

Boulder Valley
school district



*... Challenging students to achieve their creative,
academic and physical potential in
order to become responsible,
contributing citizens.*



Wide Area Network Project Information Technology Advisory Committee

June 27, 2007

WAN Project ITAC Update

ITAC Tasks From March 21 ITAC Meeting

- Develop Engineering RFP Two Options
 - 1) Engineer and Permit for All New Construction
 - 2) Engineering and Permitting of New Construction Less Available Existing Infrastructure
- Identify Existing Available Infrastructure
- Infrastructure Sub-committee Meeting Held on May 3, 2007, MTC Tasked With Existing Infrastructure Survey

Progress to Date

- MTC Completed Existing Infrastructure Survey
- Completed Draft RFP and Partial Completion of Attachments
- for ITAC Review

Existing Infrastructure Survey

- MTC and the City IT department reviewed existing documentation on available infrastructure
- MTC surveyed all existing available duct-banks and empty conduits
- All hand-holes and traffic manholes were inspected and documented for access and empty conduits

Existing Infrastructure Survey Data

- Survey identified 54,000 LF of spare conduit
- Most duct-banks had 3-5 spare conduits
- The City and The District are working towards an agreement to share one conduit

New Construction Design Data

- **New data from the detailed new construction route design**

- West Ring Backbone 82,584 LF
- West Ring Laterals 48,926 LF
- East Ring Backbone 136,234 LF
- East Ring Laterals 58,473 LF
- **Total New Construction 326,218 LF**

- **Adjustments**

- Detailed route survey
- CDOT ROW restrictions lifted
- Access to existing City conduits
- Shared engineering and construction of Jay Rd. with City Utility

Additional Design Data

West Ring

- **168 count fiber optic cable**
 - 20 fiber strands in new design reserved for City use
 - West ring design fills many gaps for the City
 - 4 fiber strands for NCAR/UCAR providing a redundant path for the network
 - Reduced cost of the 4.25 miles for the Jay Rd. build by cost sharing with the City

East Ring

- **144 count fiber optic cable**
 - Reduction in ring lengths due to CDOT's participation and detailed rout survey

RFP for Engineering and Permitting Approval

- RFP has been reduced to one option
- With 54,000 LF of conduit available there was no need to create a “Build All” option
- Draft RFP is ready to publish when the attachments are completed and the Districts procurement department makes the final review and adjustment
- Partial Attachment have been provided to ITAC