



**Tree Ad Hoc Committee Meeting
Tuesday, June 16, 2015, 9:00 – 11:00 AM
280 Madison Ave N
Bainbridge Island, WA 98110
Council Conference Room**

AGENDA

1. Review and Approve Notes from May 12 and 26 Committee Meetings
2. Continue reviewing requirements for Screening Perimeter Buffers and review changes approved at May 26 meeting ([BIMC 18.15.010.D](#))
3. Debrief from May 28 Planning Commission meeting on draft Ordinance 2015-04

Ad Hoc Tree Committee
Meeting Notes
May 12, 2015

Committee members in attendance: Roger Townsend, Jon Quitslund, Mack Pearl, Sarah Blossom
COBI Staff: Jennifer Sutton, Josh Machen

The meeting began at 9:15 and ended at 11, approximately. We discussed one detail in the notes from the April 28 meeting: the paragraph beginning “Jennifer briefed the committee” ends with “The ad hoc committee’s discussion of this detail [a difference of opinion that came up in the Planning Commission meeting on April 23] was not conclusive.” Returning to this question, committee members supported Mack Pearl’s opinion that language requiring the survey and valuation of retained trees prior to development should be included in the BIMC chapter as well as in the Administrative Manual.

Josh distributed copies of a brochure he had obtained recently at a conference: *‘Tree Protection on Construction and Development Sites,’* developed by the Oregon State University extension service as a Best Management Practices guidebook for the Pacific Northwest.

We discussed the bonuses allowed for retention of mature trees and heritage trees on the assumption that the trees will remain healthy: there is such a thing as natural tree mortality, while the bonus confers a permanent benefit.

Josh described the current status of planning for Pleasant Beach Village, with the new plans for the Pleasant Beach in, filling the ‘donut hole’ adjacent to the pool. Referring to the need for a buffer at the eastern boundary between multi-family development and the single family residences above, Josh pointed out the need to accommodate a water tank and an existing water line. This project serves as an example of appropriate landscape design within its parts and on the periphery.

With reference to Tree Unit requirements in the NSC zones, we approved the existing language in the draft Ordinance 2015-04 (p. 7): at least 40 tree units per acre, or at least as many as prior to the proposed development or redevelopment.

Some further work may be needed re: non-residential development in residential zones. We agreed that “filtered screen,” as used in BIMC 18.15.010, is not a useful category.

The next meeting is set for May 26: requirements for screening perimeter buffers will be discussed with the help of landscape professionals.

**Ad Hoc Tree Committee
Meeting Notes
May 26, 2015**

Committee members in attendance: Jon Quitslund, Mack Pearl, Sarah Blossom

COBI Staff: Jennifer Sutton

Public: Charles Schmid, Jeff Bouma, Tim Goss

The meeting began shortly after 9 a. m. These notes don't cover discussion and actions taken after 10:15 a. m.

Jennifer began the meeting by asking Jeff, "Do the Code standards for screening and landscaping achieve what we want?" Jeff said that, having applied the Code, for the most part he is satisfied with its terms. It's easy enough to understand what "full screen" is supposed to achieve. He understood that the term "filtered screen" is on the way out. The "partial screen" requirement may be useful (see discussion below).

Jeff recommended that the screening requirement be stated in terms of a buffer's square footage rather than linear footage: e. g., one tree per 25 sq. ft. rather than one tree per 10 linear ft. The committee approved of this change.

At a later point in the meeting, Tim said that in his landscaping practice, typically he provides more than the minimum. Problems arise with grudging and shabby attention to the Code requirements, and (if the note-taker may interject) this reflects on the supervising planner's responsibilities and on lax code enforcement.

Charles brought up some concerns with the project proposed for Rolling Bay, recently reviewed by the Design Review Board: plans involve a restaurant close to the northern property line, adjacent to residential development. (In the graphic accompanying an *Inside Bainbridge* story on the project, it appears that a full screen landscape buffer is in the plans, with the buildings on the interior of the site a short distance forward from the screen.)

Discussing a page of Perimeter Buffer Descriptions excerpted from BIMC 18.15.010.D, we agreed that in 4.a.iii, the requirement should be 50%, not 10% for native and drought resistant trees. In subsection a.vi, the divisor should remain at "four," not six. Rather than "Partial Screen," a better heading for subsection b. would be "Landscape Buffer."

We discussed the reasons for requiring a full screen, and whether it's consistently appropriate at the density of a hedge. Sarah observed that with a buffer as wide as 50 feet, part of it should be attractively landscaped, not a full screen. Screening along Hwy 305 is important; Mack observed that our winding roads call for landscaping, not always a full screen. Street tree planting is appropriate in some situations. Jon observed that the value of a screen is affected by whether the roadway is above or below the level of the buildings beyond it. Mack said that what we need are **performance standards**.

CHANGES RECOMMENDED AT 5/26 TREE AD HOC COMMITTEE MEETING

18.15.010.D.4 Perimeter Buffer Descriptions

4. General Requirements

a. Full Screen

The intent of this buffer is to provide an effective vegetated screen over time between uses, land use districts, or to screen parking areas and structures from the public rights-of-way. Where full screen perimeter landscaping is required, the applicant must provide:

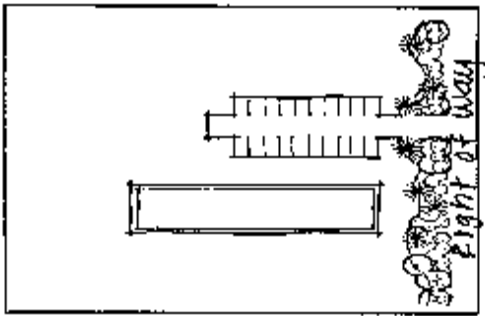
- i. Minimum 70 percent evergreen trees ranging in height from four feet to six feet at the time of planting with at least 50 percent being six feet high; and
- ii. Deciduous trees with a caliper of at least two inches at the time of planting; and
- iii. At least ~~20~~ 50 percent of the trees shall be native species ~~and or~~ drought resistant; and
- iv. The number of trees is determined by calculating the area of the perimeter buffer and dividing the length of the landscape perimeter by 10 feet ~~250 square feet~~; and
- v. Minimum 70 percent eEvergreen shrubs at least 21 inches in height at the time of planting, spaced no more than three feet on center, to achieve minimum ~~four~~ six feet height at maturity; and
- vi. The number of shrubs is determined by calculating the area of the perimeter buffer and dividing the length of the perimeter by four feet ~~50 square feet~~; and
- vii. Living ground cover shall be planted and spaced to achieve total coverage within ~~three~~ five years; and
- viii. Plants may be clustered within the perimeter to screen structures and parking areas.

b. Landscape Buffer Partial Screen

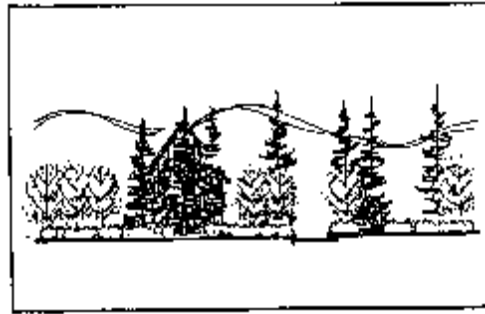
Where partial screen perimeter landscaping is required, the applicant must provide:

- i. Minimum 50 percent evergreen trees ranging in height from four feet to six feet at the time of planting with at least 50 percent being six feet high; and
- ii. Deciduous trees with a caliper of at least two inches at the time of planting; and
- iii. At least ~~20~~ 50 percent of the trees shall be native species ~~and or~~ drought resistant; and
- iv. The number of trees is determined by calculating the area of the perimeter buffer and dividing the length of the landscape perimeter by 20 feet ~~400 square feet~~; and
- v. At least 50 percent eEvergreen shrubs at least 21 inches in height at the time of planting, spaced no more than three feet on center, to achieve minimum ~~four~~ six feet height at maturity; and
- vi. The number of shrubs is determined by calculating the area of the perimeter buffer and dividing the length of the landscape perimeter by five feet ~~100 square feet~~; and
- vii. Living ground cover shall be planted and spaced to achieve total coverage within ~~three~~ five years; and

- viii. Plants may be clustered within the landscape perimeter to screen structures and parking areas.



Partial Screen Plan



Partial Screen Section

c. Filtered Screen

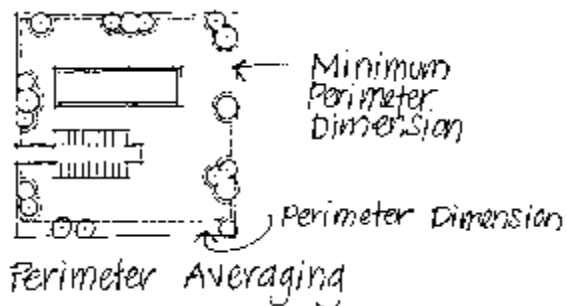
Where filtered screen perimeter landscaping is required, the applicant must provide:

- i. One hundred percent deciduous trees two-inch caliper spaced no more than 30 feet on center; and
- ii. Evergreen shrubs minimum 21 inches in height at the time of planting spaced no more than three feet on center to provide a continuous hedge achieving a maximum height of ~~three~~ six feet at maturity; and
- iii. Living ground cover shall be planted and spaced to achieve total coverage within ~~three~~ five years.

5. Standards

The following standards apply to the full screen, partial screen and filtered screen perimeter landscape requirements contained in this section.

- a. Existing vegetation may be used in lieu of new plant material ~~if not already being used to meet another requirement.~~ Although existing vegetation may meet the minimum number of trees or shrubs for a required full screen, the Director may require additional trees and/or shrubs to achieve an effective full screen.
- b. A full screen will be required to screen utilities located above ground from adjacent uses.
- c. Perimeter landscaping shall be clustered in areas to screen structures, utility structures, loading areas, parking lots, trash enclosures, storage areas and mechanical equipment.
- d. The director may approve the averaging of perimeter landscape widths to provide adequate screening if it meets the criteria contained in this section.
- e. Earth berms in combination with shrubs trees may be used to achieve the initial planting height requirement.



and

- f. Minimum landscape perimeter dimensions are allowed when perimeter averaging is applied. The landscape perimeter can be averaged only if the total required perimeter dimension square footage is achieved. The director may allow landscape perimeter averaging if the following criteria is met: (i) plant material is being clustered to more effectively screen parking areas and structures; and (ii) the quality of the perimeter landscape is not diminished; (iii) significant trees are being retained.

**ORDINANCE NO. 2015-04
(formerly 2014-07)**

AN ORDINANCE of the City of Bainbridge Island, Washington, relating to tree and landscaping maintenance and requirements; amending Bainbridge Island Municipal Code Sections 18.12.030, 18.15.010 and 18.36.030.

WHEREAS, in January 2014, the City Council convened an Ad Hoc Committee consisting of two Planning Commissioners and three to review and make recommendations on the City's tree regulations; and

WHEREAS, the Ad Hoc Committee organized their review by first focusing on regulations that apply to the Mixed Use Town Center and High School zoning districts; and

WHEREAS, the Ad Hoc Committee presented their recommended changes to date to the City Council September 2, 2014; and

WHEREAS, the City Council directed staff bring forward ordinances to implement the suggested changes; and

WHEREAS, the City Council conducted a public hearing on Ordinance 2015-04 on XXXX, 2015; and

WHEREAS, notice was given on XXXX, 2015 to the Office of Community Development at the Washington State Department of Commerce in conformance with RCW 36.70A.106;

NOW THEREFORE, THE CITY COUNCIL OF THE CITY OF BAINBRIDGE ISLAND, WASHINGTON, DOES ORDAIN, AS FOLLOWS:

Section 1. Section 18.12.030 of the Bainbridge Island Municipal Code is amended to read as follows:

E. Bonus Density in Winslow Mixed Use and High School Road Districts. Eligible properties may achieve a maximum level of development above the base FAR, as provided for in Table 18.12.020-3, by using one, or a combination of, the following FAR bonus provisions. The FAR bonus provisions may be combined to achieve the maximum level of development established for each district. In no case shall the total commercial, residential or mixed use FAR exceed the maximum FAR as provided for in Table 18.12.020-3.

3. Public Amenities and/or Infrastructure. At the applicant's option, a portion of the bonus may be earned through the provision of public amenities, ~~and/or~~ infrastructure, and/or preservation of a Heritage Tree(s) on site, pursuant to an adopted city council resolution clarifying the amount of credit awarded for different provision of different public amenities and/or infrastructure, as follows:

- a. Up to 40 percent of the maximum residential, commercial or mixed use FAR bonus may come from monetary contributions toward public amenities and/or infrastructure beyond that required for SEPA mitigation. The amount of the contribution shall be established by resolution of the city council. Funds contributed to the public amenities and/or infrastructure shall be used exclusively in the Mixed Use Town Center or High School Road districts, for projects identified in the six-year capital facilities program, or approved by the city.
- b. In lieu of the contribution of funds as provided for in subsection E.3.a of this section, and subject to approval by the director or designee, the public amenities FAR bonus may be achieved by the preservation of a Heritage Tree(s) on site, construction of public amenities and/or infrastructure beyond that required to mitigate the impacts of development. Public amenities and/or infrastructure projects shall be located in the Mixed Use Town Center or High School Road districts, and shall be chosen from projects identified in the six-year capital facilities program, or approved by the city.

Section 2. Section 18.15.010 of the Bainbridge Island Municipal Code is amended to read as follows:

- C. Tree Retention, Protection and Replacement. Where Table 18.15.010-1 indicates that development must comply with the requirements of this subsection C, all development shall comply with the following requirements. These requirements are intended to supplement any regulations in Chapters 16.12 (Shoreline Master Program) and 16.20 BIMC (Critical Areas), which remains the primary source of regulation for environmentally sensitive areas in Bainbridge Island. In the event of any inconsistency between the requirements of this subsection C and the requirements of Chapters 16.12 and 16.20 BIMC, the requirements of Chapters 16.12 and 16.20 BIMC shall apply.
3. Enforcement and Penalties. Failure to retain, replace or transplant trees will be enforced as follows; provided, that any fine shall be no less than three times the value of the trees, as determined by the current standards of the International Society of Arboriculture. If unauthorized tree(s) or vegetation removal occurs within the public right-of-way, all permits in force on the subject property shall be suspended and no new permits issued until the tree(s) or vegetation has been replaced or all penalties have been satisfied. The director is authorized to make site inspections and take such actions as are necessary to enforce this title in accordance with Chapters 1.16, 1.24, and 1.26 BIMC. The director may require an evaluation by a tree professional, a qualified engineer, landscape architect, soils engineer, testing lab, or other specialist at any time during the tree plan review process or tree removal inspection as necessary to ensure compliance with the provisions of this subsection C and/or the terms of the clearing permit. Applicant shall be responsible for any associated costs.
 - a. Civil Citation. It is unlawful for any person to:
 - i. Initiate or maintain, or cause to be initiated or maintained, the use, construction, placement, removal, alteration, or demolition of any

- structure, land, vegetation or property within the city contrary to the provisions of this subsection C.
- ii. Misrepresent any material fact in any application, plans or other information submitted to obtain permits or authorizations under this title or not following the conditions of an approval.
 - iii. Remove or deface any sign, notice, complaint, or order required by or posted in accordance with this subsection C.
 - iv. Fail to submit or implement a planting plan as required by this section.
- b. Stop Work Orders. The city shall have the authority to issue a stop work order to cease all development work, and order restoration, rehabilitation, or replacement measures, including applicable sureties, at the owner's or other responsible party's expense to compensate for the use, construction, placement, removal, alteration, or demolition of any structure, land, vegetation or property within the city contrary to the provisions of this subsection C.
- c. Additional Remedies. In addition to any other remedy provided by this subsection C or under the BIMC, the city may initiate injunction or abatement proceedings or any other appropriate action in courts against any person who violates or fails to comply with any provision of this subsection C to prevent, enjoin, abate, and/or terminate violations of this title and/or to restore a condition which existed prior to the violation. In any such proceeding, the person violating and/or failing to comply with any provisions of this subsection C shall be liable for the costs and reasonable attorneys' fees incurred by the city in bringing, maintaining and/or prosecuting such action.
- d. Civil Infraction. Except as provided in subsection C.3.f of this section, conduct made unlawful by the city under this subsection C shall constitute a civil infraction and is subject to enforcement and fines as provided in BIMC [1.26.035](#), and additionally, is subject to fines as provided in Table 18.15.010-2. A civil infraction under this section shall be processed in the manner set forth in Chapter [1.26](#) BIMC.
- e. Civil Penalty.
- i. In addition to any civil infraction fine, criminal penalty, and/or other available sanction or remedial procedure, any person engaging in conduct made unlawful by this subsection C shall be subject to a cumulative civil penalty in the amount of \$1,000 per day for each violation from the date set for compliance until the date of compliance. Any such civil penalty shall be collected in accordance with BIMC [1.26.090](#).
 - ii. A person who fails to comply with the requirements of this subsection C or the terms of a permit issued hereunder, who undertakes an activity regulated by this subsection C without obtaining a permit, or fails to comply with a cease and desist or stop work order issued under this subsection C shall be subject to a civil penalty as set forth in Table 18.15.010-2. Each unlawfully removed or damaged tree shall constitute a separate violation.
 - iii. Any person who aids or abets in the violation shall be considered to have committed a violation for purposes of the civil penalty.
 - iv. In addition to the penalties addressed under subsection C.3.e.ii of this section, failure to replace or transplant trees will be enforced as provided

in this code; provided, that any financial penalty assessed will be the greater of the amount indicated in Table 18.15.010-2 or three times the value of the trees, as determined by the current standards of the International Society of Arboriculture, whichever is greater. The director may elect not to seek penalties if he or she determines that the circumstances do not warrant imposition of civil penalties in addition to restoration.

Table 18.15.010-2: Penalties

Types of Violations	Allowable Fines per Violation
1. Removal of tree(s) approved to be removed, but prior to final tree retention and planting plan approval or issuance of a city tree removal permit	\$100.00 per tree
2. Removal or damage of tree(s) that are or would be shown to be retained on an approved tree retention and planting plan or any other violation of approved tree protection plan	\$1,000 per tree
3. Removal of tree(s) without applying for or obtaining a required city land use permit	\$1,000 per tree
4. Removal of tree(s) without applying for or obtaining a required city clearing permit	\$1,000 per tree

- f. Repeat Offenders. Any person who again violates this subsection C within 12 months after having been found by the Bainbridge Island municipal court to be in violation of this subsection C commits a misdemeanor and any person who is convicted of that misdemeanor shall be punished as provided in BIMC [1.24.010.A](#).

4. Protection During Construction and Development.

- a. Intent. The intent of these regulations is to provide the best protection for significant trees and tree stands, including protection for trees on adjacent properties.
- b. Requirements.
- No cutting of significant trees shall be allowed on a site until the tree retention and planting plans have been approved by the director.
 - In order to preserve future ecological function, the applicant shall identify ~~An~~ areas of prohibited disturbance, generally corresponding to the dripline or critical root zone (as identified by a consulting arborist) of the significant trees and/or tree canopy of tree stands to be retained, buffers, areas of existing vegetation to be maintained, future raingardens, and future planting areas larger than 400 square feet (i.e. landscape islands in parking lots). ~~shall be identified by the applicant and approved by the~~ prohibited disturbance areas shall be reviewed and approved by the director as part of the land use permit review process.
 - A temporary five-foot-high chain link fence with tubular steel poles or “T” posts shall delineate the area of prohibited disturbance defined in

subsection C.4.b.ii of this section, unless the director has approved the use of a four-foot-high plastic net fence as an alternative. The fence shall be erected before construction starts and shall remain in place until construction has been completed, and shall at all times have affixed to it a sign indicating the protected area.

- iv. No impervious surfaces, fill, excavation, vehicle operations, compaction, removal of native soil or storage of construction materials shall be permitted within the area defined by the required construction fencing. If avoiding construction and compaction in areas of future planting is unavoidable, the landscape plan for the project shall include methods for aerating and/or augmenting compacted soil to prepare for new planting, pursuant to Section 18.15.010.H.2.
- v. A rock well shall be constructed if the grade level around the tree is to be raised more than one foot. The inside diameter of the well shall be equal to the diameter of the dripline or critical root zone (as identified by a consulting arborist) of the tree or tree canopy of tree stands.
- vi. The grade level shall not be lowered within the larger of (A) the dripline or critical root zone (as identified by a consulting arborist) of the tree, or the tree canopy of tree stands, or (B) the area recommended by a consulting arborist.
- vii. Alternative protection methods may be used if recommended by a consulting arborist and determined by the director to provide equal or greater tree protection.
- viii. Wherever this subsection C.4 allows or requires the involvement of a consulting arborist, that individual shall be selected from the city's list of current arborists certified by the American Society of Consulting Arborists and his or her services shall be paid for by the applicant.

D. Perimeter Buffering and Screening.

- 1. Intent. The intent of this subsection D is to provide an effective vegetated screen over time between uses or land use districts, to screen parking areas and structures located adjacent to public rights-of-way, and to allow visual and physical access to pedestrian and other nonmotorized oriented uses, such as a multipurpose trail or bikeway if those trails could be accommodated without compromising significant vegetation or hazardous slopes. Additional buffers may be required per BIMC 16.20.170, The Winslow Ravine – Special rules in Mixed Use Town Center.
- 4. General Requirements.
 - a. Full Screen. Where full screen perimeter landscaping is required, the applicant must provide:
 - i. Minimum 70 percent evergreen trees ranging in height from four feet to six feet at the time of planting with at least 50 percent being six feet high; and
 - ii. Deciduous trees with a caliper of at least two inches at the time of planting; and

- iii. At least 20 percent of the trees shall be native species and drought resistant; and
 - iv. The number of trees is determined by dividing the length of the landscape perimeter by 10 feet; and
 - v. Evergreen shrubs at least 21 inches in height at the time of planting, spaced no more than three feet on center, to achieve minimum ~~four~~ six feet height at maturity; and
 - vi. The number of shrubs is determined by dividing the length of the perimeter by four feet; and
 - vii. Living ground cover shall be planted and spaced to achieve total coverage within three years; and
 - viii. Plants may be clustered within the perimeter to screen structures and parking areas.
- b. Partial Screen. Where partial screen perimeter landscaping is required, the applicant must provide:
- i. Minimum 50 percent evergreen trees ranging in height from four feet to six feet at the time of planting with at least 50 percent being six feet high; and
 - ii. Deciduous trees with a caliper of at least two inches at the time of planting; and
 - iii. At least 20 percent of the trees shall be native species and drought resistant; and
 - iv. The number of trees is determined by dividing the length of the landscape perimeter by 20 feet; and
 - v. Evergreen shrubs at least 21 inches in height at the time of planting, spaced no more than three feet on center, to achieve minimum ~~four~~ six feet height at maturity; and
 - vi. The number of shrubs is determined by dividing the length of the landscape perimeter by five feet; and
 - vii. Living ground cover shall be planted and spaced to achieve total coverage within three years; and
 - viii. Plants may be clustered within the landscape perimeter to screen structures and parking areas.
- c. Filtered Screen. Where filtered screen perimeter landscaping is required, the applicant must provide:
- i. One hundred percent deciduous trees two-inch caliper spaced no more than 30 feet on center; and
 - ii. Evergreen shrubs minimum 21 inches in height at the time of planting spaced no more than three feet on center to provide a continuous hedge achieving a maximum height of ~~three~~ six feet at maturity; and
 - iii. Living ground cover shall be planted and spaced to achieve total coverage within three years.

G. Total Site Tree Unit Requirements.

1. Intent. The overall purpose of Section 18.15.010 is to preserve the landscape character of the community through development standards by encouraging the retention of existing vegetation and significant trees by incorporating them into site design. The intent of this subsection G is to ensure that, to the degree practicable, (a) each development approval in the MUTC, HSR I and II, R-8, R-14, and NSC zone districts and (b) each development approval for nonresidential development in the R-5, R-4.3, R-3.5, R-2.9, R-2, R-1, and R-0.4 zone districts leaves the development parcel with at least a specified minimum amount of tree coverage, measured in tree units per acre, that reflects the degree of tree coverage prior to development or redevelopment and that discourages avoidable site disturbances that would require tree removal.
2. Applicability. The regulations of this subsection G apply to each development application involving (a) any modification to a development parcel located in the MUTC, HSR I and II, R-8, R-14, or NSC districts or (b) a permitted nonresidential development in the R-5, R-4.3, R-3.5, R-2.9, R-2, R-1, and R-0.4 zone districts. If a significant portion of a significant tree trunk, dripline and/or critical root zone extends onto an adjacent property, both properties may use the tree units for retaining the trees to meet the requirements of subsection 4. These provisions shall not apply to projects involving only interior renovation of existing buildings.
3. **Site Specific Evaluation of Total Impact on Tree Coverage.**
 - a. Prior to the submission of a development application involving any modification to a development parcel that has less than 50 percent tree canopy cover prior to the proposed development or redevelopment, the applicant shall complete an inventory of all existing trees on the site indicating the species and the diameter at breast height (DBH) for each existing tree.
 - b. In order to show how the Tree Unit Requirements of subsection 4 below are being met, As part of any development application the applicant shall submit the following information as part of the landscaping plan information for a land use permit application:
 - i. Identify and survey all existing trees to be removed retained as part of the proposed development; and
 - ii. If opting to meet Tree Unit Requirements pursuant to 4.a.iii below, the applicant shall identify the species and DBH of each tree to be removed.
 - iii. The applicant shall also submit valuation of all trees to be retained, using the valuation standards of the International Society of Arboriculture (see Administrative Manual for submittal requirements for Landscaping Plans).
4. Requirements.
 - a. A development application covered by subsection G.2 of this section shall only be approved if it complies with the requirements of subsections C (Tree Retention, Protection, and Replacement), D (Perimeter Buffering and Screening), E (Street Frontage Landscaping), and F (Parking Lot Landscaping)

of this section, and also complies with subsection G.4.a.i, ii or iii of this section.

- i. In the MUTC central core and ferry terminal overlay districts, the development parcel shall have at least 30 tree units per acre following the proposed development or redevelopment.
 - ii. In the MUTC Ericksen Avenue, Madison Avenue, and gateway overlay districts, and each site in the R-8, R-14, HSR I and II, and NSC districts, and for permitted nonresidential development in the R-5, R-4.3, R-3.5, R-2.9, R-2, R-1, and R-0.4 zone districts, the development parcel shall have at least 40 tree units per acre following the proposed development or redevelopment.
 - iii. As an alternative to subsections G.4.a.i and ii of this section, and at the applicant's option, the development parcel will contain at least the same number of tree units after the proposed development or redevelopment as it had before that development or redevelopment.
- b. All existing trees preserved and all new trees planted on the site, including but not limited to those required to be preserved pursuant to subsection C of this section or those required to be replaced or planted pursuant to subsection D, E, or F of this section, shall count towards the required number of tree units.

5. Calculation of Tree Units.

- a. Each tree preserved on a development parcel shall earn the number of tree units shown in Table 18.15.010-7, based on its diameter at breast height (DBH) **as measured in inches**. If the DBH measurement results in a fraction, the requirement shall be rounded to the nearest whole number (greater than or equal to 0.5 is rounded up; less than 0.5 is rounded down).

Table 18.15.010-7: Tree Unit Conversion Table for Preserved Trees [1]

DBH	Tree Units	DBH	Tree Units	DBH	Tree Units
4 – 5	1.0	16 – 18	3.2	27 – 28	7.0
6 – 10	1.2	19 – 20	3.8	29 – 30	7.8
11 – 12	1.4	21 – 23	4.6	30+	8.2
13 – 15	2.0	24 – 26	6.2		

[1] For multi-stemmed trees, measure the DBH of each trunk separately, multiply each of these measurements by itself, add up these amounts, and calculate the square root of that total to find the DBH for the tree as a whole.

b. Tree Retention Bonus.

- i. If retained trees occur in a tree stand, they shall earn 1.2 times the tree unit value shown in Table 18.15.010-7. This bonus does not apply to tree stands that must be retained anyway, such as trees in a roadside or wetland buffer area.
- ii. If the retained trees occur in a tree stand that is adjacent to a tree stand on an adjacent lot that is already protected as part of a land use permit or conservation easement, they shall earn 1.5 times the tree unit value shown in Table 18.15.010-7 instead of the bonus described in subsection G.5.b.i.

of this section. This bonus does not apply to tree stands that must be retained anyway, such as trees in a roadside or wetland buffer area.

- iii. If the retained tree is one designated through the City's Heritage Tree Program it shall earn ~~1.5~~ two (2) times the tree unit value shown in Table 18.15.010-7, and the tree shall not receive additional bonus in subsections G.5.b.1 and 2 of this section for location in a tree stand.
- iv. If the retained tree is located within a designated Wildlife Corridor Network, it shall earn 1.5 times the tree unit value shown in Table 18.15.010-7.
- c. Each new or replacement tree planted shall earn ~~the following number of one tree unit, credits:~~ New trees planted to meet the minimum parking lot landscaping requirements of Section 18.15.010.F BIMC do not count towards meeting tree unit credits under this section. New trees planted in or around a parking lot that exceed the minimum requirements of subsection F can be counted towards meeting required tree units.
 - i. ~~Each tree with a height at maturity of 40 feet or less shall be equal to one-half tree unit. Height at maturity shall be as defined in the current edition of the Manual of Woody Landscape Plants: Their Identification, Ornamental Characteristics, Culture, Propagation and Uses, Michael A. Dirr.~~
 - ii. ~~Each tree with a height at maturity of more than 40 feet shall be equal to one tree unit.~~
- d. If, after complying with subsections C, D, E, and F of this section, additional trees need to be planted to meet the minimum tree unit requirements in subsection G.3 of this section:
 - i. In the MUTC central core and ferry terminal overlay districts, those trees may be planted either at ground level or above ground level (such as a patio, terrace, or rooftop); and
 - ii. In the MUTC Ericksen Avenue, Madison Avenue, and gateway overlay districts, R-8, R-14, HSR I and II, NSC districts, as well as for nonresidential developments within residential districts, those trees shall be planted at ground level.

H. Planting Requirements.

- 1. Intent. The intent of this section is to encourage the use of native species and recommend planting conditions adaptive to Bainbridge Island.
- 2. Requirements. Landscape designs shall conform to the following provisions:
 - a. Areas not devoted to landscape required by this chapter, parking, structures and other site improvements are encouraged to be planted or remain in existing vegetation.
 - b. New plant materials shall include native species or nonnative species that have adapted to the climatic conditions of the coastal region of the Puget Sound Region.
 - c. New plant materials shall consist of drought resistant species, except where site conditions within the required landscape areas assure adequate moisture for growth.

- d. New tree plantings shall be a minimum of two inches in caliper if deciduous or six feet in height if evergreen. New shrubs planted in roadside or perimeter buffers shall be of a variety that achieves a minimum six feet height at maturity. Soil planting types and depth shall be sufficient for tree planting.
- e. When the width of any landscape strip is 20 feet or greater, the required trees shall be staggered in two or more rows.
- f. Existing vegetation may be used to augment new plantings to meet the standards of this chapter.
- g. Grass may be used as a ground cover where existing or amended soil conditions assure adequate moisture for growth.
- h. Ground cover areas shall contain at least two inches of composted organic mulch at finish grade to minimize evaporation. Mulch shall consist of materials such as composted yard waste, composted sawdust, and/or manure that are fully composted.
- i. Existing and/ or compacted soils may need to be augmented with fully composted organic material or aerated.
- j. Specific submittal requirements for landscaping plans (tree protection, retention and planting plans) are included in the city's administrative manual.

3. Performance Assurance.

- a. Performance assurance is required to assure the city that the landscape, required by this section, is properly installed, will become established and be adequately maintained.
- b. The required landscape shall be installed prior to the issuance of a temporary certificate of occupancy for the project. The Washington landscape architect, Washington certified nursery professional or Washington certified landscaper shall submit a landscaping declaration to the director to verify installation in accordance with the approved plans.
- c. The time limit for compliance may be extended to allow installation of landscaping during the next appropriate planting season as approved if the director determines that a performance assurance device, for a period of not more than one year, will adequately protect the interests of the city. The performance assurance device shall be for 150 percent of the cost of the work or improvements covered by the assurance device. In no case may the property owner delay performance for more than one year.
- d. The form and type of the performance assurance device shall be determined by the director.

4. Maintenance Assurance.

- a. The property owner shall replace any unhealthy or dead plant materials in conformance with the approved planting plan.
- b. A maintenance assurance device shall be required for a period of five ~~three~~ years after acceptance by the city of the new planting or transplanting of vegetation to ensure proper installation, establishment, and maintenance.
- c. The maintenance assurance device amount shall not be less than 20 percent of the cost of replacing materials covered by the assurance device.
- d. The form and type of the maintenance assurance device shall be determined by the director.

Section 3. Section 18.36.030 of the Bainbridge Island Municipal Code is amended to read as follows:

“Heritage Tree” means a tree that has been nominated and approved as such through the Heritage Tree Program, Resolution 2014-19.

“Significant tree” means: (a) an evergreen tree 10 inches in diameter or greater, measured four and one-half feet above existing grade; or (b) a deciduous tree 12 inches in diameter or greater, measured four and one-half feet above existing grade; ~~or~~ (c) in the Mixed Use Town Center and High School Road zoning districts, any tree 8 inches in diameter or greater, measured four and one-half feet above existing grade; or (d) all trees located within a required critical area buffer as defined in Chapter 16.20 BIMC.

Section 4. This ordinance shall take effect and be in force five (5) days from its passage, approval, and publication as required by law.

PASSED BY THE CITY COUNCIL this ____ day of _____, 2015.

APPROVED BY THE MAYOR this ____ day of _____, 2015.

Anne S. Blair, Mayor

ATTEST/AUTHENTICATE:

Rosalind D. Lassoff, CMC, City Clerk

FILED WITH THE CITY CLERK:	XXXX, 2015
PASSED BY THE CITY COUNCIL:	
PUBLISHED:	
EFFECTIVE DATE:	
ORDINANCE NUMBER:	2015-04