The Corporation of the Municipality of Brockton



By-Law 2022-037

Being a By-Law to Enter into a Site Plan Control Agreement Between the Corporation of the Municipality of Brockton and CONEX CANADA INC. and EXTRA REALTY LIMITED for 37 Yonge Street North, Walkerton.

Whereas the *Municipal Act, 2001, S.O. 2001, c. 25*, Section 5(1), as amended, provides that the powers of a municipal corporation are to be exercised by its council;

And Whereas the *Municipal Act, 2001, S.O. 2001, c. 25,* Section 5(3), as amended, provides that a municipal power, including a municipality's capacity rights, powers and privileges under section 9; shall be exercised by By-Law;

And Whereas subsection (7) of the said Section 41 authorizes the Corporation to require the Owner of the subject lands or its agent to enter into an Agreement with the Corporation

And Whereas the Council for The Corporation of the Municipality of Brockton deems it expedient to enter into a Site Plan Control Agreement with CONEX CANADA INC. and EXTRA REALTY LIMITED for a property located at 37 Yonge Street North, Walkerton, legally described as PT PARK LT 38 PL 162 PT 1 & 2 3R3215 T/W R367382, BROCKTON PIN 33196-0105 (LT);

Now Therefore the Council of the Corporation of the Municipality of Brockton Enacts as Follows:

- 1.0 That the Corporation of the Municipality of Brockton hereby enter into a Site Plan Control Agreement for a property located at 37 Yonge Street North, Walkerton, legally described as PT PARK LT 38 PL 162 PT 1 & 2 3R3215 T/W R367382, BROCKTON PIN 33196-0105 (LT) which shall detail certain terms and conditions of the proposed development by CONEX CANADA INC. and EXTRA REALTY LIMITED and this agreement, shall be attached hereto and marked as Schedule "A" and shall form an integral part of this by-law; and further that the Site Plan drawings be attached hereto and marked as Schedule "B" and form an integral part of this by-law; and further that the Stormwater Sewer Design Sheet by attached hereto and marked as Schedule "C" and form an integral part of this by-law; and further that the Functional Servicing Report be attached hereto and marked as Schedule "D" and form an integral part of this by-law;
- 2.0 That the Mayor and Director of Legislative and Legal Services (Clerk) are authorized to sign and execute the attached Site Plan Agreement as well as any other related documentation or any documentation required for the registration of the Site Plan Agreement on behalf of the Corporation.
- 3.0 That this By-Law shall come into effect upon final passage.
- 4.0 This By-Law may be cited as the "CONEX CANADA INC. Site Plan Control Agreement By-Law".

Read, Enacted, Signed and Sealed this 8th day of March, 2022.

Municipality of Brockton

Site Plan Agreement

This Agreement made this 8th day of March, 2022 and referred to as the

"Site Plan Agreement"

BETWEEN:

CONEX, CANADA INC. hereinafter referred to as the "Owner"

-and-

The Corporation of the Municipality of Brockton hereinafter referred to as the "Municipality"

-and-

EXTRA REALTY LIMITED

hereinafter referred to as the "Mortgagee"

Whereas the Owner represents and warrants that he is or will be the registered owner of the lands described in Schedule "A" attached hereto (hereinafter called the "subject lands") which are affected by this Agreement;

And Whereas in this Agreement "Owner" includes any subsequent Owner of the aforementioned subject lands;

And Whereas the Municipality has enacted a Site Plan Control By-Law pursuant to the provision of Section 41, of the Planning Act RSO. 1990, c.P.13 as amended ("Planning Act");

And Whereas the Owner wishes to undertake a development on the subject lands in accordance with a Site Plan attached as Schedule "B" hereto, hereinafter called the "Approved Site Plan";

And Whereas subsection (7) of the said Section 41 of the Act authorizes the Municipality to require the Owner of the subject lands to enter into an Agreement with the Municipality;

And Whereas the covenants in this Agreement are binding upon the Owner and when registered on title are binding upon all successor's on title;

And Whereas the Municipality is of the opinion that it would not be proper or in the public interest to permit development of the subject lands unless assurances are given by the Owner that matters referred to in this Agreement are carried out in the manner hereinafter set forth;

NOW THEREFORE THIS AGREEMENT WITNESSETH THAT in consideration of the mutual covenants, agreements, and promises herein contained and the sum of ONE (\$1.00) DOLLAR of lawful money of Canada now paid by each of the parties hereto to the other (the receipt and sufficiency of which is hereby acknowledged) and other good and valuable consideration and the mutual agreements contained therein, the parties hereto covenant and agree as follows:

1. Introduction

1.1. The Owner agrees to enter into a Site Plan Agreement with the Municipality, for the development of all buildings and structures located on the subject lands.

- 1.2. The Owner agrees to allow the Municipality at the Owner's expense to register or deposit this Agreement in the Registry Office for the County of Bruce against the subject lands.
- 1.3. Nothing in this Agreement shall relieve the Owner from complying with any other applicable Municipal requirements or by-laws.
- 1.4. The Owner hereby grants to the Municipality, its servants, agents and contractors, a license to enter the subject lands for the purposes of inspection of the works on the subject lands or for any purpose pursuant to the rights of the Municipality under this Agreement.

2. Schedules

The following Schedules are attached hereto and form part of this Agreement:

2.1.	SCHEDULE "A"	Being a description of the lands affected by this Agreement.
2.2.	SCHEDULE "B"	Being a solicitor's Certificate of Ownership of the subject lands.
2.3.	SCHEDULE "C"	Being a schedule of financial obligations of the Owner payable upon execution of this Agreement or as otherwise provided.
2.4.	SCHEDULE "D"	Being a schedule of letters of credit to be obtained and filed with the Municipality by the Owner, upon execution of this Agreement.
2.5.	SCHEDULE "E"	Being a schedule for the release/reduction of securities by the Municipality to the Owner.
2.6.	SCHEDULE "F"	Being references of the approved plans referred to in this Agreement.

3. Site Development

- 3.1. The Owner agrees to undertake development on the subject lands, at his sole expense, in conformity with the Approved Site Plan as referenced in Schedule "F" attached hereto.
- 3.2. At the sole discretion of the Municipality, if the Owner fails to obtain a building permit within one (1) year of signing this Agreement then the Agreement may be automatically terminated and the approval granted to the Approved Site Plan is rescinded.
- 3.3. At the sole discretion of the Municipality, if the Owner has taken out a building permit but has not completed construction within two years of the date of the permit, this Agreement may be automatically terminated and the approval granted to the Approved Site Plan is rescinded.
- 3.4. The Owner agrees to restore the municipal streets, to current standards, which have been disturbed or damaged during the course of construction, to the satisfaction of the Municipality.

4. Landscaping

- 4.1. The Owner shall, at their own expense, install landscaping as indicated on the Approved Site Plan.
- 4.2. The Owner agrees to erect all fences that are illustrated on the approved Site Plan prior to occupancy.

5. Outside Storage

5.1. The Owner agrees that any outside storage is located within prescribed areas as shown on the approved site plan. If and when outside storage is placed in locations beyond the approved locations, the Owner shall be considered to be in breach of this agreement and subject to penalties as prescribed in the Planning Act.

6. Refuse Storage

6.1. The Owner agrees to provide a central refuse storage collection area and this area shall be either within a building or in a location shown on the approved site plan.

7. Loading, Parking and Driveways

- 7.1. The Owner agrees that any internal driveways which are necessary for and designated as a fire route shall be designed so as to carry the weight of the Municipality's firefighting equipment.
- 7.2. The Owner agrees that the surface treatment of any and all loading, parking area and driveways shall be constructed as set out on the Approved Site Plan. Surface treatment shall be adequately maintained and treated to prevent the raising of dust or loose particles and shall include provisions for adequate drainage facilities.
- 7.3. The Owner agrees that parking spaces shall be provided on the subject lands as indicated on the Approved Site Plan.
- 7.4. The Owner shall be required to provide and maintain accessible parking as per any Municipality By-Law in place relating thereto and any requirements as applies to the Highway Traffic Act.

8. Water and Sewer Services

- 8.1. The Owner shall install and connect water, storm and sanitary sewer services, as shown on the Approved Site Plan and as directed by the Chief Building Official and the Municipal Engineers. Said connections shall be at the sole expense of the Owner, subject to the required fees.
- 8.2. The parties hereto acknowledge that it is not the present intention of the Municipality to turn off the water at the watermain with respect to any existing private water service connections not utilized by the Owner; PROVIDED however that the Municipality reserves the right at any time to turn off the water at the cost of the Owner. In the meantime, the Owner for and on behalf of themselves and their heirs, executors, administrators, and assigns and their respective servants, workmen and agents, covenant and agree with the Municipality that they will not cause any damage directly or indirectly to any such unused watermain private service connections, including valve boxes and existing fire hydrants located on the subject lands of the Owner and in the event of any damage so caused by them or any of them, the Owner shall bear the cost of any repairs and/or replacements required by reason of such damage.
- 8.3. Disposal of waste water shall be in compliance with the requirements of the Ministry of the Environment and the Municipality's Sewer Use By-Law.

9. Drainage

- 9.1. The Owner agrees that surface and roof drainage systems shall be designed and constructed to the satisfaction of the Municipality and as shown on the Approved Site Plan. Water shall not be directed onto any adjoining properties without the express approval of the so affected property owner within a registered drainage easement.
- 9.2. As specified within the Con Ex Canada Inc. Functional Servicing Report dated October 2021 prepared by Cobide Engineering Inc. an oil grit separator is to be

installed in the location shown on the approved site plans as referenced in Schedule "F" to meet the recommended stormwater management quality control criteria. The oil grit separator shall be a 1200mm diameter Hydro First Defense, model FD-4HC oil grit separator. The approved oil grit separator shall not be changed from that provided without a submission by the developer's engineer and the consent of the Municipality.

- 9.3. The Owner agrees to submit a Lot Grading and Drainage Plan, prepared by a Professional Engineer, with the Approved Site Plan, illustrating how stormwater and surface water will be detained on the site and discharged to the municipal drainage system at a rate no higher than the pre-development flows.
- 9.4. Further the Owner shall retain a Professional Engineer to provide general reviews confirming that all Work has been constructed in general conformity with the Approved Site Plan and in accordance with all applicable law.

10. Hydro Connections

10.1. The Owner agrees that the electrical service from the public street or other distribution point, to the building shall be underground and that there will be no overhead wires leading to the buildings.

11. Signs

11.1. The Owner shall indicate the location and size of any and all proposed signs on the approved Site Plan. It is recognized that the content of the sign may change as building occupancy changes.

12. Lighting

12.1 The Owner agrees that all lighting shall be constructed as shown on the Approved Site Plan and shall be oriented and its intensity so controlled to prevent glare on adjacent roadways and properties. All parking lot lighting shall also comply with the Municipality's Dark Sky resolution.

13. External Works

- 13.1. The Owner covenants and agrees to provide, construct, install and pay for the external municipal services to the standards and specifications required by the Municipality as shown on the Approved Site Plan which include but are not limited to:
 - a) Water, storm and sanitary sewer laterals to the property line of the subject lands;
 - b) paved driveway approaches; and
 - c) extension of municipal sidewalks.
- 13.2. The Owner covenants and agrees to construct or install all external works, services and facilities to the satisfaction of the Municipality, in accordance with all municipal specifications and in a good and workmanlike manner. The Owner guarantees the workmanship and materials for the construction and installation of such external works, services and facilities and to main same free of defects for a period of one (1) years from the date of certification of substantial completion. The Owner covenants and agrees that it will promptly and properly repair all defects in such external works, services or facilities to the complete satisfaction of the Municipality.
- 13.3. The Owner acknowledges that any action taken by the Municipality or by its employees, agents or contractors relating to the removal of snow and ice, or sanding, or cleaning of any roads, or permitting the connection of additional services to any of the external works, services or facilities herein required to be

constructed or installed, during the guarantee and maintenance period is being done without prejudice to the Municipality's right to enforce and guarantee and maintenance provisions of this Agreement.

14. Phasing

14.1. The Owner covenants and agrees to adhere to the Phasing Plan of the Approved Site Pan in constructing the proposed development and the approved structure(s) contemplated under this Agreement. The Owner acknowledges that each development phase shall be subject to the approval of the Chief Building Official prior to the issuance of any building permits for any phase.

Section 14. Phasing Intentionally Deleted

15. Easements, Municipal or Otherwise

15.1. The Owner, shall at his/her own expense cause to be prepared, granted and registered the following easements:

_____ (insert description of any necessary easements.)

Such other easements as may reasonably requested by the Municipality for future municipal purposes, provided that the Municipality will pay the cost of surveying and preparing any easement agreements so requested.

15.2. The Municipality and its Chief Building Official make no representations and warranties with respect to any existing easements affecting the subject property and their impact on the Approved Site Plan, this Agreement or any construction undertaken by the Owner. The Owner assumes all risks associated with same.

16. Maintenance

- 16.1. The Owner shall:
 - a) Complete the works and other facilities required on the Approved Site Plan and this Agreement at their sole expense and to the satisfaction of the Municipality;
 - b) Maintain those works and facilities located on the subject lands to the satisfaction of the Municipality at the sole risk and expense of the Owner; and
 - c) At all times in the future, provide to an acceptable standard removal of snow and ice from access ramps and driveways, parking areas, loading areas and walkways for the protection of people and property and to afford safe access to the subject lands.
- 16.2. Without limiting the generality of paragraph 16.1 (b), the Owner shall:
 - a) Maintain all hedges, trees, shrubs, and other ground cover in a healthy state;
 - b) Keep any works and facilities shown on the plan with respect to landscaping in good repair;
 - c) Refrain from doing anything that will have a detrimental effect on adjoining properties; and
 - d) Operate, monitor and maintain on site oil interceptors in accordance with standards and recommendations of the manufacturer. Oil Interceptor Inspection and Maintenance logs are to be made available to the Municipality upon notice.

17. Site Plan Inspection and Occupancy

- 17.1. The Owner agrees that prior to occupancy of any building on the subject land, the Owner shall request a Site Plan Inspection conducted by the municipality. An agent or employee of the municipality shall inspect the site and note any deficiency associated with the project that requires remedy prior to occupancy being granted. All deficiencies shall be remedied prior to the refund of the Performance Deposit. Deficiencies shall be considered to be a breach of this Agreement.
- 17.2. The Owner shall not occupy nor shall it allow anyone else to occupy any building or part thereof for which building permits have been issued until all works required under this Agreement are completed in accordance with the requirements of the Ontario Building Code, the applicable zoning by-law and any other municipal by-laws, and that the internal water distribution and sanitary sewer collection have been tested and approved and are operating in accordance with the conditions established by the Municipality.
- 17.3. In the event that a building or part thereof is occupied other than in accordance with the provisions of section 17.2 above, the Municipality shall be entitled to obtain an Order from a court of competent jurisdiction prohibiting the occupancy of any building or part thereof until such time as the terms of this Agreement have been fully complied with, and this Agreement shall constitute a full estoppel to any opposition brought by the Owner.

18. Professional Engineer

- 18.1. The Owner covenants and agrees to retain a Professional Engineer who holds a Certificate of Authorization for municipal engineering applications from the Association of Professional Engineers of Ontario to prepare the design of lot grading and drainage, site and external servicing plans, municipal service connection designs, and lot grading and drainage reports that are to be submitted to the Chief Building Officer for his/her approval.
- 18.2. The Owner's Professional Engineer will be required to inspect and certify to Chief Building Officer that all internal and external services, lot grading and drainage requirements have been constructed in accordance with the approved Engineering Drawings and reports, prior to the release of performance deposit held for engineering-related works. The certificate, or certificates, shall be in a format acceptable to the Chief Building Officer. The Chief Building Officer may, upon pre-qualification of such, accept the use of other qualified professionals for certain components of the design, inspection and certification process.

19. Release and Indemnification

- 19.1. The Owner agrees that the Municipality shall not be liable to compensate the Owner, occupant, or any other person having an interest in the Subject Land by reason of anything done by or on behalf of the Municipality under this Agreement.
- 19.2. The Owner hereby covenants and agrees to waive any right or entitlement it may have to any action, cause of action, losses, liens, damages, suits, judgments, orders, awards, claims or demands whatsoever against the Municipality, its Council, employees, workers, agents, contractors, and consultants, and further covenants and agrees to indemnify and save harmless the Municipality, its Council, employees, workers, agents, contractors, and consultants from and against all actions, causes of action, losses, liens, damages, suits, judgments, orders, awards, claims and demands whatsoever, whether the same shall be with or without merit, and from all costs to which the Municipality, its Council, employees, workers, and consultants, may be put in defending or settling any such action, causes of actions, suits, claims or demands, which may arise either directly or indirectly by reason of, or as a consequence of, or in any way related to the Owner developing the Subject Land, including without limitation, the installation, maintenance, repair and/or operation of any facilities therein.

- 19.3. Without limiting that set out above, the Owner shall at all times indemnify and save harmless the Municipality of and from all losses, costs and damages which the Municipality may suffer or be put to, for or by reason of, or on account of, the construction, maintenance or existence of pavements, curbs, plantings, and other improvements upon the road allowances where the same are required by this Agreement to be provided by or at the expense of the Owner and such indemnity shall constitute a priority lien and charge upon the subject lands, and shall be added to the assessment roll as unpaid taxes and may be collected in a similar manner as unpaid Municipal taxes.
- 19.4. This Agreement and the provisions hereof do not give to the Owner or any person acquiring an interest in said lands (each hereinafter in this paragraph called "such persons") any rights against the Municipality with respect to the failure of any such person to perform or fully perform any obligation under this Agreement, or the failure of the Municipality to force any such person to perform or fully perform any such person in the performance of the said obligation. All facilities and matters required by this Agreement shall be provided by the Owner to the satisfaction of and at no expense to the Municipality, and shall be maintained to the satisfaction of the Municipality at the sole risk and expense of the Owner, and in default thereof and without limiting other remedies to the Municipality the provisions of Section 446 of the Municipal Act 2001, as amended, shall apply.
- 19.5. If any matter or thing required to be done by this Agreement is not done in accordance with the provisions of this Agreement and such default continues, in addition to other remedies available to it, the Municipality may direct that such matter or thing shall be done at the expense of the Owner, and the Municipality may recover at the expense incurred in doing it by action, the Owner hereby authorizes the Municipality to enter upon the said subject lands and do such matter or things.

20. Severability

20.1. The clauses of this Agreement shall be deemed independent and the striking down or invalidity of any one or more of the clauses does not invalidate this Agreement or the remaining clauses.

21. Performance Deposit

- 21.1. Prior to obtaining a Building Permit, the Owner agrees to provide the Municipality with a Performance Deposit in the amount of \$11,089.67. The purpose of this security is to:
 - a) Ensure that the Owner constructs the project in compliance with the Approved Site Plan;
 - b) Ensure the provision of all matters and facilities required pursuant to this Agreement;
 - c) Ensure other applicable municipal requirements shall be met within the prescribed period of time;
 - d) To be used to cover the costs of any damage to municipal property during the course of construction.
- 21.2. The Performance Deposit shall be determined by the Municipality based upon a formula of 1% of the value of the project's construction (including land). The minimum Performance Deposit shall be \$3,000 and the maximum Performance Deposit shall be \$20,000. The Performance Deposit shall be in the form of cash, Certified Cheque, or by Irrevocable Letter of Credit.
- 21.3. The Performance Deposit shall be refunded to the Owner without interest upon as per Schedule "D" of this agreement.

22. Additional Permits

22.1. The Owner acknowledges that the Municipality by approving the Site Plans, and entering into this Agreement, does not relieve the Owner from the requirements of obtaining any permit or license that may be required by the Municipality, the County of Bruce or any other agency, including any provincially appointed regulatory body or Ministry, before the proposed development can proceed.

23. Termination of Agreement

- 23.1. If this Agreement is automatically terminated, the Municipality is deemed to have withdrawn its consent to the proposed development and a formal notice of termination stipulating all development is to cease may be issued until the Owner has entered into a further Site Plan Agreement. No liability or other duty required of the Municipality under this Agreement shall be imposed on the Municipality should this Agreement be terminated. The Municipality is under no obligation to return any money paid under this Agreement.
- 23.2. Notwithstanding anything contained herein to the contrary, and subject to approval by the Municipality, if the Owner is delayed in substantially completing the construction of any work or facility required by this Agreement by any act beyond the Owner's reasonable control, the time for completion shall be extended by a period of time equal to such delay.

24. Estoppel

24.1. The Owner further covenants and agrees that it will not call into question directly or indirectly in any proceeding whatsoever in law or in equity or before any administrative tribunal, the right of the Municipality to enter into this Agreement and to enforce each and every term, covenant and condition herein contained, and this paragraph may be pleaded as an estoppel against the Owner in any such proceeding.

25. Mortgagee's Covenants

25.1. The Mortgagee hereby postpones its interest as Mortgagee under a mortgage registered in the Bruce County Land Registry Office on the 4th day of October as Instrument Number BR174939 to the terms of this Agreement.

The Mortgagee shall not be required, in its capacity as mortgagee:

To install any works and services that have not been installed by the Owner;

To complete the installation of any works and services that the Owner has started to install, but not completed, or

To correct any deficiencies in works and services improperly installed by the Owner.

26. Notices

26.1. Any notices required or permitted to be given under this Agreement shall be in writing and may be served either personally, by email or by mailing such notice by registered mail postage prepaid or if the postal service has been disrupted for any reason, by delivering such notice by a prepaid courier service as follows:

The Municipality of Brockton c/o Clerk 100 Scott Street P.O. Box 68 WALKERTON, Ontario N0G 2V0 Mario Garcia 113 William Street Walkerton, Ontario N0G 2V0 marioggarcia@live.com 26.2. If any notice is mailed by registered mail, postage prepaid or sent by prepaid courier service as aforesaid, it shall be deemed to have been received by the party to whom it was mailed or sent on the fifth day following the day upon which it was received by one of Her Majesty's post offices or is sent by courier, on the second day after which it was delivered to the courier service unless the second day ends on a Saturday, Sunday or legal holiday, in which case those days are not included in computing the two day period.

27. Agreement Runs with Land

27.1. This Agreement shall inure to the benefit of the Municipality, its successors and assigns. The benefits and the burden of the covenants, agreements, conditions and undertakings herein contained shall run with the land and are binding upon the land and upon the Owner and its successors and assigns.

This Agreement is also binding upon the Mortgagee and its respective heirs, executors, administrators, successors and assigns.

28. Municipal Expenses

- 28.1. The Owner shall pay to the Municipality the costs for all outside technical, professional and legal advice that the Municipality has incurred in order to approve the development covered by this agreement. These expenses do not include technical services rendered by full time municipal staff. The Financial Obligations are outlined in Schedule "C" of this Agreement. Securities and Performance deposits are outlined in Schedule "D" of this Agreement.
- 28.2. The Owner agrees to pay to the Municipality by cash or Certified Cheque, a contribution for the Municipality's municipal administrative services in the sum of \$0.10 per square foot with a minimum fee of \$500.00 as per the Fee By-Law of the Municipality based upon the building's foot print for all commercial and industrial developments. This fee will only be charged on the proposed building(s). Staged development will be charged the necessary fees as per the Fee By-Law of the Municipality as amended, once future development begins.
- 28.3. The total contribution for this development, based on a total building area of 18,568 square feet will be \$1856.80 and shall be payable on execution of this Agreement and before the issuance of a building permit.

29. Miscellaneous provisions

- 29.1. In this Agreement, words importing the singular number include the plural and vice versa and words importing the masculine gender include the feminine and neuter genders.
- 29.2. The terms of this Agreement may be amended, altered, substituted, deleted, replaced, or added to only if such modification is in writing, signed by both parties and expressly stated to be a modification of this Agreement.
- 29.3. Headings in this Agreement shall not to be considered part of this Agreement and are included solely for the convenience of reference. They are not intended to be full or accurate descriptions of the contents thereof.
- 29.4. Should any provisions of this agreement require judicial interpretation, mediation or arbitration, it is agreed that the court, mediator or arbitrator interpreting or construing the same shall not apply a presumption that the terms thereof shall be more strictly construed against one Party by reason of the rule of construction that a document is to be construed more strictly against the Party who itself or through its agent prepared the same, it being agreed that both Parties, directly or through their agents have participated in the preparation of this agreement.
- 29.5. This Agreement shall be construed in accordance with and governed by the laws of the Province of Ontario.

29.6. The Owner acknowledges that the Owner has been advised to consult a lawyer before executing this Agreement. The Owner represents and warrants that the Owner has either obtained independent legal advice from the Owner's own lawyer with respect to the terms of this Agreement prior to execution or declined seeking such independent legal advice. The Owner represents and warrants that the Owner has read this Agreement and understands the terms and conditions and the Owner's rights and obligations under this Agreement and agrees to be bound by it.

This Section Intentionally Left Blank

Signed, Sealed and Delivered	
In the Presence	

Owner

CONEX, CANADA INC.

Print Name: ____

I have authority to bind the Corporation

The Municipality of the Municipality of Brockton

Dated:

Per:

Per: _____ Chris Peabody – Mayor

Dated:		
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Fiona Hamilton – Clerk

We have the authority to bind the Municipality.

Schedule "A" to Site Plan Agreement

Description of Lands

Being: PT PARK LT 38 PL 162 PT 1 & 2 3R3215 T/W R367382; BROCKTON PIN 33196-0105 (LT)

Schedule "B" to Site Plan Agreement

Solicitor's Certificate of Ownership

I [Name of Solicitor]

a Solicitor of Ontario, do hereby certify that [Name of Owner(s)] is/are the sole Owners(s) in fee simple of all land described in Schedule "A" to the Site Plan Control Agreement herein referred to.

I further certify that there are no mortgages or other encumbrances upon said lands or any part thereof save and except the following:

[list of encumbrances]

I further certify that [Name of Owner(s)]

Is/are the sole Owner(s) in fee simple of all land to be conveyed to the Municipality pursuant to the said site Plan Control Agreement. All easements, licenses or rights-of-way to be conveyed to the Municipality will be so conveyed with the consent of all mortgages or other encumbrancers.

This certificate is given by me to the Municipality for the purpose of having the said Municipality act in reliance on it in entering into this Site Plan Control Agreement.

DATED at ______ this _____ day of _____ 201_.

TO: [name of Municipality]

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Schedule "C" to Site Plan Agreement

List of Financial Obligations to the Owner(s)

1. Site Plan Agreement Registration/Preparation - Invoiced for Actual Cost – (Refundable Deposit \$1,000.00)

3. Site Plan Agreement Administration Fee - <u>\$1.856.80</u>

TOTAL

<u>\$1970.80</u>

Schedule "D" to Site Plan Agreement

Security/Letter of Credit

	SECURED WORKS	AMOUNT
1.	Performance Deposit	\$11,089.67.00
2.	Site Plan Control Agreement Registration/Preparation Deposit	\$1000.00
	TOTAL	\$12,089.67

Schedule "E" to Site Plan Agreement

Release of Security

Application for Reduction of Securities

Prior to the release of any security held by the Municipality for the works, facilities and matters set out in this Agreement, the Owner must supply the Municipality with the following documentation:

- a) formal request for reduction/release;
- b) consultant's certificate confirming compliance with plans;
- c) as-constructed drawings;

Release of Securities

(a) <u>Release of Performance Deposit</u>

Upon the receipt by the Municipality of all the documents identified above works, and satisfaction to the Municipality that the work has been completed in conformity with the approved plans, the Municipality shall release the Performance Deposit.

(b) Release of Site Plan Control Agreement Registration/Preparation Deposit

Upon payment of the invoice for the cost incurred for the registration of the Site Plan Control Agreement in the Registry Office for the County of Bruce against the subject lands, the Municipality shall release the Site Plan Control Agreement/Preparation Deposit.

Schedule "F" to Site Plan Agreement

APPROVED PLANS

The following Plans and Reports for the River Breeze Townhouse Development form part of this Site Plan Agreement and are on file at the Clerk's Office for the Municipality.

01892 River Breeze (37 Yonge St) Second Submission 2022-02-15 prepared by Cobide Engineering Inc.

- 1. SHEET NO. 01892-EX1 EXISTING CONDITIONS AND REMOVALS PLAN
- 2. SHEET NO. 01892-SP1 DEVELOPMENT SITE PLAN
- 3. SHEET NO. 01892-SS1 SITE SERVICING PLAN
- 4. SHEET NO. 01892-SGRT1 SITE GRADING PLAN
- 5. SHEET NO. 01892-STM1 STORM SEWER CATCHMENT AREAS
- 6. SHEET NO. 01892-DET1 CHAMBER/MISCELLANEOUS DETAILS I
- 7. SHEET NO. 01892-DET2 MISCELLANEOUS DETAILS II
- 8. SHEET NO. 01892-DET3 MISCELLANEOUS DETAILS III

Report Titled – 2022-02-15 Yonge St FSR 01892 prepared by Cobide Engineering Inc. Report Titled – 01892 Storm Sewer Design prepared by Cobide Engineering Inc.

2021-11-02-ARCHITECTURAL PLANS prepared by CONEX titled "River Breeze"

- 1. A 0.1 COVER SHEET
- 2. SP 1.1 PROPOSED SITE PLAN & STATISTICS
- 3. SP1.2 PROPOSED SITE PLAN
- 4. SP1.3 PROPOSED CONDOMINIUM PLAN
- 5. A 1.1.0 BLOCK 1 WALK-OUT BASEMENT
- 6. A 1.1.1 BLOCK 1 FIRST FLOOR PLAN
- 7. A.1.1.2 BLOCK 1 SECOND FLOOR PLAN
- 8. A 1.1.3 BLOCK 1 ROOF PLAN
- 9. A 1.1 BLOCK 1 PROPOSED FOUNDATION PLAN
- 10. A..2.1.0 BLOCK 1 EXTERIOR ELEVATIONS
- 11. A 5.1.0 RENDERS

The Owner agrees to construct all buildings, structures, works, services and facilities required under this Agreement in accordance with the above referenced Plans.



37 YONGE STREET NORTH

WALKERTON, ONTARIO, N0G2V0

SITE PLAN





A 0.1 SP 1.1 SP 1.2 SP 1.3 A 1.1.0 A 1.1.1 A 1.1.2 A 2.1.0 A 5.1.1 EX 1 SP 1 SS 1 SGR 1 STM 1 DET 1

DET 2 DET 3

CIVIL ENGINEERING

COBIDE ENGINEERING

TRAVIS BURNSIDE PH: (519) 506 5959 TBURNSIDE@COBIDEENG.COM

AREA OF WORK SCALE 1/64" = 1'-00"



Wal	Kerton		37	111		112 08 4 Valley
		ann-ah-s	33 37 27 51		32 26 24	
5		<45	r t	Yo	18	111-
1.	GROSS SITE AR GROSS BUILDIN TOWNHOUSES	EA: G AREA:	– SITE D 6,808 MT2	ATA - (73,286 SQ 1.68 ACRES	18 .FT.)	MF
1. 2.	GROSS SITE AR GROSS BUILDIN TOWNHOUSES BLOCK BLOCK 1 U SUBTOTAL BLOCK 2 U SUBTOTAL BLOCK 3 U SUBTOTAL TOTAL	EA: G AREA: JNIT 1 JNIT 2 JNIT 2 JNIT 3 3 JNIT 4 JNIT 5 JNIT 5 JNIT 6 3 JNIT 7 JNIT 7	- SITE D 6,808 MT2 SQ.M. 195.27 SQ.M. 184.70 SQ.M. 195.01 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.27 SQ.M.	ATA - (73,286 SQ 1.68 ACRES SQ. 2.7 1.6 2.0 6. 2.1 5 2.0 6. 2.1 5 2.0 6. 2.1 5 2.0 6. 2.1 5 2.0 6. 2.1 5 2.0 6. 2.1 5 2.0 6. 2.1 5 2.0 6. 5 2.1 6. 5 2.1 5 2.0 6. 5 2.1 5 5 2.0 5 5 2.0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	78 .FT.) .FT. .FT. .FT. .FT. .FT. .FT.	
1. 2.	GROSS SITE AR GROSS BUILDIN TOWNHOUSES BLOCK BLOCK 1 L SUBTOTAL BLOCK 2 L SUBTOTAL BLOCK 3 L SUBTOTAL SUBTOTAL TOTAL	PEA: G AREA: JNIT 1 JNIT 2 JNIT 3 JNIT 3 JNIT 4 JNIT 5 JNIT 6 JNIT 6 JNIT 7 JNIT 8 JNIT 9 3 PUNITS WINITS	SITE D 6,808 MT2 SQ.M. 195.27 SQ.M. 184.70 SQ.M. 195.01 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 1,724.94 SQ.M. PAI	ATA - (73,286 SQ 1,68 ACRES SQ. 2,7 1,5 2,0 6, 2,7 1,5 2,0 6, 2,7 1,5 2,0 6, 2,7 1,5 2,0 6, 2,7 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 1,5 1,5 1,5 2,0 1,5 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 1,5 2,0 1,5 2,0 1,5 2,0 1,5 2,0 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5	78 .FT.) .FT. 101 SQ. FT. 288 SQ. FT. 299 SQ. FT. 189 SQ. FT. 101 SQ. FT. 103 SQ. FT. 189 SQ. FT. 189 SQ. FT. 189 SQ. FT. 104 SQ. FT. 105 SQ. FT. 1	PROVIDED PARKING
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1. 2. 3. 4. ITEM 1 2 3	GROSS SITE AR GROSS BUILDIN TOWNHOUSES BLOCK 1 L SUBTOTAL BLOCK 2 L SUBTOTAL BLOCK 3 L SUBTOTAL SUBTOTAL SUBTOTAL FOTAL SUBTOTAL SUBTOTAL SUBTOTAL SUBTOTAL SUBTOTAL SUBTOTAL SUBTOTAL SUBTOTAL	IEA: G AREA: JNIT 1 JNIT 2 JNIT 3 3 JNIT 4 JNIT 5 JNIT 5 JNIT 6 JNIT 7 JNIT 8 JNIT 7 JNIT 8 JNIT 8 JNIT 9 JNIT 9 3 P UNITS UNITS KING: UNITS JSES SQ. M)	- SITE D 6,808 MT2 SQ.M. 195.27 SQ.M. 184.70 SQ.M. 195.01 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.27 SQ.M. 195	ATA - (73,286 SQ 1.68 ACRES SQ. 2.7 1.68 2.0 6. 2.7 1.5 2.0 6. 2.0 6. 2.0 6. 2.7 1.5 2.0 6. 2.0 6. 2.7 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	78 2.FT.) 3. 0.1 SQ. FT. 988 99 99 901 902 903 904 905 905 907 908 909 909 909 909 909 909 909 909 909 909 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 <t< td=""><td>PROVIDED PARKING 23 UNITS PROPOSED 10 7 (SQ. M)</td></t<>	PROVIDED PARKING 23 UNITS PROPOSED 10 7 (SQ. M)
2. 1. 2.	GROSS SITE AR GROSS BUILDIN TOWNHOUSES BLOCK 1 L SUBTOTAL BLOCK 2 L SUBTOTAL BLOCK 3 L SUBTOTAL TOTAL SUBTOTAL FROVIDED PARI PROVIDED PARI ZONES PROPOSED 1 LOT AREA (MINIMUM	IEA: GAREA: JNIT 1 JNIT 2 JNIT 3 3 JNIT 5 JNIT 5 JNIT 6 3 JNIT 7 JNIT 6 JNIT 8 JNIT 9 JNIT 9 3 DUNITS UNITS VINIT 8 JNIT 9 JNIT 9 3 DUNITS UNITS VINIT 9 3 JUNIT 9 9	- SITE D 6,808 MT2 SQ.M. 195.27 SQ.M. 184.70 SQ.M. 195.01 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.27 SQ.M. 574.98 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 1,724.94 SQ.M. 23 SPACES REQUIRED R3 – 10 JRBAN RESIDENTIAL M 155 (SQ. M) 15 MTS (CLUSTER	ATA - (73,286 SQ 1.68 ACRES SQ. 2.7 1.68 2.0 6. 2.7 1.5 2.0 6. 2.1 5 2.0 6. 2.7 1.5 2.0 6. 2.7 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.2 7.6 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	78 FT. FT. <td>PROVIDED PARKING 23 UNITS PROPOSED 10 7 (SQ. M) 3 MTS (CLUSTER)</td>	PROVIDED PARKING 23 UNITS PROPOSED 10 7 (SQ. M) 3 MTS (CLUSTER)
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1. 2. 3. 4. 1TEM 1 2 3 4 5 6	GROSS SITE AR GROSS BUILDIN TOWNHOUSES BLOCK BLOCK 1 L SUBTOTAL BLOCK 2 L SUBTOTAL BLOCK 3 L SUBTOTAL TOTAL PROVIDED PARI ZONES PROPOSED 1 LOT AREA (MINIMUM FRO	IEA: G G AREA: JNIT 1 JNIT 2 JNIT 3 JNIT 4 JNIT 5 JNIT 6 3 3 JNIT 7 JNIT 8 JNIT 9 JNIT 8 JNIT 9 JNIT 8 JNIT 9 JNIT 8 JNIT 9 JNIT 9 JNIT 8 JNIT 9 JNIT 9 JNIT 9 JNITS 9 KING: 10 JSES 10 SQ. M) 10 JNT YARD: 10 RIOR SIDE YARD: 10	SITE D 6,808 MT2 SQ.M. 195.27 SQ.M. 184.70 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.027 SQ.M. 195.01 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 1724.98 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,723 SPACES REOUIRED R3 – 10 JRBAN RESIDENTIAL N 155 (SQ. M) 15 MTS. 7.5 MTS. 7.5 MTS. 7.5 MTS.	ATA - (73,286 SQ 1,68 ACRES SQ. 2,7 1,68 2,0 6, 2,7 1,5 2,0 6, 2,7 1,5 2,0 6, 2,7 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 6, 1,5 2,0 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5	78 FT. 101 SQ. FT. 188 SQ. FT. 199 SQ. FT. 189 SQ. FT. 101 SQ. FT. 103 SQ. FT. 104 SQ. FT. 105 SQ. FT. 106 SQ. FT. 107 SQ. FT. 108 SQ. FT. 1099 SQ. FT. 101 SQ. FT. 103 SQ. FT. 104 SQ. FT. 105 SQ. FT. 106 SQ. FT. 107 SQ. FT. 108 SQ. FT. 101 SQ. FT. 102 FT. 103 SQ. FT. 104 SQ. FT. 105 R3 – 119.40 7.50 1 7.5 7.5 M	PROVIDED PARKING 23 UNITS PROPOSED 10 7 (SQ. M) 5 MTS (CLUSTER) MTS. TS
1. 2. 3. 4. 1TEM 1 2 3 4 5 6 7	GROSS SITE AR GROSS BUILDIN TOWNHOUSES BLOCK 1 LL SUBTOTAL BLOCK 2 LL SUBTOTAL BLOCK 3 LL TOTAL PROVIDED PARI ZONES PROPOSED 1 LOT AREA (MINIMUM FRC MINIMUM FRC MINIMUM FRC	IEA: GAREA: JNIT 1 JNIT 2 JNIT 3 3 JNIT 4 JNIT 5 JNIT 6 3 JNIT 7 JNIT 8 JNIT 8 JNIT 9 JNIT 9 3 P UNITS UNITS KING: UNITS JSES SQ. M) IGE (M) INT YARD: RIOR SIDE YARD: RIOR SIDE YARD:	SITE D 6,808 MT2 SQ.M. 195.27 SQ.M. 184.70 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.027 SQ.M. 195.01 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 1724.98 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,723 SPACES REQUIRED R3 R3 10 JRBAN RESIDENTIAL N 155 (SO. M) 15 MTS. 7.5 MTS. 3 MTS. <td>ATA - (73,286 SQ 1.68 ACRES SQ. 2.7 1.5 2.0 6. 2.7 1.5 2.0 6. 2.7 6. 18, 2.7 6. 18, RKING REQUIREI #R UNIT + 0.25 F/ * 2.25 FOR VISITOR #EDIUM DENSITY R)</td> <td>78 FT.) FT. 101 SQ. FT. 288 SQ. FT. 299 SQ. FT. 189 SQ. FT. 101 SQ. FT. 288 SQ. FT. 103 SQ. FT. 104 SQ. FT. 105 SQ. FT. 105 SQ. FT. 106 SQ. FT. 107 SQ. FT. 108 SQ. FT. 108 SQ. FT. 1099 SQ. FT. 101 SQ. FT. 189 SQ. FT. 191.40 7.50 I 7.5 M 3.0 M</td> <td>PROVIDED PARKING 23 UNITS PROPOSED 10 7 (SQ. M) 3 MTS (CLUSTER) MTS. TS TS.</td>	ATA - (73,286 SQ 1.68 ACRES SQ. 2.7 1.5 2.0 6. 2.7 1.5 2.0 6. 2.7 6. 18, 2.7 6. 18, RKING REQUIREI #R UNIT + 0.25 F/ * 2.25 FOR VISITOR #EDIUM DENSITY R)	78 FT.) FT. 101 SQ. FT. 288 SQ. FT. 299 SQ. FT. 189 SQ. FT. 101 SQ. FT. 288 SQ. FT. 103 SQ. FT. 104 SQ. FT. 105 SQ. FT. 105 SQ. FT. 106 SQ. FT. 107 SQ. FT. 108 SQ. FT. 108 SQ. FT. 1099 SQ. FT. 101 SQ. FT. 189 SQ. FT. 191.40 7.50 I 7.5 M 3.0 M	PROVIDED PARKING 23 UNITS PROPOSED 10 7 (SQ. M) 3 MTS (CLUSTER) MTS. TS TS.
1. 2. 3. 4. 1TEM 1 2 3 4 5 6 7 8	GROSS SITE AR GROSS BUILDIN TOWNHOUSES BLOCK 1 LL SUBTOTAL BLOCK 2 LL SUBTOTAL BLOCK 3 LL SUBTOTAL TOTAL PROVIDED PARI ZONES PROPOSED 1 LOT AREA (MINIMUM FRC MINIMUM FRC MINIMUM FRC	Image: Arrow of the second state of	SITE D 6,808 MT2 SQ.M. 195.27 SQ.M. 184.70 SQ.M. 195.01 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.01 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 1,724.98 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 155 (SQ. M) 15 MTS 7.5 MTS. 7.5 MTS. 3 MTS. 7.5 MTS. <td>A T A - (73,286 SQ 1.68 ACRES SQ. 2.7 1.5 2.0 6. 2.7 1.5 2.0 6. 2.7 1.5 2.0 6. 2.7 1.5 2.0 6. 2.7 1.5 2.0 6. 1.5 2.7 6. 1.5 2.7 6. 1.5 2.7 6. 1.5 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 7.7</td> <td>78 S.FT.) S.FT. 101 SQ. FT. 288 SQ. FT. 299 SQ. FT. 189 SQ. FT. 101 SQ. FT. 288 SQ. FT. 101 SQ. FT. 299 SQ. FT. 189 SQ. FT. 2099 SQ. FT. 2099 SQ. FT. 2088 SQ. FT. 189 SQ. FT. 2088 SQ. FT. 189 SQ. FT. 2688 SQ. FT. 189 SQ. FT. 2688 SQ. FT. 189 SQ. FT. 189 SQ. FT. 215.01 R3 - 215.01 19.46 7.50 1 3.0 M 45.5 1</td> <td>PROVIDED PARKING 23 UNITS PROPOSED 10 7 (SQ. M) 3 MTS (CLUSTER) MTS. TS TS.</td>	A T A - (73,286 SQ 1.68 ACRES SQ. 2.7 1.5 2.0 6. 2.7 1.5 2.0 6. 2.7 1.5 2.0 6. 2.7 1.5 2.0 6. 2.7 1.5 2.0 6. 1.5 2.7 6. 1.5 2.7 6. 1.5 2.7 6. 1.5 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 2.7 8. 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 8. 7.7 7.7	78 S.FT.) S.FT. 101 SQ. FT. 288 SQ. FT. 299 SQ. FT. 189 SQ. FT. 101 SQ. FT. 288 SQ. FT. 101 SQ. FT. 299 SQ. FT. 189 SQ. FT. 2099 SQ. FT. 2099 SQ. FT. 2088 SQ. FT. 189 SQ. FT. 2088 SQ. FT. 189 SQ. FT. 2688 SQ. FT. 189 SQ. FT. 2688 SQ. FT. 189 SQ. FT. 189 SQ. FT. 215.01 R3 - 215.01 19.46 7.50 1 3.0 M 45.5 1	PROVIDED PARKING 23 UNITS PROPOSED 10 7 (SQ. M) 3 MTS (CLUSTER) MTS. TS TS.
1. 2. 3. 4. 1TEM 1 2 3 4 5 6 7 8 9	GROSS SITE AR GROSS BUILDIN TOWNHOUSES BLOCK 1 LL SUBTOTAL BLOCK 2 LL SUBTOTAL BLOCK 3 LL TOTAL PROVIDED PARI ZONES PROPOSED 1 LOT AREA (MINIMUM FRC MINIMUM FRC MINIMUM EXTE MINIMUM INTER	Image: Arrow of the second state of	SITE D 6,808 MT2 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.01 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.27 SQ.M. 174.98 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 125 SSPACES REQUIRED R3 – 10 JRBAN RESIDENTIAL M 15 15 MTS. 7.5 MTS. 3 MTS. </td <td>A T A - (73,286 SQ 1.68 ACRES SQ. 2.7 1.68 ACRES 2.0 6. 2.1 2.1 5 2.0 6. 2.1 6. 2.1 8. 2.1 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 7. 7 6. 1.5 2.1 6. 1.5 2.1 7 7 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 7</td> <td>78 S.FT. 101 SQ. FT. 288 SQ. FT. 299 SQ. FT. 101 SQ. FT. 1088 SQ. FT. 101 SQ. FT. 1039 SQ. FT. 1049 SQ. FT. 1059 SQ. FT. 1068 SQ. FT. 1079 SQ. FT. 1089 SQ. FT. 1015 SQ. FT. 10189 SQ. FT. 10199 SQ. FT. 10189 SQ. FT. 10199 SQ. FT. 10189 SQ. FT. 1189 SQ. FT. 119.40 T.500 119.40 T.500 119.40 T.500 119.40 T.500 119.40<!--</td--><td>PROVIDED PARKING 23 UNITS PROPOSED 10 7 (SQ. M) 6 MTS (CLUSTER) MTS. TS. TS. TS. X</td></td>	A T A - (73,286 SQ 1.68 ACRES SQ. 2.7 1.68 ACRES 2.0 6. 2.1 2.1 5 2.0 6. 2.1 6. 2.1 8. 2.1 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 6. 1.5 2.1 7. 7 6. 1.5 2.1 6. 1.5 2.1 7 7 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 8. 7 7 7 8. 7 7 7 8. 7 7 7 7	78 S.FT. 101 SQ. FT. 288 SQ. FT. 299 SQ. FT. 101 SQ. FT. 1088 SQ. FT. 101 SQ. FT. 1039 SQ. FT. 1049 SQ. FT. 1059 SQ. FT. 1068 SQ. FT. 1079 SQ. FT. 1089 SQ. FT. 1015 SQ. FT. 10189 SQ. FT. 10199 SQ. FT. 10189 SQ. FT. 10199 SQ. FT. 10189 SQ. FT. 1189 SQ. FT. 119.40 T.500 119.40 T.500 119.40 T.500 119.40 T.500 119.40 </td <td>PROVIDED PARKING 23 UNITS PROPOSED 10 7 (SQ. M) 6 MTS (CLUSTER) MTS. TS. TS. TS. X</td>	PROVIDED PARKING 23 UNITS PROPOSED 10 7 (SQ. M) 6 MTS (CLUSTER) MTS. TS. TS. TS. X
1. 2. 3. 4. 1TEM 1 2 3 4 5 6 7 8 9 10	GROSS SITE AR GROSS BUILDIN TOWNHOUSES BLOCK 1 L SUBTOTAL BLOCK 2 L SUBTOTAL BLOCK 3 L SUBTOTAL TOTAL SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL S SUBTOTAL S SUBTOTAL S SUBTOTAL S S S S S S S S S S S S S S S S S S S	Image: Arrow of the second	- SITE D 6,808 MT2 SQ.M. 195.27 SQ.M. 184.70 SQ.M. 195.01 SQ.M. 574.98 SQ.M. 195.27 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.27 SQ.M. 574.98 SQ.M. 195.27 SQ.M. 574.98 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,725 MTS. 7.5 MTS. 7.5 MTS. 3 MTS. 40 % 30 %	ATA - (73,286 SQ 1.68 ACRES SQ 2.7 1.68 ACRES 2.0 6. 2.1 2.0 6. 2.0 6. 2.0 6. 2.0 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.0 6. 1.5 2.2 7. 6. 1.5 2.2 7. 6. 1.5 2.2 7. 6. 1.5 2.2 7. 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	78 S.FT. 101 SQ. FT. 288 SQ. FT. 299 SQ. FT. 299 SQ. FT. 209 SQ. FT. 208 SQ. FT. 209 SQ. FT. 208 SQ. FT. 208 SQ. FT. 208 SQ. FT. 209 SQ. FT. 208 SQ. FT. 209 SQ. FT. 208 SQ. FT. 208 SQ. FT. 208 SQ. FT. 208 SQ. FT. 209 SQ. FT. 200 SQ. FT. 215.01 19.40 7.50 I 7.5 M 3.0 M 45.5 I 12.27 64 %	PROVIDED PARKING 23 UNITS PROPOSED 10 7 (SQ. M) 3 MTS (CLUSTER) MTS. TS TS. TS. X
1. 2. 3. 4. 1TEM 1 2 3 4 5 6 7 8 9 10 11	GROSS SITE AR GROSS BUILDIN TOWNHOUSES BLOCK BLOCK 1 U SUBTOTAL BLOCK 2 U SUBTOTAL BLOCK 3 U SUBTOTAL C SUBTOTAL BLOCK 3 U SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL S SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL C SUBTOTAL S SUBTOTAL S SUBTOTAL S SUBTOTAL S SUBTOTAL S SUBTOTAL S SUBTOTAL S SUBTOTAL S SUBTOTAL S SUBTOTAL S S SUBTOTAL S S SUBTOTAL S S S S S S S S S S S S S S S S S S S	IEA: GAREA: JNIT 1 JNIT 2 JNIT 3 3 JNIT 5 JNIT 5 JNIT 6 3 JNIT 7 JNIT 6 JNIT 8 JNIT 9 JNIT 9 3 DUNITS UNITS VINIT 9 3 DUNITS UNITS VINIT 9 3 DUNITS UNITS VINIT 9 3 DUNITS UNITS KING: UNITS JSES JSES SQ. M) INIT YARD: RIOR SIDE YARD: RIOR SIDE YARD: RIOR SIDE YARD: COVERAGE: QUNT YARD: INIT YARD: RIOR SIDE YARD: INIT YARD: COVERAGE: INIT YARD:	- SITE D 6,808 MT2 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.01 SQ.M. 574.98 SQ.M. 195.27 SQ.M. 195.27 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.01 SQ.M. 195.27 SQ.M. 574.98 SQ.M. 195.27 SQ.M. 574.98 SQ.M. 195.27 SQ.M. 1724.94 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,724.94 SQ.M. 1,725 MTS. 7.5 MTS. 3 MTS. 7.5 MTS. 40 % 30 % 60 (SQ. M)	ATA - (73,286 SQ 1,68 ACRES SQ. 2.7 1.6 2.0 6. 2.7 1.5 2.0 6. 2.7 1.5 2.0 6. 1.5 2.7 6. 18, RKING REQUIRE + 2.25 FOR WISITOR + 2.25 FOR WISITOR HEDIUM DENSITY R)	78 FT. FT. <td>PROVIDED PARKING 23 UNITS PROPOSED 10 7 (SQ. M) 3 MTS (CLUSTER) 4TS. TS. TS. TS. 4TS. %</td>	PROVIDED PARKING 23 UNITS PROPOSED 10 7 (SQ. M) 3 MTS (CLUSTER) 4TS. TS. TS. TS. 4TS. %

LEGEND

LEGEND LOCATION OF BARRIER-FREE PATH OF TRAVEL FROM PARKING LOCATION

CURB RAMP DETAIL

		G 🔳	GARBAGE CAN
	GRASS (SEE LANDSCAPE DRAWINGS)	GB	GRAVEL BED
0:0:0	SPECIAL NON SUB CONC. SIDEWALK	GM	GAS METER
and the	SURFACE-BARRIER FREE ACCESS	GB/AE	GRAVEL BED & ALUMINUM EDGE
1//////		HV	NEW HYDRO VAULT
1/////.	SNOW ZONE	HC STOP	HANDICAPPED PARKING SIGN
FIBAR .	FIBAR SAFETY SURFACE	SP	HPCAS STAFF PARKING
A SCHOOL STREET		LB	LANDSCAPE BED 914 mm TYPICAL
	CONCRETE	NIC	NOT IN CONTRACT
	FIRE ROUTE (FIRE ROJTE TO BE POSTED AND DESIGNATED UNDER MUNICIPAL BY-LAW)	SW	NEW CONCRETE SIDEWALK C/W CONTROL JOINTS @ 1220 / 1524 mm O.C.
AF	ALUMINUM EDGE	WM	WATER METER
B	NEW STEEL BOLLARD	-X	PARKING LOT LITE
		¤-¤	DOUBLE SIDED PARKING LOT LITE
CB	CATCH BASIN NEW CONCRETE	C)O	NEW TREE
CC	CURB CUT		PROPERTY LINE
[FAP	RECESSED FIRE ALARM PANEL	· · · · · · · · · · · · · · · · · · ·	NEW BLACK CHAIN LINK FENCE
FR	FIRE ROUTE SIGN		CORE DRILL CONC. FOR POSTS
FH 💿	FIRE HYDRANT		5' HIGH STAKED ORANGE CONSTRUCTION FENCE © 6' O.C. C/W TIE WIRE ON TOP
FP •	FLAG POLE		6' HIGH BLACK IRON FENCE
			6' HIGH BOARD ON BOARD CEDAR FENCE C/w LATTICE TOP
SITE	E DETAILS		
DETA 3.8.3.3 OURE BE -COL COU COU -SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM SMM -	IL 'A' CURB RAMP	B IIIIM IIIIIM IIIIM IIIIN IIII IIIII IIIIII IIIIIII IIIIIII	WALK SURFACE DATUM = +200 MAX.



SIDE NOTE: PROVIDE NON-SLIP SURFACE FINISHES (PREFERABLY A BRUSHED CONCRETE FINISH AT RIGHT ANGLES TO THE PATH OF TRAVEL OR AN APPROVED ALTERNATE NON-SLIP SURFACE FINISH)





		ISSUES:
	1 NOV 1, 2021	SITE PLAN APPLICATION
BM2		
	\mathbf{CO}	NEXI
GE S		
XQ XQ		and the state
c/w 50mm ODUCIOE	CONEX CAI	NADA INC.
	WWW.CONEXTEAM.C MARIOG@CONEXTEA	COM AM.COM
	PH: (226) 235-31	030
	A. Deta	il Number
	B. Draw	ing Number — where Detail Found
	CONTRACTOR SHALL CHEC REPORT ANY DISCREPANCI AL_ DRAWINGS AND S ARCHITECT AND MUST B	X ALL DIMENSIONS ON THE DRAWINGS AND ES TO THE ARCHITECT BEFORE PROCEEDING. SPECIFICATIONS ARE PROPERTY OF THE E RETURNED AT THE COMPLETION OF THE
	WORK, DRAWINGS ARE NO REVISED DRAWINGS OR CONSTRUCTION", ANY U CALCUL	THOSE THAT ARE MARKED "ISSUED FOR JNAUTHORIZED USE IS PROHIBITED. AREA ATIONS ARE APROZIMATE.
	PROJECT NAME:	
	RIVE	
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	MARIOG@CONEXTEAM.COM
	PH: (226) 235-3030
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RIVER BREEZE TOWNHOUSE DEVELOPMENT MUNICIPALITY OF BROCKTON (FORMERLY TOWN OF WALKERTON)

CHIEF A



CONTRACT NO. 21-01892-01

MAYO)R
ADMINISTRATIVE OFFICER / CLEF	٦K

MR. CHRIS PEABODY

- MS. SONYA WATSON
- DIRECTOR OF OPERATIONS : MR. GREGORY FURTNEY

OWNER: CON EX CANADA INC.

Index

SHEET No.	DESCRIPTION
01892-EX1	EXISTING CONDITIONS AND REMOVALS PLAN
01892-SP1	DEVELOPMENT SITE PLAN
01892-SS1	SITE SERVICING PLAN
01892-SGR1	SITE GRADING PLAN
01892-STM1	STORM SEWER CATCHMENT AREAS
01892-DET1	CHAMBER/MISCELLANEOUS DETAILS I
01892-DET2	MISCELLANEOUS DETAILS II
01892-DET3	MISCELLANEOUS DETAILS III

CAUTION: THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE DRAWINGS, AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

TLB SJ 2 FEB 15/22 SECOND SUBMISSION OCT 5/21 TLB SJC REVISED FIRST SUBMISSION SEPT 22/21 TLB SJC FIRST SUBMISSION TLB SJC 0 JUL 12/21 PRELIMINARY SUBMISSION BY APPI No. DATE DESCRIPTION **REVISION / ISSUE** Seal not valid unless signed and dated L. BURNSID CORIDE ENGINEERING INC 517 - 10th STREET, Hanover, Ontario N4N 1R4 Telephone: (519) 506-5959 www.cobideeng.com RIVER BREEZE TOWNHOUSES PROPOSED DEVELOPMENT MUNICIPALITY OF BROCKTON (FORMERLY TOWN OF WALKERTON) TITLE SHEET CON EX CANADA INC. TLB KW ecked: TLB FEB 2022 Design Engineer DRAWING No. 01892-TS













SC740EPE08B / SC740EPE08BPC		· · · · · · · · · · · · · · · · · · ·	<u> </u>	0.6" (15 mm)	
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	12 /7 /240 mm)	14.5" (368 mm)	1	
SC740EPE10B / SC740EPE10BPC	10 (250 min)			0.7" (18 mm)	
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	14 7" (373 mm)	12.5" (318 mm)		
SC740EPE12B / SC740EPE12BPC	12 (500 mm)		<u>(1.000)</u> .	1.2" (30 mm)	
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	18 / ¹ //67 mm)	9.0" (229 mm)		
SC740EPE15B / SC740EPE15BPC	10 (0/01111)		age and the	1.3⁼ (33 mm)	
SC740EPE18T / SC740EPE18TPC	19" (450 mm)	10.77 (500 mm)	5.0" (127 mm)	teritoria September	
SC740EPE18B / SC740EPE18BPC			24 000 01 	1.6⁼ (41 mm)	
SC740EPE24B*	24" (600 mm)	18.5" (470 mm)		0.1" (3 mm)	

ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740EPE24B THE 24* (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

CAUTION:

Notes

R. WHALE INC. DATED APRIL 27, 1982.

GEOMATICS INC. ON JUNE 23, 2021.

SANITARY SEWER TO BE PVC SDR35 MATERIAL.

WATERMAIN TO BE PVC DR18 MATERIAL.

THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE DRAWINGS, AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK. THE CONTRACTOR SHALL INFORM THEMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

PROPERTY BOUNDARY DERIVED FROM PLAN 3R-3215 PREPARED BY HARRY

TOPOGRAPHICAL INFORMATION DERIVED FROM FIELD SURVEY BY SMC

COVER OVER WATERMAIN TO BE MINIMUM 1.8m AT ALL POINTS.

MUNICIPAL DEVELOPMENT AND SERVICING GUIDELINES.

ALL ORGANIC MATERIAL WITHIN 1.2m OF FINISHED PROFILE GRADE TO BE

REMOVED FROM ALL AREAS UNDER THE TRAVELLED PORTION OF THE ROAD.

ALL CONSTRUCTION TO CONFORM TO THE MUNICIPALITY OF BROCKTON'S

Benchmark Information								
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\Con Ex\01892 - 37 Yonge Street Townhouses\Drawings\Submissions\2021-09-29 Second Submission\01892 37 Yonge - Base 2021-09



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	M.H.	M.H.				AREA					SIZE		(FULL)	(FULL)	FLOW
			(ha)		(ha)	(ha)	(min)	(mm/h)	(m3/s)	(m)	(mm)	%	(m3/s)	(m/S)	(min)
301	SITE	CB2	0.09	0.70	0.06	0.06	10.00	93.45	0.016	41.0	300	0.50	0.068	0.97	0.71
302	CB2	CBMH1/OGS	0.09	0.74	0.07	0.13	10.71	90.56	0.033	24.7	300	0.50	0.068	0.97	0.43
						Total	11.13								

	DBIDE	Subdivision: Date: Designed By: Checked By: File Number:	Subdivision: CONEX TOWNHOUSE DEVELOPMENT 37 YONGE ST WALKERTON Date: August 2, 2021 Designed By: KW Checked By: TLB File Number: 01892							Post Development Runoff Coefficients			
		Area/Width	"C"										
Tow	nhouse Area =	160.0	0.90	<u>.</u>									
Townhouse	Road Width =	7.0	0.90										
Half	f Road Width =	4.69	0.90										
Townhouse Dr	iveway Area =	60.0	0.90	_									
Pe	ervious Area =	N/A	0.20	-									
AREA ID	Total Area (ha)	Houses (#)	Semis (#)	Towns (#)	Townhouse Road (m)	Road (m)	House Driveways (#)	Semi/ Town Driveways (#)	Pervious (ha)	Impervious (ha)	Balanced 'C'		
301	0.093								0.027	0.067	0.70		
302	0.093								0.022	0.072	0.74		
<u>Notes:</u> Taken from the Minist - Pervious area has a ri	ry of the Environmen	t - Guidelines for the al to 0.20	Design of Stor	m Sewers			1	1	1	<u>I</u>	1		

CON EX CANADA INC.

FUNCTIONAL SERVICING REPORT

YONGE STREET TOWNHOUSES MUNICIPALITY OF BROCKTON

FEBRUARY 2022

COBIDE Engineering Inc 517 10th Street Hanover, ON N4N 1R1 TEL: 519-506-5959 www.cobideeng.com



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4.	STORM SEWER SYSTEM 4
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SP1 – Proposed Site Plan

SS1 – Site Servicing Plan SWM1 – Existing Conditions Catchment Areas SWM2 – Proposed Conditions Catchment Areas DET1 – SC740 Details B – Stormwater Modelling

1. INTRODUCTION

Cobide Engineering Inc. was retained by Con Ex Canada Inc. to provide engineering services in support of a Re Zoning and Site Plan Approval Application. The application will be to develop nine (9) townhouses on the site in a condominium format.

A copy of the proposed Site Plan has been included in Appendix A as Drawing SP1.

1.1 LOCATION

The proposed development is located Parts 1 & 2 of Plan 3R-3215, Former Geographic Town of Walkerton, Municipality of Brockton, County of Bruce (described herein as the "site"). A Site Location Map is included below as Figure 1. The subject property is approximately 0.72 hectares in area.



Figure 1 - Site Location

1.2 DEVELOPMENT PROPOSAL

The development will consist of 9 condominium style townhouses and associated parking facilities.

The site will be accessed from Yonge Street.

The proposed development will be serviced with a new 150mm diameter PVC watermain from the existing 300mm diameter main on Yonge Street. The new service will be tied into the existing watermain via a 300x300x150 tee.

A 19mm service will be installed from the 150mm main to each unit.

A new 200mm diameter service will be installed from the existing sanitary main on Yonge Street through the site.

Each unit will be serviced with a 125mm diameter service.

4. STORM SEWER SYSTEM

The subject property is currently vacant. The site is generally sloping in two directions from the middle of the site. The front portion of the site slopes from west to east and the remainder slopes from east to west/ southwest. There are no storm sewers on the property. The site discharges overland onto Yonge Street or west towards the Saugeen River. Yonge Street will be considered Discharge Point #1 and the back of the site will be considered Discharge Point #2 for the purposes of this report.

The proposed development will be serviced with a new stormwater drainage system consisting of catchbasins and a minimum 250 mm dia. storm sewer pipe that will discharge to an existing storm structure on Yonge Street to the south of the site.

The hydrologic modelling software PCSWMM Version 5.6.1803 Professional 2D was used to determine the pre and post-development peak flows of the 2 yr., 5 yr., 25 yr., 50 yr., and 100 yr. storm events (6 hour duration, SCS Type II, AMC II storm, Mount Forest IDF Parameters).

The pre-development and post development parameters and model outputs are contained in Appendix B.

4.1 DESIGN REQUIREMENTS

The intent of stormwater quantity control is to limit the flows under proposed conditions to existing levels or less to protect the downstream watercourses, infrastructure and properties.

Minor flows from the majority of the development will be conveyed to the proposed stormwater management facility via a new storm sewer collection system that will be constructed throughout the development. This storm sewer collection system will be designed to accommodate all flows up to and including the 5 year storm event.

Major flows (>5 year), will be conveyed overland within the road allowance of each street.

Due to the increase in impervious area, stormwater quantity control will be required for the site. The design of the stormwater management facility has assumed a free outlet from the storage facility.

4.2 SWM FACILITY CHARACTERISTICS

The stormwater management facility and outlet structure have been designed to control peak runoff rates as well as conform to MECP best practices.

In order to provide the above required volumes and discharges, an underground storage system will be implemented. Considering the site characteristics, the StormTech SC-740 Chamber from ADS was selected. The layout will consist of 9 rows of 5 chambers each with an inlet and outlet manifold.

The base of the stone will be at an elevation of 258.00 m with the base of the chambers at an elevation of 258.15 m. A 50 mm orifice will be installed on the outlet of a CB with an invert of 258.00 m to control peak runoff rates.

4.2.1 SWM FACILITY PERFORMANCE

Below is a summary of the hydraulic performance of the stormwater SWM Facility during the various storm events.

RETURN PERIOD	ELEVATION (m)	STORAGE (m³)	DISCHARGE (I/s)
2 Year	257.92	36	2.3
5 Year	258.00	47	2.8
25 Year	258.15	64	3.5
50 Year	258.21	72	3.8
100 Year	258.28	79	4.1

Table 6.1 -	SWM	Facility	Performance
	300101	Facility	renomiance

4.3 MODELLING RESULTS

Based upon the above outlet structure, the following summarizes the pre-development and post development peak flows to the discharge point.

	Table 0.2 - Feak Flow Sullindry										
	DISCHARG (Li	E POINT #1 /S)	DISCHARGE POINT #2 (I/s)								
PERIOD	PRE	POST	PRE	POST							
2 Year	2.3	2.3	7.4	8.8							
5 Year	3.7	2.8	13.0	13.9							
25 Year	6.2	3.5	23.5	23.5							
50 Year	7.3	3.8	28.4	28.0							
100 Year	8.5	4.1	33.5	32.6							

As seen in the above table, the post development peak flows will be less the pre development peak flows for all design storm events at Discharge Point #1.

At Discharge Point #2, all storm events except the 2 and 5 year storm events are below the pre development peak flows. The exceedances are very small and not expected to cause any issues downstream. The catchment area is remaining largely unchanged from the pre development conditions expect for a small area at the top of the catchment area where the units are being developed. All of the impervious area will flow through the treed area prior to reaching the downstream property boundary. Due

to the flows going through the treed area before discharging the flows will be largely dispersed and not expected to impact any downstream infrastructure.

4.4 QUALITY CONTROL

The OGS has been designed in conformance with the MOE design guidelines to achieve an "Enhanced" Level of protection (min. 80% TSS removal). The OGS will be a FD4-HC from Hydro International or approved equivalent. This OGS unit will provide 94.9% TSS removal. The MOE SWM Design guidelines recommend OGS units be used to treat smaller catchment areas such as this project.

5. GRADING & EROSION AND SEDIMENT CONTROL

Erosion and sediment controls shall meet the requirements of the most recent version of the MOE *Stormwater Management Planning and Design Manual* at the time of construction.

5.1 CONSTRUCTION STAGE

Prior to the start of construction, appropriate sediment control facilities are to be in place. Following are details regarding erosion and sediment control that are to be implemented:

- Placement of Heavy Duty Siltation fence will also be installed at any development grading limits where runoff may discharge from the site;
- Installation of filter cloth under all new and existing catchbasin grates until paving of the subdivision streets is completed;
- Mud mats will be placed at construction accesses to keep public roadways free from debris during the construction period;
- Re-vegetate all disturbed areas after underground and surface works have been constructed.

Prior to removal of sediment control facilities, ensure that sediment that may have accumulated has been removed.

Once the area has been stabilized, the silt fencing can be removed.

6. UTILITIES

6.1 STREETLIGHTS

The configuration of the streetlights will be designed in accordance with municipal standards. Concrete poles shall be used with LED streetlights. Lighting will be designed in such a manner as to minimize light transmission onto neighbouring properties.

6.2 ELECTRICITY

Westario Power Inc. will be responsible for completing the design of the electrical distribution system. Each unit will be individually serviced from an on site padmount transformer. Underground distribution lines will be utilized for this development.

An existing pole will be required to be relocated as part of the servicing of the development due to the entrance location and the lowering of the grade to accommodate the proposed entrance.

6.3 NATURAL GAS

Union Gas will be responsible for completing the design of the natural gas distribution system. Each unit will be individually serviced. The existing gas main on Yonge Street will likely need to be lowered as part of the servicing of the development.

6.4 TELEPHONE/ CABLE TV/ INTERNET

Wightman and Eastlink will be given the opportunity to provide telephone, cable TV and internet services to the development. They will complete their own design, based upon Westario's proposed design configuration to ensure utilities are installed in a common trench. The existing telecommunications lines on Yonge Street will likely need to be lowered as part of the servicing of the development.

Sincerely,

Cobide Engineering Inc.

in hul

Travis Burnside, P. Eng.

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Appendix A

DRAWINGS

FUNCTIONAL SERVICING REPORT

YONGE STREET TOWNHOUSES

MUNICIPALITY OF BROCKTON

















SC740EPE08B / SC740EPE08BPC		· · · · · · · · · · · · · · · · · · ·	<u> </u>	0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	12 /7 /240 mm)	14.5" (368 mm)	
SC740EPE10B / SC740EPE10BPC	10 (250 min)			0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	14 7" (373 mm)	12.5" (318 mm)	
SC740EPE12B / SC740EPE12BPC	12 (500 mm)		<u>(1.000)</u> .	1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	18 / ¹ //67 mm)	9.0" (229 mm)	. —
SC740EPE15B / SC740EPE15BPC	10 (0/01111)		age and the	1.3⁼ (33 mm)
SC740EPE18T / SC740EPE18TPC	19" (450 mm)	10.77 (500 mm)	5.0" (127 mm)	e de la calencia de l
SC740EPE18B / SC740EPE18BPC			24 000 01 	1.6⁼ (41 mm)
SC740EPE24B*	24" (600 mm)	18.5" (470 mm)		0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740EPE24B THE 24* (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

CAUTION:

Notes

R. WHALE INC. DATED APRIL 27, 1982.

GEOMATICS INC. ON JUNE 23, 2021.

SANITARY SEWER TO BE PVC SDR35 MATERIAL.

WATERMAIN TO BE PVC DR18 MATERIAL.

THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE DRAWINGS, AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK. THE CONTRACTOR SHALL INFORM THEMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

PROPERTY BOUNDARY DERIVED FROM PLAN 3R-3215 PREPARED BY HARRY

TOPOGRAPHICAL INFORMATION DERIVED FROM FIELD SURVEY BY SMC

COVER OVER WATERMAIN TO BE MINIMUM 1.8m AT ALL POINTS.

MUNICIPAL DEVELOPMENT AND SERVICING GUIDELINES.

ALL ORGANIC MATERIAL WITHIN 1.2m OF FINISHED PROFILE GRADE TO BE

REMOVED FROM ALL AREAS UNDER THE TRAVELLED PORTION OF THE ROAD.

ALL CONSTRUCTION TO CONFORM TO THE MUNICIPALITY OF BROCKTON'S

Be	nchmark I	nformation								
¢	BM1 IB NORTHEAST CORNER OF PROPERTY. ELEVATION 262.22m BM2									
$\mathbf{\Phi}^{\mathbf{I}}$	BM2 SIBATSO	OUTHEAST COR		RSECTION OF	YONGE					
+	STREET /	AND VALLEYSID	E DRIVE.		260.41m		J			
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- 1	OCT 5/21	R		SUBMISSION		TLB	SJC			
1	SEPT 22/21		FIRST SUB	MISSION		TLB	SJC			
0	JUL 12/21	P		SUBMISSION		TLB	SJC			
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Drawn:		TLB	Approved:							
Checke	d:	TLB								
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Appendix B

MODEL PARAMETERS AND OUTPUT STORMWATER MANAGEMENT REPORT YONGE STREET TOWNHOUSES MUNICIPALITY OF BROCKTON

Table B.1 Parameter Summary Table

			Proposed (Conditions						
Outlet Location	Model Catchment ID	Description	Area (ha)	Drainage Channel (m)	Flow Length (m)	Gradient (%)	Total Imperv. (%)	Not Connected Imperv. (%)	Manning's 'n' (Perv.)	CN (Perv.)
Street	101	Front Portion of Property	0.10	42	25	4.0	1.8	0.0	0.25	77.0
Trees	102	Back Portion of Property	0.58	88	66	40.0	0.0	0.0	0.37	68.7
Street	201	Front Portion of Property	0.19	125	15	4.0	75.0	0.0	0.25	77.0
Trees	202	Back Portion of Property	0.49	88	56	33.0	10.6	100.0	0.37	68.7

Table B.2 Site Soils: (as per Ontario Soil Survey Report No. 16 for Bruce County)

Soil Type Harriston Loam

Hydologic Soil Group BC

		TABL	E OF CURVE	NUMBERS (CN's)							
Land Use		Hydrologic Soil Type										
	А	AB	В	BC	С	CD	D	Manning's 'n'				
Meadow	50	54	58	64.5	71	74.5	78	0.4	continuous grass			
Woodlot	50	55.3	60.5	67	73.5	76.8	80	0.4	forests			
Long Grass	55	60	65	72	79	81.5	84	0.3	natural, not maintained			
Lawns	60	65.5	71	77	83	86	89	0.25	maintained			
Pasture/Range	58	61.5	65	70.5	76	78.5	81	0.17	farm pasture			
Crop	66	70	74	78	82	84	86	0.13	farm land			
Fallow (bare)	77	82	86	89	91	93	94	0.05	idle farm land (bare)			
Built-up	60	65.5	71	77	83	89	89	0.25	Lawns Proposed			
Streets, paved	98	98	98	98	98	98	98	0.01				

	HYDROLOGIC SOIL TYPE (%) - Proposed Conditions												
Catabrant		Hydrologic Soil Type											
Catchinent	A	A AB B BC C CD D TOTAL											
101	0	0 0 0 100 0 0 100											
102	0	0	0	100	0	0	0	100					
201	0	0	0	100	0	0	0	100					
202	0	0	0	100	0	0	0	100					

	LAND USE (%) - Proposed Conditions													
Catchment	Meadow	Woodlot	Long Grass	Lawns	Pasture Range	Crop	Fallow (Bare)	Imperv. Not Connected (Rooftops)	Imperv. Connected	Total				
101	0	0	0	98.2	0	0	0	0.0	1.8	100				
102	0	83	0	17	0	0	0	0.0	0.0	100				
201	0	0	0	25.0	0	0	0	0.0	75.0	100				
202	0	74	0	15	0	0	0	10.6	0.0	100				

	CURVE NUMBER (CN) - Proposed Conditions										
Catchment	Meadow	Woodlot	Long Grass	Lawns	Pasture Range	Crop	Fallow (Bare)	Built-up	Imperv. Not Connected (Rooftops)	Weighted CN - Pervious	Manning's 'n'
101	64.5	67	72	77	70.5	78	89	77	90	77.0	0.25
102	64.5	67.0	72	77	70.5	78	89	77	90	68.7	0.37
201	64.5	67	72	77	70.5	78	89	77	90	77.0	0.25
202	64.5	67	72	77	70.5	78	89	77	90	68.7	0.37

Table B.3: Impervious Area Determination for Subcatchment 201

Proposed Cond	litions					
Area of Concern	Total Area (ha)	Impervio Conn	ous Area lected	Impervi Not Connect	ious Area ted (Rooftops)	Total (%)
101	0.10	(ha) 0.00	(%) 1.8	(ha) 0.00	(%) 0.0	1.8
102	0.58	0.00	0.0	0.00	0.0	0.0
201	0.19	0.14	75.0	0.00	0.0	75.0
202	0.49	0.00	0.0	0.05	10.6	10.6

Catchment					Imperv. Area	Imperv %
101		m of	20	m wide ROW @ 55% imperv.	0.00 ha	0.0 %
		driveways @	90	m ² @ 100% imperv.	0.00 ha	0.0 %
		driveways @	90	m ² @ 100% imperv.	0.00 ha	0.0 %
		single res. homes with r	oof area o	of 250 m^2	0.00 ha	0.0 %
		Duplex unit with roof are	ea of	250 m ²	0.00 ha	0.0 %
		Commercial with imperv	/ious area	3250 m ²	0.00 ha	0.0 %
		Apartment Block with im	npervious	ar 4300 m ²	0.00 ha	0.0 %
	1	Roof		19 m ²	0.00 ha	1.8 %
					0.00 ha	
102		m of	20	m wide ROW @ 55% imperv.	0.00 ha	0.0 %
	0	Asphalt Area @	168	m ² @ 100% imperv.	0.00 ha	0.0
		single res. homes with r	oof area o	of 200 m ²	0.00 ha	0.0
		Duplex unit with roof are	ea of	250 m ²	0.00 ha	0.0
	0	Multi-family Blocks with	roof area	of 266 m ²	0.00 ha	0.0
					0.00 ha	
201		m of	20	m wide ROW @ 55% imperv.	0.00 ha	0.0 %
	1	Impervious Area @	1400	m² @ 100% imperv.	0.14 ha	75.0 %
		single res. homes with r	oof area o	of 2025 m^2	0.00 ha	0.0 %
		Duplex unit with roof are	ea of	200 m ²	0.00 ha	0.0 %
	0	Apartment with roof are	a of	642 m ²	0.00 ha	0.0 %
					0.14 ha	
202		m of	20	m wide ROW @ 55% imperv.	0.00 ha	0.0 %
	0	Impervious Area @	390	m ² @ 100% imperv.	0.00 ha	0.0 %
		driveways @	60	m² @ 100% imperv.	0.00 ha	0.0 %
		single res. homes with r	oof area o	of 225 m^2	0.00 ha	0.0 %
		Duplex unit with roof are	ea of	125 m ²	0.00 ha	0.0 %
	3	Multi-family Blocks with	roof area	of 175 m ²	0.05 ha	10.6 %
					0.05 ha	

Table B.3 - Impervious Area Determination for Proposed Catchment 201

YONGE STREET TOWNHOUSES - MODEL SCHEMATIC







[TITLE]

[OPTIONS]	
;;Options	Value
;;	
FLOW_UNITS	LPS
INFILTRATION	CURVE_NUMBER
FLOW_ROUTING	DYNWAVE
START_DATE	7/9/2021
START_TIME	00:00
REPORT_START_DATE	7/9/2021
REPORT_START_TIME	00:00
END_DATE	7/10/2021
END_TIME	00:00
SWEEP_START	1/1
SWEEP_END	12/31
DRY_DAYS	0
REPORT_STEP	00:01:00
WET_STEP	00:05:00
DRY_STEP	00:05:00
ROUTING_STEP	5
ALLOW_PONDING	NO
INERTIAL_DAMPING	PARTIAL
VARIABLE_STEP	0.75
LENGTHENING_STEP	0
MIN_SURFAREA	0
NORMAL_FLOW_LIMITED	BOTH
SKIP_STEADY_STATE	NO
FORCE_MAIN_EQUATION	H-W
LINK_OFFSETS	ELEVATION
MIN_SLOPE	0
MAX_TRIALS	8
HEAD_TOLERANCE	0
SYS_FLOW_TOL	5
LAT_FLOW_TOL	5
MINIMUM_STEP	0.5
THREADS	2

[EVAPORATION]

;;Type	Parameters
;;	
CONSTANT	0.0
DRY ONLY	NO

[RAINGAGES]

;;	Rain	Time	Snow	Data	
;;Name	Туре	Intrvl	Catch	Source	
;;					
SCS_6h_38.8mm_2yr	INTENSITY	0:05	1.0	TIMESERIES	SCS_6h_38.8mm_2yr
SCS_6h_49.4mm_5yr	INTENSITY	0:05	1.0	TIMESERIES	SCS_6h_49.4mm_5yr
SCS_6h_65.3mm_25yr	INTENSITY	0:05	1.0	TIMESERIES	SCS_6h_65.3mm_25yr
SCS_6h_71.9mm_50yr	INTENSITY	0:05	1.0	TIMESERIES	SCS_6h_71.9mm_50yr
SCS_6h_78.4mm_100yr	INTENSITY	0:05	1.0	TIMESERIES	SCS_6h_78.4mm_100yr

[SUBCATCHMENTS]							
;;			Total	Pcnt.		Pcnt.	Curb
Snow							
;;Name	Raingage	Outlet	Area	Imperv	Width	Slope	Length
Pack							
;;							
101	SCS_6h_78.4mm_10	0yr Pre_Yonge	0.104	1.8	42	4	0
102	SCS_6h_78.4mm_10	0yr Pre_Trees	0.5771	0	88	40	0
201	SCS_6h_78.4mm_10	0yr SU1	0.187	75	125	4	0
202	SCS_6h_78.4mm_10	0yr Post_Trees	0.494	10.6	88	33	0

YONGE STREET TOWNHOUSES - SWM MODELLING - MODEL DETAILS

[SUBAREAS] ;;Subcatchment	N-Imperv	N-Perv	S-Imperv	S-Perv	Pct	tZero F	RouteTo	PctRoute	ed
;; 101 102 201	0.01 0.01 0.01	0.25 0.37 0.25	0.05 0.05 0.05 0.05	0.05 0.05 0.05 0.05	25 25 25 25	(((()UTLET)UTLET)UTLET)UTLET		
202	0.01	0.37	0.05	0.05	25]	MPERVIOUS	3 100	
[INFILTRATION];;Subcatchment	CurveNum	HydCon	DryTime						
101	77	0.5	 7						
102	68.7	0.5	7						
201	77	0.5	7						
202	68./	0.5	7						
[OUTFALLS]									
;;	Invert	Outfall	Stage/Ta	ble	Tide				
;;Name	Elev.	Туре	Time Ser	ies	Gate I	Route To			
Post_Trees	0	FREE			NO				
Post_Yonge	257.73	FREE			NO				
Pre_Trees	0	FREE			NO				
Pre_Yonge	0	FREE			NO				
[STORAGE]									
;;	Invert	Max. 1	Init. Stora	ge Cu	rve			Ponded	Evap.
;;Name Infiltration para ;;	Elev. ameters 	Depth I	Depth Curve	Pa	rams 			Area 	Frac.
SU1	257.58	2.02 0) TABUL	AR Ch	ambers			0	0
[ORIFICES]									
;;	Inlet	Οι	ıtlet	Orific	е	Crest	Disch.	Flap	
;; Open/Close ;;Name	Inlet Node	Οι	ntlet	Orific Type	e	Crest Height	Disch. Coeff.	Flap Gate	Time
;; Open/Close ;;Name ;;	Inlet Node	Ou Nc	utlet ode	Orific Type 	e 	Crest Height	Disch. Coeff.	Flap Gate	Time
;; Open/Close ;;Name ;; OR1	Inlet Node SU1	Ou No Pc	utlet ode ost_Yonge	Orific Type SIDE	e 	Crest Height 	Disch. Coeff. 	Flap Gate NO	Time
;; Open/Close ;;Name ;; OR1 [XSECTIONS]	Inlet Node SU1	Ou No Pc	utlet ode ost_Yonge	Orific Type SIDE	e 	Crest Height 	Disch. Coeff. 0.65	Flap Gate NO	Time 0
<pre>;; Open/Close ;;Name ;; OR1 [XSECTIONS] ;;Link</pre>	Inlet Node SU1 Shape	Ou No Po Geoml	utlet ode ost_Yonge Ge	Orific Type SIDE om2	e Geom3	Crest Height 257.73 Geom	Disch. Coeff. 0.65	Flap Gate NO	Time 0
<pre>;; Open/Close ;;Name ;; OR1 [XSECTIONS] ;;Link ;; OR1</pre>	Inlet Node SU1 Shape CIRCULAR	Ou No Po Geom1 0.05	utlet ode ost_Yonge Ge 0	Orific Type SIDE om2 	e Geom3 	Crest Height 257.73 Geom	Disch. Coeff. 0.65 n4 Ba	Flap Gate NO nrrels	Time 0
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<pre>;; Open/Close ;;Name ;; OR1 [XSECTIONS] ;;Link ;; OR1 [CURVES] ;;Name ;;</pre>	Inlet Node SU1 Shape CIRCULAR Type	Ou No Po Geom1 0.05 X-Value	utlet ode ost_Yonge Ge 0 Y-Value	Orific Type SIDE om2 	e Geom3 0	Crest Height 257.73 Geom 0	Disch. Coeff. 0.65 n4 Ba	Flap Gate NO	Time 0
<pre>;; Open/Close ;;Name ;; OR1 [XSECTIONS] ;;Link ;; OR1 [CURVES] ;;Name ;; Chambers</pre>	Inlet Node SU1 Shape CIRCULAR Type Storage	Ou No Po Geom1 0.05 X-Value 0	utlet ode ost_Yonge 	Orific Type SIDE om2 7	e Geom3 0	Crest Height 257.73 Geom	Disch. Coeff. 0.65 n4 Ba	Flap Gate NO	Time 0
<pre>;; Open/Close ;;Name ;; OR1 [XSECTIONS] ;;Link ;; OR1 [CURVES] ;;Name ;; Chambers Chambers</pre>	Inlet Node SU1 Shape CIRCULAR Type Storage	Ou No Po Geom1 0.05 X-Value 0 0.0254	utlet ode ost_Yonge Ge V-Value 68.5624517 68.5624517	Orific Type SIDE om2 7 7	e Geom3 0	Crest Height 257.73 Geon 0	Disch. Coeff. 0.65 n4 Ba	Flap Gate NO	Time 0
<pre>;; Open/Close ;;Name ;; OR1 [XSECTIONS] ;;Link ;; OR1 [CURVES] ;;Name ;; Chambers Chambers Chambers</pre>	Inlet Node SU1 Shape CIRCULAR Type Storage	Ou No Po Geom1 0.05 X-Value 0 0.0254 0.0508 0.0762	tlet ode 	Orific Type SIDE om2 7 7 7 7	e Geom3 0	Crest Height 257.73 Geom 0	Disch. Coeff. 0.65 n4 Ba	Flap Gate NO	Time 0
<pre>;; Open/Close ;;Name ;; OR1 [XSECTIONS] ;;Link ;;OR1 [CURVES] ;;Name ;;Chambers Chambers Chambers Chambers Chambers Chambers</pre>	Inlet Node SU1 Shape CIRCULAR Type Storage	Ou No Po Geom1 0.05 X-Value 0.0254 0.0254 0.0762 0.1016	tlet ode ost_Yonge Y-Value 68.5624517 68.5624517 68.5624517 68.5624517 68.5624517	Orific Type SIDE om2 7 7 7 7 7 7	e Geom3 0	Crest Height 257.73 Geom 0	Disch. Coeff. 0.65 n4 Ba	Flap Gate NO	Time 0
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YONGE STREET TOWNHOUSES - SWM MODELLING - MODEL DETAILS

Chambers		(0.4572	1	24.	399	0316					
Chambers		(0.4826	1	22.	828	81691					
Chambers		(0.508	1	21.	326	6236					
Chambers		(0.5334	1	19.	718	8201					
Chambers		(0.5588	1	17.	996	50492					
Chambers		(0.5842	1	16.	191	4074					
Chambers		(0.6096	1	14.	457	6274					
Chambers		(0.635	1	12.	331	7037					
Chambers		(0.6604	1	09.	349	0977					
Chambers		(0.6858	1	06.	659	5544					
Chambers		(0.7112	1	04.	095	59179					
Chambers		(0.7366	1	00.	905	59523					
Chambers		(0.762	9	7.1	782	21734					
Chambers		(0.7874	9	2.6	944	8383					
Chambers		(0.8128	8	6.7	421	2031					
Chambers		(0.8382	7	7.0	490	9338					
Chambers		(0.8636	7	3.4	664	2294					
Chambers		(0.889	7	0.2	178	3503					
Chambers		(0.9144	б	8.5	624	15177					
Chambers		(0.9398	б	8.5	624	15177					
Chambers		(0.9652	б	8.5	624	15177					
Chambers		(0.9906	б	8.5	624	15177					
Chambers		1	1.016	б	8.5	624	15177					
Chambers		1	1.0414	б	8.5	624	15177					
Chambers		1	1.06	6	8.5							
Chambers		1	1.07	1								
Chambers			2	1								
[TIMESERIES]												
;;Name	Date	1	Гime	V	alu	le						
;;												
;SCS_6h_38.8mm de	esign sto	rm,	total	rainf	all	. =	38.8	mm,	rain	units	=	${\tt mm/hr}$.
SCS_6h_38.8mm_2yr												
;SCS_6h_49.4mm de	esign sto	rm,	total	rainf	all	. =	49.4	mm,	rain	units	=	mm/hr.
SCS_6h_49.4mm_5yr	-											
;SCS_6h_65.3mm de	esign sto	rm,	total	rainf	all	=	65.3	mm,	rain	units	=	mm/hr.
SCS_6h_65.3mm_25	r											

;SCS_6h_71.9mm design storm, total rainfall = 71.9 mm, rain units = mm/hr. SCS_6h_71.9mm_50yr

;SCS_6h_78.4mm design storm, total rainfall = 78.4 mm, rain units = mm/hr. SCS_6h_78.4mm_100yr

[REPORT]

INPUT YES CONTROLS NO SUBCATCHMENTS ALL NODES ALL LINKS ALL

[TAGS]

[MAP]

DIMENSIONS 487273.258785991 4887144.81410314 487636.044150793 4887232.29437604 UNITS Meters

YONGE STREET TOWNHOUSES - SWM MODELLING - 2 YEAR DESIGN STORM EVENT

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.011)

* * * * * * *	* * * *	* * * *	
Element	C C C	ount ****	
Number	of	rain gages	5
Number	of	subcatchments	4
Number	of	nodes	5
Number	of	links	1
Number	of	pollutants	0
Number	of	land uses	0

* * * * * * * * * * * * * * * *

Raingage Summary

Name	Data Source	Data Type	Recording Interval
SCS_6h_38.8mm_2yr	SCS_6h_38.8mm_2yr	INTENSITY	5 min.
SCS_6h_49.4mm_5yr	SCS_6h_49.4mm_5yr	INTENSITY	5 min.
SCS_6h_65.3mm_25yr	SCS_6h_65.3mm_25yr	INTENSITY	5 min.
SCS_6h_71.9mm_50yr	SCS_6h_71.9mm_50yr	INTENSITY	5 min.
SCS_6h_78.4mm_100yr	SCS_6h_78.4mm_100yr		5 min.

Subcatchment Summary

Name	Area	Width	%Imperv	%Slope Rain Gage	Outlet
101	0.10	42.00	1.80	4.0000 SCS_6h_38.8mm_2yr	Pre_Yonge
102	0.58	88.00	0.00	40.0000 SCS_6h_38.8mm_2yr	Pre_Trees
201	0.19	125.00	75.00	4.0000 SCS_6h_38.8mm_2yr	SU1
202	0.49	88.00	10.60	33.0000 SCS_6h_38.8mm_2yr	Post_Trees

* * * * * * * * * * * *

Node Summary

* * * * * * * * * * * *

Name	Туре	Invert Elev.	Max. Depth	Ponded Area	External Inflow
Post_Trees	OUTFALL	0.00	0.00	0.0	
Post_Yonge	OUTFALL	257.73	0.00	0.0	
Pre_Trees	OUTFALL	0.00	0.00	0.0	
Pre_Yonge	OUTFALL	0.00	0.00	0.0	
SU1	STORAGE	257.58	2.02	0.0	

* * * * * * * * * * * *

Link Summary

* * * * * * * * * * * *									
lame From Node To		To Node	To Node Type		Lengt	h %Sl	ope Roughr	Roughness	
OR1	SU1	Post_Yonge	ORI	IFICE					
* * * * * * * * * * * * * * * * * *	* * * * * *								
Cross Section Su	ummary *****								
		Full	Full	Hvd.	Max.	No. of	Full		

Full Full Hyd. Max. No. of Full Conduit Shape Depth Area Rad. Width Barrels Flow

NOTE: The summary statistics displayed in this report are based on results found at every computational time step, not just on results from each reporting time step.

* * * * * * * * * * * * * * * *		
Analysis Options		
Flow Units	LPS	
Process Models:		
Raintall/Runott	YES	
Snowmelt	NO	
Groundwater	NO	
Flow Routing	YES	
Water Quality	NO	
Infiltration Method	CURVE_NUMBER	
Starting Date	07/09/2021 00:00:00)
Ending Date	07/10/2021 00:00:00)
Antecedent Dry Days	0.0	
Wet Time Step	00:01:00	
Dry Time Step	00:05:00	
Routing Time Step	5.00 sec	
Maximum Trials	8	
Number of Threads	1	
Head Tolerance	0.001524 m	
****	Volume	Depth
Runoff Quantity Continuity	hectare-m	mm
Total Precipitation	0.053	38.807
Evaporation Loss	0.000	0.000
Infiltration Loss	0.033	24.542 14 208
Final Storage	0.000	0.065
Continuity Error (%)	-0.021	
* * * * * * * * * * * * * * * * * * * *	Volume	Volume
Flow Routing Continuity	hectare-m	10^6 ltr
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	0.019	0.194
Groundwater Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	0.018	0.182
Flooding Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.001	0.011
continuity bitor (s)	0.000	
Time-Step Critical Elements	3	
****	*	
None		
* * * * * * * * * * * * * * * * * * * *	* * * * *	
Highest Flow Instability Ir	ndexes	
All links are stable.		
* * * * * * * * * * * * * * * * * * * *		
Routing Time Step Summary		
* * * * * * * * * * * * * * * * * * * *		
Minimum Time Step	: 4.50 sec	
Maximum Time Step	: 5.00 sec	
Percent in Steady State	: 0.00	
Average Iterations per Step Percent Not Converging	2.00 : 0.00	
	0.00	

Subcatchment Runoff Summary

Subcatchment	Total Precip mm	Total Runon mm	Total Evap mm	Total Infil mm	Total Runoff mm	Total Runoff 10^6 ltr	Peak Runoff LPS	Runoff Coeff
101	38.81	0.00	0.00	25.21	13.54	0.01	2.31	0.349
102	38.81	0.00	0.00	29.06	9.68	0.06	7.42	0.249
201	38.81	0.00	0.00	6.42	32.37	0.06	12.89	0.834
202	38.81	0.00	0.00	25.98	12.77	0.06	8.77	0.329

* * * * * * * * * * * * * * * * * * *

Node Depth Summary

Node	Туре	Average Depth Meters	Maximum Depth Meters	Maximum HGL Meters	Time Occu days	of Max rrence hr:min	Reported Max Depth Meters
Post_Trees Post_Yonge Pre_Trees Pre_Yonge SU1	OUTFALL OUTFALL OUTFALL STORAGE	0.00 0.00 0.00 0.00 0.19	0.00 0.00 0.00 0.00 0.34	0.00 257.73 0.00 0.00 257.92	0 0 0 0	00:00 00:00 00:00 00:00 03:56	0.00 0.00 0.00 0.00 0.34

Node	Туре	Maximum Lateral Inflow LPS	Maximum Total Inflow LPS	Time Occu days	of Max rrence hr:min	Lateral Inflow Volume 10^6 ltr	Total Inflow Volume 10^6 ltr	Flow Balance Error Percent
Post_Trees	OUTFALL	8.77	8.77	0	02:30	0.0631	0.0631	0.000
Post_Yonge	OUTFALL	0.00	2.29	0	03:56	0	0.0493	0.000
Pre_Trees	OUTFALL	7.42	7.42	0	02:30	0.0559	0.0559	0.000
Pre_Yonge	OUTFALL	2.31	2.31	0	02:30	0.0141	0.0141	0.000
SU1	STORAGE	12.89	12.89	0	02:25	0.0606	0.0606	0.002

Node Surcharge Summary

No nodes were surcharged.

No nodes were flooded.

Storage Unit	Average	Avg	Evap	Exfil	Maximum	Max	Time of Max	Maximum
	Volume	Pcnt	Pcnt	Pcnt	Volume	Pcnt	Occurrence	Outflow
	1000 m3	Full	Loss	Loss	1000 m3	Full	days hr:min	LPS
SU1	0.016	15	0	0	0.036	33	0 03:56	2.29

YONGE STREET TOWNHOUSES – SWM MODELLING – 2 YEAR DESIGN STORM EVENT

Outfall Node	Flow	Avg	Max	Total
	Freq	Flow	Flow	Volume
	Pcnt	LPS	LPS	10^6 ltr
Post_Trees	45.81	1.59	8.77	0.063
Post_Yonge	65.30	0.87	2.29	0.049
Pre_Trees	45.97	1.40	7.42	0.056
Pre_Yonge	29.38	0.54	2.31	0.014
System	46.61	4.39	20.48	0.182

Link Flow Summary

Link	Туре	Maximum Flow LPS	Time of Max Occurrence days hr:min	Maximum Veloc m/sec	Max/ Full Flow	Max/ Full Depth
OR1	ORIFICE	2.29	0 03:56			1.00

	Adjusted			Fract:	ion of	Time in Flow Class				
	/Actual		Up	Down	Sub	Sup	Up	Down	Norm	Inlet
Conduit	Length	Dry	Dry	Dry	Crit	Crit	Crit	Crit	Ltd	Ctrl

No conduits were surcharged.

Analysis begun on: Wed Oct 06 21:16:46 2021 Analysis ended on: Wed Oct 06 21:16:46 2021 Total elapsed time: < 1 sec
YONGE STREET TOWNHOUSES – SWM MODELLING – 5 YEAR DESIGN STORM EVENT

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.011)

* * * * * * *	* * * *	* * * *	
Element	C C C	ount * * * *	
Number	of	rain gages	5
Number	of	subcatchments	4
Number	of	nodes	5
Number	of	links	1
Number	of	pollutants	0
Number	of	land uses	0

* * * * * * * * * * * * * * * *

Raingage Summary

Name	Data Source	Data Type	Recording Interval
SCS_6h_38.8mm_2yr	SCS_6h_38.8mm_2yr	INTENSITY	5 min.
SCS_6h_49.4mm_5yr	SCS_6h_49.4mm_5yr	INTENSITY	5 min.
SCS_6h_65.3mm_25yr	SCS_6h_65.3mm_25yr	INTENSITY	5 min.
SCS_6h_71.9mm_50yr	SCS_6h_71.9mm_50yr	INTENSITY	5 min.
SCS_6h_78.4mm_100yr	SCS_6h_78.4mm_100yr		5 min.

Subcatchment Summary

Name	Area	Width	%Imperv	%Slope Rain Gage	Outlet
101	0.10	42.00	1.80	4.0000 SCS_6h_49.4mm_5yr	Pre_Yonge
102	0.58	88.00	0.00	40.0000 SCS_6h_49.4mm_5yr	Pre_Trees
201	0.19	125.00	75.00	4.0000 SCS_6h_49.4mm_5yr	SU1
202	0.49	88.00	10.60	33.0000 SCS_6h_49.4mm_5yr	Post_Trees

* * * * * * * * * * * *

Node Summary

* * * * * * * * * * * *

Name Type	Elev.	Depth	Area	Inflow
Post_TreesOUTFAIPost_YongeOUTFAIPre_TreesOUTFAIPre_YongeOUTFAISU1STORAGE	L 0.00 JL 257.73 JL 0.00 JL 0.00 SE 257.58	0.00 0.00 0.00 0.00 2.02	0.0 0.0 0.0 0.0 0.0	

* * * * * * * * * * * *

Link Summary

Name	From Node	To Node	Ту	ре	Leng	th	%Slope	Roughness
OR1	SU1	Post_Yonge	OR	IFICE				
**************************************	***** mmary ****							
		Full	Full	Hvd	Max	No	of	Full

		FULL	FULL	нуа.	Max.	NO. OI	FULL
Conduit	Shape	Depth	Area	Rad.	Width	Barrels	Flow

NOTE: The summary statistics displayed in this report are based on results found at every computational time step, not just on results from each reporting time step.

* * * * * * * * * * * * * * *		
Analysis Options		
****	1.50	
Flow Units	LPS	
Rainfall/Runoff	VES	
RDII	NO	
Snowmelt	NO	
Groundwater	NO	
Flow Routing	YES	
Ponding Allowed	NO	
Infiltration Method	CURVE NUMBER	
Flow Routing Method	DYNWAVE	
Starting Date	07/09/2021 00:00:0	0
Ending Date	07/10/2021 00:00:0	0
Antecedent Dry Days	0.0	
Report Time Step	00:01:00	
Dry Time Step	00:05:00	
Routing Time Step	5.00 sec	
Variable Time Step	YES	
Maximum Trials	8	
Number of Threads	1	
Head Tolerance	0.001524 m	
* * * * * * * * * * * * * * * * * * * *	Volume	Depth
Runoff Quantity Continuity	hectare-m	mm
* * * * * * * * * * * * * * * * * * * *		
Total Precipitation	0.067	49.408
Evaporation Loss	0.000	0.000
Surface Runoff	0.027	20.143
Final Storage	0.000	0.066
Continuity Error (%)	-0.024	
* * * * * * * * * * * * * * * * * * * *	Volume	Volume
Flow Routing Continuity	hectare-m	10^6 ltr

Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	0.027	0.274
Groundwater Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	0.026	0.263
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Final Stored Volume	0.000	0.000
Continuity Error (%)	0.001	0.011
	0.000	
***************************************	f	
Time-Step Critical Elements	3	
None		
*****	* * * * *	
Highest Flow Instability Ir	idexes	
All links are stable		
itali are scapie.		
* * * * * * * * * * * * * * * * * * * *		
Routing Time Step Summary		
Routing Time Step Summary	: 4.50 sec	
Routing Time Step Summary ************************************	: 4.50 sec : 5.00 sec	
Routing Time Step Summary ************************************	: 4.50 sec : 5.00 sec : 5.00 sec	
Routing Time Step Summary ************************************	: 4.50 sec : 5.00 sec : 5.00 sec : 0.00	
Routing Time Step Summary ************************************	: 4.50 sec : 5.00 sec : 5.00 sec : 0.00 o : 2.00	

Subcatchment Runoff Summary

Subcatchment	Total Precip mm	Total Runon mm	Total Evap mm	Total Infil mm	Total Runoff mm	Total Runoff 10^6 ltr	Peak Runoff LPS	Runoff Coeff
101	49.41	0.00	0.00	29.45	19.91	0.02	3.72	0.403
102 201	49.41 49.41	0.00	0.00	34.72 7.48	14.63 41.91	0.08 0.08	12.97 16.75	0.296 0.848
202	49.41	0.00	0.00	30.95	18.40	0.09	13.90	0.372

* * * * * * * * * * * * * * * * * * *

Node Depth Summary

Node		Average Depth Meters	Maximum Depth Meters	 Maximum HGL Meters	Time Occu days	of Max rrence hr:min	Reported Max Depth Meters
Post_Trees	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
Post_fonge Pre_Trees Pre_Yonge	OUTFALL OUTFALL OUTFALL	0.00	0.00	257.73 0.00 0.00	0	00:00	0.00
SUI	STORAGE	0.21	0.42	258.00	0	03:57	0.42

Node	Туре	Maximum Lateral Inflow LPS	Maximum Total Inflow LPS	Time Occu days	of Max rrence hr:min	Lateral Inflow Volume 10^6 ltr	Total Inflow Volume 10^6 ltr	Flow Balance Error Percent
Post_Trees	OUTFALL	13.90	13.90	0	02:30	0.0909	0.0909	0.000
Post_Yonge	OUTFALL	0.00	2.82	0	03:57	0	0.0671	0.000
Pre_Trees	OUTFALL	12.97	12.97	0	02:30	0.0844	0.0844	0.000
Pre_Yonge	OUTFALL	3.72	3.72	0	02:30	0.0207	0.0207	0.000
SU1	STORAGE	16.75	16.75	0	02:25	0.0784	0.0784	0.002

Node Surcharge Summary

No nodes were surcharged.

No nodes were flooded.

Storage Unit	Average	Avg	Evap	Exfil	Maximum	Max	Time of Max	Maximum
	Volume	Pcnt	Pcnt	Pcnt	Volume	Pcnt	Occurrence	Outflow
	1000 m3	Full	Loss	Loss	1000 m3	Full	days hr:min	LPS
SU1	0.019	18	0	0	0.047	43	0 03:57	2.82

YONGE STREET TOWNHOUSES – SWM MODELLING – 5 YEAR DESIGN STORM EVENT

Outfall Node	Flow	Avg	Max	Total
	Freq	Flow	Flow	Volume
	Pcnt	LPS	LPS	10^6 ltr
Post_Trees	46.61	2.25	13.90	0.091
Post_Yonge	71.36	1.08	2.82	0.067
Pre_Trees	47.36	2.05	12.97	0.084
Pre_Yonge	31.25	0.76	3.72	0.021
System	49.15	6.14	33.06	0.263

Link Flow Summary

Link	Туре	Maximum Flow LPS	Time of Max Occurrence days hr:min	Maximum Veloc m/sec	Max/ Full Flow	Max/ Full Depth
OR1	ORIFICE	2.82	0 03:57			1.00

	Adjusted			Fract:	ion of	Time	in Flo	w Clas	s	
	/Actual		Up	Down	Sub	Sup	Up	Down	Norm	Inlet
Conduit	Length	Dry	Dry	Dry	Crit	Crit	Crit	Crit	Ltd	Ctrl

No conduits were surcharged.

Analysis begun on: Wed Oct 06 21:17:41 2021 Analysis ended on: Wed Oct 06 21:17:41 2021 Total elapsed time: < 1 sec

YONGE STREET TOWNHOUSES - SWM MODELLING - 25 YEAR DESIGN STORM EVENT

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.011)

* * * * * * *	* * * *	* * * *	
Element	C C	ount	
* * * * * * *	* * * *	* * * *	
Number	of	rain gages	5
Number	of	subcatchments	4
Number	of	nodes	5
Number	of	links	1
Number	of	pollutants	0
Number	of	land uses	0

* * * * * * * * * * * * * * * *

Raingage Summary

Name	Data Source	Data Type	Recording Interval
SCS_6h_38.8mm_2yr	SCS_6h_38.8mm_2yr	INTENSITY	5 min.
SCS_6h_49.4mm_5yr	SCS_6h_49.4mm_5yr	INTENSITY	5 min.
SCS_6h_65.3mm_25yr	SCS_6h_65.3mm_25yr	INTENSITY	5 min.
SCS_6h_71.9mm_50yr	SCS_6h_71.9mm_50yr	INTENSITY	5 min.
SCS_6h_78.4mm_100yr	SCS_6h_78.4mm_100yr		5 min.

Subcatchment Summary

Name	Area	Width	%Imperv	%Slope Rain Gage	Outlet
101	0.10	42.00	1.80	4.0000 SCS_6h_65.3mm_25yr	Pre_Yonge
102	0.58	88.00	0.00	40.0000 SCS_6h_65.3mm_25yr	Pre_Trees
201	0.19	125.00	75.00	4.0000 SCS_6h_65.3mm_25yr	SU1
202	0.49	88.00	10.60	33.0000 SCS_6h_65.3mm_25yr	Post_Trees

* * * * * * * * * * * *

Node Summary

* * * * * * * * * * *

Name	Туре	Invert Elev.	Max. Depth	Ponded Area	External Inflow
Post_Trees	OUTFALL	0.00	0.00	0.0	
Post_Yonge	OUTFALL	257.73	0.00	0.0	
Pre_Trees	OUTFALL	0.00	0.00	0.0	
Pre_Yonge	OUTFALL	0.00	0.00	0.0	
SU1	STORAGE	257.58	2.02	0.0	

* * * * * * * * * * * *

Link Summary

~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~					
Name	From Node	To Node	Туре	Length	%Slope Roughness
OR1	SU1	Post_Yonge	ORIFICE		
* * * * * * * * * * * * * * * *	* * * * * *				
Cross Section St	ummary *****				
					c

Conduit	Shape	Depth	Area	Rad.	Width	Barrels	Flow
		FULL	FULL	нуа.	Max.	NO. OI	FULL

NOTE: The summary statistics displayed in this report are based on results found at every computational time step, not just on results from each reporting time step.

* * * * * * * * * * * * * * *		
Analysis Options		
* * * * * * * * * * * * * * * *		
Flow Units	LPS	
Process Models:	VEO	
RDIT	NO	
Snowmelt	NO	
Groundwater	NO	
Flow Routing	YES	
Ponding Allowed	NO	
Water Quality	NO	
Infiltration Method	CURVE_NUMBER	
Flow Routing Method	DINWAVE 07/09/2021 00.00.0	0
Ending Date	07/10/2021 00:00:0	10
Antecedent Dry Days	0.0	
Report Time Step	00:01:00	
Wet Time Step	00:05:00	
Dry Time Step	00:05:00	
Routing Time Step	5.00 sec	
Variable Time Step	YES	
Maximum Irials	8	
Head Tolerance	⊥ 0 001524 m	
	0.001521	
* * * * * * * * * * * * * * * * * * * *	Volume	Depth
Runoff Quantity Continuity	hectare-m	mm
* * * * * * * * * * * * * * * * * * * *		
Total Precipitation	0.089	65.310
Evaporation Loss	0.000	0.000
Surface Runoff	0.048	30 075
Final Storage	0.000	0.066
Continuity Error (%)	-0.030	0.000
-		
************************	Volume	Volume
Flow Routing Continuity	hectare-m	10^6 Itr
Dry Westher Inflow	0.000	0 000
Wet Weather Inflow	0.000	0.000
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	0.040	0.398
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.001	0.011
continuity Error (%)	0.000	
* * * * * * * * * * * * * * * * * * * *		
Time-Step Critical Elements	5	
* * * * * * * * * * * * * * * * * * * *		
None		
* * * * * * * * * * * * * * * * * * * *	* * * * *	
Highest Flow Instability In	devec	
***************************************	****	
All links are stable.		

Routing Time Step Summary		
**************************************	. 1 50	
Average Time Step	• 4.50 SEC	
Maximum Time Step	: 5.00 sec	
Percent in Steady State	: 0.00	
Average Iterations per Ster	2.00	

Subcatchment Runoff Summary

Subcatchment	Total Precip mm	Total Runon mm	Total Evap mm	Total Infil mm	Total Runoff mm	Total Runoff 10^6 ltr	Peak Runoff LPS	Runoff Coeff
101	 65.31	0.00	0.00	34.61	30.67	0.03	6.16	0.470
102	65.31	0.00	0.00	41.95	23.31	0.13	23.45	0.357
201	65.31	0.00	0.00	8.77	56.52	0.11	22.70	0.865
202	65.31	0.00	0.00	37.41	27.85	0.14	23.45	0.426

* * * * * * * * * * * * * * * * * * *

Node Depth Summary

Node	Туре	Average Depth Meters	Maximum Depth Meters	Maximum HGL Meters	Time Occu days	of Max rrence hr:min	Reported Max Depth Meters
Post_Trees Post_Yonge Pre_Trees Pre_Yonge SU1	OUTFALL OUTFALL OUTFALL OUTFALL STORAGE	0.00 0.00 0.00 0.00 0.25	0.00 0.00 0.00 0.00 0.57	0.00 257.73 0.00 0.00 258.15	0 0 0 0 0	00:00 00:00 00:00 00:00 00:00 03:58	0.00 0.00 0.00 0.00 0.57

Node	Туре	Maximum Lateral Inflow LPS	Maximum Total Inflow LPS	Time Occu days	of Max rrence hr:min	Lateral Inflow Volume 10^6 ltr	Total Inflow Volume 10^6 ltr	Flow Balance Error Percent
Post_Trees	OUTFALL	23.45	23.45	0	02:30	0.138	0.138	0.000
Post_Yonge	OUTFALL	0.00	3.54	0	03:58	0	0.0944	0.000
Pre_Trees	OUTFALL	23.45	23.45	0	02:30	0.134	0.134	0.000
Pre_Yonge	OUTFALL	6.16	6.16	0	02:30	0.0319	0.0319	0.000
SU1	STORAGE	22.70	22.70	0	02:25	0.106	0.106	0.001

Node Surcharge Summary

No nodes were surcharged.

No nodes were flooded.

Storage Unit	Average	Avg	Evap	Exfil	Maximum	Max	Time of Max	Maximum
	Volume	Pcnt	Pcnt	Pcnt	Volume	Pcnt	Occurrence	Outflow
	1000 m3	Full	Loss	Loss	1000 m3	Full	days hr:min	LPS
SU1	0.025	23	0	0	0.064	 59	0 03:58	3.54

YONGE STREET TOWNHOUSES – SWM MODELLING – 25 YEAR DESIGN STORM EVENT

Outfall Node	Flow	Avg	Max	Total
	Freq	Flow	Flow	Volume
	Pcnt	LPS	LPS	10^6 ltr
Post_Trees	47.13	3.37	23.45	0.138
Post_Yonge	79.10	1.38	3.54	0.094
Pre_Trees	48.79	3.18	23.45	0.134
Pre_Yonge	32.34	1.13	6.16	0.032
System	51.84	9.06	56.12	0.398

Link Flow Summary

Link	Туре	Maximum Flow LPS	Time of Max Occurrence days hr:min	Maximum Veloc m/sec	Max/ Full Flow	Max/ Full Depth
OR1	ORIFICE	3.54	0 03:58			1.00

Flow Classification Summary

	Adjusted			Fracti	ion of	Time	in Flov	v Class	 5	
	/Actual		Up	Down	Sub	Sup	Up	Down	Norm	Inlet
Conduit	Length	Dry	Dry	Dry	Crit	Crit	Crit	Crit	Ltd	Ctrl

No conduits were surcharged.

Analysis begun on: Wed Oct 06 21:20:24 2021 Analysis ended on: Wed Oct 06 21:20:24 2021 Total elapsed time: < 1 sec

YONGE STREET TOWNHOUSES - SWM MODELLING - 50 YEAR DESIGN STORM EVENT

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.011) _____

*****	****	* * * *							
Element Count									
* * * * * * *	* * * :	* * * *							
Number	of	rain gages	5						
Number	of	subcatchments	4						
Number	of	nodes	5						
Number	of	links	1						
Number	of	pollutants	0						
Number	of	land uses	0						

Raingage Summary

Name	Data Source	Data Type	Recording Interval
SCS_6h_38.8mm_2yr	SCS_6h_38.8mm_2yr	INTENSITY	5 min.
SCS_6h_49.4mm_5yr	SCS_6h_49.4mm_5yr	INTENSITY	5 min.
SCS_6h_65.3mm_25yr	SCS_6h_65.3mm_25yr	INTENSITY	5 min.
SCS_6h_71.9mm_50yr	SCS_6h_71.9mm_50yr	INTENSITY	5 min.
SCS_6h_78.4mm_100yr	SCS_6h_78.4mm_100yr		5 min.

Subcatchment Summary *******************

Name	Area	Width	%Imperv	%Slope Rain Gage	Outlet
101	0.10	42.00	1.80	4.0000 SCS_6h_71.9mm_50yr	Pre_Yonge
102	0.58	88.00	0.00	40.0000 SCS_6h_71.9mm_50yr	Pre_Trees
201	0.19	125.00	75.00	4.0000 SCS_6h_71.9mm_50yr	SU1
202	0.49	88.00	10.60	33.0000 SCS_6h_71.9mm_50yr	Post_Trees

Node Summary ******

Name	Туре	Invert Elev.	Max. Depth	Ponded Area	External Inflow
Post_Trees	OUTFALL	0.00	0.00	0.0	
Post_Yonge	OUTFALL	257.73	0.00	0.0	
Pre_Trees	OUTFALL	0.00	0.00	0.0	
Pre_Yonge	OUTFALL	0.00	0.00	0.0	
SU1	STORAGE	257.58	2.02	0.0	

* * * * * * * * * * * *

Link Summary

* * * * * * * * * * * *					
Name	From Node	To Node	Туре	Length	%Slope Roughness
OR1	SU1	Post_Yonge	ORIFICE		
* * * * * * * * * * * * * * *	* * * * * * *				
Cross Section *********	Summary				
		- 11	T-11 TT-1		6 7 11

Conduit	Shape	Depth	Area	Rad.	Width	Barrels	Flow
		Full	Full	Hya.	Max.	NO. OI	Full

NOTE: The summary statistics displayed in this report are based on results found at every computational time step, not just on results from each reporting time step. ****

* * * * * * * * * * * * * * *		
Analysis Options		
* * * * * * * * * * * * * * * *		
Flow Units	LPS	
Process Models:	VEO	
RAINIAII/RUNOII	ILS NO	
RDII Snowmelt	NO	
Groundwater	NO	
Flow Routing	YES	
Ponding Allowed	NO	
Water Quality	NO	
Infiltration Method	CURVE_NUMBER	
Flow Routing Method	DYNWAVE	
Starting Date	07/09/2021 00:00:00)
Ending Date	07/10/2021 00:00:00)
Antecedent Dry Days	0.0	
Wet Time Step	00:05:00	
Dry Time Step	00:05:00	
Routing Time Step	5.00 sec	
Variable Time Step	YES	
Maximum Trials	8	
Number of Threads	1	
Head Tolerance	0.001524 m	
* * * * * * * * * * * * * * * * * * * *	77.0]	Denth
Bunoff Quantity Continuity	volume	Depth

Total Precipitation	0.098	71,911
Evaporation Loss	0.000	0.000
Infiltration Loss	0.051	37.414
Surface Runoff	0.047	34.454
Final Storage	0.000	0.066
Continuity Error (%)	-0.032	
* * * * * * * * * * * * * * * * * * * *	Volume	Volume
Flow Routing Continuity	hectare-m	10^6 ltr

Drv Weather Inflow	0.000	0.000
Wet Weather Inflow	0.047	0.469
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	0.046	0.458
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.001	0.011
Continuity Error (%)	0.000	
-		

Time-Step Critical Elements	5	
Nono	•	
NONE		
* * * * * * * * * * * * * * * * * * * *	* * * * *	
Highest Flow Instability In	ndexes	
* * * * * * * * * * * * * * * * * * * *	* * * * *	
All links are stable.		
* * * * * * * * * * * * * * * * * * * *		
Routing Time Step Summary		

Minimum Time Step	: 4.50 sec	
Average Time Step	: 5.00 sec	
Maximum Time Step	: 5.00 sec	
Average Iterations por State	· U.UU	
Percent Not Converging	: 0.00	

Subcatchment Runoff Summary

Subcatchment	Total Precip mm	Total Runon mm	Total Evap mm	Total Infil mm	Total Runoff mm	Total Runoff 10^6 ltr	Peak Runoff LPS	Runoff Coeff
101	71.91	0.00	0.00	36.39	35.48	0.04	7.32	0.493
102	71.91	0.00	0.00	44.66	27.20	0.16	28.38	0.378
201	71.91	0.00	0.00	9.23	62.66	0.12	25.20	0.871
202	71.91	0.00	0.00	39.83	32.03	0.16	27.95	0.445

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Node Depth Summary

Node	Туре	Average Depth Meters	Maximum Depth Meters	Maximum HGL Meters	Time Occu days	of Max rrence hr:min	Reported Max Depth Meters
Post_Trees Post_Yonge Pre_Trees Pre_Yonge SU1	OUTFALL OUTFALL OUTFALL STORAGE	0.00 0.00 0.00 0.00 0.27	0.00 0.00 0.00 0.00 0.63	0.00 257.73 0.00 0.00 258.21	0 0 0 0	00:00 00:00 00:00 00:00 03:59	0.00 0.00 0.00 0.00 0.63

Node	Туре	Maximum Lateral Inflow LPS	Maximum Total Inflow LPS	Time Occu days	of Max rrence hr:min	Lateral Inflow Volume 10^6 ltr	Total Inflow Volume 10^6 ltr	Flow Balance Error Percent
Post_Trees	OUTFALL	27.95	27.95	0	02:30	0.158	0.158	0.000
Post_Yonge	OUTFALL	0.00	3.81	0	03:59	0	0.106	0.000
Pre_Trees	OUTFALL	28.38	28.38	0	02:30	0.157	0.157	0.000
Pre_Yonge	OUTFALL	7.32	7.32	0	02:25	0.0369	0.0369	0.000
SU1	STORAGE	25.20	25.20	0	02:25	0.117	0.117	0.001

Node Surcharge Summary

No nodes were surcharged.

No nodes were flooded.

Storage Unit	Average	Avg	Evap	Exfil	Maximum	Max	Time of Max	Maximum
	Volume	Pcnt	Pcnt	Pcnt	Volume	Pcnt	Occurrence	Outflow
	1000 m3	Full	Loss	Loss	1000 m3	Full	days hr:min	LPS
SU1	0.027	25	0	0	0.072	66	0 03:59	3.81

YONGE STREET TOWNHOUSES – SWM MODELLING – 50 YEAR DESIGN STORM EVENT

Outfall Node	Flow	Avg	Max	Total
	Freq	Flow	Flow	Volume
	Pcnt	LPS	LPS	10^6 ltr
Post_Trees	47.08	3.88	27.95	0.158
Post_Yonge	81.92	1.49	3.81	0.106
Pre_Trees	48.96	3.70	28.38	0.157
Pre_Yonge	32.64	1.30	7.32	0.037
System	52.65	10.37	66.88	0.458

Link Flow Summary

Link	Туре	Maximum Flow LPS	Time of Max Occurrence days hr:min	Maximum Veloc m/sec	Max/ Full Flow	Max/ Full Depth
OR1	ORIFICE	3.81	0 03:59			1.00

	Adjusted			Fracti	ion of	Time	in Flov	v Class	 5	
	/Actual		Up	Down	Sub	Sup	Up	Down	Norm	Inlet
Conduit	Length	Dry	Dry	Dry	Crit	Crit	Crit	Crit	Ltd	Ctrl

No conduits were surcharged.

Analysis begun on: Wed Oct 06 21:19:45 2021 Analysis ended on: Wed Oct 06 21:19:45 2021 Total elapsed time: < 1 sec

YONGE STREET TOWNHOUSES - SWM MODELLING - 100 YEAR DESIGN STORM EVENT

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.011)

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~ ~ ~ ~ ~ ~ ~ ~			
Element	c Co	ount	
******	****	* * * *	
	-		_
Number	oİ	rain gages	5
Number	of	subcatchments	4
Number	of	nodes	5
Number	of	links	1
Number	of	pollutants	0
Number	of	land uses	0

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Raingage Summary

Name	Data Source	Data Type	Recording Interval
SCS_6h_38.8mm_2yr	SCS_6h_38.8mm_2yr	INTENSITY	5 min.
SCS_6h_49.4mm_5yr	SCS_6h_49.4mm_5yr	INTENSITY	5 min.
SCS_6h_65.3mm_25yr	SCS_6h_65.3mm_25yr	INTENSITY	5 min.
SCS_6h_71.9mm_50yr	SCS_6h_71.9mm_50yr	INTENSITY	5 min.
SCS_6h_78.4mm_100yr	SCS_6h_78.4mm_100yr		5 min.

Subcatchment Summary

Name	Area	Width	%Imperv	%Slope Rain Gage	Outlet
101	0.10	42.00	1.80	4.0000 SCS_6h_78.4mm_100yr	Pre_Yonge
102	0.58	88.00	0.00	40.0000 SCS_6h_78.4mm_100yr	Pre_Trees
201	0.19	125.00	75.00	4.0000 SCS_6h_78.4mm_100yr	SU1
202	0.49	88.00	10.60	33.0000 SCS_6h_78.4mm_100yr	Post_Trees

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Node Summary

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Name	Туре	Invert Elev.	Max. Depth	Ponded Area	External Inflow
Post_Trees	OUTFALL	0.00	0.00	0.0	
Post_Yonge	OUTFALL	257.73	0.00	0.0	
Pre_Trees	OUTFALL	0.00	0.00	0.0	
Pre_Yonge	OUTFALL	0.00	0.00	0.0	
SU1	STORAGE	257.58	2.02	0.0	

* * * * * * * * * * * *

Link Summary

Name	From Node	To Node	Туре	Length	%Slope Roughness				
OR1	SU1	Post_Yonge	ORIFICE						
**************************************	***** ummary *****								
		m	T-11 T-1	Mara Ma	of []]				

Full Full Hyd. Max. No. of Full Conduit Shape Depth Area Rad. Width Barrels Flow

NOTE: The summary statistics displayed in this report are based on results found at every computational time step, not just on results from each reporting time step.

* * * * * * * * * * * * * * *		
Analysis Options		
* * * * * * * * * * * * * * * *		
Flow Units	LPS	
Process Models:	100	
Rainiali/Runoii	YES	
Snowmelt	NO	
Groundwater	NO	
Flow Routing	YES	
Ponding Allowed	NO	
Water Quality	NO	
Infiltration Method	CURVE_NUMBER	
Flow Routing Method	DYNWAVE	
Starting Date	07/09/2021 00:00:00)
Ending Date	07/10/2021 00:00:00)
Antecedent Dry Days	0.0	
Wet Time Step	00:05:00	
Dry Time Step	00:05:00	
Routing Time Step	5.00 sec	
Variable Time Step	YES	
Maximum Trials	8	
Number of Threads	1	
Head Tolerance	0.001524 m	
	TT - 1	Denth
Bunoff Quantity Continuity	Volume hostaro-m	Deptn

Total Precipitation	0.107	78,413
Evaporation Loss	0.000	0.000
Infiltration Loss	0.054	39.391
Surface Runoff	0.053	38.983
Final Storage	0.000	0.066
Continuity Error (%)	-0.034	
	77 -]	TT - 1
Elev Douting Continuity	Volume hostoro m	Volume
FIOW ROULING CONLINUILY	nectare-m	IU 6 ILF
Dry Weather Inflow	0 000	0 000
Wet Weather Inflow	0.053	0.531
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	0.052	0.520
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
EXILITATION LOSS	0.000	0.000
Final Stored Volume	0.000	0.000
Continuity Error (%)	0.000	0.011
* * * * * * * * * * * * * * * * * * * *	e -	
Time-Step Critical Elements	3	

None		
* * * * * * * * * * * * * * * * * * * *	* * * * *	
Highest Flow Instability Ir	ndexes	
* * * * * * * * * * * * * * * * * * * *	* * * * *	
All links are stable.		
Politing Time Stop Commerce		

Minimum Time Step	: 4.50 sec	
Average Time Step	: 5.00 sec	
Maximum Time Step	: 5.00 sec	
Percent in Steady State	: 0.00	
Average Iterations per Step	o: 2.00	
Percent Not Converging	: 0.00	

Subcatchment Runoff Summary

Subcatchment	Total Precip mm	Total Runon mm	Total Evap mm	Total Infil mm	Total Runoff mm	Total Runoff 10^6 ltr	Peak Runoff LPS	Runoff Coeff
101	78.41	0.00	0.00	38.08	40.31	0.04	8.53	0.514
102	78.41	0.00	0.00	47.06	31.31	0.18	33.52	0.399
201	78.41	0.00	0.00	9.64	68.76	0.13	27.69	0.877
202	78.41	0.00	0.00	41.97	36.40	0.18	32.64	0.464

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Node Depth Summary

Node	Туре	Average Depth Meters	Maximum Depth Meters	Maximum HGL Meters	Time Occu days	of Max rrence hr:min	Reported Max Depth Meters
Post_Trees Post_Yonge Pre_Trees Pre_Yonge SUI	OUTFALL OUTFALL OUTFALL STORAGE	0.00 0.00 0.00 0.00 0.29	0.00 0.00 0.00 0.00 0.00	0.00 257.73 0.00 0.00 258.28	0 0 0 0	00:00 00:00 00:00 00:00 03:59	0.00 0.00 0.00 0.00 0.00

Node	Туре	Maximum Lateral Inflow LPS	Maximum Total Inflow LPS	Time Occu days	of Max rrence hr:min	Lateral Inflow Volume 10^6 ltr	Total Inflow Volume 10^6 ltr	Flow Balance Error Percent
Post_Trees	OUTFALL	32.64	32.64	0	02:30	0.18	0.18	0.000
Post_Yonge	OUTFALL	0.00	4.09	0	03:59	0	0.117	0.000
Pre_Trees	OUTFALL	33.52	33.52	0	02:30	0.181	0.181	0.000
Pre_Yonge	OUTFALL	8.53	8.53	0	02:25	0.0419	0.0419	0.000
SU1	STORAGE	27.69	27.69	0	02:25	0.129	0.129	0.001

Node Surcharge Summary

No nodes were surcharged.

No nodes were flooded.

Storage Unit	Average	Avg	Evap	Exfil	Maximum	Max	Time of Max	Maximum
	Volume	Pcnt	Pcnt	Pcnt	Volume	Pcnt	Occurrence	Outflow
	1000 m3	Full	Loss	Loss	1000 m3	Full	days hr:min	LPS
SU1	0.029	27	0	0	0.079	72	0 03:59	4.09

YONGE STREET TOWNHOUSES - SWM MODELLING - 100 YEAR DESIGN STORM EVENT

Outfall Node	Flow	Avg	Max	Total
	Freq	Flow	Flow	Volume
	Pcnt	LPS	LPS	10^6 ltr
Post_Trees	47.31	4.39	32.64	0.180
Post_Yonge	84.50	1.60	4.09	0.117
Pre_Trees	49.45	4.22	33.52	0.181
Pre_Yonge	33.21	1.45	8.53	0.042
System	53.62	11.66	78.03	0.520

Link Flow Summary

Link	Туре	Maximum Flow LPS	Time of Max Occurrence days hr:min	Maximum Veloc m/sec	Max/ Full Flow	Max/ Full Depth
OR1	ORIFICE	4.09	0 03:59			1.00

Flow Classification Summary

	Adjusted			Fract:	ion of	Time in Flow Class				
	/Actual		Up	Down	Sub	Sup	Up	Down	Norm	Inlet
Conduit	Length	Dry	Dry	Dry	Crit	Crit	Crit	Crit	Ltd	Ctrl

No conduits were surcharged.

Analysis begun on: Wed Oct 06 21:20:56 2021 Analysis ended on: Wed Oct 06 21:20:56 2021 Total elapsed time: < 1 sec