



# Northwest Region, Area 5 Integrated Roadside Vegetation Management Plan

2018



**Washington State  
Department of Transportation**  
Maintenance Operations Division

## **Introduction**

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The Washington State Department of Transportation's (WSDOT) Northwest Region Area 5 manages vegetation within approximately 220 miles of state highway corridor in King and southwest Snohomish Counties. Crews in this maintenance area contend with some of the highest traffic volumes in the state. Major corridors in the area include portions of Interstates 5, 90 and 405. Other limited access corridors include State Routes 520, and 599/99. Roadsides along secondary highways within incorporated city limits are typically maintained by the cities. A map of all highways in the area is included as **Figure 1** on the following page.

The primary roadside vegetation management objectives are in relation to traffic safety and preservation of the highway infrastructure. Additionally, as a landowner WSDOT is required to control all listed noxious weeds that occur on the right-of-way by state law (RCW 17.10 and 15.15.010). It is important that WSDOT not only meet the legal requirements for weed control, but also consider the needs and concerns of adjacent landowners in this area.

In order to best manage roadsides with these priority objectives in mind, WSDOT practices an annually cycling process called Integrated Vegetation Management (IVM). Plans like this are maintained and updated annually for all areas of the state with an overall goal of establishing the most naturally self-sustaining roadsides vegetation possible. Adjustments are made year to year in each area plan, based on monitoring the previous years' accomplishments and results, available budget, and prioritization of other highway maintenance activities.

This plan serves as the guidance document for vegetation maintenance in Northwest Region Area 5 for the 2018 growing season. It identifies priority locations and prescribes treatments for accomplishing safety and weed control objectives through the use of a combination of seasonally-timed control measures. Each year's actions are designed as part of a coordinated multi-year strategy to minimize roadside maintenance requirements wherever possible. This plan also accounts for specific locations where maintenance tactics are adjusted due to environmental issues, neighboring properties, local partnerships, or restoration work done through WSDOT design and construction.

As of the 2018 season, the information contained in this plan document can be geographically referenced by crews in the field using iPads and the Highway Activity Tracking System (HATS). Accomplishments and results will also be tracked geographically through this new system. This development in WSDOT maintenance management will greatly improve the agency's success in properly executing planned actions, monitoring and documenting results of treatments, and in measuring cost and results over time.

WSDOT welcomes input from local public and private entities on its weed control and other vegetation management activities. Wherever appropriate the agency is looking for opportunities to plan and cooperate with others in managing the roadside. Please direct any questions, comments or suggestions to the Northwest Region Area 5 Superintendent – Jim McBride, Assistant Superintendent – Ed Simpson, or the State's Roadside Asset Manager – Ray Willard.

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## ***Northwest Region Area 5 IVM Work Plan – 2018***

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The section outlines the overall approach and geographic distribution of roadside vegetation management requirements throughout the maintenance area in 2018. Information is organized in relation to four groups of activities defined in the WSDOT Maintenance Accountability Program (MAP) for the performance of roadside vegetation maintenance activities: **Control of Vegetative Obstructions, Noxious Weed Control, Nuisance Vegetation Control, and Landscape Maintenance**. Specific locations as noted in this work plan are also mapped in the Highway Activity Tracking System (HATS) for reference by maintenance in the field.

### **Control of Vegetative Obstructions – 3A4**

The work of this group of maintenance activities relates to the safety and operational requirements of the highway. These items are considered first priority in terms of the overall roadside maintenance needs. Vegetation management objectives and work activities in this category fall into four groups – **Pavement Edge Maintenance/Zone 1, One Pass Mowing/Zone 2, Tree and Brush Control/Zone 2 and 3, and Hazard Tree Removal/Zone 3**.

#### **Pavement Edge Maintenance/Zone 1**

**Work Operation: 1615**

**HATS Form: Pesticide Application**

**HATS Map Layer: Reference lines – Roadside Features/Spray Zone 1 Reference**

This work includes the application of herbicides to road shoulders where necessary throughout the area. The objective of these applications in designated locations is preserving of a band of gravel shoulder adjacent to the pavement that is free of vegetation. This treatment is necessary in most locations to provide visibility and maintainability of roadside hardware and guideposts, allow room for vehicles to safely pull off on shoulders, facilitate stormwater drainage, and/or provide added visibility of wildlife approaching the highway.

#### **Total Units of Planned Treatment**

- Apply approximately **67 acres** of herbicide treatment to road shoulders throughout the area.

#### **Locations of Planned Treatments**

- For the 2018 season treatments will be applied only to the base of guardrail and cable rail throughout the area. This is being done as a temporary cost savings measure.
- Planned treatment sites are mapped in HATS layer – **Spray Zone 1 Reference**.
- Locations where no bare ground treatment will be applied include:
  - Locations along secondary roads where there neighboring property owners have agreed to maintain the roadside
  - I-90, MP 16 to 19 – Wellhead protection areas
  - All rights of way through incorporated cities

#### **Treatment Methods**

- Herbicides are applied using a truck mounted power spray system calibrated to deliver a 4-foot band of spray mixture adjacent to the paved shoulder. The resulting width of treated shoulder may be wider than 4 feet in areas with steeper shoulder slope.
- In locations with cable rail – If the rail is less than 8 ft. from the edge of pavement, the bare ground treatment will extend from the pavement edge to the back side of the cable rail. In locations where the rail is greater than 8 ft. from the edge of pavement, treatment will be applied in 4 ft. band directly under the rail.

- In locations with guardrail, treatment band width will be extended to the to the back side of hardware.
- All noted locations will be treated in spring with the following mixtures of herbicides and adjuvants:

Blend #6

- Method 240 @ 12.7 oz/acre
- Escort XP @ 1.5 oz/acre
- Rodeo @ 51oz/acre

Adjuvants

- Crosshair @ 1 oz./acre
- LI 700 @ 11 oz/acre

**Safety Mowing/Zone 2**

**Work Operation: 1625**

**HATS Form: Mowing Zone 2**

**HATS Map Layer: Reference lines – Roadside Features/Mowing Zone 2 Reference**

This work includes routine mechanical cutting of all vegetation on the road shoulder in a band width immediately adjacent to pavement. Mowing is necessary in areas where taller growing grasses or other vegetation are present and must be annually or semi-annually cut back for visibility and maintenance of roadside hardware and delineators, to maintenance traffic sight distance at curves and intersections, and for improved visibility of wildlife approaching the highway. Mowing height for these operations is typically 6 to 8 inches above the ground.

Total Units of Planned Mowing

- Approximately **200 acres** of Zone 2 safety mowing will be conducted throughout the area.

Locations of Planned Mowing

- Planned Zone 2 mowing locations are mapped in HATS reference layer - **Mowing Zone 2 Reference**
- All roadsides with vegetation along the edge of pavement will be mowed out to specified widths once per year in late spring/early summer
- Prioritized for annual safety mowing including:
  - SR 202 Ames Lake Rd, 308<sup>th</sup> intersection, Mills Farm. NE 55<sup>th</sup>. Spring Glen area MP 23. Tolt Hill Rd intersection Fish Hatchery Rd both ends,
  - SR 203, SE 3<sup>rd</sup>. NE 24<sup>th</sup>, Horse Crossing at first bridge, NE 11<sup>th</sup>. S end of Tolt River Bridge.
  - I-405/NE 8<sup>th</sup> interchange for sight distance issues and concerns with transients
  - I-90/Eastgate interchange for sight distance issues and concerns with transients

Treatment Methods

- Mowing width varies between 5 and 25 feet as specified on the HATS maps.
- Mowing will be done with multiple types of tractor mounted mowers including a 3-deck, 25 ft. total width mower, side arm mounted flail and rotary mowers, and orchard mowers.

**Tree and Brush Control/Zone 2 and 3**

**Work Operations: 1622, 1625, 1626**

**HATS Forms: Tree/Brush Control – Spray, Trimming Mechanical, Trimming Manual, and Mowing**

**HATS Map Layer: None**

This includes safety and traffic operations related work in Zone 2, such as periodic side-trimming or removal of brush and trees or tree branches encroaching on or

overhanging traffic operations, and impacting sign visibility. Also included is work in Zone 2 and 3 when selectively controlling emergent early succession tree species – to prevent them from growing into mature hazard trees within striking distance of the road. Removal of mature-sized dead, diseased, dying or structurally defective and hazardous trees is also included in this activity group.

#### Total Units of Planned Treatment

- Approximately **150 acres** will be mechanically trimmed throughout the area.
- Approximately **25 acres** will be treated with herbicides.
- Approximately **15 acres** will be trimmed with hand tools

#### Locations of Planned Treatments

##### **415530**

- I-5 – MP 180.19 – 180.59, small trees
- I-5 – swamp creek site distance issues
- I-5, NB/SB, MP 178-172, mow out ditch lines where applicable
- I-5, MP 177.6, remove vegetation hanging down from wall along on ramp to SB
- I-5 off ramp to WB SR 104, remove vegetation hanging down from wall
- I-5/SR 104, NE 175<sup>th</sup>, NE 145<sup>th</sup>, NE 130<sup>th</sup>, Northgate Way, mow INT
- SR 104/HWY, 5<sup>th</sup> Ave, mow INT(west side of 5<sup>th</sup> only)
- SR 104, MP 24.70-24.10 mow along Edmonds Marsh edge
- SR 405, 70<sup>th</sup> and 85<sup>th</sup> street structures, cleanup shoulders and ditch lines of brush, scotch broom, and small trees.
- SR 405, 124<sup>th</sup> structure, mow ditch lines of grass, blackberries and scotch broom, cut blackberries back on overpass away from guardrail, cut brush and small trees back from guardrail NB ramps.
- SR 405, Mow brush back from on top of and behind rail, mp. 15 to 22.
- SR 405, Mow blackberries from on top of and behind rail, 195<sup>th</sup>/beardslee structure.
- SR 405, south bound from 195<sup>th</sup> ramp, mow back brush from side walk to the metro bus stop.
- SR 405, trim trees back from right side of ramp to 124<sup>th</sup> from SB 405.
- SR 405, limb up trees on the ramp from 195<sup>th</sup> to SB and 195<sup>th</sup> to NB, right sides of ramps.
- I-405 and 527 interchange milepost 26
- I-5 and 196<sup>th</sup> interchange milepost 180.5
- 522 – ramps and interchanges
- 522 – EB 522, just after 195<sup>th</sup>, hillside leading down to the ditch line, access.
- 522 – WB, just above the wall after the college, access.
- 522 – WB, just after 195<sup>th</sup> towards 202 off ramp, site distance.
- 202 – site distance problems just north of 124<sup>th</sup>
- 202 – multiple areas where brush/blackberries is encroaching on shoulder

##### **415520**

- I-5 – Columbian interchange
- I-5 – Corson/Michigan interchange area
- I-5 – 80<sup>th</sup>/85<sup>th</sup> interchange area
- I-90 – 72<sup>nd</sup> and 22<sup>nd</sup> vicinity
- SR900 – WB

##### **415510**

- SR 18 - EB MP 21 to MP 25, 2 or 3 pass brushing with Side arm
- SR 18 - WB MP 25 to MP 23, 2 or 3 pass brushing with side arm
- SR 18 – MP 20 to MP16.88 to remove encroaching brush and improve sight distance
- I-90 - MP 19 to MP20 remove trees encroaching clear zone

- I-90 MP 31 to MP 33 improve sight distance and to help control the spread of Scotch broom east into Area 1
- SR202 - MP22.5 and 24.3 remove encroaching trees, brush and some canopy
- SR202 - MP 12.5 area remove encroaching trees and brush
- I405/SR 520 interchange to remove encroaching trees and blackberries to improve sight distance issues and drainage
- I90/SR 900 interchange to remove encroaching trees and brush to improve sight distance problems

#### Treatment Methods

- Tractors with side-arm mounted mowing heads, skid-steer with brush head, man-lift, hand held saws, pole saws, and chippers.
- Herbicides will also be used to trim and remove encroaching tree seedlings and brush in the late summer/fall. Products used:
  - Garlon 3A @ 128 ozl/acre
  - SylTac @ 8 ozl/acre

### **Hazard Tree Removal/Zone 3**

**Work Operation: 1628**

**HATS Forms: Hazard Tree Removal – Individual Tree Removal, Stand Removal, and Cleanup Fallen Trees**

**HATS Map Layer: None**

Trees within and adjacent to the right of way are routinely monitored by maintenance staff for potential risk to the highway and/or neighboring structures. Individual and stands of trees identified, as a potential imminent threat will be evaluated removed as soon as possible where needed.

#### Total Units of Planned Treatment

- There are typically between **300 and 400** mature hazard trees removed throughout the area each year.

#### Locations of Planned Treatments

- Crews are continuously looking for trees that exhibit structural defects and could strike the road or neighboring property if they come down. Any hazard trees identified at any time are removed as soon as possible.
- If trees growing outside WSDOT right of way are hazards, crews work with the neighboring property owner to negotiate removal.

#### Treatment Methods

- WSDOT crews typically fall hazard trees as needed. Occasionally for more challenging work crews contract with a professional Arborist.
- Hand cutting with chainsaws, and high lift equipment as needed
- Material is left to decompose on site where possible

### **Noxious Weed Control – 3A2**

This group of activities includes control of non-native invasive weed species as defined by state law and individual county designation. This group of activities is second priority vegetation management work after safety related objectives have been addressed. While all Class A, B, and C noxious weed species as listed in RCW 17.10 are considered potential targets for WSDOT noxious weed control, the agency is currently not funded to achieve 100% control of all noxious weeds. Therefore, the top priorities for weed control are focused on locations and species that are more limited in distribution on the right of way – where there is a chance of successful eradication. To prioritize control of species that are already widespread in the area, WSDOT works with the local county noxious weed boards and coordinators, to annually review and determine which species and locations will be specifically targeted.

To prioritize, plan, and track noxious weed control, WSDOT maps and monitors weed infestations in three categories: **Priority**, **Planned Treatment**, and **General Reference**. **Priority** locations are where Class A noxious weed species exist on the right of way, and complete eradication is required by state law. **Planned Treatment** sites are locations where there are new, and/or limited distribution infestations of Class B and C noxious weed exist, and eradication is possible. **General Reference** sites are recorded for reference only to document the presence of noxious weed species which are more commonly occurring in the local area.

**Noxious Weed Control**

**Work Operations: 1616, 1618, 1641, 1699**

**HATS Forms: Pesticide Application (for spray applications,) and three sub-forms under Noxious Weed Control General– Manual/Mechanical, Seed/Fertilize/Mulch, and Biological**

**HATS Map Layer: Reference Points – Roadside Features/Noxious Weed Control Priority, Noxious Weed Control Planned Treatment, and Noxious Weed Control General Reference**

Operations are prescribed throughout the season to prevent the spread of any legally designated noxious weed species, and to reduce or eliminate populations wherever possible. Integrated treatment plans combine field monitoring and an integral mixture of seasonally timed control methods with proven effectiveness on designated species. Successful plans are consistently implemented over a series of years and annually adjusted as necessary based on field observations. Care must be taken in all cases to avoid damage to surrounding desirable/native vegetation.

**Priority Class A Noxious Weeds on WSDOT Right of Way in Northwest Region Area 5:**

Species and Locations

- Giant hogweed – I-5 at Mercer next to Express Lanes
- Spanish broom – I-5 MP169.3 south side bridge abutment
- Garlic mustard – I-5 NB MP179.2 on the outside of the 220<sup>th</sup> St. SW offramp

Total Units of Planned Treatment

- Less than one acre total treatment including all three sites.

Treatment Methods

- Giant hogweed – Individual plants will be cut at the base of stalk and stump treated with Garlon 4, after flower buds form but prior to seed set
- Spanish broom – Site has been cut and treated by WSDOT and the County Weed Board. Continue to monitor for seedlings each spring and fall.
- Garlic mustard – Treat with Perspective @ 3 ozl/acre in spring, monitor for regrowth in the fall.

**Target Noxious Weeds on WSDOT Right of Way in Northwest Region Area 5:**

| <b><i>Common Name/Botanical Name</i></b>      | <b><i>Treatment Notes</i></b>   |
|---|---|
| Absinth wormwood/ <i>Artemisia absinthium</i> | King County will send notifications if found and any reoccurring infestation sites will be mapped |
| Bull thistle/ <i>Cirsium vulgare</i>          | Control small patches where visible in conjunction with seasonal patrols                          |
| Butterfly bush/ <i>Buddleia davidii</i>       | Control where visible, priority target sites mapped on I-5 in Tukwilla                            |
| Canada thistle/ <i>Cirsium arvense</i>        | Control small patches where visible in conjunction with seasonal patrols                          |

|  |  |
|--|--|
| Common reed/ <i>Phragmites australis</i>     | Target sites mapped and treated in the fall  |
| Dalmatian toadflax/ <i>Linaria dalmatica</i> | Target sites mapped and treated in the spring and fall   |
| European Hawkweed/ <i>Hieracium sabaudum</i> | Target sites mapped and treated in the late summer   |
| Hawkweed sp./ <i>Hieracium sp.</i>           | Control where visible in conjunction with seasonal patrols   |
| Knapweed sp./ <i>Centaurea sp.</i>           | Control where visible in conjunction with seasonal patrols, priority target sites are mapped and treated in the spring   |
| Knotweed sp./ <i>Polygonum sp.</i>           | Target sites will be mapped and treated after flower stage in late summer  |
| Poison hemlock/ <i>Conium maculatum</i>      | Control where visible in conjunction with seasonal patrols, priority target sites are mapped and treated in the spring   |
| Purple loosestrife/ <i>Lythrum salicaria</i> | Target sites will be mapped and treated at early flower stage in summer  |
| Ragwort tansy/ <i>Senecio jacobaea</i>       | Occurs sporadically throughout the area. All visible plants are sprayed in the spring prior to bud/seed set, any remaining plants visible in flower are hand pulled with seed heads removed, bagged, and disposed of |
| Rush skeletonweed/ <i>Chondrilla juncea</i>  | Target sites mapped and treated in the spring  |
| Scotch broom/ <i>Cytisus scoparius</i>       | Controlled in conjunction with seasonal weed patrols, when present in small isolated patches, and any visible plants along I-90 east of Issaquah   |
| Sulfur cinquefoil/ <i>Potentilla recta</i>   | Target sites will be mapped and treated in the spring  |
| Viper's bugloss/ <i>Echium vulgare</i>       | King County will send notifications if found and any reoccurring infestation sites will be mapped  |

#### Total Units of Planned Treatment

- Approximately **200 acres** will be treated with a mixture of herbicide treatments and other methods
- Approximately **30 acres** will be mowed or pulled by hand

#### Locations of Planned Treatments

- Treatment locations are described in the table above

#### Treatment Methods and Timing

- Treatments are carried out as described in the table above
- Herbicide mixtures used include:

##### Mix 1

- Opensite @ 3 ozl/acre
- Syltac @ 8 ozl/acre

##### Mix 2

- Capstone @ 128 ozl/acre
- Syltac @ 8 ozl/acre

### **Nuisance Vegetation Control – 3A3**

Nuisance vegetation control takes place only in a select set of carefully prioritized locations along the wider areas of right of way throughout the state. These locations are delineated on maps in HATS as polygon outlines where right of way is wide enough for Zone 3 to exist. Locations are prioritized to receive treatments where there is heightened local interest in a more controlled visual appearance and highly maintained condition. Typical locations include: wider areas along limited access freeways in urban and suburban areas, freeway interchanges for local urban centers, environmentally sensitive areas, and areas where neighbors are willing to partner with WSDOT on management efforts. Because nuisance

weed control activities are not related to safety or legal requirements, and are primarily undertaken to improve the visual appearance of the roadside, they are considered the lowest priority vegetation management needs.

For all areas designated to receive Nuisance Vegetation Control, multi-year treatment plans have been developed. The actions contained in these plans will be executed and tracked in relation to specific Zone 3 polygons for **Nuisance Vegetation Control Zone 3**, referenced on HATS maps and described below.

### **Nuisance Vegetation Control Zone 3**

**Work Operations: 1611, 1612, 1641, 1699**

**HATS Forms: Pesticide Application (for all spray applications), and 3 sub-forms under Nuisance Veg. Control General – Manual/Mechanical, Biological, and Seed/Fertilize/Mulch**

### **HATS Map Layer: Reference polygons – Zone 3 Nuisance Reference**

Maintenance activities in each identified location are planned and tracked as multi-year treatment strategies utilizing monitoring and the most effective combination of control methods – with a goal of establishing desirable vegetation that requires only minimal maintenance. Undesirable species are identified and specifically targeted while care is taken to avoid damage to surrounding desirable/native vegetation. In some cases, soil enhancements may be used as well as seeding or planting of beneficial competition species. Successful plans are consistently implemented over a series of years and annually adjusted as necessary based on field observations.

#### Total Units of Planned Treatment

- Approximately **30 acres** will be treated with herbicides for nuisance weed control.
- Approximately **100 acres** will be mowed for nuisance

#### Locations of Planned Treatments

- Reference HATS layer – **Nuisance Vegetation Management.**

#### Treatment Methods and Timing

- Multi-year IVM treatment plans will be developed for the following Zone 3 areas throughout the area:
  - I-5 milepost 171-183 right sides, left sides, median, and ramps.
  - I-405 milepost 30-15 staying out of the contract zone, right sides, left sides, median, and ramps right sides, left sides, median, and ramps.
  - SR-522 milepost 10.4-13 right sides, left sides, median, and ramps.
  - SR-104 milepost 24.57-26 right sides, left sides, and ramps, islands.
  - SR-104 milepost 27-29 right sides, left sides, and ramps, islands
  - SR 104, MP 25.47, Quadrant on west side of 5<sup>th</sup> Ave
  - SR 104/HWY 99 INT, MP 27.92, Quadrants surrounding this INT
  - SR 104/I-5 INT, Quadrants surrounding this INT
  - I-5/NE 175<sup>th</sup> INT
  - I-5/NE 145<sup>th</sup> INT
  - I-5/NE 130<sup>th</sup> INT
  - I-5/Northgate Way INT

### **Landscape Maintenance – 3A5**

Landscape maintenance work includes all vegetation management activities that take place on roadsides within areas designated as formal urban planting, where the intention is to enhance the appearance of freeways through urban centers. For these highly developed roadsides the goal is to maintain healthy plantings in all three zones and to control all weeds. Planted vegetation is intended to be preserved and enhanced over time, through pruning, hedging, trimming, and fertilization where necessary.

## Landscape

**Work Operations: 1513, 1516, 1518, 1525, 1541, 1552, 1561, 1599**

**HATS Forms: Pesticide Application (for all spray applications), and six sub-forms under Landscape – Weed Control/Manual, Weed Control/Mechanical, Pruning/Hedging/Edging, Seed/Mulch/Plant/Fertilize, Mowing Lawn, Irrigation System Operations & Maintenance, and Other Maintenance as Approved by Superintendent**

Landscape maintenance operations are only conducted in a limited number of locations as described below and mapped in HATS. Maintenance activities in each identified location are planned based on a multi-year treatment strategy. Treatment decision are based on monitoring and the proven most effective combination of maintenance actions, to keep plantings (and lawns if present) looking healthy and trimmed throughout the year.

### Total Units of Planned Treatment

- There are approximately **50 acres** of formally landscaped roadside in this area.
- An additional **100 acres** of formally landscaped roadside is maintained through agreement with the cities of Seattle and Mercer Island.

### Locations of Planned Treatments

- Reference HATS layer – **Landscape Maintenance**.

### Treatment Methods and Timing

#### **415510**

- I-405 – NE 8<sup>th</sup> interchange in downtown Bellevue – Mow one or two times per year and spot spray for weed control
- 520 landscape areas – Need to add polygons

#### **415530**

- No landscaped areas in this section.

#### **415520**

- I-90 – Landscaped right of way outside of limited access control areas in Seattle and on Mercer Island, including landscaping on structures and along bike/pedestrian paths are maintained by agreement with crews from the Cities. WSDOT reimburses City crews from this work.
- All other landscape areas along I-5 and I-90 in this section are maintained by WSDOT crews and described on the following tables:

| SEATTLE TO MERCER ISLAND   | S/F      | ACRES |
|--|----------|-------|
|  |          |       |
| NUISANCE VEGT. JERSER BARRIER 1511<br>MP 2.0 TO 8.0  | 1045440  | 24    |
| 1 64 Ozl. Ranger Pro, 16 Ozl Insiste 90,<br>3 Ozd Landmark XP, 3 Ozd Opensight                                 |          |       |
|  |          |       |
| NOXIOUS WEEDS MP 7.89 -7.9 1518<br>1518/ 64 Ozl Garlan 3A,<br>16 Ozl. MSO Super Spread,<br>12 Ozl. Blazon-Blue | 2178     | 0.05  |
|  |          |       |
| MOW 2 TIMES HOMELESS 1512/1612   |          |       |
| 4TH TOUCHDOWN  | 21780    | 0.5   |
| DEAN STREET DEAD END   | 238708.8 | 5.48  |
| DEARBORN LOOP  | 71438.4  | 164   |
| RAINIER LOOP   | 91911.6  | 2.11  |
| WALL 18  | 56628    | 1.3   |
| SB RAINIER POPULAR ST AREA   | 50094    | 1.15  |
| WB & DOC OFFICE  | 12632.4  | 0.29  |
| WB & EXPRESS LANES   | 25700.4  | 0.59  |
|  | 0        | 0     |
|  |          |       |
| TOTAL /ACRE  | 568893.6 | 13.06 |
|  |          |       |
| MOW ONES/YEAR PREVENT FIRE   |          |       |
| 72 ST AND 22ND ST 1612   | 47916    | 1.1   |

| SEATTLE/MERCER ISLAND                   |         |      |
|---|---------|------|
|   |         |      |
| LANDSCAPE MAINT. PRUNING AS NEEDED 1525 |         |      |
| 12TH AVE/SB RAINIER EXIT L/S            | 54450   | 125  |
| RAINIER EXIT LEFT SIDE                  | 27878.4 | 0.64 |
| EB 1-90 & SB Rainier on Ramp            | 19166.4 | 0.44 |
| NB RAINIER TO EB LEFT SIDE              | 29620.8 | 0.68 |
| NB RAINIER TO EB RIGHT SIDE             | 48787.2 | 1.12 |
| EB/WMW RIGHT SIDE                       | 30927.6 | 0.71 |
| EB/EMW EXIT RIGHT SIDE                  | 21780   | 0.5  |
| EB/WMW L/S & WB ON RAMP                 | 37026   | 0.85 |
| EB 77TH EXIT RIGHT SIDE                 | 30927.6 | 0.71 |
| EB 77TH TO ICW EXIT R/S                 | 32670   | 0.75 |

|                            |          |       |
|----------------------------|----------|-------|
| EB ICW EXIT TO ICW ON RAMP | 24393.6  | 0.56  |
| EBICW ON RAMP TO EMWW      | 108900   | 2.5   |
| TOTAL/ACRE                 | 466527.6 | 10.71 |
| PRUNE AS NEEDED 1525       |          |       |
| WB 1-90 LANSCAPE MAINT     |          |       |
| EMW TO ICW                 | 82764    | 1.9   |
| ICW TO MILID               | 32670    | 0.75  |
| WB & WMWAY ON RAMP         | 12196.8  | 0.28  |
| POPULAR ST AREA            | 50094    | 1.15  |
| TOTAL/ACRE                 | 177724.8 | 4.08  |
| PRUNE AS NEEDED 1525       |          |       |
| EXPRES LANES AT M. ISLAND  |          | 2.08  |
| FROM MIL TO EMW            | 90604.8  | 2.08  |
|                            | 0        |       |
| TOTAL /ACRES               | 90604.8  | 4.16  |
| GRANT TOTAL ACRES          |          | 18.95 |