



Town of Weston

Land Mobile Radio System Replacement

LMR Presentation Summary

- Recommend Purchasing the Connecticut Land Mobile Radio System
- Initial System Cost: \$4,500,000
 - BOF & BOF Approval > Special Town Meeting
 - General Fund Reserves
- Project Contingency: 4% or \$180,000
 - Previously allocated radio improvement funds
- Annual System Cost: \$140,000
 - Suggest add to the Communications Center budget for FY25
- Initial Town Responsibilities (prior to system installation): \$124,000
 - Previously allocated radio improvement funds & Tower Fund
 - Facility improvements

In this presentation:

- Our current Land Mobile Radio system
- How Did We Evaluate Our Needs And Goals?
- Possible Solutions
- Projected Costs
 - Purchase & Installation Cost
 - Recurring Cost
- Conclusion

Our current Land Mobile Radio system

- Equipment & Infrastructure
 - Engineering and Installation Circa 2000
 - 15 Years Useful Life (Industry Standard)
 - Current infrastructure is no longer supported by manufacturer
 - Parts to maintain / repair system operational are no longer available

Dispatch Radio Console 2 Total



Portable Radio
132 Total



Mobile Radio
56 Total



TOWN OF WESTON LMR SYSTEM EXISTING ANTENNA LOCATIONS

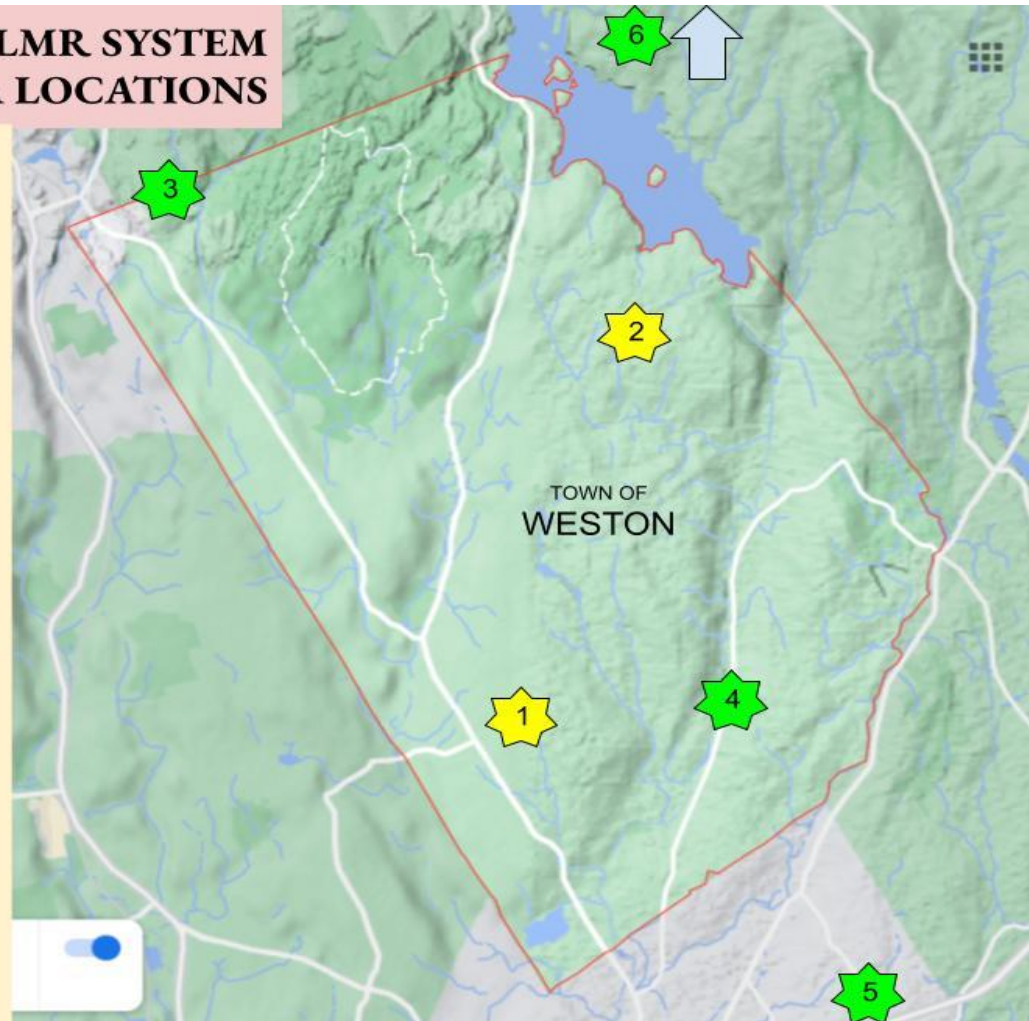
- 1 - TOWN HALL
- 2 - TRANSFER
STATION
- 3 - MEADOW RIDGE
- 4 - LYONS PLAIN FD
- 5 - BAYBERRY ROAD
- 6 - REDDING POLICE



= TRANSMITTER &
RECEIVER



= RECEIVE ONLY



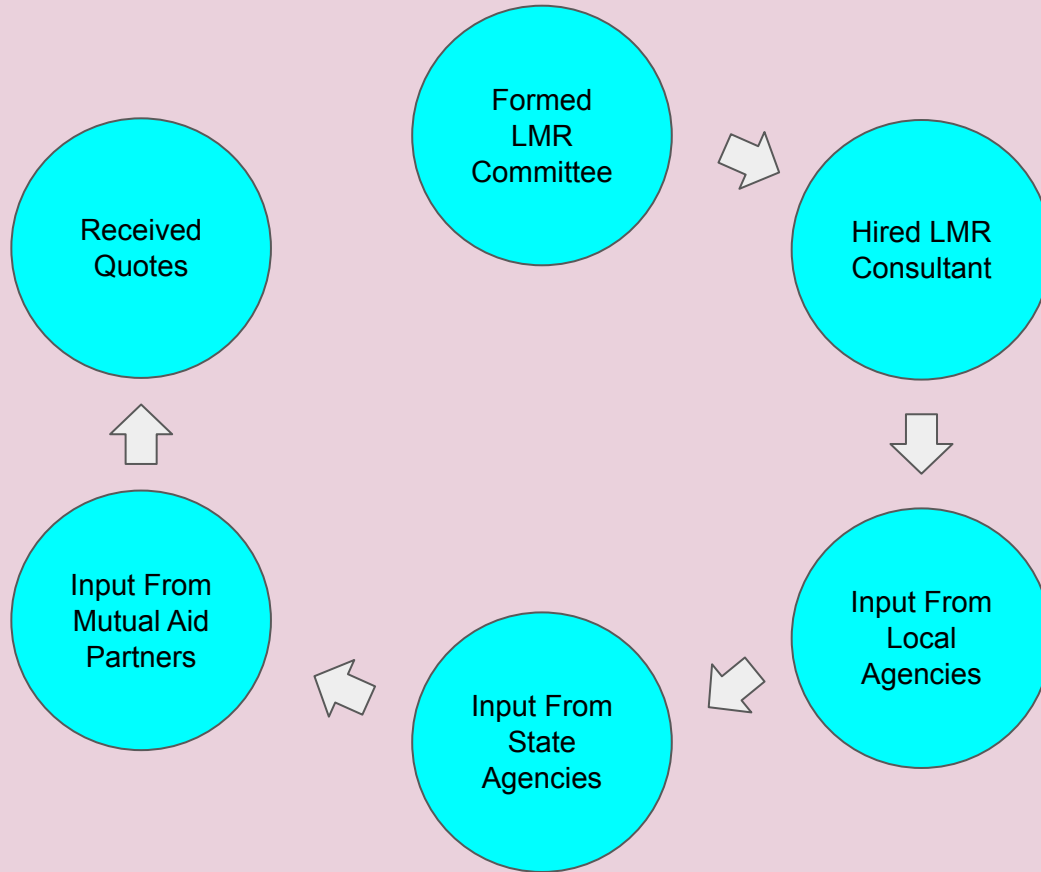
Our current Land Mobile Radio system

- What's Good?
 - Good coverage throughout our Town
 - Terrain Challenges
 - Original Installed Equipment High Quality
 - Outlasted system useful life
 - We have total control of the system

Our current Land Mobile Radio system

- What's Bad?
 - Replacement Parts Unavailable
 - Potential Extended Down Time
 - No Interoperability
 - Difficult to Communicate With Other Agencies
 - Lack of Current Technology

How Did We Evaluate Our Needs And Goals?



Possible Solutions

Analysis determined two feasible solutions:

- Solution #1 Replace current system with similar
- Solution #2 Replace current system with “State System”

Possible Solutions: #1 Replace current system with similar

Pros	Cons
Cheapest Option	Poor interoperability with Mutual Aid Partners
The Town owns system and is responsible for its own communications infrastructure	The Town owns system and is responsible for its own communications infrastructure
Town decides level of maintenance ie. Break and Fix verse Lifecycle support.	Not monitored by Connecticut Telecommunications Systems Unit.
	Coverage not as good as CLMRN

Possible Solutions: #2 Replace with CLMRN

Pros	Cons
Significantly improved mutual aid communications	State requires level of lifecycle maintenance coverage. Added cost
Provides enhanced converge. Higher frequency allows for better building penetration.	Town joins partnership with the State and must purchase approved equipment.
APCO Project 25 Compliant (Interoperability)	Higher Initial Cost
Lifecycle Support / Monitored radio health 24/7.	

Estimated System Costs: Installation Equipment & Labor

- UHF Conventional System Refresh
 - Budgetary Value \$3,349,791
- CLMRN Integration
 - Budgetary Value \$4,500,000
- Project Contingency
 - \$180,000 (4% Motorola Recommendation)

Estimated System Cost: Post Warranty Services

Solution #1 Refresh	Year 1	Year 2	Year 3	Year 4	Year 5
Maintenance Services	Included	\$98,703	\$101,664	\$104,714	\$107,853
Lifecycle Services	N/A	\$70,798	\$71,216	\$71,646	\$72,089
Total Services	Included	\$169,501	\$172,880	\$176,360	\$179,942

Solution #2 CLMRN	Year 1	Year 2	Year 3	Year 4	Year 5
Maintenance Services	Included	\$98,970	\$103,641	\$108,550	\$113,712
Lifecycle Services	N/A	\$39,994	\$40,725	\$41,485	\$42,276
Total Services	Included	\$138,964	\$144,366	\$150,035	\$155,988

Estimated System Cost: Town Responsibilities

Fiber Optic Line	Year 1	Year 2	Year 3	Year 4	Year 5
Frontier Estimate 5 Years No Increase	\$5,688	\$5,688	\$5,688	\$5,688	\$5,688

Item	Price
New Boiler in Firehouse / Remove Hot Water Pipes	\$96,000
New Roof On Godfrey Tower Shelter	\$5,500
New HVAC Heat Pump Norfield Shelter	\$12,500
New Security Cage Station #2 Attic	\$2,500
Facility Improvements Norfield Tower Shelter	\$7,500

Grant / Bond Applications

- Congressionally Directed Spending - \$1,000,000
 - Application Submitted March 2023
 - Based upon successful Wilton application previous year
 - Positive feedback from Congressman Himes' Office
- Connecticut Bond Council - \$509,286
 - Application Submitted December 2022
 - Based upon price of Radio Console
 - Positive feedback from CT Office of Policy & Management

Approvals Process / Dates

- 4/19/23 - Presentation to joint BOF & BOS Special Meeting
- 4/19/23 - BOS vote to approve.
- 5/1/23 - BOF vote to approve
- 5/4/23 - BOS Vote to hold Special Town Meeting
- 6/7/23 - Vote to approve at Special Town Meeting

Recommendation To Move Forward With CLMRN

Why spend \$1M more? Is it really worth it?

- Increased level of safety
- Wide coverage area: Weston, Wilton, Westport, Fairfield & Norwalk
- Allows interoperability between units in the field with other agencies
- Considerable upgrade to DPW & ACO communication capabilities
- Allows for future system enhancements
- The system is APCO P25 compliant (Interoperability)
- State supervision and maintenance of system with 24/7 monitoring by CTS