



November 4, 2008

To: Harry Roesch, ARC Project Coordinator
Appalachian Regional Commission
1666 Connecticut Avenue NW Suite 700
Washington, DC 20009-1068

From: Robert R. Byrd
P.O. Box 1709
Enka, NC 28728

Subject: ARC Progress Report for Contract # NC15697-07
Project title: Graham County Broadband Fiber Optic Extension

Dear Harry:

Attached herewith is a copy of the Southwestern Commission's 4th 120-day progress report for the Graham County Broadband Fiber Optic Extension contract. This report covers the contract period from June 26, 2008 through October 24, 2008. Under separate cover I am mailing you two hard copies of this report.

As you know the major focus of the ARC funds in this project is to support the provision of broadband technology infrastructure to the Graham County governmental offices. Significant progress has been made during this reporting period. The fiber deployment to the sites has been completed. Connections and hookups to the sites have been agreed to by the commissioners and a contract for termination is in process.

The Cherokee Preservation Foundation and the NC Rural Center are providing matching funding for the ARC award.

Roger Wiggins, the chief financial officer for the Southwestern Commission, will prepare a financial request which will be submitted separately.

The progress noted during this reporting period would not have been possible without the guidance and assistance provided by the Graham County officials, the BalsamWest FiberNet Corporation and WNC EdNET Technical Advisor and Planner, Leonard Winchester. The Southwestern Commission and the WRESA are grateful for this leadership and support.

Copies of this report are being provided to Olivia Collier, NC ARC Liaison, the Cherokee Preservation Foundation, and the NC Rural Center.

If you need additional information, please let me know.

Many thanks.

Cc: Bill Gibson
Roger Metcalf
Roger Wiggins
Olivia Collier
Susan Jenkins
Jan Webster
Leonard Winchester
Charles George

**Broadband Fiber Optic Extension for
Graham County Government, Public Services and
Private Businesses
Contract # NC-15697-07**

**Progress Report
June 26, 2008 – October 24, 2008**

**Submitted to:
Harry Roesch, ARC Project Coordinator
Appalachian Regional Commission
1666 Connecticut Avenue NW
Suite 700
Washington, DC 20009-1068**

**Olivia Collier, NC ARC Liaison Officer
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Submitted by:

**Bill Gibson, Executive Director
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ARC Progress Report Outline

- I. Background Information**
- II. Progress in Achieving Goals and Objectives**
- III. Major Focus for the Next Reporting Period**
- IV. Financial Request**
- V. Appendix A ~ Activity Log**
- VI. Appendix B ~ Termination Workslope**
- VII. Appendix C ~ Progress Report**

I. Background Information

The purpose of this project is to help provide broadband infrastructure and electronics to 10 Graham County governmental sites. The broadband infrastructure deployment includes placing underground fiber duct with handholes from Topton to the Robbinsville area. The work includes trenching, ditching, digging, boring soil, sawing rock, providing ducts, installing ducts, providing and installing handholes, providing fiber, inserting fiber into duct via blowing, pushing and pulling, interval fusion splicing and making connections. The equipment electronics includes the termination of the fiber at the user sites.

This project is matched with Cherokee Preservation Foundation and NC Rural Center funds and is a component of a regional WNC EdNET project which is designed to provide broadband connectivity to the education sites in the counties of Jackson, Macon, Clay, Cherokee, Swain and Graham. The WNC EdNET project includes public, Tribal, and Charter schools.

II. Progress in achieving project goals and objectives

The Project Goal is to “Develop and improve Appalachia’s Infrastructure to make the region economically competitive” (ARC Goal 3).

Strategies are: ARC Strategic objective 3.3 “Increase the accessibility and use of telecommunications technology” and NC Strategy 3.3.3 “Make strategic investments to enhance the availability and use of telecommunications technology.”

Performance measures include:

Outputs: Sufficient fiber optic cable and terminal equipment will be provided to connect Graham County public services and local business to the global economy

Outcomes: Broadband fiber-optic connectivity to all Graham County and Robbinsville government facilities and public services; and, “bridge” access for local business, commerce and industry

Leverage: Immediate leverage includes the \$700,000 grant (awarded 03/07) from the Cherokee Preservation Foundation. Future projected private investment is unknown. The converse is that without broadband access many new business prospects will ignore Graham County.

The project goal, strategies, outputs, outcomes and leverage are operationalized via major project activities which include:

- Sustaining a regional collaborative consisting of CEO’s and Technology Coordinators from each of the implementation partners. Periodic meetings will be called by the Project Director when collaborative decisions are needed. The

partners' representatives are the key players to insure quality implementation and sustainability of the project. Southwestern Commission and Western Region Education Service Alliance (WRESA) serve as management partners.

- Once funding is received, contracts will be finalized and the deployment of the infrastructure will begin and should be completed within a few months.
- The building of the underground transport infrastructure to Graham County participating sites is ready to begin when funding is secured. The planning, engineering, and elements of the deployment contractual agreement have been established.

Specific progress made during this reporting relative to each major activity is as follows:

Sustaining the regional WNC EdNET collaborative

Progress – The regional WNC EdNET collaborative structure is fully functioning. The Executive Committee, the Technology Coordinators and the Technology Application Committee (TAC) continue to conduct planning and implementation activities. The Southwestern Commission and WRESA continually interact with these groups.

Major events during this reporting period include:

- Selecting, procuring and deploying critical switching equipment and associated electronics
- Receiving wrong equipment and re-ordering correct equipment
- Installing correct switching – routing equipment
- Obtaining funding from CPFdn to help with technology application and student engagement
- Other activities are noted in the “WNC EdNET Activity Log” (Appendix A)

Contracts will be finalized and infrastructure deployment will begin

Progress – The project planners successfully finalized a deployment contract with a vendor who was approved through a formal bidding process. A contract for fiber termination in the county offices has been agreed to.

The building of the underground transport of the infrastructure to Graham County

Progress – This is the major activity of this ARC project and significant progress has been made:

1. Graham County Schools – all fiber deployment construction splicing and testing is complete. All schools have been connected to the central hub via Cisco switching/routing equipment.
2. County Government sites – all fiber deployment construction to the county office sites has been completed. This includes fiber splicing and testing.

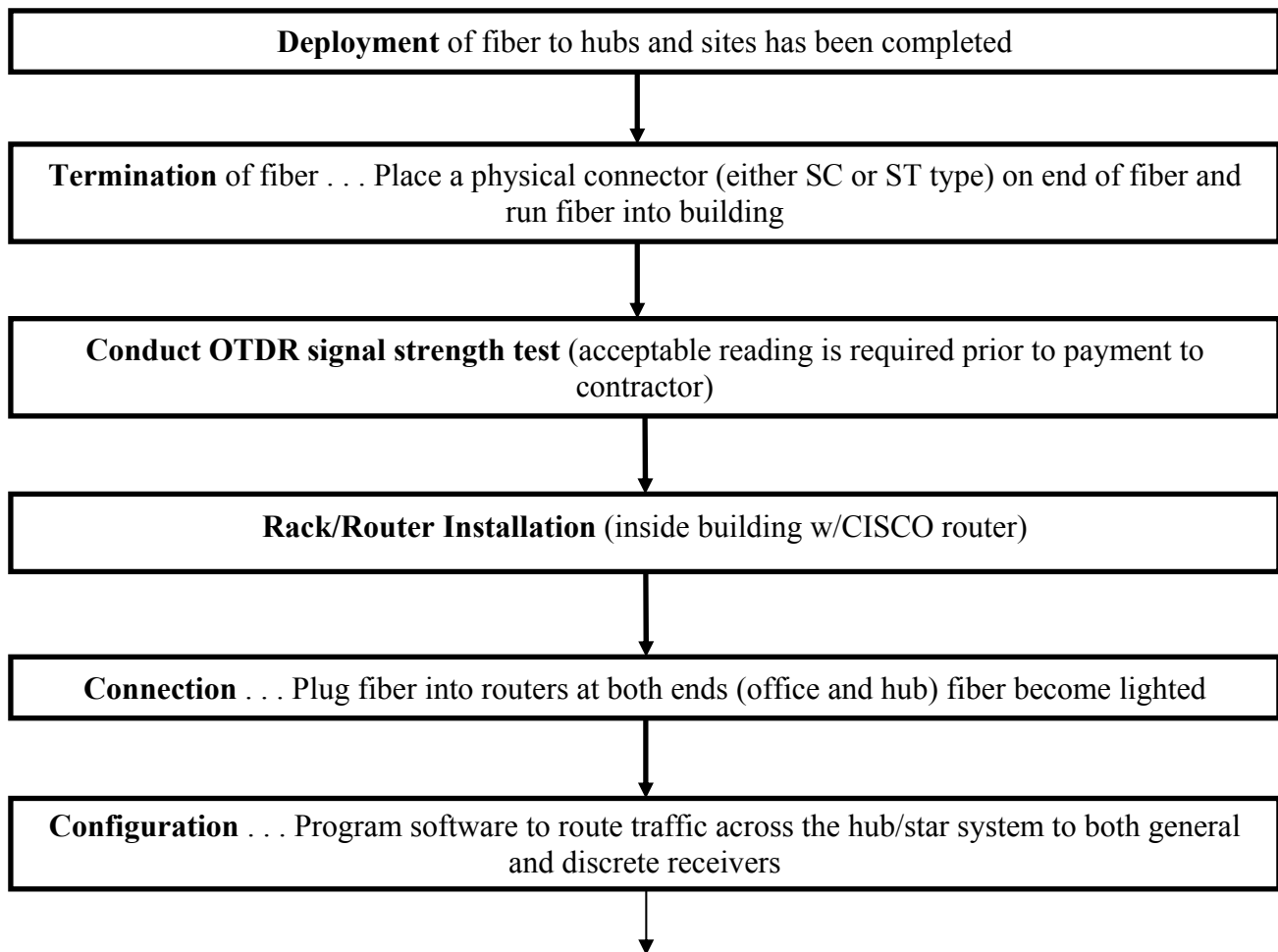
The Cisco switching/routing hub equipment has been purchased, delivered and had to be re-ordered because of specification differences.

Termination into the county office buildings is currently under contract (See Appendix B).

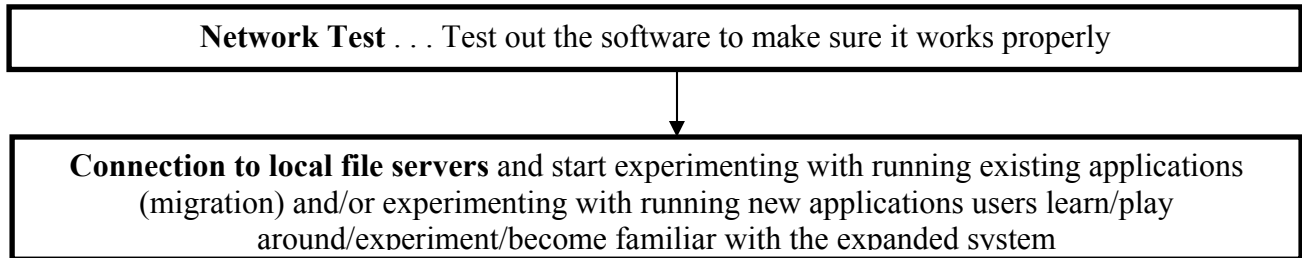
The actual termination involves several steps usually involving several different people who have to coordinate schedules – Figure 1 details – the termination process.

Figure 1

Sequence of Connections to Sites



(Figure 1 continued)



The equipment re-order process in effect delayed the final hook-up process. The configuration, networking, and connection to local servers steps are yet to be fully completed and are waiting on the contractors to complete the configuration and network testing. This should be done in the next few weeks.

In conclusion, substantial progress has been made in accomplishing the infrastructure deployment which is the major focus of this ARC project and the CPFdn and Rural Center Projects.

III. Major focus for the next reporting period.

The major activities for the next reporting period will include the completion of fiber termination at county government sites. The procurement and installation of switching electronics, back-up power and terminations should be completed during the next reporting period. Final inspection and testing should occur during next reporting period. A site visit is planned to each of the county government offices for the purpose of gathering data for the program review.

IV. Financial Request

(The Financial Report is being sent under separate cover from Roger Wiggins)

V. Appendix A
WNC EdNET Activity Log

Appendix A Activity Log

Date	Location	Participants/Representatives/Agencies	Brief Summary/Purpose/ Results/Outcomes
4/12/2005	WRESA	Bill Gibson (SEDPC), Mark Sorrells (Golden Leaf), Patricia Cabe (Golden Leaf), Dale Carroll (Advantage West), Billy Clarke (Golden Leaf), Roger Metcalf (WRESA), Bob Byrd (WRESA)	Meeting called by Bill Gibson to explore WRESA involvement/ assistance with Golden Leaf Technology effort in western most North Carolina schools. WRESA agreed to collect needs data and to follow up with school superintendents and technology coordinators.
4/20/2005	WRESA	6 Superintendents, WRESA Director	WRESA Director briefed superintendents on possible Golden LEAF initiative and needs data collection.
4/26/2005	SWCC	SWCC, WRESA, 6 School District Technology Coordinators, Balsam West, Drake Enterprises, WCU, Cherokee Tribe TCCC, NC DPI	Excellent information, sharing session. Presentation by SWCC and Balsam West group as per broadband history/efforts in 6 western counties.
4/26/2005	SWCC	WRESA, 6 School District Superintendents/Technology Representatives, NC DPI	WRESA Director asked for direction and planned next steps.
4/29/2005	Swain County High School	WRESA, 6 School Superintendents and Technology Coordinators, NC DPI	WRESA Director presents overview information on Golden Leaf effort and requests direction from superintendents who advise him to proceed with planning and development of a grant application.
5/12/2005	Franklin	WRESA, Clay County School Superintendent, Technology Coordinator	Discussed technical possibilities, background information and future direction.
5/18/2005	WRESA	WRESA, 6 Superintendents	WRESA Director updated superintendents on needs data.
5/20/2005	Jackson County	WRESA, Superintendents, Golden Leaf	WRESA Director and Golden LEAF staff discussed broadband collaborative issues and possibilities.
5/23/2005	WRESA	WRESA, Swain Technology Coordinator, Clay Technology Coordinator, Golden Leaf, ERC, Cherokee Preservation Foundation, E-N-C Authority	Information update, question and answer, multi-party involvement agreement for proposal development.
6/1/2005	Franklin	WRESA, D-Net, Clay County Schools	Multiple party information sharing.
6/1/2005	Franklin	WRESA, Clay County Schools	Planning, organization
6/7/2005	Murphy	Pat Cabe, Mark Sorrells, Roger Metcalf, Norman Oglesby, Marjorie Tucker	Information sharing - working on collaborative model.
6/8/2005	Webster	Pat Cabe, Mark Sorrells, Roger Metcalf, Norman Oglesby	SCC - Information sharing - working on collaborative model.
6/14/2005	Cherokee	Brandon Stevens, Bob Byrd, Charles George, Andy Gibson, Roger Metcalf	Information sharing - building a collaborative model.
6/21/2005	Cherokee	WRESA, EBCI Planner	Information sharing
6/21/2005	Cherokee	WRESA, EBCI School Superintendent	Information sharing, organization
7/8/2005	Asheville	WRESA and selected collaborative members	ENC Authority conference; Connectivity meeting - presentation.
7/15/2005	Bryson City	Andy Gibson, Leonard Winchester, Bob Byrd, Roger Metcalf, Mark Sorrells	Update - Review - Setting dates
7/15/2005	Robbinsville	Mike Edwards, Bob Byrd, Roger Metcalf	Discussion of Graham's needs in broadband connectivity.

Date	Location	Participants/Representatives/Agencies	Brief Summary/Purpose/Results/Outcomes
7/15/2005	Sylva	Technology Coordinators	Information sharing, planning
7/18/2005	Bryson City	WRESA, Clay, Swain Technology Coordinators	Information sharing, planning
7/21/2005	Franklin	WRESA, Technology Coordinators	Information sharing, planning
7/26/2005	Bryson City	WRESA/Southwestern Commission	Fiscal agent determination.
7/28/2005	Murphy	WRESA, Technology Coordinators, Golden LEAF, Southwestern Commission	Agreement on basic plans
7/29/2005	Franklin	WRESA, Superintendents, College Presidents, Technology Coordinators	Agreement on plans, budget, & service agreement
8/10/2005	Franklin	WRESA, Clay, Swain	Budget, Bidders' guidelines
8/11/2005	Bryson City	WRESA, Clay, Swain	Technical design discussions
8/15/2005	WRESA	WRESA, Southwestern Commission	Final Proposal submission
8/16/2005	WRESA	WRESA, Clay	Process checklist development.
8/22/2005	Cherokee	WRESA - Region A	Annual dinner
8/26/2005	WRESA	WRESA, Golden LEAF, Clay	Process checklist developed.
9/16/2005	Franklin	WRESA-2, Southwestern Commission-2, Etel. Com-4	Announcement of Golden LEAF Award/Conditions
9/29/2005	Swain HS	Technology Coordinators-9, WRESA/Southwestern Commission-2, CEO's-2, Other-15	Pre-Bidder Conference
10/13/2005	Cherokee	WRESA-2, CPFdn-3	Explore funding options
10/27/2005	WRESA	Bob Byrd, Andy Gibson, Leonard Winchester	Plan evaluations and procurement bid
10/28/2005	Email, Phone	WRESA-1, CPFdn-1	Submit questions/COI
11/1/2005	WRESA	WRESA-1, Golden LEAF-1	Explore COI Policy & budget
11/3/2005	Swain MS	WRESA-2, Clay, Swain, SW Commission	Plan procurement and CPFdn budget
11/9/2005	Email	WNCEdNET Groups	Mail CPFdn draft
11/11/2005	WRESA	WRESA-1, Vendors-8	Receive proposals
11/14/2005	Swain MS	WRESA-2, Technology Coordinators-9, Consultants-2	Open/review proposals
11/16/2005	Macon BOE	WRESA-2, Technology Coordinators-9, Consultants-2, Vendors-8	Vendor proposal presentations
11/17/2005	Macon BOE	Technology Coordinators-9, Consultants-2	Review proposals
11/22/2005	Macon BOE	WRESA-2, Technology Coordinators-9	Review proposals
11/29/2005	Cherokee Holiday Inn	WRESA-1	Burroughs Welcome Mtg
12/7/2005	Macon BOE	WRESA-2, Technology Coordinators-9	Review proposals select ASAP
12/16/2005	Macon BOE	WRESA-2, SW Commission-2, Technology Coordinators-9, Executive Committee-9	Present recommendations to Executive Committee ASAP
1/3/2006	WRESA	WRESA-2, Golden LEAF-1	Review progress plan budget
1/10/2006	Sylva	WRESA-2, Technology Coordinators-2	Plan setup of Applications Committee
1/19/2006	Macon BOE	WRESA-2, Technology Coordinators-9, Vendors-11	Negotiations with ASAP/planning

Date	Location	Participants/Representatives/Agencies	Brief Summary/Purpose/Results/Outcomes
1/20/2006	SW Comm Bryson City	Technology Coordinators-4, Executive Committee-3, WRESA-3, Golden LEAF-1	Plan publicity, discuss negotiations, plan budget format/process, plan future funding
1/25/2006	Clay BOE	Technology Coordinators/Applications Committee-14, WRESA-2	Organization of Technology Applications Committee
1/27/2006	Cherokee County Schools	WRESA-1, Technology Coordinators-1	Site visit/Formative Evaluation
1/27/2006	Clay County Schools	WRESA-1, Technology Coordinators-1	Site visit/Formative Evaluation
2/1/2006	WRESA	WRESA-3, Technology Coordinators-2	Plan ERC funding presentation
2/6/2006	Congressman Taylor's Office	WRESA-2, Golden LEAF-1, Technology Coordinators-2, Congressman-1, ERC-6	Funding request presentation
2/9/2006	SW Comm Bryson City	WRESA-1, SW Commission-1	Budget Process Planning
2/9/2006	Swain Cou Schools	WRESA-1, Technology Coordinator-1	Site visit/Formative Evaluation
2/9/2006	Cherokee Central Schls	WRESA-1, Technology Coordinator-1	Site visit/Formative Evaluation
2/10/2006	Various	WRESA-2, Applications Committee-8	Cyber Mtg -Test of Centra
2/14/2006	WRESA	WRESA-8, LearnNC-1	Review NC LEARN online courses
2/17/2006	SWCC	WRESA-1, Technology Coordinator-1	Site visit, evaluation
2/17/2006	WCU	WRESA-1, Technology Coordinator-1	Site visit, evaluation
2/20/2006	Macon BOE	WRESA-2, Technology Coordinators/Application Committee-15	Technology Coordinators review contract negotiations option, Applications Committee selection of facilitator
2/23/2006	CPFdn	WRESA-2, Technology Coordinators-4, CPFdn-5	Review CPFdn/WNCEdNET grant application
3/1/2006	WRESA	WRESA-3, Technology Coordinators-2, ARC-1	Prepare ARC request
3/6/2006	Cyber Mtg	WRESA-3, Technology Coordinators-5, Application Committee-8	Centra Orientation, Review websites
3/7/2006	CPFdn	WRESA-1, Technology Coordinators-1, CPFdn-2	Review contract elements
3/9/2006	WRESA	WRESA-2, Technology Coordinators-2	Revise ARC request
3/10/2006	WRESA	WRESA-2, Southwestern Commission-2, CPFdn-1	Notification of funding
3/13/2006	WRESA	WRESA-4, Etel Com-11, Technology Coordinators-9, Consulting Committee-8	E-mail notice of CPFdn Funding
3/20/2006	Macon Co Schools	TAC (14)	Discuss needs assessment Internet II
12/7/05 - 6/19/05		Contract negotiations led by Leonard Winchester	
3/27/2006	WRESA	GL-1, WRESA-3	Discuss publicity event & work W R-Polk
4/12/2006	Rutherford BOE	WRESA-2, E Polk Pangea Librarians-20, Rutherford CS	Discuss plans for P-R broadband

Date	Location	Participants/Representatives/Agencies	Brief Summary/Purpose/Results/Outcomes
4/24/2006	WRESA	WRESA-2, GL-2, Polk-2, Ruth-2, Cher-2	Discuss Golden LEAF Grant possibilities; decision for e-Polk to be grantee
4/27/2006	Smokey Mtn Elem Sch	Numerous agencies-26, approx. 250	GL/CPFdn Publicity Event
5/8/2006	Macon Co Sch	TAC-15	Review Tech programs
5/31/2006	Jackson Co Schools	Technology Coordinators-11, WRESA-3	Review contract, set up planning for maintenance
5/31/2006	Jackson Co Schools	Exec. Comm-7, Tech Coordinators-11, WRESA-3	Approve draft contract elements
6/8/2006	PPFdn	WRESA-1, CPFdn-1	Review evaluation
6/12/2006	Macon Co Sch	TAC-12, WRESA-1	Review Tech programs/needs policies
6/19-23/06	WRESA	Exec Comm, Tech Coord, SW Commission	Prepare ARC application
7/11/2006	CPFdn	WRESA (1), CPFdn (1)	Deliver WNC EdNET Brochures
7/11/2006	Raleigh	Lt. Gov (2), WRESA (1), Tech Coord (2)	Discuss state networks
7/14/2006	WCU	Exec. Comm. (1), WRESA (2), Other (3)	Review ASAP contract
7/18/2006	WRESA	Consulting group (1), WRESA (1)	Review evaluation for WNC EdNET
7/18/2006	Ch Hill	East-West Mtg. WRESA (1), Tech Coord (3)	Review broadband configurations
7/19/2006	Macon BOE	Tech Coord Mtg Tech Coord (7), WRESA (1), Other (2)	Approve contract; approve maintenance structure
7/19/2006	Macon BOE	Exec. Comm. (12) Tech Coord (6) WRESA (2)	Approve contract; approve maintenance structure
7/25/2006	Unknown	Tech Coord (4), WRESA (1)	List questions about the assessment goals and objectives
8/21/2006	SW Commission - Dinner	County Gov. Reps,	Annual Meeting
8/23/2006	SW Commission-Webster; Tech Coord Mtg	Tech Coordinators (6), WRESA - SW (4), Other (1)	Specific partner builds; discuss contract, ARC and maintenance.
8/30/2006	Cherokee Casino	WNC EdNET Presentation; WRESA (1), Other	Show Casino CPFdn Projects
8/30/2006	SW Commission - Webster	Staff Planning; SWC/WRESA (4), Tech Coord (2)	Planning contracting
9/7/2006	SWCC	WNC EdNET Planning; Tech Coord (2), SWC/WRESA (4)	Planning contracting
9/22/2006	Macon County Schools	Tech Coord. Meeting; Tech Coord (8); WRESA/SWC (2)	Discuss budget/ARC allocations

Date	Location	Participants/Representatives/Agencies	Brief Summary/Purpose/Results/Outcomes
9/27/2006	Robbinsville	Exec Comm (1), WRESA/SWC (3), Tech Coord (1); Other (commissioners) (5)	Plan/explore Graham transport possibilities
10/10/2006	Cherokee	WRESA (1), Tech Coord (3), TAC (5)	TAC Plan Conference
10/26/2006	Webster	WNC EdNET SWC (1), WRESA (1)	Planning Bookkeeping
11/28/2006	Hayesville	Tech Coord (1), WRESA (1)	ARC Planning
11/29/2006	Phone Person/WRESA	SWCC (1), GCS (1), CPFdn (2), G. County (1), Tech Coord (1), WRESA (3)	Plan, prepare, submit to CPFdn Graham Co Supplement
12/5/2006	Macon Co BOE	Tech Coord (10), WRESA (2), TAC/Other (6)	Plan Awareness Conf. Select WRESA to manage; update WNC EdNET maintenance - management structure
12/7/2006	Phone	Tech Coord (2), WRESA (1)	Update/briefing ARC Report Planning
12/11/2006	Phone	Tech Coord (2), WRESA (3)	Plan ARC encumbrance process
1/4-5/2007	Webster/Cherokee	SW Comm (2), WRESA (2), CPFdn (1)	Prepare/submit Funding Spent Report
1/16/2007	Webster	Tech Coord (14), TAC (1), WRESA (2), SW Comm (2), Golden LEAF (1)	Review contracts, review Bi-laws, review Awareness Conf. Program, review funding
1/25/2007	WCU Cullowhee	WRESA (6), Other (4)	Scope out Ramsey Center for WNC EdNet Awareness Conf.
1/26/2007	WCU Cullowhee	WRESA (2), WCU (2), Tech Coord (2), Other (6)	Discuss/plan possibilities to use e-NC Authority to support EdNET
1/30/2007	Conference Call	WRESA (1), SW Comm (1), CPFdn (2)	Discuss Graham Supplement request
1/31/2007	SWCC - Webster	WRESA (1), Tech Coord (4), Other (4)	Review by vendor of SONET/alternatives
2/5/2007	Conference Call	WRESA (1), Tech Coord (10), Other (4)	Discuss 501 (c) (3) Janirve and Graham Supplement
2/6/2007	Macon Co. Tech Center	WRESA (1), Tech Coord (10), Other (4)	Review switching, routing and other equipment via vendor presentations for possible WNC EdNET procurement.
2/7/2007	WRESA - Phone Call/Discussion	WRESA (3), Other (1)	Establish contact with Janirve Foundation. Meeting set up with Mr. Dyson.
2/8/2007	WCU	WRESA (1), Other (4)	Planning session for Awareness Conference.
2/14/2007	Phone/Email	WRESA (3), SW Comm (2), Tech Coord (2), Others (7)	Prepare follow up report for CPFdn Graham Supplement.
2/22/2007	Graham Co. BOE Robbinsville	WRESA (1), SW Comm (1), BWFN (3), Execu. Comm. (1), Tech Coord (5), Other (4)	Review/plan/summarize CPFdn Graham Supplement, pricing and work schedule.
2/22/2007	WCU Outreach Center	WRESA (2), WCU (5), TAC (3)	Review Awareness Conf. Program plans. Decide on 2 Keynote speaks, discuss VIP representative.

Date	Location	Participants/Representatives/Agencies	Brief Summary/Purpose/Results/Outcomes
2/23/2007	Janirve Office	WRESA (1), Tech Coord. (1), Other (1)	Discuss WNC EdNET needs with Janirve Director. Determine application/funding process.
3/7/2007	SW Comm	WRESA (1), SW Comm, (1), Tech Coord (1)	Realign budget.
3/9/2007	Harrah's Casino Hotel	Multiple agencies and participants.	Showcase of Balsam West Fiber Net
3/15/2007	MC NC Ofc RTP	Tech Coord (10), MC NC RTP (7)	Switching/Routing discussion and comparison
3/19/2007	Macon Co BOE	WRESA (1), Tech Coord (9), Other (1)	Discussed 501 (c) (3) WNC EdNET Inc. Revise draft, decide to meet March 28 on switching/routing.
3/21/2007	Southwestern Comm	WRESA (1), SW Comm (1)	Review project progress
3/23/2007	Email/Phone	WRESA (2), Tech Coord (3), Exec Comm (3), Other (1)	Review legislative possibilities/implications for WNC EdNET.
3/26/2007	SWCC	WRESA (2), Tech Coord (2), Exec Comm (3), Other (1)	Meet with Rep. Haire to discuss legislative implications.
3/27/2007	Bryson City	WRESA (2), Tech Coord (2)	Review WNC EdNET progress and plans for equipment/hookups.
3/28/2007	SWCC	WRESA (1), Tech Coord (9), Other (3)	Engineer technology comparisons SONET, ethernet DWDN
3/28/2007	SW Comm	WRESA (1), SW Comm (3)	Review CPFdn Graham Supplement & 501 (c) (3)
3/29/2007	Cherokee	WRESA (1), CPFdn (1)	Complete grant award contract Graham Supplement
3/30/2007	WRESA	WRESA (3), Tech Coord (4), Other (4)	Discuss BETA Application
4/3/2007	ERC Asheville	ERC (3), WRESA (2), Tech Coord (2)	Review/tour ERC and discuss services
4/19/2007	SW Comm	Tech Coord (10), WRESA (1), SW Comm (1), Other (1)	Tech Coord Meeting review 501 (c) (3) - approve. Review equipment/maintenance issues - adopt 100% approach.
4/25/2007	Jackson County BOE	TAC (2), Exec Comm (1), Tech Coord (10), WRESA (2), SW Comm (1), Other (1)	Tech Coord discuss/adopt 501 (c) (3). Discuss WNC EdNET maintenance.
4/25/2007	Jackson County BOE	Exec Comm (9), TAC (2), Tech Coord (10), WRESA (2), SW Comm (1), Other (2)	Executive Committee - adoption of 501 (c) (3) guidelines - review Awareness Conf - empower maintenance study group
4/26/2007	Tribal Tech. Coord. Cherokee	WRESA (1), Tech. Coord. (1), TAC (1)	Discuss Dissemination Program for CPFdn
5/9/2007	Jackson County BOE	WRESA (1), Tech Coord (2), Exec. Comm. (3), SW Comm. (1), Other (1)	Formalize 501 (c) (3) budget/guidelines
5/10/2007	SW Comm	WRESA (2), SW Comm (2), Tech Coord (1)	Budget integration and delineation work session – Golden LEAF budget report
5/14/2007	WRESA	WRESA (3), Other (2)	Janirve Grant Application preparation

Date	Location	Participants/Representatives/Agencies	Brief Summary/Purpose/Results/Outcomes
5/23-25/07	WRESA	WRESA (3), SW Comm (2), Tech Coord (2), Others (5)	Prepare ARC Graham Application
6/24-26/07	Atlanta, GA	WRESA (1)	ISTE Conference
7/12/07	Graham/Macon County Field work	WRESA (1), Tech (2)	Inspect fiber construction/deployment
7/13/07	WRESA	WRESA (7)	Awareness Conference Planning
7/16/07	WRESA	WRESA (7), TAC (2)	Awareness Conference Planning
7/23/07	Jackson/Swain County	WRESA (2), Tech Coord (2), Exec Comm (3), Other (6)	Tour of WNC EdNET infrastructure construction sites - project luncheon provided by CPFdn to update project funding agencies.
7/24/07	SW Comm	Tech Coord Mtg Tech Coord (9), WRESA/SW Comm (3)	Prepare equipment purchase list. Chose Cisco switching and routing equipment.
8/2/07	Phone/Email	CPFdn (2), Tech Coord (2), WRESA (2)	Initial planning for Gates Foundation funding discussions.
8/3/07	Swain County Schools BOE	WRESA (3), Tech Coord/TAC (6)	Planning for Awareness Conference
8/3/07	WRESA	WRESA (3)	Submission of funding request for Highlands to Beta
7/24-8/15/07	Mail	Tech Coord (7), SW Comm (1), WRESA (2)	Preparation & processing ARC equipment PO's
6/24-27/07	Grove Park Inn	Tech Coord (2), Other	WNC EdNET presentation statewide Summer Leadership Conference
8/22/2007	Macon BOE	WRESA/SW Cimm (2), Tech Coord (9), Exec Comm (1)	Review RFD for equipment hookup. Decided to re-bid. Review Gates initiative.
8/21/2007	Cherokee	Govt. Leaders Western Region	SW Commission Annual Meeting
8/22/2007	Macon BOE	Tech Coord Mtg Tech Coord (9), WRESA (1), SW Comm (1)	Plan distance learning equipment specs.
8/22/2007	WRESA	WRESA (1), SWC (2)	Prep. ARC Progress Report, funding drawdown request
9/11/2007	Macon BOE	Tech. Coord Mtg (8)	Discuss equipment procurement and hookups
9/14/2007	WRESA	Exec Comm (7), Tech Coord (2), WRESA/SWC (5), TAC (2)	Discuss 501 (c) (3) approve bylaws.
9/17/2007	SW Comm	Tech Coord (7), SW Comm/WRESA (4), Exec Comm (3), Other (10)	Discuss Gates Foundation & foundation funding needs
9/18/2007	Swain Co BOE	TAC	Plan Awareness Conference

Date	Location	Participants/Representatives/Agencies	Brief Summary/Purpose/Results/Outcomes
9/24/2007	Cherokee CPFdn	WRESA (1), CPFdn (2), Other (1)	Planning S. engagement
10/3/2007	WRESA	WRESA (1), WCU (2)	Planning iTAC Conference
10/12/2007	WCU Ramsey Center	WRESA/SW Comm (11), Schools (2000+)	Tech. Application Awareness Conf (iTAC)
10/23/2007	SW Comm	WRESA (1), SW Comm (1), Tech Coord (1), GL Rep. (email)	Tech Coord (8), WRESA/SW Comm (3)
10/31/2007	Swain Co BOE	Tech Coord (8), WRESA/SW Comm (3)	Equipment selection, e-rate planning, 501 (c) (3) recommendations
11/1/2007	WRESA SW Comm Phone Email	WRESA/SW Comm(6), Tech Coord (7), Other (2)	Budget review – prepare GL Final Report
11/15/2007	Macon Co BOE	Tech Coord (7)	Plan equipment orders
11/27/2007	WRESA	WRESA (2), Tech Coord (3), Other (3), SW Comm (2)	Plan CPFdn Awareness Appreciation
12/4/2007	WRESA SW Comm	WRESA (2), Tech Coord (3), SW Comm (2), Other (2)	Prepare ARC Report
1/3/2008	WRESA	Tech Coord (2)	Site visit
1/16/2008	SW Comm	SW Comm (2), WRESA (1)	Budget review
1/24/2008	WRESA Phone Email	SW Comm (1), Tech Coord (2), WRESA (3), Other (1)	Plan GL budget revision
1/28/2008	SW Comm	SW Comm (2), WRESA (3), Tech Coord (1), Other (1)	Plan ARC-1 extension request, plan GL budget revision, plan Executive meeting
1/30/2008	WRESA Phone Email	WRESA (3), SW Comm (2), Tech Coord (1)	Prepare ARC-1 extension request
2/4/2008	WRESA	WRESA (5), Other (1)	Planning visit/meeting for WRESA Distance Learning
2/7/2008	Phone	WRESA (1), SW Comm (1), Other (1)	Budget review
2/7/2008	WRESA/ Phone Email	WRESA (3), CPFdn (1), SW Comm (1), Other (2)	Plan CPFdn revision for dissemination grant
2/11/2008	SW Comm	WRESA (2), SW Comm (1), Tech Coord (11), Other (1)	Plan Golden LEAF match, update ARC
2/11/2008	SW Comm	WRESA (2), SW Comm (2), Tech Coord (11), Other (1), Exec Comm (7)	Approve GL match, approve 501 (c) (3) Board, ARC update
2/18/2008	Cherokee Co	WRESA (3), Tech Coord (2), Exec Comm (1)	Partner Visit

Date	Location	Participants/Representatives/Agencies	Brief Summary/Purpose/Results/Outcomes
2/19/2008	Clay Co	WRESA (3), Tech Coord (1), Exec Comm (1)	Partner Visit
2/26/2008	Graham Co	WRESA (3), Tech Coord (1), Exec Comm (1)	Partner Visit
2/28/2008	Macon Co	WRESA (3), Tech Coord (1), Exec Comm (1)	Partner Visit
3/19/2008	Cherokee Central	WRESA (2), Tech Coord (1), Exec Comm (1)	Partner Visit
3/25/2008	WCU	WRESA (1), Tech Coord (1)	Partner Visit
4/17/2008	Phone/E-mail	WRESA (2), SW Comm (2), Other (2)	Plan/prepare ARC ₁ Report
4/22/2008	Swain Co BOE	WRESA (5), Exec Comm (1), Tech Coord (1)	WRESA Staff site visit
4/24/2008	CPFdn	WRESA (1), TAC (1)	Plan application, grant implementation
4/28/2008	Cherokee	WRESA (4)	Funding workshop
5/15/2008	CPFdn	WRESA (1), Tech Coord (8), TAC Com (6)	Plan/organize for application grant work
5/25/2008	Phone/E-mail	WRESA (2), SW Comm (2), Other (6)	Planning WNC EdNET final deployment and hookups
6/11/2008	WRESA	WRESA (2)	Plan/collect data ARC ₂ Report
6/16/2008	Cherokee CPFdn	WRESA (1), Others (2)	Plan grant implementation
6/18/2008	WRESA/Phone	WRESA (2), Others (4)	Plan Golden LEAF Interim Report
7/16/2008	SW Comm	WRESA (1), SW Comm (1)	Plan mtg/reports
7/17/2008	SW Comm	WRESA (1), Tech Coord/Application (7), SW Comm (1), Others (2)	Review progress plan implementation of CPFdn grant
8/14/2008	SWAIN BOE	WRESA (1), Tech Coord (1)	Site visit/planning
8/14/2008	CPFdn Cherokee	WRESA (1), Others (4)	Plan data collection
8/20/2008	CPFdn SWAIN BOE	WRESA (1), Tech Coord (1), Other (1)	Plan data collection
8/25-27/2008	WRESA	WRESA (3), SW Comm (1), Other (2)	Plan ARC Report
9/17/2008	Macon Co BOE	WRESA (1), Tech Coord (9), Other (1)	Tech Coord/TAC Mtg – Progress Reports

Date	Location	Participants/Representatives/Agencies	Brief Summary/Purpose/Results/Outcomes
9/17/2008	Macon Co BOE	WRESA(2), Tech Coord (9), Exec Comm (9)	Exec Comm Mtg , progress reports, orientation new members
9/11-30/2008	Regionwide	Numerous	WNC EdNET survey distributions
10/1/2008	WRESA	WRESA (4), SW Comm (1), Others (5)	Collect survey data
10/1/2008	WRESA	WRESA (4), SW Comm (1), Others 5	Prepare ARC Final Report

VI. Appendix B
Termination Workscope

Appendix B Termination Workslope

Below is the scope of work and cost to complete the installation of the fiber cables and terminations on the cables provided by BalsamWest. NCI requires a purchase order two weeks prior to start of work.

Mapping

Penetrate brick exterior wall, mount LB, attach EMT conduit to existing inner duct and extend EMT thru wall into crawl space, attach drive rings to floor and extend fiber over to underside of termination room, penetrate floor and sleeve, extend fiber into termination room. Mount customer provided termination shelf, terminate and test two (2) fibers. Cost \$1,795.00.

Court House

Penetrate wood wall, mount LB, attach PVC conduit to existing inner duct and extend PVC thru wall. Mount customer provided termination shelf, terminate and test two (2) fibers. Cost \$800.00.

Phillips and Jordon Building

Penetrate block wall, mount LB, attach EMT conduit to existing inner duct and extend approximately thirty feet up wall thru LB into building at closet. Mount customer provided termination shelf, terminate and test two (2) fibers. Cost \$1,830.00.

City Hall

Penetrate brick/block wall, mount LB attach EMT conduit to existing inner duct and extend EMT thru wall, attach drive rings to floor and extend fiber over to underside of closet in bathroom of Mayor's office. Penetrate floor and sleeve. Mount customer provided termination shelf, terminate and test two (2) fibers. Cost \$1,490.00.

Sheriffs Office

Penetrate block wall, mount LB attach EMT conduit to existing inner duct and extend EMT twenty five feet down wall then thru wall, attach fiber along wall approximately twenty five feet to termination point. Mount customer provided termination shelf, terminate and test two (2) fibers. Cost \$ 1,620.00.

New Health Department

Mount customer provided termination shelf, terminate and test two (2) fibers. Cost \$ 490.00.

Library

Penetrate block/wood wall, mount LB, attach EMT conduit to existing inner duct and extend approximately ten feet up wall thru LB into building above drop ceiling, extend fiber twenty feet to Work Room. Mount customer provided termination shelf, terminate and test two (2) fibers. Cost \$ 1,315.00.

DSS

Penetrate block wall, mount LB, attach EMT conduit to existing inner duct and extend approximately two feet up wall thru LB into building above heater at floor level. Mount customer provided termination shelf, terminate and test two (2) fibers. Cost \$ 930.00.

Upper Plant Warehouse #2

Penetrate block wall, mount LB, attach EMT conduit to existing inner duct and extend approximately ten feet up wall thru LB into building. Mount customer provided termination shelf, terminate and test two (2) fibers. Cost \$ 980.00.

911 Center

Penetrate metal wall, mount LB, attach EMT conduit to existing inner duct and extend approximately ten feet up wall thru LB into building above drop ceiling, extend fiber twenty five feet to termination room. Mount NCI provided termination shelf, terminate and test thirty fibers (30) fibers. Cost \$ 3,945.00.

A daily penalty of \$125.00 will apply if all work is not completed within 30 days of start of project, provided no extensions are granted. It is understood that extensions can be negotiated due to unanticipated circumstances. If lengthy delays occur the parties may agree to cancel the contract without penalty and work performed will be paid on a pro-rated basis.

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VII. Appendix C

Progress Reports

Appendix C
WNC EdNET Site Completion Status Report

County	School	Location	City	Termination at Hub	Termination at site	Configuration
Jackson	Jackson County Schools	398 Hospital Rd	Sylva	complete	complete	configured
	Blue Ridge School	95 Bobcat Drive	Cashiers	complete	complete	configured
	Cullowhee Valley School	240 Wisdom Drive	Cullowhee	complete	complete	configured
	Fairview Elementary	251 Big Orange Way	Sylva	complete	complete	configured
	Scott's Creek Elementary	516 Parris Branch	Sylva	complete	complete	configured
	Smokey Mountain Elementary	884 US Hwy 441N	Whittier	complete	complete	configured
	Smokey Mountain High	100 Smokey Mountain Dr	Sylva	complete	complete	configured
	School of Alternatives	3770 Skyland Drive	Sylva	complete	complete	configured
Macon	Macon County Schools	1202 Old Murphy Rd	Franklin	complete	complete	configured
	West Macon Elementary	3295 Murphy Hwy	Franklin	complete	complete	configured
	Cullasaja Elementary	145 River Rd	Franklin	cancelled	cancelled	cancelled
	East Franklin Elementary	100 Watauga Street	Franklin	complete	complete	configured
	Franklin High	100 Panther Drive	Franklin	complete	complete	configured
	Highlands School	545 Pierson Drive	Highlands	construction in progress	regen site todo	waiting
	Iotla Elementary	1166 Iotla Church Rd	Franklin	complete	None to do	None to do
	Macon County Middle	1345 Wells Grove Rd	Franklin	complete	complete	configured
	Nantahala School	212 Winding Stair Rd	Topton	complete	regen site todo	waiting
	South Macon Elementary	855 Addington Bridge Rd	Franklin	complete	complete	configured
	Union Learning Center	158 Union School Rd	Franklin	complete	complete	configured
Cherokee	Cherokee County Schools	911 Andrews Rd	Murphy	complete	complete	configured
	Cherokee County Schools NOC	2415 Airport Rd.	Marble	complete	complete	configured
	Andrews Elementary	205 Walnut Street	Andrews	complete	complete	configured
	Andrews High	50 High School Drive	Andrews	complete	complete	configured
	Andrews Middle	2750 Business Hwy 19	Andrews	complete	complete	configured
	Hiwassee Dam Union	267 Blue Eagle Circle	Murphy	complete	complete	configured
	Marble Elementary	Old Hwy 19	Marble	complete	complete	configured
	Martins Creek Elementary	1459 Tobe Stalcup Rd	Murphy	complete	complete	configured
	Mountain Youth Center	4533 Martins Creek Rd	Murphy	complete	complete	configured
	Murphy Elementary	315 Valley River Avenue	Murphy	complete	complete	configured

	Murphy High	234 High School Circle	Murphy	complete	complete	configured
	Murphy Middle	65 Middle School Drive	Murphy	complete	complete	configured
	Peachtree Elementary	30 Upper Peachtree Rd	Murphy	complete	complete	configured
	Ranger Elementary	101 Hardy Truett Rd	Murphy	complete	complete	configured
Graham	Graham County Schools	52 Moose Branch Rd	Robbinsville	complete	complete	configured
	Robbinsville Elementary	54 Moose Branch Rd	Robbinsville	complete	complete	configured
	Robbinsville High	301 Sweetwater Rd	Robbinsville	complete	complete	configured
	Robbinsville Middle	301 Sweetwater Rd	Robbinsville	complete	complete	configured
	Youth Development Center	139 Moose Branch Rd	Robbinsville	complete	complete	configured
Tribal	Cherokee Schools	738 Acquoni Rd	Cherokee	complete	complete	configured
	Cherokee High School	1501 Acquoni Rd	Cherokee	complete	complete	configured
	Cherokee Elementary School	88 Agency Street	Cherokee	complete	complete	configured
	Cherokee Middle School	1501 Acquoni Rd	Cherokee	complete	complete	configured
	Future Cherokee K-12 (Raven's Ford)	Big Cove Rd	Cherokee	complete	None to do	None to do
	Cherokee Central Schools IT Dept	33 Drowning Bear	Cherokee	complete	complete	configured
Clay	Clay County Schools	154 Yellow Jacket Drive	Hayesville	complete	complete	configured
	Hayesville Elementary	72 Elementary School Dr	Hayesville	complete	complete	configured
	Hayesville High	205 Yellow Jacket Drive	Hayesville	complete	complete	configured
	Hayesville Middle	135 School Drive	Hayesville	complete	complete	configured
Swain	Swain County Schools	280 School Drive	Bryson City	complete	complete	configured
	Swain County High	1415 Fontana Rd	Bryson City	complete	complete	configured
	Swain County Middle	135 Arlington Avenue	Bryson City	complete	complete	configured
	Swain County East Elementary	4747 Ela Rd	Whittier	complete	complete	configured
	Swain County West Elementary	4142 Hwy 19 West	Bryson City	complete	complete	configured
Charter	Mtn. Discovery	890 Jenkins Branch Rd	complete	complete	State todo	State todo
	The Learning Center	945 Conaheeta Street	Murphy	complete	State todo	State todo
	Summit Charter	160 Frank Allen Rd	Cashiers	On hold	State todo	State todo

