



DEVELOPMENT SERVICES MEMORANDUM

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2021
Pending #:

TO: MAYOR A. NUTTALL AND MEMBERS OF COUNCIL

FROM: G. MATTHIE, P. ENG., SENIOR DEVELOPMENT SERVICES TECHNOLOGIST
B. PERREAULT, C.E.T., MANAGER OF APPROVALS

WARD: 6

NOTED: MICHELLE BANFIELD, RPP, DIRECTOR OF DEVELOPMENT SERVICES
B. ARANIYASUNDARAN, P. ENG, PMP, GENERAL MANAGER OF
INFRASTRUCTURE AND GROWTH MANAGEMENT
M. PROWSE, CHIEF ADMINISTRATIVE OFFICER

RE: 108 HARVIE RD SUBDIVISION ASA DEVELOPMENTS – APPROVAL OF
ENGINEERING CONDITIONS AND DRAWINGS

DATE: JANUARY 10, 2024

We are pleased to inform you that in compliance with General Committee Motion 09-G-391 (Appendix "A") the Engineering Conditions and Drawings associated with the 108 Harvey Road subdivision (ASA Developments) are substantially finalized. The ASA Developments subdivision is located on the north side of Harvie Road, east of Essa Rd. - see Appendix "B".

Approval of the Engineering Conditions and Drawings will clear the way for registration of the Plan of Subdivision (subject to certain financial and legal conditions) and for the initiation of full construction, anticipated to start in 2024.

A copy of the Engineering Conditions has been uploaded accompanying this memo for your review – see Appendix "C". Please forward any questions or comments to B. Perreault, Manager of Approvals, Development Services at Barb.Perreault@barrie.ca by January 24, 2024.

Attachments: Appendix "A" – General Committee Motion 09-G-391
Appendix "B" – ASA Developments Subdivision Map
Appendix "C" – ASA Developments Subdivision - Engineering Conditions



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APPENDIX "A"

General Committee Motion 09-G-391



City Clerk's Office
COUNCIL DIRECTION MEMORANDUM

TO: Director of Engineering
City Clerk

FROM: Dawn McAlpine, City Clerk

DATE APPROVED
BY COUNCIL: September 28, 2009

**09-G-391 REVISION TO CURRENT PRACTICE REGARDING COUNCIL APPROVAL OF
ENGINEERING CONDITIONS AND DRAWINGS FOR PLANS OF SUBDIVISION**

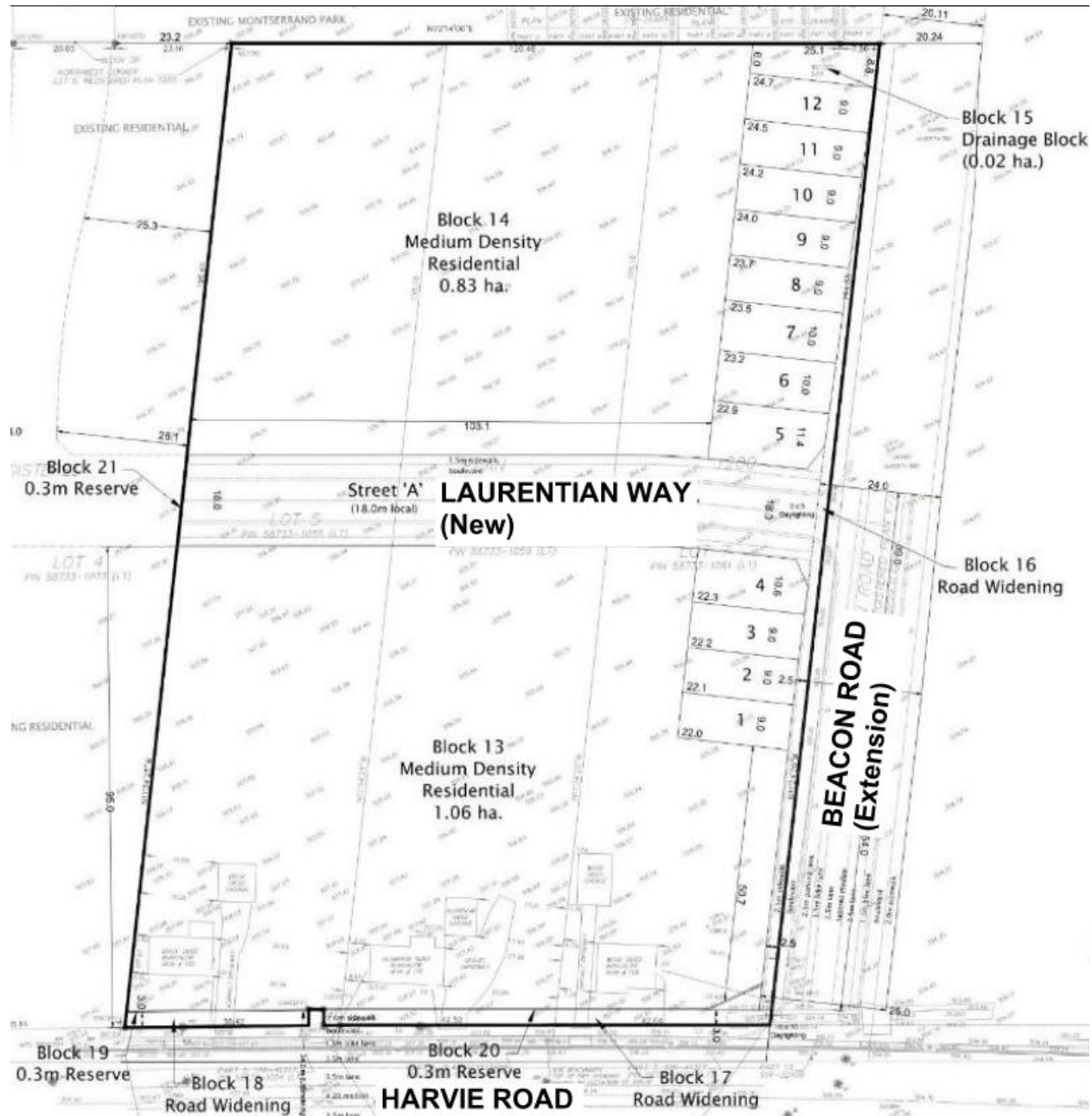
1. That the Director of Engineering be authorized to approve Engineering Conditions and associated Engineering Drawings for proposed plans of subdivision prior to registration of the plan.
2. That prior to final technical approval of Engineering Conditions and Drawings, members of Council be provided an opportunity to review and provide comments regarding the proposed Engineering Conditions and Drawings.
3. That at the request of any Member of Council the proposed Engineering Conditions and Drawings could be "bumped up" to General Committee for further consideration. (ENG052-09) (File: D12-GE)

Direction:

Director of Engineering - note
City Clerk - note

APPENDIX "B"

ASA Developments Subdivision Map



APPENDIX "C"

ASA Developments Subdivision - Engineering Conditions

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ENGINEERING CONDITIONS

FOR

ASA Development Inc.
RESIDENTIAL PLAN OF SUBDIVISION – 108 Harvie Road

A proposed residential development – located on the north side of Harvie Road (108 Harvie Road) to the west of the Beacon Road extension south to Harvie Road.

SPECIAL CONDITIONS

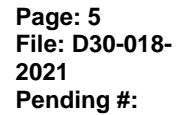
These special conditions, along with the general conditions, constitute the overall conditions for this development.

1.0 General

- 1.1 These Engineering Conditions, as described herein, may be revised at the discretion of the City of Barrie after one (1) year from the date of approval, unless the plan is registered within this time frame.
- 1.2 The general requirements for roads, municipal services and drainage are shown on drawings: ND-1 to ND-4, GS-1, SAN-1, STM-1 to STM-3, PD-1, CUP-1, WM-1, LG-1, PP-1 & PP-2, and EP-1 as prepared by Pearson Engineering (project number 21092). The Works are to be installed as per the approved drawings to the satisfaction of the Development Services Department.
- 1.3 Pavement marking and signage plans as shown on drawing 21067-PMSP, as prepared by JD Northcote Engineering Inc. The Works are to be installed as per the approved drawings to the satisfaction of the Development Services Department.
- 1.4 Street lighting and photometrics as shown on drawing 22-114-PM1 to PM3, 22-114-ST1 to ST2, 22-114-SC1 and 22-114-TR1 as prepared by DATOM Group Lt. Electrical Engineering. The Works are to be installed as per the approved drawings to the satisfaction of the Development Services Department.
- 1.5 The general requirements for Landscape/ Streetscape, fencing, planting & details as shown on drawing numbers L-1, LD-1 of project number 15-21, as prepared by JDB Associates Ltd. The Works are to be installed as per the approved drawings to the satisfaction of the Development Services Department.
- 1.6 The general requirements for Tree Inventory and Protection Plan and Details as shown on drawing numbers TP-1, TP-2 of project number 15-21, as prepared by JDB Associates Ltd. The Works are to be carried out as per the approved plans and to the satisfaction of the Development Services Department.
- 1.7 The owner will be responsible for adhering to all conditions and issues dealing with transportation, servicing, stormwater management (SWM) and other related issues, outlined within associated Master Plans, the Multi Modal Active Transportation Master Plan (MMATP) or applicable updates and/or replacement documents.
- 1.8 The owner will obtain approval from the Ministry of the Environment, Conservation and Parks, the Lake Simcoe Region Conservation Authority, and the Ministry of Citizenship, Culture, and Recreation, as they relate to the development of the subject property.

2.0 Roadways

- 2.1 The owner will be responsible for constructing the extension of Beacon Road from Montserrat St. to Harvie Rd. as per the approved drawings by Pearson Engineering all to the satisfaction of the Development Services Department.



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maintenance for the first 3 years of operation prior to Assumption (per Fees By-law 2023 – Year 1, \$3,158.10/lane.km – Year 2, \$2,516.19/lane.km – Year 3, \$1,251.26/lane.km / @ 0.72 lane.km).

- 5.3 As per Schedule E of the Fees By-law, the owner will contribute, to the City of Barrie, a winter sidewalk maintenance fee in an amount of \$1,276.29 deemed necessary to cover future winter sidewalk maintenance for the first 3 years of operation prior to Assumption (per Fees By-law 2023 – Year 1, \$2,303.97.00/km – Year 2, \$828.92.00/km – Year 3, \$412.36/km / @ 0.36 km).
- 5.4 The owner will contribute to the City of Barrie \$7,571.04 to cover the future cost of installing Control Monuments, two (2) horizontal control monuments and two (2) vertical control benchmarks for the first ten hectares (10 ha) (or less) subdivided by the plan, as per Schedule E of the current Fees By-law, 2 @ \$3,785.52. The City of Barrie shall undertake this work upon final acceptance of this development.

6.0 Fencing

- 6.1 Intentionally blank.

7.0 Conveyance In Title and Easements

- 7.1 Any walkways, road widenings and road reserve Blocks will be conveyed at registration.

GENERAL CONDITIONS

8.0 General

- 8.1 The Ontario Provincial Standard Specifications and Drawings (OPSS & OPSD), in addition to the City of Barrie Standards, will form part of these "General Conditions" and will include supplemental specifications that are issued from time to time which modify or further define these standards and specifications.
- 8.2 The City of Barrie reserves the right to order field revisions at the expense of the owner.
- 8.3 Please be advised that for any undeveloped lots which have an overall grading of 15% or greater, the owner will be required to prepare a special lot grading plan which will identify areas of significant grades and excessive potential tree loss but maintain an overall drainage scheme. In that regard, these plans should be in accordance with the current City of Barrie Lot Grading Policies and Guidelines.
- 8.4 Registration of this plan will not be considered until all infrastructure necessary to support the development of this plan is secured with the City of Barrie. Further, occupancy will not be granted until all necessary infrastructure is constructed and operating to municipal standard.
- 8.5 The owner agrees to discharge any, and all, applicable City of Barrie Act Charges or cost sharing obligations associated with the development.
- 8.6 As a requirement of the development, the owner will be responsible for entering into a Subdivision Agreement with the City of Barrie.

9.0 Roadways

- 9.1 The owner will construct all roads, within the proposed development, to City of Barrie's Standards, including but not limited to, curb and gutter, hot mix asphaltic concrete, granulars, storm sewers, sub-drains where applicable, and appurtenances, sidewalks, streetlights, driveway approaches, and sodded boulevards to the satisfaction of the Development Services Department.

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- 9.2 Any dead-ends, open sides, or reverse frontages on road allowances, created by this Plan of Subdivision, will be terminated in a 0.3 metre reserve, to be conveyed to the City of Barrie.
- 9.3 If temporary turning circles are required, the pavement structure will be constructed such that a minimum radius of 13 metres is provided. The property required to construct the temporary turning circle will be shown as a part or parts on a reference plan and will be subject to a temporary turning circle agreement, in favour of the City of Barrie, until the roadway is extended.
- 9.4 The owner will provide nursery sod on a minimum of 200 mm topsoil, meeting the municipal quality standard, on both sides of all streets within the subdivision. Prior to placement of topsoil, the source stockpile must be lab tested with multiple samples at varying depths and locations to show that the topsoil is suitable for maintaining sod. Any soil amendments resulting from testing results must be made prior to placement on site.
- 9.5 The owner will provide Light-Emitting Diode (LED) streetlights for all streets within and adjacent to this subdivision as per current City standards.
- 9.6 The City of Barrie will require that the owner install and maintain erosion protection and sediment control measures during construction, within this development, such that erosion and sedimentation are controlled within the Plan of Subdivision.
- 9.7 The owner agrees to prepare and post signs to the satisfaction of the Development Services Department, which indicate that this subdivision is under development control, and that the streets and services are not assumed by the City of Barrie. These signs will be erected at each vehicular access to the development and maintained by the owner until the streets and services are assumed by the City of Barrie at which time the owner will have the signs removed.
- 9.8 The owner agrees to prepare and erect temporary street signs prior to the issuance of any building permits within the development, unless all permanent street signs have already been installed, all to the satisfaction of the Development Services Department. These signs will be as per the approved subdivision drawings and shall include but not be limited to: stop signs, street name signs, no parking signs, speed limit signs, etc.
- 9.9 The owner will be responsible for the provision of trees (minimum 60 mm caliper) within the boulevard area of the municipal road allowance. The quantity, location, and species of trees to be according to the planting plan and specifications submitted by the owner and approved by the Development Services Department – Parks Planning. All planting will be according to City of Barrie Specifications, and maintained throughout the guaranteed maintenance period. All vegetation is required to have a minimum (2) two-year warranty period beginning from the time of inspection and acceptance by Staff at substantial completion.
- 9.10 The owner shall be responsible for pavement markings such as centre lining, stop blocks, crosswalks, and tapers in accordance with the accepted engineering drawings. The required markings will be placed upon completion of the base course and top course asphalt layers or as directed by the City of Barrie.
- 9.11 The owner will be responsible for obtaining a Right of Way Activity Permit for construction access and all works within the assumed municipal road allowance.
- 9.12 The owner shall ensure, at their expense, that all boulevards remain in full compliance with the Boulevard Garden Policy (Motion 05-G-147, Bylaw 2005-256) until such time as the development is assumed by the City of Barrie and throughout the guaranteed maintenance period to the satisfaction of the Development Services Department – Parks Planning.
- 9.13 The owner will be responsible for the incorporation of the following clause in the Purchase and Sale/Lease Agreement:

“Purchaser/Tenants are advised that they shall be responsible for ensuring that the Municipal Boulevard remains in full compliance with the City of Barrie’s

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Boulevard Garden Policy. Any infractions or works undertaken by the Purchaser/Tenants which do not conform to the Boulevard Garden Policy shall be removed and/or corrected to the satisfaction of the Development Services Department – Parks Planning, upon receipt of written notice within ten (10) business days. All costs incurred and/or required works shall be the responsibility of the Purchaser/Tenants.”

- 9.14 A “no dealings” clause will be placed on all lots and blocks on dead-end streets which do not have an appropriate turning circle.

10.0 Stormwater

- 10.1 The owner will accommodate all existing drainage, within and external to, the subject plan, according to the City of Barrie’s current Stormwater Management Policies. Where improvements and or adjustments to the existing systems are necessary to facilitate this development, it will be the owner’s responsibility to provide the necessary works, including outlet improvements, as required.
- 10.2 The owner will be responsible for carrying out the works recommended in the previous section without limiting the general or specific requirements of the above referenced Stormwater Management Report. The owner will provide appropriate erosion and sediment control, within the development areas, to protect applicable watercourses from the impact of runoff from the development. The owner will maintain the erosion and sediment control facility in an acceptable fashion complete with safety devices, if required.
- 10.3 The owner will be responsible for the preparation of a stormwater management study that will recommend how the stormwater, within and external to the site, should be accommodated.
- 10.4 The owner will provide storm sewers, suitably designed and of sufficient depth, to provide for the proper drainage of the lands, within and external to the subdivision, and discharged to drainage outlets as directed.
- 10.5 The storm sewer system, within the development, will be located mainly within the road allowances, and in other easements and alignments, as required.
- 10.6 The owner shall provide maintenance holes at the extremities of all sewers. In addition, connections to the storm sewer are to be made preferably at maintenance holes, to the satisfaction of the Development Services Department.
- 10.7 The owner is to provide a safety grate, at the inflow and outflow of all culverts, in the proposed development.
- 10.8 Before final approval and registration of the plan, the owner or his agents will submit an Erosion and Sediment Control Plan, prepared to the satisfaction of the City of Barrie and the Lake Simcoe Region Conservation Authority. This plan will detail how erosion and sediment, and their effects, will be reduced during and after the construction period. The installation of appropriate sediment and erosion control measures must be in place before commencing any works on the site.

11.0 Sanitary

- 11.1 The owner will be responsible for providing all sanitary sewage facilities to accommodate sanitary sewage flows, within and external, to the subject lands.
- 11.2 The owner will provide a 200 or 250 mm minimum diameter polyvinyl-chloride pipe (as dictated by land-use as per the City of Barrie sanitary design guidelines) or acceptable alternative, with maintenance holes provided along and at the extremities, to be placed mainly along the centre lines of all road allowances of sufficient depth and suitable slope to serve every lot within the subdivision, and accommodate land tributary to the areas as determined by the Development Services Department, and designed to discharge to a sufficient outlet.

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- 11.3 The owner will provide one (1) sanitary sewer service lateral of 100 mm minimum diameter to approximately the centreline of each lot or dwelling unit, to a point 2.0 metres beyond the limit of the road allowance.

12.0 Watermains

- 12.1 The owner acknowledges and agrees that the proposed development must be serviced from the municipal water distribution system.
- 12.2 The owner agrees that in order to provide proper and reliable water distribution systems within the development, reasonable looping of these systems shall be provided to the satisfaction of the Development Services Department.
- 12.3 The owner will provide 150 mm minimum diameter watermains of Class CL52 Ductile Iron or PVC Class 150 (DR18) with properly spaced hydrants and valves, to be placed mainly within the boulevards of all road allowances of sufficient depth and size to serve every lot within this subdivision. However, cul-de-sacs, unless otherwise directed, shall be serviced from a 50 mm diameter Type "K", third party (W.H.), soft copper waterline (alternative is polyethylene (P.E.)) as per BSD-513.
- 12.4 The owner acknowledges and agrees that the minimum diameter pipe size for the water distribution system, to be installed to the subject Plan of Subdivision, shall meet or exceed the pipe sizes recommended in the Master Servicing Plan. Also, these watermains shall be of sufficient size to provide the maximum day usage plus maintain the minimum fire flows, as stated in the City of Barrie's most recent Water Distribution Specifications.
- 12.5 The owner will provide one (1) water service lateral of 25 mm minimum diameter to the limit of the road allowance of each lot or dwelling unit, to a separation of 2.5 metres from the sanitary sewer service lateral and located as to avoid driveway entranceways. The only exception are lots with less than 8.0 metres of frontage, where separation shall be 1.2 metres providing a minimum vertical separation of 0.5 metres.
- 12.6 The owner acknowledges and agrees that no connection to the municipal water systems will be permitted prior to registration of the City of Barrie's Subdivider's Agreement.
- 12.7 The owner acknowledges and agrees that written approval from the Development Services Department, for materials required, shall be obtained prior to commencing with the installation of the water distribution systems.
- 12.8 The owner agrees to relocate, support, or modify, at his own expense, any existing utility service facilities as may be necessary, by reason of the work as required by the Plan of Subdivision.
- 12.9 A minimum residual pressure of 275 Kpa (40 psi) shall be provided in all sections of the water distribution system under conditions of peak hour demand when no fire flow allowance is made.
- 12.10 The owner will be responsible for the preparation of a water distribution analysis report that will recommend how the water distribution system, within and external to the site, should be facilitated.

13.0 Parkland Conditions

- 13.1 The owner shall provide to the City of Barrie, a cost estimate and work schedule for the completion of the departmental requirements with a 100% Letter of Credit for such works.
- 13.2 The owner will prepare a detailed inventory of all existing trees, an individual list of dead/diseased or dying trees, an assessment of significant trees that will be preserved, and the proposed methods of tree preservation. The owner will submit status reports on a bi-monthly basis to the City of Barrie during active construction regarding the condition of vegetation and preservation fencing to the satisfaction of the Development Services Department – Parks Planning.

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- 13.3 The owner will not remove, damage, or cause harm to any trees which have been identified to be preserved without the prior written approval by the Development Services Department – Parks Planning.
- 13.4 The owner will implement a maintenance schedule for all trees identified as hazardous, diseased, dead, or dying, prior to the construction of homes within the limit of the development. The owner will prune, cut down, and remove from the lands in the plan, all hazardous, diseased, and dead trees, upon receipt of written notice from the Development Services Department – Parks Planning. The maintenance requirements for all trees within the limit of the development identified shall remain in effect until the final acceptance of works and the end of the guaranteed maintenance period.
- 13.5 The owner is responsible for engaging the service of a qualified Landscape Architect to prepare a complete set of working drawings, details, specifications and cost estimates for the landscape works prior to registration. The landscape drawing package shall include, but not be limited to, boulevard street tree planting, fencing, planting, restoration planting, plant lists, notes, details and cost estimates to the satisfaction of the Development Services Department – Parks Planning.
- 13.6 The owner agrees, prior to assumption, to provide a “digital file” consisting of all constructed/installed subdivision landscape/streetscape works. The digital data must be compatible with the City of Barrie Standards, and must be consistent with the Site Servicing and Lot Grading Plans prepared by the owner's consultant(s).
- 13.7 The owner is responsible for retaining the services of a qualified Landscape Architect to manage and implement all landscape/streetscape related items including, but not limited to construction/site supervision, reporting, fencing layout, boulevard planting layout, planting, root barrier installation (sidewalks and driveways), boulevard inspections, resident complaints/inquiries, liaison with the City of Barrie, preservation inspections, assumption inspections, letter of credit release, inspections for acceptance and inspections for the end of the guaranteed maintenance period. The Landscape Architect is required to maintain inspection logs of all field/site visits and inspections through to the end of general maintenance.
- 13.8 All vegetation shall be guaranteed for a minimum of two (2) years following assumption of the development. Note: Depending on time of installation, the warranty period may have to extend past the end of the guaranteed maintenance period at the discretion of staff to the satisfaction of the Development Services Department – Parks Planning.
- 13.9 For the purpose of inspections for the release of securities, endorsement of assumption or the end of the general maintenance period the owner agrees that for the purpose of vegetation health assessment; inspections must be completed between the period of spring leaf flush and September 15th of any given year. Staff will commit to ensuring that the required follow up inspections are completed by October 1st of any given year for this purpose. Inspections that are completed outside of this defined window will not be accepted or considered valid. In addition, vegetation health assessments are only valid for the year in which they were performed, reviewed and accepted by staff.
- 13.10 The owner agrees that the Engineering Consultant and the Landscape Architectural Consultant will work jointly to ensure that lot servicing is designed to accommodate the placement of boulevard trees wherever possible. This includes but is not limited to the strategic placement of water and sanitary services, grouping of elements such as street lights and transformers within the boulevard, placement of utility services and Canada Post boxes to the satisfaction of the Development Services Department.
- 13.11 No topsoil stockpiling, disturbance, or dumping of construction debris is permitted within defined preservation limits. The owner will maintain the protective fencing in a fashion to the satisfaction of the Development Services Department – Parks Planning for the entire period of the development. In the event that unauthorized activity or works occur within these defined areas, all disturbed lands shall be reinstated to the satisfaction of the Development Services Department – Parks Planning.

14.0 Fencing

- 14.1 Intentionally blank.

15.0 Notification – (“Community Information Map”)

- 15.1 The owner agrees and understands that no works will occur on the site until the owner has prepared an information map to the satisfaction of the City of Barrie. This information map is to be provided by the owner to prospective home purchasers and shall include the requirements associated with providing specific information concerning all components of servicing and other facilities related to the proposed subdivision. The information map shall include, and not be limited to, the location and description of various road and servicing items within, and associated with the subdivision plan such as public and private services (i.e. above and below ground facilities, and Bell structure locations, sewers, etc.), road classification and number of lanes, lot grading, drawings, parks, walkways, institutional property, open spaces/environmental lands, fencing, and commercial property.

16.0 Sidewalks

- 16.1 As per OPSD requirements, the owner will provide 2.0- and 1.5-metre-wide concrete sidewalks throughout the development according to the accepted engineering drawings.
- 16.2 As per the Integrated Accessibility Standards Regulation, sidewalks at intersections are to incorporate ramps with tactile walking service indicators as per OPSD 310.039 and other associated standards.

17.0 Driveway Locations

- 17.1 The owner will be responsible for including on all “Lot Development Plans”, the locations of utility apparatus (water service box, electrical vaults, streetlights, and pedestals) to avoid conflicts with the proposed driveway entrances. In that regard, the owner is to ensure that they generally site the driveway entrances on the opposite side of all utility apparatus.

18.0 Street Lighting

- 18.1 The owner will ensure, wherever possible, that a streetlight is located at the end of all walkways abutting the municipal roadway.
- 18.2 The owner shall place with the City of Barrie Finance Department a \$12,000.00 cash deposit to cover the cost of electric power to supply all streetlights within this development, or each phase of development, from the date InnPower energizes such facilities, and sixty percent (60%) of the lots or units are occupied. Upon meeting this condition, the owner shall request in writing that the Development Services Department release them from any further obligation for electrical costs, and that the balance of their cash deposit for electric power be refunded.
- 18.3 Should the electrical costs be greater than the sum deposited, the owner shall be invoiced for the difference. Any outstanding invoices must be paid prior to acceptance of the development and subsequent Letter of Credit reductions.

19.0 Lot Grading

- 19.1 The owner will prepare a General Lot Grading Plan as part of the Engineering drawings, which will be reviewed by the Development Services Department.
- 19.2 The owner will prepare Lot Development Plans as outlined in the Lot Grading and Drainage Control Procedures, to the satisfaction of the Building Services Department.
- 19.3 Prior to registration, the owner is required to obtain written approval from adjacent landowners (outside of the plan) if the proposed grading affects the adjacent property.



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- 19.4 The owner will be responsible for the incorporation of the following clause(s) in the Purchase and Sale/Lease Agreement:

"No purchaser of any lot shall alter or interfere with the grading and drainage levels and patterns as approved by the municipality with respect to the said lots and, without limiting the generality of the foregoing, no purchaser of any part of any lot shall alter, fill, fence, stop up or allow to become clogged or fall into a state of disrepair, any rear or side yard drainage depression or swale, catchbasin or other drainage channel, facility or installation, as such alteration or other action as stated above may cause a failure of the drainage system in the area.

Notwithstanding this prohibition the purchaser of any lot agrees to indemnify and save the municipality completely harmless from all actions, causes of action, suits, claims and demands whatsoever which may arise directly or indirectly, by reason of such alteration or other action as stated above.

No purchaser shall be entitled to connect roof leaders to the foundation drain collector or to the weeping tile or the sanitary or storm sewer. Roof leaders shall be required to discharge in accordance with the drainage facilities shown in the municipally accepted final lot grading plan for the subdivision."

"Owners are advised that approved lot grading plans may specify the location and species of trees which shall be required to be maintained on the lot."

"Purchasers are advised that no fences, trees and other landscaping features may be installed on the lot, other than those approved by the municipality, until a final lot grading certificate has been received by and approved by the municipality in accordance with the requirements of the Subdivision Agreement."

"Purchasers are advised that the municipality has reserved the right to amend the provisions and details of the lot grading plans filed with the agreement and that such amendments may result in alterations to features in said plans or the additions of other features, including, but not limited to, retaining walls. Owners are advised to consult with the municipality to ascertain the particulars of any amended grading for any individual lot or lots and are cautioned not to rely solely upon the provisions and details contained in the lot grading plans filed with the Agreement."

20.0 Emergency Measures

- 20.1 Whenever the construction site is unattended by a representative of the owner's consulting engineer, the name, address, and telephone number, of a representative of the owner, will be given to the Development Services Department. This representative will be available on a continuous basis and will have the necessary authority to mobilize workers and machinery, and to take any action as directed by the Development Services Department, in case of emergency or requirement for maintenance that was caused by the owner's negligence, act of God, or any cause whatsoever.
- 20.2 Should the owner be unable to carry out the immediate remedial measures required, the City of Barrie will carry out the necessary remedial measures, the costs of which will be charged to the owner, in accordance with the provisions of the Subdivider's Agreement.

21.0 Private Wells

- 21.1 The owner shall be responsible for the identification and abandonment of all existing wells on site, as per the Ontario Water Resources Act Reg. 903, s.21. Copies of the Water Well Record, detailing the procedures of the well abandonment and well location, must be submitted to the Ministry of the Environment, Conservation and Parks, and the City of Barrie prior to any development works proceeding on the site.

22.0 Environmental

- 22.1 If a study encompassing the development lands has not already been performed, the owner will retain the services of a professional Hydrogeological Engineer who must be approved in writing, by the Development Services Department. The owner must complete a hydrogeological study by the said professional Hydrogeological Engineer, to the satisfaction of the Development Services Department. Without limiting the generality of the foregoing, the study will include a survey of all water supply systems within three hundred metres (300 metres) of the subject property, and or the zone of influence and report of the possible impact the development of the plan will have on the existing water supply systems. Should the Development Services Department determine that the existing water supply systems will be altered, or eliminated, based on the study and any other available supporting data, the owner will be responsible for providing the interim and permanent restoration of the water supply systems, to the satisfaction of the Development Services Department. This report should be conclusive with provisions and recommendations on servicing within the noted recharge area.

23.0 Erosion Control

- 23.1 Before any site alteration within the subject property, the owner or his agents will make application for a Site Alteration Permit as described within the current Site Alteration By-law. Prior to commencement of any works within the site, all requirements, obligations, and control measures as described within the By-law will be undertaken and in place to the satisfaction of the Development Services Department and to the appropriate conservation authority in those areas which are under their jurisdictions. Further, it will be the owner's responsibility, through their professional consultant, to maintain said works for the duration of this subject development.

24.0 Conveyance in Title and Easements

- 24.1 The owner shall convey all lands and grant all easements to the City of Barrie, as identified in the relevant schedule of the Subdivider's Agreement.
- 24.2 The owner will, upon the request of the City of Barrie and until the formal acceptance of City of Barrie services, convey easements at the rear of any lots and any other locations where required for the installation and maintenance of services, all at the expense of the owner, including all costs of acquisition. Where any lot has been subsequently conveyed and the owner is unable to obtain such conveyance of easements, the City of Barrie will expropriate such easements as may be necessary, in its sole and unfettered discretion, and the owner will bear the cost of such

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expropriation, in total, and will enter into a further agreement with the City of Barrie to secure such costs.

- 24.3 The owner agrees that all external easements required for this development will be in place before the registration of the Subdivider's Agreement.

25.0 Horizontal Control

- 25.1 All property surveys required through Plans of Subdivisions must be tied into the Ontario Horizontal Control Survey Network (Cosine) in accordance with Ontario Specifications and Guidelines, and Regulations under The Surveys Act (OS 79). In that regard, the owner agrees that an Ontario Land Surveyor will provide, to the City of Barrie, the Registered Plan of Subdivision, and all other associated plans in digital form referred to Horizontal Control Survey UTM (Zone 17) NAD83. Prior to final acceptance of the registered plan, the owner's surveyor shall submit to the Development Services Department a report containing a summary of the field traverse, adjustment method, closure report, and a summary of the rationale used to derive the boundary coordinates. The owner's surveyor shall provide to the City of Barrie a signed certificate that this submission to the City of Barrie complies with the specification set out. The required report will be digitally filed on a CD/DVD and shall also be included within the report and must meet the current City of Barrie Integrated Control Survey Specifications.
- 25.2 Prior to the assumption of the subdivision, the owner's surveyor shall establish a network of second order horizontal control monuments, as set out in "Ontario Specifications for Horizontal Control Surveys (OS 79)", as well as a network of vertical control benchmarks, as set out in "Ontario Specifications for Vertical Control Surveys (OS 79)".
- 25.3 The same monument may be used as both a horizontal and vertical control monument/benchmark.
- 25.4 The horizontal control monuments, and the vertical control benchmarks, shall be established at approved locations to the satisfaction of the Development Services Department, using the following criteria:
- a) Two (2) horizontal control monuments and two (2) vertical control benchmarks for the first ten hectares (10 ha) (or less) subdivided by the plan, and one (1) additional horizontal control monument and vertical control benchmark for every additional ten hectares (10 ha) (or less) subdivided by the plan.
 - b) In addition, every existing horizontal control monument and vertical control benchmark destroyed during subdivision or site plan construction must be replaced.
 - c) The new horizontal control monuments and vertical control benchmarks (including replacements) shall be installed by one of the following methods:
 - i. Make a cash contribution to City of Barrie's Finance Department as per Schedule E of the current Fees By-law per horizontal control monument or vertical control benchmark, or per combined horizontal/vertical control monument and the City of Barrie will install the monuments and ensure acceptance by the Ministry of Natural Resources into their Cosine Database.
- OR**
- ii. A certificate by an Ontario Land Surveyor be provided stating that the horizontal control monuments and vertical control benchmarks were installed as set out by the Ontario Specifications for Horizontal Control Surveys (OS 79) and the Ontario Specifications for Vertical Control Surveys (OS 79) respectively, and confirmation from the Ministry of Natural Resources that the horizontal control monuments and vertical control benchmarks have been accepted into their Cosine Database.

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- a) The horizontal control monument shall be a round iron bar (0.025 m x 1.22 m) with brass cap or any monument approved by the Ontario Specifications for Horizontal Control Surveys (OS 79).
- 25.5 The owner agrees to provide a digital file of the subdivision services, to the satisfaction of the Development Services Department, consisting of all as-constructed works, including pavement widths and grades, curb types, sidewalks, location of all municipal services, utilities, etc. The digital data must be compatible with the City of Barrie's standards and must be tied to the horizontal and vertical control network (Cosine).

26.0 Professional Consultant Certification

- 26.1 The owner is required to confirm in writing to the Development Services Department, that a professional consultant has been retained to carry out full-time resident inspection of the works. The owner will require the professional consultant to certify that the works were installed in accordance with the accepted drawings and specifications, and the City of Barrie's Standards applicable to the works, and in compliance with the Subdivider's Agreement and these engineering conditions.

27.0 Final Assumption

- 27.1 Prior to final assumption, the owner will be required to provide the following:
 - a) Letter of Application for final assumption;
 - b) A pre-assumption inspection with the Development Services Field Coordinator and Parks Planning sections must be completed identifying any and all deficiencies (Letter of Application must reference inspection date and attendance);
 - c) Acceptance letter from InnPower;
 - d) Acceptance letter/e-mail from the Development Services Field Coordinator;
 - e) Acceptance letter/e-mail from the Development Services Parks Planning (Landscape Architectural Planner);
 - f) Acceptance letter/e-mail from the Building Services Department with respect to lot grading certification;
 - g) Acceptance letter/e-mail from the Water Operations (water system and continuity testing);
 - h) List of outstanding work and associated cost estimates;
 - i) Documents that support compliance with the Construction Act which would include publication certificates from the Daily Commercial News, clearance certificates from the Workplace Safety Insurance Board and statutory declarations from the owner and general contractor advising that all amounts owing to the contractor/subcontractor have been paid;
 - j) Letter of Credit reduction request letter and supporting spreadsheet;
 - k) Engineers' certification that all works have been completed and are in compliance with the accepted plans;
 - l) As-Constructed engineering drawings (See City of Barrie Standards for Engineering Records Submission Form and required documents);
 - m) An assumption plan (letter size) of the development including internal and surrounding street names, lot numbers and block numbers;



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- n) Certification Letter from an Ontario Land Surveyor (complete with drawing) confirming that all standard iron bars have been replaced, reset, found and or verified; and,
- o) Final inspection video of both the storm and sanitary sewer.

Prepared by:  Digitally signed by
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GM/