

DISASTER DOCUMENTATION



State Emergency Operations Center

- WebEOC
 - Town/City Representatives
 - HSEM Local Liaison
 - Road Closures
 - Mission/Task

State Emergency Operations Center

- Request for Resources
 - Town Resources
 - NHPWA Public Works Mutual Aid
 - <https://t2.unh.edu/nhpwa>
 - State Resources
 - Federal Resources



Technology Transfer Center

Affiliate Groups > NH Public Works Mutual Aid

Affiliate Groups

NH Municipal Contacts

NH Public Works Association >

NH Public Works Mutual Aid v

Board Members

History

Joining Mutual Aid

Meeting Minutes

Mutual Aid Members, Links, and Other Resources

Providing Mutual Aid

Requesting Mutual Aid

National LTAP Program >

NH Public Works Mutual Aid



New Hampshire Public Works Mutual Aid Program

Call for help: 877-731-9908 (toll-free)

THANKS to the Board Members who are on the emergency call list:

Alan Cote, Derry

Kurt Blomquist, Keene

Affiliate Groups

NH Municipal Contacts

NH Public Works Association >

NH Public Works Mutual Aid >

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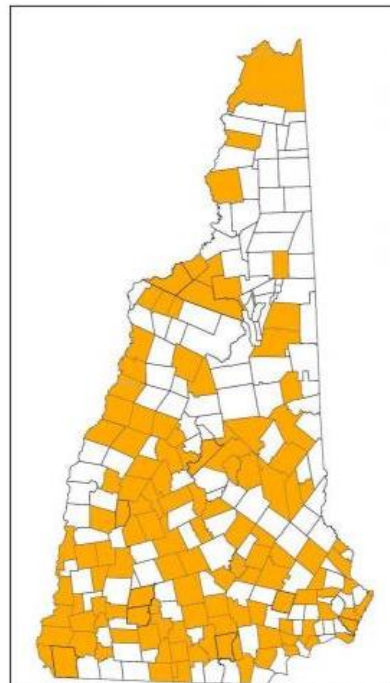
Providing Mutual Aid

Requesting Mutual Aid

National LTAP Program >

Mutual Aid Members, Links, and Other Resources

[Complete List of ALL NHPWMA Members](#)



All Community Members

Highway Department Members

Participating Communities

[Existing Inventory](#)

Building Inspector Members

Participating Communities

Existing Inventory

Water & Wastewater Members

[Participating Communities](#)

Existing Inventory

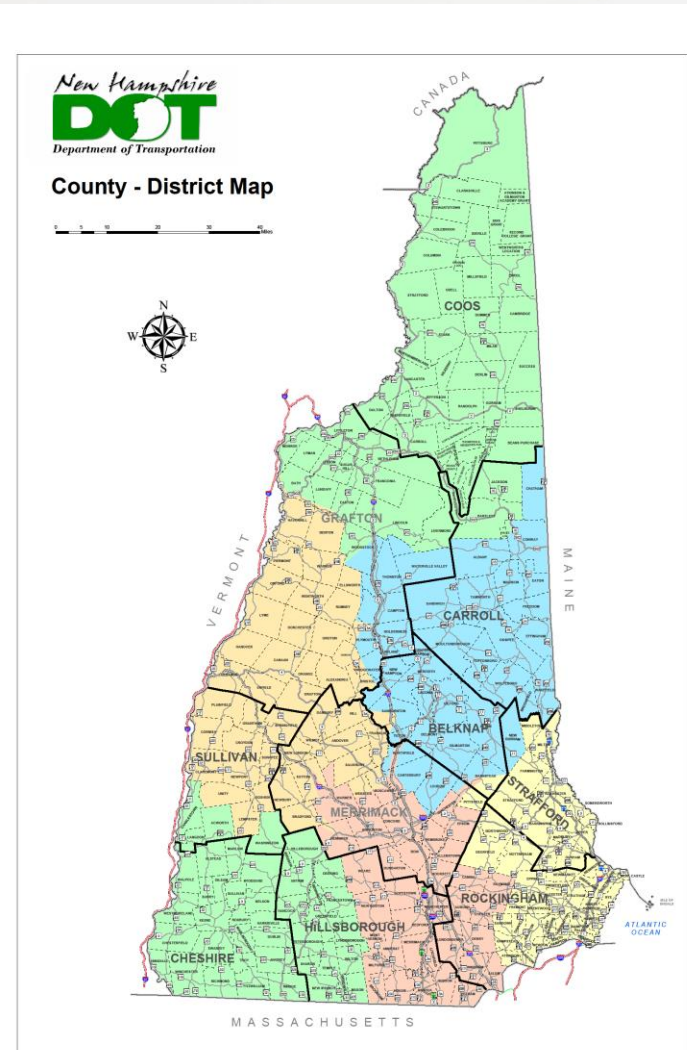
MUNICIPALITY	DISTRICT	quantity	equip_type	attachments
ACWORTH	4	1	BRUSH CHIPPER	LARGE
ACWORTH	4	1	TRAILERS	
ACWORTH	4	2	PORTABLE WATER PUMPS	2"
ACWORTH	4	1	SUPERINTENDENT	DIRECTOR
ACWORTH	4	1	LOADER 2 TO 3 YD	
ACWORTH	4	1	BACKHOE LOADER 70 TO 80 HP	4X4
ACWORTH	4	2	1 TON DUMP TRUCK	SANDER, PLOW
ACWORTH	4	1	6 WHEEL DUMP TRUCK	SANDER, PLOW & WING
ACWORTH	4	1	TEN WHEEL DUMP TRUCK	SANDER, PLOW
ACWORTH	4	3	POWER SAWS	CHAIN SAW 24" BAR
ACWORTH	4	2	VIBRATING COMPACTORS	PLATE TYPE, ROLLER TYPE
ALEXANDRIA	2	1	SUPERINTENDENT	ROAD AGENT
ALEXANDRIA	2	1	WATER TANK TRAILER, TRUCK MOUNT OR SIDE SLIDE IN	500 GAL
ALEXANDRIA	2	1	LOADER 2 TO 3 YD	FORKS
ALEXANDRIA	2	5	MATERIALS & SUPPLIES	5 CULVERT
ALEXANDRIA	2	2	TRUCK DRIVER	HIGHWAY
ALEXANDRIA	2	1	1 TON DUMP TRUCK	SANDER, PLOW
ALEXANDRIA	2	3	POWER SAWS	CHAIN SAW 16" BAR
ALEXANDRIA	2	1	BRUSH CHIPPER	LARGE
ALEXANDRIA	2	2	TEN WHEEL DUMP TRUCK	SANDER, PLOW, PLOW & WING
ALEXANDRIA	2	1	HEAVY EQUIPMENT OPERATOR	HIGHWAY
ALEXANDRIA	2	1	BACKHOE LOADER 70 TO 80 HP	4X4, EXTENDAHOE, TWIST-A-WRIST

State Emergency Operations Center

- State Resources
 - NHDOT Lead Agency for ESF1 and ESF3
 - Sand bags
 - Emergency Access
 - Traffic Control Devices
 - Department of Administrative Services
 - Equipment – Generators
 - Supplies – water
 - Contracts – pre-established and emergency
 - Cost of Assistance

NHDOT Maintenance

- Highway Maintenance
 - 6 Districts
 - 86 Patrol Sections
 - ~8,620 Lane Miles
- Bureau of Turnpikes
 - 6 Patrol Sections
 - ~625 Lane Miles
- Other Bureaus
 - Bridge Maintenance
 - Rail & Transit



Declared Storms 2007-2018

MAJOR DISASTER DECLARATIONS for NHDOT

Date	Storm	FEMA #	Declared
Mar 2018	Snow Storm	DR-4371	Mar 13-14, 2018 Rockingham, Strafford, Carroll counties
Mar 2018	Coastal Flooding	DR-4370	Mar 1-2, 2018; District 6 NH 1A, seawalls
Oct 2017	Storm & Floods	DR-4355	Oct 29 – Nov 1, 2017; Coos, Grafton, Carroll; Belknap, Merrimack, and Sullivan counties
July 2017	Rain Storms & Floods	DR-4329	Jul 1 – 2, 2017: Coos, Grafton counties
Mar 2017	Ice & Wind Storm	DR-4316	Mar 14-15, 2017: Carroll and Belknap counties
Apr 2016	Stoddard Fire	FM-5123	Apr 21-22, 2016
Feb 2015	Snow Storm "Juno"	DR-4209	Feb 26-28, 2015: Strafford, Rockingham, Hillsborough
Jun/Jul 2013	Rain Storms	DR-4139	Jun 26-Jul 3, 2013: Grafton, Sullivan, and Cheshire.
Feb 2013	Snow Storm "Nemo"	DR-4105	Feb 8, 2013 - Feb 9, 2013: Sullivan, Belknap, Cheshire, Merrimack, Hillsborough, Strafford, Rockingham; Feb 8-10, 2013: Carroll County only.
Oct 2012	Hurricane Sandy	DR-4095	Oct 26-31, 2012: Belknap, Carroll, Coos, Grafton, Sullivan; Oct 26-Nov 8, 2012: Rockingham County only.
May 2012	Cheshire Floods	DR-4065	May 29-31, 2012: Cheshire.
Oct 2011	Snow Storm	DR-4049	Oct 29-31, 2011 Hillsborough and Rockingham.
Aug 2011	TS Irene	DR-4026	Aug 26-Sep 6, 2011: All counties.
May 2011	North Country Floods	DR-4006	May 26-30, 2011: Coos and Grafton.
Mar 2010	Spring Floods	DR-1913	Mar 14-31, 2010: All counties.
Feb 2010	Winter/Wind Storm	DR-1892	Feb 23-Mar 3, 2010: Grafton, Hillsborough, Merrimack, Rockingham, Strafford, and Sullivan.
Dec 2008	Ice Storm	DR-1812	Dec 11-23, 2008: All counties.
Sep 2008	Severe Storm/Floods	DR-1799	Sep 6-8, 2008: Hillsborough.
Aug 2008	Lakes Region Floods	DR-1787	Jul 24-Aug 14, 2008: Belknap, Coos, Grafton, Carroll.
Jul 2008	Tornado	DR-1782	Jul 24, 2008: Belknap, Carroll and Rockingham, Merrimack, and Strafford.

Storm – Declaration

- Storm Event
- Preliminary Damage Assessment (PDA)
- State Requests Declaration
- Presidential Declaration
- Applicant Briefing - 30 days to Request for Public Assistance (RPA)



Storm – New PA Delivery Model

- Program Delivery Mgr (PDMG) assigned
 - clock starts here
- Exploratory Call (7 days)
- Recovery Scoping Meeting (within 21 Days)
 - Details of Impacts
 - Project Formulation
 - Identify All Damages (60 days after RSM)
- Site Inspections
 - work not completed

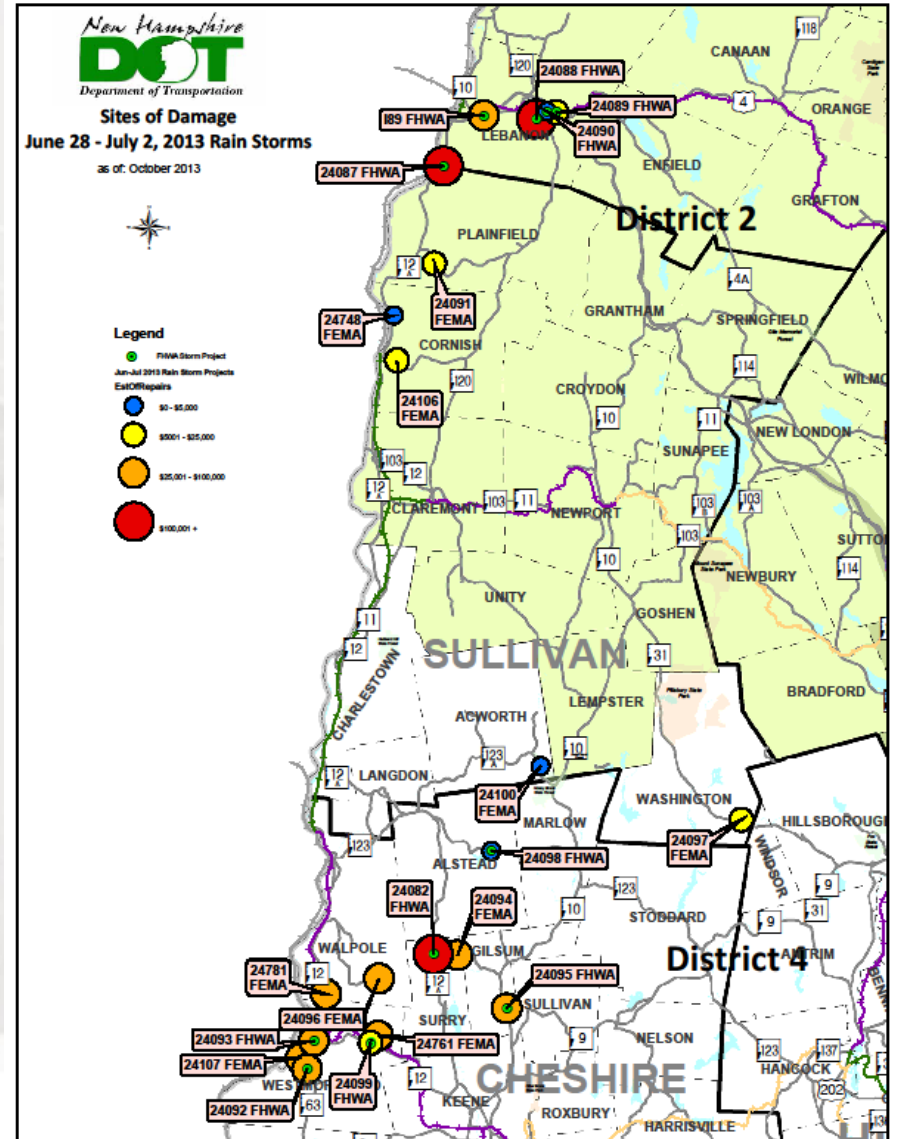
Storm – Declaration – Inspections

- For July 2017, Oct 2017 and March 2018 storm:
 - Average over 2 months for declaration
 - Average over 4 months for first site inspection



Goals

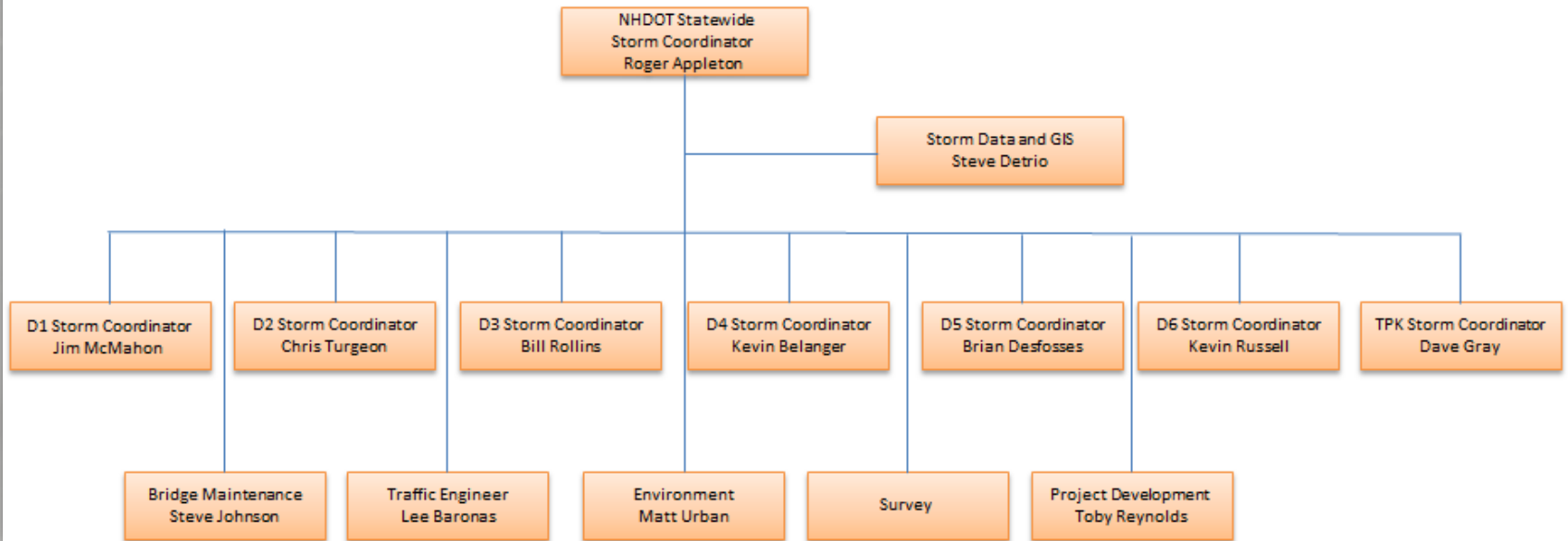
- Understand damage within first 2-3 days
- Have damage estimates developed for PDA
- Document response and repairs properly for reimbursement



Storm Coordinators



Storm Coordinators



Storm Coordinators - Statewide

- **Statewide Storm Coordinator**
 - Primary Contact for Storm Events
 - Conduit to Internal & External Agencies
 - Defines Roles, Responsibilities and Removes Obstacles across Departments/Divisions
 - Activities Performed, Costs, Hours, Equipment, Materials
 - Work Order System, Fleet, Inventory, Material Stockpile, HR/Payroll, Timesheets, Contracts
 - Costs & Documentation for Reimbursement

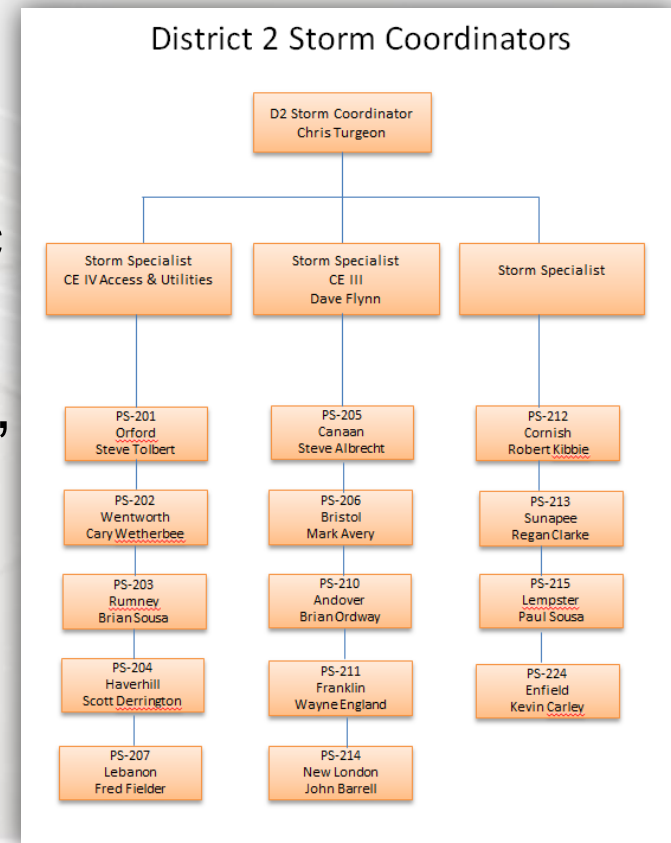
Storm Coordinators - District

- **District Storm Coordinators**
 - Storm POC for District/Town Department
 - Available immediately after a storm
 - Train/Prepare Storm Specialists with tools needed
 - Oversee documentation activities in their District
 - Review damage/project assignments, estimates, costs and documentation from storm specialists
 - Assist Statewide Coordinator with documentation and reimbursement process

Storm Coordinators - Specialists

- **Storm Specialists**

- Available on-site immediately after storm
- Not involved with repairs, traffic control, etc
- Have stakes/paint, storm forms, measure wheel, camera, extra batteries, projects #s
- Responsible for documenting damage in assigned areas



On-Site Documentation

- GPS Photos
- Formulate damages to project sites
- Physically mark/paint/stake project
- Document site information:
 - Begin/ending gps coordinates; address
 - Road/Bridge/Assets impacted
 - Description and Dimensions
 - Emergency & Permanent Repairs
 - Traffic Impact
 - Estimated Repair Costs



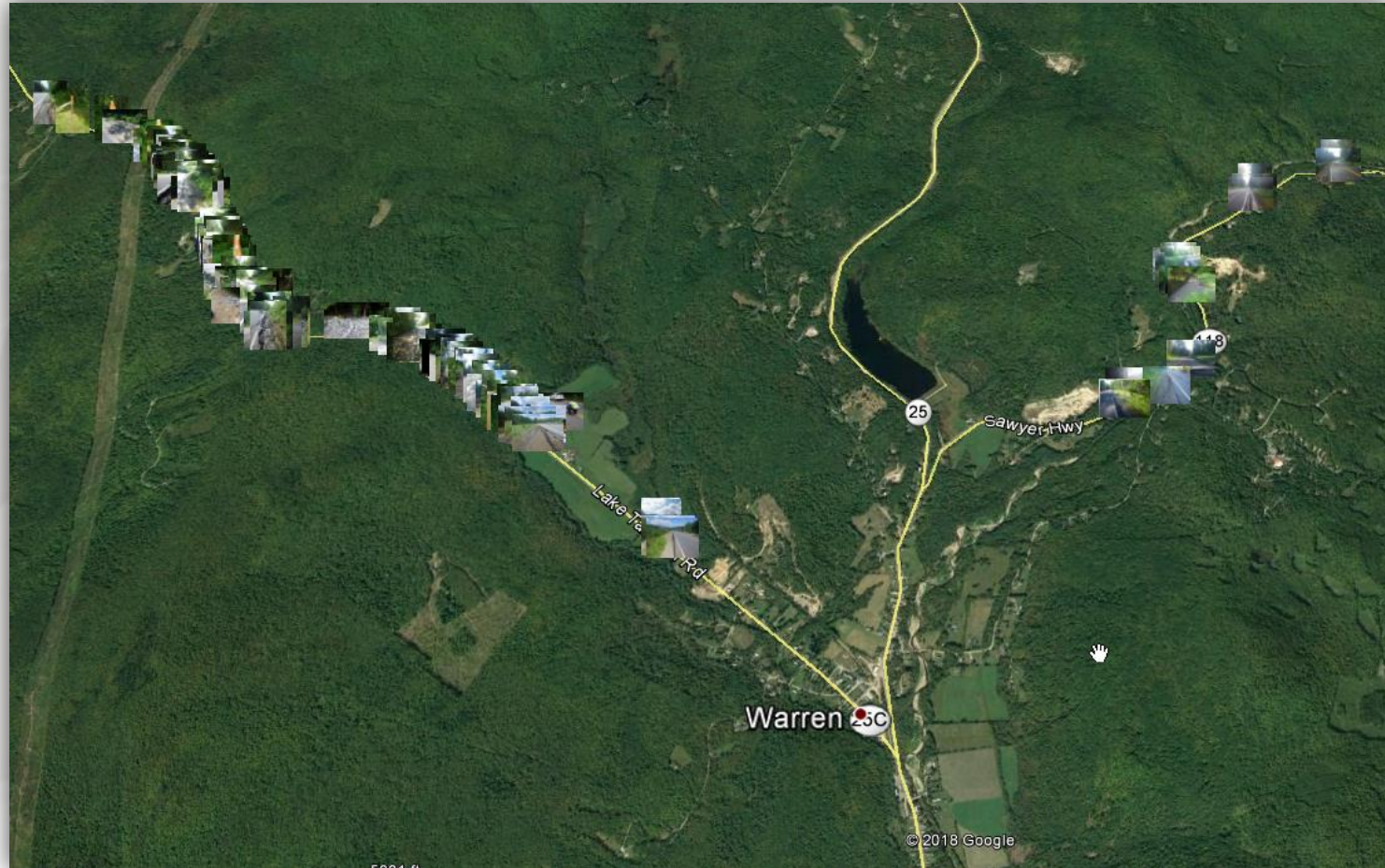
Documentation - GPS Camera

- Photos document pre, during and post repairs
 - GPS “Tough” Cameras
 - Ricoh WG-50 \$250
 - Extra batteries/charger
 - Extra SD cards
 - Cell phones (location on)

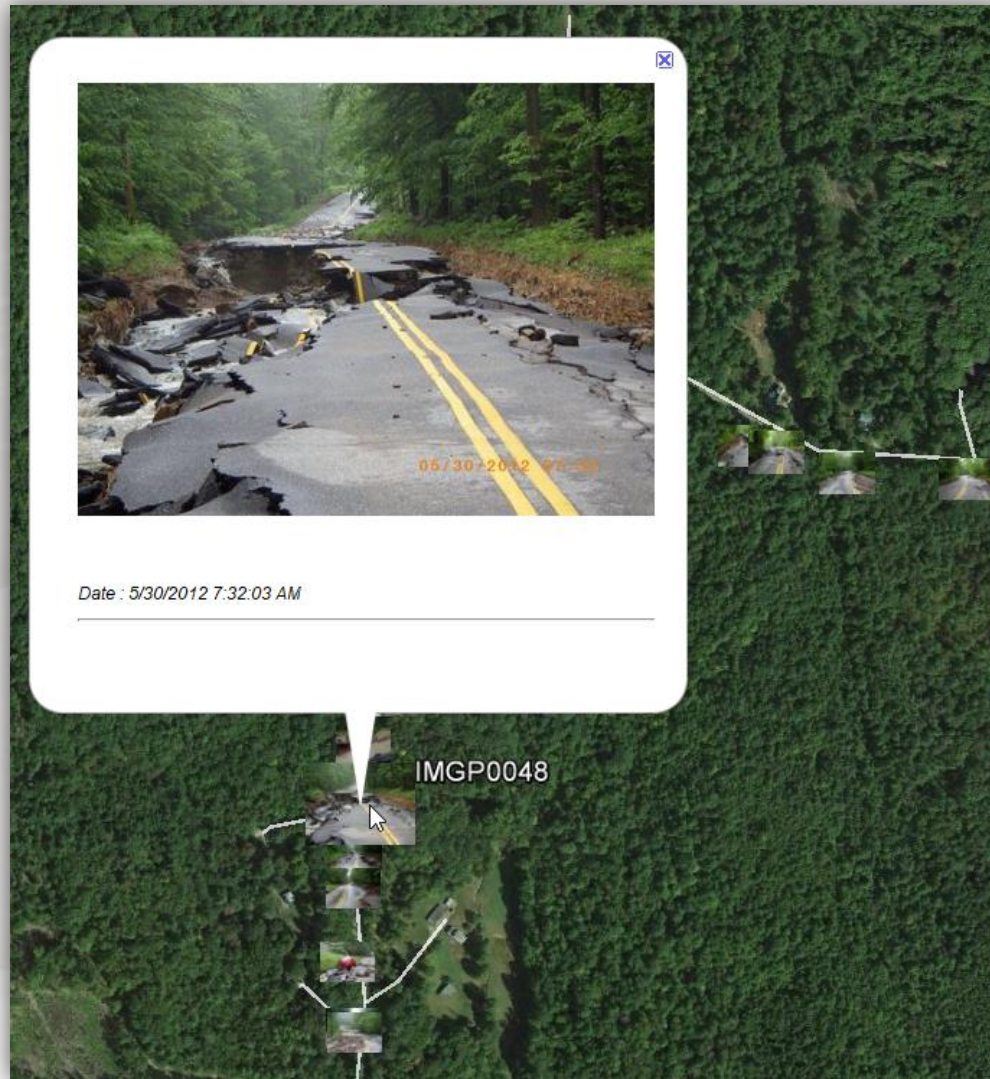


Documentation - Photos

- Warren 25C & NH118 in Google Earth KMZ file July2017



Documentation - Photos



Documentation - Photos



Documentation - Photos

Big Picture



Detail shots



But not too close



Documentation - Photos



During Repairs



Post Repairs

Storm Manual

- Always preparing for the next storm...



Storm Event Manual NH DOT Bureau of Highway Maintenance



Bureau of Highway Maintenance | 603.271.2693
New Hampshire Department of Transportation
7 Hazen Drive | Concord, New Hampshire 03302

Documentation

- DOT standard form
- General project information
- Gathered on initial inspections

DOT Project Name STM77xxx enter project description		FED Project #	Disaster # DR4355	Storm OCT 2017 STORM
Route #	Road/Rail/Road Name	Bridge Number	Insp	Initials
Town	County ROCKINGHAM	District/Bure RAIL	FEMA/FHWA FEMA	Photos Pre Repair YES
Begin	GPS Long	GPS Lat	MM/ Address	Revision #
End	Env Permit YES	Historical Str (106)	Mitigation Proposed	Date
	Initial Repair Estimate	Permanent Project Requested		Initials
Damage Description				
Emergency Repair Description				
Permanent Repair Description				
Description of Traffic Impact				

Page 1

Documentation

- All information needed for FEMA
- Detailed dimensions
- Individual Sites
- Mitigation

ROADWAY DAMAGE DESCRIPTION & DIMENSIONS							FORM VERSION	1.3	9/4/2018
Project #	Project Name					Disaster #	Storm		
STM77xxx	enter project description					DR4355	OCT 2017 STORM		
ROADWAY INFORMATION									
Year Built	Width (ft)	# Lanes	Road Type	Pavement		Depth (in)			
Damage Dimensions (Roadway, Shoulder and Ditch Damage)									
<i>*Linear damage - document beg to end if > 100' or if intermittent just get road beg and end, gns and state intermittent.</i>									
Site	L (ft)	W (ft)	Total D (ft)	L (ft) Pavement	W (ft) Pavement	Roadway Backfill (CY)	Quantity Pavement (Tons)	Comments	
						0	0		
						0	0		
						0	0		
						0	0		
						0	0		
						0	0		
						0	0		
						0	0		
						0	0		
						0	0		
						0	0		
						0	0		
						0	0		
						0	0		
						0	0		
						0	0		
						TOTAL	0	0	
Mitigation Requested	Mitigation Proposed								
YES									
Damage Dimensions (Embankments)									
Site	L (ft)	W (ft)	D (ft)	Quantity Embankment (CY)	Mitigation Requested	Mitigation Proposed			
				0	YES				
				0	NO				
				0	NO				
				0	NO				
				0	NO				
				0	NO				
				0	NO				
				0	NO				
				0	NO				
				0	NO				
				0	NO				
				0	NO				
				0	NO				
				0	NO				
				TOTAL	0				
Damage Dimensions (Culverts)									
<i>*Culvert Damage - Document each culvert with GPS Coordinates</i>									
Type	L (ft)	Diameter (in)	Height (in) (Box)	Latitude	Longitude	Mitigation Requested	Mitigation Proposed		
						YES			
						YES			

Page 1

FEMA Cat A - Debris

- **Cradle to grave** documentation needed
 - Quantities
 - Locations
- Trees, woody debris, sand, mud, gravel
 - Public Property Only
- Disposal
 - Methods
 - Locations
- Photos
- Reasonable Costs



FEMA Cat B – Em Prot Measures

- Before, during and after disasters to save lives, protect public health, safety and improved property.
- Activities
 - Deploying signs, cones, barricades, sandbags & restoration of access
 - Multi Jurisdictional
- Hours
 - Track OT and Regular
 - Track Equipment – Active vs Standby
- Photos

FEMA Cat C – Roads & Bridges

- Must be applicants responsibility
- Document scope of damage & repair work
- Replace in-kind; approval needed to up-size
 - Mitigation or
 - Update to current standards
 - All work must comply to rules & regulations
- Emergency vs. Permanent Repair Work
- Costs must be reasonable

FEMA Other Categories

- Category D Water Control Facilities
- Category E Buildings and Equipment
- Category F Utilities (power generation and distribution, natural gas, power lines, sub stations, wind turbines...)
- Category G Parks, Recreational Areas & Other Facilities (beaches, piers, playgrounds, pools, tennis courts, picnic equipment...)

FEMA Project - Sites

- Different types = Different projects
- Easier to Combine Projects Later
- Group intermittent similar damages
- All sites
 - Length x Width x Depth
- Track Labor, Equipment & Materials for each project
 - Track stockpile materials used in repairs
 - Purchase new or reorder materials immediately

FEMA – PROCUREMENT

- Use your standard procurement processes
- Contracts – Competitively Bid
 - Doesn't have to be lowest cost
- On Call Agreements for Emergency Work
 - DOT – Contract Rental Agreements



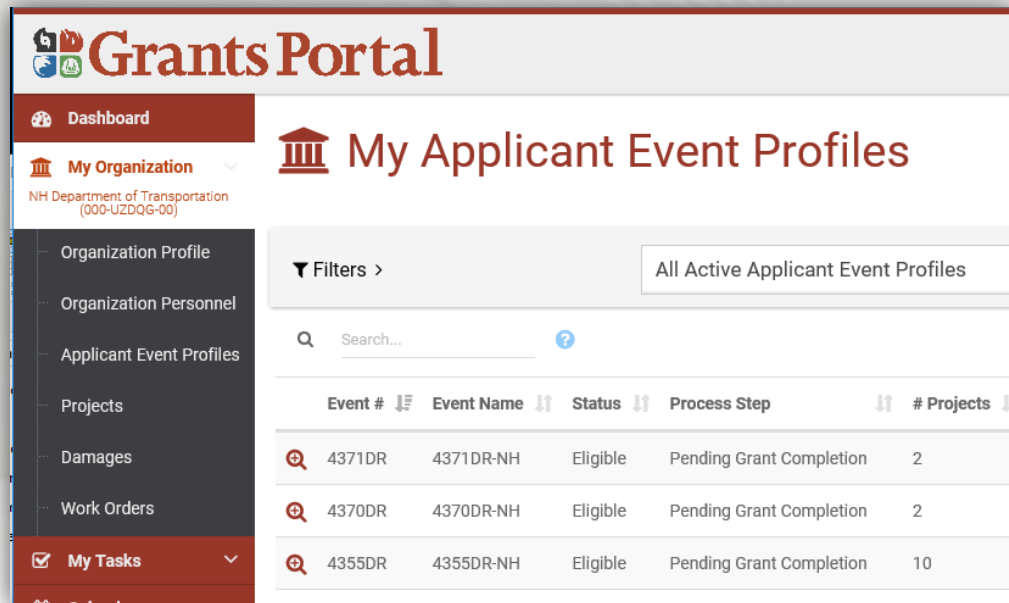
FEMA – NEW PROCESS

- Work Completed
 - No Site Inspections
 - FEMA relies on your information.
- Work to be Completed
 - FEMA Site Inspections
 - Detailed damage dimensions
 - Potential Mitigation
 - FEMA scoping/costing



FEMA – NEW PROCESS

- GrantsPortal
 - If it is not in the portal it does not exist
 - FEMA will assist with portal if needed
 - Who at Municipality will be responsible
- Applicant approval at all steps
- Register now
- HSEM Training



The screenshot displays the GrantsPortal interface. The top navigation bar includes the 'GrantsPortal' logo and a 'My Organization' dropdown menu set to 'NH Department of Transportation (000-UZDQG-00)'. The main content area is titled 'My Applicant Event Profiles' and features a search bar and a table of active profiles.

Event #	Event Name	Status	Process Step	# Projects
4371DR	4371DR-NH	Eligible	Pending Grant Completion	2
4370DR	4370DR-NH	Eligible	Pending Grant Completion	2
4355DR	4355DR-NH	Eligible	Pending Grant Completion	10

FEMA – Key Points

- DOCUMENT and PHOTOS
- Costs need to be REASONABLE
- Work Completed – NO site visits
- Force Account
 - Regular Time, O.T., Benefits
 - Equipment and Operators
- Environmental/cultural permitting
- “What would you normally do????”
- “Cradle to Grave”



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