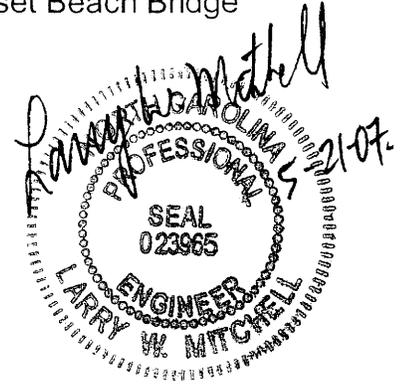


PROJECT SPECIAL PROVISIONS
Utility Construction



I. GENERAL CONSTRUCTION REQUIREMENTS:

Specifications:

The proposed utility construction shall meet the applicable requirements of the NC Department of Transportation's "Standard Specifications for Roads and Structures" dated July 2006, and the details as shown on the plans, as outlined in the following provisions, or as directed by the Engineer.

The Contractor shall submit his proposed method of anchoring to the Engineer for review and approval prior to any applicable water main construction. Such approval will not relieve the Contractor of his responsibility of properly anchoring the water mains.

Owner and Owner's Requirements:

The existing water utilities are owned by the The Town of Sunset Beach. The Contractor shall provide access for the owners' representatives to all phases of construction. The owners shall be notified two weeks prior to commencement of any work and one week prior to service interruption. Only authorized personnel of the owners shall operate valves in the existing water distribution or sewer collection systems.

Valve Markers:

Valve markers shall be located as indicated on plans and are incidental to valve installation. Markers shall be constructed of fiberglass (blue) marked with letters MV (main valve) and shall specify a telephone number to contact to report problems or to request water main locates.

Testing of Polyethylene (PE) pipe:

The testing procedure consist of initial expansion and test phase. During the initial expansion phase, the test section is pressurized to the test pressure and enough make-up liquid is added each hour for three (3) hours to return to test pressure. The test phase follows immediately and may be one (1), two (2) or three (3) hours. At the end of the test time, the test section is returned to test pressure by adding a measured amount of liquid. If the amount of make-up liquid added does not exceed the value below, leakage is not indicated.

Nominal PE Size (inches)	Make-Up Water Allowance (US Gallons/100 ft-pipe)		
	1-hour test	2-hour test	3-hour test
1 ¼	0.06	0.10	0.16
1 ½	0.07	0.10	0.17
8	0.5	1.0	1.5
10	0.8	1.3	2.1
12	1.1	2.3	3.4
13 3/8	1.2	2.5	3.7
14	1.4	2.8	4.2
16	1.7	3.3	5.0

II. COMPENSATION:

No direct payment will be made for utility construction work required by the preceding provisions, which are general requirements applying to utility construction and all of the requirements stated will be considered related incidental work

PROJECT SPECIAL PROVISIONS**UTILITIES BY OTHERS:**

General:

The following utility companies have facilities that will be in conflict with the construction of this project:

- A) Atlantic Telephone Membership Corporation – Telephone**
- B) Town of Sunset Beach – Water**
- C) Brunswick Electric Membership Corporation – Power**

The conflicting facilities of these concerns will be adjusted prior to the date of availability, unless otherwise noted and are therefore listed in these special provisions for the benefit of the Contractor. All utility work listed herein will be done by the utility owner or his Contractor. All utilities are shown on the plans from the best available information.

The Contractor's attention is directed to Article 105-8 of the Standard Specifications.

Utilities Requiring Adjustment:

A) Atlantic Telephone Membership Corporation (TMC) – Telephone

- See Utilities by Others Plans for Details. All work to be completed by June 1, 2007.
- Contact Mr. Scott Dutton @ 910-755-1702

B) Town of Sunset Beach – Water

- The Town of Sunset Beach is installing a 12" water main along the proposed –L- alignment from (–L- Sta. 26+54 to Sta. 51+80) and approximately 400 feet along Canal Drive. See Utilities by Others Plans. All work to be completed by date of availability.
- Contact Mr. Larry Crim @ 910-579-6297

C) Brunswick Electric Membership Corporation - Power

- See Utilities by Others Plans for Details. All work to be completed by June 1, 2007
- Contact Mr. Rodney Scruggs@ 910-754-4391