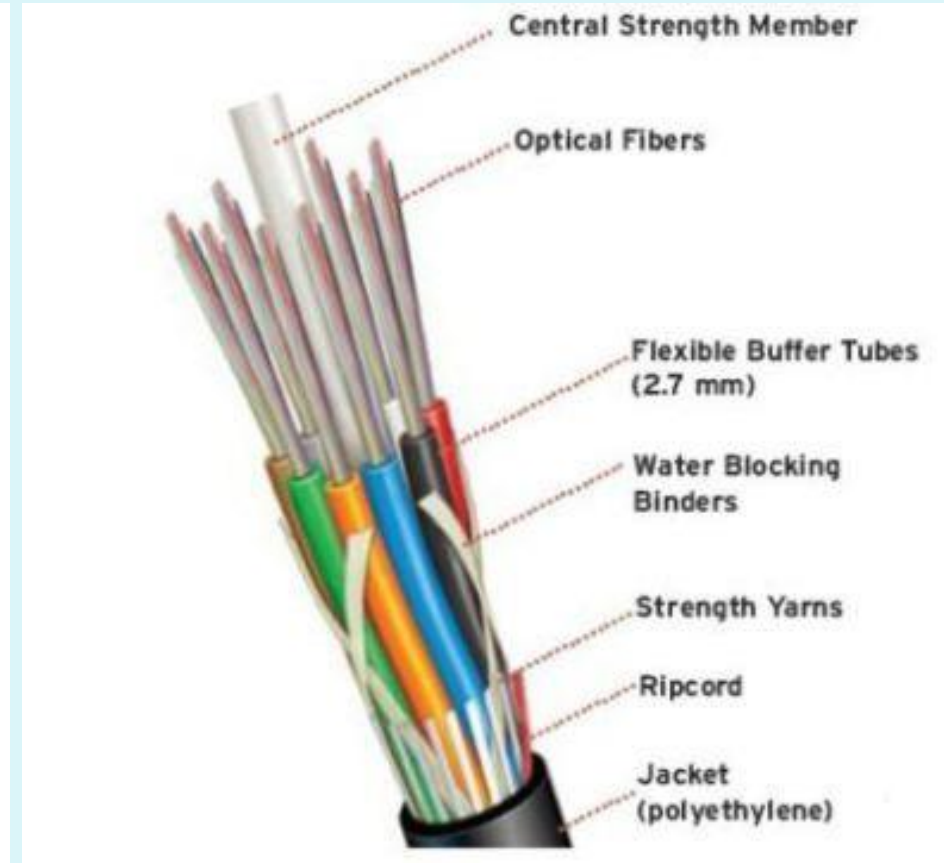


City of Milwaukee  
DOA - ITMD  
March, 2014

# Public Safety Communications Program



# Capital Program Funding Elements

- Copper cable – small projects for remote facility connections
- Fiber optic cable –
  - extend network: Housing Authority, libraries, water booster stations, remaining City buildings
  - network redundancies: critical facilities
- Phone hardware – upgrade, maintain phone system
- Network hardware – upgrade, maintain core networks

# 2014-2015 Capital Projects

- S 27<sup>th</sup> St construction project - avoidance and diverse paths
- Zoo Interchange project - avoidance and diverse paths
- Stadium Freeway project – avoidance and diverse paths
- I-43/94 Howard Ave to Valley Bridge project – avoidance and diverse paths

# 2014-2015 Capital Projects - cont

- Coordinated construction avoidance and system expansion
  - Water booster station at 79<sup>th</sup> & Capitol



# 2014-2015 Capital Projects - cont

- Planned sites to extend fiber network
  - Water Street bridge house
  - Broadway Street bridge house
  - McKinley Street bridge house
  - 4<sup>th</sup> & Highland parking structure
  - MacArthur Square parking structure
  - Bay View Library
  - East Library
  - Westlawn Gardens

# 2013 HACM Conversion Cost Savings

- Converted 17 HACM sites from AT&T to City facilities
  - Reduction of \$52,100 in annual expenses to AT&T
  - \$32,700 in annual savings to HACM
  - \$19,400 paid for City network services
  - Increase bandwidth from 1.5Mbps to 15-45Mbps
  - Use same copper cable that serves phone lines



# Cabling Condition

- Copper

- 556 Active repair tickets

- 2013 – 57 added, 14 closed
    - 2012 – 79 added, 69 closed
    - 2011 – 112 added, 33 closed
    - 2010 – 137 added, 70 closed

- Fiber

- 3 fibers with damage in need of repair

- 4 planned construction cuts in need of restoration

# Migration off of Copper Cable

- Copper migration strategy
  - Installation of remote phone gateways
  - Removal of drive standards
  - Wireless service for controls cabinets





# The need for diverse facilities - 2013

