

Onondaga County Interoperable Communication System

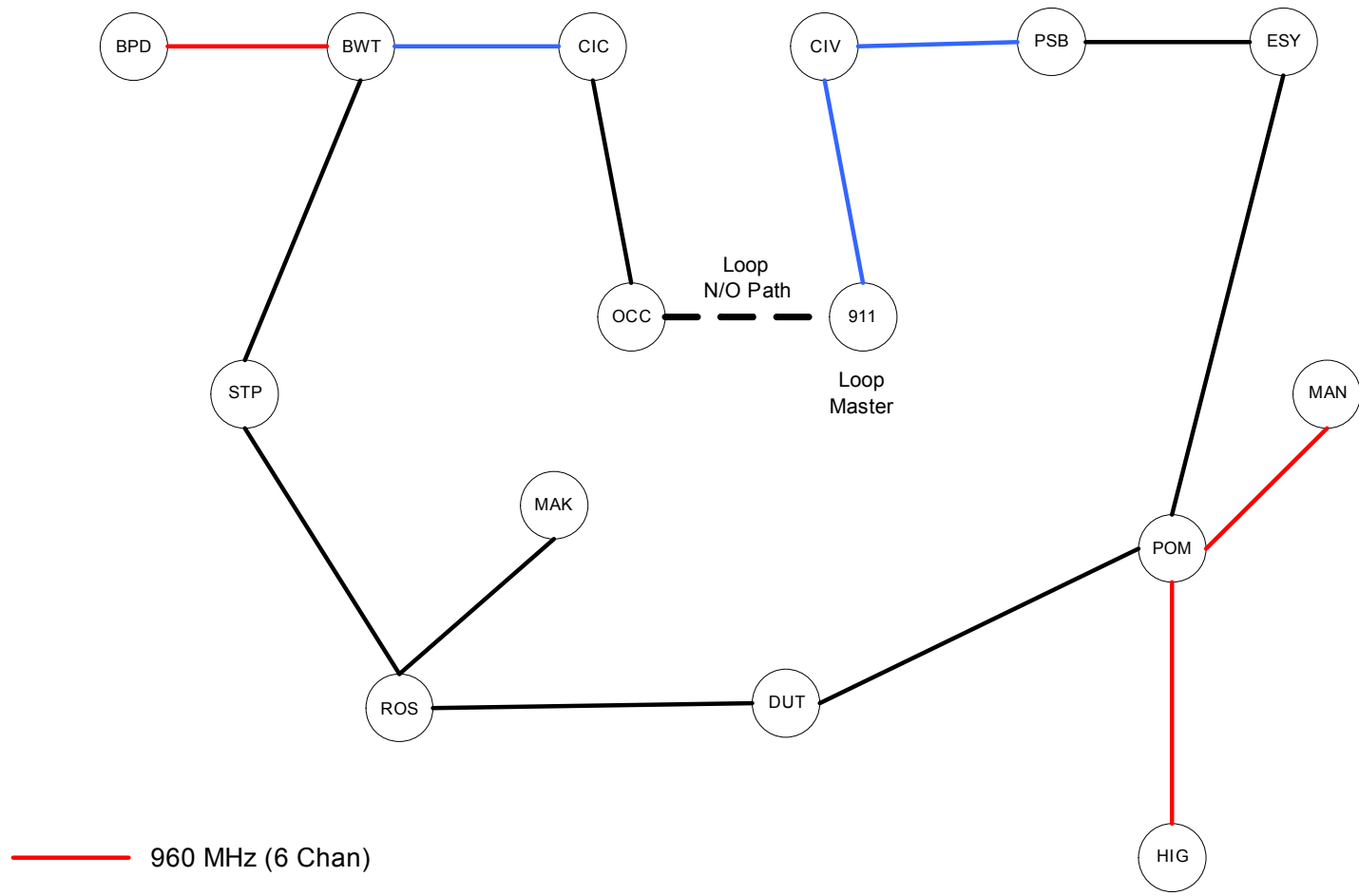
***A Consortium of Public Safety
First Responders in the County of
Onondaga and the City of Syracuse who
have agreed to work towards a common
communication system that serves
everyone.***

Onondaga County Interoperable Communication System

- Microwave Existing Situation
 - Obsolete – over 30 years old
 - Cannot Support New Mobile Data Terminal System
 - Lack of Spare Parts
 - Cannot support IP Based Protocol
 - Lack of Sufficient Bandwidth to Support Future Technologies
 - Too Frequent MW System Failures
 - City/County Agencies Rely Heavily on this System

Onondaga County Interoperable Communication System

- **Microwave**
 - County Controlled
 - Dedicated to Public Safety Users
 - Proven Reliable for over 30 years
 - Ongoing Maintenance Cost Only
 - System will support IP Connectivity
- **Wire/Fiber Connectivity**
 - Typically Controlled by Others
 - Expensive to run to Radio Sites
 - Susceptible to Damage for Buried or Aerial
 - May have “Last Mile” Application
 - Ongoing Operating and Maintenance Cost
- **Hybrid – Microwave and Fiber Optics**

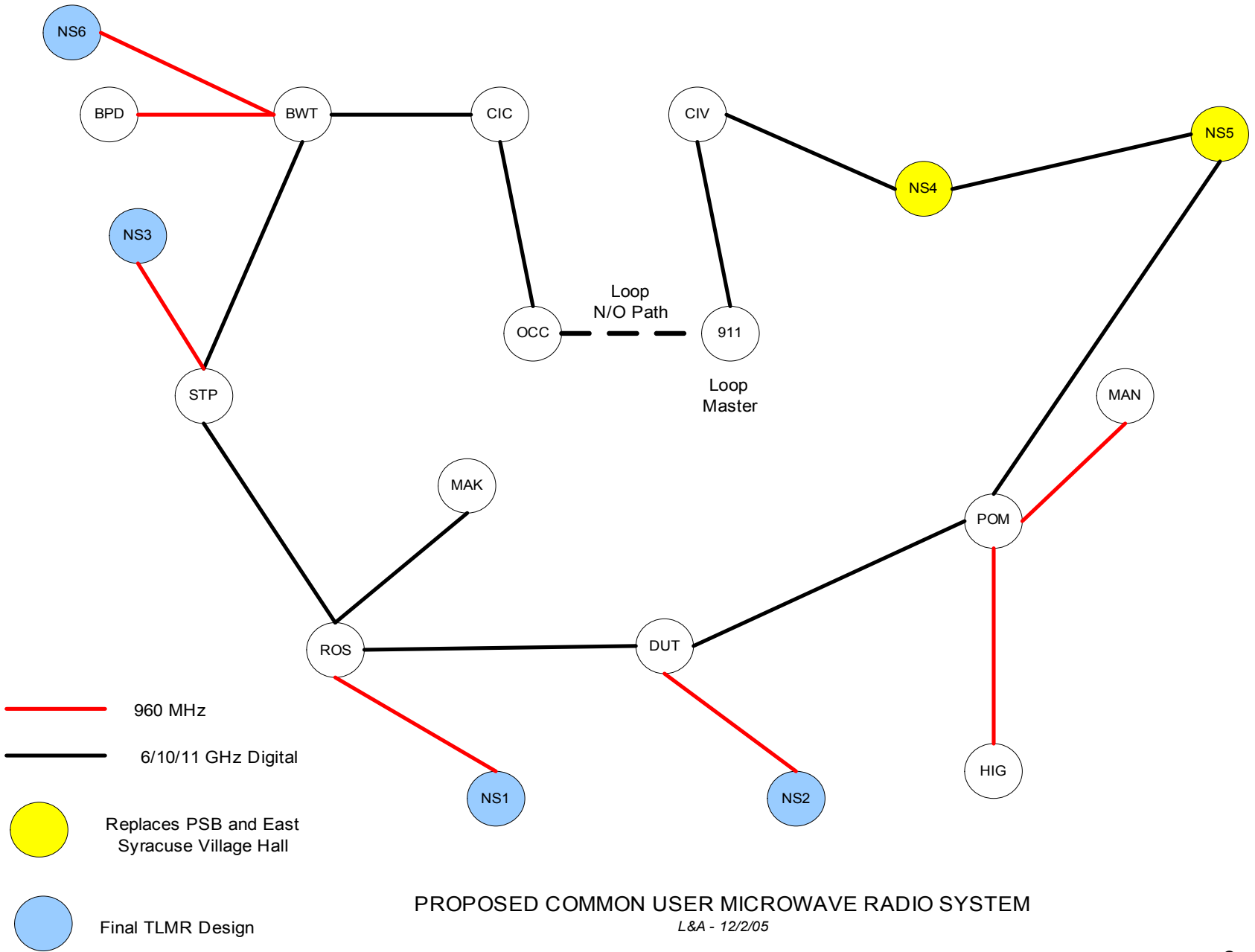


- 960 MHz (6 Chan)
- 2 GHz (132 Chan)
- 6 GHz (600 Chan)

EXISTING COMMON USER MICROWAVE RADIO SYSTEM
L&A - 11/22/05

Phase 1

- Microwave Replacement Network
 - Supports Existing Analog and Future Digital Radio
 - Plus Future Video-Data-Image
 - Tower Modifications
- Equipment Shelters w/Generators
- Identify Necessary Fill-In Areas for IMPROVED LMR Coverage
 - Final Sites Determined during Phase 2
- Submission to County Legislature/Approval
- Develop Phasing Plan to Meet Budget Cycles
- Procurement Process
- Implementation 4/06 – 4/07



Proposed Site Changes

- Baldwinsville Water Tank – New Tower
- Relocate 2 Sites (Planned)
 - Public Safety Building to Vinette Towers
 - East Syracuse to OCWA Reservoir T/O Man.

WQDY448

- **New County** UHF Trunked License
- Sites for Countywide Coverage
 - Establishes Footprint at FCC/Canada
 - Modify for ACTUAL Sites Prior to Construction
- 109 Frequencies
 - 56 Repeater
 - 53 Mobile/Portable
 - Narrowband Operation (Mandated by 2013)
- Construction Deadline 11/08
 - Must Build or Return the Frequencies