



NORTH CAROLINA 911 BOARD MEETING

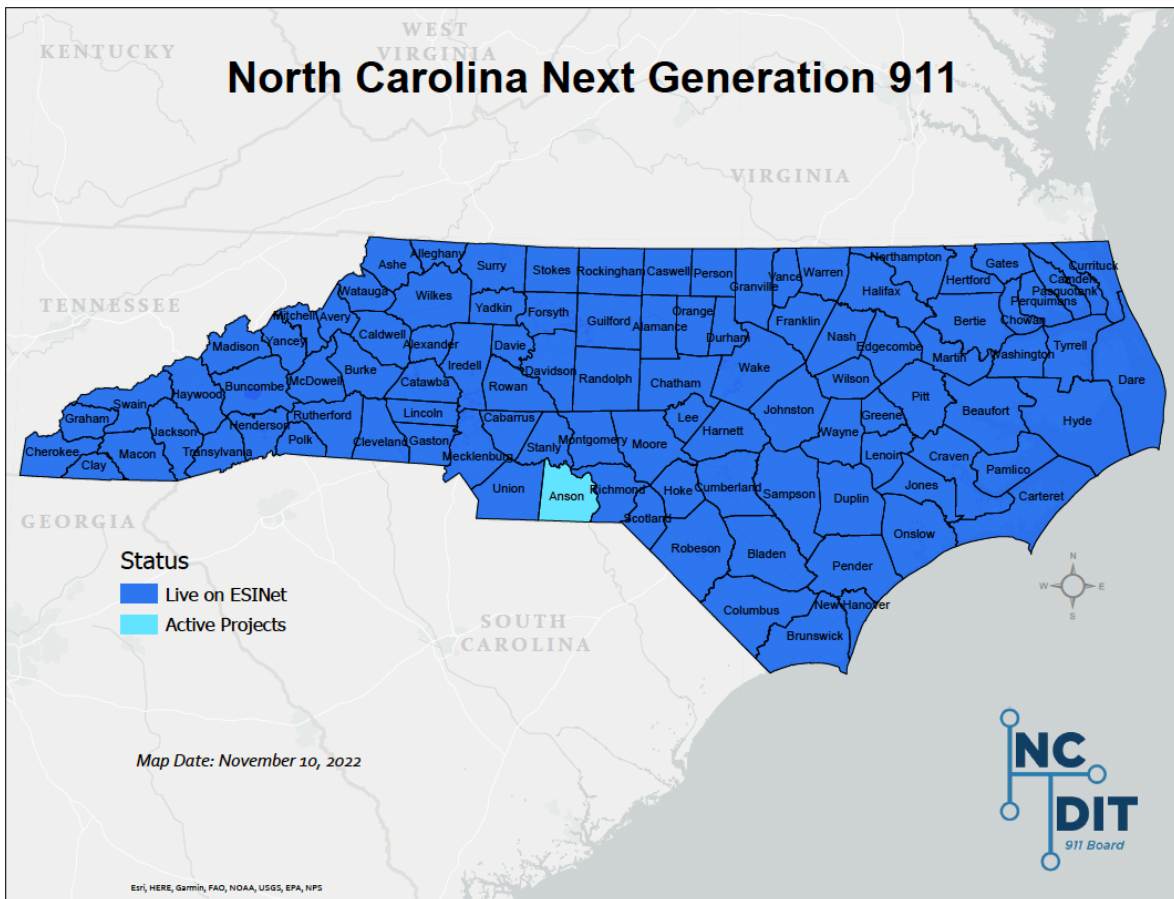
Friday, February 24, 2023

10:00 AM – 12:30 PM

Via Simultaneous Communication

[Join Microsoft Teams Meeting](#)

984-204-1487 Conference ID: 462 703 677#



Tab 1

Call to Order

Jim Weaver

- **Remembrance of Mr. Bill French,
Director of Lumberton
Communications**

Tab 2

Chair's Opening Remarks

Jim Weaver

Tab 3

Roll Call

Kristen Falco

Tab 4

Ceremonial Swearing-In of New Board Members

Pokey Harris

- **Sheriff Phil Howell**
- **Kyle Randleman**
- **Thad Southers**

Tab 5

**Reading of Statement of
Economic Interest for Board
Members**

Amanda Reeder

Tab 6

**Election of 911 Board Vice
Chair for 2023**

(Roll Call Vote Required)

Pokey Harris

Tab 7

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 8

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 9
Consent Agenda
(Roll Call Vote Required)
Pokey Harris

Tab 9 a)
Minutes of Meeting
December 2, 2022

North Carolina 911 Board Meeting

MINUTES

Friday, December 2, 2022

9:00 AM – 1:00 PM

Lumberton, NC

and

Via Simultaneous Communication

Microsoft Teams Meeting



North Carolina 911 Board Meeting Roll Call

Friday, December 2, 2022

9:00 AM - 1:00 PM

Lumberton, NC and Via Simultaneous Communication with Microsoft Teams Meeting



NC 911 Board Members	In Person	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) <i>(Joined at 11:13 AM)</i>	X		
Brian Drew, Manager of Customer Design and Implementation, CenturyLink/Lumen (LEC)			X
Bo Ferguson, Deputy City Manager, City of Durham (NCLM)	X		
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 (NACAP)		X	
John Moore, Regional Manager, Government and Education Sales, Spectrum Comm (VoIP)	X		
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			
Evan Alexander, NMAC Technician			X
Rick Blumer, NMAC Technician			X
Stephanie Connor, Western Regional Coordinator	X		
Greg Dotson, NMAC Manager	X		
Kristen Falco, Financial Review Specialist	X		
Bernard Gardner, NMAC Technician			X
Tina Gardner, North Central Regional Coordinator	X		
Tyree Grant, NMAC Technician			X
Pokey Harris, Executive Director	X		
Jesus Lopez, (NC DIT) NC 911 Board PM		X	
April Mann, NMAC Technician			X
David Newberry, South Central Regional Coordinator	X		
Amanda Reeder, Special Deputy Attorney General	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 Warner, NMAC Technician			X

North Carolina 911 Board Meeting Roll Call
Friday, December 2, 2022
9:00 AM - 1:00 PM
Lumberton, NC and Via Simultaneous Communication with Microsoft Teams Meeting



Guests	In Person	Via MS Teams	Organization
Stacy Banker		X	Mission Critical Partners
Ruth Barefoot		X	Pasquotank County
Randy Beeman		X	City of Durham
Jonathon Bell		X	Chatham County
Rachel Bello		X	Wake County
Kelli Blue	X		Robeson County
Gene Booth		X	Cumberland County
Josh Briggs		X	AT&T
John Cliff Brown		X	Sampson County
Justine Buxton		X	Randolph County
Vicki Callicut		X	Union County
Jean Claude-Rizk		X	Intrado
Justin Combs		X	Alexander County
Chad Deese	X		Robeson County
Tim Deranek	X		AT&T
Samantha Dutch	X		Scotland County
Chris Faircloth		X	Mission Critical Partners
Monica Fuller		X	NC DIT
Del Hall		X	Stokes County - Retired
Brooke Hazlett		X	Buncombe County
Topper Hightower		X	AT&T
Sheriff Phil Howell		X	Ashe County
Chris Ivey		X	Bladen County
Anne Johnson		X	NC DIT
Heather Joyner		X	Burke County
Brock Keamey		X	Greene County
Mike Kennedy	X		Carolina West Wireless
Lori Laughlin	X		High Point 911
Kim Lewis		X	Brunswick County
Patti Long		X	Brunswick County
Travis McGhee		X	Cabarrus County
Jarrett McGowan		X	NC Sheriff's Association
Matt McLamb	X		NC CGIA
Jacob McMillian		X	Robeson County
Beth Meek		X	Intrado
Buck Mims		X	National Public Safety Group
Debbie Mauney		X	Clay County
James Nehaus		X	Apex Police Department
Susan Nelson		X	GeoComm
Kyle Randleman	X		Star Telephone
Mike Reitz		X	Chatham County
Brian Ross		X	Brunswick County
Daniel Roten		X	Alleghany County
Corinne Rust		X	Charlotte Medic
Jeremy Schwartzman		X	Town of Cary
Kevin Sellers		X	Clay County
Robert Sergi		X	Intrado
Lisa Shorter		X	Mission Critical Partners
Lynn Slycord		X	Kings Mountain
Brian Smith	X		AT&T
Jimmy Stewart	X		Hoke County
Kyle Thaggard		X	City of High Point
Frank Thomason		X	Mission Critical Partners

Call to Order – Secretary and Board Chairman Jim Weaver called the meeting to order at 9:00 AM and asked to proceed with the roll call. Ms. Kelli Blue, the County Manager for Robeson County provided opening remarks and welcomed the Board, staff, and guests to Robeson County.

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

- Chair's Opening Remarks** – Chairman Weaver welcomed all individuals attending in-person and virtually to the meeting.

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. O’Sullivan recused himself from the discussion and vote for agenda item 6a, Executive Committee Report, Proposed Changes to Legislation. Ms. Wright recused herself from the discussion on agenda item 5e, Executive Directors Report, Richmond Community College 911 Communications and Operations Associates Degree Update. Mr. Moore recused himself from the discussion and vote for agenda item 7c, Education Committee Report, Recruitment Campaign Public Service Announcement/FY2023 Budget Amendment.

3. **Public Comment** – Chairman Weaver read the invitation for public comment as published in the agenda. He noted there will be an additional public comment before the vote for agenda item 6a, Executive Committee Report, Proposed Changes to Legislation. No public comment was indicated.

4. **Consent Agenda** – Chairman Weaver asked Ms. Harris to proceed with the consent agenda.

a) Minutes of Previous Meeting – September 30, 2022

b) NG 911 Reserve Fund

September 2022 Fund Balance	\$ 78,439,430
September 2022 Disbursement	\$ 2,441,011
October 2022 Fund Balance	\$ 80,760,233
October 2022 Disbursement	\$ 84,880

c) CMRS Account

September 2022 Account Balance	\$ 2,369,964
September 2022 Disbursement	\$ 144,885
October 2022 Account Balance	\$ 2,372,521
October 2022 Disbursement	\$ 0.00

d) PSAP Account

September 2022 Account Balance	\$ 3,431,398
September 2022 Disbursement	\$ 2,769,152
October 2022 Account Balance	\$ 5,023,175
October 2022 Disbursement	\$ 2,937,974

e) PSAP Grant/Statewide Projects Account

September 2022 Account Balance	\$ 44,417,771
Grant Funds Committed	\$ 20,996,041
October 2022 Account Balance	\$ 37,101,562
Grant Funds Committed	\$ 27,299,008

f) Grant Project Updates per Reports

With there being no further discussion about the consent agenda, 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) Biennial Audit – Ms. Harris noted Ms. Tapler is preparing for the biennial audit for fiscal years 2021 and 2022 with NC DIT Finance. She has had unofficial correspondence with the State Auditor’s Office. Ms. Tapler has begun gathering information and anticipates having the audit complete and presenting at the July or August Board meeting.

b) NextGen 911 Migration Status – [Live Status Map](#) – Ms. Harris congratulated the following on the recent migration to the ESInet with one PSAP left.

- i. Northampton County 911 (11/09/2022) – Migrated as i3. Hosted Vesta. PSAP #126/physical location #192 (including backups).
- ii. Recognition of Statewide ESInet Partners To-Date – Ms. Harris recognized the 20 PSAP locations that are partners on the ESInet but are not under the purview of the NC 911 Board.

c) NextGen 911 GIS Status Map – Mr. McLamb went over the GIS Status Upload map displayed during the meeting and available on the website. He was happy to report the number of PSAPs that have recently uploaded GIS data for call routing is the highest seen thus far. Mr. McLamb and the Regional Coordinators are doing monthly outreach to make sure PSAP Managers and GIS Managers know when updates were last performed by the jurisdictions. Mr. McLamb advised the orthoimagery was collected in February 2022 and is scheduled to be delivered in December 2022. The 2023 project will begin in February 2023 for the Southwestern part of the State and is scheduled for delivery in December 2023. Ms. Harris thanked the State GIS Office for the unique partnership with the NC 911 Board for GIS work for NG911.

- d) Wilson County 911 – Telecommunicator Week Cupcakes with Mr. Shipp and Ms. Gardner – Wilson County won cupcakes for the 2022 Telecommunicator Week picture contest. Mr. Shipp and Ms. Gardner delivered the cupcakes to Wilson County.
- e) Richmond Community College 911 Communications and Operations Associates Degree Update – The degree has been officially approved by the NC Community College Systems. Ms. Turbeville completed the curriculum at the end of November 2022, with assistance from Ms. Wright, Ms. Conner, and Ms. Reeder. Ms. Harris thanked them for the hard work creating the curriculum. The first class is scheduled to begin in October 2023.
- f) Cybersecurity Remediation Initiatives Update – Regional cybersecurity tabletop exercises (TTXs) are scheduled for May 2023. A planning meeting will be held in the middle of December with the Cybersecurity & Infrastructure Security Agency (CISA), National Guard, NC Emergency Management, and Board staff. The TTX invitations will be extended to PSAP Managers, County Managers, IT Managers, GIS Managers, Sheriffs, Chief of Police, or whomever the PSAP has charged with leading the cybersecurity efforts in the jurisdiction. CISA is responsible for the cost associated with the facilitators. The Board will be responsible for costs associated with the locations, lodging, and food for the TTX meetings. In addition, staff is planning a cybersecurity plan workshop for the PSAP community to learn how to draft a cybersecurity plan that can stand alone or complement a local cybersecurity plan. Multi-factor Authentication (MFA) is another top priority of the Board, and a survey has been sent out to the PSAPs to gauge interest in Board support for establishing an MFA process.
- g) New 911 Board Member Orientation – Wednesday, January 18, 2023 – This meeting is for the three new Board members and is available to existing Board members if they would like to attend. More information will be forthcoming.
- h) Creation of PSAP Assessment Coordinator Position – The position has been approved and hopefully will be advertised mid-December.
- i) GICC Outreach Meetings – CGIA has been performing GIS outreach meetings across the State and invited Board staff to participate to share about NG911 mapping datasets. Staff has attended the three that have already been held and will be attending the final meeting of the series on December 9, which will be held in Kernersville.
- j) NC 988 Planning Coalition/National Suicide Prevention Lifeline – Ms. Harris remains engaged with the 988 Planning Coalition in NC bringing information about the role of PSAPs for those individuals calling 988 for help. At the 2023 quarterly meetings, PSAP managers will be invited to present information about how calls for mental health are handled and the protocols in place.
- k) US Capitol Christmas Tree Harvest – Verizon Frontline Crisis Response Team – Ms. Harris acknowledged that NC provided the Christmas tree “Ruby” for the US Capitol. Mr. Struble provided communication and logistics with the Verizon Wireless Response Team during the tree harvest.
- l) Greene County ACEC NC Engineering Excellence Award – Greene County was the recipient of the ACEC NC Engineering Excellence Award for the purpose-built 911 center, which was part of the NC 911 Board Grant Program. Ms. Harris expressed her excitement for the County receiving this award.
- m) Legal Brief – Ms. Reeder began by asking all members to be mindful that all discussions of the Board and its committees must be conducted as public meetings in accordance with North Carolina’s Open Meetings Law (N.C.G.S. 143C, Article 33). Board members should not be sending “reply all” emails to discuss agenda items, as this could constitute an electronic meeting. Ms. Reeder advised members to reply only to the staff sending the email, copying the Executive Director. Ms. Reeder emphasized that nothing has triggered this reminder; it’s purely proactive, rather than reactive, as it came to her mind when the Committees were sending out the notices regarding discussions of goals.

Ms. Reeder noted that the Board would be hearing in the Executive Committee report about the proposed legislation. She noted also on the legislative agenda, but not presented for discussion at this meeting, is a resolution for the legislation to recognize telecommunicators as the “first” first responders in NC. That draft resolution is still being reviewed by Board staff, and it is anticipated that the resolution would come before the Board in January. Ms. Reeder stated if the Board does not meet in January, to keep up with the legislative schedule, it will go to the Executive Committee and be shared with the full Board at its next meeting.

Finally, Ms. Reeder addressed that NC records retention law and the Boards rules, such as 09 NCAC 06C .0215(a), require PSAPs to maintain and review call and dispatch statistics for 911 calls. To help PSAPs comply with these mandates, the Board has funded Statewide projects for the data analytics solution to collect that information. Previously, the vendor for the solution was

ECaTS. Last year, the Board selected a new vendor, RapidDeploy Eclipse Analytics, to provide these 911 statistics. With the transition to RapidDeploy complete, the Board wants to ensure that PSAPs meet the 911 records retention requirements in law and Code; therefore, the Board has negotiated an extension to the ECaTS contract to allow PSAPs to pull 911 call records through March 31, 2022. Ms. Reeder emphasized that after March 31, 2023, neither PSAPs nor NMAC staff will be able to access the data from ECaTS. She stated that formal notice of this deadline will be going to PSAPs in the coming weeks.

6. Executive Committee Report

- a) Proposed Changes to Legislation – §143B-1403, §143B-1405, §143B-1407 – Public Comment prior to vote. Mr. Shipp advised the Executive Committee met on Friday, October 21, 2022, and discussed amending G.S. §143B-1403, §143B-1405, §143B-1407, and §143B-1409 to sunset CMRS provider cost recovery, eliminating it entirely in two years. Currently, NC General Statute allows CMRS providers to seek cost recovery for the provision of enhanced 911 services of up to 125% of fees that CMRS providers remit to the fund.

For many years, the FCC and other states provided for this reimbursement. However, the FCC rescinded the reimbursement over 20 years ago and now almost no other states offer reimbursement to CMRS providers. The proposed changes to legislation will take effect over two fiscal years and is primarily reflected in the proposed amendments to G.S. 143B-1405. Effective the first fiscal year, beginning July 1, 2023, invoices for payments of CRMS provider's costs may not exceed the lesser of 100% of eligible costs or 100% of service charges remitted by the CMRS provider, which represents a reduction of the current 125% cap of service charges remitted to the fund. Effective for the second fiscal year, beginning July 1, 2024, the provision for any funds for cost recovery will be repealed. There are conforming changes to remove the reference to the cost recovery in G.S. 143B-1403, 143B-1407, and 143B-1409.

Secretary Weaver invited Mike Kennedy from Carolina West Wireless to speak during the public comment before the vote. Mr. Kennedy presented information about Carolina West Wireless, a locally based CMRS provider located in Wilkesboro. Mr. Kennedy advised given the local area challenges presented and to support the vital importance of providing reliable connectivity for communication and emergency calling, he asked for consideration for the Board to vote no for the proposed repeal of the 911 reimbursement for CMRS providers or at minimum to consider a waiver/exemption for small carriers with less than 250,000 customers.

The Executive Committee voted unanimously to recommend amending G.S. §143B-1403, §143B-1405, §143B-1407, and §143B-1409 to sunset CMRS cost recovery. This comes from the Committee in the form of a motion.

Mr. Bone commented on the history presented by Mr. Shipp and noted the CMRS fund was short-term funding for the initial build-out. He asked Ms. Reeder to describe the process of what would happen if the motion passed. Ms. Reeder advised she would work with the DIT legislative liaison to prepare an agency bill to be presented for deliberation at the legislature in the 2023 session. Mr. Bone clarified the effective date would be July 1, 2023, and asked when it would move to legislature. Ms. Reeder advised the first part would be effective July 1, 2023, because the legislature reconvenes in January 2023 and agency bills are presented early in the session. Mr. Bone clarified if the session doesn't move quickly the effective date could change. Ms. Reeder confirmed that was correct. Mr. Weaver included that if the motion passes, it would be a part of a legislative package going to the Governor's Office prior to going to the General Assembly. Normally, it takes 60-90 days for the legislation to be enacted once the legislature passes it and the Governor signs it. Mr. Moore asked if the CMRS providers have the right to lobby to have the legislature and the people speak for what they would like continued. Secretary Weaver and Ms. Reeder confirmed that was correct.

Mr. Greene, who represents AT&T as a LEC and CMRS provider, mentioned AT&T has supported this in other states and he would support this in his vote.

Mr. Ferguson thanked Mr. Kennedy for his presentation and the important role the smaller wireless providers have in the State. He noted his intention as a Board member to look specifically at the funding source and what it was provided for. He encouraged the providers to engage at the State level for infrastructure funds and the ways those funding sources can provide support.

Mr. Shipp thanked Mr. Kennedy for coming and noted the Executive Committee understands the issues in rural North Carolina. During Mr. Shipp's term on the Board, he has advocated about

creating efficiencies on the Board and cleaning up procedures and did vote in the affirmative. Mr. Weaver requested Mr. Kennedy to stay after the meeting to discuss any broadband funding that may be available.

After no further discussion, 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. Mr. O'Sullivan and Mr. Kerlin recused themselves from this vote.*

- b) General Committee Report – Mr. Shipp had nothing further to report other than the Executive Committee will continue to convene as it relates to legislative matters in the future.

7. Education Committee Report

- a) Buncombe County: RQI Telecommunicator CPR Program – Mr. Greene advised the Education Committee reviewed a training request from Buncombe County for the RQI Telecommunicator CPR Program. The Education Committee voted unanimously to recommend approval of the request, and this comes to the Board in the form of a motion. Ms. Wright shared that Ms. Turbeville worked with North Carolina Office of EMS (NCOEMS) and this training counts toward EMD certification and re-certification. With there being no further discussion about the 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) Haywood County: RAK Academy – Dispatch Response to Active Killers (D-RAK) – Mr. Greene advised the Education Committee reviewed Haywood County's training request for the RAK Academy Dispatch Response to Active Killers. The Education Committee voted unanimously to recommend approval of the request, and this comes to the Board in the form of a motion. After no further discussion on the 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) Recruitment Campaign Public Service Announcement/FY2023 Budget Amendment – Mr. Greene reminded the Board of the partnership to institute the pilot program with Spectrum Reach for the recruitment campaign that ran several months ago. The pilot program had a great outcome with a 68% increase in applications during the period it ran. He requested Spectrum Reach provide a proposal for a Statewide campaign. Mr. Greene thanked Ms. Turbeville and Ms. Reeder for the hard work on the campaign and during the procurement process. Mr. Greene introduced Ms. Cindy Morgan with Spectrum Reach to present the proposal for the Statewide recruitment campaign. Ms. Morgan presented the proposal and highlighted the differences between the previous six-week pilot to the proposed Statewide campaign consisting of twelve weeks with a pause after six weeks to research and adjust as needed.

The Education Committee voted unanimously to recommend approval of the expansion of the pilot Recruitment PSA Statewide Campaign presented by Spectrum Reach for a total cost of \$419,900 as a sole source procurement pursuant to NC General Statute 143B-1350 and Rule 09 NCAC 06B .0901, and to approve a necessary budget amendment of \$269,900 from the PSAP Grant and Statewide Projects Account. These interconnected recommendations come to the Board in the form of a single motion.

Mr. Shipp asked the Regional Coordinators and Ms. Jones to provide a comment on the need for this recruitment campaign. Ms. Jones stated she currently has nineteen vacancies at her 911 center. She advised the Statewide campaign is a critical need to highlight the positive impacts 911 has within public safety. Mr. Ferguson commented once the campaign concludes, the Board and staff decide whether to continue and challenged the Board on how to measure success and the benchmarks for the project. He is excited about the campaign and is already looking forward to updates on its progress. Ms. Harris advised the Education Committee has discussed the measure of success and benchmarks. The measurement of success is the increase of applications to a jurisdiction. Ms. Harris noted this takes a commitment from the PSAPs to partner with staff to provide the analytics.

Ms. Turbeville advised the Committee wanted to engage the PSAPs and it was recommended to have a webinar prior to the campaign starting. The webinar will include Ms. Morgan to present information, a guest speaker to provide recruitment ideas from across the country to assist PSAPs, and discuss the need for data analytics.

With there being no further discussion about 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 – Mr. Greene advised Ms. Harris provided an update on the Richmond Community College 911 Communications and Operations Associates Degree in her Executive Director's Report and the 2023 goals will be discussed in the Board's work session.

8. Funding Committee Report

- a) PSAP Estimated FY2024 Distribution – Mr. Bone advised the Board is required to provide the FY2024 PSAP Estimated Funding Distribution to the PSAPs for budgetary forecasting and preparations. The PSAP Final FY2024 Distribution will go before the Board in the spring and the PSAPs will be notified in May 2023. Mr. Bone requested Ms. Tapler review the FY2024 PSAP Estimated Funding Distribution.

Ms. Tapler presented the proposed PSAP Estimated FY2024 Distribution in the amount of \$31,016,571.03, explaining the data presented in the spreadsheet and how the estimated funding distributions were calculated for FY2024. Ms. Tapler brought attention to PSAPs being funded zero dollars due to the reduction above the maximum allowable carryforward. The large reductions are due to the removal of phone costs (cost shifts) and the PSAPs are not spending the revenue received during the fiscal year.

Mr. Bone advised the Funding Committee voted unanimously to approve the staff recommendation on the FY2024 PSAP Estimated Funding Distribution in the amount of \$31,016,571.03 and this comes to the Board in the form of a motion. With there being no further discussion about the 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) General Committee Report – Mr. Bone advised there were no further matters for the Funding Committee to report.

9. **Finance Team Report** – Ms. Tapler advised she is working on the financial notes for the upcoming audit. She has reached out to the State Auditor's Office to receive a timeline for the upcoming audit. She has finished the FY2021 and FY2022 financial statements for the Board and they have been submitted to the State Auditor's Office. Ms. Tapler provided an overview of the process for the audit. Ms. Tapler has been working on the FY2024 PSAP Estimated Funding Distribution, cost shifts, attended various meetings, and assisted the financial review specialist with requests.

Ms. Falco has been attending PAT meetings, and working on revenue expenditure reports, eligibility requests, and logistics for the Board meeting.

Ms. Templeton gave an update on the status of PSAP revenue expenditure reports as of December 1, 2022. For FY2020 and FY2021, all reports are up-to-date and finalized. For FY2022, the reports are 30% finalized. Ms. Templeton advised she will be working with the PSAPs to finalize FY2022 reports prior to the Board voting on the FY2024 Final PSAP Distribution in April 2023. Ms. Harris thanked the finance team for the hard work to get reports caught up. Ms. Jones thanked the finance team for the hard work and looks forward to the audit being performed in a good timeframe. Mr. Weaver concurred with Ms. Jones. Ms. Harris advised since we are caught up on reports, the Board will have a better opportunity for trending and forecasting regarding spend plans.

10. Grant Committee Report

- a) PSAP Grant Program Progress Reports – The following grant recipients presented brief updates on the progress of their projects.

- Greene County 911 – Mr. Brock Kearney advised the project has been completed and they are prepared to close the grant out. He thanked the Board for the grant award.
- Cumberland County 911 – Mr. Gene Booth thanked the Board for the grant award. He advised the project is 98% complete and the cutover from the old center to the new center is scheduled for December 14. The estimated project completion date is January 2023.
- Chatham County 911 – Mr. Mike Reitz thanked the Board for the grant award. He advised all of Chatham County public safety has been brought onto the Viper radio system. The project will be closed out in December 2022.
- Bladen County 911 – Mr. Chris Ivey advised Bladen County transitioned to Southern Software CAD in June 2022 and thanked the Board for the grant award.
- Clay County 911 – Mr. Kevin Sellers along with County Manager Debbie Mauney advised the building design has been completed by the architect and the bid process will begin in

December 2022. She added that the biggest project challenges have been inflation and material costs.

- Sampson County 911 – Mr. Cliff Brown thanked the Board for the grant award. The design for the new 911 facility is complete and construction is nearing completion. The UPS and generator installation are in the process of being completed, which will complete the facility. An extension has been requested and the agreement has been amended to reflect that extension of time to complete the project.
 - Burke County 911 – Ms. Heather Joyner, the recently hired Director for Burke County in November 2022, explained a meeting is scheduled for December 8 with County and Motorola stakeholders to discuss the project. The CAD is not meeting the needs of Burke County and negotiations are being held with Motorola for a resolution.
 - Union County 911 – Ms. Vicki Callicutt advised staff moved into the new facility on November 1. The outstanding features of the grant project include a radio tower with a goal of project completion in October 2023.
 - Wilson County 911 – Mr. Jeff Williford advised the tower generator replacement has been installed and tested. The project was completed by the deadline and the timeline was met. He thanked the Board for the grant award.
 - Alleghany County 911 – Mr. Daniel Roten advised the construction on the PSAP renovation project is complete. He is waiting on one final piece of equipment for the radio tower; however, it is up and functional. Mr. Roten hopes it will be complete by the end of December 2022.
 - Pasquotank County 911 – Ms. Ruth Barefoot, Assistant Director, thanked the Board for the grant award. The radio upgrade grant project is complete, and the grant was closed out in September 2022.
 - Robeson County 911 – Mr. Chad Deese advised the radio consoles at the backup PSAP are operational. He is waiting on some remaining Motorola equipment and the license for the AIS.
- b) General Committee Report – Ms. Harris advised the 2023A grant cycle agreements have been provided to the grantees. Board staff is waiting on a few signed agreements to be returned. The 2023B and 2023 P1 applications closed on December 1, with 12 applicants for the 2023B grant cycle and no applicants for the Priority One grant cycle. The Grant Committee will review the grant applications in January 2023. Board staff is working on streamlining the grant process by creating more in-depth checklists. Mr. Shipp thanked the Committee for the hard work.

Meeting Break from 10:51 to 11:00

11. Standards Committee Report

- a) Announce PSAP Assessment Vendor Selection – Ms. Wright thanked Ms. Conner and staff for the hard work handling the assessments and meeting preparation. She announced that the vendor selected to perform the PSAP Assessments is Mission Critical Partners. A kickoff meeting has been held and the training meetings are scheduled.
- b) Rules and PSAP Review Subcommittee Documents: PSAP Assessment Document, PSAP Corrective Action Plan, and PSAP Assessment Report – Ms. Wright asked Ms. Conner to discuss the proposed documents. Ms. Conner presented the updates and the revisions to the PSAP Assessment documents to account for the ESInet and the tracking of EMD training. All the questions align with the Administrative Code. The PSAP Site Assessment report will be left with the PSAP to denote any deficiencies identified. The third document is the PSAP Corrective Action Plan which explains how the deficiencies will be corrected.

Ms. Wright advised the Standards Committee voted unanimously to recommend approval of these documents for use during the upcoming PSAP assessments that will be conducted by Mission Critical Partners (MCP) and Board staff. The recommendation comes to the Board in the form of a single motion from the Standards Committee to approve all the documents presented. With there being no further discussion about the 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) General Committee Report – Ms. Wright provided an update advising the PSAP Classification subcommittee will meet to decide the best way to approach classifying PSAPs.

***Chief Ledford left the meeting at 11:11 AM.*

12. Technology Committee Report

- a) NG911 Project Overview/Status – Mr. Rogers advised there has been one migration since the September Board meeting, as Northampton County migrated on November 9. There are 126 PSAPs operational on the ESInet with one site outstanding. Current migration demographics include 55 hosted Vesta, 49 hosted Viper, and 22 ESInet-Only. The total population served by NG911 is 10,566,375 covering 99% of the State’s population. The total land mass covered by NG911 is 48,619.57 square miles, which is 99% of the State. There are 21 sites active on RFAI and 106 as i3. All PSAPs are i3 compliant and the GIS data is in maintenance mode and the focus is to keep all data current within thirty days. Mr. Rogers has been attending GICC meetings to promote GIS.

RapidDeploy is live and operational since October 31. Staff and RapidDeploy have been working with PSAPs to address any issues and enhancements with reporting. Mr. Rogers provided a reminder that ECaTS is available until March 31, 2023, so PSAPs need to pull data prior to that date. The NMAC will lose access on the same date and will be unable to assist PSAPs with accessing data from ECaTS after that time.

Mr. Rogers provided a SIP administrative calls (SIP Admin) project update, noting three PSAPs are complete and two more expected to be completed in mid-January 2023. Once the five PSAPs are complete the white paper and proof of concept is expected in early 2023.

- b) NMAC General Report – Mr. Dotson advised he is working with Mr. Rogers, Mr. Blumer, and the design teams of Smith Sinnett on the floor plan for the administrative and NMAC office space. The design is expected to be finalized in the next thirty days. For October 2022, the ticket count is 152 and for November 2022 the ticket count is 194. The year-to-date ticket count for 2022 is 2,224 and for comparison the year-to-date for 2021 was 1,899.
- c) AT&T/Intrado Executive Leadership Report – Mr. Briggs provided an update from AT&T on the OSP migrations are up to 121 and Verizon is continuing in December 2022. He advised completion is expected by January 2023. He added that the SIP Admin project update for Carteret and Durham will be complete in January 2023 and not by the end of the year because of network schedules. Ms. Harris advised there will be information forthcoming on the SIP Admin project for PSAPs to discuss the changes to the offering. Mr. Briggs reminded the Board that Richmond, Union, and Perquimans are inbound and outbound without issues. There are 45 PSAPs with interest in the SIP Admin project.
- Ms. Harris advised the Intrado Executive Leadership would not present to the Board due to the current issue involving the CDR report with RapidDeploy.
- d) General Committee Report – Mr. Shipp thanked the Committee members and noted it has been a pleasure working with them. Ms. Harris noted North Carolina is an innovator for NG911 along with the GIS component, the NMAC being the only one in the Country, the relationship with AT&T, the hosted call handling solution, and the RapidDeploy data analytics. Ms. Harris thanked Mr. Shipp for his involvement in all of the accomplishments of the Board.

13. **911 Regional Coordinator Reports** – Ms. Gardner visited Northampton for the ESInet migration and Wilson County to deliver cupcakes. She has had several discussions with PSAPs about CAD-to-CAD and the FY2023B grant cycle. She has also worked with PSAPs about uploading GIS data and, high/low fund balance, PSAPs with meetings scheduled in early 2023.

Ms. Conner has assisted PSAPs with questions and concerns. She has worked on the Rules and PSAP Review subcommittee, associated documents, scheduling meetings with MCP, working on the PSAP Assessment Coordinator job description, creating course content for the Richmond Community College associates degree, and scheduling orthoimagery delivery.

Ms. Turbeville has been creating a curriculum for the associate degree program. She thanked Ms. Wright, Ms. Reeder, and Ms. Conner for helping create the curriculum.

Mr. Newberry attended the NC APCO/NENA meeting in November, and attended FirstNet five-year review meeting. Mr. Newberry added that Cleveland County has a newly approved backup plan and is partnering with Lincoln County’s primary PSAP, which is operational and tested. Lincoln County is working on another primary PSAP to utilize their backup and will provide more information as the proposal progresses.

14. **Other General Board Business** – Ms. Harris had no further Board business to discuss. Mr. Shipp requested confirmation Finance Directors are included in the conversations regarding the high/low fund

balance. Ms. Harris and the Regional Coordinators confirmed the PSAPs, and PSAPs Finance Directors are involved in the spend plan conversation along with other local government staff for discussion.

15. NC 911 Board 2022 Work Session for Calendar Year 2023

- a) 2022 Board Goal Review – Ms. Harris reviewed the 2022 Board goals, sharing accomplishments and successes, drawing a parallel of goal progression with that of the 2021 State 911 Plan.

NC 911 Board 2022 Goals As Proposed by Committee per Initiative	
Education Committee	
Continue the information-sharing program to effectively communicate the Board and Staff's vision, initiatives, and responsibilities for NG911 and other state projects.	
Explore the feasibility of creating a voluntary Telecommunicator training certificate and/or certification in collaboration with the Community College system.	
Expand the Recruitment Public Service Announcement initiative based on data collected during the pilot program.	
Explore additional methods for public outreach utilizing non-traditional media outlets.	
Funding Committee	
Review the Approve Use of Funds List and vet expenditures to establish maximum allowable limits, where appropriate, while aligning with legislation.	
In an effort to create efficiencies with regional or tertiary collaboration, conduct a study to review costs and utilization of backup PSAPs, thereby leveraging the ESInet, radios, CAD, and other key technological elements.	
Continue reviewing the funding model, taking into consideration the ongoing implementation of new and emerging 911 Technologies.	
In partnership with other Board Committees, create an adhoc group to explore new technologies/initiatives and how they may be funded. <i>**Not intended as eligibility approval process.**</i>	
Staff Goal: Explore strategies and develop procedures, implement, and provide PSAP outreach to assist with management of low/high PSAP fund balance using the financial planning tool.	
Standards Committee	
Review and update language of the policies relating to Peer Review to ensure consistent scheduling and review of the PSAPs while considering options to accomplish them during the pandemic.	
Hold joint meetings, twice annually at minimum, to review technological or operational changes that may need to be addressed in Standards or Peer Review.	
Continue to explore the feasibility of establishing PSAP levels based on operational and technical capabilities.	
Technology Committee	
Develop CAD data sharing technical standards and schemas to enable CAD data portability and interconnection across the NC NG911 service platform.	
Develop CAD data sharing access control, auditing, and reporting framework to ensure data security across the PSAP and public safety communities.	
Develop plan for integration methodologies and standards for extension of calls to non-traditional PSAP environments to ensure the integrity of the ESInet, to ensure integrity, security and regulatory standards and align with the State 911 Plan and the Statewide Communications Interoperability Plan (SCIP).	
Address technical and governance structure concerning admin lines to enable the eventual migration to SIP based on admin lines for re-establishing contact with a 911 caller.	
Consider framework for cyber-security policy based on recommendations from the cyber-security assessment completed in June 2021 and collaboration with other cyber-security focused partners.	

- b) 2023 NC 911 Board Goals – Each Committee Chair presented the goals for 2023. The goals have been approved by the respective Committee and is being put forth as a recommendation to the Board collectively as the 2023 NC 911 Board Goals.

- i. 2023 Education Committee Proposed Goals Presentation by Mr. Greene.

Education Committee
Continue the information-sharing program to effectively communicate the Board and Staff's vision, initiatives, and responsibilities for NG911 and other state projects.
Continue to develop the Associate in Applied Science Telecommunicator Communications and Operations Degree program Richmond Community College and develop telecommunicator training courses or other opportunities in collaboration with the Community College system.
Expand the Recruitment Public Service Announcement initiative based on data collected during the pilot program.
Explore additional methods for public outreach utilizing non-traditional media outlets.

- ii. 2023 Funding Committee Proposed Goals Presentation by Mr. Bone.

Funding Committee
Continue reviewing the funding model (five-year rolling average) to ensure the technical and operational needs of the PSAPs are met consistent with legislation and Administrative Code.
Continue to develop strategies and procedures to implement and provide PSAP outreach to assist with management of low/high PSAP fund balances using the financial planning tool.
In partnership with other Board Committees, continue to explore emerging technologies/initiatives and how they may be funded. <i>**Not intended as eligibility approval process.**</i>
Explore available options for continued assessment of the cost and utilization benefits of backup PSAPs given the interoperability established by the Statewide ESInet.

- iii. 2023 Standards Committee Proposed Goals Presentation by Ms. Wright.

Standards Committee
Review technological or operational changes that may need to be addressed in Administrative Code and/or policy, collaborating with other committees as indicated.
Continue to explore the feasibility of establishing PSAP types based on demographics and service delivery to define small, medium, and large PSAPs in a manner similar to the methodology utilized by FEMA.
Monitor the progress of the PSAP assessments to ensure adherence to the state Administrative Code.

Board member discussion ensued for the importance of classifying or defining PSAPs as small, medium, or large. Ms. Wright provided an example of the size, capabilities, and service levels of PSAPs beyond the requirements in Administrative Code. This will customize support provided to the PSAPs for the unique needs.

- iv. 2023 Technology Committee Proposed Goals Presentation by Mr. Shipp.

Technology Committee
Address technical infrastructure and administration of Session Initiated Protocol (SIP) administrative call capabilities for a hosted PSAP for re-establishing contact with a 911 caller. This includes the completion of the SIP Admin Pilot Project and presentation of proof of concept.
Continuing cybersecurity remediation initiatives and ongoing collaboration with cybersecurity focused partners to assist PSAPs with establishing holistic cyber hygiene.
Explore and investigate industry best practices for 911 call data interoperability to support technical standards with the NextGen 911 ecosystem.
In partnership with other Board Committees explore emerging technologies/initiatives and how they may be funded. <i>**Not intended as eligibility approval process.**</i>

- c) 2023 Proposed Goals Discussion and Approval – There was a general discussion with the consensus that the goals chart the course for the Board for the upcoming year. Sheriff Hartman made a motion to approve the 2023 NC 911 Board goals. Mr. Ferguson seconded the motion. With no further discussion on the 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.*

NC 911 Board 2023 Goals As Proposed by Committee per Initiative
Education Committee
Continue the information-sharing program to effectively communicate the Board and Staff's vision, initiatives, and responsibilities for NG911 and other state projects.
Continue to develop the Associate in Applied Science Telecommunicator Communications and Operations Degree program Richmond Community College and develop telecommunicator training courses or other opportunities in collaboration with the Community College system.
Expand the Recruitment Public Service Announcement initiative based on data collected during the pilot program.
Explore additional methods for public outreach utilizing non-traditional media outlets.
Funding Committee
Continue reviewing the funding model (five-year rolling average) to ensure the technical and operational needs of the PSAPs are met consistent with legislation and Administrative Code.
Continue to develop strategies and procedures to implement and provide PSAP outreach to assist with management of low/high PSAP fund balances using the financial planning tool.
In partnership with other Board Committees, continue to explore emerging technologies/initiatives and how they may be funded. **Not intended as eligibility approval process.**
Explore available options for continued assessment of the cost and utilization benefits of backup PSAPs given the interoperability established by the Statewide ESnet.
Standards Committee
Review technological or operational changes that may need to be addressed in Administrative Code and/or policy, collaborating with other committees as indicated.
Continue to explore the feasibility of establishing PSAP types based on demographics and service delivery to define small, medium, and large PSAPs in a manner similar to the methodology utilized by
Monitor the progress of the PSAP assessments to ensure adherence to the state Administrative Code.
Technology Committee
Address technical infrastructure and administration of Session Initiated Protocol (SIP) administrative call capabilities for a hosted PSAP for re-establishing contact with a 911 caller. This includes the completion of the SIP Admin Pilot Project and presentation of proof of concept.
Continuing cybersecurity remediation initiatives and ongoing collaboration with cybersecurity focused partners to assist PSAPs with establishing holistic cyber hygiene.
Explore and investigate industry best practices for 911 call data interoperability to support technical standards with the NextGen 911 ecosystem.
In partnership with other Board Committees explore emerging technologies/initiatives and how they may be funded. **Not intended as eligibility approval process.**

- d) 2023 NC 911 Board Meeting Dates – Ms. Harris reviewed the 2023 meeting date tentative schedule noting there will be a mix of in-person and virtual meetings. Mr. Coltrain made a motion to approve the meeting dates as presented. The motion was seconded by Ms. Wright. Ms. Wright asked if dates could be sent on the PSAP Managers email listserv. Ms. Harris advised the schedule can be sent out once a month. Ms. Jones brought attention to the Funding Committee meeting times being switched with Education Committee. With no further discussion on the 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.*

Day	Month	Date	2023 NC 911 Board and Committees Meetings	Time	Location	Assigned Staff
Thursday	January	5	Standards Committee Meeting	10:00-12:00	TBD	Tina Gardner/Stephanie Conner
Thursday	January	12	Technology Committee Meeting	10:00-12:00	TBD	David Newberry
Thursday	January	19	Funding Committee Meeting	10:00-12:00	TBD	Kristen Falco/Sarah Templeton
Thursday	January	19	Education Committee Meeting	13:00-15:00	TBD	Angie Turbeville
Friday	January	27	911 Board Meeting		TBD	Pokey Harris
	February	-	Standards Committee Meeting - NO MEETING		N/A	Tina Gardner/Stephanie Conner
Thursday	February	9	Technology Committee Meeting	10:00-12:00	TBD	David Newberry
Thursday	February	16	Funding Committee Meeting	10:00-12:00	TBD	Kristen Falco/Sarah Templeton
Thursday	February	16	Education Committee Meeting	13:00-15:00	TBD	Angie Turbeville
Friday	February	24	911 Board Meeting		TBD	Pokey Harris
Thursday	March	2	Standards Committee Meeting	10:00-12:00	TBD	Tina Gardner/Stephanie Conner
Thursday	March	9	Technology Committee Meeting	10:00-12:00	TBD	David Newberry
Thursday	March	16	Funding Committee Meeting	10:00-12:00	TBD	Kristen Falco/Sarah Templeton
Thursday	March	16	Education Committee Meeting	13:00-15:00	TBD	Angie Turbeville
Friday	March	24	911 Board Meeting		TBD	Pokey Harris
	April	-	Standards Committee Meeting - NO MEETING		N/A	Tina Gardner/Stephanie Conner
Thursday	April	13	Technology Committee Meeting	10:00-12:00	TBD	David Newberry
Thursday	April	20	Funding Committee Meeting	10:00-12:00	TBD	Kristen Falco/Sarah Templeton
Thursday	April	20	Education Committee Meeting	13:00-15:00	TBD	Angie Turbeville
Friday	April	28	911 Board Meeting		TBD	Pokey Harris
Thursday	May	4	Standards Committee Meeting	10:00-12:00	TBD	Tina Gardner/Stephanie Conner
	May	-	Technology Committee Meeting - NO MEETING		N/A	David Newberry
Thursday	May	11	Funding Committee Meeting	10:00-12:00	TBD	Kristen Falco/Sarah Templeton
Thursday	May	11	Education Committee Meeting	13:00-15:00	TBD	Angie Turbeville
Friday	May	19	911 Board Meeting		TBD	Pokey Harris
	June	-	Standards Committee Meeting - NO MEETING		N/A	Tina Gardner/Stephanie Conner
Thursday	June	8	Technology Committee Meeting	10:00-12:00	TBD	David Newberry
Thursday	June	15	Funding Committee Meeting	10:00-12:00	TBD	Kristen Falco/Sarah Templeton
Thursday	June	15	Education Committee Meeting	13:00-15:00	TBD	Angie Turbeville
Friday	June	23	911 Board Meeting		TBD	Pokey Harris
Thursday	July	6	Standards Committee Meeting	10:00-12:00	TBD	Tina Gardner/Stephanie Conner
Thursday	July	13	Technology Committee Meeting	10:00-12:00	TBD	David Newberry
Thursday	July	20	Funding Committee Meeting	10:00-12:00	TBD	Kristen Falco/Sarah Templeton
Thursday	July	20	Education Committee Meeting	13:00-15:00	TBD	Angie Turbeville
Friday	July	28	911 Board Meeting		TBD	Pokey Harris
	August	-	Standards Committee Meeting - NO MEETING		N/A	Tina Gardner/Stephanie Conner
Thursday	August	10	Technology Committee Meeting	10:00-12:00	TBD	David Newberry
Thursday	August	17	Funding Committee Meeting	10:00-12:00	TBD	Kristen Falco/Sarah Templeton
Thursday	August	17	Education Committee Meeting	13:00-15:00	TBD	Angie Turbeville
Friday	August	25	911 Board Meeting		TBD	Pokey Harris
Thursday	September	7	Standards Committee Meeting	10:00-12:00	TBD	Tina Gardner/Stephanie Conner
Thursday	September	14	Technology Committee Meeting	10:00-12:00	TBD	David Newberry
Thursday	September	21	Funding Committee Meeting	10:00-12:00	TBD	Kristen Falco/Sarah Templeton
Thursday	September	21	Education Committee Meeting	13:00-15:00	TBD	Angie Turbeville
Friday	September	29	911 Board Meeting		TBD	Pokey Harris
	October	-	Standards Committee Meeting - NO MEETING		N/A	Tina Gardner/Stephanie Conner
Thursday	October	12	Technology Committee Meeting	10:00-12:00	TBD	David Newberry
Thursday	October	19	Funding Committee Meeting	10:00-12:00	TBD	Kristen Falco/Sarah Templeton
Thursday	October	19	Education Committee Meeting	13:00-15:00	TBD	Angie Turbeville
Friday	October	27	911 Board Meeting		TBD	Pokey Harris
Thursday	November	2	Standards Committee Meeting	10:00-12:00	TBD	Tina Gardner/Stephanie Conner
Thursday	November	9	Technology Committee Meeting	10:00-12:00	TBD	David Newberry
Thursday	November	16	Funding Committee Meeting	10:00-12:00	TBD	Kristen Falco/Sarah Templeton
Thursday	November	16	Education Committee Meeting	13:00-15:00	TBD	Angie Turbeville
Friday			*No 911 Board Meeting This Month*			
Friday	December	1	911 Board Meeting/Work Session		TBD	Pokey Harris

e) 2024 NC 911 PSAP Grant Program –

- i. 2024 NC 911 Grant Program Priorities – Mr. Shipp presented the 2024 NC 911 Grant Program Priorities. Mr. Bone asked for further discussion on CAD Data Interoperability. Mr. Shipp and Ms. Harris provided further information on priority two. Ms. Wright made a motion to approve the 2024 NC 911 Grant Program Priorities. Ms. Jones seconded the motion. With no further discussion on the 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.*

FY2024 PROPOSED Grant Program Priorities

- 1 – Regional Initiative with Focus on Primary PSAP Consolidations (Two or more PSAPs consolidate into one entity.)
- 2 – 911 Call Data Interoperability – CAD Data Sharing, CAD-to-CAD, or Multiple PSAP Shared/Hosted CAD
- 3 – End of Life Equipment Replacement – Radio, CAD and/or Recorder Only
- 4 – PSAP Cybersecurity Initiatives
- 5 – Other

- ii. 2024 NC 911 Grant Program Cycle Draft/Tentative Timeline – Mr. Shipp presented the grant program timeline. Ms. Wright made a motion to approve the 2024 Grant Program Cycle Draft/Tentative Timeline. Mr. Foster seconded the motion. With no further discussion on the 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.*

***TENTATIVE FY2024 Grant Cycle Calendar					
Milestone	Date	Day of Week	Days to Next Date	Day of Week	
Grant Workshop for PSAPs	3/23/23	Thursday	7	5	Meeting Date for Grant Committee, Staff, and Potential Applicants
Beginning of Grant Cycle - Application Posted to Website	3/30/23	Thursday	62	5	Informational Date
Grant Abstract Submission Deadline	4/13/23	Thursday			Informational Date
Grant Abstract Response Deadline	4/20/23	Thursday			Informational Date - Regional Coordinators
Eligibility Submission Deadline	5/1/23	Monday		2	Informational Date
Revenue Expenditure Report Finalized Deadline	5/15/23	Monday		2	Informational Date
Grant Applications Due	5/31/23	Wednesday	27	4	Informational Date
Grant Committee Discussion	6/27/23	Tuesday	6	3	Meeting Date for Grant Committee and Staff
Grant Process Elimination Notification	7/3/23	Monday	6	2	Informational Date
Grant Presentation Notification	7/3/23	Monday	16	2	Informational Date
Grant Applications Presentation Day 1	7/19/23	Wednesday	6	4	Meeting Date for Grant Committee, Staff, and Applicants
Grant Applications Presentation Day 2 (Potential Hold - Need TBD)	7/25/23	Tuesday	7	3	Meeting Date for Grant Committee, Staff, and Applicants
Grant Committee Meeting - Review and Vote	8/1/23	Tuesday	10	3	Meeting Date for Grant Committee and Staff
Grant Committee Results to Board for Review prior to Board Meeting	8/11/23	Friday	14	6	Informational Date
Board Meeting - Vote on Grant Committee Recommendation	8/25/23	Friday	14	6	Meeting Date for Board
Board Result Notification by Email Letter	9/8/23	Friday	7	6	Informational Date
Grant Acceptance Acknowledgement Due from PSAP	9/15/23	Friday	49	6	Informational Date
Grant Agreement to Applicants	11/3/23	Friday	63	6	Informational Date
Final Date for all PSAP Agreements to be Executed (Per Individual Agreement Date Based on Return of Acknowledgement)	1/5/24	Friday		6	Informational Date
Key Timeframes					
	Calendar Days				
Days from Workshop to Applications Due	69				
Days from Beginning of Grant Cycle to Applications Due	62				
Days from Applications Due to Presentation Day 1 (Grant Comm/Staff Prep Time)	49				
Days from Presentation Day 2 to Grant Committee Review and Vote	7				
Days from Grant Committee Meeting to Recommendation to Board	10				
Days for Board to Pre-Review Recommendation Prior to Vote	14				
Days to Award Notifications and Grant Agreements to PSAPs	56				
Days to Receive Acceptance Acknowledgement from PSAPs	7				
Days for PSAPs to Execute Grant Agreement	63				

- f) Introduction of Oncoming Board Members – Ms. Harris introduced Sheriff Phil Howell representing the NC Sheriff's Association, Thad Southers representing NC Licensed CMRS Provider, and Kyle Randleman representing NC Licensed LEC Provider less than 200,000 access lines.
- g) Announcement of Committee Assignments – Mr. Weaver announced the new Committee assignments and noted Ms. Harris has spoken with each individual and they have accepted the assignment. Mr. Coltraine will serve as chair of the Grant Committee filling the vacancy left by Mr. Shipp, who is rotating off the Board, and Mr. Coltraine is currently a Grant Committee member. Mr. Ferguson will serve as the chair of the Technology Committee filling the vacancy left by Mr. Shipp who is rotating off the Board and Mr. Ferguson is currently a Technology Committee member. Sheriff Howell will serve on the Education Committee filling the vacancy left by Sheriff Hartman, who is rotating off the Board. Chief Ledford will serve on the Technology Committee filling the vacancy left by Mr. O'Sullivan, who is rotating off the Board. Mr. Moore will serve on the Grant Committee, filling the vacancy left by Mr. Shipp. Mr. Randleman will serve on the Technology Committee filling the vacancy left by Mr. Shipp. Mr. Southers will serve on the Standards Committee filling the vacancy left by Mr. Coltraine, who is stepping down from the Committee to focus on the Grant Committee Chair duties.
- h) Consideration for Nomination of Board Vice Chair – Ms. Harris noted a nomination has been brought forward for Mr. Ferguson and he accepted the nomination. Ms. Harris stated that if the Board received another nomination, the Board will vote by ballot at the next meeting anticipated in February.
- i) Other Board Work Session Matters for Discussion – Ms. Wright humorously noted Mr. Shipp's ship has sailed in reference to retirement,

16. Recognition of Outgoing Board Members

- Sheriff JD Hartman – Ms. Harris presented Sheriff Hartman with a plaque recognizing his dedication and service to the NC 911 Board, having served the Board from January 2019 to December 2022. She thanked him for his leadership, and service on the NC 911 Board and Education Committee.

- Jude O’Sullivan - Ms. Harris presented Mr. O’Sullivan with a plaque recognizing his dedication and service to the NC 911 Board, having served the Board from January 2019 to December 2022. She thanked him for his leadership and service on the NC 911 Board and Technology Committee.
- Jeff Shipp - Ms. Harris presented Mr. Shipp with a plaque recognizing his dedication and service to the NC 911 Board, having served the Board from February 2014 to December 2022. She thanked him for his leadership, dedication, and service to the NC 911 Board, including serving as Technology Committee Chair from 2015 to 2022, Grant Committee member since 2015 and Chair from 2019 to 2022, and various ad hoc and working groups as assigned through the years. She thanked Mr. Shipp and noted her appreciation for him advocating, innovating, and supporting for 911 in North Carolina and across the Country, along with his friendship. Mr. Weaver thanked Mr. Shipp for his service to the 911 Board.

Roster of Roll Call Votes:

NORTH CAROLINA 911 BOARD MEETING											
Roll Call Votes											
Friday, December 2, 2022											
Lumberton, NC and Via Simultaneous Communication with Microsoft Teams Meeting											
NC 911 Board Members	4. Consent Agenda	6. a) Executive Committee Proposed Changes to Legislation	7. a) Buncombe County: RQI Telecommunicator CPR Program	7. b) Haywood County: RAK Academy - Dispatch Response to Active Killers (D-RAK)	7. c) Recruitment Campaign Public Service Announcement / FY2023 Budget Amendment	8. a) PSAP Estimated FY2024 Distribution	11. b) Rules and PSAP Review Subcommittee Documents	15. b v) 2023 Proposed Committee Goals	15. c) 2023 NC 911 Board Meeting Dates	15. d i) 2024 NC 911 Grant Program Priorities	15. d ii) 2024 NC 911 Grant Program Cycle Draft/Tentative Timeline
David Bone, Executive Director, Eastern Carolina Council (North Carolina Association of County Commissioners)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Tommy Cole, Fire Chief, City of Graham (NCSFA)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Greg Coltrain, VP Business Development, Wilkes Communication/River Street (LEC)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Brian Drew, Manager of Customer Design and Implementation, CenturyLink/Lumen (LEC)	Excused	Excused	Excused	Excused	Excused	Excused	Excused	Excused	Excused	Excused	Excused
Bo Ferguson, Deputy City Manager, City of Durham (NCLM)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Greg Foster, Director of Communications, Alexander County (NC Association of Rescue EMS)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Chuck Greene, Director of Government Affairs, AT&T (LEC)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
J.D. Hartman, Sheriff, Davie County (NC Sheriffs Association)	Y	Y	Y	Y	Y	NP	Y	Y	Y	Y	Y
Melanie Jones, Director, Guilford-Metro 911 (APCO)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Lee Kerlin, RF Engineer, TMobile Sprint (CMRS)	Y	Recused	Y	Y	Y	Y	Y	Y	Y	Y	Y
Jeff Ledford, Chief, City of Shelby Police Department (NCACP)	Y	Y	Y	Y	Y	Y	Y	Excused	Excused	Excused	Excused
John Moore, Regional Manager, Government and Education Sales, Spectrum Communications (VoIP)	Y	Y	Y	Y	Recused	Y	Y	Y	Y	Y	Y
Jude O’Sullivan, Chief Customer Officer, Carolina West (CMRS)	Y	Recused	Y	Y	Y	Y	Y	Y	Y	Y	Y
Jeff Shipp, Vice President of Operations (Ret.), Star Telephone (LEC)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Earl Struble, Sr. Manager Verizon Response, Verizon Wireless (CMRS)	Excused	Excused	Excused	Excused	Excused	Excused	Excused	Excused	Excused	Excused	Excused
Secretary Jim Weaver, 911 Board Chair (NC DIT)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Donna Wright, Director (Ret.), Richmond CO Emergency Services (NENA)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Adjourn – Chairman Weaver adjourned the meeting at 12:43 PM.

Next NC 911 Board Meeting – Per Approved Calendar



Tab 9 b – e)

b) NG 911 Reserve Fund

November 2022 Fund Balance	\$ 82,985,705
November 2022 Disbursement	\$ 487,054
December 2022 Fund Balance	\$ 80,360,854
December 2022 Disbursement	\$ 4,729,118
January 2023 Fund Balance	\$ 79,311,235
January 2023 Disbursement	\$ 4,338,509

c) CMRS Account

November 2022 Account Balance	\$ 2,120,382
November 2022 Disbursement	\$ 255,228
December 2022 Account Balance	\$ 2,327,028
December 2022 Disbursement	\$ 203,575
January 2023 Fund Balance	\$ 2,078,615
January 2023 Disbursement	\$ 252,552

d) PSAP Account

November 2022 Account Balance	\$ 7,178,278
November 2022 Disbursement	\$ 3,019,073
December 2022 Account Balance	\$ 7,939,591
December 2022 Disbursement	\$ 3,117,942
January 2023 Fund Balance	\$ 11,126,674
January 2023 Disbursement	\$ 2,961,663

e) PSAP Grant/Statewide Projects Account

November 2022 Account Balance	\$ 35,440,603
Grant Funds Committed	\$ 30,141,678
December 2022 Account Balance	\$ 34,738,724
Grant Funds Committed	\$ 30,577,147
January 2023 Account Balance	\$ 36,591,684
Grant Funds Committed	\$ 30,097,217

Next Generation 911 Reserve Fund

FY2023 beginning Fund Balance:	\$76,125,410.91				
	July 2022	August 2022	September 2022	October 2022	November 2022
Service Charge Receipts	\$1,949,712.24	\$2,545,335.55	\$2,565,372.67	\$2,321,050.02	\$2,617,362.16
Interest allocation	\$38,942.83	\$57,963.06	\$72,165.22	\$84,634.10	\$105,166.57
PSAP Grant/Statewide Project Allocation (In)					
NG 911 Reserve Fund Disbursement	-\$2,419,954.90	-\$54,507.37	-\$2,441,010.66	-\$84,880.25	-\$497,053.94
NG 911 Reserve Fund Balance	\$75,694,111.08	\$78,242,902.32	\$78,439,429.55	\$80,760,233.42	\$82,985,708.21

CMRS Account

FY2023 beginning Account Balance:	\$2,787,471.99				
	July 2022	August 2022	September 2022	October 2022	November 2022
CMRS Service Charge Receipts	\$106,860.38	\$0.00	\$0.00	\$0.00	\$0.00
Interest allocation	\$1,425.96	\$1,922.51	\$2,317.37	\$2,557.13	\$3,089.51
CMRS Allocation (out)					
CMRS Disbursement	-\$385,148.64	\$0.00	-\$144,885.28	\$0.00	-\$255,228.45
CMRS Account Balance	\$2,510,609.69	\$2,512,532.20	\$2,369,964.29	\$2,372,521.42	\$2,120,382.48

PSAP Account

FY2023 beginning Account Balance:	\$18,228,801.98				
	July 2022	August 2022	September 2022	October 2022	November 2022
Service Charge Receipts	\$3,380,749.25	\$3,062,478.62	\$3,122,376.85	\$2,715,827.44	\$3,492,072.92
Wireline Service Charge Receipts	\$389,227.04	\$344,240.91	\$340,531.18	\$343,437.57	\$324,685.59
VOIP Service Charge Receipts	\$870,695.26	\$907,265.54	\$751,968.38	\$708,557.55	\$762,971.32
Prepaid Wireless Service Charge Receipts	\$1,145,916.41	\$1,080,316.60	\$787,600.26	\$758,224.96	\$588,535.64
Interest allocation	\$9,325.15	\$15,700.85	\$21,170.13	\$3,702.39	\$6,541.21
Subtotal	\$5,795,913.11	\$5,410,002.52	\$5,023,646.80	\$4,529,749.91	\$5,174,806.68
PSAP Allocation (out)			-\$21,776,154.00		
PSAP Distributions	-\$3,520,937.37	-\$2,960,722.70	-\$2,769,152.18	-\$2,937,973.56	-\$3,019,703.27
PSAP Account Balance	\$20,503,777.72	\$22,953,057.54	\$3,431,398.16	\$5,023,174.51	\$7,178,277.92

OSC Certified
Cash Basis

PSAP Grant-Statewide 911 Projects Account

		Total Disbursed						Encumbered Amounts
		YTD	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	
			\$45,399,308.01	\$43,710,114.11	\$43,417,138.08	\$65,413,811.37	\$64,400,570.64	
LODGING - IN STATE – 532721	\$40,000.00							40,000.00
MEALS - IN STATE – 532724	\$10,000.00							10,000.00
WORKSHOP/CONF EXP-MISC 532199900	\$17,000.00							17,000.00
WORKSHOP/CONF-ROOM RENTAL – 532513900	\$10,000.00							10,000.00
SUPPLIES -533110	\$3,000.00							3,000.00
Ortho Project III Image 22 (089) (MGJ)	\$3,430,142.00	-1,676,610.98	-532,769.19	-7,662.98	-332,772.74	-94,038.98	-23,648.08	1,213,098.85
Ortho Project III Image 23 (100)	\$3,324,000.00	0.00						3,324,000.00
Approved Transfer-In				21,776,154.00				
Interest			23,224.54	33,471.19	40,044.62	70,579.80	83,862.90	
Revenue			886,232.82	897,134.18	855,124.22	773,683.34	872,454.05	
Total Ending Account								
Balance		\$ 45,399,308.01	\$43,710,114.11	\$43,417,138.08	\$65,413,811.37	\$64,400,570.64	\$65,315,871.30	

Cash Basis Reporting
 OSC - certified report

Committed: \$30,577,147.23
 Grant Account Balance \$34,738,724.07

Next Generation 911 Reserve Fund

FY2023 beginning Fund Balance:	\$76,125,410.91					
	July 2022	August 2022	September 2022	October 2022	November 2022	December 2022
Service Charge Receipts	\$1,949,712.24	\$2,545,335.55	\$2,565,372.67	\$2,321,050.02	\$2,617,362.16	\$1,984,077.94
Interest allocation	\$38,942.83	\$57,963.06	\$72,165.22	\$84,634.10	\$105,166.57	\$120,185.43
PSAP Grant/Statewide Project Allocation (In)						
NG 911 Reserve Fund Disbursement	-\$2,419,954.90	-\$54,507.37	-\$2,441,010.66	-\$84,880.25	-\$497,053.94	-\$4,729,117.55
NG 911 Reserve Fund Balance	\$75,694,111.08	\$78,242,902.32	\$78,439,429.55	\$80,760,233.42	\$82,985,708.21	\$80,360,854.03

CMRS Account

FY2023 beginning Account Balance:	\$2,787,471.99					
	July 2022	August 2022	September 2022	October 2022	November 2022	December 2022
CMRS Service Charge Receipts	\$106,860.38	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Interest allocation	\$1,425.96	\$1,922.51	\$2,317.37	\$2,557.13	\$3,089.51	\$3,070.88
CMRS Allocation (out)						
CMRS Disbursement	-\$385,148.64	\$0.00	-\$144,885.28	\$0.00	-\$255,228.45	\$203,574.86
CMRS Account Balance	\$2,510,609.69	\$2,512,532.20	\$2,369,964.29	\$2,372,521.42	\$2,120,382.48	\$2,327,028.22

PSAP Account

FY2023 beginning Account Balance:	\$18,228,801.98					
	July 2022	August 2022	September 2022	October 2022	November 2022	December 2022
Service Charge Receipts	\$3,380,749.25	\$3,062,478.62	\$3,122,376.85	\$2,715,827.44	\$3,492,072.92	\$2,084,300.52
Wireline Service Charge Receipts	\$389,227.04	\$344,240.91	\$340,531.18	\$343,437.57	\$324,685.59	\$321,362.26
VOIP Service Charge Receipts	\$870,695.26	\$907,265.54	\$751,968.38	\$708,557.55	\$762,971.32	\$707,017.24
Prepaid Wireless Service Charge Receipts	\$1,145,916.41	\$1,080,316.60	\$787,600.26	\$758,224.96	\$588,535.64	\$756,271.94
Interest allocation	\$9,325.15	\$15,700.85	\$21,170.13	\$3,702.39	\$6,541.21	\$10,302.78
Subtotal	\$5,795,913.11	\$5,410,002.52	\$5,023,646.80	\$4,529,749.91	\$5,174,806.68	\$3,879,254.74
PSAP Allocation (out)			-\$21,776,154.00			
PSAP Distributions	-\$3,520,937.37	-\$2,960,722.70	-\$2,769,152.18	-\$2,937,973.56	-\$3,019,703.27	-\$3,117,941.79
PSAP Account Balance	\$20,503,777.72	\$22,953,057.54	\$3,431,398.16	\$5,023,174.51	\$7,178,277.92	\$7,939,590.87

OSC Certified
Cash Basis

PSAP Grant-Statewide 911 Projects Account

		Total Disbursed							Encumbered Amounts
		YTD	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	
			\$45,399,308.01	\$43,710,114.11	\$43,417,138.08	\$65,413,811.37	\$64,400,570.64	\$65,315,871.30	
LODGING - IN STATE – 532721	\$40,000.00								40,000.00
MEALS - IN STATE – 532724	\$10,000.00								10,000.00
WORKSHOP/CONF EXP-MISC 532199900	\$17,000.00								17,000.00
WORKSHOP/CONF-ROOM RENTAL – 532513900	\$10,000.00								10,000.00
SUPPLIES -533110	\$3,000.00								3,000.00
Ortho Project III Image 22 (089) (MGJ)	\$3,430,142.00	-1,676,610.98	-532,769.19	-7,662.98	-332,772.74	-94,038.98	-23,648.08	-53,922.40	1,213,098.85
Ortho Project III Image 23 (100)	\$3,324,000.00	0.00							3,324,000.00
Approved Transfer-In				21,776,154.00					
Interest			23,224.54	33,471.19	40,044.62	70,579.80	83,862.90	94,594.80	
Revenue			886,232.82	897,134.18	855,124.22	773,683.34	872,454.05	661,359.32	
Total Ending Account									
Balance		\$ 45,399,308.01	\$43,710,114.11	\$43,417,138.08	\$65,413,811.37	\$64,400,570.64	\$65,315,871.30	\$65,582,280.67	

Cash Basis Reporting
 OSC - certified report

Committed: **\$30,141,677.59**
 Grant Account Balance **\$35,440,603.08**

Next Generation 911 Reserve Fund

FY2023 beginning Fund Balance:	\$76,125,410.91						
	July 2022	August 2022	September 2022	October 2022	November 2022	December 2022	January 2023
Service Charge Receipts	\$1,949,712.24	\$2,545,335.55	\$2,565,372.67	\$2,321,050.02	\$2,617,362.16	\$1,984,077.94	\$3,145,961.05
Interest allocation	\$38,942.83	\$57,963.06	\$72,165.22	\$84,634.10	\$105,166.57	\$120,185.43	\$142,929.80
PSAP Grant/Statewide Project Allocation (In)							
NG 911 Reserve Fund Disbursement	-\$2,419,954.90	-\$54,507.37	-\$2,441,010.66	-\$84,880.25	-\$497,053.94	-\$4,729,117.55	-\$4,338,509.39
NG 911 Reserve Fund Balance	\$75,694,111.08	\$78,242,902.32	\$78,439,429.55	\$80,760,233.42	\$82,985,708.21	\$80,360,854.03	\$79,311,235.49

CMRS Account

FY2023 beginning Account Balance:	\$2,787,471.99						
	July 2022	August 2022	September 2022	October 2022	November 2022	December 2022	January 2023
CMRS Service Charge Receipts	\$106,860.38	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Interest allocation	\$1,425.96	\$1,922.51	\$2,317.37	\$2,557.13	\$3,089.51	\$3,070.88	\$4,138.85
CMRS Allocation (out)							
CMRS Disbursement	-\$385,148.64	\$0.00	-\$144,885.28	\$0.00	-\$255,228.45	\$203,574.86	-\$252,552.20
CMRS Account Balance	\$2,510,609.69	\$2,512,532.20	\$2,369,964.29	\$2,372,521.42	\$2,120,382.48	\$2,327,028.22	\$2,078,614.87

PSAP Account

FY2023 beginning Account Balance:	\$18,228,801.98						
	July 2022	August 2022	September 2022	October 2022	November 2022	December 2022	January 2023
Service Charge Receipts	\$3,380,749.25	\$3,062,478.62	\$3,122,376.85	\$2,715,827.44	\$3,492,072.92	\$2,084,300.52	\$4,325,098.93
Wireline Service Charge Receipts	\$389,227.04	\$344,240.91	\$340,531.18	\$343,437.57	\$324,685.59	\$321,362.26	\$304,581.14
VOIP Service Charge Receipts	\$870,695.26	\$907,265.54	\$751,968.38	\$708,557.55	\$762,971.32	\$707,017.24	\$755,975.87
Prepaid Wireless Service Charge Receipts	\$1,145,916.41	\$1,080,316.60	\$787,600.26	\$758,224.96	\$588,535.64	\$756,271.94	\$748,968.12
Interest allocation	\$9,325.15	\$15,700.85	\$21,170.13	\$3,702.39	\$6,541.21	\$10,302.78	\$14,121.35
Subtotal	\$5,795,913.11	\$5,410,002.52	\$5,023,646.80	\$4,529,749.91	\$5,174,806.68	\$3,879,254.74	\$6,148,745.41
PSAP Allocation (out)			-\$21,776,154.00				
PSAP Distributions	-\$3,520,937.37	-\$2,960,722.70	-\$2,769,152.18	-\$2,937,973.56	-\$3,019,703.27	-\$3,117,941.79	-\$2,961,662.70
PSAP Account Balance	\$20,503,777.72	\$22,953,057.54	\$3,431,398.16	\$5,023,174.51	\$7,178,277.92	\$7,939,590.87	\$11,126,673.58

OSC Certified

Cash Basis

PSAP Grant-Statewide 911 Projects Account

		Total Disbursed								Encumbered Amounts
		YTD	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	
			\$45,399,308.01	\$43,710,114.11	\$43,417,138.08	\$65,413,811.37	\$64,400,570.64	\$65,315,871.30	\$65,582,280.67	
LODGING - IN STATE – 532721	\$40,000.00									40,000.00
MEALS - IN STATE – 532724	\$10,000.00									10,000.00
WORKSHOP/CONF EXP-MISC 532199900	\$17,000.00									17,000.00
WORKSHOP/CONF-ROOM RENTAL – 532513900	\$10,000.00									10,000.00
SUPPLIES -533110	\$3,000.00									3,000.00
Ortho Project III Image 22 (089) (MGJ)	\$3,430,142.00	-1,676,610.98	-532,769.19	-7,662.98	-332,772.74	-94,038.98	-23,648.08	-53,922.40	-14,209.62	1,213,098.85
Ortho Project III Image 23 (100)	\$3,324,000.00	0.00								3,324,000.00
Approved Transfer-In					21,776,154.00					
Interest			23,224.54	33,471.19	40,044.62	70,579.80	83,862.90	94,594.80	116,644.63	
Revenue			886,232.82	897,134.18	855,124.22	773,683.34	872,454.05	661,359.32	1,048,653.69	
Total Ending Account										
Balance		\$ 45,399,308.01	\$43,710,114.11	\$43,417,138.08	\$65,413,811.37	\$64,400,570.64	\$65,315,871.30	\$65,582,280.67	\$66,688,900.96	

Cash Basis Reporting

OSC - certified report

Committed: \$30,097,216.89
Grant Account Balance \$36,591,684.07

Tab 9 f)

Grant Project Updates per Reports



Chatham County Emergency Communications

297 West Street • Pittsboro, NC 27312

Office 919.545.8163
24-hour Warning Point 919.542.2911
www.chathamnc.org

December 6, 2022

Attn: L. V. Pokey Harris, Executive Director

N.C. 911 Board

P.O. Box 17209

Raleigh, NC 27609

Reference: Chatham County FY2020 Grant Report

Ms. Harris:

We continue to make progress on this project and plan to have the system turned on by the end of December. We are in the process of aligning microwave dishes and connecting hardware inside the equipment shelters. VIPER has begun installation and connection of specific radio components and associated equipment at all sites in the system.

Let me know if you have any questions.

Regards:

A handwritten signature in black ink, appearing to read 'Mike Reitz', written in a cursive style.

Mike Reitz

Director



Franklin County, NC

Grant Report – January 2023

Activities – January 2023

- **Construction**
 - Electrical rough-in is 99% complete
 - Electrical panel frames on-site
 - Roof installation is complete
 - Rough-in for security cameras has begun
 - HVAC installation has begun
 - Continue interior wall preparation
 - Curb completed
 - Door frames and some doors installed
- **Technology**
 - Continued coordination meetings with AT&T
 - Continued audio/video (A/V) procurement
 - Participated in grounding discussions
 - Continued coordination with TelCom providers
 - Finalized access control and security plan
 - Continued meetings with radio vendor for updates/planning
 - Continued logging recording procurement coordination
 - Began scheduling furniture, fixtures, and equipment
 - Held project status meeting for team coordination

Anticipated Activities – February 2023

- **Construction**
 - Wall panel installation will begin
 - Curtain wall and other glass will be completed
 - Pipe installation
 - Continued review of submittals
 - Fiber installation
- **Technology**
 - Continue coordination meetings with AT&T
 - Update critical systems timeline
 - Continue coordination of delivered technologies
 - Continue coordination with vendors and state for procurement and payment
 - Coordinate tandem radio system discussions
 - Finalize the A/V procurement

Franklin County, NC Grant Report – January 2023

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 – January 2023

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)	March 2022	
Procure new technology and furnishings	Months 26-30	October 2022	
Substantial completion of construction, address any facility punch list issues	Month 30		
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.



Franklin County, NC Grant Report – December 2022

Activities – December 2022

- **Construction**
 - Electrical rough-in is 60% complete
 - All window frames are installed
 - Masonry has begun
 - Roof installation is 60% complete
 - Began interior finishes
- **Technology**
 - Continued coordination meetings with AT&T
 - Initiated audio/video (A/V) planning
 - Ordered dispatch furniture
 - Continued coordination with TelCom providers
 - Began coordination on access control and security
 - Continued meetings with radio vendor for updates/planning
 - Finalized logging recording proposal
 - Began scheduling furniture, fixtures, and equipment
 - Held project status meeting for team coordination

Anticipated Activities – January 2023

- **Construction**
 - Complete electrical rough-in
 - Roof installation complete
 - Complete masonry
 - Continued review of submittals
- **Technology**
 - Continue coordination meetings with AT&T
 - Coordination of delivered technologies
 - Review procurements and budget
 - Coordinate tandem radio system discussions
 - Finalize the A/V procurement

Franklin County, NC Grant Report – December 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 – December 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)	March 2022	
Procure new technology and furnishings	Months 26-30	October 2022	
Substantial completion of construction, address any facility punch list issues	Month 30		
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.



Franklin County, NC Grant Report – November 2022

Activities – November 2022

- **Construction**
 - Began masonry
 - Completed roof pour
 - Completed drain system
 - Completed curb and gutter
 - Plumbing rough-in completed
 - Began drywall framing
 - Continued electrical rough-in
- **Technology**
 - Continued coordination meetings with AT&T
 - Finalized furniture selection and layout
 - Finalized access control / security purchases
 - Continued meetings with radio vendor for updates/planning
 - On-site radio tower coordination
 - Coordinated technology meetings

Anticipated Activities – December 2022

- **Construction**
 - HVAC duct work and testing
 - Begin interior finishes: drywall, primer
 - Exterior finishes: brick veneer, metal cladding
 - Roof work completed
 - Install security fencing
- **Technology**
 - Continue coordination meetings with AT&T
 - Coordination meetings with vendors and contractor for technology solutions
 - Procure furniture
 - Coordinate tandem radio system discussions
 - Coordinate remaining procurement items
 - Facilitate CAD/RMS meetings

Franklin County, NC Grant Report – November 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 – November 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)	March 2022	
Procure new technology and furnishings	Months 26-30	October 2022	
Substantial completion of construction, address any facility punch list issues	Month 30		
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.



Clay County, NC Grant Report – January 2023

Activities – January 2023¹

- 12/15/2022 Prebid Meeting
- Reviewed questions related to construction bid package
- Communicated regularly with project team (ongoing)

Anticipated Activities – February 2023

- 2/2/2023 Review Bids
- Award Bid
- Negotiate Contract
- Communicate regularly with project team (ongoing)

¹ Additional documentation comprised of Addendums 1, 2, 3, 4 and Notice to Bidders is included with this report and attached to the PDF version of this report only.

Clay County, NC Grant Report – January 2023

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)	November 2022	X
Bid and award construction project	Months 16-18 (February – April 2022)	February 2023	

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

Clay County, NC Grant Report – January 2023

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)		

ADDENDUM 1

Date of Addendum: December 15, 2022

Project Name: Clay County 911 Center

PROJECT INFORMATION

- A. Owner: Clay County NC Government9
- B. Architect: LS3P
- C. Architect Project Number: 0701-211165

NOTICE TO BIDDERS

- A. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.
- B. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.
- C. Attachments within this Addendum include, but may not be limited to, modifications as noted.

REVISION TO BID DATE

I-1 The bid date has been changed; the bid opening location is unchanged. Revise the Notice to Bidders and Instructions to Bidders as follows: Single Prime sealed proposals will be received by Clay County NC Government no later than 2:00 PM, **February 2, 2023**, at the Office of the County Manager located at 345 Courthouse Drive, Hayesville, NC 28904.

END OF ADDENDUM 1

ADDENDUM 2

Date of Addendum: December 19, 2022

Project Name: Clay County 911 Center

PROJECT INFORMATION

- A. Owner: Clay County NC Government
- B. Architect: LS3P
- C. Architect Project Number: 0701-211165

NOTICE TO BIDDERS

- A. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.
- B. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.

ATTACHMENTS

- A. This Addendum includes the sign-in sheet for the prebid conference.
- B. This Addendum includes the following attached Documents and Specification Sections:
FORM OF PROPOSAL reissued.
Section 07 4113, new.
- C. This Addendum includes the following attached Sheets:
Electrical:
Sheets E2.1, E3.1, E4.1, E5.1, reissued

PREBID CONFERENCE

Item II-1 A prebid conference was held on December 15 at 11 AM in the County Manager's office. Items of discussion included:

- A. The bid opening date was changed to February 2, 2023. See addendum 1 for details.
- B. The project is partially funded by a grant from the NC 911 Board, and Mission Critical Partners (MCP) is the Owner's consultant for verifying compliance with 911 Board requirements. MCP will continue to be involved throughout the construction process.
- C. Bidders are encouraged to review the Accountabilities Spreadsheet, Section 01 1000A of the project manual, for itemized information on the division of labor between the General Contractor and the Owner's subcontractors and vendors. The GC will be expected to coordinate closely with the Owner's vendors and subcontractors.

- D. The enhanced security and systems redundancy provisions required to meet the 911 Board requirements will impact numerous trades, and bidders are encouraged to review these carefully. Impacted trades include, but are not limited to, masonry, doors and frames, aluminum framing systems, door hardware, glazing, resilient flooring and carpet, HVAC units and controls, electrical system grounding, electrical back-up power and UPS systems.
- E. Bidders are encouraged to email both Scott Donald (scottdonald@ls3p.com) and Amy Dowty (amydowty@ls3p.com) at LS3P with questions or substitution requests during bidding. Bidders may contact engineers of record for issues involving those trades; copy Scott Donald and Amy Dowty on those communications.

REVISIONS TO THE PROJECT MANUAL

Item II-2 Section 00 1000: In the first paragraph, revise the bid date to February 2, 2023.

Item II-3 Section 01 2300: Add Alternate 5 to paragraph 3.1 as follows. See also revised form of proposal, attached:

E Alternate 5 – Standing Seam Metal Roof

1. Base Bid: Provide and install asphalt shingles at roofs as shown in the drawings and as specified at Section 07 4646.
2. Alternate: Provide and install standing seam metal roofing with snowguards in lieu of asphalt shingles, as specified at Section 07 4113, attached.

Item II-4 Section 06 1300: Revise as follows:

- A. Add new paragraph 1.6.C: Factory applied protection: Before shipping or exposing to outdoor conditions, bundle-wrap or individually wrap finished products with opaque, durable, water-resistant, plastic-coated paper covering with water-resistant seams
- B. Add new paragraph 2.6 as follows:

2.6 FACTORY FINISHING

- A. Factory Finishing: Fabricator's standard products and processes, suitable for exterior use, resistant to mildew and fungus.
 1. Wood Stain: Oil based, penetrating semi-transparent stain-and-sealer.
 2. Stain Color: As selected from stain manufacturer's full line of standard colors. Provide samples for selection.

Item II-5 Section 06 1516: Revise as follows:

- A. Add new paragraph 1.4 as follows:

1.4 SHIPPING & HANDLING

- A. Before shipping or exposing to outdoor conditions, bundle-wrap or individually wrap finished products with opaque, durable, water-resistant, plastic-coated paper covering with water-resistant seams

- B. Add new paragraph 2.4 as follows:

2.4 FACTORY FINISHING

- A. Factory Finishing: Fabricator's standard products and processes, suitable for exterior use, resistant to mildew and fungus.
1. Wood Stain: Oil based, penetrating semi-transparent stain.
 2. Wood Sealer: Oil based exterior polyurethane, clear, satin finish, one coat.
 3. Stain Color: As selected from stain manufacturer's full line of standard colors. Provide samples for selection.

Item II-6 Section 07 4113: Add new Section 07 4113 Standing Seam Metal Roof Panels, attached, to the Project Manual.

Item II-7 Section 08 5653: Delete paragraph 1.3.C. Ballistics resistance is not required at transaction window; delegated design is not required.

Item II-8 Form of Proposal: Replace with revised Form of Proposal, attached.

- A. Added spaces to record names, license numbers, phone numbers of major subcontractors.
- B. Added Alternate 5 to list of Alternates.

REVISIONS TO DRAWING SHEETS

Item II-9 Sheet E2.1: Replace with revised sheet, attached. Layout of Elec 113 revised to accommodate maintenance bypass transfer switch.

Item II-10 Sheet E3.1: Replace with revised sheet, attached.

- A. Layout of Elec 113 revised to accommodate maintenance bypass transfer switch.
- B. Drawing Notes revised to remove references to intercom and security systems. Such systems are By Owner, NIC.

Item II-11 Sheet E4.1: Replace with revised sheet, attached. Revisions to Electrical Symbol Legend:

- A. References to low-voltage cabling other than structured cabling has been removed from Legend. Such systems are By Owner, NIC.
- B. Revised legend item Intercom Loudspeaker to be "shown for location and coordination only." Such systems are by Owner, NIC
- C. All remaining low-voltage cabling described in the legend has been removed from project. Contract scope is limited to rough-ins only; cabling is By Owner, NIC.
- D. Contractor shall fit each rough-in with a trim/mud ring as described, matching blank trim plate, and conduit bushings. Install a pull string in all conduit left empty.
- E. Legend Notes and Details reformatted for improved plotting / graphical clarity. No content change.

Item II-12 Sheet E5.1: Replace with revised sheet, attached. Feeder diagram modified to accommodate maintenance bypass transfer switch.

CLARIFICATIONS

Item II-13 Section 27 15 13 "Communications Copper Horizontal Cabling" is included in the Project Manual for reference and Owner's use only. All work under this Section is By Owner, NIC. See Accountabilities Spreadsheet, Section 01 1000A.

Item II-14 Chain Link Fence and Gates: At Sheet C-204, the Chain Link Fence and Gate Detail describes a sliding gate but depicts a swing gate. A motorized sliding gate is required at the entry to the secure parking lot; all other gates designated on the Drawings are swing gates. Refer to Section 32 3113 in the Project Manual for requirements for gates and fences.

END OF ADDENDUM 2

CLAY 911 PREBID CONFERENCE

12.15.22

Amy Dowty, LS3P 828.254.1963 amydowty@ls3p.com

Scott Donald, LS3P " scottdonald@ls3p.com

Ben Wilson, Brentley Construction 828.381.3159 JBenson@Brentleyconstruction.com

Harrison Sloop, Harper General Contractors, 828-702-5021 HSloop@harpergc.com

Penland Builders, Robert Penland - Robert@penlandbuilders.com

Jared Shook - JShook@penlandbuilders.com

Wells & West, Inc. Charles West CW@WELLSWEST.COM

Wells & West Inc Kelly Luther kluther@wellswest.com

Clay County Ricky Lancaster rlanester@claync.us

Clay County 911 Kevin Sellens ksellens@claync.us

Clay County Debbie Mauney dmauney@claync.us

Clay County Randy Nichols randyanichols@yahoo.com

FORM OF PROPOSAL - SINGLE PRIME BID
Including General Construction, Electrical, Mechanical, & Fire Protection

Clay County Government
Clay County 911 Center
Hayesville, North Carolina

The undersigned, as Bidder, hereby declares that: the only person or persons interested in this proposal as principal or principals is or are named herein, and no other person than herein mentioned has any interest in this proposal or in the Contract to be entered into; this proposal is made without connection with any other person, company, or party making a bid or proposal; and it is in all respects fair and in good faith without collusion or fraud. The Bidder further declares that: he has examined the site of the Work and informed himself fully in regard to all conditions pertaining to the place where the Work is to be done; he has examined the Specifications for the Work and the Contract Documents relative thereto, and has read all special provisions furnished prior to the opening of bids; and he has satisfied himself relative to the Work to be performed.

The Bidder proposes and agrees if this proposal is accepted to contract with **Clay County Government** hereinafter called the Owner, in the form of Contract specified, to furnish all necessary material, equipment, machinery, tools, apparatus, means of transportation and labor necessary to complete all portions of the Work for **Clay County 911 Center** located at **151 Courthouse Drive in Hayesville, NC 28904**, for **Clay County Government**, in full and complete accordance with the Contract Documents to the full and entire satisfaction of the Owner (**Clay County Government**) with a definite understanding that no money will be allowed for extra work except as set forth in the General Contract Conditions and Contract Documents, for the sum of:

SINGLE PRIME CONTRACT

BASE BID

Dollars \$

General Construction: _____

License: _____ Phone: _____

Site Construction: _____

License: _____ Phone: _____

Plumbing: _____

License: _____ Phone: _____

Mechanical: _____

License: _____ Phone: _____

Electrical: _____

License: _____ Phone: _____

Alternates: Should the Owner elect to accept any of the alternates shown on the Drawings or described **Section 01 2300 "ALTERNATES,"** the amount written below shall be the amount to be "added to" the Base Bid:

1. **Alternate No. 1:** Preferred Brand Hardware

ADD _____ **Dollars \$**

2. **Alternate No. 2:** Preferred Brand Signage

ADD _____ **Dollars \$**

3. **Alternate No. 3:** EMT Conduit, Compression Fittings

ADD _____ **Dollars \$**

4. **Alternate No. 4:** Preferred Vendor, Fire Alarm System

ADD _____ **Dollars \$**

5. **Alternate No. 5:** Standing Seam Roofing

ADD _____ **Dollars \$**

Allowances indicated below and noted in **Section 01 2100 "ALLOWANCES,"** are included in Base Bid above and are for actual installed cost of the work with NC sales tax included. Contractor is to add to and include in his base bid, bonding, overhead, and profit for:

1. **Allowance No. 1:** Quantity Allowance for undercut/off-site disposal of unsuitable soils & select backfill (from off-site) as specified in Sections 31 2316 "Excavation" and 31 2323 "Fill." Base Bid quantity = 1,250 CY. This allowance shall be based on the quantity here stated, as multiplied by the unit price included on the proposal form. Once the actual quantity is determined in the field, the unit price will be used to adjust the Contract Amount up or down, as required. See associated Unit Price 1.
2. **Allowance No. 2:** Stipulated Sum Allowance of face brick as specified in Section 04 2000 "Unit Masonry," and as shown on Drawings, delivered and unloaded at the site: Allow six hundred-seventy-five dollars (\$675) per thousand.

Unit Prices: Unit prices, noted in **Section 01 2200 "UNIT PRICES,"** quoted, and accepted shall apply throughout the life of the Contract, except as otherwise specifically noted. Unit prices shall be applied, as appropriate, to compute the total value of changes in scope of the Work all in accordance with Contract Documents.

1. **Unit Price No. 1:** Undercut/off-site disposal of unsuitable soils & select backfill (from off-site)

ADD _____
 _____ **Dollars \$** /Cu. Yd.

Respectfully submitted this _____ day of _____, **20**_____.

(Name of Firm or Corporation Making Bid)

Witness:

By _____

(Proprietorship or Partnership)

Title _____
(Owner, partner, Corp. Pres., or Vice Pres. only)

Attest:

Address _____

By _____

Title _____
(Corp. Sec. or Assist. Sec. only)

License No.

Federal I.D. No. _____

(Corporate Seal)

Addenda Received and Used in Computing Bid (Initial as appropriate)

Addendum No. _____	Dated _____	Received _____
Addendum No. _____	Dated _____	Received _____
Addendum No. _____	Dated _____	Received _____
Addendum No. _____	Dated _____	Received _____
Addendum No. _____	Dated _____	Received _____
Addendum No. _____	Dated _____	Received _____
Addendum No. _____	Dated _____	Received _____
Addendum No. _____	Dated _____	Received _____

SECTION 07 4113

STANDING-SEAM METAL ROOF PANELS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Standing-seam metal roof panels.
 - 2. Snow Guards
 - 3. Gutters and Downspouts

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product and accessory
- B. Shop Drawings:
 - 1. Roofing: Include fabrication and installation layouts of metal panels; details of edge conditions, joints, panel profiles, corners, anchorages, attachment system, trim, flashings, closures, and accessories; and special details.
 - 2. Snow guards: Roof plans showing snowguard layouts and attachment details.
- C. Samples:
 - 1. For each type of metal panel indicated.
 - 2. Snow guard units with factory-applied finishes

1.3 INFORMATIONAL SUBMITTALS

- A. Product test reports.
 - 1. Roofing: Indicated compliance with requirements and design in compliance with performance criteria.
 - 2. Snow Guards: For each type of snow guard, for tests performed by a qualified testing agency, indicating load at failure of attachment to roof system identical to roof system used on this Project.
- B. Warranties: Sample of special warranties.
- C. Delegated Design Submittal: For snow guards, include analysis reports signed and sealed by the qualified professional engineer responsible for their preparation
 - 1. Include calculation of number and location of snow guards.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance data.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.

1.6 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal panel systems that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Two years from date of Substantial Completion.
- B. Special Project Warranty: Submit roofing Installer's warranty, on warranty form at end of this Section, signed by Installer, covering the Work of this Section, including all components of roofing system, for the following warranty period:
 - 1. Warranty Period: Two years from date of Substantial Completion.
- C. Special Warranty on Panel Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace metal panels that show evidence of deterioration of factory-applied finishes within specified warranty period.
 - 1. Finish Warranty Period: 20 years from date of Substantial Completion.
- D. Special Weathertightness Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace standing-seam metal roof panel assemblies that fail to remain weathertight, including leaks, within specified warranty period, without monetary limitation.
 - 1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 ROOFING PERFORMANCE REQUIREMENTS

- A. Structural Performance: Provide metal panel systems capable of withstanding the effects of the following loads, based on testing according to ASTM E1592:
 - 1. Wind Loads: As indicated on Drawings.
 - 2. Deflection Limits: For wind loads, no greater than 1/240 of the span.
- B. Air Infiltration: Air leakage of not more than 0.06 cfm/sq. ft. when tested according to ASTM E1680 or ASTM E283 at the following test-pressure difference:
 - 1. Test-Pressure Difference: 6.24 lbf/sq. ft..
- C. Water Penetration under Static Pressure: No water penetration when tested according to ASTM E1646 at 25 psf
- D. Wind-Uplift Resistance: Provide metal roof panel assemblies that comply with UL 580 for wind-uplift-resistance class indicated.
 - 1. Uplift Rating: UL 60.
- E. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
 - 1. Temperature Change (Range): 120 deg F, ambient; 180 deg F, material surfaces.

2.2 ROOFING MANUFACTURER

- A. Basis of Design: 1-1/2 inch Field-Lok by ATAS International or comparable product by one of the following:
 - 1. MBCI
 - 2. McElroy Metal
 - 3. Superior Metal System

2.3 STANDING-SEAM METAL ROOF PANELS

- A. Provide factory-formed metal roof panels designed to be installed by lapping and interconnecting raised side edges of adjacent panels with joint type indicated and mechanically attaching panels to supports using concealed clips in side laps. Include clips, cleats, pressure plates, and accessories required for weathertight installation.
1. Steel Panel Systems: Unless more stringent requirements are indicated, comply with ASTM E1514.
- B. Vertical-Rib, Seamed-Joint, Standing-Seam Metal Roof Panels: Formed with vertical ribs at panel edges and intermediate stiffening ribs symmetrically spaced between ribs; designed for sequential installation by mechanically attaching panels to supports using concealed clips located under one side of panels, engaging opposite edge of adjacent panels, and mechanically seaming panels together. Contractor option to provide galvanized steel or aluminum, conforming to one of the following:
1. Metallic-Coated Steel Sheet: Zinc-coated (galvanized) steel sheet complying with ASTM A653/A653M, G90 coating designation, or aluminum-zinc alloy-coated steel sheet complying with ASTM A792/A792M, Class AZ50 coating designation; structural quality. Prepared by the coil-coating process to comply with ASTM A755/A755M.
 - a. Nominal Thickness: 24 gauge
 2. Aluminum Sheet: Coil-coated sheet, ASTM B209, alloy as standard with manufacturer, with temper as required to suit forming operations and structural performance required.
 - a. Thickness: 0.032 inch (1.02 mm).
 3. Exterior Finish: Two-coat fluoropolymer.
 - a. Color: Match adjacent Clay County Government Buildings
 4. Clips: Two-piece floating to accommodate thermal movement.
 - a. Material for steel sheet panels: 0.064-inch- nominal thickness, zinc-coated (galvanized) or aluminum-zinc alloy-coated steel sheet.
 - b. Material for aluminum sheet panels: 0.025-inch thick, stainless-steel sheet
 5. Panel Coverage: 20.75 inches
 6. Panel Height: 1.5 inches.

2.4 UNDERLAYMENT MATERIALS

- A. Self-Adhering, High-Temperature Underlayment: Provide self-adhering, cold-applied, sheet underlayment, a minimum of 30 mils thick, consisting of slip-resistant, polyethylene-film top surface laminated to a layer of butyl or SBS-modified asphalt adhesive, with release-paper backing. Provide primer when recommended by underlayment manufacturer.
1. Thermal Stability: Stable after testing at 240 deg F; ASTM D1970.
 2. Low-Temperature Flexibility: Passes after testing at minus 20 deg F; ASTM D1970.
 3. Basis-of-Design Product: Subject to compliance with requirements, provide GCP Applied Technologies Inc.; Grace Ice and Water Shield HT or comparable product by one of the following:
 - a. Carlisle WIP Products; a brand of Carlisle Construction Materials.
 - b. Henry Company.

2.5 SNOW GUARDS

- A. Snow Guard Performance Requirements:
1. Engaged a qualified professional engineer to design snow guards, including attachment to roofing material and roof deck, applicable for attachment method, based on the following:
 - a. Roof snow load.
 - b. Snow drifting
 - c. Roof slope.
 - d. Roof type.
 - e. Roof dimensions.

- f. Roofing substrate type and thickness.
 - g. Snow guard type.
 - h. Snow guard fastening method and strength.
 - i. Snow guard spacing.
2. Provide snow guards that withstand exposure to weather and resist thermally induced movement without failure, rattling, or fastener disengagement due to defective manufacture, fabrication, installation, or other defects in construction.
 - a. Temperature Change: 120 deg F Ambient; 180 deg F material surfaces
 3. Structural Performance: Snow guards shall withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated.
 - a. Snow Loads: As indicated on Drawings
- B. Rail-Type, Seam-Mounted Snow Guards:
1. Basis of Design: Alpine Snowguards ASG4025 or comparable product by one of the following:
 - a. Berger; division of OmniMax International, Inc.
 - b. Rocky Mountain Snow Guards, Inc.
 - c. S-5! Metal Roof Innovations, Ltd.
 2. Description: Snow guard rails fabricated from metal pipes, bars, or extrusions, anchored to brackets and equipped with two rails unless otherwise noted.
 3. Brackets and Baseplates: Aluminum with Powder-coated finish.
 4. Bars: Aluminum with Powder-coated finish
 - a. Profile: Round
 5. Seam clamps: ASTM B221 aluminum extrusion or ASTM B85/B85M aluminum casting with stainless steel set screws incorporating round nonpenetrating point; designed for use with applicable roofing system to which clamp is attached.
 6. System Finish: Powder coated finish custom color to match standing seam roof

2.6 MISCELLANEOUS MATERIALS

- A. Miscellaneous Metal Subframing and Furring: ASTM C645; cold-formed, metallic-coated steel sheet, ASTM A653/A653M, G90 coating designation or ASTM A792/A792M, Class AZ50 coating designation unless otherwise indicated. Provide manufacturer's standard sections as required for support and alignment of metal panel system.
- B. Panel Accessories: Provide components required for a complete, weathertight panel system including trim, copings, fasciae, mullions, sills, corner units, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal panels unless otherwise indicated.
1. Closures: Provide closures at eaves and ridges, fabricated of same metal as metal panels.
 2. Backing Plates: Provide metal backing plates at panel end splices, fabricated from material recommended by manufacturer.
 3. Closure Strips: Closed-cell, expanded, cellular, rubber or crosslinked, polyolefin-foam or closed-cell laminated polyethylene; minimum 1-inch-thick, flexible closure strips; cut or premolded to match metal panel profile. Provide closure strips where indicated or necessary to ensure weathertight construction.
- C. Flashing and Trim: Provide flashing and trim formed from same material as metal panels as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, eaves, rakes, corners, bases, framed openings, ridges, fasciae, and fillers. Finish flashing and trim with same finish system as adjacent metal panels.

- D. Gutters and Downspouts: Formed from same material as roof panels according to SMACNA's "Architectural Sheet Metal Manual." Finish to match metal roof panels, profiles as indicated on Drawings.
- E. Panel Fasteners: Self-tapping screws designed to withstand design loads.
- F. Panel Sealants: Provide sealant type recommended by manufacturer that are compatible with panel materials, are nonstaining, and do not damage panel finish.
 - 1. Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing; 1/2 inch wide and 1/8 inch thick.
 - 2. Joint Sealant: ASTM C920; as recommended in writing by metal panel manufacturer.
 - 3. Butyl-Rubber-Based, Solvent-Release Sealant: ASTM C1311.

2.7 FABRICATION

- A. Fabricate and finish metal panels and accessories at the factory, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.
- B. Provide panel profile, including major ribs and intermediate stiffening ribs, if any, for full length of panel.
- C. Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's recommendations and recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated.

2.8 FINISHES

- A. Roofing Panels:
 - 1. Two-Coat Fluoropolymer: AAMA 621. Fluoropolymer finish containing not less than 70 percent polyvinylidene fluoride (PVDF) resin by weight in color coat.
 - 2. Concealed Finish: White or light-colored acrylic or polyester backer finish.
- B. Snow Guard:
 - 1. Factory Applied Powder-coated finish - custom color to match roofing color as selected by Architect.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Miscellaneous Supports: Install subframing, furring, and other miscellaneous panel support members and anchorages according to ASTM C754 and metal panel manufacturer's written recommendations.

3.2 INSTALLATION OF UNDERLAYMENT

- A. Self-Adhering Sheet Underlayment: Apply primer if required by manufacturer. Comply with temperature restrictions of underlayment manufacturer for installation. Apply at locations indicated below, wrinkle free, in shingle fashion to shed water, and with end laps of not less than 6 inches staggered 24 inches between courses. Overlap side edges not less than 3-1/2 inches. Extend underlayment into gutter trough. Roll laps with roller. Cover underlayment within 14 days.
 - 1. Apply over the entire roof surface.

3.3 INSTALLATION OF STANDING SEAM METAL ROOF PANELS

- A. Standing-Seam Metal Roof Panel Installation: Fasten metal roof panels to supports with concealed clips at each standing-seam joint at location, spacing, and with fasteners recommended in writing by manufacturer.
 - 1. Install clips to supports with self-tapping fasteners.
 - 2. Install pressure plates at locations indicated in manufacturer's written installation instructions.
 - 3. Seamed Joint: Crimp standing seams with manufacturer-approved, motorized seamer tool so clip, metal roof panel, and factory-applied sealant are completely engaged.
 - 4. Watertight Installation:
 - a. Apply a continuous ribbon of sealant or tape to seal joints of metal panels, using sealant or tape as recommend in writing by manufacturer as needed to make panels watertight.
 - b. Provide sealant or tape between panels and protruding equipment, vents, and accessories.
 - c. At panel splices, nest panels with minimum 6-inch end lap, sealed with sealant and fastened together by interlocking clamping plates.
- B. Accessory Installation: Install accessories with positive anchorage to building and weathertight mounting and provide for thermal expansion. Coordinate installation with flashings and other components.
- C. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners where possible and set units true to line and level as indicated. Install work with laps, joints, and seams that will be permanently watertight and weather resistant.

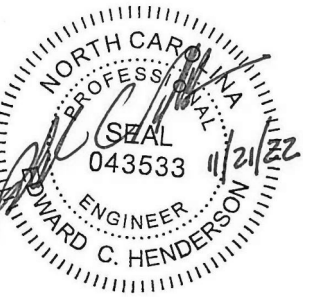
3.4 INSTALLATION OF SNOW GUARDS

- A. Install snow guards according to manufacturer's written instructions.
 - 1. Space rows as indicated on Shop Drawings and delegated design submission.
- B. Attachment for Standing-Seam Metal Roofing:
 - 1. Do not use fasteners that will penetrate metal roofing or fastening methods that void metal roofing finish warranty.
 - a. Install brackets to vertical ribs in straight rows.
 - b. Secure with stainless steel set screws, incorporating round nonpenetrating point, on same side of standing seam.
 - c. Torque set screw according to manufacturer's instructions.
 - d. Install cross members to brackets.

3.5 CLEANING AND PROTECTION

- A. Remove temporary protective coverings and strippable films, if any, as metal panels are installed, unless otherwise indicated in manufacturer's written installation instructions. On completion of metal panel installation, clean finished surfaces as recommended by metal panel manufacturer. Maintain in a clean condition during construction.

END OF SECTION



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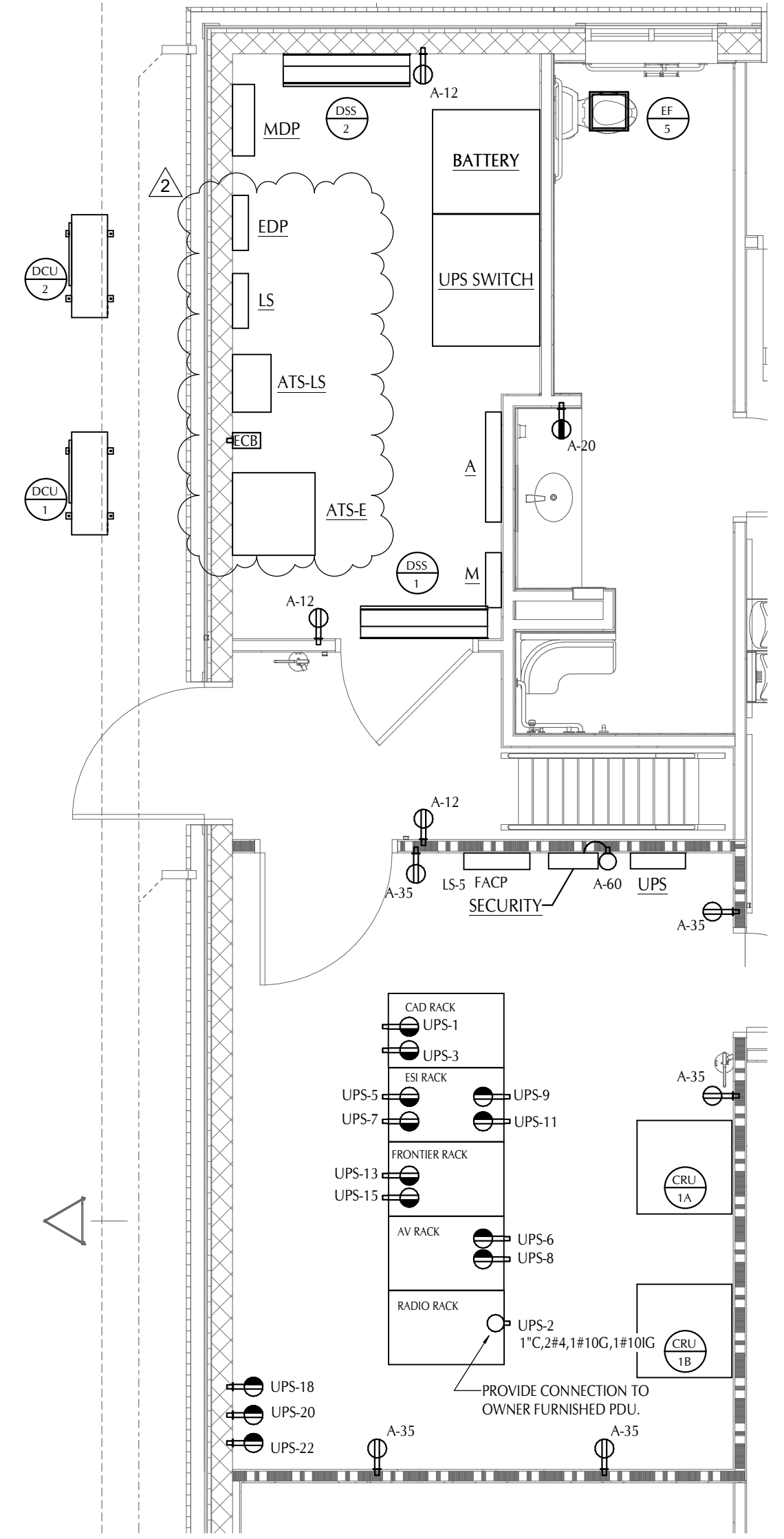
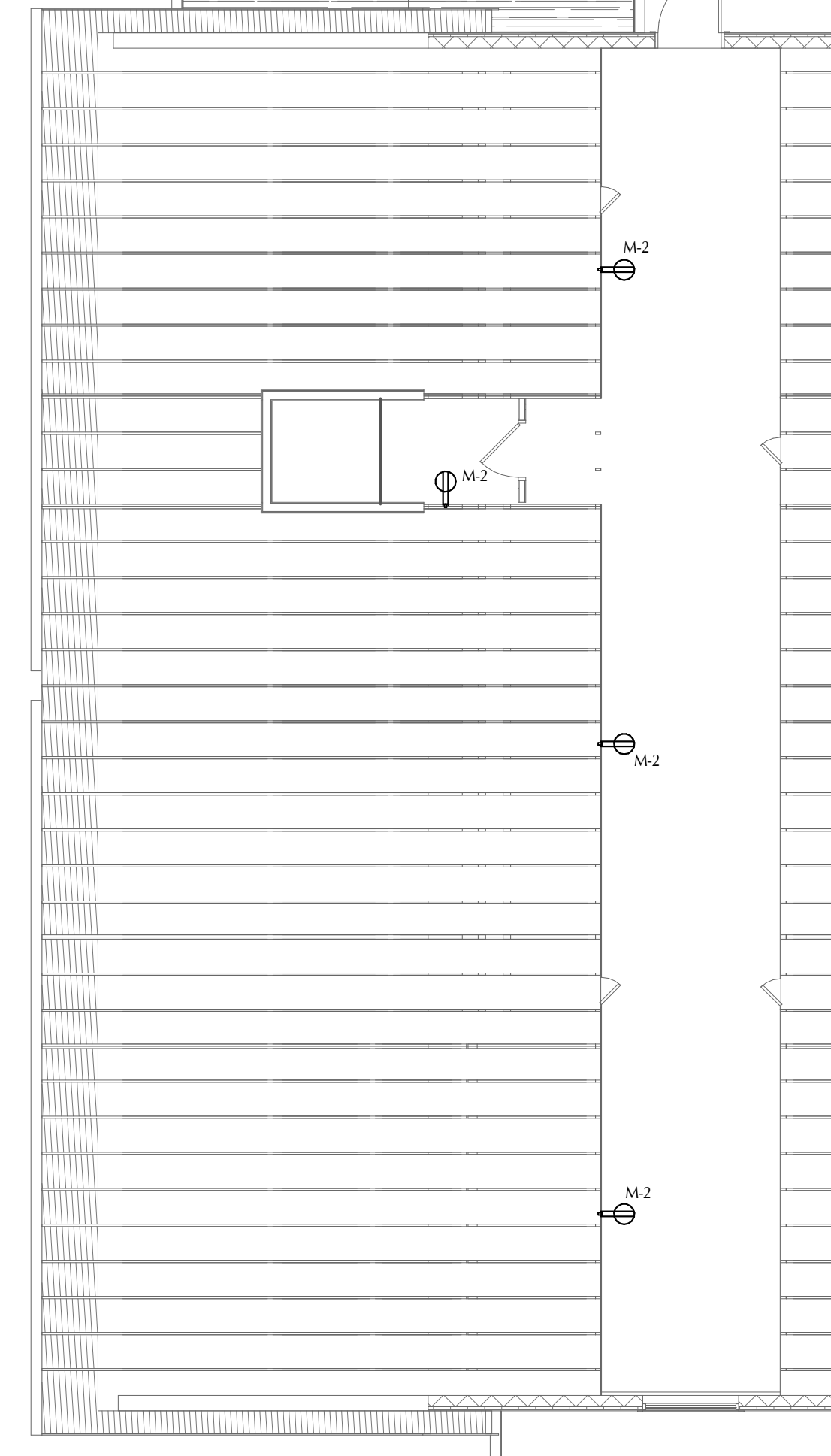
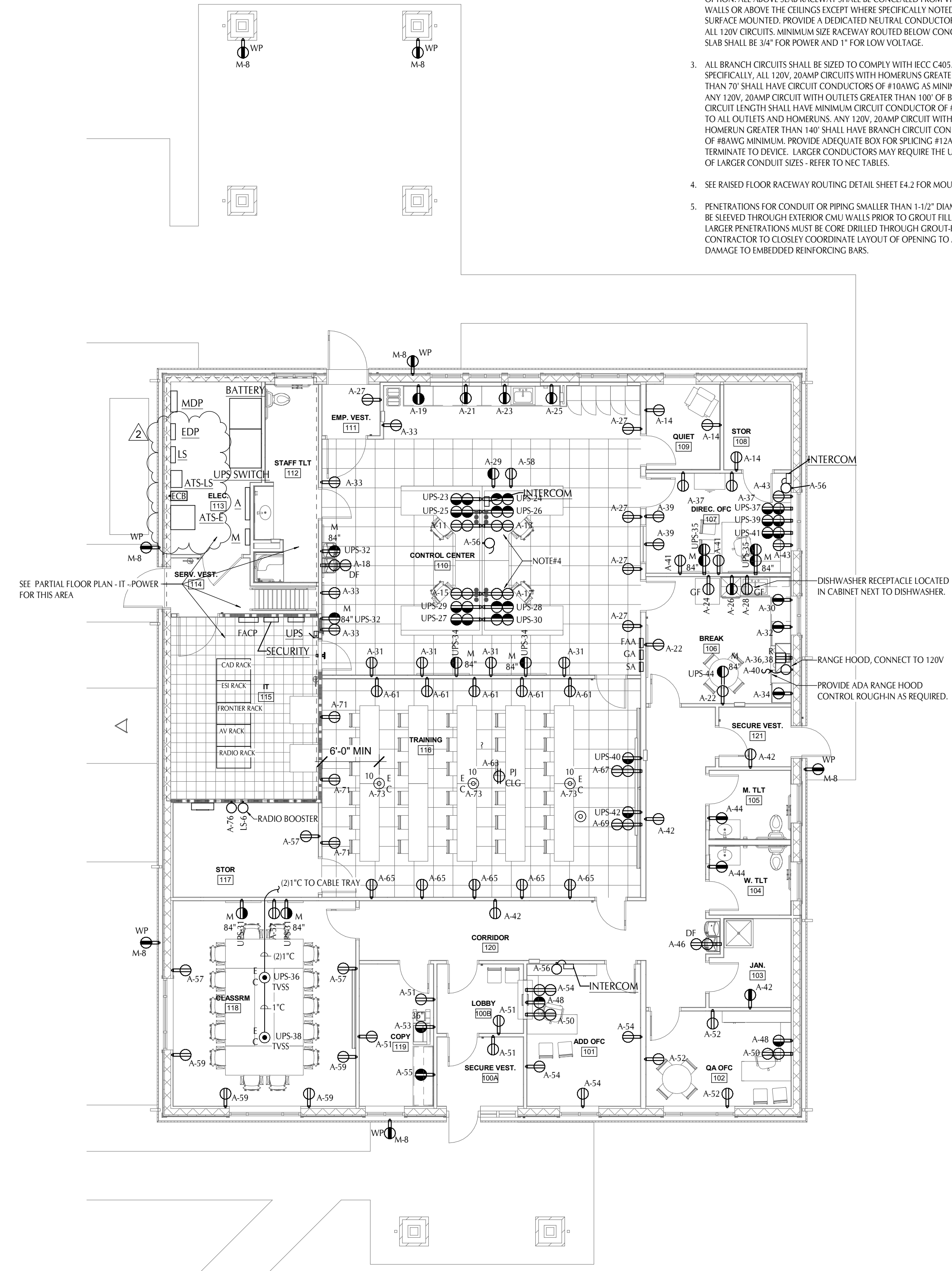
Δ	DATE	DESCRIPTION
2	12-19-2022	Addendum 2

SHEET NAME:
FLOOR PLANS - POWER

ORIG SUBMISSION: 11/21/22

SHEET: **E2.1**

- NOTES:
- PRIOR TO LOCATING ANY AND ALL DEVICES AT CASEWORK, COUNTERTOPS, ETC., THE ELECTRICAL CONTRACTOR SHALL REFER TO FINAL ARCHITECTURAL CASEWORK ELEVATIONS AND SHOP DRAWINGS TO VERIFY MOUNTING HEIGHTS AND LOCATIONS. ALL DEVICE LOCATIONS SHALL BE COORDINATED WITH THESE DRAWINGS AND/OR THE ARCHITECT PRIOR TO ROUGHING-IN.
 - CONTRACTOR SHALL PROVIDE ALL REQUIRED BRANCH CIRCUIT RACEWAY AND CONDUITORS FOR CONNECTION OF DEVICES SHOWN. WIRING MAY BE ROUTED OVERHEAD OR BELOW THE CONCRETE SLAB AT THE CONTRACTOR'S OPTION. ALL ABOVE SLAB RACEWAY SHALL BE CONCEALED FROM VIEW IN WALLS OR ABOVE THE CEILING EXCEPT WHERE SPECIFICALLY NOTED TO BE SURFACE MOUNTED. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR ALL 120V CIRCUITS. MINIMUM SIZE RACEWAY ROUTED BELOW CONCRETE SLAB SHALL BE 3/4" FOR POWER AND 1" FOR LOW VOLTAGE.
 - ALL BRANCH CIRCUITS SHALL BE SIZED TO COMPLY WITH IEC C405-9 SPECIFICALLY, ALL 120V, 20AMP CIRCUITS WITH HOMERUNS GREATER THAN 70' SHALL HAVE CIRCUIT CONDUCTORS OF #10AWG AS MINIMUM. ANY 120V, 20AMP CIRCUIT WITH OUTLETS GREATER THAN 100' OF BRANCH CIRCUIT LENGTH SHALL HAVE MINIMUM CIRCUIT CONDUCTOR OF #10AWG TO ALL OUTLETS AND HOMERUNS. ANY 120V, 20AMP CIRCUIT WITH HOMERUN GREATER THAN 140' SHALL HAVE BRANCH CIRCUIT CONDUCTOR OF #8AWG MINIMUM. PROVIDE ADEQUATE BOX FOR SPLICING #12AWG TO TERMINATE TO DEVICE. LARGER CONDUCTORS MAY REQUIRE THE UTILIZATION OF LARGER CONDUIT SIZES - REFER TO NEC TABLES.
 - SEE RAISED FLOOR RACEWAY ROUTING DETAIL SHEET E4.2 FOR MOUNTING.
 - PENETRATIONS FOR CONDUIT OR PIPING SMALLER THAN 1-1/2" DIAMETER MUST BE SLEEVED THROUGH EXTERIOR CMU WALLS PRIOR TO GROUT FILL OF CMU. LARGER PENETRATIONS MUST BE CORE DRILLED THROUGH GROUT-FILLED CMU. CONTRACTOR TO CLOSELY COORDINATE LAYOUT OF OPENING TO AVOID DAMAGE TO EMBEDDED REINFORCING BARS.



RATED WALLS LEGEND

1 HR. RATED FIRE BARRIER

1 FLOOR PLAN - POWER
1/8" = 1'-0"

2 MECH PLATFORM PLAN - POWER
1/8" = 1'-0"

3 PARTIAL FLOOR PLAN - IT - POWER
1/4" = 1'-0"

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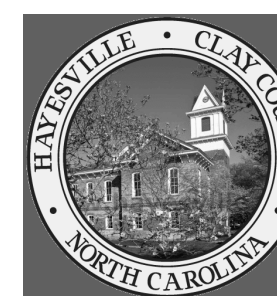
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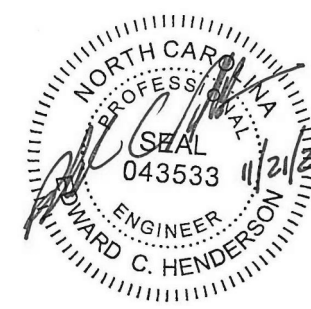
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DATE	DESCRIPTION
12-19-2022	Addendum 2

SHEET NAME:
FLOOR PLANS - COMMUNICATIONS & HVAC WIRING

ORIG SUBMISSION: 11/21/22

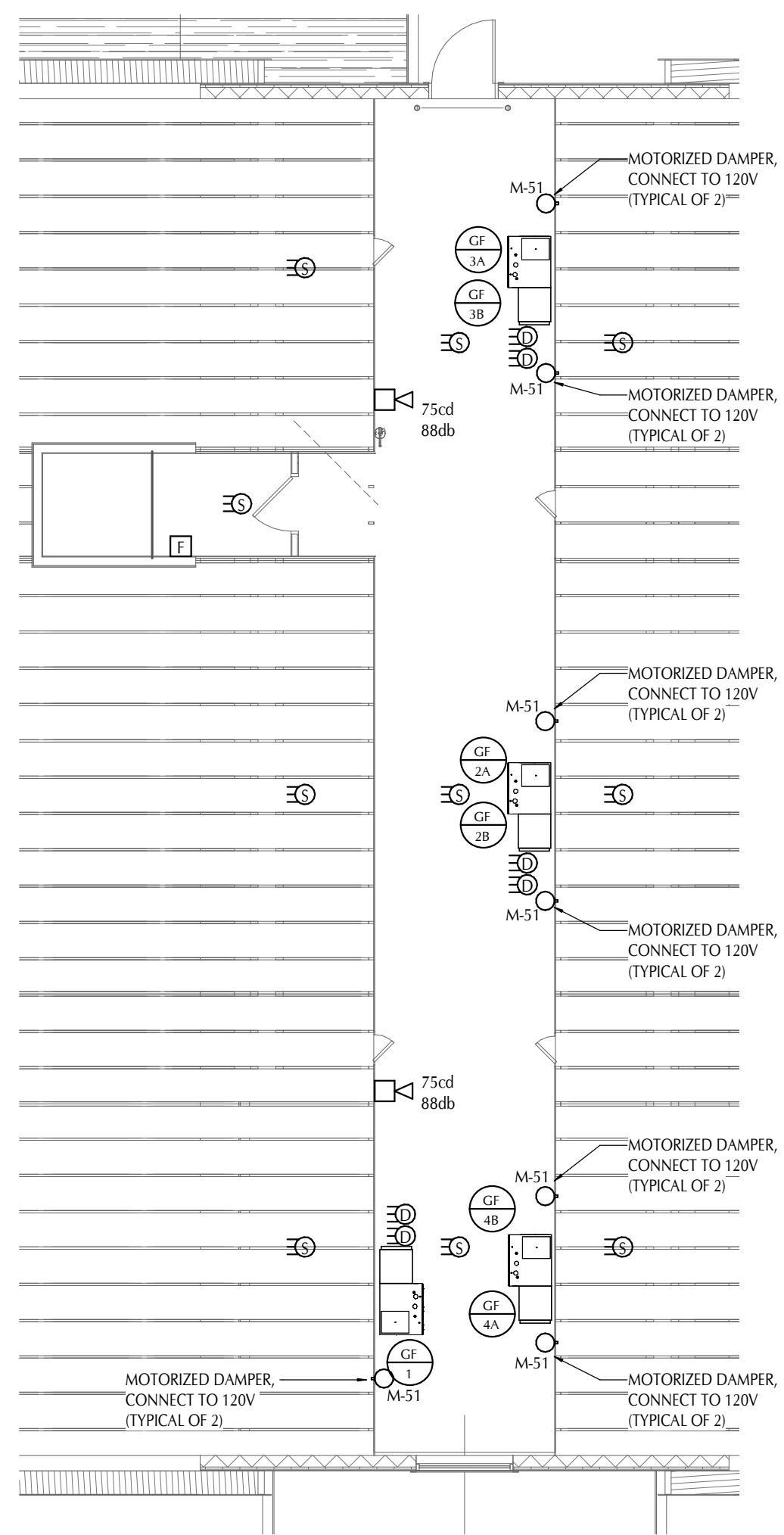
SHEET: E3.1

100% CONSTRUCTION DOCUMENTS

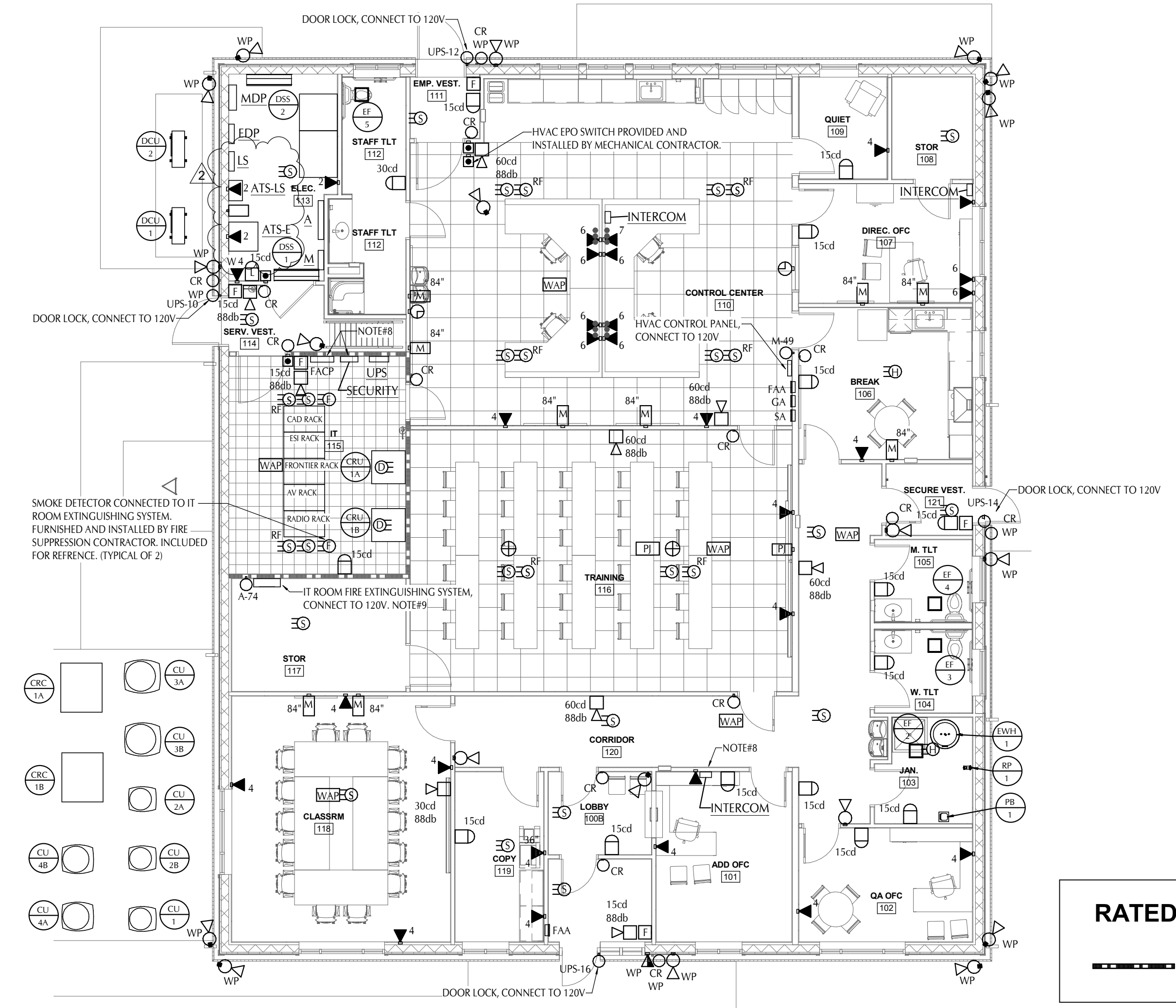
ITEM NO.	EQUIPMENT	EQUIPMENT CHARACTERISTICS				CIRCUIT NUMBER	FULL LOAD AMPS	CIRCUIT CONDUCTORS (COPPER UNLESS NOTED OTHERWISE)	BREAKER (TRIPPOLE)	LOCAL MEANS OF DISCONNECT (FRAME/POLE/USE/NEMA)	NOTES
		VOLTAGE	PHASE	HP	KW						
1	GF-1	120	1	1/2		M-1	9.8	3/4", 2#12, 1#12G	15A/1P	30A/1P HD, 15A RKS, NEMA 1	1,2,3,4
2	GF-2A	120	1	1/2		M-3	9.8	3/4", 2#12, 1#12G	15A/1P	30A/1P HD, 15A RKS, NEMA 1	1,2,3,4
3	GF-2B	120	1	1/2		M-5	9.8	3/4", 2#12, 1#12G	15A/1P	30A/1P HD, 15A RKS, NEMA 1	1,2,3,4
4	GF-3A	120	1	1/2		M-7	9.8	3/4", 2#12, 1#12G	15A/1P	30A/1P HD, 15A RKS, NEMA 1	1,2,3,4
5	GF-3B	120	1	1/2		M-9	9.8	3/4", 2#12, 1#12G	15A/1P	30A/1P HD, 15A RKS, NEMA 1	1,2,3,4
6	GF-4A	120	1	1/2		M-11	9.8	3/4", 2#12, 1#12G	15A/1P	30A/1P HD, 15A RKS, NEMA 1	1,2,3,4
7	GF-4B	120	1	1/2		M-13	9.8	3/4", 2#12, 1#12G	15A/1P	30A/1P HD, 15A RKS, NEMA 1	1,2,3,4
8	CU-1	208	1			M-19,21	9.0	3/4", 2#12, 1#12G	20A/2P	30A/2P HD, 20A RKS, NEMA 3R	1,2,3,4
9	CU-2A	208	1			M-21,25	9.0	3/4", 2#12, 1#12G	20A/2P	30A/2P HD, 20A RKS, NEMA 3R	1,2,3,4
10	CU-2B	208	1			M-27,29	9.0	3/4", 2#12, 1#12G	20A/2P	30A/2P HD, 20A RKS, NEMA 3R	1,2,3,4
11	CU-3A	208	3			M-14,16,18	16.9	3/4", 3#8, 1#10G	35A/3P	60A/3P HD, 35A RKS, NEMA 3R	1,2,3,4
12	CU-3B	208	3			M-20,22,24	16.9	3/4", 3#8, 1#10G	35A/3P	60A/3P HD, 35A RKS, NEMA 3R	1,2,3,4
13	CU-4A	208	3			M-31,33,35	12.2	3/4", 3#12, 1#12G	20A/3P	30A/3P HD, 20A RKS, NEMA 3R	1,2,3,4
14	CU-4B	208	3			M-37,39,41	12.2	3/4", 3#12, 1#12G	20A/3P	30A/3P HD, 20A RKS, NEMA 3R	1,2,3,4
15	CRU-1A	208	3	3/4		M-43,45,47	67.5	1-1/4", 3#2, 1#8G	90A/3P	180A/3P HD, 90A RKS, NEMA 1	1,2,3,4
16	CRU-1B	208	3	3/4		M-38,40,42	67.5	1-1/4", 3#2, 1#8G	90A/3P	180A/3P HD, 90A RKS, NEMA 1	1,2,3,4
17	CRU-1A	208	3			M-26,28,30	3.0	3/4", 2#12, 1#12G	15A/3P	30A/3P HD, 15A RKS, NEMA 3R	1,2,3,4
18	CRU-1B	208	3			M-32,34,36	3.0	3/4", 2#12, 1#12G	15A/3P	30A/3P HD, 15A RKS, NEMA 3R	1,2,3,4
19	EF-2,3,4	120	1			A-6	0.5	3/4", 2#12, 1#12G	20A/1P	MOTOR RATED SWITCH	1,2,3,4
20	EF-5	120	1			A-4	0.5	3/4", 2#12, 1#12G	20A/1P	MOTOR RATED SWITCH	1,2,3,4
21	EWH-1	208	1		4.5	M-10,12	21.6	3/4", 2#10, 1#10G	30A/2P	30A/2P HD, 30A RKS, NEMA 1	1,2,3,4
22	DCU-1, DSS-1	208	1			M-44,46	17.0	3/4", 2#10, 1#10G	25A/2P	30A/2P HD, 25A RKS, NEMA 3R	ALL
23	DCU-2, DSS-2	208	1			M-48,50	17.0	3/4", 2#10, 1#10G	25A/2P	30A/2P HD, 25A RKS, NEMA 3R	ALL
24	RP-1	120	1			M-4	2.0	3/4", 2#12, 1#12G	20A/1P	MOTOR RATED SWITCH	1,2,3,4
25	PB-1	120	1			M-6	9.0	3/4", 2#12, 1#12G	20A/1P	MOTOR RATED SWITCH	1,2,3,4

MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES:
 1. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT TO BE CONNECTED WITH NAMEPLATE DATA PRIOR TO ROUGH-IN.
 2. ALL DISCONNECTS LOCATED OUTDOORS SHALL BE WEATHERPROOF, NEMA 3R RATED, UNLESS SPECIFICALLY INDICATED OTHERWISE.
 3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FUSED DISCONNECTS WHERE SCHEDULED FOR EQUIPMENT SHOWN IN THIS LIST AND AS REQUIRED BY THE NEC.
 4. INTERNAL MEANS OF DISCONNECT SHALL NOT BE UTILIZED IN LIEU OF SPECIFIED EXTERNAL MEANS OF DISCONNECT EXCEPT WHERE THE WORD "INTEGRAL" APPEARS IN THIS SCHEDULE.
 5. DSS-1 AND DSS-2 ARE FED FROM OUTDOOR CONDENSER UNITS DCU-1 AND DCU-2

NOTES:
 1. PRIOR TO LOCATING ANY AND ALL DEVICES AT CASEWORK, COUNTERTOPS, ETC., THE ELECTRICAL CONTRACTOR SHALL REFER TO FINAL ARCHITECTURAL CASEWORK ELEVATIONS AND SHOP DRAWINGS TO VERIFY MOUNTING HEIGHTS AND LOCATIONS. ALL DEVICE LOCATIONS SHALL BE COORDINATED WITH THESE DRAWINGS AND/OR THE ARCHITECT PRIOR TO ROUGHING-IN.
 2. CONTRACTOR SHALL PROVIDE ALL REQUIRED BRANCH CIRCUIT RACEWAY AND CONDUCTORS FOR CONNECTION OF DEVICES SHOWN. WIRING MAY BE ROUTED OVERHEAD OR BELOW THE CONCRETE SLAB AT THE CONTRACTOR'S OPTION. ALL ABOVE SLAB RACEWAY SHALL BE CONCEALED FROM VIEW IN WALLS OR ABOVE THE CEILING EXCEPT WHERE SPECIFICALLY NOTED TO BE SURFACE MOUNTED. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR ALL 120V CIRCUITS. MINIMUM SIZE RACEWAY ROUTED BELOW CONCRETE SLAB SHALL BE 3/4" FOR POWER AND 1" FOR LOW VOLTAGE.
 3. BRANCH CIRCUIT WIRING: 120V, 20AMP CIRCUITS WITH HOMERUNS GREATER THAN 70' SHALL HAVE CIRCUIT CONDUCTORS OF #10AWG AS MINIMUM. ANY 120V, 20AMP CIRCUIT WITH OUTLETS GREATER THAN 100' OF BRANCH CIRCUIT LENGTH SHALL HAVE MINIMUM CIRCUIT CONDUCTOR OF #10AWG TO ALL OUTLETS AND HOMERUNS. ANY 120V, 20AMP CIRCUIT WITH HOMERUN GREATER THAN 140' SHALL HAVE BRANCH CIRCUIT CONDUCTOR OF #8AWG MINIMUM. PROVIDE ADEQUATE BOX FOR SPLICING #12AWG TO TERMINATE TO DEVICE.
 4. ALL FIRE ALARM WIRING SHALL BE IN CONDUIT WITH MINIMUM SIZE TO BE 3/4".
 5. ALL REQUIRED DOCUMENTATION REGARDING THE DESIGN OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS AND THE PROCEDURES FOR MAINTENANCE, INSPECTION, AND TESTING OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS SHALL BE MAINTAINED AT AN APPROVED, SECURED LOCATION FOR THE LIFE OF THE SYSTEM.
 6. THE FIRE ALARM CONTRACTOR MUST BE CERTIFIED IN ACCORDANCE WITH THE NORTH CAROLINA ALARM CONTRACTORS LICENSING.
 7. PROVIDE EXTERNAL 24VDC BATTERY CABINETS WITH CHARGERS AS REQUIRED TO ACHIEVE THE REQUIRED SYSTEM BATTERY CAPACITY. PROVIDE 20 AMPERE 120 VAC POWER TO EACH REQUIRED CABINET VIA A DEDICATED CIRCUIT. PROVIDE BRANCH CIRCUIT BREAKER WITH A RED HANDLE AND A LOCK-ON DEVICE TO PREVENT SHUT-OFF. LOCATE CABINETS IN UTILITY SPACES IN THE BUILDING, OUT OF SIGHT OF NORMAL OCCUPANTS.
 8. PROVIDE COMPLETE FIRE ALARM SYSTEM WITH ALL NECESSARY ROUGH-INS, DEVICES, CABLING AND TESTING. ALTERNATE #4 PREFERRED VENDOR CONTACT FOR FIRE ALARM SYSTEM: TRISTATE LIFE SAFETY 70 HOLIDAY DR. MURPHY, NC 828-835-3366
 9. PROVIDE FIRE ALARM SYSTEM CONNECTION TO IT ROOM FIRE ALARM EXTINGUISHING SYSTEM FOR MONITORING. FIRE ALARM SYSTEM SHALL NOT ACTIVATE SUPPRESSION SYSTEM. CONNECT TO UPS TO SHUT DOWN BATTERIES UPON ACTIVATION OF EXTINGUISHING SYSTEM.



2 MECH PLATFORM PLAN - COMMUNICATIONS & HVAC WIRING
1/8" = 1'-0"



1 FLOOR PLAN - COMMUNICATIONS & HVAC WIRING
1/8" = 1'-0"

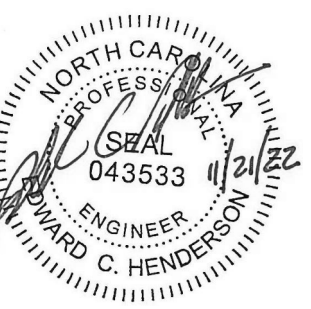
RATED WALLS LEGEND
 1 HR. RATED FIRE BARRIER

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Δ	DATE	DESCRIPTION
2	12-19-2022	Addendum 2

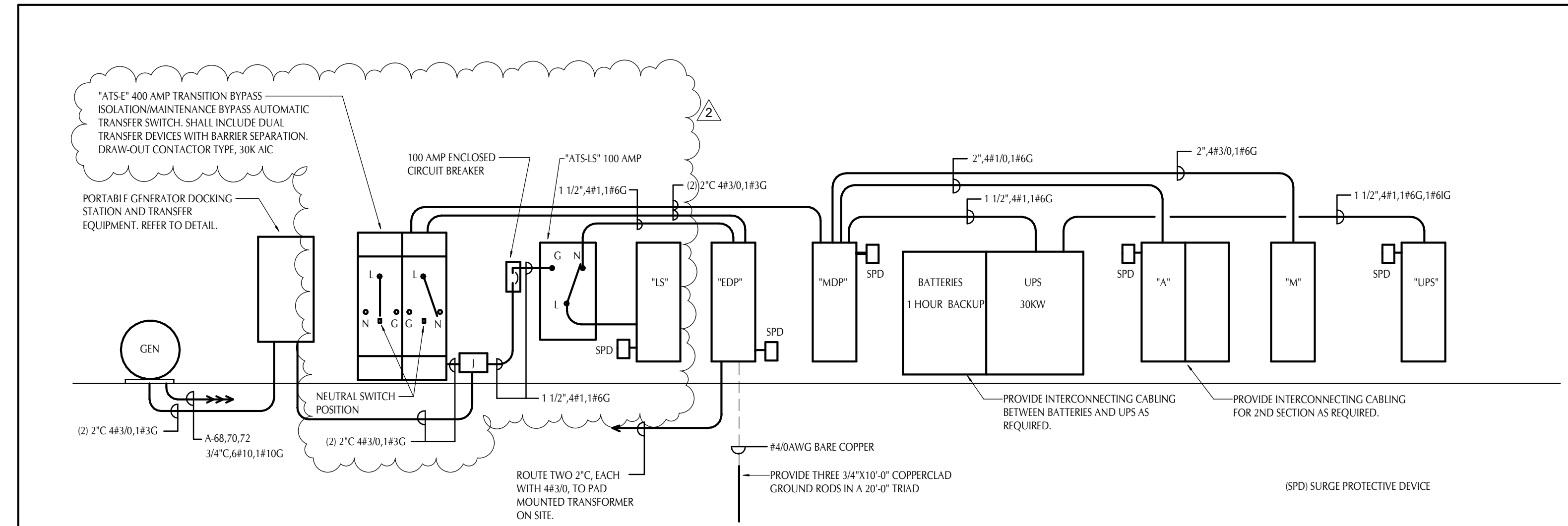
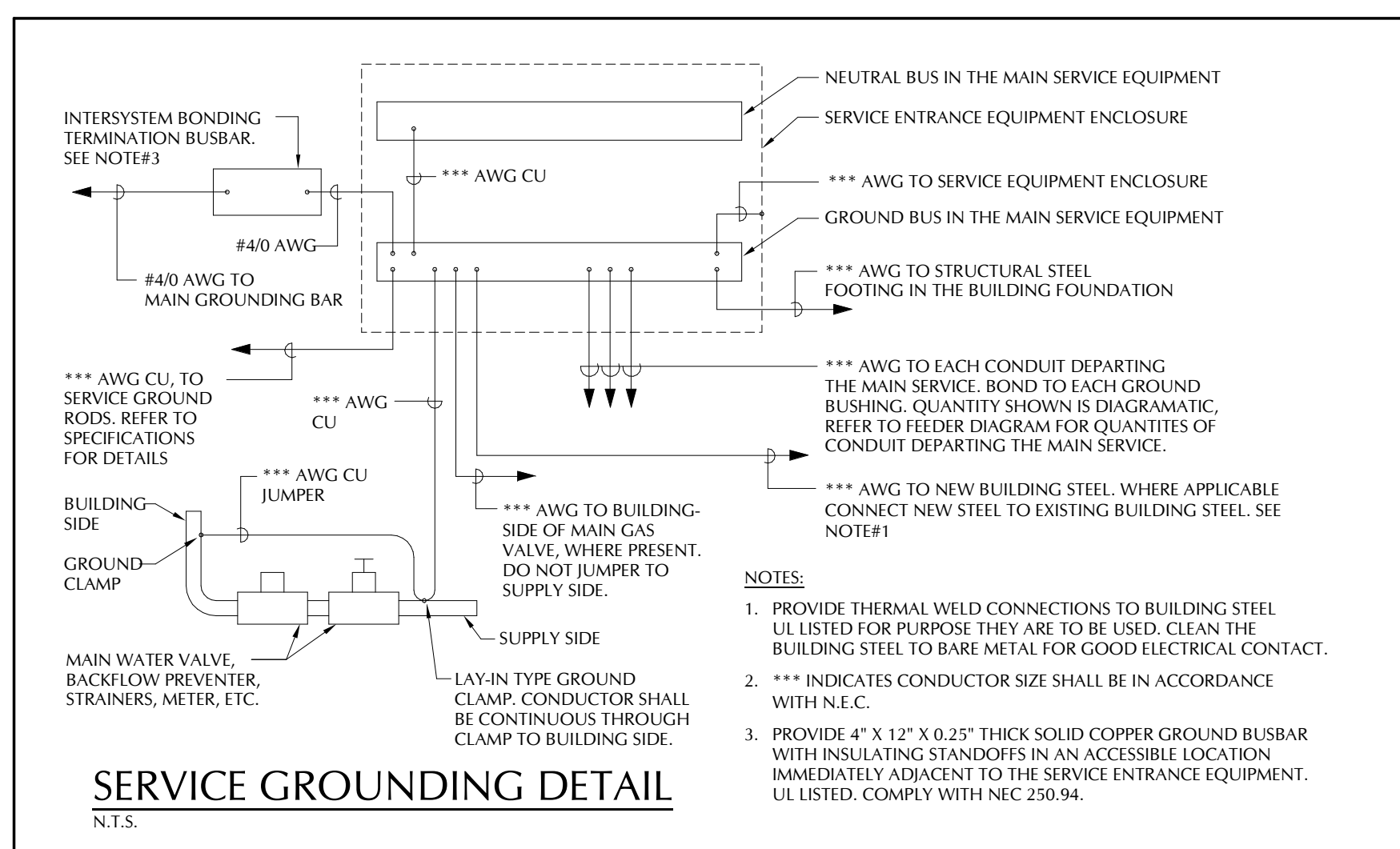
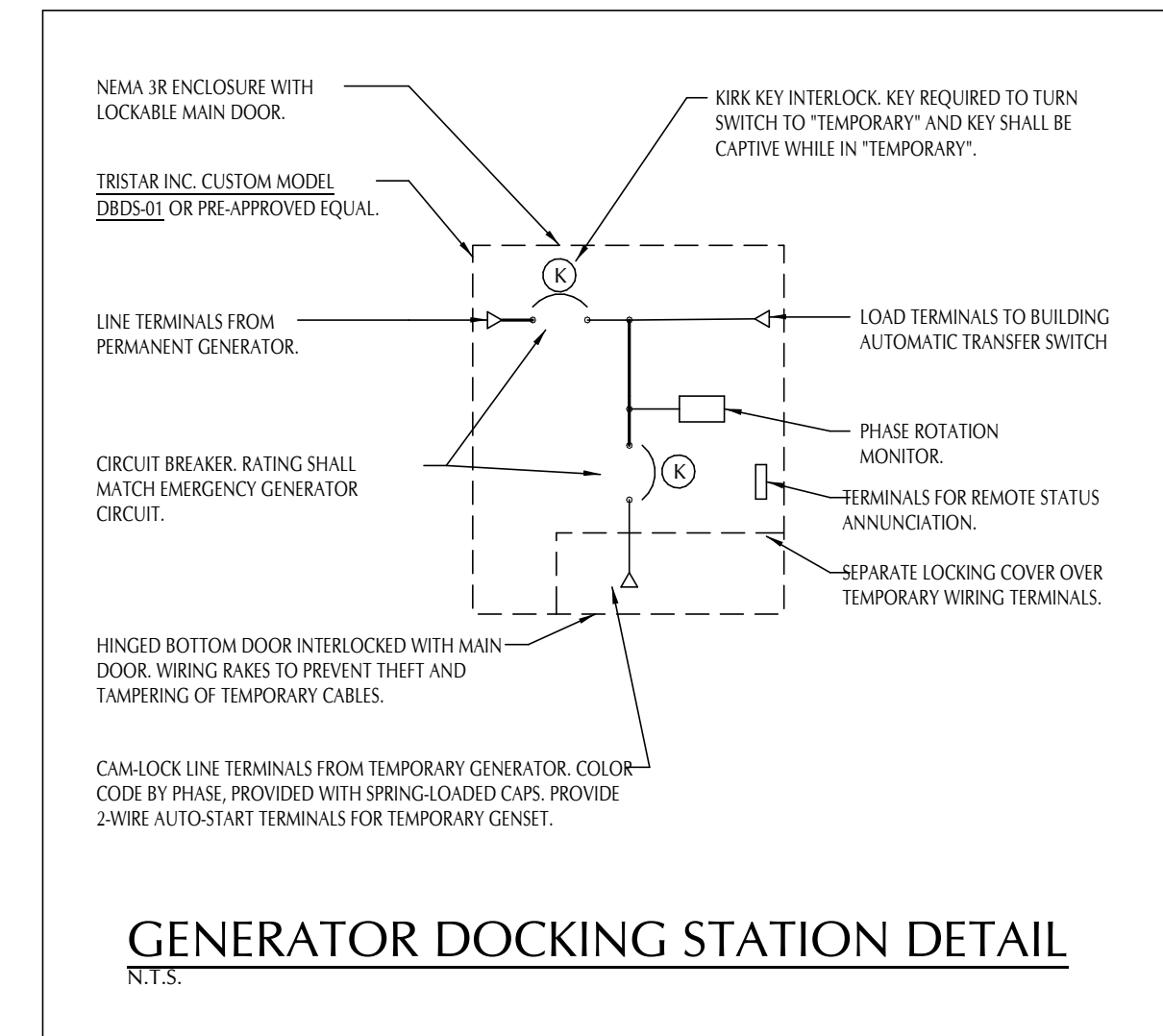
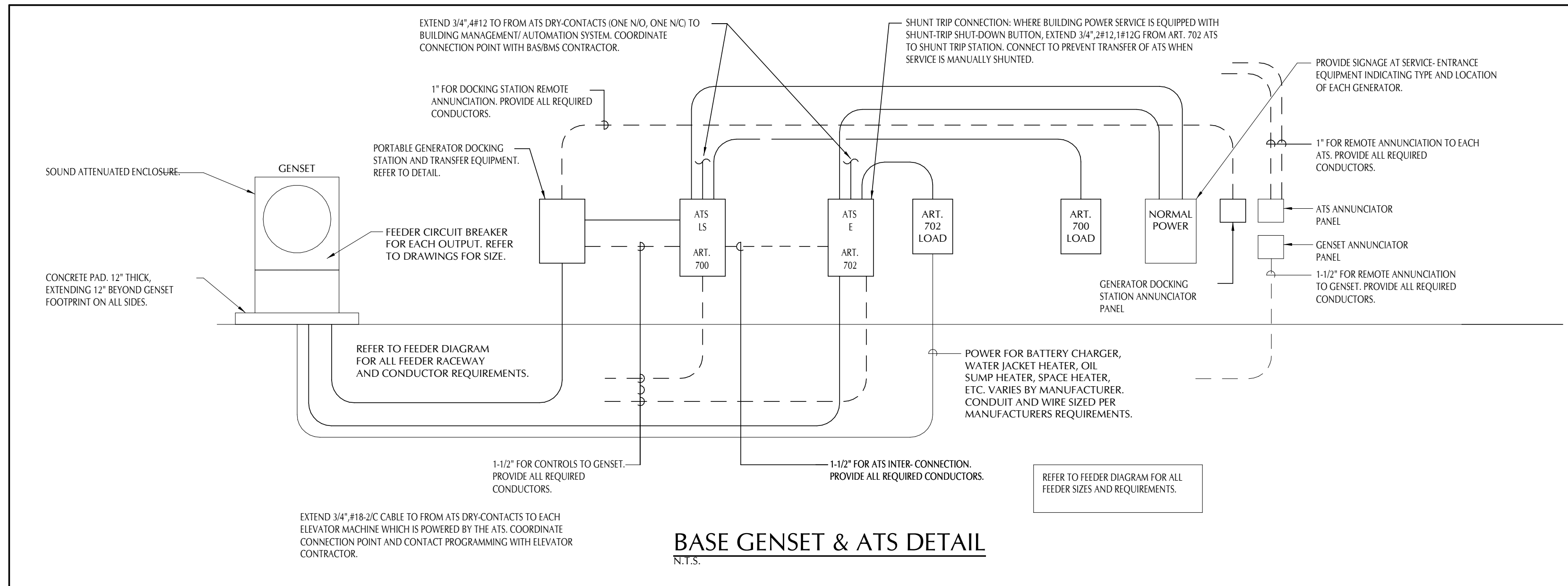
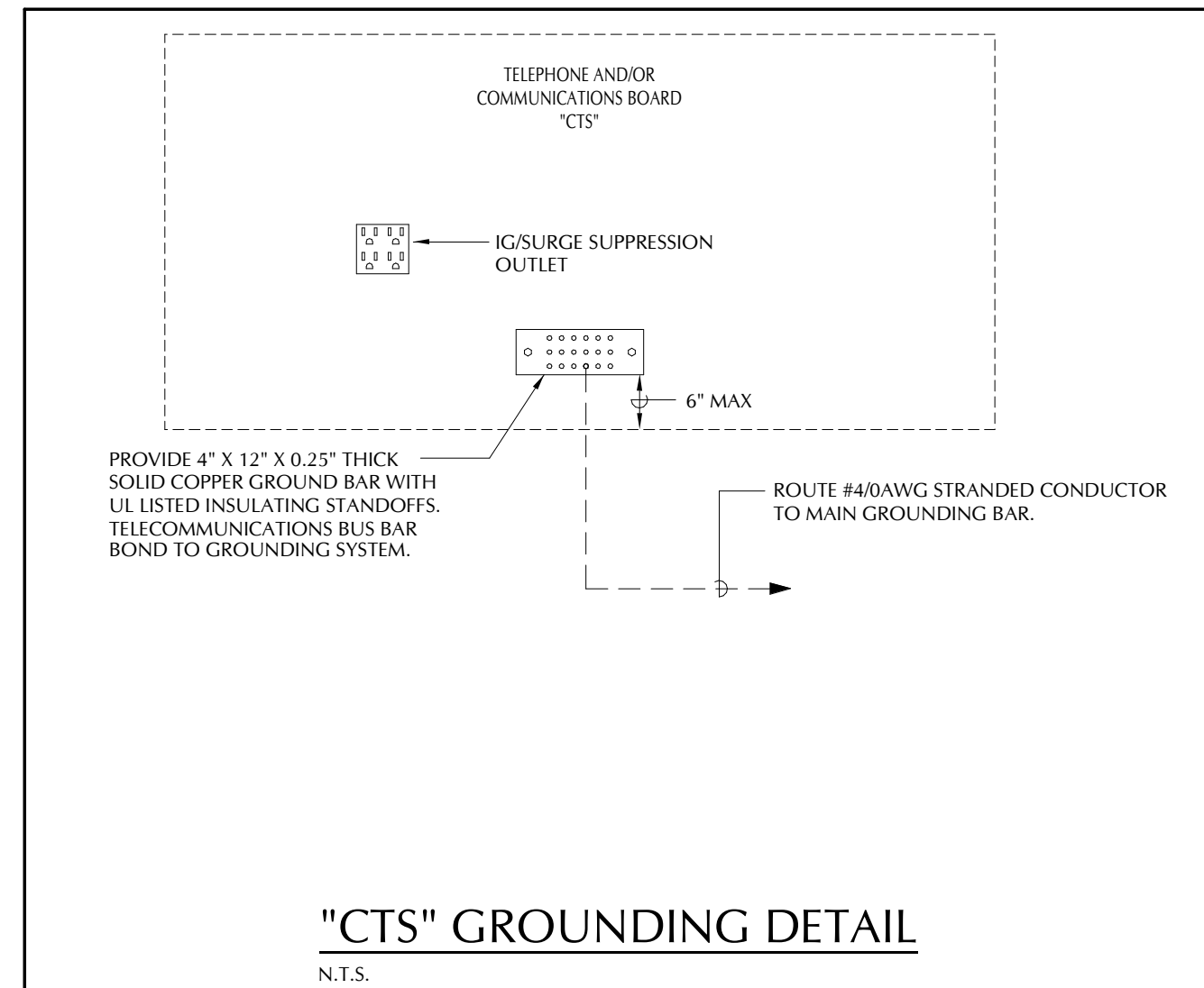
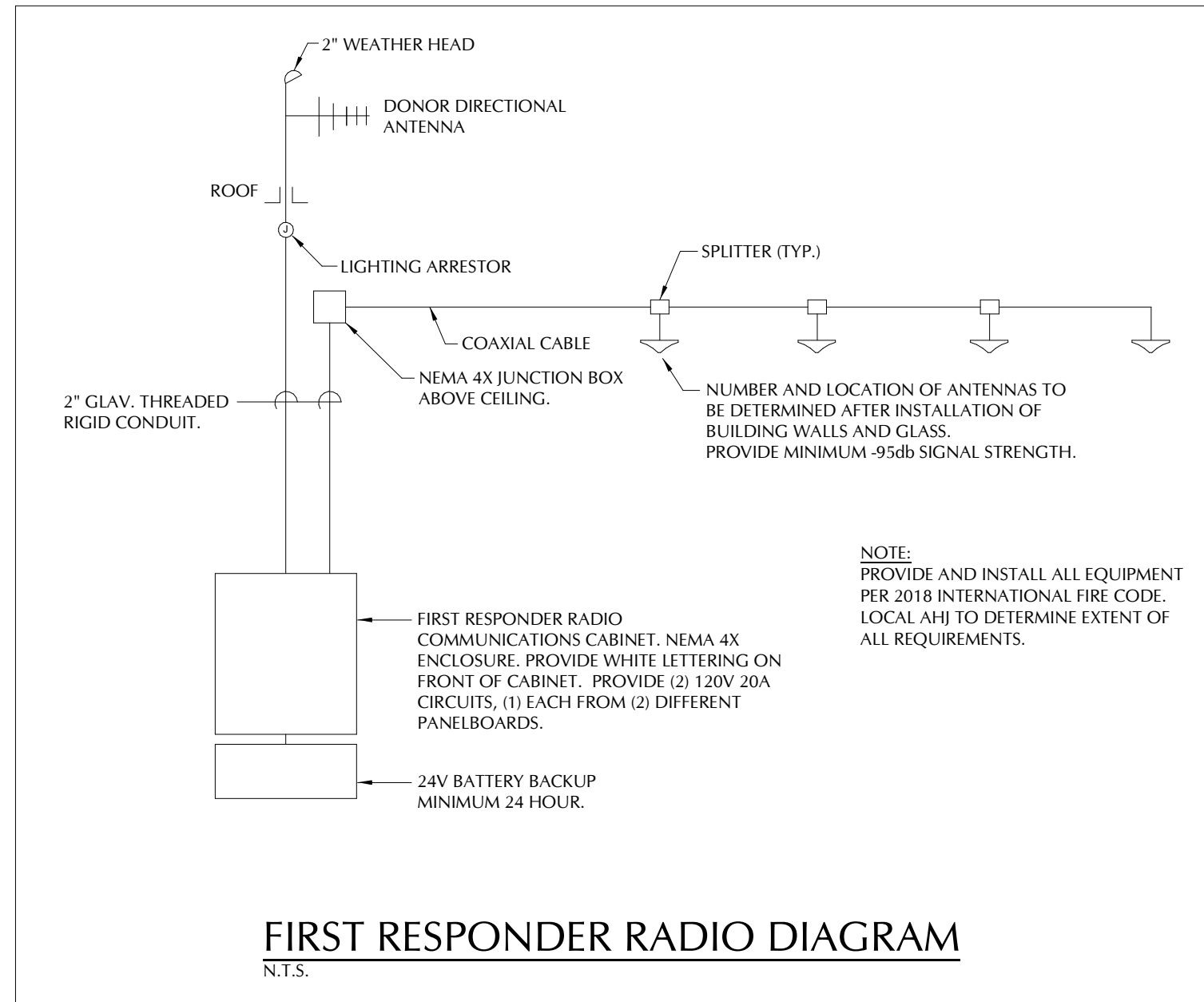
SHEET NAME:
FEEDER DIAGRAM

ORIG SUBMISSION: 11/21/22

SHEET: E5.1

PANELBOARD MDP SCHEDULE									
VOLTAGE: 208Y120V, 3 PHASE, 4 WIRE		MAIN TYPE/RATING: 400 A MCB		MOUNTING: Surface		FED FROM: ATS-E			
BUS SIZE: 400 A		FAULT DUTY: 17,867 AIC		ENCLOSURE: NEMA 1		LOCATION: ELEC. 113			
CKT	Load Name	Trip	Pole	A	B	C	Pole	Trip	Comments
1				12.5 kVA / 10.8...					
3	PANEL "A"	150 A	3		11.7 kVA / 6.8 kVA		3	125 A	UPS SWITCH
5						15.7 kVA / 8.3 kVA			
7				0 kVA / 33.3 kVA					
9	SPARE	125 A	3		0 kVA / 32.8 kVA		3	200 A	PANEL "M"
11						0 kVA / 31.5 kVA			
13	SPACE	--	--	0 kVA / 0 kVA			--	--	SPACE
15	SPACE	--	--		0 kVA / 0 kVA		--	--	SPACE
17	SPACE	--	--			0 kVA / 0 kVA	--	--	SPACE
19				0 kVA / 0 kVA					
21	FEED THRU LUGS	0 A	3		0 kVA / 0 kVA		3	30 A	SURGE PROTECTIVE DEVICE
23						0 kVA / 0 kVA			
				PHASE TOTALS			SP SURGE PROTECTIVE PROTECTIVE VIA CIRCUIT BREAKER		
				A	B	C			
				56.6 kVA	51.3 kVA	55.5 kVA			
				TOTAL CONNECTED LOAD: 163.3 kVA = 453.4 A					

PANELBOARD EDP SCHEDULE									
VOLTAGE: 208Y120V, 3 PHASE, 4 WIRE		MAIN TYPE/RATING: 400 A MCB		MOUNTING: Surface		FED FROM:			
BUS SIZE: 400 A		FAULT DUTY: 18,972 AIC		ENCLOSURE: NEMA 1		LOCATION: ELEC. 113			
CKT	Load Name	Trip	Pole	A	B	C	Pole	Trip	Comments
1				1.2 kVA / 0 kVA					
3	ATS-LS	100 A	3		0.6 kVA / 0 kVA		3	100 A	SPARE
5						0.5 kVA / 0 kVA			
7				56.6 kVA / 0 kVA					SPACE
9	ATS-E	400 A	3		51.3 kVA / 0 kVA				SPACE
11						55.5 kVA / 0 kVA			SPACE
13				0 kVA / 0 kVA					
15	PROVISION ONLY WITH MOUNTING HARDWARE	400 A	3		0 kVA / 0 kVA		3	30 A	SURGE PROTECTIVE DEVICE
17						0 kVA / 0 kVA			
				PHASE TOTALS			SURGE PROTECTIVE DEVICE VIA CB		
				A	B	C			
				57.7 kVA	51.9 kVA	56.0 kVA			
				TOTAL CONNECTED LOAD: 165.6 kVA = 459.6 A					



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ADDENDUM 3

Date of Addendum: January 17, 2023

Project Name: Clay County 911 Center

PROJECT INFORMATION

- A. Owner: Clay County NC Government
- B. Architect: LS3P
- C. Architect Project Number: 0701-211165

NOTICE TO BIDDERS

- A. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.
- B. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.

ATTACHMENTS

- A. This Addendum includes the following attached Documents and Specification Sections:
Section 00 3132, amended with new supplemental report.

REVISIONS TO THE PROJECT MANUAL

Item III-1 The Report of Supplemental Geotechnical Exploration by Hand Auger, attached, supplements the Geotechnical Data found at Section 00 3132 in the Project Manual with data on two additional boring locations.

Item III-2 Section 09 3000 Tiling Assemblies: Delete paragraph 2.3.C from the manual. Two wall tile assemblies are listed at paragraph 3.4.A; one utilizes cementitious backer units, and the other glass-mat faced backer board. Either assembly will be acceptable for areas requiring wall tile, except at the shower, Staff Tlt 112. The wall and floor tile for the shower at Staff Tlt 112 shall be installed per TCNA assembly B415 as described at paragraph 3.4.C. The shower (both floor and walls) is the only area where epoxy grout is required. The floor at the shower shall slope to drain, and the tile on setting bed at the edge of the depressed floor shall be level with the adjacent thinset tile – there is to be no curb.

Item III-3 Section 09 3000: Add the following to paragraph 2.8.B:

1. Manufacturers: Schluter, Custom Building Products, TrimMaster.
2. Basis of Design trim for junction of straight base or wall tile with floor tile, cove base: Schluter Dilex-AHK.
3. Basis of Design edging for outside corners, exposed top of wall tile: Schluter Jolly.

Item III-4 Section 09 3000: Delete paragraph 3.3.G from the manual. Sweep outs are not required.

REVISIONS TO DRAWING SHEETS

Item III-5 Sheet A1.2: At the enlarged plan for Staff Tlt 112, remove the F26 designation at the east wall of Staff Tlt 112 (the wall that backs onto Serv. Vest. 114). The wall finish for this entire wall is #23. Revise the Finish Material Legend as follows:

4 Porcelain Tile PRT-1 Thin Set: FloridaTile Rhyme, 12" x 24".

5. Porcelain Tile PRT-1 on Setting Bed: (at shower in Staff Tlt 112 only): FloridaTile Roman Mosaic Blend.

12. Porcelain Tile PRT-2 – Bullnose to match PRT-1: FloridaTile Rhyme 3" x 12". Required in all locations where tiled floor abuts non-tiled wall.

23. Porcelain Tile PRT-3 Over Tile Backer Board: FloridaTile Rhyme, 3.75" x 12".

CLARIFICATIONS

Item III-6 Shower, Slab Depression: There is a 2" depression at the shower in Staff Toilet 112 that is not shown on the Foundation Plan at Sheet S1.0. The depression shall be located and dimensioned as shown on the architectural Slab Plan at Sheet A1.1.

Item III-7 Form of Proposal: There is no requirement for a Grading Contractor working under a General Contractor who holds an unlimited license to hold their own license, but there is a space to record a number on the Form of Proposal if they do hold a license. Please insert "NA" on this line for "not applicable" if appropriate.

MANUFACTURER SUBSTITUTIONS

Item III-8 The following manufacturers have been submitted for consideration as equals for the products noted. The status of each of the submitted products is noted below. Products and manufacturers approved below shall in all respects meet the requirements of the specifications and the drawings. Approval of the product or manufacturer is no way relieves the manufacturer, supplier or contractor of their obligation to meet those requirements.

Disapproved

10 5123 Plastic Laminate Clad Lockers

Scranton HDPE Tuftec Lockers

END OF ADDENDUM 3

December 19, 2022

Ms. Amy Dowty
LS3P
2 W Washington St Ste 600
Greenville, SC 29601

amydowty@ls3p.com

Re: **REPORT OF SUPPLEMENTAL GEOTECHNICAL EXPLORATION
BY HAND AUGER**
Clay County 911 Center
Hayesville, North Carolina
BLE Project Number J22-17971-02

Dear Ms. Dowty:

Bunnell-Lammons Engineering, Inc. (BLE) is pleased to submit this report of our supplemental explorations as you requested in your email correspondence of October 19, 2022 and October 25, 2022. The following presents the verbiage in our original report with additional observations annotated in *italics*.

Site Conditions

Site conditions were *originally* observed by BLE personnel while marking soil boring locations as part of the *original* geotechnical exploration. The site generally consists of a paved parking area with curb and gutter systems and catch basins primarily on the western portion of the site. Asphalt conditions appeared to be stable with no notable cracks or deviations in the subgrade. A large drainage area for site stormwater was noted on the western side of the site as well. The topography indicated that the overflow parking area within the newly proposed site was terraced and appeared to contain variable depths of fill from analysis of surrounding features and study of GIS mapping.

Subsurface Conditions

Surface Cover

The surface cover at all boring locations consisted of a surface course of asphalt at a *2-inch to 4-inch thickness* underlain by a *base course of ABC stone of up to 8 inches in thickness*.

Fill

Soil interpreted as fill was observed in all five *original* borings to a depth of 5 to 7.5 feet. *The supplemental borings encountered no fill (HB-1) ranging to almost 7 feet of fill (HB-2)*. Fill material can be defined as soils that were placed and not deposited by natural means. Fills were observed to be variable in soil classifications including silty sands (SM), clayey silts with fine sands (ML), poorly graded sands (SP) and micaceous silts (with slight plasticity) to fine sands (MH). Standard Penetration

Test (SPT) values for this material were between 6 and 13 blows per foot (bpf), indicating a loose to firm consistency. *The fill in the supplemental boring (HB-2) was tested using the Dynamic Cone Penetrometer (DCP) which indicated a similar range of consistency as that in the original borings on the order of 5 to 10 blows per increment.*

Residuum

Residual soil typical of the Blue Ridge Physiographic Province was encountered below the fill layer in all *original* borings to depths of up to 50 feet. Residual soils are defined as those that are found in place and formed by weathering of underlying material(s). The residual soils were variable in composition ranging from silty sands to sandy silts with small rock fragments interspersed. SPT values ranged from 5 to 50/6 bpf, indicating a loose to very dense consistency and typically becoming firmer with depth. *The supplemental borings encountered residual soil of the same classification and consistency with DCP resistance in the teens (17 blows per increment).*

Partially Weathered Rock (PWR)

PWR was encountered in *original* boring B-1 at a depth of 45 feet. PWR is a transitional, intermediate material between the residual soil and rock, and is defined for engineering purposes as residual material having an SPT resistance value greater than 50 blows per 6 inches, or 100 bpf. The PWR was sampled as a micaceous, gray to fine silty sand (SM). No auger refusals were encountered in any soil test boring. *Both supplemental borings encountered PWR at depths ranging from 4 feet to 7 feet below existing ground surface.*

Groundwater

Groundwater was not encountered for all boring locations at the time of drilling. It is to be considered; however, that seasonal ground water tables are typically highest in the winter and spring months. The hazard of leaving open bore holes in an area of common foot traffic was considered when closing these bore holes prior to the normal 24-hour period to allow for stabilization of the groundwater level.

The above descriptions provide a general summary of the subsurface conditions encountered. The attached Boring Logs contain detailed information recorded at each boring location. The Boring Logs represent our interpretation of the field logs based on engineering examination of the field samples. The lines designating the interfaces between various strata represent approximate boundaries and the transition between strata may be gradual. It should be noted that the soil conditions will vary between boring locations. The letters in parentheses represent a visual classification of the soils in accordance with the Unified Soil Classification System. A key to symbols and classification is also attached.

ANALYSIS AND SUPPLEMENTAL DESIGN RECOMMENDATIONS

It is anticipated that site grading can generally be accomplished using conventional construction approaches and standard building practices. Provided the building loads do not exceed that outlined in this report, that the in-situ conditions are accurately represented by the soil test borings, and that foundation bearing soils are closely evaluated by BLE during construction, it is anticipated that a shallow foundation system can be used to support the buildings.

The soils within the depth of interest generally consist of fill material overlying residual soil *and PWR*. Fills encountered during time of drilling are considered undocumented. *As originally reported* BLE recommends that existing fill soils be undercut and replaced under all footings and at least partially under floor slabs. BLE further recommends that an allowance be budgeted to undercut and replace some of the existing fill. *The supplemental borings indicate similar ratios of fill and residuum, and the original recommendations are not changed by the supplemental data.* For a monolithic concrete slab with thickened perimeter and interior portions, the undercut depth should be at a minimum equal to the width of the thickened perimeter at the deepest portion of the foundation. For individual column and continuous wall footings, the undercut depth should be at a minimum equal to the width of the foundation. If deleterious material is found at either of these depths, then further undercutting may be required. These areas should then be backfilled with approved structural fill, compacted to 95% of Standard Proctor Maximum Dry Density. As a construction expedient, deeper undercut area, such as below footings, may be backfilled with select materials such as compacted aggregate base course (ABC stone) or dense-graded aggregate.

Foundations

Provided the recommendation outlined herein are followed, we recommend an allowable bearing capacity of 2,500 psf be used when designing foundations. We recommend that the minimum widths for individual column and continuous wall footings be 24 and 18 inches, respectively. The minimum widths are considered advisable to provide a margin of safety against a local or punching shear failure of the foundation soils. Exterior/perimeter footings should bear at least 30 inches below final exterior grade for embedment needed to develop the recommended allowable design bearing pressure range and to provide frost protection.

The same protective embedment recommended for the interior and exterior footings should be used for the thickened perimeter and interior portions of a monolithic foundation slab, if such a slab is used in lieu of individual strip and spread footing foundations.

Exposure to the environment may weaken the soils at the bearing level if the foundation excavations remain open for long periods of time. Therefore, we recommend that, once the excavation is extended to final grade and the foundation bearing soils have been examined, the footing should be constructed as soon as possible thereafter to minimize the potential for damage to the bearing soils. The foundation bearing area should be level or benched and free of loose soil, ponded water, and debris. Foundation concrete should not be placed on soils that have been disturbed or softened. If the bearing soils are disturbed or softened by surface water intrusion, exposure and/or freezing, the disturbed or softened soils must be removed from the foundation excavation bottom prior to placement of concrete. If the excavation must remain open overnight or if rainfall becomes imminent while the bearing soils are exposed, we recommend placement of a 2 to 4-inch thick "mud-mat" of "lean" (2,000 psi) concrete on the bearing soils before the placement of reinforcing steel for protection against softening from exposure. We recommend that foundation excavations be observed and tested by an experienced engineering technician working under the direction of the BLE geotechnical engineer.

Grade Slab Subgrade

The grade slab may be soil-supported assuming that the site is prepared in accordance with the recommendations of this report. It is recommended that the slab on grade be uniformly supported on a layer of aggregate base course, as specified in the North Carolina Department of Transportation Standard Specifications for Roads and Structures, 2018 Edition. The aggregate base course layer should have a minimum thickness of at least 6 inches and be compacted to at least 98 percent of its standard Proctor maximum dry density. Based on previous experience with similar soils, a maximum modulus of subgrade reaction (k) equal to 100 pounds per cubic inch should be used for design of slabs on properly prepared subgrades supported by an adequate depth of base coarse. A vapor barrier should be included below the slab if vapor penetration is not acceptable. The need for a vapor barrier is also dependent on the floor covering type. Floor slabs supported on grade which will be carpeted, tiled, painted, or receive some other covering or sealant should incorporate a vapor barrier. The vapor barrier should be installed in accordance with the manufacturer's recommendations.

Completed slabs should be protected from excessive surface moisture prior to and during periods of prolonged, below-freezing temperatures to prevent subgrade freezing and resulting heave. The slab subgrade area should be evaluated by BLE prior to placement of crushed stone.

The grade slab should be jointed around columns and along footing supported walls so that the slab and foundations can settle differentially without damage. This jointing is not required when slabs and foundations are cast as a single unit (i.e. thickened edge foundations). If slab thickness permits, joints containing dowels or keys may be used in the slab to permit movement between parts of the slab without cracking or sharp vertical displacements.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Firm Registration # C-1538

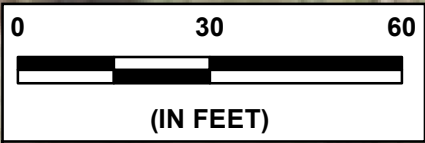
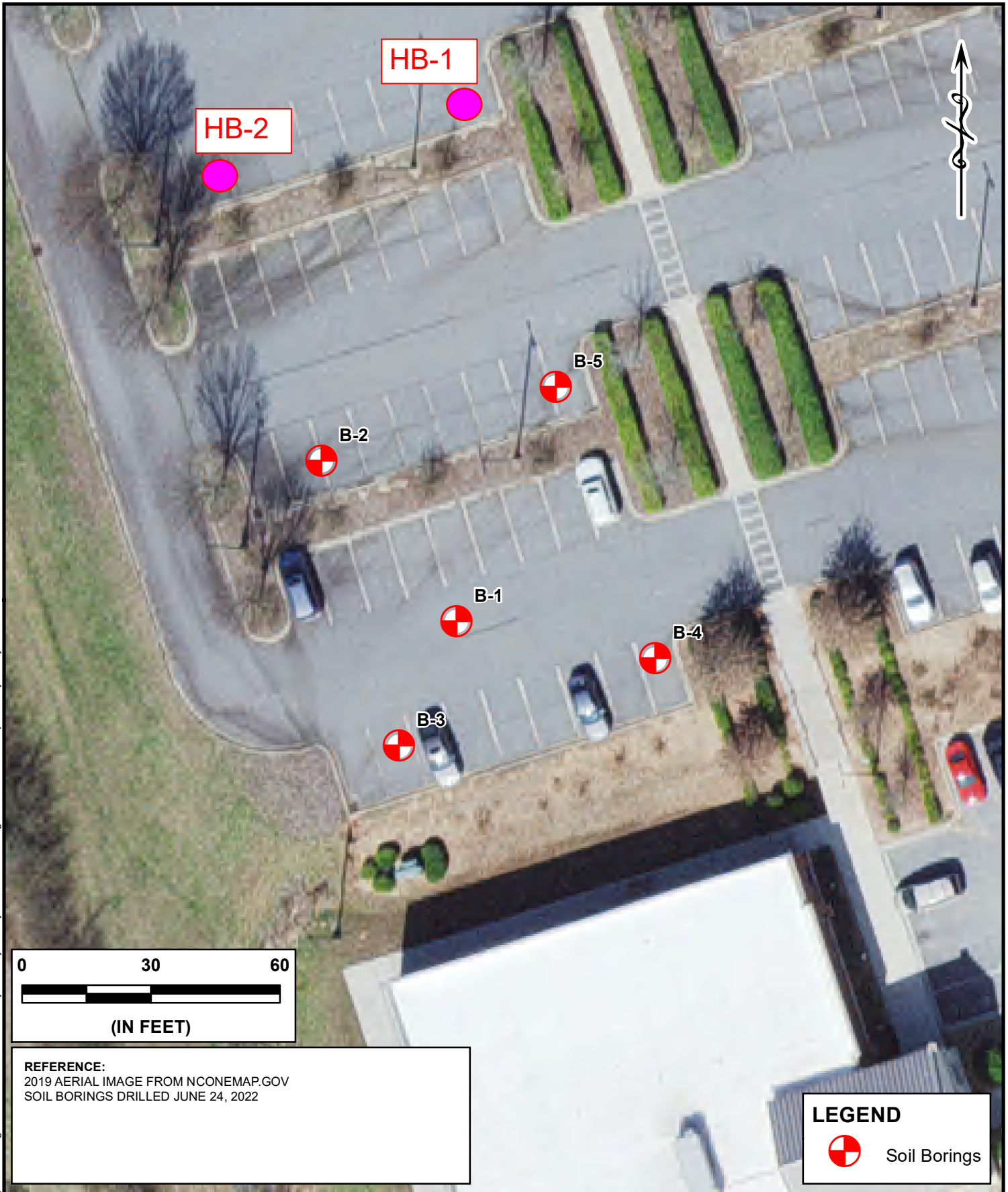


James J. Belgeri, P.E.
Senior Engineer




Tim Woodcock
Project Manager

Drawing Path: \\blegvlfs1\CAD\GIS\Asheville Projects\Clay County\911 Center\Boring Location Plan.mxd plotted by kelsey.cahill 07-08-2022



REFERENCE:
 2019 AERIAL IMAGE FROM NCONEMAP.GOV
 SOIL BORINGS DRILLED JUNE 24, 2022

LEGEND
 Soil Borings



SOIL BORING LOCATION MAP

GEOTECHNICAL INVESTIGATION
 CLAY COUNTY 911 CENTER
 119 COURTHOUSE DRIVE, HAYESVILLE
 CLAY COUNTY, NORTH CAROLINA

SCALE:
 1" = 30'
 DATE:
 12-19-22
 PROJECT NO.:
 J22-17971-01
 PREPARED BY: KLC
 REVIEWED BY: CM
 APPROVED BY: CM

FIGURE NO.
1

ADDENDUM 4

Date of Addendum: January 26, 2023

Project Name: Clay County 911 Center

PROJECT INFORMATION

- A. Owner: Clay County NC Government
- B. Architect: LS3P
- C. Architect Project Number: 0701-211165

NOTICE TO BIDDERS

- A. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.
- B. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.

ATTACHMENTS

- A. None.

REVISIONS TO THE PROJECT MANUAL

Item IV-1 Section 07 3113: Delete paragraph 2.3.C. The ice and water shield specified at 2.3.B is the only required underlayment.

Item IV-2 Section 07 4113 (see Addendum 2): At 2.4.A.3, add Titanium PSU 30 to the list of acceptable products.

Item IV-3 Section 09 6500: At paragraph 2.3.A, basis of design shall be StaticWorx EC Rubber in lieu of Architectural EC Rubber. The latter is not available in the specified 24 x 24-inch tiles.

Item IV-4 Section 10 5123 Plastic-Laminate Clad Lockers: Add the following after paragraph 2.2.A.5:

1. Subject to compliance with requirements, acceptable locker manufacturers include, but are not limited to, Hollman, Ideal and Salsbury Industries. Wood grain laminate patterns will be required for consideration.

REVISIONS TO DRAWING SHEETS

Item IV-5 Sheet C-106: Site plans call for two buried LP tanks at the west end of the site; one 1,000-gallon tank and one 2,000-gallon tank. The Contractor may provide and install two 1,000-gallon tanks, cross-piped together, in lieu of the 2,000-gallon tank, for a total of three 1,000-gallon tanks. The tanks must be installed within the area defined by the limits of disturbance, accessible to fuel trucks, and without compromising the other planned underground utilities.

Item IV-6 Sheets A4.0, A4.1: Delete references to Titanium UDL 30 at the roof decks. Only one underlayment is required at the roof, Titanium PSU 30 or equal.

Item IV-7 Sheet P4.1, Booster Pump. Add Item PB-1 to the Plumbing Fixture Schedule on E4.1 as follows: Item PB-1 Pressure Booster Pump, Grundfos 98548116 CMBE 5-62-I-U-C-E-D-F 2HP 1ph 208v Simplex Pressure Booster Pump rated for 25gpm @ 60psi. Included 2gal. expansion tank, 3427rpm. Additional acceptable manufacturers are Armstrong and Zoeller. Refer to Sheet P2.1 for pump location at Jan 103.

Item IV-8 Sheet E3.1, Mechanical Equipment Connection Schedule: At Item 25, revise voltage to 208/1. Circuit number changes to M-15,17. Circuit breaker changes to a 25/2p. Full load amps remain as is. Conductors remain as is. The motor rated switch changes to a 2 pole.

Item IV-9 Sheet E5.2, Panelboard M Schedule: Circuit M-6 will become a spare. 20/1p circuit breaker will remain. Remove 2-20/1p circuit breakers in spaces M-15,17. Add new 25/2p circuit breaker in spaces M-15,17.

CLARIFICATIONS

Item IV-10 Section 01 2300 & Section 26 0533, EMT Fittings: Base Bid EMT fittings shall permit steel set screw type in dry locations. Alternate #3 shall require all EMT fittings to be steel compression type. Die-cast fittings shall not be utilized.

Item IV-11 Sheet C-102: The landscape boulders designated in front of the new building shall be angular quarried granite boulders, minimum 24" height, width, and depth.

MANUFACTURER SUBSTITUTIONS

Item IV-12 The following manufacturers have been submitted for consideration as equals for the products noted. The status of each of the submitted products is noted below. Products and manufacturers approved below shall in all respects meet the requirements of the specifications and the drawings. Approval of the product or manufacturer is no way relieves the manufacturer, supplier, or contractor of their obligation to meet those requirements.

Approved

07 3113, 07 4113 Underlayment HT (40 mil), GCP Applied Technologies

Disapproved

07 3113, 07 4113 Underlayment Select HT (25 mil), GCP Applied Technologies

END OF ADDENDUM 4

NOTICE TO BIDDERS

Single Prime sealed proposals will be received by **Clay County NC Government** (“Owner”) at the **Office of the County Manager** located at **345 Courthouse Dr., Hayesville, NC 28904** on **Thursday, January 12, 2023**, no later than **2:00 PM**, for the **Clay County 911 Center** project in Hayesville, NC.

Sealed bid packages delivered or mailed before the bid date shall be sent to:
Mrs. Debbie Mauney, Clay County Manager
345 Courthouse Dr.
Hayesville, NC 28904

The project generally consists of the construction of a new freestanding one story facility of approximately 5,200 SF to accommodate the county’s 911 operations.

An open pre-bid conference is scheduled for **Thursday, December 15, 2022, at 11 AM** at the office of the County Manager at 345 Courthouse Dr., Hayesville, NC 28904. Prospective bidders are requested to attend.

All work is in the Contract for General Construction. All proposals shall be lump sum per the bid form. **Single Prime Contract Bids** to include General Contract, Mechanical, Plumbing, and Electrical disciplines.

It is anticipated that the contractor will be instructed to commence work in **late-February 2023**. Multiple Notices to Proceed will be issued: one for contract award and negotiations to allow for advance procurement of materials, long lead times, supply chain issues, etc.; and a second for on-site construction activities once contractor has sufficient materials to mobilize. The project shall be substantially completed as described in the General Conditions and ready for occupancy for its intended purpose within **Five hundred forty (540) consecutive calendar days** of the second Notice to Proceed.

Complete plans and specifications for this project can be examined at the following locations beginning November 28, 2022:

LS3P ASSOCIATES LTD.
14 O’Henry Ave., Suite 210
Asheville, NC 28801
Hours: M-Th 8am – 5pm
F 8am – 12pm (noon)

Henco Reprographics
54 Broadway
Asheville, NC 28801
Hours: M-F 8am – 5:30pm

Hard copies of the Contract Documents may be purchased, **for a non-refundable cost of \$250 per complete set of plans and specifications**, beginning November 28, 2022, from:

Henco Reprographics
54 Broadway
Asheville, NC 28801
Phone: 828-253-0449
www.HencoPlanRoom.com
Hours of Business: M-F 8am- 5:30pm

NOTE: In an effort to save on printing cost and encouraging paperless projects, drawings and specifications in **PDF format are available for a purchase price of \$125**, which can also be purchased/obtained from Henco Reprographics’ FTP website (www.hencoplanroom.com). Registration **and** payment is required **before** release of PDF documents. If you need further clarification, please contact Greg Underhill at Henco Reprographics.

NOTICE TO BIDDERS

Contractors are reminded that the Bid Documents are copyrighted material and shall not be copied by any party other than LS3P ASSOCIATES LTD. Contractors shall not place the documents on file at reprographic shops or on display at Construction Trade Associations.

The selected Contractor for this project shall submit to the Architect a schedule of estimated values of all material, equipment, and labor included in the main divisions of this contract, totaling the amount of the contract price.

All Bidders are notified that they must have proper General Contractor **Unlimited** licensure (**Classification for Building**) under the laws of the State of North Carolina to perform not only General Contract work, but also Electrical, Mechanical, Plumbing, Fire Protection, etc. (as noted in the requirements for Scope of Work specified on this project).

All BIDS must be made on the required BID form. All blank spaces for BID prices must be filled in, in ink or typewritten, and the BID form must be fully completed and executed when submitted. Only one copy of the BID form is required.

Each proposal shall be accompanied by a cash deposit, a cashier's check or a certified check drawn on some bank or trust company insured by the Federal Deposit Insurance Corporation of an amount equal to not less than five percent (5%) of the proposal or in lieu thereof, a bidder may offer a bid bond of five percent (5%) of the maximum amount of the bid executed by a surety company licensed under the laws of North Carolina to execute such bonds, conditioned that the surety will, upon demand, forthwith make payment to the obligee upon said bond if the bidder fails to execute the contract in accordance with the bid bond. Said deposit shall be retained by the Owner as liquidated damages in event of failure of the successful bidder to execute the contract within ten (10) days after the award or to give satisfactory surety as required by law.

A Performance Bond and a Payment Bond for one hundred percent (100%) of the contract price, with a Corporate Surety approved by the Owner, will be required for the faithful performance of the contract.

Attorneys-in-fact who sign Bid Bonds or payment bond and performance bonds must file with each bond a certified and effective dated copy of their Power of Attorney.

Payment will be made on the basis of ninety-five (95%) of monthly estimates and final payment made upon completion and acceptance of work.

BIDDER further agrees to pay as liquidated damages, the sum of **\$250.00** for each consecutive calendar day thereafter as provided in Article 15 of the General Conditions.

No bid may be withdrawn after the scheduled closing time for the receipt of bids for a period of Sixty (60) days without the consent of the Owner.

The Owner reserves the right to reject any or all bids and to waive informalities.

Signed:

Mrs. Debbie Mauney, Clay County Manager
Clay County NC
345 Courthouse Dr.
Hayesville, NC 28904



Clay County, NC Grant Report – December 2022

Activities – December 2022

- Issued construction drawings for bidding Thursday, December 8.
- Prebid for construction project on Thursday, December 15.
- Communicated regularly with project team (ongoing)

Anticipated Activities – January 2023

- Review questions related to bid package
- Communicate regularly with project team (ongoing)

Clay County, NC Grant Report – December 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)	November 2022	X
Bid and award construction project	Months 16-18 (February – April 2022)	February 2023	

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

Clay County, NC Grant Report – December 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 – November 2022

Activities – November 2022

- Finalized construction drawing set review
- Finalized specification review
- Issued construction drawings for bidding
- Continued coordination with technology vendors
- Coordination with access control / security vendor
- Communicated regularly with project team (ongoing)

Anticipated Activities – December 2022

- Prebid for construction project
- Review questions related to bid package
- Communicate regularly with project team (ongoing)

Clay County, NC Grant Report – November 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.

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Clay County, NC Grant Report – November 2022

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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)		



Sampson County, NC Grant Report – January 2023

Activities – January 2023

- **Construction**
 - Continued punch list items
 - Continued electrical systems installation
 - Test and turn-up the generator
 - Begin final testing and training
- **Technology**
 - Continued AT&T coordination meetings
 - Begin tower foundation installation
 - Continued installation of access control/security
 - Continued Motorola coordination meetings
 - Continued technology coordination and quote review with technology vendors
 - Begin installation of technology systems
 - Reviewed budget and remaining technology procurements

Anticipated Activities – February 2023

- **Construction**
 - Final testing and training
- **Technology**
 - Continue radio tower installation and inspections
 - Continue coordination with AT&T
 - Complete structured cabling
 - Install netclock and displays
 - Finalize data center prep
 - Finalize access control/security installation
 - Kickoff radio console project
 - Continue coordination with radio vendor on microwave
 - Continue migration scheduling
 - Finalize procurements

Sampson County, NC Grant Report – January 2023

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 – October, 2022	
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)		
Test back capabilities for Carteret County	Months 22-23 (September – October 2022)		

¹ Month 1 is December 2020



Sampson County, NC Grant Report – December 2022

Activities – December 2022

- **Construction**
 - Continued punch list items
 - Continued electrical systems installation

- **Technology**
 - Continued radio tower project, received FAA approval, began preparations for tower install
 - Continued installation of access control/security
 - Continued AT&T coordination meetings
 - Continued Motorola coordination meetings
 - Continued technology coordination and quote review with technology vendors
 - Reviewed budget and remaining technology procurements

- **Other**
 - Received extension of NC 911 Grant deadline

Anticipated Activities – January 2023

- **Construction**
 - Continue electrical/punch list items
 - Finalize construction activities

- **Technology**
 - Continue radio tower project
 - Continue coordination with AT&T
 - Complete structured cabling
 - Finalize access control/security installation
 - Continue coordination with radio vendor on microwave and radio consoles
 - Continue migration scheduling
 - Finalize procurements

Sampson County, NC Grant Report – December 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.

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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 – December 2022

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



Sampson County, NC Grant Report – November 2022

Activities – November 2022

- **Construction**
 - Continued punch list items
 - Finalized installation of UPS system

- **Technology**
 - Continued radio tower project, awaiting FAA approval
 - Continued installation of access control/security
 - Finalized dispatch furniture installation
 - Continued structured cabling installation
 - Continued AT&T coordination meetings
 - Continued Motorola coordination meetings
 - Continued technology coordination and quote review with technology vendors
 - Reviewed budget and remaining technology procurements
 - Began migration scheduling and vendor installation outreach

- **Other**
 - Requested extension of NC 911 Grant deadline

Anticipated Activities – December 2022

- **Construction**
 - Continue electrical/punch list items

- **Technology**
 - Continue radio tower project
 - Continue coordination with AT&T
 - Complete structured cabling
 - Finalize access control/security installation
 - Continue coordination with radio vendor on microwave and radio consoles
 - Continue migration scheduling
 - Finalize procurements
 - Begin creation of testing plans

Sampson County, NC Grant Report – November 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.

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Task	Projected Timeframe	Actual	Completed
Bid construction project	Month 1 ¹	December 2020	X
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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 – November 2022

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



Union County, NC Grant Report – January 2023

Activities – January 2023

- Closeout post migration cutover monitoring of 911 EsiNet with County and AT&T
- Review and alignment of remaining technology items for migration and procurement plan tasks
- Continued monitoring tower bid document compilation task by County staff, awaiting completion for bid issuance by County
- Conducted post-migration follow-up technology integration reviews with project team

Anticipated Activities – February 2023

- Monitor procurement of remaining outstanding project technology items
- Continue tasking review of the tower with County staff
- Continue alignment oversight of tower bid/construction tasks with County staff
- Continue technical and vendor reviews for alignment

Union County, NC Grant Report – January 2023

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 the 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)	Installation of technology equipment and related items completed	X
Install structured cabling systems and data center needs	Month 13 – 14 (January – February 2022; construction dependent – extended through 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 – January 2023

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 – October 2022)	Installation completed	X
Test and validate – (pre-go-live decision) (911/facility technology)	Months 16 – 17 (April – May 2022 – extended to October 2022)	Testing and pre-go-live decision completed	X
30-day burn-in – (prior to go-live) (911/facility technology)	Months 18 – 19 (June – July 2022 – extended to October 2022)	Testing and turn up activities (pre-go live) completed	X
Train – (just prior to cutover) (911/facility technology)	Month 19 (July 2022 – extended to October 2022)	Pre-cutover training completed	X
Go-live (911/facility technology)	Month 19 (July 2022 – extended to November 2022)	Go-live completed	X
30-day post-cutover monitoring (911/facility technology)	Month 20 (August 2022 – extended to December 2022)	Cutover monitoring of 911 completed	X
Radio tower/foundation construction bid	Months 20 – 22 (December 2022 – April 2023)	Awaiting issuance of bid documents by county	
Radio tower/foundation construction	Months 23 – 29 (May – November 2023)		
Radio tower project tasking acceptance	Month 29 (November 2023)		
Grant project close out	Month 30 (November 2023)		

Union County, NC Grant Report – January 2023

Grant Award Equipment Procurement Status

Union County NC - NC 911 Grant Award 2021-07						
Budget Report - January 25, 2023						
Item	Grant Award Amount	Expended Amount	Reimbursement Amount Requested / Submitted	Approved / Reimbursed Amount	Award Funds Remaining	Status / Comments
Generator	\$160,000.00	\$305,953.00	\$160,000.00	\$130,936.09	\$29,063.91	Installation completed; reimbursement request submitted; payment received
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

Facility Construction Activity Status²

Construction

- Status
 - Facility building construction is complete and occupied by 911, emergency management and fire service divisions
 - General contractor work completed, sub-contractors are working on close out of remaining facility items
- Schedule
 - Construction on communications tower task is awaiting completion and issuance of bid documents by Union County and selection of vendor(s)

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
 - Completed/tested and functional
- Audio Visual System(s)
 - Completed/tested and functional, final punch list items under review/correction, training of 911 staff is being scheduled
- Facility Security (Access Control/CCTV) Packages
 - Completed/tested and functional, final punch list items under review/correction
- Communications Tower
 - Bid document edits and issuance by county pending
 - Completion of tower currently estimated to occur late-2023

Other Activity

- Ongoing alignment of remaining technology procurement



Union County, NC Grant Report – December 2022

Activities – December 2022

- Complete post migration cutover monitoring of 911 EsiNet
- Review and alignment of remaining technology items for migration and procurement plan tasks
- Continued monitoring tower bid document compilation task by County staff, awaiting completion for bid issuance by County
- Conducted post-migration follow-up technology integration reviews with project team

Anticipated Activities – January 2023

- Monitor procurement of remaining outstanding project technology items
- Continue tasking review of the tower with County staff and third-party engineer
- Continue alignment oversight of tower bid/construction tasks with County staff
- Continue technical and vendor reviews for alignment with grant funded technology

Union County, NC Grant Report – December 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 the 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)	Installation of technology equipment and related items completed	X
Install structured cabling systems and data center needs	Month 13 – 14 (January – February 2022; construction dependent – extended through 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 – December 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 – October 2022)	Installation completed	X
Test and validate – (pre-go-live decision) (911/facility technology)	Months 16 – 17 (April – May 2022 – extended to October 2022)	Testing and pre-go-live decision completed	X
30-day burn-in – (prior to go-live) (911/facility technology)	Months 18 – 19 (June – July 2022 – extended to October 2022)	Testing and turn up activities (pre-go live) completed	X
Train – (just prior to cutover) (911/facility technology)	Month 19 (July 2022 – extended to October 2022)	Pre-cutover training completed	X
Go-live (911/facility technology)	Month 19 (July 2022 – extended to November 2022)	Go-live completed	X
30-day post-cutover monitoring (911/facility technology)	Month 20 (August 2022 – extended to December 2022)	Cutover monitoring of 911 completed	X
Radio tower/foundation construction bid	Months 20 – 22 (December 2022 – April 2023)	Awaiting issuance of bid documents by county	
Radio tower/foundation construction	Months 23 – 29 (May – November 2023)		
Radio tower project tasking acceptance	Month 29 (November 2023)		
Grant project close out	Month 30 (November 2023)		

Union County, NC Grant Report – December 2022

Grant Award Equipment Procurement Status

Union County NC - NC 911 Grant Award 2021-07						
Budget Report - December 22, 2022						
Item	Grant Award Amount	Expended Amount	Reimbursement Amount Requested / Submitted	Approved / Reimbursed Amount	Award Funds Remaining	Status / Comments
Generator	\$160,000.00	\$305,953.00	\$160,000.00	\$130,936.09	\$29,063.91	Installation completed; reimbursement request submitted; payment received
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	\$824,184.57	\$334,021.00	\$304,957.09	\$179,063.91	

Facility Construction Activity Status²

Construction

- Status
 - Facility building construction is complete and occupied by 911, emergency management and fire service divisions
 - General contractor and sub-contractors are working on close out of remaining facility items
- Schedule
 - Construction on communications tower task is paused awaiting completion and issuance of bid documents by Union County and selection of vendor(s)

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
 - Completed/tested and functional
- Audio Visual System(s)
 - Completed/tested and functional, final punch list items under review/correction, training of 911 staff is being scheduled
- Facility Security (Access Control/CCTV) Packages
 - Completed/tested and functional, final punch list items under review/correction
- Communications Tower
 - Bid document edits and issuance by county pending
 - Completion of tower currently estimated to occur late-2023

Other Activity

- Ongoing alignment of remaining technology procurement



Union County, NC Grant Report – November 2022

Activities – November 2022

- Migrate 911/ESInet services to new facility on November 1
- Conduct post migration cutover monitoring
- Review and alignment of remaining technology items for migration and procurement plan tasks
- Continued monitoring tower bid document compilation task by County staff, awaiting completion for bid issuance by County
- Conducted post-migration follow-up technology integration reviews with project team

Anticipated Activities – December 2022

- Monitor procurement of remaining outstanding project technology items
- Continue tasking review of the tower with County staff and third-party engineer
- Continue alignment oversight of tower bid/construction tasks with County staff
- Continue technical and vendor reviews for alignment with grant funded technology

Union County, NC Grant Report – November 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 the 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)	Installation of technology equipment and related items completed	X
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Union County, NC Grant Report – November 2022

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Go-live (911/facility technology)	Month 19 (July 2022 – extended to November 2022)	Go-live completed	X
30-day post-cutover monitoring (911/facility technology)	Month 20 (August 2022 – extended to December 2022)	In process	
Radio tower/foundation construction bid	Months 20 – 22 (December 2022 – April 2023)		
Radio tower/foundation construction	Months 23 – 29 (May – November 2023)		
Radio tower project tasking acceptance	Month 29 (November 2023)		
Grant project close out	Month 30 (November 2023)		

Union County, NC Grant Report – November 2022

Grant Award Equipment Procurement Status

Union County NC - NC 911 Grant Award 2021-07						
Budget Report - November 30, 2022						
Item	Grant Award Amount	Expended Amount	Reimbursement Amount Requested / Submitted	Approved / Reimbursed Amount	Award Funds Remaining	Status / Comments
Generator	\$160,000.00	\$305,953.00	\$160,000.00	\$130,936.09	\$29,063.91	Installation completed; reimbursement request submitted; payment received
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Owner (Union County) Contracted/Owner Furnished Items

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 - Completed/tested and functional, final punch list items under review/correction, training of 911 staff is being scheduled
- Facility Security (Access Control/CCTV) Packages
 - Completed/tested and functional, final punch list items under review/correction
- Communications Tower
 - Bid document edits and review continue by county engineer and staff
 - Completion of tower currently estimated to occur late-2023

Other Activity

- Ongoing alignment of remaining technology procurement



Allegheny County Emergency Management

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

Final Report – 1/27/2023

Please be advised that Allegheny County has completed work on our grant project titled “PSAP upgrade and relocation”. Documentation and invoices have been submitted to Marsha Tapler and we are awaiting final payment. We moved into our new center on January 10th of 2023. To summarize, we converted an existing space within our administration building into a working PSAP, with its own dedicated communication tower to ensure maximum functionality. Funding from both this grant and the regular 911 distribution made this project possible. Our new PSAP is the crown jewel of our county facilities, and our telecommunicators are really enjoying their new work environment.

Our grant project was originally budgeted for \$135,000. This included \$100,000 for the tower and \$35,000 for the renovation of the space. On 6/13/2022 we applied for and received an amendment to the grant to reallocate some of the funds that were earmarked for the tower, as we were able to procure that work for less than the original estimate. In summary, the final cost of the tower portion of the project was \$79,713.10. The final cost to upfit the space was \$51,495.28. The total cost of the project was \$131,208.38. This leaves an unexpended balance of \$3,791.62 that can be returned to the 911 board.

Allegheny County is most appreciative of not only the grant that the 911 board awarded, but also the unwavering support of the staff that has guided all of us through the process.



Daniel Roten

Emergency Management / E-911 Director



Alleghany County Emergency Management

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

Monthly Progress Report

Current Activity – November 2022

Renovation work on the space in complete.

Tower construction is nearly complete

Maintaining budget awareness

Next Month Activity – December 2022

Wrap up tower construction

Submit documentation for project reimbursement and closeout

Burke County, NC Grant Report – January 2023



Activities – January 2023

- January 5, 2023, met with Motorola for preparation of PremierOne CAD, RMS, JMS demonstration scheduled for February 2, 2023
- January 6, 2023, met with Burke County Interim County Manager, Alan Glines on the status of the Flex CAD project and possible solution for moving the project forward

Anticipated Activities – February 2023

- February 1, 2023, stakeholders meeting scheduled to obtain workflow issues and concerns to personalize the demonstration to ensure all workflows and expectations of reports can be met
- February 2, 2023, demonstration scheduled to review the Motorola PremierOne for CAD, RMS, and JMS with all agency stakeholders
- February 7, 2023, meeting scheduled to update the new Burke County Manager, Brian Epley, of this project status
- February 24, 2023, scheduled review of the backend database conversion and GIS layers for CAD, RMS, and JMS build
- February 28, 2023, decision to be made on the solution, or next steps for moving forward

Burke County, NC Grant Report – December 2022



Activities – December 2022

- December 2, 2022, presented to the NC 911 Board on the status of the Flex CAD project and grant status
- December 8, 2022, Burke County conducted meeting with Motorola to discuss options for moving forward, seeking an alternative solution, replacing the Flex CAD
- December 14, 2022, all agency stakeholders met with Motorola for resolving project issues to obtain the next steps for moving the project forward with an alternative solution

Anticipated Activities – January 2023

- January 5, 2023, meeting scheduled with Motorola for preparation of PremierOne CAD, RMS, JMS demonstration scheduled for February 2, 2023
- January 6, 2023, meeting scheduled to update Interim County Manager, Alan Glines on the status of the Flex CAD project and possible solution for moving this project forward

Burke County, NC Grant Report – November 2022



Activities – November 2022

- November 1, 2022, Heather Joyner selected as the new 911 Director for Burke County
- November 1, 2022, called stakeholders meeting to meet the new 911 Director and discuss the status of the Motorola Flex CAD project
- November 3, 2022, meeting conducted with County Manager, Bryan Steen, 911 Director, Heather Joyner, Operations Manager, Chris White, and Training Coordinator, Terry Lail with Motorola representatives, Account Manager, Taylor Rawls, and Industry Specialist, Alan Melvin to discuss the status of the Flex CAD project, which is not in live production
- November 3, 2022, project meeting with Burke County Admin and Motorola for the Flex CAD status, which is not moving forward or near live production as dispatch protocols and GIS layers are not able to be resolved or implemented with the Flex CAD

Anticipated Activities – December 2022

- December 2, 2022, presenting to the NC 911 Board on the status of the Flex CAD project and grant status
- December 8, 2022, Burke County has a scheduled meeting with Motorola to discuss options for moving forward, seeking an alternative solution, replacing the Flex CAD
- December 14, 2022, Motorola scheduled to meet with all agency stakeholders for resolving project issues to obtain the next steps for moving this project forward with an alternative solution



Burke County Emergency Communications

"Saving Lives One Call at a Time"

650 Kirksey Dr., P.O. Box 219
Morganton, NC 28655

Website:

www.burkenc.org

Heather Joyner

911 Director

Office: 828.764.9133

heather.joyner@burkenc.org

Ali Rose

Senior Administrative Assistant

Office: 828.764.9123

alexis.rose@burkenc.org

Chris White

Operations Manager

Office: 828.764.9125

chris.white@burkenc.org

Terry Lail

Quality/QA Manager

Office: 828.764.9124

terry.lail@burkenc.org

BURKE COUNTY 911 GRANT MONTHLY GRANT REPORT
October 2022

Burke County met with Motorola virtually October 4th, 2022. This was a brief session where we Motorola advised us that they feel that FLEX meets the contract and it is their stance that we can go live. It is Burke County's stance that FLEX still fails to meet the baseline functions of emergency operations procedures for Burke County 911 and it's partners.

Burke County 911 held monthly meetings in September and October with our partner agencies. All partner agencies agree that FLEX CAD will not function to the needs of Burke County Emergency Services. Morganton Public Safety advises that the Traffic Stop Racial Profiling Report in Flex does not meet NC General Statute.



Burke County Emergency Communications

"Saving Lives One Call at a Time"

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Terry Lail

Quality/QA Manager

Office: 828.764.9124

terry.lail@burkenc.org

BURKE COUNTY 911 GRANT MONTHLY GRANT REPORT
September 2022

Burke County met with Motorola virtually September 1st at 2:00pm. This was a brief session where we notified Motorola that the data conversion still did not meet Burke County needs and standards. FLEX remains unable to dispatch the baseline functions of emergency services in Burke County.



Ray Silance
911 Division Chief
Onslow County 911 Center
1180 Commons Drive N.
Jacksonville, NC 28546

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

Dear Ms. Harris,

Please see below our progress report for December 2022

- We are still working through data conversion.
- Go live date has been pushed back to February 14th due to data conversion pains.
- We have started the process of end user training for several short refresher due to pushing back our go-live date.

Thank you for your continued support and guidance with implementation of new CAD System. Please let me know if you have any questions.

Ray Silance
911 Division Chief

Phone: 910-989-5013

Fax: 910-938-1827

Email: Ray_Silance@onslowcountync.gov

1180 Commons Drive N.
Jacksonville, NC 28546



Ray Silance
911 Division Chief
Onslow County 911 Center
1180 Commons Drive N.
Jacksonville, NC 28546

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

Dear Ms. Harris,

Please see below our progress report for November 2022

- Lots of work with County, City GIS folks working together getting map and layers entered into FLEX CAD.
- We are still working through data conversion.
- Go live date has been pushed back to February 14th due to data conversion pains.

Thank you for your continued support and guidance with implementation of new CAD System. Please let me know if you have any questions.

Ray Silance
911 Division Chief

Phone: 910-989-5013

Fax: 910-938-1827

Email: Ray_Silance@onslowcountync.gov

1180 Commons Drive N.
Jacksonville, NC 28546

Polk County, NC Grant Report – January 2023



Activities – January 2023

- Continued design and drawing review
- Reviewed detailed MEP narrative
- On-site schematic design review
- Continued site planning and coordination
- Continued technology design planning
- Gathered additional details for data center layout
- Communicated regularly with project team (ongoing)

Anticipated Activities – February 2023

- Continue design and drawing review
- Review cost estimates for SD drawings
- Continue radio system / tower discussions
- Continue technology design requirements
- Begin permit planning coordination
- Communicate regularly with project team (ongoing)

Polk County, NC Grant Report – January 2023

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	X
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 – January 2023

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 – December 2022



Activities – December 2022

- Continued design and drawing review
- On-site design meeting and MEP discussion
- Reviewed site survey
- Continued technology design requirements
- Began data center layout and requirements
- Communicated regularly with Project Team (ongoing)

Anticipated Activities – January 2023

- Continue design and drawing review
- On-site schematic design meeting
- Continue technology design requirements
- Continue data center layout and requirements
- Communicate regularly with Project Team (ongoing)

Polk County, NC Grant Report – December 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	X
Undergo design and construction document processes	Months 5-14 (May 2022 – February 2023)		
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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 – December 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 – November 2022



Activities – November 2022

- Continued design
- On-site structural review by engineers
- Reviewed programming and initial schematic designs
- Reviewed site survey
- On-site mechanical, electrical, and plumbing reviewed by engineers
- Continued technology design requirements
- Communicated regularly with Project Team (ongoing)

Anticipated Activities – December 2022

- Continue design
- Continue technology design requirements
- Communicate regularly with Project Team (ongoing)

Polk County, NC Grant Report – November 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	X
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 – November 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)		

2022 PSAP Grant Monthly Progress Report Watauga County Communications

Date: February 2nd, 2023

PSAP: Watauga County

Project: The consolidation of the Boone PD PSAP with Watauga County Communications

Begin Date: May 1, 2022

End Date: June 30, 2024

Summary of Activity:

- The 11 MCC7500e console positions have been ordered and the majority of hardware has been received and is in storage at the MCA warehouse in Charlotte. Motorola is currently reviewing an updated installation schedule and hopes to provide that update by mid-month.
- As long as the final equipment ships, the expectation is for installation in late March – early April per Motorola.
- The land acquisition process is in the due diligence phase.
- A full updated budget and timeline will be provided once the land acquisition is completed.

Respectfully,



Will Holt
ES Director

2022 PSAP Grant Monthly Progress Report Watauga County Communications

Date: January 4, 2023

PSAP: Watauga County

Project: The consolidation of the Boone PD PSAP with Watauga County Communications

Begin Date: May 1, 2022

End Date: June 30, 2024

Summary of Activity:

- The 11 MCC7500e console positions have been ordered and the majority of hardware has been received and is in storage at the MCA warehouse in Charlotte. The final equipment is expected to be shipped January 18th.
- As long as the final equipment ships, the expectation is for installation in late March – early April per Motorola.
- The land acquisition process is ongoing for the new communications center.
- A full updated budget and timeline will be provided once the land acquisition is completed.

Respectfully,



Will Holt
ES Director

2022 PSAP Grant Monthly Progress Report Watauga County Communications

Date: December 9, 2022

PSAP: Watauga County

Project: The consolidation of the Boone PD PSAP with Watauga County Communications

Begin Date: May 1, 2022

End Date: June 30, 2024

Summary of Activity:

- This is the first full progress report of the cycle. We have sent in a few updated budgets/timelines
- The consolidation successfully occurred on May 1st with no major hurdles
 - o There have been multiple stakeholder meetings finalizing details and addressing minor issues. The relationships between all stakeholders remains very strong
 - o All IT equipment from the consolidation agreement has been onboarded by WCIT
 - o The radio vendor has updated contracts and agreements to change ownership to Watauga County
- The 11 MCC7500e console positions have been ordered and the majority of hardware has been received and is in storage at the MCA warehouse in Charlotte
- The fiber connections for both the current primary and backup centers have been installed and tested
- The Eventide recorder has been installed, currently in an analog configuration pending installation of the MCC7500e system
- The land acquisition process is ongoing for the new communications center. The original site was found to be marginally suitable during the due diligence period by the architect. This original site is being held in reserve due to the significant cost of land preparation. A new site has been selected and is currently in the real estate acquisition process which is looking favorable and it is a "build ready" site.
- A full updated budget and timeline will be provided once the land acquisition is completed.

Respectfully,



Will Holt
ES Director

FY2023A Ashe County G2023A-01 Monthly Report 2023 02

January 2023 progress:

- Additional project parts/components arrived at Motorola warehouse. Parts still awaiting arrival are:
 - A. Seven (7) USB AUDIO INTERFACE MODULE(s)
 - B. **Seven (7) GGM 8000 GATEWAY(s)**
 - C. Six (6) ALL BAND CONSOLETTTE(s)
 - D. Three (3) APX CONSOLETTTE RACK MOUNT KIT(s)

Note – The GGM 8000 Gateways are the components that are historically being the most difficult to get and are taking extended arrival times.

- Virtual meeting with Motorola discussing progress and anticipated timelines was completed on January 9th
- January 19th MCNC field tech installed the MCNC routers at the main PSAP and the backup PSAP. Both tested good.
- January 26th Motorola walkthrough of both facilities by Motorola field techs. Discussed topics were:
 - A. Where equipment will be installed at both locations
 - B. What house cleaning preparations will need to be completed before installation at both locations.
 - C. Installation of ground block at backup PSAP for equipment grounding.
 - D. Procurement and installation of TrippLite SMART2200RMXL2U Ups at backup PSAP.
 - E. Workstation End User and Admin training. Where we will hold the training at inside our facility and the necessary accommodations.

Anticipated progress for February 2023:

- Continued progress of equipment arriving at Motorola for this project.
- Virtual meeting on February 6th with Motorola to discuss current project status, timelines, etc.
- Completion of prerequisites listed above from the Motorola walkthrough.

There is not a lot of progress anticipated for January as we are still awaiting all parts to arrive at Motorola warehouse so the project assembly can begin. Once this happens I anticipate the installation to move a lot quicker as far as the on-site installation process is concerned.

FY2023A Ashe County G2023A-01 Monthly Report 2023 01

December 2022 progress:

- Installation of fiber connection at main dispatch center located at 140 Law Enforcement Dr. (County funded fiber connection)
Note – The fiber connection for 140 Law Enforcement Dr. was installed in the wrong building by Skyline/Skybest. The connection had to be relocated to 140 Law Enforcement Dr. This was due to a recent address change that caused some confusion.
- Additional project parts/components arrived at Motorola warehouse. This will be discussed at the January 9th meeting with Motorola.

Anticipated progress for January 2023:

- Continued progress of equipment arriving at Motorola for this project.
- Virtual meeting on January 9th with Motorola to discuss current project status, timelines, etc.
- Onsite meeting with MCNC representative to begin finalization of MCNC fiber connection to Newton NC Viper K-Core.

There is not a lot of progress anticipated for January as we are still awaiting all parts to arrive at Motorola warehouse so the project assembly can begin. Once this happens I anticipate the installation to move a lot quicker as far as the on-site installation process is concerned.



Office of the Sheriff

BRUNSWICK COUNTY, NORTH CAROLINA

JOHN W. INGRAM, V
SHERIFF

BOLIVIA 910-253-2777
NC 800-672-6379
FAX 910-253-2705

February 2, 2023

Attention: L. V. Pokey, Executive Director
North Carolina 911 Board
P.O. Box 17209
Raleigh, NC 27609
Reference: Brunswick County 911 Communications FY2023 Grant Report

Mrs. Harris,

We are currently waiting for a shipment update from Motorola. Beyond that, I have nothing new to report at this time.

Respectfully,

Kim Lewis, Director



JOHN W. INGRAM, V
SHERIFF

Office of the Sheriff

BRUNSWICK COUNTY, NORTH CAROLINA

BOLIVIA 910-253-2777
NC 800-672-6379
FAX 910-253-2705

January 19, 2023

Attention: L. V. Pokey, Executive Director
North Carolina 911 Board
P.O. Box 17209
Raleigh, NC 27609
Reference: Brunswick County 911 Communications FY2023 Grant Report

Mrs. Harris,

We are in the early stages of our backup radio Consolette project and have little information to report at this time.

The order for 23 backup radio Consolettes was placed on November 11, 2022 after release of the Purchase Order. We followed up with Motorola in December and were advised they would be shipped sometime between the end of February and the middle of March. We were also advised at that time there were manufacturing delays with the E5 control heads causing a shipment delay.

We have nothing to report at this time. Please let me know if you have any questions.

Respectfully,

Kim Lewis, Director



Cleveland County, NC Grant Report – January 2023

Activities – January 2023

- Continued design and drawing review
- Held on-site design meeting and MEP discussion
- Reviewed site survey
- Continued technology design requirements
- Began data center layout and requirements
- Communicated regularly with project team (ongoing)

Anticipated Activities – February 2023

- Continue design and drawing review
- On-site schematic design meeting
- Continue technology design requirements
- Continue data center layout and requirements
- Communicate regularly with project team (ongoing)



Cleveland County, NC Grant Report – December 2022

Activities – December 2022

- **Design**
 - Contracted with an architect and engineering firm
 - Contracted with a project management firm
 - Began space programming
 - Budget and timeline review

Anticipated Activities – January 2023

- **Design**
 - Continue design and space programming



Johnston County 911 Communications

120 South Third Street
Smithfield, N. C. 27542
(919)-989-5611

Brett Renfrow, ENP
911 Director

brett.renfrow@johnstonnc.com

January 26, 2023

Ms. Pokey Harris
Executive Director
North Carolina 911 Board

Ms. Harris,

I am writing to you today to provide an update on Johnston County's grant process as of today. The construction phase of our facility appears to be on schedule and has not incurred any substantial delays to date. With regards directly to our grant, we have placed orders for all of the grant related equipment and as of now we have no known delays in acquisition of the equipment. We are currently working on an issue with obtaining our network gear from our vendor due to a supply chain issue that could potentially cause our transition to our new facility to be delayed. We are working with the current vendor as well as looking at alternate sources for acquisition of the needed equipment. As always, I am available for any further questions.

Respectfully,

Brett Renfrow, ENP
911 Director
Johnston County 911 Communications





Johnston County 911 Communications

Brett Renfrow, ENP
911 Director
brett.renfrow@johnstonnc.com

120 South Third Street
Smithfield, N. C. 27542
(919)-989-5611

January 5, 2023

Ms. Pokey Harris
Executive Director
North Carolina 911 Board

Ms. Harris,

I am writing to you today to provide an update on Johnston County's grant process as of today. The construction phase of our facility continues with great progress and appears to be on schedule and has not incurred any substantial delays to date. With regards directly to our grant, we have placed orders for all of the grant related equipment and as of now we have no known delays in acquisition of the equipment. We feel our timeline is currently on schedule and are actively working to mitigate any potential supply chain issues. Some of our equipment has been scheduled for delivery ahead of the anticipated date of a Certificate of Occupancy of April 20, 2023 to ensure there are few if any delays in transitioning to our new facility. Thank you for the continued support from yourself and your staff. As always, I am available for any further questions.

Respectfully,

Brett Renfrow, ENP
911 Director
Johnston County 911 Communications



Madison County EOC
348 Medical Park Dr, Room 207
Marshall, NC 28753
828-649-3602

Date: February 3, 2023

To: Pokey Harris & Stephanie Conner

From: Caleb Dispenza

Subject: FY2023A Madison County G2023A-06 Monthly Report 2023 02

Previous Month's Progress:

- The vendor agreement and associated 725-G approval documents were presented by Caleb to the Madison County Board of Commissioners at the January 10th, 2023 meeting.
 - The BOC voted unanimously in favor of approval.
 - Caleb updated the vendor on progress and vendor advised they would assign a project manager who would be in touch regarding next steps.
- Caleb Dispenza and Kary Ledford (Finance) attended the FY 2023A PSAP Grant Program Grantee Financial Reporting Workshop on 1/11/2023 via Microsoft Teams.
- Motorola has assigned a project manager and conducted a Customer Design Review call on February 3, 2023.
 - Equipment to be delivered by June 13th, 2023, and stored at EOC.
 - Estimated equipment installation date is June 15th, 2023.
 - Cutover date is July 5th, 2023.
- Caleb updated the project tracking spreadsheet on Google Sheets (copy attached).

Next Month's Anticipated Progress:

- To coordinate with MCNC for the fiber link to SHP Newton VIPER core. This will need to be scheduled along with the new equipment cutover date.
 - MCNC has already quoted this work, and it has been approved by the Madison BOC.
 - ETSF ineligible, not grant funded. Funded by Madison general funds.

- Caleb will develop a revised budget and work plan to be submitted no later than Tuesday, March 21, 2023.
 - This work plan will include an estimated schedule for the procurement, installation, training, and cutover of the new dispatch system.
 - Project deliverables and timeline will be added to the existing Google Sheets project tracking sheet.
 - This was on the previous month's anticipated progress, but Caleb needed the info from the vendor's project team to complete this task.

- Caleb will discuss equipment maintenance contracts with the legacy console dispatch vendor. The legacy equipment is Moducom, maintained by Asheville Communications. Asheville Communications has two maintenance agreements in place with Madison County. One contains all ETSF eligible equipment, which is primarily the Moducom system. The other maintenance contract contains the non-ETSF eligible equipment, such as repeater site equipment.
 - This also was on the previous month's anticipated project, but Caleb needed the timeline info from the vendor to prepare for this.

- Caleb will discuss recording server upgrade availability/cost/approvals to coordinate with new dispatch console system.
 - Alternative plan would be to determine if the existing recording server is compatible with the new console system.

I look forward to continuing our partnership through this project. Thank you for your support and guidance. Please advise if there is anything needed from me at any time.

Best Regards,

Caleb Dispenza

Emergency Operations Director
Madison County EOC



Madison County EOC
348 Medical Park Dr, Room 207
Marshall, NC 28753
828-649-3602

Date: January 5, 2023

To: Pokey Harris & Stephanie Conner

From: Caleb Dispenza

Subject: FY2023A Madison County G2023A-06 Monthly Report 2023 01

Previous Month's Progress:

- On 12/13/2023, Caleb presented the grant agreement for approval and signature to the Madison County Board of Commissioners. The agreement was approved unanimously and signed by the Madison County BOC Chair and Finance Director. The BOC also approved a Grant Project Ordinance to manage the project funds through this fiscal year and the next fiscal year.
 - The grant agreement was countersigned by Pokey Harris on 12/21/2022.
- Caleb created a project tracking spreadsheet on Google Sheets (copy attached).
- The equipment vendor for this project is Motorola Solutions, Inc. This is the only vendor that can supply the MCC7500E console equipment and software. The vendor has submitted a proposal for the four (4) console dispatch system. This has been reviewed by NC911 Board financial specialists to determine ETSF eligibility, and therefore grant fund amounts. On 12/15/2022, Caleb sent this to Madison County's legal counsel for review. On 12/22/2022, the legal counsel responded and found the agreement appropriate as to form and recommended:
 - 1) Have the vendor sign Madison County's standard contract addendum.
 - 2) As this project is pursuant to North Carolina State Contract 725-G, send the vendor agreement to the 725-G contract administrator to ensure it is consistent with the state contract. On 12/20/2022, Caleb emailed Melinda Williams, who is the contract administrator listed on the 725-G document. Melinda has an email auto-reply stating she is out on medical leave until February 6, 2023 and provided the contact information for James Tanzosch and Andrea Pacyna. On 12/20/2022, Caleb emailed James and

Andrea to ask for their review of the vendor agreement pursuant to the state contract. James and Andrea responded via email on 1/4/2023 and 1/5/2023 and advised that the contract was acceptable and provided a signed Purchase Transaction Approval (attached).

- 3) Ensure the BOC approves the budget amendment (this was approved at the 12/13/2022 Madison BOC meeting).

Next Month's Anticipated Progress:

- To complete the review of the vendor agreement with all local and state authorities, and then sign the agreement.
 - On Jan 10, 2023, Caleb will present the agreement to the Madison Board of Commissioners for approval.
- Following Madison County's approval of the agreement, Caleb will develop a revised budget and work plan to be submitted no later than Tuesday, March 21, 2023.
 - This work plan will include an estimated schedule for the procurement, installation, training, and cutover of the new dispatch system.
 - Project deliverables and timeline will be added to the existing Google Sheets project tracking sheet.
- Caleb will discuss equipment maintenance contracts with the legacy console dispatch vendor. The legacy equipment is Moducom, maintained by Asheville Communications. Asheville Communications has two maintenance agreements in place with Madison County. One contains all ETSF eligible equipment, which is primarily the Moducom system. The other maintenance contract contains the non-ETSF eligible equipment, such as repeater site equipment.
- Caleb Dispenza and Kary Ledford (Finance) will attend the FY 2023A PSAP Grant Program Grantee Financial Reporting Workshop on 1/11/2023 via Microsoft Teams.

I look forward to continuing our partnership through this project. Thank you for your support and guidance. Please advise if there is anything needed from me at any time.

Best Regards,

Caleb Dispenza

Emergency Operations Director
Madison County EOC



Mount Holly Police Department

400 East Central Avenue • Mount Holly, NC • 28120 • (704) 827-4343 • (704) 822-2932

Brian K. Reagan
Chief of Police

MEMORANDUM

To: L.V. Pokey Harris
Executive Director

From: Sgt Bryan Kale
Mount Holly Police Department

Date: February 3, 2023

RE: Grant Contract G2023A-07

The Mount Holly Police Department has not moved forward with any contracts, purchases, or direct disbursements to any party since the start of the grant. We are working with the Mount Holly City Project Manager and formulating a plan to move forward. She has also met with the PSAP Assistant Team during January. On February 10, 2023 we will be meeting to discuss the next steps for purchasing.

Thank you,

Sgt Bryan Kale
Mount Holly Police Department



Mount Holly Police Department

400 East Central Avenue • Mount Holly, NC • 28120 • (704) 827-4343 • (704) 822-2932

Brian K. Reagan
Chief of Police

MEMORANDUM

To: L.V. Pokey Harris
Executive Director

From: Sgt Bryan Kale
Mount Holly Police Department

Date: January 6, 2023

RE: Grant Contract G2023A-07

The Mount Holly Police Department returned the signed grant to NC DIT 911 Board on December 28, 2022 and an acknowledgement has been received. During that time the Mount Holly Police Department has not moved forward with any contracts, purchases, or direct disbursements to any party. During the coming week, meetings will be scheduled to discuss the project and begin a project schedule.

Thank you,

Sgt Bryan Kale
Mount Holly Police Department



PERQUIMANS COUNTY EMERGENCY SERVICES

P.O. Box 563 - 159 Creek Drive - Hertford, NC 27944

(252) 426-5646 Phone - (252) 426-3306 Fax

Jonathan A. Nixon, Director

February 3, 2023

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

Re: Perquimans County 911 Communications – End of Life Replacement Project – February 2023 Monthly Report

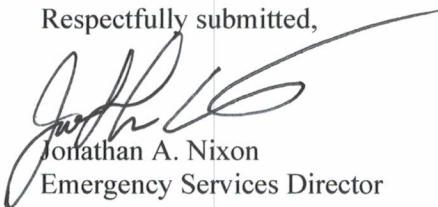
Dear Ms. Harris:

Perquimans County 911 Communications is submitting a monthly report for our End-of-Life Replacement Project. Our current activities include:

- Working with Motorola to coordinate the procurement of backroom equipment that will allow our backup radio equipment to work after finding that the Chowan County 911 Communications Center grant was not funded.
- Working with Motorola on installation timeline based on equipment arrival dates.
- There are no reimbursements requested at this time.

Do not hesitate to call should you have any questions or concerns.

Respectfully submitted,



Jonathan A. Nixon
Emergency Services Director



PERQUIMANS COUNTY EMERGENCY SERVICES

P.O. Box 563 - 159 Creek Drive - Hertford, NC 27944

(252) 426-5646 Phone - (252) 426-3306 Fax

Jonathan A. Nixon, Director

January 5, 2023

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

Re: Perquimans County 911 Communications – End of Life Replacement Project – January 2023 Monthly Report

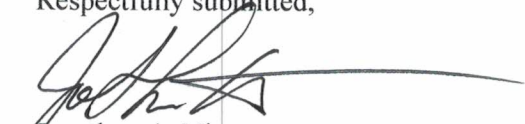
Dear Ms. Harris:

Perquimans County 911 Communications is submitting a monthly report for our End-of-Life Replacement Project. Our current activities include:

- Waiting to hear if Chowan County 911 Communications Center has been awarded their grant that coincides with our backup PSAP.
- Working with Motorola on equipment purchases and installation timeline.
- There are no reimbursements requested at this time.

Do not hesitate to call should you have any questions or concerns.

Respectfully submitted,



Jonathan A. Nixon
Emergency Services Director

Tab 10

Center of Geographic Information Analysis 2024-2027 Cycle Proposal

- **Presentation by Tim Johnson, CGIA Director**
- **Proposal Consideration and Recommendation**
(Roll Call Vote Required)

February 10, 2023

L.V. Pokey Harris, MPA, ENP
Executive Director
NC 911 Board
NC 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 attached proposal for consideration by the NC 911 Board. The proposal describes the next four-year cycle of orthoimagery projects which would take place starting in 2024 with the coastal plain and continuing into the piedmont and mountains of North Carolina in subsequent years, concluding in 2027. Over the past four-year cycle, the project team has made every effort to produce the highest quality imagery products for use in each of the PSAPs across the state, while also improving project timelines to deliver those products.

The value of the orthoimagery to the PSAPs and other stakeholders across North Carolina continues to increase as the imagery products serve as a strong foundation for maintenance of the NextGen 911 datasets and other mapping efforts. High quality imagery is critical to efforts such as broadband project planning, transportation planning, engineering, forestry, agriculture, and many other uses. The Geographic Information Coordinating Council (GICC) last year adopted a Business Plan for Building Footprints that recommends the orthoimagery products from this program to serve as the basis for artificial intelligence workflows for extracting buildings from the imagery. Those building footprints will aid in flood mapping, emergency response, 911 initial unit response plans, U.S. Census validation, broadband grant funding, and fire risk mitigation, among many other uses. This demonstrates how the benefits and uses of the imagery products continue to evolve.

The Coastal 2024 project is the first phase of the four-year cycle and will cover 15,679 square miles and 27 counties in the coastal plain of the state. This project is the largest in total area out of all phases and would be completed at a total cost of \$3,706,113. The projected cost of the entire four-year cycle through 2027 is \$14,061,776.

We look forward to briefing the Board at the February 24th board meeting.

Sincerely,



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

attachments: letters of support and technical/cost proposal

STATEWIDE ORTHOIMAGERY PROGRAM

2024-2027

Orthoimagery Acquisition, Processing and Distribution



Prepared for

North Carolina 911 Board

Prepared by

North Carolina Center for Geographic Information and Analysis

Submitted on

February 10, 2023

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Contents

Statement of Need..... 4

Program Approach..... 5

Project Team Roles and Responsibilities 11

Costing Approach..... 13

Conclusion 15

Level of Effort and Cost 16

Scope of Work..... 17

Schedule 22

Statement of Need

Orthoimagery is a fundamental, mission critical dataset loaded into Computer Aided Dispatch (CAD) systems for use in all 911 Public Safety Answering Points (PSAPs) in North Carolina. The availability of consistent, current, highly accurate orthoimagery when responding to an emergency is essential for effective response. This is especially critical with the prevalence of 911 calls from mobile phones. According to the North Carolina 911 Board website, over 75% of calls to NC PSAPs in 2018 were wireless, and this continues to increase with over 80% of calls in 2022 being wireless. Having consistent orthoimagery with a high degree of spatial accuracy provides positioning and situational awareness necessary to properly respond to these calls. It also provides a consistent foundation for the creation and maintenance of local and county Geographic Information Systems (GIS) data, such as addresses, road centerlines, and emergency service boundaries that drive the location validation and routing within Next Generation 911 (NG911). Since the first statewide orthoimagery project in 2010, North Carolina has moved from a patchwork quilt of county imagery with varying quality and dates of acquisition to a complete, consistent, and current dataset due to the investment of the NC 911 Board.

The Geographic Information Coordinating Council (GICC) and its collaborating participants developed and distributed the *Business Plan for Orthoimagery in North Carolina* in October 2010 in response to questions about the future of orthoimagery in the context of statewide programs and policies (<https://files.nc.gov/ncdit/documents/files/OrthoImageryBusinessPlan-NC-20101029.pdf>). The result was a plan that recommended an annual, quarter-state acquisition of new leaf-off orthoimagery beginning in January 2012 and continuing through 2015 (the first four-year cycle). The Business Plan recognized that funding sources with a statewide perspective, thus recognizing economies of scale, were essential to achieving a coordinated program. The third four-year cycle began in 2020 along the coast and is currently in the fourth and final project phase of sustaining the recommended four-year refresh rate for every county. Benefits resulting from this investment by the 911 Board include saving time in locating and responding to emergencies, saving time in informing public decisions, increasing public revenue due to more accurate data for assessments, and avoiding costs of erroneous information from out-of-date imagery and map features.

The *Business Plan for Orthoimagery in North Carolina* also outlined how vital aerial imagery is for the creation and maintenance of other GIS datasets. Current and accurate orthoimagery products decrease the effort necessary to maintain other framework datasets, which in turn improves the overall quality of mapping in the state. Implementation of NG911 in North Carolina relied heavily on the orthoimagery produced from this initiative to support the maintenance and quality control requirements for these GIS data layers. North Carolina continues to be one of the top growing states in the country according to both the census and the North Carolina State Demographer (<https://bit.ly/3HCVDXP>). As this growth continues, consistent and accurate imagery can serve in location validation and call routing for 911, as well as in improving the quality of the GIS data layers for NG911 as they change to keep up with the growth in the State.

Program Approach

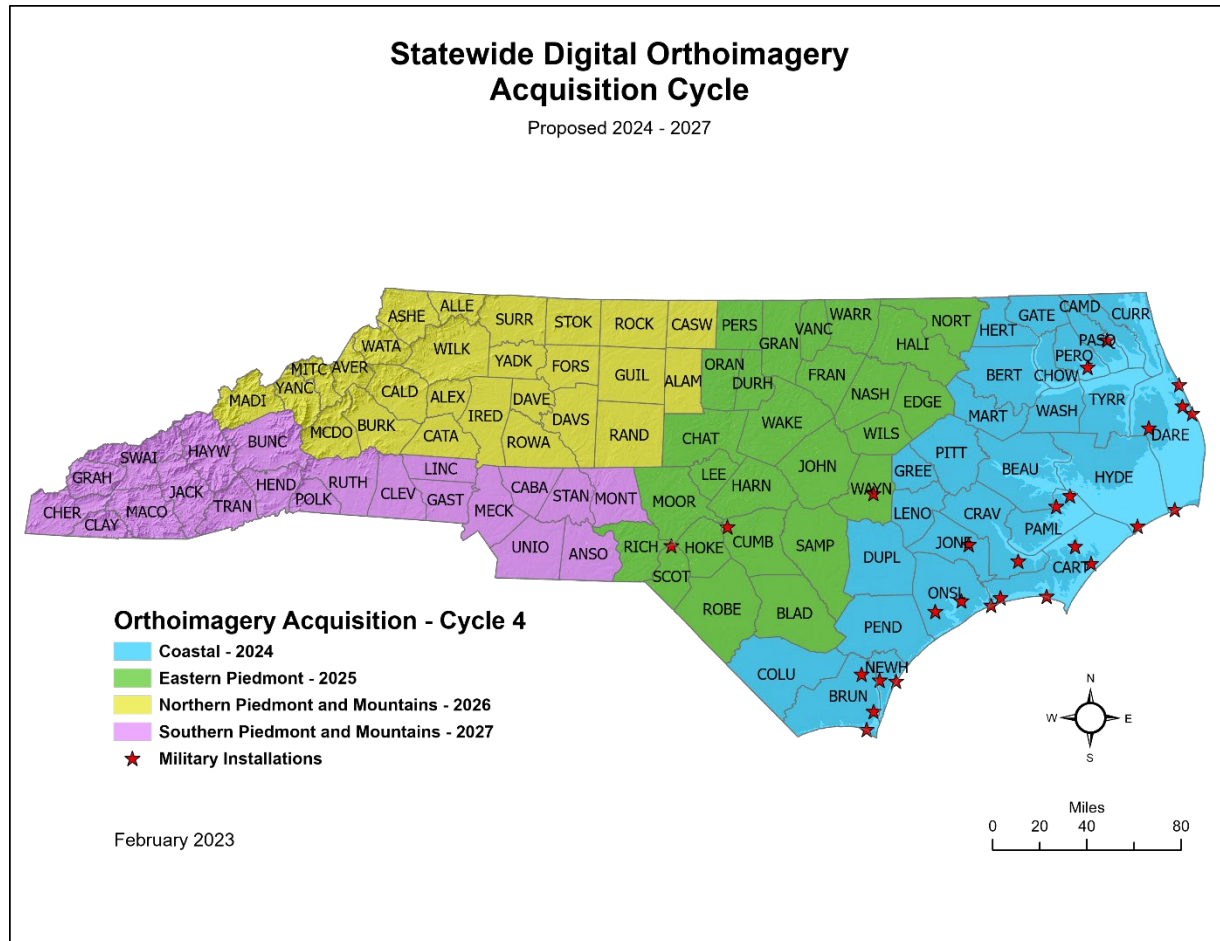


Figure 1: Proposed Four-Year Statewide Orthoimagery Cycle

Figure 1 outlines the proposed four-year cycle beginning in 2024 with 26 counties in the coastal region of the state. This division of the state into four project regions is identical to the 2016 - 2019 and the 2020-2024 program cycles. Each region of the state: the coast, piedmont, and mountains, present unique challenges for acquiring and processing orthoimagery. The project team must approach each project with an understanding of what these challenges will require.

Along the coast and in the piedmont, flooding tends to be an issue during the winter months when acquisition is underway. In the mountains, snow cover often prevents the imagery from being acquired. Close coordination with our military partners at MCB Camp Lejeune, MCAS Cherry Point, Fort Bragg, Seymour Johnson AFB, and at the Military Ocean Terminal Sunny Point is a major factor in successfully acquiring imagery during the coastal and eastern piedmont projects. As the overall project manager, CGIA must take all the distinctive challenges for each project into consideration when developing requirements and oversight. The foundation for the project requirements and oversight is based on the *North Carolina Technical Specifications for Digital Orthophoto Base Mapping*, adopted by the NC Secretary of State (see https://www.sosnc.gov/documents/forms/land_records/Technical)

[Specifications.pdf](#)). Using these specifications as a basis for the orthoimagery program ensures that the investment by the NC 911 Board leads to consistent orthoimagery products with the highest quality possible.

The imagery acquisition season is the most critical period for each project. This typically runs from the first of February into mid-April depending on which part of the state is being flown. Due to the stringent requirements of the projects for leaf-off collection, lack of cloud cover, rivers within their banks, absence of snow cover, minimum sun angle, and other conditions, the contractors may only have eight to ten days with optimum conditions to fly the project area. Due to this tight window, the project team contracts each year with up to five vendors each phase to guarantee that there are adequate systems available to collect the region necessary for that project year. NCDOT has developed real-time acquisition monitors allowing the team to review the results of every flight mission not to exceed five days after the mission occurs. If the flight mission does not meet certain requirements, re-flights are required. CGIA includes contractual terms and conditions mandating re-flights the next flying season if there is demonstrated non-compliance. This ensures that the contractors are placing North Carolina as a high priority and not missing opportunities to acquire imagery when conditions are favorable.

Throughout each phase of the program, oversight and accountability of private contractors has been achieved through the review of several required compliance documents that each contractor must submit at milestones throughout the project. Much of the compliance documentation must be signed and sealed by a Professional Land Surveyor (PLS) licensed in North Carolina to attest to the accuracy of the processes outlined. They outline the processes, technologies, and results of each phase of orthoimagery development, such as flight planning, horizontal control surveys, imagery acquisition, GNSS-IMU post-processing, aerotriangulation, and final product delivery. Each piece of documentation is analyzed by the state project team for adherence to the state standards for orthoimagery and the project requirements. This generates a consistent, high-quality product from every contractor on each project.

911 BOARD COVERAGE REQUIREMENTS	
7 Mile Extent	Coverage that extends a minimum of 7 miles outside that county. Provides coverage for cellular call routing.
Neighbor Counties – Current project year	Provides regional coverage within the current project year.
Neighbor Counties – Previous project years	Completes regional coverage with imagery from previous projects where applicable.
Adjacent State Imagery	GA, SC, TN, and VA imagery from partners in those states incorporated into the single file mosaic for counties that border these states.

CGIA and the project team continually strive to improve upon the administration of the program and the products produced. CGIA has incorporated lessons learned and feedback from the 911 Board to improve the final products delivered at the end of each project.

Table 1: Imagery Extent Requirements

Table 1 outlines the current

requirements related to the coverage of the imagery delivered to each county. Having these requirements in place ensures each PSAP receives the coverage necessary to respond to any emergencies even if they fall outside their respective county boundary. Throughout the first four-year cycle, advancements were made to the county-wide, single file imagery deliverable that many of PSAP CAD systems employ. Figure 2 demonstrates an example of how the new coverage requirements combine to produce the single file product that is now delivered at the

end of each project to the PSAPs. It also shows the full regional extent of imagery products delivered to each PSAP that includes neighboring county mosaics, past project files, and the latest imagery received from adjacent state partners in Georgia, South Carolina, Tennessee, and Virginia. Feedback received from the 911 community showed concern of having base mapping that extended outside the county boundary far enough for the routing of mobile phone calls that may originate outside a county's borders depending on where the cellular tower is located that is used to route that call. This regional approach to the final products delivered at the end of each project ensures that every PSAP has the data they need for any given situation.

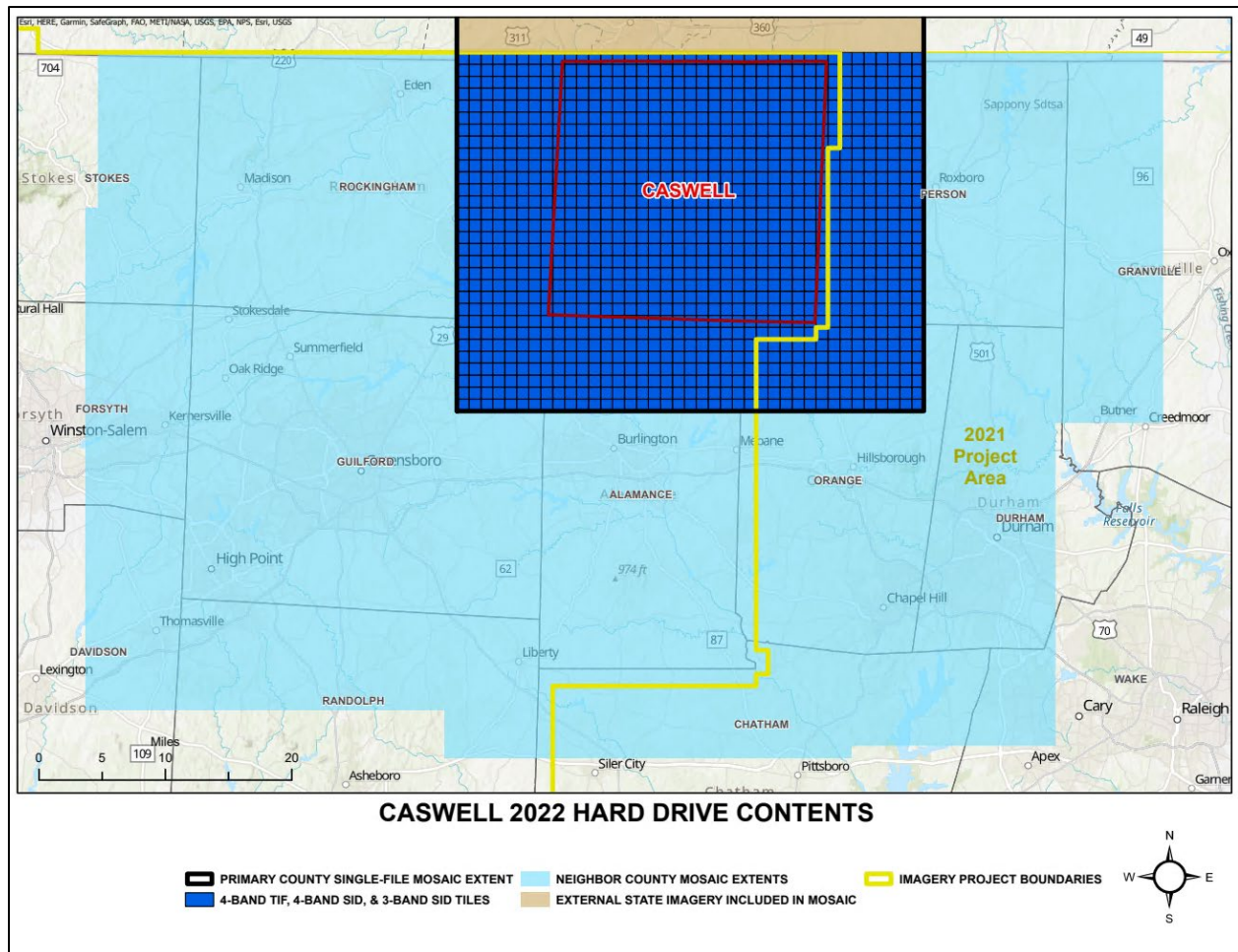


Figure 2: Map showing extents of all imagery products delivered to Caswell County Communications in 2022.

CGIA makes every effort to stay up to date with the latest trends in imagery collection and processing techniques to assess the potential for improvements to the products delivered to North Carolina PSAPs. An approach that has been a part of the program requirements since 2017 is to collect what the industry has termed, "True Orthoimagery" in urban areas that have very tall structures that may obstruct infrastructure in the surrounding area. These products require an increase in the number of flightlines over the central business districts, an increase in processing, and additional workflows and three-dimensional modeling. The resulting products eliminate all building lean so that sidewalks, roads, and ingress/egress routes surrounding the

structure are clearly visible around these very tall structures as seen in the right side of Figure 3. This approach to downtown areas will continue throughout the proposed statewide cycle.



Figure 3: Typical Nadir Orthoimagery (Left) compared with new processing requirements for tall structures (Right)

Beginning in 2020, the products produced from each phase included the 4th Band or color infrared (CIR) imagery alongside the typical 3-band, true color (RGB) product developed in past projects. In 2011, the GICC published a guide to understanding and utilizing CIR imagery (see <https://files.nc.gov/ncdit/documents/files/Using-Color-Infrared-Imagery-20110810.pdf>). This guide defines CIR as a form of imagery derived from part of the light spectrum that the human eye cannot detect. It was originally developed during World War II for the U.S. military to detect camouflaged enemy tanks and is a standard output collected by the imagery sensors used for this program. In recent years, the costs associated with this additional product have been drastically reduced due to the lower prices for computer processing hardware and storage. CIR has many uses for a variety of industries, but in terms of NG911, it greatly enhances the ability to distinguish built features and impervious surfaces, such as roads, buildings, and parking lots, from trees and other vegetation, which can be seen in Figure 4 below. The CIR product will aid in improving and validating the GIS datasets used in NG911 for street centerlines and addressing. It can also be loaded as an additional layer in conjunction with the standard orthoimagery products in certain CAD software that can aid response teams in navigating difficult terrain and highlighting man-made objects in dense vegetation. If a road or path is in dense forest, swamp, or other problematic conditions, it can become difficult to see on the base map even with leaf-off conditions. However, by turning on a false-color visualization

of the CIR data layer as see in Figure 4, roads and paths will stand out more against the red tree and vegetation features.



Figure 4: Color Infrared Imagery Example

CIR can also contribute to the processing of imagery in Artificial Intelligence (AI) and deep learning algorithms for detecting objects present in the imagery. Different deep learning models can be used to extract features, such as building footprints, impervious surfaces, pools, and solar panels. Building footprints specifically have been identified as an important framework dataset by the GICC. In July 2022, the GICC adopted a new Business Plan for Building Footprints in North Carolina (<https://it.nc.gov/media/3063/open>) that recommends a yearly maintenance program for building footprint data to follow each phase of the Statewide Orthoimagery Program by leveraging the new imagery products in automated object detection processes. This plan also outlines how critical this data is to many different stakeholders, such as NC Emergency Management for damage estimates after large storms, NCDOT Right of Way project planning, U.S. Census validation, Broadband grant planning, election confidence, fire risk mitigation, insurance assessments, historic preservation, and State Real Property mapping, among others. It highlights how building footprints can contribute to NG911 completeness assessments and 911 initial unit response plans. Figure 5 demonstrates the results of an AI Deep Learning algorithm run on the Johnston County 2021 orthoimagery to extract building footprints. Overall, the imagery from the Statewide Program contributes to many different aspects of the creation and maintenance of GIS data across the state. The inclusion of the 4th band, or CIR, has only increased these capabilities further.



Figure 5: Building footprints extracted from NC Orthoimagery using an Artificial Intelligence Deep Learning Model

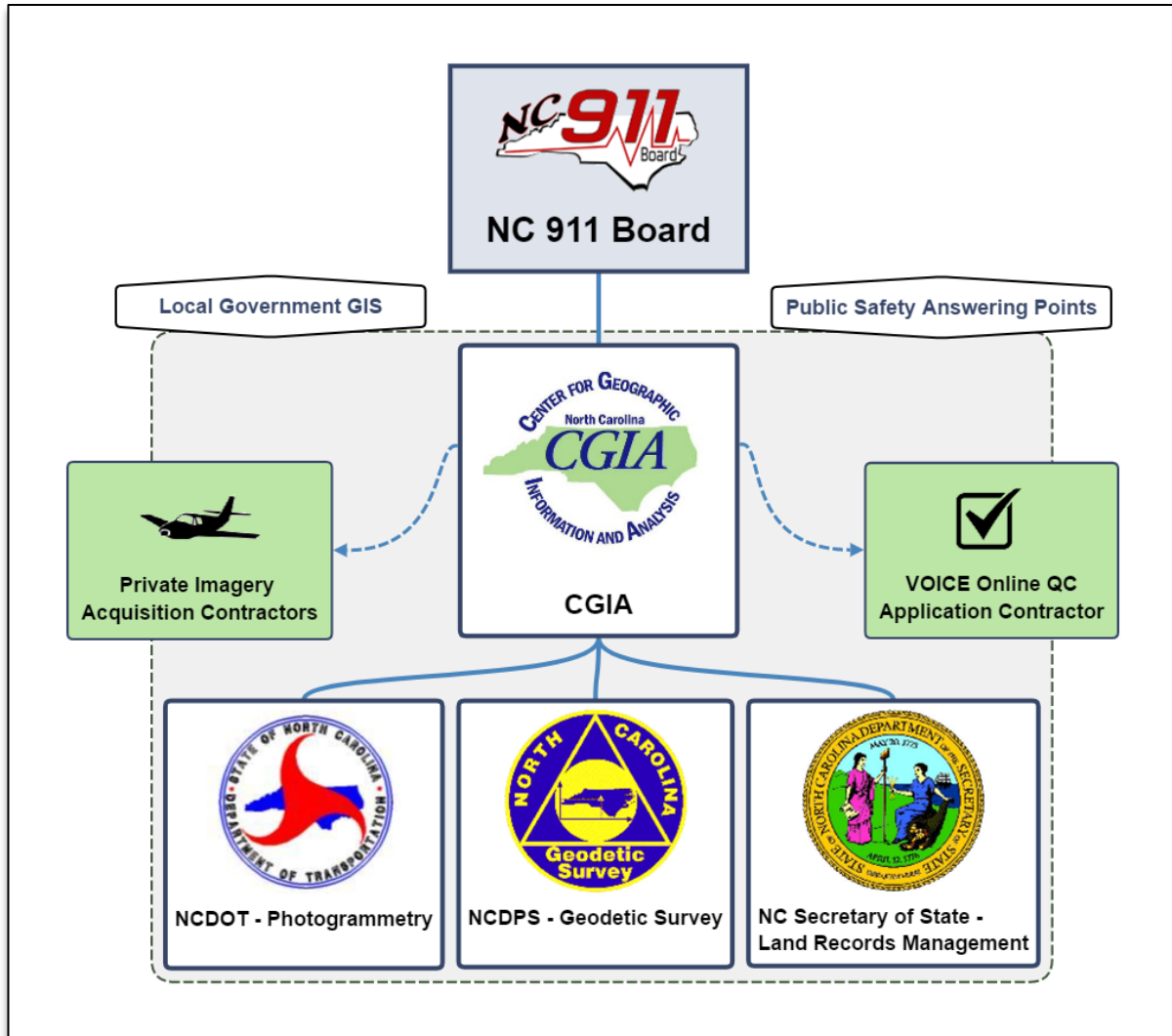


Figure 6: Project Team

Project Team Roles and Responsibilities

1. CGIA

CGIA will serve as the project manager of all third-party contractors and state partners, to include performing qualifications-based selection (QBS) procurement for private sector contractors, developing contracts, managing invoices, and documenting scope of work on the projects. CGIA will specify the detailed requirements for products and services based on *North Carolina Technical Specifications for Digital Orthophoto Base Mapping*. CGIA will also oversee all quality review activities and resolutions, manage the creation of all final orthoimagery products, coordinate outreach with Primary PSAPs and local government representatives, and ensure client satisfaction.

2. NCDOT Photogrammetry Unit

NCDOT Photogrammetry will provide advisory and technical services throughout the project phases. NCDOT has extensive expertise and experience in photogrammetry (i.e., the art, science, and technology behind obtaining reliable accurate measurements and three-dimensional data from overlapping photographs). NCDOT Photogrammetry is responsible for the technical details associated with photogrammetric processes and production which include flight and control planning, imagery acquisition, image post processing, GNSS-IMU post processing, aerotriangulation, and orthoimagery generation. GNSS-IMU comprises technology on the acquisition aircraft that uses orbiting GNSS satellites to compute the aircraft's relative position, time, and velocity at the time of each exposure collected by the sensor. GNSS-IMU is used in aerotriangulation, which is the use of ground control to spatially rectify each image to the correct location on the earth's surface. This facilitates detailed analysis of acquisition coverage requirements and compliance to the specifications outlined in the North Carolina standards for orthophotography. The NCDOT Photogrammetry Unit will evaluate and advise on all report documentation, technical data submittals, and contractor submittals. NCDOT will also perform quality review for 30% of each project.

3. NC Department of Public Safety-NC Geodetic Survey

The NC Geodetic Survey has extensive expertise and experience in managing positional quality control for orthoimagery. NC Geodetic Survey will advise on the QBS procurement process for private contractors, maintain validation range for testing and approving digital cameras, and perform horizontal quality control. They will also evaluate report documentation and technical data submittals directly related to survey control.

4. NC Department of the Secretary of State, Land Records Management Section

The Department of the Secretary of State is the author of the *North Carolina Technical Specifications for Digital Orthophoto Base Mapping*, the state standard for orthoimagery acquisition. The Land Records Management Section will advise on the QBS procurement process of private contractors, interpret the state standard for the project team as needed, and serve as a member of the state project team throughout the projects.

5. Private Contractors

Private contractors, managed by CGIA with support from collaborating members of the state project team, will perform acquisition, processing, production and delivery of orthoimagery to CGIA covering all project counties. An additional private contractor will develop and deliver an online application for quality review of the imagery product by PSAP and GIS end users in the project areas.

6. Local Governments

The Public Safety Answering Points and the local government GIS representatives are critical to the successful completion of each orthoimagery project. They will perform preliminary quality review of the product, receive final delivery of the orthoimagery from CGIA, and coordinate with project team for any product exceptions or outstanding issues. Feedback from the PSAP and GIS community validate current deliverables and support the development of future product requirements.

Costing Approach

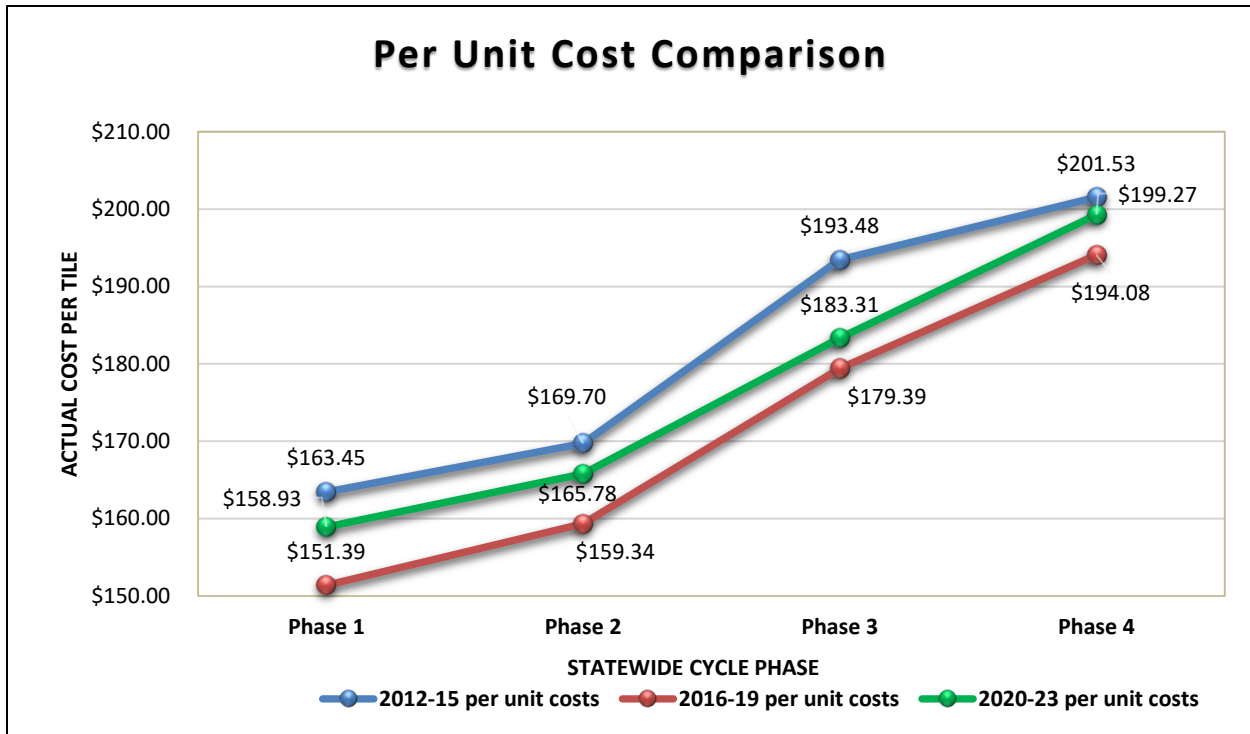


Figure 7: Previous Projects' Actual Contractor Costs per Tile of Imagery

Private contractors account for up to 90% of the budget. In as much as CGIA administers project management, it places an equal focus on the analysis of contractors' costs. Figure 7 compares per unit contractor actual costs over the past three statewide cycles. The increases in unit cost for phases 3 and 4 for all three statewide cycles in Figure 7 demonstrates the difficulty of flying in the mountains and the increased flight lines necessary to collect. As seen in the chart, the most recent statewide cycle's costs were lower than the 2012-15 cycle due to the updated statewide LiDAR elevation dataset, efficiencies from newer camera technology and lessons learned from past projects, and contract negotiations by the project team. The costs were slightly higher than the 2016-19 cycle because of normal inflation, including higher jet fuel prices as seen in Figure 8.

Over the past four projects, negotiations have resulted in a reduction of \$162,119 in acquisition contractor costs. This is a direct result of the detailed cost analysis done by the project team prior to each phase that examines past project actuals, the cost of fuel, overhead inflation, and the complexity of the study area, most notably the difficulty in the mountains. One of the biggest factors in cost is directly tied to flying the aircraft and the price of jet fuel, which can fluctuate as seen in Figure 8. Jet fuel prices must be analyzed prior to each project proposal and before contract negotiations to determine the effect on the overall project budget. Currently, jet fuel prices are at the highest point since the beginning of the program in 2012. This must be considered when forecasting costs for the next year.

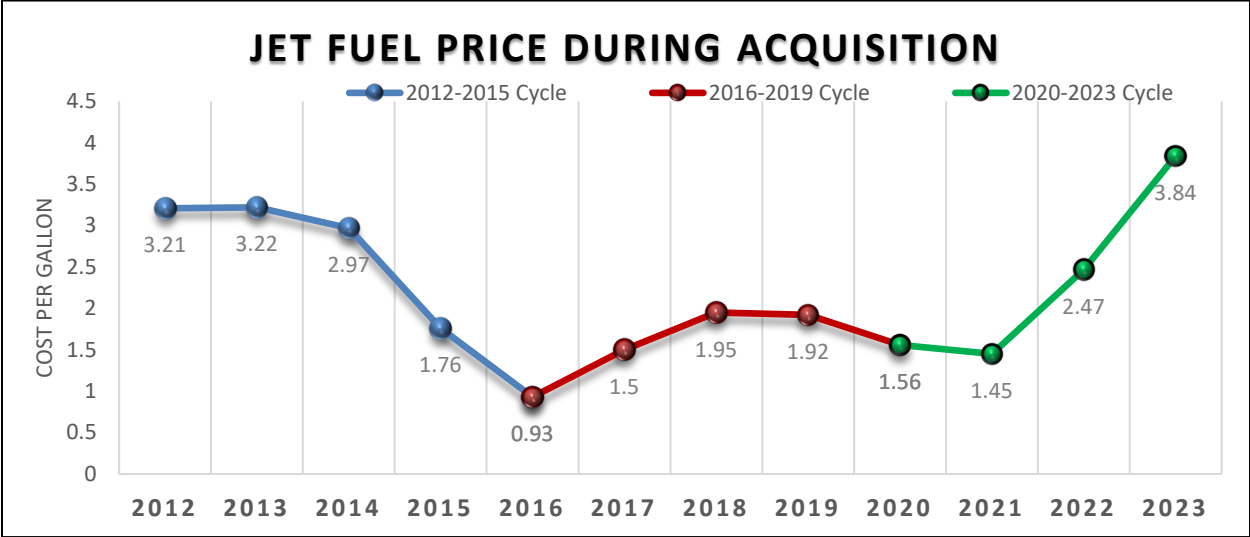


Figure 8: Jet Fuel Price Analysis

Figure 9 presents CGIA’s proposed contractor costs for the next four phases. These costs are derived from the application of the past per unit figures from Figure 7, adjusted for inflation and historical trends, to the breakdown of the project areas identified in Figure 1. The last two phases encompass a smaller geographic area, and therefore a lower projected total cost. However, the more mountainous terrain and stricter requirements for sun angle, flight planning, and weather conditions cause a higher per tile cost for those final two phases.

Overall, CGIA takes a calculated approach to ensuring the NC 911 Board funds are spent efficiently to produce the highest-quality product possible. Each project since 2012 has been delivered on time and under budget. The 2012 through 2015 statewide orthoimagery cycle was completed with a savings to the Board of \$1,180,063 below the combined budget totals from each project. The 2016 through 2019 statewide orthoimagery cycle was completed with a

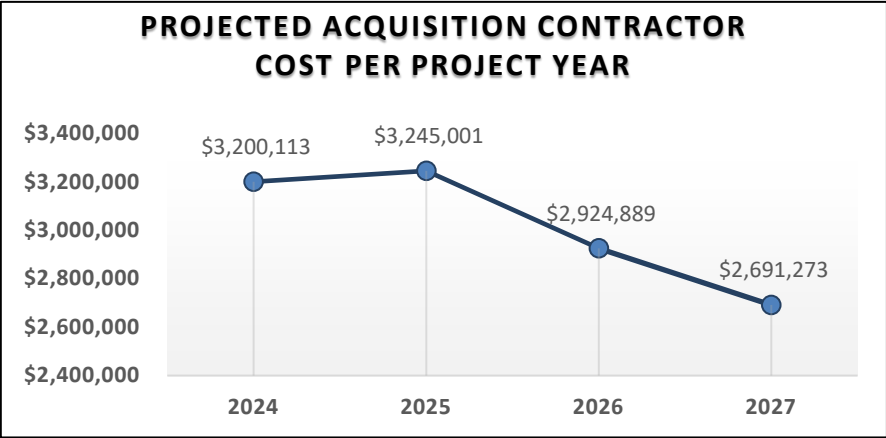


Figure 9: Projected Acquisition Contractor Budget per Project

savings to the Board of \$2,171,342 under the combined project budgets over the four years. The 2020 through 2023 statewide cycle is also projected to finish with over \$2 million in savings to the 911 Board once completed. CGIA and the project team continue to improve upon processes and timelines to maintain this trend for future efforts.

Conclusion

Prior to the first statewide orthoimagery project in 2010, the PSAPs across the state were using a patchwork quilt of imagery products of varying quality and dates. Some counties were using imagery products that were up to twenty years old as of 2002 before CGIA and the United States Geological Survey (USGS) began a cost-share program to support updating counties' outdated imagery products. Even with the cost-share assistance provided by the state, many counties could not maintain the four-year recommended refresh cycle for orthoimagery. Since 2010, PSAPs can now rely on up-to-date orthoimagery with very high spatial accuracy. With location being at the center of every call to a PSAP, the statewide orthoimagery program has put a system in place to ensure a consistent, high-resolution tool for visualizing these locations at all areas of the state.

Through the investment of the NC 911 Board and its vision to freely distribute the final imagery products to every citizen of North Carolina, there have been tremendous ancillary benefits across the state in both public and private sectors. The orthoimagery products prepared and delivered through the statewide orthoimagery program have contributed to a wide range of efforts across the state. For example, orthoimagery has played a major role in emergency planning and response, such as with Hurricanes Florence and Michael in 2018. Other uses include transportation planning, floodplain mapping, urban and regional planning, economic development, property tax re-evaluations, agriculture and forestry operations, civil engineering construction and design, land surveying, environmental impact analysis, utility mapping and many others.

CGIA as project manager and the entire project team have always made being good stewards of the 911 Board investment a top priority. Each project has been completed under budget even while the final products have improved in accuracy and quality. The team has always strived to ensure that the imagery from this program serves as the foundation to as many other efforts across the state as possible to compound the return on the investment of the Board. The total return on investment to the state is difficult to assess due to the wide range of end uses. New uses of the data continue to expand, especially when looking to the future with the AI Deep Learning models for extracting derived products, such as building footprints, from the imagery.

With the successful implementation of NG911 across the state, many of the required GIS data layers in that system will continue to benefit from the orthoimagery investment by providing a consistent source of data to create, maintain, and validate what is being loaded into NG911. As the number of calls from mobile phones continues to increase, orthoimagery will continue to be a critical tool for providing situational awareness. In summary, the past three statewide orthoimagery cycles demonstrated the value of digital aerial imagery as a fundamental, mission critical dataset for PSAPs in responding to emergencies. It has also established the statewide orthoimagery products as a vital resource for the creation and maintenance of additional important datasets and initiatives across the state.

Level of Effort and Cost

The table below provides the level of effort required to complete all four phases of the program from 2024 through 2027 based on the set of tasks described in this proposal. The four-phase refresh of orthoimagery requires an investment of \$14,061,776 over the next four years.

Item	Phase 1	Phase 2	Phase 3	Phase 4	Total
CGIA Labor	\$0	\$0	\$0	\$0	\$0
Private Contractors	\$3,200,113	\$3,245,001	\$2,924,889	\$2,691,273	\$12,061,276
Information Technology	\$25,000	\$25,000	\$25,000	\$25,000	\$100,000
NCDOT-Photogrammetry	\$162,000	\$170,000	\$162,000	\$162,000	\$656,000
NCDPS-NC Geodetic Survey	\$205,000	\$205,000	\$205,000	\$205,000	\$820,000
VOICE (QC Service Provider)	\$85,000	\$85,000	\$85,000	\$85,000	\$340,000
Travel and Miscellaneous	\$4,000	\$3,500	\$5,000	\$7,000	\$19,500
NCDCR	\$0	\$0	\$0	\$40,000	\$40,000
ESRI	\$25,000	\$0	\$0	\$0	\$25,000
Total	\$3,706,113	\$3,733,501	\$3,406,889	\$3,215,273	\$14,061,776

Table 2: Projected budget per phase and overall, for the 2024-2027 Statewide Orthoimagery Cycle.

Assumptions

- CGIA Labor is fully appropriated throughout the cycle and therefore no cost is being billed through the project budgets to the 911 Board.
- Information Technology line-item includes hard drives for delivery to PSAP, as well as Amazon Web Services (AWS) cloud computing costs for processing and creating deliverables.
- Software for serving imagery is likely to require some expense for customization, upgrades, training, and other maintenance. This is accounted for in the ESRI line item.
- The Virtual Online Inspection, Checking and Editing (VOICE) application used for the past three cycles will be continued.

A detailed schedule of each phase is presented in the Scope of Work. This schedule illustrates the concurrency across phases. The statewide orthoimagery business plan is based on a four-year refresh rate. To meet this requirement, phases of the Program must be managed with overlap. As a result, CGIA emphasizes sound project management practice to ensure major blocks of tasking within each phase are delivered on time and within budget. As an example, the most demanding period of the program occurs during the period between July and December. Technical staffing is focused on quality review; simultaneously the CGIA project team is leading QBS and startup of the next phase. CGIA has demonstrated proficiency through the lifecycle of the past three statewide cycles in managing the complexity of concurrent phases of the Program. Additionally, over the past few projects, investments in computer hardware, cloud server architecture, and implementation of more efficient workflows have facilitated delivery of final imagery products to PSAPs six weeks ahead of previous project delivery timelines. The team hopes to continue this trend by seeking additional efficiencies in the project timeline. The remainder of this proposal includes a scope of work that repeats for four phases, each representing a quarter of the state.

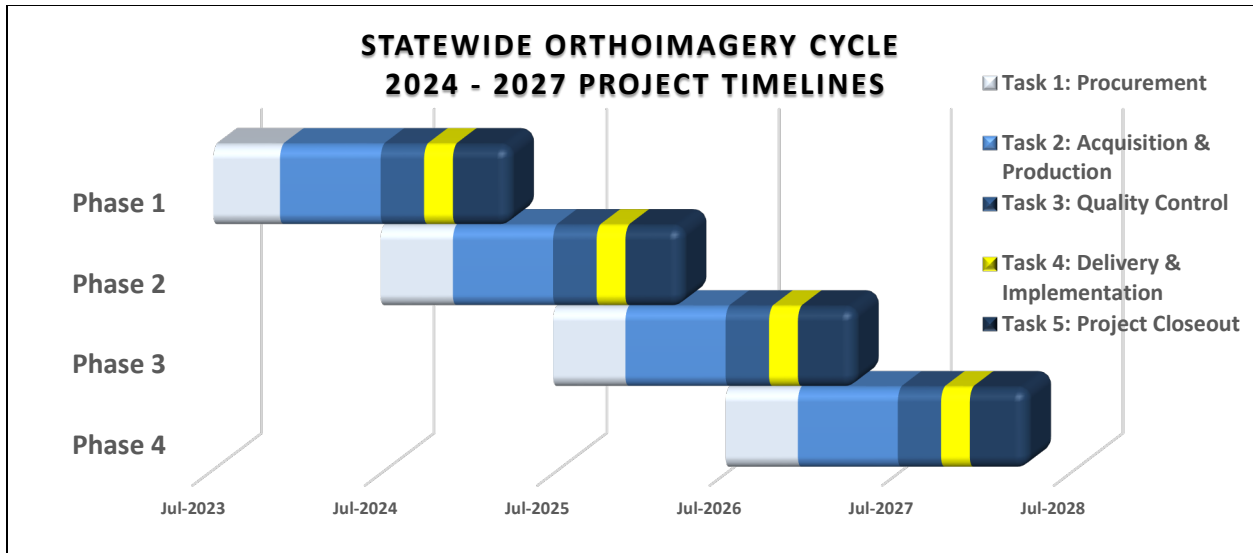


Figure 10: Statewide Cycle 2024 – 2027 Lifecycle showing overlap between projects.

Scope of Work

The scope of work consists of five distinct tasks performed by a combination of the state project team and private sector contractors.

Task 1: Qualifications-Based Selection and Procurement (July – December)

The purpose of this task is to develop contracts with public and private sector project partners and to begin other administrative tasks in preparation for orthoimagery acquisition. Specific activities under this task include:

1. Develop a statement of work, develop and execute a contract between CGIA and the NC 911 Board, and develop contracts between CGIA and the NCDOT Photogrammetry Unit and the NCDPS-NC Geodetic Survey, respectively.
2. Develop and release an RFQ and manage a QBS process for qualifying private sector contractors.
3. Select private sector contractors as a result of the QBS process and negotiate actual cost.
4. Initiate project planning, meet with project partners, and begin outreach activities with stakeholders.
5. Conduct kickoff and planning workshops with all applicable parties including project partners, contractors, and the Geographic Information Coordinating Council, Working Group for Orthoimagery and Elevation.
6. Develop core data required to support the project, develop project websites, initiate open lines of communication, and implement the project SharePoint site.
7. Finalize extents and requirements for 'true orthoimagery' development process in built-up urban areas in the project area to facilitate contract requirements for private sector contractors.

Deliverables:

- Contract between CGIA and the NC 911 Board
- Contracts between CGIA and NCDOT Photogrammetry and NCDPS-NC Geodetic Survey
- Contracts between CGIA and private sector contractors
- Project website and project SharePoint site

Task 2: Imagery Acquisition and Production (January – July)

The purpose of this task is to acquire leaf-off imagery and to perform and document all post-processing activities prior to product delivery. Prior to the flying season, the team must plan the technical details of the project, finalize technical requirements, and develop, engage, review, and approve quality compliance documentation. The flying season is driven by sun angle and vegetation per the *North Carolina Technical Specifications for Digital Orthophoto Base Mapping*, the state standard. The goals are to minimize shadows, snow, and vegetative cover that would obscure infrastructure. CGIA and the state project team, including NCDOT, NC Secretary of State, and NCDPS-NC Geodetic Survey, mandates adherence by subcontractors to the *North Carolina Technical Specifications for Digital Orthophoto Base Mapping* and invests a detailed focus on photogrammetric compliance. Specific activities under this task include:

1. Acquisition Planning. Validate digital sensors using NC's validation range and procedures. Produce and review and finalize detailed flight plans. Design and implement ground control and survey planning.
2. Review planning compliance documentation.
3. Finalize imagery specifications to facilitate consistent radiometric deliverables across varying land classifications and contractor study areas.
4. Conduct flights, acquire orthoimagery, and verify images captured meet state specifications.
5. Perform all post processing activities required to develop a tile-based orthorectified product.
6. Deliver acceptance documentation for acquisition and all post processing submittals.
7. Develop and procure agreement with the VOICE quality control application contractor.
8. Quality Control Application: Update the VOICE application based on the previous projects' user experience. The VOICE application receives the delivery of orthoimagery tiles and facilitates three levels of visual quality control (Levels 2-4 where Level 2 is a 30% quality review by NCDOT, Level 3 is a 5% review by CGIA, and Level 4 is an independent review by PSAP and local government end-users).
9. Confirm software readiness to support quality review process. Acquire hardware to facilitate receipt of processed data. Plan hosting services and software updates to accommodate online access to imagery.

10. Outreach: Perform outreach and conduct training programs for PSAPs and local government points of contact to perform quality review during the Production stage. CGIA will work with the NC 911 Board to identify the appropriate contacts.

Deliverables:

- Detailed requirements for imagery products
- Quality Review Training programs
- Reports verifying images captured meet state specifications

Assumptions

- To account for weather and leaf-off conditions, flight terms vary depending on geographic areas.

Task 3: Quality Control (July – November)

The purpose of this task is to perform the following four primary tasks:

- Complete a full circle quality review on the image deliverable product (including review, issues submittal, resolution, resolution submittal review, and signoff).
- Develop secondary image format of 3-band (RGB) images after satisfactory signoff and delivery of the TIFF product.
- Develop additional imagery products of false-color color infrared images from delivered TIFF product.
- Implement DIT hosting services and procurement and initiate data loading onto NC OneMap.
- Open communications for final delivery.

Specific activities under this task include:

1. Finalize and secure DIT hosting services and perform initial image data loading onto DIT servers.
2. Conduct Level 1 quality review by imagery processing contractors to assure the imagery meets state specifications and is free of systematic error or systematic visual quality issues and to verify the quality and completeness of the product.
3. Conduct Level 2-4 quality review through the VOICE application, identify valid issues, and submit and receive revised imagery from imagery processing contractors.
4. Develop a MrSID format 20:1 compression file for each 3-band (RGB) tile in the county and a 50:1 compression format that represents an entire county mosaic. CGIA will request feedback from PSAP and local government end-users to determine exceptions to the delivered compression format.
5. Develop a MrSID format 20:1 compression file for each 4-band (CIR) tile in the county and a 50:1 compression format that represents an entire county mosaic of the CIR product.
6. Complete horizontal quality control and review process.

7. Work with Primary PSAP contacts to set and schedule early December delivery meetings.
8. Package imagery products on portable disk drives to include delivery of final imagery in GeoTIFF format, MrSID compressed format, metadata, and other applicable documentation. This also includes the logistics to maintain master copies of the GeoTIFF tiles, MrSID tiles and mosaics, finalize metadata files, assemble neighbor imagery, and collect other applicable data relevant to the primary county.

Deliverables:

- Quality control reports per county

Assumptions

- GeoTIFF product release by the processing contractor(s) will occur no later than seven months after completion of flights.
- The Public Safety Answering Points and the local government GIS representatives perform early quality review of the product as part of the Level 4 quality review through the VOICE application.

Task 4: Implementation (November – December)

The purpose of this task is to deliver the final orthoimagery product to each PSAP including prior phase data as well as imagery seven miles into Georgia, South Carolina, Tennessee, and Virginia, implement release of data on NC OneMap, and evaluate each county's quality review (60-day evaluation period).

1. Product Delivery: This task includes the distribution of data to each PSAP.
2. NC OneMap Implementation: CGIA will load the imagery into the NC OneMap database for public access as imagery services and as downloadable compressed imagery. The storage and maintenance will be continuous through the four cycles of quarter-state imagery acquisition.
3. 60-Day Evaluation: Each PSAP and county GIS office will evaluate the delivered product(s) during a period of 60 days to validate completeness or defectiveness or the existence of quality issues. CGIA will work with PSAPs to deliver exceptions and/or resolve outstanding data with contractors.

Deliverables:

- Final orthoimagery in GeoTIFF and MrSID formats
- NC OneMap release

Assumptions

- States of Georgia, South Carolina, Tennessee, and Virginia will supply data either directly or through their respective county governments

Task 5: Project Closeout (February – April)

The purpose of this task is to perform project management and other activities relevant to project closeout and procurement. This includes evaluating final contractor invoices and issuing final payment after state acceptance of all deliverables. This task also involves resolving and accepting final delivery of outstanding documentation, including final and lessons learned reports by acquisition contractors, to finalize contractor performance evaluations, conclude contractor agreements, to develop and deliver the final project report, and to perform project management closeout.

Deliverables:

- Final Report

Summary of 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. Imagery will be consistent with the *North Carolina Technical Specifications for Digital Orthophoto Base Mapping*, Land Records Management Section, North Carolina Department of the Secretary of State.
4. Metadata in txt, HTML, and XML for (one record per format per county)
5. Statewide and county tile index
6. Elevation data if modified
7. NC OneMap image services

Reports and Requirements

1. Weekly status meeting minutes and contractors' status reports
2. Monthly invoicing, status, accomplishments, and plans
3. Distribution schedules
4. Reports include Flight Planning, Survey Control, Imagery Acquisition Compliance, Exploitation Image Post Processing, Airborne GPS Post Processing, Aerotriangulation, Orthoimagery Delivery, Quality Review Resolutions and Final Report.

Schedule

Table 3 outlines the schedule for the first of four phases. It assumes that approval to proceed is granted by the NC 911 Board in May 2023. The subsequent phases will follow the same schedule as demonstrated in Figure 11.

Task	Begin	End
1: Qualifications-Based Selection and Procurement	July 2023	December 2023
2: Imagery Acquisition and Production	January 2024	July 2024
3: Quality Control	July 2024	November 2024
4: Delivery	November 2024	December 2024
5: Project Closeout	February 2025	April 2025

Table 3: Project Schedule for Phase 1



Figure 11: Standard Orthoimagery Project Lifecycle



*State of North Carolina
Department of the Secretary of State*

ELAINE F. MARSHALL SECRETARY OF STATE

RICHARD A ELKINS, GISP LAND RECORDS MANAGER

8 February 2023

Tim Johnson, GISP
Director, Center for Geographic Information and Analysis
20322 Mail Service Center
Raleigh NC 27699-0322

Mr. Johnson:

As the holder of Orthophotographic Standards in the state, the North Carolina Department of the Secretary of State is interested in continuing its relationship with the Center for Geographic Information and Analysis (CGIA) as a member of the team overseeing the statewide orthophotography acquisition program renewing in 2024.

Assisting the various counties across the State of North Carolina with their base maps is one of the major duties of the NC Department of the Secretary of State's Land Records Management Program. We see working with the CGIA to oversee the orthophotography program as one of our key responsibilities to accomplish that duty.

Sincerely,

Richard A. Elkins, GISP
State Land Records Manager
North Carolina Secretary of State



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

February 10, 2023

Mr. Tim Johnson, GISP
NC Geographic Information Officer
NC Center for Geographic Information & Analysis
20322 Mail Service Center
Raleigh, NC 27699-0322

Subject: NCDOT Photogrammetry Unit Support for Proposed 2024-2027 E911
Orthoimagery Program

Dear Mr. Johnson:

NCDOT Photogrammetry is excited for the opportunity to continue its role providing advisory and technical services to CGIA on the 2024-2027 E911 Orthoimagery Program. The following is a brief overview of the services NCDOT Photogrammetry proposes to provide along with an estimated fee schedule.

Since NCDOT Photogrammetry owns and operates much of the same equipment and software that the production vendors use to deliver orthoimagery, it is uniquely qualified as the state's subject matter expert in photogrammetric processes including flight and control planning, aerial photography acquisition, image post processing, GPS-IMU post processing, aerotriangulation, digital terrain models, and orthoimagery generation. Photogrammetry Unit staff will provide technical support to CGIA for project planning, qualifications development, RFQ development, qualification-based vendor selection, scope of work development, and assessment and formal evaluation of vendor performance for the above cited photogrammetric processes. Photogrammetry Unit staff will also support CGIA in developing the project review tile schema, landcover image samples, and image post processing guidelines. NCDOT Photogrammetry will also review at least 30% of the orthoimagery image tiles and if needed, provide MrSID conversion for all orthoimagery tiles.

Reviewing the evolution of the E911 Orthoimagery Program between 2012-2023 the NCDOT Photogrammetry Unit has expanded and refined its ability to assess and document vendor performance in photogrammetric processes. However, NCDOT current migration to the Bentley OpenX platform has made it necessary for the Photogrammetry Unit modify and adjust our existing processes and even developed new ones for our operations. Specifically, the Photogrammetry Unit need to redesign the software that was used for flight planning verification and image acquisition verification. Also, due the difficulty of recruiting staff for the lower technical services positions, several of the required tasks have to be completed by upper level technical staff within the Photogrammetry Unit. Therefore, the proposed cost for the E911 and CGIA for the

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RALEIGH, NC 27610

2024-2027 projects represents a slight increase from the previous years. NCDOT labor rates are based on all the individuals in the NCDOT (not just in the Photogrammetry Unit), so these rates significantly fluctuate and change quarterly. There has also been salary increases across all positions in the NCDOT and several staff advancement within with the unit. With these factors in mind, NCDOT Photogrammetry proposes the following estimated cost to perform advisory and technical services for the 2024-2027 E911 Orthoimagery Program.

Year	Estimated Cost for NCDOT Photogrammetry Unit Advisory & Technical Services
2024	\$162,000.00
2025	\$170,000.00
2026	\$162,000.00
2027	\$162,000.00
TOTAL	\$656,000.00

Sincerely,



Richard Greene, PhD, PE, PLS
State Photogrammetric Engineer

RG:

cc: Mr. Matt Clarke, PE – NCDOT Director of Technical Services



North Carolina Department of Public Safety

Emergency Management

Roy Cooper, Governor
Eddie M. Buffaloe, Jr., Secretary

William C. Ray, Director

MEMORANDUM

TO: Tim Johnson, Director
Center for Geographic Information and Analysis
NC Department of Information Technology

FROM: William C. Ray, Director & Deputy Homeland Security Advisor *WCR*
North Carolina Division of Emergency Management

DATE: 14 February 2023

SUBJECT: North Carolina Geodetic Survey's role in the 2024-2027 imagery project

North Carolina Emergency Management, through the North Carolina Geodetic Survey, supports the project proposal, and we look forward to being part of the project team in completing this critical project for the Public Safety Answering Points (PSAPs) and the State of North Carolina.

NCEM/NCGS will perform the following tasks in the 2024-2027 statewide aerial imagery project:

- A. Serve on the project's management team and attend management team meetings
- B. Assist contractors with surveying related questions during imagery contract period
- C. Review proposals and make recommendations as part the Qualifications-Based Selection (QBS) selection team
- D. Operate and maintain the North Carolina Continuously Operating Reference Station (CORS) Network and the North Carolina Real-Time Network (RTN)
- E. Manage and perform field horizontal quality control (QC) surveys by independent state and/or private contractors
- F. Maintain the camera validation range located near Mount Airy, NC

Mailing Address:
4298 Mail Service Center
Raleigh, NC 27699-4298
www.ncdps.gov/ncem
ncgs.state.nc.us



Office Location:
200 Park Offices Dr., Suite 100
Durham, NC 27713
Phone: 919-733-3836
Fax: 919-733-4407

For a more detailed description on tasks D-F, please find additional information below:

D. Operate and maintain the North Carolina CORS Network and the North Carolina RTN

- Upgrade the Global Navigation Satellite System (GNSS) receiver, at each CORS site when the equipment has reached the end of its useful technology lifecycle [i.e., not repairable or there is an upgrade that could receive signals from the Chinese BeiDou (Compass) satellites or the European Union's Galileo satellites]
- Maintain the latest version of software/maintenance in each CORS and RTN network server and the latest firmware in each GNSS receiver
- Add CORS sites to the network when needed to support the project, regardless of whether or not these sites meet the National Geodetic Survey (NGS) minimum spacing requirement, in order to fill any coverage voids
- Operate and maintain the two FTP servers (main and backup) to store the CORS data files that are collected hourly for post-processing applications
- Provide CORS data to the NGS for use in the Online Positioning User Service (OPUS) application as well as their User Friendly CORS (UFCORS) download site

E. Manage and perform field horizontal quality control (QC) surveys by independent state and/or private contractors

- Utilize a QBS process to qualify firms to perform the horizontal QC surveys
- Determine the location of new QC points
 - Provide information packages to the contractors
 - Review and manage the field data collection phase performed by the contractors
 - Review and manage the field data collection phase performed by NCGS staff
 - Analyze the aerial imagery utilizing the horizontal QC data
 - Produce the following reports that would be signed and sealed by a Professional Land Surveyor (PLS):
 - Final consolidated report for each project phase
 - Will contain a QC report for each county in project phase

F. Maintain the camera validation range located near Mount Airy, NC

- Inspect each aerial target and perform maintenance on any target that has been damaged or is no longer visible
- Replace any QC point that has been destroyed or is no longer visible

For additional questions or needed discussion, please contact Mr. Gary Thompson, NCEM Deputy Hazard Mitigation Chief and NCGS Chief, at gary.thompson@ncdps.gov.

WCR/gwt

Tab 11

Executive Director's Report

Pokey Harris

Tab 11 a)

**911 Board Member Round-
Robin Introductions**

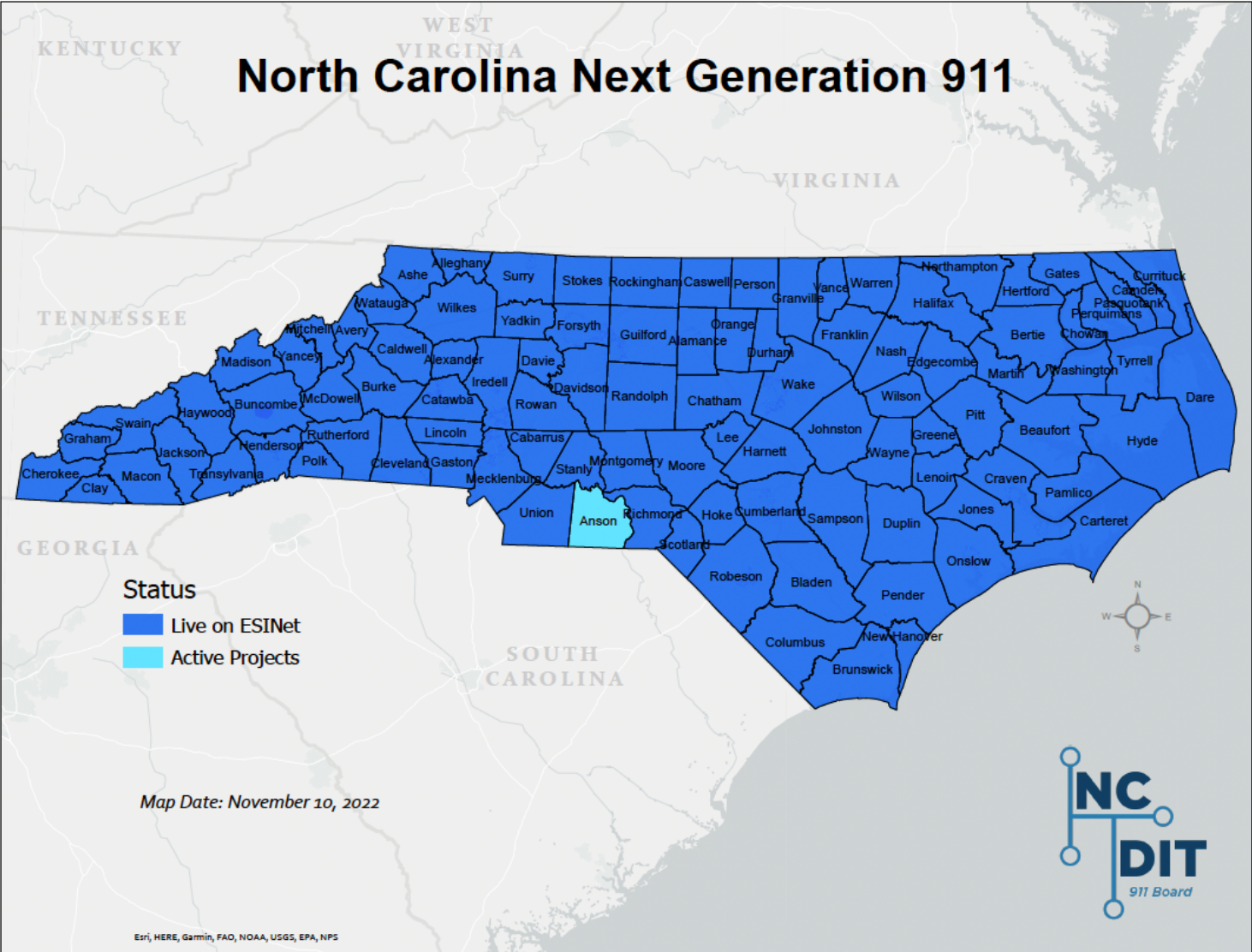
Tab 11 b)

Biennial Audit Status

Tab 11 c)

NextGen 911 Migration Status

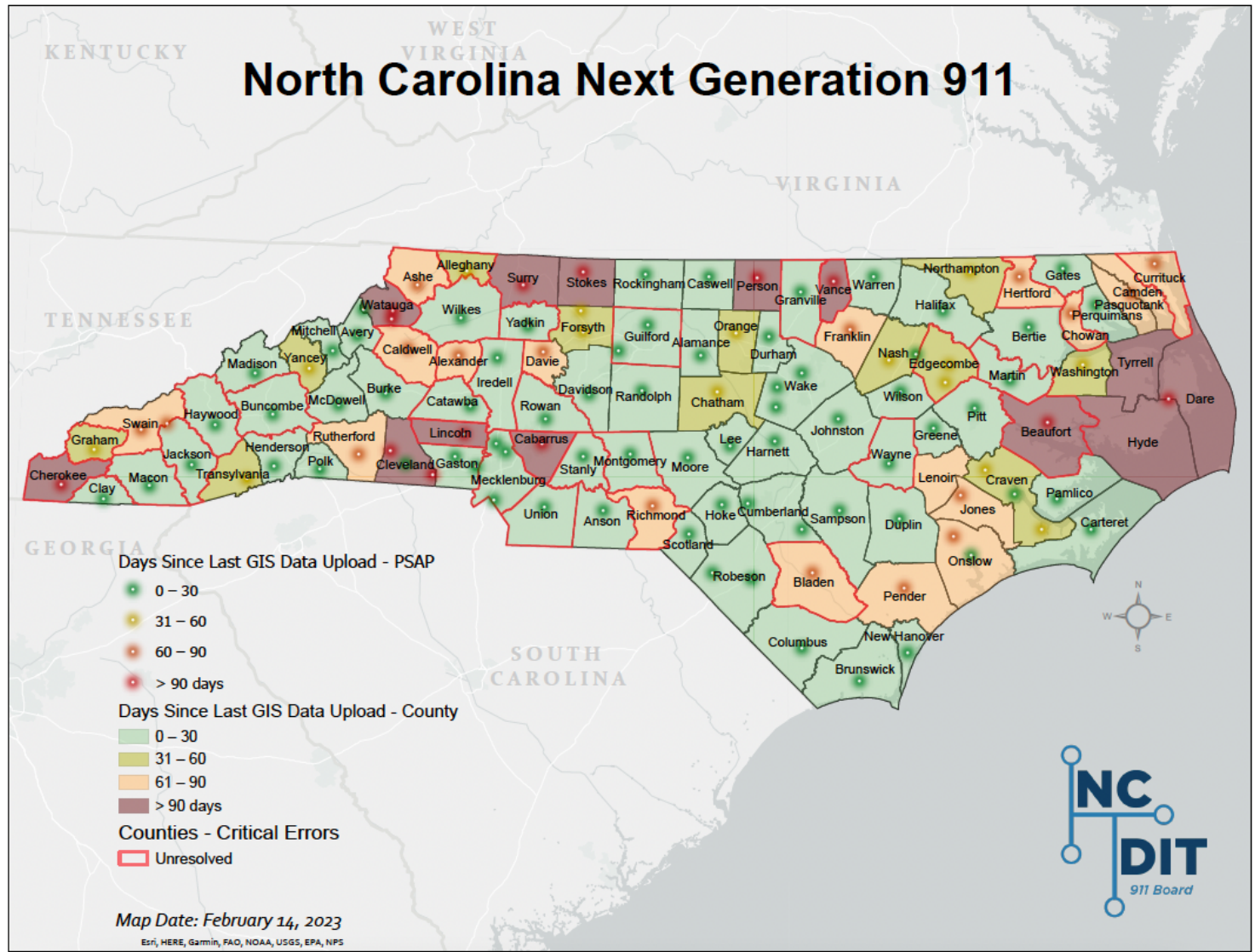
NC NG911 Migration Status



Tab 11 d)

NextGen 911 GIS Status

NC NG911 GIS Status



Tab 11 e)

**RCC 911 Communications and
Operations Associate Degree
Update**

Tab 11 f)

**Cybersecurity Remediation
Initiatives Update**

Tab 11 g)

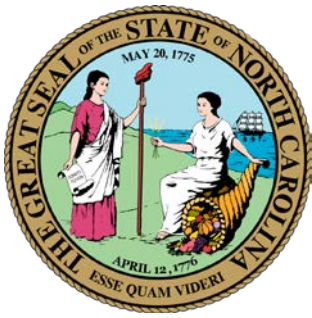
**PSAP Assessment Coordinator
Position Update**

Tab 11 h)

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

Tab 11 i)

**NASNA Interoperability Workshop
Report**



North Carolina Emergency Communications Interoperability Initiatives

Representatives from the State of North Carolina came together in a concentrated setting to discuss common goals and synergies for public safety interoperable communications across their disciplines. In North Carolina, the Statewide Interoperability Coordinator (SWIC) and the 911 Director have a strong working relationship—the SWIC is a former member of the 911 Board that currently sits on the Board’s Technology and Grant committees, and the 911 Director sits on the Interoperability Board and has input to the statewide communications interoperability plan (SCIP). North Carolina believes it is important that 911 plan and SCIP align; with 126 public safety answering points (PSAPS), the SWIC looks at the alignment as a great way to capture data to improve interoperability on blue-sky days for help during disasters. The team identified what they would like to achieve, including a comprehensive cyber program for all state and local governments including public safety, free flowing information to the right people at the right time, and more competitive purchasing options to streamline technology procurement for all public safety with the use of best practices.

North Carolina’s overarching interoperability goals, shown below, are a result of three workshop sessions.

GOAL 1: INCREASED PSAP DATA SHARING AND INTEROPERABILITY

ACTIVITY: COMPLETE DATA DISCOVERY TO ESTABLISH A BASELINE OF AVAILABLE DATA AND PRIMARY DATA NEEDS

ACTIVITY: DEVELOP APPROACH TO ESTABLISH COORDINATED DATA SHARING GUIDELINES

GOAL 2: LOCAL GOVERNMENT ACCESS TO THE STATE’S ALERT AND WARNING SYSTEM(S) THROUGH A SHARED COST MODEL

ACTIVITY: DEVELOP PROCUREMENT, IMPLEMENTATION, AND SUSTAINMENT PLAN FOR MULTI-LINGUAL STATE-HOSTED SYSTEM

ACTIVITY: DEVELOP COMMUNICATIONS PLAN AND CONDUCT OUTREACH TO LOCAL GOVERNMENTS

GOAL 3: AMEND LEGISLATION TO CODIFY THE SWIC POSITION

ACTIVITY: PROVIDE MODEL LANGUAGE

GOAL 4: ENSURE CYBERSECURITY AND PRIVACY ARE HIGHLY PRIORITIZED IN ALL ASPECTS OF THE PUBLIC SAFETY COMMUNICATIONS ECOSYSTEM

ACTIVITY: ESTABLISH CYBERSECURITY FRAMEWORK THAT ALIGNS TO THE STATE PLAN AND 13

ACTIVITY: CONDUCT EDUCATION AND OUTREACH TO LOCAL AGENCIES AND COLLABORATE WITH THE CYBER GOVERNANCE BODY



Background

The National Association of State 911 Administrators (NASNA) in conjunction with the National Council of Statewide Interoperability Coordinators (NCSWIC), the Emergency Communications Division (ECD) of the Cybersecurity and Infrastructure Security Agency (CISA), and the 911 Program Office at the National Highway Traffic Safety Administration (NHTSA) is engaging all 50 states through a series of interoperability workshops—with the goal to discuss emergency communications interoperability—and state breakout sessions focused on state-specific planning.

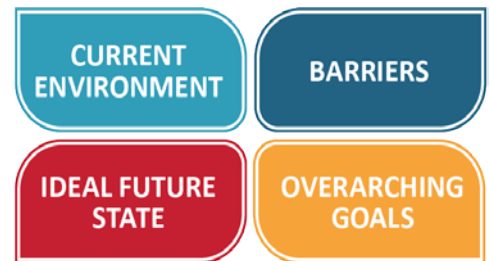
PRIMARY OBJECTIVES OF WORKSHOPS

- 1 Bring state emergency leadership together to effectively communicate and collaborate
- 2 Develop statewide goals and actionable steps for states to work toward improving emergency communications interoperability
- 3 Facilitate state conversations on how to deepen and enhance emergency communications governance structures to facilitate greater interoperability and decision-making

Through this project, subject matter experts are facilitating the development of overarching interoperability goals that will encompass emergency communications statewide, including 911, public safety radio systems, and alerts and warnings. Through the interoperability workshops, the states are collaboratively identifying goals and objectives, as well as accountability strategies for implementing their goals.

Methodology

The Emergency Communications Interoperability Workshops consisted of several panels and presentations discussing key topics in emergency communications, and state breakout sessions focusing on state-specific planning. These breakout sessions allowed each state team to capture a robust picture of their current environment regarding public safety communications interoperability, brainstorm their ideal future state and the barriers to getting there, and finally set overarching goals to improve their state's emergency communications interoperability, as well as develop a strategy for accountability and achieving their goals.



The fourth workshop was held on September 13 and 14, 2022, in Washington, D.C. Participants from North Carolina were:

- Pokey Harris—Executive Director, North Carolina 911 Board
- Greg Hauser—Statewide Interoperability Coordinator, North Carolina Emergency Management
- Monica Fuller—Legislative Liaison, North Carolina Department of Information Technology
- Amanda Reeder—Board Counsel, North Carolina 911 Board
- Tom Rogers—NG911 Network Engineer, North Carolina 911 Board

This report identifies North Carolina's interoperability goals and actionable steps for achieving these goals, as determined by the state's team in the interoperability meetings. The comprehensive breakout session notes were provided to North Carolina by Mission Critical Partners, which include further details on the goals and related activities.

Tab 11 j)

**NENA/Standards and Best
Practices Conference Update
(January 2023)**

Tab 11 k)

**Recognition of Kristen Falco for
Nomination to National Society of
Leadership and Success**

Tab 11 l)

**Recognition of Durham's
Accredited Center of Excellence
(ACE) Award**

Tab 11 m)

**911 Board/NMAC/Administrative
Staff “Home”**

(Roll Call Vote Required)

Greg Dotson

Tab 11 n)

Legal Brief

Amanda Reeder

Tab 12

Executive Committee Report

**Jim Weaver/Pokey Harris/Amanda
Reeder**



MINUTES

NORTH CAROLINA 911 BOARD EXECUTIVE COMMITTEE MEETING

Friday, January 27, 2023
10:00 AM

Via Microsoft Teams Meeting

Call to Order – The meeting was called to order at 10:02 a.m.

Roll Call – Ms. Harris recorded attendance as follows: David Bone, Greg Coltrain, Bo Ferguson, Monica Fuller (DIT legislative liaison), Chuck Greene, Pokey Harris, Amanda Reeder, Jim Weaver, and Donna Wright.

The Executive Committee convened on this date for review and discussion of the proposed resolution, *The First First Responder Resolution*. This resolution is being introduced to recognize the value of North Carolina 911 telecommunicators and the critical role they serve in the life cycle of care.

There was discussion about the history of telecommunicators and how they currently are recognized as serving in administrative roles and not part of public safety. All agreed these professionals serve a unique role, managing multiple calls of an emergent nature while operating multiple high-tech emergency services delivery platforms to handle all elements of each call in an efficient manner to ensure the appropriate response is provided. It was further agreed these individuals are presented with stressors that are different from those of other first responders within their respective disciplines.

Further discussion highlighted that the Committee in no way wishes for a resolution to imply the Board is demanding or even requesting a classification of telecommunicators that equates to increased compensation or benefits packages, but to reframe the role they assume because of the complexity of communications for emergency response. Personnel decisions are the responsibility of the locality and outside of the purview of the 911 Board. It is hopeful the resolution will bring awareness to the role of the telecommunicator to parlay this into legislation that would support recognition as first responders. But again, noting from a Board perspective salaries and benefits are strictly set on the local level. The goal of the Board's action with a resolution and any future legislation is to bring respect and recognition to all telecommunicators.

Of particular note, Ms. Wright highlighted that telecommunicators are not able to take advantage of support for PTSD-type claims nor the additional support and therapy for this. She referenced that because of the lack of federal classification as first responders, insurance companies do not acknowledge telecommunicators for such services. With more states creating this classification, it will certainly be beneficial in reintroducing telecommunicator classification on the federal level.

It was the consensus of the members for staff to create a one-page informational document that can serve as the talking points when any of us are speaking to this resolution. It should include historical notations about the role of the telecommunicator, the complexity of the current roles and responsibilities, and the Board's role in serving as an advocate for this recognition but clearly acknowledging the authority of the locality regarding personnel compensation.

Ms. Harris clarified an inquiry by Mr. Bone, as although this subject had come up for discussion a few years ago, there was no action by the Board, nor was any legislation introduced or passed. Mr. Bone did ask about the timeline for moving this forward. Ms. Fuller advised February 8 is the deadline for filing. This will include any work necessary for draft changes.

Ms. Fuller advised she has spoken with Representative Robeson, and he has agreed to support the resolution. Additional contact has been made with the Sheriff's Association, Police Chief's Association, Firefighter's Association, Durham Mayor, and Durham Mayor Pro Tem. Each of these has offered to provide a letter of support. Ms. Fuller noted she will learn more next week as to who will lead the effort on the House and that it could be presented in May. On the Senate side, this would be presented as a Senatorial Statement for vote. Ms. Wright also reminded Ms. Fuller to reach out to both North Carolina APCO and NENA chapters for letters of support.

In a recap of the discussion points, Ms. Harris advised that she would work with Ms. Reeder and Ms. Fuller to get the one-pager crafted quickly so it is ready prior to the February 8 filing deadline. Mr. Bone also requested that the full Board be provided with this document along with the recommendation of the Executive Committee. Ms. Harris noted she would ensure the Board receives this information. She also stated this would be shared with all staff as a consistent point of reference when conveying the action of the Board to PSAP and jurisdiction leadership.

To formalize the discussion and desire of the Committee, Mrs. Wright made the motion to move forward with the resolution, having staff work accordingly with bill drafting for preparing of filing. Mr. Ferguson seconded the motion, and it passed unanimously via roll call vote with all members voting in the affirmative.

Adjourn – The meeting adjourned at 10:55 a.m.



Tab 12 a)

NC Telecommunicator Recognition

- i. Representative Statement**
- ii. Senatorial Statement**



A REPRESENTATIVE STATEMENT HONORING 911 TELECOMMUNICATORS

WHEREAS, 911 Telecommunicators are an essential part of the public safety infrastructure in this State; and

WHEREAS, 911 Telecommunicators are trained to play a critical role in emergency response as the first line of communication for persons needing law enforcement officers, fire, or medical response and serve as a lifeline to law enforcement officers, fire, and medical response personnel in the field; and

WHEREAS, 911 Telecommunicators serve 24 hours a day, seven days a week, the same as firefighters, law enforcement officers, and emergency medical services workers; and

WHEREAS, 911 Telecommunicators make the same sacrifices in their personal lives as firefighters, law enforcement officers, and emergency medical services workers by leaving their families, friends, and the safety of their homes to handle the emergency 911 calls that save the lives, protect the property, and ensure the safety of their community during emergency events; and

WHEREAS, 911 Telecommunicators heroically answer emergency 911 calls around-the-clock whereby they provide medical guidance, instruct callers on staying safe in extremely trying and often terrifying situations, and help guide callers to safety during disasters, while simultaneously dispatching field units to the emergency situations; and

WHEREAS, 911 Telecommunicators routinely toggle between several calls at the same time, while working with multiple high tech emergency services delivery platforms to manage all elements of each call to efficiently and smoothly process and dispatch 911 and non-emergency pressing calls, responding to each call professionally, which presents a unique stressor within the first responder world; and

WHEREAS, 911 Telecommunicators must handle the stress of answering 7 million calls each year – one after another, daily – while serving as the voice of calm in chaos and providing assistance during a call that may represent the worst day of the caller's life. On a daily basis, 911 Telecommunicators hear cries of devastation and screams for help and serve as the support as citizens cope with the loss of loved ones; and

WHEREAS, 911 Telecommunicators handle all of these stressful situations for the callers while working to keep their fellow first responders in the field safe;

NOW, THEREFORE, 911 Telecommunicators perform a crucial role in the public's safety and should be recognized as "First Responders" and shown appreciation for the dedication and service they render to their communities and the State of North Carolina.

IN WITNESS WHEREOF, the undersigned certifies that the foregoing statement was read in the House and placed upon the Journal on the _____ day of _____, 2023.

Submitted by Representative James Roberson

House Principal Clerk



A SENATORIAL STATEMENT HONORING 911 TELECOMMUNICATORS

WHEREAS, 911 Telecommunicators are an essential part of the public safety infrastructure in this State; and

WHEREAS, 911 Telecommunicators are trained to play a critical role in emergency response as the first line of communication for persons needing law enforcement officers, fire, or medical response and serve as a lifeline to law enforcement officers, fire, and medical response personnel in the field; and

WHEREAS, 911 Telecommunicators serve 24 hours a day, seven days a week, the same as firefighters, law enforcement officers, and emergency medical services workers and the same sacrifices in their personal lives; and

WHEREAS, 911 Telecommunicators heroically answer emergency 911 calls around-the-clock whereby they provide medical guidance, instruct callers on staying safe in extremely trying and often terrifying situations, and help guide callers to safety during disasters, while simultaneously dispatching field units to the emergency situations; and

WHEREAS, 911 Telecommunicators routinely toggle between several calls at the same time, while working with multiple high tech emergency services delivery platforms to manage all elements of each call to efficiently and smoothly process and dispatch 911 and nonemergency pressing calls, responding to each call professionally, which presents a unique stressor within the first responder world; and

WHEREAS, 911 Telecommunicators must handle the stress of answering 7 million calls each year. They also handle all of these stressful situations for the callers while working to keep their fellow first responders in the field safe;

NOW, THEREFORE, 911 Telecommunicators perform a crucial role in the public's safety and should be recognized as "First Responders" and shown appreciation for the dedication and service they render to their communities and the State of North Carolina.

IN WITNESS WHEREOF, the undersigned certifies that the foregoing statement was read in the Senate on the _____ day of _____, 2023.

Submitted by Senator Mujtaba A. Mohammed

Senate Principal Clerk

911 Telecommunicators are North Carolina's "First" First Responders

In North Carolina, over 3000 dedicated citizens work as 911 Telecommunicators. Their work includes processing over 7 million 911 calls per year, along with other assigned tasks, such as answering administrative calls and data processing.

Historically, at all levels of government, 911 Telecommunicators have been treated as serving in administrative or call center roles, in part because they perform administrative tasks in their "downtime" when not actively answering 911 calls. They are not recognized as part of the public safety network in this State. This mischaracterizes the daily role of the telecommunicator, who acts as the "first" first responder in most emergencies, interacting constantly and directly with callers experiencing stressful and traumatic events. In this role, it is not uncommon for the Telecommunicator to hear a shot when a caller commits suicide, calm a frantic mother while instructing her on how to staunch massive bleeding on her injured child, or even hear field officers scream in pain while being assaulted.

When an emergency involving fire, law enforcement, or medical crisis arises, the public calls 9-1-1, expecting to receive prompt and skilled assistance. Often, the caller is disoriented, distracted, or still living through the emergency situation and unable to fully convey the issues he or she is calling about. The 911 Telecommunicator is trained to professionally respond to the caller to get important information about the emergency and relay that information to the first responders in the field. This gathering of information from the caller and dispatching of the same occurs simultaneously while the 911 Telecommunicator enters data into highly complex technological platforms to ensure rapid and correct response. Additionally, North Carolina law requires 911 Telecommunicators to be trained to provide life-saving medical guidance when the situation calls for it.

The goal of North Carolina 911 Board in pursuing these House and Senatorial Statements is to clarify that telecommunicators do not serve in administrative roles, but instead, they are an essential part of the public safety network. These individuals deserve recognition and respect for the difficult role they serve in ensuring the safety of North Carolina's citizens and visitors.

The 911 Board supports telecommunicators for their tireless work in helping to protect North Carolinians and encourages the legislature to do so, too. The Board seeks recognition for the difficult job these individuals have. This recognition includes acknowledging the severe mental strain this job creates, given the constant stress of dealing with highly traumatic calls, 24 hours a day, every day of every year.

The Board encourages employers to consider these individuals part of their public safety network when setting compensation. The Board respects that telecommunicators are local government employees, and does not compensate telecommunicators nor does it set salaries for these individuals. However, the Board encourages the employing local governments to recognize the telecommunicators for their difficult job.

911 Telecommunicators

Respect – Recognition – Responding to the Call



Tab 12 b)
General Committee Report

Tab 13
Education Committee Report
Chuck Greene

Tab 13 a)
Cape Fear Community College
Telecommunicator Courses
(Roll Call Vote Required)

Tab 13 b)
General Committee Report

Tab 14
Funding Committee Report
David Bone

Tab 14 a)
Estimated 3-Year Forecast –
Service Charge
(Roll Call Vote Required)
Marsha Tapler

NC 911 Board - 3-Year Estimated Forecast Projections - Service Charge Rate

FY2023 \$0.65 Estimated Service Charge Collection	<u>\$99,414,357</u>	FY2024 \$0.55 Estimated Service Charge Collection	<u>\$88,708,195</u>	FY2025 \$0.55 Estimated Service Charge Collection	<u>\$90,482,361</u>	FY2026 \$0.55 Estimated Service Charge Collection	<u>\$92,292,010</u>
Allocation of Service Charge from Total Collected		Allocation of Service Charge from Total Collected		Allocation of Service Charge from Total Collected		Allocation of Service Charge from Total Collected	
Next Generation 911 Reserve Fund 30%	\$29,824,307	Next Generation 911 Reserve Fund 30%	\$26,612,459	Next Generation 911 Reserve Fund 35%	\$31,668,826	Next Generation 911 Reserve Fund 35%	\$32,302,204
PSAP Grant and Statewide Project Account 10%	\$9,941,436	PSAP Grant and Statewide Project Account 15%	\$13,306,229	PSAP Grant and Statewide Project Account 10%	\$9,048,236	PSAP Grant and Statewide Project Account 10%	\$9,229,201
Administrative Account 1.5%	\$1,491,215	Administrative Account 1.5%	\$1,330,623	Administrative Account 2%	\$1,809,647	Administrative Account 2%	\$1,845,840
Total Service Charge remaining to allocated:	<u>\$58,157,399</u>	Total Service Charge remaining to allocated:	<u>\$47,458,884</u>	Total Service Charge remaining to allocated:	<u>\$47,955,651</u>	Total Service Charge remaining to allocated:	<u>\$48,914,765</u>
CMRS Account 0%	\$0	CMRS Account 2%	\$949,178	CMRS Account 4%	\$1,918,226	CMRS Account 4%	\$1,956,591
PSAP Account (prepaid, VoIP, Wireline)	\$58,157,399	PSAP Account (prepaid, VoIP, Wireline)	\$46,509,707	PSAP Account (prepaid, VoIP, Wireline)	\$46,037,425	PSAP Account (prepaid, VoIP, Wireline)	\$46,958,175
<u>BREAKDOWN Per Account and Fund of Revenues/Expenditures</u>		<u>BREAKDOWN Per Account and Fund of Revenues/Expenditures</u>		<u>BREAKDOWN Per Account and Fund of Revenues/Expenditures</u>		<u>BREAKDOWN Per Account and Fund of Revenues/Expenditures</u>	
<u>Next Generation 911 Reserve Fund (Estimated)</u>		<u>Next Generation 911 Reserve Fund (Estimated)</u>		<u>Next Generation 911 Reserve Fund (Estimated)</u>		<u>Next Generation 911 Reserve Fund (Estimated)</u>	
Next Generation 911 Reserve Fund Balance June 30, 2022	\$76,213,876	Next Generation 911 Reserve Estimated Fund Balance June 30, 2023	\$75,929,335	Next Generation 911 Reserve Fund Balance June 30, 2024	\$69,944,913	Next Generation 911 Reserve Fund Balance June 30, 2025	\$71,036,618
Transfer-In	\$0	Transfer In	\$0	Transfer In	\$0	Transfer In	\$0
Service Charge Revenue FY2023	\$29,824,307	Service Charge Revenue FY2024	\$26,612,459	Service Charge Revenue FY2025	\$31,668,826	Service Charge Revenue FY2026	\$32,302,204
Expenditures	<u>-\$30,108,848</u>	Expenditures	<u>-\$32,596,881</u>	Expenditures	<u>-\$30,577,121</u>	Expenditures	<u>-\$30,851,801</u>
Ending Fund Balance June 30, 2023	<u>\$75,929,335</u>	Ending Fund Balance June 30, 2024	<u>\$69,944,913</u>	Ending Fund Balance June 30, 2025	<u>\$71,036,618</u>	Ending Fund Balance June 30, 2026	<u>\$72,487,021</u>
<u>PSAP Grant and Statewide Projects Account (Estimated)</u>		<u>PSAP Grant and Statewide Projects Account (Estimated)</u>		<u>PSAP Grant and Statewide Projects Account (Estimated)</u>		<u>PSAP Grant and Statewide Projects Account (Estimated)</u>	
PSAP Grant and Statewide Projects Account Balance June 30, 2022	\$43,555,385	PSAP Grant and Statewide Projects Account Balance June 30, 2023	\$34,153,349	PSAP Grant and Statewide Projects Account Balance June 30, 2024	\$39,573,068	PSAP Grant and Statewide Projects Account Balance June 30, 2025	\$35,529,369
Transfer in (September 2022)	\$21,776,154	Transfer in (previous FY)	\$21,079,390	Transfer in (previous FY)	\$12,028,065	Transfer in (previous FY)	\$9,247,098
Transfer out	\$0	Transfer out	\$0	Transfer out	\$0	Transfer out	\$0
Service Charge Revenue FY2023	\$9,941,436	Service Charge Revenue FY2024	\$13,306,229	Service Charge Revenue FY2025	\$9,048,236	Service Charge Revenue FY2026	\$9,229,201
Estimated Commitment EOY	<u>-\$41,119,625</u>	Estimated Grant New Awards	<u>-\$28,965,900</u>	Estimated Grant New Awards	<u>-\$25,120,000</u>	Estimated Grant New Awards	<u>-\$25,195,480</u>
Ending Account Balance June 30, 2023	<u>\$34,153,349</u>	Ending Fund Balance June 30, 2024	<u>\$39,573,068</u>	Ending Fund Balance June 30, 2025	<u>\$35,529,369</u>	Ending Fund Balance June 30, 2026	<u>\$28,810,188</u>
<u>PSAP Account (Estimated)</u>		<u>PSAP Account (Estimated)</u>		<u>PSAP Account (Estimated)</u>		<u>PSAP Account (Estimated)</u>	
PSAP Account Balance June 30, 2022	\$21,776,154	PSAP Account Balance June 30, 2023	\$21,079,390	PSAP Account Balance June 30, 2024	\$12,028,065	PSAP Account Balance June 30, 2025	\$9,247,098
Transfer out (September 2022)	-\$21,776,154	Transfer out (September 2023)	-\$21,079,390	Transfer out (September 2024)	-\$12,028,065	Transfer out (September 2025)	-\$9,247,098
Service Charge Revenue FY2023	\$58,157,399	Service Charge Revenue FY2024	\$46,509,707	Service Charge Revenue FY2025	\$46,037,425	Service Charge Revenue FY2026	\$46,958,175
Expenditures	<u>-\$37,078,009</u>	Expenditures	<u>-\$34,481,642</u>	Expenditures	<u>-\$36,790,327</u>	Expenditures	<u>-\$35,952,586</u>
Ending Fund Balance June 30, 2023	<u>\$21,079,390</u>	Ending Fund Balance June 30, 2024	<u>\$12,028,065</u>	Ending Fund Balance June 30, 2025	<u>\$9,247,098</u>	Ending Fund Balance June 30, 2026	<u>\$11,005,589</u>
<u>CMRS Account (Estimated)</u>		<u>CMRS Account (Estimated)</u>		<u>CMRS Account (Estimated)</u>		<u>CMRS Account (Estimated)</u>	
CMRS Account Balance Ending June 30, 2022	\$2,510,610	CMRS Account Balance June 30, 2023	\$1,133,114	CMRS Account Balance June 30, 2024	\$309,878	CMRS Account Balance June 30, 2025	\$367,069
Service Charge Revenue FY2023	\$0	Service Charge Revenue FY2024	\$949,178	Service Charge Revenue FY2025	\$1,918,226	Service Charge Revenue FY2026	\$1,956,591
Expenditures	<u>-\$1,377,496</u>	Expenditures	<u>-\$1,772,414</u>	Expenditures	<u>-\$1,861,035</u>	Expenditures	<u>-\$1,954,086</u>
Ending Fund Balance June 30, 2023	<u>\$1,133,114</u>	Ending Fund Balance June 30, 2024	<u>\$309,878</u>	Ending Fund Balance June 30, 2025	<u>\$367,069</u>	Ending Fund Balance June 30, 2026	<u>\$369,573</u>
<u>Administrative Account (Estimated)</u>		<u>Administrative Account (Estimated)</u>		<u>Administrative Account (Estimated)</u>		<u>Administrative Account (Estimated)</u>	
Admin Account Balance June 30, 2022	\$1,876,163	Admin Account Balance June 30, 2023	\$1,862,894	Admin Account Balance June 30, 2024	\$1,209,225	Admin Account Balance June 30, 2025	\$1,080,476
Service Charge Revenue FY2023	\$1,491,215	Service Charge Revenue FY2024	\$1,330,623	Service Charge Revenue FY2025	\$1,809,647	Service Charge Revenue FY2026	\$1,845,840
Expenditures	<u>-\$1,504,485</u>	Expenditures	<u>-\$1,984,292</u>	Expenditures	<u>-\$1,938,396</u>	Expenditures	<u>-\$1,954,998</u>
Ending Fund Balance June 30, 2023	<u>\$1,862,894</u>	Ending Fund Balance June 30, 2024	<u>\$1,209,225</u>	Ending Fund Balance June 30, 2025	<u>\$1,080,476</u>	Ending Fund Balance June 30, 2026	<u>\$971,318</u>
Total Fund Balance FY2023	<u>\$134,158,082</u>	Total Fund Balance FY2024	<u>\$123,065,148</u>	Total Fund Balance FY2025	<u>\$117,260,630</u>	Total Fund Balance FY2026	<u>\$113,643,689</u>

**Accrual basis
**Final budgetary amounts presented to the Funding Committee and Board April 2023.
**Interest not included

Tab 14 b)
General Committee Report

Tab 15
Finance Team Report
**Marsha Tapler/Kristen Falco/
Sarah Templeton**

Tab 16
Grant Committee Report
David Bone/Pokey Harris

Tab 16 a)

**PSAP Grant Program Progress
Reports**

- **Franklin County 911**
- **Cumberland County 911**
- **Clay County 911**
- **Sampson County 911**
- **Union 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: Franklin County Emergency Communications
2. Form Completed By: Christy Shearin, PSAP Director
3. Completion Date: 02/09/2023
4. Grant Name: Franklin County Emergency Communications – New PSAP
5. Total Cost of Project: \$6,635,101.00
6. Total Grant Award for Project: \$3,959,873.00
7. Project Accomplishments and Milestones to Date: Construction of the facility is at 65% completion with substantial completion expected in June of 2023. The facility is dried in and work continues on the interior. Much of the curb and gutter has been laid. The emergency generator has been installed by the contractor. The dispatch furniture has been procured and will be installed in March. The office furniture and appliances have also been procured and are awaiting installation. Recurring meetings with AT&T and other technology partners has begun, final efforts to procure technology equipment is underway. Work has started on the migration strategy to the new facility once construction is completed.
8. Project Challenges and/or Risks to Date: COVID-19 related supply chain issues, escalating costs of construction materials and technology items is still prevalent. Changes to lead times, chasing supply and equipment deliveries is routine. As an example, computer room air conditioning (CRAC) units may not arrive until June of 2023. Our AT&T installation will be on a new Viper host, so we are carefully coordinating with this vendor.
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: Cumberland County Emergency Services
2. Form Completed By: Gene Booth
3. Completion Date: 2-10-2023
4. Grant Name: G2020-06
5. Total Cost of Project: \$16,536,746.00
6. Total Grant Award for Project: \$2,251,387.00
7. Project Accomplishments and Milestones to Date: As of this report the project is 97% complete. Cumberland County's New 911 center cut over on December 14, 2022. There are remaining punch list items that need to be completed. The punch items include a few items, like completion of the Mechanical yard cover to protect the building infrastructure in addition to, window replacement as many showed cracking shortly after installation. There are AV items that are not expected to be delivered until second or third quarter of 2023. There are continued challenges as to the balancing of the building chiller that was existing and the new computer room AC units.
8. Project Challenges and/or Risks to Date: There are no longer risks to the building.
9. Is Your Project Meeting the Submitted Timeline? Yes No
10. If the answer is no, provide a brief explanation and updated timeline.

Although we are in and using the building daily, the major punch list items are preventing close out of the project for the County.
11. Have monthly reports been submitted in a timely manner? Yes No



12. If the answer is no, please provide a brief description why. Some delay in receiving the appropriate reporting information from vendors.

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: Clay County 911 Communications, Hayesville, NC
2. Form Completed By: Kevin Sellers, 911 Director
3. Completion Date: February 6, 2023
4. Grant Name: Clay County New 911 Facility
5. Total Cost of Project: \$6,282,130.00 up from \$4,864,682.00 in March 2022
6. Total Grant Award for Project: \$2,500,000.00
7. Project Accomplishments and Milestones to Date: Construction Bids have been received and being reviewed for award.
8. Project Challenges and/or Risks to Date: Inflation in construction and material costs and the availability of construction materials and labor to construct the new 911 facility.
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:Sampson County 911-Communications Center
2. Form Completed By:Cliff Brown
3. Completion Date:02/13/2023
4. Grant Name:Regional 911 System
5. Total Cost of Project:\$6,293,724.00
6. Total Grant Award for Project:\$5,479,453.00
7. Project Accomplishments and Milestones to Date: *This project involves the design, construction and systemization of a new 911 facility. To date the design is complete and construction is nearing completion. The contractor has been able to do a great job with the supply chain issues, however as most projects, ours has suffered from the difficulty in obtaining certain critical pieces. The contractor is still in the process of finalizing the UPS and generator, which should complete the facility and allow us to begin the implementation of our public safety technology systems*
8. Project Challenges and/or Risks to Date:*COVID-19, supply chain and price increase issues have certainly impacted this project. While the contractor and County team worked hard to mitigate the problem, long delivery times has extended the schedule.*
9. Is Your Project Meeting the Submitted Timeline? Yes No
10. If the answer is no, provide a brief explanation and updated timeline. *Supply chain has impacted the project, causing several delays. We have submitted a request to extend the grant for 9 months to make sure we can complete the construction, as well as, install and test the technology systems.*



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.](#)

February 24, 2023

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: **Union County 911 Communications**
2. Form Completed By: **Vicki Callicutt, Communication Director**
3. Report Completion Date: **2/10/2023**
4. Grant Name: **Communications 911 Technology**
5. Total Cost of Project: **\$2,989,032**
6. Total Grant Award for Project: **\$484,021**
7. Project Accomplishments and Milestones to Date: **Generator: Installation completed, reimbursement request submitted and payment received; Radio Tower: Bid documents under review/edit by county finance/procurement in preparation for issuance; Microwave Equipment: Equipment received/staged for installation, reimbursement request submitted and payment received; Structured Cabling: Installation completed, reimbursement request submitted and payment received; Radio Distribution Surge Protection: Installation completed, reimbursement request submitted and payment received; Racks for Equipment: Installation completed, reimbursement request submitted and payment received. Migration of the county's primary 911 center to the new facility located at 2258 Concord Ave., Monroe, occurred on November 1, 2022. Concurrently, the county's backup facility, formerly located at the Cabarrus County PSAP, transitioned to county's former primary PSAP location in the Union County Government Center at 500 N Main St., Monroe.**
8. Project Challenges and/or Risks to Date: **The major significant risk to grant completion to date has been the receipt and installation of the communications tower due to procurement & bidding issues. Currently the county's finance/procurement department has finalized documents for bidding in accordance with the county's procurement process. Bid issuance**

occurred on February 14, with a pre-bid conference held on February 22nd, with bid opening now scheduled for March 14. Following the bid award projected in late March/April, the selected vendor is estimated to complete design work in May, followed by construction estimated in June – October, with project review and acceptance in November. This should allow the project to be completed prior to the mandatory grant end date of December 31, 2023.

9. Is Your Project Meeting the Submitted Timeline? Yes No
10. If the answer is no, provide a brief explanation and updated timeline. **n/a**
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**

Tab 16 b)
**FY2023B PSAP Grant
Recommendations**
(Roll Call Vote Required)

Tab 16 c)
FY2024 PSAP Grant Cycle

Tab 16 d)
General Committee Report

Tab 17

Standards Committee Report

Donna Wright/Tina Gardner

Tab 17 a)

PSAP Assessment Project

Update

Stephanie Conner

Tab 17 b)

General Committee Report

Tab 18

Technology Committee Report

Bo Ferguson/Tom Rogers/Greg

Dotson

Tab 18 a)

NG911 Project Overview/Status

Tom Rogers

Tab 18 b)

NMAC General Report

Greg Dotson

Tab 18 c)

**AT&T/Intrado Executive
Leadership Report**

Jean-Claude Rizk/Robert Sergi

Tab 18 d)

General Committee Report

Tab 19

911 Regional Coordinator Reports

**Gardner/Turbeville/Newberry/
Conner**

Tab 20
Other General Board Business
Pokey Harris

Adjourn

*Next NC 911 Board Meeting – Friday, March 24, 2023, 10:00 AM – 12:00 PM
Via Simultaneous Communication*

