

## Land-Mobile Radio Project

Board of Public Utilities  
September 26, 2016

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## Deficiencies of Existing System

- Lack of coverage
- Unreliable – frequent failures of radios and dispatch consoles
- Obsolete system
  - Spare parts not available
  - No manufacturer support

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## Objectives

- Implement new Land Mobile Radio system for effective communications between Utilities Dispatch and RPU field crews:
  - Improved portable coverage
  - Flexible infrastructure
  - Improve day-to-day operations
  - Dependable communications for emergency operations

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## New State-of-the-Art System

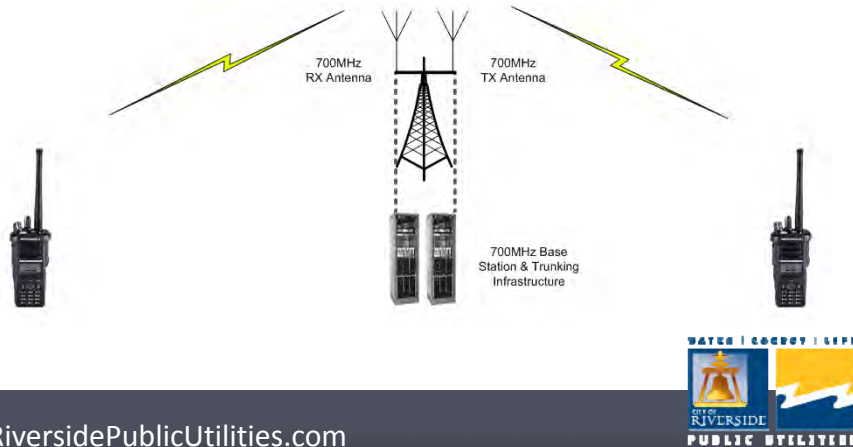
- Motorola system
  - 170 portable radio units
  - 100 mobile radio units
- Follows Project 25 public safety standard
- Operates in the 700 MHz frequency band



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## Diagram of New System

Fewer Points of Failure = Greater Reliability



## Benefits

- Excellent handheld radio coverage
- Multiple talk paths supports additional city users
- Individual calls, group calls, caller ID
- Over The Air Programming
- Encryption protects sensitive communications
- Highly reliable and fault tolerant
- Room for future growth

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## Enhanced Safety / Emergency Response Features

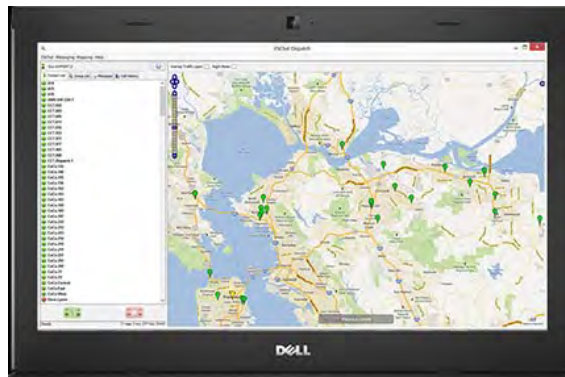
- Lone Worker/Man Down features
- GPS improves safety and system restoration times
- Compatible with City of Riverside Police Department radios and the County of Riverside
- CITY-WIDE talk group ensures communications during emergencies/disasters

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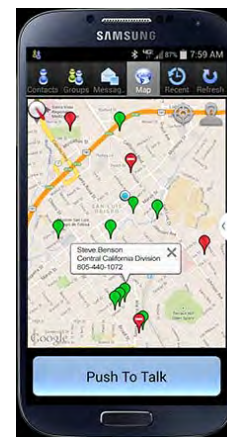


## User Flexibility

Windows Workstation



Smart Phone



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## Project Schedule

- **September 2016**
  - Board approval for budget and award contract to selected vendor
- **October-December 2016**
  - Install support infrastructure
  - Factory Acceptance Testing / Site Acceptance Testing
- **January-February 2017**
  - Install and integrate new system
  - End user training
  - Complete system as-built records

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## Project Budget Breakdown

Work Order Breakdown	Sub-Total	Percent of Total
Motorola Solutions, Inc. Agreement	\$2,479,852	83%
RPU In-House Labor and Misc.	\$520,148	17%
<b>TOTAL</b>	<b>\$3,000,000</b>	<b>100%</b>

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# Recommendations

That the Board of Public Utilities:

1. Approve the Communications System Agreement from the Design Build Proposal No. 1558 with Motorola Solutions, Inc., of San Diego, CA, for the Land Mobile Radio Project for \$2,479,852; and
2. Approve the capital expenditure of \$3,000,000 for Work Order No. 1524282, which includes all costs associated with the Land-Mobile Radio Project, including the equipment, installation, configuration, testing, commissioning, and training.

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