# Robie + Cunard + Compton Development

Excavation & Building Construction

Prepared by Geoff MacLean, P.Eng.

Job No. 37413

# CONSTRUCTION MANAGEMENT PLAN

1	JUL 2023	REVISED AS PER HRM COMMENTS
0	FEB 2023	ISSUED FOR REVIEW
REVISION #	DATE	DESCRIPTION





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# **Revisions Summary**

Revision 1 – Sections; 1.1, 2.1, 2.2, 2.3, 4.1, 4.5, 4.6, 5, 5.1, 6, 7.7 & 8.2; Appendices A, B, D, G, P & Q



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### Prepared by

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In consultation with the developer, contractor,

traffic control company and HRM.

# **SDMM**

# **Section 1: Introduction**

### **1.1: Project Description and Objectives**

The developer is planning to construct an apartment building within their lands bound by Robie Street, Compton Avenue and Cunard Street in Halifax. In preparation for this development, the existing buildings at civic 2162-2180 Robie Street, 6014-6020 Cunard Street and 6025 Compton Avenue were previously demolished and the lots were consolidation to form one parcel. The planned development will house 112 residential units within the 10-storey building, complete with ground floor commercial space and 2 levels of underground parking accessed from Compton Avenue. This CMP has been prepared to address excavation, services and building construction.

Where the new residential building is planned to have 2 level of underground parking, deep excavations (+/- 20ft) requiring shoring fronting the HRM Right of Way (ROW) are required for the project. The building setback is planned to be near 1.5m (5ft) from the ROW, however for public safety regarding excavation limits and construction activities the project compound is planned in three phases to limit the public's proximity to the site. Initially, with phase 1, HRM ROW encroachments are not proposed with the site fencing positioned at the street line. However, with phase 2 the public will be further separated from the project by limiting adjacent sidewalk access. Initially only the sidewalks fronting Cunard and Compton will be closed for shoring install and site excavation; these sidewalks will be closed with detours proposed complete with temporary marked crosswalk at the intersection of Clifton Street, which includes incorporate the parking lane on Compton Avenue providing a truck layby for the remainder of construction activities. Only during street wall shoring installation along Robie Street will this sidewalk be and temporarily closing with the existing bus stop closed fronting the project on Robie Street. After the shoring has been installed the final (phase 3) encroachment setup will be established with a row of fencing installed along the Robie Street property line, reopening the Robie Street sidewalk prior to building construction advancing above ground level; this shoring will incorporate the bus stop and sidewalk to the public. Walkthrough scaffold with overhead protection will be installed along the Robie Street sidewalk prior to building construction advancing above ground level; this shoring will incorporate the bus stop and sidewalk fronting the project site on Robie Street.

Only during service work do we anticipate short term temporary lane closures on Robie, Cunard and Compton. It is anticipated that the crane assembly will reside within the encroachment and on private property while disassembly may require a temporary street closure of Compton Avenue.

The project borders residential properties along its western property line with commercial properties opposite Cunard Street, residential opposite Compton Avenue, and the Halifax Commons opposite Robie Street. All neighbouring properties will remain undisturbed throughout the project unless permission are obtained.

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 landowner, contractor, and traffic control company, have prepared this Construction Management Plan (CMP) following HRM's CMP (2020) guidelines and administrative order (2018-005-ADM) in an effort to reduce potential negative impacts on the surrounding community, due to construction activities for this project.

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



### **1.2: Project Contact Information**

The project team for the proposed development consists of:

Role	Name	Contact	Address	Phone
Developer	Commons View Holdings Limited	Farhang Fotovat	1181 Larry Uteck Blvd, Suite 201 Bedford, NS B4B 0S9	(902) 830-8815 24 Hour Emergency
				Contact
Site Contractor	Dexter Construction	Nick Wilson	Rocky Lake Drive	(902) 209-2902
			Bedford, NS	
Traffic Control	Frontline Traffic Services	Phil Pruneau	6 Belmont Avenue, P.O. Box 89	(902) 818-5548
Company			Eastern Passage, NS B3G 1M7	
Rodent Control	Riteway Pest Control	Main Office	2489 St Margaret's Bay Rd,	(902) 440-0592
Company			Timberlea, NS, B3T 1H1	

# 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	Jun 15, 2023	-	Aug 15, 2023	3 months
Building Demolition	n/a	-	n/a	-
Site Excavation	Jul 1, 2023	-	Nov 30, 2023	5 months
Substructure	Dec 1, 2023	-	Mar 31, 2024	4 Months
Superstructure	Mar Dec 1, 2024	-	Aug 31, 2025	18 Months
Service Abandonments	Jul 8, 2023	-	Jul 30, 2023	4 weekends
Service installs	Aug 12, 2023	-	Aug 27, 2023	3 weekends
HRM Right of Way Flat Works	Sep 15, 2024	-	Oct 15, 2024	1 month
Site Flat Works	Oct 1, 2024	-	Oct 31, 2024	1 month

### 2.2: Key Dates

٠	Install I	Phase 1 fencing along property lines	March 1, 2023
٠	Install I	Phase 2a encroachment	July 15 <del>,</del> 2023
	0	Sidewalk closure (Cunard Street & Compton Avenue)	
	0	Parking Lane (Compton Avenue)	
٠	Install I	Phase 2b encroachment	August 15, 2023
	0	Temporary sidewalk closure (Robie Street)	
٠	Install I	Phase 3 Encroachment	October 1, 2023
	0	Sidewalk closure (Cunard Street & Compton Avenue)	
	0	Parking lane closure (Compton Avenue)	
٠	Finish e	encroachment	August 31, 2025
٠	Duratio	on of encroachment	25 months
٠	Tempo	rary lane/road closures:	
	0	Cunard Street service abandonments	Jul 8 – Jul 9, 2023
	0	Robie Street service abandonments	Jul 15 – Jul 23, 2023
	0	Compton Avenue service abandonments	Jul 29 – Jul 30, 2023
	0	Compton Avenue sewer service installs	Aug 12 – Aug 20, 2023
	0	Compton Avenue Water service install	Aug 26 – Aug 27, 2023



o Compton Avenue Crane removal

October 2024

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.

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

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

# Section 3 – Relevant Regulations & Guidelines

### 3.1: Occupational Health & Safety Regulations

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

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

### 3.2: Municipal Regulations & Guidelines

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

- a) HRM Design Guidelines;
- b) HRM Standard Details;
- c) S-300 Streets;
- d) E-200 Encroachments;
- e) B-201 Building;
- f) N-200 Noise;
- g) T-600 Trees;
- h) S-900 Controlled Access Streets;
- i) T-400 Truck Routes;
- j) W-101 Discharge into Public Sewers;



- k) B-600 Blasting;
- 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 series of Traffic Control Plans (TCP) have been prepared by the traffic control company and are provided in the Appendix.

We are proposing a street encroachment that will remove parking and narrow travel lanes fronting the project site to accommodate a truck layby on Compton Avenue. Throughout all phases of construction two-way vehicular traffic will be maintained on all adjacent streets. Compton Avenue will be reduced to two 3.05m travel lanes. Only during building service work do we anticipate short term temporary lane closures being required. It is anticipated that the tower crane will be assembled from within the encroachment area on Compton Avenue from private property while disassembly may require a temporary street closure.

#### 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 private property and Compton Avenue encroachment. Refer to appendix for concrete delivery schematic.

#### 4.3: Vehicular Traffic Notifications

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

#### **4.4: Emergency Vehicles**

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

#### 4.5: Parking

Un-metered parking in front of the project will be closed on both sides of Compton Avenue with the phase 2 and 3 encroachments. 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

Bus service travels along Robie and Cunard Streets. The existing Robie Street bus stop directly in front of the project will be temporally closed during phase 2b construction however open during phase 1, 2a & 3. Bus service should not be affected by this project.

#### 4.7: Hazard Assessment

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

# **Section 5: Pedestrian Management**

A Pedestrian Management Plan (PMP) has been prepared by the traffic control company and is provided in the appendix.

Throughout phases 2 and 3, the project will close the sidewalk in front of the development on Cunard and Compton while providing a temporary marked crossed intersecting Clifton Street to allow access to the opposite side of Cunard Street. Only during phase 2b will the Robie Street sidewalk be temporary closed to permit the installation of the street shoring wall, this will also temporarily close the bus stop fronting the project along Robie Street. Both will be reopened with phase 3. Covered walkthrough scaffolding with overhead protection will be provided along the Robie Street's sidewalk and bus stop once the building gets above street level. Pedestrians will be encouraged to use the opposite side of the Cunard and Compton for access while Robie Street will be maintained.

#### **5.1: Pedestrian Protection**

Pedestrians will be protected by physically distancing them from the project. A combination of chain link fencing and F-type concrete barriers with chain link fencing mounted above will delineate the encroachments. 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.

#### 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 route 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 phase 2 and 3, the project will incorporate public sidewalk on adjacent streets and portion of the street lane on Compton directly in front of the project. The Robie Street sidewalk will be temporarily closed with phase 2b while the shoring wall is installed and reopened to the public. These closures will redirect pedestrian traffic to the temporary crosswalk intersecting Clifton Street and will close un-metered on street parking directly in front of the project site on both sides of Compton Avenue.

These encroachments are to keep the public away from the excavation zone of influence as well as provide additional room for site workers and deliveries. These encroachments are planned to be delineated by a combination of chain link fencing and interlocking F-type concrete barriers complete and chain link fencing with opaque coverings.

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 site's existing buildings were previously demolished. This CMP does not speak to demolition.

#### 6.2: Site Excavation

This includes deep excavation, shoring installation and removal of common site material. The development is planned to have 2 levels of underground parking below grade fronting Robie, Cunard and Compton. 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 temporary workplace signage incorporated (refer to the Service Installation Traffic Control Plans (TCP) in the appendix). HRM requires that this service work be limited to weekends only to minimize traffic disruptions. The target dates for this work are provided in the "Key Dates" section above with time of installations adhering to the Noise By-Laws noted above. The intent will be to complete this servicing work and reinstate the street as quickly as possible in order to minimize disruptions to the public.

Before scheduling site services connections, the contractor will notify all neighbouring properties, of the intended timeline for this work. A sample notification letter is included in the appendix.

The contractor intends to reinstate the street cut during the season of work. It is noted that street cuts cannot be left gravel or open. HRM reinstatement specifications must be met, and the travel way must be hard surfaced prior to reopening to the public. Asphalt, concrete curb and sidewalk reinstatement must be completed within 72 hours of disturbance and will be considered temporary if reinstated after October 31<sup>st</sup> or prior to May 1 in which case permanent reinstatement will be completed by June 15.

#### 6.4: Construction Management Plan Element Inspection and Maintenance

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

#### 6.5: Changes to the Construction Management Plan

All departures from the CMP regardless of the significance must be submitted to the Municipality 10 days in advance for review and approval. Any required changes or modifications to the approved CMP will be submitted to HRM for review and approval prior to implementation.

# **Section 7: Environmental Factors**

#### 7.1: Damage to HRM Infrastructure

Existing HRM infrastructure will be reinstated within the encroachment area and/or be completely replaced. This includes reinstatement of the HRM tree lawn, sidewalk and curb and gutter post construction. 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 developer acknowledges that items may require to be fully replaced rather than repaired. The developer also acknowledges that any costs incurred to repair or replace this public infrastructure are the responsibility of the owner. For reinstatement timeline requirements, it is noted that asphalt, concrete curb and sidewalk reinstatement must be completed within 72 hours of disturbance and will be considered temporary if reinstated after October 31<sup>st</sup> or prior to May 1 in which case permanent reinstatement will be completed by June 15 of the following construction season.



### 7.2: Protection of Trees

There is one HRM street tree within the ROW of Cunard Street; two within the ROW of Robie Street, and three within the ROW of Compton Avenue. It is noted that <u>HRM street trees shall not be touched prior to approval</u> and/or compensation agreements between the developer and HRM Urban Forestry are in place. Adjacent street trees are to be protected during construction in accordance with the HRM Tree Bylaw (T-600). Refer to HRM tree protection detail in the appendix.

Given their locations within the planned site driveway and encroachment three HRM street trees directly fronting the project on Compton Avenue will need to be removed with compensation agreements confirmed.

#### 7.3: Line Painting and Temporary Crosswalks

A temporary crosswalk is proposed for this project. Refer to the line painting schematic in the appendix.

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

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

Where the developer plans to utilize the ROW for their street encroachments the developer is responsible to clear snow from the street side of these encroachment barriers, gates and along on street sidewalk fencing.

#### 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), unless approved under HRM exemption process. No work will take place on the project site outside those hours identified in section 2 of this report, unless HRM grants an exception.

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

Breaking of rock may occur and rock faces cleared to form a wall. Mesh will be used on the inside of all construction fencing to mitigate dust control.



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

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

### 7.8: Rodent Control

Rodent movement increases during construction activities. The owner has engaged a rodent control company, to utilize the established Rodent Control Plan (RCP) to help mitigate rodent movement prior to and during 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 site 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

The encroachment will be delineated with a mix depending on the street and proximity to street trees. A combination of chain link fencing and interlocking F-type concrete jersey barriers complete with chain link fencing with a total height (concrete barrier and fencing structure) being 1.8m or 6ft as per the noted administrative order. This fencing will be open chain link fence or 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. In addition, adjacent street trees fronting Robie Street and Cunard Street will be protected as per HRM's tree protection details with orange snow fencing delineating the existing tree lawn between the front of sidewalk and street curb.

Along the private sidelines where vehicular traffic and non-vehicular traffic is present, the hoarding will be delineated by a combination of concrete waste blocks with chain link fencing mounted on top and rigid fencing being 1.8m or 6ft as per the noted administrative order and 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, concrete waste blocks, 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.

#### 8.2: Snow removal

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

The contractor will clear snow from outside the jersey barriers to keep the edge of the vehicle travel lane clear of snow and ice build up on Compton and fencing along the Cunard Street travel lane and Robie Street sidewalk.

#### 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 off Compton Avenue at the project compound along the street line (phase 1) however moved to the ends of the truck layby (phase 2 & 3) to facilitate deliveries. Gates are to swing into site, remain closed when not in use and locked after hours.

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 however may be revisited as construction progresses.

#### 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 site's tower crane is shown in the appendix as is the location of the neighbouring tower crane.

It is anticipated that the tower crane will be assembled from private property or within the encroachment area on Compton Avenue while disassembly may require a temporary street closure.

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

Depending on the stage of construction, 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; we understand Transport Canada and Nav Canada clearances are not required.

#### 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 is outside these approaches; we understand Transport Canada and Nav Canada clearances are not required.

# 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 accessed from Compton Avenue.

#### **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 are existing fire hydrants on Cunard Street and Compton Avenue that will remain outside the project area and will be protected from construction activities. These fire hydrants, along with any existing fire department connections will be accessible to firefighters throughout all phases of the project.

There are no proposed fire department connections at this stage of the project. These are not available for fire department use until after the water supply lines have been installed, tested and commissioned by the water commission, similar with the fire suppression system. This system will not be active until after the building is near complete and the encroachment fencing has been removed.

# Section 11: Pre-Construction Consultation & Meeting

#### **11.1: Pre-CMP Community Consultation**

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

#### **11.2: Project Information and Contacts**

To encourage communication between the project team and the public, contact information will be provided on Project Information Boards; these will be posted prominently around the project site on the fencing; refer to the



appendix for a copy of the Project Information Board and the CMP Plan for the planned locations. Information on signage size and materials is outlined in the appendix.

#### **11.3: Preconstruction Meeting**

Prior to construction the 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.

#### **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 constructionrelated inquiries, please contact the landowner, contractor, or traffic control service provider.

Regards,

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

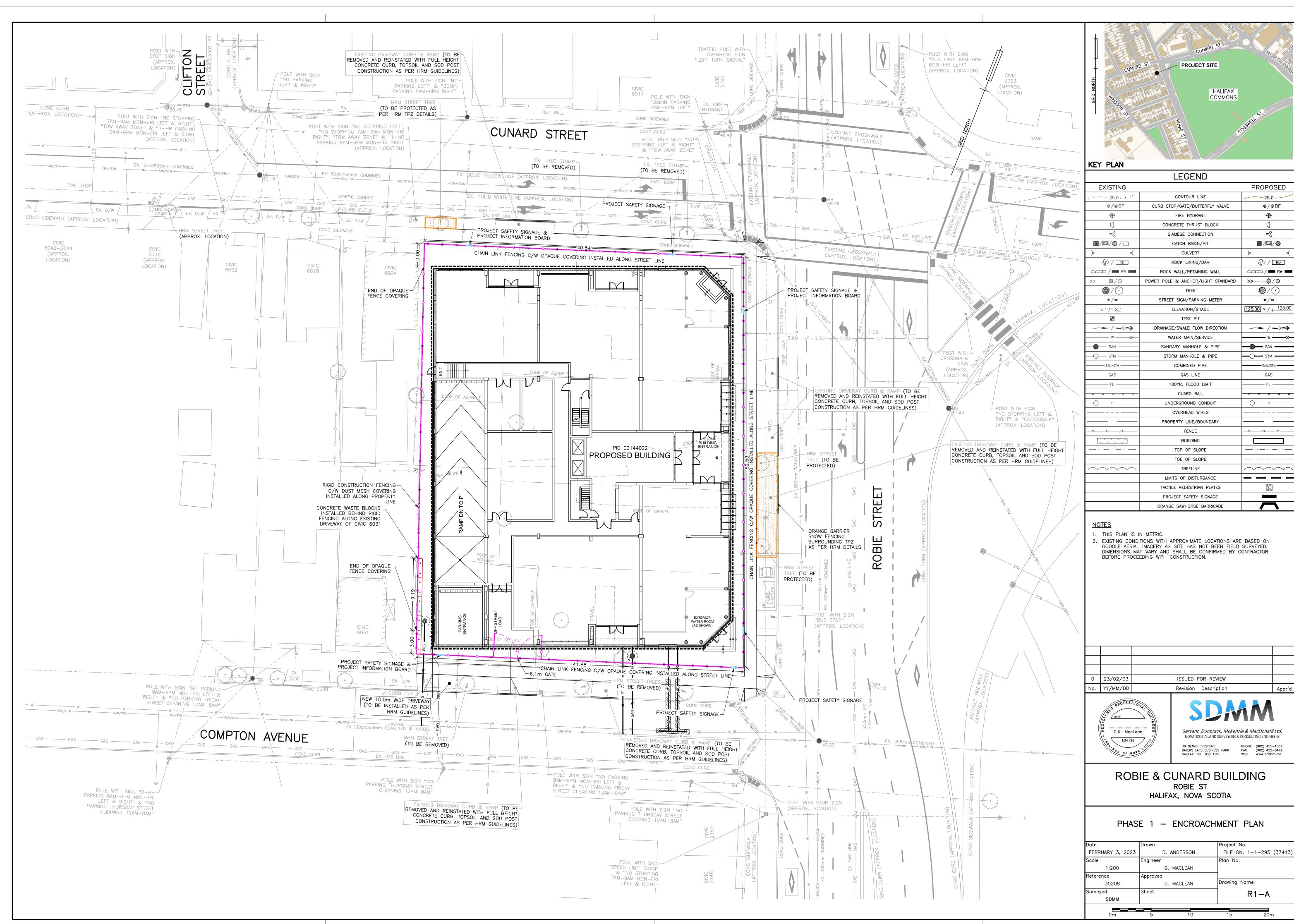
Geoff MacLean, P.Eng. Project Engineer Z:\SDMM\37000-37999\37400\37413\CMP\Rev1\Robie & Cunard - CMP (Rev1) - 37413.docx



# APPENDIX

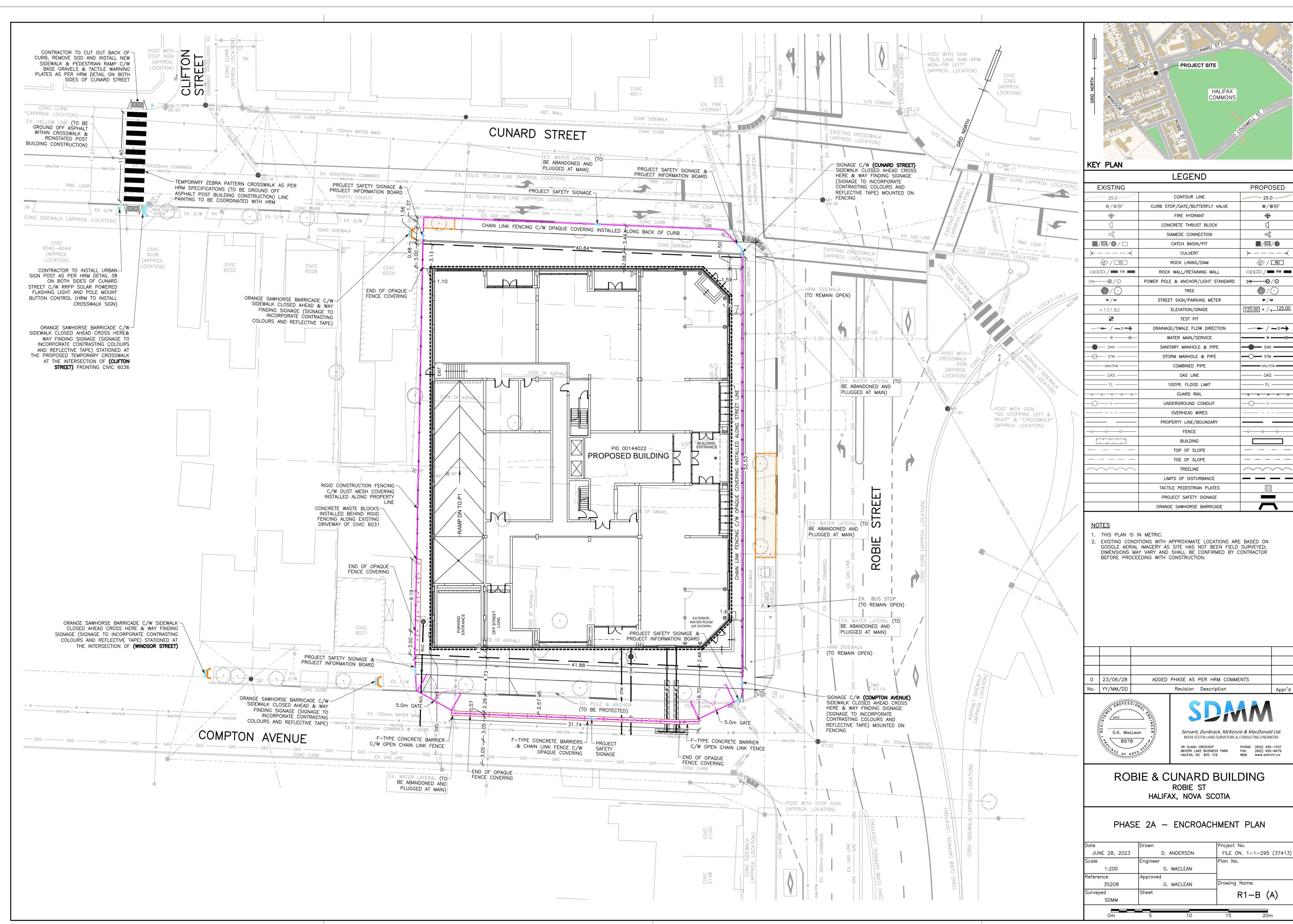


Appendix A – Encroachment Plan



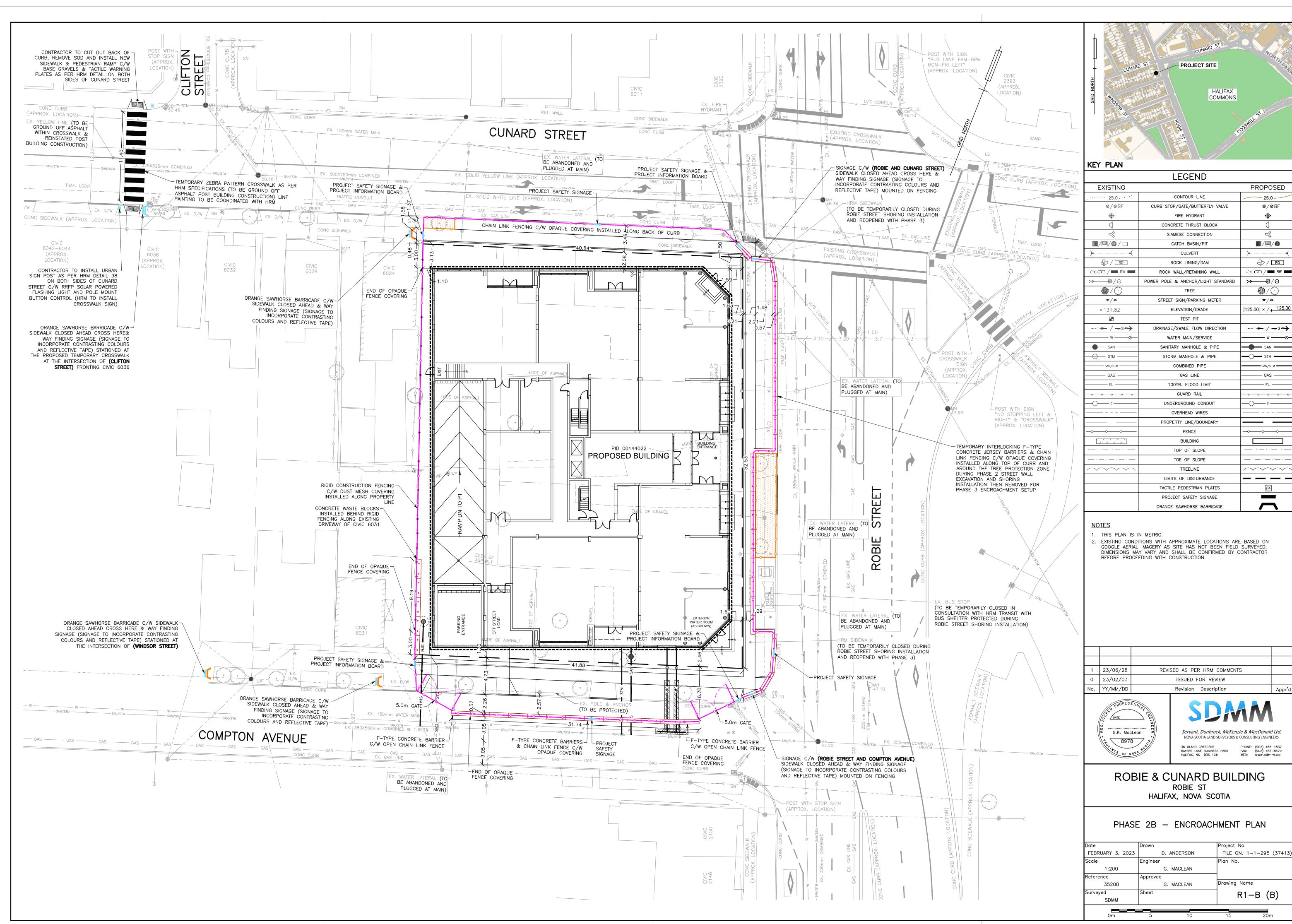
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GAS	GAS LINE	GAS
FL	100YR. FLOOD LIMIT	FL
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c	UNDERGROUND CONDUIT	c
	OVERHEAD WIRES	
	PROPERTY LINE/BOUNDARY	
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	LIMITS OF DISTURBANCE	
	TACTILE PEDESTRIAN PLATES	
	PROJECT SAFETY SIGNAGE	
	ORANGE SAWHORSE BARRICADE	

Date	Drawn	Project No.
FEBRUARY 3, 2023	D. ANDERSON	FILE ON. 1-1-295 (37413)
Scale	Engineer	Plan No.
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Reference	Approved	
35208	G. MACLEAN	Drawing Name
Surveyed	Sheet	R1–A
SDMM		
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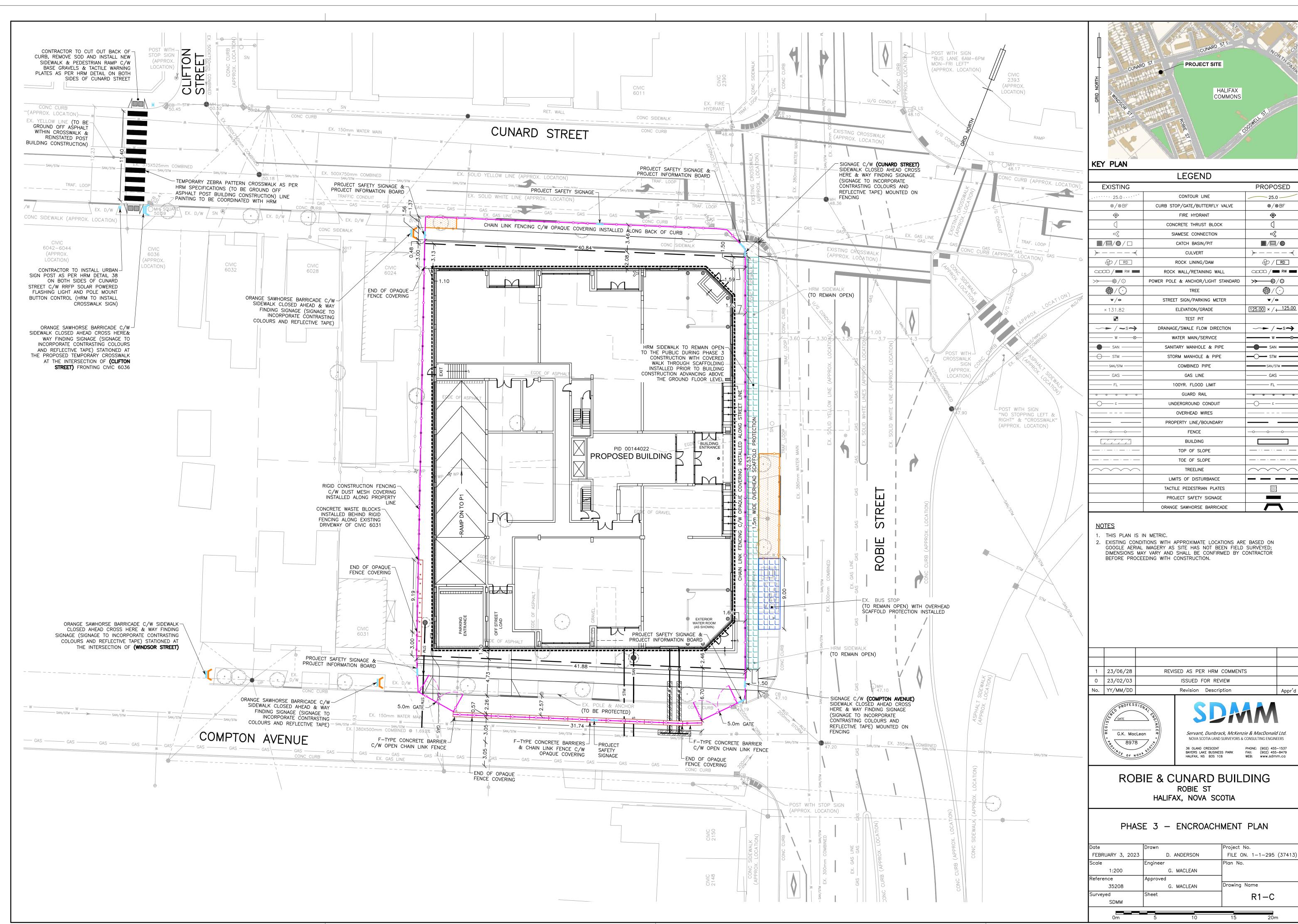
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GAS	GAS LINE	GAS
FL	100YR. FLOOD LIMIT	FL
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	TACTILE PEDESTRIAN PLATES	
	PROJECT SAFETY SIGNAGE	
	ORANGE SAWHORSE BARRICADE	
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Reference	Approved	
35208	G. MACLEAN	Drawing Name
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	SIAMESE CONNECTION	4		
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STM	STORM MANHOLE & PIPE	STM		
SAN/STM	COMBINED PIPE	SAN/STM		
GAS	GAS LINE GAS -			
FL	100YR. FLOOD LIMIT	FL		
	GUARD RAIL			
c	UNDERGROUND CONDUIT	c		
	OVERHEAD WIRES			
	PROPERTY LINE/BOUNDARY			
	FENCE			
	BUILDING			
	TOP OF SLOPE			
	LIMITS OF DISTURBANCE			

Date	Drawn	Project No.
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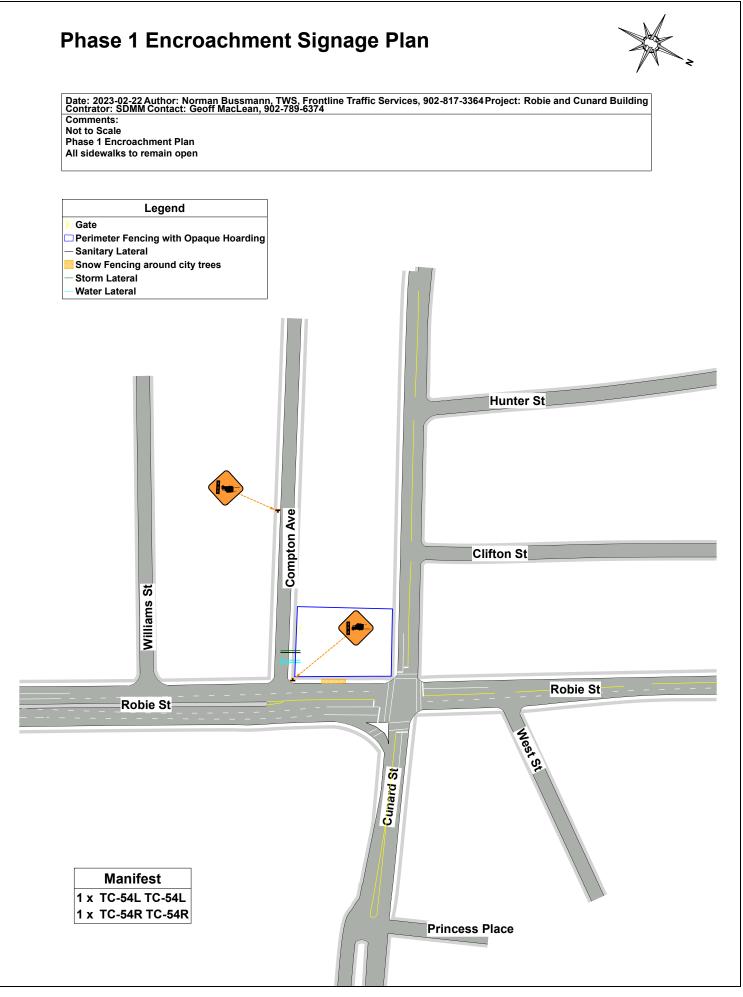
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STM	STORM MANHOLE & PIPE	STM	
SAN/STM	COMBINED PIPE	SAN/STM	
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	PROJECT SAFETY SIGNAGE		
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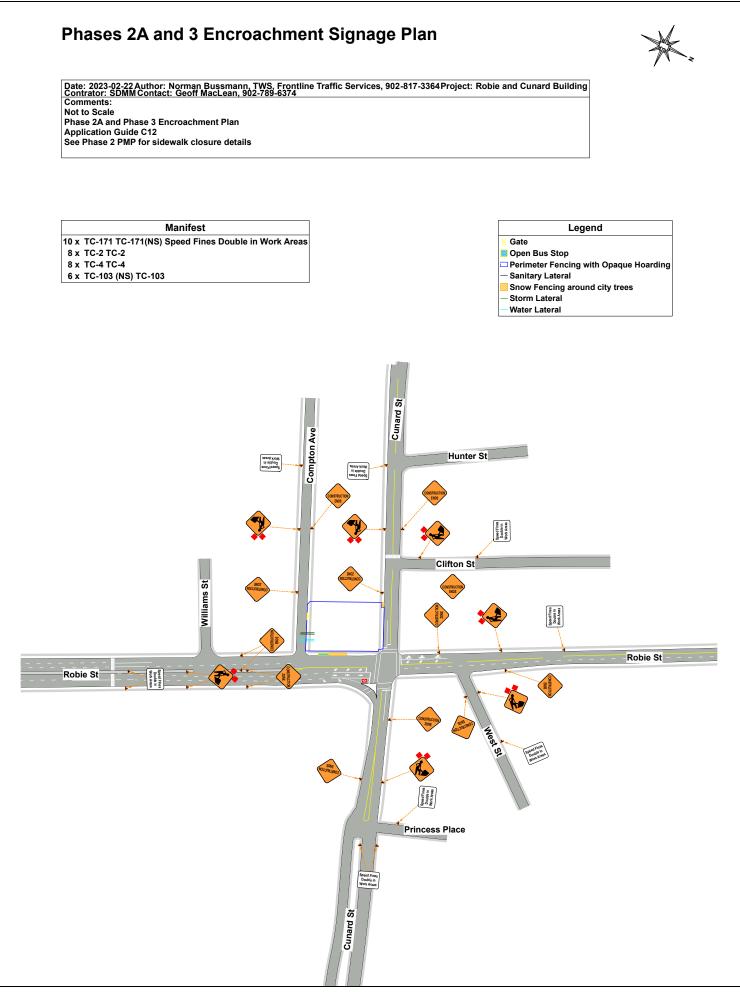
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0	23/02/03	ISSUED FOR REVIEW		
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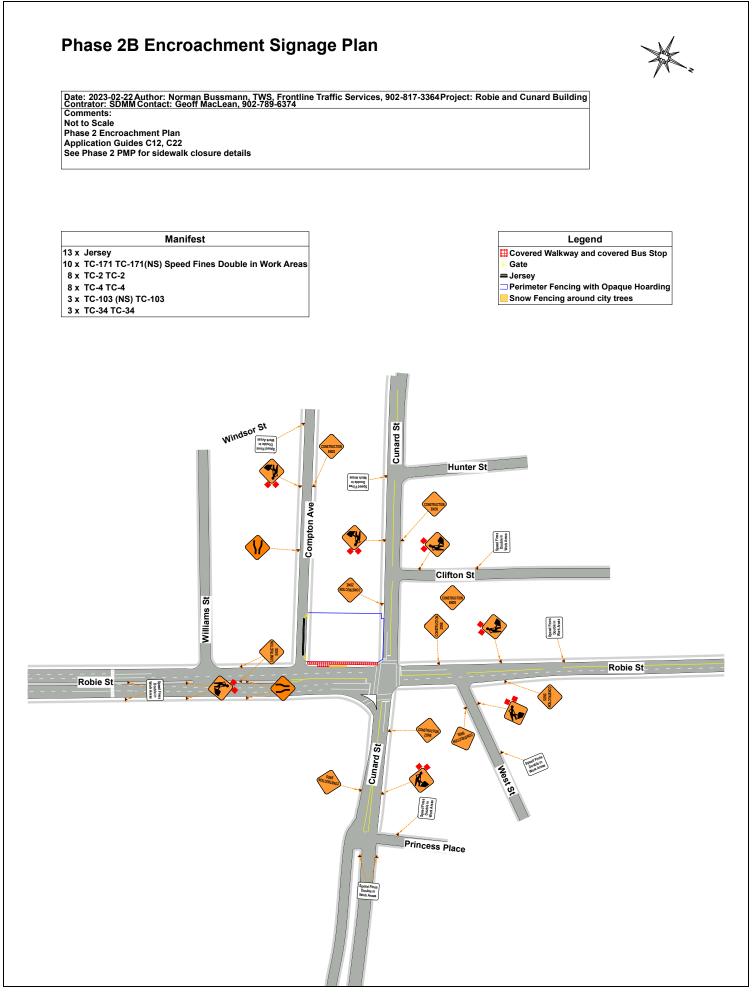


Appendix B – Traffic Control Plans TCP





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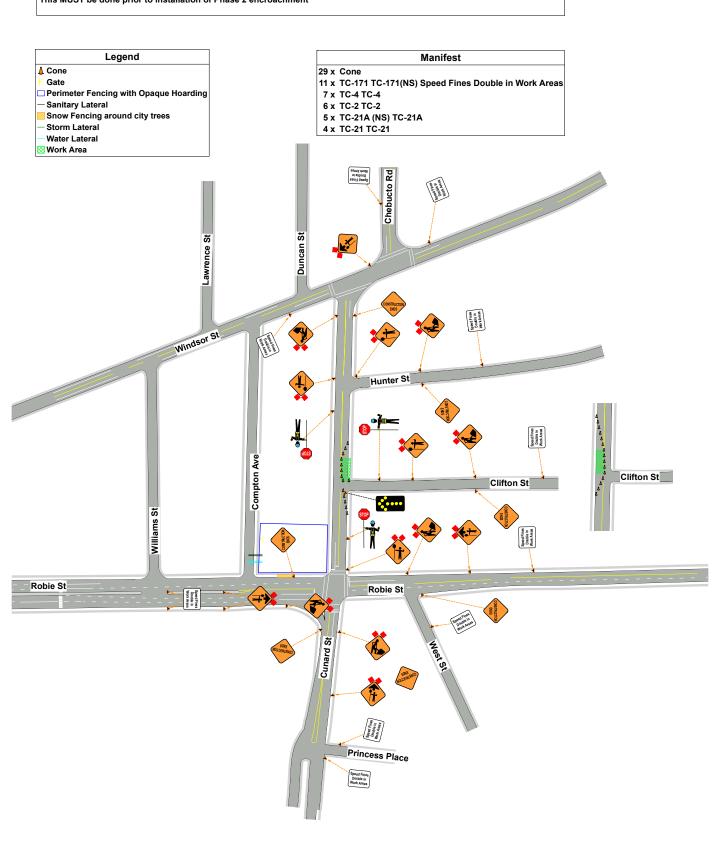


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## **Crosswalk Installation Plan**

Date: 2023-02-22 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: Robie and Cunard Building Contrator: SDMM Contact: Geoff MacLean, 902-789-6374 Comments:

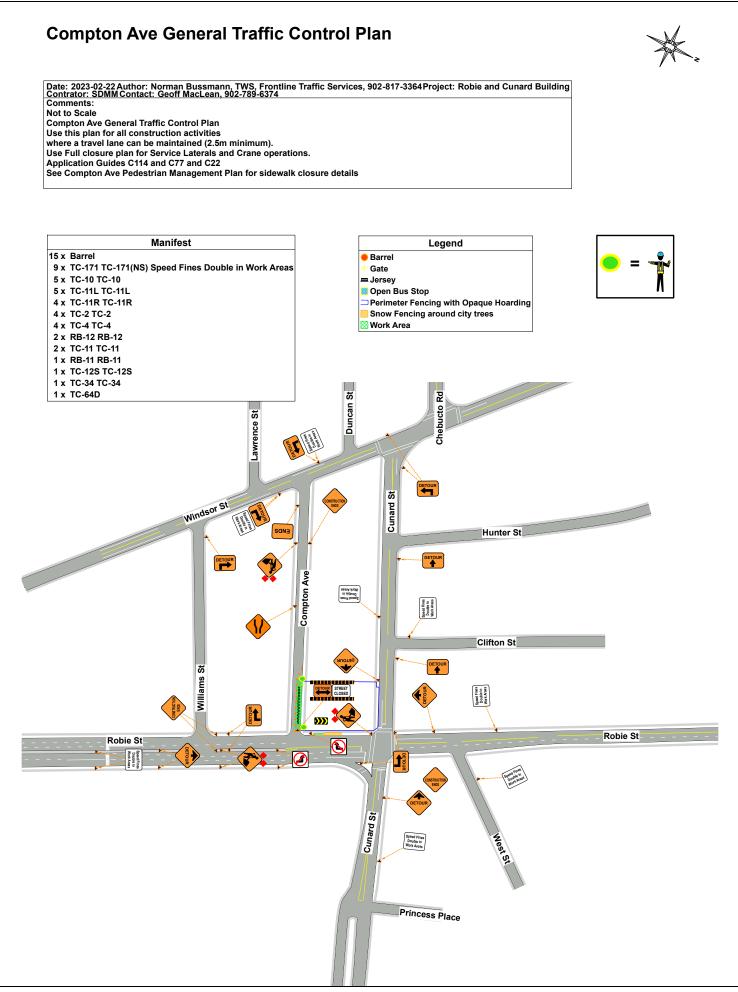
Comments: Not to Scale Crosswalk Installation Plan Application Guide C112 Sidewalk can remain open This MUST be done prior to installation of Phase 2 encroachment



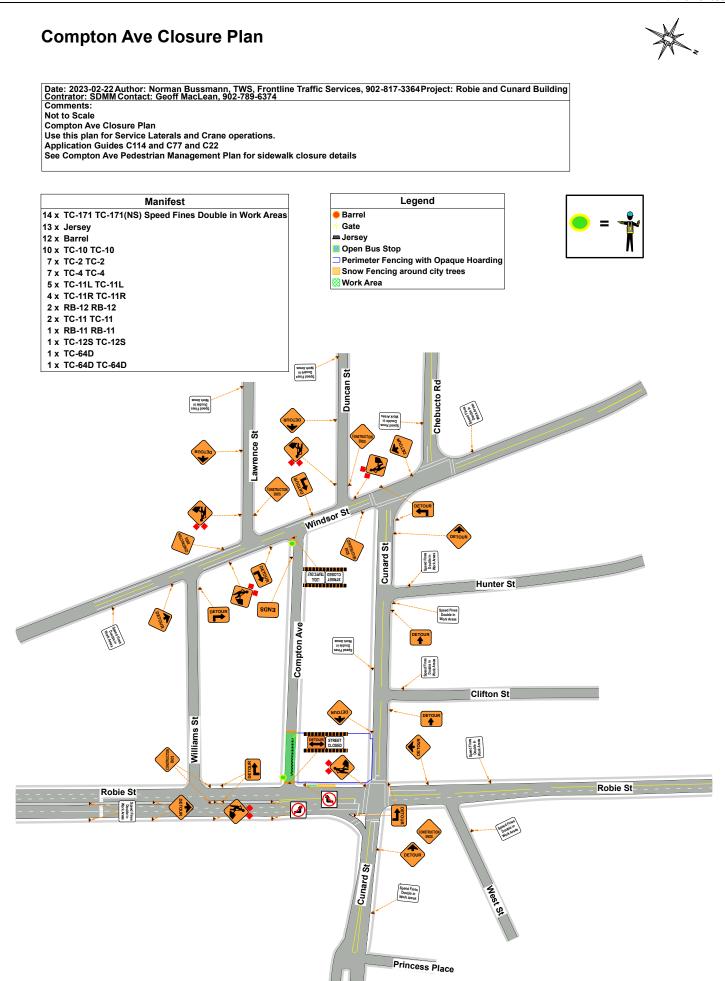




Date: 2023-02-22 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: Robie and Cunard Building Contrator: SDMM Contact: Geoff MacLean, 902-789-6374 Comments: Not to Scale **Cunard St General Traffic Control Plan Application Guide C23** See Cunard St PMP for sidewalk closure details Manifest 29 x Cone 10 x TC-171 TC-171(NS) Speed Fines Double in Work Areas 9 x TC-2 TC-2 7 x TC-4 TC-4 5 x TC-34 TC-34 2 x RB-25 peed Fines Double in Work Areas Legend Speed Fines Double in Work Areas 👃 Cone Gate Perimeter Fencing with Opaque Hoarding Sanitary Lateral Hunter St Snow Fencing around city trees Storm Lateral Water Lateral 🛛 Work Area Speed Fines Double in Work Areas Compton Ave seni∃ beeq2 ni elduod ssenA hoW Clifton St 7 Williams St peed Fines Double in Work Areas ۵ ۵ ۵ 7 Robie St Speed Fines Double in Work Areas Robie St Cunard St West St Princess Place Speed Fines Double in Work Areas

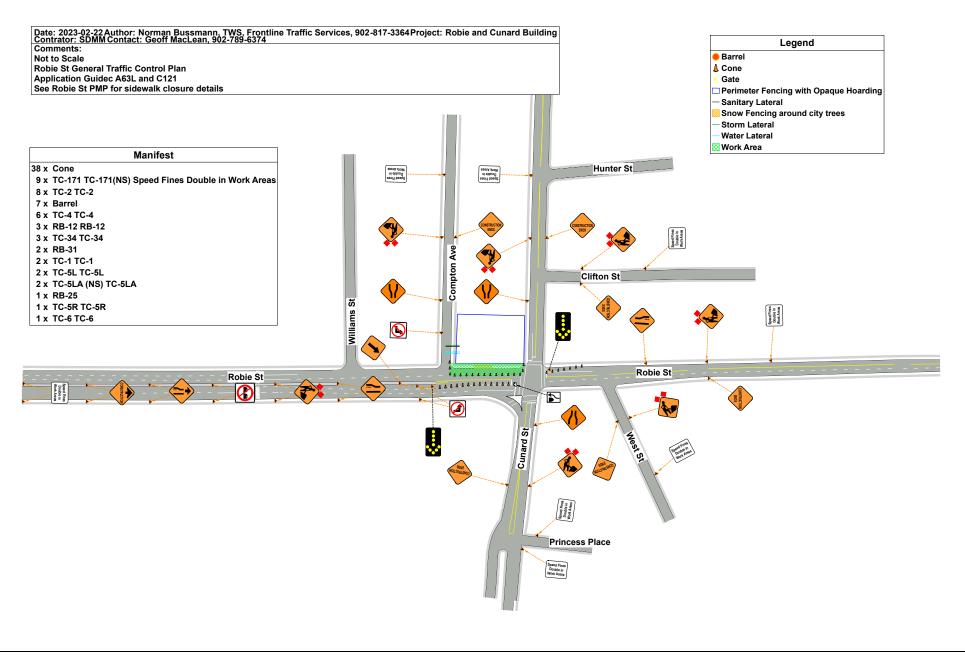


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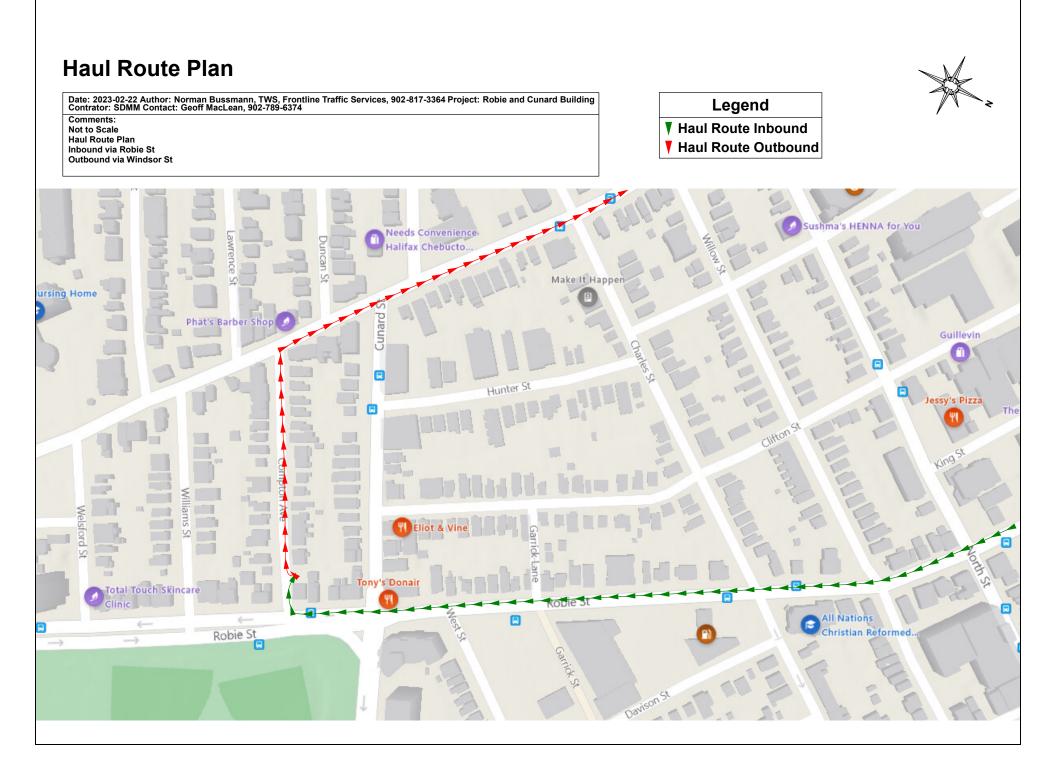
## **Robie St General Traffic Control Plan**





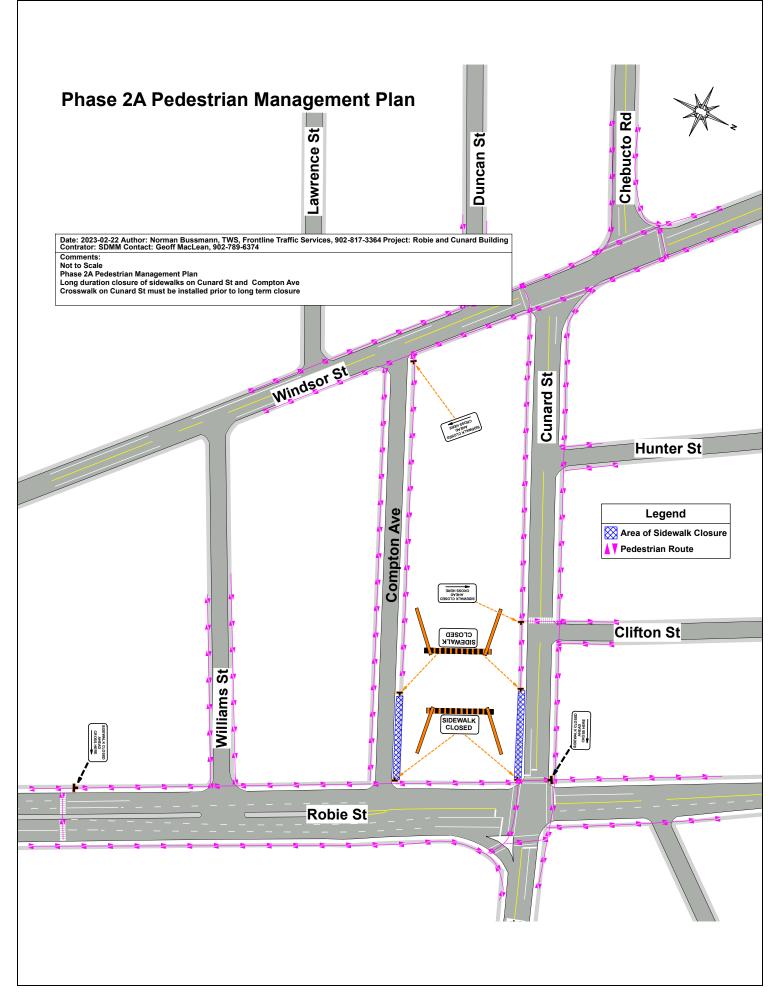


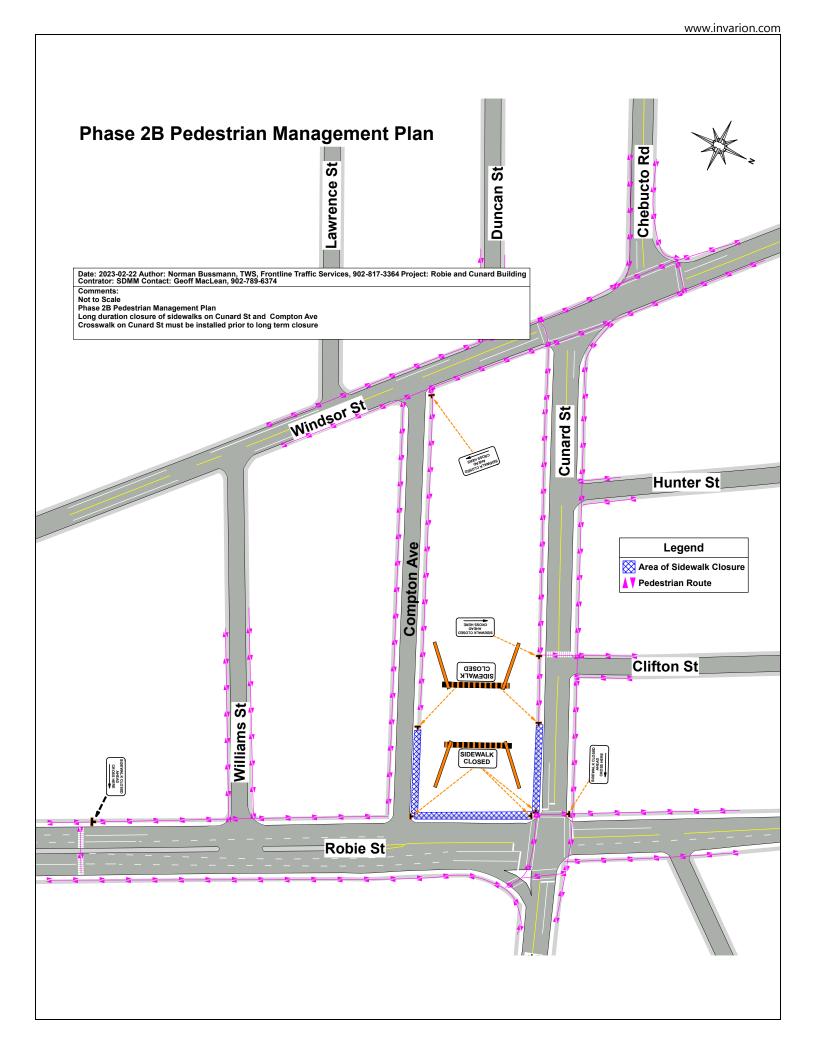
Appendix C – Haul Route Plan

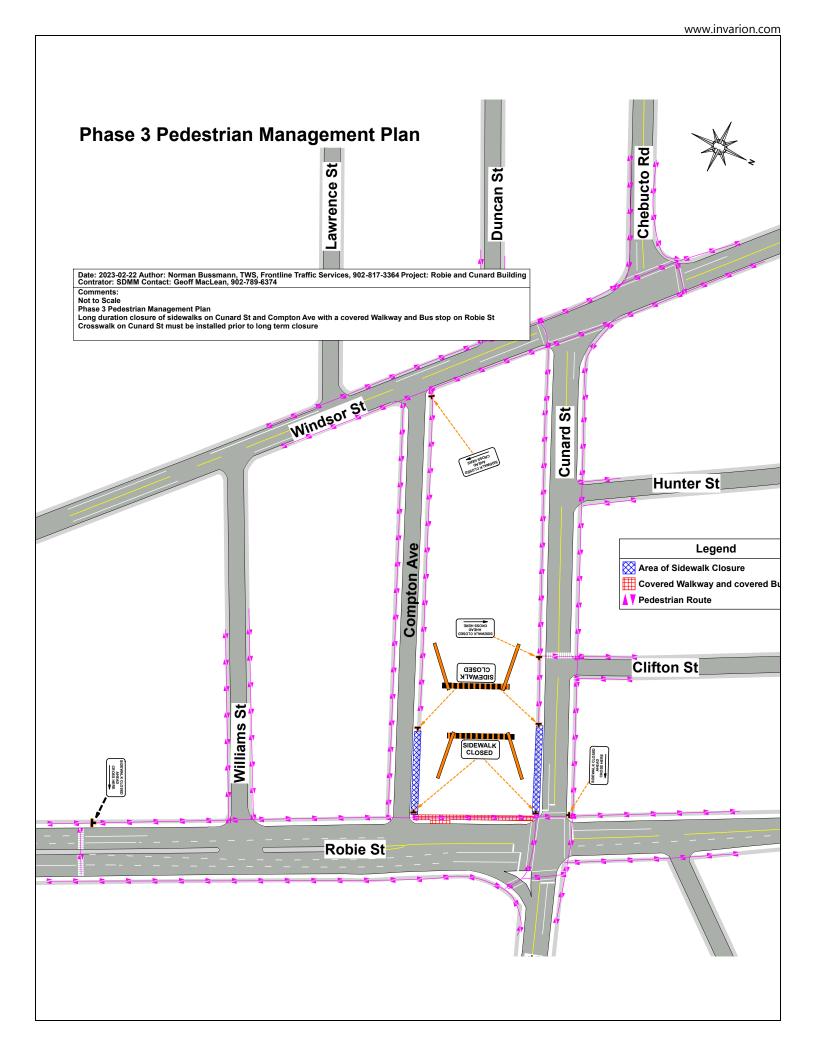


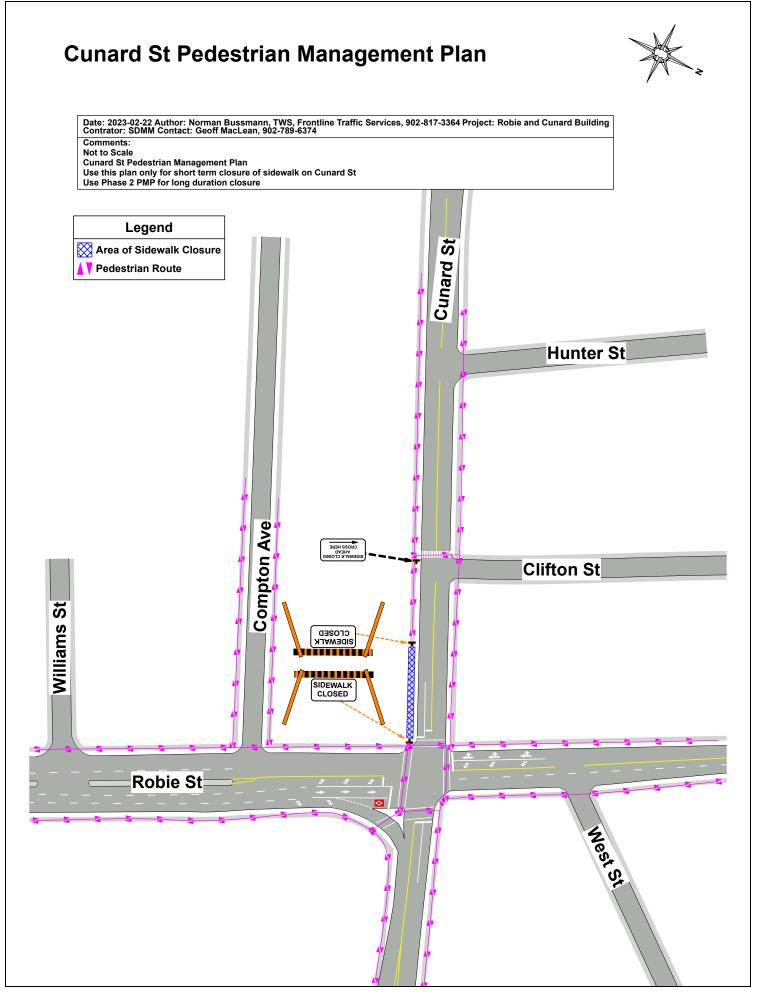


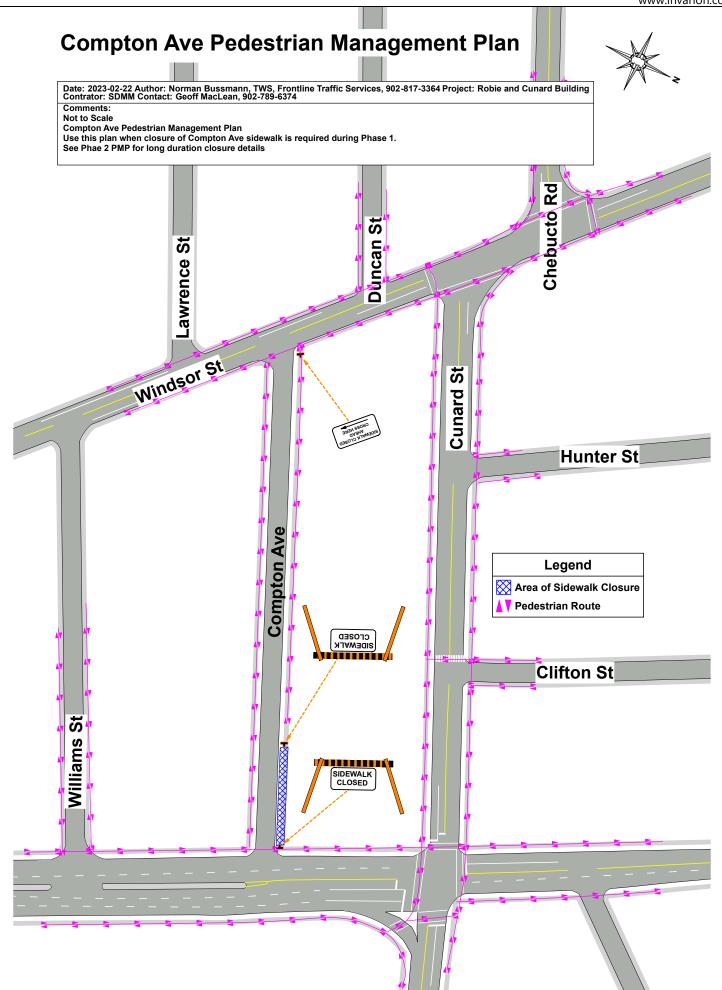
Appendix D – Pedestrian Management Plan (PMP)

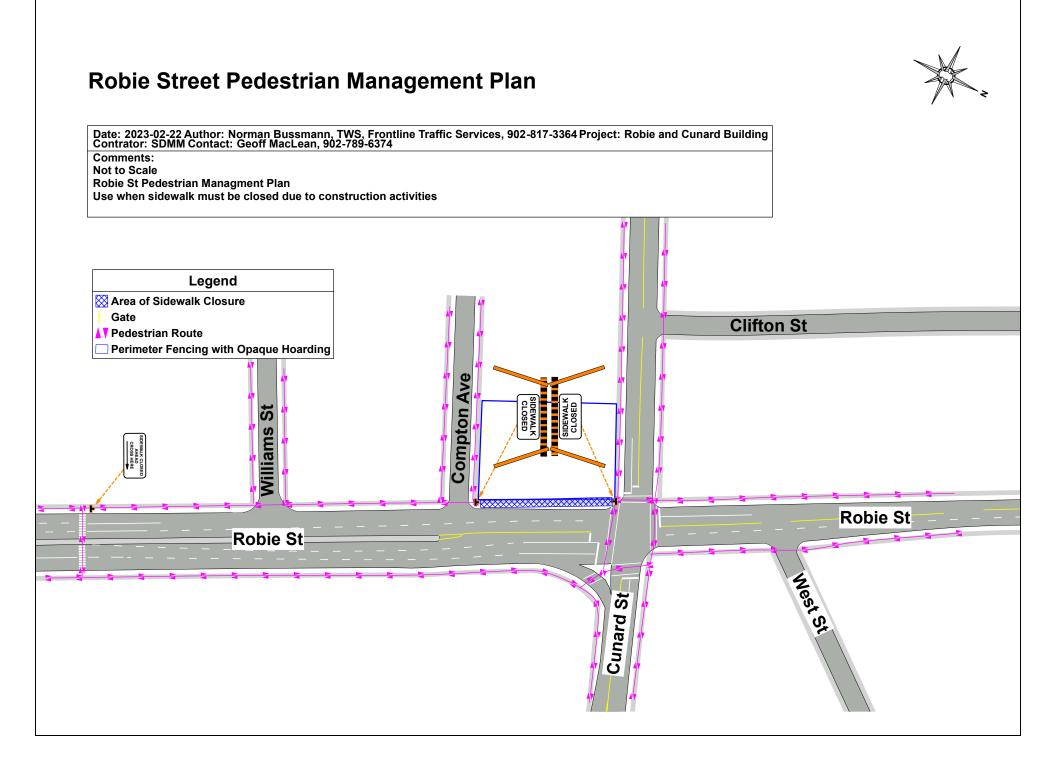






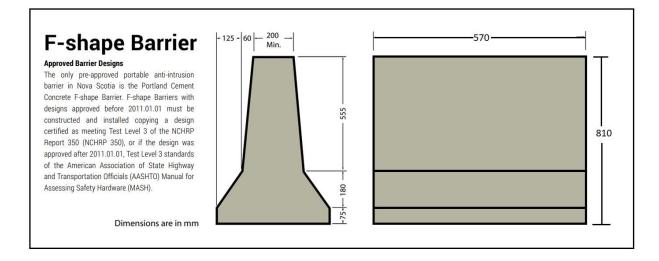


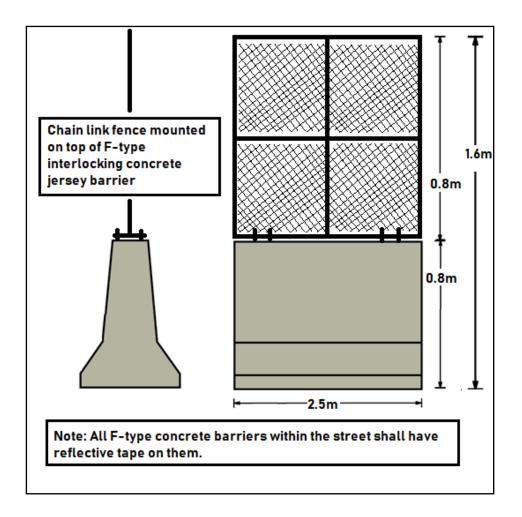


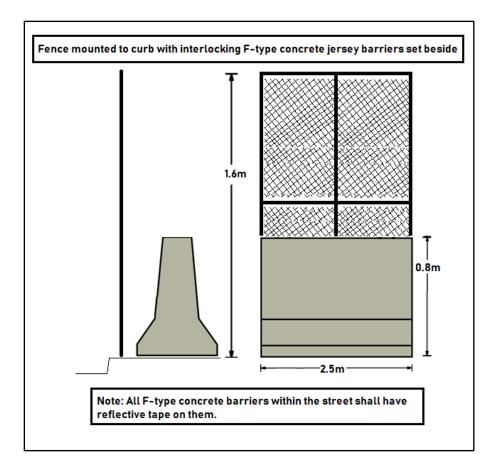


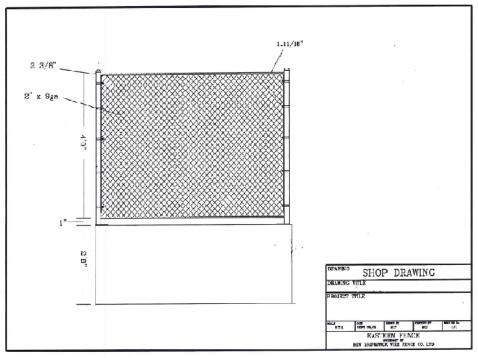


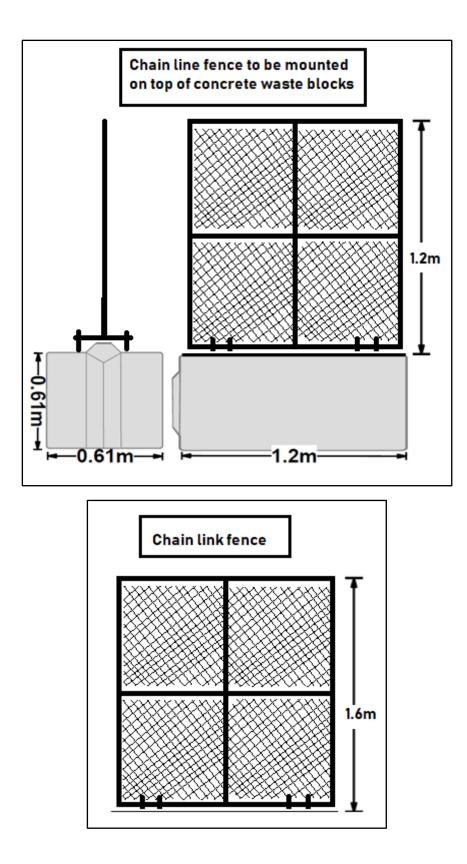
### **Appendix E** – Barrier, Waste Blocks, Fence & Gates Information

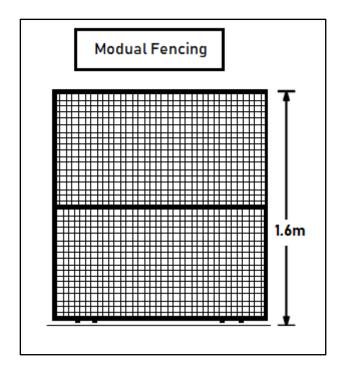


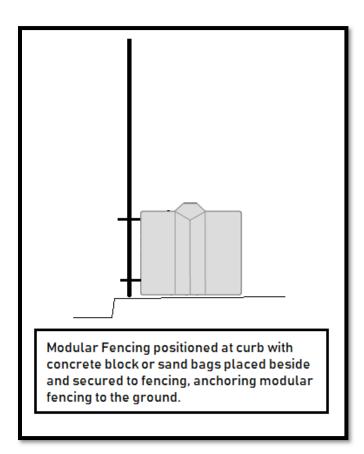




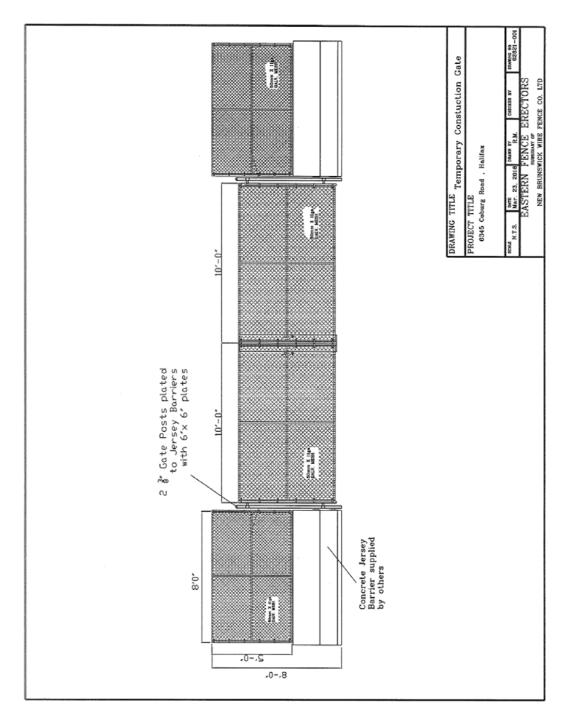








Sample Gate Detail





Appendix F – Hoarding Information

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

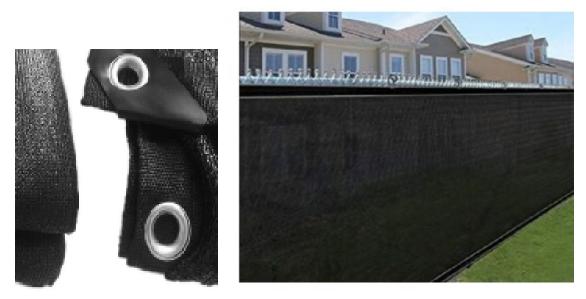
UltraMesh<sup>®</sup> Eclipse<sup>®</sup> if a 7.96 oz. which is a polyester, black-backed mesh that is used where complete opacity is required.

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		12×12			
Total Weight	DIN53352 BS3424 Method5A	270 +/- 20 gsm/m²	7.96 oz/yd <sup>2</sup>		
Width		Up to 500cm			
Tensile Strength	DIN53352 BS3424	Warp 1250 n/5cm Weft 1100 n/5cm	142.75 x 130.19 lb/in		
Tear Strength	DIN53356 BS3424	Warp 235 N Weft 225 N	52.8 x 50.5 lbf		
Air Permeability	GB/T 2410-2008	2649 mm/s			
Light Transmission	GB/T 5453-1997	37%			
Temperature Resistance	DIN53357 BS3425 Method 10	-20°C 170°C			

#### Applications

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

#### Ink Printability

#### Available Sizes

Solvent	Eco Solvent	UV	Latex	Screen Printing	Dye Transfer	Dye Direct		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.ultrafieXX.com updated: 12/2016

Ultraflex Systems Inc.

# Ultraflex Systems Inc. Ultraflex Europe 1578 Sussex Tumpike, Bidg. 4 Randolph, NJ 07869 Great Gransden Bedfordshire

Ultraflex Méxi Azafrán No. 112, Col. Granjas Mésico Del. Iztacalco, C.P. 08400, México D.F. Tel: (55)31823632,3182 3608 01 800 822 52 31 Email: sales.mx@ultrafex.com

Ultraflex Guad Av. Patria No. 2804 Loma Bonita Sur. Zapopan, Jalisco CP45086 Mexico Tel: (55)3312-049-857



### **Appendix G – Project Information Board**



August 2023 – September 2025

#### **Developer:**

Commons View Holdings Limited 1181 Larry Uteck Blvd Suite 201, Bedford, NS 24 Hour Contact: Farhang Fotovat – (902) 830-8815 Contractor: Dexter Construction Bedford, NS

### Contact:

Nick Wilson - (902) 209-2902

### 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:**

Riteway Pest Control 2489 St. Margaret's Bay Road, Timberlea, NS **Contact:** Main Office – 902- 440-0592

### PROPOSED MULTI-UNIT BUILDING Robie & Cunard Development

10 Storey – Residential Building

112 Residential Units on 8 Levels

Ground Level Commercial Space

Level 10 Green Roof Terrace and Common Area

Mixture of 1-3 Bedroom Units

2 Levels Underground Parking

Indoor Bicycle Parking and Storage



Appendix H – Project Safety Signage

Sample Safety Signage









### Appendix I – Project Signage Specifications

Signage Specifications: Project Signage shall;

- Be constructed of weatherproof material (corrugated plastic)
- Have high visibility contrasting colours (dark letters on white background)
- Incorporate appropriate font types (mix of upper and lower-case lettering)
- Incorporate appropriate font sizes (16mm 51mm) such that the signage is readable from a distance (16-20m)
- Size of signage will be poster size (600mm x 900mm) or larger; to allow community members to see and read the information from a distance
- Signage may incorporate plastic grommets positioned every 300mm around the perimeter of the signage to ensure a secure signage installation
- Signage will be installed/anchored to project fencing using plastic zip-ties
- Signage will be positioned along the project site as per the encroachment plan
- Signage shall not impede traffic of pedestrian sight lines
- Signage shall be placed on site 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



### **Proposed Multi-Unit Residential Building**

DRAFT NOTIFICATION LETTER

TO WHOM IT MAY CONCERN Date

#### NOTIFICATION OF TRAFFIC DISRUPTION: Street Name, HALIFAX, NOVA SCOTIA

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

Atlantic Road Construction and Paving 6 Belmont Avenue, P.O. Box 89 Eastern Passage, NS B3G 1M7 Phone: (902) 830-6411

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

Yours Truly,

Greg MacDonald

Atlantic Road Construction and Paving



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

Date:

	VEHICULAR & PEDESTRIAN HAZARD ASSESSMENT									
No.	Hazard:	Project Phase:	Vehicular Impacts:	Mitigation Methods:	Pedestrian Impacts:	Mitigation Methods:				
	Excavation	Excavation	Vehicles may enter project site and fall down excavation.	ace concrete barriers along travel ways. Concrete barriers and risting curbs to prevent vehicle entry.						
1			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	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.				
5			Heavy machinery or vehicles may overturn due to uneven terrain, damaging other vehicles.	The contractor shall maintain safe distances between vehicles and heavy machinery on-site and ensure travel routes are kept flat.	Heavy machinery or vehicles may overturn due to uneven terrain, injuring pedestrians. Pedestrians may walk on uneven terrain causing them to twist their ankles or fall.	The contractor shall maintain safe distances between pedestrians, vehicles, and heavy machinery and ensure travel routes are kept flat.				
6	Construction Signage	All Phases	Construction signage may strike vehicular traffic.	Construction signage will be securely fixed to existing poles, temporary concrete sign bases, or rigid fences.	Pedestrians may walk into construction signage, including traffic signage, wayfinding signs, etc. may.	Signage will be angled in line with pedestrian routes and/or be placed at heights such that they do not pose a risk to pedestrians.				
					Construction signage may strike pedestrians.	Construction signage will be securely fixed to existing poles, temporary concrete sign bases, or rigid fences.				
7	Dangerous Materials	All Phases	Flammable, explosive, & hot materials may damage vehicles if not properly maintained & stored.	The contractor will use and store dangerous materials properly as per manufacturers' specifications.	Flammable, explosive, & hot materials may injure pedestrians if not properly maintained & stored.	The contractor will use and store dangerous materials properly as per manufacturers' specifications.				
8	Hoisting Operations Superstructure		Precast concrete panels and other items hoisted may fall from heights and damage vehicles.	Proper hoisting and lifting techniques will be used to ensure that materials do not fall from heights. F-Type concrete barriers will be installed such that loads are never suspended above the public realm.	Precast concrete panels and other items hoisted may fall from heights and injure pedestrians.	Proper hoisting and lifting techniques will be used to ensure that materials do not fall from heights. Pedestrians will be moved to opposite sides of street from the project site or onto temporary sidewalks such that loads are never suspended above the public realm.				
9	Reinstatement of Public Infrastructure & Service Installation	Superstructure	Heavy equipment and hot concrete used during public infrastructure reinstatement and service installation may cause damage to vehicles.	The contractor shall maintain safe distances between vehicles and heavy machinery on-site. Concrete barriers will be installed to separate construction vehicles from public traffic during public infrastructure reinstatement and service installation.	Heavy equipment and hot concrete used during public infrastructure reinstatement may injure pedestrians.	The contractor shall maintain safe distances between pedestrians, vehicles, and heavy machinery.				
10	Fallen debris	Superstructure	Debris may fall from upper stories of the new building causing damage to vehicles.	F-Type concrete barriers will be installed such that a safe distance is maintained between the building envelope and vehicular traffic.	Debris may fall from upper stories of the new building injuring pedestrians.	Construction of upper building levels will be set back from the property line/rigid fencing, this separating pedestrians from potential fallen debris.				



### Appendix L – Community Consultation Records

### **COMMUNITY CONSULTATION MAP OVERVIEW**



Project – Robie & Cunard Development

## **Notification Letter**

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

Commons View Holdings Limited – Building Construction Information Meeting

Dear Neighbour,

As you may be aware, we are planning an apartment building construction project located on Robie Street, Halifax.

If you are interested in receiving more information about our construction plans, practices, schedule and to go over any questions you may have regarding construction of our new project please contact us to discuss. We would be happy to meet with you to discuss.

Thank you.

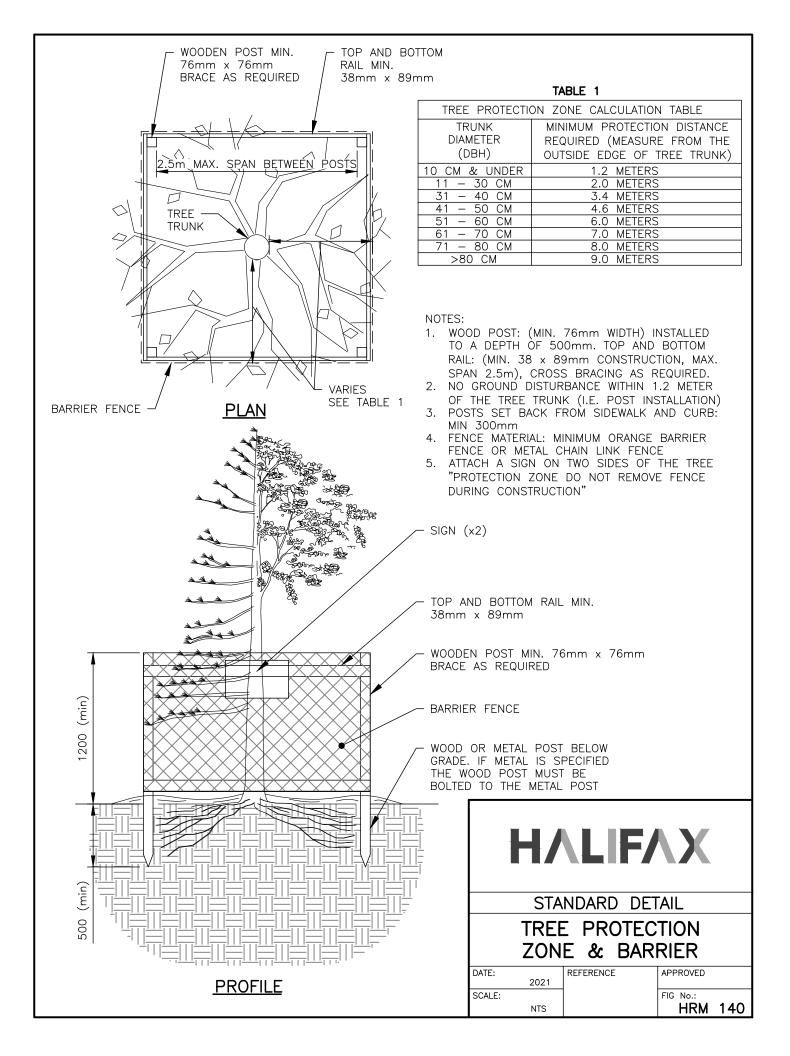
Farhang Fotovat

Cell: 902-830-8815

Email: ffotovat@cresco.ca

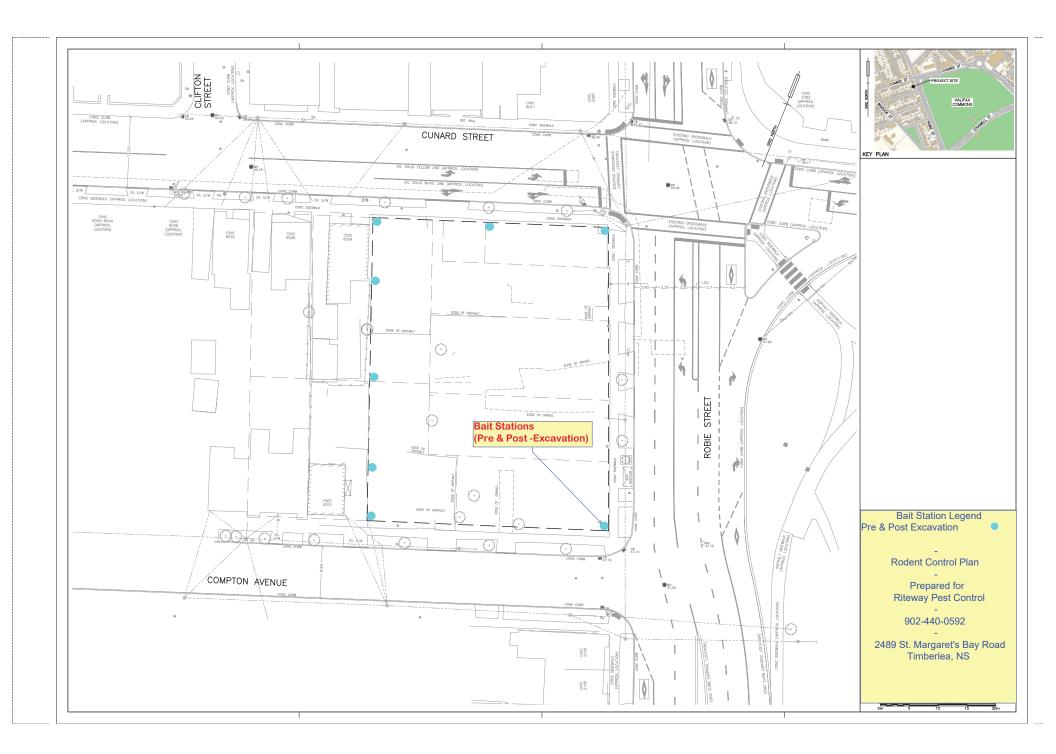


Appendix M – HRM Tree Detail





Appendix N – Rodent Control Plan





### THE MOST ADVANCED LOW-PROFILE BAIT STATION







### **PRODUCT FEATURES:**

- Single locking mechanism for quick servicing
- Removable tray for easy cleaning
- Locking bait rods won't fall out during cleaning
- Dog & child tamper-resistant
- Can hold:
  - 4 1 oz. bait BLOX on 4 vertical rods - or -

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

▶ Compatible with Sidekick<sup>®</sup> Load-N-Lock<sup>™</sup> system

PRODUCTCODEDIMENSIONS (in)CASE QTYProtecta Evo AmbushEA20008 1/2 x 10 1/4 x 4 1/46 Stations

Bell More Than Meets The Eye

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

www.belllabs.com

# ALL-WEATHER BLOX<sup>TM</sup>







# 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 INGREDIENTS1:
 99.995%

 \*Contains Denatonium Benzoate
 TOTAL
 100.000%

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

# NET WT: 18 Ibs (8.2 kg)

#### FIRST AID

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

#### IF SWALLOWED:

- Call a poison control center, doctor, or 1-877-854-2494, or 1-800-858-7378\*\* immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- IF ON SKIN OR CLOTHING:
- Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes.
   Call a poison control center or doctor for treatment advice.
- IF IN FYFS:
- 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 svallowed or absorbed through the skin, this material may reduce the clotting ability of the blood and cause bleeding. If ingested, administer Vitamin K<sub>1</sub> intramuscularly or orally. Repeat as necessary based on monitoring of prothrombin times.

#### TREATMENT FOR PET POISONING If animal eats bait. call veterinarian at once.

NOTE TO VETERINARIAN

Anticoagulant Bromadiolone: For animals ingesting bait and/or showing poisoning signs (bleeding or elevated prothrombin times), give Vitamin  $K_1$ . 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, pels, 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 (*Raitus norveĝicus*), Roof rat (*Raitus raitus*), Cotton mouse (*Peromyscus gossypinus*), Cotton rat' (*Sigmodon hispidus*), Deer mouse (*Peromyscus maniculatus*), Eastern harvest mouse' (*Reihnodontomys humuli*), Golden mouse' (*Ochrotomys nuttalii*), Polynesian rat' (*Raitus 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 intestations. 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):	0.0059
OTHER INGREDIENTS <sup>†</sup> :	. 99.9959
<sup>†</sup> Contains Denatonium Benzoate TOTAL	100.000%

## KEEP OUT OF REACH OF CHILDREN CAUTION

See side panels for First Aid and additional precautionary statements.

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Pesticide Storage: Store only in original container in a cool, dry place inaccessible to children and pets. Keep containers closed and away timo other chemicals.

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

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

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

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

EPA REG. NO. 12455-79



#### 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 severs.

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. Bernove as much alternative food as possible.

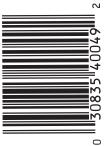
#### APPLICATION DIRECTIONS:

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

MICE AND MEADOW VOLES\*: Place 1 block per placement. Space placements at 8- to 12-foot intervals in infested areas. Two blocks may be needed at points of very high activity. Maintain

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

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



PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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

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

#### User Safety Requirements

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

#### ENVIRONMENTAL HAZARDS

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

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

Product Code: CB4051

EPA EST. NO. 12455-WI-1



# **DETEX<sup>®</sup>BLOX** with LUMITRACK

### SAFETY DATA SHEET

ACCORDING TO REGULATION: OSHA Hazard Communication Standard 29 CFR 1910.1200 **DATE OF ISSUE:** January 2016

PREPARED BY: CAR

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: DETEX<sup>®</sup> BLOX with LUMITRACK

EPA Registration Number: NA Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses: Activity Monitoring - Ready to use Uses advised against: Use only for the purpose described above

#### MANUFACTURER/SUPPLIER:

Bell Laboratories, Inc. 3699 Kinsman Blvd. Madison, WI 53704, USA Email: sds@belllabs.com Phone: 608-241-0202 Medical or Vet Emergency: 877-854-2494 or 952-852-4636 Spill or Transportation Emergency: 800-424-9300 (CHEMTREC)

## **SECTION 2. HAZARDS IDENTIFICATION**

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

Signal Word: None

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

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	% By weight
Inert and Non-Hazardous Ingredients	Proprietary	100.00%
(Unlisted components are non-hazardous)		
SECTION 4. FIRST AID	MEASURES	5

Description of first and measures
Ingestion: Non-Toxic
Inhalation: Not applicable.
Eye contact: Non-Toxic
Skin contact: Non-Toxic
Most important symptoms and effects, both acute and delayed
Non-Toxic
Advice to physician: Non-Toxic
Advice to Veterinarian: Non-Toxic

## **SECTION 5. FIRE-FIGHTING MEASURES**

#### Extinguishing media

Suitable Extinguishing Media: water, foam or inert gas.

Unsuitable Extinguishing Media: None known.

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

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

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures: None. Non-Toxic
Environmental precautions: None. Non-Toxic
Methods and materials for containment and cleaning up
For Containment: None. Non-Toxic
For Cleaning Up: None. Non-Toxic
Reference to other sections: Refer to Sections 7, 8 & 13 for further details of personal precautions, personal protective equipment and disposal considerations.

## SECTION 7. HANDLING AND STORAGE

**Precautions for safe handling**: Do not use near heat sources, open flame, or hot surfaces. Non-Toxic. **Conditions for safe storage, including any incompatibilities:** None. Non-Toxic

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Appropriate Engineering Controls: None. Non-Toxic Occupational exposure limits: None. Non-Toxic Personal Protective Equipment: Respiratory protection: Not required Eye protection: Not required Skin protection: None. Non-Toxic Hygiene recommendations: None. Non-Toxic

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties **Appearance/Color: Odor: Odor Threshold:** pH: Melting point: **Boiling point:** Flash point: **Evaporation rate:** Flammability: Upper/lower flammability or explosive limits: Vapor Pressure: Vapor Density: **Relative Density:** Solubility (water): Solubility (solvents): Partition coefficient: n-octanol/water: Auto-ignition temperature: **Decomposition temperature:** Viscosity:

Tan wax block Sweet grain-like Not applicable, odor not associated with a hazardous material. Not applicable, is not dispersible with water. Not applicable Not applicable Not applicable, does not contain components classified as flammable. Not applicable, is a solid. Not applicable, is a solid. Not applicable, does not contain components classified as flammable or explosive. Not applicable Not applicable, is a solid 1.13 g/mL @ 20°C Not water soluble Not applicable Not applicable Not applicable, does not contain components classified as flammable. Not applicable Not applicable, is not a liquid.

## SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not Applicable Chemical stability: Not Applicable Possibility of hazardous reactions: Refer to Hazardous decomposition products Conditions to avoid: Avoid extreme temperatures (below 0°C or above 40°C). Incompatible materials: Not Applicable Hazardous decomposition products: Not Applicable

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute Toxicity LD50, oral (ingestion): Not Toxic LD50, dermal (skin contact): Not Toxic LC50, inhalation: Not Toxic Skin corrosion/irritation: Not Toxic Serious eye damage/Irritation: Not Toxic. Respiratory or skin sensitization: Not Toxic Germ cell mutagenicity: Not Toxic Carcinogenicity: Not Toxic

Components	NTP	IARC	OSHA	
None	NA	NA	NA	I

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

## SECTION 12. ECOLOGICAL INFORMATION

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

## SECTION 13. DISPOSAL CONSIDERATIONS

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

## SECTION 14. TRANSPORT INFORMATION

UN number: Not regulated

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

## **SECTION 15. REGULATORY INFORMATION**

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

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

## **SECTION 16. OTHER INFORMATION**

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

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

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

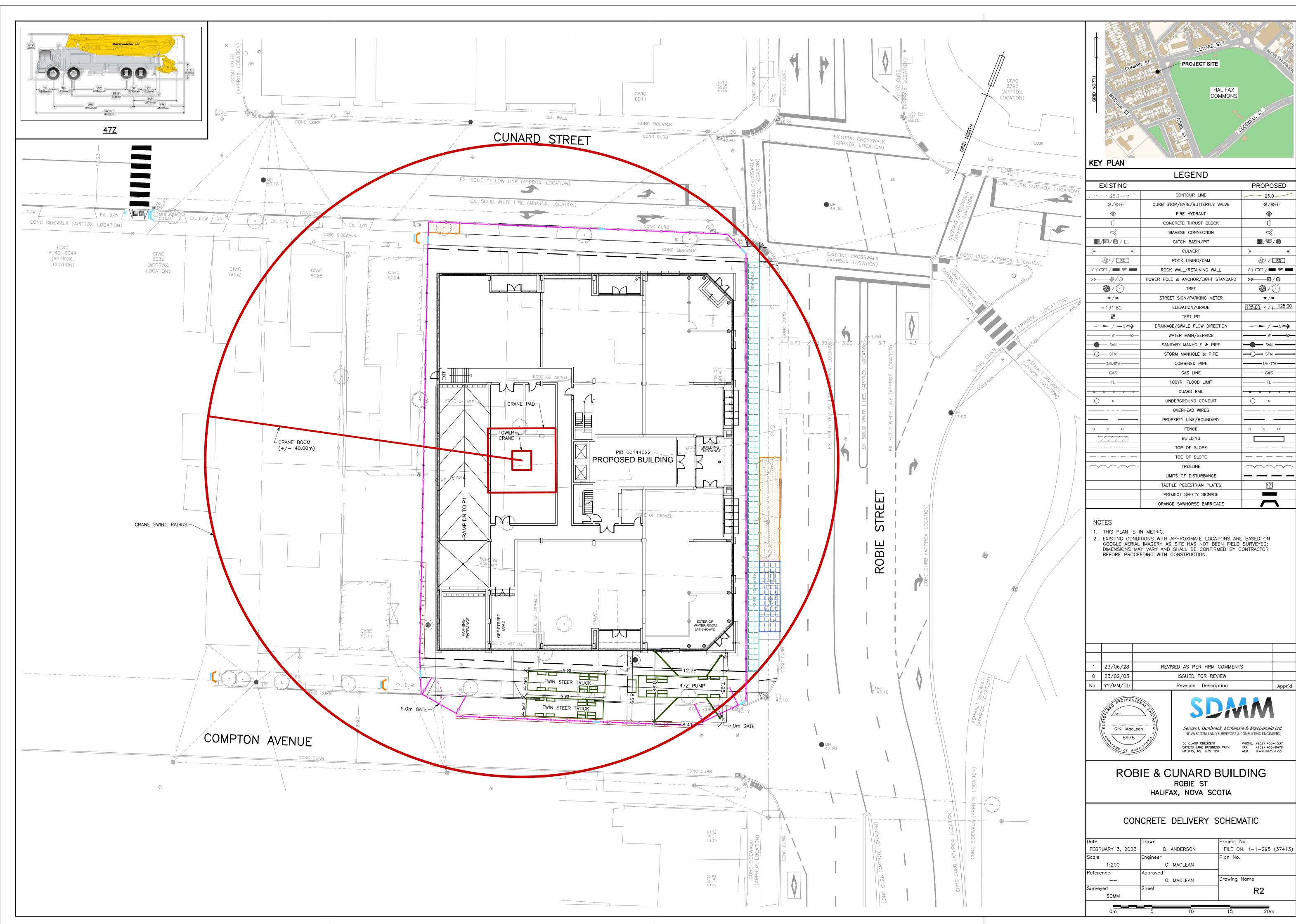


Appendix O – CMP's TCP & PMP Inspection Records

Project:	Location:				Phase:	Date:	Inspector:	
					N MAN	AGEMENT PLAN - INSPECT	TON CHECKLIST	
CMP Element Set-up per PMP? (			Condition?		Action Poquirod	Action Completed	Comments	
Civip Element	Yes	No	N/A	/A Good Bad		Action Required	Action completed	comments
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## Appendix P – Concrete Delivery Schematic



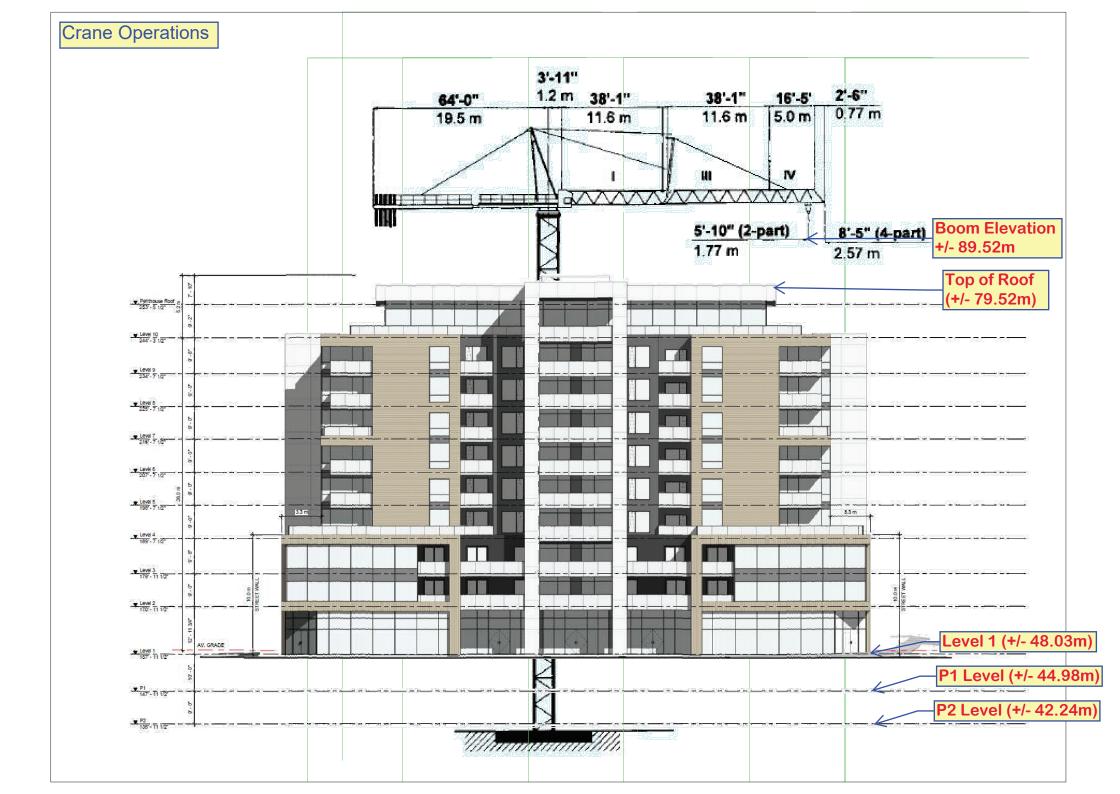
. 25.0	CONTOOL LINE	25.0
⊗/⊗BF	CURB STOP/GATE/BUTTERFLY VALVE	⊗/⊗BF
©	FIRE HYDRANT	ø
	CONCRETE THRUST BLOCK	٩
Ŕ	SIAMESE CONNECTION	4
	CATCH BASIN/PIT	■/⊠/⊘
)(	CULVERT	)(
O/ RD	ROCK LINING/DAM	80 / RD
CODO / ■ RW ■	ROCK WALL/RETAINING WALL	
$\rightarrow $	POWER POLE & ANCHOR/LIGHT STANDARD	>>₽/©
<b>@</b> /O	TREE	$\langle 0 / \odot \rangle$
▼/Φ	STREET SIGN/PARKING METER	᠊᠊ᠯ/ᢒ
× 131.82	ELEVATION/GRADE	125.00 × / + 125.00
	TEST PIT	
	DRAINAGE/SWALE FLOW DIRECTION	
W&	WATER MAIN/SERVICE	w&
SAN	SANITARY MANHOLE & PIPE	
——————————————————————————————————————	STORM MANHOLE & PIPE	
SAN/STM	COMBINED PIPE	SAN/STM
GAS	GAS LINE	GAS
FL	100YR. FLOOD LIMIT	FL
	GUARD RAIL	<u> </u>
c	UNDERGROUND CONDUIT	c
	OVERHEAD WIRES	
	PROPERTY LINE/BOUNDARY	
	FENCE	
	BUILDING	
· · · · · · ·	TOP OF SLOPE	· · · · · · · · ·
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	TREELINE	
	LIMITS OF DISTURBANCE	<u> </u>
	TACTILE PEDESTRIAN PLATES	
	PROJECT SAFETY SIGNAGE	
	ORANGE SAWHORSE BARRICADE	
		•

Date	Drawn	Project No.
FEBRUARY 3, 2023	D. ANDERSON	FILE ON. 1–1–295 (37413)
Scale	Engineer	Plan No.
1:200	G. MACLEAN	
Reference	Approved	
	G. MACLEAN	Drawing Name
Surveyed	Sheet	
SDMM		
0m	5 10	15 20m



Appendix Q – Crane Information





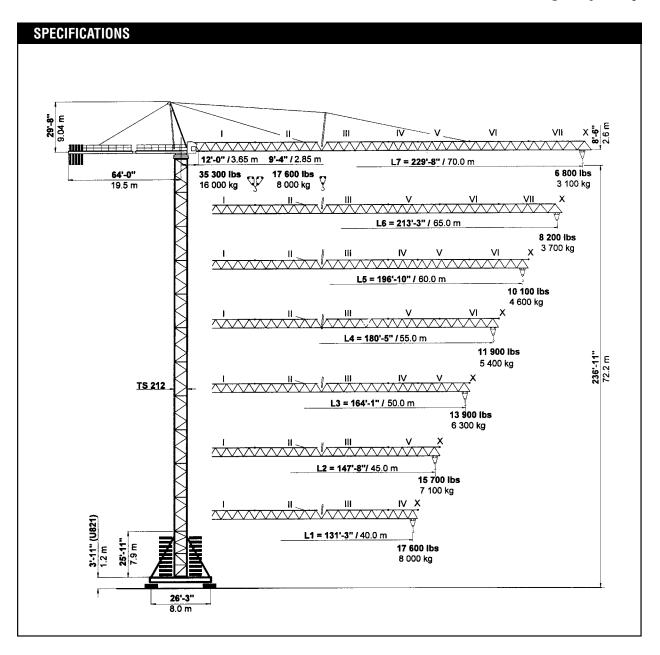


TEREX LIFTING **TOWER CRANE SALES • RENTAL** 

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<sup>™</sup>

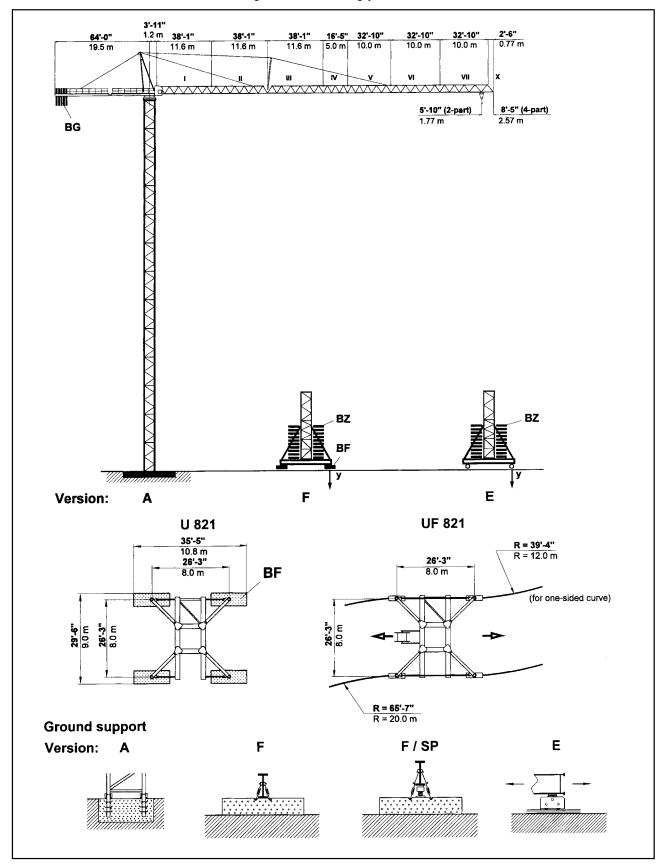
Machines shown may have optional equipment.





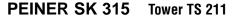


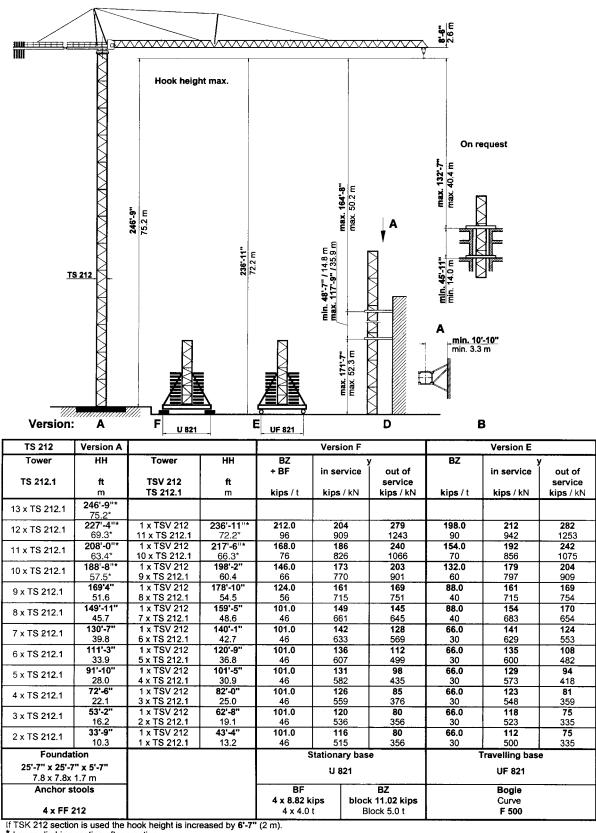
Combinations of tower section, hook heights, forces acting per corner, base ballast



Bigge

This information is for reference use only. Operators manual should be consulted and adhered to. Please contact Bigge Crane and Rigging Co. at 888-337-BIGGE or email towers@bigge.com for further information.





\* Lower climbing section after erection. TS 212.1 = 19'-4  $\frac{1}{4}$ " / 5.9 m

TSV 212 = 25'-11" / 7.9 m

TSK 212 = 6'-7" / 2.0 m



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A BİGGE

#### www.biggetowercrane.com

PEINER SK 315	Radius and Capacity
---------------	---------------------

	Jib	Max. capacity max.		Radius – ft./m Capacity – Ibs./mt 2-Part Line 🏹 max. 17,600 Ibs 5 max. 8.0 t															
	<b>₽</b> E	1 <b>7,600 lbs</b> 8.0 t	<b>75'-6''</b> 23	<b>82'-0''</b> 25	<b>98'-5"</b> 30	<b>114'-10''</b> 35	<b>131'-3"</b> 40	<b>141'-1''</b> 43	<b>147'-8</b> " 45	<b>157'-6''</b> 48	<b>164'-1"</b> 50	<b>173'-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	223'-1" 68	<b>229'-8"</b> 70
L7		<b>9'-4" - 96'-9"</b> 2.85 - 29.5 m	<b>17600</b> 8.0	17600 8.0	<b>17400</b> 7.9	14800 6.7	12800 5.8	<b>11900</b> 5.4	<b>11200</b> 5.1	10600 4.8	<b>10100</b> 4.6	9500 4.3	9000 4.1	<b>8600</b> 3.9	8200 3.7	7700 3.5	7500 3.4	7100 3.2	6800 3.1
L6		2.65 - 29.5 m 9'-4" - 105'-0"		17600		16100		13000		4.0	4.0	10400	9900	9300	8800	8600	8200	3.2	- 3.1
Ľ		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		17600		14600		13000	12300	11700	11200	10600	10100		0.7		
		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	180'-5"	9'-4" - 124'-8"	17600	17600	17600	17600	16800	15400	14800	13900	13200	12300	11900						
	55.0	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"		1	17600	•			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								
L2		9'-4" - 131'-11"		17600		17600		16500	15700										
		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													
<b>_</b>	40.0	2.85 - 40.0 m	8.0	8.0	8.0	8.0	8.0												
	ft	35,300 lbs				4	-Part l	ine 💎	)[7 n	nax. 3	5,300	) Ibs			R	adius -	2'-7"	(- 0.8	m)
	m	16.0 t							S n	1 nax. 1	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
		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		12'-0" - 52'-2"		21600		14600			10800	9900	9500	8800	8400	7700	7500	6800	6600		
		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					19800	16800			12300	11500			9700	9000	8600				
		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		12'-0" - 61'-0" 3.65 - 18.6 m		26000	21200 9.6	17900	15200 6.9	14100 6.4	<b>13200</b> 6.0	<b>12300</b> 5.6	11700	10800 4.9	10400						
	-	3.00 - 18.0 m 12'-0" - 63'-8"	13.0	11.8 27300	9.6 22300	8.1					5.3	4.9	4.7						
L3		12-0" - 63-8" 3.65 - 19.4 m	<b>30200</b> 13.7	12.4	10.1	18700 8.5	16100 7.3	14800 6.7	14100 6.4	12800 5.8	1 <b>2300</b> 5.6								
L2		12'-0" - 64'-0"		27600	22500				14100	5.0	5.0								
		3.65 - 19.5 m	13.8	12.5	10.2	8.6	7.4	6.8	6.4										
L1			31700	28700	23600		17000												
		3.65 - 20.2 m	14.4	13.0	10.7	9.0	7.7												

#### Speeds

FU 8-160/4	<b>10.2 HP</b> 7.5 kW							
SR 10-190/3	2 x 16.3 HP 2 x 12.0 kW							
K WB 120/4	<b>2 x 11.4 HP</b> 2 x 8.4 kW							
	480 V / 60 Hz / 3 ph							
		2-Part	▶ 444 fpm 134 m/min	<b>5 500 lbs</b> 2 500 kg	▶ 222 fpm 67 m/min	<b>11 000 lbs</b> 5 000 kg	Total motor output	~140
Type SR WB 66-		276 fpm 84 m/min	<b>9 300 lbs</b> 4 200 kg	► 138 fpm 42 m/min	<b>18 600 lbs</b> 8 400 kg	without SR 10-190/3	<b>НР</b> ~105	
80/4F		-	▶ 180 fpm 54 m/min	<b>13 900 lbs</b> 6 300 kg	▶ 90 fpm 27 m/min	<b>27 800 lbs</b> 12 600 kg		kW
[108 HP] [79 kW]			108 fpm 34 m/min	1 <b>7 600 lbs</b> 8 000 kg	54 fpm 17 m/min	<b>35 300 lbs</b> 16 000 kg	Connected power	170 kVA

#### Counterweight

Jib		L 1	L2	L 3	L4	L 5	L6	L 7
	BG	<b>30 000 lbs</b> 13 600 kg	32 200 lbs 14 600 kg	<b>36 600 lbs</b> 16 600 kg	<b>39 150 lbs</b> 17 750 kg	43 550 lbs 19 750 kg	41 350 lbs 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 (	it/m)	Weight	Volume
			1	b	h	lbs/t	ft <sup>3</sup> / m <sup>3</sup>
1	Jib Section III		<b>39.01</b> 11.94	<b>4.99</b> 1.52	<b>7.09</b> 2.16	<b>4 200</b> 1.92	<b>1 386</b> 39.2
2	Jib Section I Section IV Section V Section VI Section VII Jib tip X		<b>39.01</b> 11.89 <b>38.65</b> 11.78 <b>19.19</b> 5.85 <b>35.34</b> 10.77 <b>36.03</b> 10.98 <b>33.33</b> 10.16 <b>3.12</b> 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 4.99 1.52 5.02 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 1.62 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
	Turntable with slewing ring support	and cabin	<b>36.35</b> 11.08	<b>7.64</b> 2.33	<b>7.81</b> 2.38	<b>25 350</b> 11.50	<b>2 169</b> 61.4
3	Turntable with slewing ring supp	ort	<b>31.99</b> 9.75	<b>7.64</b> 2.33	<b>7.81</b> 2.38	<b>24 030</b> 10.90	<b>1 911</b> 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	134 8.4
5	Counterweight	BG	<b>3.94</b> 1.20 <b>3.94</b> 1.20	<b>1.64</b> 0.50 <b>1.64</b> 0.50	<b>9.32</b> 2.84 <b>12.11</b> 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	<b>10.00</b> 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	<b>513</b> 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	<b>11.48</b> 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.

#### 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

TT-106-1

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

We reserve the right to amend these specifications at any time without notice. The only warranty applicable is our stan-

dard written warranty applicable to the particular product and sale. We make no other warranty, expressed or implied.



Litho in U.S.A.

5K499J60

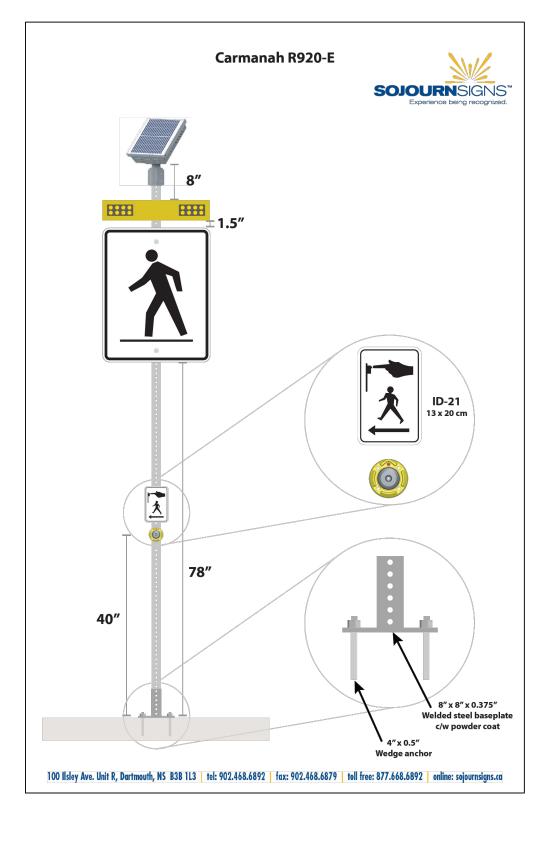


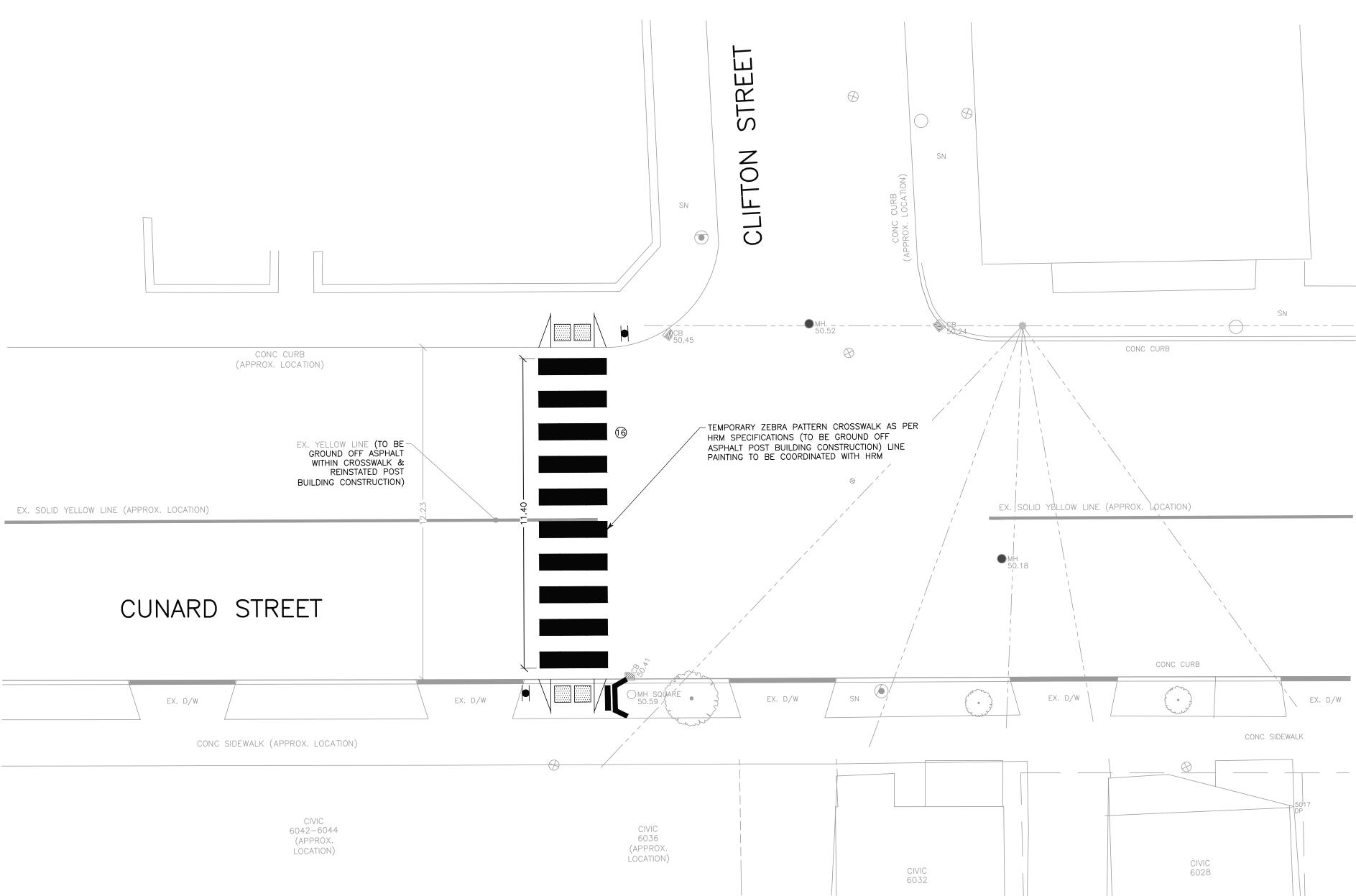




Appendix R – Line Painting Schematic

PAVEMENT MARKINGS						
IDENTIFICATION TYPE		WIDTH	COLOUR	QUANTIT		
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	N/A		
4	DOUBLE CENTRELINE	100 mm x 2 NOT TO BE PAINTED THROUGH INTERSECTIONS	YELLOW	N/A		
5	SOLID @ WITH BROKEN 3×6 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 3×6	100 mm	WHITE	N/A		
9	BIKE LANE DASHED LINE 1.5×1.5	100 mm	WHITE	N/A		
10	НАТСН	100 mm LANE LINES WITH 600 mm HATCH LINES, 6.0 m SPACING	YELLOW	N/A		
1)	НАТСН	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	11.40		





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





	CUNARD ST				
AUNAR	CUNARD ST PROJECT SITE				
CRID NORTH	H				
	HALIFAX COMMONS				
CRID 1	COMMONS	OSMEL SI			
R		SIN			
All and a second	R	SWELL			
THE	ROBE ST C	000			
		•			
KEY PLAN		1			
	LEGEND				
EXISTING		PROPOSED			
25.0	CONTOUR LINE	25.0			
⊗/⊗BF	CURB STOP/GATE/BUTTERFLY VALVE	⊗/⊗BF			
©	FIRE HYDRANT	<b></b>			
	CONCRETE THRUST BLOCK				
	SIAMESE CONNECTION				
	CATCH BASIN/PIT				
	ROCK WALL/RETAINING WALL POWER POLE & ANCHOR/LIGHT STANDARD				
	STREET SIGN/PARKING METER	▼/�			
× 131.82	ELEVATION/GRADE				
	TEST PIT				
	DRAINAGE/SWALE FLOW DIRECTION				
W&	WATER MAIN/SERVICE				
SAN	SANITARY MANHOLE & PIPE	SAN			
STM	STORM MANHOLE & PIPE				
SAN/STM	COMBINED PIPE				
GAS	GAS LINE	GAS			
FL	100YR. FLOOD LIMIT	FL			
	GUARD RAIL				
c	UNDERGROUND CONDUIT	c			
	OVERHEAD WIRES				
	PROPERTY LINE/BOUNDARY				
	FENCE				
	BUILDING				
· · · · · · ·	TOP OF SLOPE				
· · · ·	TOE OF SLOPE				
	TREELINE	$  \frown			
	LIMITS OF DISTURBANCE				

## <u>NOTES</u>

1. THIS PLAN IS IN METRIC.

2. EXISTING CONDITIONS WITH APPROXIMATE LOCATIONS ARE BASED ON GOOGLE AERIAL IMAGERY AS SITE HAS NOT BEEN FIELD SURVEYED; DIMENSIONS MAY VARY AND SHALL BE CONFIRMED BY CONTRACTOR BEFORE PROCEEDING WITH CONSTRUCTION.

TACTILE PEDESTRIAN PLATES

PROJECT SAFETY SIGNAGE ORANGE SAWHORSE BARRICADE

APPROVED BY

PROFESSIA

G.K. MacLean

8978

OF NOVA

DATE

TRAFFIC AUTHORITY DATE FOR THE APPROVAL OF A CROSSWALK ONLY. ALL OTHER ASPECTS OF THIS TEMPORARY TRAFFIC CONTROL PLAN MUST FOLLOW THE TEMPORARY CONTROL MANUAL, LATEST EDITION.

23/02/03	ISSUED FOR REVIEW
YY/MM/DD	Revision Description



Appr'd

## **ROBIE & CUNARD BUILDING** ROBIE ST HALIFAX, NOVA SCOTIA

## LINE PAINTING SCHEMATIC

Date	Drawn	Project No.
FEBRUARY 3, 2023	D. ANDERSON	FILE ON. 1-1-295 (37413)
Scale	Engineer	Plan No.
1:100	G. MACLEAN	
Reference	Approved	
	G. MACLEAN	Drawing Name
Surveyed	Sheet	R3
SDMM		
	_	
0m 1	2 4 6	8 10m