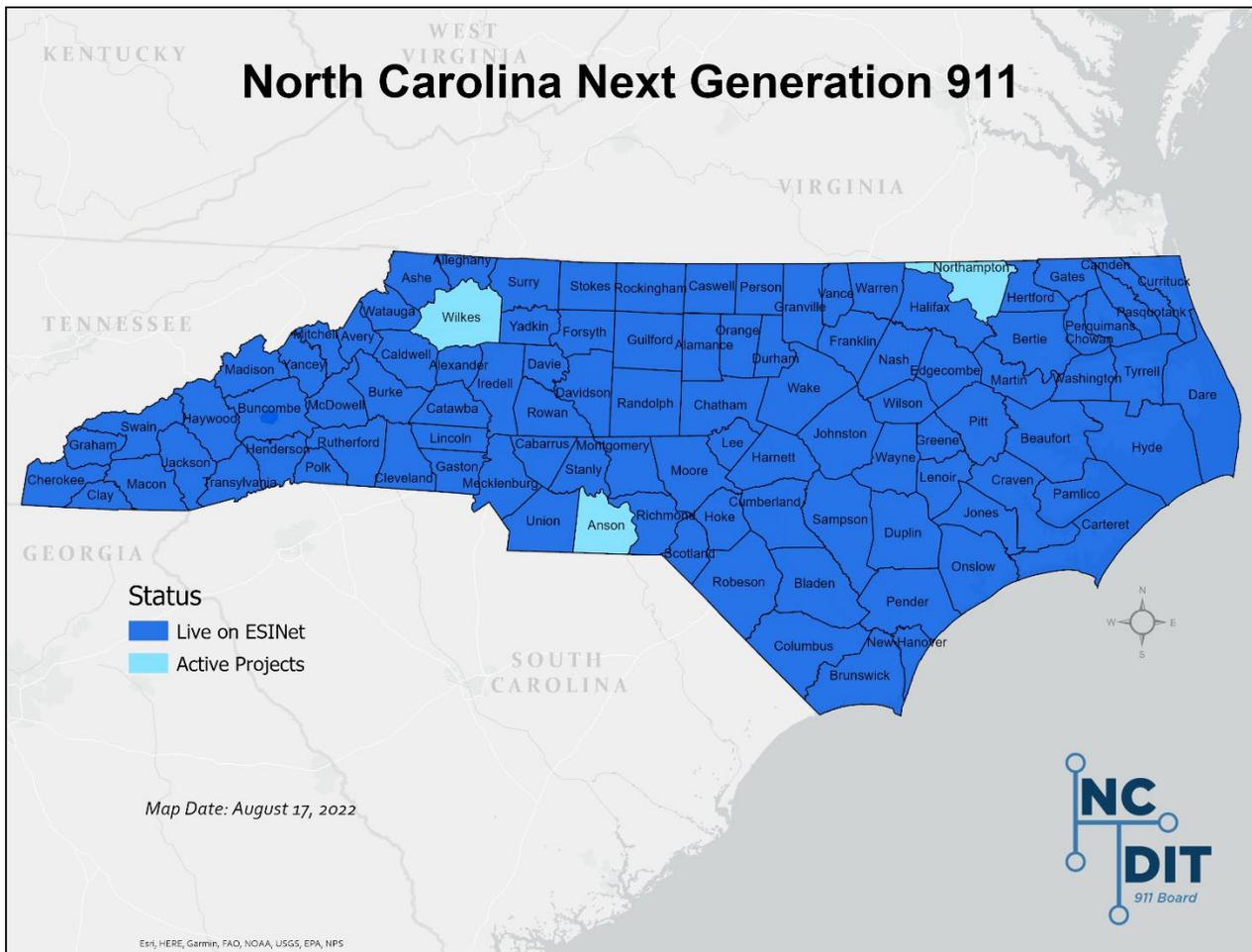




NORTH CAROLINA 911 BOARD MEETING
Friday, August 26, 2022
09:00 AM – 11:00 AM
Sheraton Greensboro, NC
Join Microsoft Teams Meeting
984-204-1487 Conference ID: 350 773 333#



Call to Order
Jim Weaver

Roll Call
Kristen Falco

Tab 1
Chair's Opening Remarks
Jim Weaver

Tab 2

Ethics Awareness/Conflict of Interest Statement

Jim Weaver

In accordance with G.S. 138A-15, It is the duty of every Board member to avoid both conflicts of interest and potential conflicts of interest. Does any Board member have any known conflict of interest or potential conflict of interest with respect to any matters coming before the Board today? If so, please identify the actual or potential conflict and refrain from any undue participation in the particular matter involved.

Tab 3

Public Comment

Jim Weaver

The NC 911 Board welcomes comments from state and local government officials, first responders, finance directors, 911 directors, citizens and interested parties about any 911 issue(s) or concern(s). Your opinions are valued in terms of providing input to the NC 911 Board members. When addressing the Board, please state your name and organization for the record and speak clearly into the microphone.

Tab 4

Consent Agenda

Pokey Harris

(Roll Call Vote Required)

Tab 4 a)

Minutes of Meeting

June 24, 2022

North Carolina 911 Board Meeting
MINUTES
Friday, June 24, 2022
10:00 AM – 12:00 PM
Via Simultaneous Communication
Microsoft Teams Meeting



North Carolina 911 Board Meeting Roll Call
Friday, June 24, 2022
10:00 AM - 12:00 PM
Via Simultaneous Communication with Microsoft Teams Meeting



NC 911 Board Members	VIA MS Teams	Not Present
David Bone, Executive Director, Eastern Carolina Council (NCACC)	X	
Tommy Cole, Fire Chief, City of Graham (NCSFA)	X	
Greg Coltrain, VP Business Development, Wilkes Communication/River Street (LEC)		Excused
Brian Drew, Manager of Customer Design and Implementation, CenturyLink/Lumen (LEC)		Excused
Bo Ferguson, Deputy City Manager, City of Durham (NCLM)		Excused
Greg Foster, Director of Communications, Alexander County (NCAR&EMS)	X	
Chuck Greene, Director of Government Affairs, AT&T (LEC)	X	
J.D. Hartman, Sheriff, Davie County (NC Sheriff's Association)	X	
Melanie Jones, Director, Guilford-Metro 911 (APCO)	X	
Lee Kerlin, RF Engineer, Tmobile Sprint (CMRS)	X	
Jeff Ledford, Chief, City of Shelby Police Department (NCACP)	X	
John Moore, Regional Manager, Government and Education Sales, Spectrum Comm (VoIP)		Excused
Jude O'Sullivan, Chief Customer Officer, Carolina West (CMRS)	X	
Jeff Shipp, Vice President of Operations (Ret.), Star Telephone (LEC)	X	
Earl Struble, Sr. Manager Verizon Response, Verizon Wireless (CMRS)	X	
Secretary Jim Weaver, 911 Board Chair (NC DIT)	X	
Donna Wright, Director (Ret.), Richmond County Emergency Services (NENA)	X	
NC 911 Board Staff		
Rick Blumer, NMAC Technician		Excused
Stephanie Connor, Western Regional Coordinator	X	
Greg Dotson, NMAC Manager	X	
Kristen Falco, Financial Review Specialist	X	
Bernard Gardner, NMAC Technician		Excused
Tina Gardner, North Central Regional Coordinator	X	
Pokey Harris, Executive Director	X	
Jesus Lopez, (NC DIT) NC 911 Board PM	X	
David Newberry, South Central Regional Coordinator	X	
Amanda Reeder, Special Deputy Attorney	X	
Tom Rogers, Network Engineer/NG 911 Project Manager	X	
Marsha Tapler, Financial Analyst	X	
Sarah Templeton, Financial Review Specialist	X	
Angie Turbeville, Eastern Regional Coordinator	X	
Evan Wamer, NMAC Technician		Excused

North Carolina 911 Board Meeting Roll Call

Friday, June 24, 2022

10:00 AM - 12:00 PM

Via Simultaneous Communication with Microsoft Teams Meeting



Guests	Via MS Teams	Organization
Kelly Alvarez	X	Charlotte Mecklenburg PD
Randy Beeman	X	City of Durham
Steve Bennet	X	Craven County
Corey Bodey	X	UNC Police
Matt Boyles	X	Stokes County
Josh Briggs	X	AT&T
Donna Bullard	X	Star Communications
Jason Compton	X	NC NENA
Chad Deese	X	Robeson County
Timothy Deranek	X	AT&T
Michael Desmond	X	Charlotte Medic
Brian Drum	X	Catawba County
Jennifer Etheridge	X	Wilson County
Kylie Felton	X	Pasquotank-Camden County
Will Holt	X	Watauga County
Stanley Kite	X	Craven County
Stori McIntyre	X	Cleveland County
Christine Moore	X	Guilford-Metro
Susan Nelson	X	Geocomm
Dominick Nutter	X	Raleigh-Wake
Jennifer Poole	X	Rapid SOS
Mike Reitz	X	Chatham County
Susan Rodocker	X	AT&T
Ronnie Rombs	X	Lincoln County
Daniel Roten	X	Alleghany County
Corinne Rust	X	Charlotte Medic
Christy Shearin	X	Franklin County
Ray Silance	X	Onslow County
Lynn Slycord	X	Kings Mountain PD
Jimmie Turbeville	X	Johnston County
Suzanne Walker	X	Raleigh-Wake
Jeff Williford	X	Wilson County
Stephanie Wiseman	X	Mitchell County

Call to Order – Secretary and Board Chairman Jim Weaver called the meeting to order at 10:00 AM and asked to proceed with the roll call.

Roll Call – Ms. Harris advised Ms. Falco would call the roll of attendees and Ms. Templeton would serve as the technical facilitator for the virtual meeting.

- Opening Remarks** – Chairman Weaver congratulated Ms. Jones on her nuptials earlier this month. He mentioned he is looking forward to visiting Onslow County to deliver “Pizza with Pokey” to the PSAP for winning first place in the photo contest for NPSTW. Ms. Harris and Mr. Shipp will be visiting Wilson County to deliver cupcakes to the PSAP for winning second place in the photo contest for NPSTW.

2. **Ethics Awareness/Conflict of Interest Statement** – Pursuant to G.S. 138A-15(e), Chairman Weaver read the Ethics Awareness/Conflict of Interest statement as published in the agenda. Mr. Greene recused himself from action item 15, Ratification of ESInet Points of Interconnection (POIs).
3. **Public Comment** – Chairman Weaver read the invitation for public comment as published in the agenda. Mr. Beeman shared comments, thanking the Board staff, NMAC staff, AT&T, and Verizon for the assistance with Durham Emergency Communications and for the events occurring over the last couple of weeks, which were resolved.
4. **Consent Agenda** – Chairman Weaver asked Ms. Harris to proceed with the consent agenda.
- a) Minutes of Previous Meeting - April 29, 2022
 - b) NG 911 Reserve Fund

April 2022 Fund Balance	\$ 79,895,837
April 2022 Disbursement	\$ 2,143,324
May 2022 Fund Balance	\$ 77,958,414
May 2022 Disbursement	\$ 3,844,405
 - c) CMRS Account

April 2022 Account Balance	\$ 2,780,065
April 2022 Disbursement	\$ 68,196
May 2022 Account Balance	\$ 2,667,452
May 2022 Disbursement	\$ 218,770
 - d) PSAP Account

April 2022 Account Balance	\$ 14,564,847
April 2022 Disbursement	\$ 3,535,303
May 2022 Account Balance	\$ 16,647,003
May 2022 Disbursement	\$ 3,535,303
 - e) PSAP Grant/Statewide Projects Account

April 2022 Account Balance	\$ 23,767,730
Grant Funds Committed	\$ 22,783,839
May 2022 Account Balance	\$ 24,847,444
Grant Funds Committed	\$ 21,150,724
 - f) Grant Project Updates per Reports

Ms. Wright made a motion to accept the consent agenda as presented. Ms. Falco conducted the roll call vote. All members present voted, and the consent agenda was unanimously approved. *The roster of roll call votes for all action items for this meeting is included below as part of these minutes.*

5. **Executive Director Report**

- a) Staffing Updates – Ms. Harris reported that the Board was able to reclassify the positions for the Financial Review Specialist so that Ms. Falco and Ms. Templeton will be classified as Program Coordinators II effective July 1. With the added administrative responsibilities of this position, they will now serve as the administrative team for the staff and Board.
- b) Biennial Audit – Ms. Harris noted Ms. Tapler is preparing for the biennial audit for fiscal years 2021 and 2022, with the engagement letter anticipated to be received by late fall to commence work by the first of the year.
- c) NextGen 911 Migration Status – [Live Status Map](#) – Ms. Harris congratulated the following on the recent migration to the ESInet:
 - Currituck County 911 (05/18/2022) - Migrated as i3. Vesta hosted call handling equipment. PSAP #120/physical location #184 (including backups).
 - Charlotte Medic 911 (05/23/2022) - Migrated as i3. ESInet only. PSAP #121/physical location #185 (including backups).
 - Charlotte Fire 911 (05/24/2022) - Migrated as i3. ESInet only. PSAP #122/ physical location #186 (including backups).
 - Charlotte Mecklenburg Police Department (05/25/2022) - Migrated as i3. ESInet only. PSAP #123/physical location #188 (including backups).
 - Macon County 911 (06/08/2022) - Migrated as i3. Viper hosted call handling equipment. PSAP #124/ physical location #190 (including backups).
- d) NextGen 911 GIS Status Map – There are four (4) PSAPS remaining to reach i3 status. Matt McLamb (CGIA) and the Regional Coordinators continue to work with the PSAPs to assist in reaching i3 status.

- e) NC Telecommunicator Classification Discussion – In North Carolina, telecommunicators are not classified as public safety personnel. There is no classification for this occupation. At a federal level, telecommunicators are currently classified as a clerical occupation. Ms. Harris noted a group including Ms. Wright, Ms. Jones, the Board’s legal counsel, NC DIT’s legal counsel, and Secretary Weaver are reviewing the classification of telecommunicators. Currently, there are two bills (H492 and H741) at the Senate rules and operations committee that address telecommunicators as first responders regarding PTSD and other benefits. If these two bills move forward this will allow the pursuit of the classification of telecommunicators as emergency responders in the Protective Service category.
- f) August 2022 PSAP Managers Meeting Update – The two-day meeting on August 25 and 26, will be hosted in Greensboro, NC at the Sheraton and will include lodging and meals. A hold the date has been sent out and staff is working on the agenda. Board members are invited to attend both days. Ms. Harris noted to provide the accommodations to PSAP staff for the meeting, attendance is required for both days including the Board meeting on Friday morning.
- g) NC 988 Planning Coalition/National Suicide Prevention Lifeline (NSPL) – Ms. Harris, Ms. Turbeville, and Ms. Reeder have attended multiple 988 coalition meetings hosted by the Department of Health and Human Services (DHHS) over the last several months. Ms. Harris invited representatives from the FCC to speak at a recent meeting of the coalition about the parallels between 911 and 988 and to talk about the technical aspects of 988. The implementation of 988 on July 16 is a transition to dialing three-digits instead of ten-digits to reach the NSPL. These calls will be routed via area code, not geo-location. PSAPs will continue to process mental health calls following the PSAP’s protocol with coordination and engagement with the crisis center.
- h) 2022 NASNA Annual Business Meeting and 2022 NENA Annual Conference Update – Ms. Harris provided highlights from the NASNA business meeting and NENA conference. She met with representatives from the Army and Marines and learned that the Department of Defense (DOD) Directive 8422.01E which establishes the Defense Information Systems Agency (DISA) Office of Public Safety Communications has been signed and is active. Ms. Harris reminded the Board that Seymour Johnson Airforce Base is in the process of contracting with AT&T for migration to the ESInet. They will be the first military installation in NC and the first in the country to have interconnection with AT&T’s National ESInet. FirstNet provided updates about uses in areas with limited diversity and redundancy. Ms. Harris had an opportunity to speak with a large CAD vendor in the State’s technical and support teams to get a better process in place when issues arise with CAD or call handling equipment. At the conference, there was a lot of emphasis on mental health and wellbeing, and she had conversations with NC NENA and NC APCO about a potential partnership for mental health. At the meeting, Ms. Harris had conversations with AT&T and Intrado about the interface with ADT Security and the ability to text information to the PSAP. A press release will be forthcoming from a couple of PSAPs that are already accepting texts from ADT in North Carolina. She spoke about initiatives with representatives from the National 911 Office and the closeout of the Federal grant. NASNA is a two-day meeting with counterparts of Ms. Harris and Mr. Rogers across the country in attendance. Information was shared about state authority comparisons, service charge comparisons, and legislation. The commonality from across the country is the staffing shortage of telecommunicators and the issues with recruitment and retention. Ms. Harris congratulated Ms. Jones for being sworn in as the National NENA Second Vice President and a picture was displayed from her swearing-in ceremony.
- i) Legal Brief – Ms. Reeder discussed the Governor’s Budget, S792. This would affect the Board by increasing the amount the Department of Revenue can collect for pre-paid wireless sales in G.S. 143B-1414 from \$500K to \$750K. In discussion with the Board’s financial staff, no one is sure exactly what this 50% increase is for, as the collection of these fees is automated. Ms. Reeder noted it was introduced in the Senate on May 25, assigned to several committees on May 26, and has not moved since. Ms. Reeder also noted it has recently come to the attention of Board’s staff that Lumen Technologies, which is also known as CenturyLink, plans to change its billing in its Local Terms of Service by unbundling the charges that is already being charged to PSAPs. Ms. Reeder stated that the issue before the Board is not regarding the business philosophy of Lumen, but rather whether this is an eligible expense for the Board to pay out of the ETSF. It is important to note that G.S. 143B-1406(d)(4) states “service supplier 911 service and other recurring charges supplanted by the State ESInet costs paid by the Board shall not be paid from distributions to the PSAPs[.]” This was discussed with the Executive Committee, and she and Board staff are continuing to conduct additional research and engage with Lumen to understand the exact nature of the charges in order to determine eligibility, as Board staff needs to see the expenses itemized to allow them to ensure compliance with G.S. 143B-1406(d).

At this time, the determination is that the Board will be reimbursing these costs, but it does so with a reservation of rights should portions of this be determined as ineligible. Ms. Reeder emphasized that if such a determination does occur, it would only be going forward and not retroactive. Ms. Reeder noted that the last item on the agenda will be a closed session to discuss the ratification of the Points of Interconnection, and further explanation would be provided at that time.

6. **Executive Committee Report** – The Executive Committee met on Friday, May 20, 2022, for an informational-only meeting. There were no votes taken. There were two items to share with the Board. The first item was presented by Ms. Reeder during her legal brief addressing the investigation of the charges. Staff is engaged with Lumen as well as subject matter experts in the field of tariffs and telecom charges. The second issue discussed was a communications service provider in the State has questioned whether the Board has met its requirement to ratify the POIs for the Statewide ESInet. The Board has done this by entering into its contractual arrangement with AT&T. However, out of an abundance of clarity the Board will ratify the POIs established by the contract following the closed session today identified for discussion of this matter.
7. **Education Committee Report** – The Education Committee did not meet in June. The assigned staff continues working diligently toward the Committee's goals.
8. **Funding Committee Report**
 - a) **Chair Maximum Allowable Recommendation** – Over the last few years, the 911 Board has utilized caps on the price of reimbursement for certain equipment. This type of policy has provided consistency and streamlined the review of some purchasing, which saves not only money, but also time for the PSAP and 911 Board staff. Due to supply chain issues and inflation, it was determined the caps on the purchase of equipment needed to be reviewed. Board staff reviewed the invoices for the purchase of telecommunicator chairs, took an average, and rounded them up. Staff recommended an increase of the maximum allowable reimbursement on telecommunicator chairs to increase from \$1,800 to \$2,200. This does not include chairs requested as a reasonable accommodation, for which staff would continue the practice of reviewing costs on a case-by-case basis. The Funding Committee voted unanimously at its last meeting to recommend for approval the staff recommendation to increase the maximum allowable reimbursement for telecommunicator chairs from \$1,800 to \$2,200 and brought this item forward as a motion. Ms. Falco conducted the roll call vote. All members present voted, and the motion carried unanimously. *The roster of roll call votes for all action items for this meeting is included below as part of these minutes.*
 - b) **Workstation PC Maximum Allowable Recommendation** – As with the chairs, staff reviewed the invoices for the purchase of workstation PCs, took an average, and rounded them up. Staff recommended an increase of the maximum allowable reimbursement for workstation PCs to increase from \$1,700 to \$2,300. Mr. Bone asked Ms. Falco to provide additional comments about the staff recommendation. Ms. Falco mentioned one of the Board's approved goals for the Funding Committee was to review the maximum allowable amounts on the Approved Use of Funds List. She noted staff is going to review monitor changes in cost and is encouraging PSAPs to let staff know of price changes. The Funding Committee voted unanimously at its last meeting to recommend as staff had presented to increase the maximum allowable reimbursement for workstation PCs from \$1,700 to \$2,300 and brought this item forward as a motion. Ms. Falco conducted the roll call vote. All members present voted, and the motion carried unanimously. *The roster of roll call votes for all action items for this meeting is included below as part of these minutes.*
 - c) **C/S Tellus Hub CAD to CAD Unify (Cloud) Subscription Allowable Expenditure** – Currently, the Approved Use of Funds list allows for PSAPs to purchase a CAD-to-CAD interface software to be able to send CAD information to another PSAP for dispatch of a 911 call. The Hub subscription service presented for discussion is a new data-sharing technology that enables PSAPs to do more than just send calls for dispatch. Central Square is offering three different cloud-based data-sharing subscription services. The subscription service can be procured not only from Central Square CAD users but from other CAD vendors, as well. Staff recommended reimbursement of 50% of the costs for implementing the Unify Hub subscription and annual recurring costs between primary and/or secondary PSAPs with formal agreements such as SOPs/SOGs/ILAs in place to send and receive 911 calls for dispatch. A healthy discussion of this item was held at the Funding Committee meeting. Mr. Bone asked Ms. Falco to provide additional comments about the Hub subscription service and the recommendation. Ms. Falco noted two of the Board's approved goals for the Technology Committee related to data sharing for PSAPs. She stated, if a PSAP is subscribed to the Hub and loses connectivity, the Hub will only have information up to the point of disconnection. This is not a continuity solution but a great technology for PSAPs to share data. The Funding

Committee voted unanimously at its last meeting to recommend for approval the staff recommendation of 50% for the Unify Hub provided PSAPs can provide formal agreement to receive and dispatch 911 calls (ILAs, SOGs, SOPs) between primary PSAPs and to include secondary PSAPs, and for approval of 100% of the eligible costs of the Unify Hub if the vendor can provide an invoice showing eligible and ineligible costs clearly notated, and brought this forward as a motion. Mr. Foster asked if this is only for the Central Square software or does this vote pertain to other software. Ms. Reeder asked Mr. Bone to re-read the motion and confirm the motion is for the Central Square Unify Hub. Ms. Reeder stated the Unify Hub is a specific offering for the vendor. If the intent is to make it cloud-based then the motion may need to be amended. Mr. Greene noted his intent when making the motion during the Funding Committee meeting was to include any vendor with the technology. Chairman Weaver asked for a recommendation to revise the motion or if Mr. Bone wanted to take it back to the Committee. Mr. Bone responded it was not the intent to make it vendor specific and if Unify is proprietary to the one vendor, they would want to strike it from the motion. Ms. Reeder recommended voting on the Funding Committee motion and then making a new motion with a second and roll call vote. Ms. Falco conducted the roll call vote. All members present voted, and the motion was unanimously denied. *The roster of roll call votes for all action items for this meeting is included below as part of these minutes.*

The Board discussed revisions to the original motion to include a more generic term. Mr. Greene made the motion to approve the staff recommendation of 50% for the CAD-to-CAD cloud-based subscription service such as the Unify Hub provided PSAPs have formal agreements in place to receive and dispatch 911 calls (ILAs, SOGs, SOPs) between primary PSAPs and to include secondary PSAPs, with the motion also providing that for those PSAPs with formal agreements in place, for approval of 100% of the eligible costs of the CAD-to-CAD cloud-based subscription service if the vendor can provide an invoice showing eligible and ineligible costs clearly notated. Mr. Bone seconded the motion. Ms. Falco conducted the roll call vote. All members present voted, and the motion was carried unanimously. *The roster of roll call votes for all action items for this meeting is included below as part of these minutes.*

d) **General Committee Report** – Staff has invested a significant amount of time and energy with review of maximum allowable for the expenses discussed today. Mr. Bone thanked staff for the effort in reviewing current legislation, Administrative Code, and the Approved Use of Funds List, which dictates the review and determination of these items. Staff is also reviewing the Approved Use of Funds List in its totality and plans to bring the list to the Funding Committee in July.

9. **Finance Team Report** – Ms. Tapler has attended several meetings related to PSAP expenditure eligibility and reports. She continues to work on the FCC 911 fee report, federal grant closeout report and attends various committee meetings. Ms. Tapler noted the federal grant closeout report is finished and should be submitted later in the day. The FCC 911 fee report will be reviewed and completed in the following week. She continues to work on financial operations to close out the fiscal year. Ms. Falco performed an analysis on PC workstations, completed eligibility requests, finalized revenue expenditure reports, attended virtual and in-person PAT meetings, worked on logistics for the August PSAP Managers Conference, provided administrative support for the cybersecurity remediation initiative ad-hoc, reviewed the Approved Use of Funds List with staff, and disseminated PSAP distribution letters at the end of May. Ms. Falco and Ms. Templeton reviewed 69 eligibility requests from across the State, including items such as network switches, CAD modules, furniture, time synchronization equipment, radio, and recorder. The total dollar amount of items submitted for eligible and ineligible expenditures for review was \$19,132,435.31. The total cost of allowable expenditures was \$8,268,239.52. Ms. Templeton has been working on similar duties mentioned by Ms. Falco, along with the procurement of an agenda management software to streamline Board staff's processes for both Board and committee meetings. She gave an update on the status of PSAP the revenue expenditure reports as of June 17, 2022. For FY2020, 123 are finalized, two are in the clarification process, and two are awaiting the signed revised report. For FY2021, 93 are finalized, 24 are in the clarification process, and 11 are awaiting the signed revised report.

a) **October 22, 2021, Board Meeting Minutes Correction** - During the closeout review of Currituck's funding reconsideration, Ms. Tapler found the amount noted to be incorrect in the October 22, 2021 minutes. The amount in the Board minutes reflects \$476,255.10. However, the amount noted in the document presented to the Board and the approved Funding Committee minutes reflect \$436,255.14. Ms. Tapler requested the minutes be corrected to the approved amount of \$436,255.14. Mr. Bone made the motion to approve the correction of the October 22, 2021, Board Meeting Minutes as

presented by Ms. Tapler. Ms. Wright seconded the motion. Ms. Falco conducted the roll call vote. All members present voted, and the motion was carried unanimously. *The roster of roll call votes for all action items for this meeting is included below as part of these minutes.*

10. Grant Committee Report

- a) FY2023 Grant Status – Grant applications for the FY2023 grant cycle were due on May 31, 2022. The Grant Committee will be meeting on Wednesday, June 29, 2022, to review the 17 applications received. After the review, the PSAP grant virtual presentations will be scheduled for July 15 or July 20, 2022. The Grant Committee will then meet for a final review of the grants to prepare recommendations that will be presented to the Board at the August meeting for approval.
- b) PSAP Grant Program Progress Reports – Brief updates were provided by grant recipients on the progress of their projects.
 - Wilson County 911 – Mr. Williford presented an update on the tower generator replacement. The generator has been ordered, installed, and tested. The generator was placed in service on May 27, 2021.
 - Alleghany County 911 – Mr. Roten presented an update for Alleghany County's PSAP upgrade and relocation. The renovation portion of the project has been completed. The foundation work for the tower began June 17, 2022. An extension was requested and granted due to supply chain issues.
 - Watauga County 911 – Mr. Holt presented an update on Watauga County's radio project. The only milestone met with the FY2022 project was installation of the fiber connections. Due to the consolidation between Watauga County and Town of Boone, this grant will be rescinded since Watauga County was awarded the Priority One Grant.
 - Pasquotank-Camden County 911 – Ms. Felton presented an update on Pasquotank-Camden's radio upgrade. The fiber connection is complete and being tested. In July, the radio equipment will be installed.
 - Robeson County 911 – Mr. Deese provided an update on Robeson County's end-of-life radio replacement for the backup center. All the equipment has been received and installed with 85% of the configuration completed. The AIS license is the only outstanding item for the grant project.
- c) General Report – Mr. Shipp had nothing further to report.

11. **Standards Committee Report** – The Standards Committee has not recently met. Ms. Gardner provided an update on the PSAP Classification sub-committee describing the discussion on the classification purpose and PSAP size definitions. Ms. Wright added the sub-committee is attempting to type PSAPs across the State based on size, call volume, number of seats, and creating definitions with the information. Ms. Conner gave an update for the PSAP Review sub-committee. The sub-committee began updating the PSAP Review document and is working to update the corrective action plan document. Ms. Conner has been working with procurement and legal counsel on the information for bid (IFB) for a vendor to perform the PSAP reviews. Ms. Wright added the IFB has been posted and the goal is to have vendor presentations in August and a decision in September. After the reviews are caught up, the PSAP Reviews will transition to a Board staff position. Ms. Harris noted development of the PSAP Reviewer job description and creation of a position number are underway with DIT HR.

12. **Technology Committee Report** – Mr. Rogers gave an update on migrations. There are 124 PSAPs operational on the ESInet with three sites remaining. Wilkes County is scheduled for August 30. Northampton County is delayed due to fiber construction. Anson County is delayed and working with the originating service provider (OSP). Current migration demographics include 54 hosted Vesta, 49 hosted Viper, and 21 ESInet only. The total population served by NG911 is 10,477,959 covering 99% of the population. The total land mass covered by NG911 is 47,328.70 square miles, which is 96% of the State. North Carolina Emergency Management (NCEM) 24-Hour Watch is officially moving forward with interconnection to the Statewide ESInet. A Technology Committee ad hoc committee for cybersecurity remediation with members from the 911 Board, staff, Technology Committee members, and State and local representation has been created. The ad hoc committee is discussing remediation opportunities and planning to launch a remediation project in October.

There are 24 sites active on RFAI and 100 as i3. CGIA and GeoComm conducted GIS webinars in each region in April where the *NG911 Days Since Last Upload by PSAP and County* webpage was debuted. The map highlights the frequency of GIS updates and supports the governance policy being developed. The map will be used to monitor compliance for making timely updates to the i3 data set.

A weekly data report is sent to Regional Coordinators, PSAP Managers, and GIS Managers to ensure data is uploaded timely. The RapidDeploy data analytics project schedule is in progress to determine timelines and more information will be forthcoming. The SIP admin pilot project for Perquimans County and Union County will be in effect on June 29. The first ported line and testing for Union County will occur on July 6 and Perquimans County on July 15. Mr. Dotson provided an update from Human Resources for the two newly created positions to convert the NMAC contractors to State employees. Mr. Dotson and Mr. Rogers have met with a designer for the NMAC and staff office relocation to the DIT headquarters facility.

- a) AT&T/Intrado Issue Resolution Status – Mr. Briggs from AT&T gave a summary of the OSP migrations. The network change notices were sent out to all 68 providers on May 20. The level three technician from Intrado remains assigned and on site in Raleigh working with the NMAC technicians and staff to address any Viper issues. The Viper 7 merge product statement of work is being finalized and will be presented to Ms. Harris.
- b) General Committee Report – Comments referenced above during Mr. Rogers' opening comments.

13. 911 Regional Coordinator Reports – Ms. Conner conducted PSAP visits, worked on the PSAP review IFB, reviewed grant application submissions, amended the backup plan document, met with PSAPs to review backup plans, and is gathering information from the 2021 PSAP Managers course graduates that will be recognized at the August meeting. Ms. Turbeville attended the NC Public Safety Communications conference in May. She has held six in-person PSAP meetings, reviewed the Approved Use of Funds List with staff, reviewed FY2023 grant applications, assisted grant recipients on the grant closeouts, and worked on updating the backup plan document. After receiving the GIS report, she has fielded inquiries from PSAP Managers for uploading and maintaining GIS data for i3 call routing. Mr. Newberry stated he has completed many of the same tasks already mentioned and attended the Macon County migration. Ms. Gardner stated she completed the 911 database report and has attended or participated in 119 meetings related to several of the tasks previously mentioned for her region and other administrative matters.

14. Other – Ms. Harris is finalizing the FCC 911 fee report for submission. The performance period for the Federal grant that began in August 2019, closed in March 2022. Ms. Harris and Ms. Tapler are preparing the close-out documentation for submission.

15. Ratification of ESInet Points of Interconnection (POIs) – Mr. Shipp made a motion that the Board go into closed session pursuant to G.S. 143-318.11(a)(1) to protect proprietary information as set forth in G.S. 143B-1412, which is not subject to disclosure under Chapter 132 of the General Statutes. Mr. Bone seconded the motion. Ms. Falco conducted the roll call vote. All members present voted, and the motion was carried unanimously. *The roster of roll call votes for all action items for this closed session meeting is included below as part of these minutes. Mr. Greene recused himself from this item.*

Ms. Harris provided logistic information for utilization of Teams for the virtual closed session.

The closed session of the Board convened at 11:55 AM with a roll call of Board members, staff, and guests present in the closed session.

Ms. Reeder reminded the Board members that when meeting in closed session, the Board members should restrict their discussion to only the matter before them. Ms. Reeder stated that the reason for the closed session was to discuss and ratify the Points of Interconnection, known as POIs, for the ESInet. The legal reason this was being discussed in closed session is the specific location of the POIs are proprietary information pursuant to G.S. 143B-1412. Therefore, it is confidential and cannot be discussed in an open session. Ms. Reeder discussed G.S. 143B-1406(e1) and presented the Board members with a table showing the specific location of the Points of Interconnection (POIs) submitted by AT&T for the ESInet, including the cities and LATA, and CILI codes. She recommended the Board, in its open session, ratify its contract with AT&T and the POIs established by AT&T through the contract.

Mr. Shipp made a motion that the Board return to open session to vote on the issues discussed in the closed session. Mr. Bone seconded the motion. Ms. Falco conducted the roll call vote. All members present voted, and the motion was carried unanimously. *The roster of roll call votes for all action items for this closed session meeting is included below as part of these minutes.*

The closed session of the Board ended at 12:14 PM.

The Board reconvened in open session at 12:15 PM. Ms. Falco conducted a roll call of Board members. Mr. Greene noted he was present and is recused from this item. Mr. Shipp made the motion for the Board to ratify the POIs established by AT&T through the Board's ESInet contract, which was entered into in 2017. Those seven (7) POIs located in NC are proprietary as set forth in G.S. 143B-1412, and therefore the specific locations are not subject to disclosure in an open meeting. The Board discussed the specific locations in closed session. Generally speaking, they are located in Charlotte (where there are two), Winston Salem, Fayetteville, Jacksonville, Greenville, and Kinston. Ratification of these points confirms the Board's compliance with G.S. 143B-1406(e1)(2) and reaffirms the Board's commitment to the establishment of a fully functional ESInet for the benefit of everyone in North Carolina. The motion was seconded by Ms. Wright. Ms. Falco conducted the roll call vote. All members present voted, and the motion was carried unanimously. *The roster of roll call votes for all action items for this meeting is included below as part of these minutes. Mr. Greene recused himself from this item.*

Roster of Roll Call Votes for Open Session:

NORTH CAROLINA 911 BOARD MEETING ROLL CALL VOTE Friday, June 24, 2022						
NC 911 Board Members	4. Consent Agenda	8. a) Chair Maximum Allowable Recommendation	8. b) Workstation PC Maximum Allowable Recommendation	8. c) C/S Tellus Hub CAD to CAD Unify (Cloud) Subscription Allowable Expenditure	8. c2) CAD to CAD Cloud Based Subscription Service Allowable Expenditure	9. a) October 21, 2021 Board Meeting Minutes Correction
David Bone, Executive Director, Eastern Carolina Council (NCACC)	Y	Y	Y	N	Y	Y
Tommy Cole, Fire Chief, City of Graham (NC SFA)	Y	Y	Y	N	Y	Y
Greg Coltrain, VP Business Development, Wilkes Communication/River Street (LEC)	Excused	Excused	Excused	Excused	Excused	Excused
Brian Drew, Manager of Customer Design and Implementation, CenturyLink/Lumen (LEC)	Excused	Excused	Excused	Excused	Excused	Excused
Bo Ferguson, Deputy City Manager, City of Durham (NCLM)	Excused	Excused	Excused	Excused	Excused	Excused
Greg Foster, Director of Communications, Alexander County (NC Association of Rescue EMS)	Y	Y	Y	N	Y	Y
Chuck Greene, Director of Government Affairs, AT&T (LEC)	Y	Y	Y	N	Y	Y
J.D. Hartman, Sheriff, Davie County (NC Sheriff's Association)	Y	Y	Y	N	Y	Y
Lee Kerlin, RF Engineer, TMobile Sprint (CMRS)	Y	Y	Y	N	Y	Y
Jeff Ledford, Chief, City of Shelby Police Department (NCACP)	Y	Y	Y	N	Y	Excused
John Moore, Regional Manager, Government and Education Sales, Spectrum Communications (VoIP)	Excused	Excused	Excused	Excused	Excused	Excused
Melanie Jones, Director, Guilford-Metro 911 (APCO)	Y	Y	Y	N	Y	Y
Jude O'Sullivan, Chief Customer Officer, Carolina West (CMRS)	Y	Y	Y	N	Y	Y
Jeff Shipp, Vice President of Operations (Ret.), Star Telephone (LEC)	Y	Y	Y	N	Y	Y
Earl Struble, Sr. Manager Verizon Response, Verizon Wireless (CMRS)	Y	Y	Y	N	Y	Y
Secretary Jim Weaver, 911 Board Chair (NC DIT)	Y	Y	Y	N	Y	Y
Donna Wright, Director (Ret.), Richmond CO Emergency Services (NENA)	Y	Y	Y	N	Y	Y

Roster of Roll Call Votes for Closed Session:

NORTH CAROLINA 911 BOARD MEETING ROLL CALL AND VOTE ITEM 15 Friday, June 24, 2022					
NC 911 Board Members	Roll Call Vote to Move to Closed Session	Roll Call	Roll Call Vote to Move to Open Session	Roll Call	15. Ratification of E911 Points of Interconnection (POIs)
David Bone, Executive Director, Eastern Carolina Council (NCAACC)	Y	Present	Y	Present	Y
Tommy Cole, Fire Chief, City of Graham (NCSFA)	Y	Present	Y	Excused	Excused
Greg Coltrain, VP Business Development, Wilkes Communication/River Street (LEC)	Excused	Excused	Excused	Excused	Excused
Brian Drew, Manager of Customer Design and Implementation, CenturyLink/Lumen (LEC)	Excused	Excused	Excused	Excused	Excused
Bo Ferguson, Deputy City Manager, City of Durham (NCLM)	Excused	Excused	Excused	Excused	Excused
Greg Foster, Director of Communications, Alexander County (NC Association of Rescue EMS)	Y	Present	Not Present	Present	Y
Chuck Greene, Director of Government Affairs, AT&T (LEC)	Recused	Recused	Recused	Recused	Recused
J.D. Hartman, Sheriff, Davie County (NC Sheriff's Association)	Y	Present	Y	Present	Y
Lee Kerlin, RF Engineer, TMobile Sprint (CMRS)	Y	Present	Y	Present	Y
Jeff Ledford, Chief, City of Shelby Police Department (NCACP)	Excused	Excused	Excused	Excused	Excused
John Moore, Regional Manager, Government and Education Sales, Spectrum Communications (VoIP)	Excused	Excused	Excused	Excused	Excused
Melanie Jones, Director, Guilford-Metro 911 (APCO)	Y	Present	Y	Present	Y
Jude O'Sullivan, Chief Customer Officer, Carolina West (CMRS)	Y	Present	Y	Present	Y
Jeff Shipp, Vice President of Operations (Ret.), Star Telephone (LEC)	Y	Present	Y	Present	Y
Earl Struble, Sr. Manager Verizon Response, Verizon Wireless (CMRS)	Y	Present	Y	Present	Y
Secretary Jim Weaver, 911 Board Chair (NC DIT)	Y	Present	Y	Present	Y
Donna Wright, Director (Ret.), Richmond CO Emergency Services (NENA)	Y	Present	Y	Present	Y
Staff					
Kristen Falco		Present		Present	
Pokey Harris		Present		Present	
Tom Rogers		Present		Present	
Amanda Reeder		Present		Present	
Marsha Tapler		Present		Present	
Sarah Templeton		Present		Present	
Guests					
Josh Briggs (AT&T)		Present		Present	
Susan Rodocker (AT&T)		Present		Present	

Adjourn – Chairman Weaver adjourned the meeting at 12:19 PM.

*Next NC 911 Board Meeting - Friday, August 26, 2022, 09:00 AM – 11:00 AM
Greensboro, NC, Logistics Forthcoming*

****Tentatively No Meeting Scheduled for July 2022****



Tab 4 b – e)

b)NG 911 Reserve Fund

June 2022 Fund Balance	\$ 76,125,411
June 2022 Disbursement	\$ 3,709,069
July 2022 Fund Balance	\$ 76,694,111
July 2022 Disbursement	\$ 2,419,955

c)CMRS Account

June 2022 Account Balance	\$ 2,787,472
June 2022 Disbursement	\$ 0.00
July 2022 Account Balance	\$ 2,510,610
July 2022 Disbursement	\$ 385,149

d)PSAP Account

June 2022 Account Balance	\$ 18,228,802
June 2022 Disbursement	\$ 3,904,705
July 2022 Account Balance	\$ 20,503,778
July 2022 Disbursement	\$ 3,520,937

e)PSAP Grant/Statewide Projects Account

June 2022 Account Balance	\$ 23,594,722
Grant Funds Committed	\$ 21,804,586
July 2022 Account Balance	\$ 21,050,502
Grant Funds Committed	\$ 22,598,799

Next Generation 911 Reserve Fund

FY2022 beginning Fund Balance:	\$85,360,511.79											
	July 2021	August 2021	September 2021	October 2021	November 2021	December 2021	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022
Service Charge Receipts	\$2,335,821.52	\$1,896,826.06	\$1,800,548.33	\$1,658,576.88	\$1,914,079.15	\$1,650,710.39	\$2,007,327.70	\$1,787,682.57	\$1,770,057.84	\$1,757,896.23	\$1,892,485.51	\$1,852,890.57
Interest allocation	\$15,841.12	\$0.00	\$11,255.06	\$9,493.67	\$12,916.85	\$10,094.83	\$6,330.33	\$9,910.43	\$9,582.09	\$13,725.97	\$14,496.85	\$23,174.47
PSAP Grant/Statewide Project Allocation (In)												
NG 911 Reserve Fund Disbursement	-\$1,184,566.79	-\$2,601,855.15	-\$4,002,279.62	-\$2,639,619.17	-\$2,765,310.21	-\$2,230,850.35	-\$480,517.06	-\$3,823,795.78	-\$2,271,233.74	-\$2,143,324.02	-\$3,844,404.82	-\$3,709,068.59
NG 911 Reserve Fund Balance	\$86,527,607.64	\$85,822,578.55	\$83,632,102.32	\$82,660,553.70	\$81,822,239.49	\$81,252,194.36	\$82,785,335.33	\$80,759,132.55	\$80,267,538.74	\$79,895,836.92	\$77,958,414.46	\$76,125,410.91

CMRS Account

FY2022 beginning Account Balance:	\$3,315,649.38											
	July 2021	August 2021	September 2021	October 2021	November 2021	December 2021	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022
CMRS Service Charge Receipts	\$0.00	\$103,442.00	\$101,584.21	\$91,253.04	\$114,643.08	\$96,169.43	\$114,013.13	\$101,902.92	\$101,610.70	\$97,458.21	\$105,651.58	\$119,227.50
Interest allocation	\$615.32	\$0.00	\$402.44	\$352.94	\$469.78	\$365.88	\$223.02	\$356.36	\$340.29	\$470.31	\$504.43	\$792.95
CMRS Allocation (out)												
CMRS Disbursement	-\$187,291.72	-\$163,701.20	-\$61,555.25	-\$194,434.08	-\$155,869.40	-\$199,501.02	\$0.00	-\$211,096.22	-\$219,612.28	-\$68,196.00	-\$218,769.74	\$0.00
CMRS Account Balance	\$3,128,972.98	\$3,068,713.78	\$3,109,145.18	\$3,006,317.08	\$2,965,560.54	\$2,862,594.83	\$2,976,830.98	\$2,867,994.04	\$2,750,332.75	\$2,780,065.27	\$2,667,451.54	\$2,787,471.99

PSAP Account

FY2022 beginning Account Balance:	\$8,376,978.19											
	July 2021	August 2021	September 2021	October 2021	November 2021	December 2021	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022
Service Charge Receipts	\$3,052,966.06	\$3,272,633.05	\$3,213,827.39	\$2,886,979.06	\$3,626,971.70	\$3,042,519.34	\$3,607,041.94	\$3,223,910.46	\$3,214,665.32	\$3,083,292.64	\$3,342,506.95	\$3,772,009.64
Wireline Service Charge Receipts	\$415,257.57	\$427,849.50	\$448,078.90	\$418,606.45	\$404,100.06	\$325,005.69	\$529,189.19	\$393,040.05	\$322,225.38	\$440,181.29	\$458,821.74	\$398,367.99
VOIP Service Charge Receipts	\$826,903.01	\$815,763.88	\$820,970.68	\$742,855.97	\$775,382.11	\$684,054.40	\$949,241.98	\$741,940.32	\$800,953.61	\$848,433.95	\$951,093.70	\$824,269.17
Prepaid Wireless Service Charge Receipts	\$799,466.88	\$797,471.16	\$858,105.40	\$873,731.03	\$864,642.30	\$841,898.54	\$868,117.94	\$926,613.23	\$910,947.04	\$844,274.89	\$862,393.56	\$486,908.46
Interest allocation	\$1,554.59	\$0.00	\$1,453.27	\$301.61	\$630.31	\$759.93	\$584.94	\$1,187.10	\$1,384.37	\$2,202.82	\$2,642.75	\$4,948.61
Subtotal	\$5,096,148.11	\$5,313,717.59	\$5,342,435.64	\$4,922,474.12	\$5,671,726.48	\$4,894,237.90	\$5,954,175.99	\$5,286,691.16	\$5,250,175.72	\$5,218,385.59	\$5,617,458.70	\$5,486,503.87
PSAP Allocation (out)			-\$10,221,234.00									
PSAP Distributions	-\$4,159,451.48	-\$3,545,823.03	-\$3,545,823.03	-\$3,545,823.03	-\$3,545,823.03	-\$3,545,823.03	-\$3,545,823.03	-\$3,535,303.11	-\$4,036,069.21	-\$3,535,303.11	-\$3,535,303.11	-\$3,904,704.88
PSAP Account Balance	\$9,313,674.82	\$11,081,569.38	\$2,656,947.99	\$4,033,599.08	\$6,159,502.53	\$7,507,917.40	\$9,916,270.36	\$11,667,658.41	\$12,881,764.92	\$14,564,847.40	\$16,647,002.99	\$18,228,801.98

OSC Certified

Cash Basis

Next Generation 911 Reserve Fund

FY2023 beginning Fund Balance:	\$76,125,410.91
	July 2022
Service Charge Receipts	<u>\$1,949,712.24</u>
Interest allocation	<u>\$38,942.83</u>
PSAP Grant/Statewide Project Allocation (In)	
NG 911 Reserve Fund Disbursement	<u>-\$2,419,954.90</u>
NG 911 Reserve Fund Balance	<u>\$75,694,111.08</u>

CMRS Account

FY2023 beginning Account Balance:	\$2,787,471.99
	July 2022
CMRS Service Charge Receipts	<u>\$106,860.38</u>
Interest allocation	<u>\$1,425.96</u>
CMRS Allocation (out)	
CMRS Disbursement	<u>-\$385,148.64</u>
CMRS Account Balance	<u>\$2,510,609.69</u>

PSAP Account

FY2023 beginning Account Balance:	\$18,228,801.98
	July 2022
Service Charge Receipts	<u>\$3,380,749.25</u>
Wireline Service Charge Receipts	<u>\$389,227.04</u>
VOIP Service Charge Receipts	<u>\$870,695.26</u>
Prepaid Wireless Service Charge Receipts	<u>\$1,145,916.41</u>
Interest allocation	<u>\$9,325.15</u>
Subtotal	<u>\$5,795,913.11</u>
PSAP Allocation (out)	
PSAP Distributions / Reconsiderations	<u>-\$3,520,937.37</u>
PSAP Account Balance	<u>\$20,503,777.72</u>

OSC Uncertified
Cash Basis

PSAP Grant-Statewide 911 Projects Account

		Total Disbursed		Remaining
		YTD	Jul-22	Expenditures
			\$45,399,308.01	
FY2019	Award Amount			
Greene G2019-03 (069)	841,964.00	-764,644.42	-77,319.58	0.00
FY2020	Award Amount			
Currituck G2020-04 (077)	583,655.00	0.00	-332,700.00	0.00
Franklin G2020-05 (078)	3,958,873.00	-265,291.30	-662,457.80	3,031,123.90
Cumberland G2020-06 (079)	2,251,387.00	-293,298.21		1,958,088.79
FY2021				
Bladen County (084)	\$334,937.99	-113,021.92		221,916.07
Clay County G2021-02 (087)	2,500,000.00	-177,442.26	-25,934.40	2,296,623.34
Sampson County (088)	\$5,479,453.00	-2,583,536.38	-875,431.56	2,020,485.06
Union Count (086)	\$484,021.00	-174,021.00		310,000.00
FY2022				
Alleghany County G2022-01 (091)	\$135,000.00	0.00		135,000.00
Burke County G2022-03 (093)	\$135,303.57	0.00		135,303.57
Pasquotank-Camden County G2022-04 (094)	\$331,021.40	0.00	-6,000.00	325,021.40
Robeson Co G2022-05 (095)	\$106,899.99	-325,021.40		-218,121.41
Onslow/Jacksonville G2022-06 (096)	\$675,088.00	0.00		675,088.00
Polk Count G2202-08 (098)	\$2,412,964.00	0.00		2,412,964.00
Chowan County G2022-09 (099)	\$136,781.62	0.00		136,781.62
Watauga County P1-2202	\$2,797,012.69	0.00		2,797,012.69
STATEWIDE PROJECTS:	Award Amount			
Data Analytics (012) January-June 2022 (012)	\$337,980.19	-\$260,850.20	-53,610.04	23,519.95
ATT Data Analytics Jan-Dec 2022 (090)	\$926,000.00	0.00		926,000.00
Interpretive Services (042)	\$351,404.75	0.00	-31,404.75	320,000.00
CRM Statewide Development (066)	\$700,000.00	-151,745.74	-1,023.94	547,230.32
Ortho Project III Image 22 (089) (MGJ)	\$3,430,142.00	-1,676,610.98	-532,769.19	1,220,761.83
Ortho Project III Image 23 (100)	\$3,324,000.00	0.00		3,324,000.00
Approved Allocation from PSAP & Transfer out to NG 911 Fund				
Interest			23,224.54	
Revenue 5%			825,419.60	
Total Ending Fund Balance		\$ 45,399,308.01	\$43,649,300.89	

Cash Basis Reporting
OSC - Uncertified report

Committed: \$22,598,799.13
Grant Account Balance \$21,050,501.76

PSAP Grant-Statewide 911 Projects Account

		Total Disbursed	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Remaining
		YTD													Expenditures
			\$37,798,380.35	\$37,659,648.79	\$38,274,358.29	\$48,861,483.46	\$48,096,547.59	\$48,872,124.72	\$49,302,688.27	\$50,117,231.82	\$48,755,376.25	\$47,753,732.44	\$46,551,268.66	\$45,998,167.71	
FY2019	Award Amount														
Greene G2019-03 (069)	841,964.00	-118,547.55	-161,722.04								-484,374.83				77,319.58
FY2020	Award Amount														
NC State Highway Patrol G2020-02 (075)	1,102,933.00	0.00				-1,102,933.00									0.00
Currituck G2020-04 (077)	583,655.00	0.00													583,655.00
Franklin G2020-05 (078)	3,958,873.00	0.00												-265,291.30	3,693,581.70
Cumberland G2020-06 (079)	2,251,387.00	0.00	-293,298.21												1,958,088.79
Chatham G2020-07 (080)	2,339,608.00	0.00									-903,423.00	-1,436,185.00			0.00
FY2021															
Bladen County (084)	\$334,937.99	0.00	-113,021.92												221,916.07
Clay County G2021-02 (087)	2,500,000.00	-56,575.26	-33,549.67			-18,115.90			-4,053.71	-3,497.88	-2,394.41	-10,524.21		-48,731.22	2,322,557.74
Sampson County (088)	\$5,479,453.00	-55,216.72		-158,112.44	-298,157.74	-294,576.32		-222,406.89		-907,470.88	-137,275.67	-276,274.85	-234,044.87		2,895,916.62
Union Count (086)	\$484,021.00	0.00									-125,000.00	-49,021.00			310,000.00
Wilson County (083)	\$35,900.00	0.00			-35,900.00										0.00
FY2022															
Alleghany County G2022-01 (091)	\$135,000.00	0.00													135,000.00
Watauga County G2022-02 (092)	\$154,130.86	0.00												-13,352.00	0.00
Burke County G2022-03 (093)	\$135,303.57	0.00													135,303.57
Pasquotank-Camden County G2022-04 (09)	\$331,021.40	0.00											-325,021.40		6,000.00
Robeson Co G2022-05 (095)	\$106,899.99	0.00													106,899.99
Onslow/Jacksonville G2022-06 (096)	\$675,088.00	0.00													675,088.00
Wilson County G2022-07 (097)	\$108,250.50	0.00												-108,250.50	0.00
Polk Count G2202-08 (098)	\$2,412,964.00	0.00													2,412,964.00
Chowan County G2022-09 (099)	\$136,781.62	0.00													136,781.62
Watauga County P1-2202	\$2,797,012.69	0.00													2,797,012.69
STATEWIDE PROJECTS:	Award Amount														
Data Analytics (012) January-December 20	\$1,458,380.00	-529,258.04	-69,746.84		-68,395.84	-80,231.84	-73,326.84	-75,785.84	-68,585.84						0.00
Data Analytics (012) January-June 2022 (0	\$337,980.19	\$0.00												-260,850.20	77,129.99
ATT Data Analytics Jan-Dec 2022 (090)	\$926,000.00	0.00													926,000.00
Interpretive Services (042)	\$365,341.25	0.00	-25,683.75		-54,960.75	-28,089.00	-28,647.75	-27,596.25	-29,079.75	-26,118.00	-26,358.00	-28,626.75		-58,596.00	31,585.25
Ortho Project III Image 20 (073) (MGL)	\$4,108,739.00	-3,185,491.08													0.00
CRM Statewide Development (066)	\$700,000.00	-135,213.40	-1,024.10	-36,167.23	-145.00	-435.00				-207.58		-2,038.94	-17.88	23,503.39	548,254.26
Ortho Project III Image 21 (081) (MGI)	\$3,723,908.00	-1,542,668.59	-281,921.59	-16,585.10						-1,240,697.30		-193,157.80	-41,518.53	-14,762.64	0.00
Ortho Project III Image 22 (089) (MGJ)	\$3,430,142.00	0.00									-133,174.50	-13,845.00	-821,165.52	-708,425.96	1,753,531.02
Approved Allocation from Transfer out to NG 911 Fund					10,221,234.00										
Interest			7,014.59	0.00	5,019.43	5,546.61	7,515.75	6,029.61	3,841.16	5,999.65	5,784.84	8,166.02	8,446.58	13,673.74	
Revenue 5%			834,221.97	825,574.27	818,431.07	753,898.58	870,035.97	750,322.92	912,421.69	810,136.42	804,571.76	799,043.75	860,220.67	842,222.99	
Total Ending Fund Balance		\$ 37,798,380.35	\$37,659,648.79	\$38,274,358.29	\$48,861,483.46	\$48,096,547.59	\$48,872,124.72	\$49,302,688.27	\$50,117,231.82	\$48,755,376.25	\$47,753,732.44	\$46,551,268.66	\$45,998,167.71	45,399,308.01	

Cash Basis Reporting
 OSC -Certified report

Committed: **\$21,804,585.89**
 Grant Account Balance **\$23,594,722.12**

Tab 4 f)

Grant Project Updates per Reports



Alleghany County Emergency Management

348 South Main Street – PO Box 1233 – Sparta, NC 28675

Monthly Progress Report

Current Activity – June 2022

Renovation work on the space is nearly complete, awaiting network cabling and new equipment (servers, computers, etc..) that are 911 eligible.

Tower construction has begun, the foundation is complete and the tower is expected to be delivered the week of July 11.

In a relevant project, the pad for the generator has been completed. Supply chain issues persist with the generator and transfer switch

Maintaining budget awareness

Next Month Activity – July 2022

Expecting to have network cabling installed by end of month.

The tower should be erected by the end of the month.

Awaiting delivery of the new consoles (911 eligible), expected end of July or early August.



Burke County Emergency Communications Center
"Saving Lives One Call at a Time"



July 5, 2022

June Grant Progress Report:

June 2,2022	Data Conversion Issues Call
June 9, 2022	Project Status Call
June 23, 2022	Project Status Call

At this point data conversion is still not complete and Motorola wants to charge more money. The agencies are discussing whether to pay or claim the costs belong to Motorola. Also in discussion as to whether the product will be ready for a projected Go Live in August.

Projected July Accomplishments

Complete Data Conversion

Determine an actual Go Live date.

Find a solution for remaining unit recommend issues



Burke County Emergency Communications Center
"Saving Lives One Call at a Time"



July 5, 2022

May Grant Progress Report:

May 12,2022	Project Status Call
May 19,2022	Project Manager on site to discuss data conversion
May 26, 2022	Project Status Call
May 31, 2022	Code tables issues call

Projected June Accomplishments

Complete Data Conversion



Chowan County Sheriff's Office

Edward B. Basnight, Sheriff

(Ms.) L.V. Pokey Harris, MPA, ENP
Executive Director
North Carolina 911 Board
NC Department of Information Technology

Pokey,
Good Afternoon.

Here is an update for the radio project that is going on in Perquimans county for the Chowan County Backup center.

Chowan:

Three (3) new MCC7500E console positions will be provided and installed at the Chowan County Emergency Backup Operations Center. These console positions will become part of the Perquimans County console site and utilize the current Perquimans County back room equipment and leased Ethernet connection to the Viper Master Site Instant Recall Recorder software for each operator position is included. One twenty-two (22) touch screen monitor display is included for each operator position. Motorola is providing two (2) Conventional Channel Gateway (CCGW) to be added to the Perquimans County Console site. The proposed equipment will be utilized with 800 MHz control stations on site as backup communications in the event of a console to Master site link failure. Motorola is providing six (6) 800 MHz APX Consoletts RF control stations for Chowan County as part of this project.

1. Equipment

- All Equipment has been installed and is up and running.



Chowan County Sheriff's Office

Edward B. Basnight, Sheriff

2. Schedule

- Training was completed June 6th, 7th and 8th
- Installation & optimization is scheduled for June 9th and 10th with final cutover June 14th
- June is Final Acceptance

With all of that being said we are still on track to have this project up and running and closed in Q2. As of today all invoices have been given to finance and asked to be paid. From my understanding this project should be marked as Complete.

Please let me know if you need anything further.

Sincerely,

Herman A. Weiss
911 Director
Chowan County Sheriff Office.



Clay County, NC Grant Report – July 2022

Activities – July 2022

- Continued detailed design drawing review
- Reviewed cost estimates on facility
- Reviewed project budgets
- Finalized facility options for radio tower
- Communicated regularly with project team (ongoing)

Anticipated Activities – August 2022

- Complete detailed design drawings
- Review construction documents
- Begin coordination with technology vendors
- Communicate regularly with project team (ongoing)

Clay County, NC Grant Report – July 2022

The tasks listed below will be tracked throughout the project duration and will be updated monthly. Any changes will be noted in the monthly report.

Work Plan

Task	Projected Timeframe ¹	Actual	Completed
Contract for project oversight	Months 1-2	December 2020	X
Issue RFQ for architectural services	Months 2-3 (December 2020 – January 2021)	December 2020	X
Select architect and contract for services	Months 4-5 (February – March 2021)	February 2021	X
Negotiate fee with architect	Months 5-6 (March – April 2021)	March 2021	X
Define technology needs in conjunction with building design	Months 3-12 (January – October 2021)	June 2022	X
Facility design and construction document process	Months 4-11 (February – September 2021)	July 2022	
Bid and award construction project	Months 16-18 (February – April 2022)		

¹ As the grant agreement was signed in late October 2020, month 1 is considered November 2020.

Clay County, NC Grant Report – July 2022

Task	Projected Timeframe ¹	Actual	Completed
Establish lead times for major technology systems, including NG911	Months 20-22 (June – August 2022)		
Proceed with construction, including coordination with migration to the State ESInet NG911 network	Months 20-32 (June 2022 – June 2023)		
Procure new technology and furnishings	Months 20-26 (June – December 2022)		
Substantial completion of construction, address any facility punch list issues	Month 30 (April 2023)		
Install, test, and accept new technology: existing equipment and the CAD system will be relocated to the new site prior to and during go-live to ensure that the old and new center remain operational until the transition is complete	Months 30-34 (April – August 2023)		
Go-live / Physically transition the Clay County primary PSAP to the new facility and the State ESInet NG911 system	Months 34-36 (August – October 2023)		
Monitor systems post cutover	Month 36 (October 2023)		



Clay County, NC Grant Report – June 2022

Activities – June 2022

- Review site / civil design
- Review detailed design drawings
- Technology review of existing and new equipment
- Finalize facility options for radio tower
- Communicate regularly with Project Team (ongoing)

Anticipated Activities – July 2022

- Continue review of detailed design drawings
- Prepare for cost estimates on facility
- Review project budgets
- Begin coordination with technology vendors
- Communicate regularly with Project Team (ongoing)

Clay County, NC Grant Report – June 2022

The tasks listed below will be tracked throughout the project duration and will be updated monthly. Any changes will be noted in the monthly report.

Work Plan

Task	Projected Timeframe ¹	Actual	Completed
Contract for project oversight	Months 1-2	December 2020	X
Issue RFQ for architectural services	Months 2-3 (December 2020 – January 2021)	December 2020	X
Select architect and contract for services	Months 4-5 (February – March 2021)	February 2021	X
Negotiate fee with architect	Months 5-6 (March – April 2021)	March 2021	X
Define technology needs in conjunction with building design	Months 3-12 (January – October 2021)	June 2022	X
Facility design and construction document process	Months 4-11 (February – September 2021)	July 2022	
Bid and award construction project	Months 16-18 (February – April 2022)		

¹ As the grant agreement was signed in late October 2020, month 1 is considered November 2020.

Clay County, NC Grant Report – June 2022

Task	Projected Timeframe ¹	Actual	Completed
Establish lead times for major technology systems, including NG911	Months 20-22 (June – August 2022)		
Proceed with construction, including coordination with migration to the State ESInet NG911 network	Months 20-32 (June 2022 – June 2023)		
Procure new technology and furnishings	Months 20-26 (June – December 2022)		
Substantial completion of construction, address any facility punch list issues	Month 30 (April 2023)		
Install, test, and accept new technology: existing equipment and the CAD system will be relocated to the new site prior to and during go-live to ensure that the old and new center remain operational until the transition is complete	Months 30-34 (April – August 2023)		
Go-live / Physically transition the Clay County primary PSAP to the new facility and the State ESInet NG911 system	Months 34-36 (August – October 2023)		
Monitor systems post cutover	Month 36 (October 2023)		

Woodson "Gene" Booth
Director



Emergency Services Department

Gene Booth
131 Dick St.
Fayetteville, NC 28301
July 29, 2022

L.V. Pokey Harris, Executive Director
P.O. BOX 17209
Raleigh, NC 27609

RE: CUMBERLAND COUNTY FY2020 GRANT REPORT

Dear Ms. Harris,

This letter is to provide an update on the FY2020 911 Board Grant. During the month of July 2022, Engineered Construction Company (ECC) along with sub-contractors continued focus on interior finishes and flooring. Work in the data center including instillation of cabling for the 911 center and AV equipment The communications shelter is to be delivered August 26th. As you may recall in the last report is was to be delivered at the end of July.

On-going project meetings with AT&T July 12, 26. Challenges with the diverse routing is causing delays for 911 equipment instillation by the NC 911 Board contractors. No updates as of July 29th on the diverse routing status Construction progress meetings were held July 7th, and July 23rd. If you have any questions do not hesitate to reach out.

A handwritten signature in blue ink that reads "Gene Booth".

Gene Booth, Director
Cumberland County Emergency Services

Woodson "Gene" Booth
Director

CUMBERLAND COUNTY

NORTH CAROLINA

Emergency Services Department



Ceiling tiles, lockers and flooring installed.



Woodson "Gene" Booth
Director

CUMBERLAND COUNTY

NORTH CAROLINA

Emergency Services Department



Law Enforcement Center, 131 Dick Street, Room 114 | P.O. Box 1829 | Fayetteville, North Carolina 28301
Phone: 910-678-7688 | Fax: 910-677-5552

co.cumberland.nc.us

Woodson "Gene" Booth
Director



Emergency Services Department

Gene Booth
131 Dick St.
Fayetteville, NC 28301
June 30, 2022

L.V. Pokey Harris, Executive Director
P.O. BOX 17209
Raleigh, NC 27609

RE: CUMBERLAND COUNTY FY2020 GRANT REPORT

Dear Ms. Harris,

This letter is to provide an update on the FY2020 911 Board Grant. During the month of June 2022, Engineered Construction Company (ECC) along with sub-contractors continued focus on interior work. Work in the data center including CRAC unit controls, bus bars, and server rack installation, The UPS and batteries were delivered, the UPS bypass is still on back order. The communications shelter is to be delivered at the end of July.

On-going project meetings with AT&T June 14th. Challenges with the diverse routing is causing delays for 911 equipment installation by the NC 911 Board contractors. No updates as of June 30th on the diverse routing status. Construction progress meetings were held June 9th, and June 23rd. If you have any questions do not hesitate to reach out.

A handwritten signature in blue ink that reads "Gene Booth".

Gene Booth, Director
Cumberland County Emergency Services

Woodson "Gene" Booth
Director

CUMBERLAND COUNTY

NORTH CAROLINA

Emergency Services Department



UPS and Battery Cabinets



Generator Installed

Law Enforcement Center, 131 Dick Street, Room 114 | P.O. Box 1829 | Fayetteville, North Carolina 28301

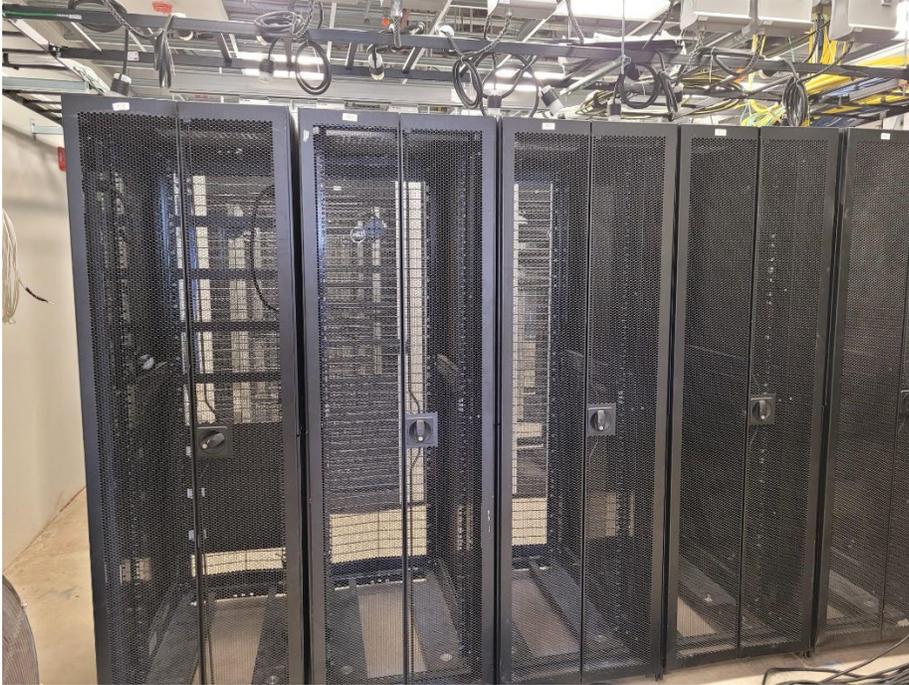
Phone: 910-678-7688 | Fax: 910-677-5552

co.cumberland.nc.us

Woodson "Gene" Booth
Director

CUMBERLAND
COUNTY
NORTH CAROLINA

Emergency Services Department



Server Racks Installed



Franklin County, NC Grant Report – July 2022

Activities – July 2022

- **Construction:**
 - Steel on-site
 - Load bearing masonry is complete
- **Technology:**
 - Reviewed dispatch furniture proposals
 - Continued coordination meetings with AT&T
 - Began vendor coordination and quotes with technology vendors
 - Finalized appliances and FFE plan
 - Follow-ups with access control/security vendor
 - Continued meetings with radio vendor for updates/planning
 - Coordinated other technology meetings
 - Received quotes for timeserver

Anticipated Activities – August 2022

- **Construction:**
 - Install water line
 - Plumbing and electrical rough in underway in CMU walls
 - Steel erection underway
 - Roof slab poured
 - Drywall framing will begin
- **Technology:**
 - Finalize procurement for dispatch furniture
 - Continue coordination meetings with AT&T
 - Review quotes for time server
 - Continue coordination with access control/security vendor
 - Coordinate other vendors and technology meetings

Franklin County, NC Grant Report – July 2022

The tasks listed below will be tracked throughout the project duration and will be updated monthly. New additions are shown in the salmon highlighted rows. At this time, the project remains on schedule.

Work Plan

Task	Projected Timeframe ¹	Actual	Completed
Contract for project oversight	Months 1-2	November 2019	X
Issue RFQ for architectural services	Months 2-3	December 2019	X
Select architect and contract for services	Months 4-5 (February – March 2020)	Selection: February 2020	X
Negotiate fee with architect	Months 5-6 (March – April 2020)	March 2020	X
Receive Commissioners' approval to proceed with contract for architectural services	Month 6 (April 2020)	May 4, 2020	X
Enter into contract for architectural services	Month 6 (April 2020) Revised: Month 8 / June 2020	June 5, 2020	X
Define technology needs in conjunction with building design	Months 13-19 / November 2020 – April 2021	April 2021	X
Facility design and construction document process	Months 9-19 (July 2020 – April 2021)	April 26, 2021	X
Establish lead times for major technology systems, including NG911			

¹ As the grant agreement was signed in late October 2019, month 1 is considered November 2019.

Franklin County, NC Grant Report – July 2022

Task	Projected Timeframe ¹	Actual	Completed
Bid and award construction project	Months 17-19 (March 2021 – May 2021) Revised: Months 18-21 ² (April 2021 – July 2021)	January 2022	X
Proceed with construction, including coordination with migration to the State ESInet NG911 network	Months 20-32 (June 2021 – June 2022) Revised: Months 22-34 (August 2021 – August 2022)		
Procure new technology and furnishings	Months 26-30		
Substantial completion of construction, address any facility punch list issues	Month 30 (April 2022)		
Install, test, and accept new technology: existing equipment and the CAD system will be relocated to the new site prior to and during go-live to ensure that the old and new center remain operational until the transition is complete	Months 30-34 (April – July 2022)		
Go-live / Physically transition the Franklin County primary PSAP to the new facility and the State ESInet NG911 system	Months 34-36 (July – September 2022)		
Monitor systems post cutover	Months 32-36 (May – September 2022)		

² Follow on dates will be adjusted once the timeframes are more clearly defined.



Figure 1: Load Bearing Masonry Underway (7/27/2022)



Franklin County, NC Grant Report – June 2022

Activities – June 2022

- **Construction:**
 - Storm drain system is 50% complete
 - Driveway and South parking lot cut to subgrade is 80% complete
 - Footings are complete
 - Basin B skimmer is complete
 - Foundation masonry complete
 - Concrete slab on grade poured
 - Communication conduit is 35% complete

- **Technology:**
 - Review dispatch furniture proposals
 - Begin coordination meetings with AT&T
 - Begin vendor coordination and quotes with technology vendors
 - Meeting with access control/security vendor
 - Meeting with radio vendor for updates/planning
 - Coordinate other technology meetings
 - Review technology budget

Anticipated Activities – July 2022

- **Construction:**
 - Install water line
 - Building masonry underway
 - Plumbing and electrical rough in underway in CMU walls
 - Steel erection underway

- **Technology:**
 - Finalize review of RFP responses for dispatch furniture
 - Review quotes for time server
 - Continue coordination with access control/security vendor
 - Coordinate other vendors and technology meetings

Franklin County, NC Grant Report – June 2022

The tasks listed below will be tracked throughout the project duration and will be updated monthly. New additions are shown in the salmon highlighted rows. At this time, the project remains on schedule.

Work Plan

Task	Projected Timeframe ¹	Actual	Completed
Contract for project oversight	Months 1-2	November 2019	X
Issue RFQ for architectural services	Months 2-3	December 2019	X
Select architect and contract for services	Months 4-5 (February – March 2020)	Selection: February 2020	X
Negotiate fee with architect	Months 5-6 (March – April 2020)	March 2020	X
Receive Commissioners' approval to proceed with contract for architectural services	Month 6 (April 2020)	May 4, 2020	X
Enter into contract for architectural services	Month 6 (April 2020) Revised: Month 8 / June 2020	June 5, 2020	X
Define technology needs in conjunction with building design	Months 13-19 / November 2020 – April 2021	April 2021	X
Facility design and construction document process	Months 9-19 (July 2020 – April 2021)	April 26, 2021	X
Establish lead times for major technology systems, including NG911			

¹ As the grant agreement was signed in late October 2019, month 1 is considered November 2019.

Franklin County, NC Grant Report – June 2022

Task	Projected Timeframe ¹	Actual	Completed
Bid and award construction project	Months 17-19 (March 2021 – May 2021) Revised: Months 18-21 ² (April 2021 – July 2021)	January 2022	X
Proceed with construction, including coordination with migration to the State ESInet NG911 network	Months 20-32 (June 2021 – June 2022) Revised: Months 22-34 (August 2021 – August 2022)		
Procure new technology and furnishings	Months 26-30		
Substantial completion of construction, address any facility punch list issues	Month 30 (April 2022)		
Install, test, and accept new technology: existing equipment and the CAD system will be relocated to the new site prior to and during go-live to ensure that the old and new center remain operational until the transition is complete	Months 30-34 (April – July 2022)		
Go-live / Physically transition the Franklin County primary PSAP to the new facility and the State ESInet NG911 system	Months 34-36 (July – September 2022)		
Monitor systems post cutover	Months 32-36 (May – September 2022)		

² Follow on dates will be adjusted once the timeframes are more clearly defined.



Figure 1: Foundation Underway (6/29/2022)

Pasquotank-Camden-Elizabeth City

911 Communications Department

200 E. Colonial Ave • Elizabeth City, NC • 27909 • (O) 252.338.7787 • (F) 252.335.1777



Pasquotank County PSAP, NC

PSAP Radio Upgrade Project

Monthly Progress Report – July 2022

Activity	This Period	Next Period
1. Procurement	<ul style="list-style-type: none">• Procurement complete• Equipment obtained	<ul style="list-style-type: none">• No action
2. Installation	<ul style="list-style-type: none">• MCNC completed fiber connection• Equipment installation has started	<ul style="list-style-type: none">• Complete installation of dispatch radio equipment• Start and complete install of the 2 backup 800 channels separate from the VIPER system
3. Testing	<ul style="list-style-type: none">• Fiber connection has been tested by MCNC, VIPER, and Mobile Communications America	<ul style="list-style-type: none">• Test all radio equipment
4. Training	<ul style="list-style-type: none">• No actions required	<ul style="list-style-type: none">• No action expected
5. Closeout	<ul style="list-style-type: none">• No actions required	<ul style="list-style-type: none">• Close out grant

Pasquotank-Camden-Elizabeth City

911 Communications Department

200 E. Colonial Ave • Elizabeth City, NC • 27909 • (O) 252.338.7787 • (F) 252.335.1777



Pasquotank County PSAP, NC

PSAP Radio Upgrade Project

Monthly Progress Report – July 2022

Activity	This Period	Next Period
1. Procurement	<ul style="list-style-type: none">• Procurement complete• Equipment obtained	<ul style="list-style-type: none">• No action
2. Installation	<ul style="list-style-type: none">• MCNC completed fiber connection• Equipment installation has started	<ul style="list-style-type: none">• Complete installation of dispatch radio equipment• Start and complete install of the 2 backup 800 channels separate from the VIPER system
3. Testing	<ul style="list-style-type: none">• Fiber connection has been tested by MCNC, VIPER, and Mobile Communications America	<ul style="list-style-type: none">• Test all radio equipment
4. Training	<ul style="list-style-type: none">• No actions required	<ul style="list-style-type: none">• No action expected
5. Closeout	<ul style="list-style-type: none">• No actions required	<ul style="list-style-type: none">• Close out grant

Polk County, NC Grant Report – July 2022



Activities – July 2022

- Received proposals and negotiated the contract with selected A&E firm
- Communicated regularly with Project Team (ongoing)

Anticipated Activities – August 2022

- Present selected firm to the County Commissioners
- Technology review of existing and new equipment
- Prepare for design kickoff
- Communicate regularly with Project Team (ongoing)

Polk County, NC Grant Report – July 2022

The tasks listed below will be tracked throughout the project duration and will be updated monthly. Any changes will be noted in the monthly report.

Work Plan

Task	Projected Timeframe	Actual	Completed
Contract with consulting firm for project management	Months 1-2 (January – February 2022)	February 2022	X
Publish RFQ for an Architect and Engineering (A&E) Firm for Design Services	Months 2-3 (February – March 2022)	March 2022	X
Contract with A&E firm and begin initial facility programming	Months 3-5 (March – May 2022)	July 2022	
Undergo design and construction document processes	Months 5-14 (May 2022 – February 2023)		
Bid construction project	Month 14 (February 2023)		
Contract with construction firm	Month 16 (April 2023)		
Construct new 911 facility	Months 17-30 (May 2023 – June 2024)		
Develop technology schedule	Months 18-20 (June – August 2023)		

Polk County, NC
Grant Report – July 2022

Task	Projected Timeframe	Actual	Completed
Procure equipment and infrastructure for the new facility	Months 22-28 (October 2023 – April 2024)		
Install infrastructure and technology in alignment with construction requirements	Months 25-36 (January 2024 – December 2024)		
Develop migration/transition plan	Month 26 (February 2024)		
Address any construction punch list items	Months 30-32 (June – August 2024)		
Test and validate all new equipment/ infrastructure	Month 31 (July 2024)		
Conduct 30-day burn-in	Month 32 (August 2024)		
Transition 911 Operations to new facility	Months 32-33 (August – September 2024)		
Monitor systems post-cutover	Months 32-34 (August – October 2024)		
Close out grant	Month 36 (December 2024)		

Polk County, NC Grant Report – June 2022



Activities – June 2022

- Short list interview with Architect/Engineering (A&E) firms
- Received and began review of the proposal from selected A&E firm
- Communicate regularly with Project Team (ongoing)

Anticipated Activities – July 2022

- Finalize review of the proposal from selected A&E firm
- Present selected firm to the County Commissioners
- Begin contracts with selected A&E firm
- Communicate regularly with Project Team (ongoing)

Polk County, NC Grant Report – June 2022

The tasks listed below will be tracked throughout the project duration and will be updated monthly. Any changes will be noted in the monthly report.

Work Plan

Task	Projected Timeframe	Actual	Completed
Contract with consulting firm for project management	Months 1-2 (January – February 2022)	February 2022	X
Publish RFQ for an Architect and Engineering (A&E) Firm for Design Services	Months 2-3 (February – March 2022)	March 2022	X
Contract with A&E firm and begin initial facility programming	Months 3-5 (March – May 2022)	July 2022	
Undergo design and construction document processes	Months 5-14 (May 2022 – February 2023)		
Bid construction project	Month 14 (February 2023)		
Contract with construction firm	Month 16 (April 2023)		
Construct new 911 facility	Months 17-30 (May 2023 – June 2024)		
Develop technology schedule	Months 18-20 (June – August 2023)		

Polk County, NC Grant Report – June 2022

Task	Projected Timeframe	Actual	Completed
Procure equipment and infrastructure for the new facility	Months 22-28 (October 2023 – April 2024)		
Install infrastructure and technology in alignment with construction requirements	Months 25-36 (January 2024 – December 2024)		
Develop migration/transition plan	Month 26 (February 2024)		
Address any construction punch list items	Months 30-32 (June – August 2024)		
Test and validate all new equipment/ infrastructure	Month 31 (July 2024)		
Conduct 30-day burn-in	Month 32 (August 2024)		
Transition 911 Operations to new facility	Months 32-33 (August – September 2024)		
Monitor systems post-cutover	Months 32-34 (August – October 2024)		
Close out grant	Month 36 (December 2024)		



Sampson County, NC Grant Report – July 2022

Activities – July 2022

- **Construction:**
 - Continued punch list items
 - Continued owner trainings
 - Applied for TCO
 - Demobilized remaining materials
- **Technology**
 - Continued radio tower project
 - Continued installation of access control / security
 - Finalized internet circuit installation
 - Continued structured cabling installation
 - Charter and Lumen fiber pulls
 - Continued design / bid for radio equipment / microwave
 - Continued AT&T coordination meetings
 - Continued technology coordination and quote review with technology vendors
 - Reviewed budget and remaining technology procurements
 - Began migration scheduling and vendor installation outreach

Anticipated Activities – August 2022

- **Construction:**
 - Continue punch list items
 - Demobilize remaining materials
- **Technology**
 - Continue radio tower project
 - Continue coordination with AT&T
 - Complete structured cabling
 - Continue access control / security installation
 - Continue coordination with radio vendor on microwave and radio consoles
 - Continue migration scheduling and vendor installation outreach
 - Finalize procurements
 - Begin creation of testing plans

Sampson County, NC Grant Report – July 2022

The tasks listed below will be tracked throughout the project duration and will be updated monthly. At this time, the project remains on schedule.

Work Plan

Task	Projected Timeframe	Actual	Completed
Bid construction project	Month 1 ¹	December 2020	X
Contract with construction firm	Month 5 (April 2021)	April 2021	X
Construct new 911 facility	Months 5-19 (April 2021 – June 2022)	April 19, 2021 – Ongoing	
Procure equipment and infrastructure for the new facility	Months 7-19 (June 2021 – June 2022)	November 2021 – Ongoing	
Develop migration / transition plan	Months 15-19 (February – June 2022)	May 2022 – Ongoing	
Test and validate all new equipment infrastructure	Months 19-20 (June – July 2022)		
Migrate any equipment, if feasible, while operating from backup center	Month 21 (August 2022)		
Transition operations to new facility	Month 21 (August 2022)		

¹ Month 1 is December 2020

Sampson County, NC Grant Report – July 2022

Task	Projected Timeframe	Actual	Completed
Test back capabilities for Carteret County	Months 22-23 (September – October 2022)		



Figure 1: Sampson County Operations Room



Sampson County, NC Grant Report – June 2022

Activities – June 2022

- **Construction:**
 - Continue fencing installation
 - Continued exterior punch list
 - Installed exterior signage and seals
 - Completed final painting
 - Installed moisture detection below floors
 - Interior punch list underway
 - Continued plumbing tie-in and trim out
 - Started hot water heaters
- **Technology**
 - Continue radio tower project
 - Continue installation of access control/security
 - Finalize internet circuit installation
 - Continue structured cabling installation
 - Charter and Lumen fiber pulls
 - Continue design/bid for radio equipment/microwave
 - Continue AT&T coordination meetings
 - Continue technology coordination and quote review with technology vendors

Anticipated Activities – July 2022

- **Construction:**
 - Complete punch list items
 - Demobilize remaining materials
 - Apply for TCO
 - Waterline extension for CRAC units
 - Complete casework
 - Continue owner trainings
- **Technology**
 - Continue radio tower project
 - Continue coordination with AT&T
 - Complete structured cabling
 - Continue access control/security installation
 - Continue coordination with radio vendor on microwave and radio consoles
 - Begin migration scheduling and vendor installation outreach

Sampson County, NC Grant Report – June 2022

The tasks listed below will be tracked throughout the project duration and will be updated monthly. At this time, the project remains on schedule.

Work Plan

Task	Projected Timeframe	Actual	Completed
Bid construction project	Month 1 ¹	December 2020	X
Contract with construction firm	Month 5 (April 2021)	April 2021	X
Construct new 911 facility	Months 5-19 (April 2021 – June 2022)	April 19, 2021 – Ongoing	
Procure equipment and infrastructure for the new facility	Months 7-19 (June 2021 – June 2022)	November 2021 – Ongoing	
Develop migration/transition plan	Months 15-19 (February – June 2022)	May 2022 - Ongoing	
Test and validate all new equipment infrastructure	Months 19-20 (June – July 2022)		
Migrate any equipment, if feasible, while operating from backup center	Month 21 (August 2022)		
Transition operations to new facility	Month 21 (August 2022)		

¹ Month 1 is December 2020

Sampson County, NC Grant Report – June 2022

Task	Projected Timeframe	Actual	Completed
Test backup capabilities for Carteret County	Months 22-23 (September – October 2022)		



Union County, NC Grant Report – July 2022

Activities – July 2022

- Review and alignment of technology migration and procurement plan tasks
- Continued procurement process of technology items
- Continued installation of technology items in 911 and data center
- Continued monitoring tower bid document compilation task by county staff, awaiting completion for bid issuance by county
- Completed generator wiring and testing
- Provided technical guidance for ongoing technology integration
- Continued coordination with ATT and SoNC/911 for migration schedule of 911/EsiNET and back up plan approval

Anticipated Activities – August 2022

- Alignment of technology migration plan with project and vendor teams
- Continue procurement of remaining project technology items and continue installation schedule with vendors
- Continue tasking review of tower with county staff and third-party engineer
- Continue alignment oversight of tower bid/construction tasks with county staff
- Continue installation of equipment in data center and 911 operations room
- Continue technical and vendor reviews for alignment with grant funded technology
- Realignment of grant project timeline and timeframes based on grant extension approval
- Continue coordination with ATT and SoNC/911 for migration schedule of 911/EsiNET and back up plan approval

Union County, NC Grant Report – July 2022

The tasks listed below will be tracked throughout the project duration and will be updated monthly. Highlighted information denotes changes in report since last submitted report.

Work Plan

Task	Projected Timeframe ¹	Actual	Completed
Contract for project oversight	Months 1-2 (January – February 2021)	Execution completed	X
Determine procurement schedule based on facility project schedule	Month 2 (February 2021)	Procurement schedule completed	X
Outline and finalize a procurement strategy based on expected installation schedules	Months 7-8 (July – August 2021)	Purchasing plan developed/ completed	X
Install generator (dependent on construction contract)	Month 10 (October 2021)	Equipment installed	X
Procure equipment and schedule installations	Month 11+ (November 2021 onwards depending on procurement lead times)	Continue installation of equipment and technology related items	
Install structured cabling systems and datacenter needs	Month 13 – 14 (January – February 2022; construction dependent – extended thru June 2022)	Structured cabling and data center racks completed	X

¹ As the grant agreement was signed in mid-December 2020, month 1 is considered January 2021.

Union County, NC Grant Report – July 2022

Task	Projected Timeframe ¹	Actual	Completed
Install backroom supporting technical systems	Month 14 – 15 (February 2022 – March 2022; construction / supply chain dependent – extended to June – September 2022)	Installation in progress	
Test and validate – (pre-go-live decision) (911/facility technology)	Months 16 – 17 (April – May 2022 – extended to September 2022)		
30-day burn-in – (prior to go-live) (911/facility technology)	Months 18 – 19 (June – July 2022 – extended to October 2022)		
Train – (just prior to cutover) (911/facility technology)	Month 19 (July 2022 – extended to November 2022)		
Go-live (911/facility technology)	Month 19 (July 2022 – extended to November 2022)		
30-day post-cutover monitoring (911/facility technology)	Month 20 (August 2022 – extended to December 2022)		
Radio Tower/Foundation Construction Bid	Months 20 – 22 (August 2022 – October 2022)		
Radio Tower/Foundation Construction	Months 23 – 29 (November 2022 – May 2023)		
Radio Tower Project Tasking Acceptance	Month 29 May 2023		
Grant Project Closeout	Month 30 (June 2023)		

Union County, NC Grant Report – July 2022

Grant Award Equipment Procurement Status

Union County NC - NC 911 Grant Award 2021-07						
Budget Report - July 28, 2022						
Item	Grant Award Amount	Expended Amount	Reimbursement Amount Requested / Submitted	Approved / Reimbursed Amount	Award Funds Remaining	Status / Comments
Generator	\$160,000.00	\$400,000.00	\$160,000.00	\$0.00	\$160,000.00	Units installed tested & functional / invoice received - reimbursement request submitted
Radio Tower	\$150,000.00	\$0.00	\$0.00	\$0.00	\$150,000.00	Bid documents under review/edit by county engineer and finance/procurement
Microwave Link	\$125,000.00	\$151,856.00	\$125,000.00	\$125,000.00	\$0.00	Equipment received/staged for installation; reimbursement request submitted; payment received
Structured Cabling	\$39,000.00	\$290,435.97	\$39,000.00	\$39,000.00	\$0.00	Installation completed; reimbursement request submitted; payment received
Radio Distribution Surge Protection	\$5,016.00	\$5,845.05	\$5,016.00	\$5,016.00	\$0.00	Installation completed; reimbursement request submitted; payment received
Racks for Equipment	\$5,005.00	\$70,094.55	\$5,005.00	\$5,005.00	\$0.00	Installation completed; reimbursement request submitted; payment received
Totals:	\$484,021.00	\$918,231.57	\$334,021.00	\$174,021.00	\$310,000.00	

Facility Construction Activity Status²

Construction

- Status
 - Facility is now partially occupied by Fire and Emergency Management Divisions.
 - 911 Division will not relocate/move in until additional technology and 911 EsiNET is received, installed and available for use
 - General contractor and sub-contractors are working on remaining punch list items
 - An official ribbon cutting for the facility is planned for August 23rd at 9:00 am.
- Schedule

² Facility construction summary is provided as reference only for showing alignment with grant award equipment integration.

- Facility building at substantial completion; awaiting issuance of full certificate of occupancy (CO).

Owner (Union County) Contracted/Owner Furnished Items

- Structured Cabling
 - Installation/termination/testing completed
- Audio Visual System(s)
 - Installation completed, integration to other systems ongoing
- Facility Security (Access Control/CCTV) Packages
 - Installation in progress
- Communications Tower
 - Bid document edits and review continue by county engineer and staff
 - Completion of tower will exceed facility building completion

Other Activity:

- Ongoing alignment of remaining technology procurement
- Installation of other facility technology underway
- Realignment of 911 technology installation and testing due to delay in EsiNET circuit provisioning



Figure 1: Building facility is substantially completed and partially occupied



Figure 2: Technology installation continues



Union County, NC Grant Report – June 2022

Activities – June 2022

- Review and alignment of technology migration and procurement plan tasks
- Continued procurement process of technology items
- Started installation of technology items in 911 and data center
- Completed installation of 911 console furniture
- Completed termination/testing of structured/low voltage cabling
- Continued monitoring tower bid document compilation task by county staff, awaiting completion for bid issuance by county
- Received grant extension request approval from NC911 Board and revised project tasking alignments
- Completed generator wiring and testing
- Provided technical guidance for ongoing technology integration

Anticipated Activities – July 2022

- Alignment of technology migration plan with project and vendor teams
- Continue procurement of remaining project technology items and continue installation schedule with vendors
- Continue tasking review of tower with county staff and third-party engineer
- Continue alignment oversight of tower bid/construction tasks with county staff
- Continue installation of equipment in data center and 911 operations room
- Continue technical and vendor reviews for alignment with grant funded technology
- Realignment of grant project timeline and timeframes based on grant extension approval

Union County, NC Grant Report – June 2022

The tasks listed below will be tracked throughout the project duration and will be updated monthly. Highlighted information denotes changes in report since last submitted report.

Work Plan

Task	Projected Timeframe ¹	Actual	Completed
Contract for project oversight	Months 1-2 (January – February 2021)	Execution completed	X
Determine procurement schedule based on facility project schedule	Month 2 (February 2021)	Procurement schedule completed	X
Outline and finalize a procurement strategy based on expected installation schedules	Months 7-8 (July – August 2021)	Purchasing plan developed/ completed	X
Install generator (dependent on construction contract)	Month 10 (October 2021)	Equipment installed	X
Procure equipment and schedule installations	Month 11+ (November 2021 onwards depending on procurement lead times)	Continue installation of equipment and technology related items	
Install structured cabling systems and datacenter needs	Month 13 – 14 (January – February 2022; construction dependent – extended thru June 2022)	Structured cabling and data center racks completed	X
Install backroom supporting technical systems	Month 14 – 15 (February 2022 – March 2022; construction dependent – extended to June – September 2022)	Installation in progress	

¹ As the grant agreement was signed in mid-December 2020, month 1 is considered January 2021.

Union County, NC Grant Report – June 2022

Task	Projected Timeframe ¹	Actual	Completed
Test and validate – (pre-go-live decision)	Months 16 – 17 (April – May 2022 – to be extended)		
30-day burn-in – (prior to go-live)	Months 18 – 19 (June – July 2022 – to be extended)		
Train – (just prior to cutover)	Month 19 (July 2022 – to be extended)		
Go-live	Month 19 (July 2022 – to be extended)		
30-day post-cutover monitoring	Month 20 (August 2022 – to be extended)		

Union County, NC Grant Report – June 2022

Grant Award Equipment Procurement Status

Union County NC - NC 911 Grant Award 2021-07						
Budget Report - June 29, 2022						
Item	Grant Award Amount	Expended Amount	Reimbursement Amount Requested / Submitted	Approved / Reimbursed Amount	Award Funds Remaining	Status / Comments
Generator	\$160,000.00	\$400,000.00	\$160,000.00	\$0.00	\$160,000.00	Units installed tested & functional / invoice received - reimbursement request submitted
Radio Tower	\$150,000.00	\$0.00	\$0.00	\$0.00	\$150,000.00	Bid documents under review/edit by county engineer and finance/procurement
Microwave Link	\$125,000.00	\$151,856.00	\$125,000.00	\$125,000.00	\$0.00	Equipment received/staged for installation; reimbursement request submitted; payment received
Structured Cabling	\$39,000.00	\$290,435.97	\$39,000.00	\$39,000.00	\$0.00	Installation completed; reimbursement request submitted; payment received
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Racks for Equipment	\$5,005.00	\$70,094.55	\$5,005.00	\$5,005.00	\$0.00	Installation completed; reimbursement request submitted; payment received
Totals:	\$484,021.00	\$918,231.57	\$334,021.00	\$174,021.00	\$310,000.00	

Facility Construction Activity Status²

Construction

- Status
 - Punch list reviews by sub-contractors in process.
- Schedule
 - Temporary certification of occupancy (TCO) issued; Anticipate substantial completion of building facilities mid-July with issuance of full certificate of occupancy (CO) following.

² Facility construction summary is provided as reference only for showing alignment with grant award equipment integration.

Owner (Union County) Contracted/Owner Furnished Items

- Structured Cabling
 - Installation/termination/testing completed; data center racks and power installed
- Audio Visual System(s)
 - Installation ongoing; video walls in EOC and 911 completed; integration to other systems starting
- Facility Security (Access Control/CCTV) Packages
 - Installation in progress
- Communications Tower
 - Bid document edits and review continue by county engineer and staff
 - Completion of tower will exceed facility building completion

Other Activity:

- Ongoing alignment of remaining technology procurement
- Installation of other facility technology underway
- Realignment of 911 technology installation and testing due to delay in EsiNET circuit provisioning



Figure 1: Data center equipment racks installed, and structured cabling terminated

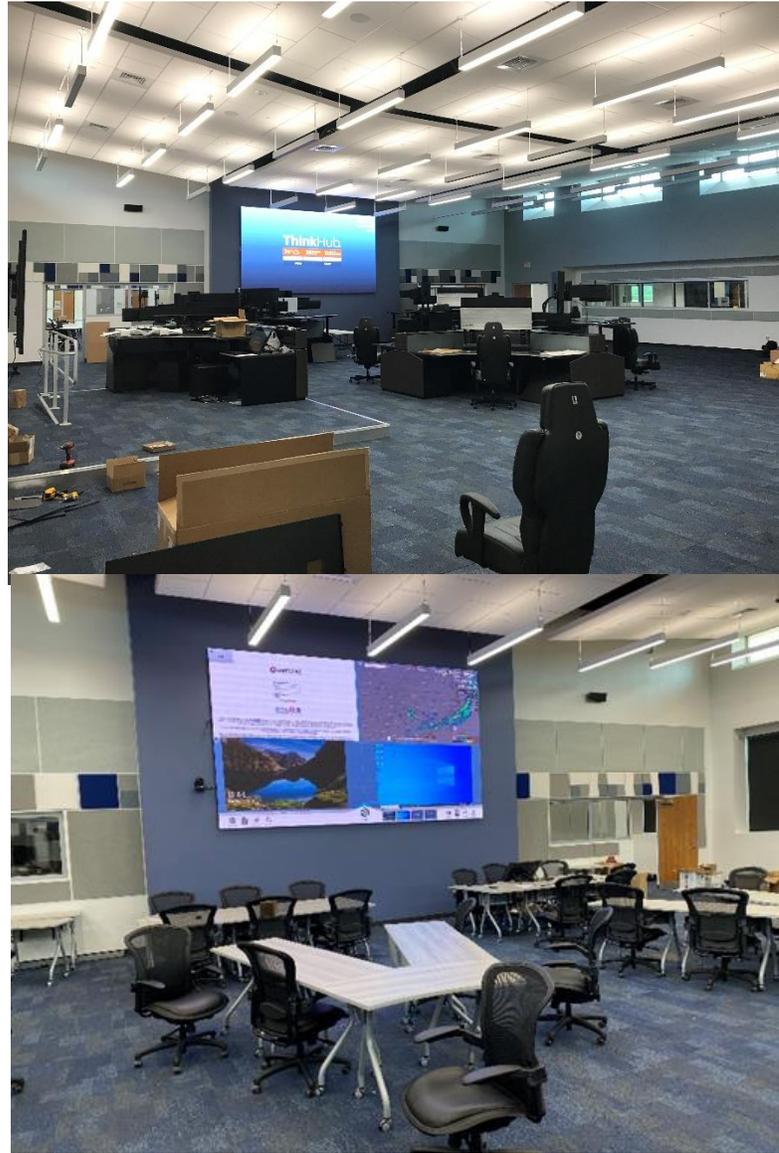


Figure 2: Console furniture installed, and technology installation started

June 24, 2022

Pokey Harris
Executive Director
NC 911 Board
Department of Information Technology
PO Box 17209
Raleigh, NC 27619-7209

Dear Ms. Harris:

The NC Center for Geographic Information and Analysis (CGIA) is pleased to submit the final report for the Eastern Piedmont 2021 (EP21) orthoimagery project. This phase was the second step in the third four-year cycle to refresh orthoimagery for counties in the eastern piedmont from Edgecombe County in the east to Moore County in the west, and to the state borders with Virginia and South Carolina.

The EP21 project area included 26 counties and 32 primary PSAPs. The project team continued to be sustained with contributions from NCDOT Photogrammetry, NCDPS-Geodetic Survey, and the Secretary of State-Land Records Management Program. CGIA had an excellent partnership with the military community in North Carolina including Fort Bragg, Camp Mackall, and Seymour Johnson Air Force Base. Each provided the necessary access to enable flights in their respective areas. This improved the efficiency of our processes and those of our contractors. For the first time in the program, Fort Bragg and Camp Mackall did not ask CGIA to redact data within their boundaries and as a result helped the project team streamline final delivery of the imagery to its recipients at the PSAP level. This ultimately was a cost savings to the 911 Board.

Four private contractors were selected through the qualifications-based selection (QBS) process to acquire, process, and deliver orthoimagery for 15,141 square miles from Edgecombe County in the east to Moore County in the west. Approximately 69% of the orthoimagery tiles received quality review by a combination of staff from each PSAP, county/city GIS team, NCDOT, and CGIA to satisfy the quality assurance goals of the project. NCDPS-Geodetic Survey reviewed a representative sample of the orthoimagery to ensure horizontal accuracy. Only 287 issues were identified for resolution in the entire project area compared to 743 issues identified in 2017 for the same area. This is a testament to the degree of oversight that the project team provides and the high-quality work of the four contractors.

The project delivered 16,885 orthoimagery tiles at 5,000 feet by 5,000 feet each in early November. This was five weeks earlier than the 2020 delivery. CGIA worked with the 911 Board's regional coordinators who delivered the portable hard drives to the PSAPs on behalf of the project team. Then, the imagery was posted to *NC OneMap* for public access.

The project team completed the technical work on the project on schedule in keeping with the proposal to the 911 Board in the spring of 2020. The EP21 project finished with a cost savings of \$383,010 (or 10.3%) under the approved budget.

On behalf of the project team, I would like to thank you and the NC 911 Board for your ongoing support and confidence in the program as we wrap up the second phase of your latest four-year commitment for sustained current, accurate, and complete orthoimagery for the 911 community in North Carolina. It is a benefit to many state and local government programs.

Sincerely,

A handwritten signature in black ink that reads "Tim Johnson". The signature is written in a cursive style with a large, stylized initial "T".

Tim Johnson, GISP
NC Geographic Information Officer
Center for Geographic Information and Analysis

**Statewide Orthoimagery Program
Eastern Piedmont Orthoimagery 2021
FINAL REPORT**

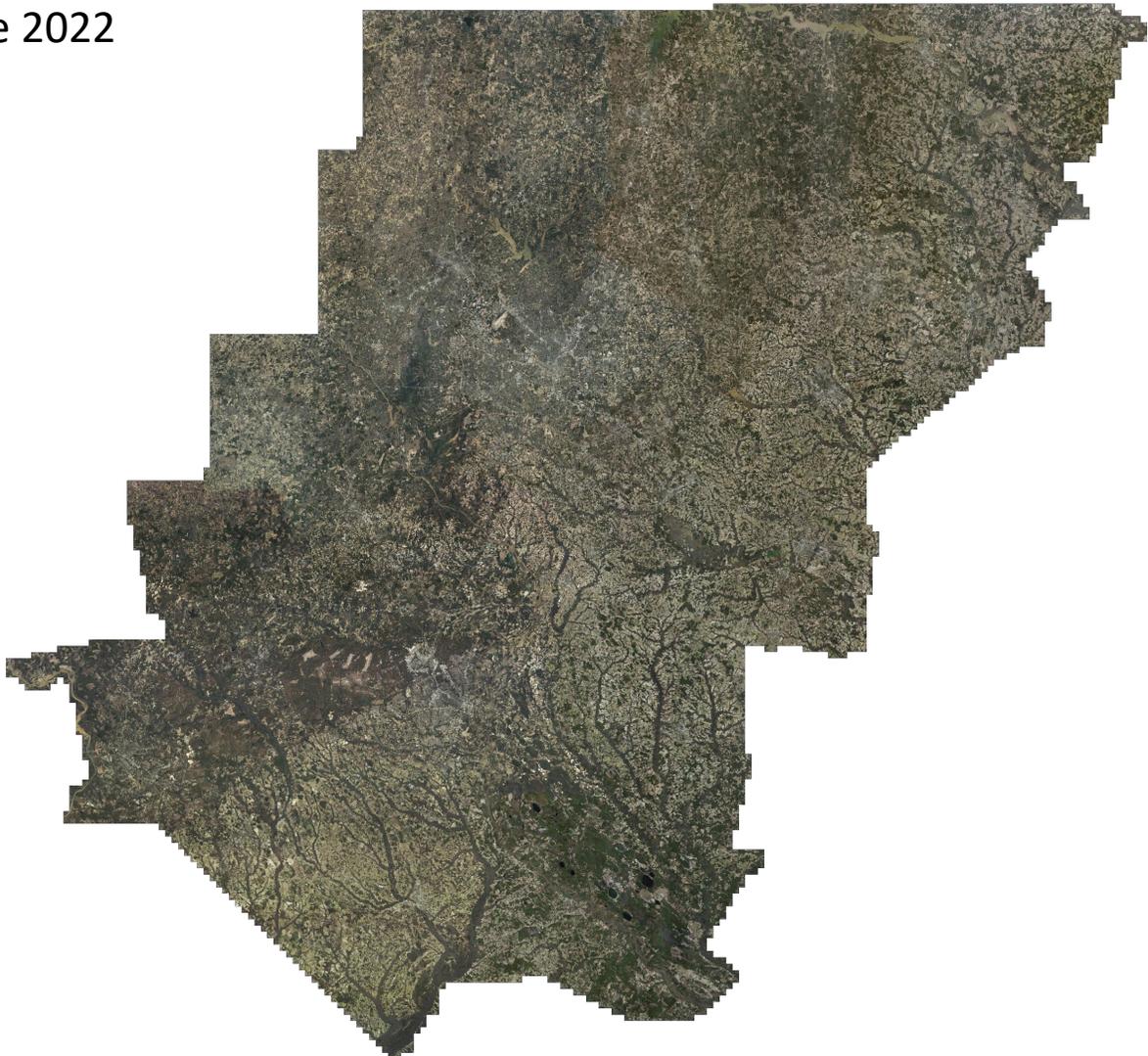
Prepared by:

NC Center for Geographic Information and Analysis

Prepared for:

The North Carolina 911 Board

June 2022



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1. Executive Summary

The NC Center for Geographic Information and Analysis (CGIA) serves as the project manager for the NC 911 Board Statewide Orthoimagery Program. This program is defined by four distinct geographic phases across the State with one phase being completed each year. Phase 2 of 4 of the 4th Cycle through the state, the Eastern Piedmont 2021 Orthoimagery Project, is the subject of this report. The NC 911 Board requires a consistent, accurate, high quality seamless digital imagery product for distribution to Public Safety Answering Points (PSAPs) across the project area. The purpose of the project was to acquire and deliver high resolution imagery to the Primary PSAPs emergency operation centers in 26 counties identified in Table 1.

Bladen Central	Granville County Emergency Services	Rocky Mount Central Communications	Scotland County Emergency Communications
Chatham County Emergency Operations	Halifax County Central Communications	Northampton County Communications	Henderson-Vance 911 Center
Cumberland County 9-1-1	Harnett County Communications Center	Orange County Emergency Communications	Cary Police Department
Fayetteville Communications	Hoke County Emergency Communications	Person County Emergency Communications	Holly Springs Police PSAP
Durham Emergency Communications	Johnston County 911 Communications	Richmond County Emergency Center	Raleigh-Wake County Emergency Comm Center
Edgecombe County 911	Sanford Police Dept Communications Center	Lumberton Communications Center	Warren County E-911 Communications
Tarboro Police Communications	Moore County Emergency Services	Robeson E-911 Communications Center	Wayne County Central 911
Franklin County Communications Center	Nash County Central Communications	Sampson County 911 Communications	Wilson County Emergency Communications

Table 1: Locations of Primary PSAP Clients

Imagery is a mission critical asset that supports accurate, timely and effective placement of 911 calls in precise locations. The technical framework for this project delivers a consistent mapping resource with a high-level of positional accuracy for 911 operations at every PSAP in the project region. This was accomplished by strict adherence to the *North Carolina Technical Specifications for Digital Orthophoto Base Mapping* (the State Standard) adopted October 1, 2009 (and updated in December 2014). Throughout the project, private sub-contractors were required to deliver core compliance deliverables that ensured that the State Standard was followed. This coupled with engaging PSAP and County end-users in a thorough quality review process resulted in a product free of error and that represents the truest depiction of the ground conditions in the project area.

The NC 911 Board’s original vision for this program was to provide all North Carolinians equivalent, up-to-date base imagery that supports detailed mapping of streets and building locations, as well as accurate mapping of property

boundaries. Over the past 10 years, the Statewide Orthoimagery Program has created a consistent foundation for all counties to use in the creation of these additional mapping products. Many of these products are now the building blocks for the Next-Generation 911 (NG911) effort. The Eastern Piedmont Orthoimagery Project continued to build on this with the inclusion of color infrared (CIR) imagery alongside the typical 3-band, true color (RGB) product developed in past projects. This is a product that is normally collected during acquisition but was never pursued as a deliverable until the 2020 Coastal Orthoimagery project since the cost having become lower to process and store it. The CIR product will now be available for over half the geographic area of the state as an additional tool for improving and validating the GIS datasets used in NG911 for street centerlines and addressing.

Along with the improvements to the final imagery products, CGIA also implemented new procedures for private sub-contractors to deliver the final products through direct digital uploads to the CGIA Amazon Web Services (AWS) cloud server. This improved workflow for deliveries expedited receipt of the final products and allowed CGIA staff to efficiently validate and process the imagery files, create derived, compressed imagery products, and deliver to the 911 Board. The result of this modernized workflow facilitated delivery to the 911 Board on November 2, 2021, which is five weeks earlier than the 2020 Coastal Orthoimagery Project deliveries. Coordination and cooperation with the military partners, including Seymour Johnson Air Force Base, Fort Bragg, and Camp Mackall, in the Eastern Piedmont region is always critical to the success and timely deliveries of the projects in this region. The 2021 Eastern Piedmont project was an improvement in this aspect in that Fort Bragg and Camp Mackall allowed the imagery to be made publicly available without redactions over the installations. In past projects, these military installations were required to be redacted and the imagery was only made available to the PSAPs surrounding the installations after signing a non-disclosure agreement. These steps were all avoided during the 2021 Eastern Piedmont project which improved the imagery products available and allowed for a more efficient delivery schedule.

1.1. Cost and Schedule

CGIA relies on sound costing methods, actuals, and comparable contractor cost balancing comparisons and per unit indicators. Private contractors account for almost 80% of the budget and therefore monitoring the NC 911 Board's investment is a top priority of the program. Costs for each phase are submitted annually. Since 2012, project costs have come in over \$4.5M under the combined authorized budgets for all projects during this period. The primary reasons for these savings are cost negotiations with private contractors, more efficient technological solutions for imagery acquisition and processing, and better cost forecasting. CGIA utilizes an inflationary costing model based on project actuals that serves to provide a solid foundation and baseline to serve as the basis for forecasts. Past performance has demonstrated that costs are attributable to three primary factors:

1. the cost of fuel and overhead inflation
2. the efficient use of advanced large-format sensors
3. the complexity of the study area, most notably the difficulty in the mountains.

In the 2021 project, a compressed schedule for delivery, the elimination of DIT Server Hosting costs, negotiations with private contractors, and major reduction in travel and reimbursable expenses due to COVID-19 travel restrictions resulted in a large reduction in overall project costs.

In terms of the overall budget, CGIA demonstrated a project underrun of \$383,010.46 or a 10.3% savings to the NC 911 Board. This is largely attributable to a reduction in actual private contractor costs due to negotiations, a NCDOT surplus of 22.7% (i.e., actual cost under the budgeted amount), a CGIA labor surplus of 64.3% due to having less receipts-based staff working on the project, and an elimination of DIT Server Hosting. Appropriated CGIA staff contributed almost 1,400 hours of labor to the project with no cost to the project, which created the CGIA labor surplus described above.

1.2. Quality, Compliance, and Oversight

CGIA mandates the need for a technical oversight body and puts oversight, accountability, and compliance at the forefront of priorities. The project team backs all decisions and specifications on sound industry practice and quantitative analysis and bases its deliveries and deadlines on firm and reasonable timeframes. To achieve the Project Team’s objective of administering a proactive approach to quality, contracted requirements were implemented for the delivery of core attachment deliverables of signed and sealed compliance documentation as follows either per study area, per aerial triangulation (AT) block, or per county for a total of 46 reports.

1. *Flight and Control Plan (4)*
2. *Ground Control Survey Report (4)*
3. *Imagery Acquisition Compliance Report (4)*
4. *Airborne Global Navigation Satellite System-Inertial Measurement Unit (GNSS-IMU) (Post Processing & Aerotriangulation Report (4)*
5. *Orthoimagery Delivery Report (26)*
6. *Final Report (4)*

Per the direction and vision of the NC 911 Board, local stakeholders, as well as the Project Team, were actively involved early in the visual quality assurance/quality control process ultimately yielding a better product with minimal follow up issues. Specifically, a representative sample of 30% NCDOT, 5% CGIA, and a 25% County quality review of the study area was the desired goal. In 2021, approximately 10,340 square miles were reviewed that represents 68.8% of the total study area. This is accomplished through a system called VOICE. VOICE (Virtual Online Inspection, Checking and Editing) is a GIS web-based tool that hosts imagery stored in the cloud. VOICE contains a suite of tools that facilitate quality control of all imagery developed for the project. The VOICE tool was well received by the PSAP and local government reviewers as an effective means of contributing to the quality control process. VOICE satisfied the following objectives:

1. Satisfies the NC 911 Board’s requirement to provide end users the ability to review the product prior to delivery.
2. Provides secure access by end-user points of contact to review imagery as it is completed by contractors.
3. Store imagery hosted in the cloud thus eliminating the need to deliver external drives that increase costs and scheduling.
4. Provides an effective solution for reviewing imagery seamlessly.

Overall, the quality review process involved a high level of end-user participation and support. Due to project efficiencies gained from improved level 1 review by contractors and from improved elevation data for the region, only 287 errors were found by reviewers and required correction by the vendors. This continues the trend of past projects in improving the quality of orthoimagery tiles delivered to VOICE and reducing the amount of error prior to end-user review. In the same project area four years earlier, 743 errors were found and rectified during the VOICE review. This validates the improvements made by the contractors to rectify issues prior to the full end-user review period. Table 2 demonstrates the final issues statistics derived from VOICE.

County	Units Per County	Percent Reviewed	Number of Errors Resolved	County	Units Per County	Percent Reviewed	Number of Errors Resolved
Bladen	1014	100%	2	Nash	609	60%	53
Chatham	813	81%	4	Northampton	670	60%	11
Cumberland	735	100%	23	Orange	462	63%	2
Durham	337	72%	8	Person	485	71%	4

Edgecombe	590	68%	2	Richmond	602	62%	4
Franklin	550	61%	11	Robeson	1133	47%	4
Granville	611	50%	1	Sampson	1093	44%	14
Halifax	829	60%	3	Scotland	382	100%	1
Harnett	672	63%	25	Vance	302	61%	5
Hoke	441	62%	9	Wake	951	70%	13
Johnston	888	88%	18	Warren	524	60%	18
Lee	289	62%	3	Wayne	652	64%	18
Moore	828	73%	31	Wilson	423	100%	53
				Total	16,885	68.8%	287

Table 2: Final VOICE Statistics

1.3. Project Advancements

The 2021 project was the first to leverage the new CGIA AWS cloud server environment. The project team implemented new methods for private contractors to upload final imagery products directly to the AWS server to expedite receipt and validation of the products. The files were then able to be processed directly in the cloud to create the compressed MrSID file formats that are delivered to the PSAPs. The scalable server environment provided more flexibility and allowed for a much faster turnaround of the final deliverables. Due to these improvements, CGIA was able to deliver the PSAP hard drives to the 911 Board Regional Coordinators on November 2nd, which is five weeks earlier than the 2020 project. Due to the COVID-19 pandemic, the 2021 project relied on the 911 Board Regional Coordinators to distribute the final hard drives to each Primary PSAP.

A major advancement for the 2020 and 2021 projects was the inclusion of the 4th band, or Color Infrared (CIR) band of imagery. Past projects delivered a 3-band imagery product consisting of Red, Green, and Blue (RGB) bands that combine to create the final imagery. For this project, 4-band imagery was produced that included CIR that allows for easier delineation between vegetation and man-made features. The color infrared developed from the 2020 and 2021 projects can be seen in Figure 1 above. The new 4-band imagery products now include over half of the state and will be continued in the 2022 project. This data can be used by first responders and dispatchers to identify man-made features in dense vegetation more easily than with typical RGB imagery. It also has a number of other uses going forward that may assist in the creation and maintenance of GIS mapping layers, such as roads and addresses used in NextGen 9-1-1 mapping. The cost of this additional CIR product on the overall project budget was approximately 1%.

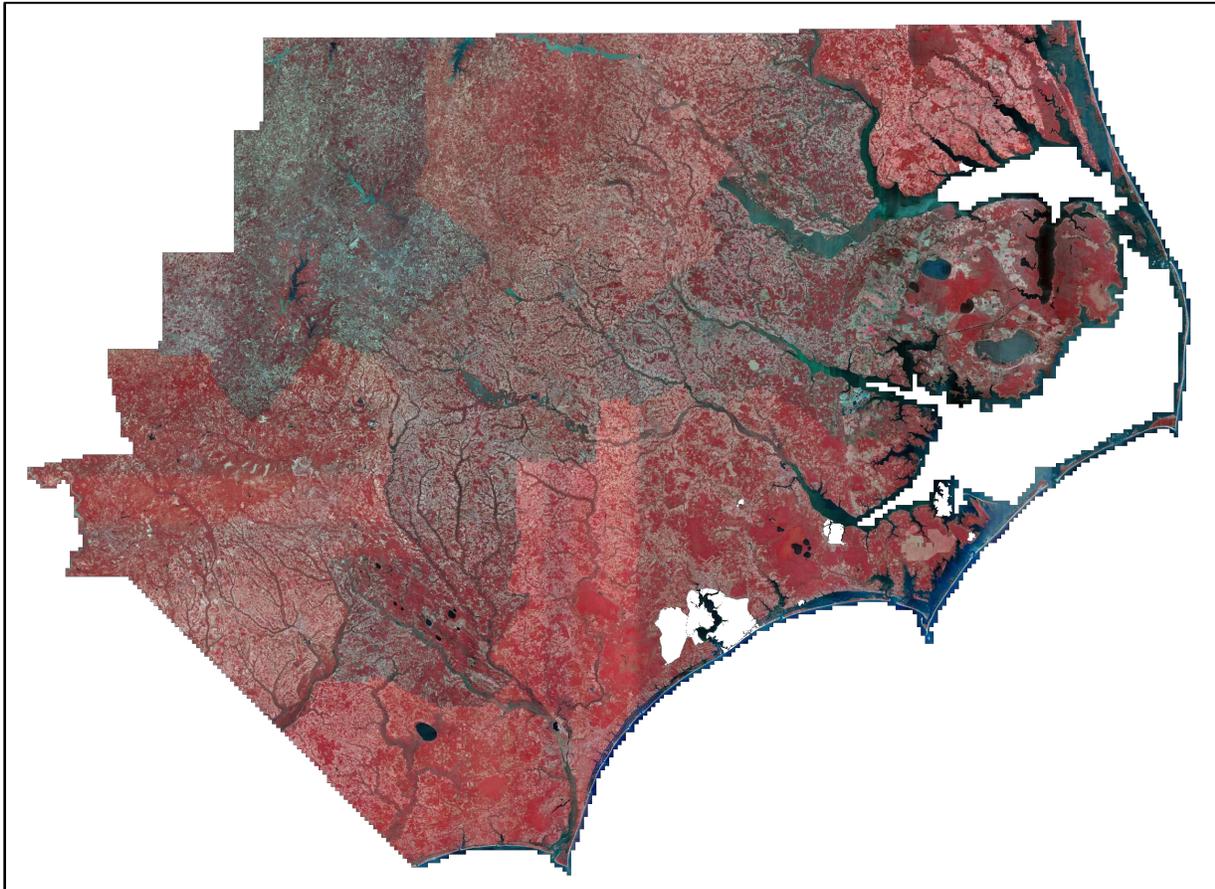


Figure 1: Color Infrared Product results for the Coastal 2020 Orthoimagery Project

Another project improvement involves the partnership between the project team and the Fort Bragg and Camp Mackall military installations. In previous years, the orthoimagery program worked with our partners on the military installations to get approval to fly in the restricted airspace over the installations and acquire imagery. At the end of the projects, the PSAPs received two copies of the data: one unredacted dataset for 911 purposes only, and one redacted dataset for all other uses. The publicly available redacted dataset from 2017 can be seen in the top of Figure 2. This allowed use of the full dataset for 911 purposes but required execution of non-disclosure agreements with the counties and more complicated logistics to ensure that the unredacted data remained secure. For the 2021 orthoimagery project, our partners on the Fort Bragg and Camp Mackall installations permitted the use of the unredacted imagery for all uses (shown in the bottom of Figure 2), which simplified many project workflows including the quality review, validation, and delivery of the products to the PSAPs in the region. This is a testament to the close coordination and partnership between the State and our military partners.



Figure 2: Publicly available orthoimagery from the 2017 Project (TOP) and the 2021 Project (BOTTOM)

2. Project Background

Digital aerial imagery is the most fundamental dataset for use with geographic information systems in local, state, and federal government and in numerous private and non-profit organizations. The 2010 Statewide Orthoimagery project confirmed that imagery is used by Public Safety Answering Points (PSAP) for visual reference and for accurate street mapping, by counties to map property boundaries and infrastructure, and by a range of users to display land use and impervious surfaces.

Orthoimagery is used in search and rescue operations, by the state emergency management office for emergency response planning and development of hazard mitigation plans, and by the floodplain program to develop flood insurance rate maps; it is used by the NC Department of Agriculture and Consumer Services for bio-emergency planning operations; it is used by the NC Department of Transportation (NCDOT) for highway mapping and planning; and by numerous other local, state and federal organizations to get a clear, current, and accurate picture of the landscape. In addition, other groups, such as the engineering and surveying industry, utilities, and real estate development use aerial imagery to meet their location-based business needs. The North Carolina Geographic Information Coordinating Council recognized orthoimagery as a priority dataset, and the GIS Study, requested by the General Assembly and conducted by the NC Office of State Budget and Management, recommended funding of orthoimagery as a key dataset that would yield multiple benefits.

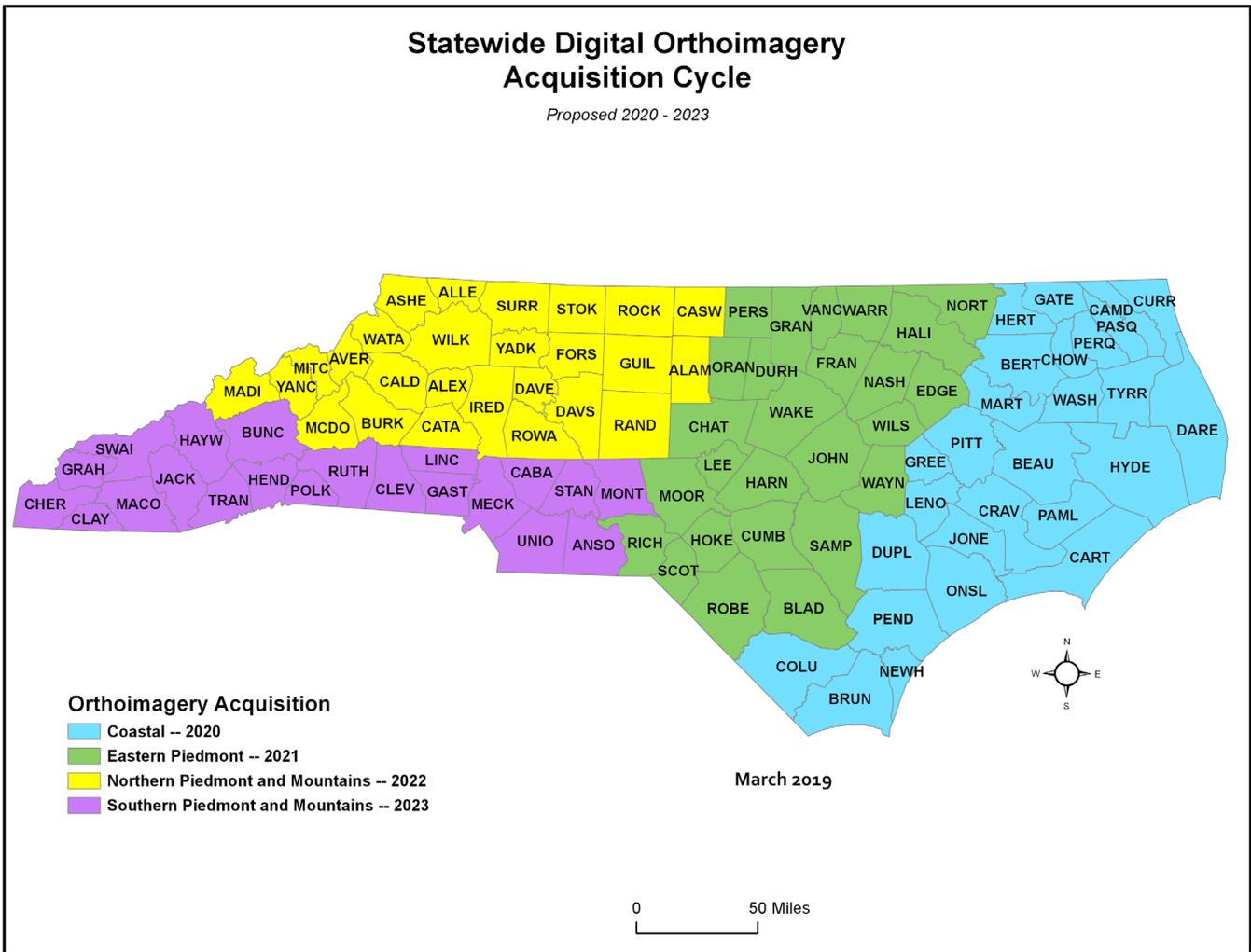


Figure 3: Statewide Orthoimagery by County, North Carolina

Figure 3 illustrates the 2020-2023 cycle of orthoimagery acquisition. Continuing the success of the Statewide Orthoimagery Program the Board approved the third four-year cycle of orthoimagery acquisition based on the Business Plan for Orthoimagery in North Carolina and its recommended annual approach. The Eastern Piedmont 2021 project area encompassed 26 counties in the central region of the state.

2.1. Achievements

The Eastern Piedmont 2021 project achieved all objectives and requirements. In summary, imagery of the highest quality was delivered on time and within budget to Primary PSAPs and county representatives in 26 counties (Table 1). The acquisition season in 2021 started early on January 29th and 30th with flights over the Fort Bragg and Camp Mackall military installations. Acquiring the imagery over these military installations at such an early stage was a major achievement due to the coordination and logistics involved with getting approval to enter the restricted airspace. Having collected the imagery in the restricted airspace allowed the project team to focus efforts on the rest of the project area. The rest of the acquisition season went smoothly until early March when weather conditions prevented acquiring the final portions of the project area and flooding persisted into mid-March, which required reflights of small portions of the Roanoke River, Tar River, Lumber River, and Lake Jordan. With these reflights, the acquisition of imagery was completed successfully on March 29 prior to leaf-on conditions.

After acquisition was complete, local stakeholders were actively involved early in the quality assurance/quality control process yielding a better product with minimal follow up issues. The quality control process continued to utilize the VOICE cloud-based solution for interactive review of imagery thus making the review process more efficient than traditional methods. The VOICE tool was well received by the PSAP and local government reviewers as an effective means of contributing to the quality control process. The orthoimagery was successfully loaded onto the NC OneMap Geospatial Portal, enabling free and quick access by public and private sector users.

2.2. Deliverables

Technical

- 1) Orthoimagery, true color RGB with 0.5-foot resolution in 5,000 by 5,000-foot tiles (equivalent to a mapping scale of 1 inch – 200 feet) in GeoTIFF and MrSID (20:1 compression ratio) formats, as well as a derived single file per county MrSID mosaic (50:1 compression ratio) format.
- 2) Orthoimagery, false color CIR with 0.5-foot resolution in 5,000 by 5,000-foot tiles (equivalent to a mapping scale of 1 inch – 200 feet) in GeoTIFF and MrSID (20:1 compression ratio) formats, as well as a derived single file per county MrSID mosaic (50:1 compression ratio) format.
- 3) Project metadata in txt, HTML, and XML format per county
- 4) Continuously Operating Reference Station (CORS) network report
- 5) NC OneMap Geospatial Portal Image Services and applicable data
- 6) Outreach workshops
- 7) A functional and operable online QC application
- 8) 60-day local review and client satisfaction period
- 9) A minimum of 60% coverage area visual quality control that confirms a product free of degradation and most resembles the truest representation of the highest quality imagery

Reports and Requirements Documentation

- 1) Weekly contractors' status reports
- 2) Quarterly invoicing and accomplishments
- 3) Distribution schedules

- 4) Documentation providing permissions, limitations, and any restrictions regarding collection and use of orthoimagery comprising military properties within the Scope of the Project
- 5) Seven core project compliance documentation deliverables
- 6) Final Report and Contractors' Lessons Learned Reports
- 7) Guidelines for orthorectification specifications and procedures
- 8) NCGS horizontal quality review reports
- 9) 60-day local review and client satisfaction period customer surveys

3. Schedule and Milestones

The project schedule covered 104 weeks from July 1, 2020, through May 30, 2022, defined by four blocks of core phases including six months of Qualifications-Based Selection and project planning, two months of acquisition, four months of post processing, four months of quality review, two months of post-delivery review, NC OneMap implementation, and closeout.

Table 3 represents the components of the project. The project team established planned start and finish dates early in the project for these milestones. Actual finish dates were recorded when milestones were completed.

Task	Item	Planned Start	Planned Finish	Actual Finish/Percent Complete
1	Project Initiation	7/1/2020	1/1/2021	3/10/2021
	Issue RFQ for Orthoimagery QBS	7/30/2020	7/30/2020	7/30/2020
	Closing date for RFQ responses	8/20/2020	8/20/2020	8/20/2020
	Contract NCGS and NCDOT	8/1/2020	8/1/2020	9/15/2020
	Host workshop for selected applicants	9/24/2020	9/24/2020	9/24/2020
	Technical and cost proposals due	10/6/2020	10/6/2020	10/6/2020
	Negotiate with selected applicants	10/26/2020	10/26/2020	10/26/2020
	Issue Purchase Orders	11/22/2020	11/22/2020	12/9/2020
	Conduct Kickoff Meeting	12/15/2020	12/15/2020	12/15/2020
	Contract QC Service Provider	1/1/2021	1/1/2021	3/10/2021
2	Planning and Design	10/15/2020	4/30/2021	5/14/2021
	CORS Upgrades	10/15/2020	3/1/2021	1/26/2021
	Validation Range	10/15/2020	1/14/2021	3/2/2021
	RTN Maintenance	10/15/2020	Ongoing	

	Control Surveys and Attachment C-1: Control Surveys Report	12/15/2020	4/2/2021	5/14/2021
3A	Acquisition	1/20/2021	4/26/2021	6/3/2021
	Acquire Imagery for 26 Counties	1/20/2021	3/15/2021	3/29/2021
	Attachment D: Imagery Acquisition Compliance Report	2/1/2021	4/26/2021	6/3/2021
3B	Acquisition Post-Processing	2/1/2021	5/21/2021	6/4/2021
	Attachment E: GNSS-IMU Post Processing & Aerotriangulation Report	3/1/2021	5/14/2021	6/23/2021
	Ortho Generation Workshop	3/24/2021	3/24/2021	3/31/2021
	Study Area Web Map Service	4/1/2021	5/21/2021	6/4/2021
4	Quality Review Production and Product Delivery	5/21/2021	10/16/2021	9/30/2021
	QC Production Cycle	5/21/2021	10/16/2021	9/30/2021
5	Implementation	11/15/2021	1/29/2022	1/28/2022
	Product Delivery	11/15/2021	11/19/2021	11/2/2022
	Implement the NC OneMap Geospatial Portal solution	12/1/2021	Ongoing	
	60 day End-User Evaluation	11/19/2021	1/28/2022	1/28/2022
6	Project Closeout	12/1/2021	4/31/2022	3/15/2022
	Final Data Packaging and Final Reports	12/1/2021	4/31/2022	3/15/2022
	Project Closeout	4/1/2022	4/31/2022	3/15/2022

Table 3: Project Milestones

4. Project Scope and Management

This collaborative project took advantage of strategic resources from statewide 911 management and operations, the core collaboration project team, state standards and specifications, state technical services, the statewide GIS coordination structure, and ongoing statewide initiatives. The following are the specific project responsibilities shared and distributed among the six core members of the project collaboration team. Figure 4 is the project organization chart.

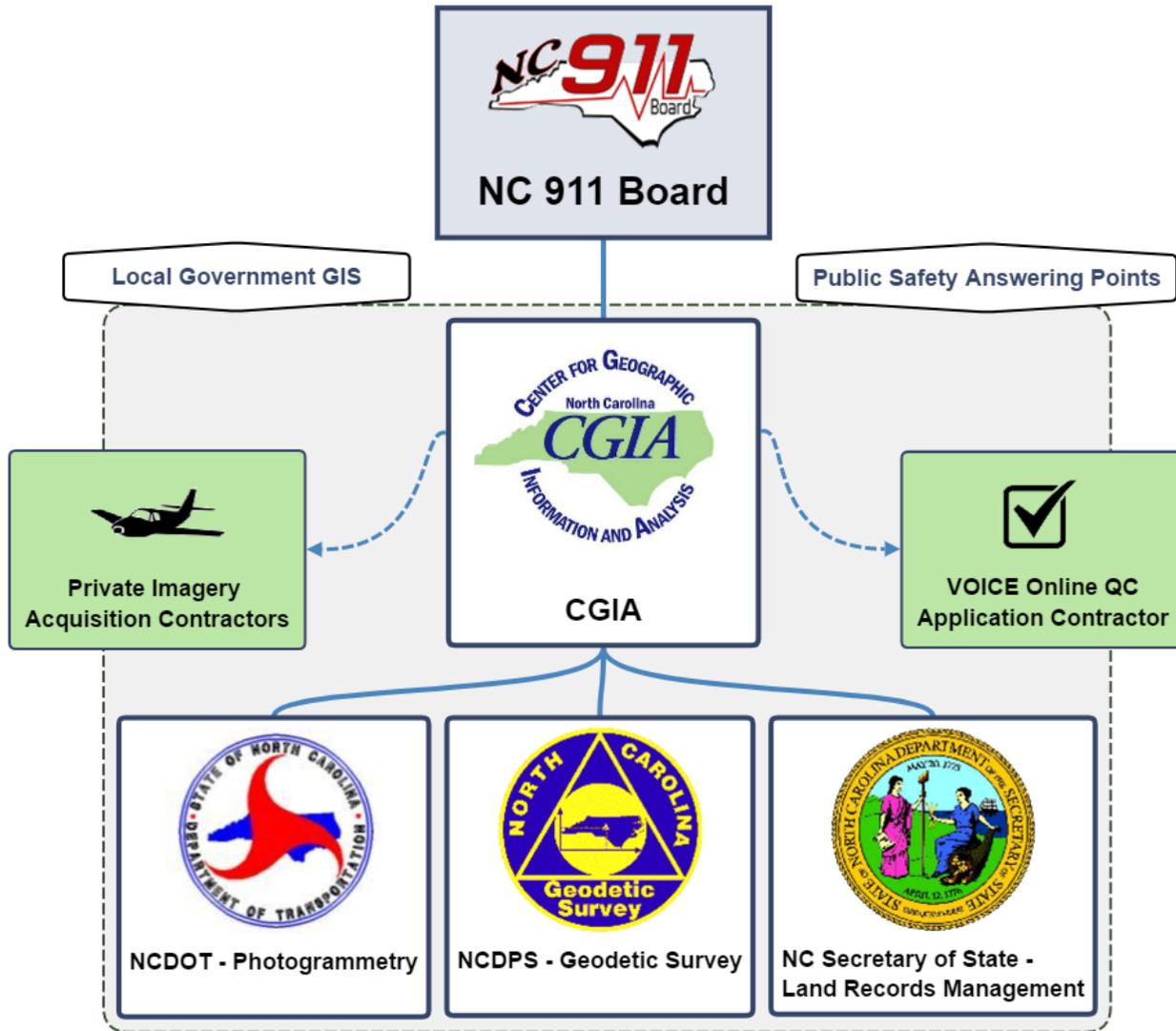


Figure 4: Project Collaboration Team

4.1. NC 911 Board

The NC 911 Board is the client for the orthoimagery product. The NC 911 Board requires a consistent, accurate, high-quality product for distribution to PSAPs across the study area. It provided guidance to CGIA through the planning, implementation, and delivery stages of the project. The NC 911 Board received periodic briefings and quarterly status updates on the project and provided feedback to the project team as needed.

4.2. NC Center for Geographic Information and Analysis (CGIA)

CGIA performed services including Qualifications-Based Selection processes, project administration, invoicing, quality

control, and product delivery. The agency houses the NC OneMap Geospatial Portal and specified the detailed requirements for information technology upgrades in the NC OneMap framework. CGIA performed outreach by communicating with counties and cities, contractors, state agencies, federal partners, and the public to explain the products and benefits of the program, performed quality review of 5% of the project study area, ensure compliance with DOD national security, and served as project manager for a collaboration of state agencies under contract to the Department of Information Technology (DIT). These included the NC Department of Public Safety-NC Geodetic Survey (NCGS), the NC Department of Transportation (NCDOT) Photogrammetry Unit, and five private sector contractors. In addition, CGIA solicited guidance and recommendations from the Department of the Secretary of State and the Working Group for Orthophotography Planning within the Statewide Mapping Advisory Committee.

4.3. NC Department of Transportation (NCDOT) Photogrammetry Unit

NCDOT performed technical and advisory services. NCDOT has expertise and experience in managing orthoimagery acquisition, utilizing software for evaluating photogrammetric deliverables, performing oversight, developing, evaluating, and approving compliance documentation, and managing and performing visual quality control of up to 30% of the study area. NCDOT served as the core responsible party for insuring compliance of photogrammetry specifications.

4.4. NC Department of Public Safety-NC Geodetic Survey (NCGS)

NCGS performed technical advisory services for survey control, establishing field network systems, performing field maintenance, and for managing independent field quality control through a QBS process. NCGS has expertise and experience in managing photogrammetric deliverables, performing oversight, developing, evaluating, and approving compliance documentation, and managing and performing field quality control. NCGS served as the core responsible party for upgrading and maintaining the Continuously Operating Reference Station (CORS) network for GNSS in North Carolina, maintaining the aerial camera validation range located in Surry County, setting survey control standards, and administering compliance for horizontal quality control.

4.5. NC Department of the Secretary of State (NCSOS)

The Department of the Secretary of State (NCSOS) is the author of the State *Standard* for orthoimagery acquisition. This standard was used as a foundational component of the statewide effort to ensure accuracy and consistency in the final product delivered to the PSAP community and other users. NCSOS served as the core responsible party for administering compliance to the orthophoto standards that serve as the fundamental framework of specifications for the acquisition contractors.

4.6. NC Primary Public Safety Answering Points

The Primary Public Safety Answering Points (PSAPs) and the local government representatives were critical to the successful completion of the project. These collaborators are the local experts for their geographic area. PSAP and county representatives performed early quality review and submitted issues for resolution, received final delivery of the orthoimagery product from CGIA, and performed final 60-day review of the orthoimagery products.

4.7. Photogrammetric Services Contractors

Private contractors, managed by CGIA with support from collaborating members of the state project team, performed aerial imagery acquisition and processing of 26 counties. The five primary contractors were: Atlas Geographic Data, Sanborn Map Company, Spatial Data Consultants, and Surdex Corporation.

5.1 Block 1: Project Initiation, QBS, Procurement, Planning (Jul 2020 – Jan 2021)

The purpose of this block is to develop contracts with public and private sector project partners, and to begin other administrative tasks in preparation for orthoimagery acquisition. The magnitude of this project required engagement of four private photogrammetric services contractors with specific expertise in photogrammetry. CGIA adheres to the guidelines set forth in the Mini-Brooks Act (G.S. 143-64.31 et seq) to select firms qualified to provide such services based on demonstrated competence and qualification for the type of professional services required without regard to fee.

The selection criteria implemented for selecting private firms consisted of four scoring categories: past performance on similar projects, specialized expertise in the type of project, adequate equipment and capacity, and technical approaches. Specific requirements for this project area required demonstrated technical expertise for acquiring imagery in restricted military airspace and approaches for minimizing building lean in downtown urban areas. The project team determined the region necessitated four acquisition vendors to successfully collect in the available collection window and selected the top four vendors based on the scoring of the selection criteria.

5.2 Block 2: Acquisition and Post Processing Production (Jan 2021 – Jun 2021)

The purpose of this task is to finalize technical planning details, initiate acquisition and complete before leaf-on conditions, conduct workshops, finalize radiometry requirements, initiate outreach, implement the VOICE quality review application, and develop, engage, review, and approve quality compliance documentation. The project study area is depicted in Figure 5.

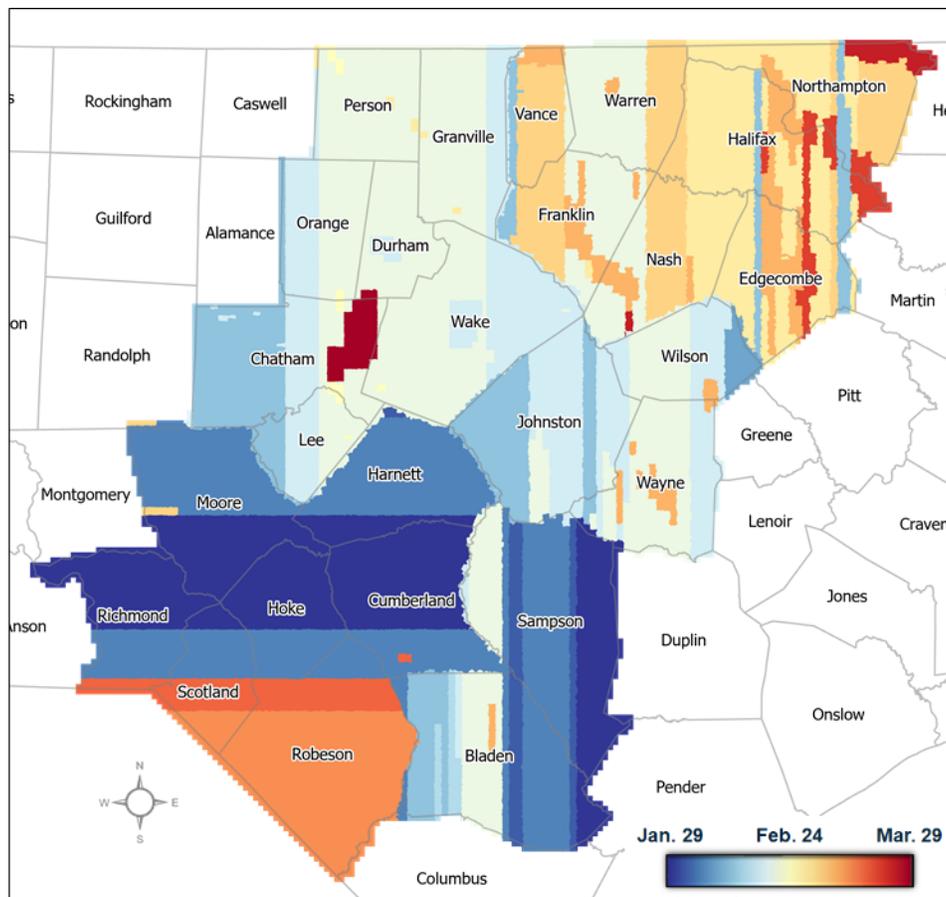


Figure 6: Final Acquisition

The most significant achievement of this phase was successful collection of the military installations, Fort Bragg and Camp Mackall, during the last weekend of January. Entering the restricted airspace above these installations requires a great deal of coordination. Collecting the military installations early in the acquisition season alleviated the pressures of this coordination effort and allowed the project team to focus on acquiring the rest of the project area. Each of the four private contractors brought two aircraft into the project, which allowed for an efficient acquisition season. Localized flooding on the Roanoke, Tar, and Lumber Rivers, as well as Lake Jordan, delayed completion of acquisition until late March. However, the final imagery was still acquired during leaf-off conditions with minimal impacts from standing waters.

5.3 Block 3: Quality Control (Jun 2021 – Oct 2021)

The purpose of this task is to perform a full circle quality review to assure that the imagery meets state specifications and is free of systematic errors or systematic visual quality issues and to verify the quality and completeness of the product (including review, issues submittal, resolution, resolution submittal review, and signoff). Per the direction and vision of the NC 911 Board, local stakeholders and the Project Team were actively involved early in the visual quality assurance/quality control process ultimately yielding a better product with minimal follow up issues. Specifically, a representative sample of 30% NCDOT, 5% CGIA, and a 25% County quality review of the study area was the desired goal. In 2021, approximately 10,340 square miles were reviewed that represents 68.8% of the total study area. This is accomplished through a system called VOICE. VOICE (Virtual Online Inspection, Checking and Editing) is a GIS web-based tool that hosts imagery stored in the cloud. A total of 287 issues were found during VOICE review and contractors fixed these issues prior to final delivery of the products. This is a much smaller amount compared with past projects. In this same project area in 2017, 743 issues were found and fixed during VOICE review. This lower volume of issues is the result of hard work done by the private contractors to identify and fix most issues prior to the end-user review in VOICE. This is especially true in the Raleigh-Durham metropolitan area due to the amount of development that occurred since the last project in the region.

In addition, this Block consists of developing the alternative Multi-Resolution Seamless Image Database (MrSID) products (including a single file product that extends seven miles outside the county boundary), assembling neighboring county imagery, reviewing other applicable relevant data such as metadata, and packaging for delivery. Orthoimagery data from adjacent state partners in South Carolina and Virginia are also brought in and processed with the final products to ensure minimum coverage requirements are met.

5.4 Block 4: Implementation and Closeout (Nov 2021 – Mar 2022)

1. Deliver the final imagery to the NC 911 Board Regional Coordinators instead of regional delivery meetings due to COVID-19 restrictions. Each Primary PSAP coordinated with the regional coordinators to receive a portable disk drive that covers the minimum seven miles outside of their applicable counties.
2. Make public release of data on NC OneMap and implement DIT hosting services.
3. Evaluate the deliverable through a 60-day evaluation period.
4. Review final report submittals and develop final project report.
5. Perform final project management activities relevant to closeout and financial assessment.

6. Acknowledgements

This project achieved success because of the effective collaboration and teamwork among public agencies and private sector service providers. The project team would like to recognize the following participants for helping keep the project on task, on time, and within budget to the benefit of all.

NC 911 Board: James Weaver (Current Chair), Eric Boyette (Former Chair), Pokey Harris (Executive Director), Tina Gardner (Regional PSAP Coordinator), Angie Turbeville (Regional PSAP Coordinator), Marsha Tapler (Financial Analyst), David Newberry (Regional PSAP Coordinator), Stephanie Conner (Regional PSAP Coordinator), Kristen Falco (Financial Review Specialist), and Sarah Templeton (Financial Review Specialist).

Geographic Information Coordinating Council

NC Department of Transportation-Photogrammetry Unit: Richard Greene, Don Early, Nick Short, Donnie Griffin, Marc Swartz, Mohammed Khan, Gena Neal, Jackie Speir, Pam Harrington, Angie Guin, Paul Chromy, Nelson Holden, Reginald Booker, Suzanne Kennedy, Ted Williams, Tom Kelly, Mike Watson, Leslie Sox, and Eric Wade.

NC Department of Public Safety-NC Geodetic Survey: Gary Thompson, Watson Ross, and Scott Lokken

NC Department of the Secretary of State-Land Records Management Section: John Bridgers and Rich Elkins

NC Attorney General's Office: Richard Bradford

NC Department of Administration: Bahaa Jizi

NC Department of Information Technology:

- Administration & Finance Division: Mark Newsome, Joey Bullock, Dawn Urey
- State DIT Purchasing Procurement and Contracts: Patti Bowers, Judy King, Joetta Brunson
- Administrative Support: Susan Chan, Brittany Jacobs

Statewide Mapping Advisory Committee

Working Group for Elevation and Orthophotography Planning: Gary Thompson, Nick Short, Christian Vose, Sean McGuire, Rich Elkins, Dr. Joanne Halls, Dr. Leila Hashemi Beni, Hope Morgan, John Bridgers, Silvia Terziotti, Erik Hund, Doug Newcomb, Stephen Dew, Natalie Walton-Corbett, Josh Norwood, and Colleen Kiley.

Private Service Providers: Imagery Acquisition and Production and Quality Control

- Atlas Geographic Data
- Sanborn Map Company
- Spatial Data Consultants
- Surdex Corporation

Private Service Providers: Horizontal Accuracy QC

- CESI Civil-Geotechnical-Surveying

Finally, I would like to thank CGIA staff for their persistence and attention to detail throughout the project: Elizabeth Daniel, John Derry, Ben Shelton, Brett Spivey, David Giordano, Darrin Smith, Matthew McLamb and Colleen Kiley.

Tim Johnson, GISP

NC Geographic Information Officer

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Appendix A: Definitions

Public Safety Answering Point (PSAP)

A public safety answering point is a call center responsible for answering calls to an emergency telephone number for police, firefighting, and ambulance services.

Aerial Photography

Aerial photography is any photography taken from the air. Typically, aerial photographs are taken with specialized, high-quality, large format cameras that point down vertically from the aircraft to the ground below.

Orthophotography is derived from overlapping vertical aerial photography. Digital cameras are becoming more prevalent than film cameras for projects in North Carolina.

Aerial Triangulation

The primary purpose of aerial triangulation (AT) is to compensate for errors in ground positioning of the imagery. GNSS positional data is processed against the stationary GNSS base stations established throughout the project area. Also, data from the sensor (camera) is processed to provide the continuous orientation and position of the sensor throughout the flight of the aircraft. The orientation and position are used with the raw imagery data to produce a georeferenced image. The triangulation process involves multiple viewing angles and point matching to produce a network of image points. Ground control points are also integrated in the processing to produce imagery that fits the terrain within accuracy specifications.

Color Infrared (CIR)

A color infrared (CIR) image is a form of multispectral aerial imagery that includes part of the visible light spectrum as well as the near infrared part of the spectrum, which is invisible to the human eye.

Continuously Operating Reference Station (CORS)

The National Geodetic Survey (NGS), an office of the National Oceanic and Atmospheric Administration (NOAA) National Ocean Service, coordinates a network of continuously operating reference stations (CORS). Each CORS site provides Global Navigation Satellite System (GNSS - GNSS and GLONASS) carrier phase and code range measurements in support of three-dimensional positioning activities throughout the United States and its territories. Surveyors, GIS/LIS professionals, engineers, scientists, and others can apply CORS data to position points at which GNSS data have been collected. The CORS system enables positioning accuracies that approach a few centimeters relative to the National Spatial Reference System, both horizontally and vertically.

Datum

A set of constants specifying the coordinate system used for geodetic control, i.e., for calculating the coordinates of points on the Earth. This project uses the standard datum for orthoimagery in North Carolina: North America Datum (NAD) 1983 with the readjustment from 2011.

Digital Orthoimagery (DOI)

Digital Orthoimagery is a remotely-sensed digital picture, stored in a raster data format. It is a geo-referenced image prepared from a vertical photograph or other remotely-sensed data in which displacement of objects due to sensor orientation and terrain relief have been removed.

Digital Elevation Model (DEM)

Digital Elevation Model is a sample of ground elevations points used to model a land surface. It is a required element in the processing of digital orthoimagery based on the accurate identification of control points in the images whose ground positions are accurately known. North Carolina has statewide elevation datasets derived from Light Detection and Ranging (LiDAR) technology.

Geographic Registration

Registration is the spatial referencing of an orthoimage to an area on the earth's surface. An image must be geographically registered in order to use it in a GIS as an overlay.

Global Navigation Satellite System (GNSS)

A system of satellites, computers, and receivers that can determine the latitude and longitude of a receiver on Earth by calculating the time difference for signals from different satellites to reach the receiver.

Ground Control Point

Points of accurately known geographic location used to register imagery and other coverage data to ground position. In preparation for flights, white panels are placed in visible locations (ground control points) and their positions are surveyed and recorded. For quality control, aerial imagery contractors compare the geospatial location of the ground control points in the imagery to the recorded locations. Third party horizontal quality control may use the ground control points and other recorded reference points to check the accuracy of visible locations in the imagery.

Ground Sample Distance (GSD)

Ground sample distance is the area on the ground represented by each pixel in a digital orthoimage. The smaller the pixel, the more detail is visible in the image. North Carolina requires pixel of one-foot or smaller, and 6-inch and even 3-inch pixels are prevalent over urban areas. This project uses 6-inch GSD.

High Accuracy Reference Network (HARN)

The HARN is a statewide network of survey monuments measured to an extremely high level of accuracy with respect to, and as part of, a similar nationwide network of high-accuracy points. The positions of these monuments are established using GNSS and other sophisticated space-based measuring technologies. HARN is not expressed as part of the datum for this project (NAD 1983(2011)).

Metadata

Metadata is information in standard format about the content, quality, and condition of a dataset. For imagery, metadata includes when and how images were captured from aircraft, processing, extent, contact information, and other items that inform users of the imagery products.

Multi-spectral

Digital orthoimagery collected in multiple bands, with each band corresponding to a portion of the spectrum. Various band combinations may be combined to assist in the identification of specific ground features, via automated image processing techniques.

Nadir

Nadir is the point on the ground directly below the aircraft following the force of gravity toward the earth's surface.

Natural Color

Natural color is derived from three (red, green, blue) of the four digital bands captured by digital cameras. Commonly used for inventory analysis, cartographic verification, and data verification. Especially useful for showing man-made features, which typically occur in a wider range of colors than natural features.

Orthoimagery

An orthoimage is remotely sensed image data in which displacement of features in the image caused by terrain relief and sensor orientation have been mathematically removed. Orthoimagery combines the image characteristics of a photograph with the geometric qualities of a map. An orthoimage or orthophoto is an aerial photograph (or digital image) geometrically corrected ("orthorectified") such that the scale is uniform: the photo has the same lack of distortion as a map. Unlike an uncorrected aerial photograph, an orthoimage can be used to measure true distances, because it is an accurate representation of the earth's surface, having been adjusted for topographic relief, lens

distortion, and camera tilt. Orthoimagery is commonly used in the creation of a Geographic Information System (GIS). Software can display the orthoimage and enable an operator to digitize or place line work, text annotations or geographic symbols (such as hospitals, schools, and fire stations).

Panchromatic

A film type which renders imagery as gray scale. It generally provides the best resolution and least amount of storage space.

Pixel

A pixel is a two-dimensional picture element that is the smallest non-divisible element of a digital image. For this project, a pixel represents 6 inches on the ground, and each 5,000 by 5,000-foot tile has 10 million pixels.

Positional Accuracy

This refers to the variation that can exist between coordinates for a feature on the image to the actual location of that feature on the earth's surface.

Remote Sensing

The process of collecting data about objects or landscape features without coming into direct physical contact with them.

Scale

Scale is the ratio of distances on a map to those same distances on the earth's surface. Ground resolution relates to mapping scale. For example, a map scale of 1 inch on the map = 200 feet on the ground is equivalent to an image ground resolution of 6 inches (pixel size). A scale of 1-to-400 is equivalent to 1-foot resolution. A scale of 1-to-100 is equivalent to 3-inch ground resolution.

State Plane

A coordinate system (grid) of plane rectangular (x, y) coordinates for pre-determined zones in each of the 50 states. Local governments in North Carolina use state plane with map units in feet.

Tile

Images are subdivided into smaller units to reduce the physical file size and the amount of computer processing required. Tiles usually cover a regular rectangular grid. The tile size for 6-inch resolution images in North Carolina is 5,000 feet by 5,000 feet.

Sources: NC Center for Geographic Information and Analysis; adapted from New York State Geographic Information System Clearinghouse; the Federal Geographic Data Committee glossary; USGS metadata records, and various project documents.

July 25, 2022

L.V. Pokey Harris
Executive Director
North Carolina 911 Board

This status report is for Cycle 3, Phase 3 of the Statewide Orthoimagery Program, funded by the NC 911 Board. The project will be referred to as the Northern Piedmont and Mountains 2022 Orthoimagery Project. This report summarizes the project status for the period from April 1, 2022 – June 30, 2022.

Accomplishments

The accomplishments by the project team during the period include the following items organized by team member:

CGIA

- Held Ortho Generation Workshop on April 21 with all vendors to discuss steps following acquisition and to assess radiometry.
- Received regional tile samples from each vendor to analyze radiometry at borders between each vendor.
- Received and evaluated compliance documentation from contractors, including control surveys, Imagery Acquisition reports, and Aerotriangulation Post-Processing Reports.
- Coordinated with state partners in Tennessee and Virginia to receive latest products to be incorporated in final deliveries to PSAPs in the fall.
- Received and assessed 3.8 Preliminary Imagery Web Services from vendors to finalize radiometry for the project.
- Began testing of the online VOICE application to assess readiness for quality control process.
- Began outreach with PSAPs and County end-users about participating in the VOICE quality review process that began in early July.
- Initiated and tested validation workflows for receiving final imagery products in the fall from the vendors and creating final products for delivery to PSAPs.
- Other tasks include regular team meetings and ongoing outreach to federal, state and local partners.

NC Department of Transportation (NCDOT)

- Attended weekly project meetings.
- Received and evaluated compliance documentation from contractors, including control surveys, Imagery Acquisition reports, and Aerotriangulation Post-Processing Reports.
- Participated in VOICE application development and testing tasks.
- Participated in review of regional tile samples from each vendor to assess radiometry consistency across the project area.
- Attended Ortho Gen Workshop.
- Assessed 3.8 Preliminary Imagery Web Services from vendors to finalize radiometry for the project.
- Provided technical support for project planning.

NC Department of Public Safety: NC Geodetic Survey (NCGS)

- Attended weekly project meetings.
- Performed CORS maintenance when needed in the project area.
- Received and evaluated submitted Attachment C-1: Control Surveys Reports to ensure surveying activities were performed to project specifications for horizontal accuracy.
- Hosted and attended the Ortho Gen Workshop to bring together the vendors and project team to discuss next steps.

Acquisition Vendors

This section summarizes the accomplishments of the four prime acquisition vendors selected through the Qualifications-Based Selection (QBS) process. The selected vendors are Atlas Geographic Data, Sanborn Map Company, Spatial Data Consultants, Surdex Corporation, and Surveying and Mapping LLC (SAM). The fully executed contracts were awarded on January 11, 2022. Each of the contracts consists of six primary tasks as follows:

- Task 1 – Flight Planning
- Task 2 – Imagery Acquisition
- Task 3 – Aerotriangulation and Ortho Generation
- Task 4 – Product Delivery and Data Acceptance
- Task 5 – Quality Review and Resolutions Reporting
- Task 6 – Closeout

For the April through June 2022 reporting period, the status of all tasks is listed below:

Task	Reported Percent Complete (as of latest invoice)				
	Atlas Geographic Data	Sanborn Map Company	Spatial Data Consultant	Surdex Corporation	Surveying and Mapping (SAM)
Task 1: Flight Planning	100%	100%	100%	100%	97%
Task 2: Acquisition	100%	100%	100%	75%	88%
Task 3: Aerotriangulation and Ortho Generation	82%	78%	90%	96%	11%
Task 4: Product Delivery and Data Acceptance	50%	25%	50%	33%	0%
Task 5: Quality Review Resolutions	0%	0%	0%	0%	0%
Task 6: Closeout	0%	0%	0%	0%	0%

[Acquisition of imagery for 26 counties began on January 31st, 2022 and was completed on March 21, 2022.]

Schedule

The following represents the project's core deliverables milestones for plan and actual status:

Task	Item	Planned Start	Planned Finish	Actual Finish/Percent Complete
1	Project Initiation	7/1/2021	12/31/2021	
	Issue RFQ for Orthoimagery QBS	7/29/2021	7/29/2021	7/29/2021
	Closing date for RFQ responses	8/19/2021	8/19/2021	8/19/2021
	Contract NCGS and NCDOT	8/1/2021	8/1/2021	8/12/2021
	Host workshop for selected applicants	9/28/2021	9/28/2021	9/28/2021
	Technical and cost proposals due	10/14/2021	10/14/2021	10/14/2021
	Negotiate with selected applicants	10/26/2021	10/26/2021	10/26/2021
	Issue Purchase Orders	11/22/2021	11/22/2021	12/17/2021
	Conduct Kickoff Meeting	12/13/2021	12/13/2021	12/13/2021
	Contract QC Service Provider	1/1/2022	1/31/2022	4/14/2022
2	Planning and Design	10/15/2021	4/30/2022	
	CORS Upgrades	10/15/2021	3/1/2022	1/12/2022
	Validation Range	10/15/2021	1/14/2022	2/22/2022
	RTN Maintenance	10/15/2021	Ongoing	
	Control Surveys and Attachment C-1: Control Surveys Report	12/13/2021	4/2/2022	4/11/2022
3A	Acquisition	2/1/2022	4/26/2022	
	Acquire Imagery for 26 Counties	2/1/2022	4/15/2022	3/21/2022
	Attachment D: Imagery Acquisition Compliance Report	2/1/2022	4/26/2022	7/18/2022
3B	Acquisition Post-Processing	2/1/2022	5/27/2022	
	Attachment E: GNSS-IMU Post Processing & Aerotriangulation Report	3/1/2022	5/27/2022	7/18/2022
	Ortho Generation Workshop	4/21/2022	4/21/2022	4/21/2022
	Study Area Web Map Service	4/15/2022	5/31/2022	5/31/2022
4	Quality Review Production and Product Delivery	5/21/2022	10/7/2022	
	QC Production Cycle	5/21/2022	10/7/2022	
5	Implementation	11/14/2022	1/29/2023	
	Product Delivery	11/14/2022	11/18/2022	
	Implement the NC OneMap Geospatial Portal solution	12/1/2022	Ongoing	
	60 day End-User Evaluation	11/18/2022	1/28/2023	
6	Project Closeout	12/1/2022	4/31/2023	
	Final Data Packaging and Final Reports	12/1/2022	4/31/2023	
	Project Closeout	4/1/2023	4/31/2023	

Budget

The expenditures for the project are summarized below. Note the current reporting period represents April 1, 2022 – June 30, 2022. The total budget for the project is \$3,430,142.

Item	This Reporting Period	Cumulative to Date	Percent Expended to Date
CGIA			
CGIA Labor	\$32,240.00	\$94,120.00	26.9%
ITS Hosting and Information Technology	\$0.00	\$0.00	0.0%
CGIA Travel & Reimbursable Expenses	\$0.00	\$0.00	0.0%
CGIA Total	\$0.00	\$0.00	0.0%
Subcontractors			
NCDPS-NCGS	\$56,735.32	\$157,409.82	76.8%
NCDOT	\$38,149.13	\$43,157.81	27.8%
Atlas Geographic Data	\$140,771.33	\$333,893.41	50.9%
Surveying and Mapping (SAM)	\$37,541.62	\$123,286.25	43.3%
Surdex	\$260,694.25	\$351,366.05	59.2%
Sanborn Map Company	\$119,603.35	\$236,834.09	59.4%
Spatial Data Consultants	\$171,837.90	\$351,952.20	59.4%
VOICE	\$0.00	\$0.00	0.0%
Subcontractor Total	\$825,332.90	\$1,597,899.63	53.9%
Total (for Project)	\$857,572.90	\$1,692,019.63	49.3%

Major Tasks Identified for 3rd Quarter 2022

CGIA

- Host virtual training webinar in early July for the online VOICE application with PSAPs and County end-users who will be participating in the VOICE quality review process.
- Continue to test validation workflows for receiving final imagery products in the fall from the vendors and creating final products for delivery to PSAPs.
- Coordinate outreach with PSAPs and County end-users to create accounts in VOICE platform for quality review of the imagery products through the summer.
- Perform quality review of the imagery through VOICE.
- Screen calls/issues found by all users in the VOICE platform and pass any valid issues to the vendors for resolution.
- Other tasks include regular team meetings and ongoing outreach to federal, state and local partners.

NCDOT

- Attend weekly project meetings.
- Perform quality review of the imagery through VOICE.

- Assist in screening calls/issues found by all users in the VOICE platform.
- Continue technical support for project planning.

NCGS

- Attend weekly project meetings.
- Perform CORS maintenance when needed in the project area.
- Begin assessment of horizontal quality control to prepare for validation of the horizontal accuracy of the imagery received this fall.
- Attend Ortho Gen Workshop.

Project Issues

There are no financial or technical issues to prevent the team from completing the project on time and within budget.

As a result of the 2022 budget bill, CGIA has received appropriated funding for all Professional Services staff. Therefore, after July 1, 2022, the Northern Piedmont and Mountains 2022 project will no longer require the CGIA Labor line item to be billed to the NC 911 Board.

Please contact me by phone at (919) 754-6588 or email at tim.johnson@nc.gov if you have questions about this report or about contractual or administrative aspects of the project. Contact Ben Shelton of CGIA at (919) 754-6377 or email at ben.shelton@nc.gov regarding technical matters related to the project.

Sincerely,



Tim Johnson, GISP
Geographic Information Officer
Center for Geographic Information and Analysis

E-BILL

Account Summary for DIT-410229005003089-MGJ

	This Month	Year-to-Date
Previous Balance	\$710,626.79	
Payments	-\$13,845.00	-\$147,019.50
Outstanding Balance	\$696,781.79	
New Charges	\$124,383.73	\$968,185.02
Current Balance	\$821,165.52	

Payments

	Amount
04/22/22 Payment - ck 244328, 244329	-\$13,845.00
Total	-\$13,845.00

Payment Location/Address

NC Dept of Information Technology
Fiscal Services
P.O. Box 17209
Raleigh, NC 27619-7209

Payment Due: 31-May-22

DIT Customer Support Center

919-754-6000 or toll free 1-800-722-3946

Approved for payment: _____

Categorized Services & Equipment

DIT-410229005003089-MGJ - 911 BOARD - CGIA-IMAGE22

CGIA	\$124,383.73
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Network, Circuits & Other Services, Equipment

BILLCODE_MGJ Other Line Items

3,195.9	IMAGE - DIRECT BILL FOR 911 30-Apr-22	\$3,195.88
5,469.6	IMAGE - DIRECT BILL FOR 911 30-Apr-22	\$5,469.65
39,140	IMAGE - DIRECT BILL FOR 911 30-Apr-22	\$39,140.00
23,684.8	IMAGE - DIRECT BILL FOR 911 30-Apr-22	\$23,684.75
38,333.4	IMAGE - DIRECT BILL FOR 911 30-Apr-22	\$38,333.45
112	PROJECT CONSULTING SVCS-911 30-Apr-22	\$14,560.00
	Subtotal	\$124,383.73

Total for BILLCODE_MGJ \$124,383.73

Account Summary for DIT-410229005003089-MGJ

	This Month	Year-to-Date
Previous Balance	\$821,165.52	
Payments	-\$821,165.52	-\$968,185.02
Outstanding Balance	\$0.00	
New Charges	\$708,425.96	\$1,676,610.98
Current Balance	\$708,425.96	

Payments

	Amount
05/13/22 Payment - ck 2445292	-\$696,781.79
05/27/22 Payment - ck 245979	-\$124,383.73
Total	-\$821,165.52

Payment Location/Address
 NC Dept of Information Technology
 Fiscal Services
 P.O. Box 17209
 Raleigh, NC 27619-7209

Payment Due: 30-Jun-22

DIT Customer Support Center
 919-754-6000 or toll free 1-800-722-3946

Approved for payment: _____

Categorized Services & Equipment

DIT-410229005003089-MGJ - 911 BOARD - CGIA-IMAGE22

CGIA	\$708,425.96
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Network, Circuits & Other Services, Equipment

BILLCODE_MGJ Other Line Items

3,151.9	IMAGE - DIRECT BILL FOR 911 31-May-22	\$3,151.89
99,999	IMAGE - DIRECT BILL FOR 911 31-May-22	\$99,999.00
11,968.5	IMAGE - DIRECT BILL FOR 911 31-May-22	\$11,968.45
15,498.2	IMAGE - DIRECT BILL FOR 911 31-May-22	\$15,498.20
20,812.5	IMAGE - DIRECT BILL FOR 911 31-May-22	\$20,812.50
37,541.6	IMAGE - DIRECT BILL FOR 911 31-May-22	\$37,541.62
39,883.8	IMAGE - DIRECT BILL FOR 911 31-May-22	\$39,883.80
40,698.8	IMAGE - DIRECT BILL FOR 911 31-May-22	\$40,698.81
55,219.8	IMAGE - DIRECT BILL FOR 911 31-May-22	\$55,219.79
56,340.7	IMAGE - DIRECT BILL FOR 911 31-May-22	\$56,340.70
56,735.3	IMAGE - DIRECT BILL FOR 911 31-May-22	\$56,735.32
63,297.9	IMAGE - DIRECT BILL FOR 911 31-May-22	\$63,297.88
99,999	IMAGE - DIRECT BILL FOR 911 31-May-22	\$99,999.00
99,999	IMAGE - DIRECT BILL FOR 911 31-May-22	\$99,999.00
56	PROJECT CONSULTING SVCS-911 31-May-22	\$7,280.00

Subtotal \$708,425.96

Total for BILLCODE_MGJ \$708,425.96

Account Summary for DIT-410229005003089-MGJ

	This Month	Year-to-Date
Previous Balance	\$708,425.96	
Payments	-\$708,425.96	-\$708,425.96
Outstanding Balance	\$0.00	
New Charges	\$10,400.00	\$10,400.00
Current Balance	\$10,400.00	

Payments

	Amount
06/24/22 Payment - ck 247547	-\$708,425.96
Total	-\$708,425.96

Payment Location/Address
 NC Dept of Information Technology
 Fiscal Services
 P.O. Box 17209
 Raleigh, NC 27619-7209

Payment Due: 31-Jul-22

DIT Customer Support Center
 919-754-6000 or toll free 1-800-722-3946

Approved for payment: _____

Categorized Services & Equipment

DIT-410229005003089-MGJ - 911 BOARD - CGIA-IMAGE22

CGIA	\$10,400.00
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Network, Circuits & Other Services, Equipment

BILLCODE_MGJ Other Line Items

80	PROJECT CONSULTING SVCS-911 30-Jun-22	\$10,400.00
	Subtotal	\$10,400.00

Total for BILLCODE_MGJ \$10,400.00

ACCOUNTS PAYABLE

FUND	CENTER	ACCOUNT	PAY ENTITY	CTRL NO	PAYMENT DATE	CHECK NO	INVOICE NO	\$ 810,969.64		VENDOR NO	VENDOR	VENDOR NAME	INVOICE DATE	LINE ITEM DESCRIPTION	PO NUMBER	PO LINE NO	VENDOR REMIT MESSAGE
								AMOUNT PAID									
7115	1082	532199	41PT	2267	04/07/22	150042	ACD-NPM22-1101	39,140.00		203251160	01	ATLAS GEOGRAPHIC DATA INC	02/03/22	PLANNING, ACQUISITIO	EPS206319	1	
7115	1082	532199	41PT	2277	04/28/22	150300	AGD-NPM22-1103	19,642.20		203251160	01	ATLAS GEOGRAPHIC DATA INC	04/05/22	PLANNING, ACQUISITIO	EPS206319	1	
7115	1082	532199	41PT	2277	04/28/22	150300	AGD-NPM22-1103	18,691.25		203251160	01	ATLAS GEOGRAPHIC DATA INC	04/05/22	ORTHO GENERATION, PR	EPS206319	2	
7115	1082	532199	41PT	2289	05/19/22	150586	AGD-NPM22-1104	20,244.88		203251160	01	ATLAS GEOGRAPHIC DATA INC	05/03/22	PLANNING, ACQUISITIO	EPS206319	1	CGIA CONTRACT NUMBER IMAGE22-03
7115	1082	532199	41PT	2289	05/19/22	150586	AGD-NPM22-1104	43,053.00		203251160	01	ATLAS GEOGRAPHIC DATA INC	05/03/22	ORTHO GENERATION, PR	EPS206319	2	CGIA CONTRACT NUMBER IMAGE22-03
7115	1082	532199	41PT	2267	04/07/22	150083	4000032528	3,195.88		566000967	Y	NC DEPT OF TRANSPORTATION	02/17/22	IMAGE22 - FY21-22	EPS131979	1	
7115	1082	532199	41PT	2277	04/28/22	150321	4000033415	5,469.65		566000967	Y	NC DEPT OF TRANSPORTATION	04/14/22	IMAGE22 - FY21-22	EPS131979	1	
7115	1082	532199	41PT	2289	05/19/22	150621	4000034170	11,968.45		566000967	Y	NC DEPT OF TRANSPORTATION	05/11/22	IMAGE22 - FY21-22	EPS131979	1	CUST 67549
7115	1082	532199	41PT	2293	05/26/22	150705	4000032804	3,151.89		566000967	Y	NC DEPT OF TRANSPORTATION	03/21/22	IMAGE22 - FY21-22	EPS131979	1	CUST 67549
7115	1082	532199	41PT	2283	05/05/22	244928	S-548	56,735.32		300712287	13	NC DPS GENERAL OPERATIONS	02/03/22	IMAGE22 - FY21-22	EPS131987	1	
7115	1082	532199	41PT	2283	05/05/22	150368	NPM22-03	20,442.10		561963091	02	SPATIAL DATA CONSULTANTS	04/05/22	PLANNING, ACQUISITIO	EPS206321	1	
7115	1082	532199	41PT	2283	05/05/22	150368	NPM22-03	95,055.10		561963091	02	SPATIAL DATA CONSULTANTS	04/05/22	ORTHO GENERATION, PR	EPS206321	2	
7115	1082	532199	41PT	2289	05/19/22	150616	NPM22-04	11,086.50		561963091	02	SPATIAL DATA CONSULTANTS	05/02/22	PLANNING, ACQUISITIO	EPS206321	1	IMAGE22-06
7115	1082	532199	41PT	2289	05/19/22	150616	NPM22-04	45,254.20		561963091	02	SPATIAL DATA CONSULTANTS	05/02/22	ORTHO GENERATION, PR	EPS206321	2	IMAGE22-06
7115	1082	532199	41PT	2283	05/05/22	150350	5515	139,882.75		430690641	B	SURDEX CORPORATION	04/10/22	PLANNING, ACQUISITIO	EPS206322	1	
7115	1082	532199	41PT	2289	05/19/22	150606	5544	120,811.50		430690641	B	SURDEX CORPORATION	05/06/22	PLANNING, ACQUISITIO	EPS206322	1	IMAGE22-04
7115	1082	532199	41PT	2283	05/05/22	150377	201146605	25,286.62		742704974	A	SURVEYING AND MAPPING LLC	04/11/22	PLANNING, ACQUISITIO	EPS206323	1	
7115	1082	532199	41PT	2283	05/05/22	150377	201146605	12,255.00		742704974	A	SURVEYING AND MAPPING LLC	04/11/22	ORTHO GENERATION, PR	EPS206323	2	
7115	1082	532199	41PT	2267	04/07/22	150032	COS00008765	23,684.75		133980333	03	THE SANBORN MAP COMPANY INC.	02/10/22	PLANNING, ACQUISITIO	EPS206320	1	
7115	1082	532199	41PT	2283	05/05/22	150333	COS00008817	10,881.55		133980333	03	THE SANBORN MAP COMPANY INC.	04/07/22	PLANNING, ACQUISITIO	EPS206320	1	
7115	1082	532199	41PT	2283	05/05/22	150333	COS00008817	29,817.26		133980333	03	THE SANBORN MAP COMPANY INC.	04/07/22	ORTHO GENERATION, PR	EPS206320	2	
7115	1082	532199	41PT	2289	05/19/22	150568	COS00008840	4,427.14		133980333	03	THE SANBORN MAP COMPANY INC.	05/06/22	PLANNING, ACQUISITIO	EPS206320	1	IMAGE22-05
7115	1082	532199	41PT	2289	05/19/22	150568	COS00008840	50,792.65		133980333	03	THE SANBORN MAP COMPANY INC.	05/06/22	ORTHO GENERATION, PR	EPS206320	2	IMAGE22-05

LABOR

DIT - CGIA
Staff Billing Report
Activity: April 2022

	Client	Activity	Product/Ser	Memo/Description	Rates	Duration	Billable	Amount
Ben Shelton								
	IMAGE22	04/04/2022	Services:55	Project Management	130.00	2	Yes	260.00
	IMAGE22	04/06/2022	Services:55	Project Management	130.00	4	Yes	520.00
	IMAGE22	04/06/2022	Services:40	Presentations/Demonstrations/Meetings	130.00	1	Yes	130.00
	IMAGE22	04/07/2022	Services:55	Project Management	130.00	5	Yes	650.00
	IMAGE22	04/08/2022	Services:55	Project Management	130.00	4	Yes	520.00
	IMAGE22	04/11/2022	Services:55	Project Management	130.00	4	Yes	520.00
	IMAGE22	04/12/2022	Services:55	Project Management	130.00	6	Yes	780.00
	IMAGE22	04/12/2022	Services:40	Presentations/Demonstrations/Meetings	130.00	1	Yes	130.00
	IMAGE22	04/13/2022	Services:55	Project Management	130.00	7	Yes	910.00
	IMAGE22	04/13/2022	Services:40	Presentations/Demonstrations/Meetings	130.00	1	Yes	130.00
	IMAGE22	04/14/2022	Services:55	Project Management	130.00	8	Yes	1,040.00
	IMAGE22	04/16/2022	Services:55	Project Management	130.00	3	Yes	390.00
	IMAGE22	04/18/2022	Services:55	Project Management	130.00	5	Yes	650.00
	IMAGE22	04/19/2022	Services:55	Project Management	130.00	6	Yes	780.00
	IMAGE22	04/20/2022	Services:55	Project Management	130.00	5	Yes	650.00
	IMAGE22	04/20/2022	Services:40	Presentations/Demonstrations/Meetings	130.00	1	Yes	130.00
	IMAGE22	04/21/2022	Services:55	Project Management	130.00	4	Yes	520.00
	IMAGE22	04/21/2022	Services:40	Presentations/Demonstrations/Meetings	130.00	4	Yes	520.00
	IMAGE22	04/22/2022	Services:55	Project Management	130.00	5	Yes	650.00
	IMAGE22	04/25/2022	Services:55	Project Management	130.00	5	Yes	650.00
	IMAGE22	04/26/2022	Services:55	Project Management	130.00	4	Yes	520.00
	IMAGE22	04/27/2022	Services:55	Project Management	130.00	5	Yes	650.00
	IMAGE22	04/28/2022	Services:55	Project Management	130.00	3	Yes	390.00
	IMAGE22	04/29/2022	Services:55	Project Management	130.00	2	Yes	260.00
Total for Ben Shelton						95		\$ 12,350.00
Darrin Smith								
	IMAGE22	04/21/2022	Services:65	Project Team Meetings	130.00	5	Yes	650.00
Total for Darrin Smith						5		\$ 650.00
Matthew McLamb								
	IMAGE22	04/06/2022	Services:65	Project Team Meetings	130.00	1	Yes	130.00
	IMAGE22	04/13/2022	Services:65	Project Team Meetings	130.00	1	Yes	130.00
	IMAGE22	04/28/2022	Services:65	Project Team Meetings	130.00	1	Yes	130.00
Total for Matthew McLamb						3		\$ 390.00
Tim Johnson								
	IMAGE22	04/06/2022	Services:15	Consulting	130.00	1	Yes	130.00
	IMAGE22	04/07/2022	Services:15	Consulting	130.00	1	Yes	130.00
	IMAGE22	04/14/2022	Services:15	Consulting	130.00	1	Yes	130.00
	IMAGE22	04/21/2022	Services:15	Consulting	130.00	3	Yes	390.00
	IMAGE22	04/28/2022	Services:15	Consulting	130.00	1	Yes	130.00
Total for Tim Johnson						7		\$ 910.00
TOTAL						110		\$ 14,300.00

IMAGE22 Monthly Time Report
Time Activities by Employee

Activity: May 2022

	Date	Client	vice	Memo/Description	Rates	Duration	Billable	Amount
Ben Shelton								
	05/02/2022	IMAGE22	Services:55	Project Management	130.00	3	Yes	390.00
	05/03/2022	IMAGE22	Services:55	Project Management	130.00	2	Yes	260.00
	05/04/2022	IMAGE22	Services:55	Project Management	130.00	2	Yes	260.00
	05/06/2022	IMAGE22	Services:55	Project Management	130.00	6	Yes	780.00
	05/09/2022	IMAGE22	Services:55	Project Management	130.00	3	Yes	390.00
	05/10/2022	IMAGE22	Services:55	Project Management	130.00	2	Yes	260.00
	05/11/2022	IMAGE22	Services:55	Project Management	130.00	2	Yes	260.00
	05/17/2022	IMAGE22	Services:55	Project Management	130.00	0.5	Yes	65.00
	05/18/2022	IMAGE22	Services:40	Presentations/Demonstrations/Meetings	130.00	1	Yes	130.00
	05/18/2022	IMAGE22	Services:55	Project Management	130.00	3	Yes	390.00
	05/19/2022	IMAGE22	Services:40	Presentations/Demonstrations/Meetings	130.00	1	Yes	130.00
	05/19/2022	IMAGE22	Services:55	Project Management	130.00	4	Yes	520.00
	05/20/2022	IMAGE22	Services:55	Project Management	130.00	4	Yes	520.00
	05/23/2022	IMAGE22	Services:55	Project Management	130.00	3	Yes	390.00
	05/24/2022	IMAGE22	Services:55	Project Management	130.00	1.5	Yes	195.00
	05/24/2022	IMAGE22	Services:40	Presentations/Demonstrations/Meetings	130.00	1	Yes	130.00
	05/25/2022	IMAGE22	Services:55	Project Management	130.00	3	Yes	390.00
	05/26/2022	IMAGE22	Services:55	Project Management	130.00	2.5	Yes	325.00
	05/27/2022	IMAGE22	Services:55	Project Management	130.00	3	Yes	390.00
	05/31/2022	IMAGE22	Services:55	Project Management	130.00	2.5	Yes	325.00
Total for Ben Shelton						50		\$ 6,500.00
Darrin Smith								
	05/23/2022	IMAGE22	Services:30	VOICE Analysis	130.00	0.5	Yes	65.00
	05/24/2022	IMAGE22	Services:65	VOICE Team Meetings	130.00	1	Yes	130.00
	05/31/2022	IMAGE22	Services:65	VOICE Team Meetings	130.00	1	Yes	130.00
Total for Darrin Smith						2.5		\$ 325.00
Matthew McLamb								
	05/05/2022	IMAGE22	Services:65	Project Team Meetings	130.00	0.5	Yes	65.00
	05/12/2022	IMAGE22	Services:65	Project Team Meetings	130.00	0.5	Yes	65.00
	05/18/2022	IMAGE22	Services:65	Project Team Meetings	130.00	1	Yes	130.00
	05/19/2022	IMAGE22	Services:65	Project Team Meetings	130.00	1	Yes	130.00
	05/26/2022	IMAGE22	Services:65	Project Team Meetings	130.00	0.5	Yes	65.00
Total for Matthew McLamb						3.5		\$ 455.00
Tim Johnson								
	05/11/2022	IMAGE22	Services:15	Consulting	130.00	1	Yes	130.00
	05/18/2022	IMAGE22	Services:15	Consulting	130.00	1	Yes	130.00
	05/19/2022	IMAGE22	Services:15	Consulting	130.00	2	Yes	260.00
Total for Tim Johnson						4		\$ 520.00
TOTAL						60		\$ 7,800.00

IMAGE22 Monthly Time Report

Time Activities by Employee

Activity: June 2022

	Activity	Client	Product/Ser	Memo/Description	Rates	Duration	Billable	Amount
Ben Shelton								
	06/01/2022	IMAGE22	Services:55	Project Management	130.00	3	Yes	390.00
	06/01/2022	IMAGE22	Services:40	Presentations/Demonstrations/Meetings	130.00	1	Yes	130.00
	06/02/2022	IMAGE22	Services:55	Project Management	130.00	3	Yes	390.00
	06/02/2022	IMAGE22	Services:40	Presentations/Demonstrations/Meetings	130.00	1	Yes	130.00
	06/03/2022	IMAGE22	Services:55	Project Management	130.00	3	Yes	390.00
	06/03/2022	IMAGE22	Services:40	Presentations/Demonstrations/Meetings	130.00	1	Yes	130.00
	06/06/2022	IMAGE22	Services:55	Project Management	130.00	2	Yes	260.00
	06/07/2022	IMAGE22	Services:55	Project Management	130.00	2.5	Yes	325.00
	06/09/2022	IMAGE22	Services:40	Presentations/Demonstrations/Meetings	130.00	1	Yes	130.00
	06/09/2022	IMAGE22	Services:55	Project Management	130.00	2	Yes	260.00
	06/10/2022	IMAGE22	Services:55	Project Management	130.00	3	Yes	390.00
	06/13/2022	IMAGE22	Services:55	Project Management	130.00	3	Yes	390.00
	06/14/2022	IMAGE22	Services:55	Project Management	130.00	3	Yes	390.00
	06/15/2022	IMAGE22	Services:55	Project Management	130.00	3	Yes	390.00
	06/15/2022	IMAGE22	Services:40	Presentations/Demonstrations/Meetings	130.00	1	Yes	130.00
	06/16/2022	IMAGE22	Services:55	Project Management	130.00	5	Yes	650.00
	06/17/2022	IMAGE22	Services:55	Project Management	130.00	3	Yes	390.00
	06/20/2022	IMAGE22	Services:55	Project Management	130.00	3	Yes	390.00
	06/21/2022	IMAGE22	Services:55	Project Management	130.00	3	Yes	390.00
	06/22/2022	IMAGE22	Services:55	Project Management	130.00	3	Yes	390.00
	06/22/2022	IMAGE22	Services:40	Presentations/Demonstrations/Meetings	130.00	1	Yes	130.00
	06/23/2022	IMAGE22	Services:55	Project Management	130.00	4	Yes	520.00
	06/24/2022	IMAGE22	Services:55	Project Management	130.00	4	Yes	520.00
	06/27/2022	IMAGE22	Services:55	Project Management	130.00	2	Yes	260.00
	06/28/2022	IMAGE22	Services:55	Project Management	130.00	2	Yes	260.00
	06/29/2022	IMAGE22	Services:40	Presentations/Demonstrations/Meetings	130.00	1.5	Yes	195.00
	06/29/2022	IMAGE22	Services:55	Project Management	130.00	1.5	Yes	195.00
	06/30/2022	IMAGE22	Services:55	Project Management	130.00	3	Yes	390.00
Total for Ben Shelton						68.5		\$ 8,905.00
Darrin Smith								
	06/07/2022	IMAGE22	Services:65	VOICE Team Meetings	130.00	1	Yes	130.00
	06/14/2022	IMAGE22	Services:65	VOICE Team Meetings	130.00	0.5	Yes	65.00
Total for Darrin Smith						1.5		\$ 195.00
Matthew McLamb								
	06/01/2022	IMAGE22	Services:65	Project Team Meetings	130.00	1	Yes	130.00
	06/02/2022	IMAGE22	Services:65	Project Team Meetings	130.00	0.5	Yes	65.00
	06/09/2022	IMAGE22	Services:65	Project Team Meetings	130.00	0.5	Yes	65.00
	06/15/2022	IMAGE22	Services:65	Project Team Meetings	130.00	1	Yes	130.00
	06/16/2022	IMAGE22	Services:65	Project Team Meetings	130.00	0.5	Yes	65.00
	06/23/2022	IMAGE22	Services:65	Project Team Meetings	130.00	0.5	Yes	65.00
Total for Matthew McLamb						4		\$ 520.00
Tim Johnson								
	06/02/2022	IMAGE22	Services:15	Consulting	130.00	1	Yes	130.00
	06/22/2022	IMAGE22	Services:15	Consulting	130.00	1	Yes	130.00
	06/23/2022	IMAGE22	Services:15	Consulting	130.00	1	Yes	130.00
	06/24/2022	IMAGE22	Services:15	Consulting	130.00	2	Yes	260.00
	06/30/2022	IMAGE22	Services:15	Consulting	130.00	1	Yes	130.00
Total for Tim Johnson						6		\$ 780.00
TOTAL						80		\$ 10,400.00

APPROVED INVOICES



North Carolina Geodetic Survey
 4298 Mail Service Center
 Raleigh, NC 27699-4298

Invoice

Date	Invoice #
2/3/2022	S-548

Bill To
NC Department of Information Technology CGIA Attn: Tim Johnson 20322 Mail Service Center Raleigh, N.C. 27699-0322

P.O. No.	Terms	Project
EP5131987	Net 30	N. Piedmont & Mountain O...

Quantity	Description	Rate	Amount
	Northern Piedmont and Mountains Orthoimagery 2022 Project		
23.5	Validation range maintenance and replacement of QC points (Tasks 2.2.1 and 2.2.2) Dec. 1-2, 2021 BD	46.77	1,099.10
1	Validation range maintenance and replacement of QC points (Tasks 2.2.1 and 2.2.2) Jan. 2, 2022 BD	46.77	46.77
2	Validation range maintenance and replacement of QC points (Tasks 2.2.1 and 2.2.2) Jan. 5, 2022 BD	46.77	93.54
8	Upgrade CORS GNSS receiver/antenna (Task 2.1.1) Jan. 4, 2022 WK	46.77	374.16
7	Upgrade CORS GNSS receiver/antenna (Task 2.1.1) Jan. 5, 2022 BD	46.77	327.39
11	Upgrade CORS GNSS receiver/antenna (Task 2.1.1) Jan. 3-4, 2022 BD	46.77	514.47
10	Upgrade CORS GNSS receiver/antenna (Task 2.1.1) Jan. 12, 2022 MB	46.77	467.70
	Trimble Pivot software maintenance (Task 2.1.2) Jan. 12, 2022	53,740.80	53,740.80
	Striping paint for validation range targets (Task 2.2.1) Dec. 1, 2021	71.39	71.39

Total \$56,735.32

RECEIVED

By Ben Shelton at 12:52 pm, Apr 29, 2022



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

Invoice

Bill To:
ITS-CGIA
ATTN: TIM JOHNSON
PO Box 17209
RALEIGH, NC 27609-7209

Order Information:
BP Number: 1000177066
Customer Number: 67549
Invoice Number: 4000031619
Sales Order Number: 2000051193
Payment Terms: Net due 60 days
Billing Date: 11/30/2021
Due Date: 01/29/2022

EP5131979

Remit To:

North Carolina Department of Transportation
Fiscal Section - Accounts Receivable Unit
1514 Mail Service Center
Raleigh, North Carolina 27699-1514

Contact Person: Stephanie Benson

Phone: +1 (919) 707-4208-00
Fax: +1 (919) 715-8718-000
Email: sbenson@ncdot.gov

Invoice Details

Item	Description	Quantity	Unit Price	Amount
0010	INTERAGENCY REIMBURSEMENT AGREEMENT EXECUTED ON 09/02/21 WITH THE NORTH CAROLINA DEPARTMENT OF INFORMATION TECHNOLOGY CENTER FOR GEOGRAPHIC INFORMATION AND ANALYSIS CONSISTING OF PROVIDING ORTHOIMAGERY ADVISORY AND TECHNICAL SERVICES FOR THE DIGITAL NORTHERN PIEDMONT AND MOUNTAINS 2022 PROJECT IN 28 COUNTIES OF NORTH CAROLINA, TOTALING APPROXIMATELY 12,349 SQUARE MILES AND 13,771 ORTHOIMAGERY TILES. COSTS INCURRED FOR THE MONTH OF OCTOBER 2021 TOTAL \$14,223.78 PER ATTACHED EMAIL AND DOCUMENTATION RECEIVED FROM RANDY DILLARD OF NCDOT'S PHOTOGRAMMERY UNIT.	1	\$14,223.78	\$14,223.78
Total Amount Due				\$14,223.78

Please return the attached copy of this invoice to ensure proper credit for your payment. Remittances should be made payable to N.C. Department of Transportation. According to State Cash Management G.S.25-3-506, a \$35.00 fee may be imposed for a check on which payment has been refused.

RECEIVED
By Ben Shelton at 9:16 am, Dec 07, 2021



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

Invoice

Bill To: ITS-CGIA ATTN: TIM JOHNSON PO Box 17209 RALEIGH, NC 27609-7209	Order Information: BP Number: 1000177066 Customer Number: 67549 Invoice Number: 4000032528 Sales Order Number: 2000051193 Payment Terms: Net due 60 days Billing Date: 02/17/2022 Due Date: 04/18/2022
--	--

EP5131979

Remit To:

North Carolina Department of Transportation
Fiscal Section - Accounts Receivable Unit
1514 Mail Service Center
Raleigh, North Carolina 27699-1514

Contact Person: Stephanie Benson

Phone: +1 (919) 707-4208-00
Fax: +1 (919) 715-8718-000
Email: sbenson@ncdot.gov

Invoice Details

Item	Description	Quantity	Unit Price	Amount
0010	INTERAGENCY REIMBURSEMENT AGREEMENT EXECUTED ON 09/02/21 WITH THE NORTH CAROLINA DEPARTMENT OF INFORMATION TECHNOLOGY CENTER FOR GEOGRAPHIC INFORMATION AND ANALYSIS CONSISTING OF PROVIDING ORTHOIMAGERY ADVISORY AND TECHNICAL SERVICES FOR THE DIGITAL NORTHERN PIEDMONT AND MOUNTAINS 2022 PROJECT IN 26 COUNTIES OF NORTH CAROLINA, TOTALING APPROXIMATELY 12,349 SQUARE MILES AND 13,771 ORTHOIMAGERY TILES. COSTS INCURRED FOR THE MONTH OF JANUARY 2022 TOTAL \$3,195.88 PER ATTACHED EMAIL AND DOCUMENTATION RECEIVED FROM RANDY DILLARD OF NCDOT'S PHOTOGRAMMERY UNIT.	1	\$3,195.88	\$3,195.88
Total Amount Due				\$3,195.88

Please return the attached copy of this invoice to ensure proper credit for your payment. Remittances should be made payable to N.C. Department of Transportation. According to State Cash Management G.S.25-3-506, a \$35.00 fee may be imposed for a check on which payment has been refused.

RECEIVED
By Ben Shelton at 8:50 am, Feb 18, 2022



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

Invoice

Bill To:
ITS-CGIA
ATTN: TIM JOHNSON
PO Box 17209
RALEIGH, NC 27609-7209

Order Information:
BP Number: 1000177066
Customer Number: 67549
Invoice Number: 4000033415
Sales Order Number: 2000051193
Payment Terms: Net due 30 Days
Billing Date: 04/14/2022
Due Date: 05/14/2022

EP5131979

Remit To:

North Carolina Department of Transportation
Fiscal Section - Accounts Receivable Unit
1514 Mail Service Center
Raleigh, North Carolina 27699-1514

Contact Person: Stephanie Benson
Phone: +1 (919) 707-4208-00
Fax: +1 (919) 715-8718-000
Email: sbenson@ncdot.gov

Invoice Details

Item	Description	Quantity	Unit Price	Amount
0010	INTERAGENCY REIMBURSEMENT AGREEMENT EXECUTED ON 09/02/21 WITH THE NORTH CAROLINA DEPARTMENT OF INFORMATION TECHNOLOGY CENTER FOR GEOGRAPHIC INFORMATION AND ANALYSIS CONSISTING OF PROVIDING ORTHOIMAGERY ADVISORY AND TECHNICAL SERVICES FOR THE DIGITAL NORTHERN PIEDMONT AND MOUNTAINS 2022 PROJECT IN 26 COUNTIES OF NORTH CAROLINA, TOTALING APPROXIMATELY 12,349 SQUARE MILES AND 13,771 ORTHOIMAGERY TILES. COSTS INCURRED FOR THE MONTH OF MARCH 2022 TOTAL \$5,469.65 PER ATTACHED EMAIL AND DOCUMENTATION RECEIVED FROM RANDY DILLARD OF NCDOT'S PHOTOGRAMMERY UNIT.	1	\$5,469.65	\$5,469.65
Total Amount Due				\$5,469.65

Please return the attached copy of this invoice to ensure proper credit for your payment. Remittances should be made payable to N.C. Department of Transportation. According to State Cash Management G.S.25-3-506, a \$35.00 fee may be imposed for a check on which payment has been refused.

RECEIVED
By Ben Shelton at 2:45 pm, Apr 14, 2022



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

Invoice

Bill To:
ITS-CGIA
ATTN: TIM JOHNSON
PO Box 17209
RALEIGH, NC 27609-7209

Order Information:
BP Number: 1000177066
Customer Number: 67549
Invoice Number: 4000031823
Sales Order Number: 2000051193
Payment Terms: Net due 60 days
Billing Date: 12/14/2021
Due Date: 02/12/2022

EP5131979

Remit To:
North Carolina Department of Transportation
Fiscal Section - Accounts Receivable Unit
1514 Mail Service Center
Raleigh, North Carolina 27699-1514

Contact Person: Stephanie Benson
Phone: +1 (919) 707-4208-00
Fax: +1 (919) 715-8718-000
Email: sbenson@ncdot.gov

Invoice Details

Item	Description	Quantity	Unit Price	Amount
0010	INTERAGENCY REIMBURSEMENT AGREEMENT EXECUTED ON 09/02/21 WITH THE NORTH CAROLINA DEPARTMENT OF INFORMATION TECHNOLOGY CENTER FOR GEOGRAPHIC INFORMATION AND ANALYSIS CONSISTING OF PROVIDING ORTHOIMAGERY ADVISORY AND TECHNICAL SERVICES FOR THE DIGITAL NORTHERN PIEDMONT AND MOUNTAINS 2022 PROJECT IN 26 COUNTIES OF NORTH CAROLINA, TOTALING APPROXIMATELY 12,349 SQUARE MILES AND 13,771 ORTHOIMAGERY TILES. COSTS INCURRED FOR THE MONTH OF NOVEMBER 2021 TOTAL \$139.48 PER ATTACHED EMAIL AND DOCUMENTATION RECEIVED FROM RANDY DILLARD OF NCDOT'S PHOTOGRAMMERY UNIT.	1	\$139.48	\$139.48
Total Amount Due				\$139.48

Please return the attached copy of this invoice to ensure proper credit for your payment. Remittances should be made payable to N.C. Department of Transportation. According to State Cash Management G.S.25-3-506, a \$35.00 fee may be imposed for a check on which payment has been refused.

RECEIVED
By Ben Shelton at 10:14 am, Mar 01, 2022



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

Invoice

Bill To: ITS-CGIA ATTN: TIM JOHNSON PO Box 17209 RALEIGH, NC 27609-7209	Order Information: BP Number 1000177066 Customer Number 67549 Invoice Number: 4000034170 Sales Order Number: 2000051193 Payment Terms Net due 30 Days Billing Date: 05/11/2022 Due Date: 06/10/2022
--	---

EP5131979

Remit To:
 North Carolina Department of Transportation
 Fiscal Section - Accounts Receivable Unit
 1514 Mail Service Center
 Raleigh, North Carolina 27699-1514

Contact Person: Stephanie Benson
Phone: +1 (919) 707-4208-00
Fax: +1 (919) 715-8718-000
Email: sbenson@ncdot.gov

Invoice Details

Item	Description	Quantity	Unit Price	Amount
0010	INTERAGENCY REIMBURSEMENT AGREEMENT EXECUTED ON 09/02/21 WITH THE NORTH CAROLINA DEPARTMENT OF INFORMATION TECHNOLOGY CENTER FOR GEOGRAPHIC INFORMATION AND ANALYSIS CONSISTING OF PROVIDING ORTHOIMAGERY ADVISORY AND TECHNICAL SERVICES FOR THE DIGITAL NORTHERN PIEDMONT AND MOUNTAINS 2022 PROJECT IN 26 COUNTIES OF NORTH CAROLINA, TOTALING APPROXIMATELY 12,349 SQUARE MILES AND 13,771 ORTHOIMAGERY TILES. COSTS INCURRED FOR THE MONTH OF APRIL 2022 TOTAL \$11,968.45 PER ATTACHED EMAIL AND DOCUMENTATION RECEIVED FROM RANDY DILLARD OF NCDOT'S PHOTOGRAMMERY UNIT.	1	\$11,968.45	\$11,968.45
Total Amount Due				\$11,968.45

Please return the attached copy of this invoice to ensure proper credit for your payment. Remittances should be made payable to N.C. Department of Transportation. According to State Cash Management G.S.25- 3-508, a \$35.00 fee may be imposed for a check on which payment has been refused.

RECEIVED
 By Ben Shelton at 9:02 am, May 11, 2022



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

Invoice

Bill To: ITS-CGIA ATTN: TIM JOHNSON PO Box 17209 RALEIGH, NC 27609-7209	Order Information: BP Number 1000177088 Customer Number 67549 Invoice Number: 4000032804 Sales Order Number: 2000051193 Payment Terms Net due 60 days Billing Date: 03/21/2022 Due Date: 05/20/2022
--	--

EP5131979

Remit To:
North Carolina Department of Transportation
Fiscal Section - Accounts Receivable Unit
1514 Mail Service Center
Raleigh, North Carolina 27699-1514

Contact Person: Stephanie Benson
Phone: +1 (919) 707-4208-00
Fax: +1 (919) 715-8718-000
Email: sbenson@ncdot.gov

Invoice Details

Item	Description	Quantity	Unit Price	Amount
0010	INTERAGENCY REIMBURSEMENT AGREEMENT EXECUTED ON 09/02/21 WITH THE NORTH CAROLINA DEPARTMENT OF INFORMATION TECHNOLOGY CENTER FOR GEOGRAPHIC INFORMATION AND ANALYSIS CONSISTING OF PROVIDING ORTHOIMAGERY ADVISORY AND TECHNICAL SERVICES FOR THE DIGITAL NORTHERN PIEDMONT AND MOUNTAINS 2022 PROJECT IN 26 COUNTIES OF NORTH CAROLINA, TOTALING APPROXIMATELY 12,349 SQUARE MILES AND 13,771 ORTHOIMAGERY TILES. COSTS INCURRED FOR THE MONTH OF FEBRUARY 2022 TOTAL \$3,151.89 PER ATTACHED EMAIL AND DOCUMENTATION RECEIVED FROM RANDY DILLARD OF NCDOT'S PHOTOGRAMMERY UNIT.	1	\$3,151.89	\$3,151.89
Total Amount Due				\$3,151.89

Please return the attached copy of this invoice to ensure proper credit for your payment. Remittances should be made payable to N.C. Department of Transportation. According to State Cash Management G.S.25-3-506, a \$35.00 fee may be imposed for a check on which payment has been refused.

RECEIVED
By Ben Shelton at 8:48 am, May 18, 2022



INVOICE

Bill To
Center for Geographic Information and Analysis Attn: Tim Johnson 3700 Wake Forest Rd. Raleigh, NC 27609

Order Information	
Invoice Number	AGD-NPM22-1103
CGIA Contract Number	IMAGE22-03
Purchase Order Number	EP5206319
Invoice Amount	\$38,333.45
Invoice Date	April 05, 2022
Performance Period	Mar. 1, 2022 to Mar. 31, 2022

Remit To
Issuing Vendor Firm: Atlas Geographic Data, Inc. Issuing Vendor Fiscal Division: A Issuing Vendor Address: 215 Racine Drive, Suite 201, Wilmington, NC 28403

Contact Information
Issuing Vendor Administrator: Larry Kirkpatrick Issuing Vendor Email: lirkpatrick@atlasgeodata.com hlambert@atlasgeodata.com Issuing Vendor Phone: 910 256 9892 Issuing Vendor Fax: 910 256 9979

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
2.	Acquisition	\$ 19,642.20
3.	Aerotriangulation and Ortho generation	\$ 18,691.25
	Total	\$ 38,333.45

RECEIVED
By Ben Shelton at 8:36 am, Apr 12, 2022



INVOICE

Bill To
Center for Geographic Information and Analysis Attn: Tim Johnson 3700 Wake Forest Rd. Raleigh, NC 27609

Order Information	
Invoice Number	AGD-NPM22-1104
CGIA Contract Number	IMAGE22-03
Purchase Order Number	EP5206319
Invoice Amount	\$63,297.88
Invoice Date	May 03, 2022
Performance Period	April 1, 2022 to April 30, 2022

Remit To
Issuing Vendor Firm: Atlas Geographic Data, Inc. Issuing Vendor Fiscal Division: A Issuing Vendor Address: 215 Racine Drive, Suite 201, Wilmington, NC 28403

Contact Information
Issuing Vendor Administrator: Larry Kirkpatrick Issuing Vendor Email: kirkpatrick@atlasgeodata.com hlambert@atlasgeodata.com Issuing Vendor Phone: 910 256 9892 Issuing Vendor Fax: 910 256 9979

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
1.	Flight Planning	\$ 1,919.00
2.	Acquisition	\$ 18,325.88
3.	Aerotriangulation and Ortho generation	\$ 43,053.00
	Total	\$ 63,297.88

RECEIVED
By Ben Shelton at 2:13 pm, May 06, 2022



INVOICE

Bill To
Center for Geographic Information and Analysis Attn: Tim Johnson 3700 Wake Forest Rd. Raleigh, NC 27609

Order Information	
Invoice Number	AGD-NPM22-1101
CGIA Contract Number	IMAGE22-03
Purchase Order Number	EP5206319
Invoice Amount	\$39,140
Invoice Date	February 03, 2022
Performance Period	Dec. 18, 2021 to Jan. 31, 2022

Remit To
Issuing Vendor Firm: Atlas Geographic Data, Inc. Issuing Vendor Fiscal Division: A Issuing Vendor Address: 215 Racine Drive, Suite 201, Wilmington, NC 28403

Contact Information
Issuing Vendor Administrator: Larry Kirkpatrick Issuing Vendor Email: lirkpatrick@atlasgeodata.com hlambert@atlasgeodata.com Issuing Vendor Phone: 910 256 9892 Issuing Vendor Fax: 910 256 9979

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
1.	Flight Planning and Control Survey	\$ 39,140.00
	Total	\$ 39,140.00

RECEIVED
By Ben Shelton at 8:12 am, Feb 07, 2022



SAM, LLC
9800 Southern Pine Boulevard, Suite i, Charlotte, NC 28273
Ofc 980-296-6100
info@sam.biz www.sam.biz

INVOICE

Bill To	Order Information	
Center for Geographic Information and Analysis Attn: Tim Johnson 3700 Wake Forest Rd. Raleigh, NC 27609	Invoice Number	201146605
	CGIA Contract Number	IMAGE22-07
	Purchase Order Number	EP5206323
	Invoice Amount	\$37,541.62
	Invoice Date	April 11, 2022
	Performance Period	March 1, 2022 – March 31, 2022

Remit To
Surveying & Mapping, LLC PO Box 732449 Dallas, TX 75373-2449 United States Phone: 512-447-0575 Fax: 512-326-3029

Contact Information
Yvonne Harding Yvonne.harding@sam.biz Phone: 704-605-4000

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
1	Flight Planning	\$10,153.12
2	Acquisition	\$15,133.50
3	Aerotriangulation and Ortho Generation	\$12,255.00
4	Product Delivery and Data Acceptance	
5	Quality Review Resolutions	
6	Closeout	

RECEIVED

By Ben Shelton at 8:45 am, Apr 12, 2022



INVOICE

Bill To
Center for Geographic Information and Analysis Attn: Tim Johnson 3700 Wake Forest Rd. Raleigh, NC 27609

Order Information	
Invoice Number	5515
CGIA Contract Number	IMAGE22-04
Purchase Order Number	EP5206322
Invoice Amount	\$139,882.75
Invoice Date	April 10, 2022
Performance Period	March 1, 2022 – March 31, 2022

Remit To
Surdex Corporation Accounts Receivable 520 Spirit of St. Louis Blvd. Chesterfield, MO 63005

Contact Information
Harold Feldman Haroldf@surdex.com 636-368-4400 636-368-4401

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
1	Attachment C Flight and Control Plan Attachment C-1	\$1,591.25
2	Task 2 Acquisition	\$86,602.00
3	Task 3 GPS IMU, AT, Attachment E, DEM Processing	\$51,689.50
	Total	\$139,882.75

RECEIVED
By Ben Shelton at 8:38 am, Apr 12, 2022



INVOICE

Bill To	Order Information	
Center for Geographic Information and Analysis Attn: Tim Johnson 3700 Wake Forest Rd. Raleigh, NC 27609	Invoice Number	5544
	CGIA Contract Number	IMAGE22-04
	Purchase Order Number	EP5206322
	Invoice Amount	\$120,811.50
	Invoice Date	May 06, 2022
	Performance Period	April 1, 2022 – April 30, 2022

Remit To	Contact Information
Surdex Corporation Accounts Receivable 520 Spirit of St. Louis Blvd. Chesterfield, MO 63005	Harold Feldman Haroldf@surdex.com 636-368-4400 636-368-4401

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
1	Attachment C Flight and Control Plan Attachment C-1	\$1,591.25
2	Attachment D, Ortho Workshop, Six Pack\Exploitation Images	\$57,722.00
3	Task 3 GPS IMU, AT, Attachment E, Ortho\DEM\Seam Processing	\$61,498.25
	Total	\$120,811.50

RECEIVED
By Ben Shelton at 2:17 pm, May 06, 2022



Sanborn | Charlotte
 6701 Carmel Road
 Suite 301
 Charlotte, NC 28226

Phone: 704.347.4552
 Toll-Free: 1.866.726.2676
 Fax: 704.347.4515
 www.sanborn.com

INVOICE

Bill To
41PT ITS ACCOUNTS PAYABLE PO BOX 17209 Raleigh, NC 27619-7209 United States Phone: 1919-754-6314 Department of Information Technology

Order Information	
Invoice Number	COS00008765
CGIA Contract Number	IMAGE22-05
Purchase Order Number	EP5206320
Invoice Amount	\$23,684.75
Invoice Date	February 10, 2022
Performance Period	December 13, 2021 through January 31, 2022

Remit To
Sanborn Map Company, Inc. Accounts Receivable 1935 Jamboree Dr., Ste 100 Colorado Springs, CO 80920

Contact Information
Maralyn Kuentler mkuentler@sanborn.com Phone: (719) 264.5564 Fax: (719) 623.0074

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
1	Flight Planning	\$ 17,391.22
2	Acquisition	\$ 6,293.53
Total		\$23,684.75

RECEIVED
 By Ben Shelton at 9:39 am, Feb 11, 2022



Sanborn | Charlotte
 6701 Carmel Road
 Suite 301
 Charlotte, NC 28226

Phone: 704.347.4552
 Toll-Free: 1.866.726.2676
 Fax: 704.347.4515
 www.sanborn.com

INVOICE

Bill To
41PT ITS ACCOUNTS PAYABLE PO BOX 17209 Raleigh, NC 27619-7209 United States Phone: 1919-754-6314 Department of Information Technology

Order Information	
Invoice Number	COS00008817
CGIA Contract Number	IMAGE22-05
Purchase Order Number	EP5206320
Invoice Amount	\$40,698.81
Invoice Date	April 7, 2022
Performance Period	March 1, 2022 through March 31, 2022

Remit To
Sanborn Map Company, Inc. Accounts Receivable 1935 Jamboree Dr., Ste 100 Colorado Springs, CO 80920

Contact Information
Maralyn Kuentler mkuentler@sanborn.com Phone: (719) 264.5564 Fax: (719) 623.0074

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
2	Acquisition	\$ 10,881.55
3	Aerotriangulation and Ortho Generation	\$ 29,817.26
Total		\$40,698.81

RECEIVED
 By Ben Shelton at 8:42 am, Apr 12, 2022



Sanborn | Charlotte
 6701 Carmel Road
 Suite 301
 Charlotte, NC 28226

Phone: 704.347.4552
 Toll-Free: 1.866.726.2676
 Fax: 704.347.4515
 www.sanborn.com

INVOICE

Bill To
41PT ITS ACCOUNTS PAYABLE PO BOX 17209 Raleigh, NC 27619-7209 United States Phone: 1919-754-6314 Department of Information Technology

Order Information	
Invoice Number	COS00008840
CGIA Contract Number	IMAGE22-05
Purchase Order Number	EP5206320
Invoice Amount	\$ 55,219.79
Invoice Date	May 6, 2022
Performance Period	April 1, 2022 through April 30, 2022

Remit To
Sanborn Map Company, Inc. Accounts Receivable 1935 Jamboree Dr., Ste 100 Colorado Springs, CO 80920

Contact Information
Maralyn Kuenstler mkuenstler@sanborn.com Phone: (719) 264.5564 Fax: (719) 623.0074

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
1	Flight Planning	\$ 1,706.76
2	Acquisition	\$ 2,720.38
3	Aerotriangulation and Ortho Generation	\$ 50,792.65
Total		\$55,219.79

RECEIVED
 By Ben Shelton at 7:54 am, May 11, 2022



1008 Hutton Lane, Suite 109
 High Point, NC 27262
 Phone: (336) 841-1247
 Fax: (336) 841-1248
www.spatialdc.com

INVOICE

Bill To
Center for Geographic Information and Analysis Attn: Tim Johnson, GISP 3700 Wake Forest Rd. Raleigh, NC 27609

Remit To
Spatial Data Consultants, Inc. 1008 Hutton Lane, Suite 109 High Point, NC 27262

Order Information	
Invoice Number	NPM22-03
CGIA Contract Number	IMAGE22-06
Purchase Order Number	EP5206321
Invoice Amount	\$115,497.20
Invoice Date	04/05/22
Performance Period	03/01/22 through 03/31/22

Contact Information
Susan S. Schall, President sschall@spatialdc.com (336) 841-1247 (office) (336) 906-3261 (cell) (336) 841-1248 (fax)

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
1	Flight Planning	\$5,399.80
2	Acquisition	\$15,042.30
3	Aero-Triangulation and Ortho Generation	\$95,055.10
	Invoice Total	\$115,497.20

RECEIVED
 By Ben Shelton at 8:42 am, Apr 12, 2022



1008 Hutton Lane, Suite 109
 High Point, NC 27262
 Phone: (336) 841-1247
 Fax: (336) 841-1248
www.spatialdc.com

INVOICE

Bill To
Center for Geographic Information and Analysis Attn: Tim Johnson, GISP 3700 Wake Forest Rd. Raleigh, NC 27609

Remit To
Spatial Data Consultants, Inc. 1008 Hutton Lane, Suite 109 High Point, NC 27262

Order Information	
Invoice Number	NPM22-04
CGIA Contract Number	IMAGE22-06
Purchase Order Number	EP5206321
Invoice Amount	\$56,340.70
Invoice Date	05/02/22
Performance Period	04/01/22 through 04/30/22

Contact Information
Susan S. Schall, Secretary-Treasurer sschall@spatialdc.com (336) 841-1247 (office) (336) 906-3261 (cell) (336) 841-1248 (fax)

Invoice Summary (per Primary Task)		
Task	Item Description	Amount
2	Acquisition	\$11,086.50
3	Aero-Triangulation and Ortho Generation	\$45,254.20
	Invoice Total	\$56,340.70

RECEIVED
 By Ben Shelton at 2:16 pm, May 06, 2022

Tab 5

Executive Director's Report

Pokey Harris

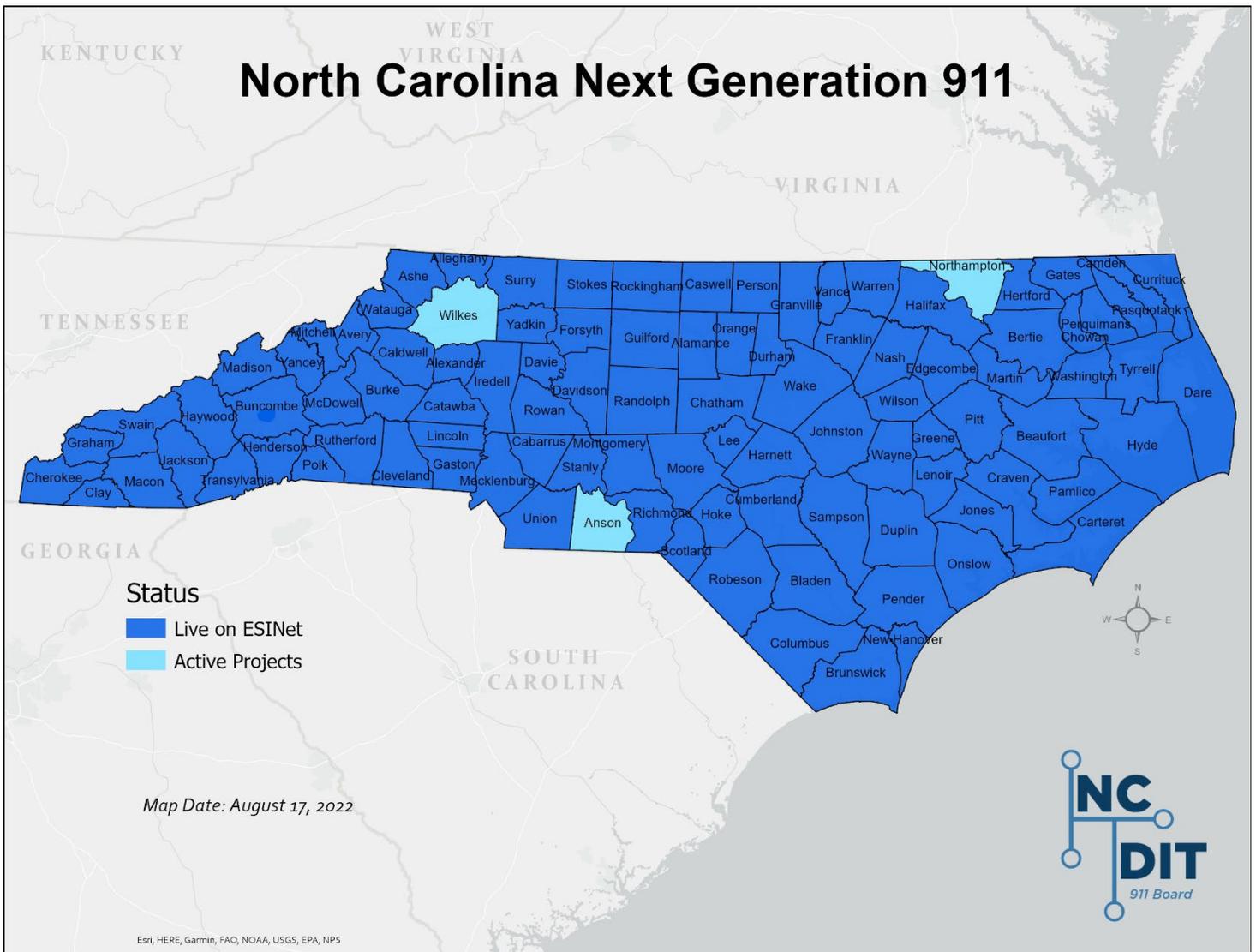
Tab 5 a)

Biennial Audit Status

Tab 5 b)

NextGen 911 Migration Status

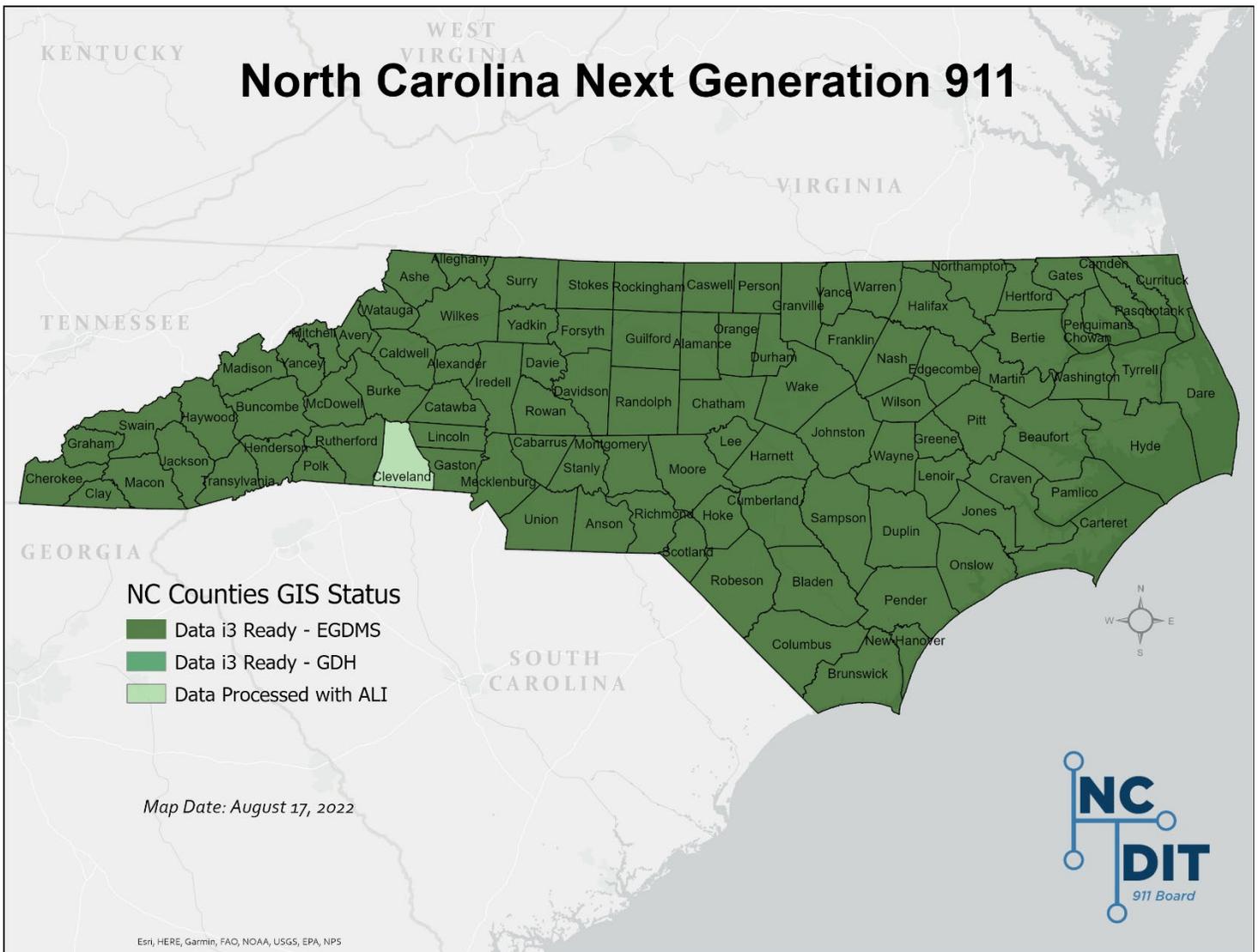
NC NG911 Migration Status



Tab 5 c)

NextGen 911 GIS Status

NC NG911 GIS Status



Tab 5 d)

**NC 988 Planning
Coalition/National Suicide
Prevention Lifeline**

Tab 5 e)

**NASNA Regional Interoperability
Workshop (Washington, DC)**

Tab 5 f)

Eastern Region PSAP Visits

On a whirlwind tour recently, Secretary Weaver and Pokey Harris, Executive Director of the 911 Board, along with 911 regional coordinator Angie Turbeville, and finance review specialist Kristen Falco, visited the PSAP telecommunicators and other county staff in Pender and Onslow counties, as well as in Jacksonville. The focus of the visit to the region was the delivery of “Pizza with Pokey” to Onslow County for being the winner of the National Public Safety Telecommunicator Week photo contest hosted by the 911 Board in April. They talked about the ESInet migration, the difference it is making to call responsiveness, and other recent triumphs and challenges. An unexpected treat was to provide well wishes to one of Pender County’s telecommunicators on her retirement day. Sandi Rooks was wrapping up 30 years in local government service, with 18 as a telecommunicator.





Tab 5 g)

Legal Brief

Amanda Reeder

Tab 6

Executive Committee Report

Jeff Shipp

Tab 7

Funding Committee Report

David Bone

Tab 8

Finance Team Report

**Marsha Tapler/Kristen Falco/
Sarah Templeton**

Tab 9
Grant Committee Report
Jeff Shipp/Pokey Harris

Tab 9 a)
PSAP Grant Program Progress
Reports

- **Onslow County 911**
- **Wilson County 911**
- **Polk County 911**
- **Chowan County 911**

PSAP Grant Program Progress Report

*** The progress report should be completed by the grant project contact and submitted 10 days prior to presentation date.
The same information will be presented to the NC 911 Board.***

1. PSAP Name: Onslow County 911
2. Form Completed By: Ray Silance
3. Completion Date: August 16, 2022
4. Grant Name: Onslow County – City of Jacksonville CAD Update and Interoperability Project
5. Total Cost of Project: \$3,464,760
6. Total Grant Award for Project: \$675,088.00
7. Project Accomplishments and Milestones to Date: Execution of contract, Completion of project kickoff and contract design review, Delivery of application software to our two sites (Onslow County and City of Jacksonville), end user training going very well and in the short rows now.
8. Project Challenges and/or Risks to Date: Nothing being a showstopper, getting two different agencies with several different divisions all on the same page and not duplicating things in one CAD system. We did put a hold on end user training for two weeks at the biggening, we are still on track currently.
9. Is Your Project Meeting the Submitted Timeline? Yes No
10. If the answer is no, provide a brief explanation and updated timeline.
11. Have monthly reports been submitted in a timely manner? Yes No
12. If the answer is no, please provide a brief description why. [Click or tap here to enter text.](#)

PSAP Grant Program Progress Report

*** The progress report should be completed by the grant project contact and submitted 10 days prior to presentation date.
The same information will be presented to the NC 911 Board.***

1. PSAP Name:Wilson County 911 Center
2. Form Completed By:Jeffrey T. Williford
3. Completion Date:May 24, 2022
4. Grant Name:Wilson County Consolette Replacement
5. Total Cost of Project:\$108,250.50
6. Total Grant Award for Project:\$108,250.50
7. Project Accomplishments and Milestones to Date:New consolettes installed and tested. Project complete.
8. Project Challenges and/or Risks to Date:Our only challenge was related to supply chain delays.
9. Is Your Project Meeting the Submitted Timeline? Yes No
10. If the answer is no, provide a brief explanation and updated timeline.
11. Have monthly reports been submitted in a timely manner? Yes No
12. If the answer is no, please provide a brief description why. [Click or tap here to enter text.](#)

PSAP Grant Program Progress Report

*** The progress report should be completed by the grant project contact and submitted 10 days prior to presentation date.

The same information will be presented to the NC 911 Board.***

1. PSAP Name:**Polk County 9-1-1**
2. Form Completed By:**Jeremy Gregg, 911 Director**
3. Completion Date:**August 5, 2022**
4. Grant Name:**Polk County E-911 Renovation and Relocation Project**
5. Total Cost of Project:**\$4,474,494.00**
6. Total Grant Award for Project:**\$2,412,964.00**
7. Project Accomplishments and Milestones to Date:**1: Issued & received requests for qualifications from architectural firms; 2) Reviewed of submitted RFQ's and completed shortlist interviews of architectural firms; 3) Contract negotiations with selected firm completed & scheduled to be presented to Polk County Board of Commissioners for approval in September 2022;**
8. Project Challenges and/or Risks to Date: **None**
9. Is Your Project Meeting the Submitted Timeline? Yes No
10. If the answer is no, provide a brief explanation and updated timeline. **The RFQ and submissions review process was delayed with selection of architect occurring approximately 45-60 days later than anticipated. Anticipate timeline schedule to adjust back to within submitted timeline during upcoming design phase with architect.**
11. Have monthly reports been submitted in a timely manner? Yes No
12. If the answer is no, please provide a brief description why. **n/a**

PSAP Grant Program Progress Report

*** The progress report should be completed by the grant project contact and submitted 10 days prior to presentation date.
The same information will be presented to the NC 911 Board.***

1. PSAP Name: Chowan Central Communications
2. Form Completed By: Herman Weiss 911 Director
3. Completion Date: June 30, 2022
4. Grant Name: Chowan Central Backup Grant
5. Total Cost of Project: 329,376.37
6. Total Grant Award for Project: 154,037.85
7. Project Accomplishments and Milestones to Date: All equipment is in place and up and running.
8. Project Challenges and/or Risks to Date: The only Challenges that I was running into was getting things shipped due to back order of some parts but we pulled it off.
9. Is Your Project Meeting the Submitted Timeline? Yes No
10. If the answer is no, provide a brief explanation and updated timeline.
11. Have monthly reports been submitted in a timely manner? Yes No
12. If the answer is no, please provide a brief description why. [Click or tap here to enter text.](#)

Tab 9 b)

FY2023 PSAP Grant

Recommendations

(Roll Call Votes Required)

Tab 9 c)

General Committee Report

Tab 10

Standards Committee Report

Donna Wright

Tab 11

Technology Committee Report

Jeff Shipp/Tom Rogers/Greg Dotson

Tab 12

911 Regional Coordinator Reports

Turbeville/Newberry/Gardner/Conner

Tab 13

Education Committee Report

Chuck Greene

Tab 13 a)

**Training Course Request: Denise
Amber Lee Center Supervisor Course
*(Roll Call Vote Required)***

Tab 13 b)

**Recruitment Campaign – Public
Service Announcement Update**

Tab 13 c)

**RCC 911 Communications and
Operations Associate Degree**

Tab 13 d)

General Committee Report

Tab 14

Recognition of the 2021 PSAP Executive Management Certificate Participants

**Jim Weaver/Dr. Dale McInnis/Donna
Wright/Pokey Harris/Regional
Coordinators**

Tab 15

Other

Pokey Harris

Adjourn

*Next NC 911 Board Meeting – Friday, September 30, 2022, 10:00 AM – 12:00 PM
Via Simultaneous Communication*

