

SECTION 02790
COMMUNICATION TRANSMISSION

PART 1 - GENERAL

1.1 SUMMARY:

A. Section Includes:

1. Communication and data transmission system and appurtenances.

B. Related Sections:

1. Section 02200 - Earthwork.
2. Section 02221 - Trenching, Backfilling, Compacting.
3. Distribution within the building: Division 16 sections.

1.2 SUBMITTALS:

A. Record Drawings:

1. At project closeout, submit record drawings of underground communication and data lines and products, in accordance with requirements of Section 01720.

1.3 QUALITY ASSURANCE:

A. Codes and Standards:

1. Conform to University of Colorado Telecommunications Department Standards provided as an Appendix in this volume and U.S. West Communications requirements and standards.

1.4 PROJECT CONDITIONS:

- A. Coordinate with and notify the University of Colorado Telecommunications Department, and aid in locating communication and data line locations for installation by them or their agent.**

PART 2- PRODUCTS

2.1 MATERIALS:

- A. Bedding: Select fill as specified in Section 02221.**
- B. Concrete: As specified in Division 3 sections.**

C. Encasement: PVC plastic pipe, ASTM D1785, Schedule 40, Type PVC 1120.

D. Other Materials: Comply with requirements of Sections 16010 and 16700 and referenced standards.

2.2 IDENTIFICATION:

A. Underground Type Plastic Line Marker:

1. Manufacturer's standard permanent, continuous-printed plastic tape with metallic core, intended for direct-burial service; not less than 6" wide x 4 mils thick. Provide green tape with black printing reading "CAUTION TELEPHONE/DATA LINE BURIED BELOW".

2. Provide identification markers of one of the following:

- a. Allen Systems, Inc.
- b. Emed Co., Inc.
- c. Seton Name Plate Corp.

PART 3 - EXECUTION

3.1 ENCASEMENT BEDDING:

A. Bed encasement pipe as specified in Section 02221 and as shown in standard bedding detail included with the University of Colorado at Colorado Springs Telecommunications Department Standards.

B. Other Materials: Comply with requirements of Sections 16010 and 16700 and referenced standards.

3.2 INSTALLATION OF IDENTIFICATION:

A. During backfilling and topsoiling of underground communications lines, install continuous underground plastic line markers, located directly over buried lines at 6" to 8" below finished grade.

END OF SECTION 02790