# Pleasant Street Development 171 Pleasant Street

**Building Construction** 

Prepared by Geoff MacLean, P.Eng.

Job No. 36876

#### CONSTRUCTION MANAGEMENT PLAN

1	MAY 2023	REVISED AS PER HRM COMMENTS
0	MAR 2023	ISSUED FOR REVIEW
REVISION #	DATE	DESCRIPTION





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# **Revisions Summary**

Revision 1 – Sections; 1.1, 2.1, 2.2 4.1, 4.3, 5, 7.1, 7.2, 7.3, & 8.2, Appendies A, B, D, & P

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Prepared by

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In consultation with the Landowner, contractor, traffic control company and HRM.



#### **Section 1: Introduction**

#### 1.1: Project Description and Objectives

Primo Properties Ltd. is proposing to redevelop their consolidated lands located on Pleasant Street, Dartmouth. The consolidated lot formerly housed a community church at civic 171 Pleasant Street (PID 00240192). The former church building was previously demolished in preparation for this development. The planned development will include a new 137-unit 8 level residential building with a mixture of 2 level townhouses and single level apartments with barrier free units, a rooftop penthouse and outdoor amenity space with 1 level of underground parking and 2 upper parking levels accessed on the main level from Pleasant Street. This CMP has been prepared to address excavation, services and building construction.

Where the new residential building is planned to have 1 level of underground parking, deep excavations (+/- 10ft) fronting the HRM Right of Way (ROW) are required for the project, for public safety from excavation limits and construction activities they are proposing the project encroachments in 3 phases.

- Phase 1 A row of modular construction fencing will be installed at the street line along Pleasant Street. This fencing will be weighted down to prevent unintentional movement or overturning due to snow or wind. The sidewalk will remain open to the public during this phase, no encroachments will be required. During this initial phase site excavation will begin and maintain 5m setback from the street ROW allowing for the majority of the site to be excavated down to subgrade. Street wall excavation will wait until after phase 2 of the encroachment has been established.
- Phase 2 The sidewalk fronting the project will be closed allowing for excavation to extend to the ROW for the street wall installation. A row of interlocking concrete jersey barriers with ridge fencing mounted on top will be installed along the curb line. The proposed encroachment will temporarily relocate pedestrian traffic to the opposite side of the street, while maintaining two-way vehicular traffic on Pleasant Street. To facilitate pedestrian movement around the project, a temporary marked crosswalk will be installed prior to the phase 2 encroachment setup fronting civic 159 & 161 Pleasant Street. This encroachment should allow for construction of the lower levels of the building and service installation.
- Phase 3 A portion of the parking lane on Pleasant Street directly in front of the project will be added to the to the encroachment to accommodate an enclosed truck layby. This encroachment will close several unmetered on street parking spaces in front of the project, require a portion of the yellow centerline to be altered, while maintaining two-way vehicular traffic with two 3.5m wide travel lanes passing the encroachment. The interlocking barriers will be set 3m from the curb to accommodate transport truck deliveries, concrete placement while providing added space for workers. This encroachment will allow for final building construction with street level access for large deliveries.

Only during service work do we anticipate short term temporary lane closures. It is noted that all service work required within the street right-of-way will be completed prior to phase 3 encroachment setup. It is anticipated that the crane assembly will be on private property while disassembly will be stationed on Pleasant Street within the encroachment.

The project borders residential properties along its property lines, to the west across Pleasant Street is Newcastle Street Park. Neighbouring properties will remain undisturbed throughout all construction phases and all neighbours will be notified and updated on construction ahead of time.

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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
Landowner	Primo Properties Limited	Jim Kanellakos	1625 Grafton Street, Unit 1500 Halifax, NS B3J OE8	(902) 471-4349 24 Hour Emergency Contact
Site Contractor	Dexter Construction Company Limited	Barry Cole	927 Rocky Lake Drive, Bedford, Nova Scotia, B4A 3Z2	(902) 835-3381
Traffic Control Company	Frontline Traffic Services	Phil Pruneau	6 Belmont Avenue, P.O. Box 89 Eastern Passage, NS B3G 1M7	(902) 818-5548
Rodent Control Company	Rentokil Pest Control	Main Office	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	April 15, 2023	-	Oct 15, 2023	5 months
Demolition	n/a	-	n/a	-
Site Excavation	May 1, 2023	-	Jul 31, 2023	3 Months
Substructure	Jun 1, 2023	-	Nov 30, 2023	6 Months
Superstructure	Sep 1, 2023	-	Jun 23, 2024	10 Months
Service Abandonments	Jun 1, 2023	-	Jun 31, 2023	1 weekend
Service installs	Jun 1, 2023	-	Jun 30, 2023	2 weekends
HRM Right of Way Flat Works	Jun 1, 2024	-	Jun 15, 2024	2 weeks
Site Flat Works	Jul 1, 2024	-	Jul 15, 2024	2 weeks

#### 2.2: Key Dates

Set up Phase 1 fencing along property line
 May 1, 2023

Take-over Phase 2 encroachment
 June 1, 2023

Sidewalk closure

Take-over Phase 3 encroachment
 July 1, 2023

Sidewalk closure

Street lane encroachment

• Finish encroachment May 1, 2024

Duration of encroachment
 11 months



Temporary lane/road closures:

Pleasant Street Service abandonments (civic 171)
 Pleasant Street Sewer service install
 Pleasant Street Water service install
 Pleasant Street Water service install
 Pleasant Street Fire hydrant service install
 June 10 & 11, 2023 (weekends only)
 June 10 & 11, 2023 (weekends only)

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.

### 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;
- 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;
- I) 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.

We are proposing an altered centerline along Pleasant Street, to accommodate the phase 3 encroachment, two-way vehicular traffic on Pleasant will be maintained with two 3.5m wide travel lanes to accommodate local traffic. Only during phase 2 service work do we anticipate short term temporary lane closures being required. It is anticipated that tower crane assembly will reside within private property while disassembly will be contained within the encroachment area. 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 construction activities concrete and material deliveries shall be contained within the encroachment areas. We anticipate concrete deliveries entering the south gate and existing the north gate on Pleasant with traffic flow. 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. HRM must be notified prior to issuing the notification to neighbours.

#### 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

Un-metered parking directly in front of the project will be occupied by the phase 3 Pleasant Street encroachment. On street parking will be affected by this project. It is noted that passenger vehicles are not permitted to park within any encroachment areas. 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 is a bus stop directly across Pleasant Street from the project site. Bus service traveling along Pleasant will not be affected by this project as two 3.5m wide travel lanes will be maintained.

#### 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 phases 2 & 3 of construction, the project will close the sidewalk in front of the project on Pleasant. 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. A temporary marked crosswalk will be provided for public access fronting civic 159 & 161 Pleasant Street.

#### 5.1: Pedestrian Protection

Pedestrians will be protected by physically distancing them from the project. A combination of rigid construction fencing and F-type concrete barriers with rigid fencing mounted above will delineate the project during the construction activities. Rigid fencing will be covered with opaque covering to block view of the site. Refer to the appendix for examples of the fencing and 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.

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#### 5.5: Accessibility

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

#### 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 is not anticipated for this project.

#### 5.8: Pedestrian Detour Wayfinding Signage

The need for pedestrian wayfinding signage directing pedestrians to adjacent businesses is not anticipated for this project.

### **Section 6: Encroachments & Disruptions**

During construction, we area anticipating two phases whereby encroachments of the ROW are required. With phase 2 we are proposing the project encroachment area will incorporate the public sidewalk while with phase 3 we are proposing use of the public sidewalk and the parking lane on Pleasant Street. This will move pedestrians to the opposite side of the street. This encroachment is to keep the public away from the excavation zone of influence as well as provide additional space for site workers and deliveries within the encroachment area, un-metered on street parking will be temporarily closed on Pleasant Street in the front of civic 163-171.

The encroachment on Pleasant Street is planned to be delineated by interlocking F-type concrete barriers complete with rigid fencing with opaque coverings in both phases.

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 demolition phase of this project was completed by the previous landowner. This CMP does not speak to demolition.

#### 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 street grade facing Pleasant Street. If bedrock is found, 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

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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 and/or be completely replaced within the encroachment area. This includes reinstatement of the HRM tree lawn, sidewalk, curb and gutter post construction and removal of the proposed temporary crosswalk and pedestrian ramps on 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 31st or prior to May 1 in which case permanent reinstatement will be completed by June 15 of the following construction season.

#### 7.2: Protection of Trees

There are two (2) trees that resides on private property near the ROW and two (2) HRM street trees within the public right-of-way directly adjacent to the project fronting 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

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place. Adjacent street trees are to be protected during construction in accordance with the HRM Tree Bylaw (T-600). Refer to HRM tree protection detail in the appendix.

Due to the tree locations, we are proposing to remove both the private and two (2) HRM street trees within the public right-of-way directly adjacent to the project.

#### 7.3: Line Painting and Temporary Crosswalks

An altered centreline and temporary crosswalk are proposed for this project. Refer to the line painting plan in the appendix.

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

The portion of public street adjacent to the project will be cleaned daily of any debris from trucks and silt, dirt, or rock that migrates beyond the encroachments. A sweeper truck will be utilized as required. Rock pads will be installed and maintained at all site entrances behind the curb line to knock dirt free from truck tires with aim to reduce off tracking of site soils.

Where the landowner plans to utilize the street as part of the encroachment the landowner 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 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). No work will take place on the project site outside those hours identified in section 2 of this report.

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

Breaking of rock may occur 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.

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#### 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 site excavation and building 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 excavation 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

Throughout the phases of construction activities, the encroachment will be delineated using a combination of rigid fencing or interlocking F-type concrete jersey barriers complete with rigid fencing secured to the jersey barrier with a total height (concrete barrier and fencing structure) being 1.8m or 6ft as per the noted administrative order. This fencing along will be covered with an opaque dust control mesh of high quality which will extend a minimum 3m from the public right-of-way. This screening is described in the appendix and will block passersby or tourists view of the construction site. Throughout the project, fencing will be situated to not obstruct vehicle sight lines.

Along the private sidelines where non-vehicular traffic is present, the hoarding will be delineated by weighted modular 1.5m (5ft) high fencing or existing fencing where it is at least 1.5m tall. All fencing will have opaque dust control mesh and must be anchored down to prevent unintentional movement or overturning due to snow or wind loads.

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 landowner, contractor and traffic control company will attend this site meeting. During the process of erecting and tearing down the traffic barriers, fencing and opaque 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.

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#### 8.2: Snow removal

The landowner will be responsible to remove snow and ice as required to ensure that emergency access is maintain to the project site, this includes fire hydrants. The contractor will not dump snow or ice onto adjacent property and will truck snow off site as required to prevent the unsafe build-up of snow piles.

The contractor will clear snow from outside the jersey barriers to keep the edge of the vehicle travel lane clear of snow and ice build up. This includes clearing snow from behind the three (3) jersey barriers stationed on the project side of the street to guide oncoming toward the altered street lane.

#### 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 Pleasant.

Any existing fire hydrants located adjacent to the site will remain protected from construction activities. These fire hydrants, along with the existing fire department 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. After the encroachment is established, the landowner may look to add renderings and advertisements to the fencing; a reduction in encroachment fees will be discussed at that time.

#### 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.

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It is anticipated that the crane assembly will be on private property while disassembly will be stationed on Pleasant Street within the encroachment area, 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 landowner will notify these property owners prior to extending the crane over their properties. Refer to the appendix for crane information.

Concrete trucks will be stationed within the encroachment area or private property during concrete operations. (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, concrete and material delivery trucks will be housed within encroachment area or private property on Pleasant Street.

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#### 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 Newcastle Street that will remain outside the project area and will be separated from construction activities. This fire hydrant, along with any existing fire department connections will be accessible to firefighters throughout all phases of the project.

The proposed fire department connection and proposed fire hydrant are not accessible 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 landowner 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 landowner, 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 wise to waive the requirement.

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#### 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
2:\SDMM\36000-36999\36850\36876\CMP\REV1\171 Pleasant St. - CMP (Rev1) - 36876.docx

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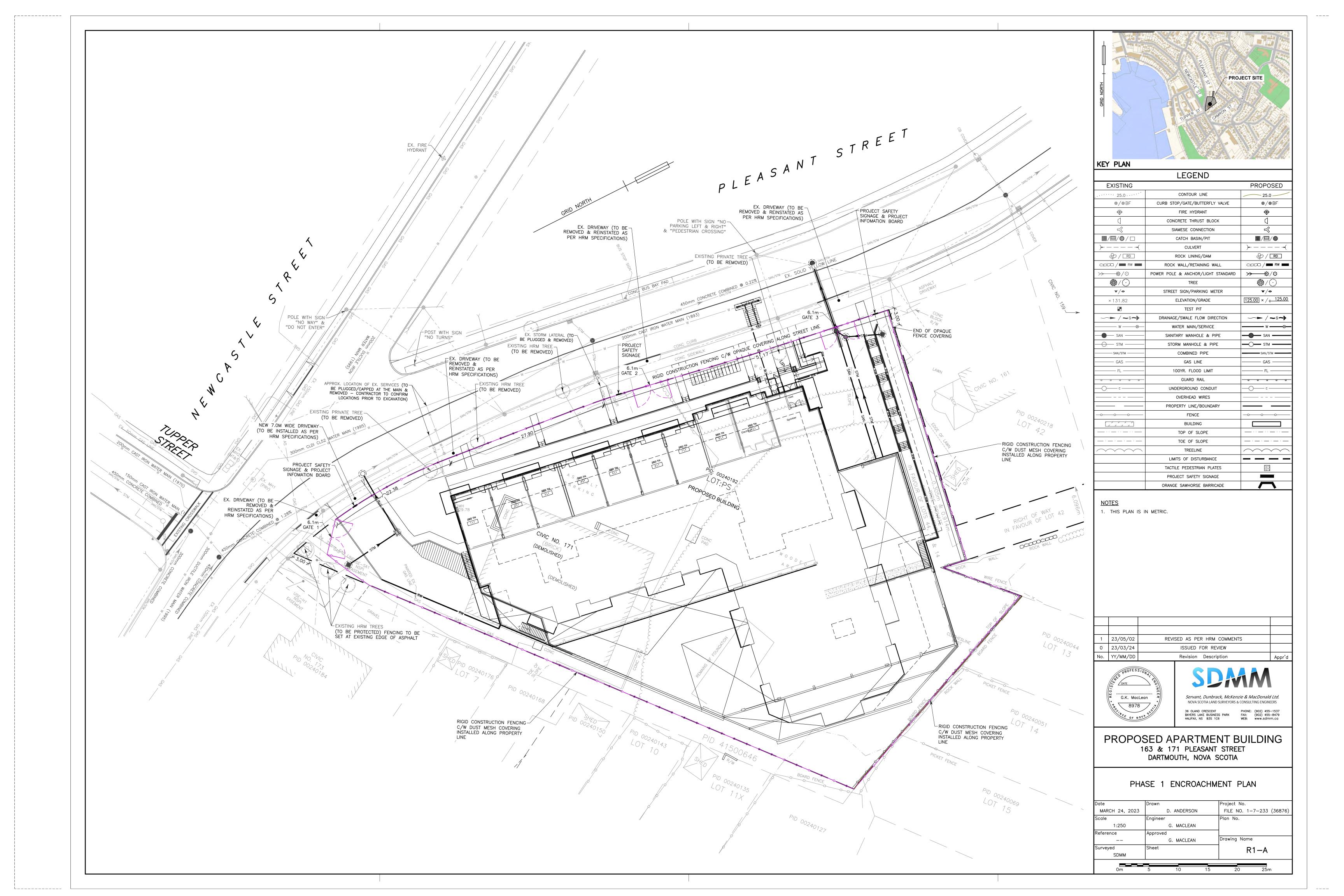
# **APPENDIX**

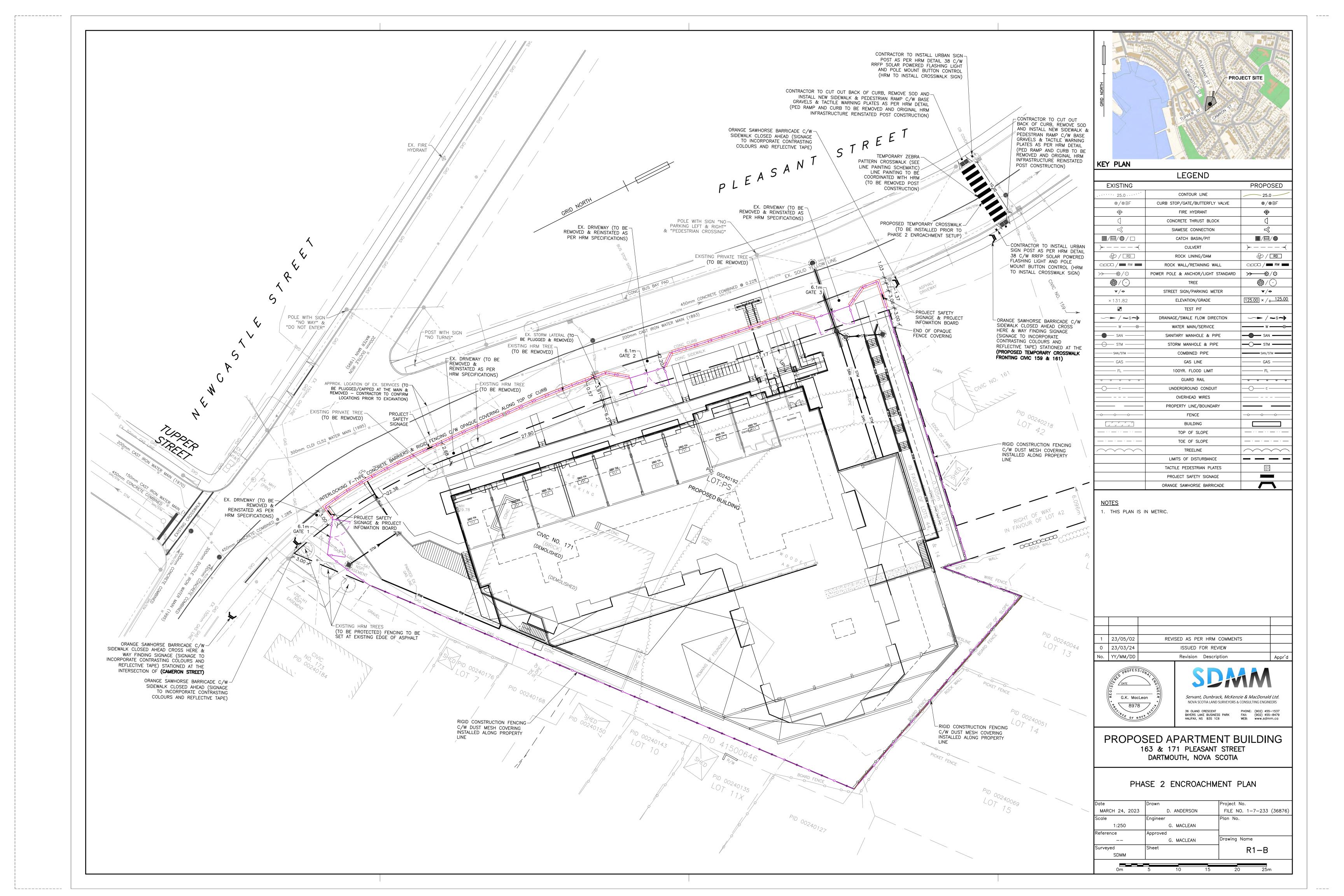
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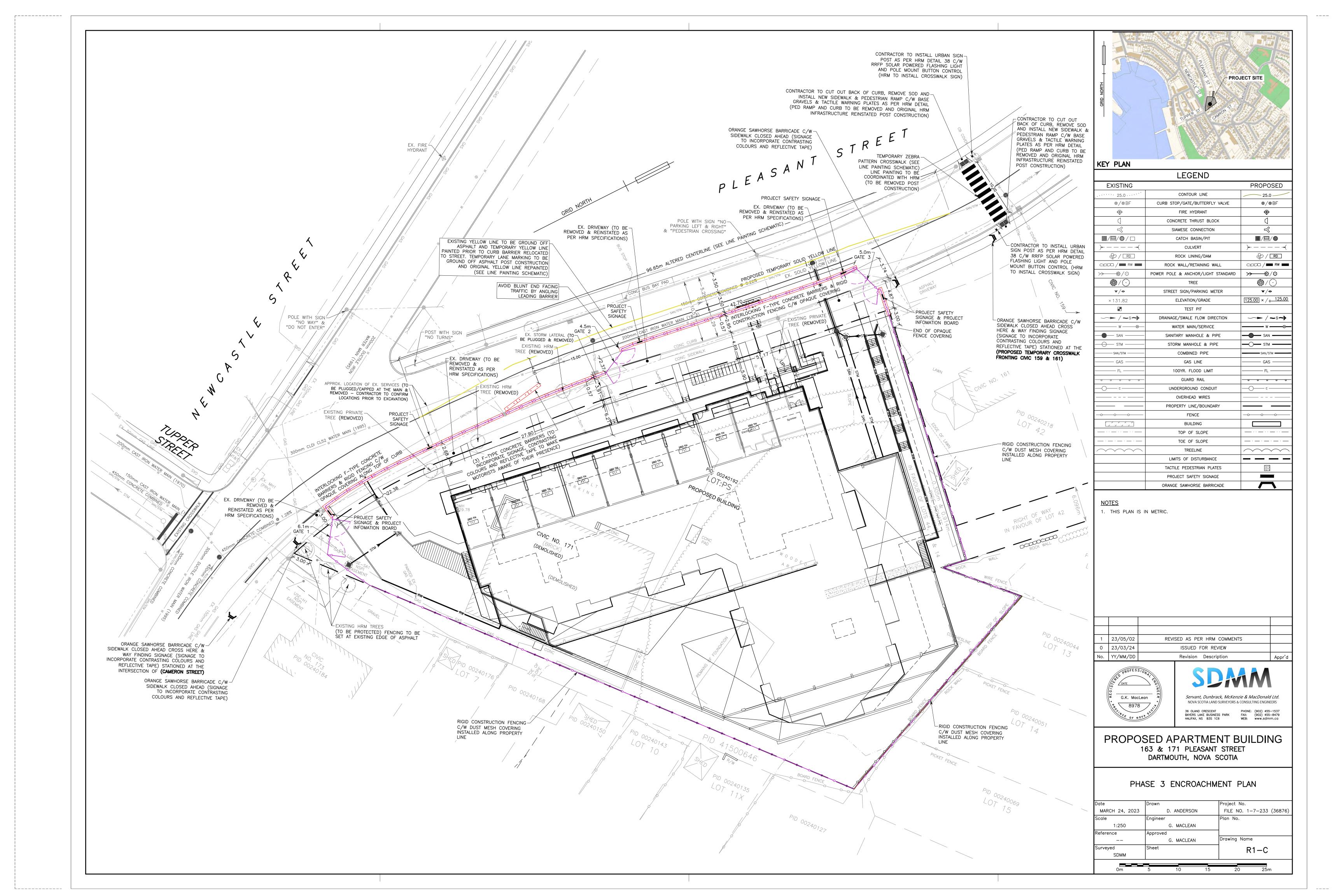


# Appendix A – Encroachment Plan

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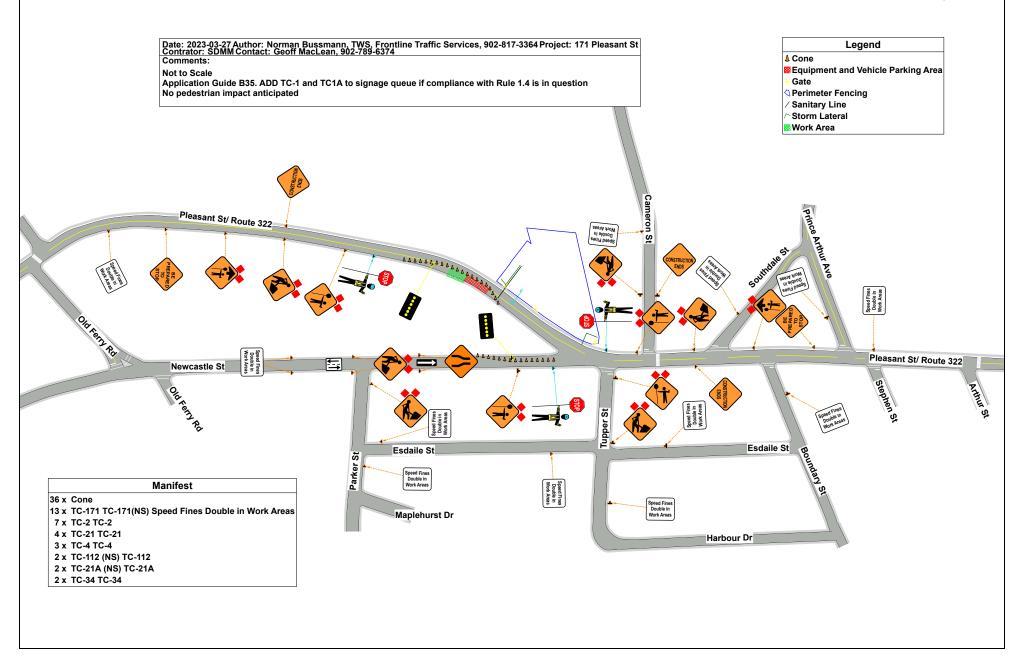
# Appendix B – Traffic Control Plans TCP

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# **Phase 1 Encroachment Plan** Date: 2023-03-27 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 171 Pleasant St Contrator: SDMM Contact: Geoff MacLean, 902-789-6374 Comments: Legend Perimeter Fencing Not to Scale / Sanitary Line Phase 1 Encroachment Plan Off Shoulder work area. No sidewalk encroachment. Storm Lateral Pleasant St/ Route 322 Pleasant St/ Route 322 Newcastle St Esdaile St Esdaile St Manifest 2 x TC-54L TC-54L Maplehurst Dr 2 x TC-54R TC-54R Harbour Dr

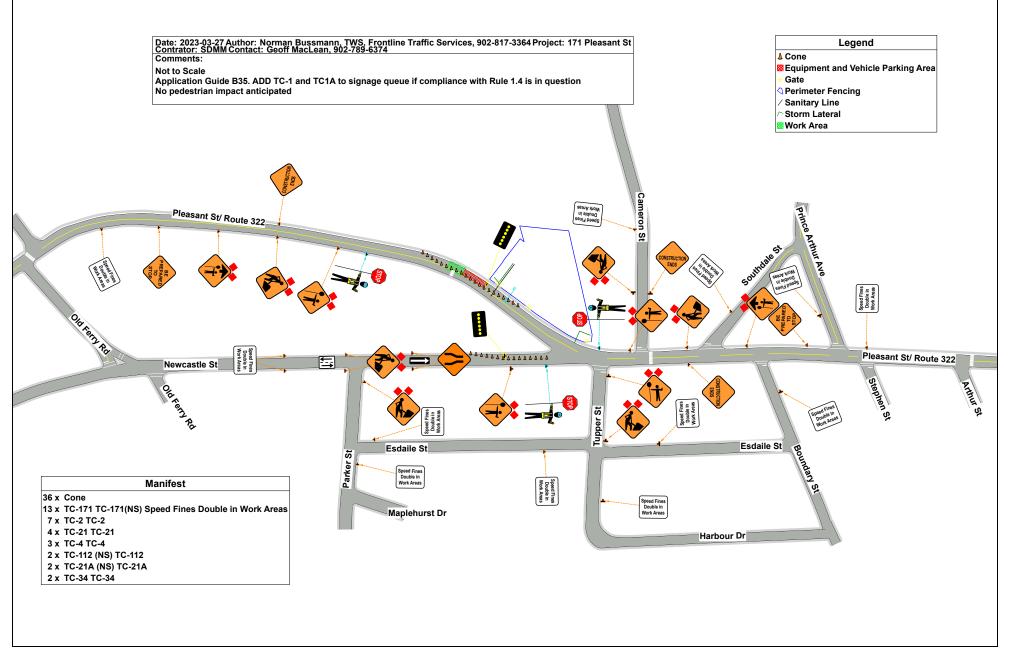
# Phase 1 Crosswalk Installation and Removal Plan Part 1





# Phase 1 Crosswalk Installation and Removal Plan Part 2





# **Phase 2 General Traffic Control Plan**

\*

Date: 2023-03-27 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 171 Pleasant St Contrator: SDMM Contact: Geoff MacLean, 902-789-6374

Comments:

Not to Scale

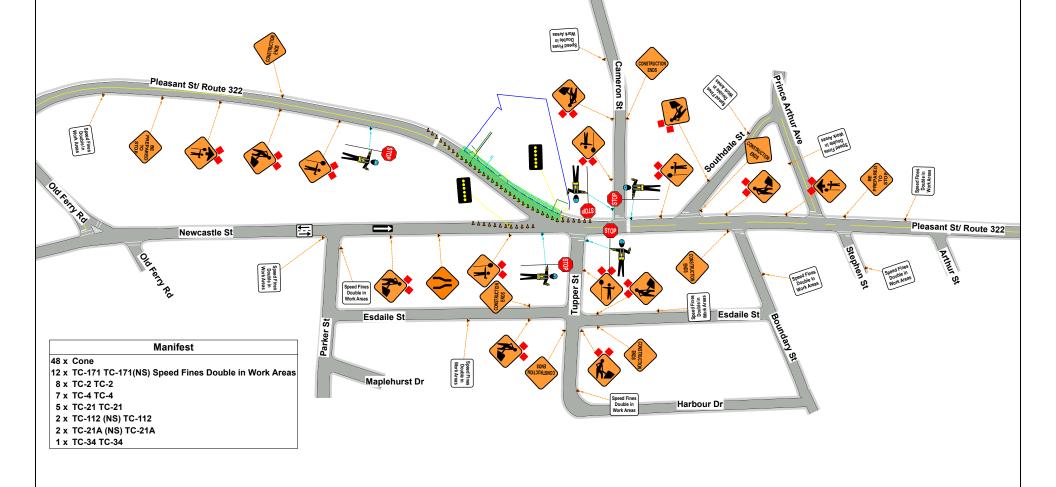
General Traffic Control Plan

Application Guide B35. ADD TC-1 and TC1A to signage queue if compliance with Rule 1.4 is in question

Use this plan for the following:

- 1) Barrier Installation and Removal
- 2) Curb and Sidewalk Replacement
- 3) Driveway Removal and Installation

See pedestrian management plan for sidewalk closure details



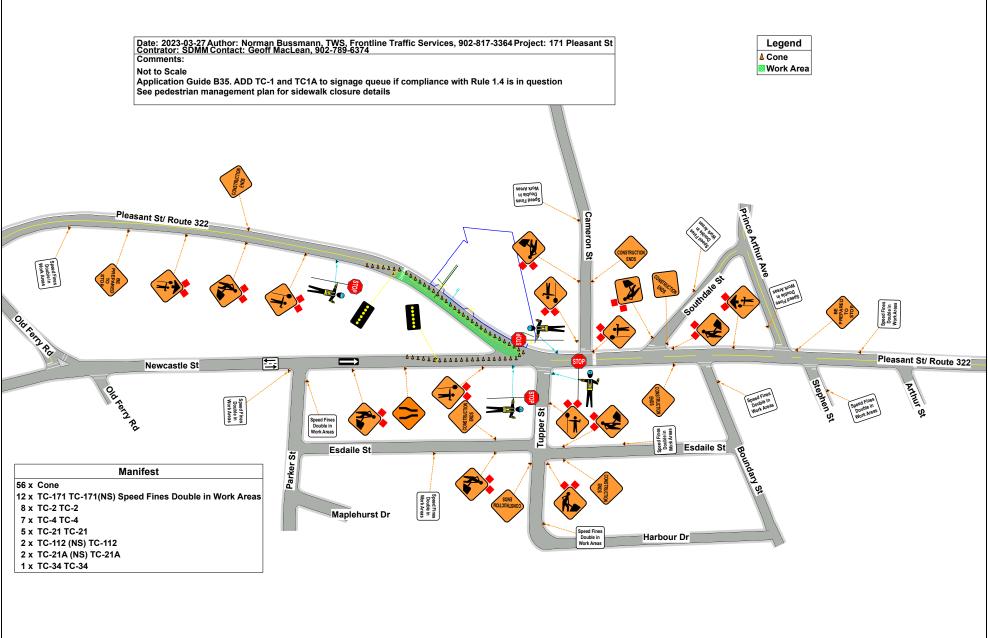
# **Phase 2 Encroachment Plan** Date: 2023-03-27 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 171 Pleasant St Contrator: SDMM Contact: Geoff MacLean, 902-789-6374 Comments: Legend Gate Perimeter Fencing Not to Scale Sanitary Lateral Off Shoulder work area See Pedestrian Management Plan for sidewalk closure details Storm Lateral Water Lateral Pleasant St/ Route 322 Pleasant St/ Route 322 Newcastle St Esdaile St Bounday Esdaile St Parker St Maplehurst Dr Manifest 4 x TC-103 (NS) TC-103 Harbour Dr

# **Phase 2 Sanitary Lateral Installation Plan** Date: 2023-03-27 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 171 Pleasant St Contrator: SDMM Contact: Geoff MacLean, 902-789-6374 Comments: Application Guide B35. ADD TC-1 and TC1A to signage queue if compliance with Rule 1.4 is in question See pedestrian management plan for sidewalk closure details Legend Barrel Equipment and Vehicle Parking Area Perimeter Fencing Work Area Work Area may require a changeover. Newcastle St Pleasant St/ Route 322 Pleasant St/ Route 322 \*\*\*\* Newcastle St See transfer of the see tr Esdaile St Parker St Manifest 49 x Barrel 17 x Cone 12 x TC-171 TC-171(NS) Speed Fines Double in Work Areas 8 x TC-2 TC-2 Maplehurst Dr 7 x TC-4 TC-4 5 x TC-21 TC-21 Harbour Dr 2 x TC-112 (NS) TC-112 2 x TC-21A (NS) TC-21A 1 x TC-34 TC-34

# **Phase 2 Water Lateral Installation Plan** Date: 2023-03-27 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 171 Pleasant St Contrator: SDMM Contact: Geoff MacLean, 902-789-6374 Comments: Not to Scale Application Guide B35. ADD TC-1 and TC1A to signage queue if compliance with Rule 1.4 is in question See pedestrian management plan for sidewalk closure details Legend Barrel **∆** Cone Equipment and Vehicle Parking Area Work Area Pleasant St/ Route 322 Pleasant St/ Route 322 \*\*\*\*\*\*\* Newcastle St Esdaile St Esdaile St Parker St Manifest 26 x Barrel 17 x Cone 12 x TC-171 TC-171(NS) Speed Fines Double in Work Areas 8 x TC-2 TC-2 Maplehurst Dr 7 x TC-4 TC-4 5 x TC-21 TC-21 Harbour Dr 2 x TC-112 (NS) TC-112 2 x TC-21A (NS) TC-21A 1 x TC-34 TC-34

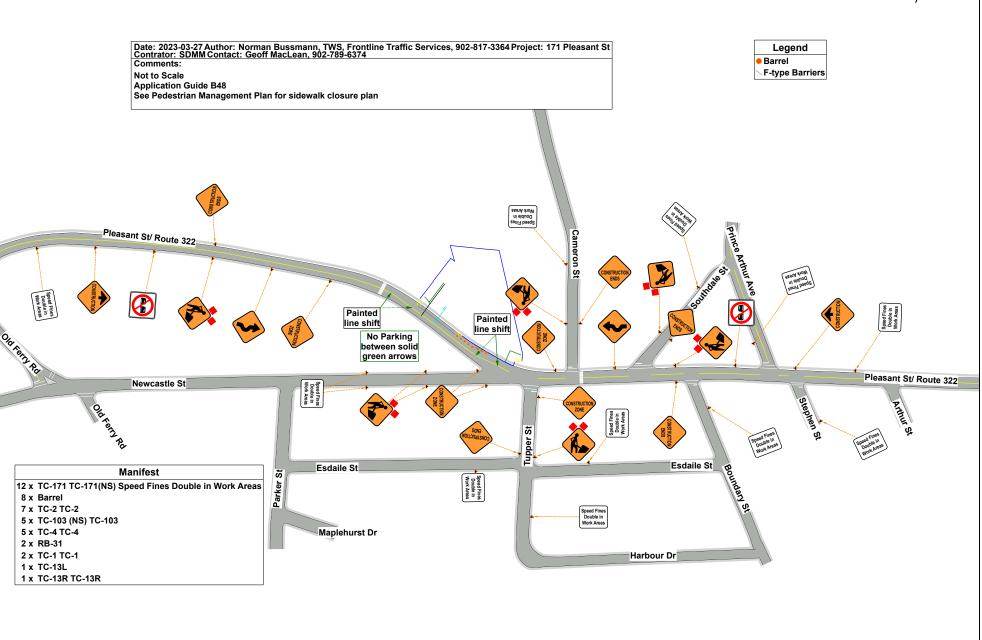
# **Phase 2 Centerline Alteration and Restoration Plan**





# **Phase 3 Encroachment Plan**







# Appendix C – Haul Route Plan

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# **Haul Route Plan**

Date: 2023-03-27 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 171 Pleasant St Contrator: SDMM Contact: Geoff MacLean, 902-789-6374

Comments:

Not to Scale

Haul Route Inbound via Hwy 111 to Pleasant St to Site

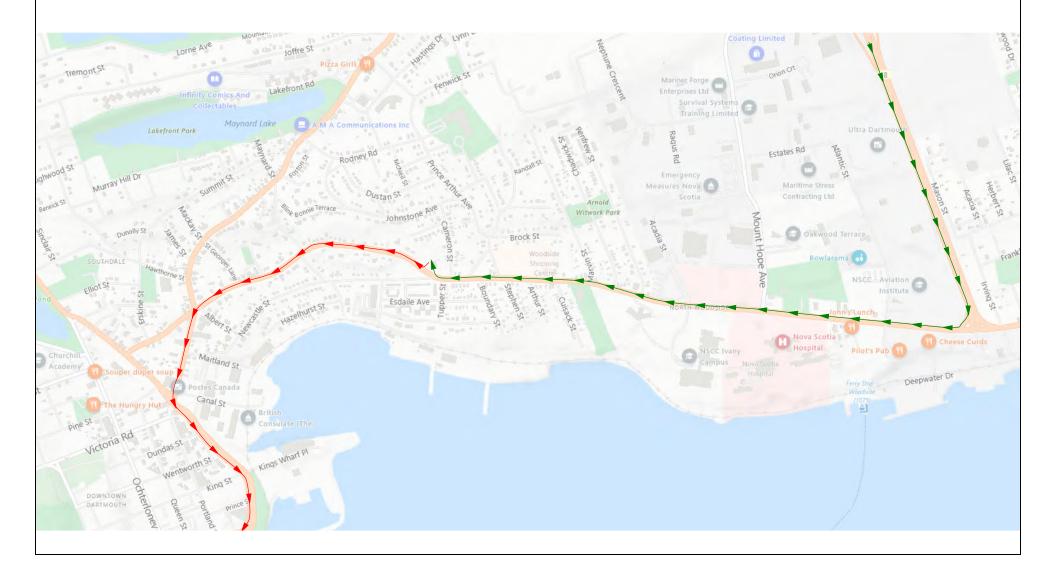
Haul Route Outbound via Pleasant St to Portland St to Alderney Landing to Windmill Rd



# Legend

▼ Haul Route Inbound

**Y** Haul Route Outbound





# Appendix D – Pedestrian Management Plan (PMP)

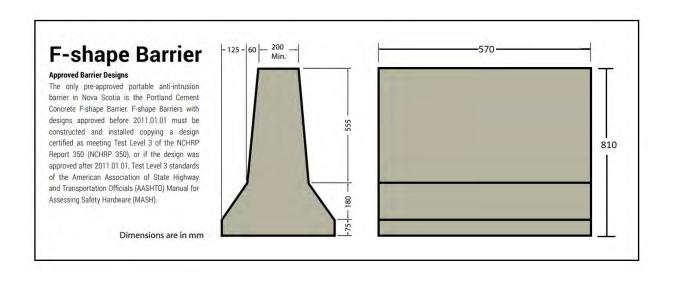
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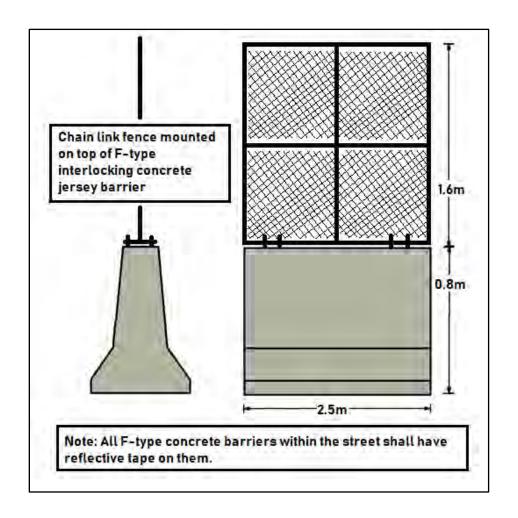
# **Pedestrian Management Plan** Date: 2023-03-27 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 171 Pleasant St Contrator: SDMM Contact: Geoff MacLean, 902-789-6374 Comments: Legend Not to Scale for use with Phase 2 and 3 Encroachment Plans Gate Crosswalk installation must be completed before Encroachment 2 is put into effect Pedestrian Route Perimeter Fencing Sanitary Lateral Storm Lateral Water Lateral Pleasant St/ Route 322 Pleasant St/ Route 322 Newcastle St Esdaile St Esdaile St Parker St Maplehurst Dr Manifest 4 x Sign Harbour Dr

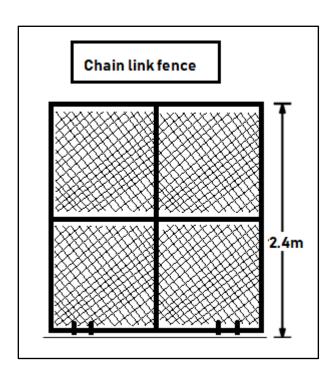


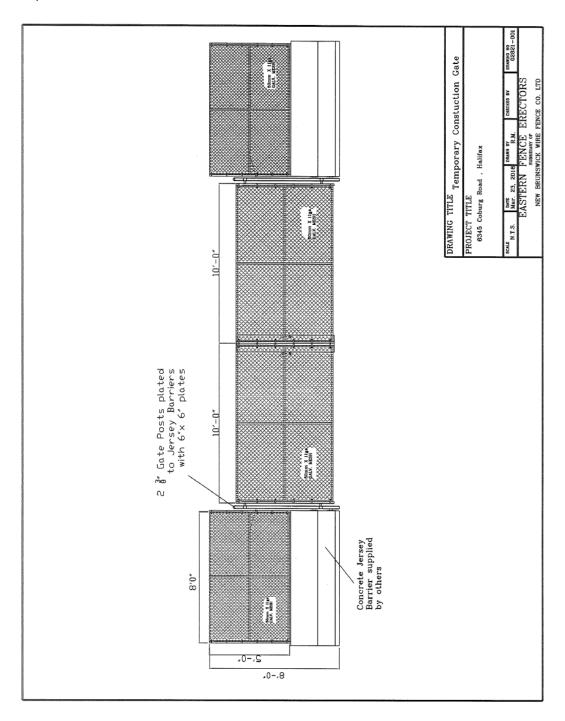
# **Appendix E – Barrier, Fence & Gates Information**

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# Appendix F – Hoarding Information

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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





#### **Technical Data Sheet**

### UltraMesh® Eclipse®

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		-1	2×12	
Total Weight	DIN53352 BS3424 Method5A	270 +/- 20 gsm/m²	7.96 oz/yd²	
Width		Up to 500cm		
Tensile Strength	DIN53352 BS3424	Warp 1250 n/5cm Weft 1100 n/5cm	142.75 x 130.19 lb/in 52.8 x 50.5 lbf	
Tear Strength	DIN53356 BS3424	Warp 235 N Weft 225 N		
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.)

#### ULTRAFLEX

www.u/trefle/78.com updated: 12/2016

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# **Appendix G – Project Information Board**

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May 2023 - July 2024

# PROPOSED MULTI-UNIT BUILDING Pleasant Street Development

8 Storey - 137 Residential Units
Single Residential & 2 Level Townhouses
Mixture of 1-3 Bedroom Units
Barrier Free Units

1 Level Underground Parking

2 Levels of Upper Floor Parking

#### Landowner:

Primo Properties Limited 1625 Grafton Street, Unit 1500, Halifax, NS, B3J 0E8

**24 Hour Emergency Contact:** (902) 471-4349

#### **Contractor:**

Dexter Construction Company Limited 927 Rocky Lake Drive, Bedford, NS, B4A 3Z2

#### **Contact:**

Barry Cole - (902) 835-3381

#### **Traffic Control:**

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

#### **Contact:**

Phil Pruneau - (902) 818-5548

#### **Rodent Control Company:**

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

#### **Contact:**

Main Office - 902-835-2304



# Appendix H – Project Safety Signage

Page | H Job No. 36876

# NO TRESPASSING

# CONSTRUCTION SITE To reduce risk of injury, Hard Hat Safety Shoes MUST be worn on this site.

# RESTRICTED --- AREA ----

# CONSTRUCTION WORK IN PROGRESS



# Appendix I – Project Signage Specifications

Page | I Job No. 36876

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 10days prior to the start of the noted construction activity to
  ensure the passing public has had adequate time to review, adjust their travel patterns, usage
  of streets and or cab be considered 'informed'.

#### Samples







# Appendix J – Sample Traffic Notification Letter

Page | J Job No. 36876



#### **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:

#### **Dexter Construction Company Limited**

927 Rocky Lake Drive, Bedford, NS B4A 3Z2

Phone: (902) 835-3381

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

Yours Truly,

**Barry Cole** 

**Dexter Construction Company Limited** 



## **Appendix K – Vehicular and Pedestrian Hazard Assessment**

Page | K Job No. 36876

## Project Date: Location: VEHICULAR & PEDESTRIAN HAZARD ASSESSMENT

No.	Hazard:	Project Phase:	Vehicular Impacts:	Mitigation Methods:	Pedestrian Impacts:	Mitigation Methods:		
			Vehicles may enter project site and fall down excavation.	Place concrete barriers along travel ways. Concrete barriers and existing curbs to prevent vehicle entry.				
1	Excavation	Excavation	Vehicle weight may surcharge excavation, causing excavation wall failure.	Close sidewalks & driveways adjacent to project site, moving vehicles farther away from excavation.	Pedestrians may enter project site and fall down excavation.	Place concrete barriers/rigid fencing around entire project site.		
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	All Disease	All Dhoos	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.
3	reavy Machinery Operation		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**

Page | L Job No. 36876

# **COMMUNITY CONSULTATION MAP OVERVIEW**

# **Project – Pleasant Street Development**



## **Notification Letter**

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

Primo Properties Limited – Building Construction Information Meeting

Dear Neighbour,

As you may be aware, we are planning an apartment building construction project located on Pleasant Street, (Formerly civic 163 & 171 Pleasant Street), Dartmouth.

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.

Jim Kanellakos

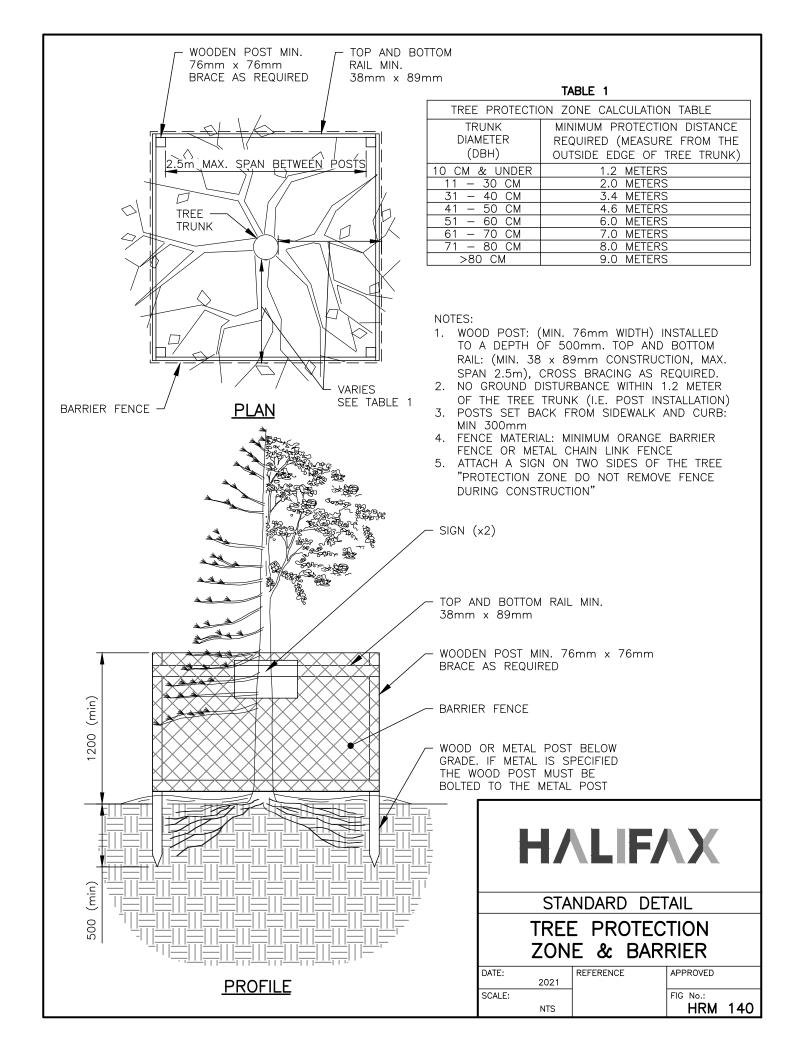
Cell: (902) 471-4349

Email: jim@j2kproperties.ca



# Appendix M – HRM Tree Detail

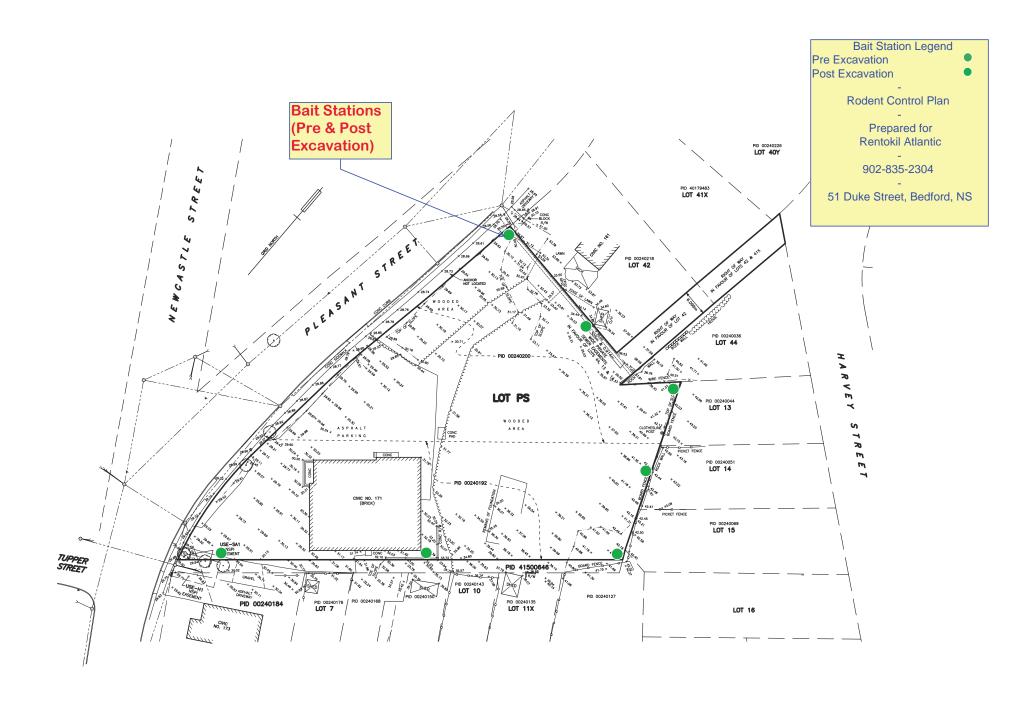
Page | M Job No. 36876





# Appendix N – Rodent Control Plan

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# 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

T-Rex<sup>™</sup> rat trap or Mini-Rex<sup>™</sup> mouse trap

▶ Compatible with Sidekick® Load-N-Lock™ system





More Than Meets The Eye

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

www.belllabs.com

# ALL-WEATHER BLOX TM









# **KILLS RATS, MICE & MEADOW VOLES\***

**Kills Warfarin Resistant Norway Rats** 

KEEP OUT OF REACH OF CHILDREN CAUTION

See back panels for First Aid and additional precautionary statements.

ACTIVE INGREDIENT:

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

 OTHER INGREDIENTS†:
 99.995%

 †Contains Denatonium Benzoate
 TOTAL
 100.000%

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

#### FIRST AID

#### HAVE LABEL WITH YOU WHEN OBTAINING TREATMENT ADVICE

#### IF SWALLOWED:

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

#### IF ON SKIN OR CLOTHING:

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

- 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 K1. If needed, check prothrombin times every 3 days until values return to normal (up to 30 days). In severe cases, blood transfusions may be needed.

#### DIRECTIONS FOR USE

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

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

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

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

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

USE RESTRICTIONS: This product may only be used to control the following rodent pests in and around man-made structures: House mouse (Mus musculus), Norway rat (Rattus norvegicus), Roof rat (Rattus rattus), Cotton mouse (Peromyscus gossypinus), Cotton rat\* (Sigmodon hispidus), Deer mouse (Peromyscus maniculatus), Eastern harvest mouse\* (Reithrodontomys 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.



#### **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% 

#### 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

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 3699 Kinsman Blvd. Madison WI 53704 U.S.A. www.belllabs.com

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

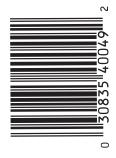
an uninterrupted supply of fresh bait for at least 15 days or until signs of mouse or meadow vole\* activity cease.

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

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.

587CB-9 MADE IN USA Product Code: CB4051 090415/09-15



# DETEX®BLOX with LUMITRACK

SAFETY DATA SHEET

**ACCORDING TO REGULATION: OSHA** Hazard Communication Standard 29 CFR 1910.1200

**DATE OF ISSUE:** January 2016

PREPARED BY:

CAR

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: DETEX® BLOX with LUMITRACK

**EPA Registration Number: NA** 

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

Relevant identified uses: Activity Monitoring - Ready to use Uses advised against: Use only for the purpose described above

#### MANUFACTURER/SUPPLIER:

Bell Laboratories, Inc. 3699 Kinsman Blvd. Madison, WI 53704, USA Email: sds@belllabs.com Phone: 608-241-0202

Medical or Vet Emergency: 877-854-2494 or 952-852-4636 Spill or Transportation Emergency: 800-424-9300 (CHEMTREC)

#### **SECTION 2. HAZARDS IDENTIFICATION**

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

Signal Word: None

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

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

#### **SECTION 4. FIRST AID MEASURES**

Description of first aid measures

**Ingestion:** Non-Toxic **Inhalation:** Not applicable. Eve 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.

Trade Name: Detex Blox with Lumitrack Date Created: January 2016 Supplier: Bell Laboratories, Inc.

Page 1 of 3

#### **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 **Eve protection:** Not required

Skin protection: None. Non-Toxic

Hygiene recommendations: None. Non-Toxic

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance/Color: Tan wax block Odor: Sweet grain-like

**Odor Threshold:** Not applicable, odor not associated with a hazardous material.

Not applicable, is not dispersible with water. pH:

**Melting point:** Not applicable Not applicable **Boiling point:** 

Flash point: Not applicable, does not contain components classified as flammable.

**Evaporation rate:** Not applicable, is a solid. Flammability: Not applicable, is a solid.

Upper/lower flammability or explosive limits: Not applicable, does not contain components classified as flammable or explosive.

**Vapor Pressure:** Not applicable

Vapor Density: Not applicable, is a solid 1.13 g/mL @ 20°C **Relative Density:** Solubility (water): Not water soluble **Solubility (solvents):** Not applicable Partition coefficient: n-octanol/water: Not applicable

**Auto-ignition temperature:** Not applicable, does not contain components classified as flammable.

**Decomposition temperature:** Not applicable

Viscosity: Not applicable, is not a liquid.

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity: Not Applicable

Chemical stability: Not Applicable

Possibility of hazardous reactions: Refer to Hazardous decomposition products **Conditions to avoid:** Avoid extreme temperatures (below 0°C or above 40°C).

**Incompatible materials**: Not Applicable

Hazardous decomposition products: Not Applicable

#### SECTION 11. TOXICOLOGICAL INFORMATION

**Information on toxicological effects** 

**Acute Toxicity** 

LD50, oral (ingestion): Not Toxic LD50, dermal (skin contact): Not Toxic

LC50, inhalation: Not Toxic Skin corrosion/irritation: Not Toxic Serious eye damage/Irritation: Not Toxic. Respiratory or skin sensitization: Not Toxic

Germ cell mutagenicity: Not Toxic

Carcinogenicity: Not Toxic

Trade Name: Detex Blox with Lumitrack Date Created: January 2016 Supplier: Bell Laboratories, Inc.

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Components	NTP	IARC	OSHA
None	NA	NA	NA

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

#### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity Effects:** Not Toxic

**Persistence and degradability:** Not Toxic **Bioaccumulative potential:** Not Toxic

Mobility in Soil: Not Toxic. Other adverse effects: None.

#### SECTION 13. DISPOSAL CONSIDERATIONS

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

#### **SECTION 14. TRANSPORT INFORMATION**

**UN number:** Not regulated

**UN proper shipping name:** Not regulated **Transport hazard class(es):** Not regulated

Packing group: Not regulated Environmental Hazards

**DOT Road/Rail:** Not considered hazardous for transportation via road/rail. **DOT Maritime:** Not considered hazardous for transportation by vessel.

**DOT Air:** Not considered hazardous for transportation by air.

Freight Classification: LTL Class 60

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

Special precautions for user: None

#### SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture: Not applicable

Signal Word: None

Precautionary Statements: None

**Potential Health Effects:** 

**Eye Contact:** May cause irritation **Skin Contact:** Non-irritating to the skin **Ingestion:** Not harmful if swallowed

TSCA: All components are listed on the TSCA Inventory or are not subject to TSCA requirements

CERCLA/SARA 313: Not Toxic CERCLA/SARA 302: Not Toxic

#### SECTION 16. OTHER INFORMATION

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

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

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

Trade Name: Detex Blox with Lumitrack
Supplier: Bell Laboratories, Inc.

Date Created: January 2016
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# Appendix O – CMP's TCP & PMP Inspection Records

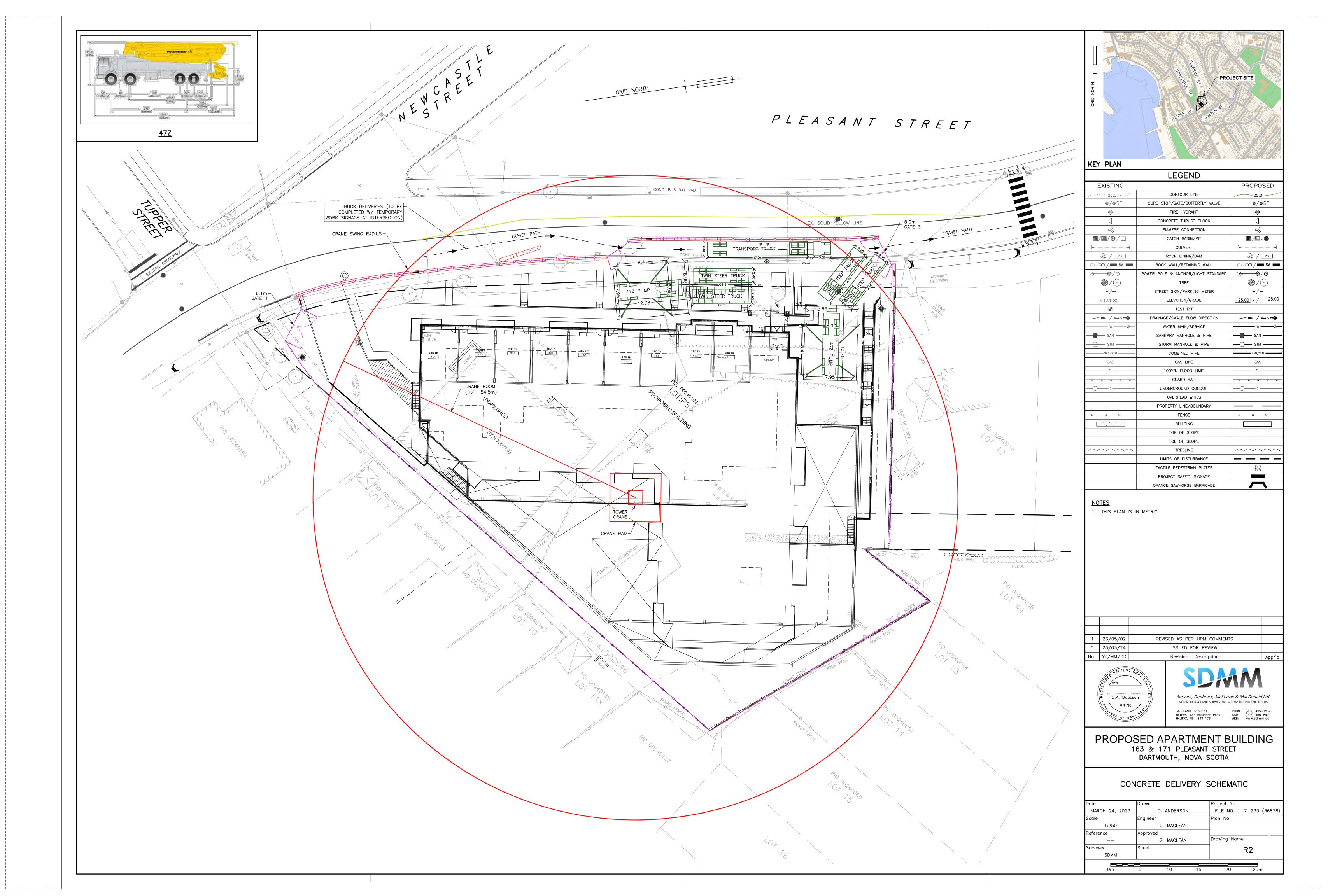
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Project:		Locati	on:			Phase:	Date:	Inspector:
						AGEMENT PLAN - INSPECT	ION CHECKLIST	
CMP Element		ıp per l		<u> </u>		Action Required	Action Completed	Comments
	Yes	No	N/A	Good	Bad	·	·	
	_							
	-							



# **Appendix P – Concrete Delivery Schematic**

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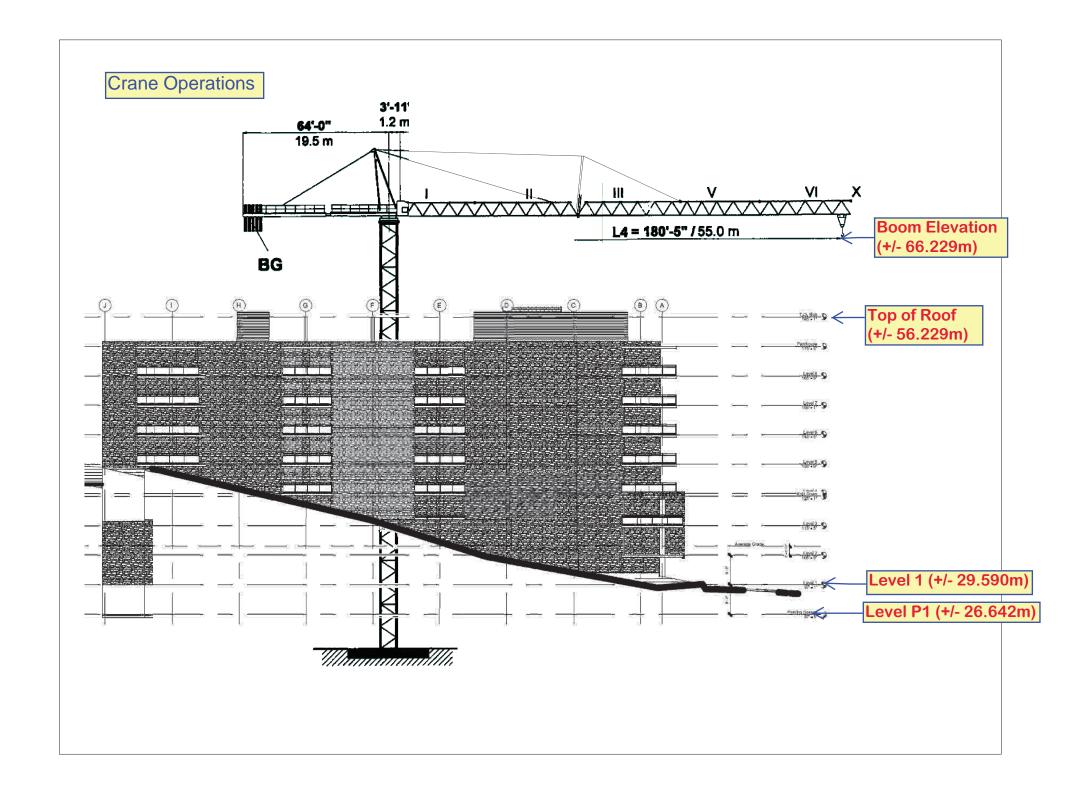




## **Appendix Q – Crane Information**

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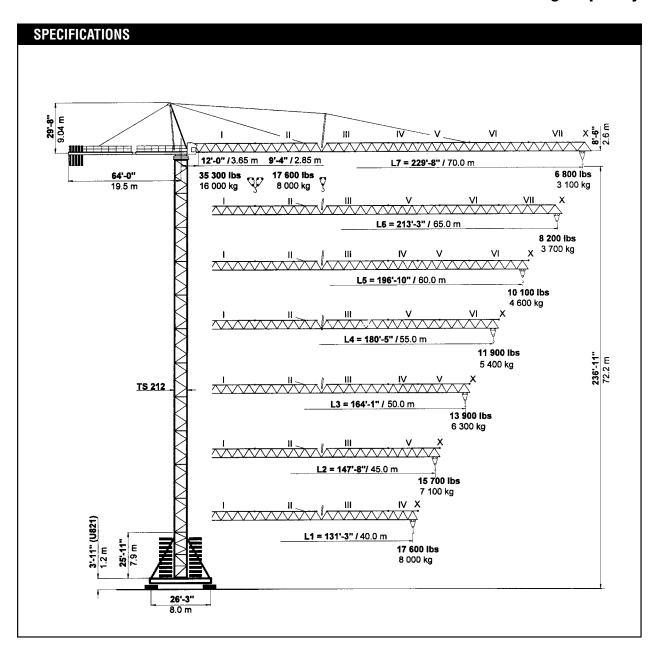
Tel: 1 (888) 337-BIGGE or (510) 638-8100

Web: www.biggetowercrane.com



# PEINER SK 315

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



simple, available and cost effective™

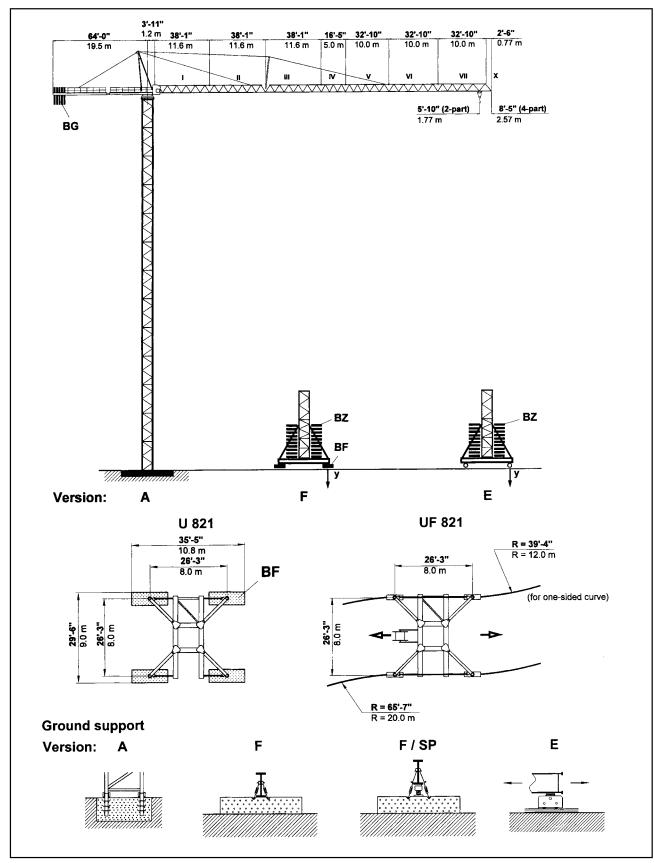
Machines shown may have optional equipment.



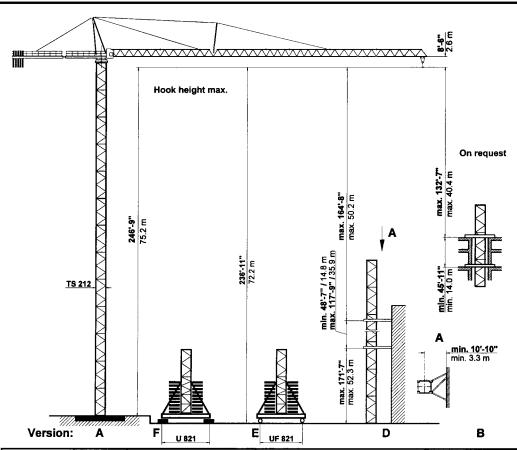


BİGGE

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	нн	Tower	НН	BZ + BF	in service	y out of	BZ	in service	/ out of		
TS 212.1	ft m	TSV 212 TS 212.1	ft m	kips / t	kips / kN	service kips / kN	kips / t	kips / kN	service kips / kN		
13 x TS 212.1	<b>246'-9"*</b> 75.2*	13 212.1	'''	кірэ/ с	RIPS / RIV	KIPS / KIV	KIPS / L	Kips / KiV	KIPS / KIN		
12 x TS 212.1	<b>227'-4"*</b>	1 x TSV 212	<b>236'-11''*</b>	<b>212.0</b>	<b>204</b>	279	<b>198.0</b>	<b>212</b>	<b>282</b>		
	69.3*	11 x TS 212.1	72.2*	96	909	1243	90	942	1253		
11 x TS 212.1	<b>208'-0"*</b>	1 x TSV 212	<b>217'-6</b> "*	<b>168.0</b>	186	240	<b>154.0</b>	1 <b>92</b>	<b>242</b>		
	63.4*	10 x TS 212.1	66.3*	76	826	1066	70	856	1075		
10 x TS 212.1	<b>188'-8"*</b>	1 x TSV 212	198'-2"	146.0	1 <b>73</b>	<b>203</b>	<b>132.0</b>	<b>179</b>	<b>204</b>		
	57.5*	9 x TS 212.1	60.4	66	770	901	60	797	909		
9 x TS 212.1	<b>169'4"</b>	1 x TSV 212	178'-10"	124.0	<b>161</b>	<b>169</b>	<b>88.0</b>	161	169		
	51.6	8 x TS 212.1	54.5	56	715	751	40	715	754		
8 x TS 212.1	149'-11"	1 x TSV 212	<b>159'-5"</b>	101.0	149	145	<b>88.0</b>	1 <b>54</b>	170		
	45.7	7 x TS 212.1	48.6	46	661	645	40	683	654		
7 x TS 212.1	130'-7"	1 x TSV 212	1 <b>40'-1"</b>	101.0	142	<b>128</b>	<b>66.0</b>	141	124		
	39.8	6 x TS 212.1	42.7	46	633	569	30	629	553		
6 x TS 212.1	111'-3"	1 x TSV 212	<b>120'-9''</b>	101.0	<b>136</b>	112	<b>66.0</b>	135	108		
	33.9	5 x TS 212.1	36.8	46	607	499	30	600	482		
5 x TS 212.1	<b>91'-10"</b>	1 x TSV 212	<b>101'-5"</b>	101.0	131	<b>98</b>	<b>66.0</b>	1 <b>29</b>	<b>94</b>		
	28.0	4 x TS 212.1	30.9	46	582	435	30	573	418		
4 x TS 212.1	<b>72'-6"</b>	1 x TSV 212	<b>82'-0"</b>	101.0	<b>126</b>	<b>85</b>	<b>66.0</b>	123	<b>81</b>		
	22.1	3 x TS 212.1	25.0	46	559	376	30	548	359		
3 x TS 212.1	<b>53'-2"</b>	1 x TSV 212	<b>62'-8"</b>	101.0	<b>120</b>	<b>80</b>	<b>66.0</b>	118	<b>75</b>		
	16.2	2 x TS 212.1	19.1	46	536	356	30	523	335		
2 x TS 212.1	<b>33'-9"</b>	1 x TSV 212	<b>43'-4"</b>	101.0	<b>116</b>	<b>80</b>	<b>66.0</b>	112	<b>75</b>		
	10.3	1 x TS 212.1	13.2	46	515	356	30	500	335		
Founda	tion			ÿ	Stationary ba	se	•	Travelling bas	e		
25'- <b>7" x 25</b> '-7 7.8 x 7.8x					U 821			UF 821	600 482  129 94  573 418  123 81  548 359  118 75  523 335  112 75  500 335  avelling base  UF 821  Bogle		
	Anchor stools			BF 4 x 8.82 l 4 x 4.0		<b>BZ</b> ck 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 = 2

TSV 212 = 25'-11" / 7.9 m

TSK 212 = 6'-7" / 2.0 m

### PEINER SK 315 Radius and Capacity

	Jib	Max. capacity		ius – fi acity –		nt	2-Pa	rt Line	n n	nax. 1	-	0 lbs				•			
	<b>#</b> E	max. <b>17,600 lbs</b> 8.0 t	<b>75'-6"</b> 23	<b>82'-0''</b> 25	<b>985.</b>	<b>114'-10"</b> 35	<b>131'-3</b> " 40	<b>141'-1"</b> 43	147'-8" C	157'-6" 94 48	164'-1" 50	1 <b>73'-11"</b> 53	<b>180'-5</b> " 55	<b>190'-3"</b> 58	<b>196'-10</b> " 60	<b>206'-8"</b> 63	<b>213'-3"</b> 65	<b>223"-1"</b> 68	<b>229'-8"</b> 70
L7	229'-8"	9'-4" - 96'-9"	17600	17600	17400	14800	12800	11900	11200	10600	10100	9500	9000	8600	8200	7700	7500	7100	6800
	70.0	2.85 - 29.5 m	8.0	8.0	7.9	6.7	5.8	5.4	5.1	4.8	4.6	4.3	4.1	3.9	3.7	3.5	3.4	3.2	3.1
L6	213'-3"	9'-4" - 105'-0"	17600	17600	17600	16100	13900	13000	12300	11500	11000	10400	9900	9300	8800	8600	8200		
	65.0	2.85 - 32.0 m	8.0	8.0	8.0	7.3	6.3	5.9	5.6	5.2	5.0	4.7	4.5	4.2	4.0	3.9	3.7		
L5		9'-4" -117'-9"		17600		l	15700		13900				11200	10600	10100				
L	60.0	2.85 - 35.9 m	8.0	8.0	8.0	8.0	7.1	6.6	6.3	5.9	5.6	5.3	5.1	4.8	4.6				
L4		9'-4" - 124'-8"		17600	I	17600	16800	15400	14800		13200		11900						
_		2.85 - 38.0 m	8.0	8.0	8.0	8.0	7.6	7:0	6.7	6.3	6.0	5.6	5.4						
L3		9'-4" - 130'-11"		ſ	17600	17600	17600	16300	15400	14600	13900								
		2.85 - 39.9 m	8.0	8.0	8.0	8.0	8.0	7.4	7.0	6.6	6.3		ļ <u> </u>						
L2		9'-4" - 131'-11"			17600	17600	17600	16500	15700										
L.		2.85 - 40.2 m	8.0	8.0	8.0	8.0	8.0	7.5	7.1										
L1	-	9'-4" - 131'-3"			17600	17600	17600												
<u> </u>	40.0	2.85 - 40.0 m	8.0	8.0	8.0	8.0	8.0					<u> </u>							
ı	ft	35,300 lbs				4	l-Part I	Line 💎	n Tif	nax. 3	5,300	) lbs			R	adius -	2'-7"	(-0.8)	m)
l	m	16.0 t						`	Ϋ́m	nax. 10	6.0 t							,	,
L7	227'-0"	12'-0" - 48'-7"	21800	19600	16100	13200	11200	10400	9700	9000	8600	7900	7500	7100	6600	6200	6000	5500	5300
	69.2	3.65 - 14.8 m	9.9	8.9	7.3	6.0	5.1	4.7	4.4	4.1	3.9	3.6	3.4	3.2	3.0	2.8	2.7	2.5	2.4
L6	210'-8"	12'-0" - 52'-2"	23800	21600	17400	14600	12600	11500	10800	9900	9500	8800	8400	7700	7500	6800	6600		
	64.2	3.65 - 15.9 m	10.8	9.8	7.9	6.6	5.7	5.2	4.9	4.5	4.3	4.0	3.8	3.5	3.4	3.1	3.0		
L5	194'-3"	12'-0" - 57'-9"	26900	24500	19800	16800	14300	13000	12300	11500	10800	10100	9700	9000	8600				
	59.2	3.65 - 17.6 m	12.2	11.1	9.0	7.6	6.5	5.9	5.6	5.2	4.9	4.6	4.4	4.1	3.9				
L4	177'-10"	12'-0" - 61'-0"	28700	26000	21200	17900	15200	14100	13200	12300	11700	10800	10400						
<u> </u>		3.65 - 18.6 m	13.0	11.8	9.6	8.1	6.9	6.4	6.0	5.6	5.3	4.9	4.7						
L3		12'-0" - 63'-8"			22300	18700	16100	14800		12800	12300								
L		3.65 - 19.4 m	13.7	12.4	10.1	8.5	7.3	6.7	6.4	5.8	5.6								
L2		12'-0" - 64'-0"	30400		22500	19000	16300		14100										
		3.65 - 19.5 m	13.8	12.5	10.2	8.6	7.4	6.8	6.4										
L1			31700	28700	23600	19800	17000												
	39.2	3.65 - 20.2 m	14.4	13.0	10.7	9.0	7.7												

#### **Speeds**

FU 8-160/4 v = 0 -> ~290 fpm (88 m / min.)							<b>10.2 HP</b> 7.5 kW		
SR 10-190/3	<u></u> <b>←</b> <u> </u>	v = (	~96	fpm (30 m / ı	min.)			2 x 16.3 HP 2 x 12.0 kW	
K WB 120/4	<b>♂</b>	v = (	v = 0 0.9 rpm (min <sup>-1</sup> )				2 x 11.4 HP 2 x 8.4 kW		
	₹ н	C max. = 705	' (215 m)	6 - layer	s			480 V / 60 Hz /	3 ph
		2-Part Line	→ 444 fpm 134 m/min	<b>5 500 lbs</b> 2 500 kg	4-Part Line	<b>→ 222 fpm</b> 67 m/min	<b>11 000 lbs</b> 5 000 kg		~140
Type SR WB 66-	台」	<b>→</b>	<b>→ 276 fpm</b> 84 m/min	<b>9 300 lbs</b> 4 200 kg		→ 138 fpm 42 m/min	<b>18 600 lbs</b> 8 400 kg	SR 10-190/3	<b>HP</b> ∼105
80/4F	**	~	<b>→ 180 fpm</b> 54 m/min	<b>13 900 lbs</b> 6 300 kg		<b>→</b> 90 fpm 27 m/min	<b>27 800 lbs</b> 12 600 kg		kW
[108 HP] [79 kW]		<b>_</b>	→ 108 fpm 34 m/min	<b>17 600 lbs</b> 8 000 kg		→ 54 fpm 17 m/min	<b>35 300 lbs</b> 16 000 kg		170 kVA

### Counterweight

Jib		L 1	L 2	L 3	L4	L 5	L6	L 7
	BG	30 000 lbs 13 600 kg	32 200 lbs 14 600 kg	36 600 lbs 16 600 kg	<b>39 150 lbs</b> 17 750 kg	<b>43 550 lbs</b> 19 750 kg	<b>41 350 lbs</b> 18 750 kg	<b>45 750 lbs</b> 20 750 kg
Counterweight	[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		Dime	nsions (f	t / m)	Weight	Volume
	200.3.12.1011					_	ft³/m³
1	Jib Section III		39.01 11.94	<b>4.99</b> 1.52	7.09 2.16	4 200 1.92	1 386 39.2
2	Jib Section I Section IV Section V Section VI Section VII Jib tip X		 39.01 11.89 38.65 11.78 19.19 5.85 35.34 10.77 36.03 10.98 33.33 10.16 3.12 0.95	4.99 1.52 4.99 1.52 4.99 1.52 4.99 1.52 4.99 1.52 4.99 1.52 5.02	5.84 1.78 6.17 1.88 5.41 1.65 5.45 1.66 5.48 1.67 5.32 1.62 1.64 0.50	3 790 1.72 4 320 1.96 1 760 0.80 3 090 1.40 2 470 1.12 1 570 0.71 310 0.14	1 137 32.2 1 190 33.7 519 14.7 961 27.2 985 27.9 853 25.0 25 0.7
3	Turntable with slewing ring support		<b>36.35</b> 11.08 <b>31.99</b> 9.75	7.64 2.33 7.64 2.33	7.81 2.38 7.81 2.38	25 350 11.50 24 030 10.90	2 169 61.4 1 911 54.1
	Cabin with support and railing		<b>10.17</b> 3.10	<b>4.92</b> 1.50	<b>7.25</b> 2.21	<b>1 320</b> 0.60	<b>364</b> 10.3
4	Counter jib with hoist winch		<b>38.13</b> 11.62	<b>5.91</b> 1.80	<b>6.00</b> 1.83	<b>14 550</b> 6.60	<b>1 353</b> 38.3
	Hoist winch	66 WB	<b>7.51</b> 2.29	<b>5.45</b> 1.66	<b>3.28</b> 1.00	<b>5 400</b> 2.45	1 <b>34</b> 8.4
5	Counterweight	ВG	3.94 1.20 3.94 1.20	1.64 0.50 1.64 0.50	9.32 2.84 12.11 3.69	6 950 3.15 9 150 4.15	60 1.4 78 1.7
		TS 212.1	<b>19.52</b> 5.95	<b>7.78</b> 2.37	<b>8.01</b> 2.45	9 130 4.14	<b>1 216</b> 34.4
6	Tower section	TSV 212 with struts	<b>31.17</b> 9.50	<b>9.84</b> 3.00	10.00 3.05	<b>20 330</b> 9.22	<b>3 067</b> 86.9
		TSK 212	<b>6.63</b> 2.02	<b>7.87</b> 2.40	<b>9.84</b> 3.00	<b>6 170</b> 2.80	513 14.5
7	Travelling base, folded	UF 821	<b>41.01</b> 12.5	<b>9.74</b> 2.97	<b>7.05</b> 2.15	<b>35 050</b> 15.90	<b>2 816</b> 79.8
8	Stationary base, folded	U 821	 <b>34.55</b> 10.53	<b>9.06</b> 2.76	<b>2.79</b> 0.85	<b>17 130</b> 7.77	<b>873</b> 24.7
9	Central ballast block	BZ	11.48 3.50	<b>4.92</b> 1.50	<b>2.20</b> 0.67	<b>11 020</b> 5.00	<b>124</b> 3.5
10	Foundation pad	BF	<b>9.19</b> 2.80	<b>3.28</b> 1.00	<b>1.87</b> 0.57	<b>8 820</b> 4.00	<b>57</b> 1.6
11	Accessories					<b>4 800</b> 2.17	

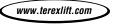
For more information, product demonstration, or details on lease and rental plans, please contact your local Terex Towers Distributor.

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



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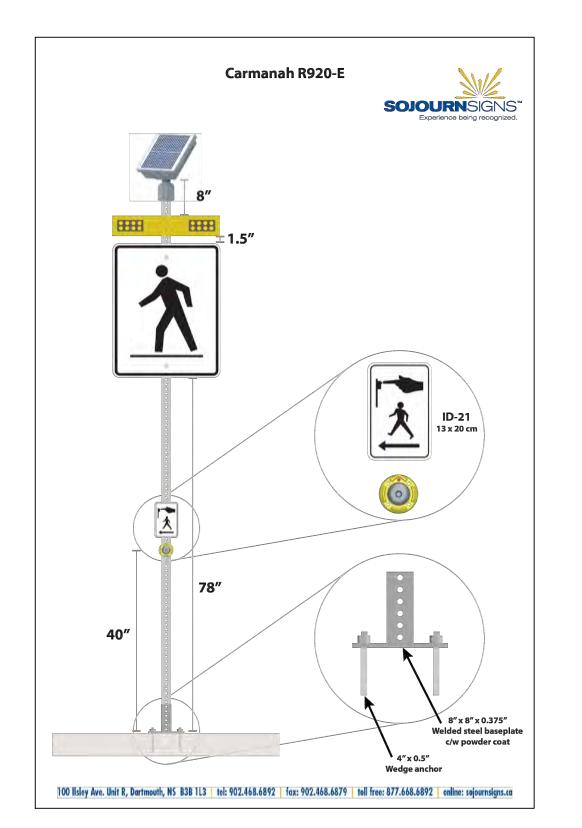




## Appendix R – Line Painting Plan

Page | R Job No. 36876

	PAVEMENT MA	ARKINGS		T				
IDENTIFICATION	TYPE	WIDTH	COLOUR	QUANTITY				
1	STOP BAR	450 mm	WHITE	N/A				
2	CROSSWALK LINE	200 mm x 2	WHITE	N/A				
3	SINGLE CENTRELINE	100 mm NOT TO BE PAINTED THROUGH INTERSECTIONS	YELLOW	96.65m				
4	DOUBLE CENTRELINE	100 mm x 2 NOT TO BE PAINTED THROUGH INTERSECTIONS	YELLOW	N/A				
5	SOLID & WITH BROKEN 3x6 LINE	100 mm	YELLOW	N/A				
6	LANE & BIKE LINES	100 mm	WHITE	N/A				
7	BROKEN LINE 3x3	100 mm	WHITE	N/A				
8	BROKEN LINE 3x6	100 mm	WHITE	N/A				
9	BIKE LANE DASHED LINE 1.5x1.5	100 mm	WHITE	N/A				
10	HATCH	100 mm LANE LINES WITH 600 mm HATCH LINES, 6.0 m SPACING	YELLOW	N/A				
1)	HATCH	100 mm LANE LINES WITH 600 mm HATCH LINES, 6.0 m SPACING	WHITE	N/A				
12	ARROW	3/4 TAC SIZE	WHITE	N/A				
13	RESERVED LANE SYMBOL	3/4 TAC SIZE	WHITE	N/A				
14)	BIKE SYMBOL		WHITE	N/A				
15	SHARED USE LANE SYMBOL		WHITE	N/A				
16	ZERBA CROSSWALK	600 mm	WHITE	10.20m				



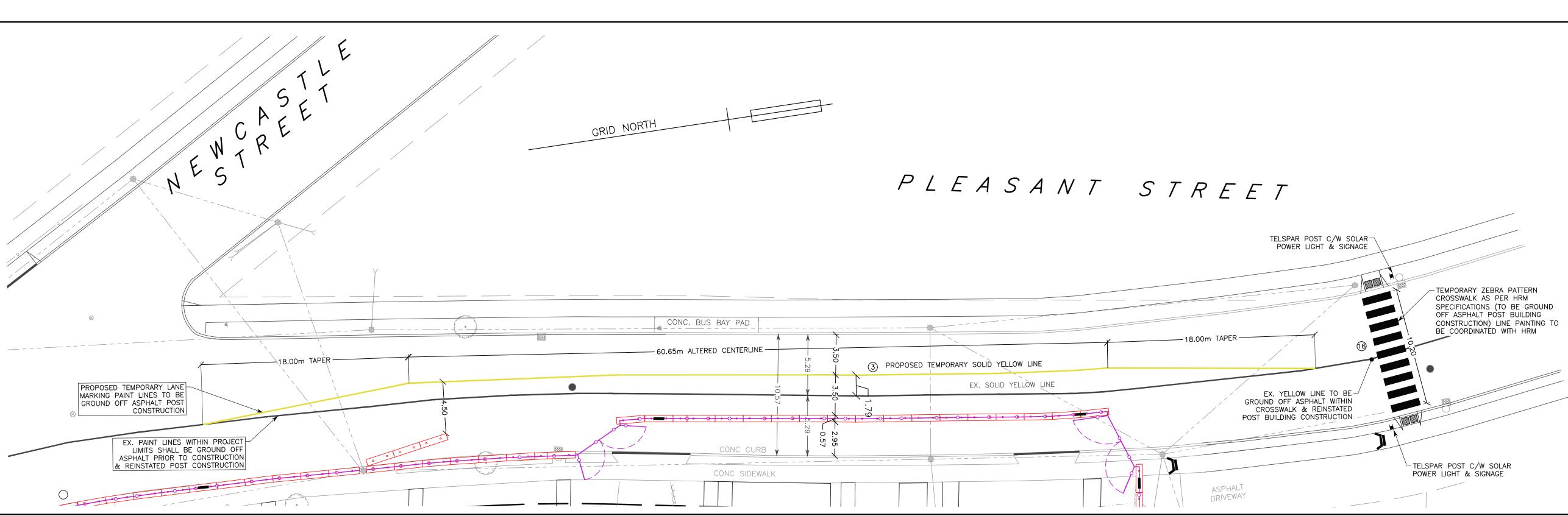
DEVELOPER AND CONTRACTOR TO NOTE REQUIRED WORK FLOW FOR NEW CROSSWALK INSTALLATION WITH HRM.

1. URBAN SIGN POST TO BE INSTALLED BY CONTRACTOR IN CONSULTATION WITH HRM ENGINEERING STAFF.

- 2. HRM SIGN SHOP TO INSTALL AND BAG NEW CROSSWALK
- SIGNAGE; HRM ENGINEERING TO COORDINATE.

  3. CONTRACTOR TO GRIND OFF EXISTING YELLOW CENTERLINE, INSTALL NEW ZEBRA PAINT LINES AND REMOVE BAGS FROM CROSSWALK SIGNAGE IN CONSULTATION WITH HRM ENGINEERING

4. CONTRACTOR TO INSTALL RRFP ON BOTH URBAN SIGN POSTS IN CONSULTATION WITH HRM ENGINEERING STAFF.





LEGEND

K	E)	P	LA	N

EXISTING		PROPOSED
25.0	CONTOUR LINE	25.0
⊗/⊗BF	CURB STOP/GATE/BUTTERFLY VALVE	⊗/⊗BF
<b>©</b>	FIRE HYDRANT	•
(	CONCRETE THRUST BLOCK	4
≼	SIAMESE CONNECTION	≺
	CATCH BASIN/PIT	<b>  </b> /  /  /  /  /  /  /  /  /  /  /  /  /
) <del>-</del> (	CULVERT	) <del>-</del> (
& / RD	ROCK LINING/DAM	& / RD
CCCC / ■ RW ■	ROCK WALL/RETAINING WALL	CDCCO / ■ RW ■
> <del>&gt;</del>	POWER POLE & ANCHOR/LIGHT STANDARD	<b>&gt;&gt;</b>
<b>@</b> /①	TREE	<b>@</b> /①
▼/•	STREET SIGN/PARKING METER	▼/•
× 131.82	ELEVATION/GRADE	125.00 × / + 125.00
8	TEST PIT	
~ / ~S →	DRAINAGE/SWALE FLOW DIRECTION	~~/~S→
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
0 0 0	GUARD RAIL	
c	UNDERGROUND CONDUIT	c
	OVERHEAD WIRES	
	PROPERTY LINE/BOUNDARY	
	FENCE	- <del></del>
	BUILDING	
	TOP OF SLOPE	
	TOE OF SLOPE	
	TREELINE	
	LIMITS OF DISTURBANCE	
	TACTILE PEDESTRIAN PLATES	
	PROJECT SAFETY SIGNAGE	
	11100201 3/11211 3/011/102	

## 1. 11110

1. THIS PLAN IS IN METRIC.

APPROVED BY		
TRAFFIC AUTHORITY	DATE	
ALL OTHER ASPECTS OF	A ALTERED CENTRELINE AND THIS TEMPORARY TRAFFIC C CONTROL MANUAL, LATEST	ONTROL PLAN MUST

	1	23/05/02	REVISED AS PER HRM COMMENTS	
	0	23/03/24	ISSUED FOR REVIEW	
	No.	YY/MM/DD	Revision Description	Appr'd
_				





# PROPOSED APARTMENT BUILDING 163 & 171 PLEASANT STREET DARTMOUTH, NOVA SCOTIA

## LINE PAINTING SCHEMATIC

Date	Drawn	Project No.
MARCH 24, 2023	D. ANDERSON	FILE NO. 1-7-233 (36876)
Scale	Engineer	Plan No.
1:200	G. MACLEAN	
Reference	Approved	
	G. MACLEAN	Drawing Name
Surveyed	Sheet	
SDMM		
0m	5 10	15 20m