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# City Council

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## CITY COUNCIL AGENDA ITEM NO. 15

**Meeting Date:** August 22, 2000

**Subject/Title:** Adoption of the Fiber Optics Master Plan (CIP Project No. 336-3107)

**Submitted by:** Engineering: J. Stevenson/S.Gronlund

**Approved by:** Jon Elam, City Manager

### **RECOMMENDATION**

Approval of a Resolution adopting the Advanced Technology (Fiber Optics) Master Plan (CIP Project No. 336-3107), and authorizing the City Engineer to make revisions to the specifications and details as necessary in the future.

### **PREVIOUS ACTION**

On May 11, 1999, by Resolution 99-121, the Council authorized the City Manager to enter into a professional services agreement with Media Connections Group for the design of an Advanced Technology (Fiber Optic) Master Plan.

On February 9, 1999, by Resolution No. 99-45, the City Council of Brentwood authorized the City Engineer to solicit request for proposals (RFP) from advanced technology firms to develop a citywide advanced technology master plan and to prepare standard plans, specifications, and testing criteria for a fiber optic system within the City of Brentwood. On February 23, 1999, by Ordinance No. 609 the City Council of Brentwood adopted the revision of the Municipal Code to include advanced technology systems to the existing subdivision section of said code.

### **BACKGROUND**

Beginning in February 1999, the Engineering Department required all new subdivisions to install and dedicate to the City of Brentwood two (2) conduits within the public streets, and to construct lateral conduits up to the private dwellings. The Engineering Department developed temporary specifications for material selection and placement.

When the City hired Media Connections Group (MCG), the first order of work was to review the temporary specifications for the fiber optic conduit substructure system. MCG recommended changes and the revised specifications were immediately forwarded to the local joint trench designers and installers.

MCG then worked on developing a citywide master plan for a fiber-optic communication system. Key

elements of the plan include a fiber optic master ring, interconnection from the ring to the individual residential developments, a set of rules for conduit placement within new developments, and supporting details such as joint trench construction, and termination of services in residences. On November 5, 1999, Media Connections Group submitted their report outlining the development of a Master Plan.

The City of Brentwood utilized the report as prepared by MCG and with input from the communication industry, i.e., manufacturers, suppliers, installers, designers, and electrical, gas, communication and cable providers, the Engineering Department has prepared a succinct Fiber Optic Master Plan. This plan is limited to the conduit system, but shall be expanded to include information for fiber optic cable and equipment once a provider(s) has executed a licensed franchisee agreement with the City of Brentwood.

Currently through new development and Capital Improvement Projects, portions of the fiber optic conduit system are being installed throughout the town. With future projects, the City anticipates linking all the conduits to form the Fiber Optic Master Ring as attached.

Attachments:

Resolution

Master Plan

### **RESOLUTION NO.**

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF BRENTWOOD ADOPTING THE ADVANCED TECHNOLOGY (FIBER OPTICS) MASTER PLAN (CIP PROJECT NO. 336-3107) AND AUTHORIZING THE CITY ENGINEER TO MAKE REVISIONS TO THE SPECIFICATIONS AND DETAILS AS NECESSARY IN THE FUTURE.

**WHEREAS**, on May 11, 1999, by Resolution 99-121, the Council authorized the City Manager to enter into a professional services agreement with Media Connections Group for the design of an Advanced Technology (Fiber Optic) Master Plan; and

**WHEREAS**, the key elements of the plan include a fiber optic master ring, interconnection from the ring to the individual residential developments, a set of rules for conduit placement within new developments, and supporting details such as joint trench construction, and termination of services in residences; and

**WHEREAS**, on November 5, 1999, Media Connections Group submitted their report outlining the development of the attached Master Plan.

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Brentwood hereby adopts the Advanced Technology (Fiber Optics) Master Plan (CIP Project No. 336-3107) and authorizes the City Engineer to make revisions to the specifications and details as necessary in the future.

**PASSED, APPROVED AND ADOPTED** by the City Council of the City of Brentwood at a regular meeting on the 22<sup>nd</sup> day of August 2000 by the following vote:

**AYES:**

**NOES:**

**ABSENT:**

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