

Asset Program

- Where is your Pavement & Asset Duties Managed?
- Program Concept
- Program Needs
- Program Assessment Criteria
- Old Processes/New Ideas
- What we are Learning

Staff

- Road Operations
- Group Structure
- Skill Set & Experience
- Additional Resources Available



Support Services

- Technical Support
- Program Development
- Maintenance Improvement Projects
- Application Process Evaluations
- Project Management
- Asset Management
- Documentation & Reporting
- Performance Monitoring
- Technology Development

8 Elements

- 1. Inventory
- 2. Level of Service (LOS)
- 3.Condition Assessment
- 4. Usage Data
- 5. Cost Data
- 6. Replacement Model
- 7. Risk Assessment
- **8.Performance Measures**

Asset Program Needs & Goals

- Technical Data & Operational Needs
- Develop Mechanism to Collect Information
- Organize Data and Define Condition Values
- Report/Generate Work Needs
- Communicate Work Flow
- Report/Complete Work Function
- Evaluate Overall Asset Condition

Processes Development

- Inventory
- Condition Assessment (0-9 Scale)
- Develop Work Orders
- Track Work Activities
- Develop Maintenance & Repair Strategies
- Prioritize Work (0-9 Scale)
- Determine Level of Service Goals
- Document Processes
- Report Asset & System Condition

Asset Category Types

- Pavement
- Drainage
- Roadside Shoulders
- ROW Structures
- Traffic Barriers
- Sidewalks & Ramps
- Facilities
- But What about;
 - Overhead & Roadside Vegetation
 - Mowing & Sweeping

Gravel Roads

Program Background

- Pavement Concepts used to develop criteria for other asset categories
 - To be based on Current PC Work Function & Work Standards
 - Evaluate and Quantify Distresses by Severity, Extent
 - Function and Condition Value Assigned to Trigger Work Order
- Asset Categories that we are now working on;
 - Drainage Infrastructure
 - ROW Structures
 - Traffic Barriers
 - Roadside Shoulders
 - Integrated Vegetation Management
 - Sidewalk & ADA Infrastructure
 - Mowing and Sweeping Programs

Rating Criteria

- Scale that can be applied to all asset categories
- Scale that defines defect severity and extent.
- Ability to assign appropriate
 Function/Task to the asset

Align w/Standards



Pierce County
Public Works and Utilities
Transportation Services
Road Operations Division

Maintenance Standard

Page 1 of 2

Effective Date

Revision Date

Function: Rotary Brush Cutter Function Code: 71B

Function Description

urbose:

To control brush, small trees, and other undesirable vegetation along road shoulders, banks, slopes, ditches, and othe portions of the road right of way.

rocedure

If work is being conducted in or near a wet area, an approved Work Order and/or HPA must be on site. Install BMPs as needed or dictated by permit or work order. All obstacles shall be marked, and avoided including, but not limited to: utility poles and pedestals, utility support wires, rocks, roadside debris, stumps, and changes in surface grades hidden by thick vegetation. A tractor mounted rotary or flail type mowing head shall be used to cut and mulch road side vegetation. Vegetation will be cut no loser than eight inches to the right of way surface. Care shall be taken to avoid depositing loose mulch into drainage courses. Any road side litter or accumulations of mulch that require removal shall be so noted and bitmed into the Supposition with the daily time second.

Safety:

Required PPE: Sturdy boots, shirt with sleeves, long pants, hardhat, class 2 garment

commended: Gloves, approved eye protection, hearing protection

Establish traffic control as necessary.

The brush cutter operator shall Inspect work area prior to cutting to locate potential obstacles

Obstacles shall be marked and avoided

Cut no closer than eight (8) inches to the right of way surface Be aware of ground personnel, pedestrians, and vehicle traffic

De aware of ground personner, pedestrians, and vertice traffic Clear area and honk your horn twice prior to backing up, use a ground guide if available

Guard against flying objects when working in close proximity to vehicle traffic or pedestrians

When working in urban or residential areas or in close proximity to structures along the traveled way only a flail head

Quality:

The cut area will be even, uniform, and cut no lower than eight inches from the right of way surface. Utilities structures will be exposed by manual cutting. All shredded or splintered stalks or branches left will be hand cut for vegetation health and aesthetic value. Accumulations of mulch will be cleared from drainage courses. All work shall be recorded on the appropriate Regional Road Maintenance Guideline checklist.

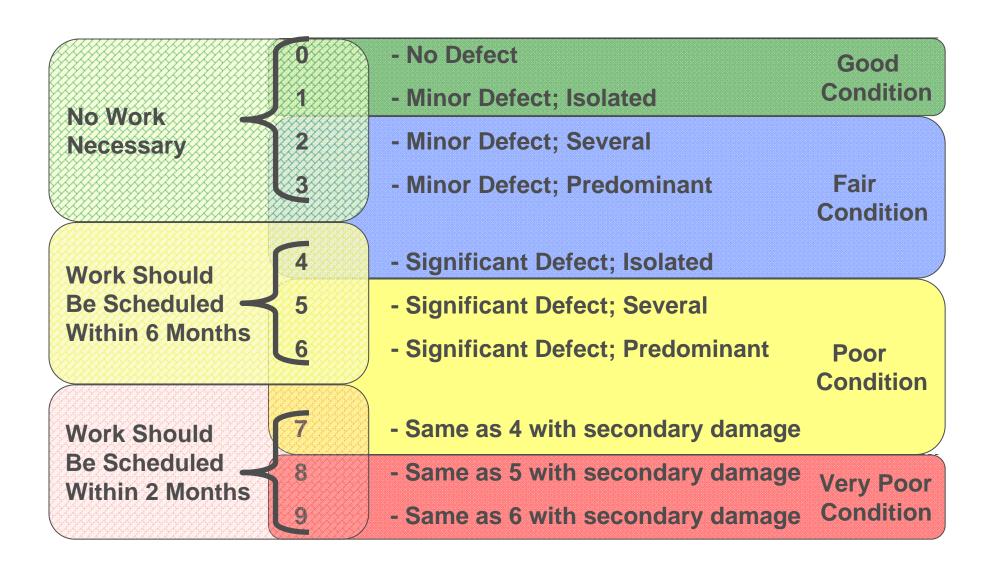
Inspection

As soon as is practical upon completion of work, the site shall be reviewed by a Lead Worker or Supervisor. The inspection shall ensure that the scope of work completed meets service level expectations and environmental

Resource Requirements

Labor			Equipment			Materials		
Job Class Code	Job Class Description	Hours / work Unit	Equip	Equip Description	Hours per Work Unit	Material Code	Material Description	Quantity per Work Unit
9018	FS	.4370	005H	Crew Cab, Pick up	.5270	N/A	N/A	N/A
9158	HEO	5.9300	020E	Brush Cutter	6.0800	100000		F-00058
9154	MT	1.4800				I		
9151	MW	.0710		l	1			
2.0		Note - T	raffic Co	ontrol For This Function	on Charged	To: 71T		120

Condition Assessment Scale

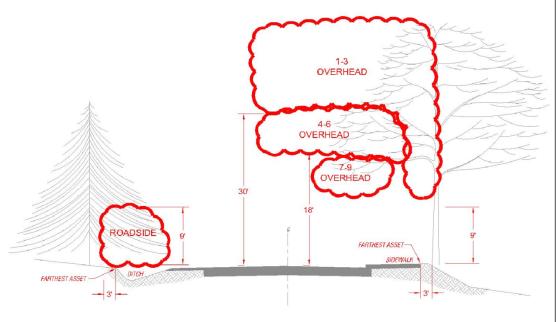


2. Roadside and Overhead Vegetation

The roadside and overhead vegetation is located from the area along the side of the road and above the road, within the historic maintain corridor. Roadside vegetation can be trees planted along the roadway in pedestrian facilities or brush and trees located along the roadway, shoulder or ditch.

Rating of roadside and overhead vegetation

	0 – As-built condition			
	1 - Isolated (1 within a segment)			
LOW	2 - Several (more than 1 or 2)			
(Do Nothing)	3 - Predominate (multiple locations)			
	4 - Isolated (1 within a segment)			
MEDIUM	5 - Several (more than 1 or 2)			
(Do before next Assessment) 6 - Predominate (multiple locations)				
	7 – Is a 4 but impacts another asset			
HIGH	8 – Is a 5 but impacts another asset			
(Do within 2 months)	9 – Is a 6 but impacts another asset			



Roadside and Overhead Vegetation

Pierce County Public Works

Condition Assessment





Up Next

- Examples of Asset Concept Implementation
 - Drainage
 - NPDES Requirements
 - Data Collection
 - Mapping of Assets

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Questions?

