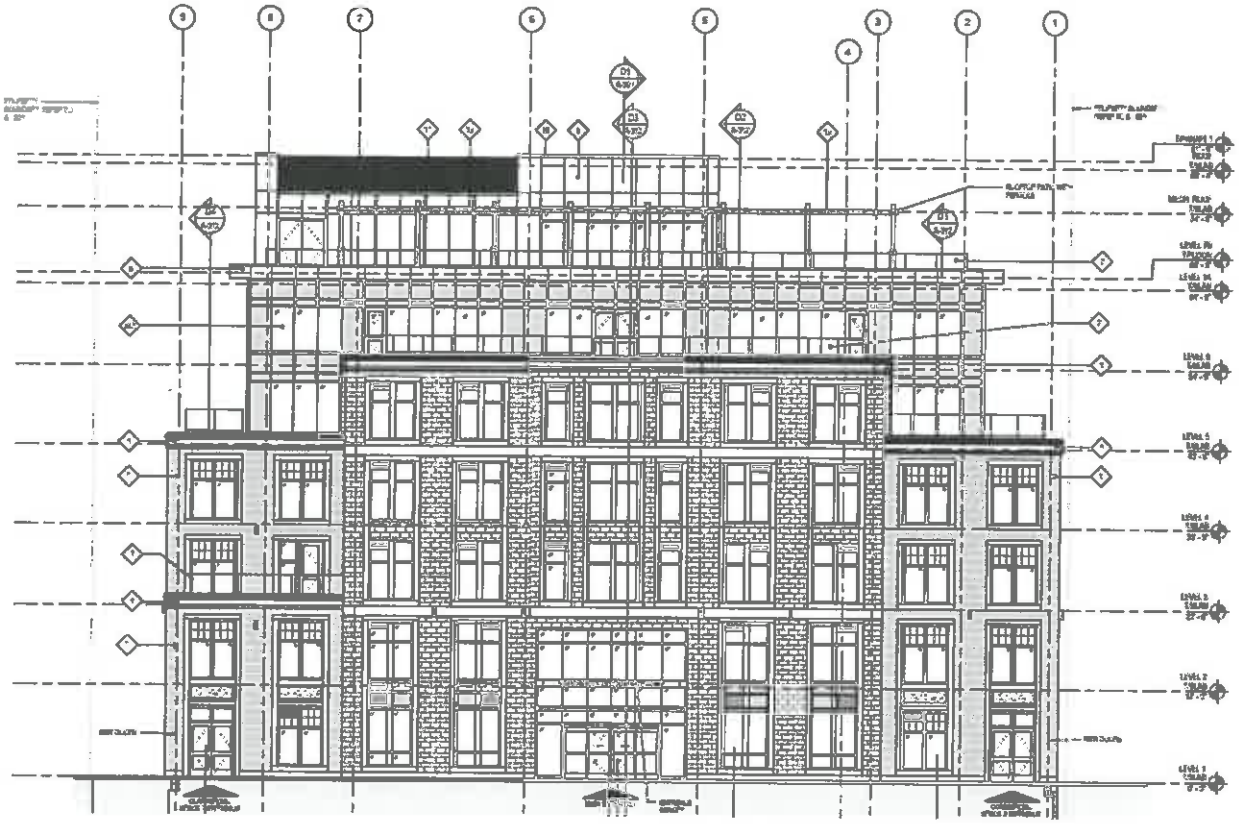
Construction Management Plan

The Governor

Luxury Apartments



6-Storey Residential Building

1441 Hollis Street, Halifax, NS

Submitted for:
Killam Apartment REIT

Prepared by:
Marco Group Ltd.
December 9th, 2020

[redacted]

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Section 1 – Project Description

The proposed development at 1441 Hollis Street, Halifax, consists of a new 6-Storey, 13-unit residential living complex.

Killam Apartment REIT, together with Marco Group Ltd., have prepared this Construction Management Plan at the request of HRM to reduce potential negative impacts on the surrounding community. This CMP is intended to be an evolving, dynamic document to help guide the project team to mitigate impacts to the adjacent community before they arise and to address any unforeseen issues.

There will be 2 impacts to the HRM ROW on the project;

a) The sidewalk adjacent to the proposed development on Bishop Street will be required to be closed to pedestrians. There will be a lane closure on Bishop Street and directional signage will be provided to guide pedestrians/cyclists on both streets.
b) There will be a full road closure required on Bishop Street to all connection of water, sanitary, and storm services. The duration of this closure will be kept to a minimum of approximately 10 days. Directional signage will be provided for pedestrian/vehicular traffic.

If any changes are required from the accepted CMP, HRM will be notified and a revised CMP will be submitted for approval prior to any work proceeding.

The general hours of work will be Monday to Friday from 07.00A.M to 05.00P.M. Any other hours that may be worked will be in full compliance with the noise by-law. Since Hollis Street is a restricted street, work within the ROW will not be done during peak hours.

Section 2 – Project Contact Information

The construction project team for the proposed development consists of:

Developer:
Killam Apartment REIT
3700 Kempt Road, Unit 100
Halifax, NS B3K 4X8
(902) 453-9000

Construction Manager / General Contractor:
Marco Group Ltd.
135 Ilsley Avenue
Dartmouth, NS, B3B 1T1
(902) 481-6500
Vice President of Operations: Corey Taylor (709)-754-3737
Project Manager: Martin Gillen (902) 481-6500
Site Superintendent: John Rhynold
24 Hour Emergency Contact: Marco Group Ltd.

John Rhynold - (902) 209 4399

Temporary Workplace Signer (TWS):
Frontline Traffic Services
P.O. Box 89
Eastern Passage, NS, B3G 1M7
(902) 818-5548
General Manager: Phil Pruneau (902) 818-5548

- Project information signage will be posted and include all contacts for the construction site as well as be available 10 days before construction starts.
- A development information board with project description, timelines, developer info, project management info and 24Hr emergency contact info will be posted outside the gates of the construction site. A rendering of this is at the end of Appendix J.
- The development information board is a 4'x4' sign made of corrugated plastic and will be held on to the fence by four zip ties at each corner.

Section 3 – Construction Schedule

For a detailed Construction Schedule, please refer Appendix A. The following is a brief summary of anticipated major project milestones:

a) Construction Start: December 1st, 2020
b) Site Fencing Install: December 1st, 2020
c) Temporary Sidewalk and Partial Street Closure: December 1st 2020-October 31st 2021.
d) Tower Crane Install: January 26, 2020
e) Sidewalk Reinstatement: Completion of Project
f) Substructure Substantially Completed and Backfilled : March 25, 2021
g) Tower Crane Removal: August 6, 2021
h) Building Complete : April 8, 2022

In addition to the above noted milestones, periodic utility disruptions (water, power, etc.) to adjacent properties may be required. Every effort will be made to ensure this work can be completed outside of normal operating hours of the affected properties, such as weekends or evenings; however, we must abide by the necessary noise by-law requirements and therefore off hour work may not be permissible. If necessary, we will seek permission from the authority having jurisdiction.

Services Install

Services install will take place on Bishop Street between the hours of 10pm-5am between the dates of October 8 and 21, 2021 following a requested street closure. Install will take a total of 6 working days to complete. Below is the schedule from Atlantic Road. Appendix G shows closure plan for when services are being installed and how traffic/pedestrians will be rerouted.

- 2-3 days to complete water connection from street to the building
- 1 day to complete grading and paving back in the patch for water cut
- 2 days for removal of jersey barriers on Hollis.

Installation & Reinstatement Plan: The Street will be cut and the services installed in the first week, and the reinstatement will take place in the second week. The reinstatement will consist of 250mm type 2 gravel, 150mm type 1 gravel, 50mm type B Asphalt and 40mm type C Asphalt as per HRM specifications.

A street closure notice will be issued 5 days prior to any closures to all residential and business units in the vicinity which may be affected by the street closure. The street closure on Bishop Street will not affect any entrance/exits into nearby buildings. All traffic from these units will be directed along lower Bishop Street onto/off Lower Water Street. Please see layout in Appendix D.

Section 4 – Traffic Control Plan

Prior to any construction activity on site, temporary workplace traffic control devices and signage will be erected in accordance with 2018 Temporary Workplace Traffic Control Manual, as well as HRM Traffic Control Manual Supplement. Detailed Traffic Control and Pedestrian Management Plans can be found in Appendix G.

Haul Route

- The Haul Route Plan in Appendix F has been created to minimize traffic congestion and ensure pedestrian safety.
- For concrete pours, concrete trucks will enter at the corner of Bishop and Hollis as shown on Haul Route plan. The concrete logistics plan is shown in Appendix C. All concrete will be bucketed using the tower crane.

Deliveries

- For trucks delivering material to the laydown area on Bishop, Haul Route shown in Appendix F will apply. In this situation, the trucks will turn left onto Bishop from Hollis. To leave, they will continue down Bishop and turn left onto Lower Water Street. Once back on Lower Water Street, truck traffic will use established and permissible routes as indicated in “By-law T-402 Respecting the Amendment of By-law T-400, the Truck Routes By-law”.
- Deliveries of construction materials will increase the amount of truck traffic on the surrounding streets. Depending on the construction activities, this increased traffic will vary both in size and frequency of vehicles entering and leaving the site. The most significant activities include hauling of excavated earth, concrete pours, structural formwork framing and crane deliveries. Deliveries, vehicle staging, and crane pick-ups will be limited as per the delineated staging area indicated on the proposed site plan. The proposed route for deliveries is delineated with arrows on the Site Logistics Plan in Appendix B

Pedestrian Protection

- Hoarding will be installed to surround the entire site and since the adjacent sidewalk on Bishop will be closed, there will be signs redirecting pedestrians to ensure their safety.
- Hoarding height will be in accordance to HRM specifications.
- On Hollis, a temporary sidewalk will be established by utilizing 6 parking spots in front of the site. Additional overhead protection will be provided along the temporary sidewalks which will be designed and certified by a Professional Engineer. Scaffold drawings are in Appendix I.

Hazard Assessment

- The hazard assessment in Appendix H outlines all incoming and outgoing vehicle/pedestrian traffic.

Signage

- In order to keep streets clear, the contractors will be directed to a parking garage near the Four Points Hotel on Hollis Street. "No stopping" signage will be posted on the laydown barrier as per the signage plan in Appendix D. Appendix E also shows the existing HRM signage along the street that will be affected by the encroachment.
- All signs are made of a 1/2" plywood with reflective plastic on the front. They are all weatherproof and will be mounted by either securing it to an existing pole, a concrete base or a pre-fabricated metal stand that is provided by the traffic control company. .

Notice

- In addition to the required notification criteria established in the HRM TCM Supplement, the Developer (and construction manager) will continue to coordinate any special requirements for deliveries or expected special events that are planned throughout the duration of the project. The CM and trades will endeavor to facilitate local deliveries and will work with residents to accommodate their needs, including such measures as temporary short duration traffic control for delivery vehicles if needed. Reference the labeled plans in Appendix G.

Maintenance

- Inspections and maintenance of all traffic control elements will be conducted on a regular basis

Emergency Vehicle Access

- Noted in hazard assessment Appendix H.
- The logistics plan in Appendix B shows where emergency response vehicles will enter. There will be no issue for these vehicles coming in and out of Ironstone Ln.

Parking

- All construction workers will be required to park off site utilizing the many parking garages in the vicinity. The parking garage on Hollis across from the Four Points Hotel will be utilized as parking for construction subcontractors. Construction workers will be notified of parking opportunities by use of signage posted around the job site and before construction commences.
- Construction subcontractors will be encouraged to carpool as much as possible.
- Arrangements will be made within each trade to collect workers from parking garages/surface parking and drop them off at the site in the mornings, in the evenings the reverse will happen. This is necessary to allow simplification of the route for construction traffic to aid the flow of traffic and avoid the need for trucks to turn around and obstruct public traffic.

- Opportunities for public parking exist along the remainder of Hollis Street, the surrounding streets and nearby parking garages/Surface parking. There will be no parking within the encroachment ROW.
- The street parking on Bishop and Ironstone Lane will not be affected by construction.
- With the newly added pay station on Hollis in front of our site, it is proposed that HRM move the pay station down the road, so it does not interfere with construction work. The logistic plan in Appendix B outlines the existing pay station location and a new temporary proposed location for the duration of this project. HRM will be notified 10 days prior to removal request being actioned.
- Number of parking stalls proposed for removal- Six parking spots (8'x20' HRM Standard) will be occupied by a temporary sidewalk from December 1st, 2020- October 31st, 2021.

Section 5 – Pedestrian Management Plan

- A sidewalk and street encroachment will be necessary in order to complete the construction activities. This encroachment will remain in place for the duration of the project. The encroachment will have an area of approximately 200m^2. The total area of sidewalk encroachment and street encroachment is shown in the Street & Sidewalk Encroachment diagram in Appendix D. The sidewalk along the site will continue with the addition of a protected walkway with the use of F-Type Barriers design certified as meeting Test Level 3 of the NCHRP Report 350. The F-Type barriers will be angled to oncoming traffic.
- The adjacent sidewalks to the construction site on Bishop street will be closed to pedestrians. Due to the nature of construction work, the extra space will be needed for staging/laydown, formwork, masonry, insulation and windows.
- The sidewalk on Hollis will have a temporary sidewalk with overhead protective scaffolding, which will take up six parking spots in order to avoid rerouting pedestrians.
    - There will be a small barrier free ramp placed in front of the curb in order to facilitate access. The ramp will be made from concrete and have the same width of the temporary sidewalk. It will abide by the HRM standard of a 1:12 ramp slope for accessibility. Appendix G shows a picture of an existing ramp in HRM, that will be used as a guide.
    - Signs before the temporary sidewalk will notify pedestrians that there is an upcoming temporary walkway and a tactile warning strip at the end will notify pedestrians that there is an upcoming intersection. Tactile warning strip product data is in Appendix G.
- No bus stops will be affected during the construction of this project.
- Pedestrians will be rerouted by use of proper signage with arrows indicating where to go due to the closures on Bishop. Pedestrians will be rerouted to the other side of the road.
- There will be no impediment for those with limited mobility throughout the project duration. The protected sidewalk around the site will be open throughout construction, and all sidewalks are barrier free as per HRM standards.
- Contact information for the Temporary Workplace Signer is in Section 2-Project Contact Information of this plan.
- Appendix G shows proposed pedestrian routes, closure signage, marked cross walks as well as existing sidewalks. Plan will be posted at each end of Hollis and Bishop Street to make pedestrians aware of the encroachment.
- Refer to Appendix H for Hazard assessment for vehicle/pedestrian traffic.

- A notification will be distributed 5 days in advance to notify of any impacted areas for pedestrians.

Pedestrian Detour Wayfinding

- There is one instance where pedestrians will find themselves rerouted due to sidewalk closures on Bishop street. There will be signs redirecting them to the other side of the road.
- On Hollis, pedestrians will be notified that there is a temporary sidewalk with overhead scaffolding ahead. On Bishop, signs near The Alexander will direct pedestrians across the street.
- Cyclists will follow the same guidelines as pedestrians. There is a bike lane on Hollis that is not affected by our sidewalk closure.
- All route information is located on the pedestrian management plan in Appendix G.
- The duration of these closures will be from December 2020- October 2021
- Wayfinding signs for this project will be located at:
    - Intersection between Salter and Hollis (Near Four Points Hotel and Spirit Spa)
    - Intersection between Bishop and Hollis (Near Government House and Flynn's Dairy Bar)
    - Intersection between Bishop and Lower Water street (Near The Alexander and aFrite Takeout).
- Signs will be made from 1/2" plywood with a reflective plastic on the front. They will be mounted on a bracket that is designed to stand on its own or with a heavy concrete base with a pole, or an existing pole on the street. Minimum sign size will be 60cm x 90 cm and they will be mounted at heights no greater than 2.0m
    - Signs will include: Current location, Emergency Contacts, Directional arrows as well as points of interests/ local businesses nearby. Rendering of these signs are in Appendix G.

Section 6 – Visually Impaired Persons

Measures will be taken to ensure the safety of those with visual impairments around the site. Research was done on the CNIB website to provide more information on what can be done to mitigate the site's impact on those with visual impairments. The measures to be taken are shown below.

- Site signage will be of contrasting colors to make them easier to read.
- All redirections will be towards an HRM sidewalk to ensure all pedestrians are safe and able to cross without problems.
- Signage before the upcoming construction site will be posted to indicate that there is construction ahead and vehicles should slow down.
- Signage indicating "yield to pedestrians" will be located near crossings to ensure the safety of all pedestrians. This will also allow pedestrians to have the right of way.
- Clear arrow signage will be installed to highlight direct routes and clear paths of travel.
- Signage will not be posted in the path of travel, but off to the side. This is to reduce the complexity of situations and avoid pedestrians from injuring themselves.
- Tactile warning strips at the end of the temporary walkway will be used for visually impaired individuals to prevent them from entering the intersections by mistake. Specifications for these warning strips are in Appendix G.

Accessibility

- All walkways will be firm, stable and non- slip. In addition, all walkway grades will be accessible.
- There will be no interference with controlled sidewalks.
- All pedestrian routes will have no obstacles in the way and will be clear and free of debris.
- There will be one curb ramp on Hollis where the temporary covered sidewalk will be located. The ramp will be made of concrete and have a slope no more than 1:12 as per HRM specifications. Otherwise all pedestrians will be rerouted to an HRM sidewalk.

Section 7 – Construction Site Protection & Hoarding

In an effort to minimize noise, dust, and other debris from leaving the site, and to keep unauthorized personnel from entering the site, the entire perimeter of the work area will be delineated with plywood hoarding, with the encroachment area being delineated with F-shape barriers with plywood hoarding on top. The f-shape barriers will be constructed and installed using a design certified as meeting Test Level 3 of the NCHRP Report 350 (NCHRP 350). The specification for the F-shape barrier and fence that will be used is shown in Appendix I The gates for the project will be constructed from plywood with 2” x 4” wooden backing strips.

In addition to plywood hoarding, the following measures will be implemented on site to limit dirt/dust/debris in the public realm:

- Dirt and dust on site will be removed via street sweepers equipped with vacuum mechanisms; we will also have workers ensure the public realm immediately surrounding the site is removed in a similar fashion;
- At end of each workday, the Site Superintendent will lock the gates to the construction site. Gates are always to be pad locked and only opened when the Site Superintendent is present. Gate detail is in Appendix I.
- Inspection reports will be kept on site and readily available upon request. A blank inspection report is in Appendix H.
- The loading/unloading area will be lined with coarse material such as gravel, or riprap, or asphalt to reduce mud from tracking into the street;
- Tarps and/or temporary enclosures will be erected around dust producing activities (i.e.: concrete pours of floor slabs at higher elevations).
- Prior to any forecasted weather event the Site Superintendent will inspect the site for any materials that are not stored securely. All loose materials are to be either moved to a secure location or secured in position to prevent any displacement during a weather event.
- Adequate stage lighting will be provided for the construction site.

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All work will be done in compliance with HRM Noise by-law N-200. Typical working hours will be from 7:00am to 5:00pm Monday to Friday. If work is to be performed outside of these hours, it will comply with the hours stated in by-law N-200.

Site Aesthetics.

- The fencing will be covered in some areas with project advertising.
- The graphic at the end of Appendix I is planned and to be installed on the street side of the construction site. This graphic will be installed at the same time as the hoarding and no additional traffic control measures will be required for its installation.
- The total height of hoarding will be 8ft which includes F-type barrier and plywood.

Section 8 – Lifting, Hoisting, and Crane Operations

Crane assembling & disassembling

This project will require a tower crane located in-between gridlines F & G as well as gridlines 5 and 6 as shown in Appendix D. Crane height will be 140ft from bottom of excavation.

Temporary mobile cranes will be required periodically to erect and disassemble the tower crane, as well as temporary lifting during the cladding of the building superstructure and mechanical and electrical equipment up to the roof. A safety perimeter will be established to prevent pedestrian encroachment within the restricted area and appropriate signage will be displayed. Assembly and dissembling of crane will now be on Ironstone Ln and no street closures to Bishop will occur.

Operations above the public realm

- Although the tower crane swing radius identified on the site plan (refer to Appendix B) does extend over the public ROW, no loads will be moved or suspended over the travelling public. There will be at least 3m clearance between the end of the boom and the nearest object.
- There will always be a spotter for the crane operator when loads are suspended. Off loading will always occur inside the site hoarding.

NAVCAN

NAVCAN has been contacted regarding the tower crane being erected to notify them of any possible conflicts with local air traffic. They have reviewed the application form and have no objection to the crane location. The letter from NAVCAN is shown in Appendix K.

Section 9 – On-Site Safety and Security

As the Construction Manager and director of the work, Marco Group Ltd is a registered member in good standing with the Nova Scotia Construction Safety Association and is committed to upholding the safety of all workers and the public.

In addition to ensuring strict compliance with all applicable safety codes and regulations, the following safety protocols will be implemented to further enhance the site safety and security:

- Contractor and Trade workers will all be required to attend a mandatory site safety orientation training session prior to starting to work;
- Personal protective equipment (PPE) will be required for all personnel on site;
- Adequate signage will be placed outside the fencing, which warns of all hazards that may exist;
- Gates will be locked and the perimeter fencing secured to provide security against public access during off work hours and monitored in high traffic areas during operation. Site Superintendent will be responsible for locking and unlocking site during the work week as needed. A pad lock and chain will be used.
- Perimeter fencing will indicate: “No Trespassing - Construction Personnel Only”, and personal protective equipment requirements clearly marked (e.g.: “Hard Hats and Safety Footwear Must Be Worn Beyond This Point”);
- Regular safety inspections will be conducted to ensure suitability of fencing and other safety devices;
- Emergency contact information will be prominently posted;
- A comprehensive safety plan will be developed and enforced;
- Site specific hazard assessments are required from all contractors and trades prior to commencement their work. These can and will be amended depending on changing site conditions over the course of the project;
- Mandatory weekly toolbox talks are to be done by every contractor or trade present during construction;
- Joint Occupational Health and Safety Committee (JOHSC) will be established as soon as the number of workers warrants it;
- Up to date Material Data Safety Sheets (SDS) to be kept at the Marco site office in a binder for all glues, solvents, paints, etc. to be used on site.
- A site signage plan is provided in Appendix E. This shows the signage that will be posted on the site gates, as well as the site office.
- Prior to predicted weather events, Marco Group Ltd. along with subcontractors ensure that all site materials are stored in a safe manner or secured in place safely to prevent any material from leaving the job site in the event of high winds.
- A detailed hazard assessment is provided in Appendix H.
- As addressed in the hazard assessment smoking on site will be prohibited.
- Inspection reports will include the following in the “other” section of the report:
    - Hoarding, Beautification, Traffic Control.

Fire Suppression Systems

- Locations of hydrants for the fire department are noted on the site logistics plan
- Signs will be posted on the site entrance doors as well as on each fire hydrant
- Renderings of the signs to be used are in Appendix E
- Signs are to be mounted to the fence by zip ties on each corner.
- All signs are made of corrugated plastic and are waterproof.
- The signs will be 2’ x3’ with bold red lettering so they can be easily identified.
- The easiest route into the building will be through a worker door in the hoarding located near the barricade on bishop.

Section 10 – Environmental Controls

Material Handling, Loading and Unloading, Delivery, and Vehicle staging

- The hazard assessment in Appendix H outlines the safety guidelines for all construction workers and public from falling materials, equipment or debris from a construction project.
- Material handling while loading/unloading is outlined in Appendix H to ensure all construction workers avoid injury.
- All delivery routes are outlined in the haul route plan in Appendix F.

Street cleaning, Stormwater management and Run off Pollution

The public street will be kept free from any construction debris and dust as a result of construction. All exits to site will be equipped with rumble strips to knock any excess dirt or mud off tires. Runoff will be managed as necessary by the civil contractor through use of a silt fence and catch basin protection should it be deemed necessary.

Dust will be kept down during civil works and later stages by watering down the ground as necessary. As for the upper floors during construction, dustpane will be sprinkled to control the dust as well as a daily cleanup will occur to avoid any build up. Vehicles will not be left idling while stationary unless needed for their function of work to prevent excess emissions as a result of construction.

The Construction Manager in conjunction with the civil contractor will monitor the streets & ROW daily and record the inspections. The streets/ ROW will always be kept clean from debris.

Any snow that builds up on the outside of barriers will be the responsibility of the Developer/ Construction Manager

Noise Pollution

Noise Mitigation

- Construction activities will be performed in accordance with HRM noise by law, and no unnecessary noise pollution will be generated as a result of construction.
- All noise will be kept to a minimum by proper coordination with trades

Surrounding Community

- If excessive noise is upcoming, the surrounding community will be given a notice of the upcoming activities 5 days beforehand.
- Appendix J includes an “Upcoming Activities” form that will be filled out and posted on our development board frequently. If any questions arise, there will be contact information posted so the surrounding community can voice their concerns.

Rodent control

- In the case of rodent infestation, Target Pest Control will be called to take care of the situation. The rodent control company plan is in Appendix L along with the Contrac Blox

product they will be using. Start date for this will be the first week of construction and is to be coordinated on site with the Site Superintendent. This plan will be updated throughout the project as it progresses.

- Rodent Control Plan Steps
    - An on-call technician will be called to the construction site
    - The technician will bring all baiting and trapping equipment required for any type of situation typical to small construction sites
    - A property inspection will occur, and the technician will assess the construction site.
    - The site superintendent and technician will then schedule either weekly or monthly visits depending on the situation.
    - There will then be a written plan posted on site and the infestation will be monitored.

Rodent Control Contact

Target Pest Control
PO Box 231
Lower Sackville, NS B4C 2S9
(902) 817-9200

Temporary Lighting

- If temporary lighting is needed on site, 110v string lighting will be used to illuminate the area.

Section 11 – Pre-Construction Consultation

Killam Apartment REIT. and Marco Group Ltd. are committed to positive public engagement throughout the construction processes. In preparation of this CMP, Marco has delivered an information package and held a meeting with residents of the area. The information package, invites to the meeting, and meeting minutes are shown in Appendix J.

Consultations by Killam Apartment REIT., Marco Group and the design team together with Halifax Regional Municipality, Nova Scotia Power, Halifax Water Commission, NS Department of Labour and residents' groups are ongoing and will continue throughout the planning and construction phases.

A pre-construction meeting is to be held on site with HRM prior to commencing work on site.

Notification Requirements

- An anticipated activities update will be posted on Monday of every week outside the construction site in a waterproof sleeve to give the surrounding community notice about upcoming activities.
- The contents of this notice include date and time of activity, purpose, description, anticipated disruptions, noises as well as dirt and dust triggers.

- If there is an update to the anticipated activities, these will be dealt with immediately and a new notice will be posted.
- A copy of the form is in Appendix J.

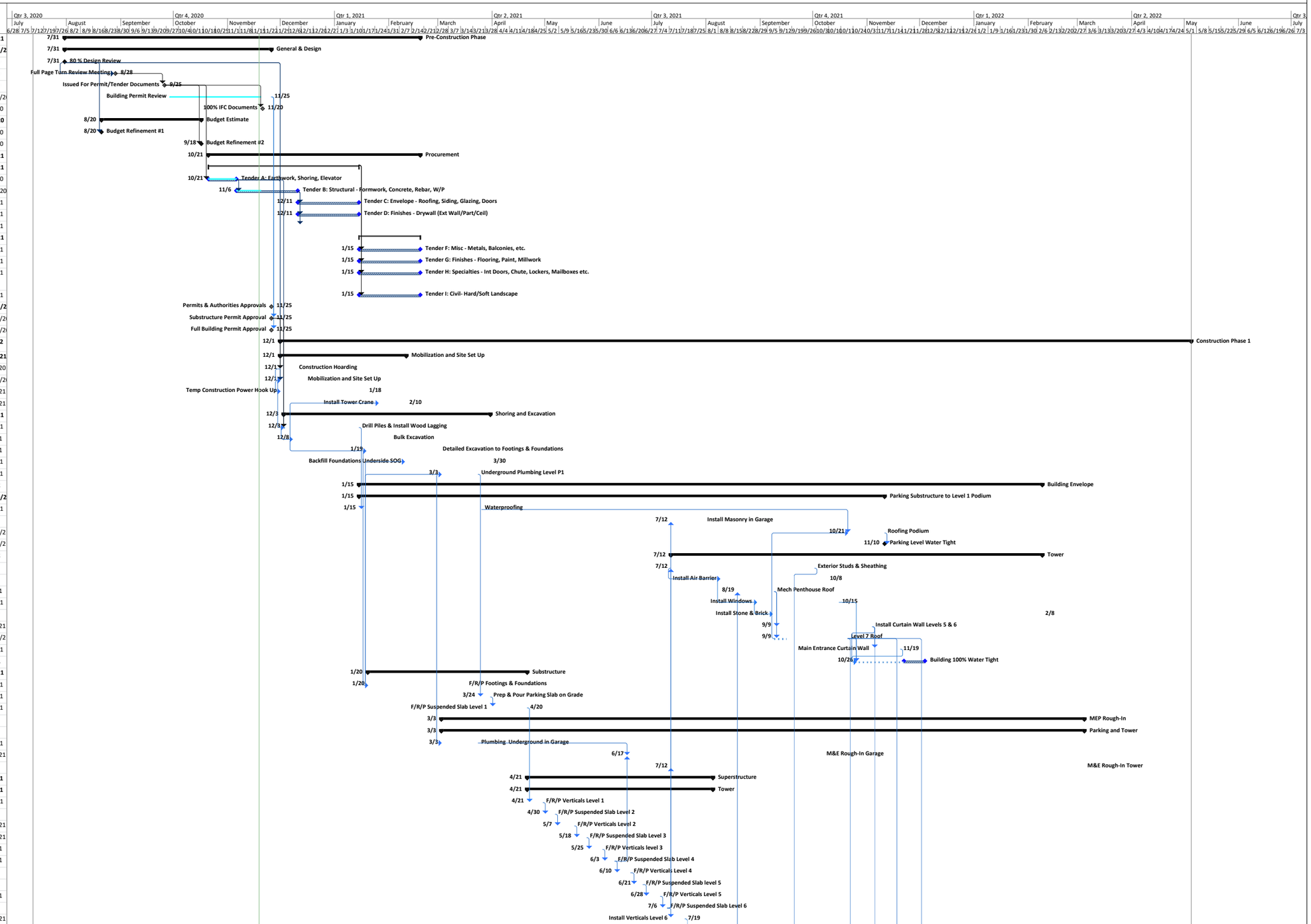
Appendix A – Construction Schedule

MARCO
BUILDERS OF ATLANTIC CANADA

The Governor
Preconstruction/Construction Schedule

Last Updated: Thu 11/19/20

ID	Task Name	Duration	Start	Finish
1	**Pre-Construction Phase**	**145 days**	**Fri 7/31/20**	**Thu 2/18/21**
2	**General & Design**	**84 days**	**Fri 7/31/20**	**Wed 11/25/2**
3	80 % Design Review	0 days	Fri 7/31/20	Fri 7/31/20
4	Full Page Turn Review Meeting	0 days	Fri 8/28/20	Fri 8/28/20
5	Issued For Permit/Tender Documents	0 days	Fri 9/25/20	Fri 9/25/20
6	Building Permit Review	42 days	Tue 9/29/20	Wed 11/25/2
7	100% IFC Documents	0 days	Fri 11/20/20	Fri 11/20/20
8	**Budget Estimate**	**41 days**	**Thu 8/20/20**	**Fri 10/16/20**
9	Budget Refinement #1	0 days	Thu 8/20/20	Thu 8/20/20
10	Budget Refinement #2	0 days	Fri 9/18/20	Fri 10/16/20
11	**Procurement**	**87 days**	**Wed 10/21/2**	**Thu 2/18/21**
12	**Primary Tenders**	**62 days**	**Wed 10/21/2**	**Thu 1/14/21**
13	Tender A: Earthwork, Shoring, Elevator	12 days	Wed 10/21/2	Thu 11/5/20
14	Tender B: Structural - Formwork, Concrete, Rebar, W/P	25 days	Fri 11/6/20	Thu 12/10/20
15	Tender C: Envelope - Roofing, Siding, Glazing, Doors	25 days	Fri 12/11/20	Thu 1/14/21
16	Tender D: Finishes - Drywall (Ext Wall/Part/Ceil)	25 days	Fri 12/11/20	Thu 1/14/21
17	Tender E: M&E - HVAC, Plumbing, Fire, Electrcal	25 days	Fri 12/11/20	Thu 1/14/21
18	**Secondary Tenders**	**25 days**	**Fri 1/15/21**	**Thu 2/18/21**
19	Tender F: Misc - Metals, Balconies, etc.	25 days	Fri 1/15/21	Thu 2/18/21
20	Tender G: Finishes - Flooring, Paint, Millwork	25 days	Fri 1/15/21	Thu 2/18/21
21	Tender H: Specialties - Int Doors, Chute, Lockers, Mailboxes etc.	25 days	Fri 1/15/21	Thu 2/18/21
22	Tender I: Civil- Hard/Soft Landscape	25 days	Fri 1/15/21	Thu 2/18/21
23	**Permits & Authorities Approvals**	**0 days**	**Wed 11/25/2**	**Wed 11/25/2**
24	Substructure Permit Approval	0 days	Wed 11/25/2	Wed 11/25/2
25	Full Building Permit Approval	0 days	Wed 11/25/2	Wed 11/25/2
26	**Construction Phase 1**	**372 days**	**Tue 12/1/20**	**Wed 5/4/22**
33	**Mobilization and Site Set Up**	**52 days**	**Tue 12/1/20**	**Wed 2/10/21**
34	Construction Hoarding	7 days	Tue 12/1/20	Wed 12/9/20
35	Mobilization and Site Set Up	10 days	Tue 12/1/20	Mon 12/14/2
36	Temp Construction Power Hook Up	35 days	Tue 12/1/20	Mon 1/18/21
37	Install Tower Crane	12 days	Tue 1/26/21	Wed 2/10/21
38	**Shoring and Excavation**	**84 days**	**Thu 12/3/20**	**Tue 3/30/21**
39	Drill Piles & Install Wood Lagging	30 days	Thu 12/3/20	Thu 1/14/21
40	Bulk Excavation	40 days	Tue 12/8/20	Mon 2/1/21
41	Detailed Excavation to Footings & Foundations	30 days	Tue 1/19/21	Mon 3/1/21
42	Backfill Foundations Underside SOG	35 days	Wed 2/10/21	Tue 3/30/21
43	Underground Plumbing Level P1	15 days	Wed 3/3/21	Tue 3/23/21
44	**Building Envelope**	**278 days**	**Fri 1/15/21**	**Tue 2/8/22**
45	**Parking Substructure to Level 1 Podium**	**214 days**	**Fri 1/15/21**	**Wed 11/10/2**
46	Waterproofing	50 days	Fri 1/15/21	Thu 3/25/21
47	Install Masonry in Garage	15 days	Mon 7/12/21	Fri 7/30/21
48	Roofing Podium	15 days	Thu 10/21/21	Wed 11/10/2
49	Parking Level Water Tight	0 days	Wed 11/10/2	Wed 11/10/2
50	**Tower**	**152 days**	**Mon 7/12/21**	**Tue 2/8/22**
51	Exterior Studs & Sheathing	60 days	Mon 7/12/21	Fri 10/1/21
52	Install Air Barrier	45 days	Mon 8/9/21	Fri 10/8/21
53	Mech Penthouse Roof	15 days	Thu 8/19/21	Wed 9/8/21
54	Install Windows	35 days	Mon 8/30/21	Fri 10/15/21
55	Install Stone & Brick	110 days	Wed 9/8/21	Tue 2/8/22
56	Install Curtain Wall Levels 5 & 6	40 days	Thu 9/9/21	Wed 11/3/21
57	Level 7 Roof	25 days	Thu 9/9/21	Wed 10/20/2
58	Main Entrance Curtain Wall	12 days	Thu 11/4/21	Fri 11/19/21
59	**Building 100% Water Tight**	**10 days**	**Tue 10/26/21**	**Fri 12/3/21**
60	**Substructure**	**65 days**	**Wed 1/20/21**	**Tue 4/20/21**
61	F/R/P Footings & Foundations	40 days	Wed 1/20/21	Tue 3/16/21
62	Prep & Pour Parking Slab on Grade	5 days	Wed 3/24/21	Tue 3/30/21
63	F/R/P Suspended Slab Level 1	15 days	Wed 3/31/21	Tue 4/20/21
64	**MEP Rough-In**	**263 days**	**Wed 3/3/21**	**Fri 3/4/22**
65	**Parking and Tower**	**263 days**	**Wed 3/3/21**	**Fri 3/4/22**
66	Plumbing Underground in Garage	15 days	Wed 3/3/21	Tue 3/23/21
67	M&E Rough-In Garage	80 days	Thu 6/17/21	Wed 10/6/21
68	M&E Rough-In Tower	170 days	Mon 7/12/21	Fri 3/4/22
69	**Superstructure**	**76 days**	**Wed 4/21/21**	**Wed 8/4/21**
70	**Tower**	**76 days**	**Wed 4/21/21**	**Wed 8/4/21**
71	F/R/P Verticals Level 1	7 days	Wed 4/21/21	Thu 4/29/21
72	F/R/P Suspended Slab Level 2	5 days	Fri 4/30/21	Thu 5/6/21
73	F/R/P Verticals Level 2	7 days	Fri 5/7/21	Mon 5/17/21
74	F/R/P Suspended Slab Level 3	5 days	Tue 5/18/21	Mon 5/24/21
75	F/R/P Verticals level 3	7 days	Tue 5/25/21	Wed 6/2/21
76	F/R/P Suspended Slab Level 4	5 days	Thu 6/3/21	Wed 6/9/21
77	F/R/P Verticals Level 4	7 days	Thu 6/10/21	Fri 6/18/21
78	F/R/P Suspended Slab level 5	5 days	Mon 6/21/21	Fri 6/25/21
79	F/R/P Verticals Level 5	6 days	Mon 6/28/21	Mon 7/5/21
80	F/R/P Suspended Slab Level 6	4 days	Tue 7/6/21	Fri 7/9/21
81	Install Verticals Level 6	6 days	Mon 7/12/21	Mon 7/19/21



MARCO
BUILDERS OF ATLANTIC CANADA

The Governor
Preconstruction/Construction Schedule

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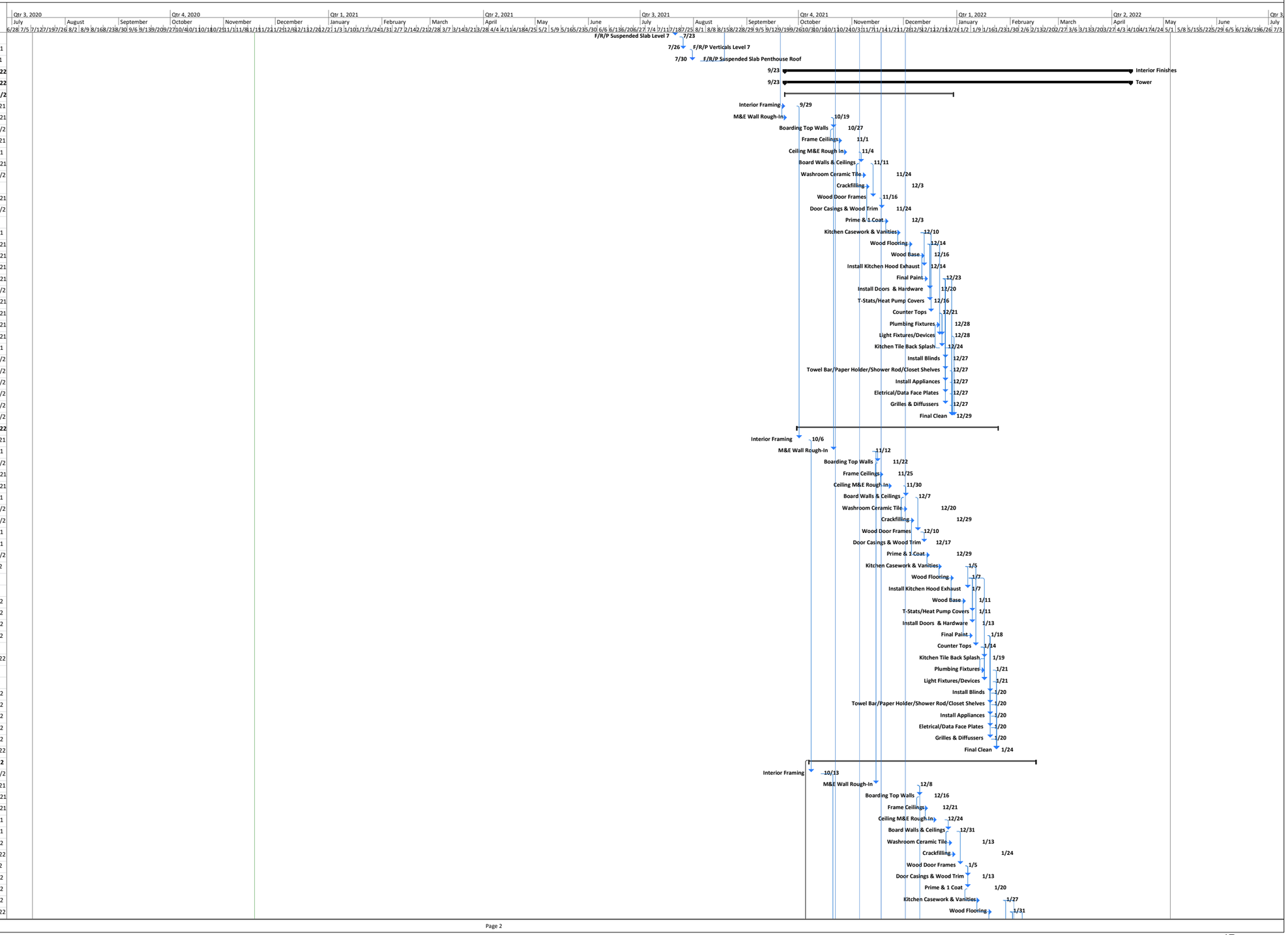
ID	Task Name	Duration	Start	Finish
82	F/R/P Suspended Slab Level 7	4 days	Tue 7/20/21	Fri 7/23/21
83	F/R/P Verticals Level 7	4 days	Mon 7/26/21	Thu 7/29/21
84	F/R/P Suspended Slab Penthouse Roof	4 days	Fri 7/30/21	Wed 8/4/21
85	**Interior Finishes**	**143 days**	**Thu 9/23/21**	**Mon 4/11/22**
86	**Tower**	**143 days**	**Thu 9/23/21**	**Mon 4/11/22**
87	**Interior Finishes Level 6**	**70 days**	**Thu 9/23/21**	**Wed 12/29/2**
88	Interior Framing	5 days	Thu 9/23/21	Wed 9/29/21
89	M&E Wall Rough-In	18 days	Fri 9/24/21	Tue 10/19/21
90	Boarding Top Walls	5 days	Thu 10/21/21	Wed 10/27/2
91	Frame Ceilings	5 days	Tue 10/26/21	Mon 11/1/21
92	Ceiling M&E Rough In	5 days	Fri 10/29/21	Thu 11/4/21
93	Board Walls & Ceilings	5 days	Fri 11/5/21	Thu 11/11/21
94	Washroom Ceramic Tile	12 days	Tue 11/9/21	Wed 11/24/2
95	Crackfilling	17 days	Thu 11/11/21	Fri 12/3/21
96	Wood Door Frames	3 days	Fri 11/12/21	Tue 11/16/21
97	Door Casings & Wood Trim	5 days	Thu 11/18/21	Wed 11/24/2
98	Prime & 1 Coat	10 days	Mon 11/22/2	Fri 12/3/21
99	Kitchen Casework & Vanities	10 days	Mon 11/29/2	Fri 12/10/21
100	Wood Flooring	7 days	Mon 12/6/21	Tue 12/14/21
101	Wood Base	4 days	Mon 12/13/2	Thu 12/16/21
102	Install Kitchen Hood Exhaust	2 days	Mon 12/13/2	Tue 12/14/21
103	Final Paint	7 days	Wed 12/15/2	Thu 12/23/21
104	Install Doors & Hardware	4 days	Wed 12/15/2	Mon 12/20/2
105	T-Stats/Heat Pump Covers	2 days	Wed 12/15/2	Thu 12/16/21
106	Counter Tops	3 days	Fri 12/17/21	Tue 12/21/21
107	Plumbing Fixtures	5 days	Wed 12/22/2	Tue 12/28/21
108	Light Fixtures/Devices	5 days	Wed 12/22/2	Tue 12/28/21
109	Kitchen Tile Back Splash	3 days	Wed 12/22/2	Fri 12/24/21
110	Install Blinds	2 days	Fri 12/24/21	Mon 12/27/2
111	Towel Bar/Paper Holder/Shower Rod/Closet Shelves	2 days	Fri 12/24/21	Mon 12/27/2
112	Install Appliances	2 days	Fri 12/24/21	Mon 12/27/2
113	Eletrical/Data Face Plates	2 days	Fri 12/24/21	Mon 12/27/2
114	Grilles & Diffussers	2 days	Fri 12/24/21	Mon 12/27/2
115	Final Clean	1 day	Wed 12/29/2	Wed 12/29/2
116	**Interior Finishes Level 5**	**83 days**	**Thu 9/30/21**	**Mon 1/24/22**
117	Interior Framing	5 days	Thu 9/30/21	Wed 10/6/21
118	M&E Wall Rough-In	18 days	Wed 10/20/2	Fri 11/12/21
119	Boarding Top Walls	5 days	Tue 11/16/21	Mon 11/22/2
120	Frame Ceilings	5 days	Fri 11/19/21	Thu 11/25/21
121	Ceiling M&E Rough In	5 days	Wed 11/24/2	Tue 11/30/21
122	Board Walls & Ceilings	5 days	Wed 12/1/21	Tue 12/7/21
123	Washroom Ceramic Tile	12 days	Fri 12/3/21	Mon 12/20/2
124	Crackfilling	17 days	Tue 12/7/21	Wed 12/29/2
125	Wood Door Frames	3 days	Wed 12/8/21	Fri 12/10/21
126	Door Casings & Wood Trim	5 days	Mon 12/13/2	Fri 12/17/21
127	Prime & 1 Coat	10 days	Thu 12/16/21	Wed 12/29/2
128	Kitchen Casework & Vanities	10 days	Thu 12/23/21	Wed 1/5/22
129	Wood Flooring	7 days	Thu 12/30/21	Fri 1/7/22
130	Install Kitchen Hood Exhaust	2 days	Thu 1/6/22	Fri 1/7/22
131	Wood Base	4 days	Thu 1/6/22	Tue 1/11/22
132	T-Stats/Heat Pump Covers	2 days	Mon 1/10/22	Tue 1/11/22
133	Install Doors & Hardware	4 days	Mon 1/10/22	Thu 1/13/22
134	Final Paint	7 days	Mon 1/10/22	Tue 1/18/22
135	Counter Tops	3 days	Wed 1/12/22	Fri 1/14/22
136	Kitchen Tile Back Splash	3 days	Mon 1/17/22	Wed 1/19/22
137	Plumbing Fixtures	5 days	Mon 1/17/22	Fri 1/21/22
138	Light Fixtures/Devices	5 days	Mon 1/17/22	Fri 1/21/22
139	Install Blinds	2 days	Wed 1/19/22	Thu 1/20/22
140	Towel Bar/Paper Holder/Shower Rod/Closet Shelves	2 days	Wed 1/19/22	Thu 1/20/22
141	Install Appliances	2 days	Wed 1/19/22	Thu 1/20/22
142	Eletrical/Data Face Plates	2 days	Wed 1/19/22	Thu 1/20/22
143	Grilles & Diffussers	2 days	Wed 1/19/22	Thu 1/20/22
144	Final Clean	1 day	Mon 1/24/22	Mon 1/24/22
145	**Interior Finishes Level 4**	**94 days**	**Thu 10/7/21**	**Tue 2/15/22**
146	Interior Framing	5 days	Thu 10/7/21	Wed 10/13/2
147	M&E Wall Rough-In	18 days	Mon 11/15/2	Wed 12/8/21
148	Boarding Top Walls	5 days	Fri 12/10/21	Thu 12/16/21
149	Frame Ceilings	5 days	Wed 12/15/2	Tue 12/21/21
150	Ceiling M&E Rough In	5 days	Mon 12/20/2	Fri 12/24/21
151	Board Walls & Ceilings	5 days	Mon 12/27/2	Fri 12/31/21
152	Washroom Ceramic Tile	12 days	Wed 12/29/2	Thu 1/13/22
153	Crackfilling	17 days	Fri 12/31/21	Mon 1/24/22
154	Wood Door Frames	3 days	Mon 1/3/22	Wed 1/5/22
155	Door Casings & Wood Trim	5 days	Fri 1/7/22	Thu 1/13/22
156	Prime & 1 Coat	10 days	Fri 1/7/22	Thu 1/20/22
157	Kitchen Casework & Vanities	10 days	Fri 1/14/22	Thu 1/27/22
158	Wood Flooring	7 days	Fri 1/21/22	Mon 1/31/22



MARCO
BUILDERS OF ATLANTIC CANADA

The Governor
Preconstruction/Construction Schedule

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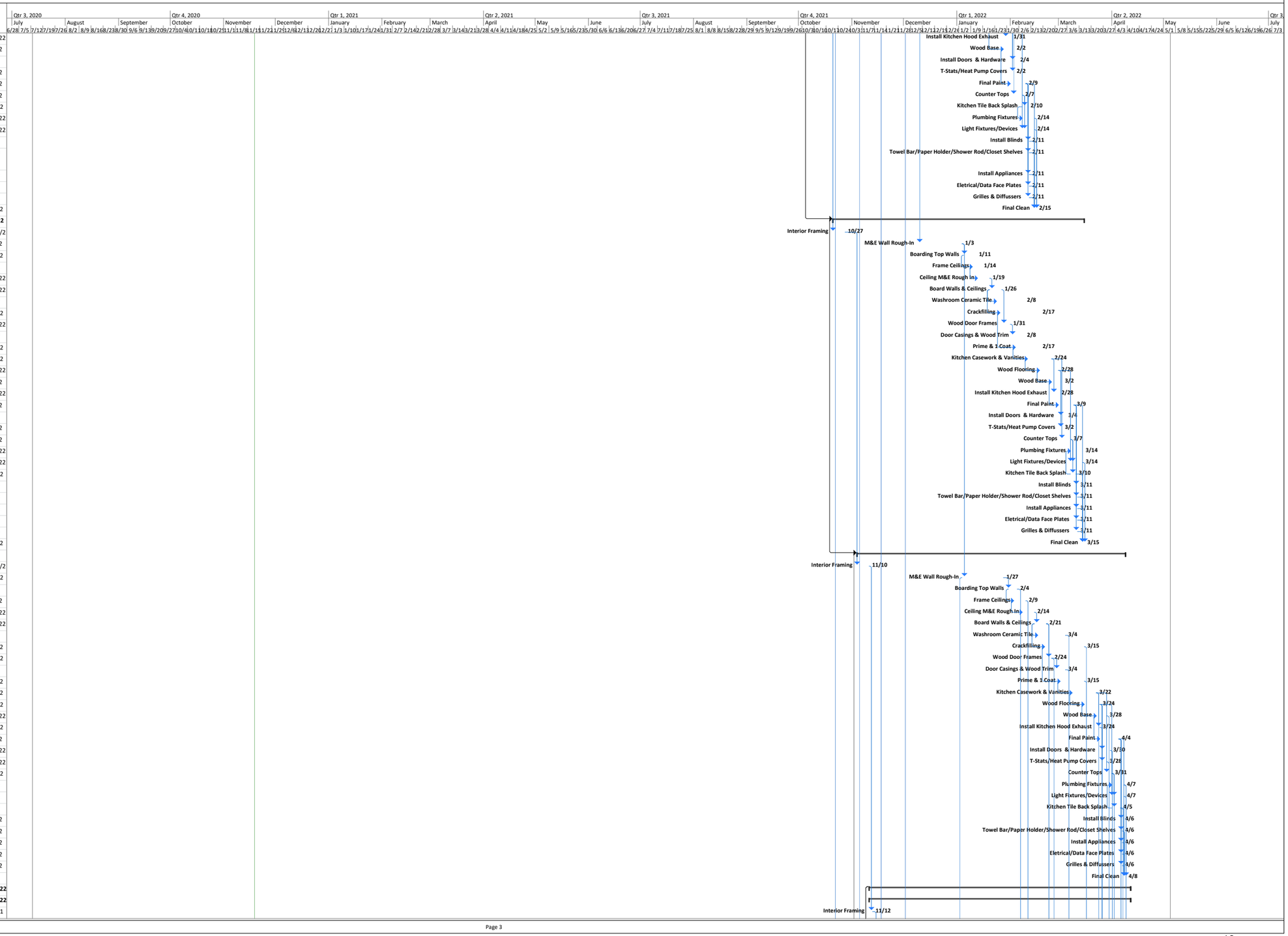
ID	Task Name	Duration	Start	Finish
159	Install Kitchen Hood Exhaust	2 days	Fri 1/28/22	Mon 1/31/22
160	Wood Base	4 days	Fri 1/28/22	Wed 2/2/22
161	Install Doors & Hardware	4 days	Tue 2/1/22	Fri 2/4/22
162	T-Stats/Heat Pump Covers	2 days	Tue 2/1/22	Wed 2/2/22
163	Final Paint	7 days	Tue 2/1/22	Wed 2/9/22
164	Counter Tops	3 days	Thu 2/3/22	Mon 2/7/22
165	Kitchen Tile Back Splash	3 days	Tue 2/8/22	Thu 2/10/22
166	Plumbing Fixtures	5 days	Tue 2/8/22	Mon 2/14/22
167	Light Fixtures/Devices	5 days	Tue 2/8/22	Mon 2/14/22
168	Install Blinds	2 days	Thu 2/10/22	Fri 2/11/22
169	Towel Bar/Paper Holder/Shower Rod/Closet Shelves	2 days	Thu 2/10/22	Fri 2/11/22
170	Install Appliances	2 days	Thu 2/10/22	Fri 2/11/22
171	Eletrical/Data Face Plates	2 days	Thu 2/10/22	Fri 2/11/22
172	Grilles & Diffussers	2 days	Thu 2/10/22	Fri 2/11/22
173	Final Clean	1 day	Tue 2/15/22	Tue 2/15/22
174	**Interior Finishes Level 3**	**104 days**	**Thu 10/21/21**	**Tue 3/15/22**
175	Interior Framing	5 days	Thu 10/21/21	Wed 10/27/2
176	M&E Wall Rough-In	18 days	Thu 12/9/21	Mon 1/3/22
177	Boarding Top Walls	5 days	Wed 1/5/22	Tue 1/11/22
178	Frame Ceilings	5 days	Mon 1/10/22	Fri 1/14/22
179	Ceiling M&E Rough In	5 days	Thu 1/13/22	Wed 1/19/22
180	Board Walls & Ceilings	5 days	Thu 1/20/22	Wed 1/26/22
181	Washroom Ceramic Tile	12 days	Mon 1/24/22	Tue 2/8/22
182	Crackfilling	17 days	Wed 1/26/22	Thu 2/17/22
183	Wood Door Frames	3 days	Thu 1/27/22	Mon 1/31/22
184	Door Casings & Wood Trim	5 days	Wed 2/2/22	Tue 2/8/22
185	Prime & 1 Coat	10 days	Fri 2/4/22	Thu 2/17/22
186	Kitchen Casework & Vanities	10 days	Fri 2/11/22	Thu 2/24/22
187	Wood Flooring	7 days	Fri 2/18/22	Mon 2/28/22
188	Wood Base	4 days	Fri 2/25/22	Wed 3/2/22
189	Install Kitchen Hood Exhaust	2 days	Fri 2/25/22	Mon 2/28/22
190	Final Paint	7 days	Tue 3/1/22	Wed 3/9/22
191	Install Doors & Hardware	4 days	Tue 3/1/22	Fri 3/4/22
192	T-Stats/Heat Pump Covers	2 days	Tue 3/1/22	Wed 3/2/22
193	Counter Tops	3 days	Thu 3/3/22	Mon 3/7/22
194	Plumbing Fixtures	5 days	Tue 3/8/22	Mon 3/14/22
195	Light Fixtures/Devices	5 days	Tue 3/8/22	Mon 3/14/22
196	Kitchen Tile Back Splash	3 days	Tue 3/8/22	Thu 3/10/22
197	Install Blinds	2 days	Thu 3/10/22	Fri 3/11/22
198	Towel Bar/Paper Holder/Shower Rod/Closet Shelves	2 days	Thu 3/10/22	Fri 3/11/22
199	Install Appliances	2 days	Thu 3/10/22	Fri 3/11/22
200	Eletrical/Data Face Plates	2 days	Thu 3/10/22	Fri 3/11/22
201	Grilles & Diffussers	2 days	Thu 3/10/22	Fri 3/11/22
202	Final Clean	1 day	Tue 3/15/22	Tue 3/15/22
203	**Interior Finishes Level 2**	**112 days**	**Thu 11/4/21**	**Fri 4/8/22**
204	Interior Framing	5 days	Thu 11/4/21	Wed 11/10/2
205	M&E Wall Rough-In	18 days	Tue 1/4/22	Thu 1/27/22
206	Boarding Top Walls	5 days	Mon 1/31/22	Fri 2/4/22
207	Frame Ceilings	5 days	Thu 2/3/22	Wed 2/9/22
208	Ceiling M&E Rough In	5 days	Tue 2/8/22	Mon 2/14/22
209	Board Walls & Ceilings	5 days	Tue 2/15/22	Mon 2/21/22
210	Washroom Ceramic Tile	12 days	Thu 2/17/22	Fri 3/4/22
211	Crackfilling	17 days	Mon 2/21/22	Tue 3/15/22
212	Wood Door Frames	3 days	Tue 2/22/22	Thu 2/24/22
213	Door Casings & Wood Trim	5 days	Mon 2/28/22	Fri 3/4/22
214	Prime & 1 Coat	10 days	Wed 3/2/22	Tue 3/15/22
215	Kitchen Casework & Vanities	10 days	Wed 3/9/22	Tue 3/22/22
216	Wood Flooring	7 days	Wed 3/16/22	Thu 3/24/22
217	Wood Base	4 days	Wed 3/23/22	Mon 3/28/22
218	Install Kitchen Hood Exhaust	2 days	Wed 3/23/22	Thu 3/24/22
219	Final Paint	7 days	Fri 3/25/22	Mon 4/4/22
220	Install Doors & Hardware	4 days	Fri 3/25/22	Wed 3/30/22
221	T-Stats/Heat Pump Covers	2 days	Fri 3/25/22	Mon 3/28/22
222	Counter Tops	3 days	Tue 3/29/22	Thu 3/31/22
223	Plumbing Fixtures	5 days	Fri 4/1/22	Thu 4/7/22
224	Light Fixtures/Devices	5 days	Fri 4/1/22	Thu 4/7/22
225	Kitchen Tile Back Splash	3 days	Fri 4/1/22	Tue 4/5/22
226	Install Blinds	2 days	Tue 4/5/22	Wed 4/6/22
227	Towel Bar/Paper Holder/Shower Rod/Closet Shelves	2 days	Tue 4/5/22	Wed 4/6/22
228	Install Appliances	2 days	Tue 4/5/22	Wed 4/6/22
229	Eletrical/Data Face Plates	2 days	Tue 4/5/22	Wed 4/6/22
230	Grilles & Diffussers	2 days	Tue 4/5/22	Wed 4/6/22
231	Final Clean	1 day	Fri 4/8/22	Fri 4/8/22
232	**Interior Finishes Level 1**	**108 days**	**Thu 11/11/21**	**Mon 4/11/22**
233	**Barrier Free Unit**	**108 days**	**Thu 11/11/21**	**Mon 4/11/22**
234	Interior Framing	2 days	Thu 11/11/21	Fri 12/12/21



MARCO
BUILDERS OF ATLANTIC CANADA

The Governor
Preconstruction/Construction Schedule

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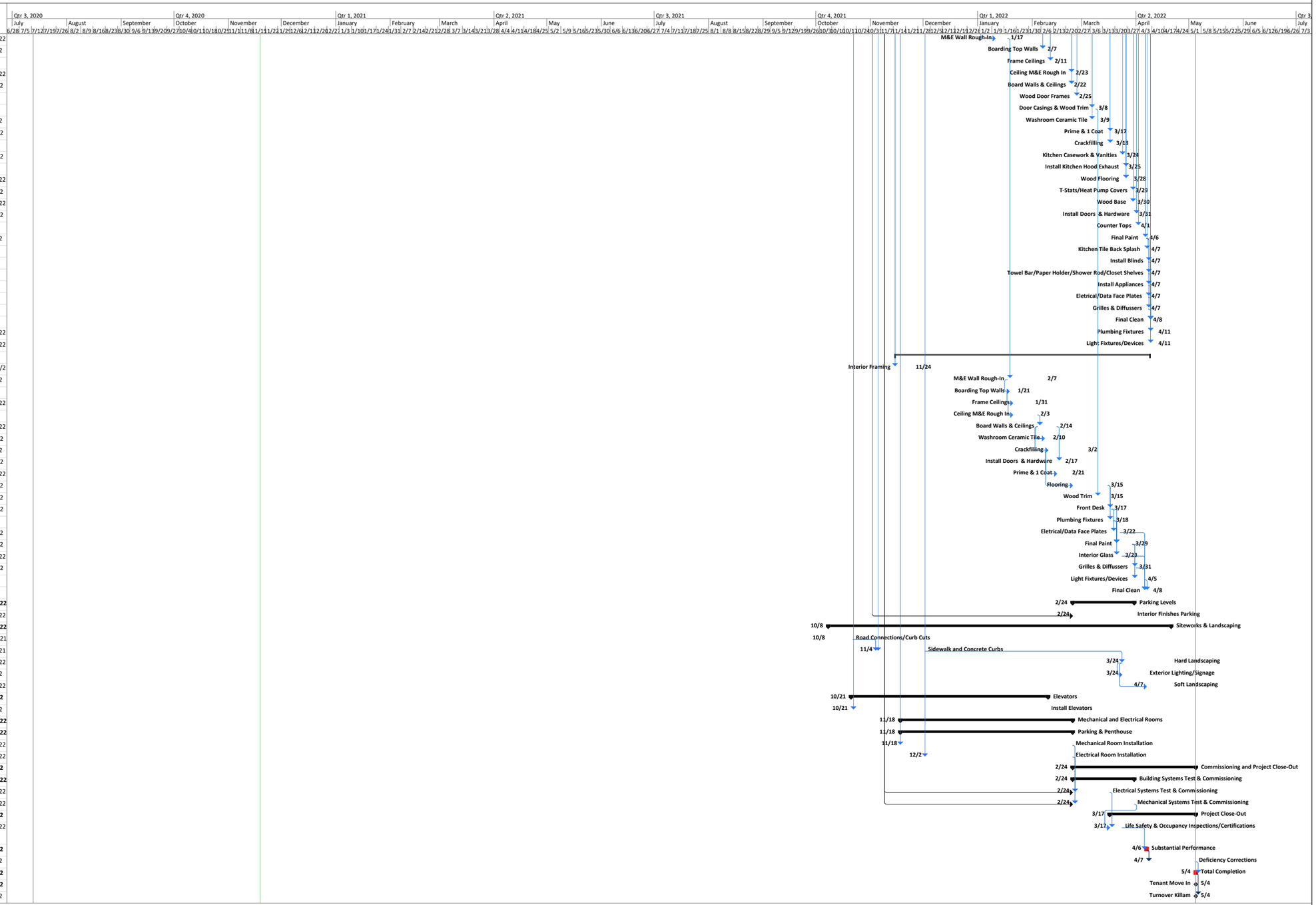
ID	Task Name	Duration	Start	Finish
235	M&E Wall Rough-In	5 days	Tue 1/11/22	Mon 1/17/22
236	Boarding Top Walls	1 day	Mon 2/7/22	Mon 2/7/22
237	Frame Ceilings	2 days	Thu 2/10/22	Fri 2/11/22
238	Ceiling M&E Rough In	2 days	Tue 2/22/22	Wed 2/23/22
239	Board Walls & Ceilings	1 day	Tue 2/22/22	Tue 2/22/22
240	Wood Door Frames	1 day	Fri 2/25/22	Fri 2/25/22
241	Door Casings & Wood Trim	2 days	Mon 3/7/22	Tue 3/8/22
242	Washroom Ceramic Tile	3 days	Mon 3/7/22	Wed 3/9/22
243	Prime & 1 Coat	2 days	Wed 3/16/22	Thu 3/17/22
244	Crackfilling	3 days	Wed 3/16/22	Fri 3/18/22
245	Kitchen Casework & Vanities	2 days	Wed 3/23/22	Thu 3/24/22
246	Install Kitchen Hood Exhaust	1 day	Fri 3/25/22	Fri 3/25/22
247	Wood Flooring	2 days	Fri 3/25/22	Mon 3/28/22
248	T-Stats/Heat Pump Covers	1 day	Tue 3/29/22	Tue 3/29/22
249	Wood Base	2 days	Tue 3/29/22	Wed 3/30/22
250	Install Doors & Hardware	1 day	Thu 3/31/22	Thu 3/31/22
251	Counter Tops	1 day	Fri 4/1/22	Fri 4/1/22
252	Final Paint	2 days	Tue 4/5/22	Wed 4/6/22
253	Kitchen Tile Back Splash	2 days	Wed 4/6/22	Thu 4/7/22
254	Install Blinds	1 day	Thu 4/7/22	Thu 4/7/22
255	Towel Bar/Paper Holder/Shower Rod/Closet Shelve	1 day	Thu 4/7/22	Thu 4/7/22
256	Install Appliances	1 day	Thu 4/7/22	Thu 4/7/22
257	Eletrical/Data Face Plates	1 day	Thu 4/7/22	Thu 4/7/22
258	Grilles & Diffussers	1 day	Thu 4/7/22	Thu 4/7/22
259	Final Clean	1 day	Fri 4/8/22	Fri 4/8/22
260	Plumbing Fixtures	2 days	Fri 4/8/22	Mon 4/11/22
261	Light Fixtures/Devices	2 days	Fri 4/8/22	Mon 4/11/22
262	**Common Spaces Level 1**	**105 days**	**Mon 11/15/2**	**Fri 4/8/22**
263	Interior Framing	8 days	Mon 11/15/2	Wed 11/24/2
264	M&E Wall Rough-In	15 days	Tue 1/18/22	Mon 2/7/22
265	Boarding Top Walls	3 days	Wed 1/19/22	Fri 1/21/22
266	Frame Ceilings	7 days	Fri 1/21/22	Mon 1/31/22
267	Ceiling M&E Rough In	10 days	Fri 1/21/22	Thu 2/3/22
268	Board Walls & Ceilings	7 days	Fri 2/4/22	Mon 2/14/22
269	Washroom Ceramic Tile	3 days	Tue 2/8/22	Thu 2/10/22
270	Crackfilling	15 days	Thu 2/10/22	Wed 3/2/22
271	Install Doors & Hardware	3 days	Tue 2/15/22	Thu 2/17/22
272	Prime & 1 Coat	5 days	Tue 2/15/22	Mon 2/21/22
273	Flooring	14 days	Thu 2/24/22	Tue 3/15/22
274	Wood Trim	5 days	Wed 3/9/22	Tue 3/15/22
275	Front Desk	2 days	Wed 3/16/22	Thu 3/17/22
276	Plumbing Fixtures	3 days	Wed 3/16/22	Fri 3/18/22
277	Eletrical/Data Face Plates	3 days	Fri 3/18/22	Tue 3/22/22
278	Final Paint	7 days	Mon 3/21/22	Tue 3/29/22
279	Interior Glass	3 days	Mon 3/21/22	Wed 3/23/22
280	Grilles & Diffussers	2 days	Wed 3/30/22	Thu 3/31/22
281	Light Fixtures/Devices	5 days	Wed 3/30/22	Tue 4/5/22
282	Final Clean	3 days	Wed 4/6/22	Fri 4/8/22
283	**Parking Levels**	**25 days**	**Thu 2/24/22**	**Wed 3/30/22**
284	Interior Finishes Parking	25 days	Thu 2/24/22	Wed 3/30/22
27	**Siteworks & Landscaping**	**139 days**	**Fri 10/8/21**	**Wed 4/20/22**
28	Road Connections/Curb Cuts	10 days	Fri 10/8/21	Thu 10/21/21
29	Sidewalk and Concrete Curbs	20 days	Thu 11/4/21	Wed 12/1/21
30	Hard Landscaping	20 days	Thu 3/24/22	Wed 4/20/22
32	Exterior Lighting/Signage	10 days	Thu 3/24/22	Wed 4/6/22
31	Soft Landscaping	10 days	Thu 4/7/22	Wed 4/20/22
285	**Elevators**	**80 days**	**Thu 10/21/21**	**Wed 2/9/22**
286	Install Elevators	80 days	Thu 10/21/21	Wed 2/9/22
287	**Mechanical and Electrical Rooms**	**70 days**	**Thu 11/18/21**	**Wed 2/23/22**
288	**Parking & Penthouse**	**70 days**	**Thu 11/18/21**	**Wed 2/23/22**
289	Mechanical Room Installation	70 days	Thu 11/18/21	Wed 2/23/22
290	Electrical Room Installation	60 days	Thu 12/2/21	Wed 2/23/22
291	**Commissioning and Project Close-Out**	**50 days**	**Thu 2/24/22**	**Wed 5/4/22**
292	**Building Systems Test & Commissioning**	**25 days**	**Thu 2/24/22**	**Wed 3/30/22**
293	Electrical Systems Test & Commissioning	15 days	Thu 2/24/22	Wed 3/16/22
294	Mechanical Systems Test & Commissioning	25 days	Thu 2/24/22	Wed 3/30/22
295	**Project Close-Out**	**35 days**	**Thu 3/17/22**	**Wed 5/4/22**
296	Life Safety & Occupancy Inspections/Certifications	5 days	Thu 3/17/22	Wed 3/23/22
297	**Substantial Performance**	**0 days**	**Wed 4/6/22**	**Wed 4/6/22**
298	Deficiency Corrections	20 days	Thu 4/7/22	Wed 5/4/22
299	**Total Completion**	**0 days**	**Wed 5/4/22**	**Wed 5/4/22**
300	**Tenant Move In**	**0 days**	**Wed 5/4/22**	**Wed 5/4/22**
301	Turnover Killam	0 days	Wed 5/4/22	Wed 5/4/22



Appendix B – Logistics Plan

This fence will be in this location until after the completion of the foundation scheduled for June 11, 2020

Development Information Board

One Lane

Emergency Vehicle Access

Proposed Pay Station Relocation

Existing Pay Station Location

Fire Department Connection

Laydown Area

Ramp at 5% grade with 4" pvc pipe for drainage

Temp Covered Sidewalk at Existing Parking Spaces

One Way

Standard parking space 7.5m+ away from corner

Tactile Warning Strip

Bike Lane

1.84m

0.6m

6.1m

15.25m

3.56m

6.0m

2.2m

BISHOP STREET

HOLLIS STREET

NEW BUILDING THE GOVERNOR

CIVIC 1441 HOLLIS
PID 00003749
LOT HOLLIS-1
PARKING LEVEL FFE:9.86m

CIVIC 1459
PID 00003756
BENJAMIN WEIR HOUSE

CIVIC 5121
PID 00471078
THE KILDONAN

STORMWATER CALCULATIONS - SCS METHOD

PRE-DEVELOPMENT CONDITIONS
SITE DRAINAGE AREA = 1034 m² ±
ON SITE
PRE-DEVELOPMENT PEAK DISCHARGE = 21.1 L/s ± (5YR)
PRE-DEVELOPMENT PEAK DISCHARGE = 24.2 L/s ± (10YR)
PRE-DEVELOPMENT PEAK DISCHARGE = 26.3 L/s ± (25YR)
PRE-DEVELOPMENT PEAK DISCHARGE = 28.7 L/s ± (50YR)
PRE-DEVELOPMENT PEAK DISCHARGE = 33.5 L/s ± (100YR)

POST-DEVELOPMENT CONDITIONS
SITE DRAINAGE AREA = 1034 m² ±
ON SITE
POST-DEVELOPMENT PEAK DISCHARGE = 21.1 L/s ± (5YR)
POST-DEVELOPMENT PEAK DISCHARGE = 24.2 L/s ± (10YR)
POST-DEVELOPMENT PEAK DISCHARGE = 26.3 L/s ± (25YR)
POST-DEVELOPMENT PEAK DISCHARGE = 28.7 L/s ± (50YR)
POST-DEVELOPMENT PEAK DISCHARGE = 33.5 L/s ± (100YR)

CLASSIFICATIONS

	AREA (m²)
	785
	0
	249

Laydown Area

One Way

Notes:

PROJECT TITLE

Governors Plaza

DRAWING TITLE

Site Logistics Plan

DRAWN BY:

B. White

DATE:

09-29-2020

SCALE:

1:250

DRAWING No.

1

Appendix C – Concrete Pour Logistics Plans

Concrete Delivery Plan

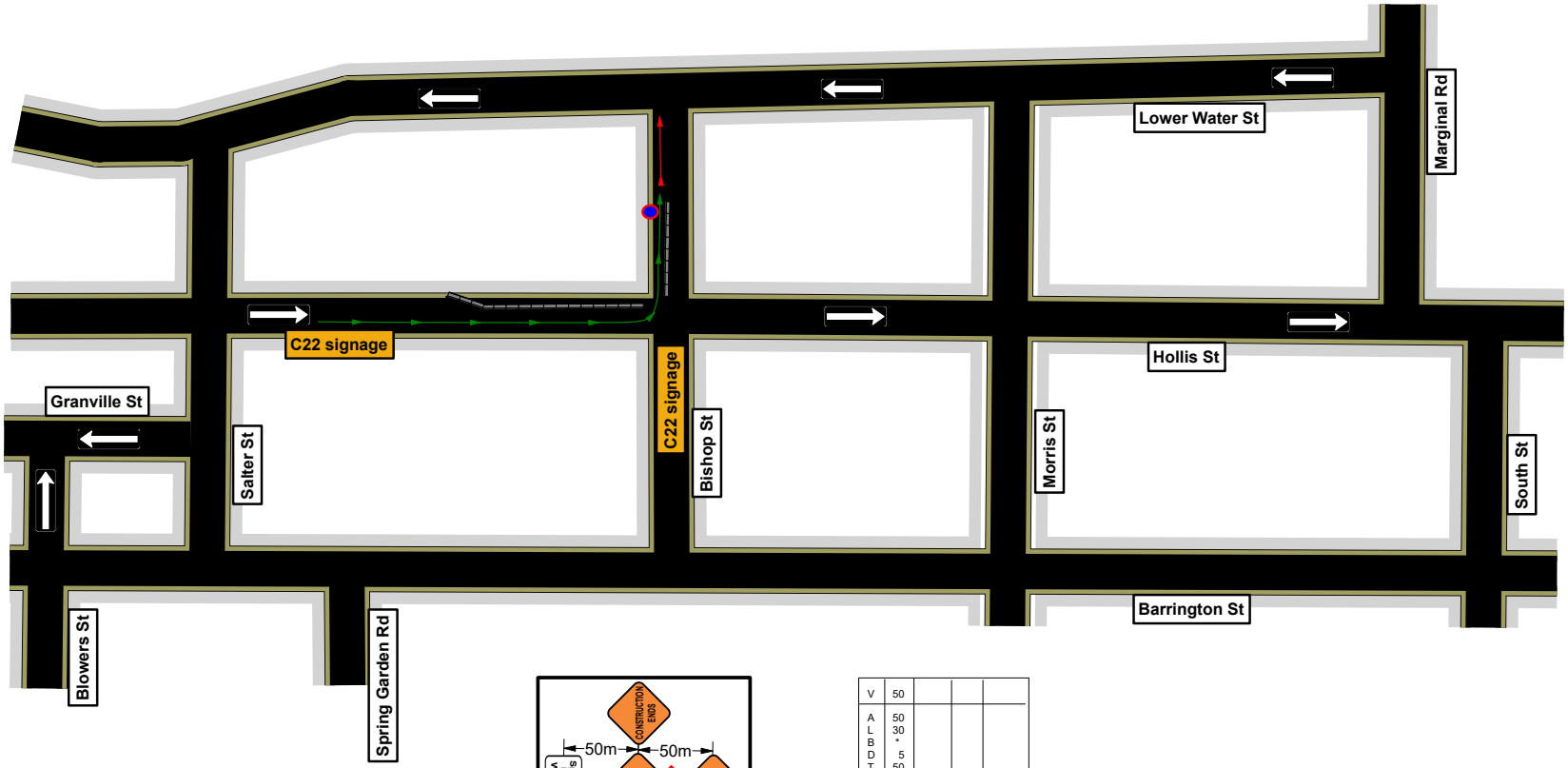
Date: 2020-11-16 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: Governor Plaza
Contractor: MARCO Contact: Zavin Graham, 902-877-4410

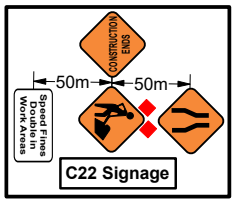
Comments:

Not to Scale
Application Guide C22
Plan for the delivery of concrete
See Pedestrian Management Plan for sidewalk closure details

Legend

- Concrete Trucks Inbound
- Concrete Trucks Outbound
- F-type Barrier
- Spotter





V	50			
A	50			
L	30			
B	*			
D	5			
T	50			

V - Speed Zone	km/h
A - Sign Spacing	m
L - Taper Length	m
B - Buffer Area Length	m
D - Cone/Drum Spacing	m
T - Length Between Tapers	m

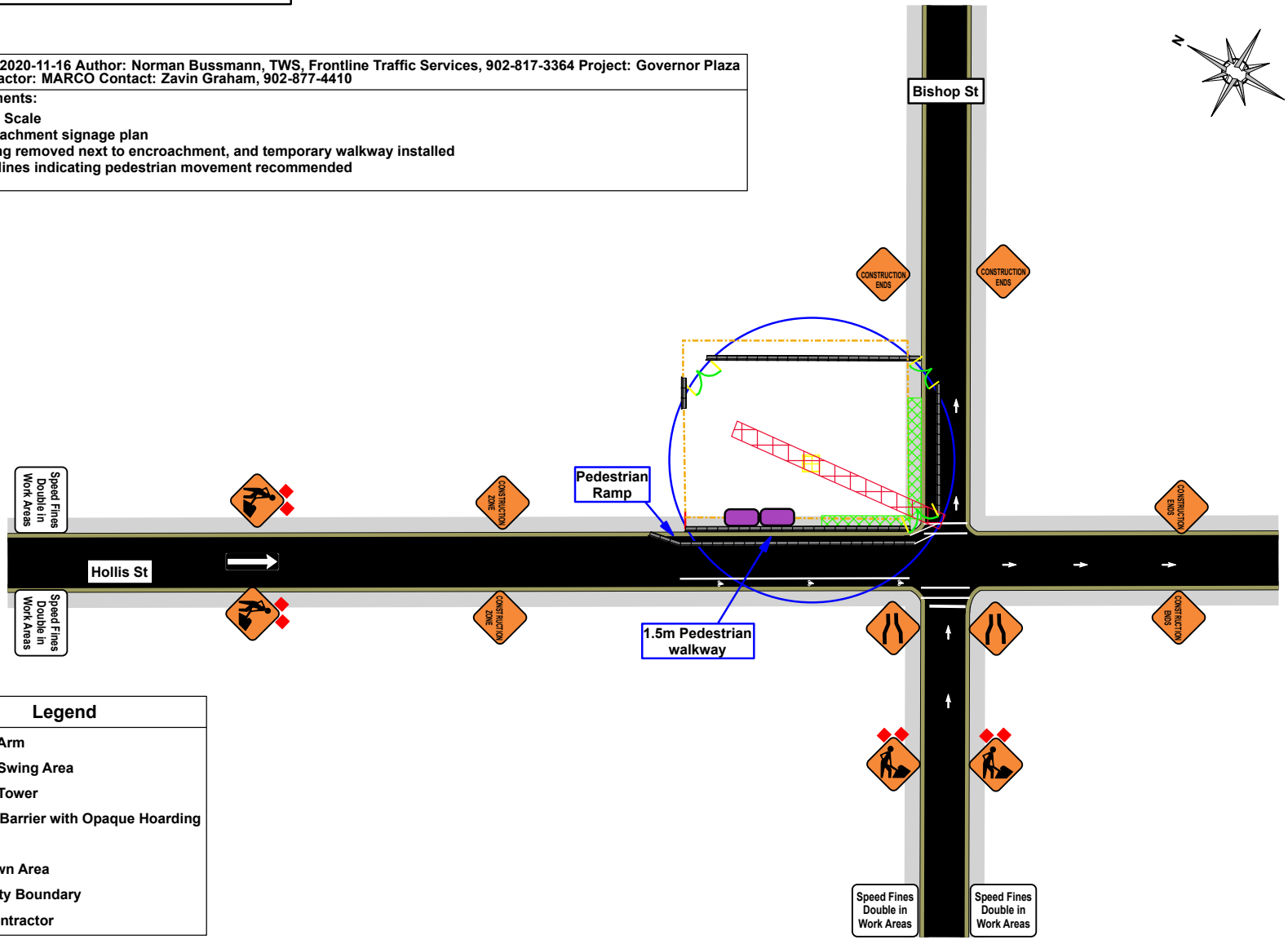
Appendix D – Street & Sidewalk Encroachment Plan

Encroachment Signage Plan

Date: 2020-11-16 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: Governor Plaza
Contractor: MARCO Contact: Zavin Graham, 902-877-4410

Comments:

Not to Scale
Encroachment signage plan
Parking removed next to encroachment, and temporary walkway installed
Paint lines indicating pedestrian movement recommended



Water, Sanitary and Storm Service Laterals Plan

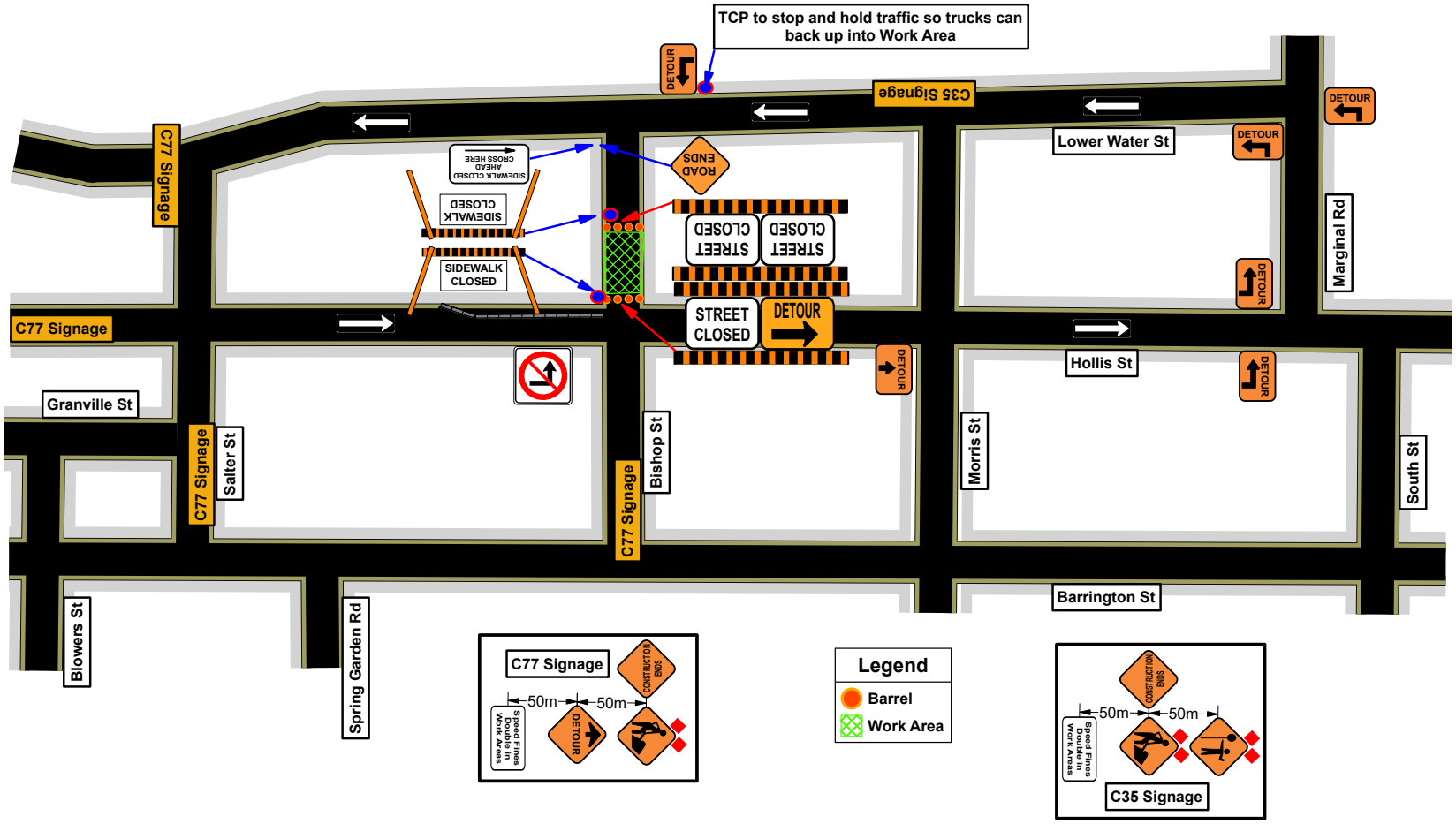
Date: 2020-11-16 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: Governor Plaza
Contractor: MARCO Contact: Zavin Graham, 902-877-4410

Comments:

Not to Scale
Application guide C77
Traffic control plan for installation of water, storm, sanitary services and the installation of Manhole
Traffic Control Persons to assist with residents entering and exiting Bishop St.

V	50			
A	50			
L	30			
B	*			
D	5			
T	50			

V - Speed Zone	km/h
A - Sign Spacing	m
L - Taper Length	m
B - Buffer Area Length	m
D - Cone/Drum Spacing	m
T - Length Between Tapers	m



Crane Installation Plan

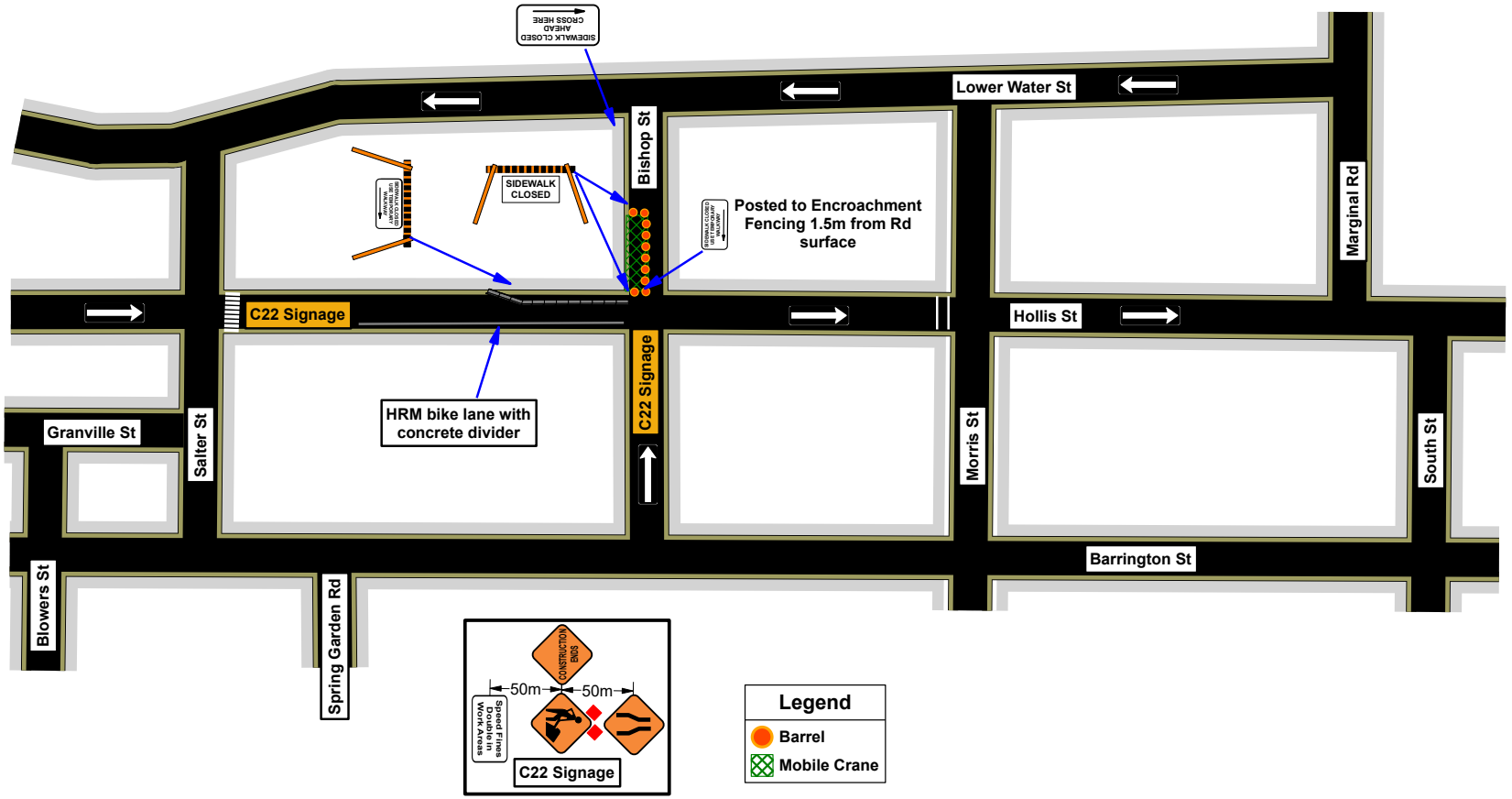
Date: 2020-11-16 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: Governor Plaza
Contractor: MARCO Contact: Zavin Graham, 902-877-4410

Comments:

Not to Scale
Application Guide C22
Pedestrian Management as shown

V	50			
A	50			
L	30			
B	*			
D	5			
T	50			

V - Speed Zone	km/h
A - Sign Spacing	m
L - Taper Length	m
B - Buffer Area Length	m
D - Cone/Drum Spacing	m
T - Length Between Tapers	m

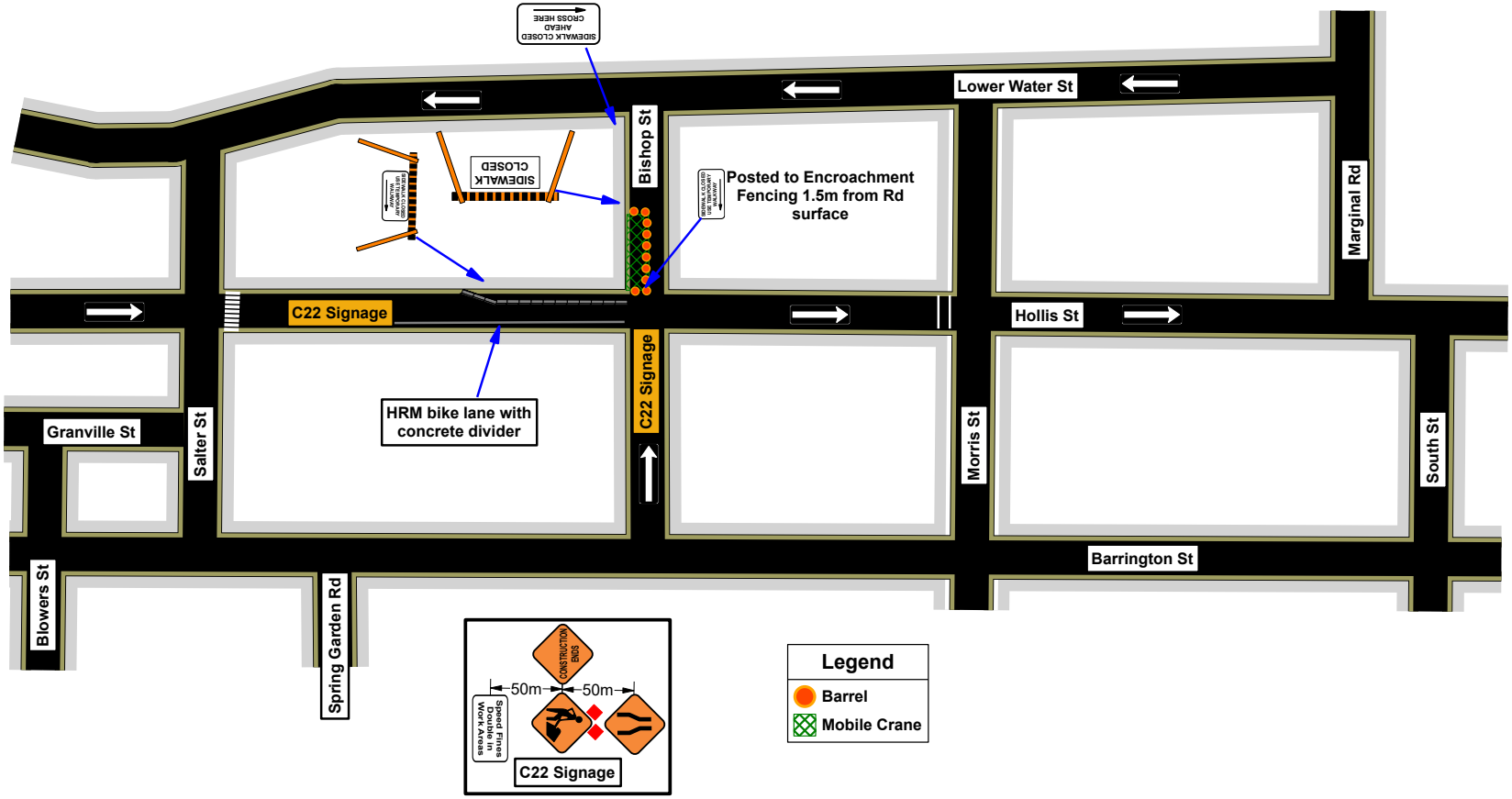


Crane Dismantling Plan

Date: 2020-11-16 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: Governor Plaza Contractor: MARCO Contact: Zavin Graham, 902-877-4410
Comments: **Not to Scale** **Application Guide C22** **Pedestrian Management as shown**

V	50			
A	50			
L	30			
B	*			
D	5			
T	50			

V - Speed Zone	km/h
A - Sign Spacing	m
L - Taper Length	m
B - Buffer Area Length	m
D - Cone/Drum Spacing	m
T - Length Between Tapers	m



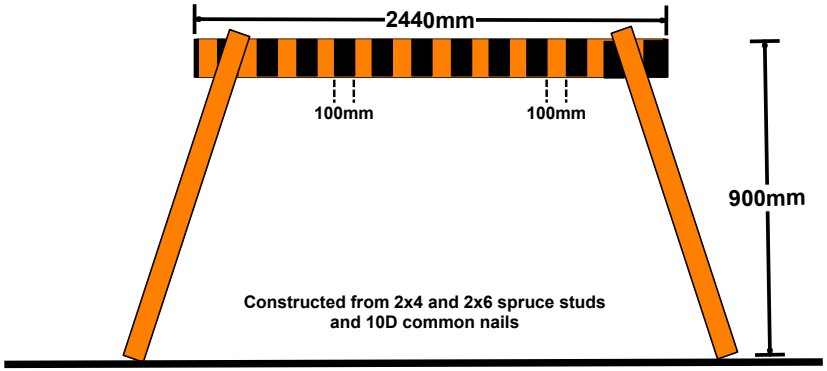
Appendix E – Site Signage Plan

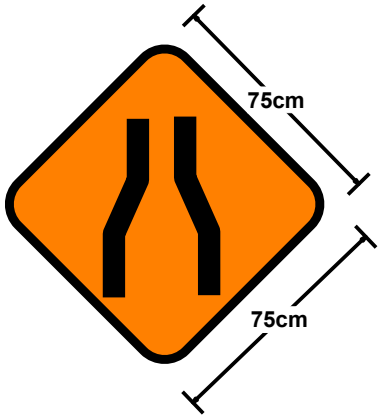
To be posted in office/trailer:		
☐	**“MARCO SAFETY BOARD”**	
Signage on gates as required:		
☐	**“CAUTION CONSTRUCTION AREA – DO NOT ENTER”**	
☐	**“MUSTER STATION”**	
☐	**“NO HIRING ON SITE”**	
☐	**“NO SMOKING”**	
☐	**“CONSTRUCTION SITE – SAFETY EQUIPMENT MUST BE WORN…”**	
☐	**“NOTICE – ALL VISITORS MUST REPORT TO SITE OFFICE”**	
☐	**Any/all other site-specific signage**	Canada’s Best Managed Company, COVID -19, etc.

MARCO

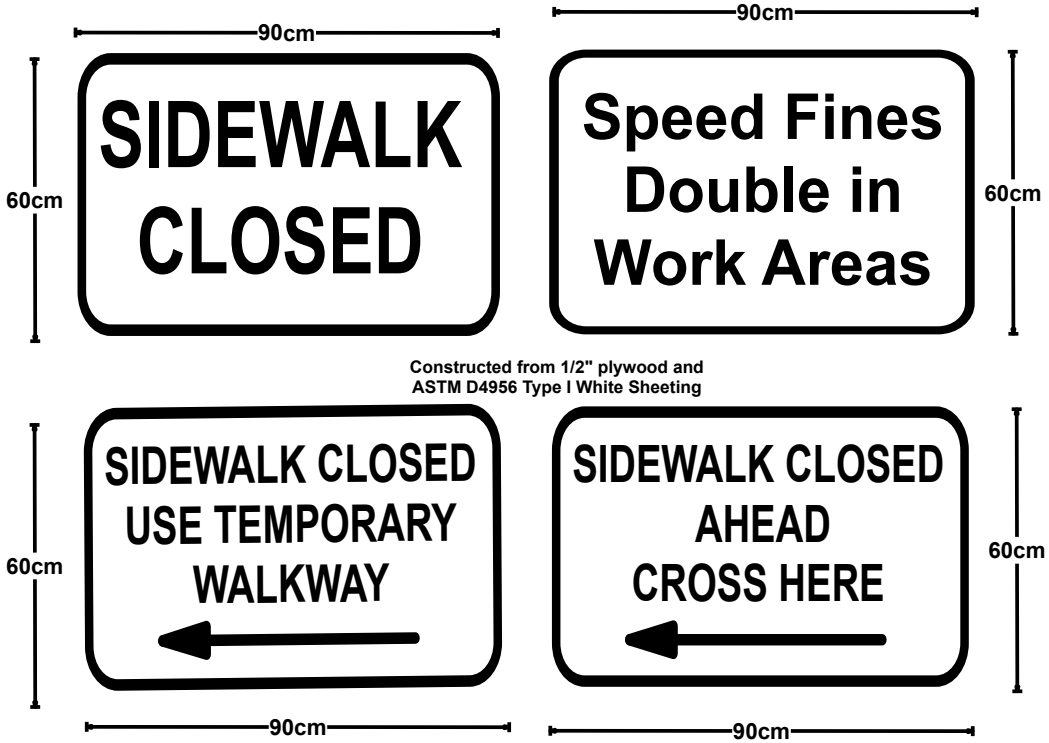
FIRE HYDRANT LOCATED HERE

Size and material composition of signs and devices

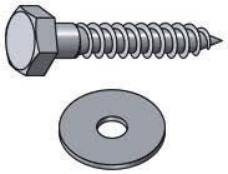




Typical Temporary Condition Signage
Constructed from 1/2" plywood and
ASTM D4956 Type III Orange Sheeting



Mounting Hardware is dependent on mounting location.



Typical for wooden posts are 1/2" x 4" galvanized lag screws with 1.5" washers.

Typical for metal and concrete poles are 1/2" x 24" stainless steel hose clamps

Typical for small 2.5" posts are 2'5" x 3.5" stainless steel U-bolts

Appendix F – Haul Route Plan

Haul Route Plan

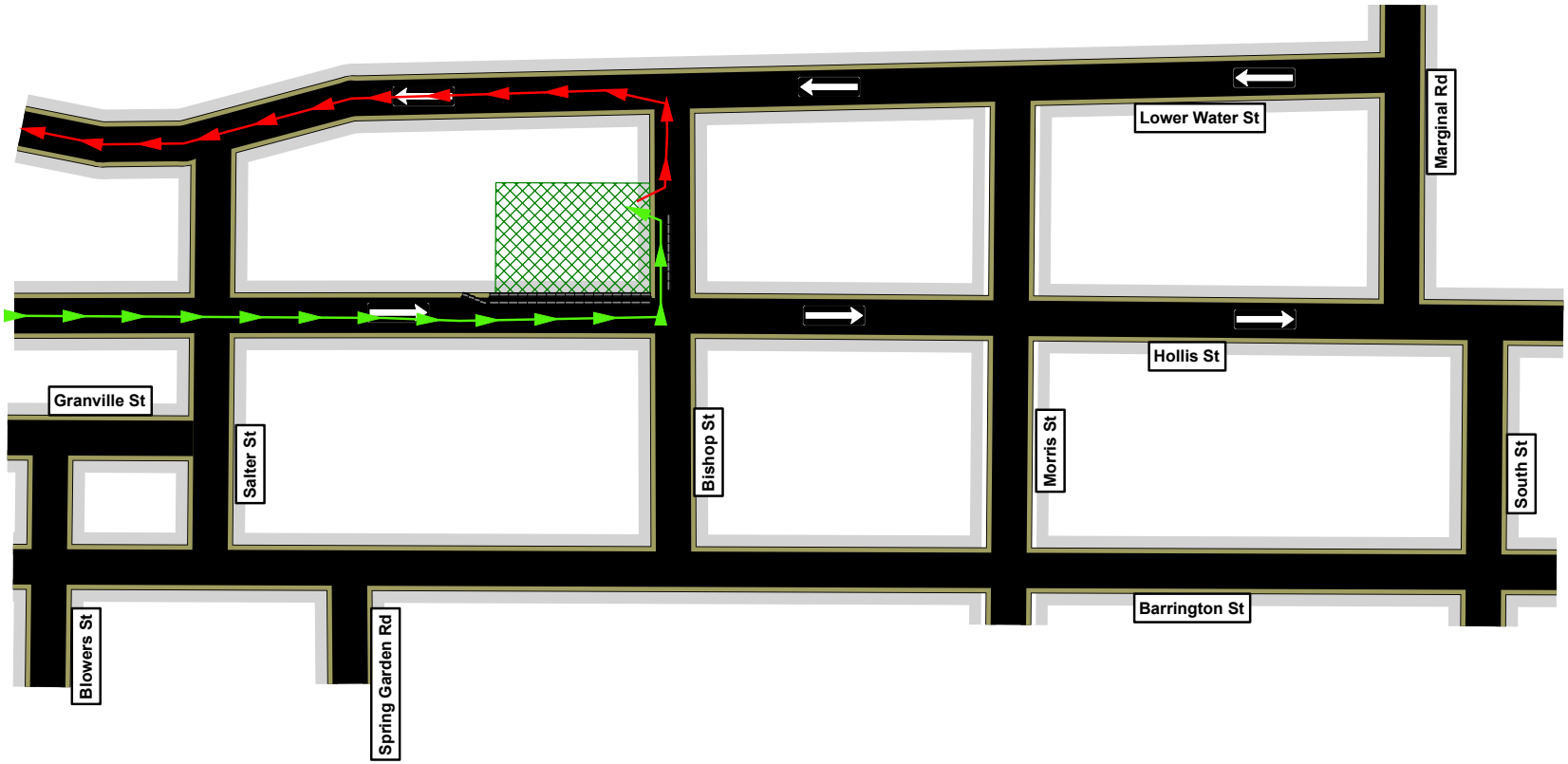
Date: 2020-11-16 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: Governor Plaza
Contractor: MARCO Contact: Zavin Graham, 902-877-4410

Comments:

Not to Scale
Haul Route Plan 1
Inbound via Hollis St to Bishop
Outbound via Bishop to Lower Water

Legend

- F-type Barrier
- Haul Route Inbound
- Haul Route Outbound
- Work Area



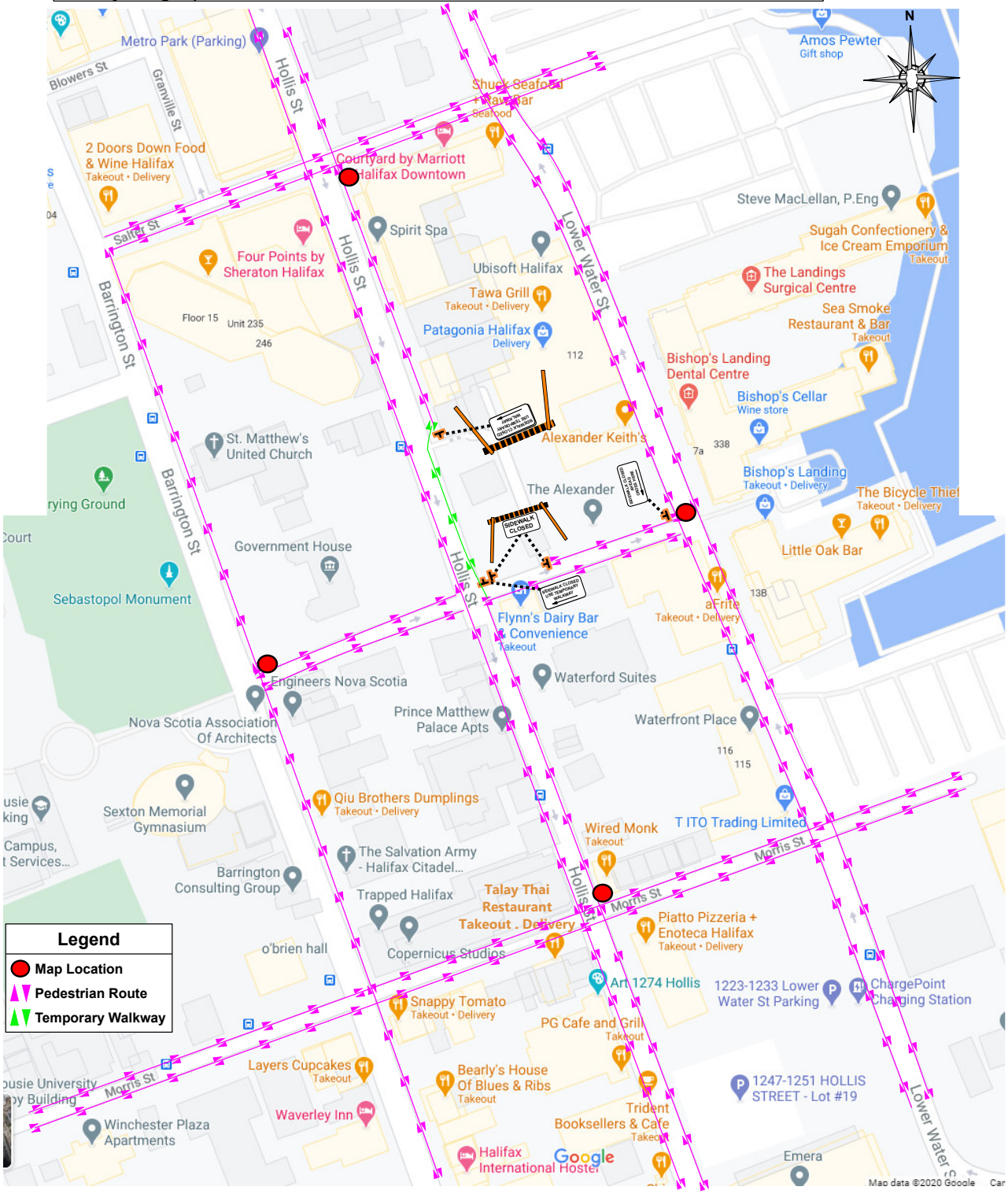
Appendix G – Pedestrian Management Plan

Pedestrian Management Plan

Date: 2020-12-04 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: Governor Plaza Contractor: MARCO Contact: Zavin Graham, 902-877-4410

Comments:

Not to Scale
Pedestrian Management Plan
Bishop St sidewalk closed
Use Temporary sidewalk signs on Hollis St to be mounted to Hoarding at corner of Bishop and Hollis and mounted to TC-64A barricade at other end
This way finding map to be located at the locations marked



Pedestrian Management Plan

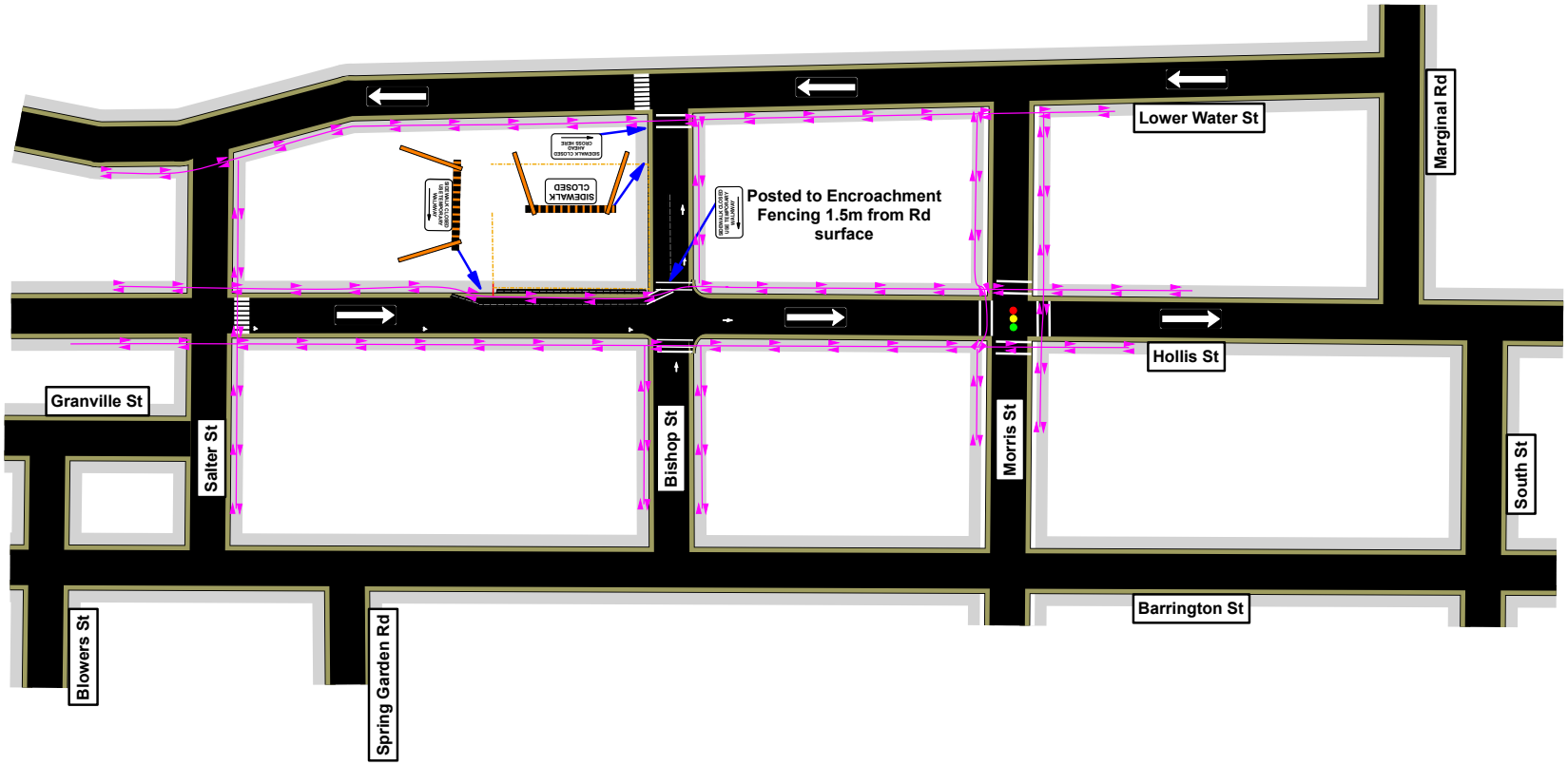
Date: 2020-11-16 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: Governor Plaza
Contractor: MARCO Contact: Zavin Graham, 902-877-4410

Comments:

Not to Scale
Pedestrian Management Plan
Bishop St sidewalk closed
Use Temporary sidewalk signs on Hollis St to be mounted to Hoarding at corner of Bishop and Hollis
and mounted to TC-64A barricade at other end

Legend

- F-type Barrier
- Pedestrian Route



Hollis St Closure Plan

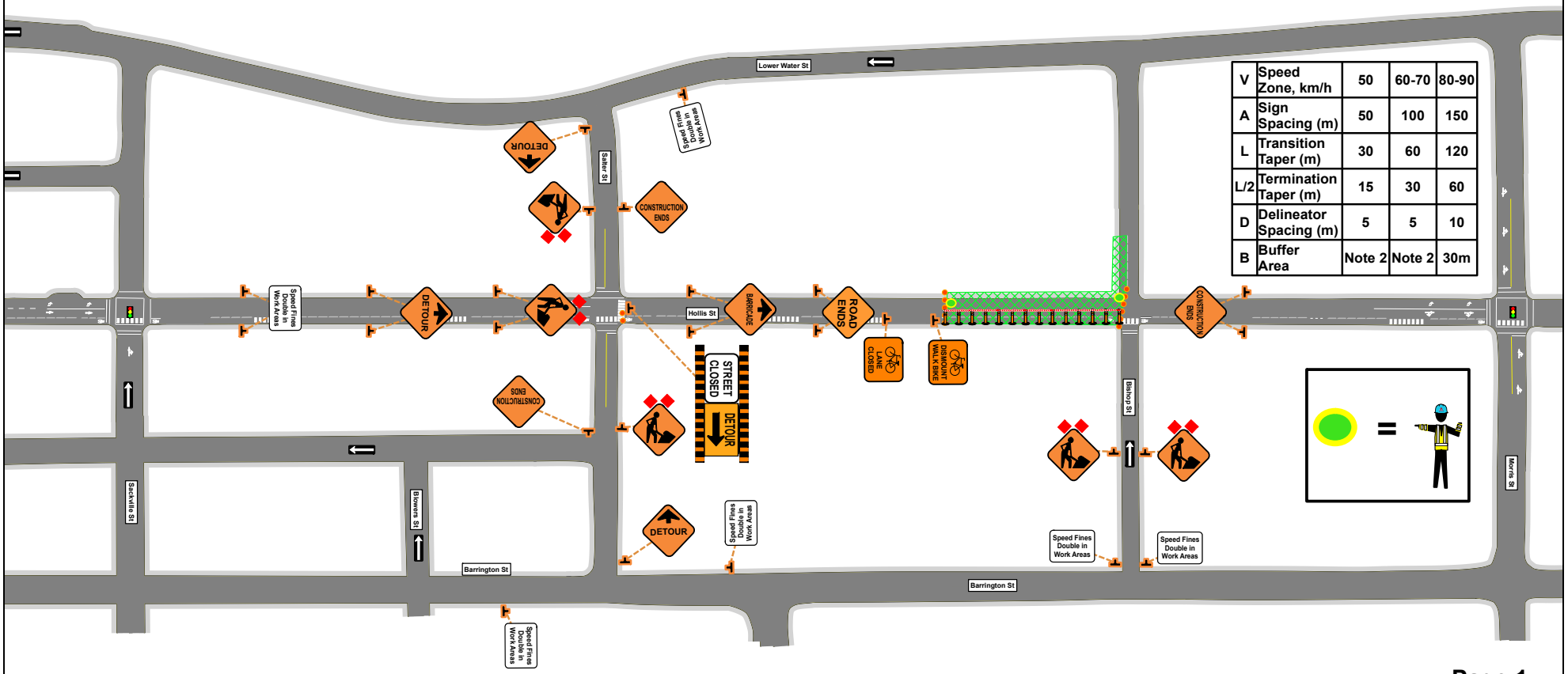
Date: 2020-12-14 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: The Governor
Contrator: ARCP Contact: Tim MacDonald, 902-329-1137

Comments:

Not to Scale
Application Guide C114, B80
Closure Plan for Service Lateral Installation/Decommissioning
Dates of work TBD
Duration of work est. 48-72hrs continuous
Bike lane closure. Cyclists to dismount and walk past work area on sidewalk.
See Page 2 for Custom Signage locations
See Pages 3 and 4 for VMB location and Messaging
Refer of Pedestrian Management Plan for sidewalk closure details.

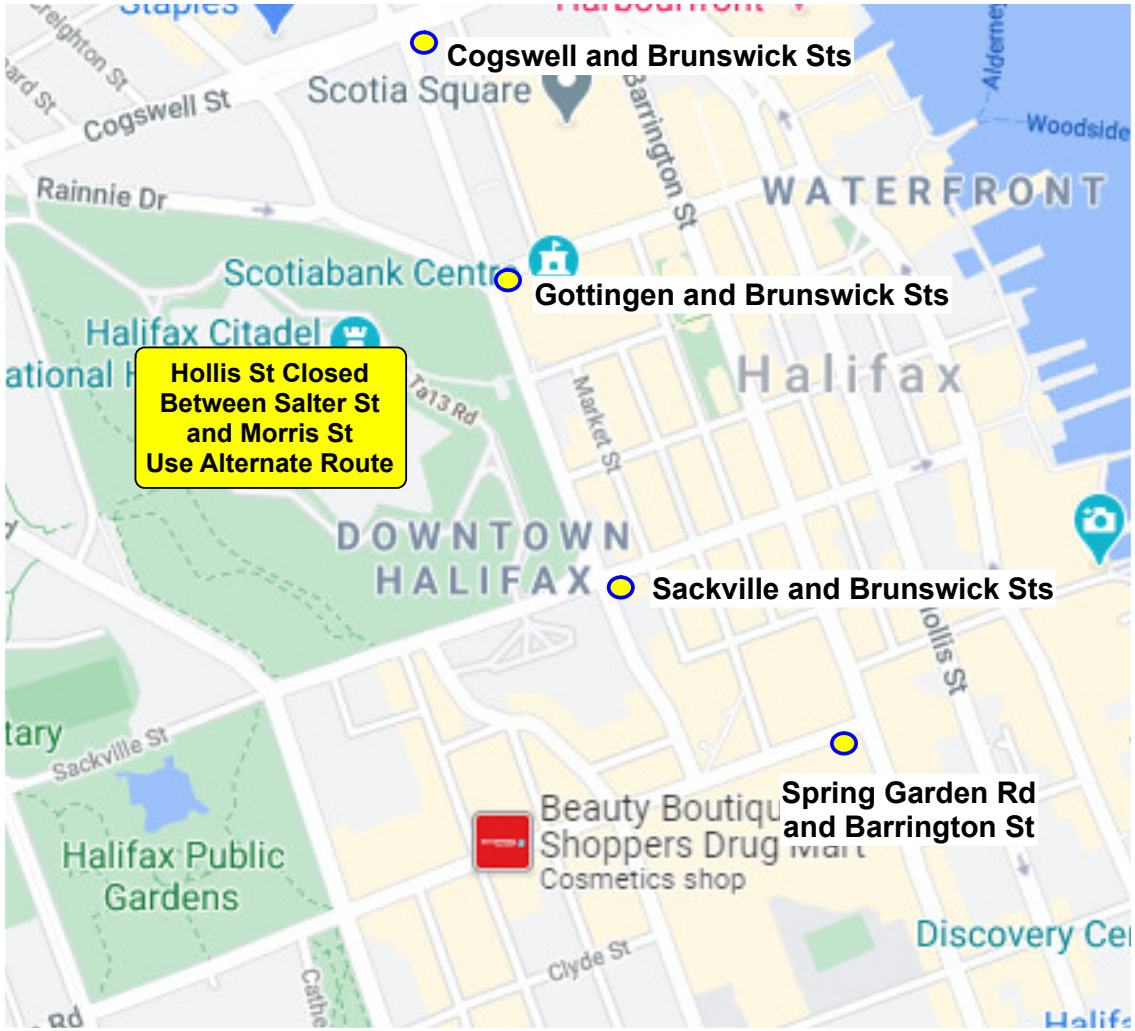
Legend

- Barrel
- Barricade Supervisor
- Barrier
- High Delineators with Caution Tape
- Work Area

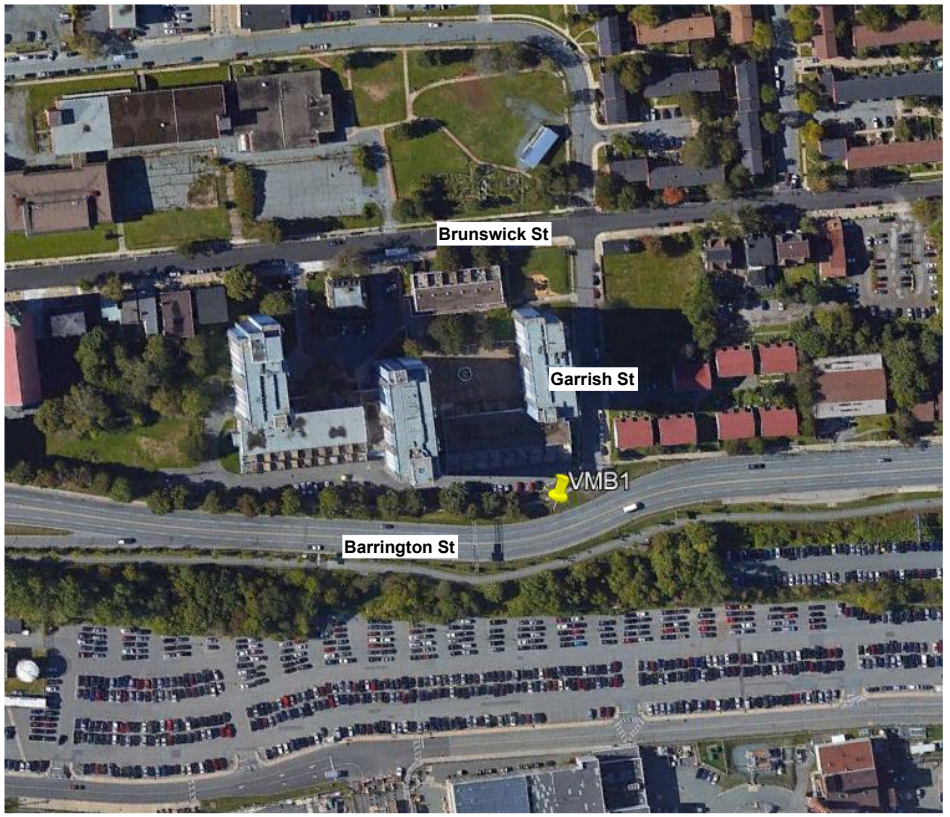


V	Speed Zone, km/h	50	60-70	80-90
A	Sign Spacing (m)	50	100	150
L	Transition Taper (m)	30	60	120
L/2	Termination Taper (m)	15	30	60
D	Delineator Spacing (m)	5	5	10
B	Buffer Area	Note 2	Note 2	30m

Custom Signage Placement Map



Hollis St Closure VMB1 Location



Hollis St Closed at Salter St

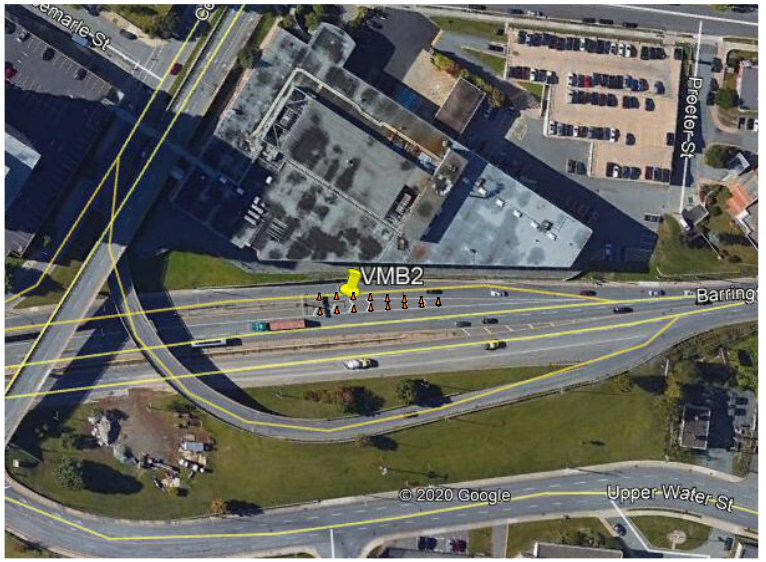
EG **Fri.Mar6 6pm to Mon Mar9 5am**

Trucks use Barrington St

Expect Long Delays

Hollis St Closure VMB2 Location

VMB 2 Here



Hollis St Closed at Salter St

EG **Fri.Mar6 6pm to Mon Mar9 5am**

Trucks use Barrington St

Expect Long Delays

Hollis St Pedestrian Management Plan

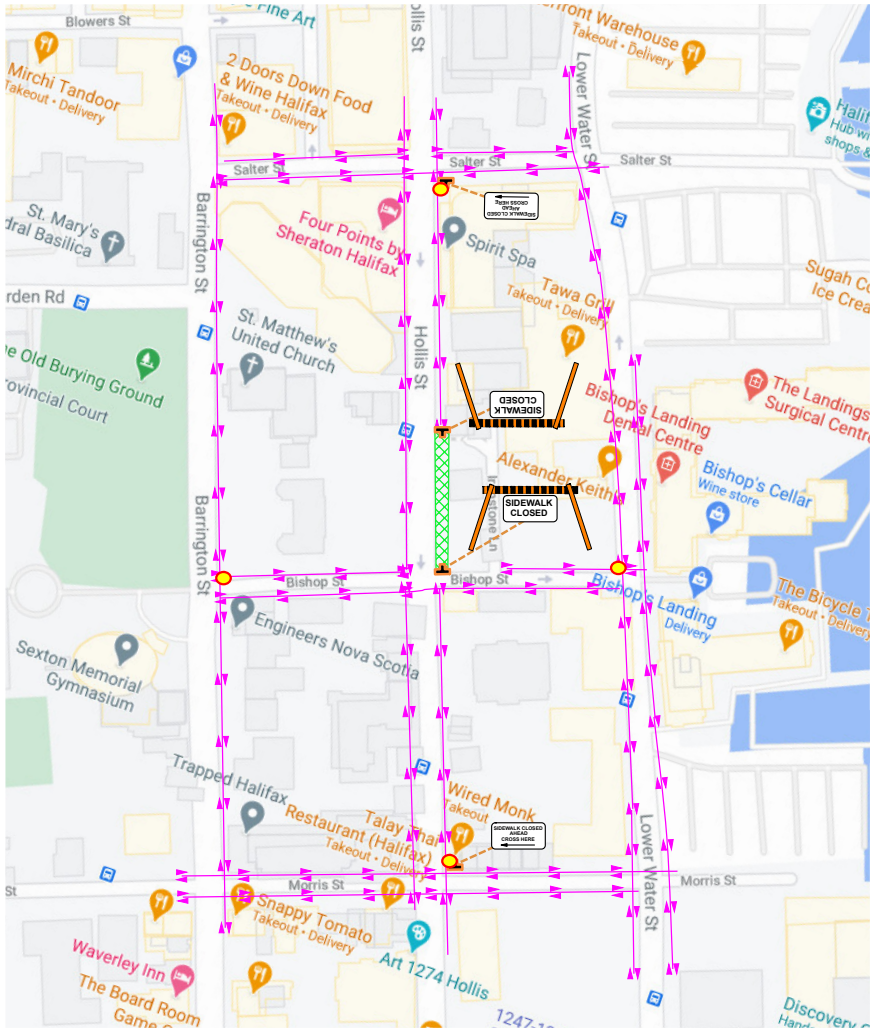
Date: 2020-12-14 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: The Governor Contrator: ARCP Contact: Tim MacDonald, 902-329-1137

Comments:

Not to Scale
Pedestrian Management Plan

Legend

- Affected Area
- Map Locations
- Pedestrian Route



Pedestrian Detour Wayfinding Plan

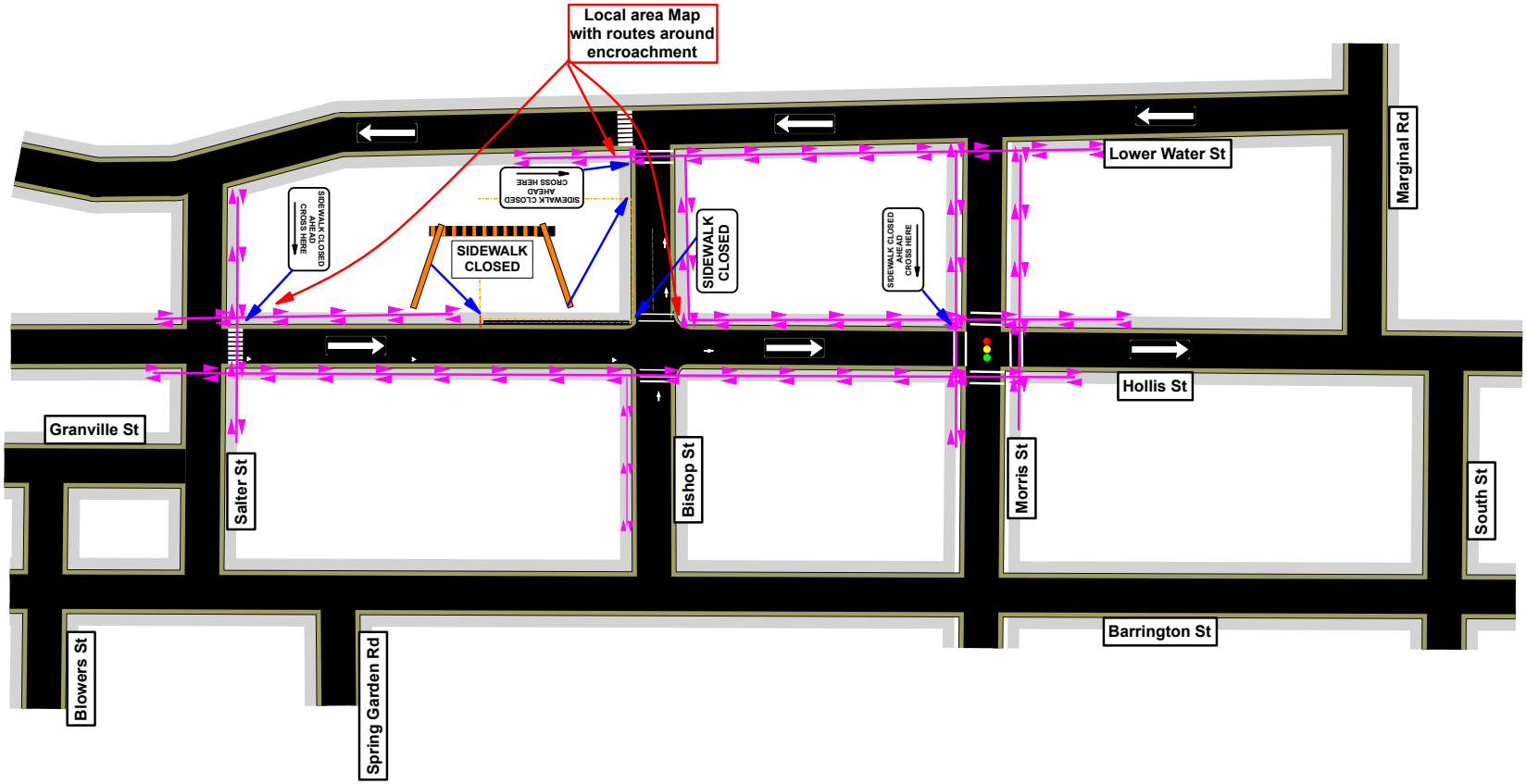
Date: 2020-11-16 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: Governor Plaza
Contractor: MARCO Contact: Zavin Graham, 902-877-4410

Comments:

Not to Scale
Pedestrian Management Plan
TC-145 with TC-64A on sidewalk in front of encroachment.
TC-145 to be mounted to Hoarding at corner of Bishop and Hollis

Legend

- F-type Barrier
- Pedestrian Route



1451 HOLLIS

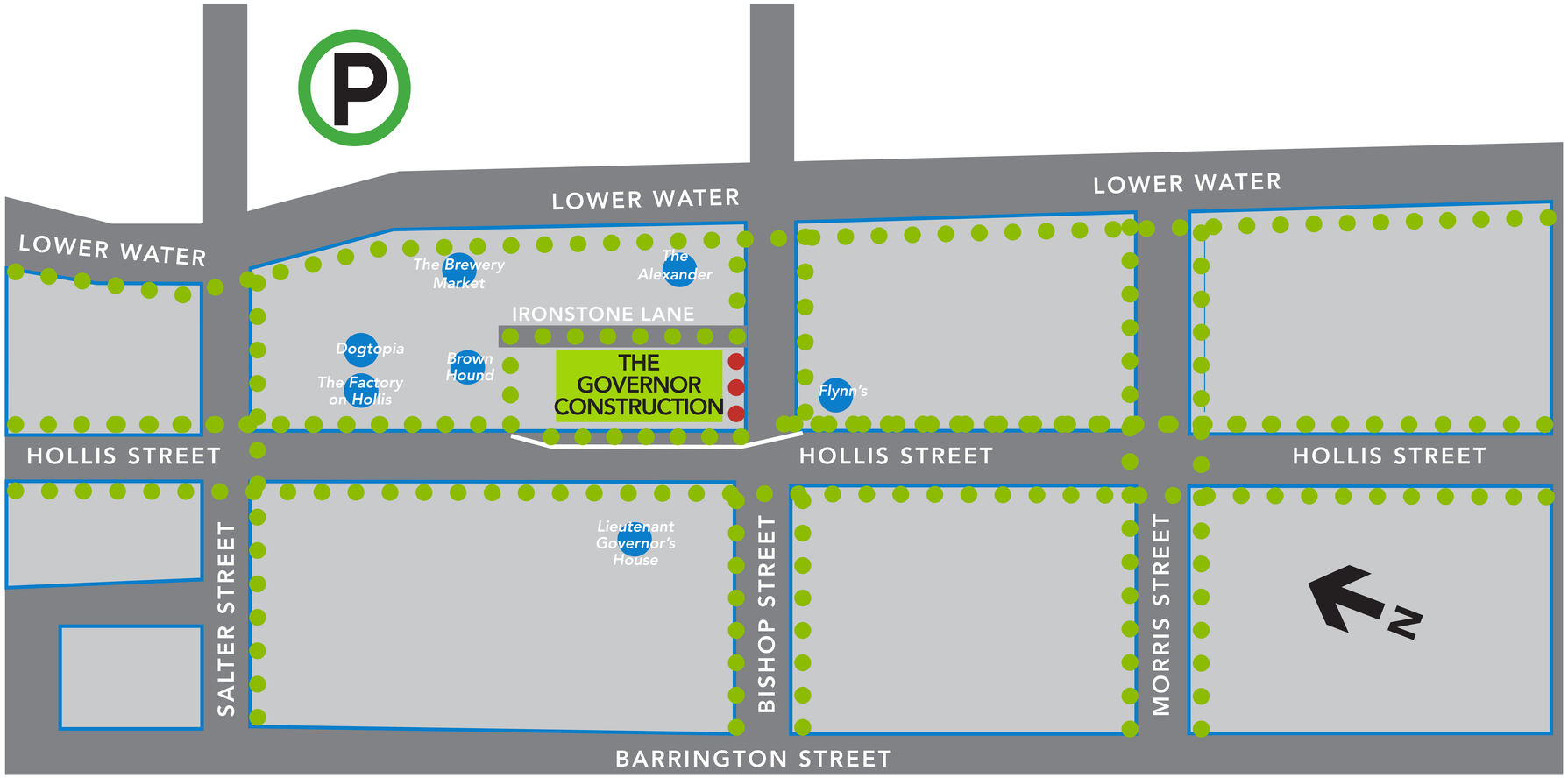
THE GOVERNOR

1451 Hollis Street, Halifax, NS

OPEN SIDEWALK

CLOSED SIDEWALK

Halifax Waterfront



Killam APARTMENT REIT

Emergency Contact/Site Superintendent: John Rhynold
jrhynold@marcogroup.ca 902-209-4399

1451 HOLLIS

THE GOVERNOR

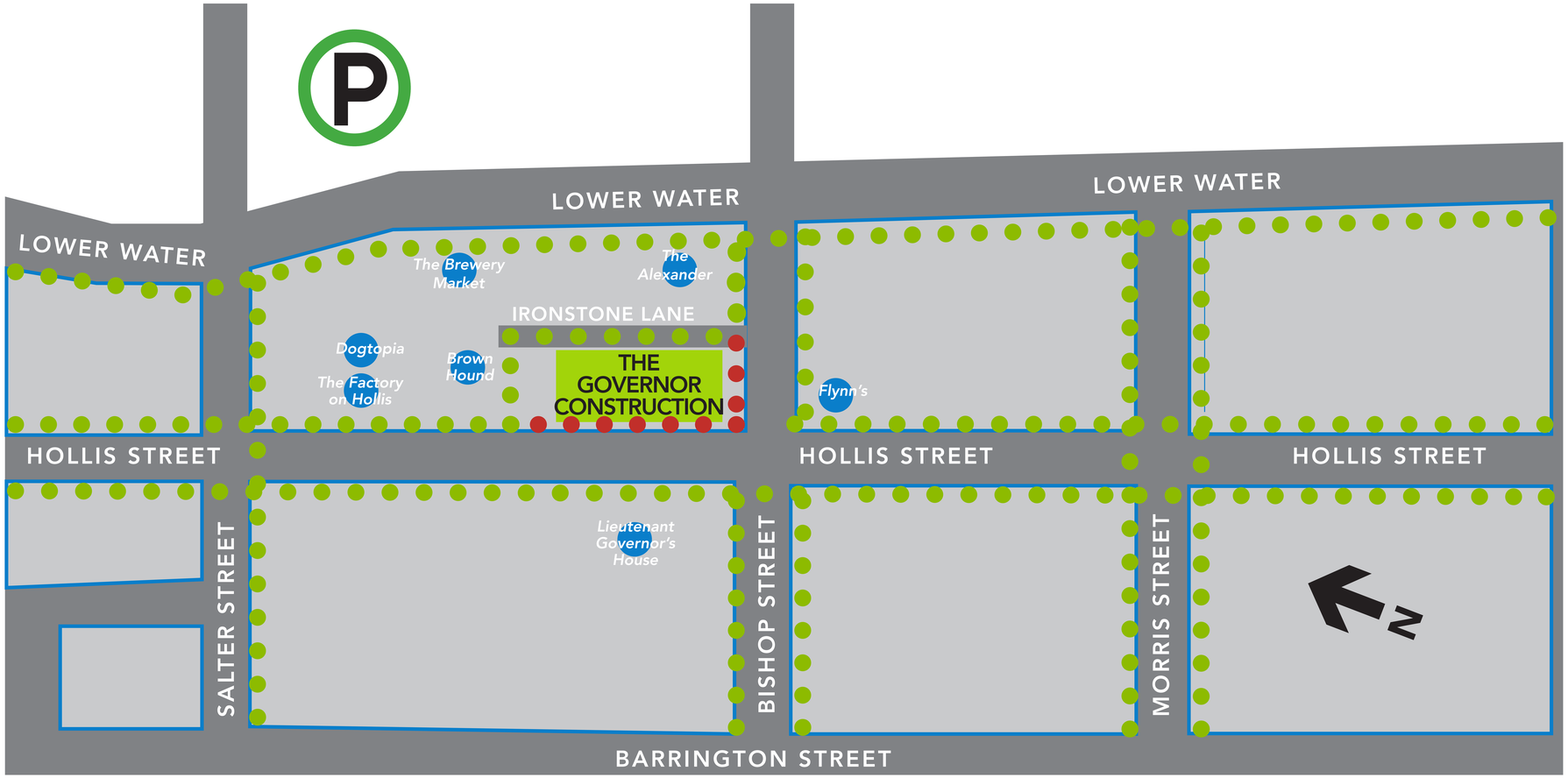
1451 Hollis Street, Halifax, NS

OPEN SIDEWALK

CLOSED SIDEWALK

Killam APARTMENT REIT

Halifax Waterfront



Emergency Contact/Site Superintendent: John Rhynold
jrhynold@marcogroup.ca 902-209-4399

THE GOVERNOR

1451 Hollis Street, Halifax, NS

Brewery Market
Factory on Hollis

Hermitage Restaurant
Liquid Gold
Cooper Branch Restaurant

Killam APARTMENT REIT

Emergency Contact/Site Superintendent: John Rhynold
jrhynold@marcogroup.ca 902-209-4399

THE GOVERNOR

1451 Hollis Street, Halifax, NS

Factory on Hollis
Brewery Market

Hermitage Restaurant
Liquid Gold
Cooper Branch Restaurant

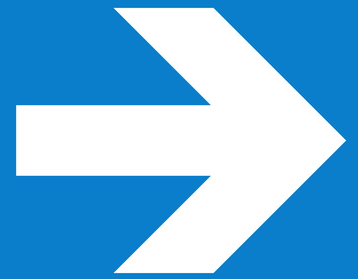
Killam APARTMENT REIT

Emergency Contact/Site Superintendent: John Rhynold
jrhynold@marcogroup.ca 902-209-4399

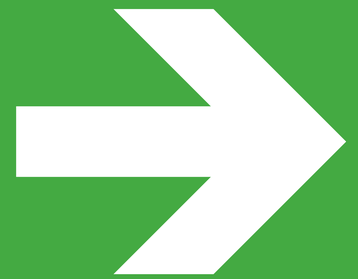
THE GOVERNOR

1451 Hollis Street, Halifax, NS

Dogtopia

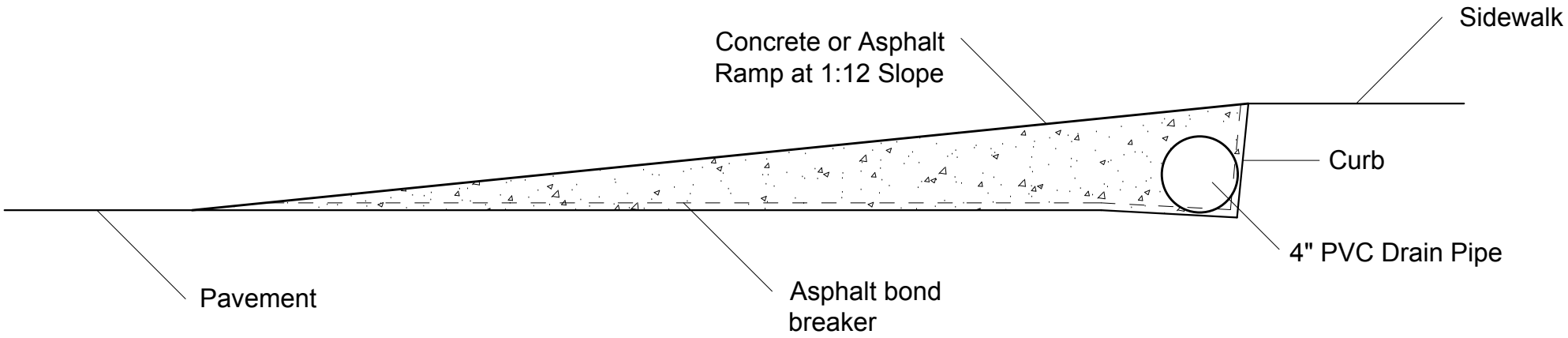


Brown Hound



Killam APARTMENT REIT

Emergency Contact/Site Superintendent: John Rhynold
jrhynold@marcogroup.ca 902-209-4399


Concrete or Asphalt
Ramp at 1:12 Slope
Sidewalk
Curb
4" PVC Drain Pipe
Pavement
Asphalt bond
breaker

5-Year Warranty

Proudly Made in the U.S.A.

ADA SOLUTIONS, INC.

DETECTABLE WARNING SURFACES FOR PEDESTRIAN CROSSINGS

Surface Mount Tactile

Service, Delivery and Price
Make ADA Solutions, Inc. the Obvious Choice

Surface Mount Tactile

In stock colors

White
37875

Brick Red
20109

Yellow
33538

Blue
15187

Safety Red
31350

Seattle Yellow
23594

Black
37038

Dark Gray
36081

Clay Red
22144

Surface Mount Composite Tactile

Installation Procedure

Be sure to read and understand <u>all</u> of these instructions <u>before</u> you begin.

A. The installation area should be cleaned of all debris, oil and grease, making sure the area is completely free of moisture. Tactile Panel may be surface mounted on existing pre-cleaned substrate.

B. Lay out the Tactile Panel on the substrate as it will appear when installed.
- If required, the Tactile Panel may be cut using a table saw and carbide tipped blade. See web site for more details.

C. Place a 3/8" bead of adhesive on the frame of the bottom of each Tactile Panel. Adhesive yield: 10SF per 10 ounce cartridge.

D. Set the Tactile Panel in the installation area. Make all necessary adjustments prior to fastening.

E. Fasteners shall be installed in pre-formed fastener locations. Holes shall be drilled using a hammer drill with 1/4" x 2" min SDS bits. The drilled holes must be a minimum of 2" deep. Place fasteners in hole and hammer into place.
- If additional fasteners are required, use a 1/2", six point, 82 degree countersink to add a new fastener location. Follow the same drilling method for installing the fastener.

F. Caulk around perimeter of entire installation using BASF NP1 or equivalent.
- All concrete dust present on the Tactile Panel resulting from the drilling process must be cleaned off of the Tactile Panel prior to using any caulking materials.

***Not recommended or warrantied for asphalt installation.**

PRODUCT SIZES
2′x3′ 2′x4′ 2′x5′
3′x4′ 3′x5′

APPLICATION
Existing Concrete Ramps

View additional photos, drawings and specifications on our website: www.adatile.com. Call (800) 372-0519 with any questions.

Surface Mount Composite Tactile

Inline Dome Pattern

DOME GEOMETRY

In accordance with ADA Regulations for Detectable Warning on Curb Ramps: Raised truncated domes with a diameter of nominal 0.9", a height of nominal 0.2", and a center-to-center spacing of nominal 1.67" minimum and 2.35" maximum.

PANEL DIMENSIONS

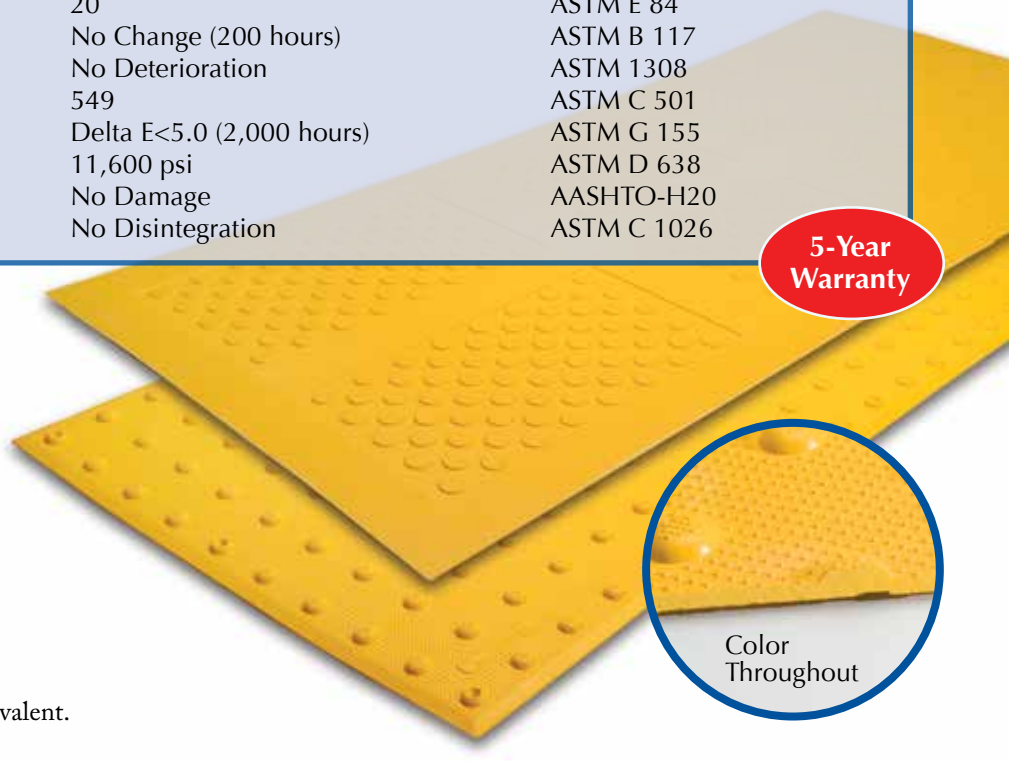
Tactile Panels are available in 24"x36", 24"x48", 24"x60", 36"x48" and 36"x60" sizes and measure 3/16" thick. Panels can be custom cut to fit field conditions. All four edges of each panel have a ½" beveled edge. Each panel has 12 to 24 pre-formed fastener locations based upon panel size.

MATERIAL

A durable exterior grade homogenous glass, carbon, and fiberglass reinforced composite material which is colorfast and UV stable. The color of the Tactile Unit is uniform throughout and does not rely on any type of paint coating to achieve color stability. Standard colors include: Federal Yellow, Seattle Yellow, White, Brick Red, Clay Red, Safety Red, Blue, Dark Gray and Black. For superior wheelchair, walker and shopping cart mobility, truncated domes have a center-to-center (horizontally and vertically) spacing of 2.35 inches.

PHYSICAL CHARACTERISTICS

Compressive Strength	28,900 psi	ASTM D 695
Flexural Strength	29,300 psi	ASTM D 790
Water Absorption	.07%	ASTM D 570
Slip Resistance	1.18 Dry, 1.05 Wet	ASTM C 1028
Flame Spread Index	20	ASTM E 84
Salt Spray	No Change (200 hours)	ASTM B 117
Chemical Stain Testing	No Deterioration	ASTM 1308
Abrasion Resistance	549	ASTM C 501
Accelerated Weathering	Delta E<5.0 (2,000 hours)	ASTM G 155
Tensile Strength	11,600 psi	ASTM D 638
Load Bearing at 16,000 lbs.	No Damage	AASHTO-H20
Freeze/Thaw/Heat	No Disintegration	ASTM C 1026



INSTALLATION

ADA Surface Applied TWS Panel (Existing Concrete): TWS panel can be easily installed (adhered, fastened & sealed) in a matter of minutes.

INCIDENTALS

Fasteners: ¼" x 1⅝", composite sleeve anchor with stainless steel pins.

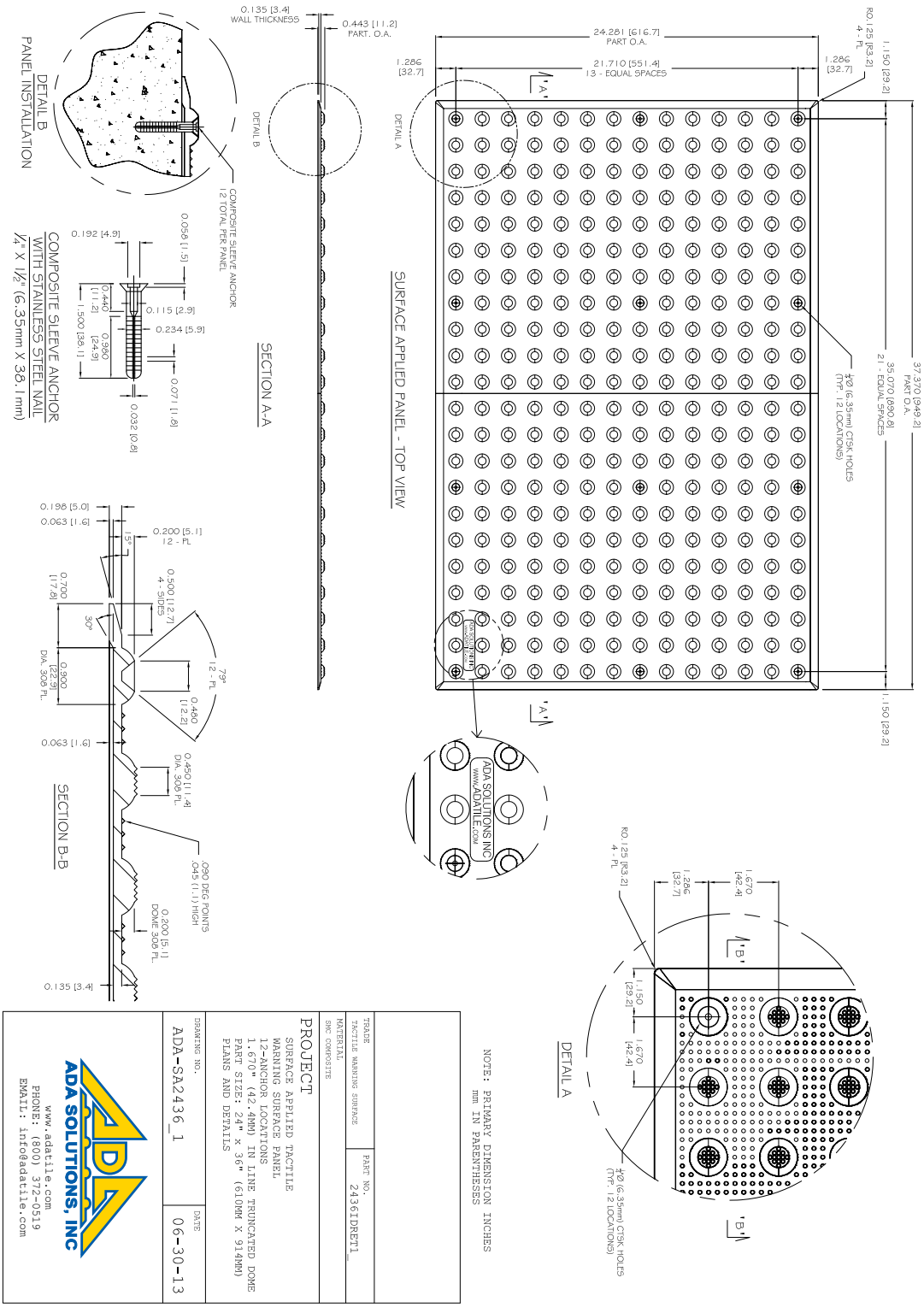
Adhesive: One component structural elastomeric adhesive.

Sealant: BASF NP1, Sikaflex 1A, or equivalent.

Surface Mount Composite Tactile

24″ x 36″ (610 x 914mm) Tile

1.67″ (42.4 mm) Dome Spacing



NOTE: PRIMARY DIMENSION INCHES
mm IN PARENTHESES

TRADE	
TACTILE WARNING SURFACE	PART NO. 2436IDRETI_
MATERIAL	
SMC COMPOSITE	

PROJECT

SURFACE APPLIED TACTILE
WARNING SURFACE PANEL
12-ANCHOR LOCATIONS
1.670" (42.4MM) IN LINE TRUNCATED DOME
PART SIZE: 24" x 36" (610MM X 914MM)
PLANS AND DETAILS

DRAWING NO. ADA-SA2436_1

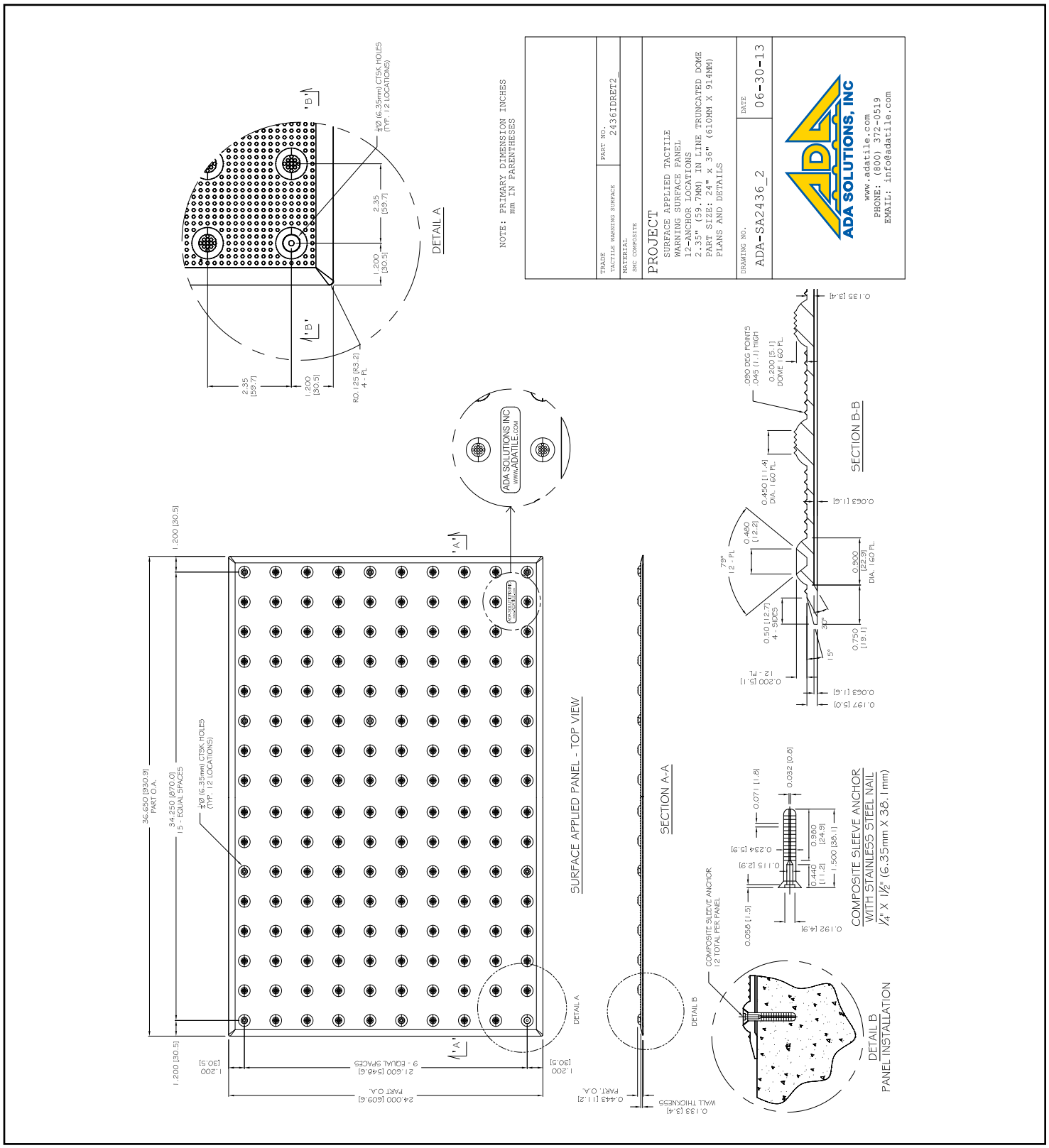
DATE 06-30-13

ADA SOLUTIONS, INC
www.adatile.com
PHONE: (800) 372-0519
EMAIL: info@adatile.com

Surface Mount Composite Tactile

24″ x 36″ (610 x 914mm) Tile

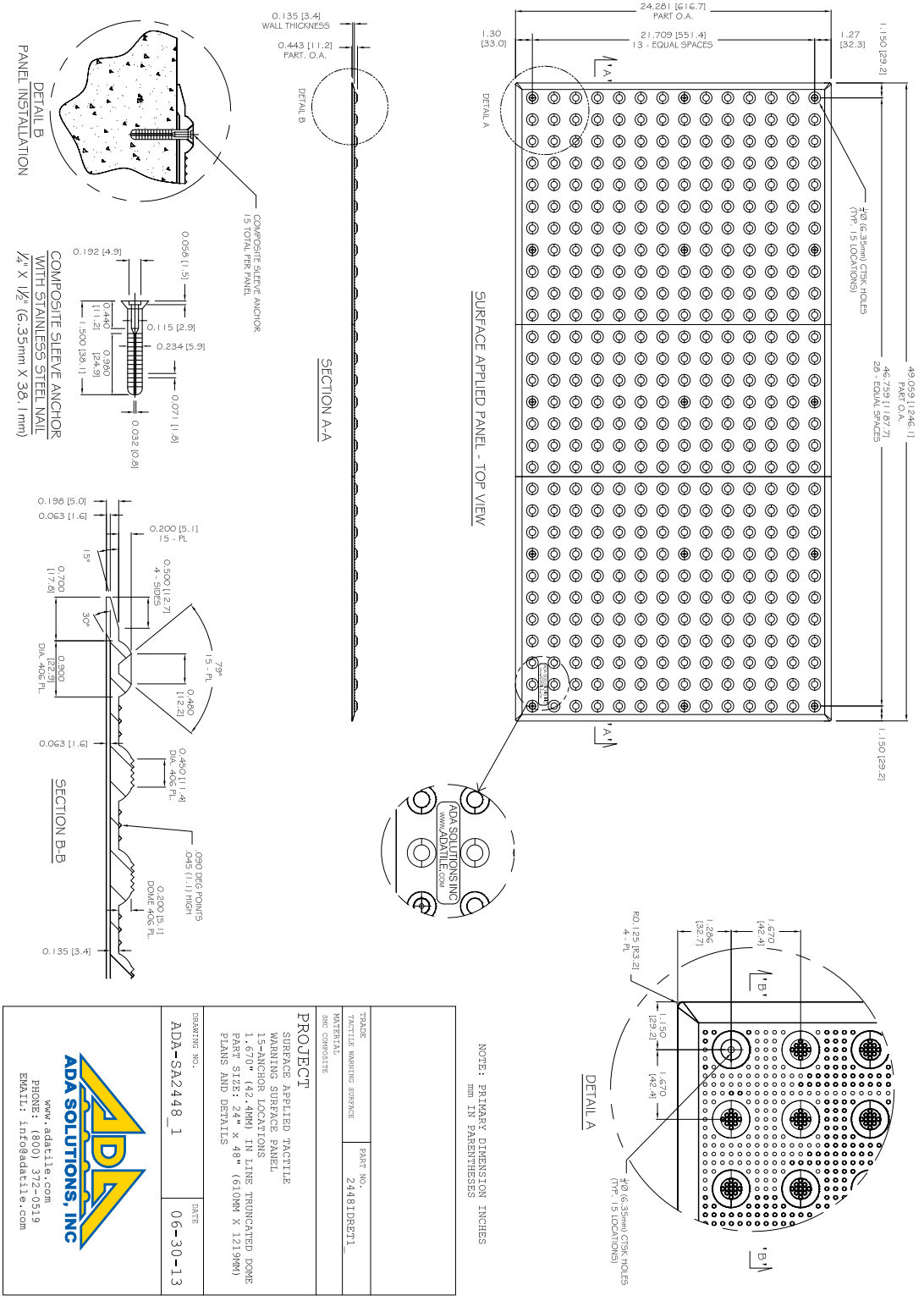
2.35″ (59.7 mm) Dome Spacing



Surface Mount Composite Tactile

24″ x 48″ (610 x 1219mm) Tile

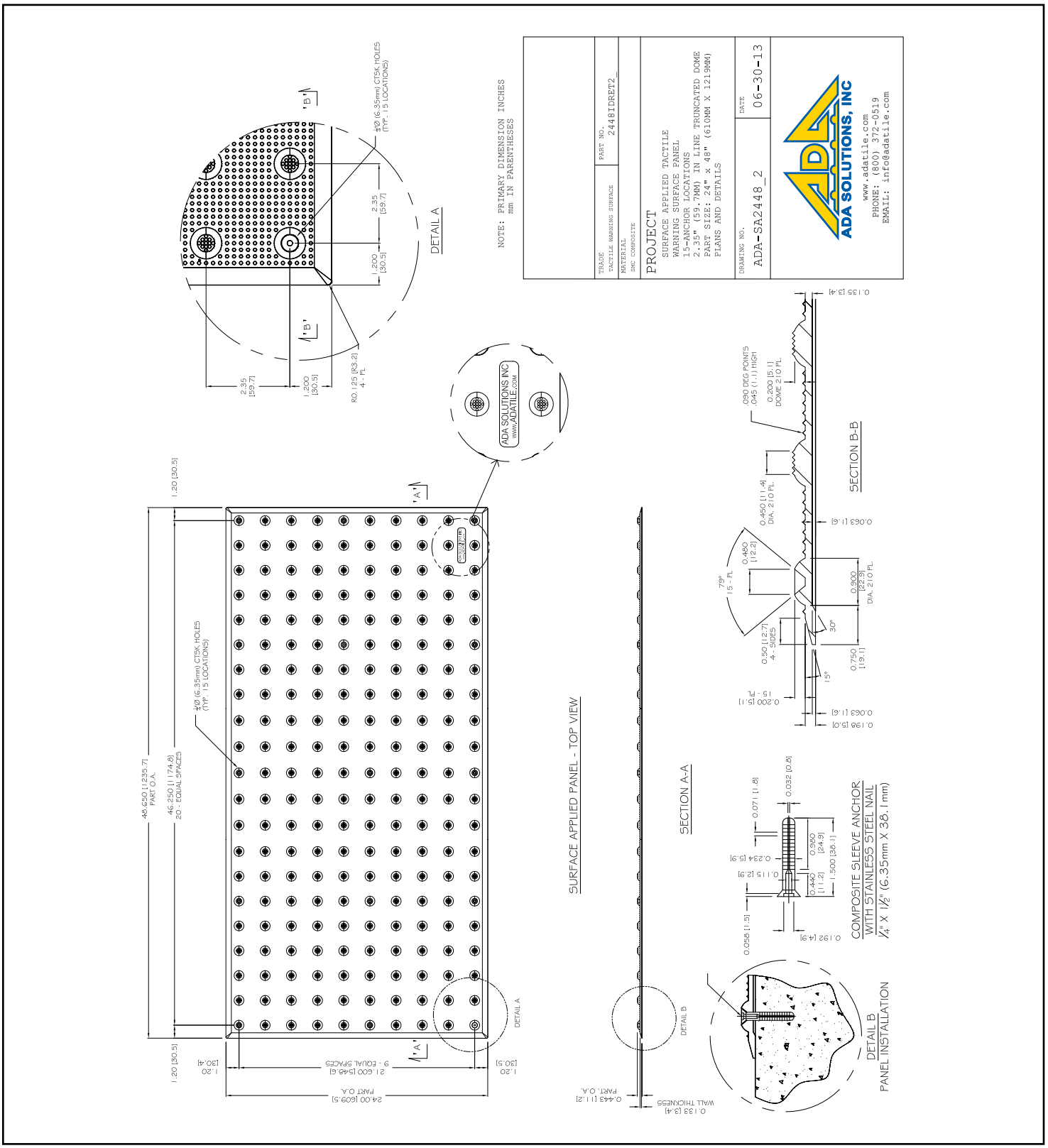
1.67″ (42.4 mm) Dome Spacing



Surface Mount Composite Tactile

24″ x 48″ (610 x 1219mm) Tile

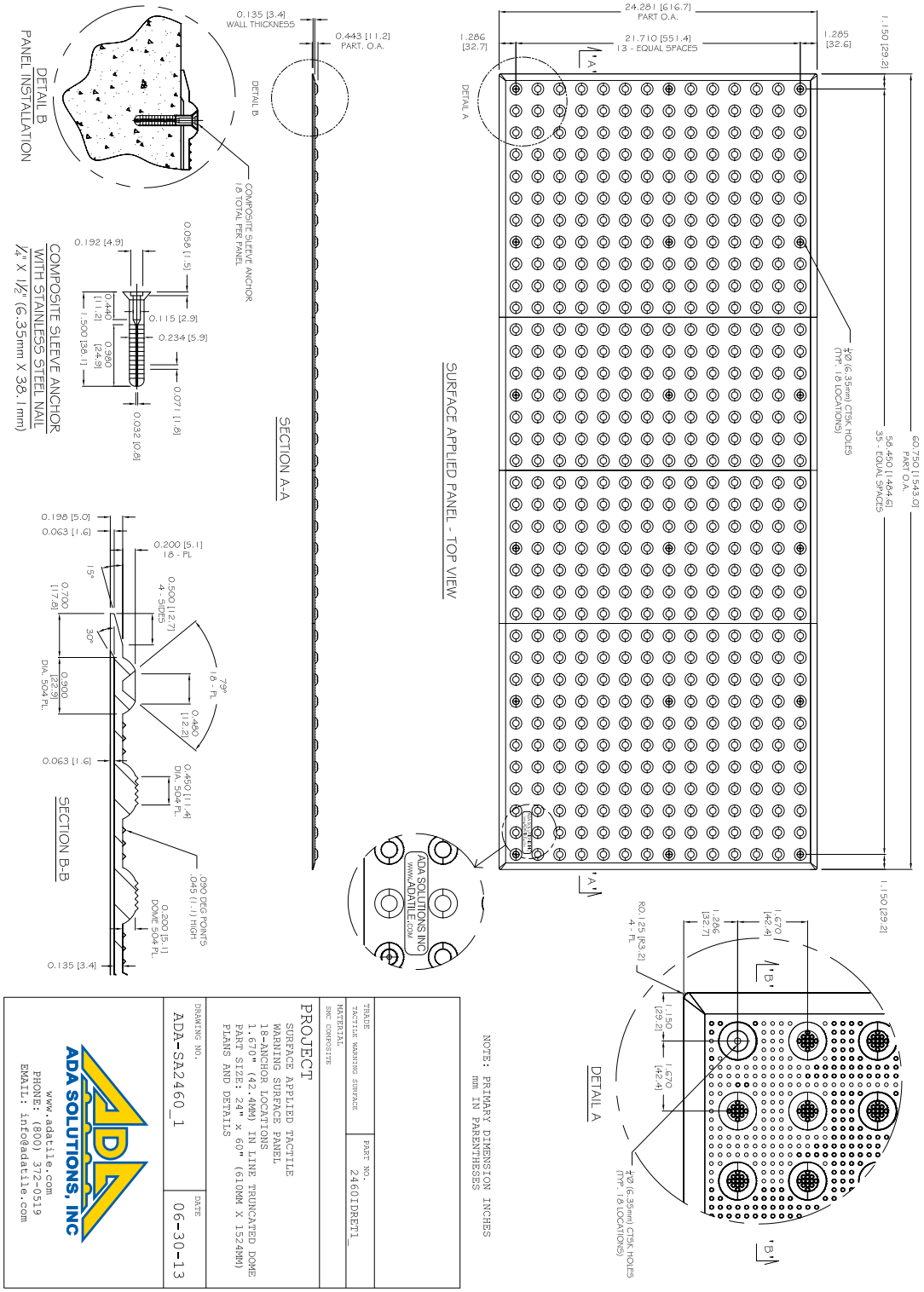
2.35″ (59.7 mm) Dome Spacing



Surface Mount Composite Tactile

24″ x 60″ (610 x 1524mm) Tile

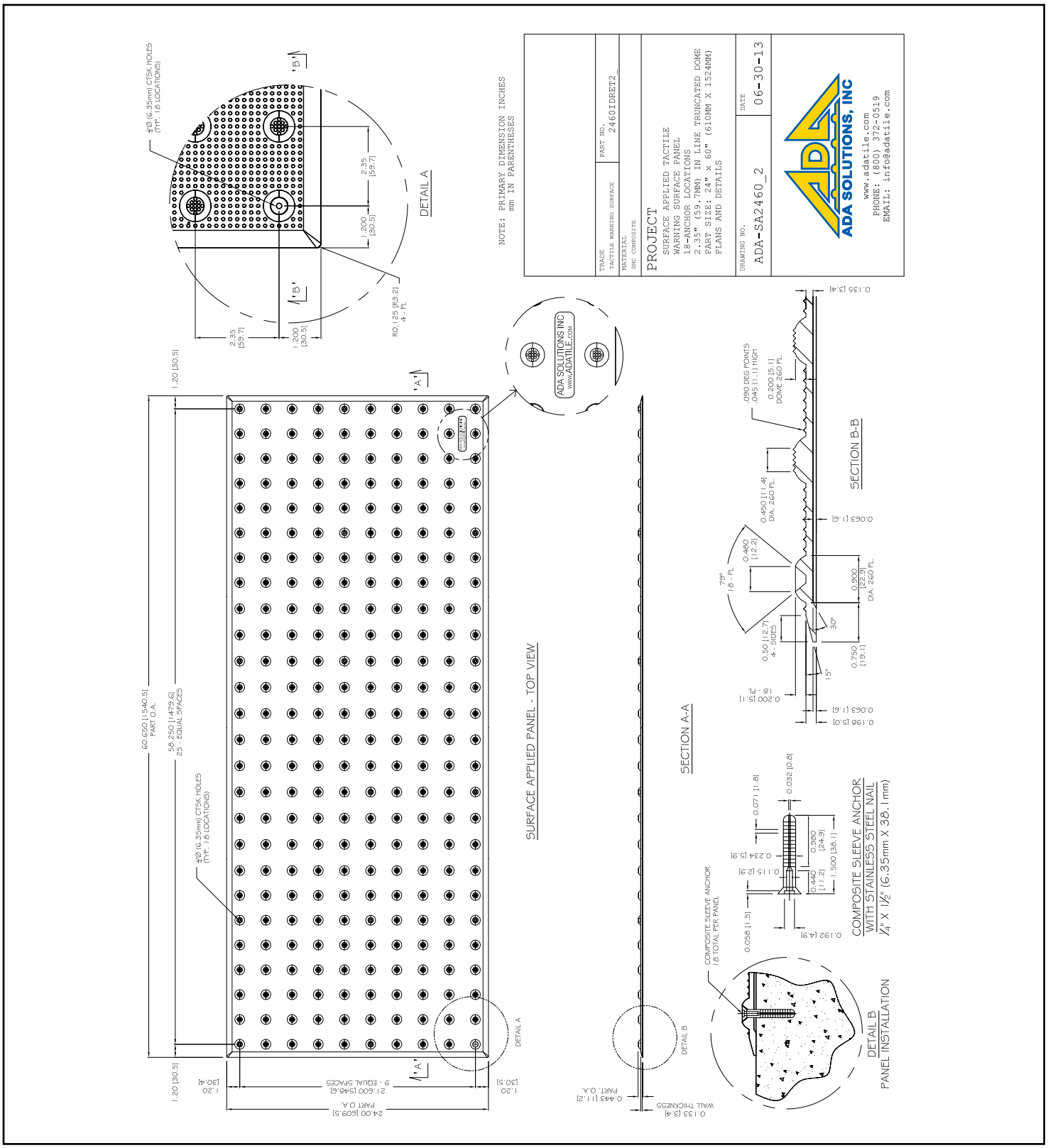
1.67″ (42.4 mm) Dome Spacing



Surface Mount Composite Tactile

24″ x 60″ (610 x 1524mm) Tile

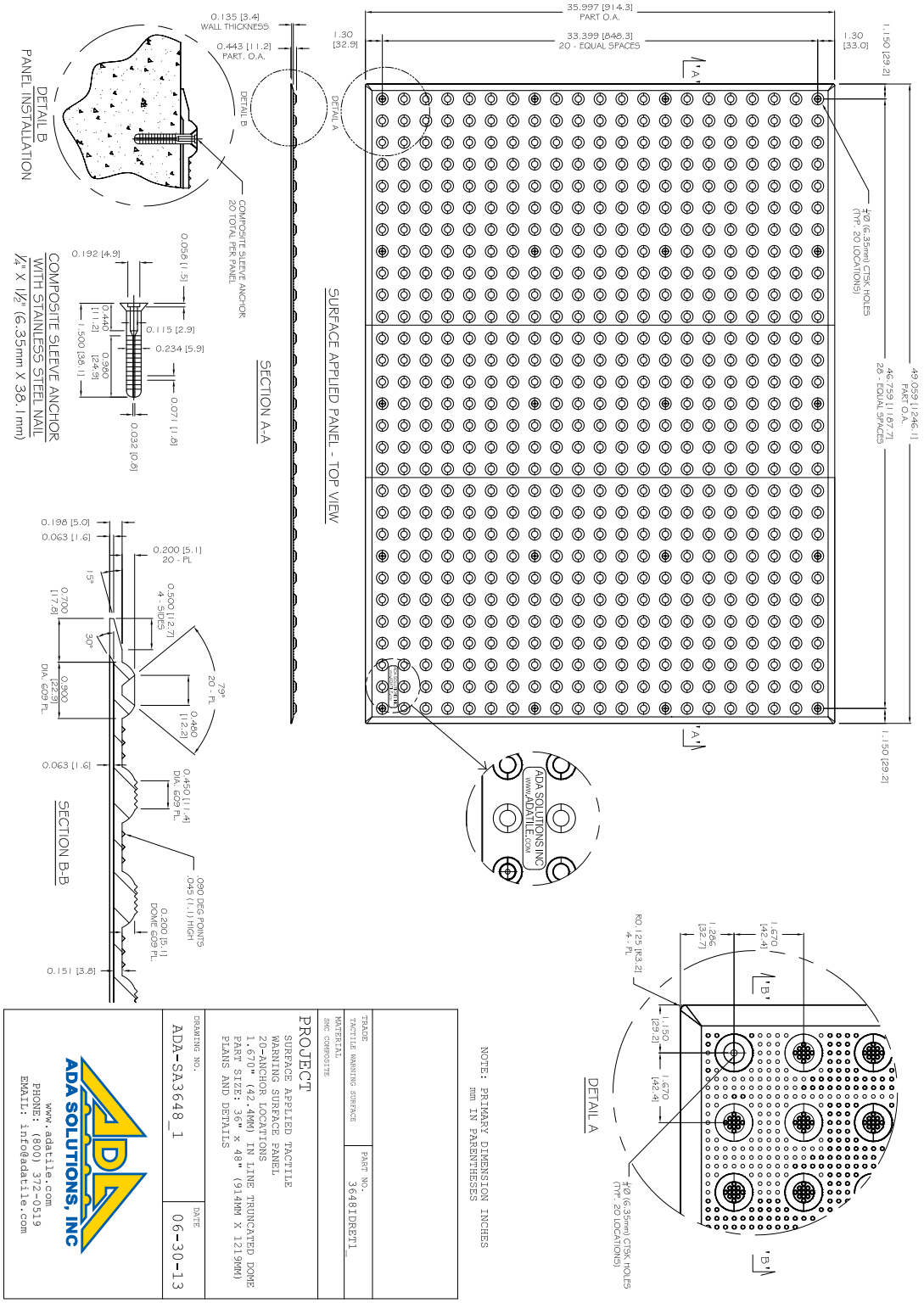
2.35″ (59.7 mm) Dome Spacing



Surface Mount Composite Tactile

36″ x 48″ (914 x 1219mm) Tile

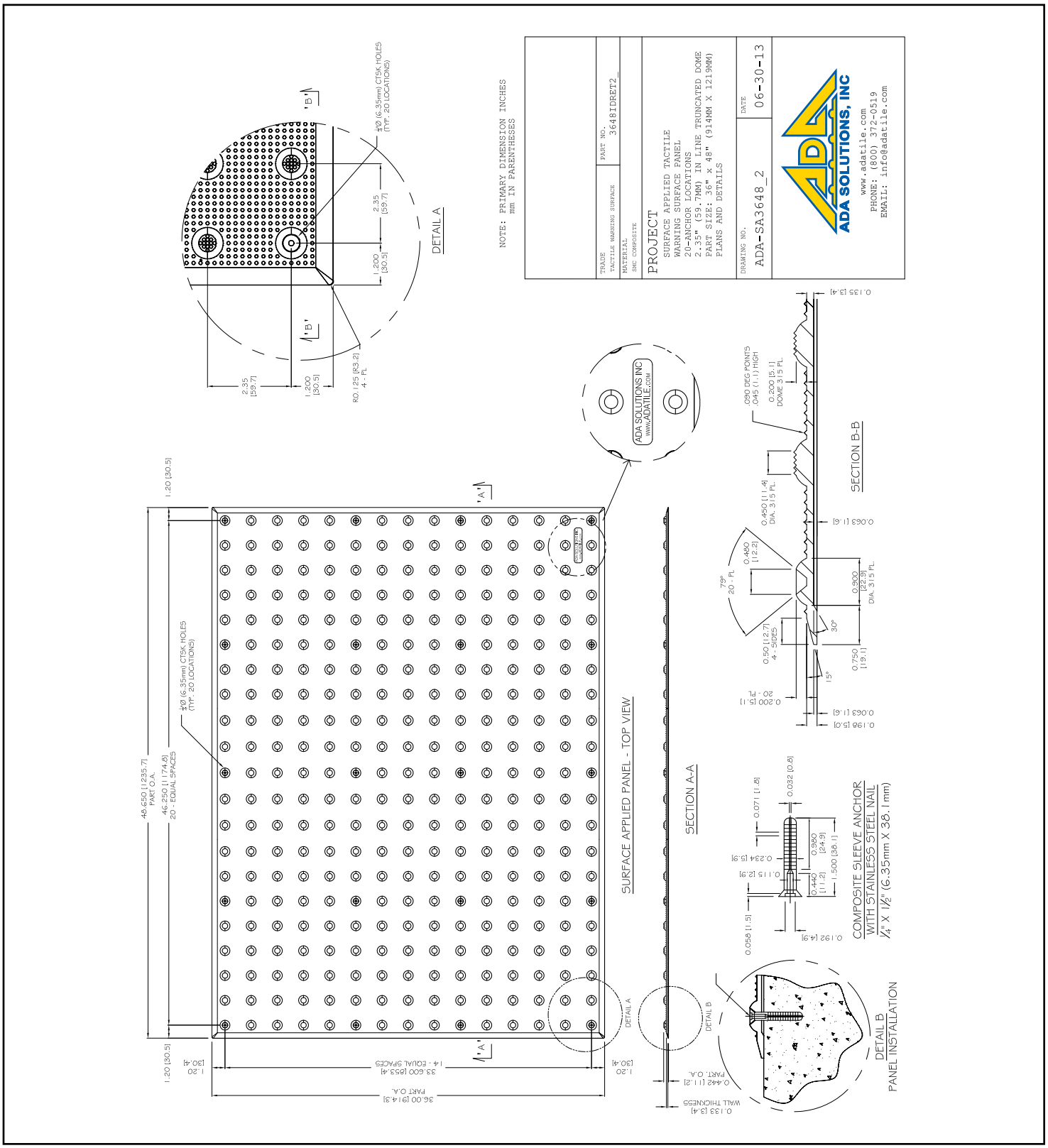
1.67″ (42.4 mm) Dome Spacing



Surface Mount Composite Tactile

36″ x 48″ (914 x 1219mm) Tile

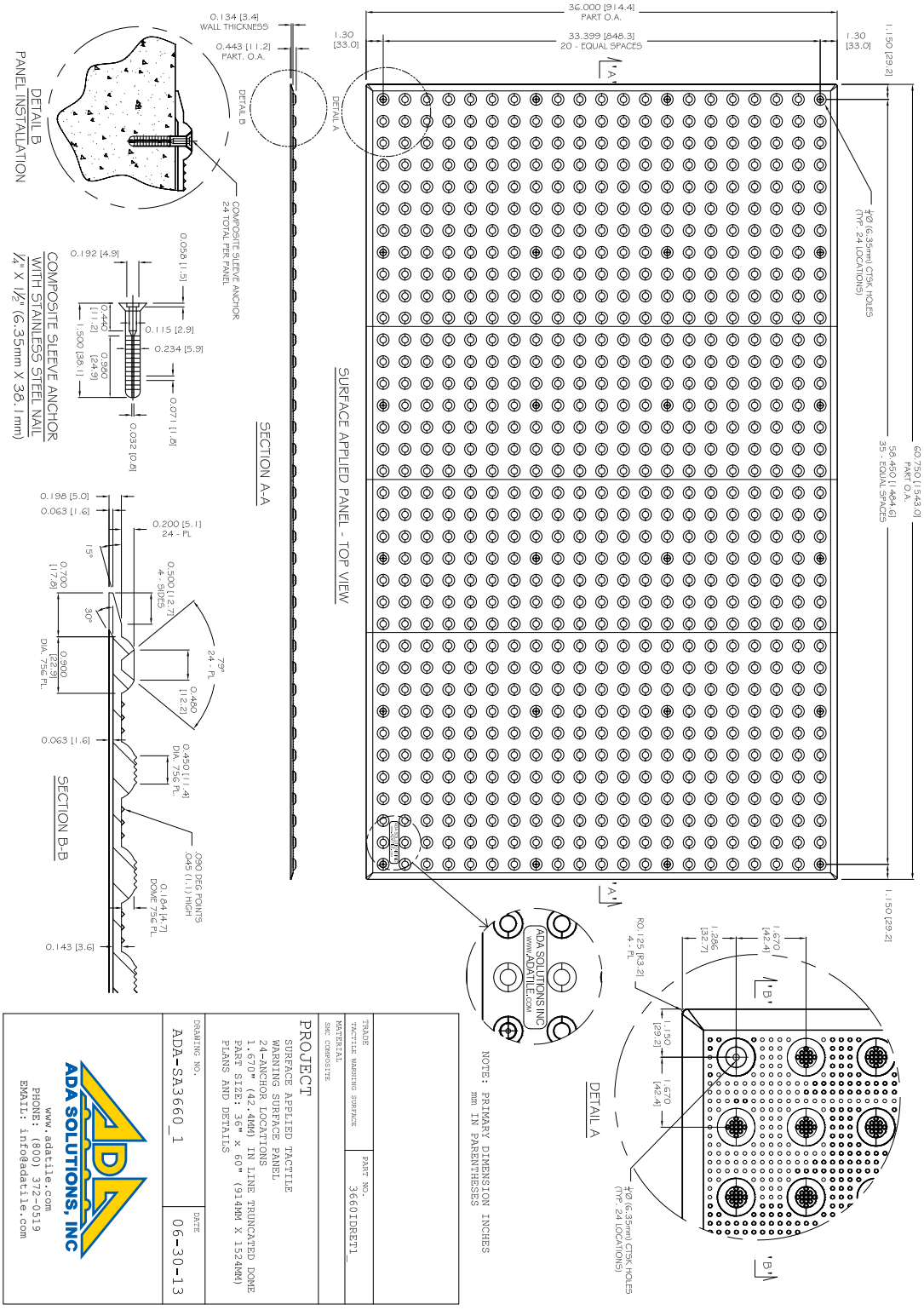
2.35″ (59.7 mm) Dome Spacing



Surface Mount Composite Tactile

36″ x 60″ (914 x 1524mm) Tile

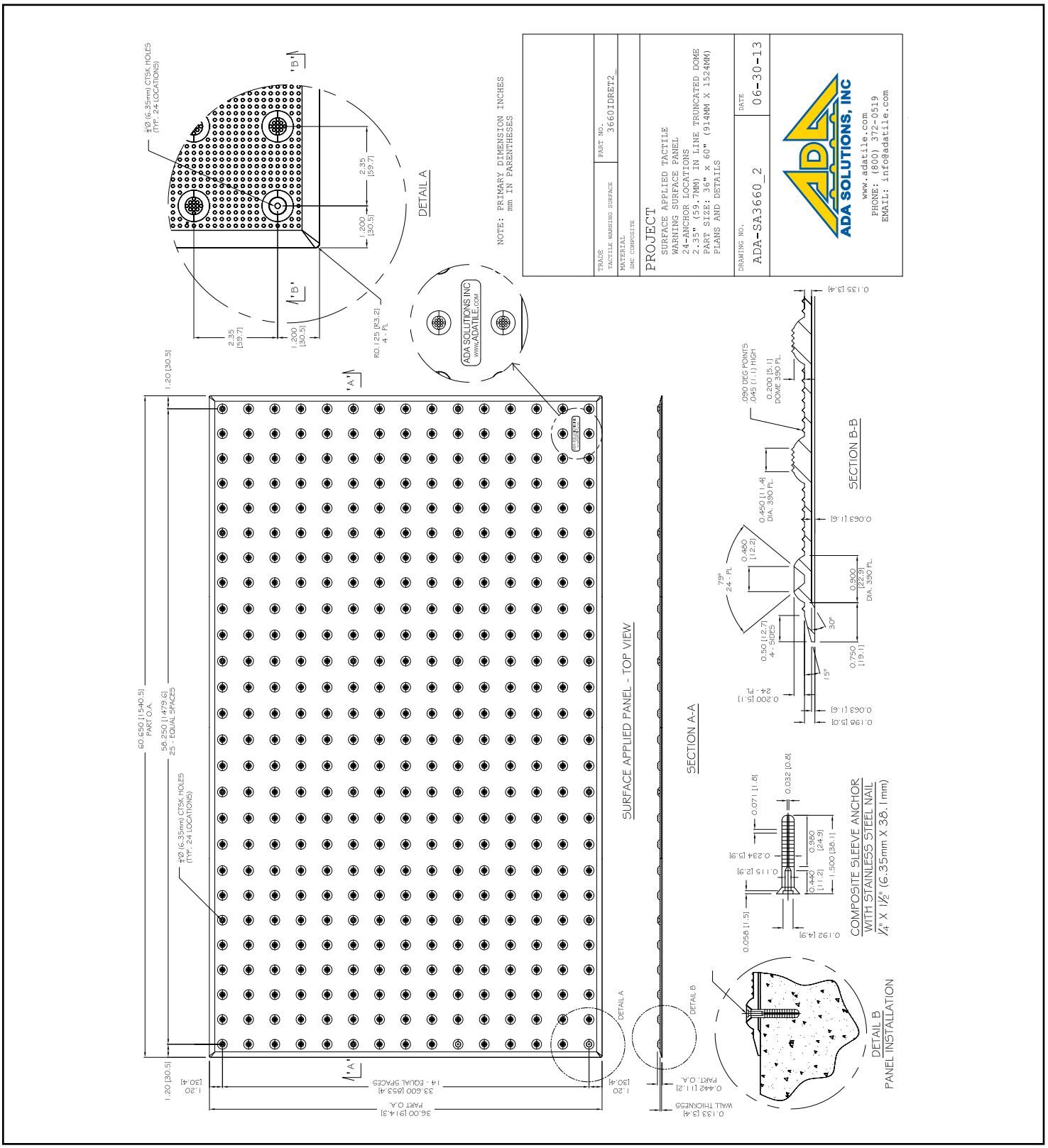
1.67″ (42.4 mm) Dome Spacing



Surface Mount Composite Tactile

36″ x 60″ (914 x 1524mm) Tile

2.35″ (59.7 mm) Dome Spacing



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- SURFACE MOUNT (RETROFIT)
- CAST-IN-PLACE (WET-SET)
- BAR TILE SURFACE MOUNT
- BAR TILE REPLACEABLE (WET-SET)
- GUIDE TILE
- ADAAG COMPLIANT
- UNIFORM COLOR THROUGHOUT

PRODUCT INFORMATION / SUBMITTAL

PRODUCT DATA SHEET

SURFACE APPLIED TACTILE

Inline Dome Pattern: Tactile Warning Surface

View additional photos, drawings and specifications on our website: **www.adatile.com.**
Call (800) 372-0519 with any questions.

DOME GEOMETRY *In accordance with ADA Regulations for Detectable Warning on Curb Ramps*: raised truncated domes with a diameter of nominal 0.9", a height of nominal 0.2", and a center-to-center spacing of nominal 1.67" minimum and 2.35" maximum.

TWS PANEL DIMENSIONS TWS Panels are available in 24"x36", 24"x48", 24"x60", 36"x48", and 36"x60" sizes and measure 3/16" thick. Panels can be custom cut to fit field conditions. All four edges of each panel have a ½" beveled edge. Each panel has 12 to 24 pre-formed fastener locations based upon panel size.

MATERIAL A homogenous glass and carbon reinforced composite which is colorfast and UV stable. Truncated domes are fiberglass reinforced for enhanced durability. The TWS panel color is uniform throughout and does not rely on any type of paint coating to achieve color stability. Standard colors include: Federal Yellow, Brick Red, Clay Red, Safety Red, Gray, Black, and Blue.

PHYSICAL CHARACTERISTICS:

Compressive Strength	28,900 psi	ASTM D 695
Flexural Strength	29,300 psi	ASTM D 790
Water Absorption	.07%	ASTM D 570
Slip Resistance	1.18 Dry/1.05 Wet	ASTM C 1028
Flame Spread Index	20	ASTM E 84
Salt Spray	No Change (200 hours)	ASTM B 117
Chemical Stain Testing	No Deterioration	ASTM 1308
Abrasion Resistance	549	ASTM C 501
Accelerated Weathering	Delta E <5.0 (2,000 hours)	ASTM G 155
Tensile Strength	11,600 psi	ASTM D 638
Adhesion to Conc.(20-180 degrees)	No Delamination or Degradation	ASTM C 903
Freeze/Thaw/Heat	No Disintegration	ASTM C 1026

INSTALLATION Surface Applied Tactile Panels shall be mechanically fastened and adhered to the underlying substrate.

INCIDENTALS **Fasteners**: ¼" x 1⅝" composite sleeve anchor with SS pins.
Adhesive: one component structural urethane adhesive.
Sealant: BASF NP1, Sikaflex 1A, or equivalent.

Appendix H – Hazard Assessment

Hazard Assessment

Job/Company Name: The Governor	**Assessment Team:** **Jared Stoodley, Martin Gillen, Danny Luong**
Location: 1441 Hollis Street, Halifax NS	**Date:** September 1st, 2020

Work Activity	**Related Task**	**Hazards Present**	**Priority Ranking A/B/C/ D**	**Controls**	**Date Controlled/by:**
1. Working on Site	Entering the Site	1. Personal Injury to Workers 2. Foot Injury 3. Eye Injury 4. Hand Injury 5. Dust 6. Ear Injury 7. Head Injury 8. Mobile Equipment and Site Traffic	A A A A A A A A	1. Orientation to be completed to access site. a. Site access to be limited to authorized personnel within controlled areas. b. PPE required at all times. 2. CSA (Green Triangle) safety boots required. 3. CSA approved safety glasses required for tasks when flying/floating debris is possible. a. If in Newfoundland, CSA approved safety glasses required at all times on site. 4. Gloves where required. 5. Respiratory protection where required 6. Hearing protection where required. (>85db) a. Double hearing protection when required. (>105db) 7. CSA Standard – Z94.1 – Industrial Protective Headwear – Performance, Selection, Care and Use. 8. CSA - Reflector type safety vests required by all pedestrians on site. a. Use caution entering and leaving site. b. Do not block traffic. c. Establish traffic control measures (i.e. 10 km/hr & Stop signs where necessary).	

1. Working on Site	Movement Around Site	1. Trip Hazards	B	1. Continuous housekeeping a. Workers to clean work areas at the end of task and day.	
		2. Poor Housekeeping	B	2. Bins must not be overflowing. a. Wood debris must be transported to the local landfill for disposal. b. Entire area to be cleaned and left in a safe orderly manner at the end of the day c. Concrete debris to be separated, loaded and transported to an approved landfill for disposal. d. On-going clean-up and removal of garbage/debris.	
		3. Openings in Floors/Ground/Roof	A	3. Openings to be identified and secured a. Guardrails must meet CSA Standard Z797 including a Top rail, mid-rail and toe-board. b. A hole or pit in floor, roof, or walkway or work area accessible to a worker shall be securely covered and identified.	
		4. Poor Lighting	B	4. Adequate lighting and illumination to be provided as required by the OHS Regulations. (See Site Specific Hazard Assessment)	
		5. Medical or Fire Emergency	A	5. Emergency response plans will be available for all jobs. a. Plans shall include site emergency contact numbers, and routes to the nearest hospital. b. The appropriate number of First-aid trained personnel on site shall be listed on the First Aiders list located on the Site Safety Board. c. First-aid kit locations shall be covered in	

1. Working on Site	Movement Around Site	6. General Public – Pedestrians & Vehicles		orientation and available on site. d. Subcontractor SDS to be submitted prior to work on site. e. Muster stations shall be established, identified with signage and communicated during orientation. (See Site Specific Hazard Assessment and Site Specific Safety Plan) f. Emergency vehicles will have right of way on site and access points must have room to accommodate their entry to site at all times. 6. All public sidewalk and road access points shall be clearly marked to ensure no unintentional entry by the general public. a. Any road signage and lane closures are to be completed with trained personnel and approved plans. b. All workers administering road signage and traffic control shall have applicable training as outlined in the Temporary Workplace Traffic Control Manual – Nova Scotia. c. All vehicles permitted to have site access shall yield to pedestrian and public vehicles when entering and exiting site. d. All vehicles accessing site shall ensure debris (mud, snow, rock) is cleared from their vehicles prior to entering public roadways.	
1. Working on Site	Washroom Use	1. Unsanitary Washroom Facilities	D	1. Provide washrooms adhering to the Provincial OHS Regulations. a. COVID-19 precautions listed under Section 12.	

1. Working on Site	Manual Materials Handling	1. Musculoskeletal Injury	D	1. Designated laydown areas to be established with appropriate signage and barricades. a. Follow Marco SJP #003 – Manual Lifting b. Follow Marco SWP #036 – Back Injury Prevention c. Follow Marco SWP #018 – Proper Lifting Practices d. Follow Marco SWP #005 – Storage and Handling of Materials	
2. Roof Work	Using Hand and Power Tools	1. Lacerations & Injuries Requiring First-Aid 2. Untrained, unfamiliar, broken, or otherwise improper use of tools. 3. Musculoskeletal Injury	A A B	1. All equipment guards must be in place as per manufacturer's specifications. a. First-Aid Kit required on site b. Where gloves for protecting hands when using power tools. c. Eye glasses or Face shield required for tools which may produce spark or flying debris. 2. All employees must have the related training applicable for all tools they will be required to handle prior to use. a. All tools must pass a pre-use inspection as per local OHS regulations. b. Follow Marco SJP and SWP related to material handling including: c. Marco SWP #026 – Hand Tools. d. Marco SWP #027 – Power Tools. e. Follow any tool specific SWP and SJP in the Marco Safety Program. 3. Follow Marco SJP and SWP related to material handling including: a. Marco SJP #003 – Manual Lifting b. Follow Marco SWP #036 – Back Injury Prevention c. Follow Marco SWP #018 – Proper Lifting	

2. Roof Work	Using Hand and Power Tools	4. Damaged Extension Cords	A	Practices d. Follow Marco SWP #005 – Storage and Handling of Materials 4. CSA grade extension cords in good condition only. a. If a cord has cracks or breaks it must be repaired or disposed of. b. Ground prong required c. Cords to be inspected, maintained and repaired as needed.	
2. Roof Work	Miscellaneous Tasks (Pressure washing, Leaf Blowing, Controlled Products)	1. Poor Lighting 2. Slips, Trips and Falls 3. Personal Injury to Workers 4. Working at Heights 5. Inhalation/Absorption/Ingestion/Injection of	A B A A	1. Adequate lighting and illumination to be provided as required by the OHS Regulations. (See Site Specific Hazard Assessment) 2. Area to be free of debris and clutter prior to starting any tasks and regularly cleaned as task progresses. a. CSA Certified (Green Triangle) Safety Boots with 6” ankle required on site. 3. Pre-use inspection of all tools and equipment prior to starting work. a. Ensure PPE is inspected, worn, and used as per manufacturer’s recommendations and local legislation. b. Eye glasses or Face shield required for tools which may produce spark or flying debris. 4. Fall protection to be used as prescribed by the local OHS regulations. a. Fall protection Safe Work Plans and Procedures required prior to starting work at heights b. Rescue plans must be documented and communicated to workers at heights. 5. SDS Sheets to be reviewed prior to use of controlled products.	

2. Roof Work	Miscellaneous Tasks (Pressure washing, Leaf Blowing, Controlled Products)	Controlled Products	A	a. All personnel on site are to have WHMIS 2015 (GHS) training. b. Appropriate PPE must be donned as per the SDS c. SDS Sheets must be as current as prescribed by the local provincial regulations	
3. Steel Erection	Crane Operation	1. Falling Debris & Crush Hazard	A	1. Never pass directly under a suspended load. a. Crane operator to take direction from only one spotter at a time unless hazard assessment dictates the need for multiple spotters for a safe landing.	
3. Steel Erection	Working at Heights	1. Falls from Heights 2. Inadequate Rescue Plans 3. Falling Tools or Objects 4. Inadequate Fall Protection	A A A A	1. Fall protection to be used as prescribed by the local OHS regulations. a. Fall protection Safe Work Plans and Procedures required prior to starting work at heights. b. Clearance calculations to be completed prior to work. 2. Rescue plans must be documented and communicated to workers at heights. 3. Tools and materials shall be secured by tool lanyards, guard rails with toe boards, lower level control zones or other adequate means of protection. 4. Pre-use inspection must be completed by the user of all fall-protection equipment. a. Recertification must be completed as per manufacturers' specifications.	
4. Electrical Work	Working around High Voltage	1. Energized Lines & Electrocution	A	1. Refer to local utility provider for clearance distances required for nearby powerlines.	

		2. Untrained Workers 3. Buried Services	A A	a. Follow Marco SJP #002 – Lock Out Tag Out b. Procedures must be coordinated by trained electrical personnel. 2. Provincial training requirements must be met for the province in which the line is located prior to working on or near power lines. a. Only certified electricians to perform work on power lines and power supplies. 3. Locates must be requested through the local utility providers prior to digging in an area where buried services may be present.	
5. Carpentry Work and Concrete Form Work 5. Carpentry Work and	Using Hand and Power Tools Using Hand and Power Tools	1. Lacerations & Injuries Requiring First-Aid 2. Untrained, unfamiliar, broken, or otherwise improper use of tools. 3. Electrical Shock	A A A	1. All equipment guards must be in place as per manufacturer's specifications. a. First-Aid Kit required on site b. Where gloves for protecting hands when using power tools. c. Eye glasses or Face shield required for tools which may produce spark or flying debris. 2. All employees must have the related training applicable for all tools they will be required to handle prior to use. a. All tools must pass a pre-use inspection as per local OHS regulations. b. Follow Marco SJP and SWP related to material handling including: c. Marco SWP #026 – Hand Tools. d. Marco SWP #027 – Power Tools. e. Follow any tool specific SWP and SJP in the Marco Safety Program. 3. CSA grade extension cords in good condition with functioning GFCI only. a. No cracks or breaks in cord b. Ground prong required	

Concrete Form Work		4. Dust	A	c. Cords to be inspected, maintained and repaired as needed. 4. Respiratory protection where required.	
5. Carpentry Work and Concrete Form Work	General Labour	1. Musculoskeletal Injury	B	1. Follow Marco SJP and SWP related to material handling including: a. Marco SJP #003 – Manual Lifting b. Follow Marco SWP #036 – Back Injury Prevention c. Follow Marco SWP #018 – Proper Lifting Practices d. Follow Marco SWP #005 – Storage and Handling of Materials e. Use ergonomic lifting aids, machinery, or partner whenever possible.	
		2. Slips, Trips and Falls	B	2. Area to be free of debris and clutter prior to starting any tasks and regularly cleaned as task progresses. a. CSA Certified (Green Triangle) Safety Boots with 6” ankle required on site. b. Perform a walk down of the path of travel for materials prior to carrying any materials that may obscure vision. c. Designated lay-down area to be established for materials.	
		3. Poor Lighting	A	3. Ensure proper task lighting is present. a. Ensure lighting is CSA approved with proper guards and cords which are in good condition. b. Unplug when not in-use, on break, and at the end of your shift.	
5. Carpentry Work and Concrete Form Work	General Labour	4. Exposed Rebar	A	4. Exposed rebar must be capped with plastic, wood, or metal to eliminate the potential for impalement.	
		5. Trench and Excavation	A	5. Refer to local OHS legislation to dictate level	

		Work		of protection required at depths of excavation or trench.	
5. Carpentry Work and Concrete Form Work	Working at Heights & Installing Roofing Components	1. Working/Falling from Heights 2. Inadequate Rescue Plans 3. Falling Tools or Objects	A A A	1. Assemble as much material as possible on the ground level before working at heights. a. Fall protection to be used as prescribed by the local OHS regulations. b. Fall protection Safe Work Plans and Procedures required prior to starting work at heights. c. Clearance calculations to be completed prior to work. 2. Tools must be secured when being used outside the scaffolding surface areas. a. Guardrails should include toe boards whenever possible to help prevent objects from unexpectedly leaving the work level. b. If guardrail toe boards and tool lanyards cannot be used a red tape and tag control zone must be set up below the work area to prevent any unwanted pedestrian access. c. All workers on site are required to wear hard hats meeting criteria of CSA Standard – Z94.1. 3. Tools and materials shall be secured by tool lanyards, guard rails with toe boards, lower level control zones or other adequate means of protection.	
5. Carpentry Work and Concrete Form Work	Working at Heights & Installing Roofing Components	4. Inadequate Rescue Plans 5. Inadequate Fall Protection	A A	4. Rescue plans must be documented and communicated to workers at heights. 5. Pre-use inspection must be completed by the user of all fall-protection equipment.	

				a. Recertification must be completed as per manufacturers' specifications.	
5. Carpentry Work and Concrete Form Work	Working from Scaffolding	1. Scaffold not Inspected 2. Collapse	A A	1. Scaffolding to be inspected by a competent person daily prior to each use. 2. A tagging system shall be utilized on site to efficiently communicate the status of the each scaffold tower. a. Green Tag – "Safe for Use" - Fully complete scaffolding with guardrails that meet the criteria set out in CSA Standard Z797 – Code of Practice for Access Scaffolds. b. Yellow Tag – "Caution: Potential or Unusual Hazard" – for incomplete scaffold or scaffold that could present a hazard to the worker. i. The nature of the hazard must be listed on the tag. c. Red Tag – "DANGER: DO NOT USE SCAFFOLD" – to be used when scaffold is left unattended during assembly or dismantling, or it has been deemed unfit for use. d. Scaffolding without a tag shall be classified as having a red tag, until the scaffolding can be inspected and appropriately tagged by a competent person.	
		1. Machine Topple	A	1. Aerial Work Platforms to be set up and used as per manufacturer's recommendations. a. If outriggers are equipped on machine they must be used if required by the	

5. Carpentry Work and Concrete Form Work	Working from Aerial Platforms	2. Untrained Workers 3. Illegible Machine Controls 4. Dropped Objects 5. Workers Launched and Falls from Heights	A D A A	manufacturer. 2. No workers who have not received training on site shall be permitted to control the machine. 3. Control panel and instrument cluster must remain visible. a. If control panel is illegible machine must be tagged out and repaired. 4. Tools must be secured when being used outside the basket, or a control zone set up around the AWP to prevent unwanted pedestrian access a. AWP's are not to be used to transport materials to and from worksite as a material lift. b. All workers on site are required to wear hard hats meeting criteria of CSA Standard – Z94.1. 5. All workers piloting or riding in the AWP must use appropriate fall protection. a. Workers must not tie off to handrails, only using designated anchor points within the basket.	
5. Carpentry Work and Concrete Form Work 5. Carpentry Work and	Caulking/Gluing (Use of Controlled Products) Caulking/Gluing (Use of Controlled	1. Inhalation/Absorption/Ingestion/Injection of Controlled Products. 2. Fire/Explosion caused by use of controlled	A A	1. SDS Sheets to be reviewed prior to use of controlled products. a. All personnel on site are to have WHMIS 2015 (GHS) training. b. Appropriate PPE must be donned as per the SDS. c. SDS Sheets must be as current as prescribed by the local provincial regulations. 2. Review of SDS to ensure proper fire fighting and ventilation requirements are met prior to application.	

Concrete Form Work	Products)	products.		a. Marco Safety boards will be strategically placed around site and will include: i. Air horn ii. Fire Extinguisher iii. Eye Wash iv. Emergency Contact Numbers	
6. Site Civil Work & Excavation	Heavy Equipment Operation	1. Equipment Failure/Malfunction	A	1. Pre-use inspection of all equipment must be completed by competent operator. a. If machine is found to have any defects it must be tagged out of service and repaired by a competent mechanic.	
		2. Collision with pedestrian or other equipment.	A	2. Use spotter when visibility is limited and/or reduced. a. Operators to be properly trained and aware of surroundings and site. b. CSA - Reflector type safety vests required by all pedestrians on site. c. All heavy equipment to be equipped with a audible backup alarm.	
		3. Overhead/Buried Utilities	A	3. Locates and clearance distances to be obtained from the local utility providers prior to working near above ground power lines or areas where utilities may be buried in the area. a. Spotters to be used when forced to work near exposed utilities.	
6. Site Civil Work & Excavation	Heavy Equipment Operation	4. Poor Ground Condition	B	4. Pre-job walk down required of path of travel to ensure ground conditions are suitable for travel. a. Operators are to ensure loads are balanced prior to travel.	
		5. Dust	A	5. Dust suppression as required (See Site Specific Hazard Assessment)	

6. Site Civil Work & Excavation	Refueling of Equipment	1. Environmental Spills 2. Exposure to Fuel 3. Fire/Explosion	A A A	1. Erosion and sediment control plan where required. a. Spill kits shall be located on site. 2. All workers to have WHMIS 2015 (GHS) training a. SDS required for all controlled products on site. 3. All equipment must be equipped with fire extinguisher.	
6. Site Civil Work & Excavation	Trenching & Excavation	1. Collapse of Excavation 2. Overhead/Buried Utilities	A A	1. Refer to local OHS legislation to dictate level of protection required at depths of excavation or trench. 2. Locates and clearance distances to be obtained from the local utility providers prior to working near above ground power lines or areas where utilities may be buried in the area. a. Spotters to be used when forced to work near exposed utilities.	
7. Mechanical Work 7. Mechanical Work	Confined Space Work Confined Space Work	1. Limited Access and Egress 2. Inadequate Rescue Plan 3. Hazardous Atmosphere	A A A	1. All Confined Space Work shall follow Marco SJP #015 – Confined Space. 2. A Confined Space specific rescue plan will be developed in conjunction with a hazard assessment of the area to be entered. a. Rescue plans are to be reviewed with all entrants, supervision, and man-watch personnel prior to entry. 3. Atmospheric testing will be conducted by a competent person with calibrated instruments. a. At the very least tests must be completed: i. Prior to initial entry ii. After break or interruption in work where the space was left unattended	

				iii. Any time conditions change. b. Respiratory protection shall be chosen based on the hazard assessment and atmospheric testing results.	
7. Mechanical Work	Using Hand and Power Tools	1. Lacerations & Injuries Requiring First-Aid 2. Untrained, unfamiliar, broken, or otherwise improper use of tools. 3. Electrical Shock 4. Dust	A A A A	1. All equipment guards must be in place as per manufacturer's specifications. a. First-Aid Kit required on site b. Where gloves for protecting hands when using power tools. c. Eye glasses or Face shield required for tools which may produce spark or flying debris. 2. All employees must have the related training applicable for all tools they will be required to handle prior to use. a. All tools must pass a pre-use inspection as per local OHS regulations. b. Follow Marco SJP and SWP related to material handling including: c. Marco SWP #026 – Hand Tools. d. Marco SWP #027 – Power Tools. e. Follow any tool specific SWP and SJP in the Marco Safety Program. 3. CSA grade extension cords in good condition with functioning GFCI only. a. No cracks or breaks in cord b. Ground prong required c. Cords to be inspected, maintained and repaired as needed. 4. Respiratory protection where required.	
		1. Equipment Failure/Malfunction	A	1. Pre-use inspection of all equipment must be completed by competent operator. a. If machine is found to have any defects it must be tagged out of service and repaired by a competent mechanic.	

7. Mechanical Work	Working in Conjunction with Heavy Equipment	2. Collision with pedestrian or other equipment.	A	2. Use spotter when visibility is limited and/or reduced. a. Operators to be properly trained and aware of surroundings and site. b. CSA - Reflector type safety vests required by all pedestrians on site. c. All heavy equipment shall be equipped with a audible backup alarm.	
		3. Crush/Pinch points	A	3. A control zone shall be set up around any suspended mechanical components to prevent unwanted pedestrian access. a. Be mindful of hand placement at all times when maneuvering mechanical components or aggressively cranking tools. b. Equipment shall only move mechanical components at the direction of the designated spotter.	
	Working in Conjunction with Heavy Equipment	4. Lifting Equipment Failure	A	4. All rigging and hoisting equipment shall be pre-use inspected by a competent rigger and certified as per the manufacturers specifications. a. Suspended loads that are not fastened shall be blocked in place if work needs to take place near or around them.	
8. Exterior Cladding Installation for Site	Working from Aerial Platforms	1. Machine Topple	A	1. Aerial Work Platforms to be set up and used as per manufacturer's recommendations. a. If outriggers are equipped on machine they must be used if required by the manufacturer.	
		2. Untrained Workers	A	2. No workers who have not received training on site shall be permitted to control the machine.	
		3. Illegible Machine Controls	D	3. Control panel and instrument cluster must remain visible.	

		4. Dropped Objects 5. Workers Launched and Falls from Heights	A A	a. If control panel is illegible machine must be tagged out and repaired. 4. Tools must be secured when being used outside the basket, or a control zone set up around the AWP to prevent unwanted pedestrian access a. AWP's are not to be used to transport materials to and from worksite as a material lift. b. All workers on site are required to wear hard hats meeting criteria of CSA Standard – Z94.1. 5. All workers piloting or riding in the AWP must use appropriate fall protection. a. Workers must not tie off to handrails, only using designated anchor points within the basket.	
8. Exterior Cladding Installation for Site	Working From Scaffolding	1. Scaffold not Inspected 2. Collapse	A A	1. Scaffolding to be inspected by a competent person daily prior to each use. 2. A tagging system shall be utilized on site to efficiently communicate the status of the each scaffold tower. a. Green Tag – "Safe for Use" - Fully complete scaffolding with guardrails that meet the criteria set out in CSA Standard Z797 – Code of Practice for Access Scaffolds. b. Yellow Tag – "Caution: Potential or Unusual Hazard" – for incomplete scaffold or scaffold that could present a hazard to the worker. i. The nature of the hazard must be listed on the tag. c. Red Tag – "DANGER: DO NOT USE SCAFFOLD" – to be used when scaffold is	

				left unattended during assembly or dismantling, or it has been deemed unfit for use. d. Scaffolding without a tag shall be classified as having a red tag, until the scaffolding can be inspected and appropriately tagged by a competent person.	
8. Exterior Cladding Installation for Site 8. Exterior Cladding Installation for Site	Working at Heights Working at Heights	1. Falls from Heights 2. Dropped Objects	A A	1. Fall protection to be used as prescribed by the local OHS regulations. a. Fall protection Safe Work Plans and Procedures required prior to starting work at heights. b. Clearance calculations to be completed prior to work. 2. Tools must be secured when being used outside the scaffolding surface areas. a. Guardrails should include toe boards whenever possible to help prevent objects from unexpectedly leaving the work level. b. If guardrail toe boards and tool lanyards cannot be used a red tape and tag control zone must be set up below the work area to prevent any unwanted pedestrian access. c. All workers on site are required to wear hard hats meeting criteria of CSA Standard – Z94.1.	
		1. Machine Topple	A	1. Aerial Work Platforms to be set up and used as per manufacturer's recommendations. a. If outriggers are equipped on machine	

8. Exterior Cladding Installation for Site	Working from Aerial Platforms	2. Untrained Workers 3. Illegible Machine Controls 4. Dropped Objects 5. Workers Launched and Falls from Heights	A D A A	they must be used if required by the manufacturer. 2. No workers who have not received training on site shall be permitted to control the machine. 3. Control panel and instrument cluster must remain visible. a. If control panel is illegible machine must be tagged out and repaired. 4. Tools must be secured when being used outside the basket, or a control zone set up around the AWP to prevent unwanted pedestrian access a. AWP's are not to be used to transport materials to and from worksite as a material lift. b. All workers on site are required to wear hard hats meeting criteria of CSA Standard – Z94.1. 5. All workers piloting or riding in the AWP must use appropriate fall protection. a. Workers must not tie off to handrails, only using designated anchor points within the basket.	
8. Exterior Cladding Installation for Site	Working from Aerial Platforms				
8. Exterior	Using Hand and Power Tools	1. Lacerations & Injuries Requiring First-Aid 2. Untrained, unfamiliar, broken, or otherwise improper use of tools.	A A	1. All equipment guards must be in place as per manufacturer's specifications. a. First-Aid Kit required on site b. Where gloves for protecting hands when using power tools. c. Eye glasses or Face shield required for tools which may produce spark or flying debris. 2. All employees must have the related training applicable for all tools they will be required to handle prior to use.	

Cladding Installation for Site		3. Electrical Shock	A	a. All tools must pass a pre-use inspection as per local OHS regulations. b. Follow Marco SJP and SWP related to material handling including: c. Marco SWP #026 – Hand Tools. d. Marco SWP #027 – Power Tools. e. Follow any tool specific SWP and SJP in the Marco Safety Program. 3. CSA grade extension cords in good condition with functioning GFCI only. a. No cracks or breaks in cord b. Ground prong required c. Cords to be inspected, maintained and repaired as needed.	
8. Exterior Cladding Installation for Site	Lifting and Pedestrian Travel with Materials	1. Musculoskeletal Injury	B	1. Follow Marco SJP and SWP related to material handling including: a. Marco SJP #003 – Manual Lifting b. Follow Marco SWP #036 – Back Injury Prevention c. Follow Marco SWP #018 – Proper Lifting Practices d. Follow Marco SWP #005 – Storage and Handling of Materials e. Use ergonomic lifting aids, machinery, or partner whenever possible.	
8. Exterior Cladding Installation for Site	Lifting and Pedestrian Travel with Materials	2. Slips, Trips and Falls	B	2. Area to be free of debris and clutter prior to starting any tasks and regularly cleaned as task progresses. a. CSA Certified (Green Triangle) Safety Boots with 6” ankle required on site. b. Perform a walk down of the path of travel for materials prior to carrying any materials that may obscure vision. c. Designated lay-down area to be established for materials.	

9. Office Work	Computer Use	1. Musculoskeletal or Repetitive Stress Injuries 2. Prolonged Seated Postures 3. Eye Strain 4. Housekeeping 5. Congested Work Area	B D C B B	1. Follow Marco SWP #053 – Office Safety a. Every hour workers should get up from their desk and walk around for about 10 minutes. b. Perform gentle stretches on hands, back, neck and legs after being seated for an extended period. 2. Increase standing time whenever possible. a. Use the following guidelines when choosing a proper chair: i. Feet on the floor ii. Knees should be slightly above the seat. iii. Keyboards should be placed at a comfortable level, even with your elbow when arm is hanging freely. iv. Monitors should be placed at a 90° angle to light sources. 3. Every hour workers should focus on something other than a screen or small font for approximately 10 minutes. 4. Employees are responsible for keeping their individual work areas clean and orderly. 5. Ensure area is clear for use with mouse and keyboard. a. Keep computer cables neat and orderly and out of the aisles.	
		1. Musculoskeletal Injury	B	1. Follow Marco SJP and SWP related to material handling including: a. Marco SJP #003 – Manual Lifting b. Follow Marco SWP #036 – Back Injury Prevention c. Follow Marco SWP #018 – Proper Lifting Practices d. Follow Marco SWP #005 – Storage and	

9. Office Work	Manual Lifting	2. Slips, Trips and Falls	B	Handling of Materials e. Use ergonomic lifting aids, machinery, or partner whenever possible. 2. Area to be free of debris and clutter prior to starting any tasks and regularly cleaned as task progresses. a. Perform a walk down of the path of travel for materials prior to carrying any materials that may obscure vision. b. Designated lay-down area to be established for materials.	
9. Office Work	Cutting using Sharp Edged Tools	1. Lacerations & Injuries Requiring First-Aid	A	1. All cuts should be made away from body in direction. a. First-Aid Kit required on site. b. Use safety knives with self-retracting blades when possible.	
10. Harassment & Workplace Violence	Working Near Public Areas	1. Contact with General Public 2. Assault or Harassment from General Public	C A	1. All employees must review and understand the Marco Harassment Policy and take proper steps to ensure a positive relationship with the public. 2. De-escalate or leave any high risk situations. a. Report any situations to supervision immediately. b. If worker feels they are in immediate danger, phone 911.	
11. Harassment & Workplace Violence	Working in Congested Areas with Other Trades	1. High Stress Environment	B	1. Avoid working in crowded areas. a. Stagger tasks if possible if they overlap work areas. b. Take micro-breaks to allow others gain space and change work area.	
		1. Unexpected or Sick personnel entering site	A	1. All site entrances shall be equipped with COVID-19 related STOP signs informing any person who attempts to access the site that if	

12. COVID-19 Exposure	All Tasks	2. General Hygiene	A	they have travelled or are symptomatic that they are not permitted access to the site. a. All Personnel shall self assess prior to coming to work. b. Site entrances shall be assessed to determine whether additional signage may be required on a case by case basis. c. Site access/gates shall be restricted to essential deliveries and pick-ups only. d. One point of entry will be established to ensure organized access to site. 2. Handwashing Stations shall be provided on site. a. Hand Sanitizing Stations shall be installed at various points on the project footprint (as they become available)	
		3. Employees Working in Close Proximity	A	3. As per the Department of Labour and Advanced Education, everyone on site must abide by the 2-meter social distancing rule. a. If a task can not be done without two workers coming within 2 meters of each other the task must be pre-planned and organized to minimize the amount of time the workers must be within 2 meters of each other.	
		4. Employees Meeting in Constricted Areas	A	4. Meetings will be conducted via phone or video conferencing whenever possible. a. If a meeting is to take place on site the meeting attendants shall respect the 2 meter social distancing requirements.	
		5. Site Personnel testing Positive for COVID-19	A	5. In the event a worker tests positive for coronavirus: a. Marco's Site Superintendent will immediately contact 811 and implement measures required of the Nova Scotia	

12. COVID-19 Exposure	All Tasks	6. Developing Symptoms at Work	A	Health Authority which may include; i. The site will perform a complete shut down for the length of time required to perform a complete disinfection of the affected area of the site, including offices and equipment as deemed necessary after investigation. ii. The infected worker will not be permitted back to the site until they provide information that they can no longer transmit the virus to the others and they are cleared by the Nova Scotia Health Authority to return to work. 6. Worker in question to be moved to secure area where they will not contact any other workers inadvertently. a. They can retrieve belongings but only after putting on nitrile gloves and face covering to limit the potential spread. b. Once belongings are retrieved the area the worker was in will be disinfected. c. Worker must return home immediately. i. If they cannot drive themselves they will be assigned a driver. ii. Both driver and passenger will be required to wear face coverings and nitrile gloves and the driver will open the door for the passenger who will be seated in	

12. COVID-19 Exposure	All Tasks	7. Changing or Unclear Regulations and Guidelines	A	the back. 7. These measures shall be used in conjunction with the latest version of the Marco Group COVID-19 Site Response Plan and are subject to change as federal, provincial, and local regulations adapt to the COVID-19 pandemic.	
Reassessment Date & Time:					
Work Activity	**Related Task**	**Hazards Present**	**Priority Ranking A/B/C/ D**	**Controls**	**Date Controlled**

Hazard Assessment Review Sheet

Print Name	Company Name	Date of Review	Sign

Hazard Ranking:

Class A Hazard: Controls must be put in place Immediately
Class B Hazard: Controls must be put in place within 24 Hours
Class C Hazard: Controls must be put in place within 72 Hours
Class D Hazard: Controls must be put in place within 1 Week

Additional Comments:

Hazards identified are sub-trade specific. Marco Group is listed under completed by, as a means of enforcing regulations as set out by the provincial Act and Regulations. Hazards that arise out of the course of the project will be brought to the attention of the superintendent/management & will be dealt with accordingly.

Inspection Template

Marco Group
135 Ilsley Avenue
Dartmouth , Nova Scotia B3B 1T1

Marco Superintendent Weekly Safety Inspection

TYPE: Safety **TRADE:**

DESCRIPTION:

Weekly Site Safety Inspection for Marco Superintendents

ATTACHMENTS:

Untitled Section

1.1	List of Trades on Site:
1.2	Number of Workers on Site:

General Site Requirements

2.1	All employees wearing proper PPE
2.2	Emergency #'s posted, emergency exits marked and sufficient
2.3	Facilities (washrooms, clean areas, etc)
2.4	Fire Extinguishers - Good order, adequate # and location
2.5	First Aid Kits - stocked, available
2.6	Eye Wash Stations - available, mounted, filled, not expired
2.7	Site Secure - signage, special warnings, caution/danger tape
2.8	Paperwork - hazard assessments, toolbox talks, inspections, etc

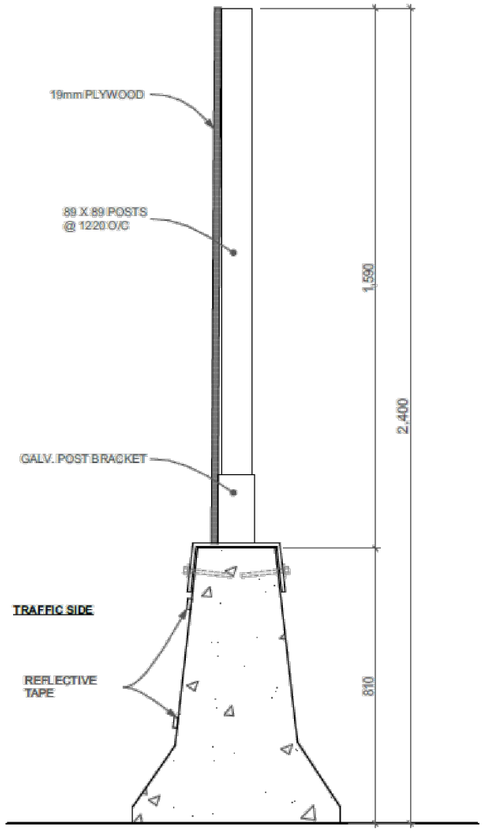
Fall Protection & Access

3.1	Ladders/Stairs/Steps - sufficient, used properly, in good condition
3.2	Scaffolding/Temporary Floors - inspected, in good condition
3.3	Fall Protection - used where required, in good condition
3.4	Guardrails, Railings - top-rail, mid-rail, toeboards
3.5	Openings in Floor/Roof/Ground - covered, secured

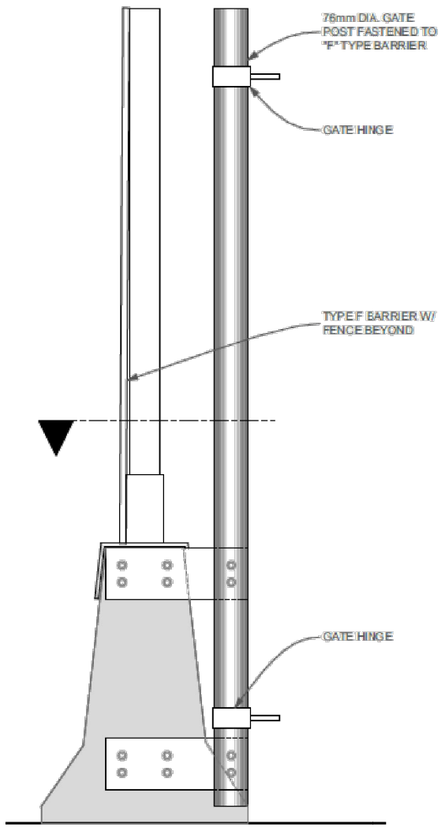
Field Work Conditions

4.1	Housekeeping - garbage, debris, tools, materials, etc
4.2	Storage Areas - in good order, materials handled properly
4.3	Compressed Gas Cylinders - secured upright in proper location
4.4	Electrical Equipment - cords, panels, tools, GFCI in good condition
4.5	Confined Space - procedures being followed
4.6	Welding/Cutting Equipment - used properly
4.7	Excavations/Trenches - shored, sloped, setup properly
4.8	Lock-Out/Tag-Out - procedures being followed
4.9	Hazardous Corners - protrusions, pinch points guarded
4.10	Cranes/Heavy Equipment - inspected, setup properly, documentation in place
4.11	Environmental Hazards - air quality, noise, vibration
4.12	Ergonomic Hazards - lighting, lifting, working postures, etc.
4.13	Other:

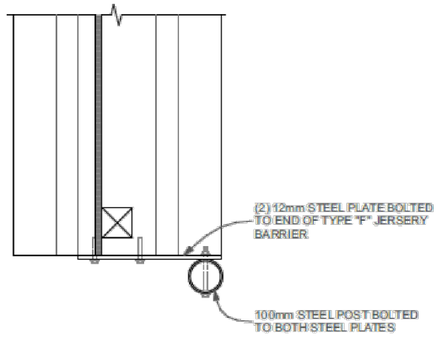
Appendix I – Fence Covering and F-shape Barrier Specification



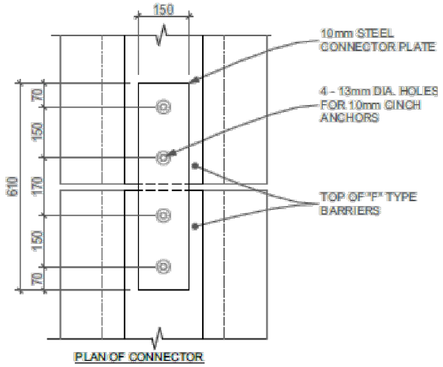
2 HRM-10 F TYPE BARRIER WITH FENCE
SCALE: 1:10



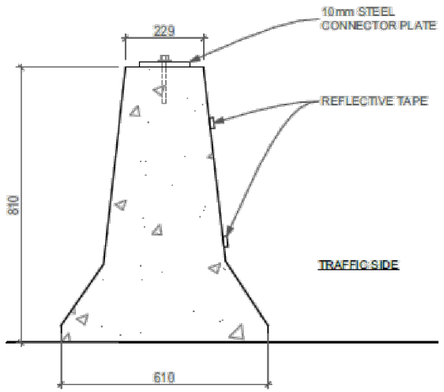
3 HRM-10 GATE POST CONNECTION TO F TYPE BARRIER
SCALE: 1:10



PLAN AT GATE POST



PLAN OF CONNECTOR



4 HRM-10 TYPICAL F TYPE BARRIER
SCALE: 1:10

SANI ENGINEERING

Sani Engineering Limited
79 Thorne Avenue
Dartmouth, Nova Scotia
B3B 0A4

Tel: (902) 482-1009
Web: www.sanieng.com

No.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	04/11/19

NO.	DESCRIPTION	DATE

STAMP

Use of this drawing constitutes acceptance of all terms and conditions as per S.E.L. Terms of Engagement

DRAWING NORTH

CLIENT: ARCP

PROJECT: GOVERNOR'S PLAZA

PROJECT ADDRESS: 1451 & 1453 HOLLIS ST. HALIFAX, NS

DWG TITLE: BARRIER DETAILS

SCALE: AS NOTED

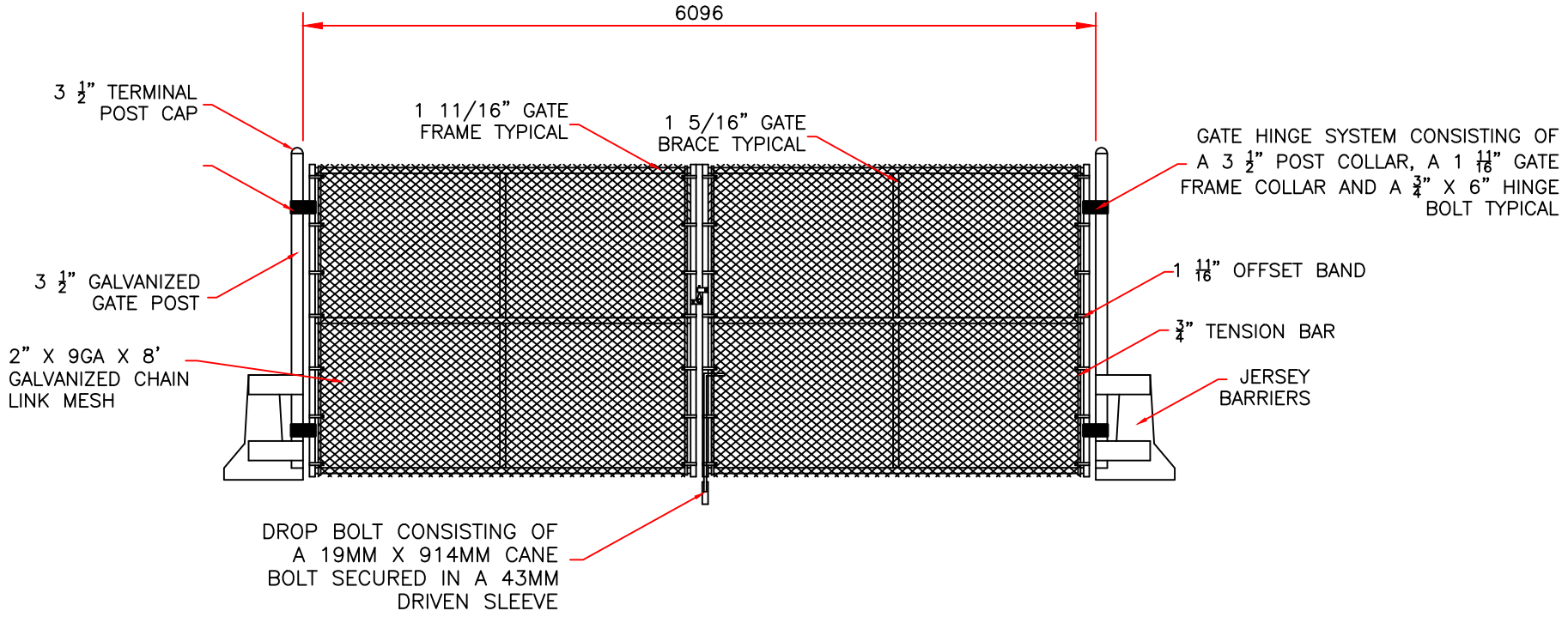
DATE: NOVEMBER 2019

DRAWN BY: GP / SS

CHECKED BY: JL / SS

PROJECT NUMBER: 2019-733

SK1



DOUBLE SWING GATE

NOTES:

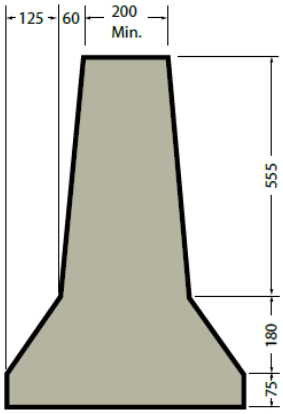
1. ALL DIMENSIONS ARE IN IMPERIAL UNLESS OTHERWISE NOTED.
2. ALL POSTS, RAILS, FITTINGS AND CHAIN LINK ARE GALVANIZED STEEL UNLES OTEHERWISE NOTED.
3. ALL FITTINGS ARE AS PER CAN/CGSB-138-96 AND ARE INSTALLED TO INDUSTRY STANDARDS

Maritime Fence Ltd.
173 RESEARCH ROAD
Goffs, Nova Scotia B2T 1K3
(902)-469-1824 Fax (902) 469-1825

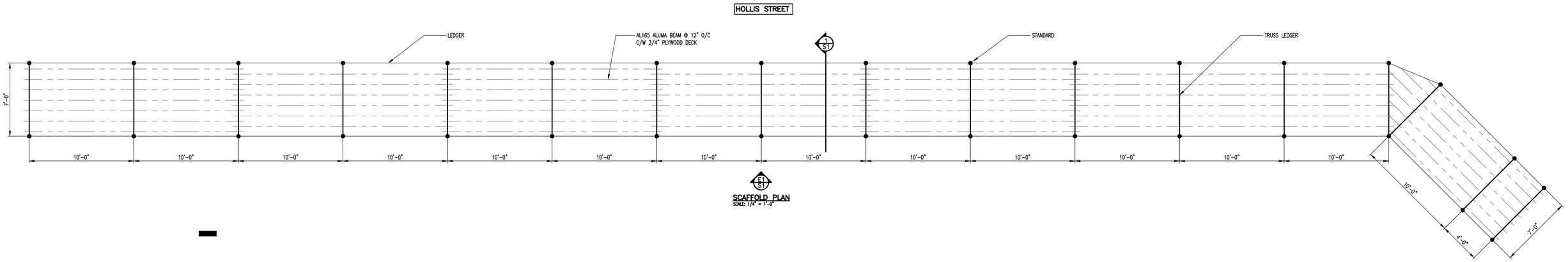
Maritime F·E·N·C·E

DRAWN BY: MRB	DESIGNED BY:	88 GOVERNOR'S PLAZA
SCALE NTS	DATE 8 DECEMBER 2020	

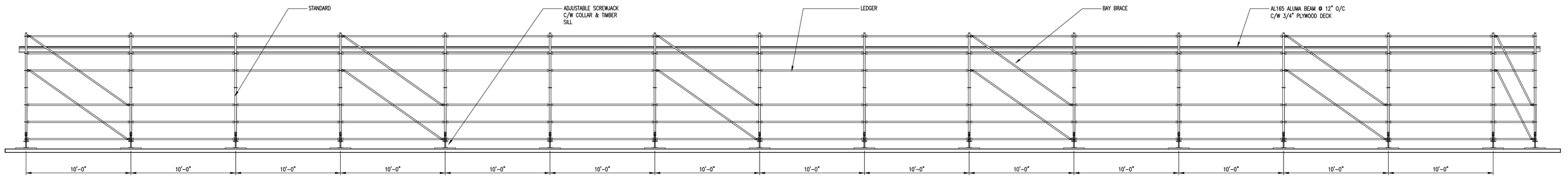
F-shape Barrier



Dimensions are in mm



SCAFFOLD PLAN (E1 / S1)
SCALE: 1/4" = 1'-0"



HOLLIS STREET – ELEVATION (E1 / S1)
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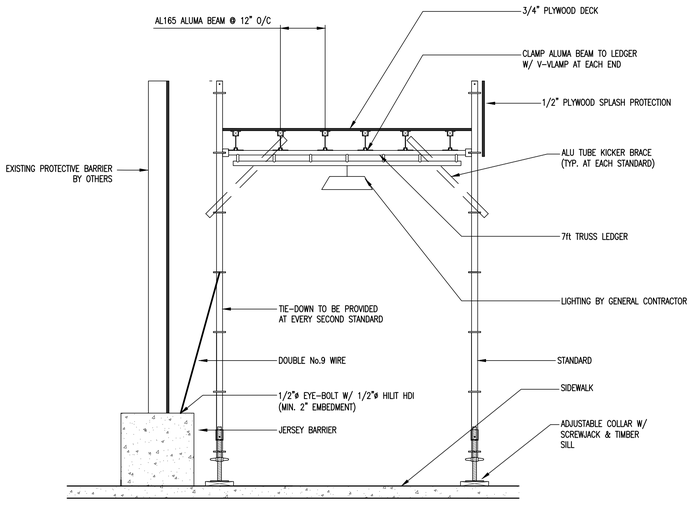


TYPICAL SECTION (1 / S1)
SCALE: N.T.S.

GENERAL NOTES:

1. ALL WORK AND MATERIALS SHALL CONFORM TO THE NATIONAL BUILDING CODE OF CANADA 2015.
2. THE CONTRACTOR SHALL EXAMINE ALL DRAWINGS AND CHECK ALL DIMENSIONS AGAINST EXISTING SITE CONDITIONS AND REPORT ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
3. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT OF NOVA SCOTIA.
4. DO NOT SCALE DRAWINGS, ONLY GIVEN DIMENSIONS SHALL BE USED.
5. ANY CHANGES, MODIFICATIONS, ALTERATIONS, DELETIONS, REVISIONS AND ADDITIONS TO THE PRESENT DRAWINGS, WITHOUT THE EXPRESS WRITTEN CONSENT FROM SANI ENGINEERING LIMITED, WILL RELIEVE SANI ENGINEERING LIMITED, ITS PRINCIPALS, SHAREHOLDERS, EMPLOYEES AND OTHERS, OF ALL DIRECT AND IMPLIED LIABILITIES.

SCAFFOLD NOTES:

1. REFER TO TOTAL SYSTEM SCAFFOLD ENGINEERING SPECIFICATIONS FOR ADDITIONAL ALLOWABLE LOADS, BRACING REQUIREMENTS, AND EXTERNAL LATERAL SUPPORTS FOR SCAFFOLDING EQUIPMENT IN USE.
2. ALL WORK TO BE PERFORMED AS PER REGULATIONS PURSUANT TO THE OCCUPATIONAL HEALTH & SAFETY ACT. ALL ACCESS SCAFFOLD TO BE ERECTED & USED IN ACCORDANCE WITH CSA Z797-09.
3. THE CONTRACTOR SHALL APPOINT A QUALIFIED PERSON TO CARRY OUT PERIODICAL INSPECTIONS AND MAINTENANCE OF ENTIRE SYSTEM IN ORDER TO GUARANTEE A SAFE AND EFFICIENT PERFORMANCE OF THE SCAFFOLD.
4. ALL FRAMES TO BE PINNED, LEVEL AND PLUMB.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MONITOR LOADS IMPOSED ON SCAFFOLD (LIVE LOAD, SNOW LOAD AND WIND LOAD) TO ENSURE THAT THE MAXIMUM IMPOSED DOES NOT EXCEED THE STATED ALLOWABLE LOAD.
7. SCAFFOLD DECKS TO BE TIED DOWN TO SCAFFOLD FRAME TO PREVENT UPLIFT.
8. ALL TUBE MUST BE 6061-T6 ALUMINUM 1.9"ø WITH 0.145" WALL THICKNESS.

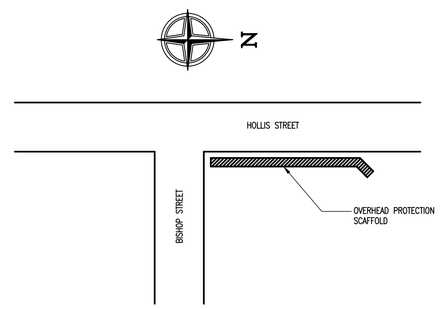
SCAFFOLD LIVE LOAD RESTRICTIONS:

OVERHEAD PROTECTION PLATFORM DESIGNED FOR A LIVE LOAD OF 50psf.

SCAFFOLD WIND LOAD RESTRICTIONS:

SCAFFOLD IS TO BE ENCLOSED WITH PLYWOOD HOARDING (ROOF AND SIDES) AND IS TO BE USED IN ACCORDANCE WITH THE FOLLOWING LIMITS:

- WIND SPEED > 100 km/hr – PLYWOOD HOARDING TO BE REMOVED IN ADVANCE OF PREDICTED WIND SPEEDS IN EXCESS OF 100 km/hr.



TRAFFIC CONTROL KEY PLAN
SCALE: N.T.S.

Structural Consultant

SANI ENGINEERING

Sani Engineering Limited
79 Thorne Avenue
Dartmouth, Nova Scotia
B3B 0A4
Tel: (902) 482-1009
Web: www.saniengineering.com

Client: Sancton Access

Project: Overhead Protection at Hollis & Bishop Street Halifax, Nova Scotia

No.	DESCRIPTION	DD/MM/YY
1	FOR REVIEW	15/12/20
2	FOR CONSTRUCTION	16/12/20

No.	DESCRIPTION	DD/MM/YY

Stamp

Title: Scaffold Plan, Elevations, Sections & Notes

Scale: AS NOTED	Date: DECEMBER 2020
Designed by: SS	Sheet: S-1
Drawn by: SS	
Checked by: SS	
Sani Project Number: 2020-804	

Barrier Installation Plan

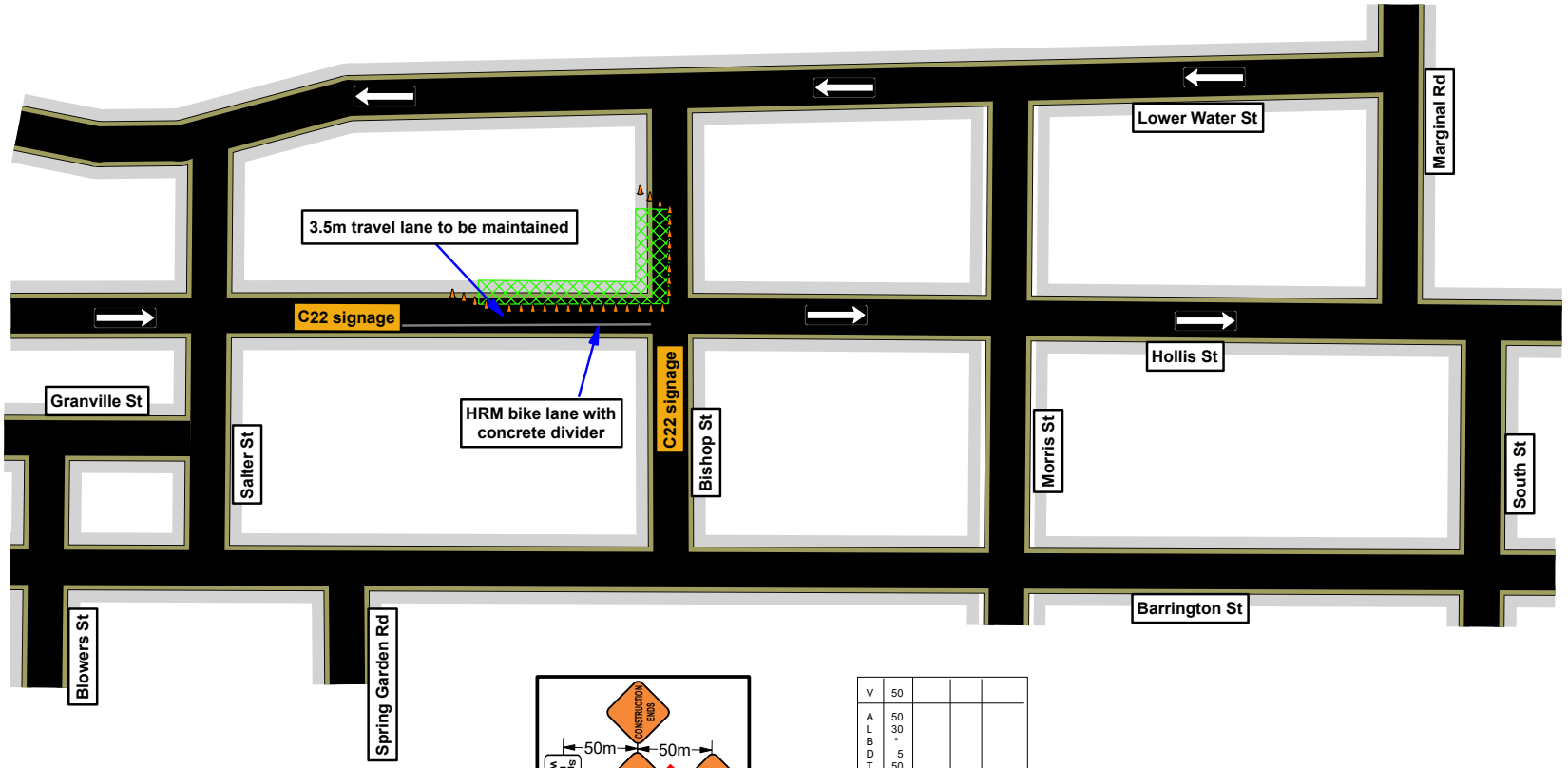
Date: 2020-11-16 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: Governor Plaza
Contractor: MARCO Contact: Zavin Graham, 902-877-4410

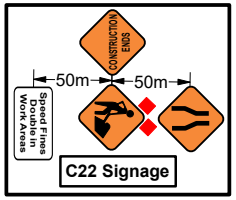
Comments:

Not to Scale
Application Guide C22
Barrier Installation Plan
See Pedestrian Management Plan for sidewalk closure details

Legend

- Cone
- Work Area





V	50			
A	50			
L	30			
B	*			
D	5			
T	50			

V - Speed Zone	km/h
A - Sign Spacing	m
L - Taper Length	m
B - Buffer Area Length	m
D - Cone/Drum Spacing	m
T - Length Between Tapers	m

Barrier Removal Plan

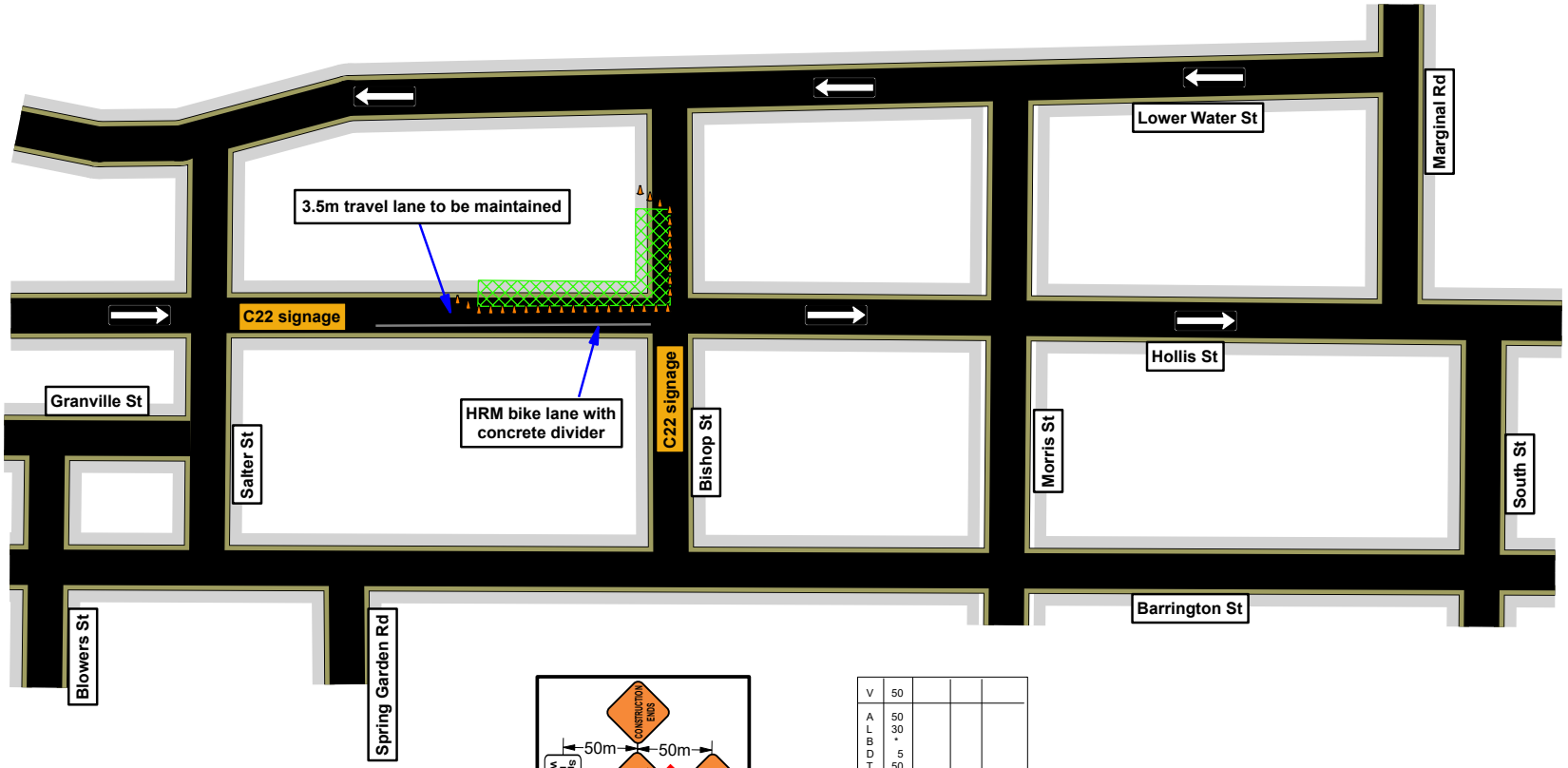
Date: 2020-11-16 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: Governor Plaza
Contractor: MARCO Contact: Zavin Graham, 902-877-4410

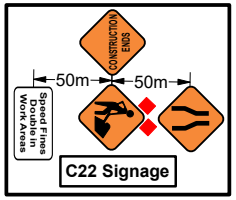
Comments:

Not to Scale
Application Guide C22
Barrier Removal Plan
See Pedestrian Management Plan for sidewalk closure details

Legend

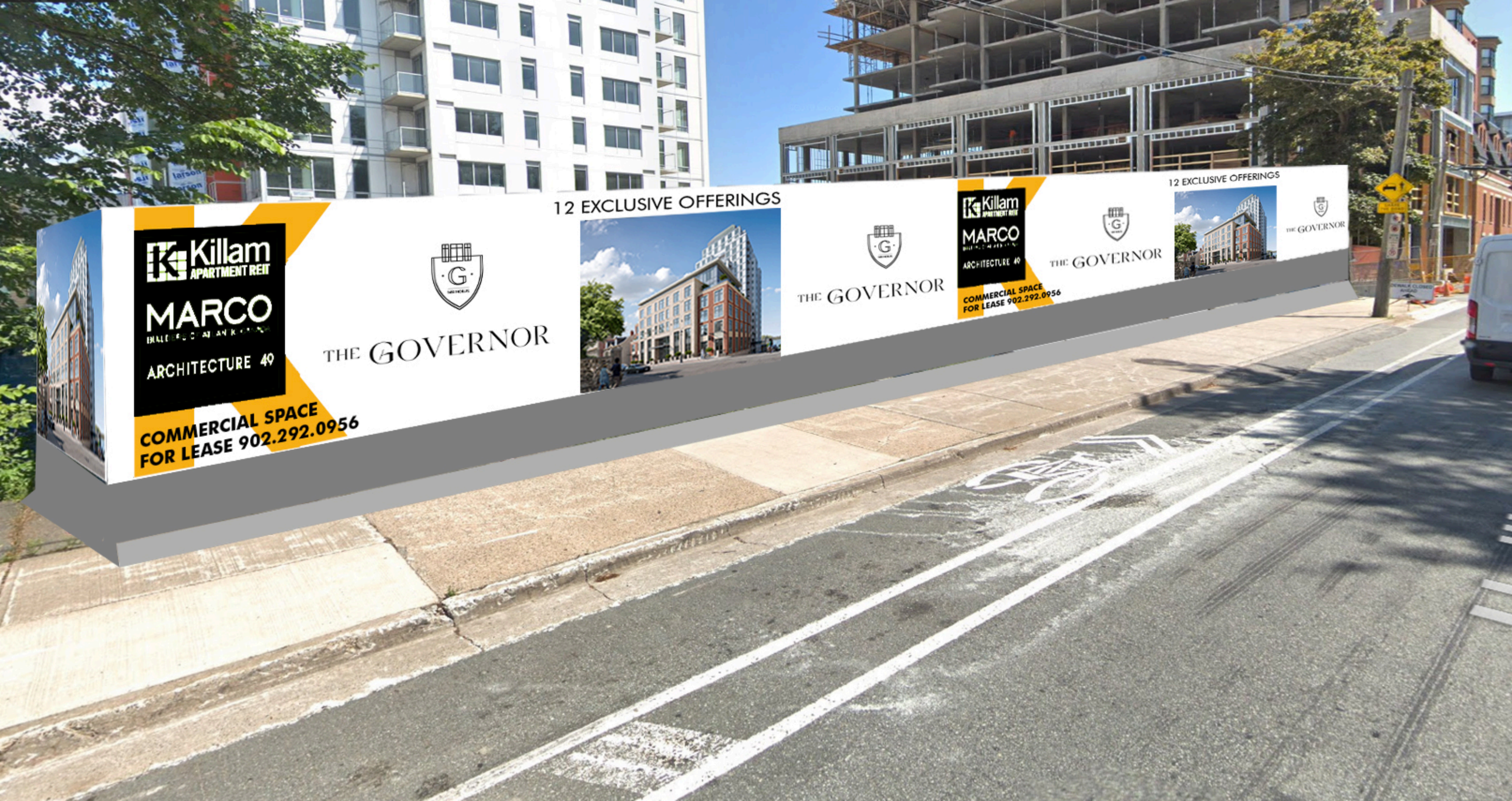
- Cone
- Work Area





V	50			
A	50			
L	30			
B	*			
D	5			
T	50			

V - Speed Zone km/h
A - Sign Spacing m
L - Taper Length m
B - Buffer Area Length m
D - Cone/Drum Spacing m
T - Length Between Tapers m


12 EXCLUSIVE OFFERINGS
Killam APARTMENT REIT
MARCO
ARCHITECTURE 49
THE GOVERNOR
COMMERCIAL SPACE
FOR LEASE 902.292.0956
12 EXCLUSIVE OFFERINGS
THE GOVERNOR
Killam APARTMENT REIT
MARCO
ARCHITECTURE 49
COMMERCIAL SPACE
FOR LEASE 902.292.0956
THE GOVERNOR
THE GOVERNOR

Appendix J – Community Engagement Package

Marco Maritimes Ltd.
135 Ilsley Avenue
Dartmouth, NS B3B 1T1
Phone: (902) 481-6500 Fax: (902) 481-6501

The Governor
Halifax, NS
Meeting with Residents of Area

DATE: November 13, 2019

ATTENDEES:

Name:	Company:	Phone:	Fax:	E-Mail:
James Bugden	Killam	902.453.3300	902.455.4525	jbugden@KillamREIT.com
Andrew Kent	Killam	902.453.3300	902.455.4525	akent@KillamREIT.com
Dan Sampson	Killam	902.453.3300	902.455.4525	dsampson@KillamREIT.com
Mike Christian	Architects 49	902-536-1239	902-429-2632	Michael.christian@architecture49.com
Martin Gillen	Marco	902-830-0727	902-481-6501	mgillen@marcogroup.ca
Zavin Graham	Marco	902-877-4410	902-481-6501	zgraham@marcogroup.ca
[redacted]	[redacted]			
[redacted]	[redacted]	[redacted]		[redacted]
Ivy Ho	Downtown Halifax			ivy@downtownhalifax.ca
[redacted]	[redacted]	[redacted]		[redacted]

Introductions

Item	Description
1	Martin introduced himself, Zavin, James and Michael to the residents in attendance.

1.0 General

Item	Description
1.1	Martin provide the timeline for construction stating that start up would be beginning of February 2020 and lasting for approximately 18 months. The building is a 6 storey residential building with units ranging in size from 1800 square feet to 3600 square feet.
1.2	The site will be barricaded on Hollis and Bishop. The Hollis side will have a 7 foot wide cross walk for pedestrians and there will also be a bike lane as it is a requirement to be maintained. The parking spots on the east side of Hollis will have to be removed. Bishop will be one way as the barricades will take half of the street and will go back to being a one way street from Hollis to the driveway for the Alexander. The following plans were provided for viewing to the attendees: - Haul Route showing the trucks entering site from the corner of Bishop and Hollis and exiting site on Bishop towards Lower Water Street. - Pedestrian management plan showing the pedestrian and bike lanes. - Renderings of the building compared to its surroundings.
1.3	Questions from the residents included: - Will there be any blasting? • No, there will be some rock removal along the Hollis side of the site but blasting will not be required. - What will happen to the traffic flow on Bishop? • The traffic will be the same as when the new build across the street was going up. Bishop will be one way heading towards Hollis per above and two way between the Alexander driveway and Lower Water Street. - Will the trades be parking on and around the site? • No, there is a Killam parking lot that will be used for trailers and parking just down Hollis.
1.4	Martin noted that no work would be carried out outside of the hours stated by the by-laws. No work will be completed between the hours of 7am and 5pm.
1.5	The Construction Management Plan was reviewed with the plans provided above as well as discussing that the barricades along Hollis and Bishop will be jersey barriers with plywood reaching a height of 8 feet. It was noted that all on site personnel will be required to complete a site safety orientation prior to starting work on site. All personal protective equipment must be worn at all times. Emergency Contact information will be posted outside the site and it will be locked down during off time.
1.6	This job will require a tower crane. Martin noted that nothing will be lifted over the outside of the site so that it is very tight. NAVCAN has also been contacted and has approved us for the required heights.
1.7	Environmental controls will also be in place to keep the area around the site clean and free of any debris.

Minutes taken by: Zavin Graham

Anticipated Activities Update- The Governor

Activities anticipated in the upcoming week **Date:**

Specific Date and Time	
Activity 1	
Purpose	
Description	
Shutdowns/Disruptions	
Noises Anticipated	
Dirt and Dust Triggers	

Specific Date and Time	
Activity 2	
Purpose	
Description	
Shutdowns/Disruptions	
Noises Anticipated	
Dirt and Dust Triggers	

Specific Date and Time	
Activity 3	
Purpose	
Description	
Shutdowns/Disruptions	
Noises Anticipated	
Dirt and Dust Triggers	

Specific Date and Time	
Activity 4	
Purpose	
Description	
Shutdowns/Disruptions	
Noises Anticipated	
Dirt and Dust Triggers	

THE GOVERNOR

1451 Hollis Street, Halifax, NS

January 2021 – June 2022

COMMERCIAL/RESIDENTIAL BUILDING

Owner:
Killam Apartment REIT
3700 Kempt Road, Halifax, NS B3K4X8
(902) 453 9000

Contractor:
Marco Group Limited
135 Ilsley Avenue, Dartmouth, NS B3B 1T1
(902) 481 6500

Emergency Contact/Site Superintendent: John Rhynold
jrhynold@marcogroup.ca 902-209-4399

Appendix K – NAVCAN Correspondence

October 24, 2019

Your file
Governor's Plaza - 1441 Hollis Street
Our file
19-3830

Mr. Zavin Graham
Marco Builders of Atlantic Canada
135 Ilsley Ave.
Dartmouth, NS
B3B 1T1

RE: Temporary Structure(s): Crane – 1441 Hollis Street, Halifax, NS
Within a 85' radius centered on (N44° 38' 36.9" W63° 34' 14" / 113' AGL / 150' AMSL)

Mr. Graham,

NAV CANADA has evaluated the captioned proposal and has no objection to the project as submitted.

NAV CANADA does not require notification of construction; however, if you should decide not to proceed with this project, please advise us accordingly so that we may formally close the file. If you have any questions, contact the Land Use Department by telephone at 1-866-577-0247 or e-mail at landuse@navcanada.ca.

NAV CANADA's land use evaluation is valid for a period of 12 months. Our assessment is limited to the impact of the proposed physical structure on the air navigation system and installations; it neither constitutes nor replaces any approvals or permits required by Transport Canada, other Federal Government departments, Provincial or Municipal land use authorities or any other agency from which approval is required. Innovation, Science and Economic Development Canada addresses any spectrum management issues that may arise from your proposal and consults with NAV CANADA Engineering as deemed necessary.

Yours truly,

Original Signed

Olivier Meier | NAV CANADA
Manager – AIM Land Use

cc ATLR - Atlantic Region, Transport Canada
CHQE - HALIFAX (QE II HEALTH SCIENCES CENTRE)(HELI)
CYAW - SHEARWATER(HELI)
CHS7 - HALIFAX (SOUTH END)(HELI)
CIW2 - HALIFAX (IWK HEALTH CENTRE)(HELI)

Appendix L – Rodent Control Plan

TARGET PEST CONTROL

PO Box 231
Lower Sackville, NS
B4C 2S9
service@targetpest.ca
www.targetpest.ca
(902) 817-9200

Dec 7th 2020

Att: Danny Luong C/O MARCO

Re: Governor on Hollis St. Halifax

As discussed we would set 10-12 outdoor bait stations (more if required) around the perimeter of the work site as required. They would be serviced monthly, as the development moves forward more devices would be installed in Parkade levels and throughout the structure.

There will be a service agreement written for the site which would remain in place between Marco group and Target Pest Control until the building is handed over to the property management company, at which time a new service agreement would be completed.

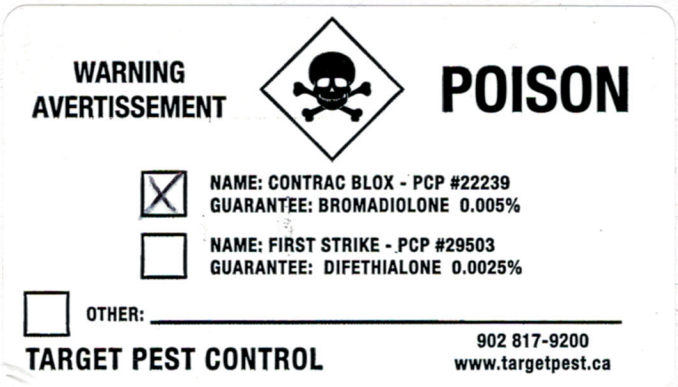
Please contact me if there are any further questions.

Provided below is the Rodenticide label, for the product that will be used in outdoor bait stations;

General Manager Target Pest Control

Original Signed

Stephen Taylor



CONTRAC BLOX

KILLS RATS & MICE

SOLID
Kills Warfarin Resistant Norway Rats

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

REGISTRATION NO.: **22239** PEST CONTROL PRODUCTS ACT

COMMERCIAL

WARNING  POISON

GUARANTEE
Bromadiolone……...0.005%
Contains Denatonium Benzoate
Warning, contains the allergens wheat, soya lecithin.
Contains calcium propionate at 0.375% as a preservative.

READ THE LABEL BEFORE USING
(see back panel for additional precautionary statements)

KEEP OUT OF REACH OF CHILDREN

Only to be used by certified pest control operators, farmers and persons authorized in government-approved pest control programs.

NET CONTENTS: 1.8 – 8.2 kg

Manufactured by: Bell Laboratories, Inc., 3699 Kinsman Blvd., Madison, WI 53704 USA
Tel: 608-241-0202

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN, PETS AND LIVESTOCK. May be harmful or fatal if swallowed or absorbed through the skin. Chemical-resistant gloves must be worn when handling product and when disposing of dead rodents, unconsumed bait and empty containers. Avoid contact with eyes, skin or clothing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Wash skin thoroughly with soap and water after handling. Wash contaminated clothing, separately

from other laundry, with soap and water before reuse. KEEP AWAY FROM FEED AND FOODSTUFFS.

All handlers must wear long-sleeved shirt and long pants, shoes plus socks, and chemical resistant gloves when handling this product.

FIRST AID:
If in eyes, hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.
If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.
If swallowed, call a poison control centre or doctor 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 a poison control centre or doctor. Do not give anything by mouth to an unconscious person.
For all cases of human ingestion, immediately notify a physician or poison control centre. If a pet or livestock poisoning is suspected, immediately contact a veterinarian. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION: Vitamin K_1 in the form of intramuscular or subcutaneous injections, or by oral ingestion are suggested remedial treatments for anticoagulant poisoning. The severity of the case measured by establishing prolonged prothrombin times (P.T.) will determine appropriate therapy. Monitoring P.T. will indicate the necessity of repeated treatments.

ENVIRONMENTAL HAZARDS: This product is toxic to fish and wildlife. Keep out of lakes, streams or ponds.

DIRECTIONS FOR USE: Use bait to control the Norway rat (*Rattus norvegicus*), Roof rat (*Rattus rattus*), and House mouse (*Mus musculus*) indoors and outdoors within 15 metres of buildings (dwellings, farm buildings, food service establishments (non-food areas), granary bins (empty), processing plants (feed, food, in non-food areas) and storage areas (non-food)). Rodenticide bait can be placed in tamper-resistant bait stations along the fence line of properties, outside of the 15-metre limit but within 100 metres of buildings, if the station is securely fastened (e.g. nailed down) to the fence or the ground.
Food Processing, Food Manufacturing, Food Storage and Food Service Areas:
For areas not directly related to food processing: Use only in non-food or non-feed area where feed, food, packaging and handling equipment are never opened or exposed. For areas where feed or food is processed, served, or stored: In meat and food processing plants (processing areas), use only when plant is not in operation. Remove or cover all food, packaging material and utensils before placing bait in baiting stations. Remove all baits and dead rodents before reuse of the plant (processing areas include storage and

service). Users should remove clothing immediately if pesticide gets inside. Then wash skin thoroughly and put on clean clothing

USE LIMITATIONS: Bait MUST be placed either in tamper-resistant bait stations or in locations not accessible to children, pets, livestock or non-target wildlife. DO NOT place bait in areas where there is a possibility of contaminating food or surfaces that come in direct contact with food.

Bait stations **(tier 3)** used for the placement of rodenticide bait indoors, in locations not accessible to pets or livestock must have the following characteristics: (1) be constructed of high-strength material (e.g., metal or injection molded plastic) and resistant to destruction by children: (2) have an entrance designed so that children cannot reach the bait; (3) have internal structure which prevents bait from being shaken loose; (4) have an access panel that fastens securely and locks (e.g., metal screw or padlock); and (5) bear the product name, active ingredient, guarantee, registration number, "WARNING POISON", and the skull and crossbones symbol.

Bait stations **(tier 2)** used for the placement of rodenticide bait indoors, in locations accessible to pets or livestock must have the following characteristics, in addition to those outlined above for tier 3 bait stations: (1) resistant to destruction by non-target animals; and (2) have an entrance designed so that non-target animals cannot reach bait.

Bait applied outdoors and above-ground MUST be placed in bait stations.

Bait stations **(tier 1)** used outdoors, above-ground, in locations accessible to children, pets and non-target wildlife must have the following characteristics, in addition to those outlined above for tier 2 and 3 bait stations: (1) be resistant to destruction or weakening by elements of typical non-catastrophic weather (such as, snow, rain, extremes of temperature and humidity, direct sunshine, etc.).

SELECTION OF TREATMENT AREAS: Determine areas where rats and/or mice will most likely find and consume the bait. Generally, these areas are along walls, by gnawed openings, in or beside burrows, in corners and concealed places, between floors and walls, or in locations where rodents or their signs have been observed. Remove as much food as possible.

APPLICATION DIRECTIONS:
RATS: Place 3 to 16 pieces of CONTRAC BLOX at intervals of 4.5 to 9 metres per placement. Maintain an uninterrupted supply of fresh bait for 10 days or until signs of rat activity cease.
HOUSE MICE: Place one piece of CONTRAC BLOX at intervals of 2.5 to 3.5 metres per placement. Two pieces may be needed at points of high mouse activity. Maintain an uninterrupted supply of fresh bait for 15 days or until signs of mouse activity cease.
RATS AND MICE: Replace contaminated or spoiled bait immediately. To prevent reinfestation, eliminate 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 bait as needed.

DISPOSAL: Do not reuse empty container. Dispose of unused or spoiled bait in accordance with local requirements. Follow provincial instructions for any required cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For more information on the disposal of unused, unwanted product and cleanup of spills, contact the provincial regulatory agency or the Manufacturer.
Rodent Disposal: Dispose of dead rodents in garbage or by burying.

STORAGE: Store in cool, dry place away from other chemicals and food or feed. Store product not in use, in original container, in a secure location inaccessible to children and non-target animals.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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