Oxford & North Street

Excavation and Construction

Prepared by Geoff MacLean, P.Eng.

Job No. 35406

CONSTRUCTION MANAGEMENT PLAN

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REVISION #	DATE	DESCRIPTION





36 Oland Crescent Bayers Lake Business Park Halifax, Nova Scotia B3S 1C6 www.sdmm.ca t: 902 455-1537 f: 902-455-8479 c: 902-789-6374 e: gmaclean@sdmm.ca



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Prepared by

G.K. MacLean, P. Eng.

In consultation with the developer, contractor and traffic control company.



Section 1: Introduction

1.1: Project Description and Objectives

Ardmore Hall Limited are planning to redevelop the existing lands on the corner of Seaforth, Oxford and North Streets, Halifax, Nova Scotia. The planned building will be a 7 storey 128-unit multi residential building with 2 levels of underground parking accessed off Seaforth Street. The land (civic 6389, 6395 & 6399 North Street) previously housed three residential buildings, demolished in preparation for the new apartment building project. Where demolition of the existing buildings was addressed under a separate CMP, this CMP has been prepared to address excavation, services and building construction.

The building foundation is planned to be tight to the street line, with two levels of underground parking, deep excavations of +20ft are required that will infringe on the HRM right-of-way. For public safety during excavation and construction, we are proposing to hoard off the sidewalk and a portion of the street lanes directly adjacent to the project. This will result in unmetered parking to be closed on the project side of Seaforth Street, North and Oxford Streets as temporary altered centrelines are anticipated. Rerouted pedestrian routes along North Street are anticipated to remain, while the sidewalks along Oxford and Seaforth Streets will be closed with signage directing pedestrians to use sidewalks opposite the street accessed by a temporary crosswalk at the intersection of Summit Street. We are planning temporarily relocate the existing bus stop on Oxford Street to the front of civic 2663 Oxford, as required by the HRM while maintaining the bus stop on North Street, with protected scaffold to surround.

The development borders residential properties to the east which front on Seaforth and North Streets. To the north across Seaforth are residential properties. South of the property across North Street is the Oxford School and to the west of the site opposite Oxford Street are residential properties and the North Street Gospel Hall. All neighbouring properties will remain undisturbed throughout construction and all neighbours will be notified and updated on construction ahead of time.

This CMP document is intended to be an evolving document to help guide the project team to mitigate impacts to the adjacent community before they arise and to address unforeseen issues. SDMM, together with the developer, contractor, and traffic control company, have prepared this Construction Management Plan (CMP) following HRM's CMP (2020) guidelines and administrative order (2018-005-ADM) in an effort to reduce potential negative impacts on the surrounding community, due to construction activities for this project.

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



1.2: Project Contact Information

The project team for the proposed development consists of:

Role	Name	Contact	Address	Phone
Developer	Ardmore Hall Limited	George Giannoulis	150 Solutions Drive,	(902) 802-6588
			Suite 100, Halifax, NS	24 Hour Emergency
			BOS 0E5	Contact
Site Contractor	Atlantic Road	Greg MacDonald	6 Belmont Avenue,	(902) 830-6411
	Construction and		P.O. Box 89	
	Paving		Eastern Passage, NS	
			B3G 1M7	
Traffic Control	Frontline Traffic	Phil Pruneau	6 Belmont Avenue,	(902) 818-5548
Company	Services		P.O. Box 89	
			Eastern Passage, NS	
			B3G 1M7	
Rodent Control	Rentokil Pest Control		51 Duke Street, Bedford,	(902) 835-2304
Company			NS B4A 2Z2	

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	Complete	-	complete	n/a
Demolition	Complete	-	complete	n/a
Excavation	May 1, 2021	-	Aug 1, 2021	3 Months
Substructure	Aug 1, 2021	-	Jul 1, 2021	2 Month
Superstructure	Jul 1, 2021	-	Dec 31, 2022	18 Months
Flat Works	Sep 1, 2022	-	Sep 30, 2022	1 Month
Service installs	Jul 1, 2021	-	Jul 31, 2021	1 Month
Service Abandonments	Jul 1, 2021	-	Jul 31, 2021	2 days

2.2: Key Dates

٠	Take-o	ver of encroachment	May 2021
٠	Finish encroachment		December 2022
٠	Duration of encroachment:		19 months
٠	Tempo		
	0	Crane install	August 2021
	0	Service work	July 2021
	0	Crane removal	August 2022

2.3: Hours of Work

Work will generally take place during normal working hours as outlined in HRM's Noise By-Law and Traffic Control Manual Supplement; these are noted below.

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



Although work is not expected to be required outside of the times listed above, if, for any reason, work is anticipated to be required outside of these hours, the contractor will apply to HRM for approval 5 business days (minimum) in advance of such work and obtain approval prior to proceeding. It is noted that HRM's Noise By-Law cannot be altered without HRM council approval; work must adhere to the Noise By-Law.

Section 3 – Relevant Regulations & Guidelines

3.1: Occupational Health & Safety Regulations

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

- a) National Building Code of Canada, as adopted and modified under the Building Code Act and the Nova Scotia Building Code Regulations made under that Act;
- b) Nova Scotia Occupational Health and Safety Act, and the Nova Scotia Occupational Safety General Regulations made under that Act;
- 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 Traffic Control Plan (TCP) has been prepared by the traffic control company and is provided in the Appendix.



Throughout all phases of construction two-way vehicular traffic will be maintained. Only during installation of the tower crane, service work and removal of the tower crane do we anticipate temporary lane closures to vehicles being required. We note 3.5m wide travel lane widths are required to accommodate bus traffic on North and Oxford Streets.

Spotters will be required on the ground to accommodate deliveries. Please refer to the appendices for required traffic control plans.

4.2: Haul Route and Staging Areas

The truck Haul Route Plan has been prepared by the traffic control company and is provided in the appendix. The selected route is intended to minimize traffic congestion and maximize pedestrian safety. During the excavation and construction phase vehicles will enter and exit the site at the gate location which will be clearly marked for function.

We anticipate material and concrete delivery trucks driving onto private property. These deliveries shall be contained within the encroachment area, refer to appendix for 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.

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 on street public parking adjacent to the project on Seaforth Street will be blocked off to protect the tree canopy from trucks accessing the site. This will close on street parking opposite of the site on Seaforth Street to maintain two-way traffic near the encroachment. On North Street adjacent to the project, an un-metered on street parking fronting civic 6389 will be closed to allow a temporary asphalt ramp to be installed for access to the on street pedestrian route around the encroachment and on Oxford in front of civic 2663, un-metered on street parking will be closed to provide room for the relocated bus stop required by the HRM.

It is noted that passenger vehicles are not permitted to park within any encroachment areas. To minimize parking requirements in adjacent neighbourhoods, on-site workers will rent parking spaces from adjacent parking structures and workers will be encouraged to carpool or rely on public transit.

Alternate public parking is not proposed as part of this project and as a result their will be a net loss of parking in the local area.

4.6: Bus Stops

There are two bus stops directly adjacent to the project, one on Oxford Street and the other on North Street. The Bus stop on North Street is planned to remain with covered scaffold protecting the current bus shelter. However, the bus stop on Oxford Street will need to be temporarily relocated to the front of civic 2663 Oxford and reinstated post construction in consultation with HRM transit. Refer to the appendix for the temporary crosswalk and bus stop plan.

4.7: Hazard Assessment

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



Section 5: Pedestrian Management

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

Throughout excavation and construction, the project will close the sidewalk, a portion of the street lane and on street parking in front of the development. This is to ensure that limits of excavation, building construction and deliveries are kept a safe distance from pedestrians. A temporary on street pedestrian route will be provided alongside the encroachment on North Street. While sidewalks on Oxford and Seaforth Streets will be closed with signage suggesting pedestrians use the alternate sidewalks across these streets.

The existing marked crosswalk at the North and Oxford intersection will encourage pedestrians to use the sidewalk opposite the site. While pedestrian on Oxford and Seaforth will be encouraged to cross Oxford Street at the Summit Street intersection temporary crosswalk as required by the HRM. Refer to the appendix for the temporary crosswalk and bus stop plan.

5.1: Pedestrian Protection

Pedestrians will be protected by physically distancing them from the project. A combination of rigid construction fencing, and F-type concrete barriers will delineate the encroachment area separating the project from pedestrians. Rigid fencing will be covered with translucent covering to block view of the site and will be anchored to the ground.

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 Canadian National Institute for the Blind (CNIB) requirements and as outlined on their 'Clearing Our Path' website; various items will be incorporated into the pedestrian management signage and barriers. Such as, high visibility contrasting colours with appropriate font types (mix of upper and lower-case lettering), font sizes (between 16mm to 51mm) and sign colours (orange background with black lettering or white background with black lettering).

The contractor will use bright orange sawhorse barricades complete with bold-font signage to identify sidewalk termination points. Sawhorse barriers will incorporate lower cross members, painted and marked consistent with the rest of the sawhorse, these added cross members will be placed near the ground to aid visually impaired persons using a cane. Reflective tape will also be placed on the ends of fencing, hoarding, sawhorse barricades, and concrete barriers to help delineate pedestrian routes and disruptions. Signage and tape colours will vary but will comply with the colour/brightness contrast as outlined by the CNIB website; examples are black/white, orange/black or dark red/white combinations.

5.5: Accessibility

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



5.6: Hazard Assessment

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

5.7: Pedestrian Management Plans Rendering (PMPR) Signage

The need for a rendered map displayed for pedestrians showing the detoured pedestrian routes are 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 given the location.

Section 6: Encroachments & Disruptions

For public safety during construction, we are proposing that the project compound be limited to the encroachment area. This will incorporate the public sidewalk, a portion of the street lane and the unmetered on-street parking spaced adjacent to the project. This will move pedestrians to the temporary on street sidewalk around the encroachment on North Street and to the opposite sidewalk on Oxford and Seaforth Streets.

The encroachment is planned to be delineated by translucent rigid fencing on North Street with F-type concrete jersey barriers separating traffic from the temporary on street pedestrian route, while interlocking F-type concrete barriers complete with translucent rigid fencing will delineate the remainder of the encroachment. This encroachment is to keep the public away from the excavation zone of influence as well as provide additional room for form workers and deliveries within the encroachment.

The construction fencing with translucent covering will be anchored to the ground to prevent unintentional movement or overturning due to snow and wind loads.

It is noted that this fencing shall **not** be anchored to the sidewalk, **nor** shall the legs of the modular fencing extend onto the sidewalk as this creates an unacceptable tripping hazard which must be avoided. Throughout the project, fencing will be situated to not obstruct vehicle sight lines.

Should any utility or traffic disruptions be required, the contractor will first apply to HRM for approval, a minimum of five (5) business days in advance of such work and will then notify neighbours of these disruptions in a timely fashion.

6.1: Demolition

The demolition phase of this project was addressed under separate CMP document.

6.2: Site Excavation

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



6.3: Site Services Connection

This includes installation of new water and sewer laterals to their respective mains as well as decommissioning existing laterals which will be abandoned. 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.

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

6.4: Construction Management Plan Element Inspection and Maintenance

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

6.5: Changes to the Construction Management Plan

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

Section 7: Environmental Factors

7.1: Damage to HRM Infrastructure

Existing sidewalks within the encroachment area will be completely replaced. It is anticipated that sidewalks across the street will not be impacted by excavation or other construction activities. However, while efforts will be made to avoid damage, it is anticipated that some 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 31st or prior to May 1 in which case permanent reinstatement will be completed by June 15 of the following construction season.



7.2: Protection of Trees

Trees on private property that will be removed to make way for the planned building. However, there are several HRM street trees within the public right-of-way directly adjacent to the project site that must be protected. On North Street there are two significant trees directly in front of the project with one small diameter tree at the eastern property corner and another significant tree adjacent, being in front of civic 6385. On Seaforth Street there are two significant trees in front of the project with a small diameter tree near the eastern property corner, adjacent to Civic 6385. 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), which defines the required Tree Protection Zone (TPZ) that must be delineated with snow fencing and protected from construction activities. Refer to HRM tree protection detail in the appendix.

We note that the project driveway will require that the small diameter tree on Seaforth Street be removed as the driveway crosses the existing tree lawn in close proximity to the tree trunk. This driveway also crosses the TPZ of the closest significant tree west of the planned driveway.

The developer met with HRM Urban Forestry and Development Engineering on site to review these various street trees and discussed plans for construction. Based on this site meeting we understand HRM prefers that the significant trees remain with TPZ respected however tree pruning will be permitted. As discussed on site the TPZ limits will be fenced on site and along Seaforth the curb will be lined with barriers to keep delivery trucks away from these trees and prevent deliveries taking place between the trees. Additionally, we understand that a pedestrian access deck spanning between the existing sidewalk and curb on North Street is required to protect the existing tree lawn from anticipated pedestrian traffic as they access the relocated pedestrian route.

At this time, a tree compensation agreement has not been established.

7.3: Line Painting and Temporary Crosswalks

A temporary crosswalk and altered centrelines are planned for this project. Oxford and North Streets will require temporary line painting. Please refer to the appendix for the required plans.

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 entrances to trap sediment. Where the developer plans to utilize the roadway for their encroachment the developer is responsible to clear snow from the street side of the jersey barriers.

7.5: Protection from Inclement Weather

To protect the public from construction debris during inclement weather, the project site will be enclosed by fencing complete with dust control covering, 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. The contractor will be responsible for maintaining these silt traps and cleaning them as required. Storm water collected inside the project site will be directed into temporary stormwater settling ponds situated within private property to allow clean water to be pumped into the existing public storm water systems in accordance with 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 site excavation.

7.7: Noise, Dust and Emission Control

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, who has established a Rodent Control Plan (RCP) to help mitigate rodent movement prior to and during construction. The RCP applies to all project phases with the goal of preventing movement of rodents off-site to find safe refuge in adjacent areas. The RCP will consist of a baiting and monitoring program. Bait stations (traps) will be placed as outlined in the NPMA Pest Management Standards for Food Processing & Handling Facilities.

The RCP will help to lower the number of active rodents in the project area. Bait stations are set 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, and Gates

The encroachment will be delineated using rigid chain link fencing and concrete F-type jersey barriers which may be complete with rigid fencing secured to the jersey barriers, total height of stand alone fencing or concrete barrier with fencing will be 1.8m or 6ft as per the noted administrative order. This fencing will be covered with a translucent 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. Construction traffic will utilize the proposed gates, gate will not be screened for safety reasons.

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



Throughout the project, fencing will be situated to not obstruct vehicle sight lines. Gates are to swing open away from the street into site. Gates may be sliding, swing gates or removable fence panels, however, must remain closed when not in use.

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

8.2: Snow removal

The developer will be responsible to remove snow and ice as required to ensure that emergency access is maintain to the project site, this includes temporary on street sidewalk and communications boxes. 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 developer will clear snow from outside the jersey barriers to keep the edge of the vehicle travel lane free and clear of snow and ice build up. The developer will clear snow along the altered pedestrian route on north Street, maintaining 1.5m clear space for pedestrians, this includes the pedestrian route access ramp and deck spanning the tree lawn on North Street.

8.3: Emergency Access & Egress

The site will be accessible through gates. These gates are the only locations that will receive equipment/materials during construction 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.

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

8.4: Hoarding Aesthetics

The site hoarding will resemble that shown in the appendix; encroachment fee reductions are not anticipated.

8.5: Sight Lines

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

8.6: Project Information and Contacts

To encourage communication between the project team and the public, contact information will be provided on Project Information Boards; these will be posted prominently around the project site on the fencing; refer to the appendix for a copy of the Project Information Board and the Encroachment Plan for the planned locations. Refer to the signage specification within the appendix describing the required size, materials, mounting hardware, etc. of these signs.



Section 9: Lifting, Hoisting, and Crane Operations

9.1: Crane Use Overview

This project will incorporate a tower crane, this crane will be stationed within the project site and will be operated under the direct supervision of a licensed crane operator employed by the formwork contractor. The approximate location of the crane tower is shown in the appendix.

It is anticipated that the crane will be assembled and disassembled from within a temporary road closure as per the TCP found in the appendix.

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

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

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

9.2: Transport Canada and Nav Canada Regulations

There are two registered aerodromes in the Halifax region; Halifax International Airport and Canadian Forces Base Shearwater Airfield. According to Transport Canada regulations, the project site is outside of the lands to which regulations for these two aerodromes apply.

9.3: Aerodromes

There are several heliport approaches in the Halifax region; both Emergency Hospitals (QEII and IWK) as well as Point Pleasant Park. Given the location of the project site relative to these various approaches we understand Transport Canada notice does not apply.

Section 10: On-Site Safety and Security

10.1: Site Safety and Security Overview

The contractor will adhere to all Occupational Health & Safety requirements throughout the completion of this project. At a minimum, the following safety protocols will be utilized to further enhance site safety and security:

- a) All workers will be required to have proof of up-to-date safety training;
- a) Personal protective equipment (PPE) will be required for all personnel on site;
- b) Adequate signage will be placed outside the hoarding, which will warn of hazards that may exist;
- c) Gates will be locked and the perimeter fencing secured to provide security against public access during off work hours and will be monitored during operation;
- d) Hoarding will clearly state "No Trespassing Construction Personnel Only" & PPE requirements will be clearly identified (e.g., "Hard Hats and Safety Footwear Must Be Worn Beyond This Point");
- e) Regular safety inspections will be conducted to ensure suitability of hoarding and other safety devices;
- f) Emergency contact information to be prominently posted as per the Project Information Board.



10.2: Material Handling: Loading, Unloading, Delivery and Storage

The contractor will adhere to the procedures stipulated in the Haul Route Plan for delivery of materials. Delivery vehicles will use the designated gates for entry and exit. Timing of deliveries will be coordinated to have the least possible negative impact on regular traffic. The staging and delivery area will be housed on private property within the hoarding limits.

10.3: Emergency Access & Egress

The site will be accessible through gates stationed at an existing driveway and an additional gate at the intersection of Oxford and Seaforth Streets to facilitate construction vehicle access. These gates are the only locations that will receive equipment/materials during construction. This gate will be clearly marked for function. In cases of emergencies, on-site workers will exit the project site through this gate. This gate will remain 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.

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 no adjacent existing fire hydrants and as such they will remain outside the project area and will be protected from construction activities. These fire hydrants, along with any existing adjacent fire department connections (Siamese connections) will be accessible to firefighters throughout all phases of the project.

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

Section 11: Pre-Construction Consultation & Meeting

11.1: Pre-CMP Community Consultation

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

11.2: Project Information and Contacts

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



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

11.3: Preconstruction Meeting

Prior to construction the developer, contractor and traffic control company will attend a pre-construction meeting with HRM staff to review the CMP document on site. HRM's engineering technician will confirm the date and time of this meeting; and may 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 developer, contractor, or traffic control service provider.

Regards,

Servant, Dunbrack, McKenzie & MacDonald Ltd.

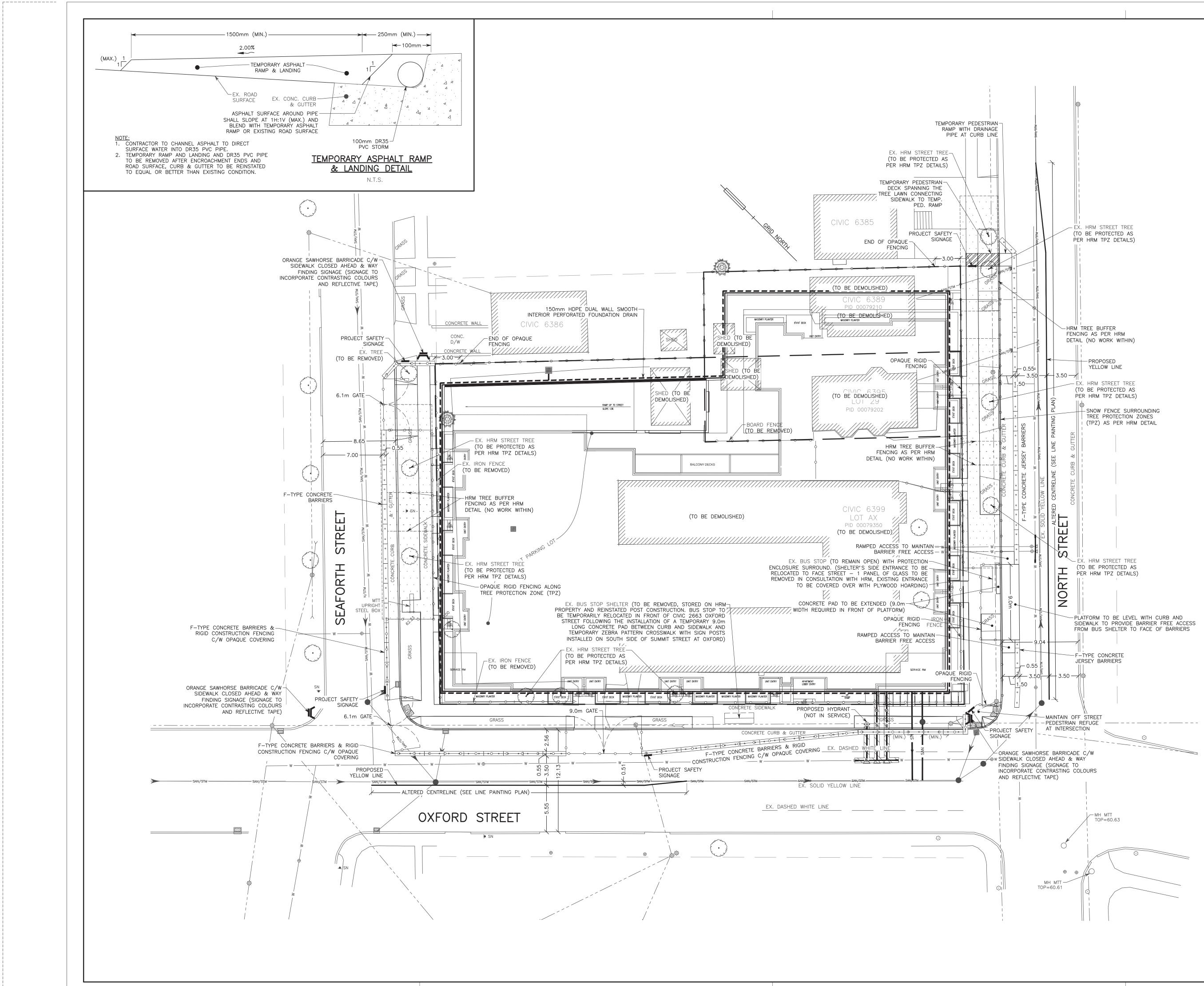
Geoff MacLean, P.Eng. Project Engineer Z:\SDMM\35000-35999\35400\35406\CMP\35406 Construction (Rev 1)\Oxford and North St. - CMP (Rev 1) - 35406.docx

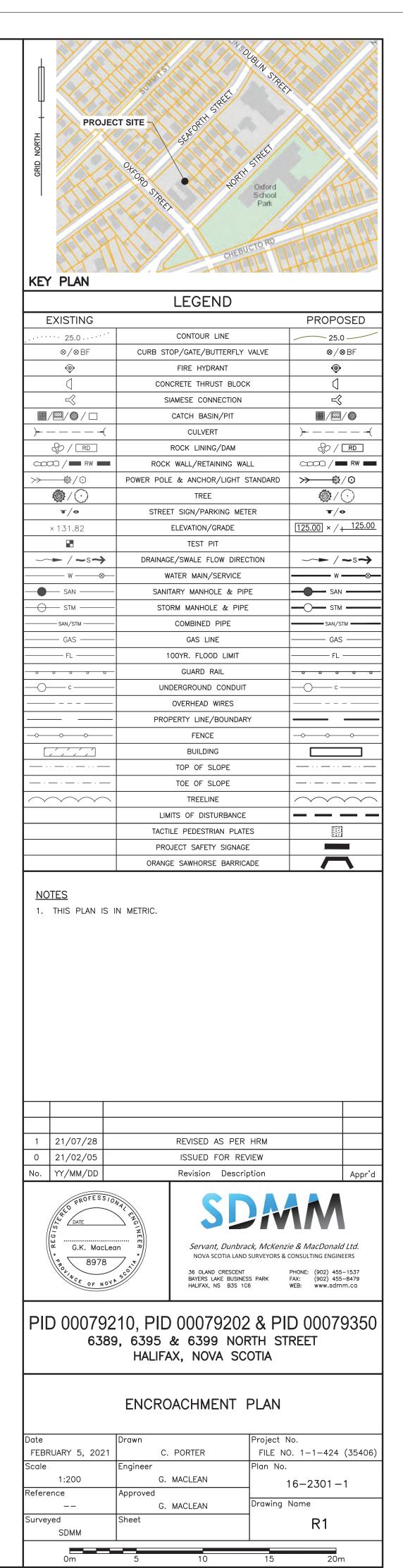


APPENDIX



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Appendix A – Encroachment Plan
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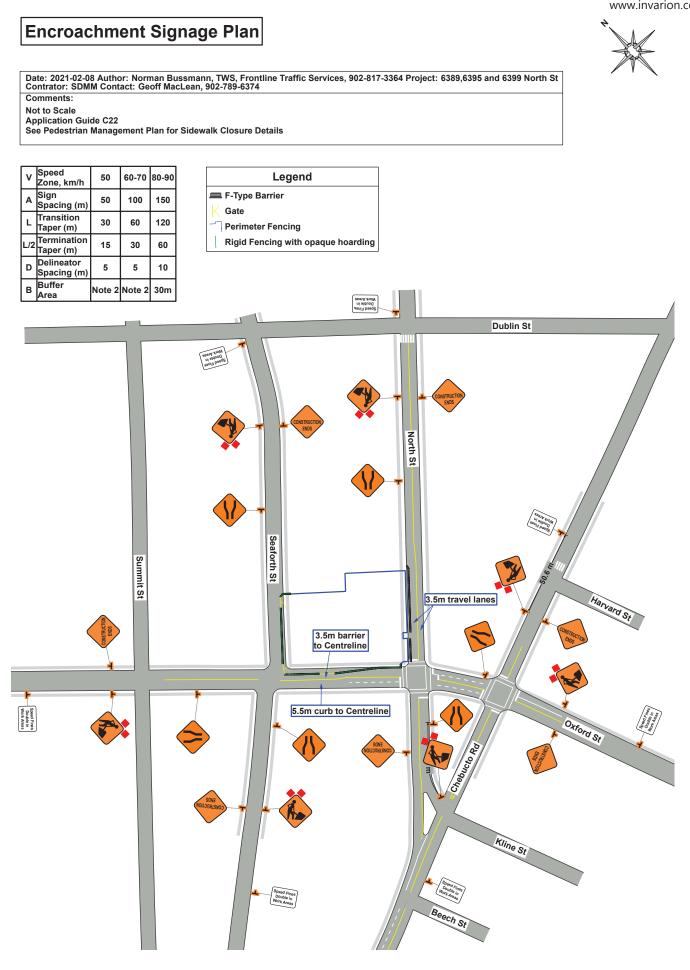




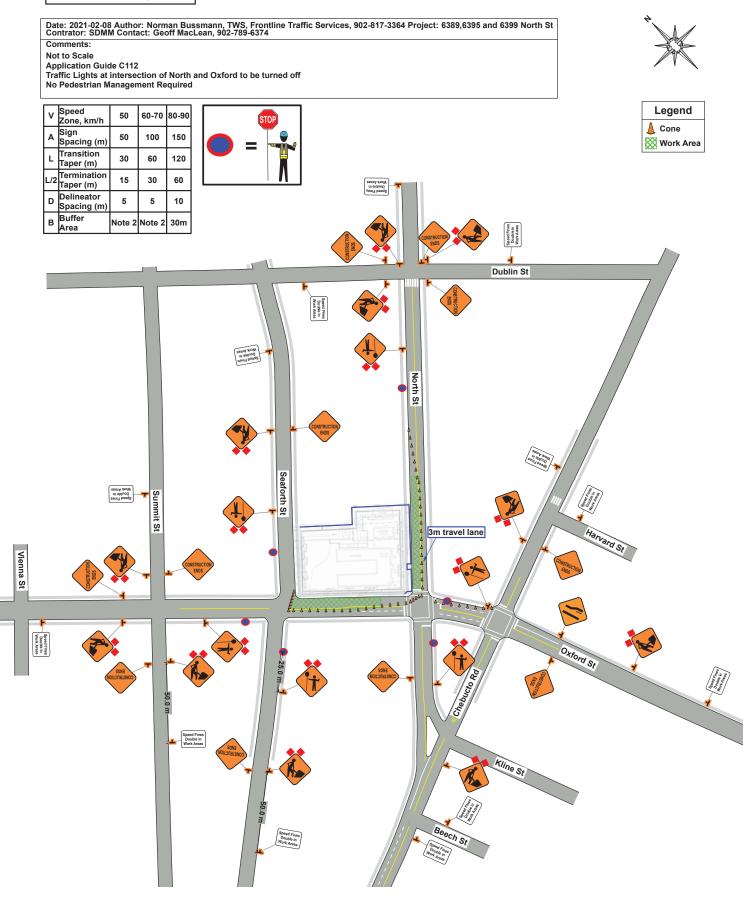
Appendix B – Traffic Control Plan (TCP)

- 1 Encroachment Signage Plan TCP
- 2 Paint Line Marking Plan TCP
- 3 Barrier Install TCP
- 4 Service Lateral TCP
- 5 Crane install & removal TCP

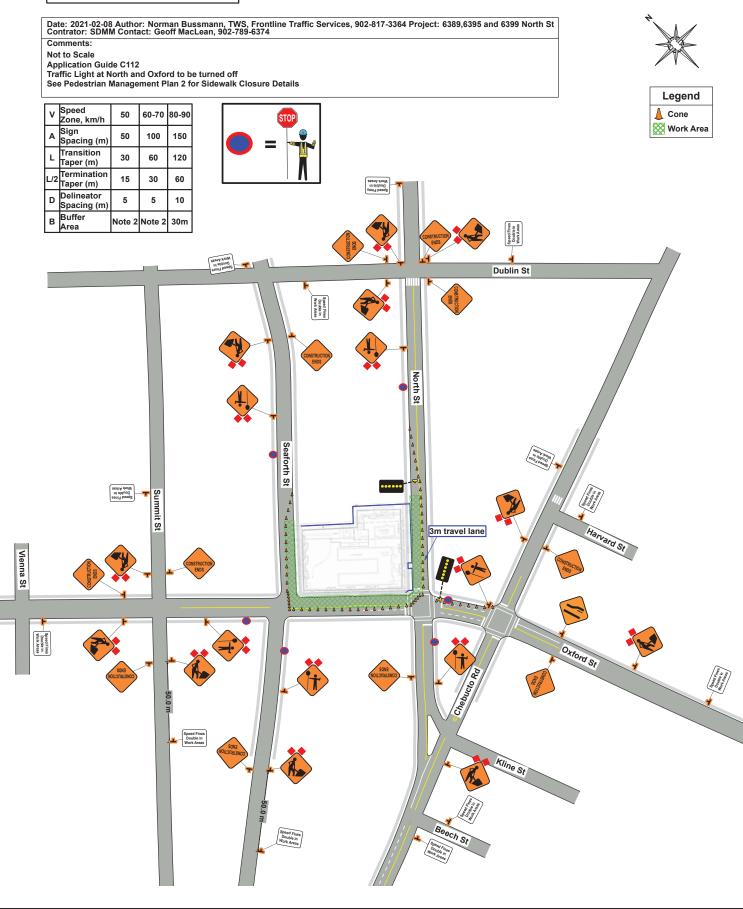


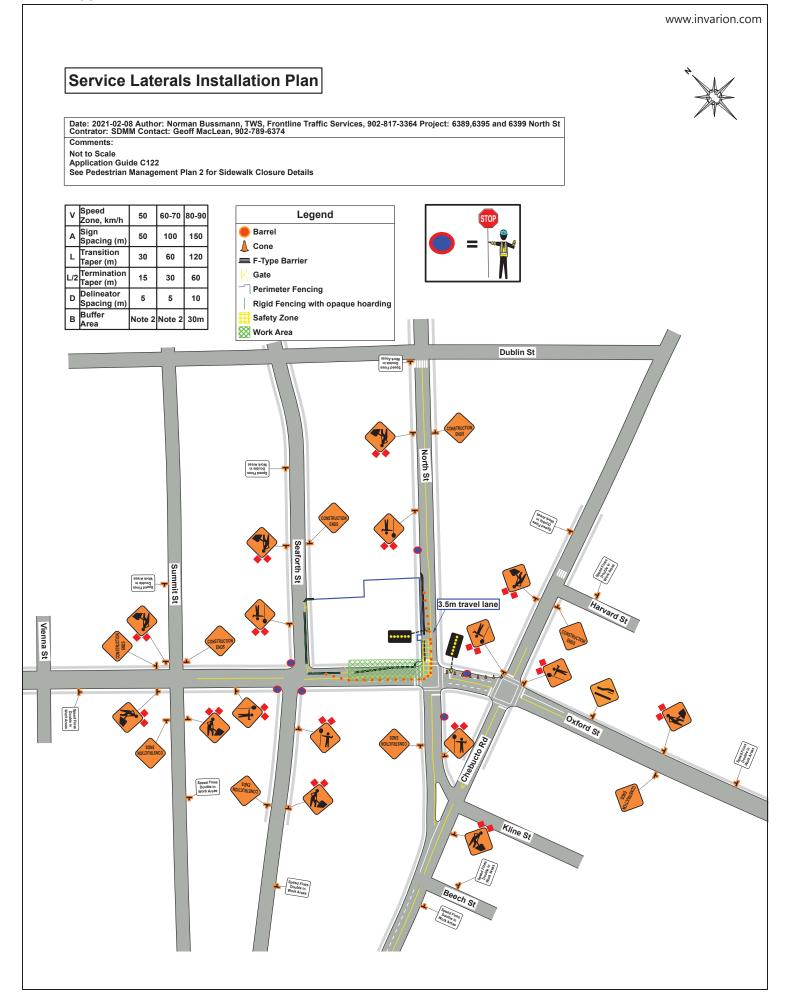


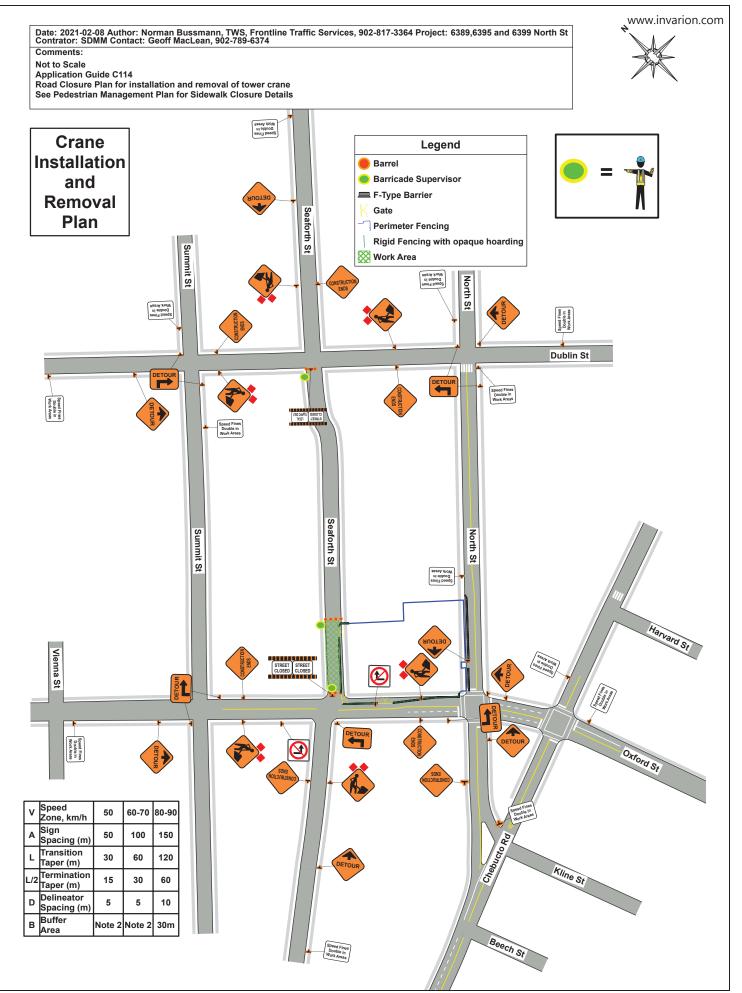
Line Painting Plan



Barrier Installation Plan





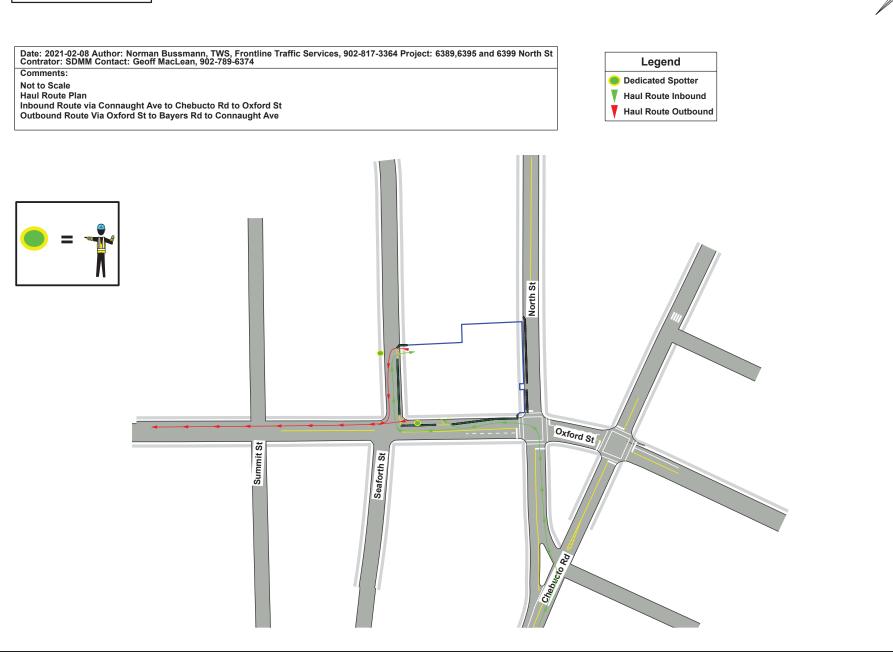




Appendix C – Haul Route Plan

- 1 General Haul Route Plan
- 2 Concrete Delivery Haul Route Plan

Haul Route Plan



Concrete Delivery Haul Route Plan



Date: 2021-02-08 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 6389,6395 and 6399 North St Contrator: SDMM Contact: Geoff MacLean, 902-789-6374 Legend Comments: Inbound route for Oxford St Not to Scale Application Guide C33 Inbound Route for Seaforth St TCP to stop and hold traffic on Oxford Street when mixer trucks exit from site Outbound Route from Oxford St TC-21 to be added to encroachment signage Dedicated spotters to be used on Seaforth St to back mixers into site, and to back pump truck out. Outbound route from Seaforth Inbound for Seaforth St via Windsor St to Seaforth St **Reversing Trucks** Outbound from Seaforth via Oxford St to Bayers Rd Inbound for Oxford St via Windsor St to Bayers Rd to Oxford St Outbound from Oxford St to North St to Chebucto Rd to Connaught Ave Summit St Oxford St Seaforth St North St hebucto Ra



Appendix D – Pedestrian Management Plan

- 1 Oxford and Seaforth Sidewalks Closed PMP 1
- 2 North, Oxford and Seaforth Sidewalks Closed PMP 2





Pedestrian Management Plan

Date: 2021-02-08 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 6389,6395 and 6399 North St Contrator: SDMM Contact: Geoff MacLean, 902-789-6374

Comments:

Not to Scale Pedestrian Management Plan Long duration closure of sidewalks on Oxford St and Seaforth St.

Legend Pedestrian Route





Pedestrian Management Plan 2

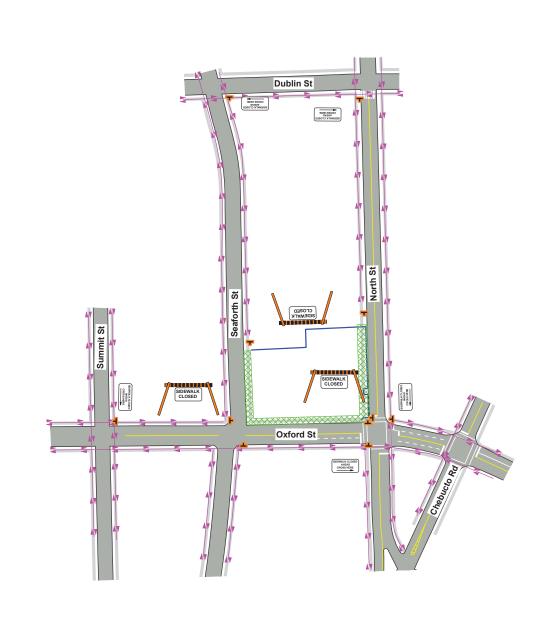
Date: 2021-02-08 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 6389,6395 and 6399 North St Contrator: SDMM Contact: Geoff MacLean, 902-789-6374

Comments: Not to Scale

Pedestrian Management Plan 2 This Plan to be used for Barrier Installation Plan For Closure of sidewalks on North St, Oxford St and Seaforth St

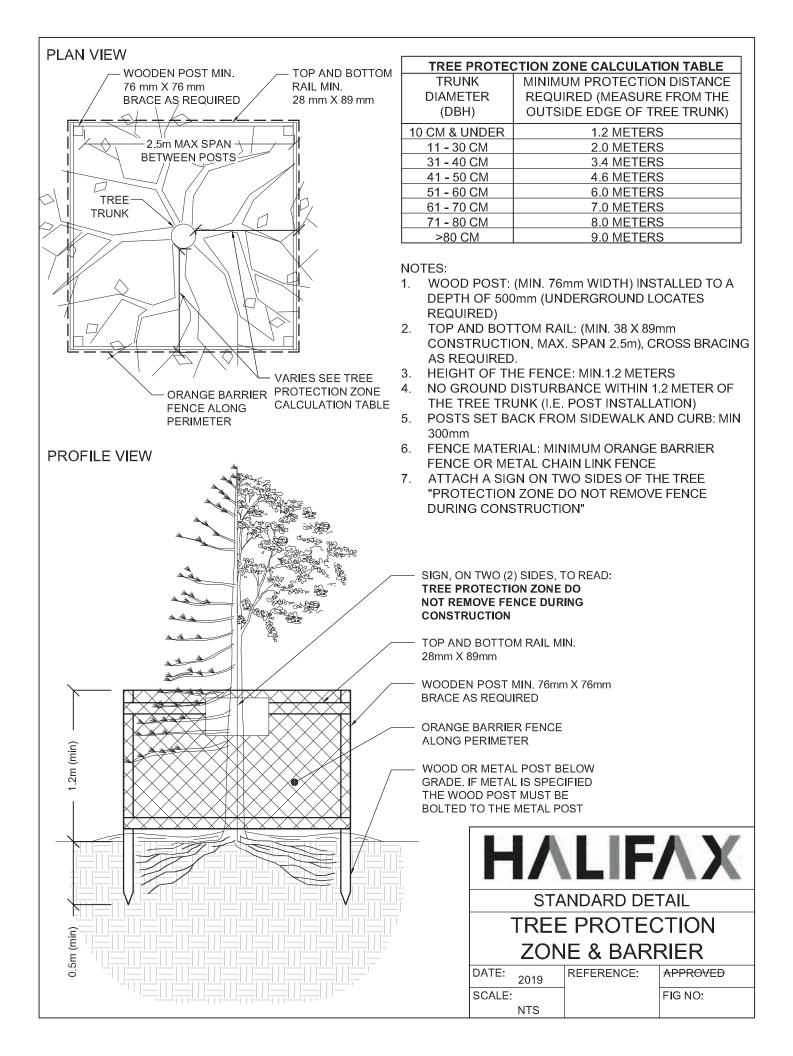
Legend

Pedestrian Route Sidewalk closure area



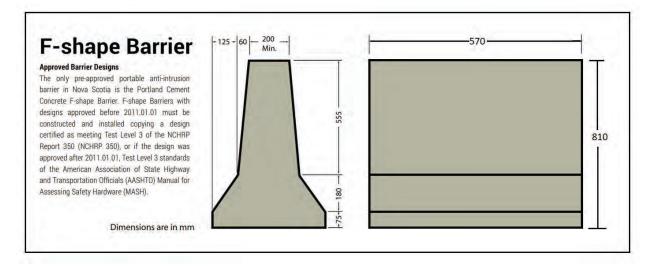


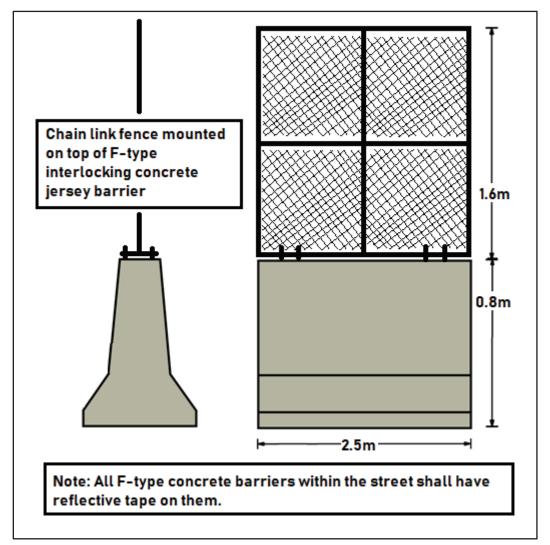
Appendix E – HRM Tree Protection Detail

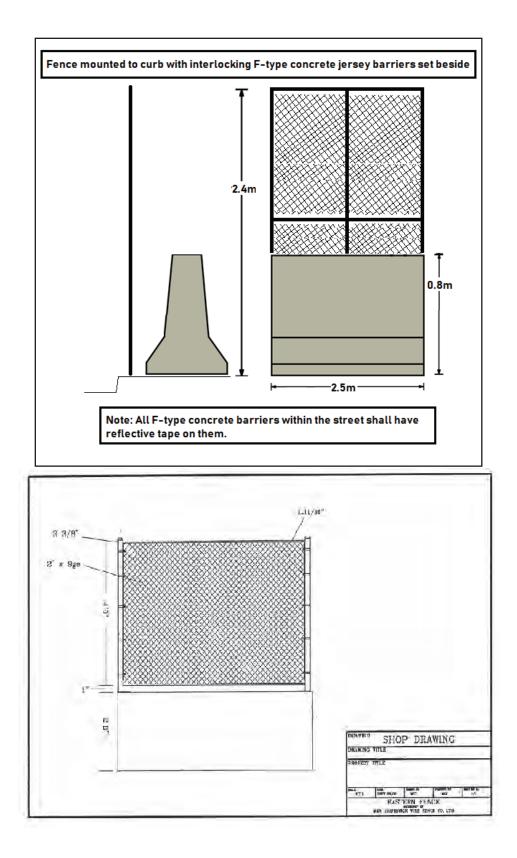


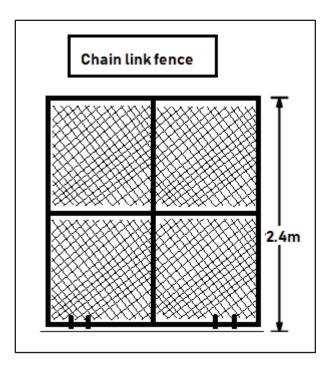


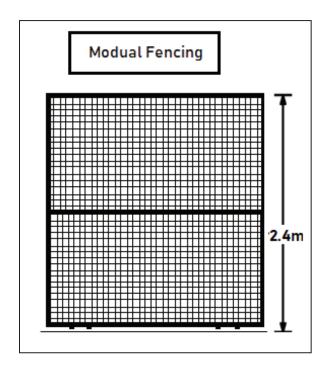
Appendix F – Barrier, Fence & Gates Information



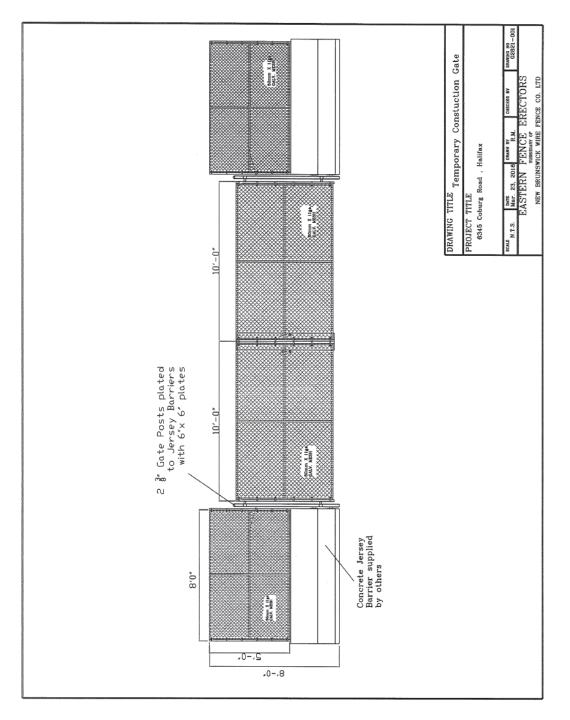














Appendix G – Hoarding Information

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

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

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

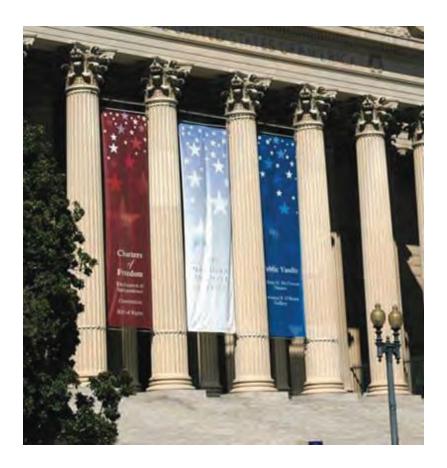
Product example is shown below with the technical data sheet on the following page.

Tarp Option





Print Banner Option





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	6-m
Construction		3	2*12
Total Weight	DIN53352 BS3424 Method5A	270 +/- 20 gsm/m ^a	7.96 oz/yd ²
Width		Up to 500cm	
Tensile Strength	DIN53352 BS3424	Warp 1250 n/5cm Weft 1100 n/5cm	142.75 x 130.19 lb/in
Tear Strength	DIN53356 BS3424	Warp 235 N Weft 225 N	52.8 x 50.5 lbf
Air Permeability	GB/T 2410-2008	264	9 mm/s
Light Transmission	GB/T 5453-1997	1	37%
Temperature Resistance	DIN53357 BS3425 Method 10	-20°C 70°C	

Applications

	Back-lit	Banner	Billboard	Block-out	Building Wrap	Fence Graphics	Truckside
Applications	1 - 1						

Ink Printability

Available Sizes

Solvent	Eco Solvent	VU	Latex	Screen Printing	Dye Transfer	Dye Direct	Metric (m)	English (inches)
					F		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

updated 12/2016

Ultraflac Systems Inc. Haadquarters 203 Kelsey Lane Suite E Temps, FL 236 19 Pr (273)027-8520 Email: sales@Ultraflets.com

- Ulication Systems Int. 1578 Same Tampike, Bidg 4 Randolph, NJ 07659 P. (973)527-6508 F. (973)527-6508 Email: sales guitaties.com
- Ofersifier Tokeon Unit 1 Nectorick Real Industriel Park. Grant Consolier Bedioxiahine England SG19 30J Phone: (44)1707-000 Enail: subset@dfatesurepe.com

Ultrafline Minister Anathris No. 112, Gal Granijas Minister Dali Jasunatio C.P. 00400, Mexico D.P. Tel. (55:0)162:05:23102, 3608 o1.800.822.52.31 Email: autointra@ultraflexccom Ultrafac Guadatean Av Patie Ris 2004 Lame Bonita Sur. Zappean Jalace CP45086 Moto: Tel: (22)3312-049-637



Appendix H – Project Information Board



PROPOSED MULTI – UNIT RESIDENTIAL BUILDING

Oxford and North Street

128 Residential Units

2 levels Underground Parking

May 2021 – December 2022

Owner: Ardmore Hall Limited 150 Solutions Drive, Suite 100 Halifax, NS, BOS 0E5 **Contact:** George Giannoulis - (902) 802-6588 (24hr contact) **Contractor:** Atlantic Road Construction and Paving 6 Belmont Avenue, P.O. Box 89 Eastern Passage, NS B3G 1M7 **Contact:** Greg MacDonald - (902) 830-6411 **Traffic Control:** Frontline Traffic Services 6 Belmont Avenue, P.O. Box 89, Eastern Passage, NS, B3G 1M7 **Contact:** Phil Pruneau - (902) 818-5548 **Rodent Control Company:** Rentokil Pest Control 51 Duke Street, Bedford, Bedford, NS Contact:

902-835-2304



```
Appendix I – Project Safety Signage
```







Appendix J – Project Signage Specifications

Signage Specifications: Project Signage shall;

- Be constructed of weatherproof material (corrugated plastic)
- Have high visibility contrasting colours (dark letters on white background)
- Incorporate appropriate font types (mix of upper and lower-case lettering)
- Incorporate appropriate font sizes (16mm 51mm) such that the signage is readable from a distance (16-20m)
- Size of signage will be poster size (600mm x 900mm) or larger; to allow community members to see and read the information from a distance
- Signage may incorporate plastic grommets positioned every 300mm around the perimeter of the signage to ensure a secure signage installation
- Signage will be installed/anchored to project fencing using plastic zip-ties
- Signage will be positioned along the project site as per the encroachment plan
- Signage shall not impede traffic of pedestrian sight lines
- Signage shall be placed on site 10days prior to the start of the noted construction activity to ensure the passing public has had adequate time to review, adjust their travel patterns, usage of streets and or can be considered 'informed'.

Samples







Appendix K – 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 L – Vehicular and Pedestrian Hazard Assessment

Proi	iect

1

2

3

4

5

6

7

8

9

10

Dangerous Materials

Hoisting Operations

Service Installation

Fallen debris

Reinstatement of Public Infrastructure &

All Phases

Superstructure

Superstructure

Superstructure

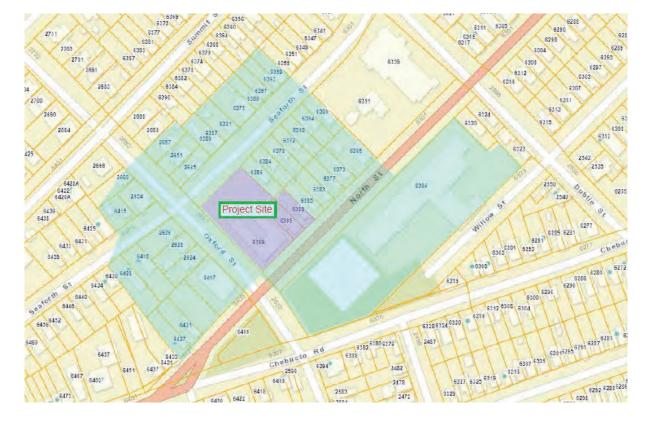
Location Date: **VEHICULAR & PEDESTRIAN HAZARD ASSESSMENT** Project Phase: Vehicular Impacts: Mitigation Methods: Pedestrian Impacts: No. Hazard: Place concrete barriers along travel ways. Concrete barriers and Vehicles may enter project site and fall down excavation. existing curbs to prevent vehicle entry. Excavation Excavation edestrians may enter project site and fall down excava Vehicle weight may surcharge excavation, causing excavation Close sidewalks & driveways adjacent to project site, moving vehicles wall failure. arther away from excavation. Close sidewalks & driveways adjacent to site, moving vehicles farther **Rock Blasting** Excavation Blasted rock projectiles may strike vehicles. Blasted rock projectiles may strike pedestrians. away from blasted rock. The contractor shall keep the project site and surrounding areas All Phases Construction Waste Vehicles may be struck by construction waste. Pedestrians may be struck by construction waste. clean and free of construction debris. Drivers and pedestrians may become confused or impatient Drivers and pedestrians may become confused or impat Vehicular and pedestrian signage will be posted prominently around with construction activities. Pedestrians may walk in with construction activities. Pedestrians may walk in Vehicular & Pedestrian Activities All Phases the project site to facilitate pedestrian movement. Notification will Inmarked crosswalks or in vehicular travel areas. Drivers may unmarked crosswalks or in vehicular travel areas. Driver be sent prior to all traffic interruptions. fail to obey traffic signage. fail to obey traffic signage. The contractor shall maintain safe distances between vehicles and Heavy machinery or vehicles may break down or overturn, Heavy machinery or vehicles may break down or overtu heavy machinery on-site.Concrete barriers will be installed to damaging other vehicles. injuring pedestrians. separate construction vehicles from public traffic. Heavy Machinery Operation All Phases Heavy machinery or vehicles may overturn due to uneve Heavy machinery or vehicles may overturn due to uneven The contractor shall maintain safe distances between vehicles and terrain, injuring pedestrians. Pedestrians may walk on ur terrain, damaging other vehicles. heavy machinery on-site and ensure travel routes are kept flat. terrain causing them to twist their ankles or fall. Pedestrians may walk into construction signage, includir Construction signage will be securely fixed to existing poles, traffic signage, wayfinding signs, etc. may. All Phases Construction Signage Construction signage may strike vehicular traffic. temporary concrete sign bases, or rigid fences. Construction signage may strike pedestrians.

Vehicular Impacts:	Mitigation Methods:	Pedestrian Impacts:	Mitigation Methods:
Vehicles may enter project site and fall down excavation. Vehicle weight may surcharge excavation, causing excavation wall failure.	Place concrete barriers along travel ways. Concrete barriers and existing curbs to prevent vehicle entry. Close sidewalks & driveways adjacent to project site, moving vehicles farther away from excavation.	Pedestrians may enter project site and fall down excavation.	Place concrete barriers/rigid fencing around entire project site.
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.
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.
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.
Heavy machinery or vehicles may break down or overturn, damaging other vehicles.	The contractor shall maintain safe distances between vehicles and heavy machinery on-site.Concrete barriers will be installed to separate construction vehicles from public traffic.	Heavy machinery or vehicles may break down or overturn, injuring pedestrians.	The contractor shall maintain safe distances between pedestrians, vehicles, and heavy machinery. Rigid fences will be installed to separate construction vehicles from pedestrians.
Heavy machinery or vehicles may overturn due to uneven terrain, damaging other vehicles.	The contractor shall maintain safe distances between vehicles and heavy machinery on-site and ensure travel routes are kept flat.	Heavy machinery or vehicles may overturn due to uneven terrain, injuring pedestrians. Pedestrians may walk on uneven terrain causing them to twist their ankles or fall.	The contractor shall maintain safe distances between pedestrians, vehicles, and heavy machinery and ensure travel routes are kept flat.
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.
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.
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.
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.
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 M – Community Consultation Records

COMMUNITY CONSULTATION MAP OVERVIEW



Project – Oxford & North Street

Notification Letter

Date: ******

Ardmore Hall Limited – Building Construction Information Meeting

Dear Neighbour,

As you may be aware, we are planning an apartment building construction project located on the corner of Oxford and North Streets.

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

Thank you.

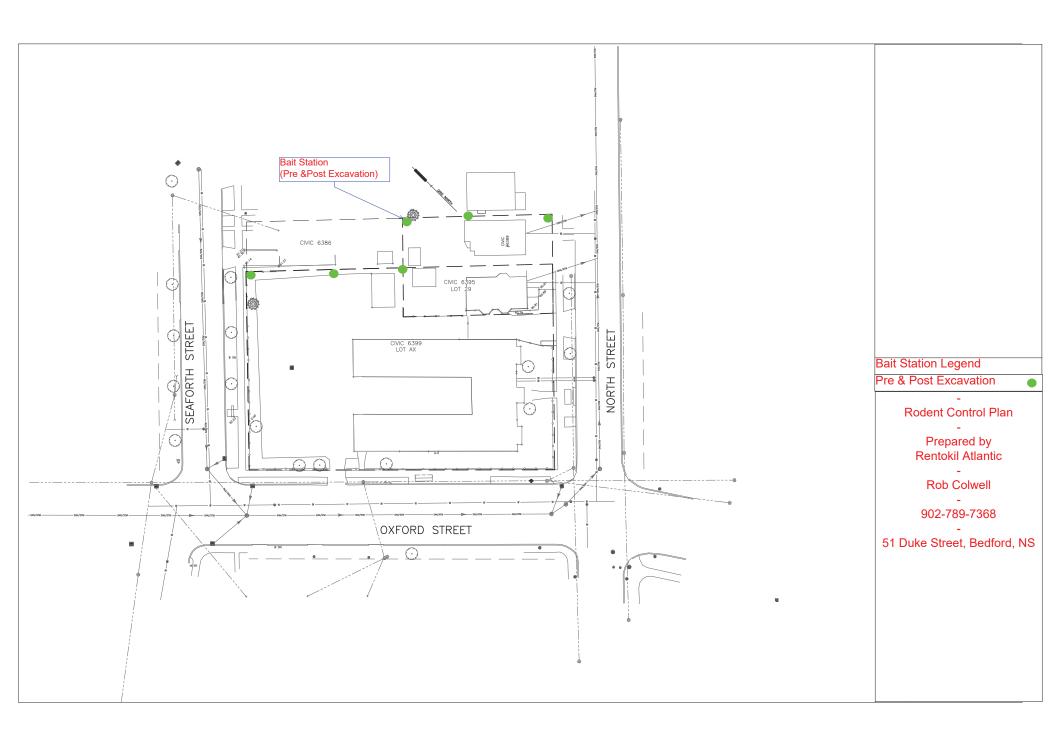
George Giannoulis

Cell: 902-802-6588

Email: george@mosaikproperties.ca



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[™] rat trap or Mini-Rex[™] mouse trap

▶ Compatible with Sidekick[®] Load-N-Lock[™] 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 BLOXTM







KILLS RATS, MICE & MEADOW VOLES*

Kills Warfarin Resistant Norway Rats

KEEP OUT OF REACH OF CHILDREN CAUTION

See back panels for First Aid and additional precautionary statements.

 ACTIVE INGREDIENT:

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

 OTHER 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 K₁ intramuscularly or orally. Repeat as necessary based on monitoring of prothrombin times.

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

NOTE TO VETERINARIAN

Anticoagulant Bromadiolone: For animals ingesting bait and/or showing poisoning signs (bleeding or elevated prothrombin times), give Vitamin 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 tohoofed 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 (Raftus norvegicus), Roof rat (Raftus rattus), Cotton mouse (Peromyscus gossypinus), Cotton rat' (Sigmodon hispidus), Deer mouse (Peromyscus maniculatus), Eastern harvest mouse' (Reithodontomys humuli), Golden mouse' (Ochrotomys nuttalii), Polynesian rat' (Rattus exulans), Meadow vole' (Microtus pennsylvanicus), White-footed mouse (Peromyscus leucopus), White-throated woodrat' (Neotoma albigula), Southern plains woodrat' (Neotoma micropus), and Mexican woodrat' (Meotoma 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 ordent 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 [†] :	. 99.9959
[†] Contains Denatonium Benzoate TOTAL	100.000%

KEEP OUT OF REACH OF CHILDREN CAUTION

See side panels for First Aid and additional precautionary statements.

STORAGE AND DISPOSAL

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

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

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

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

NET WEIGHT: 18 lbs (8.2 kg)

EPA REG. NO. 12455-79



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.

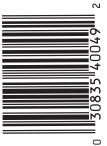
APPLICATION DIRECTIONS:

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[®]BLOX with LUMITRACK

SAFETY DATA SHEET

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

PREPARED BY: CAR

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: DETEX[®] BLOX with LUMITRACK

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

MANUFACTURER/SUPPLIER:

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

SECTION 2. HAZARDS IDENTIFICATION

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

Signal Word: None

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Γ	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.

Rentokil

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

PestNetOnline

PestNetOnline

The complete online pest management and reporting solution

Randy Hobbs Account Executive

What is **PestNetOnline**?

Online reporting and analysis of all pest activity

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



Who is PestNetOnline for?

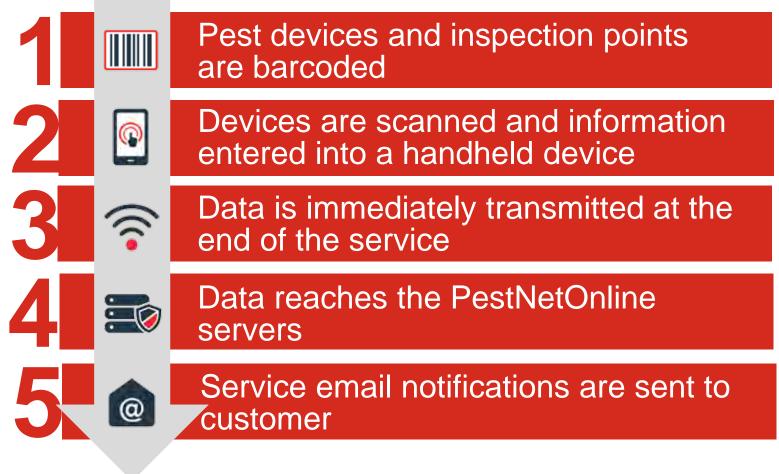
For Food and Beverage, Pharmaceutical, Logistics, Healthcare, Commercial/Residential Property, and Retail... any business that needs online pest management and reporting

Offering:

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



How PestNetOnline works...



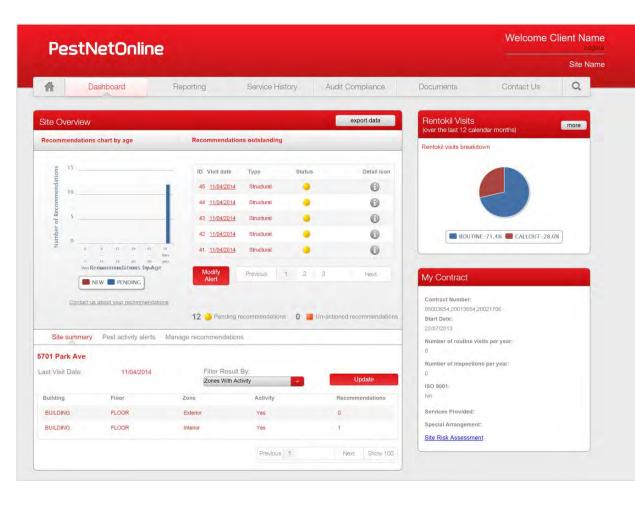
PestNetOnline

Information is displayed in PestNetOnline and mobile applications

PestNetOnline

Single site locations

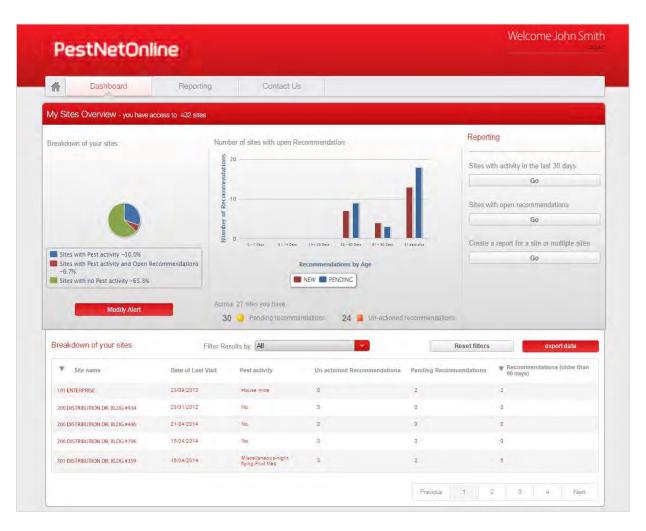
- Provides a comprehensive review of all visit details
- Pest Activity and Recommendation charts summarizing at a high level all issues
- Visit Filters allowing you to quickly locate series of visit and types of visits
- Review and reprint any Proof of Service
- Navigation tabs take you directly to Tasks,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



PestNetOnline

For multi site locations

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



PestNetOnline

		Welcome Clier
Dashboard Reporting Contact Us		
ting reports		Create new
Create a new report		Pest activity, recommendations a preparations report
Please enter a report title		
Pest Activity		
1) Select report type and location		
Type of report Alt Pest activity Recommendations Preparations What format should the report be		
Excel pdf		
Where would you like this report emailed to? john.pfeffer@rentokil.com		
John prener Brenova.com		
When would you like the report to run? One Off Scheduled		
One Off Scheduled What site locations would you link to report on?	All 😪	
One Off Scheduled What site locations would you link to report on? All Internal External	All 😒	

Analysis and reports

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

PestNetOr	nline					Welcome Cli	ent Nam
- contector							Site Nam
A Dashboa	ard	Reporting	Service History	Audit Compliance	Documents	Contact Us	Q
Charts Re	arts .						
	-					Email or Print	Create chart
Recommendations ar	nalysis						
Status Type							
Analysis of recor	nmendati	ons by Type					Chart Dat
Filter results							
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			2				11
Building	All		1.5				
Floor	All		ecom		1.1.1		
Zone	All		1				
Recommendation status	All		0.5				
Recommendation types	All	×					
	-		0 Mar 2014	Apr 2014 May 2014 jul 21	114 Aug 2014 34	40.2014 IDet.2014	NOV 2014
Reset Filters	Up	date					
			Sanitation 🔳 Str	uctural 📕 Equipment			
			Enter new notes here	C			

- Options to review an entire worksite, or specific Buildings / Floor / Zones within your worksite
- Feature rich with multiple date range options
- Provides quick, ad-hoc snapshot analysis on all pest activity

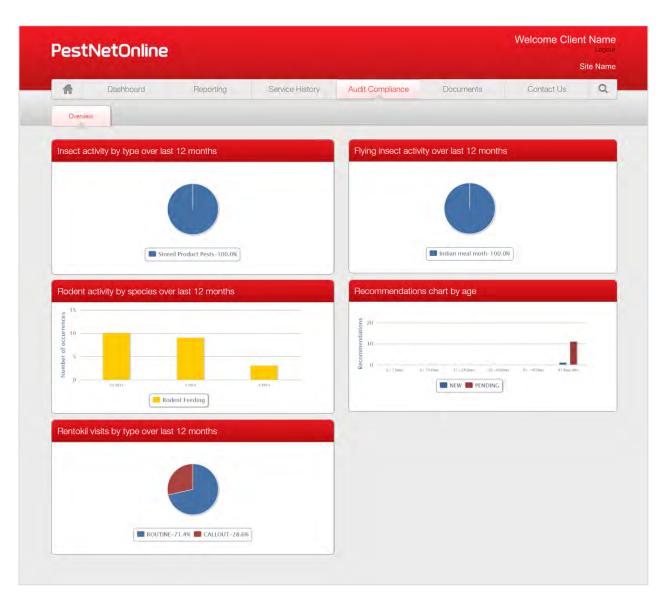
Rentokil

Ehrlich Western Presto-X Your Local Pest Control Experts

 Add commentary to charts

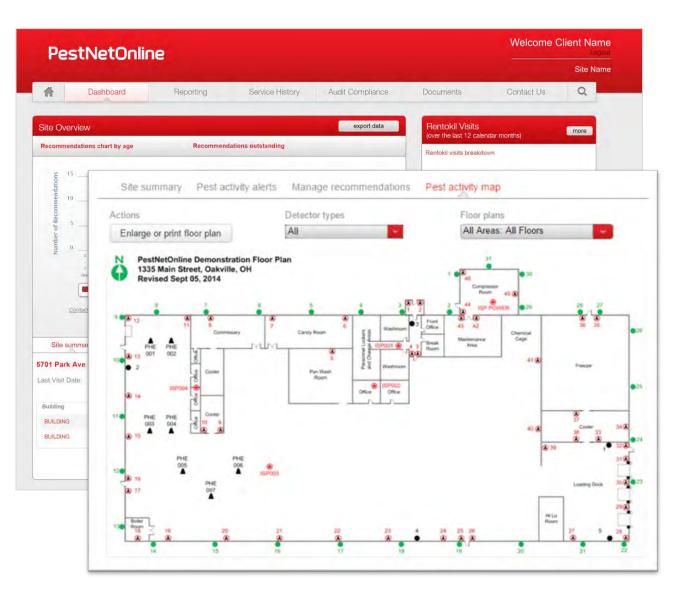
For high dependency customers

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

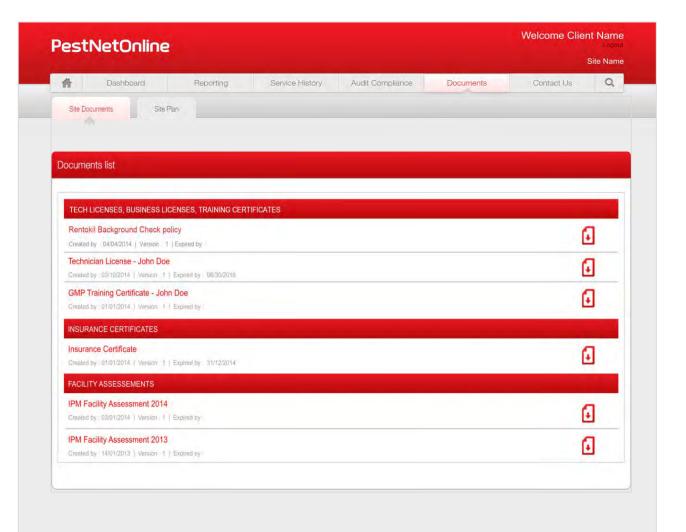


Site plans for high dependency and commercial customers

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



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



PestNetOnline Smartphone App

Home Screen

- Open recommendations
- Instances of activity (last 90 days)

Recommendations

- · Open recommendations total and by site
- Open recommendations within a single site
- Individual recommendation detail
 - Update the recommendation on the spot!

Activity

- Overall activity and activity instances by site
- Last 90 days activity within a single site
- Activity details and materials used
- Site list and recommendation and activity indicators
- Email alerts creation

۲ ک	PestNet	Online	
	Pest Acti 1125 BERKSH		
	last visit 2	3/10/2014	
Date 🗸	Location	Pest Species	
09/10/2014	RBS 03	Mouse Feeding	>
09/10/2014	RBS 06	Mouse Feeding	>
09/10/2014	RBS 04	Mouse Feeding	>
25/09/2014	RBS 60	Mouse Feeding	>
11/09/2014	RBS 13	Mouse Feeding	>
11/09/2014	RBS 14	Mouse Feeding	>
11/09/2014	RBS 21	Mouse Feeding	>
28/08/2014	RBS 59	Rodent Feeding	>
28/08/2014	RBS 60	Rodent Feeding	>
14/08/2014	WORKSTIE	Fruit flies	>
\sim	Δ /	60	NO.
Home Re	commenda Activi	ty Sites	Alerts

PestNetOnline Flexibility

PestNetOnline offers three levels of functionality

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

Level	Residential	Commercial	High Dependency
Functionality	Privately owned residences, condos, and townhouses	Commercial organizations that do not require third party audit support	Businesses and organizations who utilize any third party audit group
Barcode Structure	One barcode is required	J	J
Materials Usage	Only through reporting	J	J.
Pest Activity	J	J	1
Updating Recommendations	J	1	J
Visit Details	J	1	J
Single Site Reporting	J	1	V
Documents	J	J	1
Reports	V	J	V
Smartphone app (lite version)	J	1	J
Alerts	Х	J	J
Multi-Site Reporting	Х	1	J
Detector History	X	J	V
Trends Analysis	X	J	V
Tasks	Х	1	V
Site Plans	Х	Х	J
Audit Compliance	Х	Х	V

For more information visit pnol.rentokilna.com

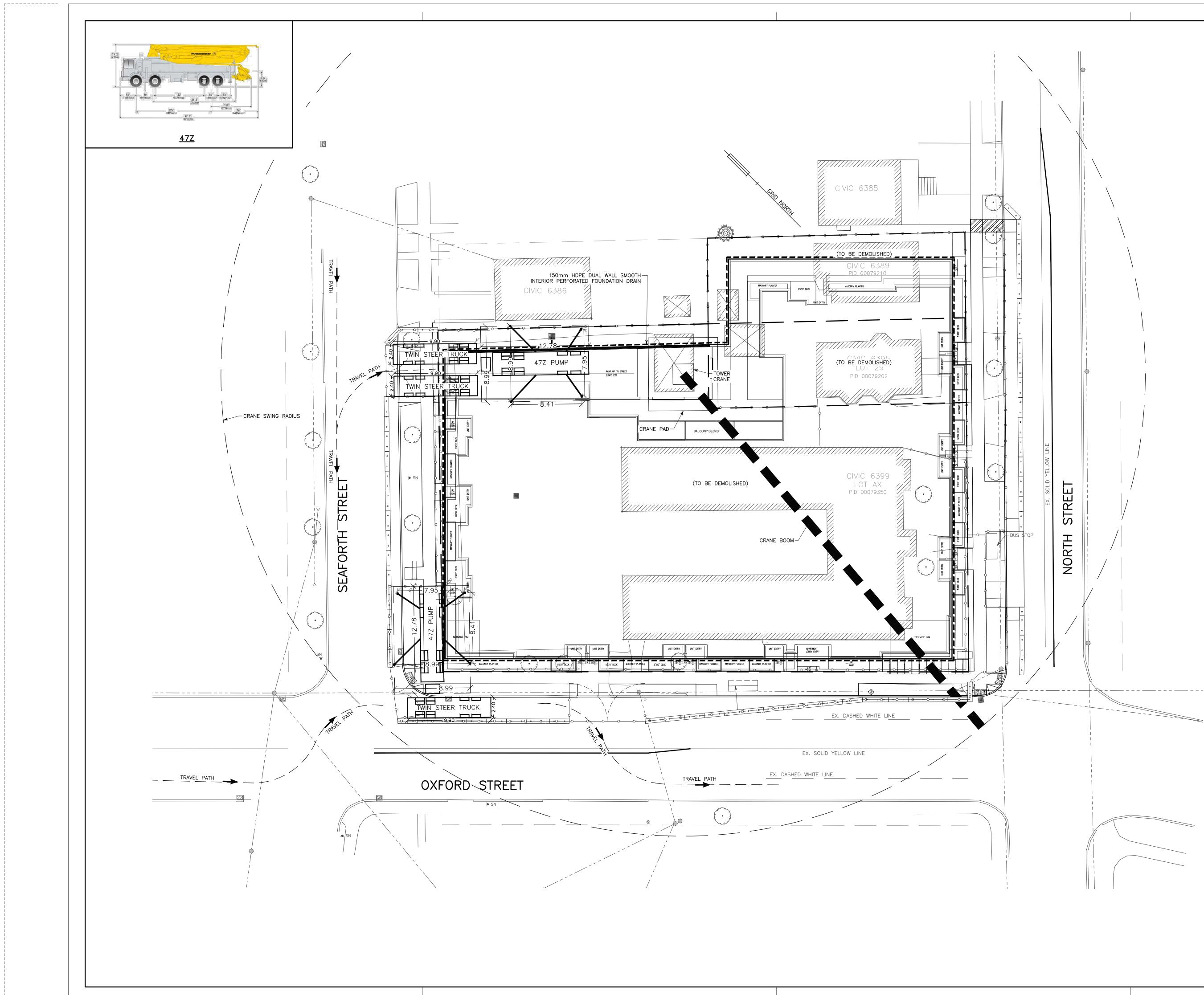


Appendix O – CMP's TCP & PMP Inspection Records

Project:		Locati	ion:			Phase:	Date:	Inspector:
		C	ONSTR	RUCTIO	N MAN	AGEMENT PLAN - INSPECT	ION CHECKLIST	
CMP Element	Set-u	ip per	PMP?	Cond	ition?	Action Poquirod	Action Completed	Comments
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Appendix P – Concrete Delivery Schematic



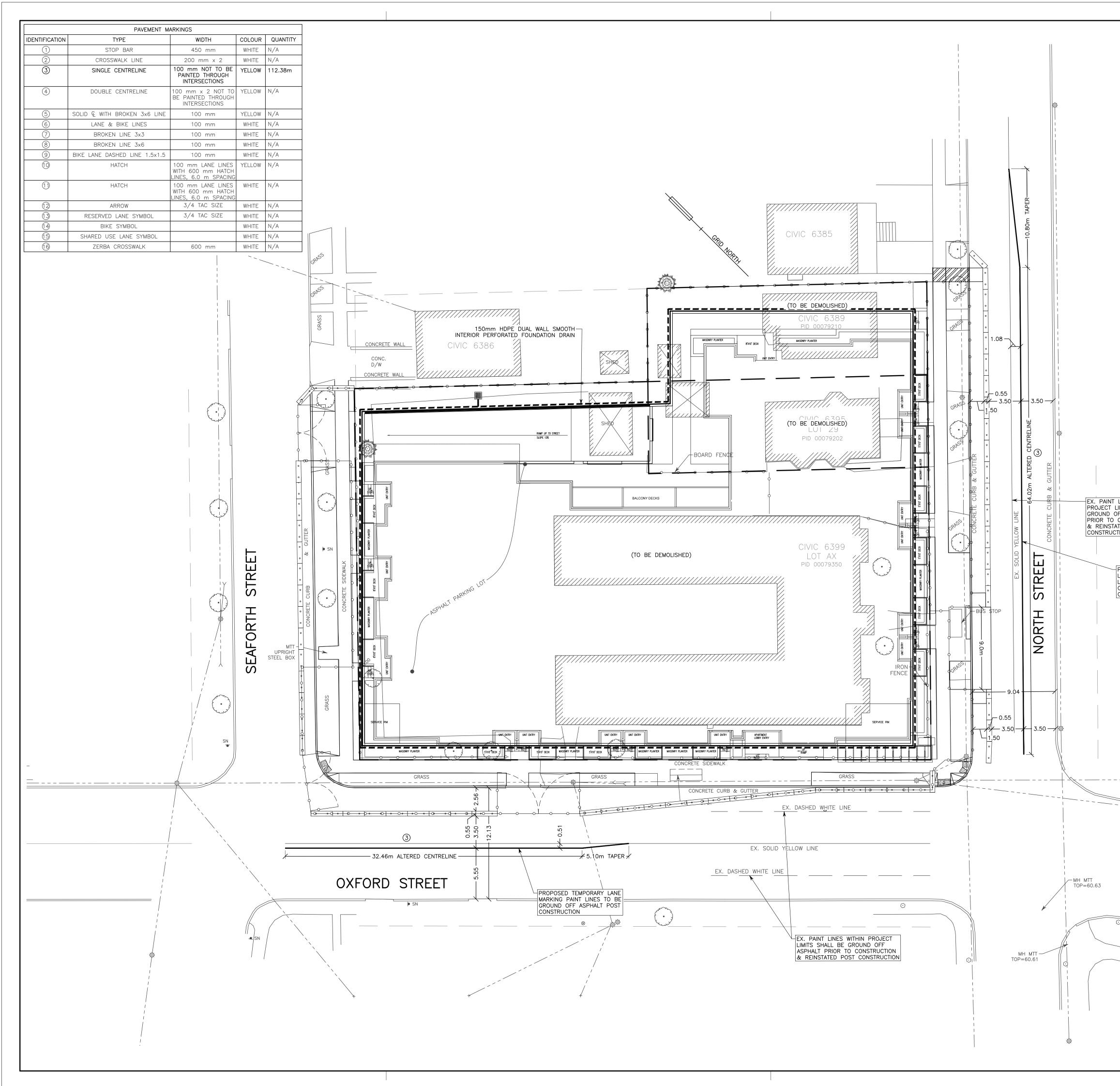
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)	=(CATCH BASIN/PIT)
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		GE/SWALE FLOW DIREC	rion	~ ~ /
w		WATER MAIN/SERVICE		w
SAN		ITARY MANHOLE & PIPE		SAN
SAN/STM —		COMBINED PIPE		SAN/S
GAS		GAS LINE		GAS
FL		100YR. FLOOD LIMIT		FL
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	PRC	FENCE		
]	BUILDING		
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	·	TOE OF SLOPE		
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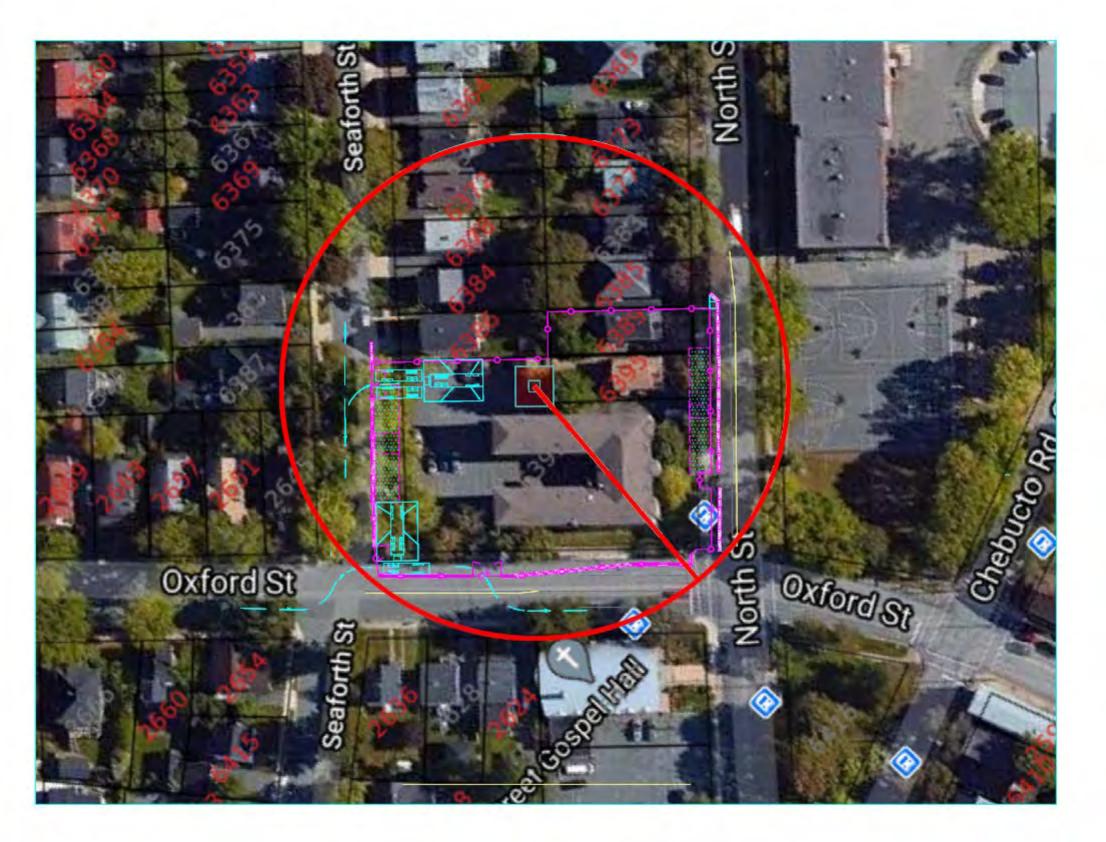
Appendix Q – Line Painting Plan

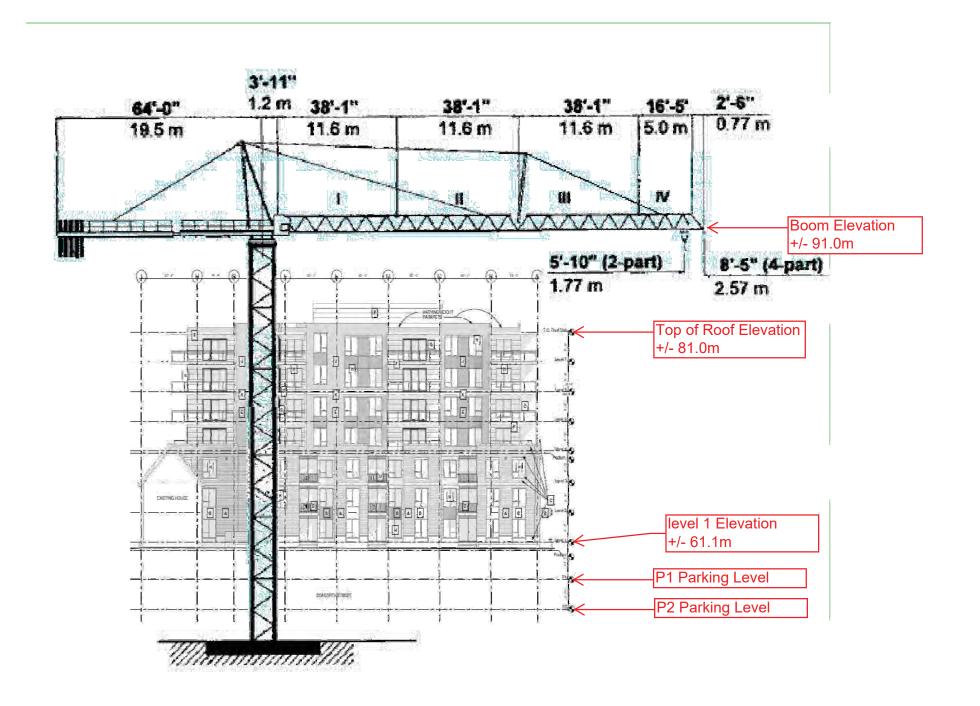


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	KEY PLAN	CHEBUCTORD	
		LEGEND	
	EXISTING	CONTOUR LINE	PROPOSED
	25.0 ⊗/⊗BF	CURB STOP/GATE/BUTTERFLY VALVE	25.0 <u>8/8</u> F
	<u> </u>	FIRE HYDRANT	
		CONCRETE THRUST BLOCK	٩
		SIAMESE CONNECTION	⊲
		CATCH BASIN/PIT	
		ROCK LINING/DAM ROCK WALL/RETAINING WALL	
	>>	POWER POLE & ANCHOR/LIGHT STANDARD	→ ↓/O
	@/⊙	TREE	@/0
	▼/�	STREET SIGN/PARKING METER	▼/⊕
	× 131.82	ELEVATION/GRADE	125.00 × / + 125
		TEST PIT DRAINAGE/SWALE FLOW DIRECTION	~~ > / ~s*
		- WATER MAIN/SERVICE	
	SAN	- SANITARY MANHOLE & PIPE	
	STM	- STORM MANHOLE & PIPE	
		- COMBINED PIPE - GAS LINE	SAN/STM GAS
	FL	- 100YR. FLOOD LIMIT	FL
		- GUARD RAIL	
	c	- UNDERGROUND CONDUIT	c
		- OVERHEAD WIRES	
		- PROPERTY LINE/BOUNDARY - FENCE	
AINT LINES WITHIN CT LIMITS SHALL BE		BUILDING	
ND OFF ASPHALT R TO CONSTRUCTION		TOP OF SLOPE	
INSTATED POST TRUCTION	· · · · · ·	TOE OF SLOPE	
		TREELINE	\sim
		LIMITS OF DISTURBANCE	
PROPOSED TEMPORARY			
LANE MARKING PAINT LINES TO BE GROUND		PROJECT SAFETY SIGNAGE	
LANE MARKING PAINT	<u>NOTES</u> 1. THIS PLAN IS	ORANGE SAWHORSE BARRICADE	
LANE MARKING PAINT LINES TO BE GROUND OFF ASPHALT POST		ORANGE SAWHORSE BARRICADE	
LANE MARKING PAINT LINES TO BE GROUND OFF ASPHALT POST	1. THIS PLAN IS APPROVED BY TRAFFIC AUTHOR FOR THE APPROV OF THIS TEMPOR	ORANGE SAWHORSE BARRICADE	DTHER ASPECTS / THE TEMPORARY
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LANE MARKING PAINT LINES TO BE GROUND OFF ASPHALT POST CONSTRUCTION	1. THIS PLAN IS APPROVED BY TRAFFIC AUTHOR FOR THE APPROV OF THIS TEMPOR CONTROL MANUAL 1 21/07/28 0 21/02/05 No. YY/MM/DD 1 21/02/05 No. YY/MM/DD FESSING B978 G.K. MacLe B978 G.K. MacLe B978 Cor NO B1D 000792 638 Date FEBRUARY 5, 2021 Scale 1:200	ORANGE SAWHORSE BARRICADE IN METRIC. IN METRIC. REVISED AS PER HRM ISSUED FOR REVIEW Revision Description REVISED AS PER HRM ISSUED FOR REVIEW Revision Description C. PORTER Engineer C. PORTER Engineer Plan No. C. PORTER ENGINE	Apr Apr Apr Apr Apr Apr Apr Apr Apr Apr



Appendix R – Crane Information





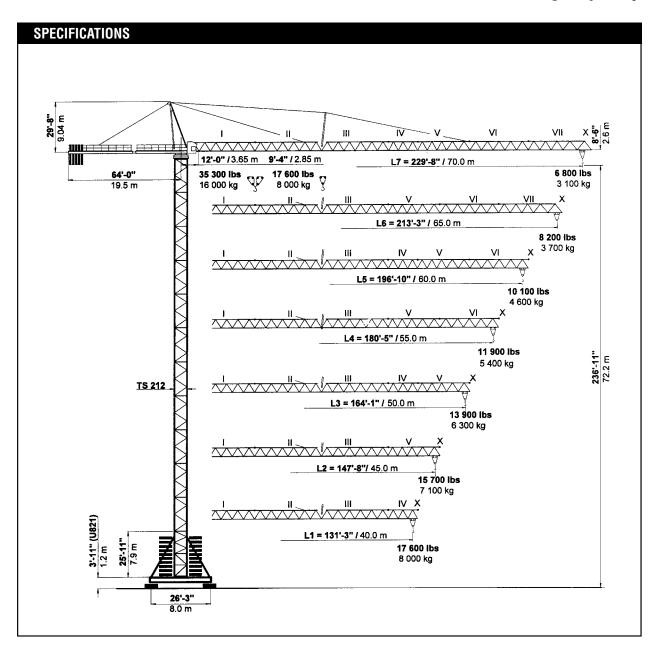


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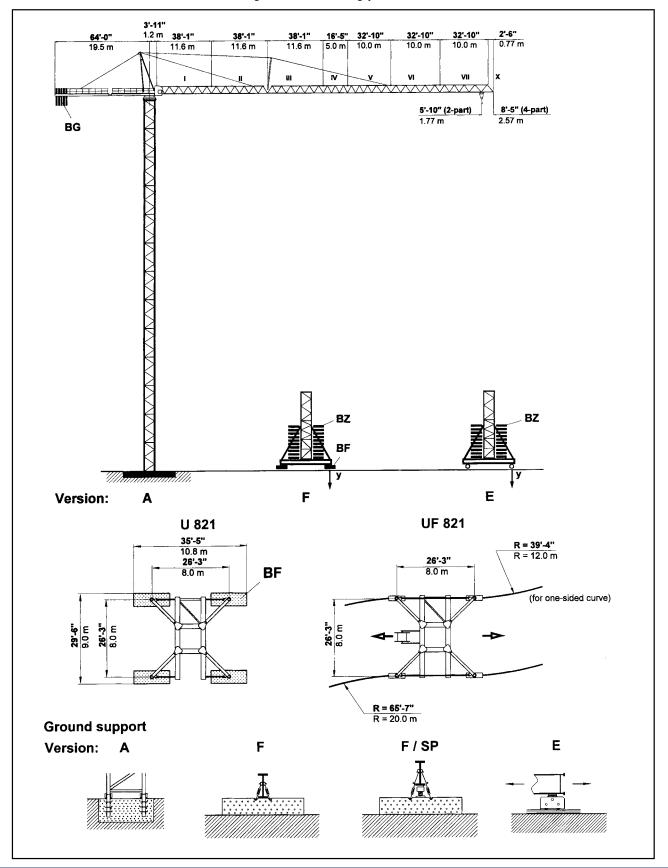


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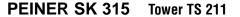


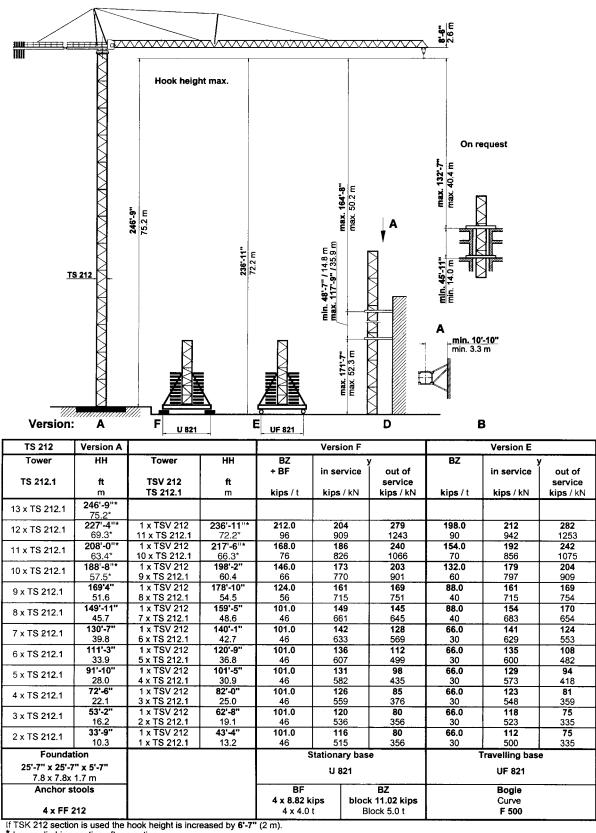
Combinations of tower section, hook heights, forces acting per corner, base ballast



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

	Jib	Max. capacity max.		ius – fi acity –		nt	2-Pa	rt Line		nax. ⁻ 1ax. 8	17,60 .0 t	0 Ibs							
	₽ E	1 7,600 lbs 8.0 t	75'-6'' 23	82'-0'' 25	98'-5" 30	114'-10'' 35	131'-3" 40	141'-1'' 43	147'-8 " 45	157'-6'' 48	164'-1 " 50	173'-11" 53	180'-5" 55	190'-3" 58	196'-10 " 60	206'-8'' 63	213'-3" 65	223'-1" 68	229'-8" 70
L7		9'-4" - 96'-9" 2.85 - 29.5 m	17600 8.0	17600 8.0	17400 7.9	14800 6.7	12800 5.8	11900 5.4	11200 5.1	10600 4.8	10100 4.6	9500 4.3	9000 4.1	8600 3.9	8200 3.7	7700 3.5	7500 3.4	7100 3.2	6800 3.1
L6		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													
_	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	13200 6.0	12300 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	30200 13.7	12.4	10.1	18700 8.5	16100 7.3	14800 6.7	14100 6.4	12800 5.8	1 2300 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	+ → →	v = () → ~290	fpm (88 m /	min.)			10.2 HP 7.5 kW	
SR 10-190/3	≁ +	v = 0 → ~96 fpm (30 m / min.)						2 x 16.3 HP 2 x 12.0 kW	
K WB 120/4	$\bigcirc \checkmark$	v = (0.9 rj	om (min ⁻¹)				2 x 11.4 HP 2 x 8.4 kW	
	А Н	(max. = 705	' (215 m)	6 - layers	5			480 V / 60 Hz / 3	3 ph
		2-Part	▶ 444 fpm 134 m/min	5 500 lbs 2 500 kg		 222 fpm 67 m/min 	11 000 lbs 5 000 kg	Total motor output	~140
Type SR WB 66-	≧⅃↑	-	276 fpm 84 m/min	9 300 lbs 4 200 kg		 138 fpm 42 m/min 	18 600 lbs 8 400 kg	without SR 10-190/3	НР ~105
80/4F		-	▶ 180 fpm 54 m/min	13 900 lbs 6 300 kg		▶ 90 fpm 27 m/min	27 800 lbs 12 600 kg		kW
[108 HP] [79 kW]			108 fpm 34 m/min	1 7 600 lbs 8 000 kg		54 fpm 17 m/min	35 300 lbs 16 000 kg	Connected power	170 kVA

Counterweight

Jib		L 1	L2	L 3	L4	L 5	L6	L 7
	BG	30 000 lbs 13 600 kg	32 200 lbs 14 600 kg	36 600 lbs 16 600 kg	39 150 lbs 17 750 kg	43 550 lbs 19 750 kg	41 350 lbs 18 750 kg	45 750 lbs 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



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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 ³ / m ³
1	Jib Section III		39.01 11.94	4.99 1.52	7.09 2.16	4 200 1.92	1 386 39.2
2	Jib Section I Section IV Section V Section VI Section VII Jib tip X		39.01 11.89 38.65 11.78 19.19 5.85 35.34 10.77 36.03 10.98 33.33 10.16 3.12 0.95	4.99 1.52 4.99 1.52 4.99 1.52 4.99 1.52 4.99 1.52 4.99 1.52 5.02 1.53	5.84 1.78 6.17 1.88 5.41 1.65 5.45 1.66 5.48 1.66 5.48 1.62 1.62 1.62	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	36.35 11.08	7.64 2.33	7.81 2.38	25 350 11.50	2 169 61.4
3	Turntable with slewing ring supp	ort	31.99 9.75	7.64 2.33	7.81 2.38	24 030 10.90	1 911 54.1
	Cabin with support and railing		10.17 3.10	4.92 1.50	7.25 2.21	1 320 0.60	364 10.3
4	Counter jib with hoist winch		38.13 11.62	5.91 1.80	6.00 1.83	14 550 6.60	1 353 38.3
	Hoist winch	66 WB	7.51 2.29	5.45 1.66	3.28 1.00	5 400 2.45	1 34 8.4
5	Counterweight	BG	3.94 1.20 3.94 1.20	1.64 0.50 1.64 0.50	9.32 2.84 12.11 3.69	6 950 3.15 9 150 4.15	60 1.4 78 1.7
		TS 212.1	19.52 5.95	7.78 2.37	8.01 2.45	9 130 4.14	1 216 34.4
6	Tower section	TSV 212 with struts	31.17 9.50	9.84 3.00	10.00 3.05	20 330 9.22	3 067 86.9
		TSK 212	6.63 2.02	7.87 2.40	9.84 3.00	6 170 2.80	513 14.5
7	Travelling base, folded	UF 821	41.01 12.5	9.74 2.97	7.05 2.15	35 050 15.90	2 816 79.8
8	Stationary base, folded	U 821	34.55 10.53	9.06 2.76	2.79 0.85	17 130 7.77	873 24.7
9	Central ballast block	BZ	11.48 3.50	4.92 1.50	2.20 0.67	11 020 5.00	124 3.5
10	Foundation pad	BF	9.19 2.80	3.28 1.00	1.87 0.57	8 820 4.00	57 1.6
11	Accessories					4 800 2.17	



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

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



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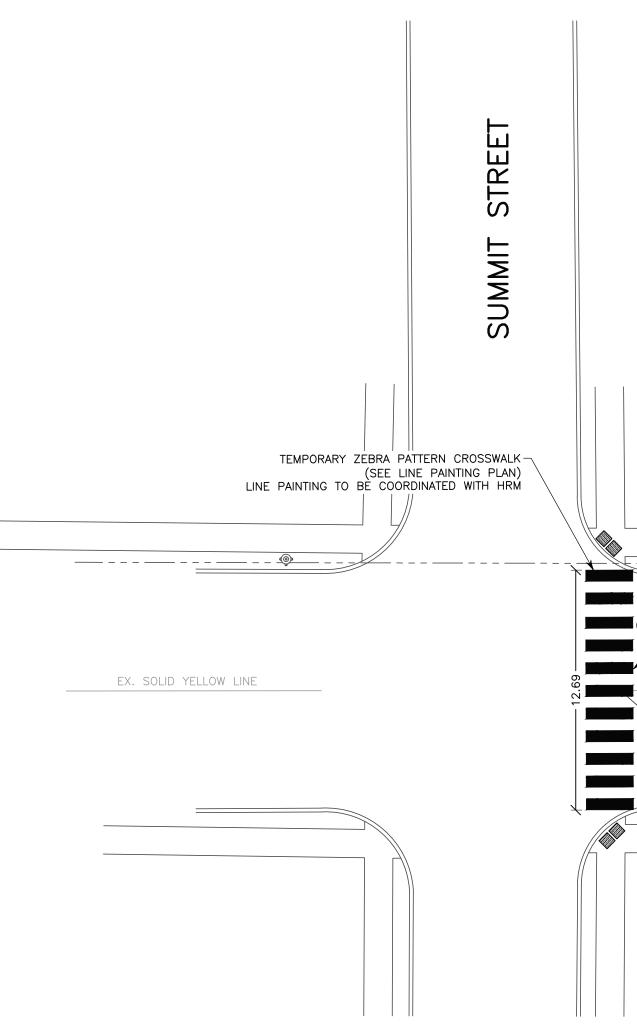


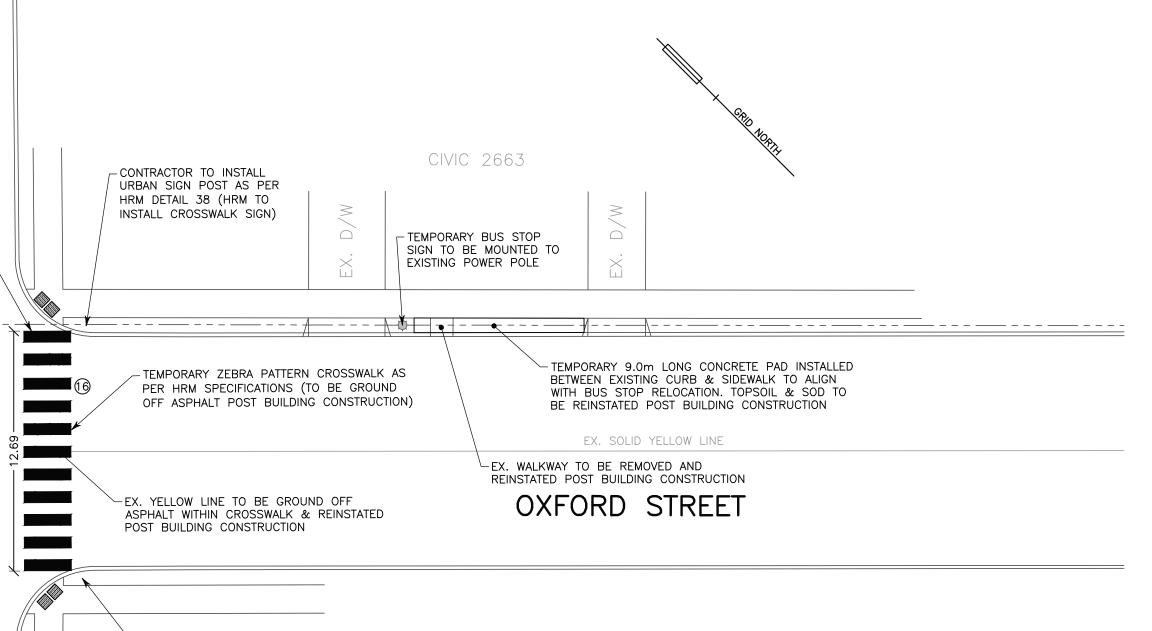
Appendix S – Temporary Crosswalk and Bus Stop Plan

	PAVEMENT M	ARKINGS		
IDENTIFICATION	TYPE	WIDTH	COLOUR	QUANTITY
1	STOP BAR	450 mm	WHITE	N/A
2	CROSSWALK LINE	200 mm x 2	WHITE	N/A
3	SINGLE CENTRELINE	100 mm NOT TO BE PAINTED THROUGH INTERSECTIONS	YELLOW	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 3x6	100 mm	WHITE	N/A
9	BIKE LANE DASHED LINE 1.5x1.5	100 mm	WHITE	N/A
10	НАТСН	100 mm LANE LINES WITH 600 mm HATCH LINES, 6.0 m SPACING	YELLOW	N/A
11)	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	12.69m

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CONTRACTOR TO INSTALL URBAN SIGN POST AS PER HRM DETAIL 38 (HRM TO INSTALL CROSSWÀLK SIGN)

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	× /⊠/@/□	CATCH BASIN/PIT	
)		CULVERT ROCK LINING/DAM)
		ROCK WALL/RETAINING WALL	
>>		POWER POLE & ANCHOR/LIGHT STANDARD	>> ÷ /0
	Ø/⊙ ▼/●	TREE STREET SIGN/PARKING METER	∅ /⊙ т/ •
	× 131.82	ELEVATION/GRADE	125.00 × / + 125.0
	► / ←s→ 	DRAINAGE/SWALE FLOW DIRECTION WATER MAIN/SERVICE	
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\odot		STORM MANHOLE & PIPE	STM
		GAS LINE	GAS
	FL	100YR. FLOOD LIMIT	FL
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		PROPERTY LINE/BOUNDARY	
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		TOE OF SLOPE TREELINE LIMITS OF DISTURBANCE TACTILE PEDESTRIAN PLATES	
1.		TOE OF SLOPE TREELINE LIMITS OF DISTURBANCE TACTILE PEDESTRIAN PLATES PROJECT SAFETY SIGNAGE ORANGE SAWHORSE BARRICADE	MAGERY AS SITE
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