

Main Topics

•Importing Data

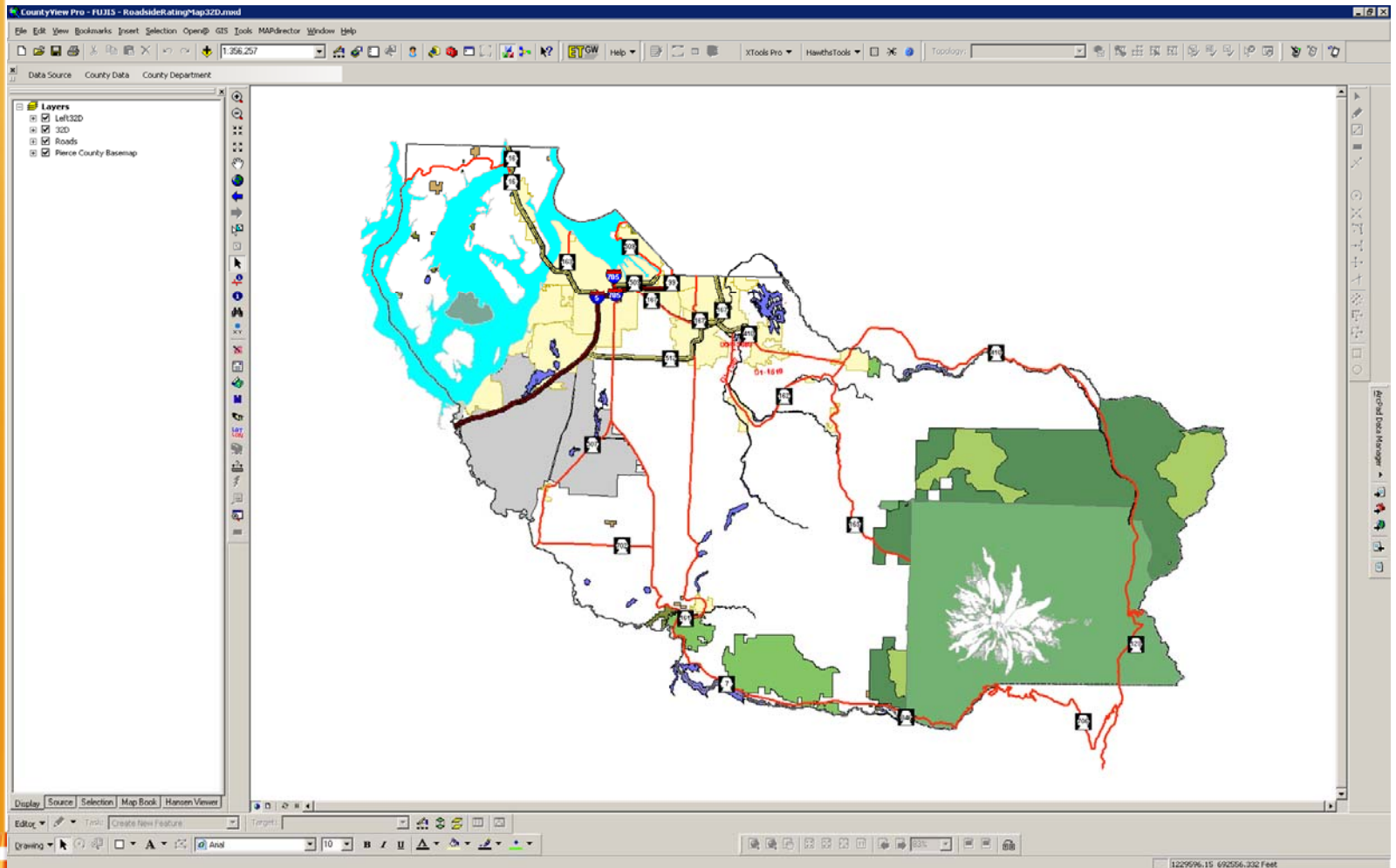
- Bring data into applications
 - ArcGIS
 - Maintenance Connections (MC)

•Using the Data

- Maps
- Lists
- Work Orders (WO's)
- ^ Help plan and schedule the field work



ArcGIS - Mapping



ArcGIS - Mapping

- Pierce County uses a product from ESRI called ArcGIS (CountyView in house)
- Other options
 - **MapInfo**
 - **Autodesk**
 - **Bentley Systems**
- Search GIS software for more



ArcGIS - Mapping

- **What's Next?**

- We have already decided what assets, locations (GPS), attributes of the assets, and conditions.
- Everything we have collected is now in a file geodatabase.
- Time to display on maps.
 - You can display any of the attribute and/or condition information you have gathered on a map.



ArcGIS - Mapping

We are going to use some data from our 'Roadside' asset assessment.

Roadside Vegetation Function Codes:

32D – Mowing Shoulders

71B – Roadside Vegetation Maint / Mechanical

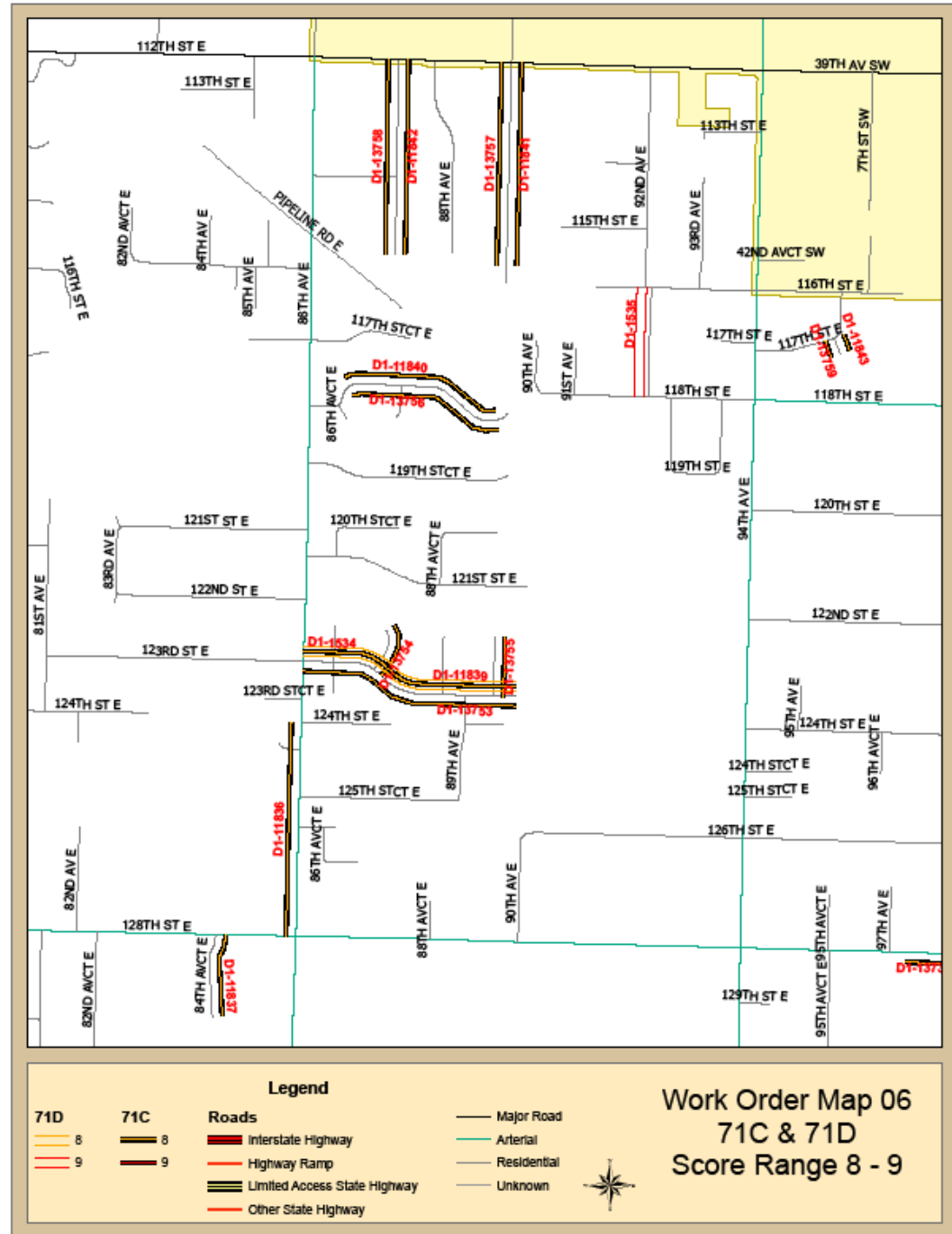
71SD – Site Specific Vegetation Control

Overhead Vegetation Function Code:

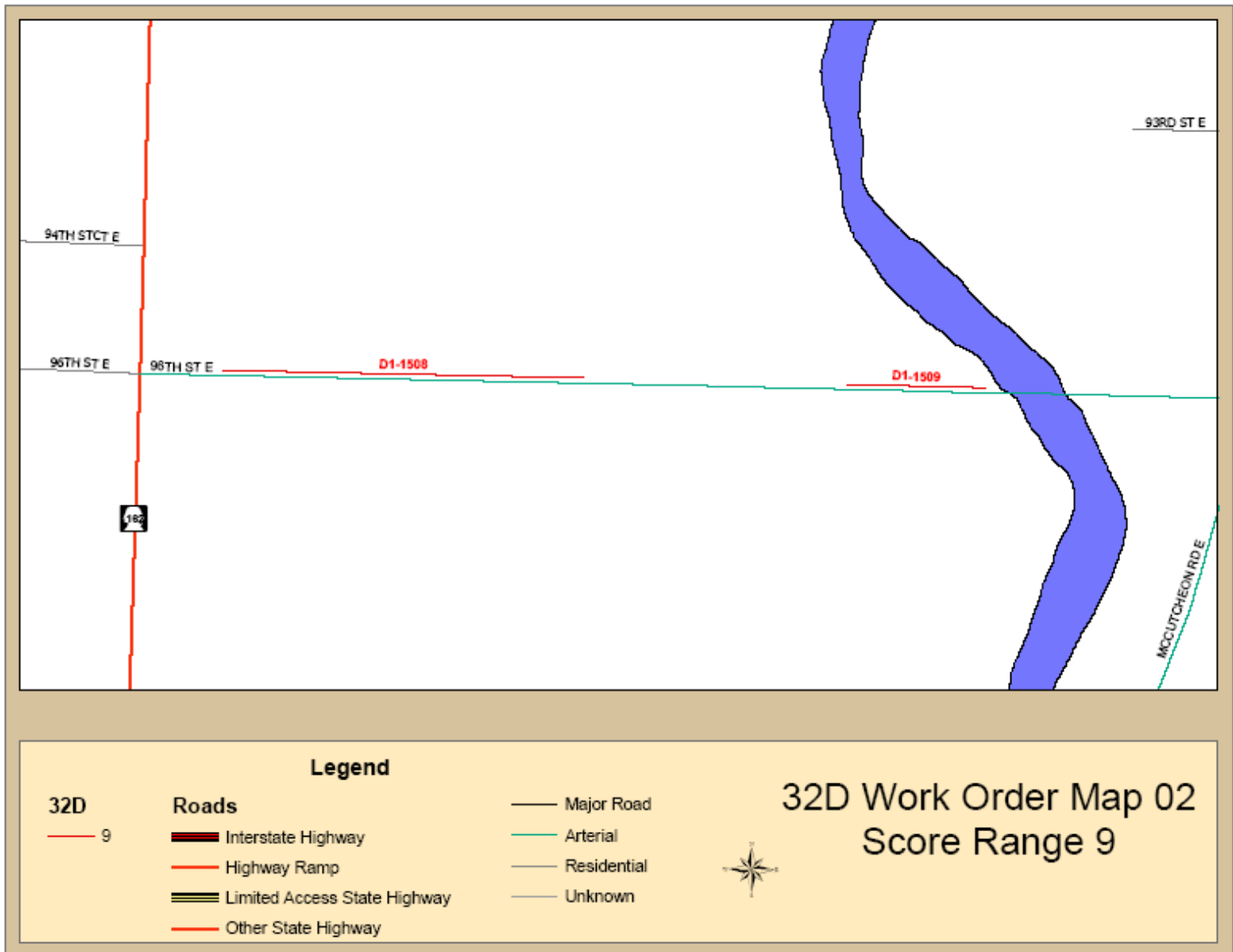
71C – Overhead Vegetation Maintenance

71D – Brushing & Chipping / Tree Removal





Work Order Map 06
71C & 71D
Score Range 8 - 9



Maintenance Connections

Maintenance Connections is an application that allows you to store assets, all of their attributes, condition ratings, maintenance costs, work orders, etc...pretty much anything you can think of.



Maintenance Connection - MRO WorkCenter 5.0 - SIDMS - Microsoft Internet Explorer provided by Pierce County WA

http://sidms/mc_web/mapp_v12/default.asp?s=34B3B746866800134E561993B07F2993CEB9B783D8F6BF19DDD393D1BA5A41903D563F6E76628f

File Edit View Favorites Tools Help

Web Based CMMS Software | Maintenance Connection ...

File View Actions Tools Applications Help

New Open Explore Reports Dashboard Home

Summary: Print Refresh Help

Asset Explorer

Assets Search

All

Pierce County Road Operations

- DISTRICT 1
- DISTRICT 2
- DISTRICT 3
- DISTRICT 4
- Facility
- Bridges-Assets (Bridge-Inventory)
- Drainage-PC
- Ferry and Airport
- PITS_WASTE
- Right-Way-Assets
- TEST

Michael Isun's Home-Summary

Summary GIS Work Matrix Work Manager Labor Calendars Profile Security

Repair Center: All

Pierce County
Public Works and Utilities
Road Operations

Shop: All

Work Order Info

- My Open Assignments: None
- Requests: [12791] Work Orders
- All Open: [13331] Work Order(s)
- Issued: [539] Work Order(s)

Preventive Maintenance Info

- PM Schedules Due: None
- Generate Work Orders

% of Normal Priority Work Orders

Current Value: 58 Work Orders
Target: 95% Variance: 37 Edit Share

Count of Work Orders with High Priority

Current Value: 5,509 Work Orders
Target: 2000 Variance: 3,509 Edit Share

Done Local intranet 100%



Maintenance Connection - MRO WorkCenter 5.0 - SIDMS - Microsoft Internet Explorer provided by Pierce County WA

http://sidms/mc_web/mapp_v12/default.asp?s=34B3B746866800134E561993B07F2993CEB9B783D8F6B1

File Edit View Favorites Tools Help

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File View Actions Tools Applications Help Maintenance Engineerin Log off

New Open Explore Reports Dashboard Home Back Asset WorkCenter Help

Asset Explorer

Assets Search

Search By: Name Search Value: []

Use current criteria settings Up

Name

Top > DISTRICT 1 > 096 ST E

- FROM MCCUTCHEON RD E TO BRIDGE: 6195A
- FROM BRIDGE: 6195A PUY R (BEG) TO BRIDGE
- FROM BRIDGE: 6195A PUY R (END) TO MP 0.29
- FROM MP 0.29 TO SCHOOL: MCALDER ELEM
- FROM SCHOOL: MCALDER ELEM TO MP 0.74
- FROM MP 0.74 TO SR-162
- FROM SR-162 TO MP 0.94

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FROM SCHOOL: MCALDER ELEM TO MP 0.74 (78660-480) PK: 12504

Details GIS Related Info PMs Attach History

Asset Info

Parent: 78660-096 ST E
096 ST E

Class: ROADSEG Type: A
ROAD SEGMENT Asset

Asset ID: 78660-480

Name: FROM SCHOOL: MCALDER ELEM TO MP 0.74

Change Icon...

Status

In-Service Sub-Status: []

Available for Service Requests

Photo Attach... Remove

Details Meter Costs Insurance Manage Other

Model: []

Serial #: []

Inventory Item: []

Vicinity: []

Zone: []

Maintained By

Repair Center: D1

Shop: []

Priority: []

Warranty Info

Vendor: []

Manufacturer: []

Warranty Ends: []

Page 1 Page 2 User-Defined

Delete Generate History Print

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Maintenance Connection - MRO WorkCenter 5.0 - SIDMS - Microsoft Internet Explorer provided by Pierce County WA

http://sidms/mc_web/mapp_v12/default.asp?s=34B3B746866800134E561993B07F2993CEB96783D8F66F19DD0393D1BA5A41903D563F6E7662

File Edit View Favorites Tools Help

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File View Actions Tools Applications Help Maintenance Engineerin Log off

New Open Explore Reports Dashboard Home Back Asset: WorkCenter Help

Asset Explorer

Assets Search

Search By: Name Search Value: []

Use current criteria settings Up

Name

Top > DISTRICT 1 > 098 ST E

- FROM MCCUTCHEON RD E TO BRIDGE: 6195A
- FROM BRIDGE: 6195A PUY R (BEG) TO BRIDGE
- FROM BRIDGE: 6195A PUY R (END) TO MP 0.29
- FROM MP 0.29 TO SCHOOL: MCALDER ELEM
- FROM SCHOOL: MCALDER ELEM TO MP 0.74
- FROM MP 0.74 TO SR-162
- FROM SR-162 TO MP 0.94

FROM SCHOOL: MCALDER ELEM TO MP 0.74 (78660-480) PK: 12504

Details GIS Related Info PMs Attach History

Work Orders Predictive Problems Location Changes Downtime

Work Orders Group by Status All Levels New... Refresh Print...

WO #	Reason	Target	Completed	Closed	Procedure	Actual Hours
D1-24386	FROM SCHOOL: MCALDER ELEM TO MP 0.74 WF71C is out of range (Current value of 5.000000 is greater than the maximum value of 3.000000) Inspected 05/02/2011	11/28/2011			71C	0
D1-24385	FROM SCHOOL: MCALDER ELEM TO MP 0.74 WF71B is out of range (Current value of 5.000000 is greater than the maximum value of 3.000000) Inspected 05/02/2011	11/28/2011			71B	0
D1-24384	FROM SCHOOL: MCALDER ELEM TO MP 0.74 WF32CS is out of range (Current value of 5.000000 is greater than the maximum value of 3.000000) Inspected 05/02/2011	11/28/2011			32CS	0
D1-24383	FROM SCHOOL: MCALDER ELEM TO MP 0.74 WF32A is out of range (Current value of 5.000000 is greater than the maximum value of 3.000000) Inspected 05/02/2011	11/28/2011			32A	0
D1-1808	FROM SCHOOL: MCALDER ELEM TO MP 0.74 32D is out of range (Current value of 5.000000 is greater than the maximum value of 3.000000)	7/13/2010	6/12/2010	6/12/2010	32D_B	0

Done Local intranet 100%



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http://sidms/mc_web/mapp_v12/default.asp?s=34B3B746866800134E561993B07F2993CEB9B783D8F6BF19DDD393D1B

File Edit View Favorites Tools Help

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File View Actions Tools Applications Help Maintenance Engineerin Log off

New Open Explore Reports Dashboard Home Back Work Order: WorkCenter Help

Asset Explorer

Assets Search

Search By: Name Search Value: []

Use current criteria settings

Name

Top > DISTRICT 1 > 096 ST E

- FROM MCCUTCHEON RD E TO BRIDGE: 6195A
- FROM BRIDGE: 6195A PUY R (BEG) TO BRIDGE
- FROM BRIDGE: 6195A PUY R (END) TO MP 0.29
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- FROM SCHOOL: MCALDER ELEM TO MP 0.74
- FROM MP 0.74 TO SR-162
- FROM SR-162 TO MP 0.94

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Work Order #D1-1508 (Closed)

Details Tasks Costs Attach History Assign Group GIS Report

Request Info

FROM SCHOOL: MCALDER ELEM TO MP 0.74 32D_R is out of range (Current value of 9.000000 is greater than the maximum value of 3.000000)

Problem: Overgrown Vegetation

Requester ID: []

Name: []

Phone: []

Email: []

Asset / Location

DISTRICT 1

096 ST E

FROM SCHOOL: MCALDER ELEM TO MP 0.74 (78660-480)

Details

Function Code: 32D_R

Target Date: 7/13/2010

Target Hours: 1

Type: RO

Reimbursable: []

Priority: 1

Repair Center: D1

Taken By: []

High (60 Days From Requested Date)

Status

Requested 5/14/2010 2:13 PM

Closed

Approval

(Not Required)

Assignments

Alexander, Michae

8/2/2010 1 hr

Indicators

ESA

Attachments RFA

HPA Follow-up Work

Locate Needed Printed / E-Mailed

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ReIssue Delete Survey History Print

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http://sidms/mc_web/mapp_v12/default.asp?s=34B3B746866800134E561993B07F2993CEB9B783D8F6BF19DDD393D1BASA41903D563

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Web Based CMMS Software | Maintenance Connection ... X

File View Actions Tools Applications Help Maintenance Engineerin Log off

New Open Explore Reports Dashboard Home Back Work Order: Print Email Refresh Help

Asset Explorer

Assets Search

Search By: Name Search Value: []

Use current criteria settings Up

Name

Top > DISTRICT 1 > 096 ST E


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- FROM SR-162 TO MP 0.94

Work Order #D1-1508 (Closed)

Details Tasks Costs Attach History Assign Group GIS Report


Work Order Work Order (Statement)

View: All Work Orders in Group ReIssue



Pierce County
Public Works and Utilities
Road Operations

Work Order D1-1508
District 1
Printed 10/17/2011 - 9:36:35 AM



Maintenance Details

Requested: 5/14/2010 2:13:00 PM Target: 7/13/2010 (1) hr

Problem: Overgrown Vegetation (Overgrown Vegetation) Priority/Type: High (60 Days From Requested Date) / Routine

Procedure: 32D_R (32D_R)

Reason: FROM SCHOOL: MCALDER ELEM TO MP 0.74 32D_R is out of range (Current value of 9.000000 is greater than the maximum value of 3.000000)

Model: []
Serial: []
Manufacturer: []
Vicinity: []
Contact: []
Phone: []

Warranty Shutdown Lockout Attach Charge

Tasks

#	Description	Rating	Meas.	Initials	Failed	Complete
10	32D_R		3	tz	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Labor

Labor	Account	Assigned	Work Date	Start	End	Reg Hrs	OT Hrs	Other Hrs
Alexander, Michael		8/2/2010 / 1						

Materials/Tools

Barcode Item	Location	Account	Est Qty	Actual Qty

Labor Report

Completed: _____ Failure: _____

Report: _____

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File View Actions Tools Applications Help Maintenance Engineerin Log off

New Open Explore Reports Dashboard Home Back Work Order: Print Email Refresh Help

Asset Explorer

Assets Search

Search By: Search Value:

Name

Use current criteria settings Up

Name

Top > DISTRICT 1 > 096 ST E


- FROM MCCUTCHEON RD E TO BRIDGE: 6195A
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- FROM MP 0.29 TO SCHOOL: MCALDER ELEM
- FROM SCHOOL: MCALDER ELEM TO MP 0.74
- FROM MP 0.74 TO SR-162
- FROM SR-162 TO MP 0.94

Work Order #D1-1508 (Closed)

Details Tasks Costs Attach History Assign Group GIS Report

Work Order Work Order (Statement)




View: All Work Orders in Group ReIssue



Pierce County
Public Works and Utilities
Road Operations

Work Order D1-1508
District 1
Printed 10/17/2011 - 9:34:33 AM

Maintenance Details

Requested: 5/14/2010 2:13:00 PM	Target: 7/13/2010 (1) hr	 DISTRICT 1
Problem: Overgrown Vegetation (Overgrown Vegetation)	Priority/Type: High (60 Days From Requested Date) / Routine	 096 ST E
Procedure: 32D_R (32D_R)		 FROM SCHOOL: MCALDER ELEM TO MP 0.74 (78660-480)
Reason: FROM SCHOOL: MCALDER ELEM TO MP 0.74 32D_R is out of range (Current value of 9.000000 is greater than the maximum value of 3.000000)		Model:
		Serial:
		Manufacturer:
		Vicinity:
		Contact:
		Phone:

Warranty Shutdown Lockout Attach Charge

Tasks

#	Description	Rating	Meas.	Initials	Failed	Complete
10	32D_R		3	tz	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Labor Report

8/12/2010

Completed: 9:13:00 AM Failure: /

Report: cut with brushcutter

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Questions???

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