



Crane Operations

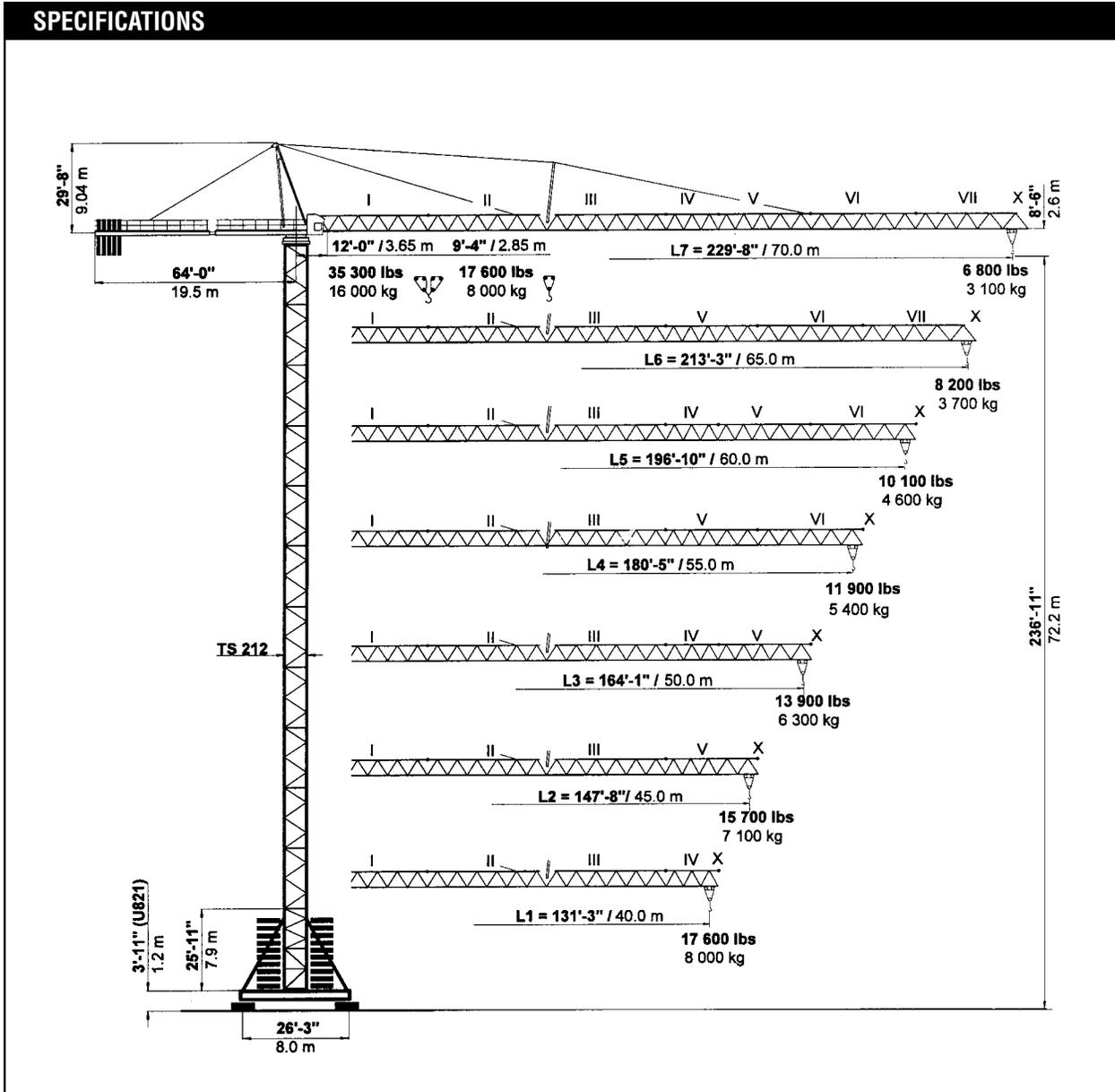




# PEINER SK 315

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

## SPECIFICATIONS



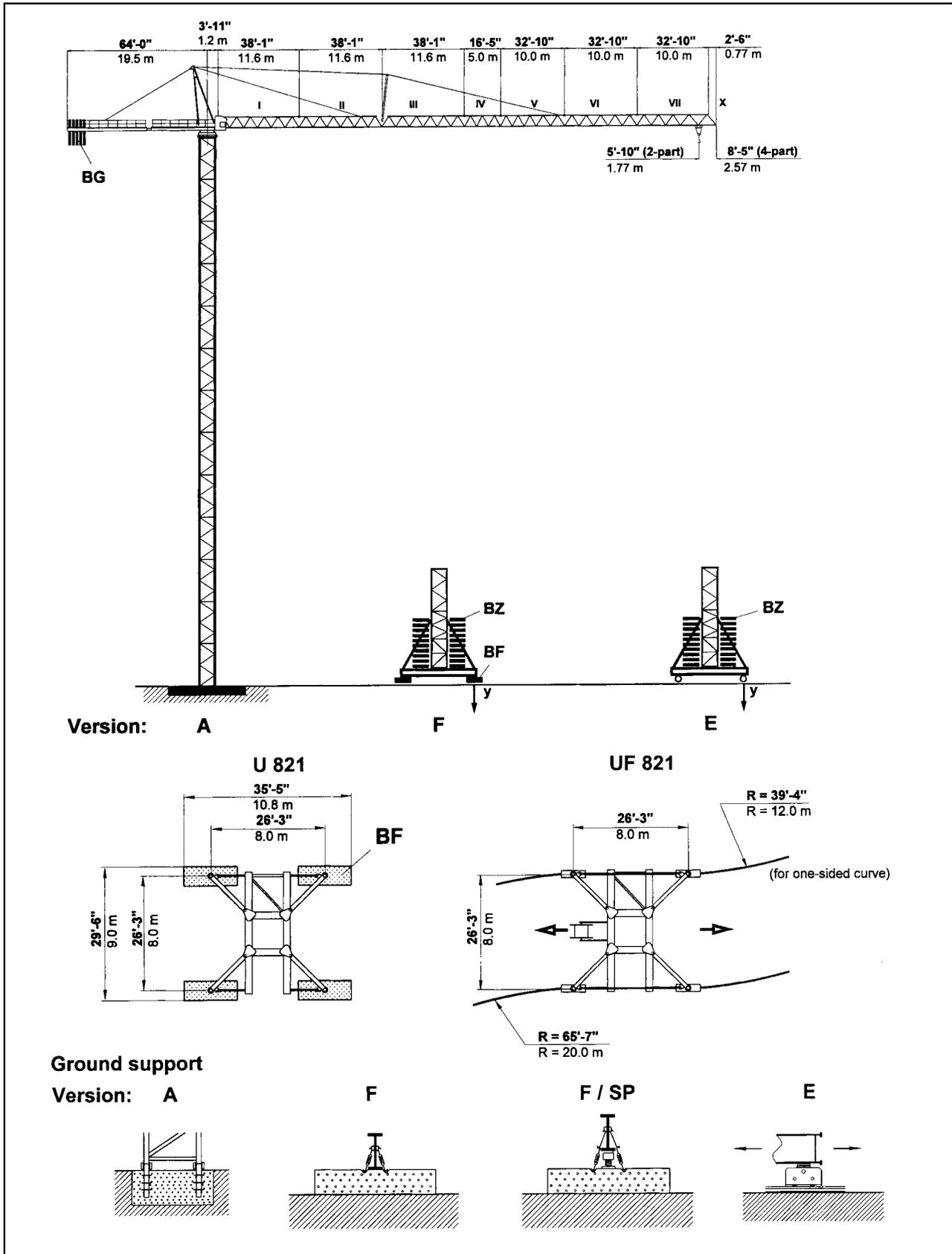
simple, available and  
cost effective™

Machines shown may have optional equipment.

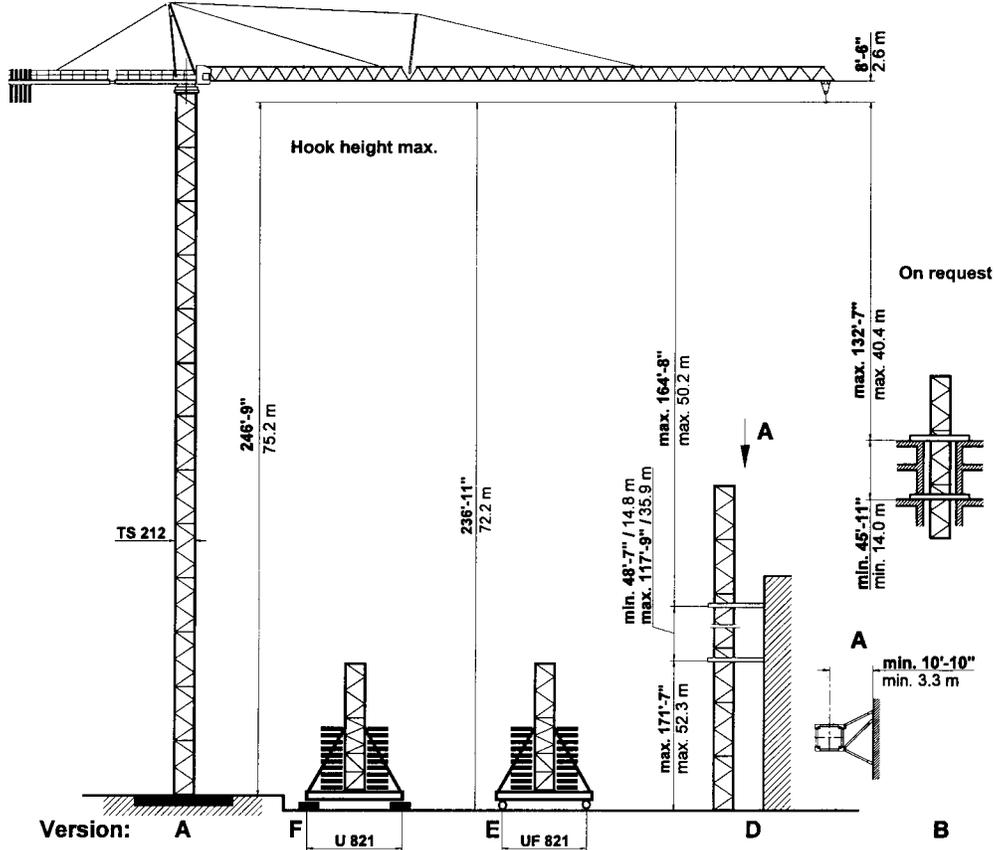


# PEINER SK 315

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.	Radius – ft./m Capacity – lbs./mt																	
		2-Part Line  max. 17,600 lbs max. 8.0 t																	
ft m	17,600 lbs 8.0 t	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	17600	17400	14800	12800	11900	11200	10600	10100	9500	9000	8600	8200	7700	7500	7100	6800
L6	213'-3" 65.0	9'-4" - 105'-0" 2.85 - 32.0 m	17600	17600	17600	16100	13900	13000	12300	11500	11000	10400	9900	9300	8800	8600	8200		
L5	196'-10" 60.0	9'-4" - 117'-9" 2.85 - 35.9 m	17600	17600	17600	17600	15700	14600	13900	13000	12300	11700	11200	10600	10100				
L4	180'-5" 55.0	9'-4" - 124'-8" 2.85 - 38.0 m	17600	17600	17600	17600	16800	15400	14800	13900	13200	12300	11900						
L3	164'-1" 50.0	9'-4" - 130'-11" 2.85 - 39.9 m	17600	17600	17600	17600	17600	16300	15400	14600	13900								
L2	147'-8" 45.0	9'-4" - 131'-11" 2.85 - 40.2 m	17600	17600	17600	17600	17600	16500	15700										
L1	131'-3" 40.0	9'-4" - 131'-3" 2.85 - 40.0 m	17600	17600	17600	17600	17600												
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	19600	16100	13200	11200	10400	9700	9000	8600	7900	7500	7100	6600	6200	6000	5500	5300
L6	210'-8" 64.2	12'-0" - 52'-2" 3.65 - 15.9 m	23800	21600	17400	14600	12600	11500	10800	9900	9500	8800	8400	7700	7500	6800	6600		
L5	194'-3" 59.2	12'-0" - 57'-9" 3.65 - 17.6 m	26900	24500	19800	16800	14300	13000	12300	11500	10800	10100	9700	9000	8600				
L4	177'-10" 54.2	12'-0" - 61'-0" 3.65 - 18.6 m	28700	26000	21200	17900	15200	14100	13200	12300	11700	10800	10400						
L3	161'-5" 49.2	12'-0" - 63'-8" 3.65 - 19.4 m	30200	27300	22300	18700	16100	14800	14100	12800	12300								
L2	145'-0" 44.2	12'-0" - 64'-0" 3.65 - 19.5 m	30400	27600	22500	19000	16300	15000	14100										
L1	128'-7" 39.2	12'-0" - 66'-3" 3.65 - 20.2 m	31700	28700	23600	19800	17000												

**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 <sup>-1</sup> )	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	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
4-Part Line	→ 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
	Section II		11.89	1.52	1.78	1.72	32.2
	Section III		38.65	4.99	6.17	4 320	1 190
	Section IV		11.78	1.52	1.88	1.96	33.7
	Section V		19.19	4.99	5.41	1 760	519
	Section VI		5.85	1.52	1.65	0.80	14.7
	Section VII		35.34	4.99	5.45	3 090	961
	Jib tip X		10.77	1.52	1.66	1.40	27.2
			36.03	4.99	5.48	2 470	985
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.

**Bigge Crane and Rigging Co.**

10700 Bigge Avenue  
San Leandro, CA 94577  
Phone: (888) 337-BIGGE or (510) 638-8100  
Fax: (510) 639-4053  
Email: towers@bigge.com  
Web site: www.biggetowercrane.com

 **TEREX TOWERS**

202 Raleigh Street  
Wilmington, NC 28412 USA  
(910) 395-8500 • FAX: (910) 395-8547  
E-mail: wilmington@terexlifting.com



[www.terexlift.com](http://www.terexlift.com)

