

# MATS

## *Managed Assets for Transportation Systems*



**MaineDOT**

***Randy Geaumont***  
*Highway Maintenance Superintendent*  
&  
*MATS System Administrator*

*“To obtain the full benefits of transportation asset management, the process and its principles must be embraced by an organization and become the way of doing business.”*

Source: FHWA-OP-04-037

# MaineDOT's Mission

*To responsibly provide our customers with the safest, most reliable transportation system possible, given available resources.*

*Asset Management allows us to ensure that we are doing this!*

# MATS

## *Managed Assets for Transportation Systems*

- MATS is a product that has been jointly developed by VT, ME, NH and a vendor (Booze-Allen, Delcan, Parsons)
- VT (1995), ME (2000), NH (2002)
- Started out as a “Maintenance Activity Tracking System”
- Assets were added in 2010, MATS became “Managed Assets for Transportation Systems”
- Total cost since 1995 = \$11.4 million (split roughly 3 ways)
- All 3 states own the code (no annual fees)
-

# Interfaces

## Ongoing/Automatic

- People and Payroll (Home grown “FREE2000” system)
- Transportation Network/LRS and Crew Assignment (Highways by Exor/Bentley)
- Fleet Assets and Usage (Asset Works M5)
- Contracts and Contract Payments (Home grown “FREE2000” system)

## Manual/Periodic

- Expenditure Accounts and Project IDs (Home grown FINISS and Projex)
- Bridge Assets (Bentley InspectTech)
- Buildings (State capital asset tracking system)

## Outputs

- Map Viewer (Internally developed web based mapping application and related web services built with ESRI software)
- Agency Dashboard (Oracle Business Intelligence)

# “AIMS” - MATS

## **AIMS – Asset Inventory Management System**

- Originally Microsoft Access Database
- Imported to MATS in October 2010
- Began reporting on specific asset at this time

# Asset Management

## Disclaimer

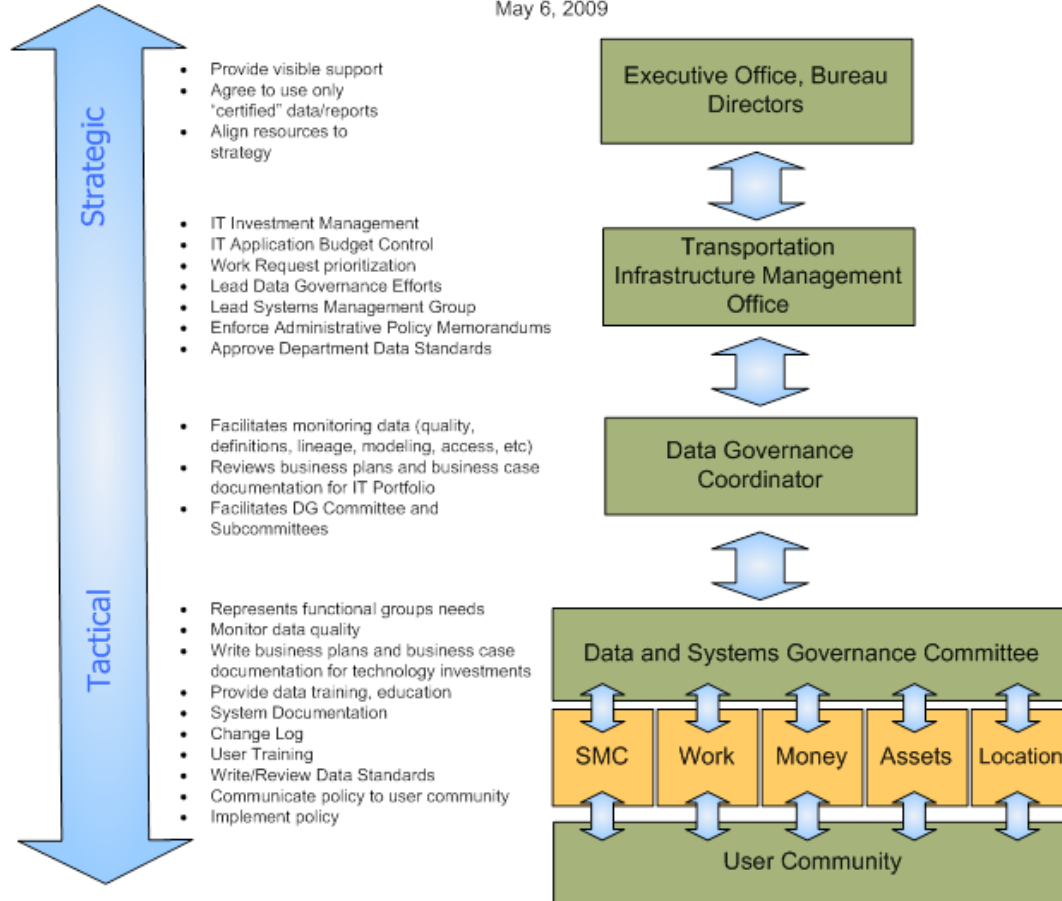
- This effort has taken many years
- More than one collection effort as well

## Lessons Learned

- Having a strong foundation (Data Governance)
- Data Managers and others to embrace
- Activities/groups for reporting standardization
- Don't focus on the software, it is a tool
- Know how you want to collect and use the data

# Data Governance

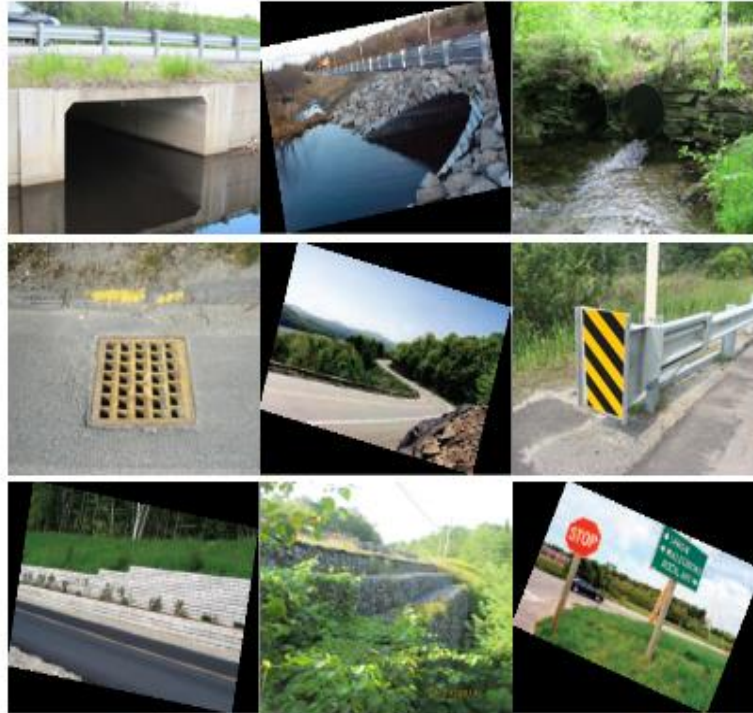
MaineDOT Data and Systems Governance Model  
May 6, 2009





# INVENTORY OF MANAGED ASSETS

## DATA COLLECTION MANUAL



**Bureau of MAINTENANCE & OPERATIONS 2018**

Supersedes Document Dated 2016

*2018 No Boundaries Roadway Maintenance Practices  
Austin, TX*

# Asset Management

- Current Asset Count Approx. 176,000
  - Cross Culverts – 36,700
  - Entrance Culverts – 60, 861
  - Large Culverts (> 4') – 1,795
  - Bridges - 4,280\*
  - Catch Basins – 19,782
  - Major Signs – 2,418
  - Guardrail – 14,069
  - Buildings – 515
  - Many More.....

# Asset Management

Asset Management

Find

Asset Type

- 1-Administration
- 22-Light Poles
- 23-High Mast Poles
- 24-lots other agency-moosej
- 25-Ferry Service Vessel
- 26-Buildings
- 27-Bridge
- 35 - OHVD
- 36 - WWVD Site
- 44 - Park and Ride Lot
- 53-Culvert
- 54-Equipment - Small
- 59 -ADMIN BEACON
- 60-Traffic Signal
- 61-Trusses
- 1000-Sign Array Major
- 1001-Sign Array Minor
- 1100-Large Culvert - Array
  - Culvert - Inlet
  - Culvert - Outlet
  - Culvert - Barrel (S)
  - Wing Wall\_tab (S)
  - Comments (S)
  - Inspection (S)
- 1200-Guardrail - Array
- 1300-Retaining Wall - Array
- 1500-Application Modules
- 1600-Bridge (Other)
- 1700-Observatory
- 1800-Electrical Sites
- 1900-Improvements

Xref CO AT Xref LUSU AT Xref ATAG

Find  # of Records 15

Sys Id	Prompt	Mandatory	Visible	Read Only	Apply Format	Code Data Type
414	Material Type	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200013 - Lookup - List of choices
402	Observational Data	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200015 - Multiline Text - Multiline Text
408	Condition Assessment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200013 - Lookup - List of choices
403	Purpose	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200013 - Lookup - List of choices
406	Length	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200011 - Decimal - Any numeric data type
405	Height	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200011 - Decimal - Any numeric data type
400	MHPC (if granite)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200013 - Lookup - List of choices
401	What it holds up	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200013 - Lookup - List of choices
404	Descr of Risk of Dam...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200012 - Text - Any text.
407	Vertical-batter	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200011 - Decimal - Any numeric data type
409	Seepage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200013 - Lookup - List of choices
410	Stream at bottom	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200012 - Text - Any text.
411	Stream ID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200011 - Decimal - Any numeric data type
412	Bank Full Width	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200011 - Decimal - Any numeric data type
413	Channel Slope	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200011 - Decimal - Any numeric data type

New Xref CO AT

Screen Comments

# Asset Management

**OUC** 71504 - REGION 5 HOULTON CREW **Description** 0002X 264.822 - 265.228 LG\_CULVERT-47097 **Begin Town** 03460 - New Limerick

Core **Map** **Map Viewer** **Inspection-Site Info** **Comments (S)** **Culvert - Barrel (S)** **Culvert - Inlet** **Culvert - Outlet** **Wing Wall\_tab (S)** **Association** **DWR Usage**


**Owning OUC** 71504 - REGION 5 HOULTON CREW **Begin Date** Friday, May 30, 2014  
**Asset Group** Large Culvert **End Date**  
**Asset Parent** MRA-172057-0002X 260.2 - 266 **Install Date** Tuesday, September 19, 2017  
**Display Code** LG\_CUL-47097  
**Description** 0002X 264.822 - 265.228 LG\_CULVERT-47097 **Verification Status** FV - Field Verified  
**Asset Position** Across - Across the road  
**Comment** Node # 8173 by town fire warden

**Location**  
**Route** 0002X - US 2 **RLM Date** 7/23/2018

RLM **Coordinates-Decimal Degrees**

**Primary Location** Coordinates - Decimal Degrees **Total Distance:** 0.406 **Sync**  
**Begin Town** 03460 - New Limerick **End Town** 03460 - New Limerick  
**Begin MP** 264.822 259.870-266.560 **End MP** 265.228 259.870-266.560  
**Route Dir** A - Across / Over **Offset** 0.0000

Server	Path	File
oit-teaqfse...	\dot_mats_ldr_prod\	AS_47097_10...
oit-teaqfse...	\dot_mats_ldr_prod\	AS_47097_58...
oit-teaqfse...	\dot_mats_ldr_prod\	AS_47097_58...
oit-teaqfse...	\dot_mats_ldr_prod\	AS_47097_58...
oit-teaqfse...	\dot_mats_ldr_prod\	AS_47097_58...
oit-teaqfse...	\dot_mats_ldr_prod\	AS_47097_F2...



**Display all child attachments**  
**Add...** **Remove**

# Asset Management

**OUC** 71504 - REGION 5 HOULTON CREW **Description** 0002X 264.822 - 265.228 LG\_CULVERT-47097 **Begin Town** 03460 - New Limerick

Core **Map** **Map Viewer** **Inspection-Site Info** **Comments (S)** **Culvert - Barrel (S)** **Culvert - Inlet** **Culvert - Outlet** **Wing Wall\_tab (S)** **Association** **DWR Usage**


**Owning OUC** 71504 - REGION 5 HOULTON CREW **Begin Date** Friday, May 30, 2014  
**Asset Group** Large Culvert **End Date**  
**Asset Parent** MRA-172057-0002X 260.2 - 266 **Install Date** Tuesday, September 19, 2017  
**Display Code** LG\_CUL-47097 **Verification Status** FV - Field Verified  
**Description** 0002X 264.822 - 265.228 LG\_CULVERT-47097  
**Asset Position** Across - Across the road  
**Comment** Node # 8173 by town fire warden

**Location**  
**Route** 0002X - US 2 **RLM Date** 7/23/2018

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**Begin MP** 264.822 259.870-266.560 **End MP** 265.228 259.870-266.560  
**Route Dir** A - Across / Over **Offset** 0.0000

Server	Path	File
oit-teaqfse...	\dot_mats_ldr_prod\	AS_47097_10...
oit-teaqfse...	\dot_mats_ldr_prod\	AS_47097_58...
oit-teaqfse...	\dot_mats_ldr_prod\	AS_47097_58...
oit-teaqfse...	\dot_mats_ldr_prod\	AS_47097_58...
oit-teaqfse...	\dot_mats_ldr_prod\	AS_47097_58...
oit-teaqfse...	\dot_mats_ldr_prod\	AS_47097_F2...



**Display all child attachments**  
**Add...** **Remove**

# Asset Management

**OUC** 71504 - REGION 5 HOULTON CREW **Description** 0002X 264.822 - 265.228 LG\_CULVERT-47097 **Begin Town** 03460 - New Limerick

Core **Map** **Map Viewer** **Inspection-Site Info** **Comments (S)** **Culvert - Barrel (S)** **Culvert - Inlet** **Culvert - Outlet** **Wing Wall\_tab (S)** **Association** **DWR Usage**


**Owning OUC** 71504 - REGION 5 HOULTON CREW **Begin Date** Friday, May 30, 2014  
**Asset Group** Large Culvert **End Date**  
**Asset Parent** MRA-172057-0002X 260.2 - 266 **Install Date** Tuesday, September 19, 2017  
**Display Code** LG\_CUL-47097  
**Description** 0002X 264.822 - 265.228 LG\_CULVERT-4709 **Verification Status** FV - Field Verified  
**Asset Position** Across - Across the road  
**Comment** Node # 8173 by town fire warden

**Location**  
**Route** 0002X - US 2 **RLM Date** 7/23/2018

**RLM** Coordinates-Decimal Degrees

**Primary Location** Coordinates - Decimal Degrees **Total Distance:** 0.406 **Sync**  
**Begin Town** 03460 - New Limerick **End Town** 03460 - New Limerick  
**Begin MP** 264.822 259.870-266.560 **End MP** 265.228 259.870-266.560  
**Route Dir** A - Across / Over **Offset** 0.0000

Server	Path	File
oit-teaqfse...	\dot_mats_ldr_prodl	AS_47097_10...
oit-teaqfse...	\dot_mats_ldr_prodl	AS_47097_58...
oit-teaqfse...	\dot_mats_ldr_prodl	AS_47097_58...
oit-teaqfse...	\dot_mats_ldr_prodl	AS_47097_58...
oit-teaqfse...	\dot_mats_ldr_prodl	AS_47097_58...
oit-teaqfse...	\dot_mats_ldr_prodl	AS_47097_F2...



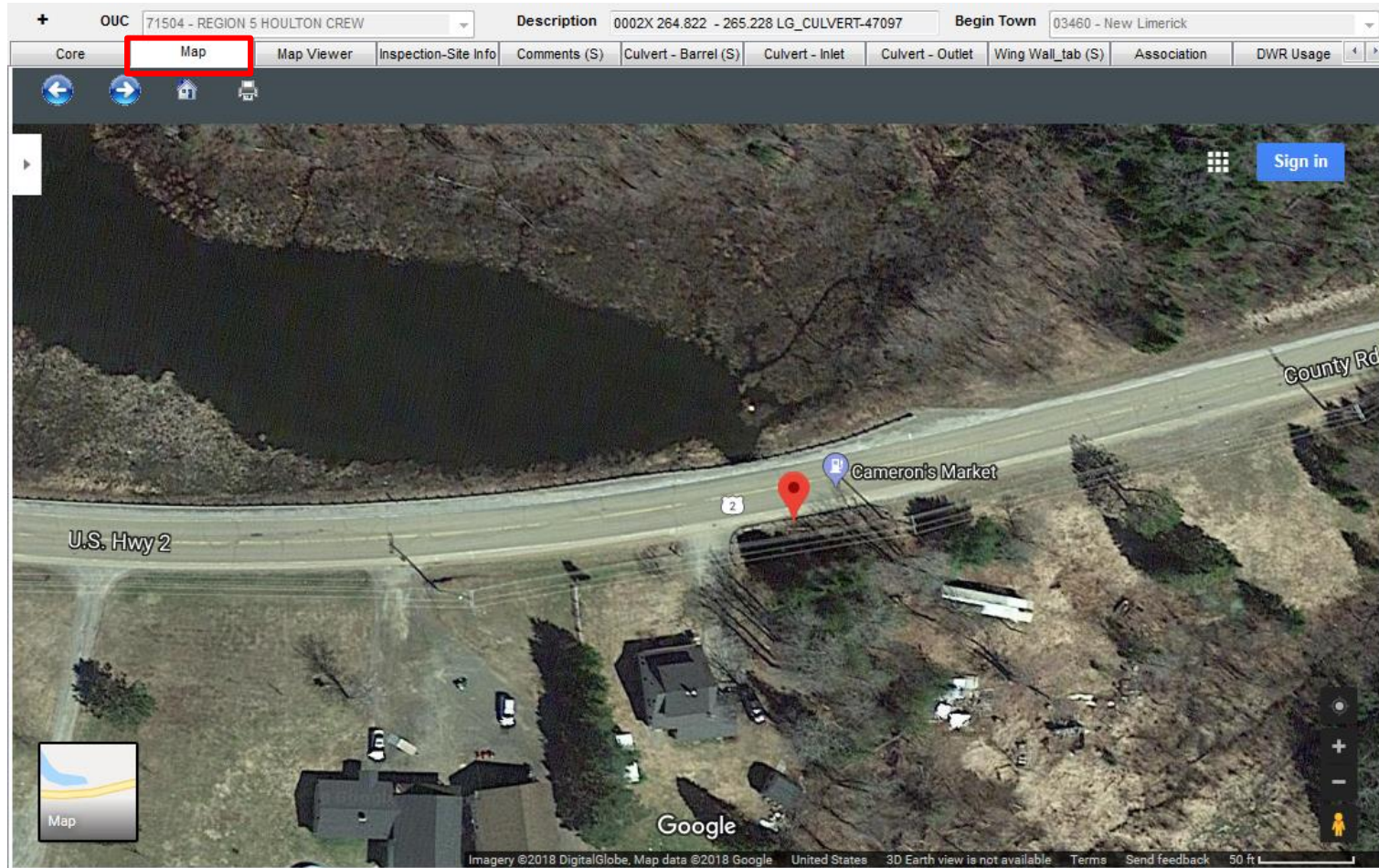
**Display all child attachments**  
**Add...** **Remove**

Synchronization Succeeded! Previous Begin Mile Point = 264.822, Begin Mile Point = 264.822211037568; Previous RLM Date = 7/23/2018 12:00:00 AM, New RLM Date = 9/25/2018 3:26:41 PM

OK



# Asset Management



# Asset Management

## Daily Work Report

Reporting OUC	71504 - REGION 5 HOULTON CREW	DWR Type	ME-DWR-1 - ME DWR-1 Standard Work I	Spec Event		DWR Num	2385757
Activity	192 - Asset Inspection and Inventory	Mod User	Gregory.Scott	Wrk Req	2018 WP Reg 5 Infrastructure Inspection	DWR Date	23-JUL-18
Exp Acct	21162.18 - MAINTENANCE SYSTEM OPS	Mod Date	24-JUL-18				

Core Asset Labor Equipment Rental Material Stockpile Weather

Date\*  Reporting OUC\*

Activity\*  Expenditure Account\*

Work Request  Labor Account

Accomplishment

Labor \$	Equipment \$	Material \$	Total Cost	Unit Cost
\$141.91	\$0.00	\$0.00	\$141.91	\$28.38 Ea



# Asset Management

Reporting OUC: 71504 - REGION 5 HOULTON CREW    DWR Type: ME-DWR-1 - ME DWR-1 Standard Work I    Spec Event:    DWR Num: 2385757

Activity: 192 - Asset Inspection and Inventory    Mod User: Gregory.Scott    Wrk Req: 2018 WP Reg 5 Infrastructure Inspection    DWR Date: 23-JUL-18

Exp Acct: 21162.18 - MAINTENANCE SYSTEM OPS    Mod Date: 24-JUL-18

Core    Asset    Labor    Equipment    Rental    Material    Stockpile    Weather

OUC: 76600 - ENGINEERING & MANAGEME  
Asset Group: Driveway / Entrance Culvert

Find:

Asset	Accomp	UOM	Weighted Avg	Modify Asset
C548I 1.344 Culvert-97439	1.0000	Ea	20.00	<a href="#">C548I 1.344 Cul...</a>
0002X 264.822 - 265.228 LG_CULVERT-47097	1.0000	Ea	20.00	<a href="#">0002X 264.822 ...</a>
0002X 263.483 - 263.887 LG_CULVERT-47098	1.0000	Ea	20.00	<a href="#">0002X 263.483 ...</a>
0002X 261.396 - 261.792 LG_CULVERT-47100	1.0000	Ea	20.00	<a href="#">0002X 261.396 ...</a>
0002X 257.155 LG_CULVERT-47102	1.0000	Ea	20.00	<a href="#">0002X 257.155 ...</a>

Asset Comment:     Filter OUC: 71504 - REGION 5 HOULTON CREW

Location: Route: 0002X - US 2    RLM Date: 7/23/2018

RLM:

Primary Location:     Total Distance: 0.406   

Begin Town: 03460 - New Limerick    End Town: 03460 - New Limerick

Begin MP: 264.822    End MP: 265.228

Route Dir: A - Across / Over    Offset:

Accomp: 1.0000    UOM: Ea    Work Order:

# Asset Management

The screenshot displays the MaineDOT Map Viewer interface. At the top, there are dropdown menus for 'OUC' (71504 - REGION 5 HOULTON CREW), 'Description' (0002X 264.822 - 265.228 LG\_CULVERT-47097), and 'Begin Town' (03460 - New Limerick). Below these are tabs for 'Core', 'Map', 'Map Viewer' (highlighted with a red box), 'Inspection-Site Info', 'Comments (S)', 'Culvert - Barrel (S)', 'Culvert - Inlet', 'Culvert - Outlet', 'Wing Wall\_tab (S)', 'Association', and 'DWR Usage'. The main interface includes a search bar, a map of the region, and a sidebar with road information.

**MaineDOT Map Viewer**

Search... [x] [Q]

1024 County Rd, New Limerick  
46.12542, -67.94071 (Unk ft.)

0 Features Found: [A] Hide Road Info

**Road Information**

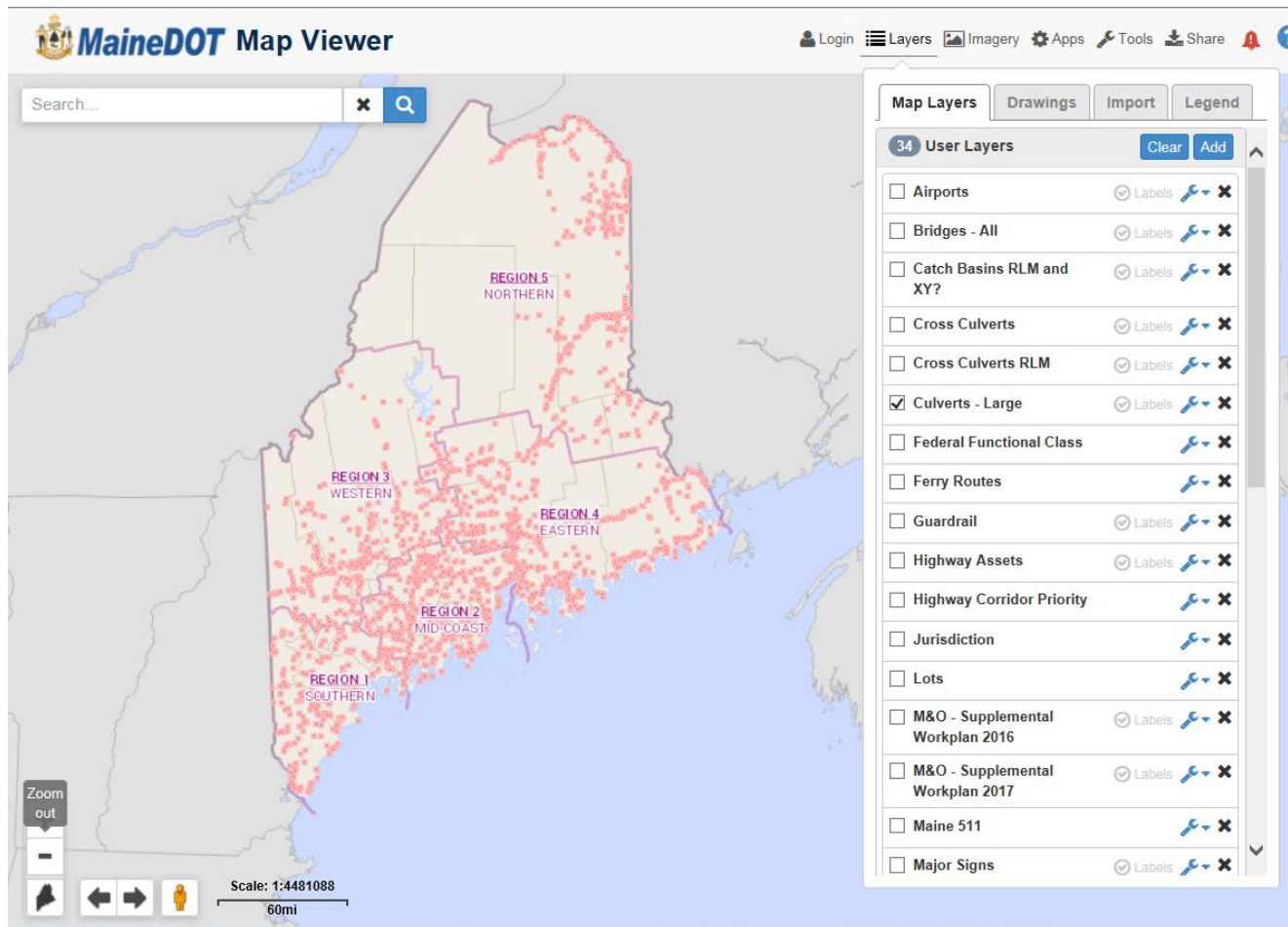
Route	Mile Point
0002X	264.82
H6190	15.22
PDGY75	23.99

Winter Crew	71504
Factored AADT	1721
Link/Element ID	3105600
Route Code	0002X
Primary Route Code	0002X
Begin Mile Point	264.6
End Mile Point	264.94
AADT Type	A
Federal Urban/Rural	Rural
Street Name	COUNTY RD
Map Scale	1:18000

Scale: 1:18000  
0.2mi

# Data Output



# Data Output

The screenshot displays the MaineDOT Map Viewer interface. At the top left, the logo and text "MaineDOT Map Viewer" are visible. The top right contains navigation links: Login, Layers, Imagery, Apps, Tools, Share, and a notification bell. A search bar on the left contains the text "47097" and is highlighted with a red box. Below the search bar, a dropdown menu shows "Culverts - Large" and "47097". Underneath, a "Nodes" section also lists "47097". The main map area shows the state of Maine divided into five regions: REGION 1 SOUTHERN, REGION 2 MID-COAST, REGION 3 WESTERN, REGION 4 EASTERN, and REGION 5 NORTHERN. Numerous red dots representing culverts are scattered across the map. In the bottom left, there are map navigation controls (plus, minus, home, pan) and a scale bar indicating "Scale: 1:4481088" and "60mi". On the right side, a "Map Layers" panel is open, showing a list of 34 user layers. The "Culverts - Large" layer is checked and highlighted. Other layers include Airports, Bridges - All, Catch Basins RLM and XY?, Cross Culverts, Cross Culverts RLM, Federal Functional Class, Ferry Routes, Guardrail, Highway Assets, Highway Corridor Priority, Jurisdiction, Lots, M&O - Supplemental Workplan 2016, M&O - Supplemental Workplan 2017, Maine 511, and Major Signs. Each layer has a checkbox, a "Labels" toggle, and a "Lock" icon.

# Data Output

**MaineDOT Map Viewer**

47097

**Culverts - Large** 1

47097	
Asset ID	47097
Condition	Good
Crew	71504
Depth	3
Description	0002X 264.822 - 265.228 LG_CULVERT-47097
Element ID	LG_CUL-47097
Height	48
Last Inspection Date	7/23/2018
Length	60
MP	264.822
Region	5
RLM Date	7/23/2018
Route	0002X
Spans	1
Town	New Limerick
Type	Concrete Box Culvert
Width	96
X LONG	-67.94071
Y LAT	46.12542

REGION 5 NORTHERN

NEW LIMERICK

JEFFERY RD

COUNTY RD

LG\_CUL-47097

LG\_CUL-912838

Scale: 1:17999

0.2mi

# Data Output

The screenshot displays the MaineDOT Map Viewer interface. At the top, the logo and title "MaineDOT Map Viewer" are visible, along with navigation icons for Login, Layers, Imagery, Apps, Tools, Share, and Help. A search bar contains the ID "47097". Below the search bar, a table titled "Culverts - Large" lists various attributes for the selected asset. A context menu is open over the asset, offering actions such as "Draw on Map", "Send Feedback", "Driving Directions", "Create Buffer", "Add to Route", "Asset Inventory Report", and "RLM Filter". The map shows a yellow road line with a marker for "CUL-47097" and labels for "COUNTY RD", "NEW LIMERICK", and "REGION 5 NORTHERN".

Culverts - Large	
47097	
Asset ID	47097
Condition	Good
Crew	715
Depth	3
Description	000 LG
Element ID	LG
Height	48
Last Inspection Date	7/23/2018
Length	60
MP	264.822
Region	5
RLM Date	9/25/2018
Route	0002X
Spans	1
Town	New Limerick
Type	Concrete Box Culvert
Width	96
X LONG	-67.94071
Y LAT	46.12542



# Data Output

## Maine Department of Transportation


[Managed Asset/Feature Inventory](#)

Managed Roadside Hardware and Non-Transportation Facilities -  
Friday - October 12, 2018

**Report Description:** Detail of **LG\_CUL-47097** - Features by Element and Condition



### MY PARENT

<b>ELEMENT ID</b> <a href="#">MRA-172057</a>	<b>DESCRIPTION</b> 0002X 260.2 - 266.86 MRA-172057		<b>CREW NAME</b> REGION 5 ADMINISTRATION	<b>ASSET TYPE</b> USER ROUTE ASSETS	<b>X LONG</b>	<b>Y LAT</b>
<b>ROUTE</b>	<b>ELEMENT ID</b>	<b>BEGIN MILE POINT/TOWN</b>	<b>END MILE POINT/TOWN</b>	<b>MAINTENANCE CREW</b>	<b>SIDE OF ROAD</b>	<b>ASSET GROUP</b>
<a href="#">0002X</a>	<a href="#">LG_CUL-47097</a>	<a href="#">264.822 IN NEW LIMERICK</a>	<a href="#">265.228 IN NEW LIMERICK</a>	<a href="#">71504</a>	ACROSS	LARGE CULVERT
<b>(6) PICTURES AVAILABLE</b>		<b>(9) DWRS AVAILABLE</b>		<b>NO WRS AVAILABLE</b>	<b>NO CHILD RECORDS</b>	<b>NO STOCKPILES</b>
	<b>RLM DATE</b> 25-SEP-18		<b>INACTIVE DATE</b>		<b>CREW NAME</b> REGION 5 HOULTON CREW	<b>ASSET TYPE</b> LARGE CULVERT - ARRAY
	<b>BEGIN DATE</b> 30-MAY-14	<b>END DATE</b>		<b>Y LATITUDE</b> 46.12542	<b>X LONGITUDE</b> -67.94071	<a href="#">MDOT MAP</a> <a href="#">GOOGLE MAP</a>
	<b>SCORE</b> 87	<b>INSTALL DATE</b> 19-SEP-17		<b>NOTES</b> NODE # 8173 BY TOWN FIRE WARDEN		
	TAB_ASSET=2802					

<b>2802 - INSPECTION-SITE INFO(S)</b>				<b>TOTAL TAB ASSETS = 1</b>	
<b>DISPLAY CODE</b> INSP-1019594	<b>DESCRIPTION</b> INSPECTION #2 FOR LG_CUL-47097			<b>BEGIN DATE</b> 30-MAY-14	<b>END DATE</b>
<b>INSPECTOR</b> RWW		<b>LAST INSPECTION DATE</b> 23-JUL-18		<b>REPAIRED DATE</b>	
<b>VISITATION TYPES</b> SCHEDULED INSPECTION	<b>NEXT INSPECTION DATE</b>		<b>MODIFICATION DESCRIPTIONS</b>		<b>SINK HOLES</b> NONE
<b>COMMENT:</b> (NULL)					
TAB_ASSET=1103					

<b>1103 - CULVERT - BARREL (S)</b>				<b>TOTAL TAB ASSETS = 1</b>	
<b>DISPLAY CODE</b> BAR-586866	<b>DESCRIPTION</b> BARREL #1 FOR LG_CUL-47097			<b>BEGIN DATE</b> 02-OCT-12	<b>END DATE</b>
<b>BARREL STRUCTURE TYPE</b> 03 CONCRETE BOX CULVERT	<b>BARREL CONDITION.</b> 08 GOOD	<b>BARREL LENGTH(FT)</b> 60	<b>SPAN HEIGHT(IN)</b> 48	<b>SPAN WIDTH(IN)</b> 96	<b>SPAN NUMBER</b> 1
<b>SMOOTH BORE</b> YES	<b>DEPTH(FT)</b> 2	<b>SKEW ANGLE</b> NO	<b>ADD LENGTH?</b> NONE NEEDED	<b>ROAD SETTLING?</b> NO	

# Data Output

## Maine Department of Transportation

[Back to LG\\_CUL-47097](#)

Pictures About And Related To LG\_CUL-47097

Friday - October 12, 2018

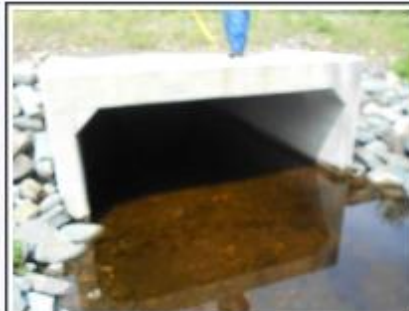
### Report Description:



LG\_CUL-47097



LG\_CUL-47097



LG\_CUL-47097



LG\_CUL-47097

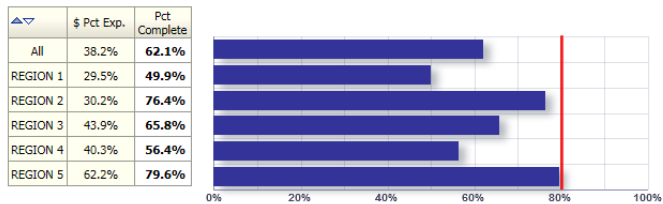


# Data Output

Current Pct Complete

All Budget Requests - Goal is 80% in CY **62.1%**

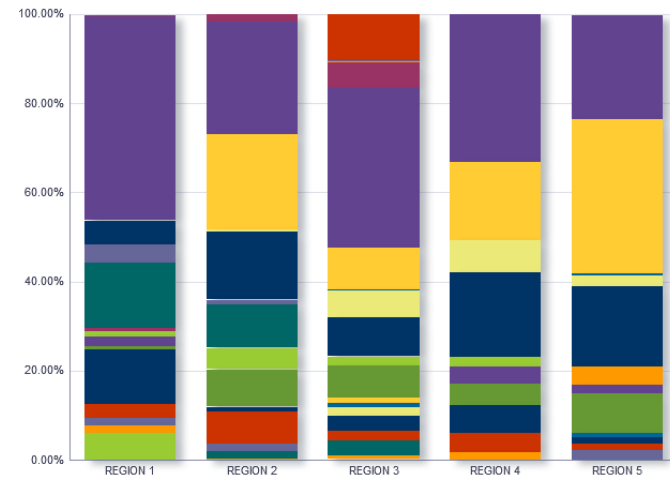
Select a Summary View: By Budget Request Owner



Select a Detailed View: Bureau Summary Details

Plan Est (\$M)	Pct Exp	Activity	Plan Qty	Labor Unit Cost	Pct of Planned Effort	Qty to Date	Pct Plan Qty Complete (Max=120%)	Effort Wtd Pct Compl
\$27.39	38.2%	102 - Roadway Base Cuts or Fills - CY	25	\$6.00	0.00%	0	0.0%	0.0%
		104 - Roadway Base Gravel - CY	5,060	\$24.00	1.67%	0	0.0%	0.0%
		112 - Repairing Surface - Ton	60	\$97.00	0.08%	58	96.5%	0.1%
		113 - Shimming - Ton	600	\$5.00	0.05%	0	0.0%	0.0%
		131 - Grading Shoulder and Gravel - ShMi	20	\$142.00	0.04%	20	100.0%	0.0%
		137 - Maintaining Guardrail or Fences - LF	12,301	\$8.00	1.33%	4,174	33.9%	0.5%
		138 - Installing Guardrail - LF	610	\$7.00	0.06%	1,170	120.0%	0.1%
		211 - Excavator or Backhoe Ditching - LF	1,123,969	\$2.00	34.46%	846,896	75.3%	26.0%
		212 - Winter Drainage Maintenance - Ea	1	\$20.00	0.00%	0	0.0%	0.0%
		213 - Grader Ditching - LF	2,347,116	\$0.00	13.80%	2,182,028	93.0%	12.8%
		221 - Cleaning Drainage Structure - Ea	112	\$62.00	0.09%	95	84.8%	0.1%
		222 - Repairing Drainage Structure - Ea	183	\$1405.00	3.46%	47	25.7%	0.9%
		223 - Replacing or Installing Drainage Structures - Ea	496	\$1933.00	12.91%	353	71.2%	9.2%
		331 - Applying Herbicide - ShMi	26	\$26.00	0.01%	0	0.0%	0.0%
		332 - Removing Trees - Ea	1,535	\$63.00	1.32%	0	0.0%	0.0%
		334 - Removing Brush - LF	366,681	\$1.00	5.66%	10,000	2.7%	0.2%
		511 - Repairing or Replacing Main Support Members - LF	315	\$95.00	0.40%	7	2.2%	0.0%
		512 - Repairing or Replacing Deck - SF	411	\$32.00	0.18%	60	14.6%	0.0%
		513 - Repairing or Replacing Joints - LF	1,025	\$160.00	2.21%	806	78.6%	1.7%
		514 - Repairing or Replacing Abutments - SF	2,186	\$65.00	1.93%	440	20.1%	0.4%
		515 - Repairing or Replacing Retaining Walls - SF	3,453	\$110.00	5.12%	3,057	88.5%	4.5%
		516 - Repairing or Replacing Piers - SF	100	\$135.00	0.18%	0	0.0%	0.0%

Pct of Planned Effort (hover over for data text)



# Data Output

## MaineDOT Business Intelligence

### M&O Performance Management

#### Work Plan Progress Work Plan Expenditures

##### Itemized Work Plan

■ Pct Expended (FACT)

BR Owner	BR ID	Budget Request Description	MATS Costs	FACT Costs	MATS Estimate	FACT Exps./MATS Est.
ENGINEERING & MANAGEMENT SERVICES	22810	Region 6 Itemized Work Plan CY2018	\$0	\$0	\$0	
REGION 1	22792	Region 1 Itemized Work Plan CY2018	\$1,786,446	\$2,493,342	\$6,060,000	41%
REGION 2	22791	Region 2 Itemized Work Plan CY2018	\$2,118,471	\$4,857,302	\$7,008,686	69%
REGION 3	22856	Region 3 Itemized Work Plan CY2018	\$1,756,610	\$2,912,781	\$4,000,000	73%
REGION 4	22855	Region 4 Itemized Work Plan CY2018	\$2,978,905	\$3,917,121	\$7,398,200	53%
REGION 5	22854	Region 5 Itemized Work Plan CY2018	\$1,816,396	\$1,746,844	\$2,922,600	60%
Total This BR Type			\$10,456,829	\$15,927,390	\$27,389,486	58%

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##### Statewide Work Plan

■ Pct Expended (FACT)

BR Owner	BR ID	Budget Request Description	MATS Costs	FACT Costs	MATS Estimate	FACT Exps./MATS Est.
	22811	24-Hour Operations Center CY2018	\$282,470	\$721,271	\$550,000	131%
	22812	ITS Device Maintenance CY2018	\$45,527	\$135,142	\$176,000	77%
	22813	Communication and Outreach CY2018 (R6 Only)	\$0	\$43,916	\$155,000	28%
	22814	Employee Education and Training (M&O) CY2018	\$3,079,374	\$4,276,587	\$4,980,000	86%
	22815	Infrastructure Inspections & Inventory CY2018	\$383,832	\$935,165	\$1,300,000	72%
	22816	Environmental Program Management CY2018	\$0	\$524,885	\$980,000	54%
	22817	Region 1 Administration CY2018	\$72,246	\$787,258	\$920,000	86%
	22818	Region 2 Administration CY2018	\$174,267	\$1,179,057	\$1,250,000	94%
	22819	Region 3 Administration CY2018	\$63,756	\$766,531	\$1,165,000	66%
	22820	Region 4 Administration CY2018	\$152,011	\$1,046,430	\$1,350,000	78%
	22821	Region 5 Administration CY2018	\$64,078	\$887,904	\$990,000	90%
	22822	Region 6 Administration CY2018	\$47,747	\$1,676,838	\$1,900,000	88%

# Questions?

