Decision Table G. Willamette River - Environment

Many pieces of testimony focused on:

- The width of the river setback including requests to retain the existing 25 ft setback be retained, support for the proposed expansion of the setback to 50 ft and requests for an even wider setback.
- Landscaping standards and tree replacement requirements.
- Development standards within the river environmental overlay zone including the location and size of the trail, size of public viewing areas and mitigation requirements.

Contents of Decision Packet G:

- Decision Table G
- Memo G

Items Marked for PSC Discussion:

• G1: Four requests related to landscaping in the setback.

| Ref# | Comment | Commenter(s) | Proposed draft | Request(s) | Staff recommendation | Staff rationale | Discuss? | PSC decision |
|--------|---------|-----------------------|--|--|--------------------------------|--|----------|--------------|
| G1 | 20428 | Robin Cody | Zoning code 33.475.220 establishes a new | Most comments were generally in | 1. Proposed amendment to | 1. There are two potential public swimming beach | X | ☐ Support |
| | 20481 | Jeanne Galick | landscaping standard for the river setback | support of landscaping in the setback. | exempt the Eastbank | areas identified within the Central City – | | staff rec. |
| and | 20558 | Bruce Stephenson | area. The setback must be landscaped | Three specific requests were made: | Crescent beach area from the | Hawthorne Bowl at Tom McCall Waterfront Park | | ☐ Other |
| | 20580 | Jeffrey Lang | based on Table 475-1. See Volume 2A, Part | 1.Do not require landscaping on | landscaping requirement. | and Eastbank Crescent near Holman Dock. The | | - Other |
| Memo G | 20688 | Bob Sallinger, on | 2 pages 24-30. | public beaches. | 2. Proposed amendment to | code already exempts Waterfront Park from the | | |
| Page 2 | | behalf of the Audubon | | 2.Allow more flexibility in the | allow landscaping | landscaping standard. The exemption is expanded | | |
| Ĭ | | Society of Portland | | landscaping requirements for | requirements for Subarea 1 | to include the public beach area, as mapped, at | | |
| | 20846 | Mike Abbate, PPR | | Subarea 1. Plants installed in river | to be planted anywhere on | Eastbank Crescent. | | |
| Ĭ | 20901 | Scott Fogarty, on | | banks previously armored with rip | site if Subarea 1 is 30% slope | 2. Vegetation planted into existing steep and | | |
| Ĭ | | behalf of Friends of | | rap are unlikely to survive. | or greater and is armored | armored banks has a low survival rate. The | | |
| Ĭ | | Trees | | Requiring retroactively adding | with rip rap. A new fee-in- | amendment would allow that vegetation to be | | |
| Ï | 20924 | Mary Volgel | | planting wells, as currently | lieu option is also added. | planted anywhere else on the site; would have to | | |
| Ï | 20940 | Jeffrey Lang | | proposed, to an armored bank | 3.Proposed amendment to | be the equivalent in size to the subarea 1; and | | |
| Ĭ | 20973 | Jeanne Galick | | could be costly and could | clarify that vegetation | would have to be planted to the same densities | | |
| Ï | 20361 | Elaine Birkett | | undermine the integrity of the | planted within resources | required by Table 475-1 for Subarea 1. Alternately, | | |
| Ï | 20464 | Dana Coffee | | armoring. | enhancement area, | the applicant may choose to pay a fee-in-lieu to | | |
| Ĭ | 20375 | Emily Hitchcock | | 3.Be clear that vegetation planted | mitigation areas or clean-up | BES, which would plant off-site but within the | | |
| Ï | 20901 | Jeffrey Lang | | within resource enhancement | sites can be counted towards | same river reach. | | |
| Ï | 21041 | Jeffrey Lang | | areas, mitigation areas or clean-up | meeting the landscaping | 3. The intent is to make sure the river setback is | | |
| Ï | 20689 | Dana Coffee | | sites can be counted towards | standard. | landscaped. If the area is landscaped to meet the | | |
| Ï | 21036 | Jeanne Galick | | meeting the landscaping standards. | 4. Retain the Proposed Draft | enhancement standards, then it will also meet the | | |
| Ï | | Commissioner Houck | | 4. Require a specific timeframe within | version which includes no | landscaping standards. This is similar for | | |
| Ï | | | | which landscaping must be | changes to the existing | mitigation plantings and planting of clean-up sites. | | |
| Ï | | | | installed. | timeframes for installing | With mitigation areas, the ratio of 1.5:1 may result | | |
| Ï | | | | | landscaping. | additional required plantings outside of the | | |
| Ï | | | | | | setback. | | |
| 1 | 1 | | | | | 4. Landscaping must be installed when the temporary | | |
| 1 | 1 | | | | | disturbance is completed (in the case of an | | |
| 1 | 1 | | | | | exemption or standard) or as specified in the | | |
| 1 | 1 | | | | | conditions of land use approval or the building | | |
| 1 | 1 | | | | | permit. | | |

| Ref# | Comment | Commenter(s) | Proposed draft | Request(s) | Staff recommendation | Staff rationale | Discuss? | PSC decision |
|------|---------|-------------------------|--|--|---------------------------|--|----------|--------------|
| G2 | 20333 | Dana Krawczuk, on | Zoning Code 33.475.210 expands the river | 1. Widen the setback to 75 ft. | Retain the Proposed Draft | As documented in Portland's Natural Resources | | ☐ Support |
| | | behalf of Haithem | setback from the existing 25 feet from top- | Require that the first 40 ft. be | version | Inventory, recently adopted with the Comprehensive | | staff rec. |
| | | Toulan | of-bank to 50 feet from top-of-bank. River- | dedicated to natural resource | | Plan, a 50-foot setback is the absolute minimum | | ☐ Other |
| | 20375 | Emily Hitchcock | dependent and river-related development | restoration and protection and the | | width for a functioning riparian area, if the floodplain | | - Other |
| | 20481 | Jeanne Galick | (e.g., docks) is allowed within the setback. | remaining 35 ft. be where the trail, | | is less than 50 feet from top-of-bank. Ideally, the | | |
| | 20524 | William Savery | All other development (e.g., offices, | viewpoints and other development | | setback should be 100 feet or the floodplain, | | |
| | 20558 | Bruce Stephenson | parking) must be outside of the setback | is allowed. | | whichever is larger, to be protective of ESA-listed fish | | |
| | 20563 | Mark Wilson | area or must get a Greenway Goal | 2.Keep the setback at 25 ft. Sites are | | species. | | |
| | 20580 | Jeffery Land | exception. | already constrained with other | | | | |
| | 20688 | Bob Sallinger, on | | requirements and requiring more | | Most of the Central City is already developed based | | |
| | | behalf of the Audubon | *Note – This change does not apply to | setback from the river will make | | on the existing 25-foot setback. There are only five | | |
| | | Society of Portland | South Waterfront. The South Waterfront | some sites difficult to develop. | | riverfront sites identified in the Comp Plan as BLI | | |
| | 20701 | Michael Jordan, BES | setback requirements are not proposed to | 3.Don't set a precedent for the North | | sites and expected to develop by 2035. | | |
| | 20886 | Faye Brown, PDC | change. | or South Reach. | | | | |
| | 20940 | Jeffery Lang | | | | Increasing the setback to 50 feet will result in | | |
| | 20944 | Richard Allan, on | | | | development becoming non-conforming. Increasing | | |
| | | behalf of American | | | | the setback to 75 feet or wider would significantly | | |
| | | Waterways | | | | increase the amount of non-conforming | | |
| | 20973 | Jeanne Galick | | | | development. Although the develop is non- | | |
| | 20327 | Tammi Harper | | | | conforming, it could be maintained, repaired and | | |
| | 21033 | Mike Lindberg | | | | replaced in its current footprint within the setback. | | |
| | 20183 | McDonough | | | | | | |
| | 20375 | Emily Hitchcock | | | | The setback width should be considered in the | | |
| | 20482 | Dee Walsh | | | | context of each river reach. The Central City decision | | |
| | 20497 | Willie Levenson | | | | on the setback width does not a precedent for the | | |
| | 20501 | Saver/Meredith | | | | North or South Reach. The commentary (Volume 2A, | | |
| | 20506 | Peter Fry, on behalf of | | | | Park 2, page 19) includes language to that effect. | | |
| | | CEIC | | | | | | |
| | 20710 | Merril Redish, on | | | | | | |
| | | behalf of Urban | | | | | | |
| | | Forestry Commission | | | | | | |
| | 20857 | Steve Abel, on behalf | | | | | | |
| | | of Albers Mill | | | | | | |
| | 20901 | Scott Fogarty | | | | | | |
| | 20949 | Jeanne Galick | | | | | | |
| | 21044 | Lisa Abuaf, PDC | | | | | | |
| | 21036 | Jeanne Galick | | | | | | |
| | 21041 | Jeffery Lang | | | | | | |
| | 21037 | Bob Sallinger, on | | | | | | |
| | | behalf of the Audubon | | | | | | |
| | 20054 | Society of Portland | | | | | | |
| | 20961 | Dan Yates, on behalf | | | | | | |
| | | of American | | | | | | |
| | | Waterways | | | | | | |
| | | Commissioner Houck | | | | | | 1 |

| Ref# | Comment | Commenter(s) | Proposed draft | Request(s) | Staff recommendation | Staff rationale | Discuss? | PSC decision |
|-------------------------------|--|---|--|--|---|--|----------|------------------------------|
| G3 | 20949 | Jeanne Galick Commissioner Houck | Zoning code 33.475.210.E allows no more than 5 feet of encroachment into the setback provided an additional area is provided to offset the encroachment. | Do not allow any encroachment into the setback because a 50-foot setback is already the absolute minimum needed for riparian function. | Retain the Proposed Draft version | This is needed to allow flexibility for development on narrow, small or irregularly shaped sites. The encroachment standard will maintain the same total area of setback on any given site by requiring an offset to the encroachment area. | | ☐ Support staff rec. |
| G4 and Memo G Page 8 | 20481 20482 20524 20688 20701 21036 | Jeanne Galick Jeanne Galick William Savery Bob Sallinger, on behalf of the Audubon Society of Portland Michael Jordan, BES Jeanne Galick Commissioner Houck | Zoning code 33.475.440.B.2 proposes an exemption for removal and pruning of vegetation in the river environmental overlay zone under specific circumstances (e.g., nuisance, dead, dying or dangerous plants). Temporary disturbance areas must be landscaped per 33.475.220. See Volume 2A, Part 2, page 12. Zoning code 33.475.440.J proposes a standard for tree removal that is not exempted by 33.475.040.B.2. Trees over 6 inches in diameter must be replaced. See Volume 2A, Part 2, page 46. | 1. Move the exemption for vegetation removal and pruning to a standard because a plan check is needed to ensure the conditions for removal/pruning are met. 2. Reduce the size of tree allowed to be removed from 6 inches in diameter to 1.5 inches in diameter. | 1. Proposed amendment to combine the vegetation removal and pruning exemption and the tree removal standard. See Attachment G4. 2. Proposed amendment to require replacement of trees >1.5" in diameter that are removed. Any trees planted as part of meeting the landscaping standard may be counted towards meeting the tree replacement requirements. | · · · · | | ☐ Support staff rec. ☐ Other |
| and Memo G Page 11 | 20324 | Staci Monroe, BDS Commissioner Houck | Zoning code 33.430.080.C. exemptions from the environmental overlay zones throughout the city was updated to clarify that that the exemption applies to pruning of vegetation and to clarify how the exemption applies to view corridors with special height restrictions. 33.430.195 is a proposed a new standard to allow tree removal within scenic overlay zones. See Volume 2A, Part 2, pages 87-93. | restrictions and view corridors within the scenic overlay zone. 3. Require that all trees that are removed be replaced. | Proposed amendment to require the temporary disturbance be replanted. Proposed amendment to clarify code regarding view corridors. Retain Proposed Draft version. | 1. This citywide code requires permanent erosion control, such as replanting areas of bare soil. The amendment would require that areas of bare soil be replanted. 2. The Proposed Draft incorrectly references the view corridor maps. Map 480-2 shows view corridors with special height restrictions. Removal of trees that exceed the special height restrictions is exempt from the environmental zoning code. 3. Zoning code 33.430.080 applies city wide. Staff recommend considering updates to the tree replacement standards as part of a city wide project. | | ☐ Support staff rec. ☐ Other |

| Ref# | Comment | Commenter(s) | Proposed draft | Request(s) | Staff recommendation | Staff rationale | Discuss? | PSC decision |
|--------------------------------|---------|-------------------|--|--|--|---|----------|------------------------------|
| G6 | 20846 | Mike Abbate, PPR | Zoning code 33.475.440, Development Standards, does not require mitigation for development of public viewing areas or major public trails but does require mitigation for other development in a park. | 1.In 33.475 clarify and make consistent when mitigation is required and when it is not. 2.Do not require mitigation for development within a park. | Retain the Proposed Draft version | 1. Designated viewpoints (shown on map 480-1) and the Greenway Trail are public goods required within the Greenway Boundary and the preferred location is along the Willamette River within the river setback and thus within the river environmental overlay zone. Because the City requires that the viewing areas be developed and the trail be dedicated or constructed, mitigation for the resulting impacts is not required. Tree replacement is required. 2. Other impacts within the Greenway Boundary may be able to avoid the river environmental overlay zone and thus avoid any mitigation requirements. If impacts within the river environmental overlay zone cannot be avoided, then mitigation is required. For example, if a property owner wants to develop a restroom facility, that structure could be located outside of the river e-zone and mitigation would not be required. | | ☐ Support staff rec. ☐ Other |
| G7 and Memo G Page 12 | 20846 | Mike Abbate, PPR | Zoning code 33.475.440.E is a standard for public viewing areas within the river ezone. The standard allows for 500 square feet of disturbance. If the viewing area cannot meet the standard, then river review is required. | Increase the size allowed by standard to allow larger viewing areas. | Retain the Proposed Draft version | The crux of the issue is the threshold between what is allowed through a standard and what should be reviewed through River Review. A standard only requires a plan check at the BDS counter. There is no public notice and no opportunity for bureaus, agencies or the public to weight in. The proposed standard allows for a paved 20x25 foot viewing area with amenities like a bench or signs. This is a sufficient size for most viewing areas along the Greenway Trail. (For reference, see Memo page G-12 with examples of two viewpoints in the Central City.) If a developed viewing area larger than 500 sq ft is desired or needed, then it can be approved through River Review. | | ☐ Support staff rec. ☐ Other |
| G8 and Memo G Page 13 | 20324 | Staci Monroe, BDS | Zoning code 33.475.440.G includes standards for resource enhancement projects. The standard requires improvement of at least one functional value and limits the amount of impacts to the resources. | Add that standards for tree removal must be met. Revise commentary related to native vegetation. | Proposed amendments to 1. Require the replacement of trees removed within enhancement areas. 2. Remove commentary regarding staff evaluating removal of native vegetation. | 1. Adding the requirement to replace trees is consistent with other standards in river environmental overlay zone. 2. The commentary is incorrect. Because this is a standard, not a discretionary review, staff will not be evaluating the removal of native vegetation. If the standard is met, then the proposal is approved. Evaluation of removal of native vegetation would only occur if the standard is not met and river review is required. | | ☐ Support staff rec.☐ Other |

| Ref# | Comment | Commenter(s) | Proposed draft | Request(s) | Staff recommendation | Staff rationale | Discuss? | PSC decision |
|------|---------|-------------------|--|--|--|---|----------|------------------------------|
| G9 | 20324 | Staci Monroe, BDS | The Proposed Draft includes a few revisions to the existing 33.430, Environmental Overlay Zones chapter. One of those revisions was to limit tree removal associated with construction of a public trail to equipment with a surface-to-ground pressure of no more than 7.5 psi. | removal with equipment with a surface-to-ground pressure of no more than 7.5 psi. | 33.430.190.E.1 to read "Native trees up to 12 inches in diameter and non-native trees may be removed. with | When constructing public trails, equipment larger than that with a surface-to-ground pressure of no more than 7.5 psi is typically necessary. The Proposed Draft edit was not intended to prohibit larger equipment from being used to construct public trails. The rest of the standard for major public trails will be retained, including that trees must be replaced per Table 430-3. | | ☐ Support staff rec. ☐ Other |
| G10 | 20324 | Staci Monroe, BDS | The Proposed Draft does not include amendments to Title 11. | The Proposed Draft proposes a new River Overlay chapter. This overlay zone is not currently identified in Title 11 and should be added. | Table 40-1, Tree Removal in Overlay Zones and Plan | Table 40-1, Tree Removal in Overlay Zones and Plan Districts, lists tree permit requirements in other overlay zones and plan districts. The Proposed Draft calls for the establishment of a new River Overlay zones that should be added to the table in Title 11, once the Title 33 provisions are adopted. | | ☐ Support staff rec. |



Bureau of Planning and Sustainability

Innovation. Collaboration. Practical Solutions.

MEMO

DATE: October 31, 2016

TO: Planning and Sustainability Commission

FROM: Mindy Brooks, City Planner II

COPY: Susan Anderson, Director; Joe Zehnder, Chief Planner; Sallie Edmunds,

Central City Planning Manager

SUBJECT: Attachment for Decision Table G: Willamette River - Environment

33.475 and 33.430 in the Proposed Draft Central City 2035 Plan. Specific changes include the This memorandum contains BPS staff-recommended revisions to portions of Zoning Code sections following items described in Decision Packet G:

Discussion Item

G1: 33.475.220.B and 33.475.220.C (page 2 – 7)

- Adding Eastbank Crescent to the list of beaches exempt from the landscaping standard
- clean-up can be counted toward meeting the landscaping standard Clarifying that planting done as part of resource enhancement, mitigation or contamination
- Adding flexibility for steep banks armored with rip rap.

Other Items

G4: 33.475.040.B.2 and 33.475.440.J (page 8 – 10)

- Updating the exemption for minor removal of vegetation with hand held equipment.
- vegetation and removing duplication within the standard. Moving the remainder of the exemption to the standards for removal and pruning of
- Requiring trees 1.5 inches in diameter or larger to be replaced.
- Adding that tree replacement is required for resource enhancement projects.
- Clarifying map references.

G5: 33.430.080.C (page 11)

- Requiring that areas of bare soil that result from vegetation removal are replanted.
- Correcting map references.

G7: No zoning code changes. Examples of developed viewing areas are provided to support retaining the Proposed Draft version. (page 12)

()

G8: 33.475.440.G (page 13)

- Adding that public trails are allowed within resource enhancement areas.
- Adding that tree replacement is required within resource enhancement areas.
- Clarifying the commentary to match the standard.

Changes from textin the Proposed Draft are highlighted.

G1 – River Setback Landscaping Standards

33.475.220.B

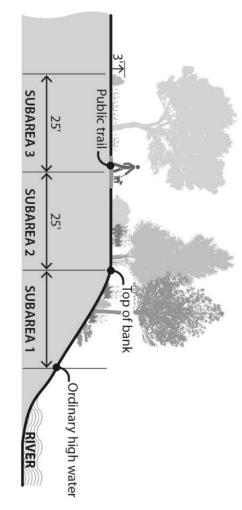
are prohibited. The following regulations apply in the River General overlay zone. Modifications and adjustments

Ņ and create visual diversity. The regulations are also intended to accommodate safe and Willamette River. Adding a diversity of vegetation within the river setback will improve Purpose. The landscaping regulations are intended to increase vegetation along the enjoyable public access to and along the Willamette River. multiple ecosystem functions, increase fish and wildlife habitat, provide shade, cool the air,

B. Required landscaping.

- 475-3, are exempt from this Section. Governor Tom McCall Waterfront Park and the Eastbank Crescent, shown on Map
- , density 3 for subarea 2, and planting density 1 for subarea 3. planting density 1 for all the subareas, or planting density 2 for subarea 1, planting than one planting density may occur on a site. For example, the applicant may choose may choose which planting density standard to apply within each subarea, and more below. There are three planting densities allowed within each subarea. The applicant Required landscaping for all other areas. For all other areas, land within and developed with a trail or viewing area must be landscaped to meet Table 475-1, Landscaping Planting Density. Subareas are shown on Figure 475-3 and described riverward of the river setbackthat is not covered with a building or other structure or
- Willamette River. Subarea 1 extends from the ordinary high water mark to the top of bank of the
- Þ of the top of bank of the Willamette River Subarea 2. Subarea 2 extends from the top of bank to a point 25 feet landward
- ? and a point 50 feet landward of the top of bank of the Willamette River. Subarea 3. Subarea 3 extends from a point 25 feet landward of the top of bank





- d. Vegetation planted to meet the resource enhancement standards of neeting the landscaping standard. ontaminated sites requirements of 33.475.500 may be counted towards .475.440.G, the mitigation standards of 33.475.440. Kor the clean-up o
- Exceptions.
- Landscaping is not required within resource enhancement areas that meet the standards of 33.475.440.G;
- Landscaping is not required within mitigation areas that meet the standards of 33.475.440.K;
- Landscaping is not required within portions of sites where contamination removal or remediation meet the standards of 33.475.500;
- <u>4</u> acre; Within utility easements trees and shrubs are not required but the area must be seeded with a grassand forb seed mix at a ratio of 30 pounds per
- (5) corridor; or ratio of 30 pounds per acre. Trees may not be planted within a scenic view Map 480-1 but the area must be seeded with a grass and forb seed mix at a Trees and shrubs are not required within a scenic view corridor shown on
- (6) overlay zone, or the applicant may pay a revegetation fee-in-lieu as If the area to be landscaped within subarea 1 has an average slope of 30 ercent or steeper (30 percent slope represents a rise over run ratio of rmored with rip rap, or the area within subarea 1 has rip rap that is at least four feet thick, then the required subarea 1 landscaping may be planted 3.3) and the area with an average slope of 30 percent or steeper is an area of the site that is outside of subarea 1 but within the River

described below. If the landscaping will be provided on-site, the total area one landscaped area may be provided to achieve the total, but other outside of subarea 1 to be landscaped must be equivalent in size to the area required landscaping may not count toward the total: hat would have been required to be landscaped in subarea 1. More than

- Revegetation fee-in-lieu use and administration. Bureau of Environmental Services. Мар 475-1 evegetation projects on public or private property within the same each of the Willamette River as the site. The reaches are shown on ollected by Bureau of Development Services and is administered by the The fees collected are used for The revegetation fee is
- <u>and maintenance.</u> groundcover plants as set out in the next bullet. The cost to purchase Calculation of required fee-in-lieu contributions. Applicants must the Director of BES based on current market prices for materials, labor ontribute the cost to purchase and plant trees, shrubs and nd plant trees and plants will be adjusted annually as determined by
- Required fee-in-lieu contribution. The applicant must contribute the <u>n this calculation is 100 square feet. Calculations that are not a multiple</u> ounded up to the next multiple of \$10. The minimum area to be used before a building permit will be issued. The fee calculation will be ost to purchase, plant and maintain one tree, three shrubs and four f 100 will be rounded up to the next multiple of 100 round cover plants per 100 square feet of required planting area

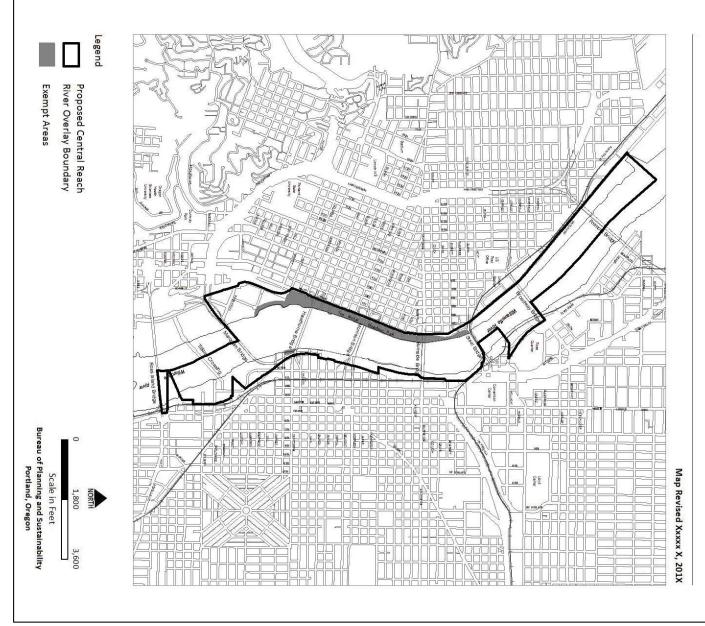
| Landscaping Subarea 3 | Landscaping Subarea 2 | Landscaping Subarea 1 | Subarea |
|--|---|--|--|
| One tree for every 100 square feet and seeded with a grass and forb seed mix at a ratio of 30 pounds per acre. Trees must be separated from other trees by at least 20 feet on center. Shrubs or other ground cover are not required, however if they are included they must meet the standards for Landscaping Subarea 2. | One tree and one of the following two options for every 100 square feet. Trees must be separated from other trees by at least 20 feet on center. Shrub species must not exceed 3 feet in height at maturity. Option 1: Three shrubs and seeded with a grass and forb seed mix at a ratio of 30 pounds per acre; or Option 2: Three shrub and four other groundcover plants. | One tree, three shrubs, and four other ground cover plants must be planted for every 100 square feet. Trees may be clustered. All plants must be native. | Land Planting Density 1: Small Trees[1] |
| One tree for every 200 s quare feet and seeded with a grass and forb seed mix at a ratio of 30 pounds per acre. Trees must be separated from other trees by at least 20 feet on center. Shrubs orother ground cover are not required, however if they are included they must meet the standards for Landscaping Subarea 2. | One tree and one of the following two options for every 200 square feet. Trees must be separated from other trees by at least 20 feet on center. Shrub species must not exceed 3 feet in height at maturity. Option 1: Six shrubs and seeded with a grass and forb seed mix at a ratio of 30 pounds per acre; or Option 2: Six shrub and eight other groundcover plants. | One tree, six shrubs, and eight other ground cover plants must be planted for every 200 square feet. Trees may be clustered. All plants must be native. | Table 475-1 Landscaping Planting Density Planting Density 2: Medium Trees[1] |
| One tree for every 300 square feet and seeded with a grass and forb seed mixata ratio of 30 pounds per acre. Trees must be separated from other trees by at least 20 feet on center. Shrubs or other ground cover are not required, however if they are included they must meet the standards for Landscaping Subarea 2. | One tree and one of the following two options for every 300 square feet. Trees must be separated from other trees by at least 20 feet on center. Shrub species must not exceed 3 feet in height at maturity. Option 1: Three shrubs and seeded with a grass and forb seed mix at a ratio of 30 pounds per a cre; or Option 2: Nine shrub and 12 other groundcover plants. | One tree, nine shrubs, and 12 other ground coverplants must be planted for every 300 square feet. Trees may be clustered. All plants must be native. | Planting Density 3: Large Trees[1] |

- Ċ **Landscapedarea site preparation.** Before installing the required landscaping, the following standards must be met:
- All prohibited and nuisance plants listed on the *Portland Plant List* must be removed within and riverward of the river setback.

- 2 conforming structures, erosion control measures, flood control facilities, large wood, of plant materials or soil cells wrapped in biodegradable fabrics. and bioengineered structures. Examples of bioengineered structures include bundles All structures and debris located within and riverward of the river setback must be removed except for river-dependent and river-related structures, legal non-
- ώ of the following: be placed in planting wells. The composition of the growing medium must meet one rise over run ratio of 1:5 <mark>1:3.3),</mark> and is armored with rip rap, the growing medium may If the area to be planted is not currently vegetated, the soil must be amended with 12 <u>30 percent or less steep 20 percent of steeper slope (20<u>30</u> percent slope represents a</u> inches of growing medium. If the planting area in subarea 1 has a <mark>an average slope o</mark>
- a. percent plant material compost (by volume); or medium must be a blend of loamy soil, sand, and compost that is 30 to 40 For all planting areas located outside of the flood hazard area, the growing
- ġ. support the establishment and growth of vegetation, and is heavier than water. architect or civil engineer must certify that the growing medium is adequate to must be a blend of loamy soil, sand, small gravels and compost. A landscape For all planting areas located within the flood hazard area, the growing medium
- 4 Placement of the growing medium is not allowed when the ground is frozen or
- Ģ whichever is sooner. or removed after permanent stabilization measures are functional or within 3 years, measures are functional. Temporary erosion control measures must be biodegradable Temporary erosion control measures are required until permanent stabilization
- Ö sizes, three different shrub, and four different groundcover species must be used equivalent. For planting areas over 600 square feet, at least two different tree species and of one gallon size or bareroot. All other species must be a minimum of four-inch pots or **Plant requirements.** Trees must be a minimum $\frac{1}{2}$ -inch caliper, bareroot, or live stakes. unless they are oak or madrone, which may be one gallon size. Shrubs must be a minimum

Areas Exempt from Landscaping Requirements

Map 475-3



G4 – Removal and Pruning of Vegetation in the Central City

33.475.040.B.2. Exemptions

or trees 1.5 inches in diameter or smaller. The removal or pruning may not be done Removal or pruning of vegetation that is not listed as native on the Portland Plant List replanted to meet the subarea 3 standard of Table 475-1. <u>within the river setback must be replanted to meet the relevant subarea standards of</u> <u> Fable 475-1, and temporary disturbance located outside the river setback must be</u> with equipment other than handheld equipment. Temporary disturbance located

Removal and pruning of vegetation if the following are met:

- All vegetation removal activities must be surrounded or protected to resources on the site; prevent erosion and sediment from leaving the site or negatively impacting
- (2) The removal or pruning is conducted with handheld equipment or equipment with a wheel surface to ground pressure of no more than 7.5
- standards of 33.475.220; and Any temporary disturbance area is planted to meet the landscaping
- The vegetation that is proposed for removal or pruning is one of the tollowing !
- Vegetation listed on the Nuisance Plant List;
- Dead, dying or dangerous trees or portions of trees when they pose an arborist; immediate danger, as determined by the City Forester or certificate
- exempt. View corridors are shown on Map 480 1; or Vegetation located within a designated view corridor. Tree removal is not
- Vegetation located within 10 feet of an existing structure. Tree removal

33.475.440. Development Standards

alterations in the River Environmental overlay zone. All of the applicable standards must be met. Unless exempted by 33.475.040.B.2., the standards in this Section apply to development and exterior Modification of any of these standards requires approval through River Review.

- Standards for removal or pruning of vegetation tree removal. The following standards apply to the removal <u>or pruning of vegetation trees 6 inches or greater in diameter</u>
- All vegetation removal activities must be surrounded or protected to prevent erosion and sediment from leaving the site or negatively impacting resources
- The removal or pruning must be conducted with handheld equipment or equipment with wheel surface-to-ground pressure of no more than 7.5 psi
- standard in Table 475-1 in areas outside of the greenway setback; Any temporary disturbance area must be planted to meet the landscaping standards of
- The vegetation that is removed or pruned must be limited to the following
- listed on the Nuisance Plant List;
- other trees authorizes the removal because the wood is diseased and will threaten the health of Dead, dying or dangerous trees or portions of trees when they pose an immediate wood more than 12 inches in diameter must be placed in the environmental overlay langer, as determined by the City Forester or certificate arborist. All sections of one of the ownership within which the wood was cut unless the City Forester
- Vegetation that exceeds the height restriction of a view corridor shown on Map 480
- #d. Trees that are not native trees on the Portland Plant List may be removed with hand held equipment or equipment with a wheel surface to ground pressure of no more
- ટ્રેલ. development or exterior improvements approved under the standards of this section Madrone, Gary Oak, or Pacific Yew less than 6 inches in diameter, or other native trees less than 12 inches in diameter if the removal or pruning is in conjunction with
- $\frac{1}{2}$ Within the rail right-of-way and within 10 feet of the rail right-of-way:
- b.(2) Within the utility line corridor;
- C:(3) outfalls; Within the disturbance area for installation or replacement of stormwater
- d.(4) Within a major public trail;
- e-(5) Within a public viewing areas associated with viewpoints shown on Map 480-1;
- Within a resource enhancement area; or

- g- (8) Within the disturbance area associated with development in a City of Portland park.
- Trees that are over 6 inches in diameter that are removed must be replaced as shown in Table 475-2 and must meet the following:
- 4-a. Replacement vegetation must meet all of the following:
- $\frac{1}{2}$ Trees must be a minimum ½-inch caliper, bareroot or live stakes, unless they size or bareroot. All other species must be a minimum of four-inch pots or of the trees may be oak or madrone. Shrubs must be a minimum of one gallon are oak or madrone, which may be one gallon size. No more than ten percent equivalent;
- b. (3) The planting must occur within the River Overlay Zones. Trees must not be site, then the applicant must own the property or have an easement or deed that ensures the vegetated area will not be developed; and Plan, shown on Map 480-1. If the vegetation is not planted on the applicant's planted within a view corridor designated in the Scenic Resources Protection
- ← (4) The requirements of Section 33.248.090, Mitigation and Restoration Planting must be met; and
- Vegetation Frees planted to meet the landscaping requirements of 33.475.220 may be counted towards meeting the tree replacement standard.

| | Table 475 – 2 | |
|---|--|----------------------------------|
| Tree Replace | Tree Replacement in River Environmental Overlay Zone | tal Overlay Zone |
| Size of tree to be removed (inches Option A | Option A | Option B |
| in diameter) | (no. of natives trees to be | (combination of native trees and |
| | planted) | shrubs) |
| At least 1.5 and up to 6 | <u>1</u> | <u>Not applicable</u> |
| At least More than 6 and up to 12 | 2 | Not applicable |
| More than 12 and up to 20 | 3 | 1 tree and 3 shrubs |
| More than 20 and up to 25 | 5 | 3 tree and 6 shrubs |
| More than 25 and up to 30 | 7 | 5 tree and 9 shrubs |
| More than 30 | 10 | 7 tree and 12 shrubs |

G5 **Removal or Pruning of Vegetation Citywide**

33.430.080.C. Exemptions

- Removal or pruning of vegetation when no development or other activities subject to the following are met: development standards or review requirements of this chapter are proposed, if the
- All vegetation removal or pruning activities must be surrounded or protected to on the site. Permanent erosion control, such as replanting a Areas of bare soil must prevent erosion and sediment from leaving the site or negatively impacting resources <u> se replanted, must be installed</u>
- Ö The vegetation proposed for removal or pruning is one of the following
- (1) Trees or plants listed on the Nuisance Plant List;
- these portions is exempt only if all sections of wood more than 12 inches in immediate danger, as determined by the City Forester or an arborist. Removing Dead, dying, or dangerous trees or portions of trees when they pose an diameter either:
- they are cut; or Remain, or are placed, in the resource are of the same ownership on which
- Are removed, if the City Forester authorizes removal of diseased wood because it will threaten the health of other trees;
- (3) Non-native non-nuisance trees and plants;
- 4 Trees or tree limbs that are within 10 feet of an existing building and structures attached to buildings, such as decks, stairs and carports;
- (5) Within view corridors shown on Map 480-2, Ftrees that exceed the height maintain the view-corridor.; or restrictions of a City designated view corridor may be removed or pruned to
- (6) Within view corridors shown on Map 480-1, tree limbs may be pruned to maintain a view. Tree removal with the Scenic overlay zone is not exempt.

G7 – Examples of developed viewing areas

i, required review. enjoying the view. This is slightly larger than the proposed viewing area standard and would have It is approximately 590 square feet in size and accommodates two benches and a large area for This developed viewing area is located along the Greenway Trail just north of the Broadway Bridge



Viewpoint NW07

2 This viewing area is located along the Eastbank Esplanade just north of the Morrison Bridge. It is design would have to go through review. proposed standard; however, because it has impacts below the top-of-bank, that portion of the a single bench to be added. This viewing area would have met the size requirements for the approximately 275 square feet in size. There are no amenities although there is sufficient space for



Viewpoint SE03

G8 – Resource Enhancement Projects

33.475.440 Development Standards

- Standards for resource enhancement. The following standards apply to resource enhancement projects:
- mark of any river, stream, wetland or other water body; There must be no excavation or fill, or construction activity, below ordinary high water
- ? to run ratio equal to 1:5); to grading and the slope is no greater than 20 percent (20 percent slope represents a rise The riverbank may be re-graded if the slope after grading is shallower than the slope prior
- ω high water mark of any water body except as required surrounding outfalls Rock armoring must not be used on the surface between the top of bank and the ordinary
- 4 structures include bundles of plant materials or soil cells wrapped in biodegradable reduce localized erosion and improve bank stabilization. Examples of bioengineered The placement of large wood and bioengineered structures on the bank is allowed to
- 5 No structures are proposed landward of the top of bank except public trails that meet the egulations of 33.475.440.E or viewing areas that meet the regulations of 33.475.440.E <u>F</u>;
- 6 All nuisance plants listed on the Portland Plant List must be removed;
- 7. Tree removal is allowed as specified in Subsection J; and
- 7.8. Areas where ground disturbance has occurred must be planted to meet the landscaping planting standards of 33.475.220.

Commentary

33.475.4340.6 Standards for resource enhancement

enhancement project because a shallow bank provides better resource function than a steep bank. which has little to no habitat value. The standards also require that the bank be stabilized with vegetation rather than rock armoring, These standards are intended to ensure that the river bank is less steep than before the

as long as there is not a net increase in soil volume within the River Environmental overlay zone and quality of resources. Mature native vegetation in many cases provides high quality natural resource definition, must result in a net increase in functional value and an improvement in the quantity or the area disturbed is replanted with native vegetation. Resource enhancement projects, by For projects that occur landward of the top of bank, the standards allow disturbance of the ground function. The removal of native vegetation is limited so that staff can evaluate whether or not the emoval of vegetation will result in a net increase in functional value and an improvement in quality