Quinpool & Pepperell Residential Development 6324 - 6330 Quinpool Road

Demolition, Excavation & Building Construction

Prepared by Geoff MacLean, P.Eng.

Job No. 37776

CONSTRUCTION MANAGEMENT PLAN

| 0 | MAY 2023 | ISSUED FOR REVIEW |
|------------|----------|-------------------|
| REVISION # | DATE | DESCRIPTION |





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



Section 1: Introduction

1.1: Project Description and Objectives

The developer is planning a mixed-use apartment building project on their land located between Quinpool Road and Pepperell Street in Halifax, Nova Scotia. In preparation for this development, the existing building at civic 6324-6330 Quinpool Road (currently McDonalds and FX Gym) will be demolished. The planned development will include 154 residential units within a 9-storey building with ground level commercial space, as well as 2 levels of underground parking accessed from Pepperell Street. This CMP has been prepared to address demolition excavation, services and building construction.

Where the building is planned to have 2 level of underground parking, deep excavations (+/- 20ft) fronting the HRM Right of Way (ROW) are required for the project. Given the building foundation is set at the ROW on both streets, for public safety from excavation limits and construction activities the project compound is planned to include portions of the HRM ROW along both Quinpool & Pepperell. The project is planned in phase encroachments to reduce impacts to the surrounding community. During the demolition stage (phase 1), no ROW encroachments are anticipated leaving the sidewalks on Quinpool Road and Pepperell Street in front of the project open to the public; the exception being during a brief temporary sidewalk closure while the building's street wall demolition is completed within phase 1. While during site excavation and building construction (phase 2), the sidewalk fronting the project on both streets will be closed to the public. The pedestrian route on Quinpool Road will be maintained via on street protected walkway past the project site. This on street protected walkway will require an altered centerline, while maintaining two-way traffic along Quinpool Road. There is an existing neighboring construction site (The TED Project) located at civic 6325 Pepperell Street with a sidewalk and street encroachment that will be removed prior to this project.

The developer has arranged to hoard off a portion of the adjacent property at civic 1981 Pepperell Street, for concrete operations and material laydown area. Only during service work do we anticipate short term temporary lane closures on Pepperell. It is anticipated that tower crane assembly and disassembly will be stationed within the hoarded area off Pepperell Street on private property. The project borders commercial properties along its western and eastern property lines, a commercial property and vacant lot to the north across Quinpool Road and residential properties to the south opposite Pepperell Street. All neighbouring properties will remain undisturbed throughout the project.

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.

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1.2: Project Contact Information

The project team for the proposed development consists of:

| Role | Name | Contact | Address | Phone |
|----------------------------|---------------------------------------|-----------------|--|--|
| Developer | Dexel Developments Limited | | 1245 Barrington Street, Halifax, NS, B3J 1Y2 | (902) 446-9916 |
| Construction Manager | Dexel Developments Limited | Thomas Heighton | 1245 Barrington Street, Halifax, NS, B3J 1Y2 | (902) 830-3070 24 Hour Emergency Contact |
| Site Contractor | Atlantic Road Construction and Paving | Greg MacDonald | 6 Belmont Avenue, P.O. Box 89 Eastern Passage, NS B3G 1M7 | (902) 830-6411 |
| Traffic Control Company | Frontline Traffic Services | Phil Pruneau | 6 Belmont Avenue, P.O. Box 89 Eastern Passage, NS B3G 1M7 | (902) 818-5548 |
| Rodent Control Company | Rentokil Pest Control | Main Office | 51 Duke Street, Bedford, NS B4A2Z2 | (902) 835-2304 |

Section 2: Project Schedule and Logistics

The following is a brief summary of anticipated major project milestones broken down by phase:

2.1: Schedule

| Project Phase | Start Date | | End Date | Time Period |
|-----------------------------|--------------|---|--------------|-------------|
| Rodent Control Program | Sep 20, 2023 | - | Dec 20, 2023 | 3 months |
| Building Demolition | Nov 2, 2023 | - | Nov 29, 2023 | 1 Months |
| Site Excavation | Nov 30, 2023 | - | May 13, 2024 | 5.5 months |
| Substructure | May 15, 2024 | - | Sep 3, 2024 | 4 Months |
| Superstructure | Sep 4, 2024 | - | Jan 20, 2026 | 16.5 Months |
| Service Abandonments | May 14, 2024 | - | May 14, 2024 | 1 day |
| Service installs | May 14, 2023 | - | May 14, 2023 | 1 day |
| HRM Right of Way Flat Works | Sep 15, 2025 | - | Oct 15, 2025 | 1 months |
| Site Flat Works | Oct 1, 2025 | - | Oct 31, 2025 | 1 months |

2.2: Key Dates

Set up Phase 1 fencing along property lines

November 1, 2023

Sidewalk closure (Quinpool Road – building street wall demolition only)

Install Phase 2 Encroachment

November 30, 2023

- o Sidewalk closure (Quinpool Road & Pepperell Street)
- Street Lane closure (Quinpool Road)

Finish encroachment

January 31, 2026

Duration of encroachment

22 months

Temporary lane/road closures:

May 14, 2024

Pepperell Street service abandonmentsPepperell Street sewer service installs

May 14, 2024

o Pepperell Street Water service install

May 14, 2024

The encroachment areas are shown in the appendix for reference.

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2.3: Hours of Work

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

Monday to Friday: 7:00 a.m. – 9:30 p.m.
 Saturdays: 8:00 a.m. – 7:00 p.m.
 Sundays & Statutory Holidays: 9:00 a.m. – 7:00 p.m.

Servicing Work: Noted Above

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

Section 3 – Relevant Regulations & Guidelines

3.1: Occupational Health & Safety Regulations

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

- a) National Building Code of Canada, as adopted and modified under the Building Code Act and the Nova Scotia Building Code Regulations made under that Act;
- b) Nova Scotia Occupational Health and Safety Act, and the Nova Scotia Occupational Safety General Regulations made under that Act;
- 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;
- HRM TCM Supplement;
- m) G-200 Grade Alteration and Stormwater management;
- n) Admin Order 2018-005-ADM regarding encroachments; and
- o) Admin Order 2020-010-OP regarding stormwater management standards for development activities.



Section 4: Vehicle Management

Prior to any construction activity, all temporary workplace traffic control devices and signage will be in place as per the Nova Scotia Temporary Workplace Traffic Control Manual (latest edition). The traffic control company will install the signage and ensure that they are maintained throughout the project. This project's Traffic Control Plans (TCPs) are listed in the Appendix.

4.1: Vehicular Traffic Control

A series of Traffic Control Plans (TCP) have been prepared by the traffic control company and are provided in the Appendix.

We are proposing a street encroachment on Quinpool Road that will alter the street centerline to accommodate a temporary on street sidewalk route, two-way vehicle traffic will be maintained with two 3.0m travel lanes. Only during building service work do we anticipate short term temporary lane closures being required on Pepperell Street. It is anticipated that tower crane assembly and disassembly will be stationed within the hoarded area off Pepperell Street on private property. Please refer to the appendices for required encroachment plan and traffic control plans.

4.2: Haul Route and Staging Areas

The truck Haul Route Plan has been prepared by the traffic control company and is provided in the appendix.

The selected route is intended to minimize traffic congestion and maximize pedestrian safety. During all construction phases vehicles will enter and exit the site at the gate location(s) which will be clearly marked for function. During construction activities concrete and material deliveries shall be contained within the hoarded area or on private property. We anticipate these deliveries entering and exiting the west gate on Pepperell Street. Refer to appendix for concrete delivery schematic.

4.3: Vehicular Traffic Notifications

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

4.4: Emergency Vehicles

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

4.5: Parking

Un-metered parking is not permitted along Quinpool Road and Pepperell Street directly in front of the project site. However, stopping is permitted between 4pm-6pm Monday-Friday across the street from the project along Quinpool Road. As a result, on street parking will not be affected by this project, but stopping across Quinpool will be affected. It is noted that passenger vehicles are not permitted to park within any encroachment areas. To minimize parking requirements in adjacent neighbourhoods, site workers will utilize private property and encouraged to carpool or rely on public transit.

4.6: Bus Stops

There's an existing bus stop in the vicinity of the project site fronting civic 6390 Quinpool Road, near the corner of Quinpool Road and Oxford Street. However, bus service traveling along Quinpool will not be affected by this project.

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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.

During building demolition (phase 1), the project will temporarily close the sidewalk directly in front of the project on Quinpool during building street wall demolition and throughout excavation and building construction (phase 2), the project will close the sidewalk in front of the development on Quinpool Road and Pepperell Street, while providing a temporary 1.5m wide on street pedestrian route on Quinpool Road passing the encroachment. Pedestrian traffic on Pepperell Street will be maintained with use of the existing intersections at Oxford and Preston streets.

5.1: Pedestrian Protection

Pedestrians will be protected by physically distancing them from the project. A combination of rigid fencing and F-type concrete barriers with plywood fencing mounted above will delineate the encroachment. Rigid fencing will be covered with opaque covering to block view of the site. F-type concrete jersey barriers will be positioned on the street demarking the 1.5m temporary on street pedestrian route separating the pedestrians from vehicle traffic. Refer to the appendix for examples of the fencing and barriers.

5.2: Pedestrian Safety

Pedestrian safety will be maintained by implementing appropriate signage as shown on the PMP. All navigation and safety signage indicating alternative sidewalks and potential hazards will be inspected and maintained regularly.

5.3: Pedestrian Traffic Notifications

Notifications will be distributed to properties in the impacted area a minimum of five (5) days in advance of pedestrian traffic impacts. A sample traffic notification letter can be found in the appendix. HRM must be notified prior to issuing the notification to neighbours.

5.4: Visually Impaired Persons

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

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

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5.5: Accessibility

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

5.6: Hazard Assessment

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

5.7: Pedestrian Management Plans Rendering (PMPR) Signage

The need for a rendered map displayed for pedestrians showing the detoured pedestrian route is not anticipated for this project.

5.8: Pedestrian Detour Wayfinding Signage

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

Section 6: Encroachments & Disruptions

During excavation and building construction (phase 2), the project will incorporate the sidewalk on both streets directly front of the project and portion of the street lane on Quinpool Road. This will move pedestrians to the temporary 1.5m protected on street sidewalk route in front of the project on Quinpool Road. This will alter a portion of the street centerline and prohibit on street vehicle stopping on Quinpool Road directly across the street from the project site. It is noted that during building street wall demolition, a temporary sidewalk closure will also be required.

These encroachments are planned to be delineated by a combination of rigid construction fencing, interlocking F-type concrete barriers complete with plywood fence coverings and interlocking F-type concrete barriers on the street side of the protected on-street sidewalk route.

These encroachments are to keep the public away from the excavation zone of influence as well as provide additional room for site workers and deliveries.

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

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

6.1: Demolition

The existing building at civic 6324-6330 Quinpool Road will be demolished prior to site excavation and new building construction. A temporary sidewalk closure is required for the building street walls to be demolished safely away from the public.

6.2: Site Excavation

This includes deep excavation and removal of common site material. The development is planned to have 2 levels of underground parking below grade fronting Quinpool and Pepperell. If bedrock is found, the contractor will need to apply for a blasting permit and adhere to the HRM blasting by-law and conditions of the blasting permit.

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Alternatively, if a blasting permit can not be obtained the site's bedrock will be broken by a series of rock breakers to reach footing elevation.

6.3: Site Services Connection

This includes installation of new water and sewer laterals to their respective mains as well as decommissioning existing laterals which will be abandoned. The service installs will require modifications to the encroachment with temporary workplace signage incorporated (refer to the Service Installation Traffic Control Plans (TCP) in the appendix). HRM requires that this service work be limited to weekends only to minimize traffic disruptions. The target dates for this work are provided in the "Key Dates" section above with time of installations adhering to the Noise By-Laws noted above. The intent will be to complete this servicing work and reinstate the street as quickly as possible in order to minimize disruptions to the public.

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

The contractor intends to reinstate the street cut during the season of work. It is noted that street cuts cannot be left gravel or open. HRM reinstatement specifications must be met, and the travel way must be hard surfaced prior to reopening to the public. Asphalt, concrete curb and sidewalk reinstatement must be completed within 72 hours of disturbance and will be considered temporary if reinstated after October 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 HRM infrastructure will be reinstated within the encroachment area and/or be completely replaced. This includes reinstatement of the HRM tree lawn, sidewalk and curb and gutter post construction. It is anticipated that sidewalks across the street will not be impacted by excavation or other construction activities. However, while efforts will be made to avoid damage, it is anticipated that additional portions of existing curbs, gutters, and sidewalks may become damaged during the construction process which would require repairs or replacement. Pending HRM's review prior to and after construction and subject to damage due to construction activities, the developer acknowledges that items may require to be fully replaced rather than repaired. The developer also acknowledges that any costs incurred to repair or replace this public infrastructure are the responsibility of the owner. For reinstatement timeline requirements, it is noted that asphalt, concrete curb and sidewalk reinstatement must be completed within 72 hours of disturbance and will be considered temporary if reinstated after October 31st or prior to May 1 in which case permanent reinstatement will be completed by June 15 of the following construction season.

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7.2: Protection of Trees

There is one (1) HRM street tree directly in front of the project within the public right-of-way of Pepperell Street, and one (1) HRM street tree within the public right-of-way directly adjacent to the hoarded area on Pepperell Street. It is noted that HRM street trees shall not be touched prior to approval and/or compensation agreements between the developer and HRM Urban Forestry are in place. Adjacent street trees are to be protected during construction in accordance with the HRM Tree Bylaw (T-600). Refer to HRM tree protection detail in the appendix.

Due to the tree location, we are proposing to remove the one (1) HRM street tree within the public right-of-way directly in front of the project on Pepperell Street and replace this tree prior to project completion as per HRM guidelines.

7.3: Line Painting and Temporary Crosswalks

An altered centerline is proposed for this project. Refer to the line painting schematic in the appendix.

7.4: Street and Right-of-Way Cleaning

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

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

7.5: Protection from Inclement Weather

To protect the public from construction debris during inclement weather, the project site will be enclosed by fencing complete with dust control covering, the site will be regularly reviewed and cleaned, with loose items secured when not in use.

7.6: Storm Water Management

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

7.7: Noise, Dust and Emission Control

The contractor will at all times adhere to the HRM Noise Bylaw (N-200) unless approved under HRM exemption process. No work will take place on the project site outside those hours identified in section 2 of this report, unless HRM grants an exception.

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

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

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

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

7.8: Rodent Control

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

The RCP was engaged two weeks prior to the commencement of site demolition to help to lower the number of active rodents in the project area. Bait stations positioned along existing buildings and fence lines prior to excavation. Bait stations positioned along the edges of the project and secured in place using wooden stakes (for open sodded and dirt locations), weighted patio stones (behind walls and on paved areas), and zip-ties (fixed to fences) as per typical industry standards.

Refer to the appendix for a copy of the Rodent Control Plan.

Section 8: Site Protection & Hoarding

8.1: Barriers & Fences

The encroachment will be delineated with a mix depending on the street and proximity to street trees. A combination of rigid construction fencing and interlocking F-type concrete jersey barriers complete with plywood fencing with a total height (concrete barrier and fencing structure) being 1.8m or 6ft as per the noted administrative order. This fencing will be open rigid fence or covered with plywood of high quality which will extend a minimum 3m from the public right-of-way. This screening is described in the appendix and will block passersby or tourists view of the construction site. Throughout the project, fencing will be situated to not obstruct vehicle sight lines. In addition, the adjacent street tree fronting Pepperell Street will be protected as per HRM's tree protection details with orange snow fencing delineating the existing tree lawn between the sidewalk and street curb.

Along the private sidelines where vehicular traffic and non-vehicular traffic is present, the hoarding will be delineated by a combination of concrete waste blocks with plywood fencing mounted on top and rigid fencing being 1.8m or 6ft as per the noted administrative order and weighted modular 1.5m (5ft) high fencing or existing fencing where it is at least 1.5m tall. All fencing will have opaque dust control mesh and must be anchored down to prevent unintentional movement or overturning due to snow or wind loads.

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

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Installation of F-Type concrete barriers, concrete waste blocks, fencing and covering will take place during regular working hours as noted above. This work will be scheduled by the contractor after the HRM's pre-construction meeting has been held. HRM will coordinate this pre-construction meeting; the 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(s) in the appendix. All work and any traffic interruptions will be coordinated by the contractor who will notify HRM a minimum of 5 business days before work is scheduled to begin.

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

8.2: Snow removal

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

The contractor will clear snow from outside the jersey barriers to keep the edge of the vehicle travel lane clear of snow and ice build up on Quinpool and Pepperell and fencing along the Quinpool and Pepperell.

8.3: Gate Access and Egress

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

Construction access gates are planned to be stationed off Quinpool Road at the project compound along the street line (phase 1) and behind the curb line on Pepperell at the hoarded area and proposed driveway (phase 2) to facilitate deliveries. Gates are to swing into site, remain closed when not in use and locked after hours. The phase 1 encroachment is planned to have one (1) gate and phase 2 will have two (2) gates.

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

8.4: Hoarding Aesthetics

The site hoarding will resemble that shown in the appendix; encroachment fee reductions are not anticipated however may be revisited as construction progresses. The application for reduction can be applied for after the project is started, and CMP fencing is erected; signage samples shall be submitted to HRM with the application for reduction.

8.5: Sight Lines

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

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8.6: Project Information and Contacts

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

Section 9: Lifting, Hoisting, and Crane Operations

9.1: Crane Use Overview

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

It is anticipated that tower crane assembly and disassembly will be stationed within the hoarded area off Pepperell Street on private property.

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

Depending on the stage of construction, concrete or transport trucks will be stationed within the hoarded area or private property during concrete operations. (See concrete delivery schematic within the appendix).

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

9.2: Transport Canada and Nav Canada Regulations

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

9.3: Aerodromes

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

Section 10: On-Site Safety and Security

10.1: Site Safety and Security Overview

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

- a) All workers will be required to have proof of up-to-date safety training;
- a) Personal protective equipment (PPE) will be required for all personnel on site;
- b) Adequate signage will be placed outside the hoarding, which will warn of hazards that may exist;

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- c) Gates will be locked and the perimeter fencing secured to provide security against public access during off work hours and will be monitored during operation;
- d) Hoarding will clearly state "No Trespassing Construction Personnel Only" & PPE requirements will be clearly identified (e.g., "Hard Hats and Safety Footwear Must Be Worn Beyond This Point");
- e) Regular safety inspections will be conducted to ensure suitability of hoarding and other safety devices;
- f) Emergency contact information to be prominently posted as per the Project Information Board.

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

The contractor will adhere to the procedures stipulated in the Haul Route Plan for delivery of materials. Delivery vehicles will use the designated gates for entry and exit. Timing of deliveries will be coordinated to have the least possible negative impact on regular traffic. The staging and delivery area will be coordinated by the delivery companies and site personnel, concrete and material delivery trucks will be housed within the hoarded area or private property accessed from Pepperell Street.

10.3: Emergency Access & Egress

The site will be accessible through gates to facilitate construction vehicle access. In cases of emergencies, on-site workers will exit the project site through these gates. These gates will remain closed but unlocked at all times when workers are on site in case of emergency allowing unrestricted emergency response units access to the site. Gates will be locked and secured afterhours to provide security against public access during off work hour. Emergency contact information will be posted on project information boards surrounding the site, refer to the CMP plan for details.

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

10.4: Security Site Lighting

Security site lighting is not anticipated for this project.

10.5: Smoking Areas

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

10.6: Fire Suppression Systems

There are two (2) existing fire hydrants adjacent to the project site. One (1) along Quinpool Road stationed behind the curb opposite the project site and one (1) along Pepperell Street directly fronting the project site; that will remain outside the project limits. Additionally, any existing fire department connections (FDC) adjacent to the site will remain outside the project area and distanced from construction activities. Fire hydrants, along with any existing FDCs will be accessible to firefighters throughout all phases of the project.

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

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Section 11: Pre-Construction Consultation & Meeting

11.1: Pre-CMP Community Consultation

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

11.2: Project Information and Contacts

To encourage communication between the project team and the public, contact information will be provided on Project Information Boards; these will be posted prominently around the project site on the fencing; refer to the appendix for a copy of the Project Information Board and the CMP Plan for the planned locations. Information on signage size and materials is outlined in the appendix.

11.3: Preconstruction Meeting

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

Regards,

Servant, Dunbrack, McKenzie & MacDonald Ltd.

Geoff MacLean, P.Eng.

Project Engineer

2:\SDMM\37000-37999\37775\\CMP\\IFR\6324-6330 Quinpool Rd - CMP (\IFR) - 37776.docx

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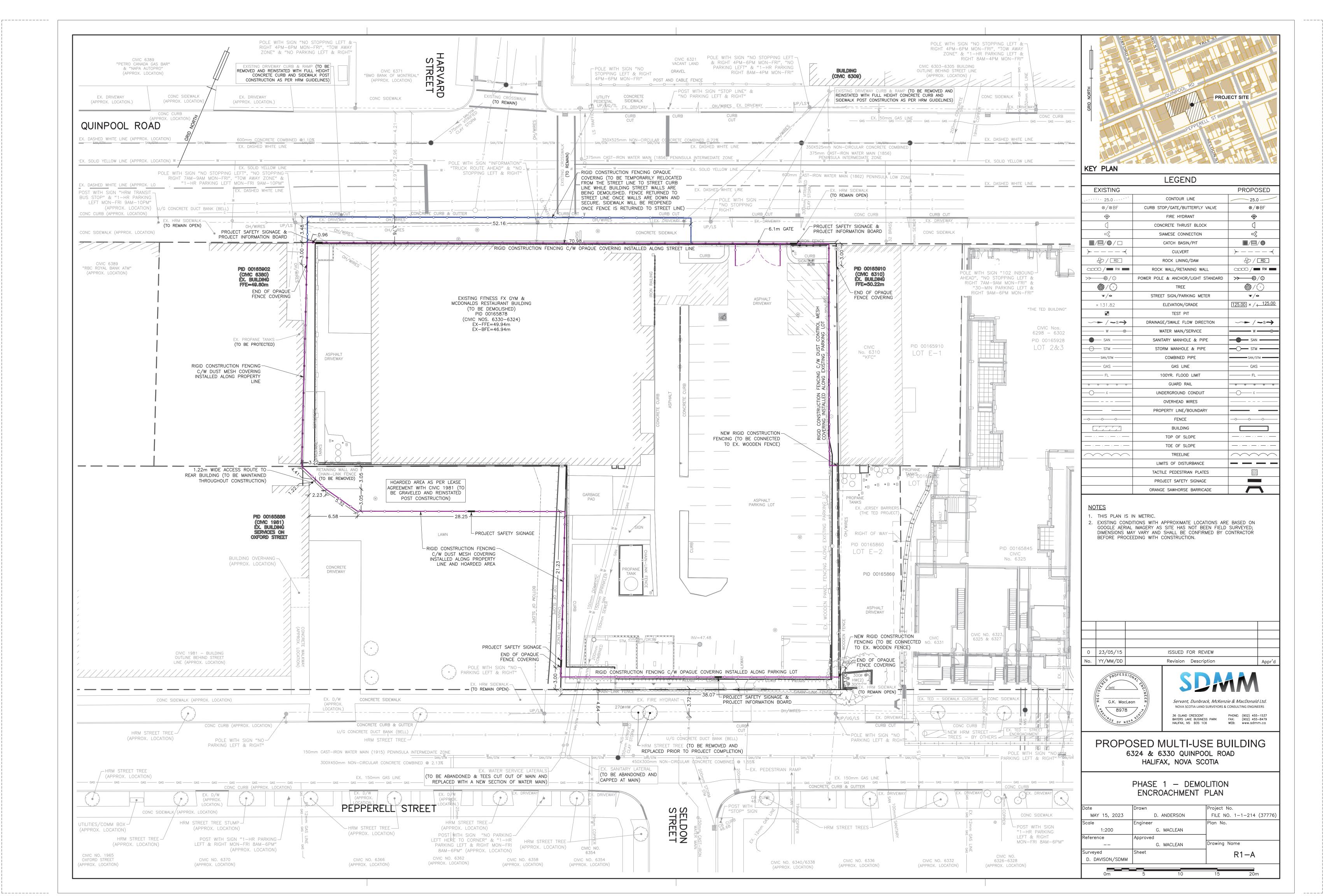
APPENDIX

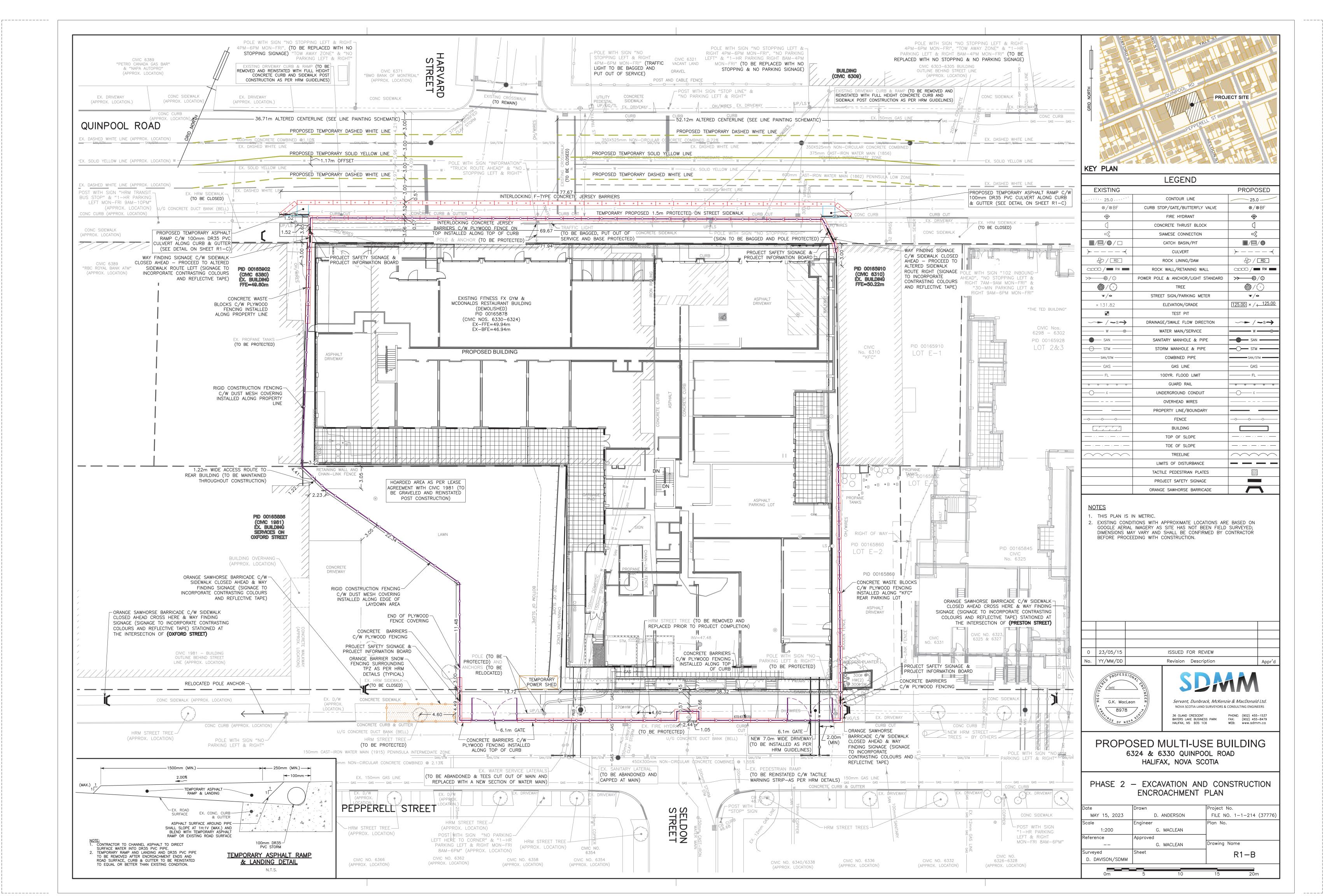
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Appendix A – Encroachment Plan

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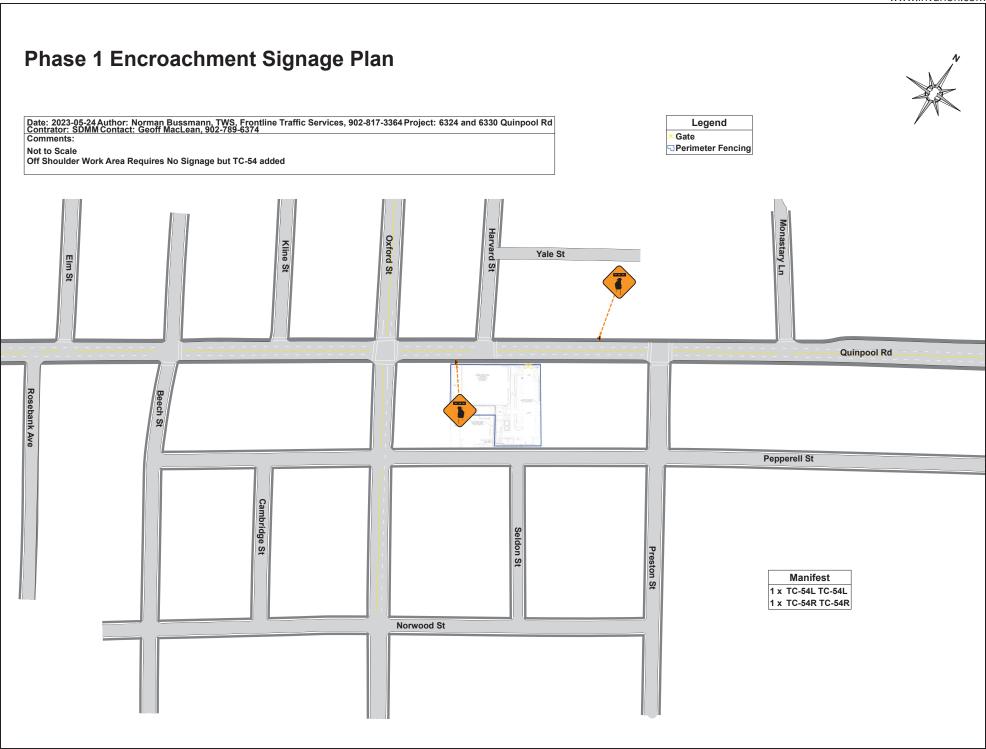


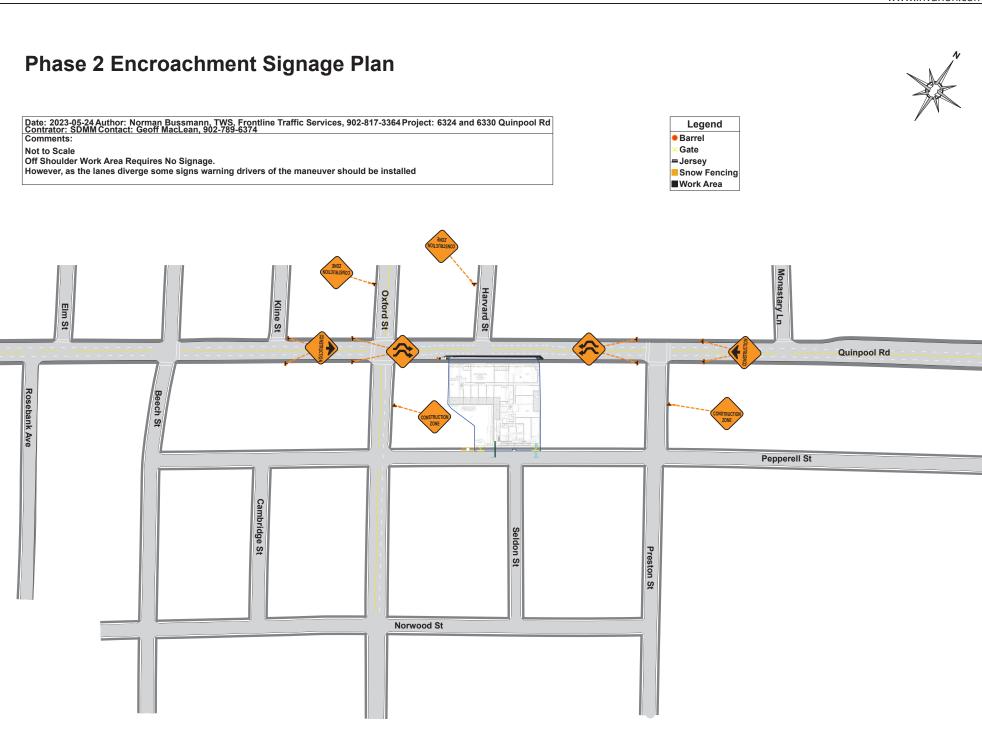


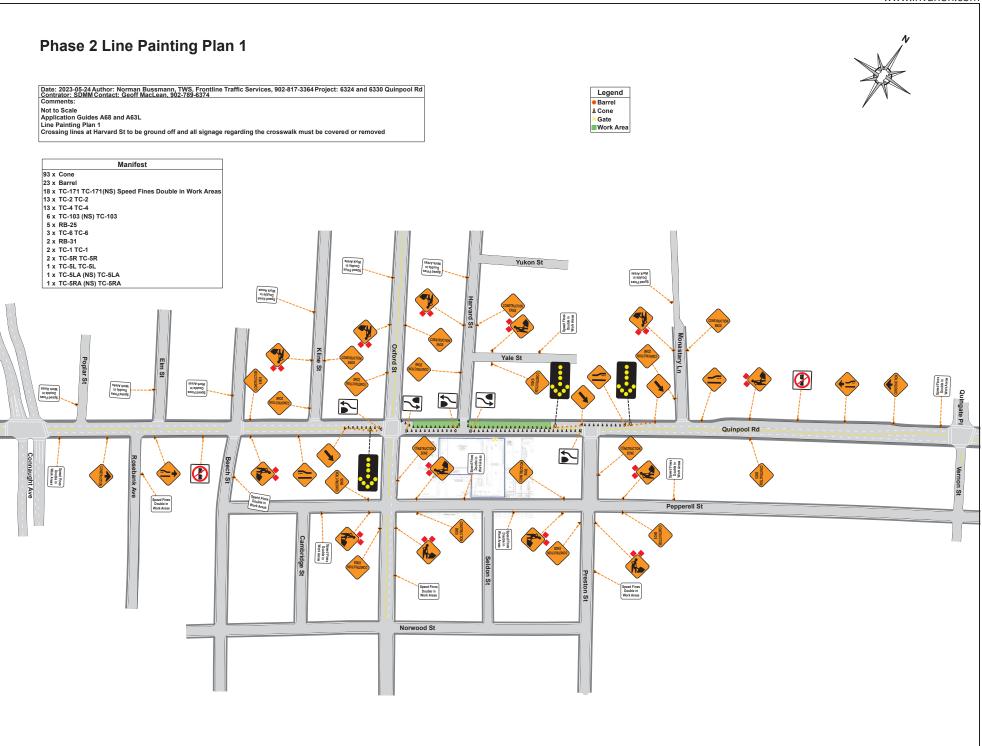


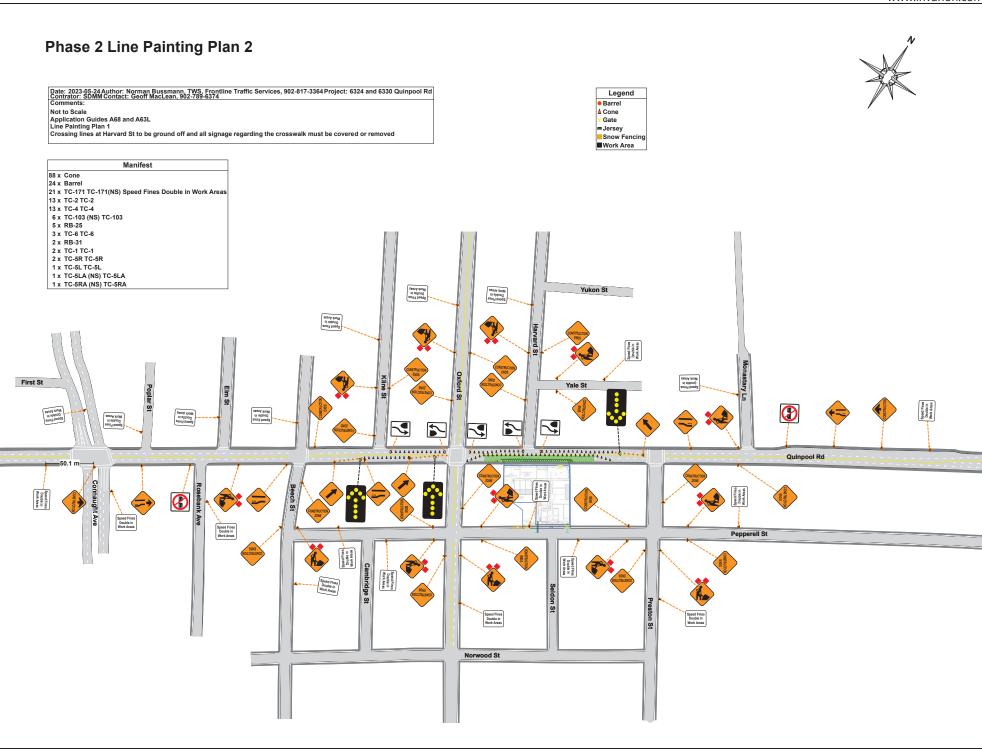
Appendix B – Traffic Control Plans TCP

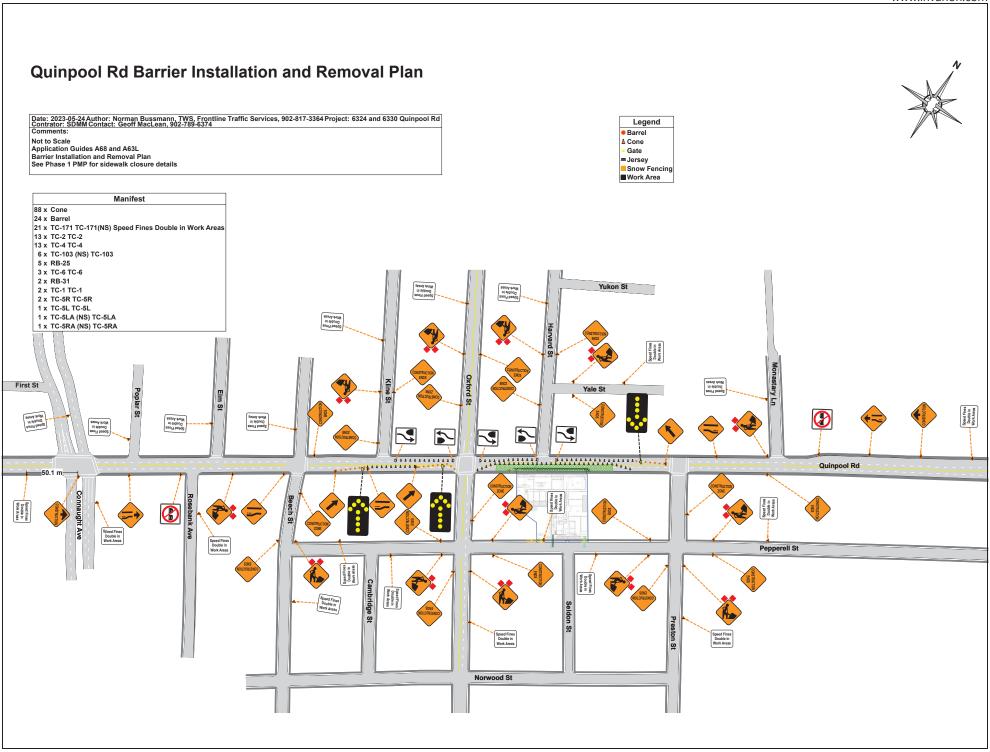
Page | B Job No. 37776











Quinpool Rd Curb and Sidewalk Renewal Plan

Legend

Barrel

∆ Cone

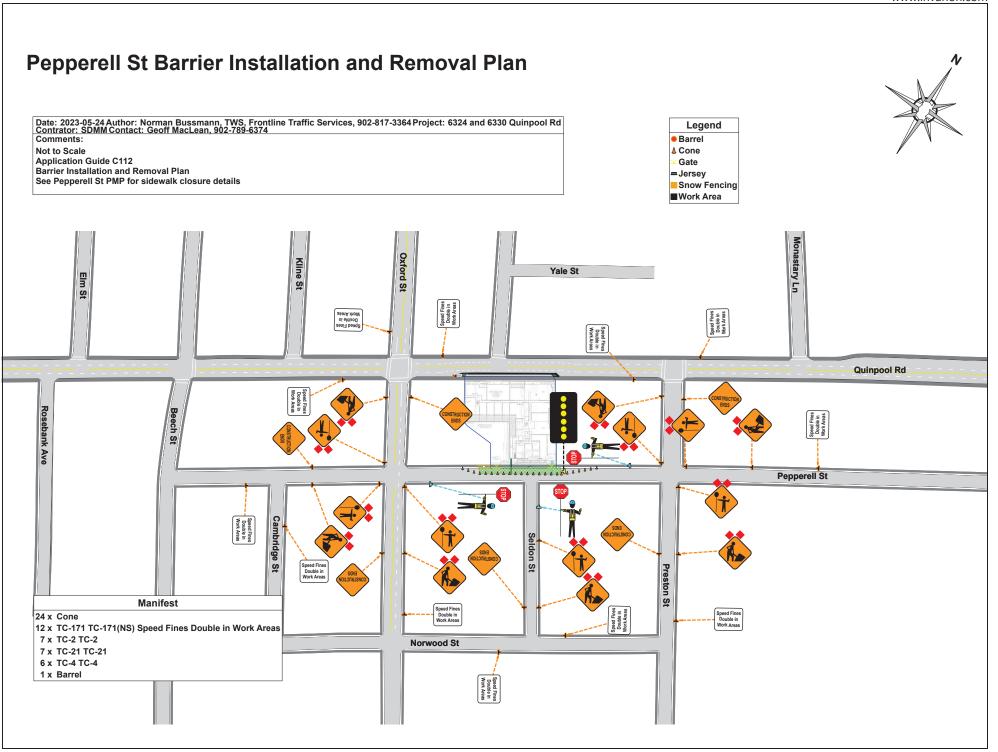
Gate

Date: 2023-05-24 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 6324 and 6330 Quinpool Rd Contrator: SDMM Contact: Geoff MacLean, 902-789-6374

Comments:
Not to Scale
Application guide A63R

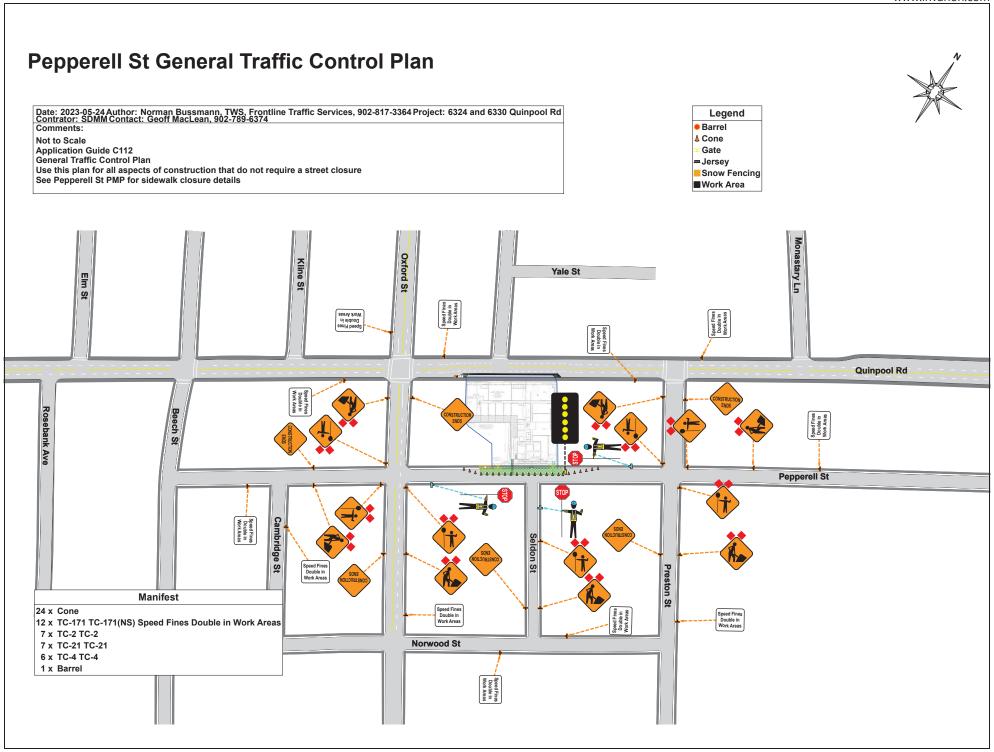
Curb and Sidewalk Renewal Plan
See Phase 1 PMP for sidewalk closure details

 ₩ Work Area Manifest 19 x Cone 12 x TC-171 TC-171(NS) Speed Fines Double in Work Areas 8 x TC-2 TC-2 8 x TC-4 TC-4 7 x Barrel 4 x TC-5R TC-5R Harvard St 1 x RB-31 1 x TC-1 TC-1 1 x TC-5RA (NS) TC-5RA 1 x TC-6 TC-6 Speed Fines Double in Work Areas Oxford St Yale St Elm St Speed Fines Double in Work Areas Speed Fines ni elduod Work Areas Quinpool Rd Pepperell St Preston St Speed Fines Double in Work Areas



Crane Installation and Removal Plan Date: 2023-05-24 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 6324 and 6330 Quinpool Rd Contrator: SDMM Contact: Geoff MacLean, 902-789-6374 Comments: Legend Barrel Not to Scale Gate Crane Installation and Removal Plan Application Guide C114 =Jersey Snow Fencing See Pepperell St PMP for sidewalk closure details ■Work Area Yale St Elm St Quinpool Rd Pepperell St Manifest 21 x Barrel 16 x TC-171 TC-171(NS) Speed Fines Double in Work Areas STREET LOCAL CLOSED TRAFFIC ONLY 13 x TC-10 TC-10 8 x TC-2 TC-2 7 x TC-4 TC-4 3 x TC-64D TC-64D Norwood St Speed Fines Double in Work Areas

Service Laterals Installation and Decommissioning Plan Date: 2023-05-24 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 6324 and 6330 Quinpool Rd Contrator: SDMM Contact: Geoff MacLean, 902-789-6374 Legend Comments: Barrel Not to Scale Gate Application Guide C114 =Jersey Service Laterals Installation and Decommissioning Plan Snow Fencing See Pepperell St PMP for sidewalk closure details ■Work Area Speed Fines ni elduod Nork Areas Oxford St Yale St Elm St St Quinpool Rd Rosebank Ave Pepperell St STREET LOCAL CLOSED TRAFFIC ONLY Manifest 21 x Barrel **Norwood St** 15 x TC-171 TC-171(NS) Speed Fines Double in Work Areas 13 x TC-10 TC-10 8 x TC-2 TC-2 7 x TC-4 TC-4 3 x TC-64D TC-64D





Appendix C – Haul Route Plan

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Haul Route Plan Phase 1

Date: 2023-05-24 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 6324 and 6330 Quinpool Rd Contrator: SDMM Contact: Geoff MacLean, 902-789-6374

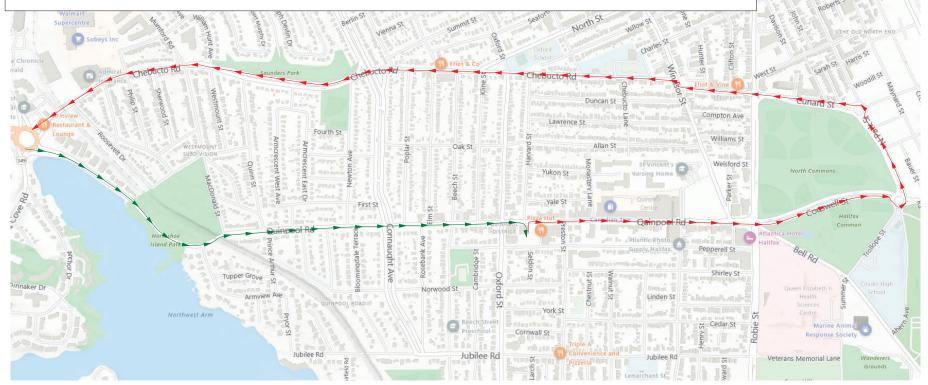
Comments:

Not to Scale

Haul Route Plan Phase 1

Inbound via Quinpool Rd

Outbound via Quinpool Rd to Cogswell St to north Park St to Cunard St to Chebucto Rd



Legend

▼ Haul Route Inbound

▼ Haul Route Outbound

Haul Route Plan Phase 2

Date: 2023-05-24 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 6324 and 6330 Quinpool Rd Contrator: SDMM Contact: Geoff MacLean, 902-789-6374

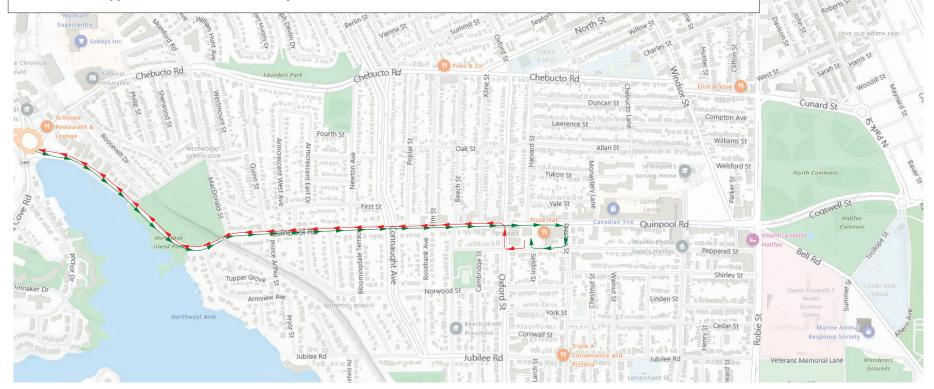
Comments:

Not to Scale

Haul Route Plan Phase 2

Inbound via Quinpool Rd to Preston St to Pepperell St to site

Outbound via Pepperell St to Oxford St to Quinpool St



Legend

▼ Haul Route Inbound

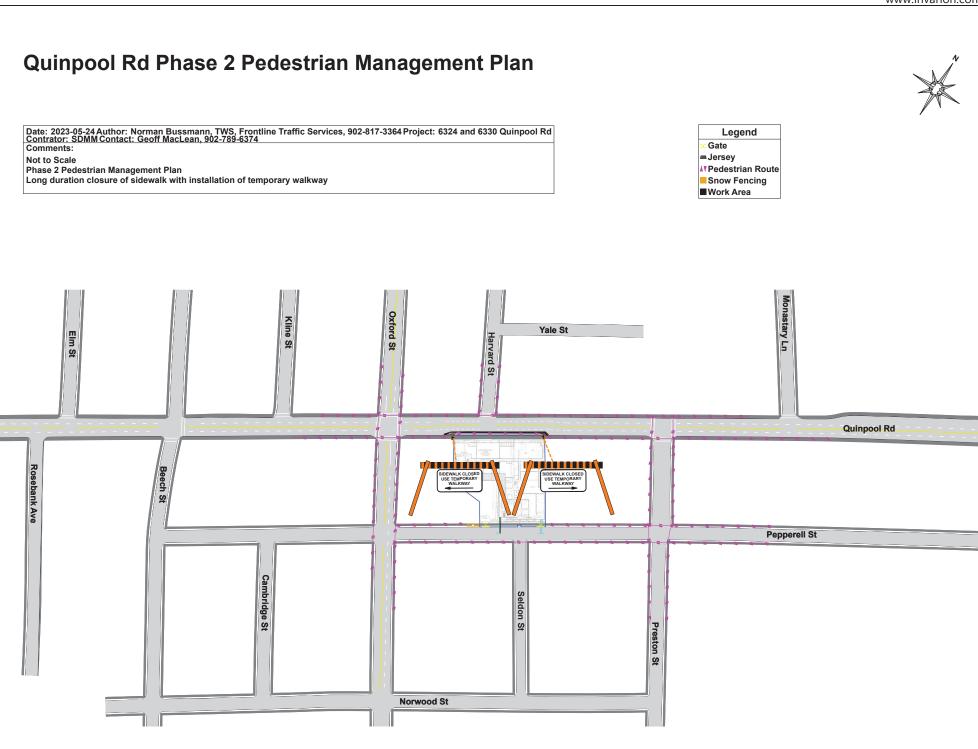
▼ Haul Route Outbound

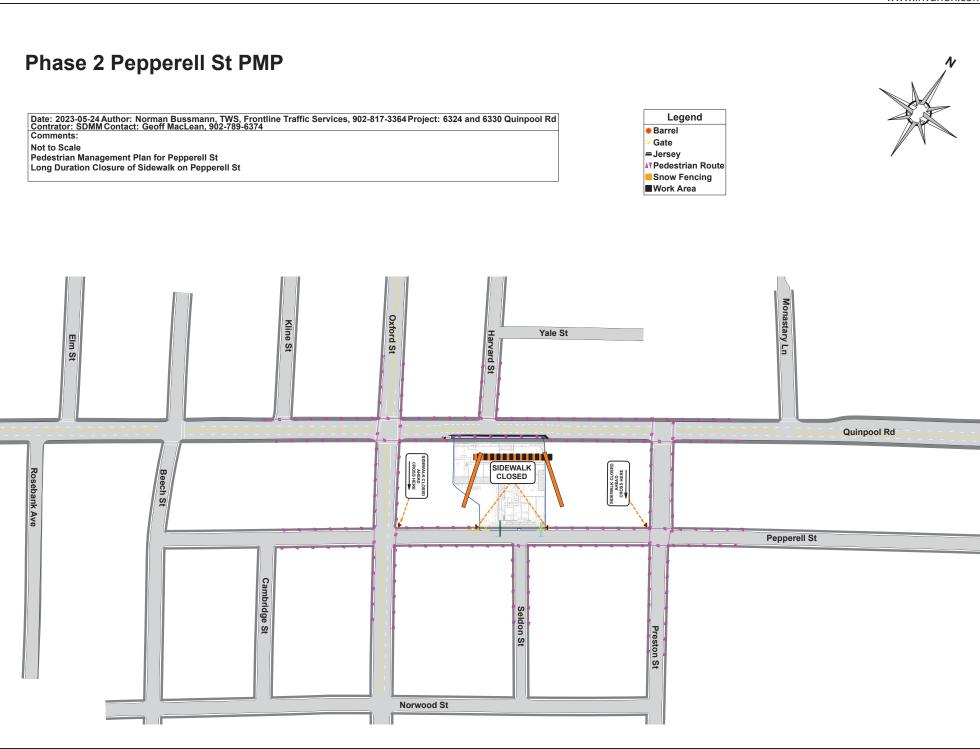


Appendix D – Pedestrian Management Plan (PMP)

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Quinpool Rd Phase 1 Pedestrian Management Plan Date: 2023-05-24 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: 6324 and 6330 Quinpool Rd Contrator: SDMM Contact: Geoff MacLean, 902-789-6374 Comments: Legend Area of Sidewalk Closure Not to Scale Phase 1 Pedestrian Management Plan Pedestrian Route For short duration closure of sidewalk Yale St Elm St Kline St Oxford St Harvard St Quinpool Rd SIDEWALK CLOSED Pepperell St Cambridge St Norwood St



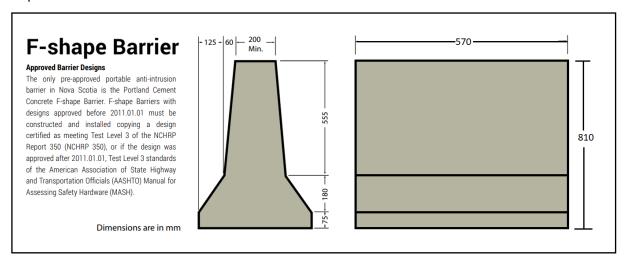


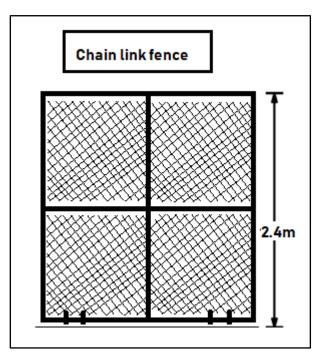


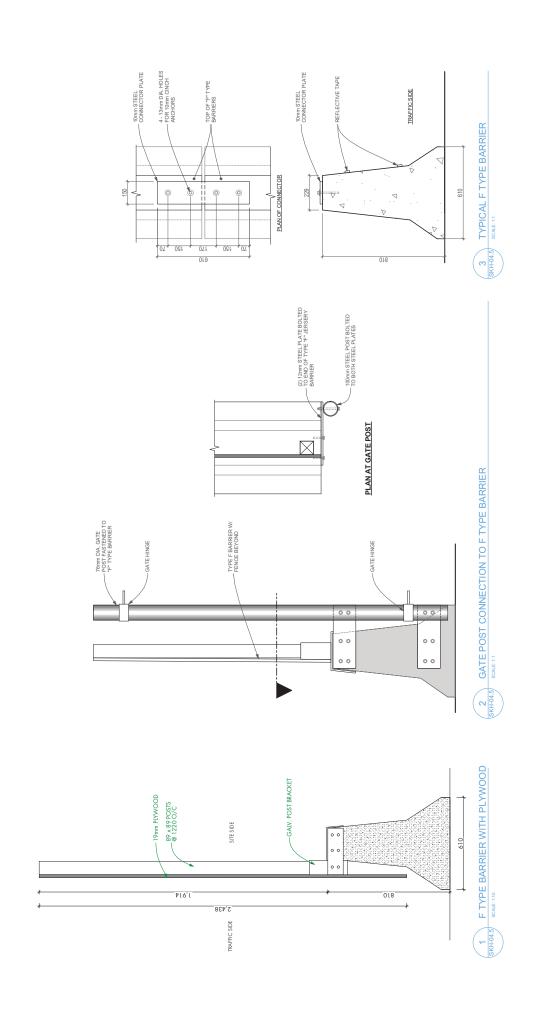
Appendix E – Barrier, Waste Blocks, Fence & Gates Information

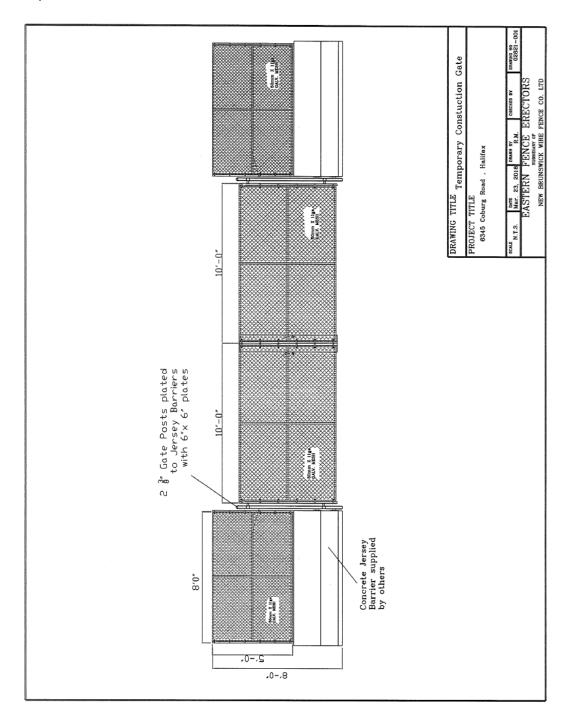
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Sample Barrier & Fence Details









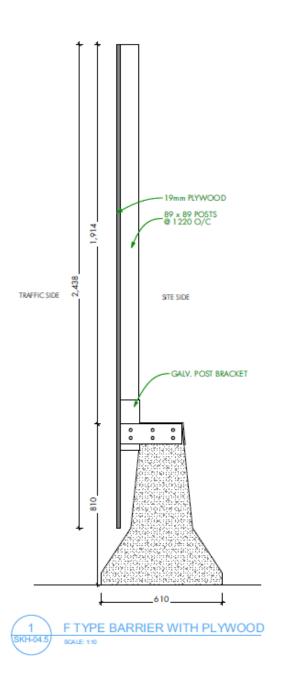


Appendix F – Hoarding Information

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

The developer plans to utilize wooden fencing mounted atop F-type concrete jersey barriers.





Appendix G – Project Information Board

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November 2023 – January 2026

PROPOSED QUINPOOL & PEPPERELL RESIDENTIAL DEVELOPMENT

9 Storey - Mixed Use Building

154 Residential Units including 4
Premium Townhouse Units

Ground Level Commercial Space Fronting Quinpool Road

2 Levels Underground Parking

2- Level 9 Roof Top Penthouse Units with Rooftop Terraces

Mixture of 1-3 Bedroom + Den Units

Developer:

Dexel Developments Limited 1245 Barrington Street, Halifax, NS, B3J 1Y2

Construction Manager:

Dexel Developments Limited 1245 Barrington Street, Halifax, NS, B3J 1Y2

24 Hour Contact:

Thomas Heighton – (902) 830-3070

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



Appendix H – Project Safety Signage

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Appendix I – Project Signage Specifications

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Signage Specifications: Project Signage shall;

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

Samples







Appendix J – Sample Traffic Notification Letter

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Proposed Mixed Use Building – Quinpool Road

DRAFT NOTIFICATION LETTER

Dexel Developments Limited

1245 Barrington Street Halifax, NS, B3J 1Y2 Phone: (902) 446-9916

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,

Atlantic Road Construction and Paving

Greg MacDonald Project Manager



Appendix K – Vehicular and Pedestrian Hazard Assessment

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Project Date: Location: VEHICULAR & PEDESTRIAN HAZARD ASSESSMENT

| _ | VEHICULAR & PEDESTRIAN HAZARD ASSESSMENT | | | | | | | | |
|-----|---|----------------|--|---|---|--|--|--|--|
| No. | Hazard: | Project Phase: | Vehicular Impacts: | Mitigation Methods: | Pedestrian Impacts: | Mitigation Methods: | | | |
| 1 | Building Demolition | Demolition | Debris may fall off building, damaging vehicles. | Spotters to be present to ensure vehicles temporarily do not park adajcent to site during front wall tear down. | Debris may fall off building, injuring pedestrians. | Temporarily close sidewalks adjacent to site, moving pedestrians to opposite side of street. | | | |
| | Excavation | | Vehicles may enter project site and fall down excavation. | Place concrete barriers along travel ways. Concrete barriers and existing curbs to prevent vehicle entry. | | Place concrete barriers/rigid fencing around entire project site. | | | |
| 2 | | Excavation | Vehicle weight may surcharge excavation, causing excavation wall failure. | Close sidewalks & driveways adjacent to project site, moving vehicles farther away from excavation. | Pedestrians may enter project site and fall down excavation. | | | | |
| 3 | Rock Blasting | Excavation | Blasted rock projectiles may strike vehicles. | Close sidewalks & driveways adjacent to site, moving vehicles farther away from blasted rock. | Blasted rock projectiles may strike pedestrians. | Install solid plywood hoarding along rigid fence adjacent to blasting zone. | | | |
| 4 | Construction Waste | All Phases | Vehicles may be struck by construction waste. | The contractor shall keep the project site and surrounding areas clean and free of construction debris. | Pedestrians may be struck by construction waste. | The contractor shall keep the project site and surrounding areas clean and free of construction debris. | | | |
| 5 | Vehicular & Pedestrian Activities | All Phases | Drivers and pedestrians may become confused or impatient with construction activities. Pedestrians may walk in unmarked crosswalks or in vehicular travel areas. Drivers may fail to obey traffic signage. | Vehicular and pedestrian signage will be posted prominently around the project site to facilitate pedestrian movement. Notification will be sent prior to all traffic interruptions. | Drivers and pedestrians may become confused or impatient with construction activities. Pedestrians may walk in unmarked crosswalks or in vehicular travel areas. Drivers may fail to obey traffic signage. | Vehicular and pedestrian signage will be posted prominently around the project site to facilitate pedestrian movement. Notification will be sent prior to all traffic interruptions. | | | |
| 6 | Heavy Machinery Operation | All Phases | Heavy machinery or vehicles may break down or overturn, damaging other vehicles. | The contractor shall maintain safe distances between vehicles and heavy machinery on-site.Concrete barriers will be installed to separate construction vehicles from public traffic. | Heavy machinery or vehicles may break down or overturn, injuring pedestrians. | The contractor shall maintain safe distances between pedestrians, vehicles, and heavy machinery. Rigid fences will be installed to separate construction vehicles from pedestrians. | | | |
| | | | Heavy machinery or vehicles may overturn due to uneven terrain, damaging other vehicles. | The contractor shall maintain safe distances between vehicles and heavy machinery on-site and ensure travel routes are kept flat. | Heavy machinery or vehicles may overturn due to uneven terrain, injuring pedestrians. Pedestrians may walk on uneven terrain causing them to twist their ankles or fall. | The contractor shall maintain safe distances between pedestrians, vehicles, and heavy machinery and ensure travel routes are kept flat. | | | |
| 7 | Construction Signage | All Phases | Construction signage may strike vehicular traffic. | | 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. | | | |
| 8 | Dangerous Materials | All Phases | Flammable, explosive, & hot materials may damage vehicles if not properly maintained & stored. | The contractor will use and store dangerous materials properly as per manufacturers' specifications. | Flammable, explosive, & hot materials may injure pedestrians if not properly maintained & stored. | The contractor will use and store dangerous materials properly as per manufacturers' specifications. | | | |
| 9 | Hoisting Operations | Superstructure | Precast concrete panels and other items hoisted may fall from heights and damage vehicles. | Proper hoisting and lifting techniques will be used to ensure that materials do not fall from heights. F-Type concrete barriers will be installed such that loads are never suspended above the public realm. | Precast concrete panels and other items hoisted may fall from heights and injure pedestrians. | Proper hoisting and lifting techniques will be used to ensure that materials do not fall from heights. Pedestrians will be moved to opposite sides of street from the project site or onto temporary sidewalks such that loads are never suspended above the public realm. | | | |
| 10 | Reinstatement of Public Infrastructure & Service Installation | Superstructure | Heavy equipment and hot concrete used during public infrastructure reinstatement and service installation may cause damage to vehicles. | The contractor shall maintain safe distances between vehicles and heavy machinery on-site. Concrete barriers will be installed to separate construction vehicles from public traffic during public infrastructure reinstatement and service installation. | Heavy equipment and hot concrete used during public infrastructure reinstatement may injure pedestrians. | The contractor shall maintain safe distances between pedestrians, vehicles, and heavy machinery. | | | |
| 11 | Fallen debris | Superstructure | Debris may fall from upper stories of the new building causing damage to vehicles. | F-Type concrete barriers will be installed such that a safe distance is maintained between the building envelope and vehicular traffic. | Debris may fall from upper stories of the new building injuring pedestrians. | Construction of upper building levels will be set back from the property line/rigid fencing, this separating pedestrians from potential fallen debris. | | | |

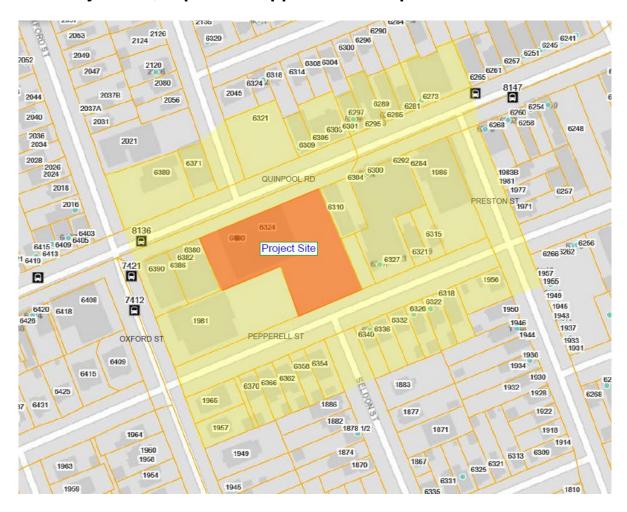


Appendix L – Community Consultation Records

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COMMUNITY CONSULTATION MAP OVERVIEW

Project - Quinpool & Pepperell Development - Residential



Notification Letter

Date:

6324 – 6330 Quinpool Road – Building Construction Information Meeting

Dear Neighbour,

As you may be aware, we are planning a multi residential and commercial building construction project to replace our current commercial building between Quinpool Road and Pepperell Street.

If you are interested in receiving more information about our construction plans, practices, schedule or 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.

Lawen Group

1245 Barrington Street,

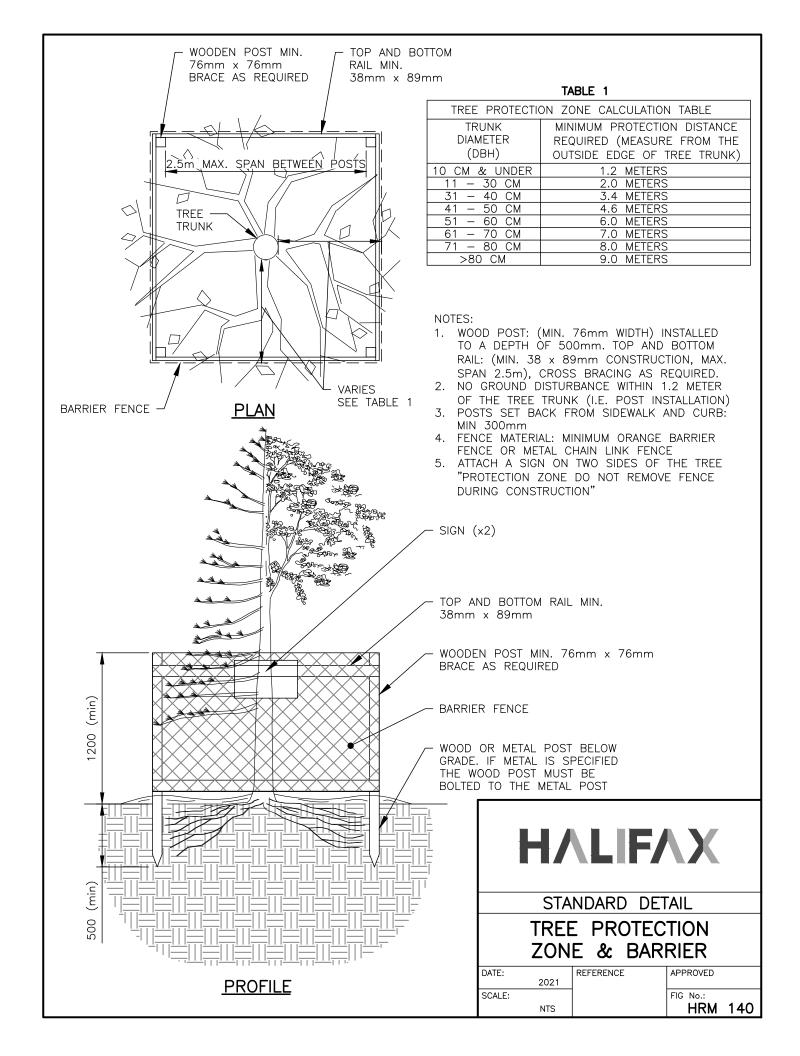
Halifax, NS

B3J 1Y2



Appendix M – HRM Tree Detail

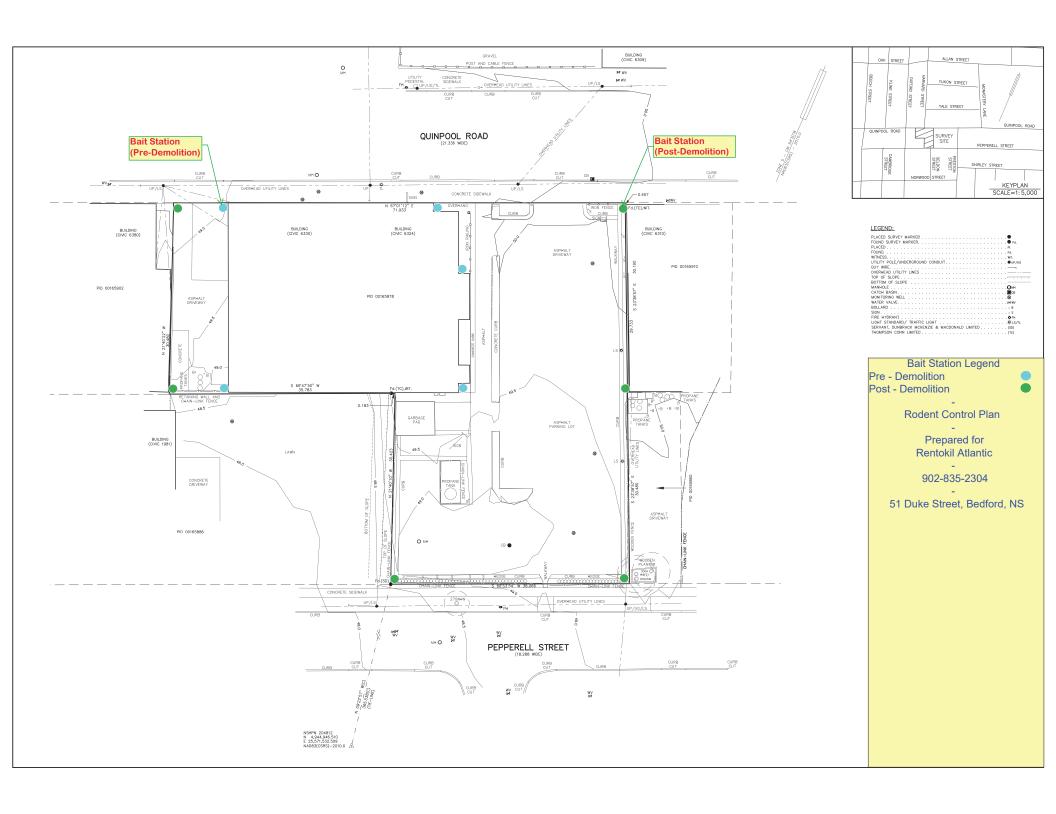
Page | M Job No. 37776





Appendix N – Rodent Control Plan

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THE MOST ADVANCED LOW-PROFILE BAIT STATION







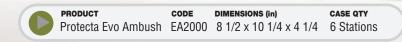
PRODUCT FEATURES:

- ▶ Single locking mechanism for quick servicing
- ▶ Removable tray for easy cleaning
- ▶ Locking bait rods won't fall out during cleaning
- Dog & child tamper-resistant
- Can hold:

4 - 1 oz. bait BLOX on 4 vertical rods

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

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





More Than Meets The Eye

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

www.belllabs.com

ALL-WEATHER BLOX TM









KILLS RATS, MICE & MEADOW VOLES*

Kills Warfarin Resistant Norway Rats

KEEP OUT OF REACH OF CHILDREN CAUTION

See back panels for First Aid and additional precautionary statements.

ACTIVE INGREDIENT:

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

 OTHER INGREDIENTS†:
 99.995%

 †Contains Denatonium Benzoate
 TOTAL
 100.000%

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

FIRST AID

HAVE LABEL WITH YOU WHEN OBTAINING TREATMENT ADVICE

IF SWALLOWED:

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

IF ON SKIN OR CLOTHING:

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

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

NOTE TO PHYSICIAN

If swallowed or absorbed through the skin, this material may reduce the clotting ability of the blood and cause bleeding. If ingested, administer Vitamin K₁ intramuscularly or orally. Repeat as necessary based on monitoring of prothrombin times.

TREATMENT FOR PET POISONING

If animal eats bait, call veterinarian at once.

NOTE TO VETERINARIAN

Anticoagulant Bromadiolone: For animals ingesting bait and/or showing poisoning signs (bleeding or elevated prothrombin times), give Vitamin K1. If needed, check prothrombin times every 3 days until values return to normal (up to 30 days). In severe cases, blood transfusions may be needed.

DIRECTIONS FOR USE

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

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

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

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

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

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



KILLS RATS, MICE, AND MEADOW VOLES*

Kills Warfarin Resistant Norway Rats

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

ACTIVE INGREDIENT:

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

KEEP OUT OF REACH OF CHILDREN CAUTION

See side panels for First Aid and additional precautionary statements.

STORAGE AND DISPOSAL

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

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

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

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

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

NET WEIGHT: 18 lbs (8.2 kg)

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

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

DIRECTIONS FOR USE (Continued from other panel)

Burrow baiting with Contrac All-Weather Blox is prohibited.

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

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

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

APPLICATION DIRECTIONS:

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

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

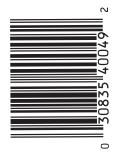
an uninterrupted supply of fresh bait for at least 15 days or until signs of mouse or meadow vole* activity cease.

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

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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

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



User Safety Requirements

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

ENVIRONMENTAL HAZARDS

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

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

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



DETEX®BLOX with LUMITRACK

SAFETY DATA SHEET

ACCORDING TO REGULATION: OSHA Hazard Communication Standard 29 CFR 1910.1200

DATE OF ISSUE: January 2016

PREPARED BY:

CAR

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: DETEX® BLOX with LUMITRACK

EPA Registration Number: NA

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

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

MANUFACTURER/SUPPLIER:

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

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

SECTION 2. HAZARDS IDENTIFICATION

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

Signal Word: None

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

SECTION 4. FIRST AID MEASURES

Description of first aid measures

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

Most important symptoms and effects, both acute and delayed

Non-Toxic

Advice to physician: Non-Toxic Advice to Veterinarian: Non-Toxic

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media: water, foam or inert gas.

Unsuitable Extinguishing Media: None known.

Special hazards arising from the mixture: High temperature decomposition or burning in air can result in the formation of toxic gases,

which may include carbon monoxide.

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: None. Non-Toxic

Environmental precautions: None. Non-Toxic

Methods and materials for containment and cleaning up

For Containment: None. Non-Toxic For Cleaning Up: None. Non-Toxic

Reference to other sections: Refer to Sections 7, 8 & 13 for further details of personal precautions, personal protective equipment and

disposal considerations.

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

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SECTION 7. HANDLING AND STORAGE

Precautions for safe handling: Do not use near heat sources, open flame, or hot surfaces. Non-Toxic.

Conditions for safe storage, including any incompatibilities: None. Non-Toxic

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Established Limits

| Component | OSHA | ACGIH | Other Limits | |
|-----------|-----------------|-----------------|-----------------|--|
| None | Not Established | Not Established | Not Established | |

Appropriate Engineering Controls: None. Non-Toxic Occupational exposure limits: None. Non-Toxic

Personal Protective Equipment: Respiratory protection: Not required **Eve protection:** Not required

Skin protection: None. Non-Toxic

Hygiene recommendations: None. Non-Toxic

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

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

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

Not applicable, is not dispersible with water. pH:

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

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

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

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

Vapor Pressure: Not applicable

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

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

Decomposition temperature: Not applicable

Viscosity: Not applicable, is not a liquid.

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not Applicable

Chemical stability: Not Applicable

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

Incompatible materials: Not Applicable

Hazardous decomposition products: Not Applicable

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity

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

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

Germ cell mutagenicity: Not Toxic

Carcinogenicity: Not Toxic

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

Page 2 of 3

| Components | NTP | IARC | OSHA |
|------------|-----|------|------|
| None | NA | NA | NA |

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

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Effects: Not Toxic

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

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

SECTION 13. DISPOSAL CONSIDERATIONS

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

SECTION 14. TRANSPORT INFORMATION

UN number: Not regulated

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

Packing group: Not regulated Environmental Hazards

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

DOT Air: Not considered hazardous for transportation by air.

Freight Classification: LTL Class 60

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

Special precautions for user: None

SECTION 15. REGULATORY INFORMATION

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

Signal Word: None

Precautionary Statements: None

Potential Health Effects:

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

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

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

SECTION 16. OTHER INFORMATION

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

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

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

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

Date Created: January 2016
Page 3 of 3



Appendix O – CMP's TCP & PMP Inspection Records

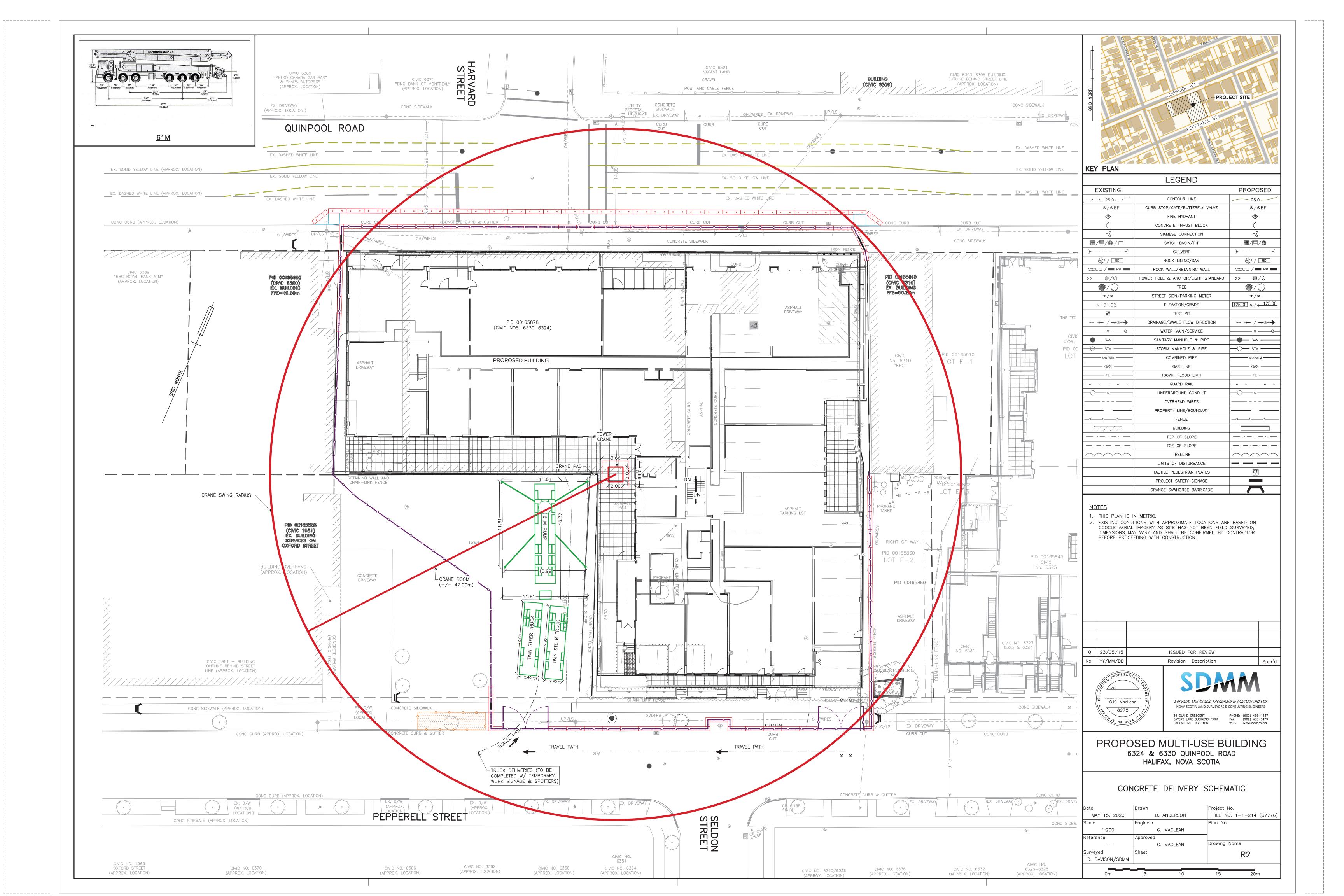
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| Project: | | Locati | on: | | | Phase: | Date: | Inspector: |
|---------------|-------|-----------------|-------|------------|-------|------------------------|------------------|------------|
| | | C | ONSTR | RUCTIO | N MAN | AGEMENT PLAN - INSPECT | | |
| CMP Element | Set-u | Set-up per PMP? | | Condition? | | Action Required | Action Completed | Comments |
| Civir Element | Yes | No | N/A | Good | Bad | Action Required | Action Completed | Comments |
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Appendix P – Concrete Delivery Schematic

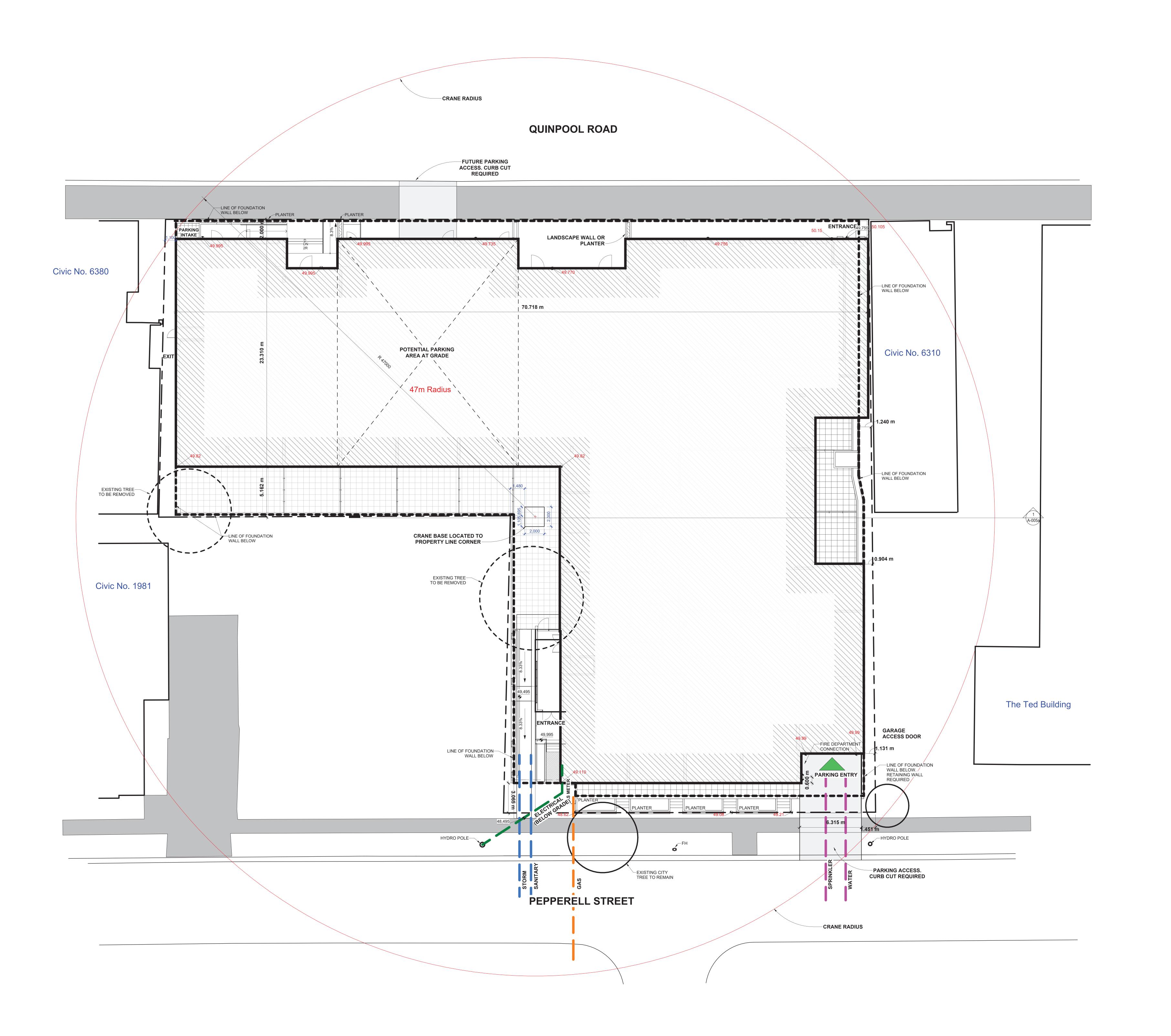
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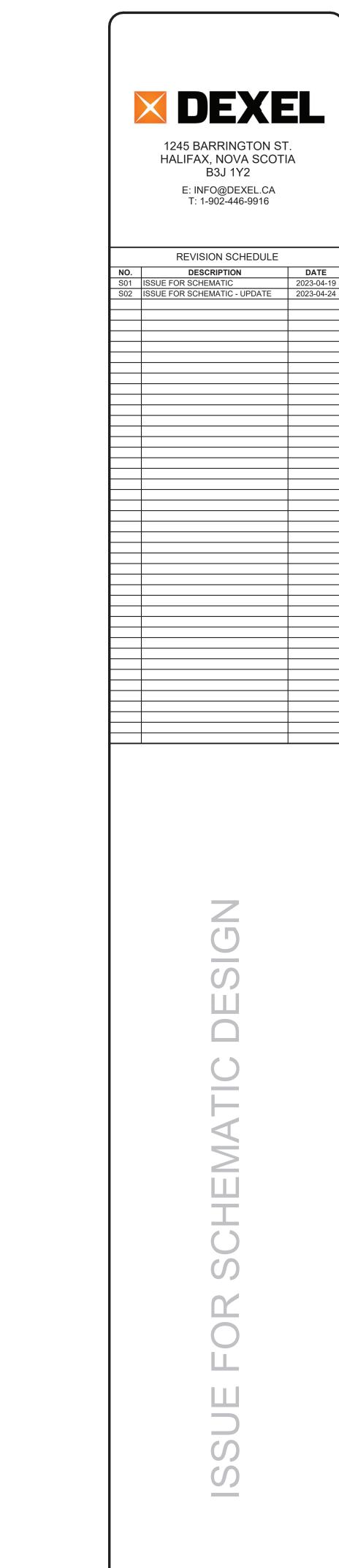




Appendix Q – Crane Information

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MM/DD/YYYY



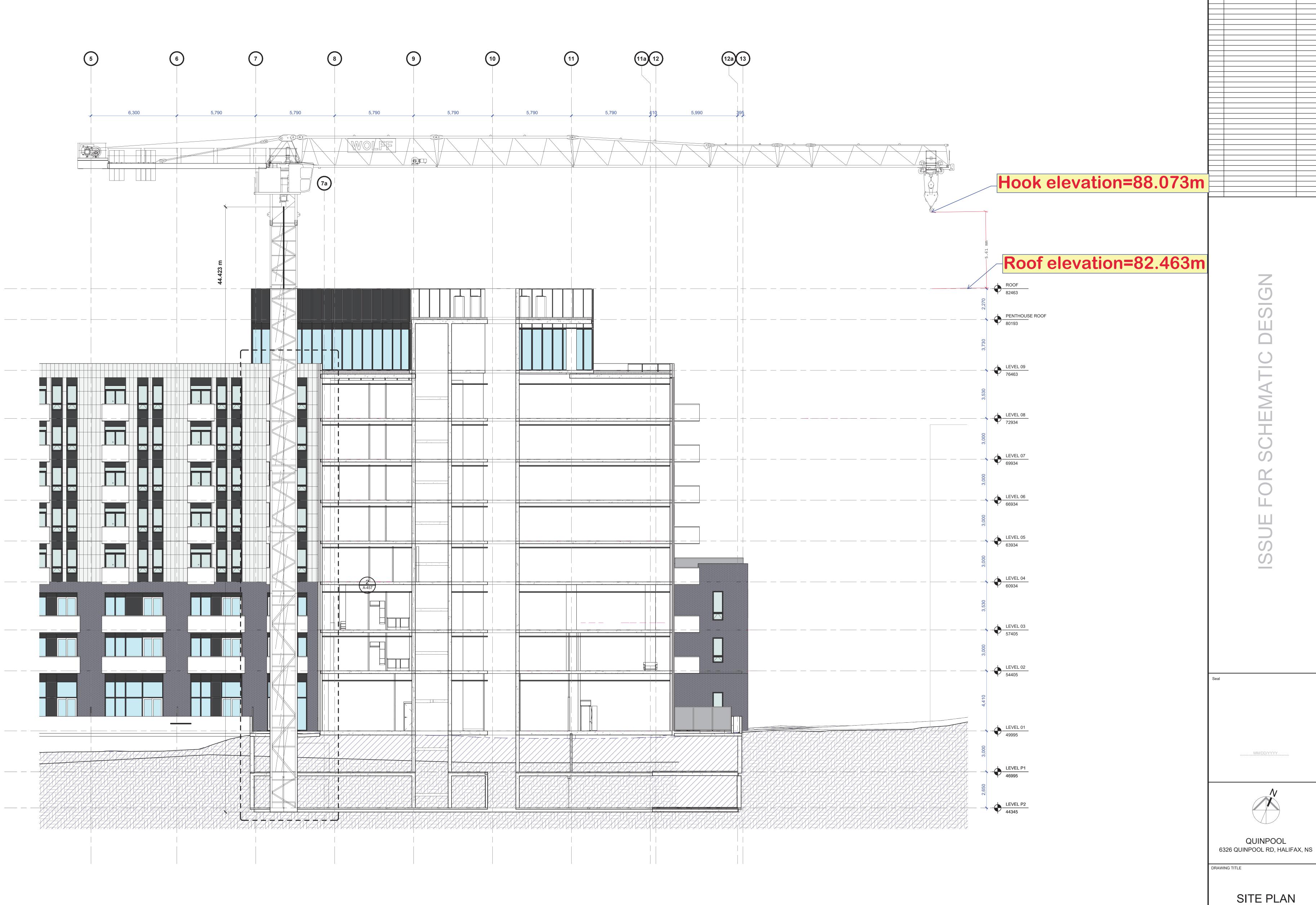
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SITE PLAN

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2023/04/24
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22002_QUINPOOL

A-005



1 CRANE SECTION
A-005a 1:100

DEXEL 1245 BARRINGTON ST. HALIFAX, NOVA SCOTIA B3J 1Y2 E: INFO@DEXEL.CA T: 1-902-446-9916 REVISION SCHEDULE

 NO.
 DESCRIPTION
 DATE

 S01
 ISSUE FOR SCHEMATIC
 2023-04-19

 S02
 ISSUE FOR SCHEMATIC - UPDATE
 2023-04-24

QUINPOOL

DRAWING TITLE

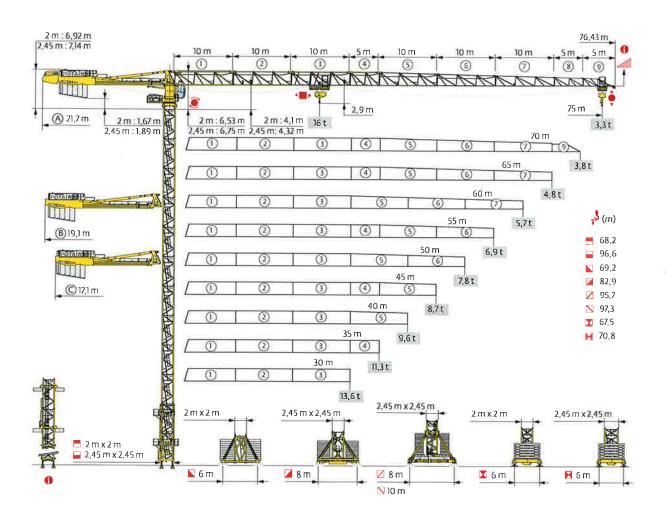
SITE PLAN SECTION

2023/04/24

22002_QUINPOOL



MDT 389 L16









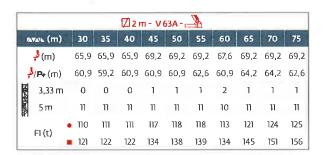




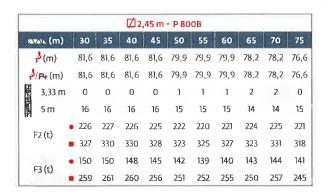
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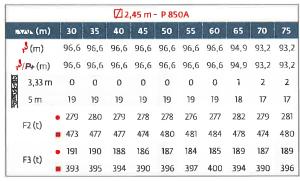
| | | | | Z |] 2 m - | P 628 | | | | | |
|------------|----------------------|------------|------|------|---------|-------|------|------|------|------|------|
| 72 | wir (m) | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 |
| | (m) <mark>ل</mark> ې | 66,6 | 66,6 | 66,6 | 68,2 | 68,2 | 68,2 | 66,6 | 68,2 | 68,2 | 68,2 |
| الم | /P+ (m) | 61,6 | 59,9 | 61,6 | 61,6 | 61,6 | 61,6 | 61,6 | 63,2 | 63,2 | 61,6 |
| 182 (2) SE | 3,33 m | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 2 | 2 | 2 |
| | 5 m | 13 | 13 | 13 | 12 | 12 | 12 | 13 | 12 | 12 | 12 |
| Ι. | F2 (t) | • 208 | 209 | 207 | 210 | 211 | 210 | 207 | 219 | 220 | 221 |
| ' | | 220 | 224 | 224 | 234 | 241 | 242 | 232 | 253 | 262 | 269 |
| | F3 (t) | • 142 | 142 | 139 | 140 | 141 | 139 | 136 | 147 | 148 | 148 |
| | L2 (f) | 163 | 165 | 164 | 171 | 178 | 179 | 170 | 188 | 197 | 204 |

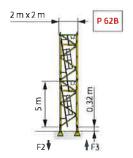
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|---------------------------------|---------------------------------|------------|------|--------------|---------|-------|------|------|------|------|------|--|--|--|
| | | | | | | | | | | | | | | |
| | (m) 🦶 | 65,9 | 65,9 | 65,9 | 69,2 | 69,2 | 69,2 | 67,5 | 69,2 | 69,2 | 69,2 | | | |
| 4 | <mark>5</mark> / ₽ + (m) | 60,9 | 59,2 | 60,9 | 60,9 | 60,9 | 62,5 | 60,9 | 64,2 | 64,2 | 62,5 | | | |
| 1 1 1 1 1 1 1 | 3,33 m | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | | | |
| | 5 m | 12 | 12 | 12 | 12 | 12 | 12 | 11 | 12 | 12 | 12 | | | |
| | (m) <mark>ڈ</mark> (P+ (m) | • 110 | 111 | 110 | 114 | 114 | 114 | 113 | 121 | 124 | 124 | | | |
| | FI (L) | 118 | 120 | 119 | 131 | 136 | 136 | 131 | 143 | 148 | 153 | | | |

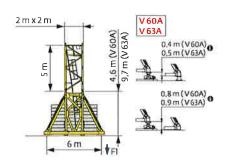


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| A | ™ (m) | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 |
| 1 | <mark>,</mark> (m) | 67,5 | 67,5 | 67,5 | 67,5 | 67,5 | 67,5 | 67,5 | 67,5 | 67,5 | 67,5 |
| ڳ | /P + (m) | 60,8 | 59,2 | 60,8 | 60,8 | 62,5 | 62,5 | 62,5 | 62,5 | 62,5 | 62,5 |
| NEW PERSON | 3,33 m | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 m | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| | | 113 | 114 | 114 | 112 | 112 | 112 | 112 | 115 | 118 | 121 |
| | F1 (t) | 124 | 126 | 126 | 123 | 127 | 127 | 130 | 134 | 140 | 144 |

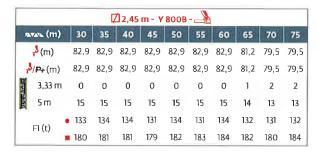




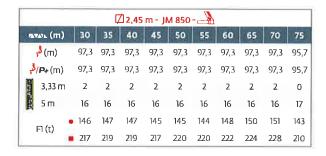


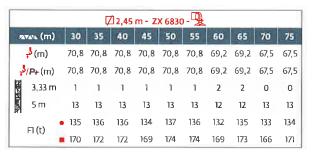


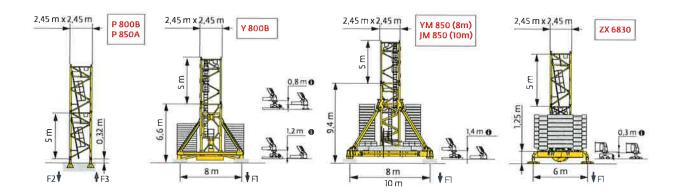




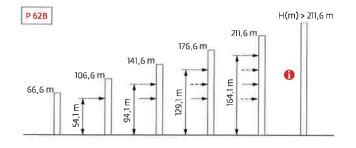


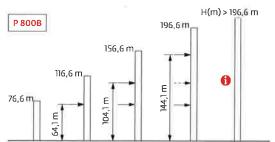






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| ZVAIL | (m) | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 |
| | 69,2 | | | | 96 | 96 | 96 | | 108 | 120 | 120 |
| | 67,5 | | | | 96 | 96 | 96 | 96 | 96 | 108 | 108 |
| | 65,9 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 84 | 96 | 108 |
| | 60,9 | 108 | 96 | 108 | 96 | 96 | 96 | 96 | 84 | 84 | 84 |
| د ې (m) | 55,9 | 96 | 96 | 96 | 96 | 84 | 84 | 84 | 84 | 72 | 72 |
| ···/ | 50,9 | 96 | 96 | 84 | 84 | 84 | 84 | 84 | 72 | 72 | 72 |
| | 45,9 | 84 | 84 | 84 | 84 | 72 | 72 | 72 | 60 | 60 | 60 |
| | 40,9 | 84 | 84 | 84 | 72 | 72 | 72 | 60 | 48 | 48 | 48 |
| | 35,9 | 84 | 84 | 84 | 72 | 72 | 72 | 60 | 48 | 48 | 48 |

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| | (m) | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 |
| | 67,5 | 101 | 101 | 101 | 91 | 91 | 91 | 91 | 91 | 101 | 111 |
| | 62,5 | 91 | 91 | 81 | 81 | 101 | 91 | 91 | 81 | 81 | 81 |
| ١. | 57,5 | 101 | 101 | 91 | 91 | 91 | 81 | 81 | 81 | 71 | 71 |
| (m) | 52,5 | 91 | 91 | 91 | 81 | 81 | 81 | 81 | 71 | 71 | 71 |
| (, | 47,5 | 91 | 87 | 81 | 81 | 71 | 71 | 71 | 61 | 61 | 61 |
| | 42,5 | 81 | 81 | 81 | 71 | 71 | 71 | 61 | 51 | 51 | 51 |
| | 37,5 | 81 | 81 | 81 | 71 | 71 | 71 | 61 | 51 | 41 | 51 |

| | | | ≜ 1 | (t) / 🛚 | 2,45 (| n - YM | M 850 | | | | |
|-------|------|-----|------------|---------|--------|--------|-------|-----|-----|-----|-----|
| AVAIL | (m) | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 |
| | 95,7 | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 216 | | |
| | 94,0 | 216 | 216 | 204 | 204 | 204 | 204 | 204 | 216 | 216 | |
| | 92,3 | 204 | 204 | 204 | 192 | 204 | 192 | 204 | 204 | 204 | 216 |
| | 87,3 | 168 | 168 | 168 | 156 | 168 | 168 | 168 | 168 | 180 | 180 |
| | 82,3 | 144 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 144 | 144 |
| | 77,3 | 108 | 108 | 108 | 96 | 108 | 108 | 108 | 108 | 108 | 120 |
| \$ | 72,3 | 84 | 84 | 72 | 72 | 72 | 72 | 72 | 72 | 84 | 84 |
| (m) | 67,3 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 60 | 60 |
| | 62,3 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| | 57,3 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| | 52,3 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| | 47,3 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| | 42,3 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| | 37,3 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |

| | | | A | (t) / 🏻 | 2,45 | m - ZX | 6830 | .型 | | | |
|-----------|------|-----|----------|---------|------|--------|------|-----|-----|-----|-----|
| PAVAIL | (m) | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 |
| | 70,8 | 151 | 151 | 151 | 141 | 151 | 151 | | | | |
| | 69,2 | 141 | 141 | 141 | 131 | 141 | 141 | 141 | 141 | | |
| | 67,5 | 131 | 131 | 121 | 121 | 121 | 121 | 131 | 131 | 141 | 141 |
| ١. | 62,5 | 101 | 101 | 101 | 101 | 91 | 91 | 91 | 91 | 101 | 111 |
| اج (m) | 57,5 | 91 | 91 | 91 | 81 | 81 | 71 | 71 | 71 | 71 | 71 |
| | 52,5 | 81 | 81 | 81 | 71 | 71 | 71 | 61 | 61 | 51 | 51 |
| | 47,5 | 81 | 81 | 81 | 71 | 71 | 71 | 61 | 51 | 41 | 51 |
| | 42,5 | 81 | 81 | 81 | 71 | 71 | 71 | 61 | 51 | 41 | 51 |
| | 37,5 | 81 | 81 | 81 | 71 | 71 | 71 | 61 | 51 | 41 | 51 |

| | | | | ii≣ (t) / | □ 2 n | n - V 6 | 3A | A. | | | |
|-----|------|-----|----|-----------|--------------|---------|-----|----|-----|-----|-----|
| | (m) | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 |
| | 69,2 | | | | 108 | 108 | 108 | | 108 | 120 | 120 |
| | 67,6 | | | | 96 | 96 | 96 | 96 | 108 | 108 | 120 |
| | 65,9 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 108 |
| | 60,9 | 108 | 96 | 108 | 96 | 96 | 96 | 96 | 84 | 84 | 84 |
| \$ | 55,9 | 96 | 96 | 96 | 96 | 96 | 84 | 84 | 84 | 72 | 72 |
| (m) | 50,9 | 96 | 96 | 96 | 84 | 84 | 84 | 84 | 72 | 72 | 72 |
| | 45,9 | 84 | 84 | 84 | 72 | 72 | 72 | 72 | 60 | 60 | 60 |
| | 40,9 | 84 | 84 | 72 | 72 | 72 | 60 | 60 | 48 | 48 | 60 |
| | 35,9 | 84 | 84 | 72 | 72 | 72 | 60 | 60 | 48 | 48 | 48 |
| | 30,9 | 84 | 84 | 72 | 72 | 72 | 60 | 60 | 48 | 48 | 48 |

| | | | a i≡ | (t) / 🛚 | 2,45 | m - Y | 800B | R | | | |
|--------|------|-----|-------------|---------|------|-------|------|-----|-----|-----|-----|
| MAYAYA | (m) | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 |
| | 82,9 | 144 | 144 | 144 | 132 | 144 | 132 | 144 | | | |
| | 81,2 | 132 | 132 | 132 | 120 | 132 | 132 | 132 | 132 | | |
| | 79,5 | 132 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 132 | 132 |
| | 74,5 | 96 | 96 | 96 | 84 | 96 | 96 | 96 | 96 | 96 | 108 |
| | 69,5 | 72 | 72 | 72 | 60 | 60 | 60 | 72 | 72 | 72 | 84 |
| Ą | 64,5 | 48 | 48 | 36 | 36 | 36 | 36 | 36 | 48 | 48 | 48 |
| (m) | 59,5 | 24 | 24 | 24 | 24 | 12 | 12 | 12 | 24 | 24 | 24 |
| | 54,5 | 24 | 24 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| | 49,5 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| | 44,5 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| | 39,5 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| | 34,5 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |

| | | | ≜ i≡ | (t) / 🛚 | 2,45 | m - JA | 1 850 - | - | | | |
|--------|------|-----|-------------|---------|------|--------|---------|-----|-----|-----|-----|
| PAVAIL | (m) | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 |
| | 97,3 | 168 | 168 | 168 | 156 | 156 | 156 | 168 | 168 | 168 | |
| | 95,7 | 144 | 144 | 132 | 132 | 132 | 132 | 132 | 132 | 144 | 144 |
| | 90,7 | 120 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 120 | 120 |
| | 85,7 | 96 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 96 | 96 |
| | 80,7 | 72 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 72 | 72 |
| | 75,7 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| \$ | 70,7 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| (m) | 65,7 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| | 60,7 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| | 55,7 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| | 50,7 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| | 45,7 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| | 40,7 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| | 35,7 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |

Courbes de charges / Lastkurven / Load curves / Curvas de cargas / Curve di carico / Curvas de carga / Кривые нагрузок

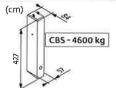
| 91 ⁷⁴ | ANANAMANA | (m) | 17 | 20 | 25 | 27 | 30 | 32 | 35 | 37 | 40 | 42 | 45 | 47 | 50 | 55 | 57 | 60 | 65 | 67 | 70 | 72 | 75 | | m |
|------------------|------------------------|--------------------|----|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------------|-------|------|---|----|
| MAN | Ш↓ | 8 t الماحة الماليا | | | Ш | ĻJ | | | | | | | | | | | Ų | | | | | | | | |
| 75 | 3,3 → 18,6 | 34,1 - 37,3 | 16 | 14,9 | 11,6 | 10,6 | 9,4 | 8,7 | 8 | 8 | 7,4 | 7 | 6,5 | 6,1 | 5,6 | 4.9 | 4,7 | 4,4 | 3,9 | 3,7 | 3,5 | 3,3 | 3,1 | t | |
| /3 | $3.3 \rightarrow 20.5$ | 36 - 39,1 | 16 | 16 | 12,8 | 11,7 | 10,3 | 9,4 | 8,3 | 8 | 7,7 | 7,3 | 6,7 | 6,3 | 5,8 | 5,2 | 4.9 | 4.6 | 4,1 | 4 | 3,7 | 3,6 | 3,3 | ţ | P+ |
| 70 | 3,3 → 19,7 | 35,9 - 39,1 | 16 | 15,7 | 12,3 | 11,3 | 10 | 9,3 | 8,3 | 8 | 7,7 | 7,2 | 6,6 | 6,2 | 5,7 | 5 | 4,8 | 4,5 | 4 | 3,9 | 3,7 | t | | | |
| 70 | 3,3 → 21,1 | 36,4 - 39,7 | 16 | 16 | 13,2 | 12 | 10,5 | 9,6 | 8,5 | 8 | 7,8 | 7,4 | 6,8 | 6.4 | 5,9 | 5,3 | 5 | 4.7 | 4,2 | 4 | 3.8 | t | P+ | | |
| 65 | 3,3 → 21,1 | 38,8-42 | 16 | 16 | 13,3 | 12,2 | 10,8 | 10 | 9 | 8,5 | 8 | 8 | 7,4 | 7 | 6,5 | 5,7 | 5,4 | 5,1 | 4,6 | t | | | | | |
| US | $3.3 \rightarrow 22.5$ | 39,4 - 42,6 | 16 | 16 | 14,1 | 12,8 | 11,3 | 10,4 | 9,3 | 8,7 | 8 | 8 | 7,5 | 7,1 | 6,6 | 5,9 | 5,6 | 5,3 | 4,8 | t | P+ | | | | |
| 60 | $3,3 \rightarrow 22,4$ | 40,4-43,5 | 16 | 16 | 14,1 | 12,9 | 11,4 | 10,6 | 9,5 | 8,9 | 8,1 | 8 | 7,7 | 7,3 | 6,8 | 6,1 | 5,8 | 5,5 | t | | | | | | |
| 00 | 3,3 → 24 | 42 - 45,2 | 16 | 16 | 15,2 | 13,9 | 12,2 | 11,3 | 10,1 | 9,4 | 8,5 | 8 | 8 | 7,6 | 7,1 | 6.3 | 6 | 5,7 | t | P+ | | | | | |
| 55 | 3,3 → 22,7 | 41,8 - 45,1 | 16 | 16 | 14,4 | 13,2 | 11,8 | 10,9 | 9,9 | 9,2 | 8,4 | 8 | 8 | 7,6 | 7,1 | 6,4 | t | | | | | | | | |
| 23 | $3.3 \rightarrow 24.4$ | 44,4 - 48 | 16 | 16 | 15,5 | 14,3 | 12,7 | 11,8 | 10,6 | 9,9 | 9,1 | 8,6 | 8 | 8 | 7,6 | 6,9 | t | P+ | | | | | | | |
| 50 | 3,3 → 22,7 | 41,9 - 45,2 | 16 | 16 | 14,4 | 13,2 | 11,8 | 10,9 | 9,9 | 9,3 | 8,5 | 8 | 8 | 7,7 | 7,1 | t | | | | | | | | | |
| 50 | 3,3 → 24.8 | 45,4 - 49 | 16 | 16 | 15,9 | 14,6 | 13 | 12 | 10,9 | 10,2 | 9,3 | 8,8 | 8,1 | 8 | 7,8 | t | P+ | | | | | | | | |
| 45 | 3,3 → 23,7 | 43,7-45 | 16 | 16 | 15,1 | 13,9 | 12,4 | 11,5 | 10,4 | 9.7 | 8,9 | 8.4 | 8 | t | | | | | | | | | | | |
| 40 | _3,3 → 25,9 | | 16 | 16 | 16 | 15,3 | 13,6 | 12,7 | 11,4 | 10,7 | 9,8 | 9,2 | 8,5 | t | P+ | | | | | | | | | | |
| 40 | 3,3 → 23,5 | | 16 | 16 | 14,9 | 13,6 | 12,1 | 11,2 | 10,1 | 9,4 | 8,6 | t | | | | | | | | | | | | | |
| 40 | 3,3 → 25,5 | | 16 | 16 | 16 | 15 | 13,3 | 12,3 | 11,1 | 10,4 | 9,5 | t | P+ | | | | | | | | | | | | |
| 35 | 3,3 → 23,7 | | 16 | 16 | 15 | 13,8 | 12,2 | 11,3 | 10,2 | t | | | | | | | | | 1.6 | | | | | | |
| 22 | 3,3 → 25,8 | | 16 | 16 | 16 | 15,2 | 13,4 | 12,4 | 11,2 | t | P+ | | | | | | | | ſ | 11 1- | - o | 00+ | may | | |
| 30 | 3,3 → 23,8 | | 16 | 16 | 15,1 | 13,9 | 12,3 | t | | | | | | | | | | | | - | - 0 | ,00 L | max. | | |
| 30 | 3,3 → 25,8 | | 16 | 16 | 16 | 15,3 | 13,5 | t | P+ | | | | | | | | | | 0.5 | | | | | | |

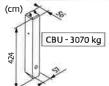
₩ +-- ₩

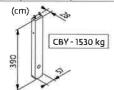
| | <u> </u> | (m) | 17 | 20 | 25 | 27 | 30 | 32 | 35 | 37 | 40 | 42 | 45 | 47 | 50 | 55 | 57 | 60 | 65 | 67 | 70 | 72 | 75 | li i | n |
|----|------------------------|----------------|----|------|------|------|------|------|------|------|-----|-----|-----|-----|----------------|-----|-----|-----|-----|-------|--------------|----------|------|------|----|
| | ₩ 16 t | ¥ ¥ 8 t | | | 7 | ŢĮ. | - | | | | | | | | | | Ţ | | | | | | | | Π |
| 75 | 2,5 → 18,8 | 34,6-35,6 | 16 | 15 | 11,7 | 10,8 | 9,5 | 8,8 | 8 | 7,6 | 7 | 6,6 | 6 | 5,6 | 5,2 | 4,5 | 4,2 | 3,9 | 3,4 | 3,3 | 3 | 2,85 | 2,65 | t | |
| 13 | 2,5 → 20,6 | 36,5 - 37,2 | 16 | 16 | 12,9 | 11,8 | 10,5 | 9,6 | 8,4 | 8 | 7,3 | 6.8 | 6,2 | 5,9 | 5,4 | 4.7 | 4,5 | 4,1 | 3,7 | 3,5 | 3,2 | 3,1 | 2,85 | t | P+ |
| 70 | 2,5 → 19,8 | 36,4-37,2 | 16 | 15,8 | 12,5 | 11,4 | 10,1 | 9,4 | 8,4 | 8 | 7,3 | 6,8 | 6,1 | 5,8 | 5,3 | 4.6 | 4,3 | 4 | 3,6 | 3,4 | 3,2 | t | | | |
| 70 | $2,5 \rightarrow 21,3$ | 36,9 - 38 | 16 | 16 | 13,3 | 12,2 | 10,6 | 9,7 | 8,6 | 8 | 7,4 | 6,9 | 6,3 | 6 | 5,5 | 4,8 | 4,6 | 4,2 | 3,7 | 3,6 | 3,4 | t | P+ | | |
| 65 | 2,5 → 21,3 | 39,4-40,2 | 16 | 16 | 13,4 | 12,3 | 11 | 10,2 | 9,2 | 8,6 | 8 | 7,6 | 7 | 6,6 | 6,1 | 5,3 | 5 | 4.7 | 4,2 | t | | | | | |
| 05 | 2,5 → 22,6 | 39,9-40,8 | 16 | 16 | 14,2 | 13 | 11,4 | 10,5 | 9,4 | 8,8 | 8 | 7,7 | 7,1 | 6,7 | 6,2 | 5,5 | 5,2 | 4.9 | 4.4 | t | P+ | | | | |
| 60 | 2,5 → 22,6 | 41 - 42 | 16 | 16 | 14,3 | 13,1 | 11,6 | 10,7 | 9,7 | 9 | 8,2 | 8 | 7,3 | 7 | 6,5 | 5,7 | 5,5 | 5,2 | t | | | | | | |
| 60 | 2 5 → 24 2 | 42,6 - 43,5 | 16 | 16 | 15,4 | 14 | 12,4 | 11,4 | 10,2 | 9,6 | 8,7 | 8,1 | 7,7 | 7,3 | 6,7 | 5,9 | 5,7 | 5,3 | t | Pr. | | | | | |
| 55 | 2,5 → 22,9 | 42,5 - 43,4 | 16 | 16 | 14,5 | 13,4 | 11,9 | 11,1 | 10 | 9,4 | 8,6 | 8,1 | 7.7 | 7,3 | 6,8 | 6,1 | t | | | | | | | | |
| 22 | 2,5 → 24,5 | 45,1-46,1 | 16 | 16 | 15,7 | 14,4 | 12,8 | 11,9 | 10,7 | 10,1 | 9,2 | 8,7 | 8 | 7,8 | 7,3 | 6.5 | t | P+ | | | | | | | |
| F0 | 2,5 → 22,9 | 42,5-43,5 | 16 | 16 | 14,6 | 13,4 | 11,9 | 11,1 | 10 | 9,4 | 8,6 | 8,1 | 7,7 | 7,3 | 6,8 | t | | | | | | | | | |
| 50 | 2,5 → 25 | 46,1-46 | 16 | 16 | 16 | 14,7 | 13,1 | 12,2 | - 11 | 10,3 | 9,5 | 8,9 | 8,2 | 7,9 | 7,5 | t | P+ | | | | | | | | |
| 45 | 2,5 → 23,9 | 44,4 - 45 | 16 | 16 | 15,3 | 14 | 12,5 | 11,6 | 10,5 | 9,9 | 9 | 8,5 | 8 | t | | | | | | | | | | | |
| 45 | 2,5 → 26,1 | | 16 | 16 | 16 | 15,4 | 13,7 | 12,8 | 11,6 | 10,9 | 9,9 | 9,4 | 8,7 | t | P _t | | | | | | | | | | |
| | 2,5 → 23,7 | | 16 | 16 | 15 | 13,8 | 12,2 | 11,3 | 10,2 | 9,6 | 8,7 | t | | | | | | | | | | | | | |
| 40 | 2,5 → 25,7 | | 16 | 16 | 16 | 15,1 | 13,4 | 12,4 | 11,2 | 10,5 | 9,6 | t | P+ | | | | | | | | | | | | |
| 25 | 2,5 → 23,9 | | 16 | 16 | 15,2 | 13,9 | 12,3 | 11,4 | 10,3 | t | | | | | | | | | | | | | | | |
| 35 | 2,5 → 26 | | 16 | 16 | 16 | 15,3 | 13,6 | 12,6 | 11,3 | t | P+ | | | | | | | | | ो∀/ = | " -0, | 27 t r | nay | | |
| 20 | 2,5 → 24 | | 16 | 16 | 15,3 | | 12,4 | t | | | | | | | | | | | | # - | - 0, | <u> </u> | | | |
| 30 | 2,5 → 26 | | 16 | 16 | 16 | | 13,6 | t | P+ | | | | | | | | | | | | | | | | |

Poids de flèche & lest de contre-flèche / Auslegergewicht & Gegenauslegerballast / Jib weight & counter-jib ballast / Peso de flecha y lastre de contra-flecha/Peso del braccio & zavorra di contro-braccio/Peso da lança & lastro da contra lança/Bec стрелы и балласт контр-стрелы

| | (kg) (+/- 5%) | | | | | | | | |
|------|------------------|-------|------------|---------|---------|-----------------|---------|---------|-----------------|
| | ष्र⊸- प्र | Ų | الياحب ليا | 4600 kg | 1530 kg | <u>#</u> ≣ (kg) | 3070 kg | 1530 kg | # ≣ (kg) |
| 75 m | 18100 | 17595 | 18240 | 5 | 2 | 26060 | 8 | 1 | 26090 |
| 70 m | 17840 | 17350 | 17980 | 5 | 2 | 26060 | 8 | 1 | 26090 |
| 65 m | 17450 | 16990 | 17590 | 5 | 2 | 26060 | 8 | 1 | 26090 |
| 60 m | 16420 | 15990 | 16560 | 5 | 1 | 24530 | 8 | 0 | 24560 |
| 55 m | 16420 | 15990 | 16560 | 5 | 1 | 24530 | 8 | 0 | 24560 |
| 50 m | 15470 | 15040 | 15610 | 5 | 2 | 26060 | 8 | 1 | 26090 |
| 45 m | 15320 | 14890 | 15460 | 5 | 2 | 26060 | 8 | 1 | 26090 |
| 40 m | 14490 | 14060 | 14630 | 5 | 0 | 23000 | 7 | 1 | 23020 |
| 35 m | 13880 | 13450 | 14020 | 4 | 2 | 21460 | 7 | 0 | 21490 |
| 30 m | 13050 | 12620 | 13190 | 4 | 1 | 19930 | 6 | | 19950 |







Encombrement et poids / Abmessungen und Gewicht / Dimensions and weight / Dimensiones y peso / Ingombro e peso dimensões e pesos / габаритные размеры и вес

Partie tournante / Drehender Kranteil / Slewing crane part / Parte giratoria Parte rotante / Parte rotativa / Поворотная часть : ХХХХ 75 m - ↓ ↓ ↓ - • ↑ 75 LVF

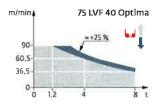


| Partie tournante / Drehender Kranteil / Slewing crane part Parte giratoria / Parte rotante / Parte rotativa Поворотная часть | | | L (m) | I (m) | h (m) | kg (+/- 5%) |
|---|--------|-----------------------|---|---------------------------------|------------------------------------|-------------------------------------|
| Contre-flèche / Gegenausleger Counter-jib / Contra-flecha Controbraccio / Contra-lança Контр-стрела | h L | (A) (B) (C) | 12 12 12 | 1,25 1,25 1,25 | 2,5 2,5 2,5 | 14110 13600 11540 |
| Mât-cabine + cabine / Kabinenmast + Kabine Cab mast + cab / Mástil-cabina + cabina Portaralla superiore + cabina / Tramo-cabina + cabina Секция мачты кабины + кабина | h | Ultra View | 5,03 | 2,22 | 2,49 | 6720 |
| Pivot + 75 LVF (+ câble) / Krankopf + 75 LVF (+ Seil) Towerhead + 75 LVF (+ rope) / Pivote + 75 LVF (+ cabo) Portaralla + 75 LVF (+ fune) / Pivot + 75 LVF (+ cabo) Секция поворотной части + 75 LVF (+ канатом) | h L | [∄2 m [Ø2,45 m | 5,26 5,5 | 2,48 2,53 | 2,5 2,79 | 11700 13260 |
| Treuil de levage (+ câble) / Hubwerk (+ Seil) Hoisting winch (+ rope) / Mecanismo de elevación (+ cabo) Argano di sollevamento (+ fune) Guincho de elevação (+ cabo) Подъемная лебёдка (+ канатом) | | 75 LVF | 2,27 | 2,1 | 1,37 | 3775 |
| Treuil de levage (+ cāble) / Hubwerk (+ Seil) Hoisting winch (+ rope) / Mecanismo de elevación (+ cabo) Argano di sollevamento (+ ſune) Guincho de elevação (+ cabo) Подъемная лебёдка (+ канатом) | h L | 100 LVF | 4,27 | 2,3 | 2,32 | 5710 |
| Elément de flèche / Auslegerelement Jib section / Elemento de flecha Elemento di braccio / Elemento de lança Секция стрелы | L h | ① 6 DVF | 10,75 | 1,8 | 2,74 | 5500 |
| Elément de flèche / Auslegerelement Jib section / Elemento de flecha Elemento di braccio / Elemento de lança Секция стрелы | A h | 2 3 5 6 7 | 10,21 10,31 10,22 10,24 10,19 | 1,2 1,2 1,2 1,2 1,2 | 2,5 2,42 2,39 2,1 1,83 | 3145 2420 1560 1235 950 |
| Elément de flèche / Auslegerelement Jib section / Elemento de flecha Elemento di braccio / Elemento de lança Секция стрелы | A h | (4) (8) (9) | 5,27 5,09 5,09 | 1,2 1,2 1,2 | 2,39 1,53 1,39 | 960 310 220 |
| Chariot / Laufkatze Trolley / Carrello Carro / Carro-distribuidor Тележка | h L | ♥ ♥ 16 t | 2,05 | 1,51 | 1,09 | 482 |
| Moufle / Hubflasche Pulley block / Aparejo Bozzello / Cadernal Полиспаст | h L | Ў → ↓ 16 t | 1,41 | 0,45 | 2,22 | 590 |
| Chariot / Laufkatze Trolley / Carrello Carro / Carro-distribuidor Тележка | h L | ∐Ļ J ← | 1,77 | 1,53 | 1,05 | 250 |
| Chariot / Laufkatze Trolley / Carrello Carro / Carro-distribuidor тележка | h L | اللبا⊷لبا 16 t | 1,77 | 1,53 | 1,05 | 303 |
| | | 8 t | | | | |
| Moufle / Hubflasche Pulley block / Aparejo Bozzello / Cadernal Полиспаст | | 16 t 16 t 8 t | 1,83 | 0,28 | 1,9 | 845 370 |

| Pylône / Kranturm / Crane tower Mástil / Torre / Torre Башня крана | | | L(m) | I (m) | h (m) | kg (+/- 5% |
|---|-------------|--|--|--|---|--|
| Cage de télescopage / Teleskopwagen Telescopic cage / Jaula de telescopaje Gabbia di telescopaggio / Gaiola de telescopagem для телескопирования крана | L I | [Д] 2 m [Д] 2,45 m | 11,18 10,23 | 4,39 4,62 | 4,13 5,79 | 8250 13245 |
| K 639B KM 639E K 850/KR 849B KM 850.10B | h h | [/]2 m [/]2 m [/]2,45 m [/]2,45 m | 10,23 10,29 10,24 10,32 | 2,07 2,03 2,54 2,48 | 2,03 2,03 2,5 2,53 | 5290 4850 9470 10070 |
| K 639A KMT 639A KR 649A KRMT 649A K 849A KR 849A KRMT 849A KRMT 849A K 850/KR 849A KMT 850,10A | h L | (Д) 2 m (Д) 2 m (Д) 2 m (Д) 2 m (Д) 2,45 m (Д) 2,45 m (Д) 2,45 m (Д) 2,45 m (Д) 2,45 m | 5,23 5,23 5,23 5,23 5,23 5,23 5,23 5,24 5,32 | 2,07 2,07 2,1 2,1 2,53 2,53 2,55 2,54 2,54 | 2,03 2,03 2,08 2,08 2,5 2,5 2,53 2,53 2,5 | 2805 2570 3250 3050 3400 4290 4090 5575 5450 |
| K 639C KRMT 649C KR 849C KRMT 849C | h L | (⅓2 m (⅓2 m (⅓2,45 m (⅓2,45 m | 3,57 3,57 3,57 3,57 | 2,07 2,1 2,55 2,55 | 2,03 2,08 2,53 2,53 | 1985 2450 3195 3205 |
| Pieds de scellement / Verankerungsfüße Fixing angles / Pie de empotramiento Montante da annegare / Angulos fixadores анкера | h L | P 62B P 800B P 850A | 0,65 0,75 0,9 | 0,65 0,75 0,9 | 1,27 1,28 1,49 | 295 465 835 |
| Mât-châssis / Grundmasteinheit Basic mast unit / Tramo-chasis Elemento base / Tramo-chassis Мачта для крепления к шасси | L I | V 60A V 63A Y 800B | 5,01 10,02 6,03 | 2,41 2,41 2,93 | 2,41 2,41 2,93 | 4390 7485 8620 |
| Haubans / Mastabstützungen /Struts / Tornapuntas Puntoni / Escoras / Растяжка | L D III h | V 60A V 63A Y 800B | 4,51 4,51 5,51 | 0,29 0,33 0,5 | 0,29 0,33 0,45 | 420 515 1110 |
| Sommier / Unterwagenhälfte Half-bearer / Testero Testata / Estrutura base Tpaвepca | L h | V60A V63A | 6,7 6,7 | 0,7 0,7 | 2,31 2,31 | 1600 1850 |
| 1/2 Longeron / 1/2 Längsträger / 1/2 Side member / 1/2 Larguero 1/2 Longherone / 1/2 Longarina / 1/2 боковина | € D) | Y 800B | 5,68 | 1,24 | 0,73 | 1520 |
| ongeron / Längsträger /Side member / Larguero Longherone / Longarina /боковина | L Th | Y 800B | 12 | 1,24 | 0,73 | 3050 |
| Support l est /Ba llastt räger /Ba llast su pport /Soporte de lastre Support o zavorra / Suporte de lastro /Onopa балласта | 00 : 00 B h | Y 800B | 3,75 | 0,37 | 0,92 | 1085 |
| Traverse de châssis / Unterwagentraverse / Chassis beam Traviesa chasis/Traversa carro/Travessa chassis/балка шасси | h | Y 800B | 8,7 | 0,83 | 0,74 | 2240 |
| roix centrale (position transport) / Zentralkreuz (Transport- position) / Central cross (transport position) / Brazo central posición transporte) / Croce centrale (posizione di trasporto) draço central chassis (posição transporte) / крестообразное роснование (транспортное положение) | | YM 850 JM 850 | 5,2 | 1,7 | 1,5 | 6700 |
| Mât-châssis / Grundmasteinheit Basic mast unit / Tramo-chasis Elemento base / Tramo-chassis Мачта для крепления к шасси | L I | YM 850 JM 850 | 8,75 | 2,5 | 2,5 | 14600 |
| Bras de châssis / Unterwagenträger / Chassis girder / Brazo de pase en cruz / Traverse del carro / Braço de chassis / опорная валка шасси | h L | YM 850 JM 850 | 3,8 5,2 | 0,9 0,9 | 1,55 1,55 | 2800 3200 |
| 'irant de châssis / Unterwagenstreben / Chassis ties / Tirante le base en cruz / Tiranti del carro / Tirante de chassis / тяга срепления шасси | h h | YM 850 JM 850 | 7,2 | 0,25 | 0,35 | 250 |
| łaubans / Mastabstützungen /Struts / Tornapuntas Puntoni / Escoras / Растяжка | L L | YM 850 JM 850 | 7,5 8,2 | 0,75 0,75 | 1,3 1,3 | 2100 2300 |
| Bras de croix / Fundamentkreuzträger Gross girder / Brazo en cruz / | | 74 (820 | 9,1 | 1,12 | 1,1 | 5265 |
| Braccio croce / Braço da cruz Поперечная балка | | ZX 6830 | 9,1 | 0,76 | 1,48 | 5445 |

Mécanismes / Triebwerke / Mechanisms / Mecanismos / Meccanismi Mecanismos / Механизмы

| | 00 V - 50 Hz 80 V - 60 Hz | | | L | Jt | | | U | Ut | | ch - PS hp | kW | a _o |
|------------|------------------------------|------------------------|------|--|-----------|-------|---------|--------|----------|---------|---------------|----|----------------|
| | 75 LVF 40 | m/min | 36,5 | 47,5 | 60,5 | 90 | 19 | 25 | 31,5 | 45 | 75 | 55 | 637 m |
| | Optima | t | 8 | 6 | 4 | 1,2 | 16 | 12 | 8 | 3,2 | /3 | רר | 03/111 |
| ė | 100 LVF 40 | m/min | 48,5 | 61 | 77,5 | 116,5 | 25,5 | 32 | 40,5 | 58,5 | 100 | 75 | 1136 m |
| - | Optima | t | 8 | 6 | 4 | 1,2 | 16 | 12 | 8 | 3,5 | 100 | /5 | 1130 111 |
| 48. | 6 DVF 6 Optima | m/min | | 0 → | 42 (16 t) | 0 → 8 | 4 (8 t) | 0 → 10 | 00 (4 t) | | 5,5 | 4 | |
| . | RVF 172 Optima+ | tr/min U/min rpm | | 400 V - 50 Hz : 0 → 0,8 480 V - 60 Hz : 0 → 1 | | | | | 2 x 10 | 2 x 7,5 | | | |
| ◆ ₩ | | | | | | 0 | | | | | | | |



100 LVF 40 Optima **±** +25 %

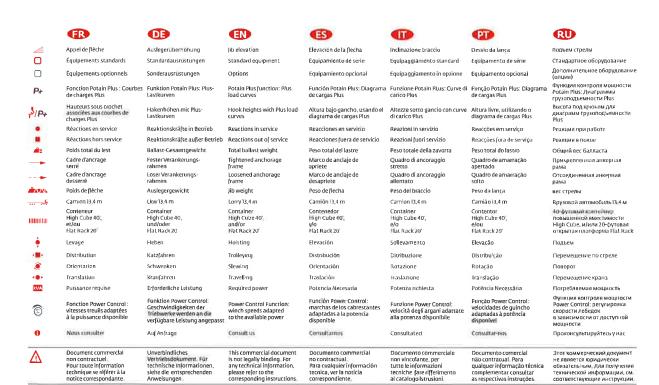


m/min

116.5 77.5 48,5

> 1.2 0

| /= IEC 60204-32 | kva | | | |
|-------------------------|------------------------|----------|--|--|
| 400 V (+10% -10%) 50 Hz | 75 LVF : 84 → 54 kVA | 8 | | |
| 480 V (+6% -10%) 60 Hz | 100 LVF : 104 → 64 kVA | | | |







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Appendix R – Line Painting Schematic

Page | R Job No. 37776

| DENTIFICATION TYPE | | | EXISTING EXISTING CONTOUR LINE 25.0 © PROPOSED CONTOUR LINE 25.0 © PROPOSED FIRE HYDRANT CONCRETE THRUST BLOCK SIAMESE CONNECTION SIAMESE CONNECTION CATCH BASIN/PIT CULVERT CULVERT CULVERT CULVERT CULVERT CULVERT CULVERT CULVERT CONCRETE THRUST BLOCK SIAMESE CONNECTION CATCH BASIN/PIT CULVERT CULVERT CULVERT CULVERT CONCRETE THRUST BLOCK SIAMESE CONNECTION CATCH BASIN/PIT CULVERT CU |
|--|--|---|--|
| EX. DRIVEWAY (APPROX. LOCATION.) CONC CURB (APPROX. LOCATION.) CONC CURB (APPROX. LOCATION.) EX. DASHED WHITE LINE (APPROX. LOCATION.) | ASPHALT PRIOR TO CONSTRUCTION & REINSTATED POST CONSTRUCTION & REINSTATED POST CONSTRUCTION E LINE | LINE LINE EX. DASHED WHITE LINE CONC CURB | STREET SIGN/PARKING METER * 131.82 ELEVATION/GRADE TEST PIT |
| COVIC BASES PRO CONSESSION PROCESSION PRO CONSESSION PROCESSION PROCES | OH/WIRES W CONCRETE SIDEWALK W CONCRETE SIDEWALK CURB | IRON FENCE PID CO185910 PID CO185910 | TRAFFIC AUTHORITY FOR THE APPROVAL OF A ALTERED CENTERLINE ONLY. ALL OTHER ASPECTS OF THIS TEMPORARY TRAFFIC CONTROL PLAN MUST FOLLOW THE TEMPORARY CONTROL MANUAL, LATEST EDITION. O 23/05/15 ISSUED FOR REVIEW No. YY/MM/DD Revision Description Servant, Dunbrack, McKenzie & MacDonald Ltd. NOVA SCOTIA LAND SURVEYORS & CONSULTING ENGINEERS 36 OLAND GRESCENT BAYERS LAKE BUSINESS PARK PHONE: (902) 455-1537 FAX: (902) 455-8479 HALIFAX, NOVA SCOTIA PROPOSED MULTI-USE BUILDING 6324 & 6330 QUINPOOL ROAD HALIFAX, NOVA SCOTIA LINE PAINTING SCHEMATIC |

Project No. FILE NO. 1-1-214 (37776)

R3

Drawing Name

MAY 15, 2023

1:200

D. DAVISON/SDMM

Reference

Surveyed

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G. MACLEAN

G. MACLEAN

Approved