Program Outline

Segment 1 – AT&T Facilities and Procedures
Morgan Herndon, Manager Outside Plant Engineering & Planning Design
Bardstown Road Louisville

Segment 2 – Underground Damage Prevention
Tim Vaughn
Director Regulatory and External Affairs
Kentucky 811
Network Overview
Simple Telephone Architecture

Digital Switch
Integrated Digital Terminal
Copper T1 Line

FDI

Digital Signal
Analog Signal
Central Office
Cables in Central Office Vault
Cables in Central Office Vault
Stainless Steel Splice Case/Fiber with Tag
Cable in Central Office Vault
Central Office Equipment
Central Office Plug-In Card Shelf
Battery Racks
Sidewalk Anchor
Types of Facilities
Fiber Cable
Copper Cable
Manhole Lid
Manhole Lid & Collar
Manhole Collars & Rings
Buried Cable Pedestal
Buried Cable Pedestals
Buried Cable Pedestals
Service Wire Pedestal
Cable & Innerduct Reels
Handholes
Aerial Attachments
Aerial Copper Splice Case
Aerial Fiber Splice
Pole Mounted Xbox
Pole Mounted Xbox
Small Pole Mounted Xbox
Small Pole Mounted Xbox
Pad Mounted Xbox
Hut & Equipment Rack
RT Cabinets, Xbox & Pedestals
Buried Cable Markers
Anchor Rods & Plates
Overhead converting to Underground (Lateral)
Installation Standards and Procedures

What are the steps and timing necessary for a relocation project?
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OVERVIEW Right of Way
-DOT provides proposed road relocation plans.

-Utilities utilize provided R/W for relocation.

-If R/W are not sufficient for relocation then utilities are forced to seek additional private easements from property owners.

-Acquisition of private easements is time consuming & expensive & not always successful.
What are the steps and timing necessary for a relocation project?

OVERVIEW Process
- Proposed relocation is submitted to DOT for permit.

- DOT utility coordination reviews all utility proposed relocation permit drawings for conflicts.

- Conflicts (if any) are resolved between utilities.

- Approved permits are issued for relocation construction.

- AT&T creates & issues internal construction prints to field crews.
What are the steps and timing necessary for a relocation project?

**OVERVIEW AT&T Construction**

- Proposed facilities are placed in field first.

- Existing services are cut over to new facilities.

- High speed services require customer release to cut over.

- Old facilities are removed or abandoned.
What are the steps and timing necessary for a relocation project?

AERIAL FACILITIES
- AT&T occupies the lowest position on aerial pole route.

- Aerial relocations are done from top down to maintain proper clearances between utilities.

- AT&T is last to begin aerial relocation work.
What are the steps and timing necessary for a relocation project?

UNDERGROUND FACILITIES

- Structure location approved by DOT once it has been reviewed for conflicts with other underground relocation proposals. (Gas, Water, MSD, etc.)

- Structure (duct run, manholes, etc.) must be complete before cable relocation can begin.

- Cable is pulled thru structure.
Maps and Symbols

Facility Maps
Typical Conventions

Blue Color – Aerial Facilities (Poles & Cables)
   BXXX-###  B for aerial cable, # is size of cable.
   BKMA-200 is an aerial 200 pair cable.

Brown Color – Buried Facilities (Cables, Pedestals & Hanholes)
   AXXX-###  A for buried cable, # is size of cable.
   ANTW-400 is a buried 400 pair cable.

Magenta Color – Underground Structure (Duct & Manholes)
   Need additional details for cables in underground.
Repair Procedures

Fiber Splicing
Line Truck with Bucket
Fiber Splicing Trailer
Fiber Splicing Trailer
Fiber Splice
Fiber Splice
Fiber Splice
Pole Bracing

Less than 5’ of undisturbed soil around pole may require bracing.
Pole Brace