# Summary of Proposed Award Fiber Optic Communications System Improvements Design

Presented to: Operational Planning & Infrastructure Committee

March 6, 2018



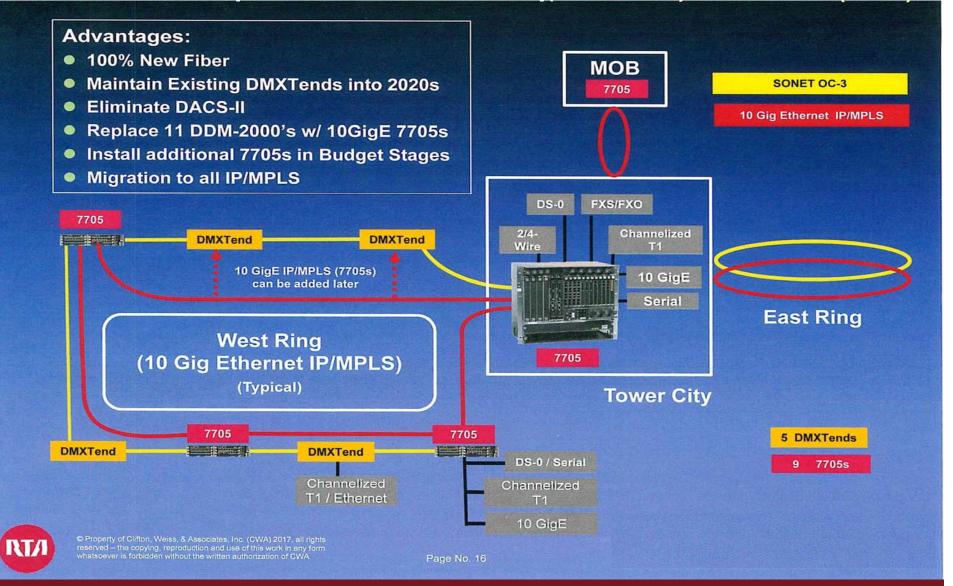
- o Current Fiber Optic Network:
  - Consists of several different generations of equipment and fiber optic cable
  - The fiber optic network provides communications transport services to many departments such as Operations, IT, Transit Police, Emergency Call Boxes, and Asset Configuration

- o Current Fiber Optic Network:
  - Mission critical for several GCRTA Departments
    - Safety Fire Alarm Panel communications
    - Security Cameras, 911 call boxes
    - o CTDS Consolidated Train Dispatch System
    - SCADA Supervisory Control & Data Acquisition



- o Current Fiber Optic Network:
  - Most of the fiber optic equipment has been in service since 1992 and is at the end of its life
  - Many components of the system have been discontinued and are no longer supported
  - Overhead fiber optic cable is severely deteriorated

#### Fiber Optic Communications System - Schematic



- o Project Objectives:
  - Assessment of the current fiber network and identification of GCRTA communication needs
  - Development of fiber optic technical specifications
  - Development of contract drawings
  - o Development of a fiber optic test plan



- o Deliverables:
  - o Fiber optic equipment technical specifications
  - Fiber optic cable; aerial and underground technical specifications
  - Fiber optic cable aerial and underground installation specifications
  - o Identification of all fiber splicing locations



- o Deliverables:
  - Construction documents for an IFB
    - Specify dedicated fibers for various functions within GCRTA such as signals, substations, IT and emergency call boxes
    - Documentation shall be provided for dark fibers installed for future expansion/redundancy



- o RFP issued October 2, 2017
- Accessed on the GCRTA web site by twentythree (23) interested parties
- o Four (4) firms proposed
- o Three (3) firms were interviewed
- A 10% DBE Goal was assigned



- o Evaluation Panel Members:
  - o Engineering
  - o Operations
  - Information Technology
  - o Procurement
  - Office of Business Development



- o Evaluation Criteria:
  - Project Manager
  - Assigned Staff
  - o Past Performance
  - o Project Approach
  - Location of Majority of Work
  - DBE Participation



- o Recommended Vendor:
  - Clifton, Weiss & Associates, Inc., located in Gwynedd Valley, PA, is a certified DBE, in association with sub-consultant SYSTRA, New York, New York
  - o The 10% DBE Goal will be exceeded utilizing:
    - Clifton, Weiss & Associates, Inc. (60%)
    - Denise's Flagging & Construction (3%)



- o Firm Experience:
  - Clifton, Weiss & Associates, Inc. has successfully completed projects for GCRTA, Ohio Turnpike, and the Chicago Transit Authority, among others
  - o First worked with GCRTA in 1992
  - Experienced/qualified staff



o Recommendation:

 Staff requests that the Operational Planning & Infrastructure Committee recommend award to Clifton, Weiss & Associates, Inc. for the Fiber Optic Communications System Improvements Design. The contract will be in an amount not to exceed \$799,572.00.

