



## Budget Narrative

Applicant Name: North Florida Broadband Authority

EasyGrants Number: 2259

Organization Type: Local Government (Single Purpose Government Authority)

Proposed Period of Performance: Under 3 years

Total Project Costs: \$39,369,676

Total Federal Grant Request: \$30,142,676

Total Matching Funds (Cash): \$ n/a

Total Matching Funds (In-Kind): \$9,227,000

Total Matching Funds (Cash + In-Kind): \$9,227,000

Total Matching Funds (Cash + In-Kind) as Percentage of Total Project Costs: 23.4%

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### 1. Administrative and legal expenses

- List breakout of position(s), time commitment(s) such as hours or level-of-effort, and salary information/rates with a detailed explanation, and additional information as needed.

Contract compliance and legal support for managing the contract procurement, execution and compliance issues will be provided by consultants and legal firms.

Contract Administration and Legal fees are estimated at \$542,568

	Hours	Years	Rate	Total Cost
Account mgr	1560	3	\$ 40.00/hr	\$ 187,200
Accounting asst	1526	3	\$ 16.00/hr	\$ 73,728



Admin specialist	1560	3	\$ 13.00	\$ 60,840
Legal	320	3	\$230.00	\$ 220,800

Total \$ 542,568

- Provide description, calculation, and basis of evaluation for Cash Matching Funds.

We have no Cash Matching Funds.

- Provide description, calculation, and basis of evaluation for In-Kind Matching Funds.

We have no in-kind contributions for Administrative and Legal

2. Land, structure, rights-of-way, appraisals, etc.

- Provide description of estimated costs, proposed activities, and additional information as needed.

There are two sub-categories of capital expenses listed here. First, commercial tower access is obtained through a 5-year capital lease granting us exclusive and unrestricted of tower capacity for a five year term. 54 commercial towers fall under these leases and the cost is from market rates of leading tower companies. All towers are valued at 1500/month over a 60 month term.

The second sub-category is for the upstream transport and Direct Internet Access (DIA). This is quoted by Level 3 and is in the form of an Indefeasible Right of Use (IRU) a form of capital lease. The quote is for \$6.16 million for a 5 year term which includes final field engineering by Level 3. The quote is for protected ring and Internet access, providing 6 backbone nodes each with a capacity of 1 Gbps, with additional burst capacity.

Tower IRU leases	Y	\$ 4,860,000	1	\$ 4,860,000
Fiber IRU and DIA (6 nodes)	Y	\$ 1,026,666.67	6	\$ 6,160,000
Total				\$ 11,020,000



Provide description, calculation, and basis of evaluation for In-Kind Matching Funds.

In-kind contributions consist of tower, rooftop and land access, as well as some consulting services. In-kind contribution values were calculated using market rates for access on similarly available commercial towers, rooftops and land as well as the value of leases currently in place for access to these contributed assets. Assets provided for use by the City and County members of the Authority.

Towers between 50 - 99 feet	Y	\$ 30,000	24	\$ 720,000
Towers between 100-199 feet	Y	\$ 90,000	54	\$ 4,860,000
Towers 200 feet or more	Y	\$ 108,000	20	\$ 2,160,000
County Land	Y	\$ 10,000	32	\$ 320,000
Building POP	Y	\$ 90,000	11	\$ 990,000
Other Donated Services	Y	\$ 177,000	1	\$ 177,000

Total in-kind contributions \$ 9,227,000

3. Relocation expenses and payment

n/a – not applicable

4. Architectural and engineering fees

- Provide description of estimated fees, explanation of proposed services, and additional information as needed.

Engineering of the initial network design and continued refinements to integrate in-kind tower assets, changes in vendor negotiations, customer deployment and network health requires 2x highly qualified full-time personnel. Each engineer will also receive vendor training and support.

Project management for the full 3 years, which includes the core network deployment, customer deployments and operations is forecasted to take all full-time personnel; 2 core project managers and 7 localized on-site managers, of a highly qualified nature (1 per 2 counties) and 2 administrative support personnel.

Total Architectural and Engineering fees are \$1,536,000.

Both estimates include travel and transportation costs as needed.

	Hours	Years	Rate	Total Cost
Engineer	500	3	\$70.00	\$105,000.00



Engineer	500	3	\$70.00	\$105,000.00
Project Manager	2080	3	\$40.00	\$249,600.00
Project Manager	2080	2	\$37.50	\$156,000.00
1 On-Site Manager	2080	3	\$30.00	\$187,200.00
2 On-Site Manager	2080	3	\$30.00	\$187,200.00
3 On-Site Manager	1040	3	\$25.00	\$ 78,000.00
4 On-Site Manager	1040	3	\$25.00	\$ 78,000.00
5 On-Site Manager	1040	3	\$25.00	\$ 78,000.00
6 On-Site Manager	1040	3	\$25.00	\$ 78,000.00
7 On-Site Manager	1040	3	\$25.00	\$ 78,000.00
Administrative Assistant	2080	3	\$12.50	\$78,000.00
Administrative Assistant	2080	3	\$12.50	\$78,000.00

Total

\$1,536,000.00



5. Other architectural and engineering fees

- Provide description of estimated fees, explanation of proposed services, and additional information as needed.

Each tower site, whether commercial or private requires a structural engineering analysis which costs approximately \$3000/site.

Total estimated "Other architectural and Engineering Fees" are \$3,000 x 128 sites = \$384,000.

6. Project inspection fees

- Provide description of estimated fees, explanation of proposed services, and additional informaiton as needed.

Project Inspection responsibilities will include verifying proper installations, equipment performance, line of sight/interference testing, full network operation, operating system management verification and confirmation of the accuracy of reports for performance and wireless standards compliance. In addition, oversight of all programmatic processess, communication with Authority membership, and inspection of utilized in-kind contributions.

Total Project inspection fees are estimated at \$753,432

- Provide description, calculation, and basis of evaluation for In-Kind Matching Funds.

We have no in-kind matching funds for Program Management and project inspection services.

7. Site work

- Provide description of estimated fees, explanation of proposed services, and additional information as needed.

All facilities are comprised of existing tower and fiber (POP) structures, which negates the need for construction readiness, however deployment of the equipment required certified tower climbers and electricians.

We estimate that a small amount of site prep work will be required for each tower site. Specifically, this refers to radio stabilization, A/C, and electrical modifications. No other significant site preparation is required. All networks will be connected via standard ethernet connections or ethernet over fiber (jumper cable), customer locations to a demarcation.

Estimated cost:

Electrical/Air Conditioning	Y	\$	1,750	74	\$	129,500
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8. Demolition and removal

- Provide description of estimated fees, explanation of proposed services, and additional information as needed.

n/a – not applicable

9. Construction

- Provide description of estimated fees, explanation of proposed services, state whether the work is being completed by the applicant or an outside contractor, and additional information as needed.

This project does not include any construction. All facilities are existing.

10. Equipment

- Provide list of equipment with description, number of units, unit cost, state whether it is being purchased or leased, and additional information as needed.

Switching	Y	\$ 4,000	128	\$ 512,000	
Routing	Y	\$ 5,900	9	\$ 53,100	
Transport-Turnkey Microwave Links	Y	\$ 58,945.545	154	\$ 9,077,460	
Modems	Y	\$ 25,000	192	\$ 4,800,000	
WaVeNOC	Y	\$ 16,552	58	\$ 960,016	
IT System Elements	Y	\$ 555.55	54	\$ 30,000	Trouble-shooting workstations at
User Devices	Y	\$ 10,000	2	\$ 20,000	Digital meters/calibrating equipm
Test Generators	Y	\$ 28,000	1	\$ 28,000	Spectrum analyzer
Servers/Computers	Y	\$ 3,900	10	\$ 39,000	Test work stations
Servers/Computers	Y	\$ 1,480	100	\$ 148,000	Network Monitoring Stations
Total				\$ 15,667,576	

\*The totals for the Microwave Links and IT System Elements have been rounded.



11. Miscellaneous

- Provide additional information as needed.

Network Elements	Y	\$ 4,800	2	\$ 9,600	Intermapper license
Billing Support Systems	Y	\$ 50,000	1	\$ 50,000	Billing software & operations support systems
Customer Care Systems	Y	\$ 50,000	1	\$ 50,000	Customer service software & operations support systems
Total				\$ 109,600	

Software purchases for mapping, billing and customer service systems are included here.

- Provide description, calculation, and basis of evaluation of In-Kind Matching Funds.

N/A

Addendum

- If indirect costs (i.e., indirect, overhead, general and administrative, facilities and administration, etc.) and/or fringe benefits are included in the budget, please provide a copy of your existing Negotiated Indirect Cost Recovery Agreement (NICRA), if available. If the NICRA is applied accordingly in the budget, there is no need to justify the costs. If a NICRA is not available or is not consistent with the rates/calculations in the budget, please provide an explanation of how the amounts were calculated. Please clearly list the manner in which indirect costs are calculated in the budget.

None included in the budget





## DETAIL OF PROJECT COSTS

PLEASE COMPLETE THE TABLE BELOW FOR THE DIFFERENT CATEGORIES OF EQUIPMENT THAT WILL BE REQUIRED FOR COMPLETING THE PROJECT. EACH CATEGORY SHOULD BE BROKEN DOWN TO THE APPROPRIATE LEVEL FOR IDENTIFYING UNIT COST

SERVICE AREA or COMMON NETWORK FACILITIES:		Eligibility (Yes/No)	Unit Cost	No. of Units	Total Cost	Support of Reasonableness
<b>NETWORK &amp; ACCESS EQUIPMENT</b>					<b>\$20,662,560</b>	
Switching	Switching	Y	\$ 4,000	128	\$ 512,000	Switching equipment necessary to support L
					0	
Routing	Routing	Y	\$ 5,900	9	\$ 53,100	Routing equipment necessary to support La
					0	
Transport	Transport-Turnkey Microwave	Y	\$ 58,944,545	154	\$ 9,077,460	Turnkey Microwave links (350 mbps vs 100
	Commercial Tower Capital Lea	Y	\$ 90,000	54	\$ 4,860,000	Commercial Tower Capital Leases
Access	IRU Transport & DIA	Y	\$ 6,160,000	1	\$ 6,160,000	Level 3 quoted 5.6MM + 10% for field engine
					0	
Other					0	
					0	
<b>OUTSIDE PLANT</b>					<b>\$8,060,000</b>	
Cables					0	
					0	
Conduits					0	
					0	
Ducts					0	
					0	
Poles					0	
					0	
Towers	Towers between 50 - 99 feet	Y	\$30,000	24	\$ 720,000	In-kind contribution from government
	Towers between 100 - 199 feet	Y	90000	54	\$ 4,860,000	In-kind contribution from government
	Towers over 200 feet	Y	108000	20	\$ 2,160,000	In-kind contribution from government
Repeaters					\$ -	
					\$ -	
					\$ -	
Other	County Land	Y	10000	32	\$ 320,000	In-kind contribution from government
					0	
<b>SERVICE AREA or COMMON NETWORK FACILITIES:</b>						
<b>BUILDINGS</b>					<b>\$1,503,500</b>	
New Construction					0	
					0	
Pre-Fab Huts					0	
					0	
Improvements & Renovation	Electrical/Air Conditioning	Y	\$ 1,750	74	\$ 129,500	Site improvements for electrical, stabilization
					0	
Other	Structural Analysis	Y	\$ 3,000	128	\$ 384,000	Engineering and structural improvements
	Building POP	Y	\$90,000	11	\$ 990,000	In Kind Contribution from government
<b>CUSTOMER PREMISE EQUIPMENT</b>					<b>\$4,800,000</b>	
Modems	Modems/Customer premise lin	Y	\$ 25,000	192	\$ 4,800,000	Critical Facility Microwave Links
					0	
Set Top Boxes					0	
					0	
Inside Writing					0	
					0	

Other						0	
						0	
						0	
<b>BILLING SUPPORT AND OPERATIONS SUPPORT SYSTEMS</b>						<b>\$100,000</b>	
Billing Support Systems	Billing Support Systems	Y	\$ 50,000	1	\$ 50,000	Billing software & operations support system	
						0	
						0	
Customer Care Systems	Customer Care Systems	Y	\$ 50,000	1	\$ 50,000	Customer service software & operations sup	
						0	
						0	
Other Support						0	
						0	
						0	
<b>SERVICE AREA or COMMON NETWORK FACILITIES:</b>		<b>Eligibility (Yes/No)</b>	<b>Unit Cost</b>	<b>No. of Units</b>	<b>Total Cost</b>	<b>Support of Reasonableness</b>	
<b>OPERATING EQUIPMENT</b>						<b>\$960,016</b>	
Vehicles						0	
						0	
						0	
Network Management Equipment	Wa/VENOC	Y	\$ 16,552	58	\$ 960,016	Wireless and Virtual Entity Network Operatic	
						0	
						0	
Other						0	
						0	
						0	
<b>PROFESSIONAL SERVICES</b>						<b>\$3,009,000</b>	
Project Mgmt/Engineering	Project Mgmt/Engineering Des	Y	\$ 1,536,000	1	\$ 1,536,000	On site engineers for deployment and turnu	
						0	
						0	
Program Management	Program Mgmt/Constr. Insp.	Y	\$ 753,432	1	\$ 753,432	Construction Inspection	
	Contract Admin/Legal	Y	\$ 542,568	1	\$ 542,568	Contract Admin/Legal	
						0	
Consulting	Donated ConsultingServices	Y	\$ 177,000	1	\$ 177,000	In-kind contribution from government	
						0	
						0	
Other						0	
						0	
						0	
<b>TESTING</b>						<b>\$274,600</b>	
Network Elements	Network Elements	Y	\$ 4,800	2	\$ 9,600	Intermapper license	
						0	
						0	
IT System Elements	IT System Elements	Y	\$ 555.55	54	\$ 30,000	Trouble-shooting workstations at backbone	
						0	
						0	
User Devices	User Devices	Y	\$ 10,000	2	\$ 20,000	Digital meters/calibrating equipment	
						0	
						0	
Test Generators	Test Generators	Y	\$ 28,000	1	\$ 28,000	Spectrum analyzer	
						0	
						0	
Lab Furnishings						0	
						0	
						0	
Servers / Computers	Servers/Computers	Y	\$ 3,900	10	\$ 39,000	Test work stations	
	Network Monitoring Stations	Y	\$ 1,480	100	\$ 148,000	Network Monitoring Stations	
						0	
<b>SERVICE AREA or COMMON NETWORK FACILITIES:</b>		<b>Eligibility (Yes/No)</b>	<b>Unit Cost</b>	<b>No. of Units</b>	<b>Total Cost</b>	<b>Support of Reasonableness</b>	
<b>OTHER UPFRONT COSTS</b>						<b>\$0</b>	
Site Preparation						0	
						0	
						0	
Other						0	
						0	
						0	
<b>PROJECT TOTAL:</b>					<b>\$39,369,676</b>		

**APPLICANT'S NAME**

**BUDGET INFORMATION - Construction Programs**

*NOTE: Certain Federal assistance programs require additional computations to arrive at the Federal share of project costs eligible for participation. If such is the case, you will be notified.*

<b>COST CLASSIFICATION</b>	<b>a. Total Cost</b>	<b>b. Matching Funds (Cash)</b>	<b>c. Matching Funds (In-Kind)</b>	<b>d. Federal Funding Request (Columns a-b-c)</b>
1. Administrative and legal expenses	\$542,568	\$0	\$0	\$542,568
2. Land, structures, rights-of-way, appraisals, etc.	\$20,247,000	\$0	\$9,227,000	\$11,020,000
3. Relocation expenses and payments	\$0	\$0	\$0	\$0
4. Architectural and engineering fees	\$1,536,000	\$0	\$0	\$1,536,000
5. Other architectural and engineering fees	\$384,000	\$0	\$0	\$384,000
6. Project inspection fees	\$753,432	\$0	\$0	\$753,432
7. Site work	\$129,500	\$0	\$0	\$129,500
8. Demolition and removal	\$0	\$0	\$0	\$0
9. Construction	\$0	\$0	\$0	\$0
10. Equipment	\$15,667,576	\$0	\$0	\$15,667,576
11. Miscellaneous	\$109,600	\$0	\$0	\$109,600
12. SUBTOTAL (add #1 through #11)	\$39,369,676	\$0	\$9,227,000	\$30,142,676
13. Contingencies	\$0	\$0	\$0	\$0
14. SUBTOTAL (add #12 and #13)	\$39,369,676	\$0	\$9,227,000	\$30,142,676
15. Project (program) income	\$0	\$0	\$0	\$0
<b>16. TOTAL PROJECT COSTS (subtract #15 from #14)</b>	<b>\$39,369,676</b>	<b>\$0</b>	<b>\$9,227,000</b>	<b>\$30,142,676</b>
<b>FEDERAL FUNDING</b>				
17. Federal assistance requested, calculated as follows: (Consult Federal agency for Federal percentage share.) Enter the resulting Federal share.		Enter eligible costs from line 16a Multiply X 20%		\$7,873,935