

North Texas Tollway Authority



Project name: NTTA-PGBT to DNT Extension

Start Date: May 2002

Location: Dallas North Tollway

Address: 5900 West Plano Parkway
Plano, Texas 75093

Project overview

The Owner required extension of its Fiber Optic network to the newly constructed George Bush Tollway. The Fiber network supports all IT functions and revenue generating systems along the active roadway. The project was segmented into three phases because of ongoing roadway construction.

ABLE solution

The scope of work for Phase 1 of this project was to extend two 144-strand fiber cables and one 72-strand fiber cable between Park and Parker via new underground conduit in the West shoulder of DNT. One of the 144-strand fiber cables passed directly from Park to Parker, while the other passed from Park to Parker while routing through MLP3. Additionally, 12 strands of NTTA's 36 strands of the NTTA/MCI jointly owned fiber cable was spliced and routed into MLP3.

The scope of work for Phase 2 of this project was to take an existing 144-strand fiber optic cable which routed along DNT and splice it onto a loop that traveled over MLP7 on PGBT, ultimately reversing back to DNT. The return run of fiber contained 6 strands that was used to support the Toll Plaza at the intersection of PGBT and Preston. Both of the 144-strand fiber cables were routed to a Fiber Hut at the intersection of DNT and PGBT. Additionally, a 24-strand fiber traveling along the DNT Northbound access road was cut and re-routed to the new Fiber

Hut. ABLe utilized the existing 24" conduit located near station 539 on the plan sheet for the purpose of routing the fiber from the South to North right-of-way of PGBT.

The scope of work for Phase 3 of the project was to extend the 144-strand fiber cables that were previously extended from Park to Parker of DNT during Phase 1 to the existing 144-strand fiber cables traveling Northward up DNT.

The project included:

- 65k feet of 144 SM Cable; OSP
- 7k feet of 72 SM Cable; OSP
- 1700 Fiber Optic Fusion Splices
- 2100 OTDR Fiber Optic Test

Product Solutions



CORNING

