

Communities in Crisis:

MERRIMACK VALLEY GAS EXPLOSIONS ROCK REGIONAL INFRASTRUCTURE

Presenters:

Town of Andover

Chris Cronin

Director of Public Works

City of Lawrence

Carlos Jaquez

Director of Public Works

Town of North Andover

Jim Stanford

Director of Public Works







0:00



-0:30



The First 8 Hours

- Public Works as part of First Responder conversation
- Mutual Aid – light towers, barricades, sign boards
- Communication!
- Unsung heroes – public works staff showed up for work despite their homes and personal lives being affected by the disaster, and stayed throughout the weekend to help assure the safety of their residents.
- Fog of War

RESPONSE + ASSESSMENT

September 13, 2018

THE COMMUNITIES COLLECTIVELY FACED

1

Fatality

18 YO LAWRENCE MAN

80+

Building Fires

HOMES AND BUSINESSES

110+

Damaged Buildings FROM

FIRES AND/OR EXPLOSIONS

374+

Emergency Responses

IN FIRST 8 HOURS

8,500+

Properties Without Power

MOST FOR 4 DAYS

8,600+

Properties Without Gas

MOST THROUGH NOVEMBER

Timeline

- Thursday September 13, 2018 – disaster strikes
- Setting up Command Center, Mutual Aid coming in from all over State
- None of the DPW Directors went home that night
- Friday – asked to be invited to meeting with Police and Fire Chiefs, Mayor, and Town Managers with Columbia Gas. Very limited information being distributed at this point.
- Saturday evening power begins to turn back on
- Sunday became obvious that gas would not be restored by Monday due to compromised pipes.

Timeline

- Monday – Chris realized other DPW's were not invited into meetings and suggested they get themselves involved.
- Monday – Joe Albanese, Chief Recovery Officer, pointed out the need for DPW to be involved
- Tuesday – 3 DPW Directors collectively decided they needed outside help
- Wednesday – meeting with all involved parties decided to hire EP
- Thursday September 19 - contracts in place
- Monday September 24 – full response

Timeline

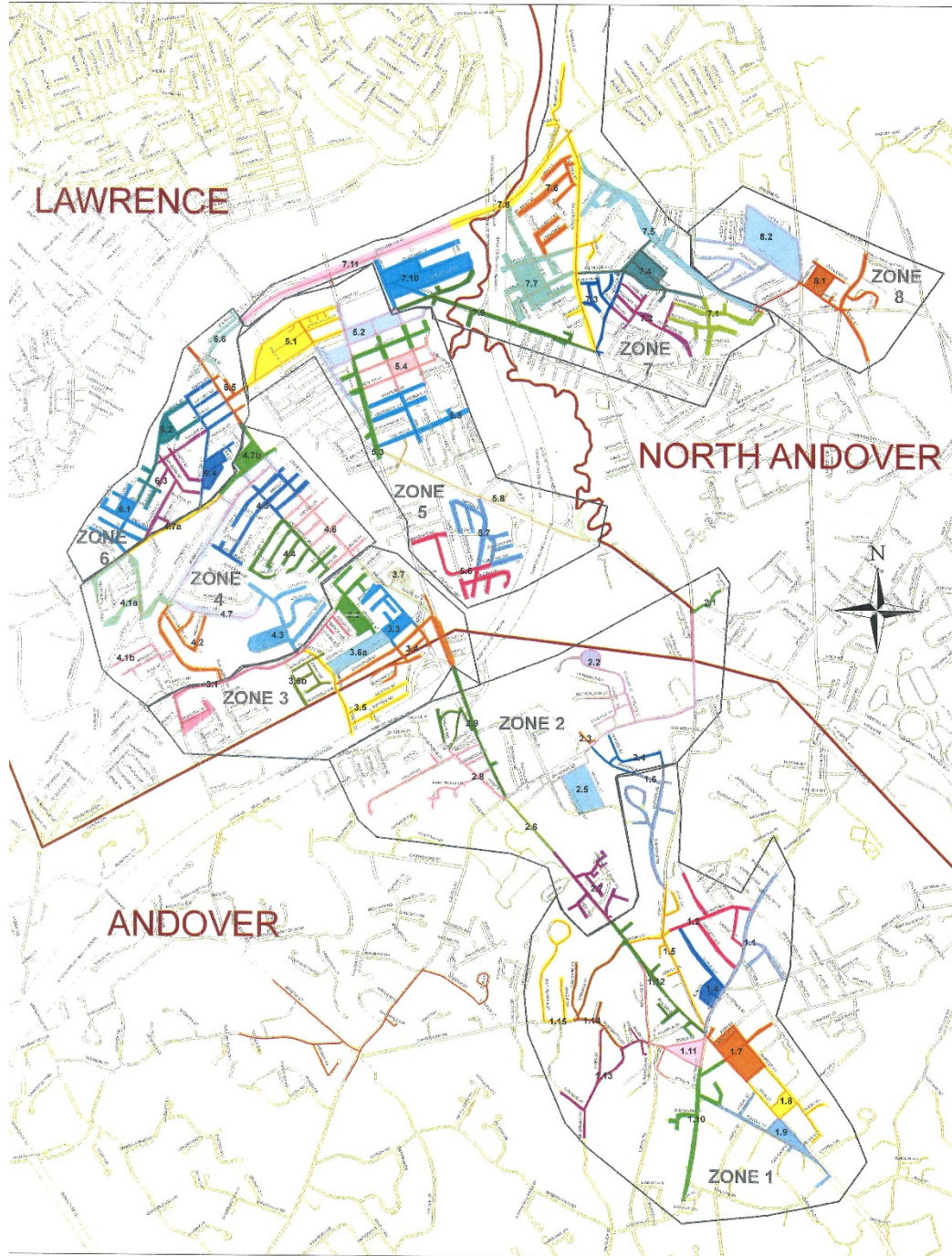
- War Room at Lawrence City Hall – daily meetings that point forward
- Daily Meetings were a cooperative environment – everyone had same objective
- Daily meetings is point at which municipalities assumed control of the situation

“The thing that was important about our collaboration with Environmental Partners is that it changed the relationship with Columbia Gas’ construction crews from them just telling us what was going to happen, to them really getting permission.”

Mayor Dan Rivera



LAWRENCE REPLACEMENT PROJECTS



Recovery & Restoration

- After the initial emergency response when public works played more of a supporting role, DPW's were charged with managing the recovery & restoration
- Large scale construction project – initial estimates were 50 miles of low pressure pipe needing to be replaced before resident and businesses could regain their gas services
- Estimates of as many as 220 construction crews working 24/7



Scope of Work

- Monitoring, tracking and documenting all reconstruction efforts, and safeguarding their vital infrastructure systems – specifically water, sewer, stormwater, roads and sidewalks
- Reduce municipal burden, ease the way for construction crews, and get residents and businesses restored sooner!

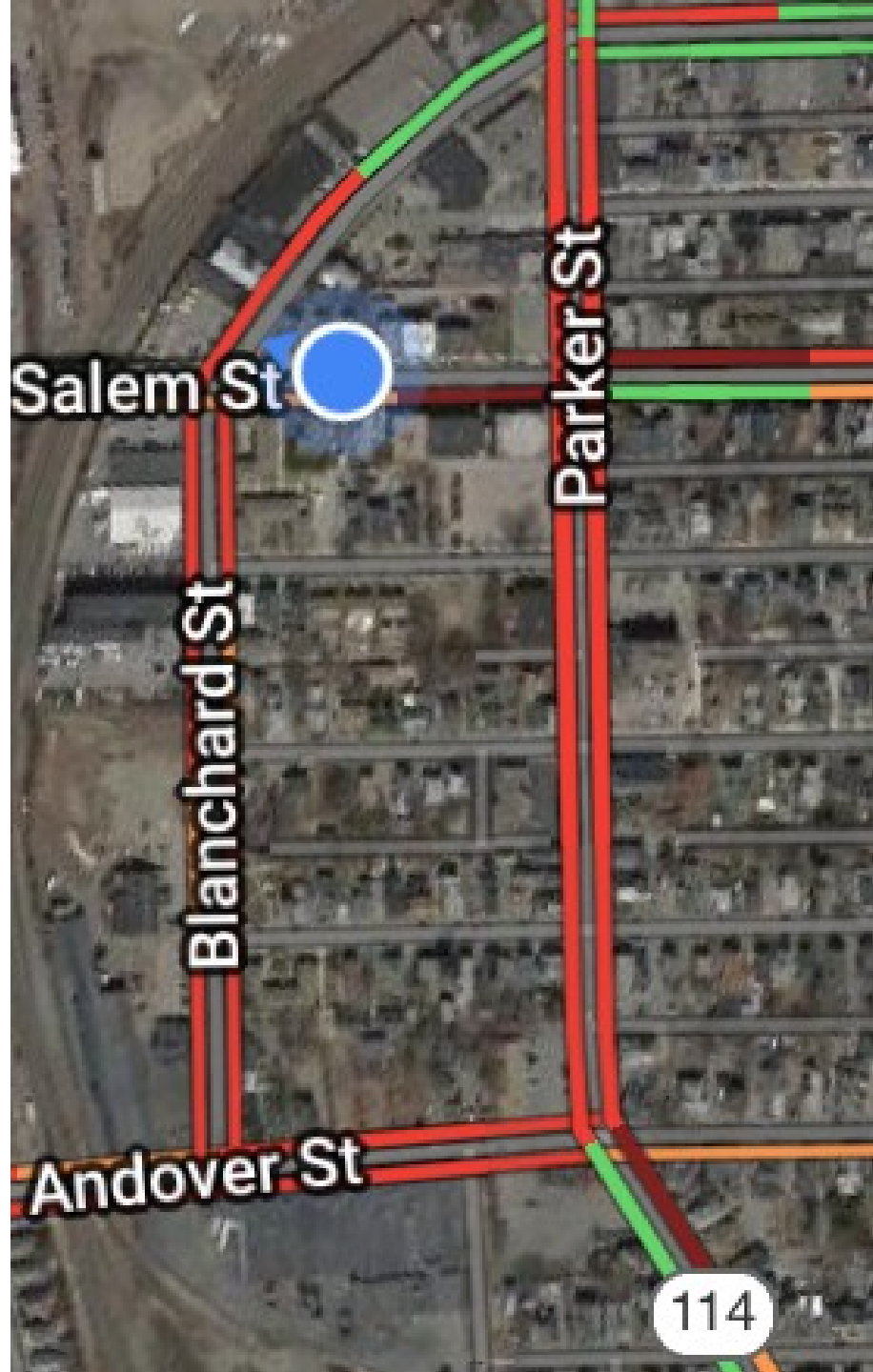


Challenges

- School bus routes
- Leaf collection
- Traffic management
- Parking
- Trash collection - logistics of collecting trash when there are 200 crews works in the streets
- Temporary shelters – Setting up and also breaking down
- Conflicts with existing capital projects
- Political Aspect
- Keeping up with markouts - Staying ahead of work



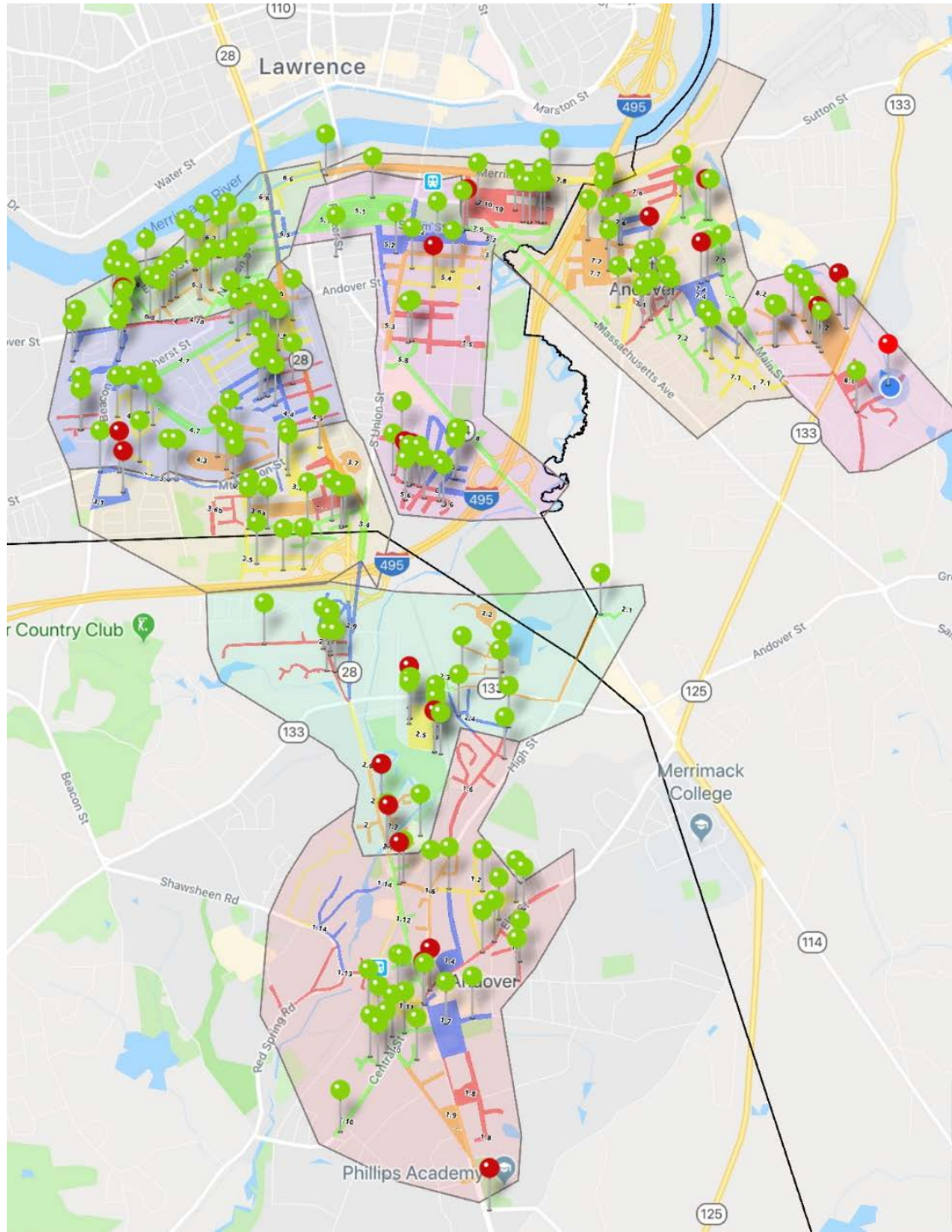




Communication

Needed 24/7 real and accurate information





Communication

- Daily Meeting every morning at 9:30am – specific to the utility work
- Conference call on weekend days
- Information was disseminated to crews and Managers and Mayor
- Daily Briefing at 4pm with Governor on what had occurred that day and what was happening the next day concerning the entire operation.
- Daily communication also helped manage differences in community impact



Zone #1 Daily Schedule - Friday 10/26

Segment	Company / Contractor	FLL	Inspector/ Coordinator	Crew Lead	# of personnel	Type Of Work	Job Type	Project ID	JOB ORDER #	ADDRESS	TOWN	Welder (Y/N)	DTL Need	DTL #	Daily Services Planned	Daily Services Complete	Daily Footage Planned	Daily Footage Installed	Daily Main Gassed	Notes:
1.5	RHWhite - MA	Jacob Anstead	Dan Lawlis	Joe DiCotto	4	service	557	18-55612		High St south of Harding	Andover	n	y-h	1	1					partial lane restrictions
1.5	RHWhite - MA	Jacob Anstead	Paul Rudnicki	Ron Lee	4	service	557	18-55612		High St south of Harding	Andover	n	y-h	1	1					
1.5	RHWhite - MA	Jacob Anstead	Charles Conn	Shawn James	4	service	565	18-55612		High St south of Harding	Andover	n	y-h	1	1					
1.5	RHWhite - MA	Jacob Anstead	Robert Seeburger	Toby Jolin	4	service	565	18-55612		High St south of Harding	Andover	n	y-m	1	1					
1.5	RHWhite - MA	Jacob Anstead	Brett Cramblett	Jose Pimental	4	service	565	18-55612		High St south of Harding	Andover	n	y-m	1	1					
1.5	RHWhite - MA	Jacob Anstead	Mark Schmidt	Jason Poulin	3	service	565	18-55612		High St south of Harding	Andover	n	n	0	1					partial lane restrictions
1.5	RHWhite - MA	Jacob Anstead	Roy Sorrell	Patrick Mungovan	4	service	565	18-55612		High St south of Harding	Andover	n	n	0	1					
1.5	Meade - IN	Jacob Anstead	Matt Staley	Dalton Addis	3	service	565	18-55612		High St south of Harding	Andover	n	y-h		1					
1.5	Meade - IN	Jacob Anstead	Jason Visiay	Victor Disantiago	4	service	565	18-55612		High St south of Harding	Andover	n	n	0	1					prepping services
1.5	Meade - IN	Jacob Anstead	Brandon Smith	Jeremy Lungsoftr	3	service	565	18-55612		High St south of Harding	Andover	n	n	0	1					
1.5	Meade - IN	Jacob Anstead	Tim Gus	Dan Poerter	3	service	565	18-55612		High St south of Harding	Andover	n	n	0	1					
1.5	Meade - IN	Jacob Anstead	Jim Dretzka	George Rios	4	service	565	18-55612		High St south of Harding	Andover	n	n	0	1					
1.5	Meade - IN	Jacob Anstead	Tim Kirchner	Ryan Blight	3	service	565	18-55612		High St south of Harding	Andover	n	n	0	1					
1.5	Meade - IN	Jacob Anstead	Dave Bober	Ryan Dextre	3	service	565	18-55612		High St south of Harding	Andover	n	n	0	1					
1.5	Meade - IN	Jacob Anstead	Jeff Artiaga	Randy Stedemann	3	service	565	18-55612		High St south of Harding	Andover	n	n	0	1					
1.9	NPL - MA	Jay Zsembik	Steve Feldner	Joe Routhier	5	mainline	557	18-55619	18-0843138-00	School and Main	Andover	n	y-h	1						partial lane restrictions
1.9	NPL - MA	Jay Zsembik	Mike Plokering	Eben Wood	5	mainline	557	18-55619	18-0843138-00	School and Main	Andover	n	y-m	1						crews working on uprate
1.9	NPL - MA	Jay Zsembik	Perry Grivanos	Dan Grabowelc	4	service	565	18-55619		School and Main	Andover	n	y-h	1	1					
1.9	NPL - MA	Jay Zsembik	John Snyder	Tony Madina	4	service	565	18-55619		School and Main	Andover	n	y-h	1	1					
1.9	NPL - MA	Jay Zsembik	Jeff Large	Jim Degray	4	service	565	18-55619		School and Main	Andover	n	y-h	1	1					
1.9	NPL - MA	Don Crum	Jeff Moolosky	Will Carballo	5	service	565	18-55619		School and Main	Andover	n	n	0	1					no parking signs posted on main st
1.9	NPL - MA	Don Crum	Jeff Seaman	James Kane	5	service	565	18-55619		School and Main	Andover	n	y-h	1	1					crews working on uprate
1.9	NPL - MA	Don Crum	Brian Kosis	Jon Bergeron	4	service	565	18-55619		School and Main	Andover	n	n	0	1					
1.9	NPL - MA	Don Crum	Rich Cutler	Eris Vega	4	service	557	18-55619		School and Main	Andover	n	n	0	1					
1.9	NPL - MA	Don Crum	Dave Silvka	Auther Rhodes	5	service	557	18-55619		School and Main	Andover	n	n	0	1					
1.9	NPL - MA	Don Crum	Deb Armstrong	Ryan Goss	4	service	557	18-55619		School and Main	Andover	n	y-h	1	1					
1.13	Miller Pipeline - OH	Mark Wright	Kelth Mourdy	Mark Stepowski	4	service	565	18-55625		Cuba	Andover	n	y-h	2	2					partial lane restrictions
1.13	Miller Pipeline - OH	Mark Wright	Jarred Zeigler	Sepp Newsom	4	service	565	18-55625		Cuba	Andover	n	y-h	2	2					crews working on installing services
1.13	Miller Pipeline - OH	Mark Wright	Jim Birchfield	Kyle Hunt	4	service	565	18-55625		Cuba	Andover	n	y-h	1	2					
1.13	Miller Pipeline - OH	Mark Wright	Matt Brozka	Jason Smith	4	service	565	18-55625		Cuba	Andover	n	n	0	2					partial lane restrictions
1.13	Miller Pipeline - OH	Mark Wright	Doug Patten	Tim Brewer	4	service	565	18-55625		Cuba	Andover	n	n	0	2					
1.12	Miller Pipeline - OH	Mark Wright	Doug Patten	Scott Meagrow	5	service	565	18-55624		Pearson	Andover	n	y-h	1	2					
1.12	Miller Pipeline - OH	Mark Wright	Anthony Gesito	Dan Strock	4	service	565	18-55624		Lewis	Andover	n	y-h	1	2					
1.12	Miller Pipeline - OH	Mark Wright	Shane Wilson	Deitzel Blair	4	cleanup				Cleanup	Andover	n	n	0	0					partial lane restrictions
1.13	Miller Pipeline - OH	Mark Wright	Anthony Gesito	Ian Stipes	4	cleanup				Cleanup	Andover	n	n	0	0					
1.14	Miller Pipeline - OH	Mark Wright	Rick Saraney	Anthony Brokaw	4	cleanup				Cleanup	Andover	n	n	0	0					
					143									19	38	0	0	0		

Construction Night Work Schedule (LAW - No Night Work 10/28/18, AND/NAN - No Night Work 10/31/18)

Updated: 10:20AM 10/26/2018
Total Crews: 33
Total Areas: 5

Town	Municipality	Status	Approved	Municipality	Project Manager	Zone	Project	Nature of Work	Crews	Start Work	Started	Finish Work	Finished	MassDOT Streets	Local Streets	Police Detail	MassDOT	DPW	Map	Notes
ANDOVER	Crews: 18 Areas Worked: 3	In Progress	Approved	Andover	Gill	1	1.7,1.8,1.9	Uprate prep	5	10/15/2018	✓	10/27/2018			South Main St	X	X	X	X	Officer Ota requested that we work be completed at night, 7:00pm to 5:00am
		In Progress	Approved	Andover	Gill	1	1.12	Uprate Prep	7	10/15/2018	✓	10/27/2018			North Main St	X	X	X	X	Officer Ota requested that we work be completed at night, 7:00pm to 5:00am
		In Progress	Approved	Andover	Holman	2	2.6,2.7,2.9	Installing Main	6	10/8/2018	✓	10/27/2018		State Road 28N		X	X	X	X	
LAWRENCE	Crews: 3 Areas Worked: 1	In Progress	Approved	Lawrence	Green	6	6.5	Installing Main Installing Services	3	10/22/2018	✓	10/27/2018		State Road 28N	Intersection of Wolcott Avenue and South Broadway(B Wolcott Avenue) Intersection of Salem and South Broadway	X	X	X	X	Inserting Main through existing CI, on Salem and South Broadway, tie in mainline at the intersection.
NORTH ANDOVER	Crews: 12 Areas Worked: 1	In Progress	Approved	North Andover	Morse	7	7.5,7.8,7.9	Installing Main	12	10/21/2018	✓	10/28/2018			Herrick, Merimack,Ashland,Waverly, Massachusetts, Main	X	X	X	X	

THE IMPACT

Andover, Lawrence, and North Andover staff accomplished something unprecedented with the help and support of emergency responders, construction crews, and government agencies:

57 Miles
of gas pipeline was
replaced or retested
(44 and 13)

in the course of

5.5 Weeks

to ensure

5,000+ Households
could return to some form of
normalcy and have gas service again

To ensure the immediate and long term success of this project,
Environmental Partners:

Oversaw
more than 200
construction crews daily

Protected
municipal infrastructure
in three communities

Communicated
progress and challenges
in real time

Documented
replacements, repairs,
and damage

The Path Forward

- The three communities, working with Environmental Partners, essentially created a 15 year Capital Improvement Plan in 5 weeks.
- 70 miles of road was disturbed in the three communities.
- Property restoration ongoing
- Total \$80 million settlement for the three communities (\$57.1 for paving)