TENTATIVE AGENDA & MEETING NOTICE BOARD OF COUNTY COMMISSIONERS

TUESDAY, APRIL 1, 2025 5:30 P.M.

WATAUGA COUNTY ADMINISTRATION BUILDING COMMISSIONERS' BOARD ROOM

TIME	#	TOPIC	PRESENTER	PAGE
5:30	1 2	CALL REGULAR MEETING TO ORDER APPROVAL OF MINUTES: March 18, 2025, Regular Meeting March 18, 2025, Closed Session		1
	3	APPROVAL OF THE APRIL 1, 2025, AGENDA		9
5:35	4	PUBLIC COMMENT - Will last up to 1-hour dependent on number of speakers	CHAIRMAN EGGERS	11
5:40	5	LIBRARY MATTERS A. Proposed Proclamation for National Library Week B. Library Renovation Report C. Proposed Capital Project Ordinance for Library Renovation Project	Ms. Monica Caruso Mr. John Arnaud Mr. Deron Geouque	13 15 21
5:45	6	PROPOSED CHANGE ORDER FOR COMPLEX FENCING REPAIRS	MR. ROBERT MARSH	23
5:50	7	PROPOSED RESOLUTION IN SUPPORT OF NORTH CAROLINA SENATE BILL 248	Ms. Amy Shook	27
5:55	8	EMERGENCY SERVICES MATTERS A. Request for Public Safety Radio System Civil, Tower, & Construction Work B. Hurricane Helene Update	MR. WILL HOLT	29 59
6:00	9	TAX MANAGEMENT ASSOCIATES, INC., BUSINESS PERSONAL PROPERTY AUDIT SERVICES CONTRACT	Mr. Tyler Rash	63
6:05	10	MISCELLANEOUS ADMINISTRATIVE MATTERS A. Proposed Valle Crucis School Change Order #5 B. Resolution to Partner with The Town of Boone Establishing a Bridge to Link County and Town Properties Located at Brookshire Park and Ted Mackorell Soccer Complex	Mr. Deron Geouque	71 77
		C. Resolution to Approve North Carolina Cashflow Loan Agreement and Promissory Note		79
		D. Proposed Amendment to SDR Contract		91
		E. Public Hearing Request to Allow Citizen Comment on the Potential Repealing of the Fire Appendices		93
		F. April Meeting Schedule		139
		G. Announcements		141

TIME	#	TOPIC	PRESENTER	PAGE
6:10	11	Break		141
6:15	12	CLOSED SESSION Attorney/Client Matters per, G. S. 143-318.11(a)(3) Land Acquisition per, G. S. 143-318.11(a)(5)(i)		146
6:45	13	Adjourn		

AGENDA ITEM 2:

APPROVAL OF MINUTES:

March 18, 2025, Regular Meeting March 18, 2025, Closed Session



MINUTES

WATAUGA COUNTY BOARD OF COMMISSIONERS TUESDAY, MARCH 18, 2025

The Watauga County Board of Commissioners held a regular meeting, as scheduled, on Tuesday, March 18, 2025, at 5:30 P.M. in the Commissioners' Board Room located in the Watauga County Administration Building, Boone, North Carolina.

Chairman Eggers called the meeting to order at 5:30 P.M. The following were present:

PRESENT: Braxton Eggers, Chairman

Todd Castle, Vice-Chairman Emily Greene, Commissioner Tim Hodges, Commissioner Ronnie Marsh, Commissioner Nathan Miller, County Attorney Deron Geouque, County Manager Anita J. Fogle, Clerk to the Board

Vice-Chairman Castle opened with a prayer and Commissioner Marsh led the Pledge of Allegiance.

APPROVAL OF MINUTES

Chairman Eggers presented the February 27 & 28, 2025, special meeting minutes as well as the March 4, 2025, regular meeting and closed session minutes.

Commissioner Greene, seconded by Commissioner Hodges, moved to approve the February 27 & 28, 2025, special meeting minutes as presented.

VOTE: Aye-5 Nay-0

Commissioner Greene, seconded by Commissioner Hodges, moved to approve the March 4, 2025, regular meeting minutes as presented.

VOTE: Aye-5 Nay-0

Commissioner Greene, seconded by Commissioner Hodges, moved to approve the March 4, 2025, closed session minutes as presented.

VOTE: Aye-5 Nay-0

APPROVAL OF AGENDA

Chairman Eggers called for additions and/or corrections to the March 18, 2025, agenda.

Chairman Eggers requested to add a review of County ordinances to Miscellaneous Administrative Matters.

County Attorney Miller stated that the Opioid lawsuit would be discussed under Attorney/Client Matters in closed session. Mr. Miller also requested to add Land Acquisition to the closed session per, G. S. 143-318.11(a)(5)(i).

Vice-Chairman Castle, seconded by Commissioner Hodges, moved to approve the March 18, 2025, agenda as amended.

VOTE: Aye-5 Nay-0

PUBLIC COMMENT

The following spoke during public comment:

Ms. Breanna Meehan shares how a distant neighbor had issues with her dog.

Ms. Kathy Parham gave an update on the Children's Playhouse and thanked the Board for support over the years.

Mr. Riley Oates, Public Affairs Specialist, with the Small Business Administration (SBA) Office of Disaster Recovery & Resilience, shared opportunities for business owners, homeowners, renters, and non-profits to receive help due to storm damage from Hurricane Helene.

Vice-Chairman Castle, seconded by Commissioner Marsh, moved to close public comment.

VOTE: Aye-5 Nay-0

PROPOSED RESOLUTION EXPRESSING THE APPRECIATION OF THE WATAUGA COUNTY BOARD OF COMMISSIONERS FOR THE ASSISTANCE RENDERED TO WATAUGA COUNTY ON SEPTEMBER 27, 2024, AND THE WEEKS FOLLOWING

Chairman Eggers presented and read a resolution expressing the Board's appreciation for all of the assistance received during, after, and currently from Hurricane Helene.

Commissioner Marsh, seconded by Commissioner Greene, moved to adopt the resolution as presented.

VOTE: Aye-5 Nay-0

LETTER OF SUPPORT FOR FIRE ASSOCIATION

Mr. Seth Norris, Chair of the Watauga County Fire Commission, presented a joint letter from the Watauga County Fire Commission and the Watauga County Firefighters Association, to Senator Hise and Representative Pickett requesting support by fully funding the North Carolina Forest Service's budget request. The full list of NC Forest Service Needs was presented. The support would assist in the mitigation of wildfire risks for our County and the western counties of the state.

Mr. Andrew Harsey, Watauga County Ranger with the North Carolina Forest Service, was also present. Commissioner Castle asked if there was a way for companies to log the timber left from Hurricane Helene as it was after Hurricane Hugo. Mr. Harsey stated that there was a Federal program for that; however, there was a shortage of contractors as the timber was not that valuable. He did state that there were a few contractors doing that in Watauga County. Mr. Harsey also stated that Watauga County had roughly 30% of timber down due to Hurricane Helene and recent wind storms.

Chairman Eggers shared a draft letter addressed to Senator Hise, Representative Hall, and Representative Pickett, which also requested support by fully funding the North Carolina Forest Service's budget request.

Commissioner Marsh, seconded by Commissioner Hodges, moved to adopt the letter of support as presented.

VOTE: Aye-5 Nay-0

WATAUGA HERITAGE MUSEUM REPORT

Ms. Diane Deal, Chairman of the Watauga Heritage Museum, presented an update on the progress of the future Watauga Heritage Museum. Ms. Deal gave a recap to update new Board members and stated that they are working toward their set goals. Mr. Aaron Burleson was developing a website for the Museum (www.wataugacountyheritagemuseum.org) which was currently under construction. A social media page would be developed as well. A total of \$23,161 in donations have been collected. The Museum Site Committee was searching for a place to house the museum. Ms. Deal stated that the Museum Board wanted to be on the radar for future financial support from the County and they were also applying for grants. The report was given for information only and, therefore, no action was required.

MIDDLE FORK GREENWAY EASEMENT REQUEST

Ms. Wendy Patoprsty, Middle Fork Greenway, requested the termination of an easement between Appalachian Regional and Watauga County which was filed in 2016 with the Register of Deeds Office. The plan was for the County to terminate the easement and the Town of Blowing Rock would secure a similar easement from Appalachian Regional and construction would begin for that portion of the Middle Fork Greenway. The easement was for land at the Foley Center which has since been annexed into the Town of Blowing Rock.

County Attorney Miller stated that the easement could not be swapped to a Town but could be swapped to a trust or non-profit. To ensure the easement goes to the Town of Blowing Rock, Mr. Miller proposed the Board terminate the current easement with Appalachian Regional Healthcare System, (ARHS) Inc., and donate the land back to ARHS so long as ARHS has donated the easement to the Town of Blowing Rock.

Vice-Chairman Castle, seconded by Commissioner Marsh, moved to terminate the current easement with Appalachian Regional Healthcare System, (ARHS) Inc., and donate the land back to ARHS contingent on ARHS donating the easement to the Town of Blowing Rock.

VOTE: Aye-5 Nay-0

BID AWARD REQUEST FOR GUY FORD ROAD RIVER ACCESS STORM DAMAGE REPAIRS

Mr. Robert Marsh, Maintenance Director, requested approval to award the bid for repairs at the Guy Ford Road River Access to Estate Maintenance Company in the amount of \$54,625. Mr. Marsh stated that staff advertised the repair project in a Request for Bids, which was published on the County website. It was reposted after enough bids were not received. The following three bids, all from Boone, NC, companies were then received on March 11, 2025:

BIDDER	AMOUNT
Estate Maintenance Company	\$54,625
Darren Moretz Backhoe Service	\$61,595
Greene Construction, Inc.	\$69,845

Commissioner Hodges, seconded by Commissioner Greene, moved to accept the bid from Estate Maintenance Company in the amount of \$54,625 for repairs at the Guy Ford Road River Access.

VOTE: Aye-5 Nay-0

HUMAN SERVICES ACCESS CONTROL SYSTEM REQUEST

Mr. Drew Eggers, IT Director, requested approval of a quote from Freedom ElecTech in the amount of \$27,709 for upgrading the access control (security system for doors) at the Human Services Building. Freedom ElecTech provides access control to other County facilities.

Commissioner Marsh, seconded by Vice-Chairman Castle, moved to approve the quote from Freedom ElecTech in the amount of \$27,709 for upgrading the access control (security system for doors) at the Human Services Building.

VOTE: Aye-5 Nay-0

TAX MATTERS

A. Monthly Collections Report

County Manager Geouque, on behalf of Mr. Tyler Rash, Tax Administrator, presented the Tax Collections Report for the month of February 2025. The report was presented for information only and, therefore, no action was required.

B. Refunds and Releases

County Manager Geouque, on behalf of Mr. Tyler Rash, Tax Administrator, presented the Refunds and Releases Report for February 2025 for Board approval:

TO BE TYPED IN MINUTE BOOK

County Attorney Miller stated that American Towers, Inc., on the releases list was a carrier for Verizon and AT&T and there were questions about whether it was a utility. County Manager Geouque stated that they could be removed and added to a future refund and releases list, if appropriate.

Commissioner Marsh, seconded by Commissioner Hodges, moved to approve the Refunds and Releases Report for February 2025 excluding all American Towers, Inc. listings.

VOTE: Aye-5 Nay-0

MISCELLANEOUS ADMINISTRATIVE MATTERS

A. Boards and Commissions

County Manager presented the following:

Workforce Development Board

Ms. Misty Bishop-Price, Director of High Country Council of Governments Workforce Development Board, has requested the reappointment of Ms. Tara Brossa for a two-year term ending on June 30, 2027. This was the second reading.

Commissioner Hodges, seconded by Commissioner Marsh, moved to reappoint Ms. Tara Brossa for a two-year term, ending on June 30, 2027, to the High Country Council of Governments Workforce Development Board.

VOTE: Aye-5 Nay-0

Social Services Advisory Board

The Social Services Advisory Board has recommended the appointment of Ms. Tiffany Williams who will fill the seat held by Ms. Mary Smalling. The term is for four years. This was the second reading.

Commissioner Greene, seconded by Commissioner Marsh, moved to appoint Ms. Tiffany Williams to the Social Services Advisory Board for a four-year term.

VOTE: Aye-5 Nay-0

B. County Ordinance Review

Chairman Eggers and Vice-Chairman Castle suggested directing the Planning Board to review all County Ordinances to ensure continuity and equitability for residential housing.

Vice-Chairman Castle, seconded by Chairman Eggers, moved to direct the Planning Board to review all County Ordinances to ensure continuity and equitability for residential housing.

VOTE: Aye-5 Nay-0

C. Announcements

County Manager Geouque announced the following:

- The UNC School of Government will present an Ethics for Elected Officials course via Zoom on Thursday, May 22, 2025, from 10:00 A.M. to 12:00 P.M. The course will be live and will be broadcast in the Commissioners' Board Room. The course is required to be taken by all Commissioners by December 2025. A group registration will be done for those who plan to attend in the Board Room and separate registrations will be done for those who will need to view it from a different location. Please let Anita know if you can attend.
- The North Carolina Association of County Commissioners will hold a District 14 Meeting on April 24, 2025, from 5:30 P.M. to 7:30 P.M. at the Avery Community Center. Commissioners are invited to attend. The deadline to RSVP is April 1, 2025. Please let Anita know if you plan to attend and she will assist with registration.
- At the April 1, 2025, meeting consideration will be given to cancel the second meeting in April.

Chairman Eggers asked if there were Commissioner Comments.

Vice-Chairman Castle stated that a meeting was held at the old Valle Crucis School earlier in the day with Senator Ted Budd who toured the Hurricane Helene damaged school. Mr. Castle encouraged other elected officials to see Hurricane damage in person. Commissioner Greene

asked how many schools in the state were a complete loss and the answer was that Valle Crucis was the only one. Commissioner Marsh thanked past Commissioners for the foresight to construct a new Valle Crucis School.

Chairman Eggers stated that Senate Bill 220, "A Bill to be Entitled An Act to Revise the Laws Pertaining to Trespass Upon Property to Hunt, Fish, or Trap, as Recommended by the Wildlife Resources Commission" has been filed. Mr. Eggers stated that Section 4 "Any person who willfully launches any motorized or unmotorized watercraft from the right-of-way of a public highway or street into a body of water adjacent to the right-of-way, except in public areas designated for boating access, is guilty of a Class 3 misdemeanor." would not be good in Watauga County. Chairman Eggers encouraged conversations and calls that would help have Watauga County removed from the Bill.

CLOSED SESSION

At 6:27 P.M., Commissioner Marsh, seconded by Commissioner Greene, moved to enter Closed Session to discuss Attorney/Client Matters, per G. S. 143-318.11(a)(3), Land Acquisition, per G. S. 143-318.11(a)(5)(i), and Personnel Matters, per G. S. 143-318.11(a)(6).

VOTE: Aye-5 Nay-0

Vice-Chairman Castle, seconded by Commissioner Hodges, moved to resume the open meeting at 8:50 P.M.

VOTE: Aye-5 Nay-0

ADJOURN

Vice-Chairman Castle, seconded by Chairman Eggers, moved to adjourn the meeting at 8:50 P.M.

VOTE: Aye-5 Nay-0

Braxton Eggers, Chairman

ATTEST: Anita J. Fogle, Clerk to the Board

AGENDA ITEM 3:

APPROVAL OF THE APRIL 1, 2025, AGENDA

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AGENDA ITEM 4:

PUBLIC COMMENT

MANAGER'S COMMENTS:

Public Comment will last up to 1-hour dependent upon the number of speakers.

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AGENDA ITEM 5:

LIBRARY MATTERS

A. Proposed Proclamation for National Library Week

MANAGER'S COMMENTS:

Monica Caruso, Watauga County Library, will present a Proclamation for National Library Week.

Board action is required to adopt the proclamation as presented.

STATE OF NORTH CAROLINA

COUNTY OF WATAUGA

National Library Week 2025 Proclamation

WHEREAS, libraries spark creativity, fuel imagination, and inspire lifelong learning, offering a space where individuals of all ages can explore new ideas and be drawn to new possibilities; and

WHEREAS, libraries serve as vibrant community hubs, connecting people with knowledge, technology, and resources while fostering civic engagement, critical thinking, and lifelong learning; and

WHEREAS, libraries provide free and equitable access to books, digital tools, and innovative programming, ensuring that all individuals—regardless of background—have the support they need to learn, connect, and thrive; and

WHEREAS, libraries partner with schools, businesses, and organizations, connecting the dots to maximize resources, increase efficiency, and expand access to essential services, strengthening the entire community; and

WHEREAS, libraries empower job seekers, entrepreneurs, and lifelong learners by providing access to resources, training, and opportunities that support career growth and economic success; and

WHEREAS, libraries nurture young minds through story times, STEAM programs, and literacy initiatives, fostering curiosity and a love of learning that lasts a lifetime; and

WHEREAS, libraries protect the right to read, think, and explore without censorship, standing as champions of intellectual freedom and free expression; and

WHEREAS, dedicated librarians and library workers provide welcoming spaces that inspire discovery, collaboration, and creativity for all; and

WHEREAS, libraries, librarians, and library workers across the country are joining together to celebrate National Library Week under the theme "Drawn to the Library."

NOW, THEREFORE, be it proclaimed that the Watauga County Board of Commissioners, proclaim April 6-12, 2025, as "National Library Week" and during this week, the Board encourages all residents to visit their library, explore its resources, and celebrate all the ways that the library draws us together as a community.

ADOPTED this the 1st day of April, 2025.

Braxton Eggers, Chairman **Board of Commissioners**

ATTEST:

Anita J. Fogle

Clerk to the Board



AGENDA ITEM 5:

LIBRARY MATTERS

B. Library Renovation Report

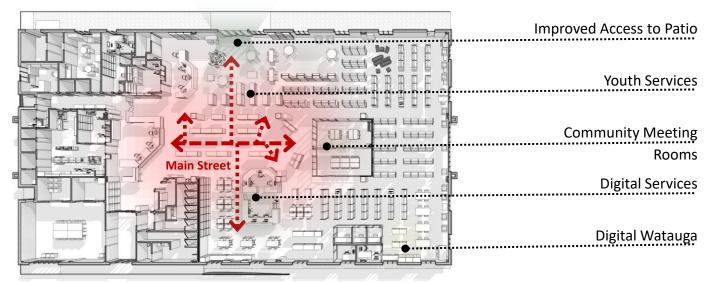
MANAGER'S COMMENTS:

Mr. John Arnaud, Architect, will present the plan for the renovation to the Watauga County Library. At this time, staff is unsure if there will be any formal request to the Board for action.

Meeting Rooms at Main Street

As our community has grown the needs of the library have evolved. The library increasingly serves as a community resource center offering places to meet, access to technology, a safe space for children to learn, and a repository for traditional media. Overcrowding and dated layout present challenges to patrons and staff. Regrettably, the staff has to deny requests from 10-15 groups per month for use of the current single meeting room. Sight lines from departments and service desks are limited and wayfinding for new patrons is difficult.

Rethinking the existing layout and anchoring a library 'Main Street' between the circulation desk and new conference rooms will offer the community additional places to meet, easy wayfinding between the library's resources, and improve ability of staff to interact and monitor activities throughout the facility.







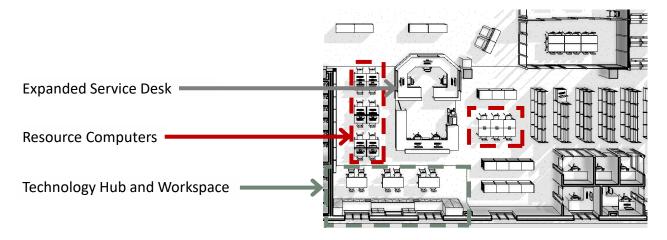




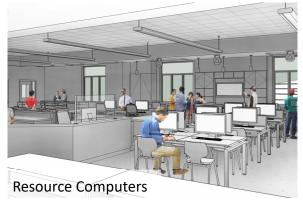
Adult Services and Digital Resource Offerings

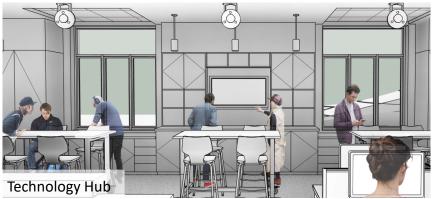
Our Adult Services staff manages resources that range from access to technology, to Spanish language materials, genealogy, local history and beyond. As the needs of the community have shifted to the digital, the nearly 30-year-old facility has fallen behind. Resource computers are frequently occupied and unavailable; limited power leaves patrons unplugging library equipment. A service desk built to serve a community a fraction the size of ours is frequently overwhelmed.

Increasing the footprint of the department, quantity of computer stations, reach of the service desk, and infrastructure for innovative technologies will allow our 'Digital' Adult Services to collaborate with schools, businesses, entrepreneurs and the community as a hub of technology and digital literacy.







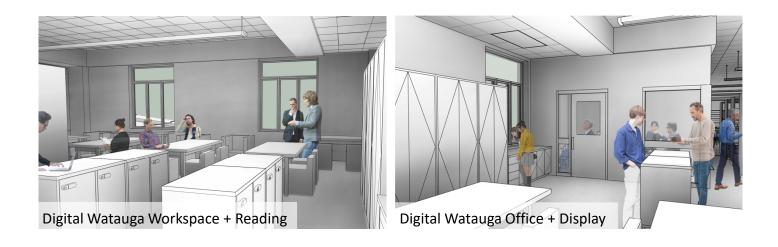


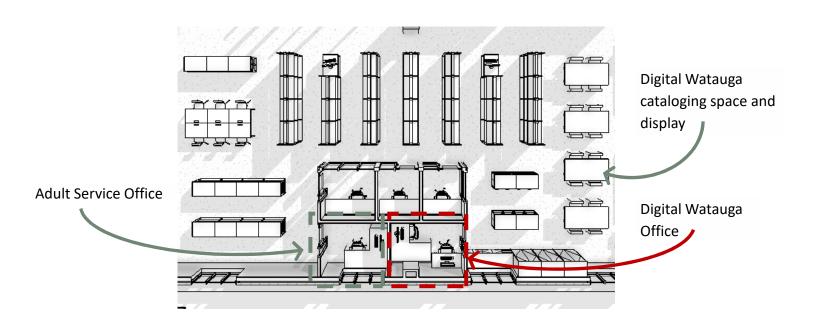


Digital Watauga and Local History

Watauga County's Appalachian community has a history we are proud to preserve and share. Our library is home to Digital Watauga, a collaboration between the non-profit Watauga Historical Society and the library. Currently, the Adult Services team shares an office with Digital Watauga, supervises their materials, and shares patron facing space and equipment with the cataloging team.

Reconfiguring the existing shared office and study rooms will give both Adult Services and Digital Watauga private spaces to work and sightline to their unique departments. Locating local history media near Digital Watauga will allow volunteers and proud Appalachians a place to quietly learn about and celebrate their heritage.



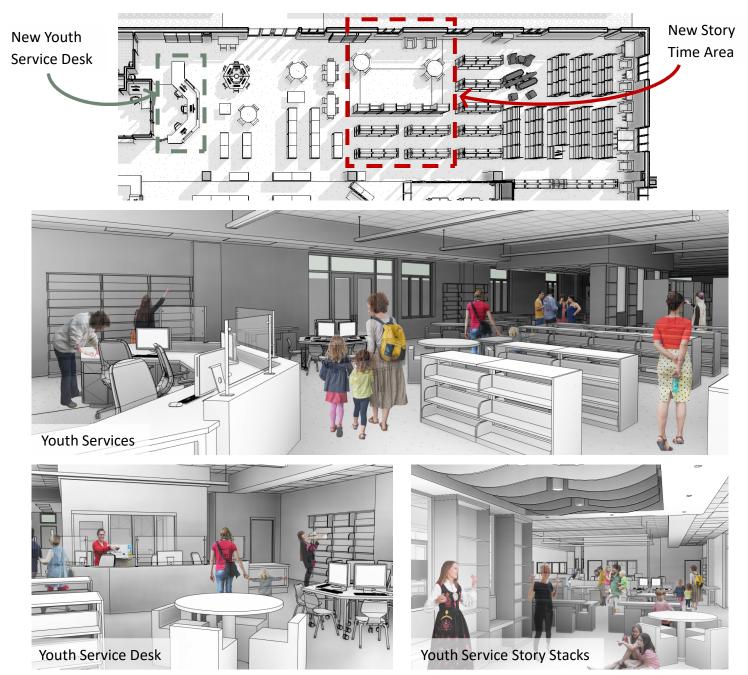




Youth Services and Story Stacks

Our youth services and programs are viewed by many in the county as our most essential. The library is where parents bring their children and teens to gather, share stories, and learn through books and technology. As the number of children served has grown with the community the existing configuration of the youth services department has become inadequate.

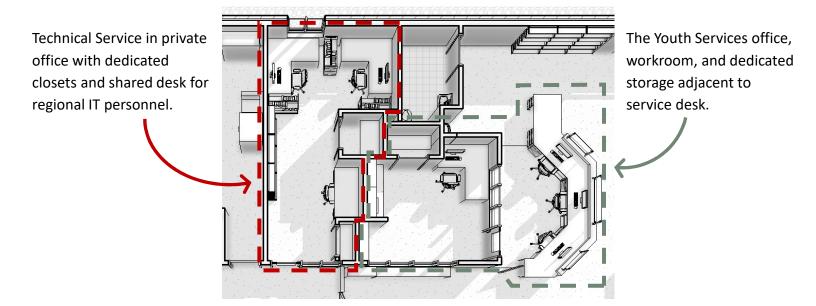
Restructuring our story area to create a flexible and technology friendly place will allow our team to better manage events with participation that varies with the seasons. Relocating youth computers and the service desk will allow staff to better respond to patron needs. Implementation of a sound masking system will help the facility manage, but not lose the joy of youthful excitement. A reimagining of the story area into the new 'Story Stacks' will create a place for story time to serve groups of varying sizes and incorporate technology without interfering with the library's other offerings.

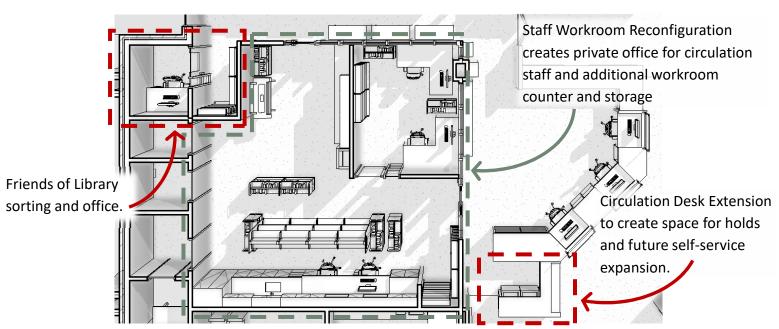


Staff Workroom Improvements

A vibrant, growing community requires constant attention and service. As our services have grown, the need for uninterrupted work spaces has increased. Reconfiguring our staff spaces will allow our staff and volunteers to work more efficiently in dedicated spaces with dedicated storage.

Reconfiguring the east workroom will allow Youth Services to work in a dedicated office. Technical Services will gain a private office with dedicated storage space. An IT closet and desk to share with the regional library's 'floating' IT manager. The main workroom will be updated to create a dedicated Circulation Office that is separated from the bustle of main workroom. The reconfiguration will allow additional cabinet storage and work counter to be added. The local Friends of the Library, that work tirelessly to support operations, will gain a small dedicated space for them to collect and sort donations on an ongoing basis without interfering with staff activities or egress through the back door.







AGENDA ITEM 5:

LIBRARY MATTERS

C. Proposed Capital Project Ordinance for Library Renovation Project

MANAGER'S COMMENTS:

The County Manager will present a project ordinance for the establishment and maintenance of funds for the Library Renovation Project.

Board action is required to approve the project ordinance as presented.

STATE OF NORTH CAROLINA

WATAUGA COUNTY

Watauga County Capital Projects Ordinance Library Renovations

BE IT ORDAINED by the Watauga County Board of Commissioners, pursuant to Section 13.2 of Chapter 159 of the general statutes of North Carolina, the following Capital Projects Ordinance is hereby adopted:

Section 1. The authorized project shall pertain to renovations to the Watauga County Library.

Section 2. The officers of the County are hereby directed to proceed with this project within the guidelines set by the budget contained herein and as amended in the future.

Section 3. The following revenues and appropriations are available to complete this project:

Rural Downtown Economic Development Grant Total revenues	\$125,000 \$125,000
Library Renovations Total appropriations	\$125,000 \$125,000

Section 4. Any balance of appropriated funds which are unexpended at the conclusion of this project shall be reserved by the Board of Commissioners for future capital projects.

Section 5. Copies of this capital projects ordinance shall be furnished to the Clerk to the Governing Board, and to the Budget Officer and the Finance Officer for direction in carrying out this project.

ADOPTED this 1st day of April, 2025.

	Braxton Eggers, Chairman
ATTEST:	Watauga County Board of Commissioners
Anita J. Fogle Clerk to the Board	

AGENDA ITEM 6:

PROPOSED CHANGE ORDER FOR COMPLEX FENCING REPAIRS

MANAGER'S COMMENTS:

Mr. Robert Marsh, Watauga County Maintenance Director, will request the Board approve a change order in the amount of \$14,857 for fence repairs. The change order is to allow for the addition of two (2) gates and about forty feet of fencing that was open and is now to be enclosed.

Board action is required to accept the change order from Mountain Fence and Deck in the amount of \$14,857.



WATAUGA COUNTY MAINTENANCE DEPARTMENT

274 Winklers Creek Road, Suite B, Boone, NC 28607 - Phone (828) 264-1430 Fax (828) 264-1473

TO:

Deron Geouque, County Manager

FROM:

Robert Marsh, Maintenance Director R

DATE:

March 7, 2025

RE:

Change Order Request for Complex Fencing Repairs

BACKGROUND

Watauga County Board of Commissioners awarded the fencing repair project on the storm-damaged ball fields to the low bidder, Mountain Fence and Deck, at the November 19, 2024, Board meeting. Last week, a member of the public made a request to have the outfield fence moved in to meet standard adult softball recommendations. P&R staff reviewed the request and is in favor of the requested changes. Mountain Fence and Deck has requested a Change Order in the amount of \$14,857. If approved, the scope of work will be revised to accommodate the additional work requested by P&R staff and the public including a new fence layout with a smaller outfield, service gates, safety cap and relocation of four foul poles.

RECOMMENDATION

Fencing repairs are scheduled to begin in early April. This is an opportune time to change the layout of the fence lines, and Staff recommends the County approve this Change Order in the amount of \$14,857 for additional fencing repairs at the Complex softball fields.

Complex Fields Fencing Repairs Change Order #1

Under the terms of the Contract and without invalidating the original provisions thereof, the following change in work is authorized for the change in contract amount herein set forth:

• Change of Scope: Fields 2&3; Fully enclose with fencing and add service gates; relocate foul poles; reduce outfield length

\$49,309.00

Contract	Cost	Summa	ry:
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1. Original Contract Amount

 Amount of Previous Change Orders Amount of This Change Order 	ADD	-0- \$14,857.00	
4. Revised Contract Total Amount		\$64,166.00	
Mountain Fence and Deck By:	mpton		Date: 03 / 07 / 2025
Watauga County By:			Date:
Date approved by Watauga County Mana	iger:		
This instrument has been preaudited in the manner and Fiscal Control Act.	anner re	quired by the	Local Government Budget
			Date:

Complex Fields Fencing Repairs Change Order #1

Under the terms of the Contract and without invalidating the original provisions thereof, the following change in work is authorized for the change in contract amount herein set forth:

• Change of Scope: Fields 2&3; Fully enclose with fencing and add service gates; relocate foul poles; reduce outfield length

\$49,309.00

Contract Cost Summary:

 Original Contract Amount Amount of Previous Change Orders Amount of This Change Order 	\$49,309.00 -0- ADD \$14,857.00
4. Revised Contract Total Amount	\$64,166.00
Mountain Fence and Deck By:	upton 03 / 07 / 2025 Date:
Watauga County By: Den 9	Date: 3-18-2025
Date approved by Watauga County Mana	ger: <i>3-18 - 2d 25</i>
and Fiscal Control Act.	nner required by the Local Government Budget Date: 3-/8-2025

AGENDA ITEM 7:

PROPOSED RESOLUTION IN SUPPORT OF NORTH CAROLINA SENATE BILL 248 MANAGER'S COMMENTS:

Ms. Amy Shook, Watauga County Register of Deeds, will request the Board approve the resolution in support of North Carolina Senate Bill 248. The bill would alleviate the burdens placed on adopted individuals by allowing them to obtain their birth records from their local Register of Deeds.

Board action is required to adopt the resolution as presented.

STATE OF NORTH CAROLINA
COUNTY OF WATAUGA



RESOLUTION IN SUPPORT OF NORTH CAROLINA SENATE BILL 248

WHEREAS, the North Carolina Association of Registers of Deeds (NCARD) has diligently advocated for legislation to improve access to vital records for all North Carolina citizens, including those who have been adopted; and

WHEREAS, Senate Bill 248 has been introduced to authorize North Carolina Registers of Deeds offices to issue birth records for adopted individuals, thereby expanding access to these records at the local level; and

WHEREAS, under current law, once adopted, the original birth certificate is returned to the state office, and all indexed information is removed from the county records. The adoptee cannot obtain a copy of their birth record from the county of birth, and they must request their birth certificate from the North Carolina Office of Vital Records (NCOVR) in Raleigh, often facing significant delays and administrative challenges; and

WHEREAS, Register of Deeds offices across the state have implemented the North Carolina Database Application for Vital Events (NCDAVE) system, providing access to statewide birth and death records, except in the case of adopted individuals; and

WHEREAS, the passage of Senate Bill 248 would alleviate burdens on adopted individuals by allowing them to obtain their birth records in a timely manner from their local Register of Deeds office, ensuring equitable access to vital records and improved customer service; and

WHEREAS, this legislative change would streamline government services, reduce wait times, and foster greater efficiency within the statewide vital records system; and

WHEREAS, the Watauga County Board of Commissioners recognizes the importance of ensuring equitable access to vital records for all residents and supports the efforts of the North Carolina Association of Registers of Deeds to advance this critical legislation.

NOW, THEREFORE, BE IT RESOLVED that the Watauga County Board of Commissioners hereby expresses its strong support for Senate Bill 248 and encourages its swift passage by the North Carolina General Assembly; and

BE IT FURTHER RESOLVED that copies of this resolution be forwarded to members of the North Carolina General Assembly representing Watauga County, as well as to the North Carolina Association of Registers of Deeds.

7.501 125 tills <u>15.</u> day 61 <u>7.51.11</u> , <u>2025</u> .
·
Braxton Eggers, Chairman
Watauga County Board of Commissioners
ATTEST:
Anita J. Fogle, Clerk to the Board

ADOPTED this 1st day of April 2025



AGENDA ITEM 8:

EMERGENCY SERVICES MATTERS:

A. Request for Public Safety Radio System Civil, Tower, & Construction Work

MANAGER'S COMMENTS:

Mr. Will Holt, Emergency Services Director, will request the Board authorize ETS to perform the civil, engineering, and existing tower assessment work in the amount of \$621,460.25. The scope of work will cover the seven (7) towers listed in the memo. Adequate funds have been budgeted to cover the expense.

Board action is required to authorize the expenditure of \$621,460.25 to ETS for civil, engineering, and existing tower assessment work.



Watauga County Emergency Services

184 Hodges Gap Rd, Suite D Boone, NC 28607 Phone 828-264-4235 Fax 828-265-7617



Fire Marshal ♦ Emergency Management ♦ Communications

March 26th, 2024

To: Board of Commissioners

CC: Deron Geouque, County Manager Anita Fogle, Clerk to the Board

Subject: Approval Request for Public Safety Radio System Civil, Tower, and Construction work

Board of Commissioners,

As the public safety radio infrastructure project continues, we are now entering the civil phase on several sites. The first 6 attached quotes are provided to address individual needs at each site for civil or existing tower modification assessment and engineering work. The separate Rich Mountain Construction quote is for completing the civil work itself including the new generator and building installation. The total cost of the ETS proposal is \$621.460.25 and cost have been budgeted in the construction budget for the process. Commissioner approval is requested.

Site	Quote		
Aho	\$ 2,100.00		
Buckeye Knob	\$ 2,100.00		
Phoenix*	\$ 10,750.00		
Powderhorn	\$ 42,550.00		
Rich Mtn	\$ 19,300.00		
Transfer Station	\$ 40,050.00		
Rich Mtn Civil Construction	\$504,610.25		
Total	\$621,460.25		

^{*}Phoenix is a connection point to the VIPER system back to our Watauga County simulcast

Respectfully,

Will Holt ES Director

Contract #: 150694-ETS Engineering			
Site Name:	e: Aho - Viper		
County:	Watauga		
Address:	1388 Sa	mpson Road, Boo	ne, NC 28607

	Address.	1388 Sampson Road, Boone, NC 28607		
#	Rawland:	Qty	Unit Cost	Extended cost
1	Site Visit		\$1,500.00	\$0.00
2	Partial Boundary Survey with Topography and 1A		\$5,500.00	\$0.00
3	Geotechnical/Resistivity Report (per boring location)		\$4,500.00	\$0.00
4	Geotechnical Clearing Moderate Access		\$2,750.00	\$0.00
4a	Geotechnical Clearing Difficult Access		\$3,500.00	\$0.00
5	Site Zoning and Construction Drawings (ZD's)		\$1,750.00	\$0.00
6	Detailed (DOI) Construction Drawings (CD's)		\$3,750.00	\$0.00
7	FCC NEPA Checklist w/SHPO		\$5,500.00	\$0.00
8	Tower Manufacturer Selection		\$1,500.00	\$0.00
9	Tower bid document	1	\$1,100.00	\$1,100.00
10	Tower bid review for up to 3 bids	1	\$1,000.00	\$1,000.00
11	Cost to restake Tower prior to Construction		\$2,250.00	\$0.00
12	Construction: Foundation Inspection		\$2,375.00	\$0.00
13	Construction: Concrete testing (per site visit)		\$1,875.00	\$0.00
14	Post construction inspection		\$2,500.00	\$0.00
15	Construction: Bearing Check		\$3,000.00	\$0.00
16	Construction: Soil Compaction Testing		\$3,000.00	\$0.00
17	Construction: Private Utility Locates		\$2,700.00	\$0.00
18	Construction: Lease Exhibit		\$1,500.00	\$0.00
				\$2,100.00
	Collocation:			
19	Structural Analysis		\$1,500.00	\$0.00
20	Appurtenance Mapping		\$2,450.00	\$0.00
21	Tower Mapping		\$2,850.00	\$0.00
22	FCC Collocation NEPA		\$3,500.00	\$0.00
23	30-Day Electrical Load Study with Data Loggers for SCO		\$2,750.00	\$0.00
				\$0.00
	Tower Modification:			
24	Pre-mod mapping		\$2,500.00	\$0.00
25	Modification design/drawings - standard		\$3,500.00	\$0.00
26	Modification design/drawings - extensive		\$6,000.00	\$0.00
27	Foundation mapping		\$3,500.00	\$0.00
28	Geotechnical investigation (1 soil bore up to 60' depth on SS, 4 soil bores up to 20' for		\$4,500.00	\$0.00
20	guyed towers)		Ş4,300.00	ŞU.UU
29	Geo: addition of rock coring or deep foundation		\$2,000.00	\$0.00
30	Foundation drawings		\$2,000.00	\$0.00
31	Temporary loading letter		\$600.00	\$0.00
32	PMI		\$2,650.00	\$0.00

	T T		
33	Foundation construction inspection	\$3,500.00	\$0.00
34	Cracked Foundation Mapping	\$3,500.00	\$0.00
35	Construction Materials Testing (CMT)	\$2.275.00	\$0.00
33	Foundation Inspection (existing foundation)	\$2,375.00	ŞU.UU
2.6	CWI Inspection (includes before, during, and	¢2.500.00	40.00
36	after inspections per AWS guidelines)	\$3,500.00	\$0.00
37	NDE Weld Inspection	\$1,850.00	\$0.00
38	Rebar Mapping	\$3,750.00	\$0.00
39	Partial Boundary Survey with Topography	\$4,600.00	\$0.00
40	1A Letter	\$900.00	\$0.00
40	TA LECCEI	\$900.00	•
			\$0.00
	Other tasks:	4	4
41	DHS EHP	\$3,000.00	\$0.00
42	DHS - EA/ESA	\$5,500.00	\$0.00
43	NEPA EA	\$3,250.00	\$0.00
44	Centerline Easement survey	\$5,500.00	\$0.00
45	Botantist site inspection and report on USFS	¢2 F00 00	¢0.00
45	land	\$3,500.00	\$0.00
	Wildlife biologist inspection and report on	40.555.55	40.55
46	USFS land	\$3,500.00	\$0.00
47	Balloon Test	\$3,500.00	\$0.00
<u> </u>	Legal Description per State Property Office	ψο,οσσ.σσ	φο.σσ
48	Requirements	\$2,000.00	\$0.00
40		¢1 000 00	\$0.00
49	Ownership Right of Access to Site	\$1,000.00	· · · · · · · · · · · · · · · · · · ·
50	Site Candidate Information Package (SCIP)	\$3,500.00	\$0.00
51	Construction Monitoring at USFS sites (daily	\$1,250.00	\$0.00
	rate)	ψ1)230.00	φο.σσ
52	Public Notice	\$900.00	\$0.00
	T : D :	¢2.000.00	40.00
53	Tribal Reimbursement Fee (TCNS) - standard	\$3,000.00	\$0.00
54	Tribal Reimbursement Fee (TCNS) - moderate	\$8,000.00	\$0.00
55	Tribal Reimbursement Fee (TCNS) - extensive	\$14,000.00	\$0.00
F.6	Class IV Bigging Plan standard	¢1 F00 00	\$0.00
56	Class IV Rigging Plan - standard	\$1,500.00	\$0.00
57	Class IV Rigging Plan - extensive	\$3,000.00	\$0.00
58	TIA Maintenance Drawings	\$1,250.00	\$0.00
59	EOR Review	\$900.00	\$0.00
60	Mount Analysis	\$1,000.00	\$0.00
61	Platform Design Drawings	\$2,500.00	\$0.00
62	Retaining Wall Design Drawings height less	\$4,000.00	\$0.00
02	than 10-ft	٠٠٠,٥٥٥.٥٥	
63	Retaining Wall Design Drawings height	67.500.00	ć0.00
63	greater than 10-ft, but less than 25-ft	\$7,500.00	\$0.00
64	Stormwater Control Measure Inspection	\$1,375.00	\$0.00
65	Special Use Permit - site plan	\$1,750.00	\$0.00
	Special Use Permit - (1) staff member in		
66	attendance at 1 meeting	\$1,250.00	\$0.00
	מננכוועמווכב מנ ב וווכבנוווצ		\$0.00
	Mobilization		Ş0.00
67		4500.00	60.00
67	East Zone	\$600.00	\$0.00
68	Central Zone	\$350.00	\$0.00
69	West Zone	\$850.00	\$0.00

			\$0.00
	TIA Inspection - Self-supporting tower		
70	0' - 250'	\$1,900.00	\$0.00
71	250' - 500'	\$2,150.00	\$0.00
72	501' and above	\$2,400.00	\$0.00
			\$0.00
	TIA Inspection - Guyed tower		
73	0' - 300'	\$1,900.00	\$0.00
74	301' - 600'	\$2,150.00	\$0.00
75	601' - 1,000'	\$3,250.00	\$0.00
			\$0.00
	Guyed tower re-tensioning & re-plumbing		
76	0' - 300'	\$3,750.00	\$0.00
77	301' - 600'	\$4,750.00	\$0.00
78	601' - 1,000'	\$7,750.00	\$0.00
			\$0.00
	\$2,100.00		

Note: mobilization cost assessed by zone per week

Contract #: 150694-ETS Engineering			
Site Name:	Buckeye Mountain - Viper		
County:	Watauga		
Address:	Address: 2542 Forest Grove Road, Vilas, NC		

	Address: 2542 Forest Grove Road, Vilas, NC			
#	Rawland:	Qty	Unit Cost	Extended cost
1	Site Visit		\$1,500.00	\$0.00
2	Partial Boundary Survey with Topography and 1A		\$5,500.00	\$0.00
	Geotechnical/Resistivity Report (per boring			\$0.00
3	location)		\$4,500.00	\$0.00
4	Geotechnical Clearing Moderate Access		\$2,750.00	\$0.00
4a	Geotechnical Clearing Difficult Access		\$3,500.00	\$0.00
5	Site Zoning and Construction Drawings (ZD's)		\$1,750.00	\$0.00
6	Detailed (DOI) Construction Drawings (CD's)		\$3,750.00	\$0.00
7	FCC NEPA Checklist w/SHPO		\$5,500.00	\$0.00
8	Tower Manufacturer Selection		\$1,500.00	\$0.00
9	Tower bid document	1	\$1,100.00	\$1,100.00
10	Tower bid review for up to 3 bids	1	\$1,000.00	\$1,000.00
11	Cost to restake Tower prior to Construction		\$2,250.00	\$0.00
12	Construction: Foundation Inspection		\$2,375.00	\$0.00
13	Construction: Concrete testing (per site visit)		\$1,875.00	\$0.00
14	Post construction inspection		\$2,500.00	\$0.00
15	Construction: Bearing Check		\$3,000.00	\$0.00
16	Construction: Soil Compaction Testing		\$3,000.00	\$0.00
17	Construction: Private Utility Locates		\$2,700.00	\$0.00
18	Construction: Lease Exhibit		\$1,500.00	\$0.00
				\$2,100.00
	Collocation:			
19	Structural Analysis		\$1,500.00	\$0.00
20	Appurtenance Mapping		\$2,450.00	\$0.00
21	Tower Mapping		\$2,850.00	\$0.00
22	FCC Collocation NEPA		\$3,500.00	\$0.00
23	30-Day Electrical Load Study with Data Loggers for SCO		\$2,750.00	\$0.00
				\$0.00
	Tower Modification:			
24	Pre-mod mapping		\$2,500.00	\$0.00
25	Modification design/drawings - standard		\$3,500.00	\$0.00
26	Modification design/drawings - extensive		\$6,000.00	\$0.00
27	Foundation mapping		\$3,500.00	\$0.00
28	Geotechnical investigation (1 soil bore up to 60' depth on SS, 4 soil bores up to 20' for		\$4,500.00	\$0.00
	guyed towers)			
20	Geo: addition of rock coring or deep		¢2.000.00	
29	foundation		\$2,000.00	\$0.00
30	Foundation drawings		\$2,000.00	\$0.00
31	Temporary loading letter		\$600.00	\$0.00
32	PMI		\$2,650.00	\$0.00

	T		4
33	Foundation construction inspection	\$3,500.00	\$0.00
34	Cracked Foundation Mapping	\$3,500.00	\$0.00
35	Construction Materials Testing (CMT)	\$2.275.00	\$0.00
33	Foundation Inspection (existing foundation)	\$2,375.00	\$0.00
2.5	CWI Inspection (includes before, during, and	40.500.00	40.00
36	after inspections per AWS guidelines)	\$3,500.00	\$0.00
37	NDE Weld Inspection	\$1,850.00	\$0.00
38	Rebar Mapping	\$3,750.00	\$0.00
39	Partial Boundary Survey with Topography	\$4,600.00	\$0.00
40	1A Letter	\$900.00	\$0.00
40	TA Letter	\$900.00	
			\$0.00
	Other tasks:		4
41	DHS EHP	\$3,000.00	\$0.00
42	DHS - EA/ESA	\$5,500.00	\$0.00
43	NEPA EA	\$3,250.00	\$0.00
44	Centerline Easement survey	\$5,500.00	\$0.00
4.5	Botantist site inspection and report on USFS	¢2.500.00	¢0.00
45	land	\$3,500.00	\$0.00
	Wildlife biologist inspection and report on	An	
46	USFS land	\$3,500.00	\$0.00
47	Balloon Test	\$3,500.00	\$0.00
<u> </u>	Legal Description per State Property Office	φ3,300.00	φο.σσ
48		\$2,000.00	\$0.00
40	Requirements	¢4.000.00	ć0.00
49	Ownership Right of Access to Site	\$1,000.00	\$0.00
50	Site Candidate Information Package (SCIP)	\$3,500.00	\$0.00
51	Construction Monitoring at USFS sites (daily	\$1,250.00	\$0.00
51	rate)	71,230.00	Ç0.00
52	Public Notice	\$900.00	\$0.00
53	Tribal Reimbursement Fee (TCNS) - standard	\$3,000.00	\$0.00
			· · · · · · · · · · · · · · · · · · ·
54	Tribal Reimbursement Fee (TCNS) - moderate	\$8,000.00	\$0.00
			70.00
55	Tribal Reimbursement Fee (TCNS) - extensive	\$14,000.00	ć0.00
		44 500 00	\$0.00
56	Class IV Rigging Plan - standard	\$1,500.00	\$0.00
57	Class IV Rigging Plan - extensive	\$3,000.00	\$0.00
58	TIA Maintenance Drawings	\$1,250.00	\$0.00
59	EOR Review	\$900.00	\$0.00
60	Mount Analysis	\$1,000.00	\$0.00
61	Platform Design Drawings	\$2,500.00	\$0.00
63	Retaining Wall Design Drawings height less	¢4.000.00	¢0.00
62	than 10-ft	\$4,000.00	\$0.00
	Retaining Wall Design Drawings height	1-	1 -
63	greater than 10-ft, but less than 25-ft	\$7,500.00	\$0.00
64	Stormwater Control Measure Inspection	\$1,375.00	\$0.00
65	Special Use Permit - site plan	\$1,750.00	\$0.00
0.5	Special Use Permit - (1) staff member in	71,730.00	Ç0.00
66		\$1,250.00	\$0.00
	attendance at 1 meeting		ć0.00
	NA a bilination		\$0.00
	Mobilization	40	4
67	East Zone	\$600.00	\$0.00
68	Central Zone	\$350.00	\$0.00
69	West Zone	\$850.00	\$0.00

			\$0.00
	TIA Inspection - Self-supporting tower		
70	0' - 250'	\$1,900.00	\$0.00
71	250' - 500'	\$2,150.00	\$0.00
72	501' and above	\$2,400.00	\$0.00
			\$0.00
	TIA Inspection - Guyed tower		
73	0' - 300'	\$1,900.00	\$0.00
74	301' - 600'	\$2,150.00	\$0.00
75	601' - 1,000'	\$3,250.00	\$0.00
			\$0.00
	Guyed tower re-tensioning & re-plumbing		
76	0' - 300'	\$3,750.00	\$0.00
77	301' - 600'	\$4,750.00	\$0.00
78	601' - 1,000'	\$7,750.00	\$0.00
			\$0.00
		Total Cost	\$2,100.00

Contract #: 150694-ETS Engineering			
Site Name:	Phoenix Mountain (NCSHP)		
County:	Watauga	9	
Address:	1699 Cla	ybank Road, Uni	t 1, Jefferson, NC 2

	Address.	1000 018	ybank Road, Oi	nit 1, Jefferson, NC .
#	Rawland:	Qty	Unit Cost	Extended cost
1	Site Visit		\$1,500.00	\$0.00
2	Partial Boundary Survey with Topography		\$5,500.00	40.00
	and 1A			\$0.00
3	Geotechnical/Resistivity Report (per boring		\$4,500.00	ć0.00
	location)		d2 750 00	\$0.00
4	Geotechnical Clearing Moderate Access		\$2,750.00	\$0.00
4a	Geotechnical Clearing Difficult Access		\$3,500.00	\$0.00
5	Site Zoning and Construction Drawings (ZD's)		\$1,750.00	\$0.00
6	Detailed (DOI) Construction Drawings (CD's)		\$3,750.00	\$0.00
7	FCC NEPA Checklist w/SHPO		\$5,500.00	\$0.00
8	Tower Manufacturer Selection		\$1,500.00	\$0.00
9	Tower bid document	1	\$1,100.00	\$1,100.00
10	Tower bid review for up to 3 bids	1	\$1,000.00	\$1,000.00
11	Cost to restake Tower prior to Construction		\$2,250.00	\$0.00
12	Construction: Foundation Inspection		\$2,375.00	\$0.00
13	Construction: Concrete testing (per site visit)		\$1,875.00	\$0.00
14	Post construction inspection		\$2,500.00	\$0.00
15	Construction: Bearing Check		\$3,000.00	\$0.00
16	Construction: Soil Compaction Testing		\$3,000.00	\$0.00
17	Construction: Private Utility Locates		\$2,700.00	\$0.00
18	Construction: Lease Exhibit		\$1,500.00	\$0.00
				\$2,100.00
	Collocation:			
19	Structural Analysis		\$1,500.00	\$0.00
20	Appurtenance Mapping		\$2,450.00	\$0.00
21	Tower Mapping		\$2,850.00	\$0.00
22	FCC Collocation NEPA		\$3,500.00	\$0.00
23	30-Day Electrical Load Study with Data Loggers for SCO		\$2,750.00	\$0.00
				\$0.00
	Tower Modification:			
24	Pre-mod mapping	1	\$2,500.00	\$2,500.00
25	Modification design/drawings - standard	1	\$3,500.00	\$3,500.00
26	Modification design/drawings - extensive		\$6,000.00	\$0.00
27	Foundation mapping		\$3,500.00	\$0.00
	Geotechnical investigation (1 soil bore up to		. ,	•
28	60' depth on SS, 4 soil bores up to 20' for guyed towers)		\$4,500.00	\$0.00
	Geo: addition of rock coring or deep			
29	foundation		\$2,000.00	\$0.00
30	Foundation drawings		\$2,000.00	\$0.00
31	Temporary loading letter		\$600.00	\$0.00
32	PMI	1	\$2,650.00	\$2,650.00
32	I IVII	1	72,030.00	72,030.00

	1		
33	Foundation construction inspection	\$3,500.00	\$0.00
34	Cracked Foundation Mapping	\$3,500.00	\$0.00
25	Construction Materials Testing (CMT)	¢2.27F.00	¢0.00
35	Foundation Inspection (existing foundation)	\$2,375.00	\$0.00
	CWI Inspection (includes before, during, and	4	4
36	after inspections per AWS guidelines)	\$3,500.00	\$0.00
37	NDE Weld Inspection	\$1,850.00	\$0.00
38	Rebar Mapping	\$3,750.00	\$0.00
39	Partial Boundary Survey with Topography	\$4,600.00	\$0.00
—			
40	1A Letter	\$900.00	\$0.00
			\$8,650.00
	Other tasks:		
41	DHS EHP	\$3,000.00	\$0.00
42	DHS - EA/ESA	\$5,500.00	\$0.00
43	NEPA EA	\$3,250.00	\$0.00
44	Centerline Easement survey	\$5,500.00	\$0.00
4.5	Botantist site inspection and report on USFS	40.500.00	40.00
45	land	\$3,500.00	\$0.00
	Wildlife biologist inspection and report on		
46	USFS land	\$3,500.00	\$0.00
47	Balloon Test	\$3,500.00	\$0.00
47		\$5,500.00	Ş0.00
48	Legal Description per State Property Office	\$2,000.00	\$0.00
	Requirements		
49	Ownership Right of Access to Site	\$1,000.00	\$0.00
50	Site Candidate Information Package (SCIP)	\$3,500.00	\$0.00
	Construction Monitoring at USFS sites (daily	64.250.00	40.00
51	rate)	\$1,250.00	\$0.00
52	Public Notice	\$900.00	\$0.00
			,
53	Tribal Reimbursement Fee (TCNS) - standard	\$3,000.00	\$0.00
			φυ.υυ
54	Tribal Reimbursement Fee (TCNS) - moderate	\$8,000.00	\$0.00
			\$0.00
55	Tribal Reimbursement Fee (TCNS) - extensive	\$14,000.00	40.00
	` '		\$0.00
56	Class IV Rigging Plan - standard	\$1,500.00	\$0.00
57	Class IV Rigging Plan - extensive	\$3,000.00	\$0.00
58	TIA Maintenance Drawings	\$1,250.00	\$0.00
59	EOR Review	\$900.00	\$0.00
60	Mount Analysis	\$1,000.00	\$0.00
61	Platform Design Drawings	\$2,500.00	\$0.00
	Retaining Wall Design Drawings height less		4
62	than 10-ft	\$4,000.00	\$0.00
	Retaining Wall Design Drawings height		
63	greater than 10-ft, but less than 25-ft	\$7,500.00	\$0.00
C 4	,	¢4 37F 00	¢0.00
64	Stormwater Control Measure Inspection	\$1,375.00	\$0.00
65	Special Use Permit - site plan	\$1,750.00	\$0.00
66	Special Use Permit - (1) staff member in	\$1,250.00	\$0.00
	attendance at 1 meeting	, -,	
			\$0.00
	Mobilization		
67	East Zone	\$600.00	\$0.00
68	Central Zone	\$350.00	\$0.00
69	West Zone	\$850.00	\$0.00

			\$0.00
	TIA Inspection - Self-supporting tower		
70	0' - 250'	\$1,900.00	\$0.00
71	250' - 500'	\$2,150.00	\$0.00
72	501' and above	\$2,400.00	\$0.00
			\$0.00
	TIA Inspection - Guyed tower		
73	0' - 300'	\$1,900.00	\$0.00
74	301' - 600'	\$2,150.00	\$0.00
75	601' - 1,000'	\$3,250.00	\$0.00
			\$0.00
	Guyed tower re-tensioning & re-plumbing		
76	0' - 300'	\$3,750.00	\$0.00
77	301' - 600'	\$4,750.00	\$0.00
78	601' - 1,000'	\$7,750.00	\$0.00
			\$0.00
	\$10,750.00		

Contract #: 150694-ETS Engineering			
Site Name:	Powder	Horn Mountain	
County:	: Watauga		
Address:	340 Dee	r Run Road, Ston	y Fork, NC 28607

# Rawland: Qty Unit Cost Extended cost 1 Site Visit				r Karr Koaa, Stor	, ,
2 Partial Boundary Survey with Topography and 1A \$5,500.00 \$0.00 3 Geotechnical/Resistivity Report (per boring location) 1 \$4,500.00 \$4,500.00 4 Geotechnical Clearing - Moderate Access \$2,750.00 \$0.00 4 Geotechnical Clearing - Difficult Access 1 \$3,500.00 \$3,500.00 5 Site Zoning and Construction Drawings (ZD's) \$1,750.00 \$0.00 6 Detailed (DOI) Construction Drawings (CD's) 1 \$3,750.00 \$3,750.00 7 FCC NEPA Checklist w/SHPO \$5,500.00 \$0.00 8 Tower bid document 1 \$1,500.00 \$1,100.00 9 Tower bid document 1 \$1,100.00 \$1,100.00 10 Tower bid review for up to 3 bids 1 \$1,000.00 \$2,250.00 11 Cost to restake Tower prior to Construction 1 \$2,250.00 \$2,250.00 12 Construction: Foundation Inspection 1 \$2,375.00 \$2,375.00 13 Construction: Foundation Inspection 1 \$2,500.00 \$2,500.0	#	Rawland:	Qty	Unit Cost	Extended cost
2	1	Site Visit	2	\$1,500.00	\$3,000.00
1	2			\$5,500.00	\$0.00
4a Geotechnical Clearing Difficult Access 1 \$3,500.00 \$3,500.00 5 Site Zoning and Construction Drawings (ZD's) \$1,750.00 \$0.00 6 Detailed (DOI) Construction Drawings (CD's) 1 \$3,750.00 \$3,750.00 7 FCC NEPA Checklist w/SHPO \$5,500.00 \$0.00 8 Tower Manufacturer Selection 1 \$1,500.00 \$1,500.00 9 Tower bid document 1 \$1,000.00 \$1,000.00 10 Tower bid document 1 \$1,000.00 \$1,000.00 11 Cost to restake Tower prior to Construction 1 \$2,250.00 \$2,250.00 12 Construction: Foundation Inspection 1 \$2,375.00 \$2,250.00 13 Construction: Foundation Inspection 1 \$2,375.00 \$2,375.00 14 Post construction: Soil Construction 1 \$2,375.00 \$2,375.00 15 Construction: Bearing Check 1 \$3,000.00 \$3,000.00 16 Construction: Soil Compaction Testing \$3,000.00 \$2,700.00	3	, , , , , ,	1	\$4,500.00	\$4,500.00
4a Geotechnical Clearing Difficult Access 1 \$3,500.00 \$3,500.00 5 Site Zoning and Construction Drawings (ZD's) \$1,750.00 \$0.00 6 Detailed (DOI) Construction Drawings (CD's) 1 \$3,750.00 \$3,750.00 7 FCC NEPA Checklist w/SHPO \$5,500.00 \$0.00 8 Tower Manufacturer Selection 1 \$1,500.00 \$1,500.00 9 Tower bid document 1 \$1,000.00 \$1,000.00 10 Tower bid document 1 \$1,000.00 \$1,000.00 11 Cost to restake Tower prior to Construction 1 \$2,250.00 \$2,250.00 12 Construction: Foundation Inspection 1 \$2,375.00 \$2,250.00 13 Construction: Foundation Inspection 1 \$2,375.00 \$2,375.00 14 Post construction: Soil Construction 1 \$2,375.00 \$2,375.00 15 Construction: Bearing Check 1 \$3,000.00 \$3,000.00 16 Construction: Soil Compaction Testing \$3,000.00 \$2,700.00	4	Geotechnical Clearing Moderate Access		\$2,750.00	\$0.00
Detailed (DOI) Construction Drawings (CD's) 1 \$3,750.00 \$3,750.00	4a		1		\$3,500.00
FCC NEPA Checklist w/SHPO	5	Site Zoning and Construction Drawings (ZD's)		\$1,750.00	\$0.00
Tower Manufacturer Selection	6	Detailed (DOI) Construction Drawings (CD's)	1	\$3,750.00	\$3,750.00
Tower bid document	7	FCC NEPA Checklist w/SHPO		\$5,500.00	\$0.00
Tower bid review for up to 3 bids	8	Tower Manufacturer Selection	1	\$1,500.00	\$1,500.00
11 Cost to restake Tower prior to Construction 1 \$2,250.00 \$2,250.00	9	Tower bid document	1	\$1,100.00	\$1,100.00
12 Construction: Foundation Inspection 1 \$2,375.00 \$2,375.00 \$1,875.00 \$2,500.00 \$1,875.00 \$2,500.00 \$1,500.00 \$3,000.00 \$3,000.00 \$1,500.00 \$3,000.00 \$1,500.00 \$2,700.00 \$1,500.00 \$2,700.00 \$1,500.00 \$2,700.00 \$1,500.00 \$2,700.00 \$1,500.00 \$2,700.00 \$1,50	10	Tower bid review for up to 3 bids	1	\$1,000.00	\$1,000.00
13 Construction: Concrete testing (per site visit) 1 \$1,875.00 \$1,875.00 14 Post construction inspection 1 \$2,500.00 \$2,500.00 15 Construction: Bearing Check 1 \$3,000.00 \$3,000.00 16 Construction: Soil Compaction Testing \$3,000.00 \$0.00 17 Construction: Private Utility Locates 1 \$2,700.00 \$2,700.00 18 Construction: Lease Exhibit \$1,500.00 \$0.00 19 Structural Analysis \$1,500.00 \$0.00 20 Appurtenance Mapping \$2,450.00 \$0.00 21 Tower Mapping \$2,2450.00 \$0.00 22 FCC Collocation NEPA \$3,500.00 \$0.00 23 30-Day Electrical Load Study with Data Loggers for SCO \$0.00 24 Pre-mod mapping \$2,750.00 \$0.00 25 Modification: \$0.00 26 Modification design/drawings - standard \$3,500.00 \$0.00 27 Foundation mapping \$3,500.00 \$0.00 28 60' depth on SS, 4 soil bores up to 60' depth on SS, 4 soil bores up to 20' for guyed towers) \$0.00 \$0.00 29 Geo: addition drawings \$2,000.00 \$0.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00	11	Cost to restake Tower prior to Construction	1	\$2,250.00	\$2,250.00
14 Post construction inspection 1 \$2,500.00 \$2,500.00 15 Construction: Bearing Check 1 \$3,000.00 \$3,000.00 16 Construction: Soil Compaction Testing \$3,000.00 \$0.00 17 Construction: Private Utility Locates 1 \$2,700.00 \$2,700.00 18 Construction: Lease Exhibit \$1,500.00 \$0.00 Collocation: \$33,050.00 20 Appurtenance Mapping \$2,450.00 \$0.00 21 Tower Mapping \$2,450.00 \$0.00 22 FCC Collocation NEPA \$3,500.00 \$0.00 23 30-Day Electrical Load Study with Data Loggers for SCO \$2,750.00 \$0.00 Tower Modification: \$2,750.00 \$0.00 24 Pre-mod mapping \$2,500.00 \$0.00 25 Modification design/drawings - standard \$3,500.00 \$0.00 26 Modification design/drawings - extensive \$6,000.00 \$0.00 27 Foundation mapping \$3,500.00 \$0.00 28 60' depth on SS, 4 soil bores up to 20' for guyed towers) \$4,500.00 \$0.00 29 Geo: addition of rock coring or deep foundation \$2,000.00 \$0.00	12	Construction: Foundation Inspection	1	\$2,375.00	\$2,375.00
15 Construction: Bearing Check 1 \$3,000.00 \$3,000.00 16 Construction: Soil Compaction Testing \$3,000.00 \$0.00 17 Construction: Private Utility Locates 1 \$2,700.00 \$2,700.00 18 Construction: Lease Exhibit \$1,500.00 \$0.00 19 Structural Analysis \$1,500.00 \$0.00 20 Appurtenance Mapping \$2,450.00 \$0.00 21 Tower Mapping \$2,850.00 \$0.00 22 FCC Collocation NEPA \$3,500.00 \$0.00 23 30-Day Electrical Load Study with Data Loggers for SCO \$0.00 24 Pre-mod mapping \$2,750.00 \$0.00 25 Modification design/drawings - standard \$3,500.00 \$0.00 26 Modification design/drawings - extensive \$6,000.00 \$0.00 27 Foundation mapping \$3,500.00 \$0.00 28 60' depth on SS, 4 soil bores up to 20' for guyed towers) \$4,500.00 \$0.00 30 Foundation drawings \$2,000.00 \$0.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00	13	Construction: Concrete testing (per site visit)	1	\$1,875.00	\$1,875.00
16 Construction: Soil Compaction Testing \$3,000.00 \$0.00 17 Construction: Private Utility Locates 1 \$2,700.00 \$2,700.00 18 Construction: Lease Exhibit \$1,500.00 \$0.00 19 Structural Analysis \$1,500.00 \$0.00 20 Appurtenance Mapping \$2,450.00 \$0.00 21 Tower Mapping \$2,850.00 \$0.00 22 FCC Collocation NEPA \$3,500.00 \$0.00 23 30-Day Electrical Load Study with Data Loggers for SCO \$0.00 Tower Modification: \$2,750.00 \$0.00 24 Pre-mod mapping \$2,500.00 \$0.00 25 Modification design/drawings - standard \$3,500.00 \$0.00 26 Modification design/drawings - extensive \$6,000.00 \$0.00 27 Foundation mapping \$3,500.00 \$0.00 28 60' depth on SS, 4 soil bores up to 20' for guyed towers \$4,500.00 \$0.00 29 Geo: addition drawings \$2,000.00 \$0.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00	14	Post construction inspection	1	\$2,500.00	\$2,500.00
17 Construction: Private Utility Locates 1 \$2,700.00 \$2,700.00 18 Construction: Lease Exhibit \$1,500.00 \$0.00 Collocation: 19 Structural Analysis \$1,500.00 \$0.00 20 Appurtenance Mapping \$2,450.00 \$0.00 21 Tower Mapping \$2,850.00 \$0.00 22 FCC Collocation NEPA \$3,500.00 \$0.00 23 30-Day Electrical Load Study with Data Loggers for SCO \$2,750.00 \$0.00 Tower Modification: 24 Pre-mod mapping \$2,500.00 \$0.00 25 Modification design/drawings - standard \$3,500.00 \$0.00 26 Modification design/drawings - extensive \$6,000.00 \$0.00 27 Foundation mapping \$3,500.00 \$0.00 28 60' depth on SS, 4 soil bores up to 20' for guyed towers) \$4,500.00 \$0.00 29 Geo: addition of rock coring or deep foundation 1 \$2,000.00 \$0.00 30 Foundation drawings <t< td=""><td>15</td><td></td><td>1</td><td></td><td></td></t<>	15		1		
Structural Analysis \$1,500.00 \$0.00	16	Construction: Soil Compaction Testing		\$3,000.00	\$0.00
Structural Analysis \$1,500.00 \$0.00	17	Construction: Private Utility Locates	1	\$2,700.00	\$2,700.00
Collocation: 19 Structural Analysis \$1,500.00 \$0.00 20 Appurtenance Mapping \$2,450.00 \$0.00 21 Tower Mapping \$2,850.00 \$0.00 22 FCC Collocation NEPA \$3,500.00 \$0.00 23 30-Day Electrical Load Study with Data Loggers for SCO \$2,750.00 \$0.00 Tower Modification: 24 Pre-mod mapping \$2,500.00 \$0.00 25 Modification design/drawings - standard \$3,500.00 \$0.00 26 Modification design/drawings - extensive \$6,000.00 \$0.00 27 Foundation mapping \$3,500.00 \$0.00 Geotechnical investigation (1 soil bore up to 60' depth on SS, 4 soil bores up to 20' for guyed towers) \$4,500.00 \$0.00 29 Geo: addition of rock coring or deep foundation 1 \$2,000.00 \$2,000.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00	18	Construction: Lease Exhibit			\$0.00
19 Structural Analysis \$1,500.00 \$0.00 20 Appurtenance Mapping \$2,450.00 \$0.00 21 Tower Mapping \$2,850.00 \$0.00 22 FCC Collocation NEPA \$3,500.00 \$0.00 23 30-Day Electrical Load Study with Data Loggers for SCO \$0.00					\$33,050.00
20 Appurtenance Mapping \$2,450.00 \$0.00 21 Tower Mapping \$2,850.00 \$0.00 22 FCC Collocation NEPA \$3,500.00 \$0.00 23 30-Day Electrical Load Study with Data Loggers for SCO \$0.00 Tower Modification: \$0.00 24 Pre-mod mapping \$2,500.00 \$0.00 25 Modification design/drawings - standard \$3,500.00 \$0.00 26 Modification design/drawings - extensive \$6,000.00 \$0.00 27 Foundation mapping \$3,500.00 \$0.00 28 60' depth on SS, 4 soil bores up to 20' for guyed towers) \$4,500.00 \$0.00 29 Geo: addition of rock coring or deep foundation \$2,000.00 \$2,000.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00		Collocation:			
21 Tower Mapping \$2,850.00 \$0.00 22 FCC Collocation NEPA \$3,500.00 \$0.00 23 30-Day Electrical Load Study with Data Loggers for SCO	19	Structural Analysis		\$1,500.00	\$0.00
22 FCC Collocation NEPA \$3,500.00 \$0.00 23 30-Day Electrical Load Study with Data Loggers for SCO \$2,750.00 \$0.00 Tower Modification: \$2,500.00 \$0.00 24 Pre-mod mapping \$2,500.00 \$0.00 25 Modification design/drawings - standard \$3,500.00 \$0.00 26 Modification design/drawings - extensive \$6,000.00 \$0.00 27 Foundation mapping \$3,500.00 \$0.00 Geotechnical investigation (1 soil bore up to 28 60' depth on SS, 4 soil bores up to 20' for guyed towers) \$4,500.00 \$0.00 29 Geo: addition of rock coring or deep foundation \$2,000.00 \$2,000.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00	20	Appurtenance Mapping		\$2,450.00	\$0.00
23 30-Day Electrical Load Study with Data Loggers for SCO	21	Tower Mapping		\$2,850.00	\$0.00
23 30-Day Electrical Load Study with Data Loggers for SCO	22	FCC Collocation NEPA		\$3,500.00	\$0.00
\$0.00 Tower Modification:	23			\$2,750.00	\$0.00
24 Pre-mod mapping \$2,500.00 \$0.00 25 Modification design/drawings - standard \$3,500.00 \$0.00 26 Modification design/drawings - extensive \$6,000.00 \$0.00 27 Foundation mapping \$3,500.00 \$0.00 28 60' depth on SS, 4 soil bores up to 20' for guyed towers) \$4,500.00 \$0.00 29 Geo: addition of rock coring or deep foundation 1 \$2,000.00 \$2,000.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00		36			\$0.00
25 Modification design/drawings - standard \$3,500.00 \$0.00 26 Modification design/drawings - extensive \$6,000.00 \$0.00 27 Foundation mapping \$3,500.00 \$0.00 Geotechnical investigation (1 soil bore up to \$4,500.00 \$0.00 28 60' depth on SS, 4 soil bores up to 20' for guyed towers) \$4,500.00 \$0.00 29 Geo: addition of rock coring or deep foundation 1 \$2,000.00 \$2,000.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00		Tower Modification:			·
25 Modification design/drawings - standard \$3,500.00 \$0.00 26 Modification design/drawings - extensive \$6,000.00 \$0.00 27 Foundation mapping \$3,500.00 \$0.00 Geotechnical investigation (1 soil bore up to \$4,500.00 \$0.00 28 60' depth on SS, 4 soil bores up to 20' for guyed towers) \$4,500.00 \$0.00 29 Geo: addition of rock coring or deep foundation 1 \$2,000.00 \$2,000.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00	24			\$2,500.00	\$0.00
26 Modification design/drawings - extensive \$6,000.00 \$0.00 27 Foundation mapping \$3,500.00 \$0.00 Geotechnical investigation (1 soil bore up to 60' depth on SS, 4 soil bores up to 20' for guyed towers) \$4,500.00 \$0.00 29 Geo: addition of rock coring or deep foundation 1 \$2,000.00 \$2,000.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00	25				
27 Foundation mapping \$3,500.00 \$0.00 Geotechnical investigation (1 soil bore up to 60' depth on SS, 4 soil bores up to 20' for guyed towers) \$4,500.00 \$0.00 29 Geo: addition of rock coring or deep foundation 1 \$2,000.00 \$2,000.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00					
Geotechnical investigation (1 soil bore up to 60' depth on SS, 4 soil bores up to 20' for guyed towers) 29 Geo: addition of rock coring or deep foundation 1 \$2,000.00 \$2,000.00 \$30 Foundation drawings \$2,000.00 \$0.00 \$0.00 \$10.00 \$2,000.00 \$2,000.00 \$2,000.00 \$2,000.00 \$2,000.00 \$31 Temporary loading letter \$600.00 \$0.00					
28 60' depth on SS, 4 soil bores up to 20' for guyed towers) \$4,500.00 \$0.00 29 Geo: addition of rock coring or deep foundation 1 \$2,000.00 \$2,000.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00		•		. ,	,
29 foundation 1 \$2,000.00 \$2,000.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00	28			\$4,500.00	\$0.00
31 Temporary loading letter \$600.00 \$0.00	29	Geo: addition of rock coring or deep	1	\$2,000.00	\$2,000.00
31 Temporary loading letter \$600.00 \$0.00	30			\$2,000.00	\$0.00
	31				
					•

33 Foundation construction inspection \$3,500.00 34 Cracked Foundation Mapping \$3,500.00 Construction Materials Testing (CMT) \$2,375.00	\$0.00 \$0.00
Construction Materials Testing (CMT) \$2,375,00	\$0.00
Construction Materials Testing (CMT) \$2,375,00	
1 35 1	do 00
Foundation Inspection (existing foundation)	\$0.00
CWI Inspection (includes before during and	
36 after inspections per AWS guidelines) \$3,500.00	\$0.00
37 NDE Weld Inspection \$1,850.00	\$0.00
 	\$0.00
39 Partial Boundary Survey with Topography \$4,600.00	\$0.00
40 1A Letter \$900.00	\$0.00
	\$2,000.00
Other tasks:	
41 DHS EHP \$3,000.00	\$0.00
42 DHS - EA/ESA \$5,500.00	\$0.00
43 NEPA EA \$3,250.00	\$0.00
44 Centerline Easement survey \$5,500.00	\$0.00
Botantist site inspection and report on USFS	40.00
45 land \$3,500.00	\$0.00
Wildlife hiologist inspection and report on	
46 USFS land \$3,500.00	\$0.00
47 Balloon Test \$3,500.00	\$0.00
Legal Description per State Property Office	70.00
1 48 1 - 1 52 000 00	\$0.00
Requirements \$2,000.00	÷0.00
49 Ownership Right of Access to Site \$1,000.00	\$0.00
50 Site Candidate Information Package (SCIP) \$3,500.00	\$0.00
Construction Monitoring at USFS sites (daily \$1,250.00	\$0.00
rate) 71,230.00	70.00
52 Public Notice \$900.00	\$0.00
53 Tribal Reimbursement Fee (TCNS) - standard \$3,000.00	\$0.00
54 Tribal Reimbursement Fee (TCNS) - moderate \$8,000.00	\$0.00
55 Tribal Reimbursement Fee (TCNS) - extensive \$14,000.00	\$0.00
56 61 11/15: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	÷0.00
56 Class IV Rigging Plan - standard \$1,500.00	\$0.00
57 Class IV Rigging Plan - extensive \$3,000.00	\$0.00
58 TIA Maintenance Drawings \$1,250.00	\$0.00
59 EOR Review \$900.00	\$0.00
60 Mount Analysis \$1,000.00	\$0.00
61 Platform Design Drawings \$2,500.00	\$0.00
Retaining Wall Design Drawings height less \$4,000.00	\$0.00
62 than 10-ft \$4,000.00	\$0.00
Retaining Wall Design Drawings height	A
63 greater than 10-ft, but less than 25-ft 1 \$7,500.00	\$7,500.00
64 Stormwater Control Measure Inspection \$1,375.00	\$0.00
65 Special Use Permit - site plan \$1,750.00	\$0.00
Special Use Permit - (1) staff member in	
66 attendance at 1 meeting \$1,250.00	\$0.00
attenuance at 1 meeting	\$7,500.00
	\$7,500.00
Mobilization	
Mobilization 6500.00	40.00
67 East Zone \$600.00	\$0.00
	\$0.00 \$0.00 \$0.00

			\$0.00
	TIA Inspection - Self-supporting tower		
70	0' - 250'	\$1,900.00	\$0.00
71	250' - 500'	\$2,150.00	\$0.00
72	501' and above	\$2,400.00	\$0.00
			\$0.00
	TIA Inspection - Guyed tower		
73	0' - 300'	\$1,900.00	\$0.00
74	301' - 600'	\$2,150.00	\$0.00
75	601' - 1,000'	\$3,250.00	\$0.00
			\$0.00
	Guyed tower re-tensioning & re-plumbing		
76	0' - 300'	\$3,750.00	\$0.00
77	301' - 600'	\$4,750.00	\$0.00
78	601' - 1,000'	\$7,750.00	\$0.00
			\$0.00
	\$42,550.00		

Contract #: 150694-ETS Engineering			
Site Name:	Rich Mountain		
County:	: Watauga		
Address:	: 759 Fire Tower Road, Boone, NC 28607		

# Rawland: Qty Unit Cost Extended cost 1 Site Visit				Tower Road, Bo	,
2 Partial Boundary Survey with Topography and 1A \$55,500.00 \$0.00 3 Geotechnical/Resistivity Report (per boring location) \$4,500.00 \$0.00 4 Geotechnical Clearing - Moderate Access \$2,750.00 \$0.00 4a Geotechnical Clearing - Difficult Access \$3,500.00 \$0.00 5 Site Zoning and Construction Drawings (ZD's) \$1,750.00 \$1,750.00 6 Detailed (DOI) Construction Drawings (CD's) \$3,750.00 \$0.00 7 FCC NEPA Checklist w/SHPO \$5,500.00 \$0.00 8 Tower bid document \$1,100.00 \$1,100.00 9 Tower bid document \$1,100.00 \$1,100.00 10 Tower bid review for up to 3 bids \$1,500.00 \$0.00 11 Cost to restake Tower prior to Construction \$2,250.00 \$0.00 12 Construction: Foundation Inspection \$2,375.00 \$2,375.00 13 Construction: Foundation Inspection \$1,875.00 \$1,875.00 14 Post construction: Specifical Construction: Specifical Construction: Specifical Construction: Specifical Construction: Specific	#	Rawland:	Qty	Unit Cost	Extended cost
2	1	Site Visit	1	\$1,500.00	\$1,500.00
3 Geotechnical/Resistivity Report (per boring location) S4,500.00 S0.00	2			\$5,500.00	\$0.00
4 Geotechnical Clearing Moderate Access \$2,750.00 \$0.00	3	Geotechnical/Resistivity Report (per boring		\$4,500.00	\$0.00
4a Geotechnical Clearing Difficult Access \$3,500.00 \$0.00	4			\$2.750.00	\$0.00
5 Site Zoning and Construction Drawings (ZD's) 1 \$1,750.00 \$1,750.00 6 Detailed (DOI) Construction Drawings (CD's) \$3,750.00 \$0.00 7 FCC NEPA Checklist w/SHPO \$5,500.00 \$0.00 8 Tower Manufacturer Selection 1 \$1,500.00 \$1,500.00 9 Tower bid document 1 \$1,100.00 \$1,100.00 10 Tower bid review for up to 3 bids 1 \$1,000.00 \$1,000.00 11 Cost to restake Tower prior to Construction \$2,250.00 \$0.00 12 Construction: Foundation Inspection 1 \$2,375.00 \$2,375.00 13 Construction: Foundation Inspection 1 \$2,375.00 \$1,875.00 14 Post construction: Soil Concrete testing (per site visit) 1 \$1,875.00 \$1,875.00 14 Post construction: Inspection 1 \$2,500.00 \$2,375.00 15 Construction: Soil Compaction Testing \$3,000.00 \$3,000.00 \$3,000.00 \$2,000.00 17 Construction: Private Utility Locates					·
FCC NEPA Checklist w/SHPO			1		
Tower Manufacturer Selection	6	Detailed (DOI) Construction Drawings (CD's)		\$3,750.00	\$0.00
9 Tower bid document	7	FCC NEPA Checklist w/SHPO		\$5,500.00	\$0.00
10 Tower bid review for up to 3 bids 1 \$1,000.00 \$1,000.00	8	Tower Manufacturer Selection	1	\$1,500.00	\$1,500.00
11 Cost to restake Tower prior to Construction \$2,250.00 \$0.00	9	Tower bid document	1	\$1,100.00	\$1,100.00
11 Cost to restake Tower prior to Construction \$2,250.00 \$0.00	10	Tower bid review for up to 3 bids	1	\$1,000.00	\$1,000.00
13 Construction: Concrete testing (per site visit) 1 \$1,875.00 \$1,875.00 14 Post construction inspection 1 \$2,500.00 \$2,500.00 15 Construction: Bearing Check 1 \$3,000.00 \$3,000.00 16 Construction: Soil Compaction Testing \$3,000.00 \$0.00 17 Construction: Private Utility Locates 1 \$2,700.00 \$2,700.00 18 Construction: Lease Exhibit \$1,500.00 \$0.00 18 Construction: Lease Exhibit \$1,500.00 \$0.00 20 Appurtenance Mapping \$2,450.00 \$0.00 20 Appurtenance Mapping \$2,850.00 \$0.00 21 Tower Mapping \$2,850.00 \$0.00 22 FCC Collocation NEPA \$3,500.00 \$0.00 23 30-Day Electrical Load Study with Data Loggers for SCO \$2,750.00 \$0.00 24 Pre-mod mapping \$2,500.00 \$0.00 25 Modification: \$0.00 \$0.00 26 Modification design/drawings - e	11	Cost to restake Tower prior to Construction		\$2,250.00	\$0.00
13 Construction: Concrete testing (per site visit) 1 \$1,875.00 \$1,875.00 14 Post construction inspection 1 \$2,500.00 \$2,500.00 15 Construction: Bearing Check 1 \$3,000.00 \$3,000.00 16 Construction: Soil Compaction Testing \$3,000.00 \$0.00 17 Construction: Private Utility Locates 1 \$2,700.00 \$2,700.00 18 Construction: Lease Exhibit \$1,500.00 \$0.00 18 Construction: Lease Exhibit \$1,500.00 \$0.00 20 Appurtenance Mapping \$2,450.00 \$0.00 20 Appurtenance Mapping \$2,850.00 \$0.00 21 Tower Mapping \$2,850.00 \$0.00 22 FCC Collocation NEPA \$3,500.00 \$0.00 23 30-Day Electrical Load Study with Data Loggers for SCO \$2,750.00 \$0.00 24 Pre-mod mapping \$2,500.00 \$0.00 25 Modification: \$0.00 \$0.00 26 Modification design/drawings - e	12	Construction: Foundation Inspection	1	\$2,375.00	\$2,375.00
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23 30-Day Electrical Load Study with Data Loggers for SCO	22	FCC Collocation NEPA		\$3,500.00	\$0.00
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	31				

33 Caracked Foundation (Mapping \$3,500.00 \$0.00 36 Caracked Foundation (Mapping \$3,500.00 \$0.00 37 NoEweld Inspection (Existing foundation) \$2,375.00 \$0.00 38 Rebar Mapping \$3,500.00 \$0.00 39 Partial Boundary Survey with Topography \$4,600.00 \$0.00 40 1A Letter \$900.00 \$0.00 40 1A Letter \$900.00 \$0.00 41 DHS EHP \$3,000.00 \$0.00 42 DHS - EA/ESA \$5,500.00 \$0.00 43 NEPA EA \$3,250.00 \$0.00 44 Centerfule Easement survey \$5,500.00 \$0.00 45 Balloon Test \$3,500.00 \$0.00 46 Wildlife biologist inspection and report on USFS \$3,500.00 \$0.00 48 Legal Description per State Property Office \$2,000.00 \$0.00 49 Ownership Right of Access to Site \$3,500.00 \$0.00 40 Ownership Right of Access to Site \$3,000.00 \$0.00 50 Site Candidate Information Package (SCIP) \$3,500.00 \$0.00 50 Tribal Reimbursement Fee (TCNS) - standard \$3,000.00 \$0.00 50 Class IV Rigging Plan - standard \$3,000.00 \$0.00 50 Retaining Wall Design Drawings \$1,250.00 \$0.00 50 Sin Retaining Wall Design Drawings - height less than 10-ft \$4,250.00 \$0.00 \$0.00 50 Special Use Permit - Isle plan \$1,250.00 \$0.00 \$0.00 51 Class IV Rigging Plan - standard \$1,250.00 \$0.				
South	33	Foundation construction inspection	\$3,500.00	\$0.00
Section Sect	34	Cracked Foundation Mapping	\$3,500.00	\$0.00
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after inspections per AWS guidelines S3,500.00 S0.00 S	33	Foundation Inspection (existing foundation)	\$2,373.00	\$0.00
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44 Centerline Easement survey	42	DHS - EA/ESA	\$5,500.00	\$0.00
Botantist site inspection and report on USFS	43	NEPA EA	\$3,250.00	\$0.00
As Iand Wildlife biologist inspection and report on Wildlife biologist inspection and report on Sa,500.00 \$0.00	44	Centerline Easement survey	\$5,500.00	\$0.00
land	45	Botantist site inspection and report on USFS	¢3 F00 00	¢0.00
USFS land	45	land	\$3,500.00	\$0.00
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57 Class IV Rigging Plan - extensive \$3,000.00 \$0.00 58 TIA Maintenance Drawings \$1,250.00 \$0.00 59 EOR Review \$900.00 \$0.00 60 Mount Analysis \$1,000.00 \$0.00 61 Platform Design Drawings \$2,500.00 \$0.00 62 Retaining Wall Design Drawings height less than 10-ft \$4,000.00 \$0.00 63 Retaining Wall Design Drawings height greater than 10-ft, but less than 25-ft \$7,500.00 \$0.00 64 Stormwater Control Measure Inspection \$1,375.00 \$0.00 65 Special Use Permit - site plan \$1,750.00 \$0.00 66 Special Use Permit - (1) staff member in attendance at 1 meeting \$1,250.00 \$0.00 Mobilization \$0.00 \$0.00 67 East Zone \$600.00 \$0.00 68 Central Zone \$350.00 \$0.00	<u> </u>	Class IV Dispires Dispressions dend	Ć4 F00 00	ć0.00
58 TIA Maintenance Drawings \$1,250.00 \$0.00 59 EOR Review \$900.00 \$0.00 60 Mount Analysis \$1,000.00 \$0.00 61 Platform Design Drawings \$2,500.00 \$0.00 62 Retaining Wall Design Drawings height less than 10-ft \$4,000.00 \$0.00 63 Retaining Wall Design Drawings height greater than 10-ft, but less than 25-ft \$7,500.00 \$0.00 64 Stormwater Control Measure Inspection \$1,375.00 \$0.00 65 Special Use Permit - site plan \$1,750.00 \$0.00 66 Special Use Permit - (1) staff member in attendance at 1 meeting \$1,250.00 \$0.00 Mobilization \$600.00 \$0.00 67 East Zone \$600.00 \$0.00 68 Central Zone \$350.00 \$0.00		30 0		
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than 10-ft Retaining Wall Design Drawings height greater than 10-ft, but less than 25-ft Stormwater Control Measure Inspection Special Use Permit - site plan Special Use Permit - (1) staff member in attendance at 1 meeting Mobilization Fast Zone Square (1) \$4,000.00 \$0.00	61	Platform Design Drawings	\$2,500.00	\$0.00
Special Use Permit - (1) staff member in attendance at 1 meeting Special Zone	63	Retaining Wall Design Drawings height less	\$4,000,00	\$0.00
Stormwater Control Measure Inspection \$1,375.00 \$0.00	62	than 10-ft	\$4,000.00	Ş U.UU
Stormwater Control Measure Inspection \$1,375.00 \$0.00		Retaining Wall Design Drawings height	4	4
64 Stormwater Control Measure Inspection \$1,375.00 \$0.00 65 Special Use Permit - site plan \$1,750.00 \$0.00 66 Special Use Permit - (1) staff member in attendance at 1 meeting \$1,250.00 \$0.00 Mobilization \$0.00 \$0.00 67 East Zone \$600.00 \$0.00 68 Central Zone \$350.00 \$0.00	63		\$7,500.00	\$0.00
65 Special Use Permit - site plan \$1,750.00 \$0.00 66 Special Use Permit - (1) staff member in attendance at 1 meeting \$1,250.00 \$0.00 Mobilization \$0.00 \$0.00 67 East Zone \$600.00 \$0.00 68 Central Zone \$350.00 \$0.00	64	,	\$1,375.00	\$0.00
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67 East Zone \$600.00 \$0.00 68 Central Zone \$350.00 \$0.00		Mobilization		ŞU.UU
68 Central Zone \$350.00 \$0.00	<u></u>		4000	4
1222				
69 West Zone \$850.00 \$0.00				
	69	West Zone	\$850.00	\$0.00

			\$0.00				
	TIA Inspection - Self-supporting tower						
70	0' - 250'	\$1,900.00	\$0.00				
71	250' - 500'	\$2,150.00	\$0.00				
72	501' and above	\$2,400.00	\$0.00				
			\$0.00				
	TIA Inspection - Guyed tower						
73	0' - 300'	\$1,900.00	\$0.00				
74	301' - 600'	\$2,150.00	\$0.00				
75	601' - 1,000'	\$3,250.00	\$0.00				
			\$0.00				
	Guyed tower re-tensioning & re-plumbing						
76	0' - 300'	\$3,750.00	\$0.00				
77	301' - 600'	\$4,750.00	\$0.00				
78	601' - 1,000'	\$7,750.00	\$0.00				
			\$0.00				
	Total Cost						

Contract #: 150694-ETS Engineering			
Site Name:	Wataug	a County Transfe	r Station
County:	Wataug	а	
Address:	Boat Ro	ck Loop, Boone, N	NC 28607

# Rawland: Qty Unit Cost Extended cost 1 Site Visit 2 \$1,500.00 \$3,000.00 \$4,500.00 \$4		Address:	boat Ro	ck Loop, Boone,	NC 28607
2 Partial Boundary Survey with Topography and 1A \$5,500.00 \$0.00 3 Geotechnical/Resistivity Report (per boring location) 1 \$4,500.00 \$4,500.00 4 Geotechnical Clearing – Moderate Access \$2,750.00 \$0.00 4 Geotechnical Clearing – Difficult Access \$3,500.00 \$10,500.00 5 Site Zoning and Construction Drawings (ZD's) \$1,750.00 \$1,750.00 6 Detailed (DOI) Construction Drawings (CD's) \$3,750.00 \$0.00 7 FCC NEPA Checklist w/SHPO \$5,500.00 \$0.00 8 Tower Manufacturer Selection 1 \$1,500.00 \$1,500.00 9 Tower bid document 1 \$1,000.00 \$1,100.00 10 Tower bid review for up to 3 bids 1 \$1,000.00 \$1,000.00 11 Construction: Foundation Inspection 1 \$2,250.00 \$2,250.00 12 Construction: Foundation Inspection 1 \$2,375.00 \$2,375.00 13 Construction: Foundation Inspection 1 \$2,500.00 \$2,500.00 <	#	Rawland:	Qty	Unit Cost	Extended cost
2	1	Site Visit	2	\$1,500.00	\$3,000.00
1	2			\$5,500.00	\$0.00
4a Geotechnical Clearing - Difficult Access 3 \$3,500.00 \$10,500.00 5 Site Zoning and Construction Drawings (ZD's) 1 \$1,750.00 \$1,750.00 6 Detailed (DOI) Construction Drawings (CD's) \$3,750.00 \$0.00 7 FCC NEPA Checklist w/SHPO \$5,500.00 \$1,500.00 8 Tower Manufacturer Selection 1 \$1,500.00 \$1,000.00 9 Tower bid document 1 \$1,000.00 \$1,000.00 10 Tower bid document 1 \$1,000.00 \$1,000.00 11 Cost to restake Tower prior to Construction 1 \$2,250.00 \$2,250.00 12 Construction: Foundation Inspection 1 \$2,375.00 \$2,375.00 13 Construction: Concrete testing (per site visit) 1 \$1,875.00 \$2,250.00 14 Post construction inspection 1 \$2,500.00 \$2,500.00 15 Construction: Searing Check 1 \$3,000.00 \$3,000.00 16 Construction: Searing Check 1 \$3,000.00 \$2	3		1	\$4,500.00	\$4,500.00
4a Geotechnical Clearing - Difficult Access 3 \$3,500.00 \$10,500.00 5 Site Zoning and Construction Drawings (ZD's) 1 \$1,750.00 \$1,750.00 6 Detailed (DOI) Construction Drawings (CD's) \$3,750.00 \$0.00 7 FCC NEPA Checklist w/SHPO \$5,500.00 \$0.00 8 Tower Manufacturer Selection 1 \$1,500.00 \$1,500.00 9 Tower bid document 1 \$1,000.00 \$1,000.00 10 Tower bid document 1 \$1,000.00 \$1,000.00 11 Cost to restake Tower prior to Construction 1 \$2,250.00 \$2,250.00 12 Construction: Foundation Inspection 1 \$2,375.00 \$2,375.00 13 Construction: Concrete testing (per site visit) 1 \$1,875.00 \$1,875.00 14 Post construction inspection 1 \$2,375.00 \$2,375.00 15 Construction: Searing Check 1 \$3,000.00 \$3,000.00 16 Construction: Searing Check 1 \$3,000.00 \$0.00<	4	,		\$2,750.00	\$0.00
5 Site Zoning and Construction Drawings (ZD's) 1 \$1,750.00 \$1,750.00 6 Detailed (DOI) Construction Drawings (CD's) \$3,750.00 \$0.00 7 FCC NEPA Checklist w/SHPO \$5,500.00 \$0.00 8 Tower Manufacturer Selection 1 \$1,500.00 \$1,500.00 9 Tower bid document 1 \$1,100.00 \$1,100.00 10 Tower bid review for up to 3 bids 1 \$1,000.00 \$1,000.00 11 Cost to restake Tower prior to Construction 1 \$2,250.00 \$2,250.00 12 Construction: Foundation Inspection 1 \$2,375.00 \$2,375.00 13 Construction: Concrete testing (per site visit) 1 \$1,875.00 \$1,875.00 14 Post construction inspection 1 \$2,500.00 \$2,375.00 15 Construction: Soil Compaction Testing \$3,000.00 \$3,000.00 16 Construction: Private Utility Locates 1 \$2,700.00 \$2,700.00 17 Construction: Private Utility Locates 1 \$2,000.00	4a		3		
FCC NEPA Checklist w/SHPO	5		1	\$1,750.00	
Tower Manufacturer Selection	6	Detailed (DOI) Construction Drawings (CD's)		\$3,750.00	\$0.00
Tower bid document	7	FCC NEPA Checklist w/SHPO		\$5,500.00	\$0.00
Tower bid review for up to 3 bids	8	Tower Manufacturer Selection	1		
11 Cost to restake Tower prior to Construction 1 \$2,250.00 \$2,250.00 12 Construction: Foundation Inspection 1 \$2,375.00 \$2,375.00 13 Construction: Concrete testing (per site visit) 1 \$1,875.00 \$1,875.00 14 Post construction inspection 1 \$2,500.00 \$2,500.00 15 Construction: Bearing Check 1 \$3,000.00 \$3,000.00 16 Construction: Soil Compaction Testing \$3,000.00 \$0.00 17 Construction: Private Utility Locates 1 \$2,700.00 \$2,700.00 18 Construction: Private Utility Locates 1 \$2,700.00 \$2,700.00 18 Construction: Lease Exhibit \$1,500.00 \$0.00 19 Structural Analysis \$1,500.00 \$0.00 20 Appurtenance Mapping \$2,450.00 \$0.00 21 Tower Mapping \$2,850.00 \$0.00 22 FCC Collocation NEPA \$3,500.00 \$0.00 23 Construction: Lease Exhibit \$2,750.00 \$0.00 24 Pre-mod mapping \$2,750.00 \$0.00 25 Modification: \$0.00 26 Modification design/drawings - standard \$3,500.00 \$0.00 27 Foundation mapping \$2,500.00 \$0.00 28 60' depth on SS, 4 soil bores up to 20' for guyed towers) \$0.00 \$0.00 29 Geo: addition of rock coring or deep foundation \$2,000.00 \$0.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00	9		1	\$1,100.00	\$1,100.00
12 Construction: Foundation Inspection 1 \$2,375.00 \$2,375.00 \$1,875.00 \$2,500.00 \$1,500.00 \$3,000.00 \$1,500.00 \$3,000.00 \$1,500.00 \$2,700.00 \$2,700.00 \$1,500.00 \$2,700.00 \$1,500.00 \$2,700.00 \$1,500.00 \$2,700.00 \$1,500.00 \$2,700.00 \$1,500.00 \$2,700.00 \$1,50	10	Tower bid review for up to 3 bids	1	\$1,000.00	\$1,000.00
13 Construction: Concrete testing (per site visit) 1 \$1,875.00 \$1,875.00 14 Post construction inspection 1 \$2,500.00 \$2,500.00 15 Construction: Bearing Check 1 \$3,000.00 \$3,000.00 16 Construction: Soil Compaction Testing \$3,000.00 \$0.00 17 Construction: Private Utility Locates 1 \$2,700.00 \$2,700.00 18 Construction: Lease Exhibit \$1,500.00 \$0.00 Collocation:	11	Cost to restake Tower prior to Construction	1	\$2,250.00	\$2,250.00
14 Post construction inspection 1 \$2,500.00 \$2,500.00 15 Construction: Bearing Check 1 \$3,000.00 \$3,000.00 16 Construction: Soil Compaction Testing \$3,000.00 \$0.00 17 Construction: Private Utility Locates 1 \$2,700.00 \$2,700.00 18 Construction: Lease Exhibit \$1,500.00 \$0.00 20 Apout Logare Manalysis \$1,500.00 \$0.00 20 Appurtenance Mapping \$2,450.00 \$0.00 21 Tower Mapping \$2,850.00 \$0.00 22 FCC Collocation NEPA \$3,500.00 \$0.00 23 30-Day Electrical Load Study with Data Loggers for SCO \$2,750.00 \$0.00 24 Pre-mod mapping \$2,500.00 \$0.00 25 Modification: \$3,500.00 \$0.00 26 Modification design/drawings - standard \$3,500.00 \$0.00 27 Foundation mapping \$3,500.00 \$0.00 28 60' depth on SS, 4 soil bores up to 20' for guyed towers)	12	Construction: Foundation Inspection	1	\$2,375.00	\$2,375.00
15 Construction: Bearing Check 1 \$3,000.00 \$3,000.00 16 Construction: Soil Compaction Testing \$3,000.00 \$0.00 17 Construction: Private Utility Locates 1 \$2,700.00 \$2,700.00 18 Construction: Lease Exhibit \$1,500.00 \$0.00 19 Structural Analysis \$1,500.00 \$0.00 20 Appurtenance Mapping \$2,450.00 \$0.00 21 Tower Mapping \$2,850.00 \$0.00 22 FCC Collocation NEPA \$3,500.00 \$0.00 23 30-Day Electrical Load Study with Data Loggers for SCO \$0.00 24 Pre-mod mapping \$2,750.00 \$0.00 25 Modification design/drawings - standard \$3,500.00 \$0.00 26 Modification design/drawings - extensive \$6,000.00 \$0.00 27 Foundation mapping \$3,500.00 \$0.00 28 60' depth on SS, 4 soil bores up to 20' for guyed towers) \$0.00 \$0.00 29 Geo: addition of rock coring or deep foundation \$2,000.00 \$0.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00	13	Construction: Concrete testing (per site visit)	1	\$1,875.00	\$1,875.00
16 Construction: Soil Compaction Testing \$3,000.00 \$0.00 17 Construction: Private Utility Locates 1 \$2,700.00 \$2,700.00 18 Construction: Lease Exhibit \$1,500.00 \$0.00	14	Post construction inspection	1	\$2,500.00	\$2,500.00
16 Construction: Soil Compaction Testing \$3,000.00 \$0.00 17 Construction: Private Utility Locates 1 \$2,700.00 \$2,700.00 18 Construction: Lease Exhibit \$1,500.00 \$0.00	15	Construction: Bearing Check	1	\$3,000.00	\$3,000.00
Structural Analysis \$1,500.00 \$0.00	16			\$3,000.00	\$0.00
18 Construction: Lease Exhibit \$1,500.00 \$0.00 \$38,050.00 \$38,050.00 \$38,050.00 \$38,050.00 \$38,050.00 \$38,050.00 \$38,050.00 \$0	17		1	\$2,700.00	\$2,700.00
Collocation: 19 Structural Analysis \$1,500.00 \$0.00 20 Appurtenance Mapping \$2,450.00 \$0.00 21 Tower Mapping \$2,850.00 \$0.00 22 FCC Collocation NEPA \$3,500.00 \$0.00 23 30-Day Electrical Load Study with Data Loggers for SCO \$2,750.00 \$0.00 Tower Modification SCO 24 Pre-mod mapping \$2,500.00 \$0.00 25 Modification design/drawings - standard \$3,500.00 \$0.00 26 Modification design/drawings - extensive \$6,000.00 \$0.00 27 Foundation mapping \$3,500.00 \$0.00 28 60' depth on SS, 4 soil bores up to 20' for guyed towers) \$4,500.00 \$0.00 29 Geo: addition of rock coring or deep foundation 1 \$2,000.00 \$2,000.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00	18			\$1,500.00	\$0.00
19 Structural Analysis \$1,500.00 \$0.00 20 Appurtenance Mapping \$2,450.00 \$0.00 21 Tower Mapping \$2,850.00 \$0.00 22 FCC Collocation NEPA \$3,500.00 \$0.00 23 30-Day Electrical Load Study with Data Loggers for SCO \$2,750.00 \$0.00 Tower Modification: 24 Pre-mod mapping \$2,500.00 \$0.00 25 Modification design/drawings - standard \$3,500.00 \$0.00 26 Modification design/drawings - extensive \$6,000.00 \$0.00 27 Foundation mapping \$3,500.00 \$0.00 28 60' depth on SS, 4 soil bores up to 20' for guyed towers) \$4,500.00 \$0.00 29 Geo: addition of rock coring or deep foundation 1 \$2,000.00 \$2,000.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00					\$38,050.00
20 Appurtenance Mapping \$2,450.00 \$0.00 21 Tower Mapping \$2,850.00 \$0.00 22 FCC Collocation NEPA \$3,500.00 \$0.00 23 30-Day Electrical Load Study with Data Loggers for SCO \$2,750.00 \$0.00 Tower Modification: 24 Pre-mod mapping \$2,500.00 \$0.00 25 Modification design/drawings - standard \$3,500.00 \$0.00 26 Modification design/drawings - extensive \$6,000.00 \$0.00 27 Foundation mapping \$3,500.00 \$0.00 28 60' depth on SS, 4 soil bores up to 20' for guyed towers) \$4,500.00 \$0.00 29 Geo: addition of rock coring or deep foundation 1 \$2,000.00 \$2,000.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00		Collocation:			
21 Tower Mapping \$2,850.00 \$0.00 22 FCC Collocation NEPA \$3,500.00 \$0.00 23 30-Day Electrical Load Study with Data Loggers for SCO \$0.00	19	Structural Analysis		\$1,500.00	\$0.00
Solution	20	Appurtenance Mapping		\$2,450.00	\$0.00
30-Day Electrical Load Study with Data	21	Tower Mapping		\$2,850.00	\$0.00
Second	22	FCC Collocation NEPA		\$3,500.00	\$0.00
Tower Modification: 24 Pre-mod mapping \$2,500.00 \$0.00 25 Modification design/drawings - standard \$3,500.00 \$0.00 26 Modification design/drawings - extensive \$6,000.00 \$0.00 27 Foundation mapping \$3,500.00 \$0.00 Geotechnical investigation (1 soil bore up to 60' depth on SS, 4 soil bores up to 20' for guyed towers) \$4,500.00 \$0.00 29 Geo: addition of rock coring or deep foundation 1 \$2,000.00 \$2,000.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00	23			\$2,750.00	\$0.00
24 Pre-mod mapping \$2,500.00 \$0.00 25 Modification design/drawings - standard \$3,500.00 \$0.00 26 Modification design/drawings - extensive \$6,000.00 \$0.00 27 Foundation mapping \$3,500.00 \$0.00 Geotechnical investigation (1 soil bore up to guyed towers) \$4,500.00 \$0.00 29 Geo: addition of rock coring or deep foundation \$2,000.00 \$2,000.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00					\$0.00
25 Modification design/drawings - standard \$3,500.00 \$0.00 26 Modification design/drawings - extensive \$6,000.00 \$0.00 27 Foundation mapping \$3,500.00 \$0.00 Geotechnical investigation (1 soil bore up to 20' for guyed towers) \$4,500.00 \$0.00 29 Geo: addition of rock coring or deep foundation 1 \$2,000.00 \$2,000.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00		Tower Modification:			
26 Modification design/drawings - extensive \$6,000.00 \$0.00 27 Foundation mapping \$3,500.00 \$0.00 Geotechnical investigation (1 soil bore up to 60' depth on SS, 4 soil bores up to 20' for guyed towers) \$4,500.00 \$0.00 29 Geo: addition of rock coring or deep foundation 1 \$2,000.00 \$2,000.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00	24				\$0.00
27 Foundation mapping \$3,500.00 \$0.00 Geotechnical investigation (1 soil bore up to 28 60' depth on SS, 4 soil bores up to 20' for guyed towers) \$4,500.00 \$0.00 29 Geo: addition of rock coring or deep foundation 1 \$2,000.00 \$2,000.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00	25	Modification design/drawings - standard		\$3,500.00	\$0.00
Geotechnical investigation (1 soil bore up to	26	Modification design/drawings - extensive		\$6,000.00	\$0.00
28 60' depth on SS, 4 soil bores up to 20' for guyed towers) \$4,500.00 \$0.00 29 Geo: addition of rock coring or deep foundation 1 \$2,000.00 \$2,000.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00	27			\$3,500.00	\$0.00
29 foundation 1 \$2,000.00 \$2,000.00 30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00	28	60' depth on SS, 4 soil bores up to 20' for		\$4,500.00	\$0.00
30 Foundation drawings \$2,000.00 \$0.00 31 Temporary loading letter \$600.00 \$0.00	29	Geo: addition of rock coring or deep	1	\$2,000.00	\$2,000.00
31 Temporary loading letter \$600.00 \$0.00	30			\$2,000.00	\$0.00
32 PIVII \$2,650.00 \$0.00	32	PMI		\$2,650.00	\$0.00

33	Foundation construction inspection	\$3,500.00	\$0.00
34	Cracked Foundation Mapping	\$3,500.00	\$0.00
35	Construction Materials Testing (CMT)	\$2.275.00	\$0.00
33	Foundation Inspection (existing foundation)	\$2,575.00	\$0.00
2.6	CWI Inspection (includes before, during, and	\$2,375.00	¢0.00
36	after inspections per AWS guidelines)	\$3,500.00	\$0.00
37	NDE Weld Inspection	\$1.850.00	\$0.00
38	Rebar Mapping		\$0.00
39	Partial Boundary Survey with Topography		\$0.00
40	1A Letter		\$0.00
40	TA LECTE	\$900.00	•
			\$2,000.00
-	Other tasks:	4	4
41	DHS EHP		\$0.00
42	DHS - EA/ESA		\$0.00
43	NEPA EA	\$3,250.00	\$0.00
44	Centerline Easement survey	\$5,500.00	\$0.00
45	Botantist site inspection and report on USFS	¢3 F00 00	¢0.00
45	land	\$3,500.00	\$0.00
	Wildlife biologist inspection and report on	4	
46	USFS land	\$3,500.00	\$0.00
47	Balloon Test	\$3,500,00	\$0.00
<u> </u>	Legal Description per State Property Office	φ3,300.00	φσ.σσ
48	Requirements	\$2,000.00	\$0.00
40		¢1 000 00	\$0.00
49	Ownership Right of Access to Site		•
50	Site Candidate Information Package (SCIP)	\$3,500.00	\$0.00
51	Construction Monitoring at USFS sites (daily	\$1,250,00	\$0.00
	rate)	Ψ1,230.00	φσ.σσ
52	Public Notice	\$900.00	\$0.00
	T : D :	¢2.000.00	¢0.00
53	Tribal Reimbursement Fee (TCNS) - standard	\$3,000.00	\$0.00
54	Tribal Reimbursement Fee (TCNS) - moderate	\$8,000.00	\$0.00
55	Tribal Reimbursement Fee (TCNS) - extensive	\$14,000.00	\$0.00
F.6	Class IV Bigging Plan standard	\$1,500,00	\$0.00
56	Class IV Rigging Plan - standard		\$0.00
57	Class IV Rigging Plan - extensive		\$0.00
58	TIA Maintenance Drawings		\$0.00
59	EOR Review		\$0.00
60	Mount Analysis		\$0.00
61	Platform Design Drawings	\$2,500.00	\$0.00
62	Retaining Wall Design Drawings height less	\$4,000,00	\$0.00
02	than 10-ft	۶ 4 ,000.00	JU.UU
C 2	Retaining Wall Design Drawings height	ć7 F00 00	¢0.00
63	greater than 10-ft, but less than 25-ft	\$7,500.00	\$0.00
64	Stormwater Control Measure Inspection	\$1,375.00	\$0.00
65	Special Use Permit - site plan		\$0.00
	Special Use Permit - (1) staff member in		
66	attendance at 1 meeting	\$1,250.00	\$0.00
	atternative at 1 meeting		\$0.00
	Mobilization		- 70.00
67	East Zone	¢600.00	ć0.00
67			\$0.00
68	Central Zone		\$0.00
69	West Zone	\$850.00	\$0.00

			\$0.00
	TIA Inspection - Self-supporting tower		
70	0' - 250'	\$1,900.00	\$0.00
71	250' - 500'	\$2,150.00	\$0.00
72	501' and above	\$2,400.00	\$0.00
			\$0.00
	TIA Inspection - Guyed tower		
73	0' - 300'	\$1,900.00	\$0.00
74	301' - 600'	\$2,150.00	\$0.00
75	601' - 1,000'	\$3,250.00	\$0.00
			\$0.00
	Guyed tower re-tensioning & re-plumbing		
76	0' - 300'	\$3,750.00	\$0.00
77	301' - 600'	\$4,750.00	\$0.00
78	601' - 1,000'	\$7,750.00	\$0.00
			\$0.00
		Total Cost	\$40,050.00

	Summary Cost (Do Not input data)											
	Total M	laterials	Total L	abor	Total Job Cost							
East	\$	-	\$	-	\$	-						
Central	\$	-	\$	-	\$	-						
West	\$	212,791.25	\$	294,819.00	\$	507,610.25						
Totals	\$	212,791.25	\$	294,819.00	\$	507,610.25						

	Civ	vil Contract Item	ized Quote				
Site(s)	Name:		•				
	Contract costs - Eas	t site (fill in yell	ow highlighted	d boxes ONLY)			
		Qty. Material	Material	Total Material	Qty. Labor	Labor	Total Labor
11	Cost to apply for and obtain a building permit from the local jurisdiction (please include the Fee in your Labor cost).	N/A	N/A	N/A		\$ 500.00	\$ -
12	Cost per tree removal and disposal based on a tree with a 3' diameter. This work is not part of the SOW in the "Complete Site Installation" and "Land Clearing for 20' access road".		\$ 1,800.00	\$ -		\$ 450.00	\$ -
13	Cost per linear foot to supply and install a 7ft compound fence or 6ft fence with 2ft barbed wire. The fencing shall be of adequate grade to allow exothermic bonding (cad weld) of a ground conductor to the fence post.		\$ 45.00	\$ -		\$ 13.50	\$ -
14	Cost to supply and install 16-ft double gate. The gate shall be of adequate grade to allow exothermic bonding (cad weld) of a ground conductor to the gate.		\$ 2,250.00	\$ -		\$ 1,350.00	\$ -
15	Cost to supply and install 8' copper ground rod and 16' of #2 tinned solid conductor.		\$ 100.80	\$ -		\$ 18.00	\$ -
16	Cost to supply and install 10' horizontal chemically enhanced grounding rod system (per chem rod).		\$ 2,250.00	\$ -		\$ 450.00	\$ -
17	Cost per square foot to supply and install Geo Tech fabric for work outside the "Complete Site Installation" Scope listed above.		\$ 0.31	\$ -		\$ 0.09	\$ -
18	Cost per ton to supply and install #57 stone for work outside the "Complete Site Installation" Scope listed above.		\$ 50.40	\$ -		\$ 18.00	\$ -
19	Cost per ton to supply and install crush and run for work outside the "Complete Site Installation" Scope listed above.		\$ 50.40	\$ -		\$ 18.00	\$ -
20	Cost per ton to supply and install riprap for work outside the "Complete Site Installation" Scope listed above		\$ 50.40	\$ -		\$ 18.00	\$ -
21	Cost per square yard to supply and install seed and straw outside compound where required.		\$ 1.27	\$ -		\$ 0.18	\$ -
22	Cost per cubic yard to supply and install additional fill needed for backfill and site grading.		\$ 27.00	\$ -		\$ 18.00	\$ -
23	Cost per foot to supply and install of silt fencing (wire mesh & metal posts).		\$ 1.04	\$ -		\$ 1.13	\$ -
24	Cost per foot to supply and install silt fencing (fabric & wooden post).		\$ 0.95	\$ -		\$ 1.13	\$ -

Cost to supply and install COPS connector and three pole double throw switch on buildings without COPS connector. 2 Recoptacle shall be an Appleton PIN ADJA20044-250. Cost to supply and plant 1 landscape greenery (this could be anything from a shrub, bush, free, det. in any size). Cost to supply and install gravel for a 25' x 40' turnaround area outside fence gate on existing or expanding site for work or outside the "Complete Stein Installation" Scope listed above. Cost to have a licensed HVAC mechanic replace existing wall mounted WA series Bard HVAC with same series Bard supplied by owner; cost includes any materials/supplies and laborated with series and HVAC with same series Bard supplied by owner; cost includes any materials/supplies and supplied by owner; cost incl										
26 anything from a shrub, bush, tree, etc. in any size). S 18.00 S - S 9.00 S -	25	double throw switch on buildings without COPS connector.		\$	2,700.00	\$ -		\$ 1,350.00	\$	-
area outside fence gate on existing or expanding site for work 27 outside the "Complete Site Installation" Scope listed above. Cost to have a licensed HVAC mechanic replace existing wall mounted WA series Bard HVAC with same series Bard supplied by owner; cost includes any materials/supplies and labor for the job. 29 Cost to replace a 40kW generator at an existing site per SOW Cost to replace a 100kW generator on an existing site per SOW Cost to replace a 100kW generator on an existing site per SOW Cost to replace a 100kW generator on an existing site per SOW Cost to replace a 100kW generator per SOW SOW Cost to replace a transfer switch for a 40kW generator per SOW SOW Cost to replace a transfer switch for a 40kW generator per SOW SOW SOW SOW SOW SOW SOW SOW	26			\$	18.00	\$ -		\$ 9.00	\$	-
mounted WA series Bard HVAC with same series Bard supplied by owner; cost includes any materials/supplies and labor for the job. 28 labor for the job. 29 Cost to replace a 40kW generator at an existing site per SOW Cost to replace a 100kW generator on an existing site per SOW SOW S 2,250.00 \$ - \$ \$ 2,700.00 \$ - \$ 2,700.00 \$ -	27	area outside fence gate on existing or expanding site for work		\$	1,485.00	\$ -		\$ 540.00	\$	ı
Cost to replace a 100kW generator on an existing site per S 2,250.00 \$ - \$ \$ 2,700.00 \$ - \$ 2,700.00 \$	28	mounted WA series Bard HVAC with same series Bard supplied by owner; cost includes any materials/supplies and		\$	200.00	\$ -		\$ 500.00	\$	-
SOW	29	Cost to replace a 40kW generator at an existing site per SOW		\$	2,250.00	\$ -		\$ 2,700.00	\$	-
SOW	30			\$	2,250.00	\$ -		\$ 2,700.00	\$	-
\$ 450.00 \$ -	31			\$	450.00	\$ -		\$ 1,350.00	\$	-
34 Cost per day for a CAT D6 (or equivelant) bulldozer \$ 1,000.00 \$ - \$ \$ 215.00 \$ - \$ 35 Cost per day for an 8,000 pound skidsteer \$ 200.00 \$ - \$ 79.00 \$ - \$ 36 Cost per day for 10,000 pound Lull (or equivelant) \$ 300.00 \$ - \$ 60.00 \$ - \$ 37 Cost per day for an 8,000 pound excavator \$ 300.00 \$ - \$ 60.00 \$ 60	32			\$	450.00	\$ -		\$ 1,575.00	\$	-
35 Cost per day for an 8,000 pound skidsteer \$ 200.00 \$ - \$ 79.00 \$ - 36 Cost per day for 10,000 pound Lull (or equivelant) \$ 300.00 \$ - \$ 60.00 \$ - 37 Cost per day for an 8,000 pound excavator \$ 300.00 \$ - \$ 60.00 \$ - \$ 5	33	Cost per day for a 120 ton crane		\$	6,000.00	\$ -		\$ 750.00	\$	-
36 Cost per day for 10,000 pound Lull (or equivelant) 37 Cost per day for an 8,000 pound excavator Soptional Tasks Totals Cost per 20' access road Qty. Material Material Material Moderate land clearing (medium brush and trees up to 12" trunk diameter), cut/fill, and/or poor soil: Cost per square foot to clear. Extensive land clearing (clear heavily wooded area and pull stumps), cut/fill, and steep grade, e.g. mountain site access: 40 Cost per day for 10,000 pound Lull (or equivelant) \$ 300.00 \$ - \$ \$ 60.00 \$ - \$ \$ \$ 60.00 \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	34	Cost per day for a CAT D6 (or equivelant) bulldozer		\$	1,000.00	\$ -		\$ 215.00	\$	-
37 Cost per day for an 8,000 pound excavator Optional Tasks Totals Qty. Material Material Otal Material Oty. Labor Total Labor Total Labor Moderate land clearing (medium brush and trees up to 12" trunk diameter), cut/fill, and/or poor soil: Cost per square foot to 29 clear. Extensive land clearing (clear heavily wooded area and pull stumps), cut/fill, and steep grade, e.g. mountain site access: 40 Cost per square foot to clear. \$ 300.00 \$ - \$ \$ 60.00 \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	35	Cost per day for an 8,000 pound skidsteer		\$	200.00	\$ -		\$ 79.00	\$	-
Cost per square foot to clear. States Stat	36	Cost per day for 10,000 pound Lull (or equivelant)		\$	300.00	\$ -		\$ 60.00	\$	-
Land Clearing for 20' access road Cost per square foot to clear. Cost per square foot to clear	37	Cost per day for an 8,000 pound excavator		\$	300.00	\$ -		\$ 60.00	\$	-
Minimal land clearing (grub roots, light brush, small trees up to 6" trunk diameter), cut/fill, and normal soil: Cost per square foot to clear. Moderate land clearing (medium brush and trees up to 12" trunk diameter), cut/fill, and/or poor soil: Cost per square foot to clear. Shape of the province o		Optional Tasks Totals				\$ -			\$	-
Minimal land clearing (grub roots, light brush, small trees up to 6" trunk diameter), cut/fill, and normal soil: Cost per square foot to clear. Moderate land clearing (medium brush and trees up to 12" trunk diameter), cut/fill, and/or poor soil: Cost per square foot to clear. Extensive land clearing (clear heavily wooded area and pull stumps), cut/fill, and steep grade, e.g. mountain site access: 40 Cost per square foot to clear. \$ 1.30 \$ - \$ 1.00 \$ -	Land (Clearing for 20' access road								
6" trunk diameter), cut/fill, and normal soil: Cost per square foot to clear. Moderate land clearing (medium brush and trees up to 12" trunk diameter), cut/fill, and/or poor soil: Cost per square foot to \$ 1.30 \$ - \$ 1.00 \$ 1.00 \$ - \$ 1.00 \$ - \$ 1.00 \$ - \$ 1.00 \$ - \$ 1.00 \$ - \$ 1.00 \$ - \$ 1.00 \$ - \$ 1.00 \$ - \$ 1.00 \$ - \$ 1.00 \$ - \$ 1.00 \$ - \$ 1.00 \$			Qty. Material	1	Material	Total Material	Qty. Labor	Labor	To	tal Labor
Moderate land clearing (medium brush and trees up to 12" trunk diameter), cut/fill, and/or poor soil: Cost per square foot to clear. \$ 1.30 \$ - \$ 1.00 \$ - Extensive land clearing (clear heavily wooded area and pull stumps), cut/fill, and steep grade, e.g. mountain site access: \$ 1.30 \$ - \$ 1.00 \$ -	38	6" trunk diameter), cut/fill, and normal soil: Cost per square foot		\$	1.30	\$ -		\$ 1.00	\$	ı
Extensive land clearing (clear heavily wooded area and pull stumps), cut/fill, and steep grade, e.g. mountain site access: 40 Cost per square foot to clear. \$ 1.30 \$ - \$ 1.00 \$ -	39	trunk diameter), cut/fill, and/or poor soil: Cost per square foot to								-
	40	stumps), cut/fill, and steep grade, e.g. mountain site access:				·				-
Access Road Totals		Access Road Totals				\$ -			\$	-

	ts and Site Drainage - Cost to provide and install HDPE doub material and installation shall be priced using appropriate lin		ed p	ipe with sm	nooth interior wa	II. Inlet/Outlet	prot	ection		
Stolle	material and installation shall be priced using appropriate in	Qty. Material	l	Material	Total Material	Qty. Labor		Labor	Tota	al Labor
41	Cost per 20' section to supply and install 4" culvert.	•	\$	112.50	\$ -	. ,	\$	180.00	\$	-
42	Cost per 20' section to supply and install 6" culvert.		\$	193.50	\$ -		\$	180.00	\$	-
43	Cost per 20' section to supply and install 8" culvert.		\$	364.50	\$ -		\$	180.00	\$	-
44	Cost per 20' section to supply and install 10" culvert.		\$	481.50	\$ -		\$	225.00	\$	-
45	Cost per 20' section to supply and install 12" culvert.		\$	463.50	\$ -		\$	225.00	\$	-
46	Cost per 20' section to supply and install 15" culvert.		\$	621.00	\$ -		\$	270.00	\$	-
47	Cost per 20' section to supply and install 24" culvert.		\$	874.80	\$ -		\$	315.00	\$	-
48	Cost per 20' section to supply and install 30" culvert.		\$	1,503.00	\$ -		\$	450.00	\$	-
49	Cost per 20' section to supply and install 36" culvert.		\$	1,471.50	\$ -		\$	540.00	\$	-
	Culverts/Site Drainage Totals				\$ -				\$	-
Under	ground Conduit									
		Qty. Material		Material	Total Material	Qty. Labor		Labor	Tota	al Labor
50	Cost per linear foot to supply and install 1.5" SCH 40 underground conduit.		\$	12.60	\$ -		\$	7.20	\$	_
51	Cost per linear foot to supply and install 2" SCH 40 underground conduit.		\$	12.60	\$ -		\$	7.20	\$	-
52	Cost per linear foot to supply and install 3" SCH 40 underground conduit.		\$	12.60	\$ -		\$	7.20	\$	-
53	Cost per linear foot to supply and install 4" SCH 40 underground conduit.		\$	14.85	\$ -		\$	7.20	\$	_
	Underground Conduit Totals:				\$ -				\$	-
Mobili	zation Cost									
						Qty. Labor		Labor	Tota	al Labor
54	Mobilization cost for a 2-man crew for 1/2 day rate						\$	1,068.75	\$	-
55	Mobilization cost for a 2-man crew for FULL day rate						\$	2,137.50	\$	-
56	Mobilization cost for a 4-man crew for 1/2 day rate								\$	-
57	Mobilization cost for a 4-man crew for Full day rate				\$	4,275.00	\$	-		
	Mobilization Totals:	: N/A						\$		
	Total Job Materials cost	\$								-
	Total Job Labor cost	\$								-

		Civil Contract Ite	mized Quote				
Site(s	Name:		-				
	Contract costs - Cer		yellow highligh	ted boxes ONLY			
		Qty. Material	Material	Total Material	Qty. Labor	Labor	Total Labor
11	Cost to apply for and obtain a building permit from the local jurisdiction (please include the Fee in your Labor cost).	N/A	N/A	N/A		\$ 500.00	\$ -
12	Cost per tree removal and disposal based on a tree with a 3' diameter. This work is not part of the SOW in the "Complete Site Installation" and "Land Clearing for 20' access road".		\$ 1,800.00	\$ -		\$ 450.00	\$ -
13	Cost per linear foot to supply and install a 7ft compound fence or 6ft fence with 2ft barbed wire. The fencing shall be of adequate grade to allow exothermic bonding (cad weld) of a ground conductor to the fence post.		\$ 45.00	\$ -		\$ 13.50	\$ -
14	Cost to supply and install 16-ft double gate. The gate shall be of adequate grade to allow exothermic bonding (cad weld) of a ground conductor to the gate.		\$ 2,250.00	\$ -		\$ 1,350.00	\$ -
15	Cost to supply and install 8' copper ground rod and 16' of #2 tinned solid conductor.		\$ 100.80	\$ -		\$ 18.00	\$ -
16	Cost to supply and install 10' horizontal chemically enhanced grounding rod system (per chem rod).		\$ 2,250.00	\$ -		\$ 450.00	\$ -
17	Cost per square foot to supply and install Geo Tech fabric for work outside the "Complete Site Installation" Scope listed above.		\$ 0.31	\$ -		\$ 0.09	\$ -
18	Cost per ton to supply and install #57 stone for work outside the "Complete Site Installation" Scope listed above.		\$ 50.40	\$ -		\$ 18.00	\$ -
19	Cost per ton to supply and install crush and run for work outside the "Complete Site Installation" Scope listed above.		\$ 50.40	\$ -		\$ 18.00	\$ -
20	Cost per ton to supply and install riprap for work outside the "Complete Site Installation" Scope listed above		\$ 50.40	\$ -		\$ 18.00	\$ -
21	Cost per square yard to supply and install seed and straw outside compound where required.		\$ 1.27	\$ -		\$ 0.18	\$ -
22	Cost per cubic yard to supply and install additional fill needed for backfill and site grading.		\$ 27.00	\$ -		\$ 18.00	\$ -
23	Cost per foot to supply and install of silt fencing (wire mesh & metal posts).		\$ 1.04	\$ -		\$ 1.13	\$ -
24	Cost per foot to supply and install silt fencing (fabric & wooden post).		\$ 0.95	\$ -		\$ 1.13	\$ -

	Cost to supply and install COPS connector and three pole double throw switch on buildings without COPS connector. Receptacle shall be an Appleton PN ADJA20044-250.		\$	2,700.00	\$ -		\$	1,350.00	\$	_
26	Cost to supply and plant 1 landscape greenery (this could be anything from a shrub, bush, tree, etc. in any size).		\$	18.00	\$ -		\$	9.00	\$	-
27	Cost to supply and install gravel for a 25' x 40' turnaround area outside fence gate on existing or expanding site for work outside the "Complete Site Installation" Scope listed above.		\$	1,485.00	\$ -		\$	540.00	\$	-
28	Cost to have a licensed HVAC mechanic replace existing wall mounted WA series Bard HVAC with same series Bard supplied by owner; cost includes any materials/supplies and labor for the job.		\$	200.00	\$ -		\$	500.00	\$	1
29	Cost to replace a 40kW generator at an existing site per SOW		\$	2,250.00	\$ -		\$	2,700.00	\$	-
30	Cost to replace a 100kW generator on an existing site per SOW		\$	2,250.00	\$ -		\$	2,700.00	\$	-
31	Cost to replace a transfer switch for a 40kW generator per SOW		\$	450.00	\$ -		\$	1,350.00	\$	-
32	Cost to replace a transfer switch for a 100kW generator per SOW		\$	450.00	\$ -		\$	1,575.00	\$	-
33	Cost per day for a 120 ton crane		\$	6,000.00	\$ -		\$	750.00	\$	-
34	Cost per day for a CAT D6 (or equivelant) bulldozer		\$	1,000.00	\$ -		\$	215.00	\$	-
35	Cost per day for an 8,000 pound skidsteer		\$	200.00	\$ -		\$	79.00	\$	-
36	Cost per day for 10,000 pound Lull (or equivelant)		\$	300.00	\$ -		\$	60.00	\$	-
37	Cost per day for an 8,000 pound excavator		\$	300.00	\$ -		\$	60.00	\$	-
	Optional Tasks Totals				\$ -				\$	-
Land (Clearing for 20' access road									
		Qty. Material		Material	Total Materia	l Qty. Labor		Labor	Tota	ıl Labor
	Minimal land clearing (grub roots, light brush, small trees up to 6" trunk diameter), cut/fill, and normal soil: Cost per square foot to clear.		\$	1.30	\$ -		\$	1.00	\$	-
	Moderate land clearing (medium brush and trees up to 12" trunk diameter), cut/fill, and/or poor soil: Cost per square foot to clear.		\$	1.30	\$ -		\$	1.00	\$	-
40	Extensive land clearing (clear heavily wooded area and pull stumps), cut/fill, and steep grade, e.g. mountain site access: Cost per square foot to clear.		\$	1.30	\$ -		\$	1.00	\$	-
	Access Road Totals			_	\$ -			_	\$	-
Ь			1		т		1		T	

	rts and Site Drainage - Cost to provide and install HDPE doubation shall be priced using appropriate lines above.	le wall corrugate	ed pi	pe with smo	ooth interior wall.	. Inlet/Outlet pro	tecti	on stone m	aterial	and
motan	ation shall be priced using appropriate lines above.	Qty. Material	ı	Material	Total Material	Qty. Labor	Π	Labor	Tota	al Labor
41	Cost per 20' section to supply and install 4" culvert.	•	\$	112.50	\$ -		\$	180.00	\$	-
42	Cost per 20' section to supply and install 6" culvert.		\$	193.50	\$ -		\$	180.00	\$	_
43	Cost per 20' section to supply and install 8" culvert.		\$	364.50	\$ -		\$	180.00	\$	_
44	Cost per 20' section to supply and install 10" culvert.		\$	481.50	\$ -		\$	225.00	\$	-
45	Cost per 20' section to supply and install 12" culvert.		\$	463.50	\$ -		\$	225.00	\$	-
46	Cost per 20' section to supply and install 15" culvert.		\$	621.00	\$ -		\$	270.00	\$	-
47	Cost per 20' section to supply and install 24" culvert.		\$	874.80	\$ -		\$	315.00	\$	-
48	Cost per 20' section to supply and install 30" culvert.		\$	1,503.00	\$ -		\$	450.00	\$	-
49	Cost per 20' section to supply and install 36" culvert.		\$	1,471.50	\$ -		\$	540.00	\$	-
	Culverts/Site Drainage Totals				\$ -				\$	-
Underground Conduit										
		Qty. Material	Ī	Material	Total Material	Qty. Labor		Labor	Tota	al Labor
50	Cost per linear foot to supply and install 1.5" SCH 40 underground conduit.		\$	12.60	\$ -		\$	7.20	\$	_
51	Cost per linear foot to supply and install 2" SCH 40 underground conduit.		\$	12.60	\$ -		\$	7.20	\$	-
52	Cost per linear foot to supply and install 3" SCH 40 underground conduit.		\$	12.60	\$ -		\$	7.20	\$	-
53	Cost per linear foot to supply and install 4" SCH 40 underground conduit.		\$	14.85	\$ -		\$	7.20	\$	-
	Underground Conduit Totals:				\$ -				\$	-
Mobili	zation Cost									
						Qty. Labor		Labor	Tota	al Labor
54	Mobilization cost for a 2-man crew for 1/2 day rate						\$	1,068.75	\$	
55	Mobilization cost for a 2-man crew for FULL day rate	\$ 2,137.50 \$ -						-		
56	Mobilization cost for a 4-man crew for 1/2 day rate	\$ 2,137.50 \$ -								
57	Mobilization cost for a 4-man crew for Full day rate	\$ 4,275.00 \$ -								
	Mobilization Totals:			N/A					\$	-
	Total Job Materials cost	\$								-
	Total Job Labor cost	\$								-

Total \$

	Civil Contract Itemized Quote										
Site(s	Site(s) Name: Rich Mountain										
	Contract costs - West site (fill in yellow highlighted boxes ONLY)										
		Qty. Material		Material	To	otal Material	Qty. Labor		Labor	T	otal Labor
11	Cost to apply for and obtain a building permit from the local jurisdiction (please include the Fee in your Labor cost).	N/A		N/A		N/A	6	\$	500.00	\$	3,000.00
12	Cost per tree removal and disposal based on a tree with a 3' diameter. This work is not part of the SOW in the "Complete Site Installation" and "Land Clearing for 20' access road".	10	\$	2,070.00	\$	20,700.00	10	\$	517.50	\$	5,175.00
13	Cost per linear foot to supply and install a 7ft compound fence or 6ft fence with 2ft barbed wire. The fencing shall be of adequate grade to allow exothermic bonding (cad weld) of a ground conductor to the fence post.	300	\$	51.75	\$	15,525.00	300	\$	15.52	\$	4,656.00
14	Cost to supply and install 16-ft double gate. The gate shall be of adequate grade to allow exothermic bonding (cad weld) of a ground conductor to the gate.	2	\$	2,588.00	\$	5,176.00	2	\$	1,552.00	\$	3,104.00
15	Cost to supply and install 8' copper ground rod and 16' of #2 tinned solid conductor.	50	\$	100.80	\$	5,040.00	50	\$	18.00	\$	900.00
16	Cost to supply and install 10' horizontal chemically enhanced grounding rod system (per chem rod).	20	\$	2,250.00	\$	45,000.00	20	\$	450.00	\$	9,000.00
17	Cost per square foot to supply and install Geo Tech fabric for work outside the "Complete Site Installation" Scope listed above.	6,250	\$	0.31	\$	1,937.50	6,250	\$	0.09	\$	562.50
18	Cost per ton to supply and install #57 stone for work outside the "Complete Site Installation" Scope listed above.	230	\$	50.40	\$	11,592.00	230	\$	18.00	\$	4,140.00
19	Cost per ton to supply and install crush and run for work outside the "Complete Site Installation" Scope listed above.	500	\$	50.40	\$	25,200.00	500	\$	18.00	\$	9,000.00
20	Cost per ton to supply and install riprap for work outside the "Complete Site Installation" Scope listed above	250	\$	50.40	\$	12,600.00	250	\$	18.00	\$	4,500.00
21	Cost per square yard to supply and install seed and straw outside compound where required.	225	\$	1.27	\$	285.75	225	\$	0.18	\$	40.50
22	Cost per cubic yard to supply and install additional fill needed for backfill and site grading.	250	\$	31.50	\$	7,875.00	250	\$	18.00	\$	4,500.00
23	Cost per foot to supply and install of silt fencing (wire mesh & metal posts).	300	\$	1.04	\$	312.00	300	\$	1.13	\$	339.00
24	Cost per foot to supply and install silt fencing (fabric & wooden post).		\$	0.95	\$	-		\$	1.13	\$	-

					_				_	
25	Cost to supply and install COPS connector and three pole double throw switch on buildings without COPS connector. Receptacle shall be an Appleton PN ADJA20044-250.		\$	2,700.00	\$	-		\$ 1,350.00	\$	-
26	Cost to supply and plant 1 landscape greenery (this could be anything from a shrub, bush, tree, etc. in any size).		\$	18.00	\$	-		\$ 9.00	\$	-
27	Cost to supply and install gravel for a 25' x 40' turnaround area outside fence gate on existing or expanding site for work outside the "Complete Site Installation" Scope listed above.	1	\$	1,710.00		1,710.00	1	\$ 621.00	\$	621.00
28	Cost to have a licensed HVAC mechanic replace existing wall mounted WA series Bard HVAC with same series Bard supplied by owner; cost includes any materials/supplies and labor for the job.		\$	200.00	\$	ı		\$ 500.00	\$	-
29	Cost to replace a 40kW generator at an existing site per SOW	1	\$	2,250.00	\$	2,250.00	1	\$ 2,700.00	\$	2,700.00
30	Cost to replace a 100kW generator on an existing site per SOW		\$	2,250.00	\$	-		\$ 2,700.00	\$	-
31	Cost to replace a transfer switch for a 40kW generator per SOW	1	\$	450.00	\$	450.00	1	\$ 1,350.00	\$	1,350.00
32	Cost to replace a transfer switch for a 100kW generator per SOW		\$	450.00	\$	-		\$ 1,575.00	\$	-
33	Cost per day for a 120 ton crane		\$	6,000.00	\$	-		\$ 750.00	\$	-
34	Cost per day for a CAT D6 (or equivelant) bulldozer	16	\$	1,000.00	\$	16,000.00	16	\$ 215.00	\$	3,440.00
35	Cost per day for an 8,000 pound skidsteer		т —	200.00	\$	9,000.00	45	\$ 79.00	\$	3,555.00
36	Cost per day for 10,000 pound Lull (or equivelant)	30	\$	300.00	\$	9,000.00	30	\$ 60.00	\$	1,800.00
37	Cost per day for an 8,000 pound excavator	30	\$	300.00	\$	9,000.00	30	\$ 60.00	\$	1,800.00
	Optional Tasks Totals				\$	198,653.25			\$	64,183.00
Land (Clearing for 20' access road									
		Qty. Material		Material	To	otal Material	Qty. Labor	Labor	Т	otal Labor
38	Minimal land clearing (grub roots, light brush, small trees up to 6" trunk diameter), cut/fill, and normal soil: Cost per square foot to clear.		\$	1.30	\$	-		\$ 1.00	\$	-
39	Moderate land clearing (medium brush and trees up to 12" trunk diameter), cut/fill, and/or poor soil: Cost per square foot to clear.		\$	1.30	\$	-		\$ 1.00	\$	-
40	Extensive land clearing (clear heavily wooded area and pull stumps), cut/fill, and steep grade, e.g. mountain site access: Cost per square foot to clear.	2000	\$	1.30		2,600.00	2000	1.00	\$	2,000.00
	Access Road Totals				\$	2,600.00			\$	2,000.00
					Ψ.	_,				_,

	ts and Site Drainage - Cost to provide and install HDPE doub ation shall be priced using appropriate lines above.	ole wall corrugate	d pi	pe with smo	oth	interior wall	. Inlet/Outlet pr	ote	ction stone m	ate	rial and
		Qty. Material		Material	To	otal Material	Qty. Labor		Labor	7	otal Labor
41	Cost per 20' section to supply and install 4" culvert.		\$	112.50	\$	-		\$	180.00	\$	-
42	Cost per 20' section to supply and install 6" culvert.		\$	193.50	\$	-		\$	180.00	\$	-
43	Cost per 20' section to supply and install 8" culvert.		\$	364.50	\$	-		\$	180.00	\$	-
44	Cost per 20' section to supply and install 10" culvert.		\$	481.50	\$	-		\$	225.00	\$	-
45	Cost per 20' section to supply and install 12" culvert.		\$	463.50	\$	-		\$	225.00	\$	-
46	Cost per 20' section to supply and install 15" culvert.		\$	621.00	\$	-		\$	270.00	\$	-
47	Cost per 20' section to supply and install 24" culvert.		\$	874.80	\$	-		\$	315.00	\$	-
48	Cost per 20' section to supply and install 30" culvert.		\$	1,503.00	\$	-		\$	450.00	\$	-
49	Cost per 20' section to supply and install 36" culvert.		\$	1,471.50	\$	-		\$	540.00	\$	-
	Culverts/Site Drainage Totals				\$	-				\$	-
Under	ground Conduit				•						
		Qty. Material		Material	To	otal Material	Qty. Labor		Labor	7	otal Labor
	Cost per linear foot to supply and install 1.5" SCH 40										
50	underground conduit.	200	\$	12.60	\$	2,520.00	200	\$	7.20	\$	1,440.00
	Cost per linear foot to supply and install 2" SCH 40										
51	underground conduit.	280	\$	12.60	\$	3,528.00	280	\$	7.20	\$	2,016.00
	Cost per linear foot to supply and install 3" SCH 40	000					000				
52	underground conduit.	200	Ş	12.60	Ş	2,520.00	200	Ş	7.20	\$	1,440.00
	Cost per linear foot to supply and install 4" SCH 40 underground conduit.	200	بر ا	44.05	ـ ا	2 070 00	200	٠	7.20	۲.	4 440 00
53	Underground Conduit Totals:	200	Ş	14.85	_	2,970.00	200	Ş	7.20	\$	1,440.00
Mabili	zation Cost				\$	11,538.00				\$	6,336.00
MODIII	zation Cost					1	Oty Labor	T	Labor	_	otal Labor
54	Mobilization cost for a 2-man crew for 1/2 day rate						Qty. Labor	\$	1,068.75		Otal Labor
55	Mobilization cost for a 2-man crew for FULL day rate						4	<u> </u>	,	_	
56	Mobilization cost for a 4-man crew for 1/2 day rate						4	\$	2,137.50	\$	8,550.00
	Mobilization cost for a 4-man crew for Full day rate						50	\$	2,137.50	\$	- 242 750 00
57	Mobilization Totals:			NI/A			50	\$	4,275.00	\$	213,750.00
	MODILIZATION TOTALS:			N/A						\$	222,300.00
	Tatal lab 84-t-::-lt	ć									212 701 25
	Total Job Materials cost	•									212,791.25
	Total Job Labor cost	\$									294,819.00

AGENDA ITEM 8:

EMERGENCY SERVICES MATTERS:

B. Hurricane Helene Update

MANAGER'S COMMENTS:

Mr. Will Holt, Emergency Services Director, will provide the Board with a Hurricane Helene update. The report is for information only; therefore, no action is required at this time.



Watauga County Emergency Services

184 Hodges Gap Rd, Suite D Boone, NC 28607 Phone 828-264-4235 Fax 828-265-7617



Fire Marshal ♦ Emergency Management ♦ Communications

March 26th, 2024

To: Board of Commissioners

CC: Deron Geouque, County Manager Anita Fogle, Clerk to the Board

Subject: Helene Update

Board of Commissioners,

I would like to offer a brief update on the status of recovery in Watauga County from the Emergency Services perspective. Before going any further, I would like to personally express my deep gratitude to the multitude of individuals and organizations that have stepped up to lead the way in various aspects of recovery including rebuilding of our citizen's personal property and businesses. A few key points:

- County staff continue to work with our insurance provider on coverage limits and settlements.
 We have started to receive determination letters and coverage approvals for several properties with clarification requested on some projects.
- Right-of-Way debris removal continues and new debris placement ended March 2nd. An extension has been discussed for the ROW process due to the contractor needing more time to remove what is existing in the ROW now.
- Waterway and private property debris removal operations with the Corps of Engineers (USACE)
 has been approved and have begun. Aerostar and TetraTech are leading the intake process, Right
 of Entry acquisition, and site assessments for the Private Property Debris Removal (PPDR)
 program. Bering Strait is the prime contractor for the actual debris removal work.
- Staff completed over 600 assessments on waterways to give multiple State and federal partners access to raw data to determine eligibility for Category A (USACE debris removal), EWP, or other potential programs being discussed. At time of this report, a total of 412 sites have been approved by FEMA. We appreciate the incredible work of our Soil and Water staff and those who partnered with them in this process.
- The OSBM/NCEM Private Road and Bridge program has been partially funded through HB47. This program is designed to duplicate the success seen in the southwest part of the State during the 2022 TS Fred floods, however continued funding will be critical to long term success.
- Hagerty Consulting is on the ground and working with staff to complete PA projects
- As a point of success, DSA and he DRC teams have largely completed their work in Watauga County but will have staff available for any issues that arise. The DRC is transitioning to a Multi-Agency Resource Center (MARC) as FEMA continues to plan for long-term recovery. Teams registered thousands of individuals and helped put more than \$19M at time of report into the hands of our citizens to begin their recovery.



Watauga County Emergency Services

184 Hodges Gap Rd, Suite D Boone, NC 28607 Phone 828-264-4235 Fax 828-265-7617



Fire Marshal ♦ Emergency Management ♦ Communications

The deadline for organizations to apply for Public Assistance (PA) and individuals to apply for assistance (IA) have both been extended to April 7th, 2025

The Emergency Services Department is grateful for the partnership with our local, State, and federal partners specifically as they focus efforts to get money flowing into our community to restore what was lost and also build an even more resilient future.

Respectfully,

Will Holt ES Director

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AGENDA ITEM 9:

TAX MANAGEMENT ASSOCIATES, INC., BUSINESS PERSONAL PROPERTY AUDIT SERVICES CONTRACT

MANAGER'S COMMENTS:

Tyler Rash, Tax Administrator, will request the Board approve additional funds in the amount \$23,400 to Tax Management Associates for property auditing services. Staff is confident that once the audits are completed that additional revenue will be received to cover the additional expense. The additional funds will come from the administrative contingency fund.

Board action is required to approve the additional amount of \$23,400 to Tax Management Associates for property auditing services.

Tax Management Associates, Inc. Business Personal Property Audit Services Contract

WITNESSETH:

WHEREAS, the County desires to obtain audit services on the County business personal property taxpayers as authorized by the North Carolina General Statutes; and

NOW, THEREFORE, in consideration of the mutual covenants and agreements made herein, the parties agree as follows:

AGREEMENT

1. AUDIT SERVICES:

- A. In accordance with the charges, terms and conditions contained in this contract, TMA agrees to furnish Business Personal Property Audit Services to verify the accuracy of business taxpayers' business personal property tax listings filed with the County Tax Administrator. Audits to be performed by TMA to verify the accuracy in Taxpayers' listings shall be selected and assigned by the County as may hereafter be deemed appropriate.
- B. The services provided by TMA will be performed in accordance with the terms and conditions provided by this Contract and in compliance with all applicable North Carolina Property Tax Statutes. TMA agrees to perform audits in accordance with professionally accepted auditing and accounting standards.
- C. All correspondence in connection with audits sent to the Taxpayer will be signed by the County Tax Administrator or by his authorized designee.
- D. In order to assist in the scheduling of taxpayers' listings selected by the County for audit, the County agrees to make available to TMA copies of the personal property listings for the years for which audits are to be performed.
- E. TMA agrees to audit all listings assigned for audit for the most current year plus one prior year. If the results of the initial two (2) years audited identify a material discovery variance, then TMA will audit the most current year and all applicable prior years up to five (5) years as provided by North Carolina General Statute §105-312 which provides for Discovery Procedures and Limitations. The threshold to determine a material discovery variance is \$5,000 or more in discovered fair market value in any audited tax year.

- F. It is expressly understood by TMA that under the provisions of North Carolina General Statute §105-299, it and its employees are subject to the State Confidentiality Statutes (General Statute §105-289(I) and General Statute §105-259) and the penalties contained therein. TMA agrees to abide by the North Carolina Statutes concerning confidentiality of taxpayer records and shall hold the County harmless from any liability which may result from an action involving TMA or its employees or agents regarding confidentiality of taxpayer records.
- G. TMA agrees to provide training to designated employees of the County as to all aspects of the audit services provided pursuant to this Contract. Any appropriate designee of the County may accompany TMA on any audit, provided the County shall be responsible for the travel related expenses of such County employee.
- H. TMA agrees that no employee of the company will consult with or answer questions regarding any aspect of an audit being performed, except with authorized County officials and the taxpayer being audited, unless otherwise directed to do so by the County Tax Administrator.
- I. If through any cause, TMA or the County fails to fulfill its obligations as provided by this Contract, or materially violates any of the covenants or stipulations within this Contract, or becomes unsatisfied with services rendered, and such failure or violation continues for thirty (30) days after written notice thereof by a party, either party shall thereupon have the right to terminate this Contract immediately upon giving thirty (30) prior written notice to the other party. Said notice shall be mailed to the party by certified mail to the mailing address as specified herein. In the event of termination, all audits assigned and completed by TMA and all fees for completed audits shall be payable in accordance with the terms as provided by this Contract, less any costs or expenses incurred or anticipated to be incurred by the County due to any errors or omissions of TMA. Should this Contract be terminated, TMA shall deliver to the County within seven (7) days, at no additional cost, all deliverables including any electronic or files relating to the audit.
- J. It is expressly understood and agreed to by TMA and the County that the audit services performed under this Contract represent an examination of data and materials, as might be contained in a taxpayer's accounting records or other documents, for the purpose of verifying the accuracy of listings, reports, or statements filed with the County in connection with a taxpayer's listing of property. This service is not an appraisal service except that information obtained in an audit performed by TMA may be used by the County Tax Administrator to form an opinion or estimate of value as in an appraisal. TMA is solely responsible for the professional quality, accuracy and timely completion and/or submission of all work related to the audits.

2. COST AND PAYMENT FOR AUDIT SERVICES:

 The County shall pay to TMA for services furnished under this Contract according to the below chart. The appropriate cost will be applied according to the Audit Class and Assessed Value range per taxpayer location (a taxpayer location shall be identified by the differing account number, parcel number or physical address for one business) assigned for audit by the County.

PER AUDIT FEE SCHEDULE

Account Class	Asses	ssed V	Value	Fee	
S	\$0 -		\$49,999	\$750.00	
A	\$50,000	-	\$399,999	\$850.00	
В	\$400,000	-	\$999,999	\$1,600.00	
С	\$1,000,000	-	\$4,999,999	\$2,600.00	
D1	\$5,000,000	-	\$9,999,999	\$6,500.00	
D2	\$10,000,000	-	\$19,999,999	\$10,000.00	
D3	\$20,000,000	-	\$49,999,999	\$12,000.00	
D4	\$50,000,000	-	\$99,999,999	\$15,000.00	
D5	\$100,000,000	and	Above	\$20,000.00	

Should the County require any consulting work outside the scope of conducting business personal property audits, the fee would be: One hundred and fifty dollars (\$150) per hour.

In the first year of the audit program, the County has requested assistance with auditing fifteen (15) apartment type businesses. These accounts do not have a business personal property listing on record with the County. TMA will initially default pricing these accounts to size C for the fifteen (15) apartment type businesses assigned by the County for the first year of this audit contract. After the audit is completed and the accurate assessed value is identified, TMA will adjust the account class and associated pricing of each of these accounts in accordance with the schedule above not to exceed a total of Thirty-Nine Thousand (\$39,000) Dollars for the fifteen (15) apartment type businesses. All other accounts will follow our standard pricing and be sized according to the most recent years assessed value on record with the County with no account class or pricing adjustment based on results of the audit.

- 2. Invoicing TMA will invoice upon County's review and acceptance of the provided audit discovery letter. The County agrees to pay TMA for all properly completed and invoiced services. In the event the amount stated on an invoice is disputed by the County, the County may withhold payment of all or a portion of the amount stated in an invoice until the parties resolve the dispute. Should TMA fail to perform its duties under the terms of this Contract, County may, without fault or penalty, withhold any payments associated with the work to be performed until such time as said work is completed.
- 3. Not Contingency Fee It is expressly understood by the County and TMA that the invoicing provisions of this contract and/or contract addendum(s) are not subject to or contingent on the results of any or all audit(s) assigned by County to TMA and performed by TMA.
- 4. All expenses incurred by TMA in performing audits under this Contract including, but not limited to, travel, food, lodging, mileage, salaries, etc. shall be the responsibility of TMA.

- The County will be responsible for the cost of postage for handling audit correspondence and the cost of providing TMA copies of County tax records associated with an individual audit.
- 5. All legal costs involving tax appeals resulting from an audit shall be the responsibility of the County. TMA shall be responsible for defending its audit findings throughout any tax appeals process without additional cost to the County. Defense of audit findings shall include personal appearances at meetings with taxpayers or their representatives, and providing testimony and evidence at all hearings before the County Tax Administrator, Board of Equalization and Review, Board of County Commissioners, and at any other appeal level concerning information identified in an audit.

GENERAL PROVISIONS

- A. <u>AUTHORITY TO CONTRACT</u>: The County authority to contract for the service herein is authorized by North Carolina General Statute §105-299.
- **B.** <u>AUDIT</u>: All invoices shall be submitted by TMA to the County Tax Administrator with sufficient detail for a proper pre-audit or post-audit.
- C. <u>TERM / CANCELLATION</u>: This Contract shall become effective from the date entered above and shall remain in effect until June 30th, 2024 and shall continue in effect annually thereafter until cancelled or terminated. This Contract may be terminated by either party without cause following the initial term upon thirty (30) days written notice.
- **D.** <u>INDEMNIFICATION</u>: To the fullest extent permitted by laws and regulations, TMA shall indemnify and hold harmless the County and its officials, agents, and employees from and against all claims, damages, losses and expenses, direct, indirect or consequential (including, but not limited to, fees and charges to attorneys and other professionals and costs related to court action or arbitration) arising out of or resulting from the performance of this contract or the actions of TMA or its officials, employees, or contractors under this Contract or under the Contracts entered into by TMA in connection with this contract. This indemnification shall survive the termination of this Contract.
- E. <u>NON-DISCRIMINATION</u>: TMA shall not discriminate against any person on the grounds of race, color, national origin, sex, age or disability in the administration of this contract. Nor shall any person be excluded from participation in, or be denied the benefits of this contract on the grounds of race, color, national origin, sex, age or disability.
- **F.** <u>LAW CONTROLLING</u>: The laws of the state of North Carolina shall control and govern this contract.
- **G.** <u>VENUE</u>: This Contract is not assignable by either party, by operation of law or otherwise for any action on this contract shall be Watauga County, North Carolina, with parties hereby waiving any and all other venues.
- **H. MODIFICATION**: This contract may be modified only by a written agreement executed by both parties hereto.
- I. <u>ENTIRE AGREEMENT</u>: This contract constitutes the entire agreement of the parties and no other agreement or modification to this contract, expressed or implied, shall be binding on either party unless same shall be in writing and signed by both parties. This Contract may not be orally modified. Any modifications must be in writing, expressly titled a modification or addendum to this contract, attached to this contract, and signed by both parties.
- J. <u>SEVERABILITY</u>: Should any provision, portion, or application thereof of this Contract be determined by a court of competent jurisdiction to be illegal, unenforceable, or in conflict with any applicable law or constitutional provision, the Parties shall negotiate an equitable adjustment in the affected provisions of this Contract with a view toward effecting the purpose of this Contract, and the validity and enforceability of the remaining provisions, portions, or applications thereof, shall not be impaired.

K. <u>NON-APPROPRIATION</u>: TMA acknowledges that County is a governmental entity, and the validity of this Contract is based upon the availability of public funding under the authority of its statutory mandate.

In the event that public funds are unavailable and not appropriated for the performance of County's obligations under this Contract, then this Contract shall automatically expire without penalty to County immediately upon written notice to TMA of the unavailability and non-appropriation of public funds. It is expressly agreed that the County shall not activate this non-appropriation provision for its convenience or to circumvent the requirements of this Contract, but only as an emergency fiscal measure during a substantial fiscal crisis.

In the event of a change in the County's statutory authority, mandate and/or mandated functions, by state and/or federal legislative or regulatory action, which adversely affects County's authority to continue its obligations under this Contract, then this Contract shall automatically terminate without penalty to County upon written notice to TMA of such limitation or change in County's legal authority.

L. <u>NOTICES</u>: Any notices to be given or submitted by either party to the other pursuant to this Contract shall be made in writing and sent by first class mail, postage paid or by hand delivery to:

COUNTY:
WATAUGA COUNTY
Ste 21 Courthouse
842 W King St
Boone, NC 28607
ATTN: Larry D. Warren
Tax Administrator

CONSULTANT: TAX MANAGEMENT ASSOCIATES 5121 Parkway Plaza Blvd. Charlotte, NC 28217 ATTN: Richard H. "Chip" Cooke, Jr. Chief Executive Officer

Executed and entered into by the parties hereto:

ACCEPTED:	ACCEPTED:
WATAUGA COUNTY 842 W KING ST BOONE, NC 28607	TAX MANAGEMENT ASSOCIATES, INC. 5121 PARKWAY PLAZA BLVD. CHARLOTTE, NC 28217
AUTHORIZED SIGNATURE:	AUTHORIZED SIGNATURE:
Sign: Jarry Warren	RICHARD H. COOKE, JR.
TITLE: Tax Administrator	TITLE: CHIEF EXECUTIVE OFFICER
DATE: 9/11/2023	DATE:
ATTEST BY:	ATTEST BY:
TITLE:	TITLE:
APPROVED (If Required):	APPROVED (If Required):
AUTHORIZED SIGNATURE:	AUTHORIZED SIGNATURE:
NAME:	NAME:
TITLE:	TITLE:
DATE:	DATE:
APPROVED AS TO FORM:	
COUNTY ATTORNEY	

AGENDA ITEM 10:

MISCELLANEOUS ADMINISTRATIVE MATTERS

A. Proposed Valle Crucis School Change Order #5

MANAGER'S COMMENTS:

County Manager Geouque will request the Board approve Change Order #5 for the Valle Crucis Elementary School in the amount of \$39,488.12. Detail regarding the change order is attached. The County is still running a negative change order amount and the adoption of this change order will bring the amount to \$246,111.29.

Board action is required to adopt Change Order #5 as presented.



March 27, 2025

Watauga County Manager 814 West King Street Suite 205 Boone, NC 28607

Attn: Mr. Deron Geouque

County Manager

RE: VALLE CRUCIS ELEMENTARY SCHOOL

Dear Deron,

The following is a summary of Change Order 05 from H&M Constructors for Valle Crucis School. The H&M provided backup was forwarded in multiple packages via email.

COR #12:	\$24,541.74	Change to bridge abutments and additional site wall and wing walls per Revision 9 and returned bridge abutment shop drawings
COR #25:	\$2,058.45	ADA lift at stage with full height doors and power door actuators
COR #52:	(-\$21,189.41)	Deleted skylight and framing
COR #65:	\$4,028.43	Increased the flow rate to 50 GPM for the manganese water treatment
COR #66:	\$2,022.98	Addition of eyewash station at Health Room
COR #67:	\$ (-\$1,009.80)	Credit for switching from Bituthene to Tremco TREMproof 250 at foundation walls
COR #68:	\$2,397.69	Room 118: Removed tall cabinets and replaced with 2 base cabinets, countertop, and mailbox unit
COR #69:	\$730.62	Added 2 bike racks
COR #70:	\$1,934.92	Added HSS steel posts for reception desk sliding window support
COR #74:	\$1,567.31	Fire alarm relay for interface with magnetic contactor in HVLS fan power circuit required by code
COR #76:	\$697.86	Connected waterline to fire tank, stub out of fire tank for fire Hydrant per request of Fire Marshal
COR #81:	\$1,080.00	Wall relocation for fire pump
COR #83:	\$4,499.76	Plumbing revisions per Revision 18
COR #85:	\$1,683.00	Gym floor striping updates per School comments
COR #88 R-2:	\$7,209.99	Updates to casework per FFE/ School coordination



COR #92:	\$2,411.62	Epoxy countertops in lieu of plastic laminate in Science Prep
		Room
COR #93:	\$1,303.24	Rework wall and ceiling at ductwork at 156
COR #105:	\$3,341.32	Added pipe insulation and jacket to fire sprinkler tank
		exterior piping
COR #106:	\$178.40	Cap vent line and install studor vent for mop sink

We continue to appreciate the opportunity to work with Watauga County and look forward to the successful completion of the project. Should you have any questions, please do not hesitate to contact us.

Sincerely,

CLARK NEXSEN

Eve Szentesi, AIA, LEED AP BD+C







ATA Document G701 - 2017

Change Order

PROJECT: (Name and address) Valle Crucis Elementary School Sugar Grove, NC

OWNER: (Name and address)

Watauga County 814 W. King Street Boone, NC 28607

CONTRACT INFORMATION:

Contract For: General Construction

Date: 2/14/2023

ARCHITECT: (Name and address) Clark Nexsen 301 College Street Suite 300

Asheville, NC 28801

CHANGE ORDER INFORMATION:

Change Order Number: 005

Date: 1/21/2025

CONTRACTOR: (Name and address) H&M Constructors, a Division of MB

Haynes Corporation 187 Deaverview Road Asheville, NC 28806

THE CONTRACT IS CHANGED AS FOLLOWS:

(Insert a detailed description of the change and, if applicable, attach or reference specific exhibits. Also include agreed upon adjustments attributable to executed Construction Change Directives.)

COR #12: \$24,541.74 COR #25: \$2,058.45

COR #52: (-\$21,189,41)

COR #65: \$4,028.43 COR #66: \$2,022.98

COR #67: (-\$1,009.80)

COR #68: \$2,397.69 COR #69: \$730.62 COR #70: \$1,934.92 COR #74: \$1,567.31 COR #76: \$697.86 COR #81: \$1,080.00 COR #83: \$4,499.76 COR #85: \$1,683.00

COR #88 R-2: \$7,209.99 COR #92: \$2,411.62 COR #93: \$1,303.24 COR #105: \$3,341.32 COR #106: \$178.40

The original Contract Sum was The net change by previously authorized Change Orders The Contract Sum prior to this Change Order was The Contract Sum will be increased by this Change Order in the amount of The new Contract Sum including this Change Order will be

The Contract Time will be unchanged by The new date of Substantial Completion will be December 22, 2024

47,874,600.00 -285,599,41 47,589,000.59 39.488.12 47.628.488.71

NOTE: This Change Order does not include adjustments to the Contract Sum or Guaranteed Maximum Price, or the Contract Time, that have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

1

NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONTRACTOR AND OWNER.

Clark Nexsen, Inc.	H&M Constructors	Watauga County by Deron Geoughe
ARCHITECT (Firm name)	CONTRACTOR (Firm name)	OWNER (Firm name)
Churter le grots	A reg Goden	Dem George
SIGNATURE /	SIGNATURE	SIGNATURE
Eve Szentesi, AIA, LEED AP BD+C	GREG BORDEN	
Senior Architect	SENIOR V.P.	Deron George County Manager
PRINTED NAME AND TITLE	PRINTED NAME AND TITLE	PRINTED NAME AND TITLE
1/21/2025	2-18-25	3-25-2025
DATE	DATE	DATE

This instrument has been preaudited in the manner required by the local Government Budget and Fiscal Control Act.

-25-2025

Finance Direct

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AGENDA ITEM 10:

MISCELLANEOUS ADMINISTRATIVE MATTERS

B. Resolution to Partner with The Town of Boone Establishing a Bridge to Link County and Town Properties Located at Brookshire Park and Ted Mackorell Soccer Complex

MANAGER'S COMMENTS:

The Town of Boone is requesting to partner with the County regarding a bridge at the Brookshire Park and Ted Mackorell Soccer Complex connecting to the Town's property.

Board action is required to adopt the resolution as presented.

STATE OF NORTH CAROLINA **COUNTY OF WATAUGA**

Resolution to Partner with The Town of Boone **Establishing a Bridge to Link County and Town Properties Located at Brookshire Park and Ted Mackorell Soccer Complex**

WHEREAS; Watauga County and the Town of Boone own property on each side of the South Fork of the New River located at Brookshire Park and Ted Mackorell Soccer Complex; and

WHEREAS; the County maintains the Brookshire Park, Ted Mackorell Soccer Complex, and a greenway trail that connects to the Town's greenway system; and

WHEREAS; the property is heavily utilized for recreation and bridging the properties will expand the recreational opportunities for the community and visitors; and

WHEREAS; the County and the Town partnered in 2021 with the New River Conservancy to restore 1,700 linear feet of the river; and

WHEREAS; the partnership of the County and the Town to restore portions of the New River in 2021 reduced the damage to the river by Hurricane Helene; and

WHEREAS; the "County-Town Bridge" will commemorate all of the efforts to rescue, recover, restore, and renew our community from the impact of Hurricane Helene.

NOW, THEREFORE, BE IT RESOLVED, that the Watauga County Board of Commissioners agrees to work in conjunction with the Town of Boone to identify a location and grant funding to establish the "County-Town Bridge" in the area of the Brookshire Park and Ted Mackorell Soccer Complex.

ADOPTED this the 1^{st} day of April, 2025. Braxton Eggers, Chairman Watauga County Board of Commissioners ATTEST: Anita Fogle, Clerk to the Board

AGENDA ITEM 10:

MISCELLANEOUS ADMINISTRATIVE MATTERS

C. Resolution to Approve North Carolina Cashflow Loan Agreement and Promissory Note

MANAGER'S COMMENTS:

Board action is required to approve the resolution for the North Carolina Cashflow Loan Agreement and Promissory Note. The program would allow the County to use the monies to front payment of Hurricane Helene damages until FEMA reimbursements are received. The County is currently eligible for \$895,477.60 The loan is interest free and would be a significant tool in the County's cash flow management.

Board action is required to adopt the resolution as presented.

STATE OF NORTH CAROLINA
COUNTY OF WATAUGA

Resolution

To Approve North Carolina Cashflow Loan Agreement and Promissory Note

WHEREAS, in connection with the State of North Carolina Cashflow Loan Program (Loan Program) authorized by the Disaster Recovery Act of 2024, Session Law 2024-53 (as amended by Session Law 2024-57), the North Carolina Department of State Treasurer has been working with the North Carolina Department of Public Safety-Division of Emergency Management (NCEM), the North Carolina Association of County Commissioners (NCACC), and the North Carolina League of Municipalities (NCLM) to formulate a working plan for the disbursement of cashflow loans aimed at assisting local governments affected by Hurricane Helene; and

WHEREAS, local governments wishing to participate in the Loan Program are required to execute a Cashflow Loan Agreement and Promissory Note with the State of North Carolina, by and through the North Carolina Department of the State Treasurer.

NOW, THEREFORE BE IT RESOLVED by the Watauga County Board of Commissioners:

- 1. That the Cashflow Loan Agreement and Promissory Note provided by the North Carolina Department of the State Treasurer are hereby approved.
- 2. That the Manager, Clerk, or Authorized Representative of a Tribal Government is authorized to execute the attached agreements (or those substantially equivalent thereto) and such other agreements and actions as necessary to receive disaster recovery loan funding from the State of North Carolina.

ADOPTED this the 1^{st} day of April, 2025.	SEAL OF WATA
Braxton Eggers, Chairman Watauga County Board of Commissioners	SOCO
ATTEST:	
 Anita Fogle, Clerk to the Board	ORTH CAROLINA

This contract has been pre-audited as required by the Local Government Budget and Fiscal Control Act

Finance Officer

STATE CASHFLOW LOANS FOR DISASTER RESPONSE ACTIVITIES TO LOCAL GOVERNMENTS

LOAN AGREEMENT BETWEEN

THE STATE OF NORTH CAROLINA (BY AND THROUGH THE DEPARTMENT OF STATE TREASURER)

AND

THE COUNTY OF WATAUGA, NORTH CAROLINA

Loan Round:

Round 1

Loan Number:

Helene5194R1000000000

Loan Date:

\$895,477.60

REPAYMENT TERMS:

Loan Round Amount:

- \$1 by the first anniversary of the Loan Date
- 10% of the Loan Round Amount on June 30, 2027
- 20% of the Loan Round Amount on June 30, 2028
- 30% of the Loan Round Amount June 30, 2029
- 40% (less \$1) of the Loan Round Amount on the earlier of the fifth anniversary of the Loan Date or June 30, 2030.

Recipient Tax ID	/EINI.	
Recipient Tax ID	CIIV:	

PURPOSE:

For good and valuable consideration, the adequacy of which is hereby acknowledged, this loan agreement ("Agreement") is hereby entered into by and between the State of North Carolina, by and through the North Carolina Department of State Treasurer ("NCDST"), and the **County of Watauga, North Carolina** ("RECIPIENT") (referred to individually as Party and collectively as "Parties") to provide NCDST cashflow loans for disaster response activities to local governments, in accordance with Section 4E.5. of North Carolina Session Law 2024-53, as modified by Section 1F.1 of North Carolina Session Law 2024-57 (together, as amended, the "Authorizing Act").

1. EFFECTIVE TERM:

This Agreement shall be effective as of the latest date of signature below ("Effective Date") and, subject to Section 15, shall terminate upon full repayment of the loan proceeds to NCDST, unless earlier terminated pursuant to Section 9.

2. NCDST'S DUTIES & PAYMENT PROVISIONS:

NCDST shall loan RECIPIENT a total of \$895,477.60 to pay for RECIPIENT'S disaster response activities as set forth in FEMA Public Assistance Worksheets. This principal-only loan does not carry interest charges or administrative fees. Upon signature of this Agreement by the Parties, the funds will promptly be transferred to

RECIPIENT via wire/ACH transfer to the RECIPIENT'S account, pursuant to the written bank wiring instructions that RECIPIENT must submit to the NCDST as provided in Section 3.a. below.

3. RECIPIENT'S DUTIES AND REPRESENTATIONS:

- a. As soon as reasonably practicable following its receipt of this Agreement, RECIPIENT shall provide each of the following to NCDST: (a) a certified copy of a resolution authoring execution of the Agreement and Promissory Note in the form set forth in Attachment A; (b) an executed copy of this Agreement; (c) an executed Promissory Note in the form set forth in Attachment B; and (d) the completed NCDST Hurricane Helene Cashflow Loan Program Wire Form enclosed as Attachment C, signed and certified by the appropriate official of RECIPIENT.
- b. Before and during the term of this Agreement, RECIPIENT will use or has used loan proceeds to cover expenditures for disaster response activities, which may be expenditures that are eligible for reimbursement by the Federal Emergency Management Agency (FEMA) Public Assistance Program, National Flood Insurance Program, or other federal reimbursement program.
- c. Both NCDST and RECIPIENT agree that this Agreement shall be interpreted as to not diminish or impair RECIPIENT's eligibility to secure FEMA or related recovery funding support.
- d. RECIPIENT shall make every reasonable effort to seek reimbursement from the federal government for expenditures that will be temporarily covered by loan proceeds under this Agreement.
- e. Notwithstanding the Repayment Terms as stated on Page 1 of this Agreement, if RECIPIENT receives funding support from the federal government for expenditures covered under the FEMA Public Assistance Worksheets used as the basis for this Agreement, RECIPIENT shall repay NCDST the equivalent amount of loan proceeds within five (5) business days of receipt of the federal funding support.
- f. RECIPIENT agrees that loan proceeds received through this Agreement shall be accounted for in a separate fund and accounting structure within RECIPIENT's central accounting system. RECIPIENT agrees to manage all accounts payable disbursements, check register disbursements, and related transactions in a detailed manner that supports fully transparent accounting of all financial transactions associated with loan funding allocations described in Section 2 of this Agreement. RECIPIENT understands and acknowledges the total direct loan funding level available under this Agreement is \$895,477.60.
- g. As provided in the Authorizing Act:
 - (i) RECIPIENT agrees to deliver repayment installments of the loan proceeds in the amounts and by the dates set forth in the Repayment Terms recited on Page 1 above, which are hereby incorporated by reference. Further, RECIPIENT understands and agrees that all loan proceeds provided to RECIPIENT under this Agreement must be repaid no later than the earlier of the following two dates: (a) the five-year anniversary of the Loan Date; or (b) June 30, 3030.
 - (ii) RECIPIENT shall use best efforts and take all reasonable steps to obtain alternative funds that cover the losses or needs for which the loan proceeds are being provided, including funds from insurance policies in effect, available federal aid, and private donations. RECIPIENT understands and agrees that the loan proceeds paid to RECIPIENT pursuant to this Agreement are in excess of any funds received by RECIPIENT from any of the following: (a) settlement of a claim for loss or damage covered under RECIPIENT's applicable insurance policy in effect; (b) federal aid; or (c) private donations.
 - (iii) If RECIPIENT obtains alternative funds pursuant to subdivision (ii) of this subsection g., RECIPIENT shall promptly remit such funds to NCDST. Notwithstanding the preceding sentence,

RECIPIENT shall not be required to repay to NCDST any amount in excess over the amount of loan proceeds provided under this Agreement.

4. AGREEMENT ADMINISTRATORS:

All notices permitted or required to be given by one Party to the other and all questions about the Agreement from one Party to the other shall be addressed and delivered to the other Party's Agreement Administrator. The name, post office address, street address, telephone number, fax number, and email address of the Parties' respective initial Agreement Administrators are set out below. Either Party may change the name, post office address, street address, telephone number, fax number, or email address of its Agreement Administrator by giving timely written notice to the other Party.

For NCDST				
IF DELIVERED BY US POSTAL SERVICE	IF DELIVERED BY ANY OTHER MEANS			
Jeffrey A. Poley	Jeffrey A. Poley			
Director of Disaster Services and Rural Economic	Director of Disaster Services and Rural Economic			
Development	Development			
Office of the State Treasurer	Office of the State Treasurer			
3200 Atlantic Avenue	3200 Atlantic Avenue			
Raleigh, North Carolina 27604	Raleigh, North Carolina 27604			
Phone: (919) 500-0855	Phone: (919) 500-0855			
Email: helenecashflowloans@nctreasurer.com	Email: helenecashflowloans@nctreasurer.com			

For RECIPIENT					
IF DELIVERED BY ANY OTHER MEANS					
Name					
Title					
Address					
Email					
Phone					

5. MONITORING AND AUDITING:

RECIPIENT acknowledges and agrees that, commencing on the Effective Date of this Agreement and for a period of three (3) years following this Agreement's termination, RECIPIENT's books, records, documents and facilities with respect to the loan funds shall be open to NCDST for auditing, inspection and monitoring at all times during such period. Further, upon a request for access by NCDST (whether in writing or otherwise), RECIPIENT shall make all such books, records, documents, and facilities open to NCDST for inspection. To that end, RECIPIENT agrees to provide NCDST staff, any authorized agent or other designee of NCDST, and

staff of the Office of State Auditor, as applicable, with access to financial and accounting records to support internal audit, financial reporting and related requirements.

RECIPIENT acknowledges and agrees that, with regard to the Loan funds, it will be subject to the audit and reporting requirements prescribed by N.C.G.S. § 159-34 (Annual independent audit; rules and regulations) within the Local Government Budget and Fiscal Control Act. Such audit and reporting requirements may vary depending upon the amount and source of Loan funding received by RECIPIENT and are subject to change.

RECIPIENT acknowledges and agrees that, with regard to the loan funds, it will be subject to the reporting requirements of both NCDST and the North Carolina Office of Budget and Management, as mandated by those agencies from time to time, as applicable.

6. SITUS AND EXCLUSIVE VENUE:

This Agreement shall be governed by the laws of North Carolina and any claim for breach or enforcement of this Agreement shall be filed in State court in Wake County, North Carolina.

7. COMPLIANCE WITH LAW:

RECIPIENT shall be wholly responsible for the loan terms and RECIPIENT's responsibilities described in this Agreement. RECIPIENT shall be responsible for supervision of any of its employees and contractors funded under this Agreement, and compliance with all laws, ordinances, codes, rules, regulations, licensing requirements and other regulatory matters that are applicable to the conduct of their loan performance under this Agreement, including those of Federal, State, and local agencies having appropriate jurisdiction. RECIPIENT is reminded that all funds are subject to the requirements of the Local Government Budget and Fiscal Control Act, including but not limited to all budgeting and pre-audit requirements.

8. CLAW-BACK; OFFSET:

- a. NCDST may also demand repayment of previously expended funds, and RECIPIENT must comply with such a demand, in the event NCDST determines that RECIPIENT has not spent loan funds on eligible uses set forth in the FEMA project worksheets used to determine the Loan Round Amount, or if NCDST determines that RECIPIENT has not materially complied with any other requirements set forth in this Agreement concerning the loan funds (generally, "Non-Compliance"). Before making a formal demand for repayment as provided in this subsection, NCDST will provide RECIPIENT thirty (30) days' written notice to cure such Non-Compliance, and the Parties will make every reasonable effort to resolve the problem informally.
- b. In the event the Parties are unable to resolve RECIPIENT's Non-Compliance as provided in subsection a. above, RECIPIENT understands and agrees that, pursuant to N.C. Gen. Stat. § 147-71, the State Treasurer is authorized to demand, sue for, collect and receive all money and property of the State not held by some person under authority of law. In addition, RECIPIENT understands and agrees that NCDST shall have the right to recoup any funds for which repayment has been demanded through the Setoff Debt Collection Act (Chapter 105A of the North Carolina General Statutes) and any other provision of State law providing for setoff debt collection, as applicable.

9. TERMINATION OF AGREEMENT:

Subject to Section 15, this Agreement may be terminated:

- a. By mutual written consent of the Parties;
- b. By NCDST for cause, if: (i) RECIPIENT violates the terms of this Agreement and RECIPIENT fails to correct the violation(s) within thirty (30) days of written notice of violation from NCDST; (ii) NCDST determines RECIPIENT has made a misrepresentation in connection with this loan; or (iii) RECIPIENT

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- abandons or otherwise ceases to make reasonable progress towards completion of the disaster response activities funded by this Agreement; or
- c. In the event that RECIPIENT repays the loan amount in full prior to the fifth anniversary of the Loan Date.

In the event of termination, NCDST may require the return of unspent funds. NCDST may, in its sole discretion, allow RECIPIENT to retain or be reimbursed for costs reasonably incurred prior to termination that were not made in anticipation of termination and cannot be canceled, provided that said costs meet the provisions of this Agreement.

10. AMENDMENTS:

Subject to all applicable laws, this Agreement may be amended in writing, executed by both NCDST and RECIPIENT. If RECIPIENT requests revisions of Agreement terms, it shall provide to NCDST for review and approval a detailed written request that includes documented financial management reason(s) for amending the terms of this Agreement.

11. E-VERIFY:

If this Agreement is subject to N.C. Gen. Stat. § 143-133.3, RECIPIENT shall impose the obligations of Article 2 of Chapter 64 of the General Statutes on any contractor and its subcontractors funded by this Agreement.

12. LIMITATION OF LIABILITY; CONTRACTUAL RIGHTS:

RECIPIENT will hold NCDST harmless from any loss(es) or damage(s) arising in connection with the performance of this Agreement to the extent permitted by law, including the North Carolina Tort Claims Act (Article 31 of Chapter 143 of the North Carolina General Statutes). This Agreement is intended for the sole and exclusive benefit of the Parties. This Agreement does not create, and shall not be construed as creating, any rights enforceable by any person not a party to this Agreement. Nothing herein shall be construed as a waiver of the sovereign immunity of the State of North Carolina.

13. SEVERABILITY:

- a. Generally. Nothing in this Agreement is intended to conflict with any law, or regulation, or rule of the United States, or the State of North Carolina, or NCDST. The Parties agree that if a term of this Agreement cannot be interpreted in a way to be consistent with such authority, then that term shall be deemed invalid, but the remaining terms and conditions of this Agreement shall remain in full force and effect.
- b. Federal Reimbursement. The Parties expressly agree that they intend for this Agreement to constitute and be construed as a loan agreement, toward the end that all loan proceeds provided to RECIPIENT hereunder would remain eligible for reimbursement under the FEMA Public Assistance Program, National Flood Insurance Program, or other federal reimbursement program (generally, for purposes of this subsection, the "Federal Funding Programs"). The Parties further agree that: (i) no provision of this Agreement shall be construed as creating or contemplating a current or future condition or circumstance that would in any way alleviate RECIPIENT of the repayment obligations set forth in this Agreement, or in the related Promissory Note; and (ii) to the extent that any word, phrase, clause, sentence, or term of this Agreement is deemed incongruous with any relevant provision(s) of federal law pertaining to RECIPIENT's eligibility for reimbursement under the Federal Funding Program(s), then such word, phrase, clause, sentence or term shall be modified, deleted, or interpreted in such a manner as to make the loan funds provided to RECIPIENT hereunder fully reimbursable under the Federal Funding Program(s), or else reimbursable to the maximum extent allowable under such program(s).

14. ENTIRE AGREEMENT:

This Agreement and any annexes, exhibits, and amendments appended hereto, and any documents incorporated specifically by reference, represent the entire Agreement between the Parties and supersede all prior oral and written statements or Agreements.

15. SURVIVAL:

The following sections shall survive termination of this Agreement: 3.c., 5, 6, 7, 8, 12 and 13.

16. EXECUTION AND EFFECTIVE DATE:

This Agreement may be executed in counterparts, each of which shall be deemed an original but all of which shall constitute one and the same instrument. One or more counterparts of this Agreement may be delivered by facsimile or in Adobe Portable Document Format (PDF) sent by electronic mail, with such delivery having the same effect as delivery of an original counterpart. Signatures provided by facsimile transmission, in PDF sent by electronic mail, or by electronic signature such as DocuSign, shall be deemed to be original signatures.

This Agreement shall become effective upon the Effective Date and NCDST's loan obligations shall commence upon NCDST's receipt of the items set forth in 3.a. above.

[signature page follows]

19. AUTHORIZED SIGNATURE WARRANTY:

COUNTY OF WATAUGA, NORTH CAROLINA

The undersigned represent and warrant that they are authorized to bind their principals to the terms of this Agreement.

In Witness Whereof, RECIPIENT and the State of North Carolina, acting by and through the NCDST have executed this Agreement in duplicate originals, with one original being retained by each party.

AUTHORIZING OFFICIAL	Date
Printed Name	Title
STATE OF NORTH CAROLIN	A, by:
NORTH CAROLINA DEPART	MENT OF STATE TREASURER
AUTHORIZING OFFICIAL	Date
Jeffrey A. Poley	Director of Disaster Services and Rural Economic Development

ATTACHMENT A

RESOLUTION TO APPROVE NORTH CAROLINA CASHFLOW LOAN AGREEMENT AND PROMISSORY NOTE

WITNESSETH:

WHEREAS, in connection with the State of North Carolina cashflow loan program (Loan Program) authorized by the Disaster Recovery Act of 2024, Session Law 2024-53 (as amended by Session Law 2024-57), the North Carolina Department of State Treasurer has been working with the North Carolina Department of Public Safety-Division of Emergency Management (NCEM), the North Carolina Association of County Commissioners (NCACC), and the North Carolina League of Municipalities (NCLM) to formulate a working plan for the disbursement of cashflow loans aimed at assisting local governments affected by Hurricane Helene; and

WHEREAS, local governments wishing to participate in the Loan Program are required to execute a Cashflow Loan Agreement and Promissory Note with the State of North Carolina, by and through the North Carolina Department of the State Treasurer; and

NOW, THEREFORE BE IT RESOLVED BY THE COUNTY OF WATAUGA, NORTH CAROLINA:

 That the Cashflow Loan Agreement and Promissory Note provided by the North Carolina Department of the State Treasurer are hereby approved.

2. That the Manager, Clerk, or Authorized Representative of a Tribal Government is authorized to execute the attached

agreements (or those substantially equivalent thereto) and such other agreements and actions as necessary to receive disaster recovery loan funding from the State of North Carolina.

Adopted, this the ______ day of _____

COUNTY OF WATAUGA, NORTH CAROLINA

By: _____
Mayor/Commissioner/Authorized Representative

Name: _____

Title: _____

Town Clerk/Authorized Representative

ATTACHMENT B

This Promissory Note has been pre-audited as required by the Local Government Budget and Fiscal Control Act

	Finance Officer
PROMISSORY NOT	E
Date:	Loan Number: Helene5194R100000000 Loan Amount: \$895,477.60
The County of Watauga, North Carolina ("BORROWER' pay to the STATE OF NORTH CAROLINA (by and through the I ("State") the following Loan Amount: \$895,477.60 The promissory in Agreement, dated as the date hereof (the "Agreement"), between the Agreement, the BORROWER hereby promises to pay the Loan Amount.	North Carolina Department of State Treasurer) tote is made in accordance with the related Loan State and the BORROWER. As set forth in the
 \$1 the first anniversary of the Loan Date 10% of the Loan Round Amount on June 30, 2027 20% of the Loan Round Amount on June 30, 2028 30% of the Loan Round Amount on June 30, 2029 40% (less \$1) of the Loan Round Amount on the Date recited in the Agreement or June 30, 2030. 	
Payment instructions will follow from the State or its agent.	
This Promissory Note and the Agreement were duly authorized by ac a meeting duly held on	ction of the BORROWER's governing body at
COU	NTY OF WATAUGA, NORTH CAROLINA
	Signature
	[Name and Title]
[SEAL]	
Attest:	
Signature	

[Name and Title—should be clerk]

ATTACHMENT C



BRADFORD B. BRINER STATE TREASURER OF NORTH CAROLINA

FINANCIAL OPERATIONS DIVISION

Hurricane Helene Cash Flow Loan Program Wire Form

Questions concerning the completion	n of this form should be directed to 919-814-3902.
RECIPIENT INFORMATION	
Recipient/Account Holder's Name:	
Recipient's Address, City, State, Zip:	
Information for the Recipient (optional):	
BENEFICIARY BANK INFORMATION	
Beneficiary Bank Name:	
Beneficiary Bank Routing Transit Number (RTN)	:
Beneficiary Bank Account Number:	
Bank's Address, City, State, Zip:	
Information for the Beneficiary Bank, if applicable	e:
	ank information provided above is true and correct. and I am authorized iness on the account listed above. Only original signatures accepted; no
Recipient Official's Printed Name	Signature
Phone #	Date Date
FOR	R INTERNAL USE ONLY
Fina	ancial Operations Division
US Dollar Wire Amount: \$895,477.60	Contract/Reference #: Helene5194R1000000000
Date Wire Processed:	

3200 Atlantic Avenue • Raleigh, North Carolina 27604 Courier #56-20-45 • Telephone: (919) 814-4000 •

Fax: (919) 855-5809 www.NCTreasurer.com

AGENDA ITEM 10:

MISCELLANEOUS ADMINISTRATIVE MATTERS

D. Proposed Amendment to SDR Contract

MANAGER'S COMMENTS:

SDR, the County's contractor for right-of-way debris removal, is requesting an increase in the not to exceed amount of their contract from \$2 million to \$3.8 million.

Board approval is required to grant the increase of \$1.8 million in the not to exceed amount to SDR's contract



Notice to Proceed Update

This	Contract	Amendment,	made	and	entered	into	this		th	day	of
April_	, 2025, by a	nd between Wat	tauga C	ounty	<i>, NC</i> herei	nafter	terme	d the	"Ow	ner", a	and
South	ern Disast	er Recovery, L	LC,(SDF	R) here	einafter ter	med t	he "Co	ntrac	tor".		

WITNESSETH

WHEREAS, due to the devastating effects of Hurricane Helene, the Owner issued a Notice to Proceed (NTP) to the Contractor on the 3rd of October 2024 consistent with the North Carolina Department of Public Safety contract for Disaster Debris Removal Services.

WHEREAS, the Not to Exceed mechanism was placed in the contract for elected and senior appointed official visibility on the project and

WHEREAS, the initial SDR Not to Exceed amount is \$2,000,000.00 and

WHEREAS, SDR right of way work in Watauga County is nearing completion

NOW, **THEREFORE**, in consideration of the mutual covenants contained herein, the parties hereby agree as follows:

1. Increase the Not to Exceed amount by \$1,800,000.00 in order to complete the County's right of way debris removal.

All other terms and conditions of the original Contract Agreement remain unchanged.

SOUTHERN DISASTER RECOVERY, LLC
Ву:
Title:
Date:

AGENDA ITEM 10:

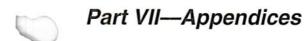
MISCELLANEOUS ADMINISTRATIVE MATTERS

E. Public Hearing Request to Allow Citizen Comment on the Potential Repealing of the Fire Appendices

MANAGER'S COMMENTS:

Per commissioner request, a public hearing has been scheduled for May 6, 2025 to allow for citizen comment on the potential to repeal the fire appendices.

Board action is required to schedule a public hearing on May 6, 2025 to allow for citizen comment on the potential to repeal the fire appendices.



APPENDIX A BOARD OF APPEALS

Deleted.









APPENDIX B

FIRE-FLOW REQUIREMENTS FOR BUILDINGS

The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.

SECTION B101 GENERAL

B101.1 Scope. The procedure for determining fire-flow requirements for buildings or portions of buildings hereafter constructed shall be in accordance with this appendix. This appendix does not apply to structures other than buildings.

SECTION B102 DEFINITIONS

B102.1 Definitions. For the purpose of this appendix, certain terms are defined as follows:

FIRE-FLOW. The flow rate of a water supply, measured at 20 pounds per square inch (psi) (138 kPa) residual pressure, that is available for fire fighting.

FIRE-FLOW CALCULATION AREA. The floor area, in square feet (m²), used to determine the required fire flow.

SECTION B103 MODIFICATIONS

B103.1 Decreases. The fire chief is authorized to reduce the fire-flow requirements for isolated buildings or a group of buildings in rural areas or small communities where the development of full fire-flow requirements is impractical.

B103.2 Increases. The fire chief is authorized to increase the fire-flow requirements where conditions indicate an unusual susceptibility to group fires or conflagrations. An increase shall not be more than twice that required for the building under consideration.

B103.3 Areas without water supply systems. For information regarding water supplies for fire-fighting purposes in rural and suburban areas in which adequate and reliable water supply systems do not exist, the *fire code official* is authorized to utilize NFPA 1142 or the *International Wildland-Urban Interface Code*.

SECTION B104 FIRE-FLOW CALCULATION AREA

B104.1 General. The fire-flow calculation area shall be the total floor area of all floor levels within the *exterior walls*, and under the horizontal projections of the roof of a building, except as modified in Section B104.3.

B104.2 Area separation. Portions of buildings which are separated by *fire walls* without openings, constructed in accordance with the *International Building Code*, are allowed to be considered as separate fire-flow calculation areas.

B104.3 Type IA and Type IB construction. The fire-flow calculation area of buildings constructed of Type IA and Type IB construction shall be the area of the three largest successive floors.

Exception: Fire-flow calculation area for open parking garages shall be determined by the area of the largest floor.

SECTION B105 FIRE-FLOW REQUIREMENTS FOR BUILDINGS

B105.1 One- and two-family dwellings, Group R-3 and R-4 buildings and townhouses. The minimum fire-flow and flow duration requirements for one- and two-family *dwellings*, Group R-3 and R-4 buildings and townhouses shall be as specified in Tables B105.1(1) and B105.1(2).

B105.2 Buildings other than one- and two-family dwellings, Group R-3 and R-4 buildings and townhouses. The minimum fire-flow and flow duration for buildings other than one- and two-family *dwellings*, Group R-3 and R-4 buildings and townhouses shall be as specified in Tables B105.2 and B105.1(2).

TABLE B105.1(1)
REQUIRED FIRE-FLOW FOR ONE- AND TWO-FAMILY DWELLINGS, GROUP R-3 AND R-4 BUILDINGS AND TOWNHOUSES

FIRE-FLOW CALCULATION AREA (square feet)	AUTOMATIC SPRINKLER SYSTEM (Design Standard)	MINIMUM FIRE-FLOW (gallons per minute)	FLOW DURATION (hours)
0-3,600	No automatic sprinkler system	1,000	1
3,601 and greater	No automatic sprinkler system	Value in Table B105.1(2)	Duration in Table B105.1(2) at the required fire-flow rate
0-3,600	Section 903.3.1.3 of the <i>International Fire Code</i> or Section P2904 of the <i>International Residential Code</i>	500	1/2
3,601 and greater	Section 903.3.1.3 of the <i>International Fire Code</i> or Section P2904 of the <i>International Residential Code</i>	¹ / ₂ value in Table B105.1(2)	1

For SI: 1 square foot = 0.0929 m², 1 gallon per minute = 3.785 L/m.

APPENDIX B 040125 BCC Meeting

TABLE B105.1(2) REFERENCE TABLE FOR TABLES B105.1(1) AND B105.2

FIRE-FLOW CALCULATION AREA (square feet)				FIRE-FLOW	FLOW DURATION	
Type IA and IB*	Type IIA and IIIA*	Type IV and V-A*	Type IIB and IIIB ^a	Type V-B*	(gallons per minute)b	(hours)
0-22,700	0-12,700	0-8,200	0-5,900	0-3,600	1,500	
22,701-30,200	12,701-17,000	8,201-10,900	5,901-7,900	3,601-4,800	1,750	
30,201-38,700	17,001-21,800	10,901-12,900	7,901-9,800	4,801-6,200	2,000	2
38,701-48,300	21,801-24,200	12,901-17,400	9,801-12,600	6,201-7,700	2,250	2
48,301-59,000	24,201-33,200	17,401-21,300	12,601-15,400	7,701-9,400	2,500	
59,001-70,900	33,201-39,700	21,301-25,500	15,401-18,400	9,401-11,300	2,750	
70,901-83,700	39,701-47,100	25,501-30,100	18,401-21,800	11,301-13,400	3,000	
83,701-97,700	47,101-54,900	30,101-35,200	21,801-25,900	13,401-15,600	3,250	2
97,701-112,700	54,901-63,400	35,201-40,600	25,901-29,300	15,601-18,000	3,500	3
112,701-128,700	63,401-72,400	40,601-46,400	29,301-33,500	18,001-20,600	3,750	
128,701-145,900	72,401-82,100	46,401-52,500	33,501-37,900	20,601-23,300	4,000	
145,901-164,200	82,101-92,400	52,501-59,100	37,901-42,700	23,301-26,300	4,250	
164,201-183,400	92,401-103,100	59,101-66,000	42,701-47,700	26,301-29,300	4,500	
183,401-203,700	103,101-114,600	66,001-73,300	47,701-53,000	29,301-32,600	4,750	
203,701-225,200	114,601-126,700	73,301-81,100	53,001-58,600	32,601-36,000	5,000	
225,201-247,700	126,701-139,400	81,101-89,200	58,601-65,400	36,001-39,600	5,250	
247,701-271,200	139,401-152,600	89,201-97,700	65,401-70,600	39,601-43,400	5,500	
271,201-295,900	152,601-166,500	97,701-106,500	70,601-77,000	43,401-47,400	5,750	
295,901-Greater	166,501-Greater	106,501-115,800	77,001-83,700	47,401-51,500	6,000	4
_	_	115,801-125,500	83,701-90,600	51,501-55,700	6,250	
_	_	125,501-135,500	90,601-97,900	55,701-60,200	6,500	
<u></u>	_	135,501-145,800	97,901-106,800	60,201-64,800	6,750	
_	_	145,801-156,700	106,801-113,200	64,801-69,600	7,000	
_	_	156,701-167,900	113,201-121,300	69,601-74,600	7,250	
_	_	167,901-179,400	121,301-129,600	74,601-79,800	7,500	
-	_	179,401-191,400	129,601-138,300	79,801-85,100	7,750	
_	_	191,401-Greater	138,301-Greater	85,101-Greater	8,000	

For SI: 1 square foot = 0.0929 m², 1 gallon per minute = 3.785 L/m, 1 pound per square inch = 6.895 kPa.

TABLE B105.2 REQUIRED FIRE-FLOW FOR BUILDINGS OTHER THAN ONE- AND TWO-FAMILY DWELLINGS, GROUP R-3 AND R-4 BUILDINGS AND TOWNHOUSES

AUTOMATIC SPRINKLER SYSTEM (Design Standard)	MINIMUM FIRE-FLOW (gallons per minute)	FLOW DURATION (hours)
No automatic sprinkler system	Value in Table B105.1(2)	Duration in Table B105.1(2)
Section 903.3.1.1 of the International Fire Code	25% of the value in Table B105.1(2) ^a	Duration in Table B105.1(2) at the reduced flow rate
Section 903.3.1.2 of the International Fire Code	25% of the value in Table B105.1(2) ^b	Duration in Table B105.1(2) at the reduced flow rate

For SI: 1 gallon per minute = 3.785 L/m.

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a. Types of construction are based on the International Building Code.

b. Measured at 20 psi residual pressure.

a. The reduced fire-flow shall be not less than 1,000 gallons per minute.

b. The reduced fire-flow shall be not less than 1,500 gallons per minute.



B105.3 Water supply for buildings equipped with an automatic sprinkler system. For buildings equipped with an approved *automatic sprinkler system*, the water supply shall be capable of providing the greater of:

- 1. The *automatic sprinkler system* demand, including hose stream allowance.
- 2. The required fire-flow.

SECTION B106 REFERENCED STANDARDS

ICC	IBC—15	International Building Code	B104.2,
ICC	IFC—15	International Fire Code	Tables B105.1(1) and B105.2
ICC	IWUIC—15	International Wildland- Urban Interface Code	B103.3
ICC	IRC—15	International Residential Code	Table B105.1(1)
NFPA	1142—12	Standard on Water Supplies for Suburban and Rural Fire Fighting	B103.3









APPENDIX C

FIRE HYDRANT LOCATIONS AND DISTRIBUTION

The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.

SECTION C101 GENERAL

C101.1 Scope. In addition to the requirements of Section 507.5.1 of the *International Fire Code*, fire hydrants shall be provided in accordance with this appendix for the protection of buildings, or portions of buildings, hereafter constructed or moved into the jurisdiction.

SECTION C102 NUMBER OF FIRE HYDRANTS

C102.1 Minimum number of fire hydrants for a building. The number of fire hydrants available to a building shall be not less than the minimum specified in Table C102.1.

SECTION C103 FIRE HYDRANT SPACING

C103.1 Hydrant spacing. Fire apparatus access roads and public streets providing required access to buildings in accordance with Section 503 of the *International Fire Code* shall be provided with one or more fire hydrants, as determined by Section C102.1. Where more than one fire hydrant is

required, the distance between required fire hydrants shall be in accordance with Sections C103.2 and C103.3.

C103.2 Average spacing. The average spacing between fire hydrants shall be in accordance with Table C102.1.

Exception: The average spacing shall be permitted to be increased by 10 percent where existing fire hydrants provide all or a portion of the required number of fire hydrants.

C103.3 Maximum spacing. The maximum spacing between fire hydrants shall be in accordance with Table C102.1.

SECTION C104 CONSIDERATION OF EXISTING FIRE HYDRANTS

C104.1 Existing fire hydrants. Existing fire hydrants on public streets are allowed to be considered as available to meet the requirements of Sections C102 and C103. Existing fire hydrants on adjacent properties are allowed to be considered as available to meet the requirements of Sections C102 and C103 provided that a fire apparatus access road extends between properties and that an easement is established to prevent obstruction of such roads.

TABLE C102.1 REQUIRED NUMBER AND SPACING OF FIRE HYDRANTS

FIRE-FLOW REQUIREMENT (gpm)	MINIMUM NUMBER OF HYDRANTS	AVERAGE SPACING BETWEEN HYDRANTS ^{a, b, c, f, g} (feet)	MAXIMUM DISTANCE FROM ANY POINT ON STREET OR ROAD FRONTAGE TO A HYDRANT ^{d, f, g}
1,750 or less	1	500	250
2,000-2,250	2	450	225
2,500	3	450	225
3,000	3	400	225
3,500-4,000	4	350	210
4,500-5,000	5	300	180
5,500	6	300	180
6,000	6	250	150
6,500-7,000	7	250	150
7,500 or more	8 or more ^e	200	120

For SI: 1 foot = 304.8 mm, 1 gallon per minute = 3.785 L/m.

- a. Reduce by 100 feet for dead-end streets or roads.
- b. Where streets are provided with median dividers that cannot be crossed by fire fighters pulling hose lines, or where arterial streets are provided with four or more traffic lanes and have a traffic count of more than 30,000 vehicles per day, hydrant spacing shall average 500 feet on each side of the street and be arranged on an alternating basis.
- c. Where new water mains are extended along streets where hydrants are not needed for protection of structures or similar fire problems, fire hydrants shall be provided at spacing not to exceed 1,000 feet to provide for transportation hazards.
- d. Reduce by 50 feet for dead-end streets or roads.
- e. One hydrant for each 1,000 gallons per minute or fraction thereof.
- f. A 50-percent spacing increase shall be permitted where the building is equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1 of the International Fire Code.
- g. A 25-percent spacing increase shall be permitted where the building is equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.2 or 903.3.1.3 of the International Fire Code or Section P2904 of the International Residential Code.



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SECTION C105 REFERENCED STANDARDS

C101.1, C103.1, Table C102.1 ICC IFC—15 International Fire Code

Table C102.1 ICC IRC—15 International Residential Code







FIRE APPARATUS ACCESS ROADS

The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.

SECTION D101 GENERAL

D101.1 Scope. Fire apparatus access roads shall be in accordance with this appendix and all other applicable requirements of the *International Fire Code*.

SECTION D102 REQUIRED ACCESS

D102.1 Access and loading. Facilities, buildings or portions of buildings hereafter constructed shall be accessible to fire department apparatus by way of an *approved* fire apparatus access road with an asphalt, concrete or other *approved* driving surface capable of supporting the imposed load of fire apparatus weighing at least 75,000 pounds (34 050 kg).

SECTION D103 MINIMUM SPECIFICATIONS

D103.1 Access road width with a hydrant. Where a fire hydrant is located on a fire apparatus access road, the minimum road width shall be 26 feet (7925 mm), exclusive of shoulders (see Figure D103.1).

D103.2 Grade. Fire apparatus access roads shall not exceed 10 percent in grade.

Exception: Grades steeper than 10 percent as *approved* by the fire chief.

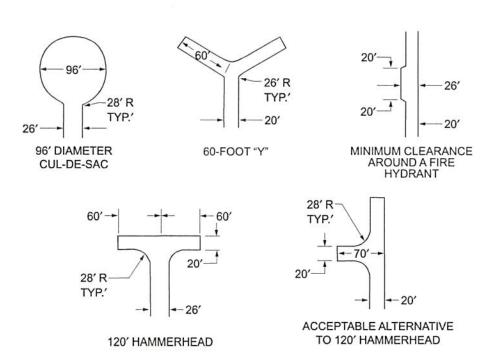
D103.3 Turning radius. The minimum turning radius shall be determined by the *fire code official*.

D103.4 Dead ends. Dead-end fire apparatus access roads in excess of 150 feet (45 720 mm) shall be provided with width and turnaround provisions in accordance with Table D103.4.

TABLE D103.4 REQUIREMENTS FOR DEAD-END FIRE APPARATUS ACCESS ROADS

LENGTH (feet)	WIDTH (feet)	TURNAROUNDS REQUIRED
0-150	20	None required
151-500	20	120-foot Hammerhead, 60-foot "Y" or 96-foot diameter cul-de-sac in accor- dance with Figure D103.1
501-750	26	120-foot Hammerhead, 60-foot "Y" or 96-foot diameter cul-de-sac in accor- dance with Figure D103.1
Over 750		Special approval required

For SI: 1 foot = 304.8 mm.



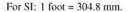


FIGURE D103.1
DEAD-END FIRE APPARATUS ACCESS ROAD TURNAROUND

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D103.5 Fire apparatus access road gates. Gates securing the fire apparatus access roads shall comply with all of the following criteria:

- 1. Where a single gate is provided, the gate width shall be not less than 20 feet (6096 mm). Where a fire apparatus road consists of a divided roadway, the gate width shall be not less than 12 feet (3658 mm).
- 2. Gates shall be of the swinging or sliding type.
- 3. Construction of gates shall be of materials that allow manual operation by one person.
- Gate components shall be maintained in an operative condition at all times and replaced or repaired when defective.
- Electric gates shall be equipped with a means of opening the gate by fire department personnel for emergency access. Emergency opening devices shall be approved by the fire code official.
- Methods of locking shall be submitted for approval by the fire code official.
- Electric gate operators, where provided, shall be *listed* in accordance with UL 325.
- Gates intended for automatic operation shall be designed, constructed and installed to comply with the requirements of ASTM F2200.

D103.6 Signs. Where required by the *fire code official*, fire apparatus access roads shall be marked with permanent NO PARKING—FIRE LANE signs complying with Figure D103.6. Signs shall have a minimum dimension of 12 inches (305 mm) wide by 18 inches (457 mm) high and have red letters on a white reflective background. Signs shall be posted on one or both sides of the fire apparatus road as required by Section D103.6.1 or D103.6.2.

SIGN TYPE "A"

SIGN TYPE "C"

SIGN TYPE "D"

NO
PARKING
FIRE LANE
FIRE LANE

18"

12"

12"

12"

12"

FIGURE D103.6 FIRE LANE SIGNS

D103.6.1 Roads 20 to 26 feet in width. Fire lane signs as specified in Section D103.6 shall be posted on both sides of fire apparatus access roads that are 20 to 26 feet wide (6096 to 7925 mm).

D103.6.2 Roads more than 26 feet in width. Fire lane signs as specified in Section D103.6 shall be posted on one

side of fire apparatus access roads more than 26 feet wide (7925 mm) and less than 32 feet wide (9754 mm).



SECTION D104 COMMERCIAL AND INDUSTRIAL DEVELOPMENTS

D104.1 Buildings exceeding three stories or 30 feet in height. Buildings or facilities exceeding 30 feet (9144 mm) or three stories in height shall have at least two means of fire apparatus access for each structure.

D104.2 Buildings exceeding 62,000 square feet in area. Buildings or facilities having a gross *building area* of more than 62,000 square feet (5760 m²) shall be provided with two separate and *approved* fire apparatus access roads.

Exception: Projects having a gross *building area* of up to 124,000 square feet (11 520 m²) that have a single *approved* fire apparatus access road when all buildings are equipped throughout with *approved automatic sprinkler systems*.

D104.3 Remoteness. Where two fire apparatus access roads are required, they shall be placed a distance apart equal to not less than one half of the length of the maximum overall diagonal dimension of the lot or area to be served, measured in a straight line between accesses.

SECTION D105 AERIAL FIRE APPARATUS ACCESS ROADS

D105.1 Where required. Where the vertical distance between the grade plane and the highest roof surface exceeds 30 feet (9144 mm), approved aerial fire apparatus access roads shall be provided. For purposes of this section, the highest roof surface shall be determined by measurement to the eave of a pitched roof, the intersection of the roof to the exterior wall, or the top of parapet walls, whichever is greater.

D105.2 Width. Aerial fire apparatus access roads shall have a minimum unobstructed width of 26 feet (7925 mm), exclusive of shoulders, in the immediate vicinity of the building or portion thereof.

D105.3 Proximity to building. At least one of the required access routes meeting this condition shall be located within a minimum of 15 feet (4572 mm) and a maximum of 30 feet (9144 mm) from the building, and shall be positioned parallel to one entire side of the building. The side of the building on which the aerial fire apparatus access road is positioned shall be approved by the *fire code official*.

D105.4 Obstructions. Overhead utility and power lines shall not be located over the aerial fire apparatus access road or between the aerial fire apparatus road and the building. Other obstructions shall be permitted to be placed with the approval of the *fire code official*.



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SECTION D106 MULTIPLE-FAMILY RESIDENTIAL DEVELOPMENTS

D106.1 Projects having more than 100 dwelling units. Multiple-family residential projects having more than 100 *dwelling units* shall be equipped throughout with two separate and *approved* fire apparatus access roads.

Exception: Projects having up to 200 dwelling units may have a single approved fire apparatus access road when all buildings, including nonresidential occupancies, are equipped throughout with approved automatic sprinkler systems installed in accordance with Section 903.3.1.1 or 903.3.1.2.

D106.2 Projects having more than 200 dwelling units. Multiple-family residential projects having more than 200 dwelling units shall be provided with two separate and approved fire apparatus access roads regardless of whether they are equipped with an approved automatic sprinkler system.

D106.3 Remoteness. Where two fire apparatus access roads are required, they shall be placed a distance apart equal to not less than one-half of the length of the maximum overall diagonal dimension of the property or area to be served, measured in a straight line between accesses.

SECTION D107 ONE- OR TWO-FAMILY RESIDENTIAL DEVELOPMENTS

D107.1 One- or two-family dwelling residential developments. Developments of one- or two-family dwellings where the number of *dwelling units* exceeds 30 shall be provided with two separate and *approved* fire apparatus access roads.

Exceptions:

- Where there are more than 30 dwelling units on a single public or private fire apparatus access road and all dwelling units are equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1, 903.3.1.2 or 903.3.1.3 of the International Fire Code, access from two directions shall not be required.
- The number of dwelling units on a single fire apparatus access road shall not be increased unless fire apparatus access roads will connect with future development, as determined by the fire code official.

D107.2 Remoteness. Where two fire apparatus access roads are required, they shall be placed a distance apart equal to not less than one-half of the length of the maximum overall diagonal dimension of the property or area to be served, measured in a straight line between accesses.

SECTION D108 REFERENCED STANDARDS

ASTM	F2200—13	Standard Specification for Automated Vehicular Gate	
		Construction	D103.5
ICC	IFC—15	International Fire Code	D101.1, D107.1
UL	325—02	Door, Drapery, Gate, Louver, and Window Operators and Systems, with Revisions	
		through June 2013	D103.5







APPENDIX E

HAZARD CATEGORIES

This appendix is for information purposes and is not intended for adoption.

SECTION E101 GENERAL

E101.1 Scope. This appendix provides information, explanations and examples to illustrate and clarify the hazard categories contained in Chapter 50 of the *International Fire Code*. The hazard categories are based upon the DOL 29 CFR. Where numerical classifications are included, they are in accordance with nationally recognized standards.

This appendix should not be used as the sole means of hazardous materials classification.

SECTION E102 HAZARD CATEGORIES

E102.1 Physical hazards. Materials classified in this section pose a *physical hazard*.

E102.1.1 Explosives and blasting agents. The current UN/DOT classification system recognized by international authorities, the Department of Defense and others classifies all explosives as Class 1 materials. They are then divided into six separate divisions to indicate their relative hazard. There is not a direct correlation between the designations used by the old DOT system and those used by the current system nor is there correlation with the system (high and low) established by the Bureau of Alcohol, Tobacco, Firearms and Explosives (BATF). Table 5604.3 of the International Fire Code provides some guidance with regard to the current categories and their relationship to the old categories. Some items may appear in more than one division, depending on factors such as the degree of confinement or separation, by type of packaging, storage configuration or state of assembly.

In order to determine the level of hazard presented by explosive materials, testing to establish quantitatively their explosive nature is required. There are numerous test methods that have been used to establish the character of an explosive material. Standardized tests, required for finished goods containing explosives or explosive materials in a packaged form suitable for shipment or storage, have been established by UN/DOT and BATF. However, these tests do not consider key elements that should be examined in a manufacturing situation. In manufacturing operations, the condition and/or the state of a material may vary within the process. The in-process material classification and classification requirements for materials used in the manufacturing process may be different from the classification of the same material where found in finished goods depending on the stage of the process in which the material is found. A classification methodology must be used that recognizes the hazards commensurate with the application to the variable physical conditions as well as potential variations of physical character and type of *explosive* under consideration.

Test methods or guidelines for hazard classification of energetic materials used for in-process operations shall be approved by the fire code official. Test methods used shall be DOD, BATF, UN/DOT or other approved criteria. The results of such testing shall become a portion of the files of the jurisdiction and be included as an independent section of any Hazardous Materials Management Plan (HMMP) required by Section 5605.2.1 of the International Fire Code. Also see Section 104.7.2 of the International Fire Code.

Examples of materials in various Divisions are as follows:

- Division 1.1 (High Explosives). Consists of explosives that have a mass explosion hazard. A mass explosion is one that affects almost the entire pile of material instantaneously. Includes substances that, where tested in accordance with approved methods, can be caused to detonate by means of a blasting cap where unconfined or will transition from deflagration to a detonation where confined or unconfined. Examples: dynamite, TNT, nitroglycerine, C-3, HMX, RDX, encased explosives, military ammunition.
- 2. Division 1.2 (Low *Explosives*). Consists of *explosives* that have a projection hazard, but not a mass explosion hazard. Examples: nondetonating encased *explosives*, military ammunition and the like.
- 3. Division 1.3 (Low Explosives). Consists of explosives that have a fire hazard and either a minor blast hazard or a minor projection hazard or both, but not a mass explosion hazard. The major hazard is radiant heat or violent burning, or both. Can be deflagrated where confined. Examples: smokeless powder, propellant explosives, display fireworks.
- 4. Division 1.4. Consists of explosives that pose a minor explosion hazard. The explosive effects are largely confined to the package and no projection of fragments of appreciable size or range is expected. An internal fire must not cause virtually instantaneous explosion of almost the entire contents of the package. Examples: squibs (nondetonating igniters), explosive actuators, explosive trains (low-level detonating cord).
- Division 1.5 (Blasting Agents). Consists of very insensitive explosives. This division comprises substances that have a mass explosion hazard, but are so

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insensitive that there is very little probability of initiation or of transition from burning to detonation under normal conditions of transport. Materials are not cap sensitive; however, they are mass detonating where provided with sufficient input. Examples: oxidizer and liquid fuel slurry mixtures and gels, ammonium nitrate combined with fuel oil.

6. Division 1.6. Consists of extremely insensitive articles that do not have a mass explosive hazard. This division comprises articles that contain only extremely insensitive detonating substances and that demonstrate a negligible probability of accidental initiation or propagation. Although this category of materials has been defined, the primary application is currently limited to military uses. Examples: Low vulnerability military weapons.

Explosives in each division are assigned a compatibility group letter by the Associate Administrator for Hazardous Materials Safety (DOT) based on criteria specified by DOTn 49 CFR. Compatibility group letters are used to specify the controls for the transportation and storage related to various materials to prevent an increase in hazard that might result if certain types of explosives were stored or transported together. Altogether, there are 35 possible classification codes for explosives, e.g., 1.1A, 1.3C, 1.4S, etc.

E102.1.2 Compressed gases. Examples include:

 Flammable: acetylene, carbon monoxide, ethane, ethylene, hydrogen, methane. Ammonia will ignite and burn although its flammable range is too narrow for it to fit the definition of "Flammable gas."

For binary mixtures where the hazardous component is diluted with a nonflammable gas, the mixture shall be categorized in accordance with CGA P-23.

- Oxidizing: oxygen, ozone, oxides of nitrogen, chlorine and fluorine. Chlorine and fluorine do not contain oxygen but reaction with flammables is similar to that of oxygen.
- 3. Corrosive: ammonia, hydrogen chloride, fluorine.
- Highly toxic: arsine, cyanogen, fluorine, germane, hydrogen cyanide, nitric oxide, phosphine, hydrogen selenide, stibine.
- Toxic: chlorine, hydrogen fluoride, hydrogen sulfide, phosgene, silicon tetrafluoride.
- Inert (chemically unreactive): argon, helium, krypton, neon, nitrogen, xenon.
- Pyrophoric: diborane, dichloroborane, phosphine, silane.
- Unstable (reactive): butadiene (unstabilized), ethylene oxide, vinyl chloride.

E102.1.3 Flammable and combustible liquids. Examples include:

1. Flammable liquids.

Class IA liquids shall include those having *flash* points below 73°F (23°C) and having a boiling point at or below 100°F (38°C).

Class IB liquids shall include those having *flash* points below 73°F (23°C) and having a boiling point at or above 100°F (38°C).

Class IC liquids shall include those having *flash* points at or above 73°F (23°C) and below 100°F (38°C).

2. Combustible liquids.

Class II liquids shall include those having *flash* points at or above 100°F (38°C) and below 140°F (60°C).

Class IIIA liquids shall include those having *flash* points at or above 140°F (60°C) and below 200°F (93°C).

Class IIIB liquids shall include those liquids having flash points at or above 200°F (93°C).

E102.1.4 Flammable solids. Examples include:

- Organic solids: camphor, cellulose nitrate, naphthalene.
- Inorganic solids: decaborane, lithium amide, phosphorous heptasulfide, phosphorous sesquisulfide, potassium sulfide, anhydrous sodium sulfide, sulfur.
- 3. Combustible metals (except dusts and powders): cesium, magnesium, zirconium.

E102.1.5 Combustible dusts and powders. Finely divided solids that could be dispersed in air as a dust cloud: wood sawdust, plastics, coal, flour, powdered metals (few exceptions).

E102.1.6 Combustible fibers. See Section 5202.1.

E102.1.7 Oxidizers. Examples include:

- 1. Gases: oxygen, ozone, oxides of nitrogen, fluorine and chlorine (reaction with flammables is similar to that of oxygen).
- 2. Liquids: bromine, hydrogen peroxide, nitric acid, perchloric acid, sulfuric acid.
- Solids: chlorates, chromates, chromic acid, iodine, nitrates, nitrites, perchlorates, peroxides.

E102.1.7.1 Examples of liquid and solid oxidizers according to hazard.

Class 4: ammonium perchlorate (particle size greater than 15 microns), ammonium permanganate, guanidine nitrate, hydrogen peroxide solutions more than 91 percent by weight, perchloric acid solutions more than 72.5 percent by weight, potassium superoxide, tetranitromethane.

Class 3: ammonium dichromate, calcium hypochlorite (over 50 percent by weight), chloric acid (10 percent maximum concentration), hydrogen peroxide solutions (greater than 52 percent up to 91 percent), mono-(trichloro)-tetra-(monopotassium di-



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chloro)-penta-s-triazinetrione, nitric acid, (fuming more than 86 percent concentration), perchloric acid solutions (60 percent to 72 percent by weight), potassium bromate, potassium chlorate, potassium dichloro-s-triazinetrione (potassium dichloro-isocyanurate), potassium perchlorate (99 percent), potassium permanganate (greater than 97.5 percent), sodium bromate, sodium chlorate, sodium chlorite (over 40 percent by weight) and sodium dichloro-striazinetrione anhydrous (sodium dichloro-isocyanurate anhydrous).

Class 2: barium bromate, barium chlorate, barium hypochlorite, barium perchlorate, barium permanganate, 1-bromo-3-chloro-5, 5-dimethylhydantoin, calchlorate, calcium chlorite, hypochlorite (50 percent or less by weight), calcium perchlorate, calcium permanganate, calcium peroxide (75 percent), chromium trioxide (chromic acid), copper chlorate, halane (1, 3-di-chloro-5, 5-dimethylhydantoin), hydrogen peroxide (greater than 27.5 percent up to 52 percent), lead perchlorate, lithium chlorate, lithium hypochlorite (more than 39 percent available chlorine), lithium perchlorate, magnesium bromate, magnesium chlorate, magnesium perchlorate, mercurous chlorate, nitric acid (more than 40 percent but less than 86 percent), perchloric acid solutions (more than 50 percent but less than 60 percent), potassium peroxide, potassium superoxide, silver peroxide, sodium chlorite (40 percent or less by weight), sodium perchlorate, sodium perchlorate monohydrate, sodium permanganate, sodium peroxide, sodium persulfate (99 percent), strontium chlorate, strontium perchlorate, thallium chlorate, urea hydrogen peroxide, zinc bromate, zinc chlorate and zinc permanganate.

Class 1: all inorganic nitrates (unless otherwise classified), all inorganic nitrites (unless otherwise classified), ammonium persulfate, barium peroxide, hydrogen peroxide solutions (greater than 8 percent up to 27.5 percent), lead dioxide, lithium hypochlorite (39 percent or less available chlorine), lithium peroxide, magnesium peroxide, manganese dioxide, nitric acid (40 percent concentration or less), perchloric acid solutions (less than 50 percent by weight), potassium dichromate, potassium monopersulfate (45 percent KHSO₅ or 90 percent triple salt), potassium percarbonate, potassium persulfate, sodium carbonate peroxide, sodium dichloro-s-triazinetrione dihydrate, sodium dichromate, sodium perborate (anhydrous), sodium perborate monohydrate, sodium perborate tetra-hydrate, sodium percarbonate, strontium peroxide, trichloro-striazinetrione (trichloroisocyanuric acid) and zinc

E102.1.8 Organic peroxides. Organic peroxides contain the double oxygen or peroxy (-o-o) group. Some are flammable compounds and subject to explosive decomposition. They are available as:

1. Liquids.

- 2. Pastes.
- 3. Solids (usually finely divided powders).

E102.1.8.1 Classification of organic peroxides according to hazard.

Unclassified: Unclassified organic peroxides are capable of *detonation* and are regulated in accordance with Chapter 56 of the *International Fire Code*.

Class I: acetyl cyclohexane sulfonyl 60-65 percent concentration by weight, fulfonyl peroxide, benzoyl peroxide over 98 percent concentration, t-butyl hydroperoxide 90 percent, t-butyl peroxyacetate 75 percent, t-butyl peroxysisopropylcarbonate 92 percent, diisopropyl peroxydicarbonate 100 percent, din-propyl peroxydicarbonate 98 percent, and din-propyl peroxydicarbonate 85 percent.

Class II: acetyl peroxide 25 percent, t-butyl hydroperoxide 70 percent (with DTBP and t-BuOH diluents), t-butyl peroxybenzoate 98 percent, t-butyl peroxy-2-ethylhexanoate 97 percent, t-butyl peroxyisobutyrate 75 percent, t-butyl peroxyisopropyl-carbonate 75 percent, t-butyl peroxypivalate 75 percent, dybenzoyl peroxydicarbonate 85 percent, di-sec-butyl peroxydicarbonate 98 percent, di-sec-butyl peroxydicarbonate 75 percent, 1,1-di-(t-butylperoxy)-3,5,5-trimethyecyclohexane 95 percent, di-(2-ethythexyl) peroxydicarbonate 97 percent, 2,5-dymethyl-2-5 di (benzoylperoxy) hexane 92 percent, and peroxyacetic acid 43 percent.

Class III: acetyl cyclohexane sulfonal peroxide 29 percent, benzoyl peroxide 78 percent, benzoyl peroxide paste 55 percent, benzoyl peroxide paste 50 percent peroxide/50 percent butylbenzylphthalate diluent, cumene hydroperoxide 86 percent, di-(4butylcyclohexyl) peroxydicarbonate 98 percent, tbutyl peroxy-2-ethylhexanoate 97 percent, t-butyl peroxyneodecanoate 75 percent, decanoyl peroxide 98.5 percent, di-t-butyl peroxide 99 percent, 1,1-di-(t-butylperoxy)3,5,5-trimethylcyclohexane 75 percent, 2,4-dichlorobenzoyl peroxide 50 percent, diisopropyl peroxydicarbonate 30 percent, 2,-5-dimethyl-2,5-di-(2-ethylhexanolyperoxy)-hexane 90 percent, 2,5-dimethyl-2,5-di-(t-butylperoxy) hexane 90 percent and methyl ethyl ketone peroxide 9 percent active oxygen diluted in dimethyl phthalate.

Class IV: benzoyl peroxide 70 percent, benzoyl peroxide paste 50 percent peroxide/15 percent water/35 percent butylphthalate diluent, benzoyl peroxide slurry 40 percent, benzoyl peroxide powder 35 percent, t-butyl hydroperoxide 70 percent, (with water diluent), t-butyl peroxy-2-ethylhexanoate 50 percent, decumyl peroxide 98 percent, di-(2-ethylhexal) peroxydicarbonate 40 percent, laurel peroxide 98 percent, p-methane hydroperoxide 52.5 percent, methyl ethyl ketone peroxide 5.5 percent active oxygen and methyl ethyl ketone peroxide 9 percent active oxygen diluted in water and glycols.

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Class V: benzoyl peroxide 35 percent, 1,1-ditbutyl peroxy 3,5,5-trimethylcyclohexane 40 percent, 2,5-di-(t-butyl peroxy) hexane 47 percent and 2,4-pentanedione peroxide 4 percent active oxygen.

E102.1.9 Pyrophoric materials. Examples include:

- 1. Gases: diborane, phosphine, silane.
- Liquids: diethylaluminum chloride, di-ethylberyllium, diethylphosphine, diethylzinc, dimethylarsine, triethylaluminum etherate, tri-ethylbismuthine, triethylboron, trimethylaluminum, trimethylgallium.
- Solids: cesium, hafnium, lithium, white or yellow phosphorous, plutonium, potassium, rubidium, sodium, thorium.

E102.1.10 Unstable (reactive) materials. Examples include:

Class 4: acetyl peroxide, dibutyl peroxide, dinitrobenzene, ethyl nitrate, peroxyacetic acid and picric acid (dry) trinitrobenzene.

Class 3: hydrogen peroxide (greater than 52 percent), hydroxylamine, nitromethane, paranitroaniline, perchloric acid and tetrafluoroethylene monomer.

Class 2: acrolein, acrylic acid, hydrazine, methacrylic acid, sodium perchlorate, styrene and vinyl acetate.

Class 1: acetic acid, hydrogen peroxide 35 percent to 52 percent, paraldehyde and tetrahydrofuran.

E102.1.11 Water-reactive materials. Examples include:

Class 3: aluminum alkyls such as triethylaluminum, isobutylaluminum and trimethylaluminum; bromine pentafluoride, bromine trifluoride, chlorodiethylaluminium and diethylzinc.

Class 2: calcium carbide, calcium metal, cyanogen bromide, lithium hydride, methyldichlorosilane, potassium metal, potassium peroxide, sodium metal, sodium peroxide, sulfuric acid and trichlorosilane.

Class 1: acetic anhydride, sodium hydroxide, sulfur monochloride and titanium tetrachloride.

E102.1.12 Cryogenic fluids. The cryogenics listed will exist as *compressed gases* where they are stored at ambient temperatures.

- Flammable: carbon monoxide, deuterium (heavy hydrogen), ethylene, hydrogen, methane.
- 2. Oxidizing: fluorine, nitric oxide, oxygen.
- 3. Corrosive: fluorine, nitric oxide.
- Inert (chemically unreactive): argon, helium, krypton, neon, nitrogen, xenon.
- 5. Highly toxic: fluorine, nitric oxide.

E102.2 Health hazards. Materials classified in this section pose a *health hazard*.

E102.2.1 Highly toxic materials. Examples include:

Gases: arsine, cyanogen, diborane, fluorine, germane, hydrogen cyanide, nitric oxide, nitrogen dioxide, ozone, phosphine, hydrogen selenide, stibine.

- Liquids: acrolein, acrylic acid, 2-chloroethanol (ethylene chlorohydrin), hydrazine, hydrocyanic acid, 2-methylaziridine (propylenimine), 2-methyl-acetonitrile (acetone cyanohydrin), methyl ester isocyanic acid (methyl isocyanate), nicotine, tetranitromethane and tetraethylstannane (tetraethyltin).
- Solids: (aceto) phenylmercury (phenyl mercuric acetate), 4-aminopyridine, arsenic pentoxide, arsenic trioxide, calcium cyanide, 2-chloroacetophenone, aflatoxin B, decaborane(14), mercury (II) bromide (mercuric bromide), mercury (II) chloride (corrosive mercury chloride), pentachlorophenol, methyl parathion, phosphorus (white) and sodium azide.

E102.2.2 Toxic materials. Examples include:

- Gases: boron trichloride, boron trifluoride, chlorine, chlorine trifluoride, hydrogen fluoride, hydrogen sulfide, phosgene, silicon tetrafluoride.
- Liquids: acrylonitrile, allyl alcohol, alpha-chlorotoluene, aniline, 1-chloro-2,3-epoxypropane, chloroformic acid (allyl ester), 3-chloropropene (allyl chloride), o-cresol, crotonaldehyde, dibromomethane, diisopropylamine, diethyl ester sulfuric acid, dimethyl ester sulfuric acid, 2-furaldehyde (furfural), furfural alcohol, phosphorus chloride, phosphoryl chloride (phosphorus oxychloride) and thionyl chloride.
- 3. Solids: acrylamide, barium chloride, barium (II) nitrate, benzidine, p-benzoquinone, beryllium chloride, cadmium chloride, cadmium oxide, chloroacetic acid, chlorophenylmercury (phenyl mercuric chloride), chromium (VI) oxide (chromic acid, solid), 2,4-dinitrotoluene, hydroquinone, mercury chloride (calomel), mercury (II) sulfate (mercuric sulfate), osmium tetroxide, oxalic acid, phenol, P-phenylenediamine, phenylhydrazine, 4-phenylmorpholine, phosphorus sulfide, potassium fluoride, potassium hydroxide, selenium (IV) disulfide and sodium fluoride.

E102.2.3 Corrosives. Examples include:

- Acids: Examples: chromic, formic, hydrochloric (muriatic) greater than 15 percent, hydrofluoric, nitric (greater than 6 percent, perchloric, sulfuric (4 percent or more).
- Bases (alkalis): hydroxides-ammonium (greater than 10 percent), calcium, potassium (greater than 1 percent), sodium (greater than 1 percent); certain carbonates-potassium.
- 3. Other *corrosives*: bromine, chlorine, fluorine, iodine, ammonia.

Note: Corrosives that are oxidizers, e.g., nitric acid, chlorine, fluorine; or are compressed gases, e.g., ammonia, chlorine, fluorine; or are water-reactive, e.g., concentrated sulfuric acid, sodium hydroxide, are physical hazards in addition to being health hazards.



SECTION E103 EVALUATION OF HAZARDS

E103.1 Degree of hazard. The degree of hazard present depends on many variables that should be considered individually and in combination. Some of these variables are as shown in Sections E103.1.1 through E103.1.5.

E103.1.1 Chemical properties of the material. Chemical properties of the material determine self reactions and reactions that could occur with other materials. Generally, materials within subdivisions of hazard categories will exhibit similar chemical properties. However, materials with similar chemical properties could pose very different hazards. Each individual material should be researched to determine its hazardous properties and then considered in relation to other materials that it might contact and the surrounding environment.

E103.1.2 Physical properties of the material. Physical properties, such as whether a material is a solid, liquid or gas at ordinary temperatures and pressures, considered along with chemical properties will determine requirements for containment of the material. Specific gravity (weight of a liquid compared to water) and vapor density (weight of a gas compared to air) are both physical properties that are important in evaluating the hazards of a material.

E103.1.3 Amount and concentration of the material. The amount of material present and its concentration must be considered along with physical and chemical properties to determine the magnitude of the hazard. Hydrogen peroxide, for example, is used as an antiseptic and a hair bleach in low concentrations (approximately 8 percent in water solution). Over 8 percent, hydrogen peroxide is classed as an oxidizer and is toxic. Above 90 percent, it is a Class 4 oxidizer "that can undergo an explosive reaction when catalyzed or exposed to heat, shock or friction," a definition that incidentally also places hydrogen peroxide over 90-percent concentration in the unstable (reactive) category. Small amounts at high concentrations could present a greater hazard than large amounts at low concentrations.

E103.1.3.1 Mixtures. Gases—toxic and highly toxic gases include those gases that have an LC50 of 2,000 parts per million (ppm) or less when rats are exposed for a period of 1 hour or less. To maintain consistency with the definitions for these materials, exposure data for periods other than 1 hour must be normalized to 1 hour. To classify mixtures of compressed gases that contain one or more toxic or highly toxic components, the LC₅₀ of the mixture must be determined. Mixtures that contain only two components are binary mixtures. Those that contain more than two components are multicomponent mixtures. Where two or more hazardous substances (components) having an LC₅₀ below 2,000 ppm are present in a mixture, their combined effect, rather than that of the individual substance components, must be considered. In the absence of information to the contrary, the effects of the hazards present must be considered as additive. Exceptions to the above rule could be made when there is a good reason to believe

that the principal effects of the different harmful substances (components) are not additive.

For binary mixtures where the hazardous component is diluted with a nontoxic gas such as an inert gas, the LC₅₀ of the mixture is estimated by use of the methodology contained in CGA P-20. The hazard zones specified in CGA P-20 are applicable for DOTn purposes and shall not be used for hazard classification.

E103.1.4 Actual use, activity or process involving the material. The definition of handling, storage and use in closed systems refers to materials in packages or containers. Dispensing and use in open containers or systems describes situations where a material is exposed to ambient conditions or vapors are liberated to the atmosphere. Dispensing and use in open systems, then, are generally more hazardous situations than handling, storage or use in closed systems. The actual use or process could include heating, electric or other sparks, catalytic or reactive materials and many other factors that could affect the hazard and must therefore be thoroughly analyzed.

E103.1.5 Surrounding conditions. Conditions such as other materials or processes in the area, type of construction of the structure, fire protection features (e.g., *fire walls*, sprinkler systems, alarms, etc.), occupancy (use) of adjoining areas, normal temperatures, exposure to weather, etc., must be taken into account in evaluating the hazard.

E103.2 Evaluation questions. The following are sample evaluation questions:

- What is the material? Correct identification is important; exact spelling is vital. Check labels, MSDS, ask responsible persons, etc.
- 2. What are the concentration and strength?
- What is the physical form of the material? Liquids, gases and finely divided solids have differing requirements for spill and leak control and containment.
- How much material is present? Consider in relation to permit amounts, maximum allowable quantity per control area (from Group H occupancy requirements), amounts that require detached storage and overall magnitude of the hazard.
- 5. What other materials (including furniture, equipment and building components) are close enough to interact with the material?
- 6. What are the likely reactions?
- 7. What is the activity involving the material?
- How does the activity impact the hazardous characteristics of the material? Consider vapors released or hazards otherwise exposed.
- What must the material be protected from? Consider other materials, temperature, shock, pressure, etc.
- 10. What effects of the material must people and the environment be protected from?
- 11. How can protection be accomplished? Consider:
 - 11.1. Proper containers and equipment.

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- 11.2. Separation by distance or construction.
- 11.3. Enclosure in cabinets or rooms.
- 11.4. Spill control, drainage and containment.
- 11.5. Control systems-ventilation, special electrical, detection and alarm, extinguishment, explosion venting, limit controls, exhaust scrubbers and excess flow control.
- 11.6. Administrative (operational) controls-signs, ignition source control, security, personnel training, established procedures, storage plans and emergency plans.

Evaluation of the hazard is a strongly subjective process; therefore, the person charged with this responsibility must gather as much relevant data as possible so that the decision will be objective and within the limits prescribed in laws, policies and standards.

It could be necessary to cause the responsible persons in charge to have tests made by qualified persons or testing laboratories to support contentions that a particular material or process is or is not hazardous. See Section 104.7.2 of the *International Fire Code*.

SECTION E104 REFERENCED STANDARDS

CGA (2009)	P-20—	Standard for Classification of Toxic Mixtures	E103.1.3.1
CGA (2008)	P-23—	Standard for Categorizing Gas Mixtures Containing Flammable and Nonflammable Components	E102.1.2
ICC	IFC—15	International Fire Code	E101.1, E102.1.1, E102.1.8.1, E103.2



APPENDIX F

HAZARD RANKING

The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.

SECTION F101 GENERAL

F101.1 Scope. Assignment of levels of hazards to be applied to specific hazard classes as required by NFPA 704 shall be in accordance with this appendix. The appendix is based on application of the degrees of hazard as defined in NFPA 704 arranged by hazard class as for specific categories defined in Chapter 2 of the *International Fire Code* and used throughout.

F101.2 General. The hazard rankings shown in Table F101.2 have been established by using guidelines found within NFPA 704. As noted in Section 4.2 of NFPA 704, there could be specific reasons to alter the degree of hazard assigned to a specific material; for example, ignition temperature, flammable range or susceptibility of a container to rupture by an internal combustion explosion or to metal failure while under pressure or because of heat from external fire. As a result, the degree of hazard assigned for the same material can vary when assessed by different people of equal competence.

The hazard rankings assigned to each class represent reasonable minimum hazard levels for a given class based on the use of criteria established by NFPA 704. Specific cases of use or storage may dictate the use of higher degrees of hazard in certain cases.

SECTION F102 REFERENCED STANDARDS

ICC	IFC—15	International Fire Code	F101.1
NFPA	704—12	Identification of the Hazards of Materials for Emergency Response	F101.1, F101.2

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TABLE F101.2
FIRE FIGHTER WARNING PLACARD DESIGNATIONS BASED ON HAZARD CLASSIFICATION CATEGORIES

HAZARD CATEGORY	DESIGNATION
Combustible liquid II	F2
Combustible liquid IIIA	F2
Combustible liquid IIIB	F1
Combustible dust	F4
Combustible fiber	F3
Cryogenic flammable	F4, H3
Cryogenic oxidizing	OX, H3
Explosive	R4
Flammable solid	F2
Flammable gas (gaseous)	F4
Flammable gas (liquefied)	F4
Flammable liquid IA	F4
Flammable liquid IB	F3
Flammable liquid IC	F3
Organic peroxide, UD	R4
Organic peroxide I	F4, R3
Organic peroxide II	F3, R3
Organic peroxide III	F2, R2
Organic peroxide IV	F1, R1
Organic peroxide V	None
Oxidizing gas (gaseous)	OX
Oxidizing gas (liquefied)	OX
Oxidizer 4	OX4
Oxidizer 3	OX3
Oxidizer 2	OX2
Oxidizer 1	OX1
Pyrophoric gases	F4
Pyrophoric solids, liquids	F3
Unstable reactive 4D	R4
Unstable reactive 3D	R4
Unstable reactive 3N	R2
Unstable reactive 2	R2
Unstable reactive 1	None
Water reactive 3	W3
Water reactive 2	W2
Corrosive	H3, COR
Toxic	НЗ
Highly toxic	H4

F-Flammable category.

R—Reactive category.

H—Health category.

W—Special hazard: water reactive.

OX—Special hazard: oxidizing properties.

COR—Corrosive.
UD—Unclassified detonable material.
4D—Class 4 detonable material.
3D—Class 3 detonable material.
3N—Class 3 nondetonable material.

APPENDIX G

CRYOGENIC FLUIDS—WEIGHT AND VOLUME EQUIVALENTS

This appendix is for information purposes and is not intended for adoption.

SECTION G101 GENERAL

G101.1 Scope. This appendix is used to convert from liquid to gas for *cryogenic fluids*.

G101.2 Conversion. Table G101.2 shall be used to determine the equivalent amounts of *cryogenic fluids* in either the liquid or gas phase.

G101.2.1 Use of the table. To use Table G101.2, read horizontally across the line of interest. For example, to determine the number of cubic feet of gas contained in 1.0 gallon (3.785 L) of liquid argon, find 1.000 in the column entitled "Volume of Liquid at Normal *Boiling Point.*" Reading across the line under the column entitled "Volume of Gas at NTP" (70°F and 1 atmosphere/14.7 psia), the value of 112.45 cubic feet (3.184 m³) is found.

G101.2.2 Other quantities. If other quantities are of interest, the numbers obtained can be multiplied or divided to obtain the quantity of interest. For example, to determine the number of cubic feet of argon gas contained in a volume of 1,000 gallons (3785 L) of liquid argon at its normal *boiling point*, multiply 112.45 by 1,000 to obtain 112,450 cubic feet (3184 m³).

TABLE G101.2
WEIGHT AND VOLUME EQUIVALENTS FOR COMMON CRYOGENIC FLUIDS

CRYOGENIC FLUID	WEIGHT OF L	IQUID OR GAS		UID AT NORMAL G POINT	VOLUME OF GAS AT NTP		
	Pounds	Kilograms	Liters	Gallons	Cubic feet	Cubic meters	
	1.000	0.454	0.326	0.086	9.67	0.274	
	2.205	1.000	0.718	0.190	21.32	0.604	
	3.072	1.393	1.000	0.264	29.71	0.841	
Argon	11.628	5.274	3.785	1.000	112.45	3.184	
	10.340	4.690	3.366	0.889	100.00	2.832	
	3.652	1.656	1.189	0.314	35.31	1.000	
	1.000	0.454	3.631	0.959	96.72	2.739	
	2.205	1.000	8.006	2.115	213.23	6.038	
	0.275	0.125	1.000	0.264	26.63	0.754	
Helium	1.042	0.473	3.785	1.000	100.82	2.855	
	1.034	0.469	3.754	0.992	100.00	2.832	
	0.365	0.166	1.326	0.350	35.31	1.000	
	1.000	0.454	6.409	1.693	191.96	5.436	
	2.205	1.000	14.130	3.733	423.20	11.984	
	0.156	0.071	1.000	0.264	29.95	0.848	
Hydrogen	0.591	0.268	3.785	1.000	113.37	3.210	
	0.521	0.236	3.339	0.882	100.00	2.832	
	0.184	0.083	1.179	0.311	35.31	1.000	
	1.000	0.454	0.397	0.105	12.00	0.342	
	2.205	1.000	0.876	0.231	26.62	0.754	
0	2.517	1.142	1.000	0.264	30.39	0.861	
Oxygen	9.527	4.321	3.785	1.000	115.05	3.250	
	8.281	3.756	3.290	0.869	100.00	2.832	
	2.924	1.327	1.162	0.307	35.31	1.000	
	1.000	0.454	0.561	0.148	13.80	0.391	
	2.205	1.000	1.237	0.327	30.43	0.862	
Nitrogan	1.782	0.808	1.000	0.264	24.60	0.697	
Nitrogen	6.746	3.060	3.785	1.000	93.11	2.637	
	7.245	3.286	4.065	1.074	100.00	2.832	
	2.558	1.160	1.436	0.379	35.31	1.000	
	1.000	0.454	1.052	0.278	22.968	0.650	
	2.205	1.000	2.320	0.613	50.646	1.434	
LNG ^a	0.951	0.431	1.000	0.264	21.812	0.618	
LING	3.600	1.633	3.785	1.000	82.62	2.340	
	4.356	1.976	4.580	1.210	100.00	2.832	
	11.501	5.217	1.616	0.427	35.31	1.000	

 $For \ SI: \ 1 \ pound = 0.454 \ kg, \ 1 \ gallon = 3.785 \ L, \ 1 \ cubic \ foot = 0.02832 \ m^3, \ ^{\circ}C = [(^{\circ}F)-32]/1.8, \ 1 \ pound \ per \ square \ inch \ atmosphere = 6.895 \ kPa.$

a. The values listed for liquefied natural gas (LNG) are "typical" values. LNG is a mixture of hydrocarbon gases, and no two LNG streams have exactly the same composition.

APPENDIX H

HAZARDOUS MATERIALS MANAGEMENT PLAN (HMMP) AND HAZARDOUS MATERIALS INVENTORY STATEMENT (HMIS) INSTRUCTIONS

The provisions contained in this appendix are adopted as part of this code.

SECTION H101 HMMP

H101.1 Part A (See Example Format in Figure 1).

- 1. Fill out items and sign the declaration.
- Part A of this section is required to be updated and submitted annually, or within 30 days of a process or management change.

H101.2 Part B-General Facility Description/Site Plan (See Example Format in Figure 2).

Provide a site plan on 8¹/₂ by 11 inch (215 mm by 279 mm) paper, showing the locations of all buildings, structures, outdoor chemical control or storage and use areas, parking lots, internal roads, storm and sanitary sewers, wells and adjacent property uses. Indicate the approximate scale, northern direction and date the drawing was completed.

H101.3 Part C-Facility Storage Map-Confidential Information (See Example Format in Figure 3).

- Provide a floor plan of each building identified on the site plan as containing hazardous materials on 8¹/₂-inch by 11-inch (215 mm by 279 mm) paper, identifying the northern direction, and showing the location of each storage and use area.
- Identify storage and use areas, including hazard waste storage areas.
- 3. Show the following:
 - 3.1. Accesses to each storage and use area.
 - 3.2. Location of emergency equipment.
 - 3.3. Location where liaison will meet emergency responders.
 - 3.4. Facility evacuation meeting point locations.
 - The general purpose of other areas within the building.
 - 3.6. Location of all aboveground and underground tanks to include sumps, vaults, below-grade treatment systems, piping, etc.
 - 3.7. Show hazard classes in each area.
 - Show locations of all Group H occupancies, control areas, and exterior storage and use areas.
 - 3.9. Show emergency exits.

SECTION H102 HMIS

H102.1 Inventory statement contents.

- HMIS Summary Report (see Example Format in Figure 4).
 - 1.1. Complete a summary report for each control area and Group H occupancy.
 - 1.2. The storage summary report includes the HMIS Inventory Report amounts in storage, useclosed and use-open conditions.
 - 1.3. Provide separate summary reports for storage, use-closed and use-open conditions.
 - 1.4. IBC/IFC Hazard Class.
 - Inventory Amount. [Solid (lb), Liquid (gal), Gas (cu ft, gal or lbs)].
 - 1.6. IBC/IFC Maximum Allowable Quantity per control area (MAQ). (If applicable, double MAQ for sprinkler protection and/or storage in cabinets. For wholesale and retail sales occupancies, go to Tables 5003.11.1 and 5704.3.4.1 of the *International Fire Code* for MAQs.).
- HMIS Inventory Report (see Example Format in Figure 5).
 - Complete an inventory report by listing products by location.
 - 2.2. Product Name.
 - Components. (For mixtures specify percentages of major components if available.)
 - Chemical Abstract Service (CAS) Number. (For mixtures list CAS Numbers of major components if available.)
 - Location. (Identify the control area or, if it is a Group H occupancy, provide the classification, such as H-2, H-3, etc.)
 - 2.6. Container with a capacity of greater than 55 gallons (208 L). (If product container, vessel or tank could exceed 55 gallons, indicate yes in column.)
 - Hazard Classification. (List applicable classifications for each product.)
 - Stored. (Amount of product in storage conditions.)

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- Closed. (Amount of product in use-closed systems.)
- 2.10. Open. (Amount of product in use-open systems.)

Facilities that have prepared, filed and submitted a Tier II Inventory Report required by the U.S. Environmental Protection Agency (USEPA) or required by a state that has secured USEPA approval for a similar form shall be deemed to have complied with this section.

SECTION H103 EMERGENCY PLAN

- Emergency Notification. (See Example Format in Figure 6.)
- Where OSHA or state regulations require a facility to have either an Emergency Action Plan (EAP) or an Emergency Response Plan (ERP), the EAP or ERP shall be included as part of the HMMP.

SECTION H104 REFERENCED STANDARDS

ICC IBC—15 International Building Code H102.1 ICC IFC—15 International Fire Code H102.1



FIGURE 1 HAZARDOUS MATERIALS MANAGEMENT PLAN SECTION I: FACILITY DESCRIPTION

		Pno	ne:
Address:			
Person Responsible for t Name:	the Business Title:	Pho	ne:
3. Emergency Contacts:			
Name:	Title:	Home Number:	Work Number:
Person Responsible for t Name:	the Application/Principal Contact: Title:	Pho	ne:
Dringinal Business Activi	ty:		
1			
6. Number of Employees: 7. Number of Shifts: a. Number of Employees			
6. Number of Employees:_ 7. Number of Shifts: a. Number of Employees	s per Shift:		

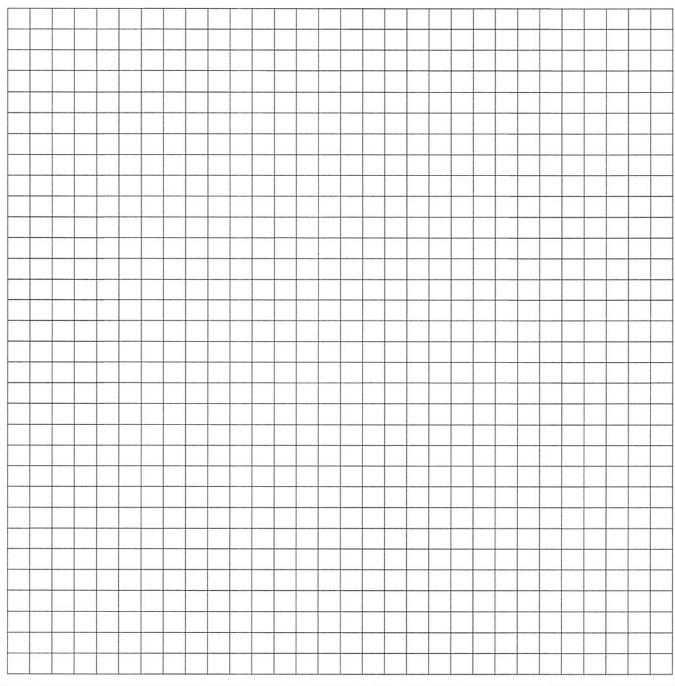
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FIGURE 2 HAZARDOUS MATERIALS MANAGEMENT PLAN SECTION I: FACILITY DESCRIPTION

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FIGURE 3 HAZARDOUS MATERIALS MANAGEMENT PLAN SECTION I: FACILITY DESCRIPTION PART C—FACILITY MAP



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FIGURE 4
SECTION II—HAZARDOUS MATERIALS INVENTORY STATEMENT (HMIS) HMIS SUMMARY REPORT® (Storage® Conditions)®

IBC/IFC HAZARD CLASS	HAZARD CLASS	I	NVENTORY AMO	UNT	IBC/IFC MAXIMUM ALLOWABLE QUANTITY ^d				
	(Abbrev)	Solid (lb)	Liquid (gal)	Gas (cu ft, gal, lb)	Solid (lb)	Liquid (gal)	Gas (cu ft, gal, lb)		
Combustible Liquid	C2		5			120			
	C3A					330			
	СЗВ		6			13,200			
Combustible Fiber	Loose/Baled								
Cryogenics, Flammable	Cryo-Flam					45			
Cryogenic, Oxidizing	Cryo-OX					45			
Flammable Gas	FLG								
(Gaseous)				150			1,000		
(Liquefied)						30			
Flammable Liquid	FIA					30			
	F1B & F1C		5			120			
Combination (1A, 1B, 1C	2)		5			120			
Flammable Solid	FLS				125				
Organic Peroxide	OPU				0				
	OP1				5				
	OP2				50				
	OP3				125				
	OP4				NL				
	OP5				NL				
Oxidizer	OX4				0				
	OX3				10				
	OX2				250				
	OX1				4,000				

a. Complete a summary report for each control area and Group H occupancy.

(This is an example; add additional hazard classes as needed.)

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b. Storage = storage + use-closed + use-open systems.

c. Separate reports are required for use-closed and use-open systems.

d. Include increases for sprinklefrs or storage in cabinets, if applicable.

FIGURE 5 SECTION II — HAZARDOUS MATERIALS INVENTORY STATEMENT (HMIS) HMIS INVENTORY REPORT (Sort Products Alphabetically by Location of Product and then Alphabetically by Product Name)

No. of the contract of the con	Tuucis Aipiiai	,	y zecune.			und tri	cii Aipii	abetie	,, .	roudet	realine)			
Product Name (Components)°	CAS Number	Location*	Container > 55 gal ^b	Haz Class 1	Haz Class 2	Haz Class 3	Stored (lbs)	Stored (gal)	Stored (gas) ^d	Closed (lbs)	Closed (gal)	Closed gas ^d	Open (lbs)	Open (gal)
ACETYLENE (Acetylene gas)	74-86-2	Control Area 1		FLG	UR2				150					
BLACK AEROSOL SPRAY PAINT (Mixture)	Mixture	Control Area 1		A-L3			24							
GASOLINE, UNLEADED (Gasoline-Mixture) Methyl-t-Butyl-Ether-15% Diisopropyl Ether-7% Ethanol-11% Toluene-12% Xylene-11%	8006-61-9 1634-04-4 108-20-3 64-17-5 108-88-3 1330-20-7	Control Area 1		F1B				5						
MOTOR OIL-10W40 (Hydrotreated Heavy Paraffinic Distillate-85%; Additives-20%)	64742-54-7 Mixture	Control Area 1		СЗВ				3						
DIESEL (Diesel-99-100%; Additives)	68476-34-6 Proprietary	Control Area 2	Yes	C2				225						
TRANSMISSION FLUID (Oil-Solvent-Neutral; Performance Additives)	64742-65-0	Control Area 2		СЗВ				3						
OXYGEN, GAS (Oxygen)	7782-44-7	Н-3		oxg					5,000					

a. Identify the control area or, if it is a Group H occupancy, provide the classification, such as H-2, H-3, etc.

(This is an example; add additional hazard classes as needed.)

b. If the product container, vessel or tank could exceed 55 gallons, indicate yes in the column.

c. Specify percentages of main components if available.

d. In cubic feet, gallons or pounds.

LEPC Other

FIGURE 6 HAZARDOUS MATERIALS MANAGEMENT PLAN SECTION III: EMERGENCY PLAN

a. Facility Liaison	ency, the following shall be notified	•	
Name	Title	Home Number	Work Number
b. Agency			
Agency	Contact	Pho	one Number
Fire Department	1		

APPENDIX I

FIRE PROTECTION SYSTEMS—NONCOMPLIANT CONDITIONS

Deleted.







APPENDIX J

BUILDING INFORMATION SIGN

The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.

SECTION J101 GENERAL

J101.1 Scope. New buildings shall have a building information sign(s) that shall comply with Sections J101.1.1 through J101.7. Existing buildings shall be brought into conformance with Sections J101.1 through J101.9 when one of the following occurs:

- The fire department conducts an annual inspection intended to verify compliance with this section, or any required inspection.
- 2. When a change in use or occupancy has occurred.

Exceptions:

- 1. Group U occupancies.
- 2. One- and two-family dwellings.

J101.1.1 Sign location. The building information sign shall be placed at one of the following locations:

- Upon the entry door or sidelight at a minimum height of 42 inches (1067 mm) above the walking surface on the address side of the building or structure.
- Upon the exterior surface of the building or structure on either side of the entry door, not more than 3 feet (76 mm) from the entrance door, at a minimum

- height of 42 inches (1067 mm) above the walking surface on the address side of the building or structure.
- Conspicuously placed inside an enclosed entrance lobby, on any vertical surface within 10 feet (254 mm) of the entrance door at a minimum height of 42 inches (1067 mm) above the walking surface.
- 4. Inside the building's fire command center.
- On the exterior of the fire alarm control unit or on the wall immediately adjacent to the fire alarm control unit door where the alarm panel is located in the enclosed main lobby.

J101.1.2 Sign features. The building information sign shall consist of all of the following:

- 1. White reflective background with red letters.
- 2. Durable material.
- Numerals shall be Roman or Latin numerals, as required, or alphabet letters.
- Permanently affixed to the building or structure in an approved manner.

J101.1.3 Sign shape. The building information sign shall be a Maltese cross as shown in Figure J101.1.3.

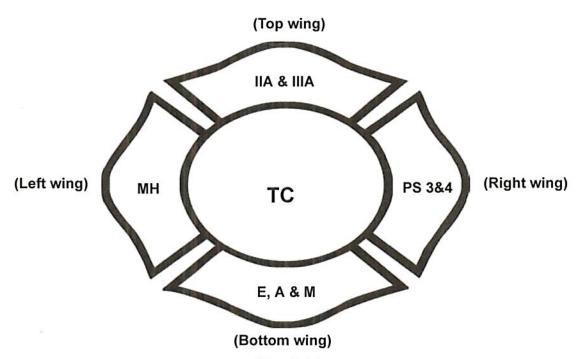


FIGURE J101.1.3
EXAMPLE OF COMPLETED BUILDING INFORMATION SIGN

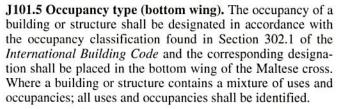
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- J101.1.4 Sign size and lettering. The minimum size of the building information sign and lettering shall be in accordance with the following:
 - The width and height shall be 6 inches by 6 inches (152 mm by 152 mm).
 - 2. The height or width of each Maltese cross wing area shall be 1¹/₈ inches (29 mm) and have a stroke width of ¹/₂ inch (13 mm).
 - 3. The center of the Maltese cross, a circle or oval, shall be 3 inches (76 mm) in diameter and have a stroke width of ½ inch (6 mm).
 - 4. All Roman numerals and alphabetic designations, shall be 1¹/₄ inch (32 mm) height and have a stroke width of ¹/₄ inch (6 mm).
- **J101.2 Sign designations.** Designations shall be made based upon the construction type, content, hazard, *fire protection systems*, life safety and occupancy. Where multiple designations occur within a classification category, the designation used shall be based on the greatest potential risk.
- J101.3 Construction type (top wing). The construction types shall be designated by assigning the appropriate Roman numeral, and letter, placed inside the top wing of the Maltese cross. The hourly rating provided is for the structural framing in accordance with Table 601 of the *International Building Code*,

CONSTRUCTION TYPE	FIRE-RESISTANCE RATING
IA—Noncombustible	3 Hours
IB—Noncombustible	2 Hours
IIA—Noncombustible	1 Hour
IIB—Noncombustible	0 Hours
IIIA—Noncombustible/combustible	1 Hour
IIIB—Noncombustible/combustible	0 Hours
IV—Heavy timber (HT)	HT
VA—Combustible	1 Hour
VB—Combustible	0 Hours

- **J101.4** Fire protection systems (right wing). The *fire protection system* shall be designated by determining its level of protection and assigning the appropriate designation to the right wing of the Maltese cross. Where multiple systems are provided, all shall be listed:
 - AS Automatic sprinkler system installed throughout
 - DS Dry sprinkler system and designated areas
 - FA Fire alarm system
 - FP Fire pump
 - FW Fire wall and designated areas
 - PAS Pre-action sprinkler system and designated floor
 - PS Partial automatic sprinkler system, and designate floor
 - CES Chemical extinguishing system and designated area
 - CS Combination sprinkler and standpipe system

- S Standpipe system
- NS No system installed



- A Assembly
- B Business
- E Educational
- F Factory or Industrial
- H High Hazard
- I Institutional
- M Mercantile
- R Residential

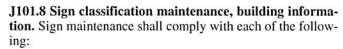
J101.6 Hazards of content (left wing). The hazards of building contents shall be designated by one of the following classifications as defined in NFPA 13 and the appropriate designation shall be placed inside the left wing of the Maltese cross:

- LH Light hazard
- MH Moderate hazard
- HH High hazard

J101.7 Tactical considerations (center circle). The center circle shall include the name of the local fire service and when required the letters TC for tactical considerations. Where fire fighters conduct preplan operations, a unique situation(s) for tactical considerations shall be identified and the information provided to the fire dispatch communications center to further assist fire fighters in identifying that there is special consideration(s) for this occupancy. Special consideration designations include, but are not limited to:

- 1. Impact-resistant drywall.
- Impact-resistant glazing, such as blast or hurricane-type glass.
- All types of roof and floor structural members including but not limited to post-tension concrete, bar joists, solid wood joists, rafters, trusses, cold-formed galvanized steel, I-joists and I-beams; green roof with vegetation, soil and plants.
- Hazardous materials (explosives, chemicals, plastics, etc.).
- 5. Solar panels and DC electrical energy.
- HVAC system; and smoke management system for pressurization and exhaust methods.
- Other unique characteristic(s) within the building that are ranked according to a potential risk to occupants and fire fighters.





- Fire departments in the jurisdiction shall define the designations to be placed within the sign.
- 2. Fire departments in the jurisdiction shall conduct annual inspections to verify compliance with this section of the code and shall notify the *owner*, or the *owner's* agent, of any required updates to the sign in accordance with fire department designations and the *owner*, or the *owner's* agent, shall comply within 30 days.
- The owner of a building shall be responsible for the maintenance and updates to the sign in accordance with fire department designations.

J101.9 Training. Jurisdictions shall train fire department personnel on Sections J101.1 through J101.9.

SECTION J102 REFERENCED STANDARDS

ICC	IBC—15	International Building Code	J101.3, J101.5
NFPA	13—13	Installation of Sprinkler Systems	J101.6





APPENDIX K

CONSTRUCTION REQUIREMENTS FOR EXISTING AMBULATORY CARE FACILITIES

Deleted.







APPENDIX L

REQUIREMENTS FOR FIRE FIGHTER AIR REPLENISHMENT SYSTEMS

The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.

SECTION L101 GENERAL

L101.1 Scope. Fire fighter air replenishment systems (FARS) shall be provided in accordance with this appendix. The adopting ordinance shall specify building characteristics or special hazards that establish thresholds triggering a requirement for the installation of a FARS. The requirement shall be based upon the fire department's capability of replenishing fire fighter breathing air during sustained emergency operations. Considerations shall include:

- Building characteristics, such as number of stories above or below grade plane, floor area, type of construction and fire-resistance of the primary structural frame to allow sustained fire-fighting operations based on a rating of not less than 2 hours.
- Special hazards, other than buildings, that require unique accommodations to allow the fire department to replenish fire fighter breathing air.
- 3. Fire department staffing level.
- Availability of a fire department breathing air replenishment vehicle.

SECTION L102 DEFINITIONS

L102.1 Definitions. For the purpose of this appendix, certain terms are defined as follows:

FIRE FIGHTER AIR REPLENISHMENT SYSTEM (FARS). A permanently installed arrangement of piping, valves, fittings and equipment to facilitate the replenishment of breathing air in self contained breathing apparatus (SCBA) for fire fighters engaged in emergency operations.

SECTION L103 PERMITS

- **L103.1 Permits.** Permits shall be required to install and maintain a FARS. Permits shall be in accordance with Sections L103.2 and L103.3.
- L103.2 Construction permit. A construction permit is required for installation of or modification to a FARS. The construction permit application shall include documentation of an acceptance and testing plan as specified in Section L105
- **L103.3 Operational permit.** An operational permit is required to maintain a FARS.

SECTION L104 DESIGN AND INSTALLATION

- **L104.1 Design and installation.** A FARS shall be designed and installed in accordance with Sections L104.2 through L104.15.
- L104.2 Standards. Fire fighter air replenishment systems shall be in accordance with Sections L104.2.1 and L104.2.2.
 - **L104.2.1 Pressurized system components.** Pressurized system components shall be designed and installed in accordance with ASME B31.3.
 - **L104.2.2 Air quality.** The system shall be designed to convey breathing air complying with NFPA 1989.
- L104.3 Design and operating pressure. The minimum design pressure shall be 110 percent of the fire department's normal SCBA fill pressure. The system design pressure shall be marked in an approved manner at the supply connections, and adjacent to pressure gauges on any fixed air supply components. Pressure shall be maintained in the system within 5 percent of the design pressure.
- **L104.4 Cylinder refill rate.** The FARS shall be capable of refilling breathing air cylinders of a size and pressure used by the fire department at a rate of not less than two empty cylinders in 2 minutes.
- L104.5 Breathing air supply. Where a fire department mobile air unit is available, the FARS shall be supplied by an external mobile air connection in accordance with Section L104.14. Where a fire department mobile air unit is not available, a stored pressure air supply shall be provided in accordance with Section L104.5.1. A stored pressure air supply shall be permitted to be added to a system supplied by an external mobile air connection provided that a means to bypass the stored pressure air supply is located at the external mobile air connection.
 - L104.5.1. Stored pressure air supply. A stored pressure air supply shall be designed based on Chapter 24 of NFPA 1901 except that provisions applicable only to mobile apparatus or not applicable to system design shall not apply. A stored pressure air supply shall be capable of refilling not less than 50 empty breathing air cylinders of a size and pressure used by the fire department.
 - L104.5,2. Retrofit of external mobile air connection. A FARS not initially provided with an external mobile air connection due to the lack of a mobile air unit shall be retrofitted with an external mobile air connection where a mobile air unit becomes available. Where an external mobile air connection is provided, a means to bypass the

APPENDIX L 040125 BCC Meeting

stored pressure air supply shall be located at the external mobile air connection. The retrofit shall be completed not more than 12 months after notification by the *fire code official*.

L104.6 Isolation valves. System isolation valves that are accessible to the fire department shall be installed on the system riser to allow piping beyond any air cylinder refill panel to be blocked.

L104.7 Pressure relief valve. Pressure relief valves shall be installed at each point of supply and at the top or end of every riser. The relief valve shall meet the requirements of CGA S-1.3 and shall not be field adjustable. Pressure relief valves shall discharge in a manner that does not endanger personnel who are in the area. Valves, plugs or caps shall not be installed in the discharge of a pressure relief valve. Where discharge piping is used the end shall not be threaded.

L104.8 Materials and equipment. Pressurized system components shall be *listed* or *approved* for their intended use and rated for the maximum allowable design pressure in the system. Piping and fittings shall be stainless steel.

L104.9 Welded connections. Piping connections that are concealed shall be welded.

L104.10 Protection of piping. System piping shall be protected from physical damage in an *approved* manner.

L104.11 Compatibility. Fittings and connections intended to be used by the fire department shall be compatible with the fire department's equipment.

L104.12 Security. Connections to a FARS shall be safeguarded from unauthorized access in an *approved* manner.

L104.13 Fill stations. Fire fighter air replenishment fill stations shall comply with Section L104.13.1 through L104.13.3.

L104.13.1 Location. Fill stations for refilling breathing air cylinders shall be located as follows:

- Fill stations shall be provided at the fifth floor above and below the ground level floor and every third floor level thereafter.
- 2. On floor levels requiring fill stations, one fill station shall be provided adjacent to a required exit stair at a location designated by the *fire code official*. In buildings required to have three or more exit stairs, additional fill stations shall be provided at a ratio of one fill station for every three stairways.

L104.13.2 Design. Fill stations for breathing air cylinders shall be designed to meet the following requirements:

- A pressure gauge and pressure-regulating devices and controls shall be provided to allow the operator to control the fill pressure and fill rate on each cylinder fill hose.
- Valves controlling cylinder fill hoses shall be slowoperating valves.
- A separate flow restriction device shall be provided on each fill hose.

 A method shall be provided to bleed each cylinder fill hose.

5. The fill station shall be designed to provide a containment area that fully encloses any cylinder being filled and flexible cylinder fill hoses, and directs the energy from a failure away from personnel. Fill stations shall be designed to prohibit filling of cylinders that are not enclosed within the containment area.

Exception: Where required or *approved* by the fire chief, fill stations providing for the direct refilling of the fire fighters' breathing air cylinders using Rapid Intervention Crew/Company Universal Air Connection (RIC/UAC) fittings shall be used in lieu of cylinder fill stations that utilize containment areas.

L104.13.3 Cylinder refill rate. Fill stations shall be capable of simultaneously filling two or more empty breathing air cylinders equivalent to those used by the fire department to the cylinders' design pressure within 2 minutes.

L104.14 External mobile air connection. An external mobile air connection shall be provided for fire department mobile air apparatus where required by Section L104.5 to supply the system with breathing air.

L104.14.1 Location. The location of the external mobile air connection shall be accessible to mobile air apparatus and *approved* by the fire chief.

L104.14.2 Protection from vehicles. A means of vehicle impact protection in accordance with Section 312 shall be provided to protect mobile air connections that are subject to vehicular impact.

L104.14.3 Clear space around connections. A working space of not less than 36 inches (914 mm) in width, 36 inches (914 mm) in depth and 78 inches (1981 mm) in height shall be provided and maintained in front of and to the sides of external mobile air connections.

L104.15 Air monitoring system. An approved air monitoring system shall be provided. The system shall automatically monitor air quality, moisture and pressure on a continual basis. The air monitoring system shall be equipped with not less than two content analyzers capable of detecting carbon monoxide, carbon dioxide, nitrogen, oxygen, moisture and hydrocarbons.

L104.15.1 Alarm conditions. The air monitoring system shall transmit a supervisory signal when any of the following levels are detected:

- Carbon monoxide exceeds 5 ppm.
- 2. Carbon dioxide exceeds 1,000 ppm.
- 3. An oxygen level below 19.5 percent or above 23.5 percent.
- A nitrogen level below 75 percent or above 81 percent.
- Hydrocarbon (condensed) content exceeds 5 milligrams per cubic meter of air.

2018 NORTH CAROLINA FIRE CODE

- The moisture concentration exceeds 24 ppm by volume.
- The pressure falls below 90 percent of the maintenance pressure specified in Section L104.3.

L104.15.2 Alarm supervision, monitoring and notification. The air monitoring system shall be electrically supervised and monitored by an *approved* supervising station, or where *approved*, shall initiate audible and visual supervisory signals at a constantly attended location.

L104.15.3 Air quality status display. Air quality status shall be visually displayed at the external mobile air connection required by Section L104.14.

SECTION L105 ACCEPTANCE TESTS

L105.1 Acceptance tests. Upon completion of the installation, a FARS shall be acceptance tested to verify compliance with equipment manufacturers' instructions and design documents. Oversight of the acceptance tests shall be provided by a registered design professional. Acceptance testing shall include all of the following:

- A pneumatic test in accordance with ASME B31.3 of the complete system at a minimum test pressure of 110 percent of the system design pressure using oil free dry air, nitrogen or argon shall be conducted. Test pressure shall be maintained for not less than 24 hours. During this test, all fittings, joints and system components shall be inspected for leaks. Defects in the system or leaks detected shall be documented and repaired.
- A cylinder-filling performance test shall be conducted to verify compliance with the required breathing air cylinder refill rate from the exterior mobile air connection and, where provided, a stored air pressure supply system.
- The air quality monitoring system shall be tested to verify both of the following conditions:
 - Visual indicators required by Section L104.15.1 function properly.
 - Supervisory signals are transmitted as required by Section L104.15.2 for each sensor based on a sensor function test.
- Connections intended for fire department use shall be confirmed as compatible with the fire department's mobile air unit, SCBA cylinders and, where provided, RIC/UAC connections.
- 5. Air samples shall be taken from not less than two fill stations and submitted to an approved gas analysis laboratory to verify compliance with NFPA 1989. The FARS shall not be placed into service until a written report verifying compliance with NFPA 1989 has been provided to the fire code official.

SECTION L106 INSPECTION, TESTING AND MAINTENANCE

L106.1 Periodic inspection, testing and maintenance. A FARS shall be continuously maintained in an operative condition and shall be inspected not less than annually. Not less than quarterly, an air sample shall be taken from the system and tested to verify compliance with NFPA 1989. The laboratory test results shall be maintained on site and readily available for review by the *fire code official*.

SECTION L107 REFERENCED STANDARDS

ASME B31.3—2012	Process Piping	L104.2.1, L105.1
CGA S-1.3—2008	Pressure Relief Device Standards – Part 3 Stationary Storage Containers for Compressed Gases L104.7	
NFPA 1901—09	Standard for Auto Fire Apparatus	2000200200
NFPA 1989—13	Breathing Air Quality for Fire Emergency Services Respiratory Protection	
		L104.2.2,
	L105	



APPENDIX M

HIGH-RISE BUILDINGS—RETROACTIVE AUTOMATIC SPRINKLER REQUIREMENT

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AGENDA ITEM 10:

MISCELLANEOUS ADMINISTRATIVE MATTERS

F. April Meeting Schedule

MANAGER'S COMMENTS:

Due to the upcoming holiday, the Manager recommends cancelling the second meeting in April. Should a meeting be necessary, a Special Called meeting could be scheduled.

Board action is required to cancel the April 15, 2025 meeting.

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AGENDA ITEM 10:

MISCELLANEOUS ADMINISTRATIVE MATTERS

G. Announcements

MANAGER'S COMMENTS:

Caldwell Community College and Technical Institute (CCC&TI) invites the Board to attend their 60th Anniversary Sunset Celebration on Tuesday, April 29, 2025 from 5:00 to 7:00 P.M. at the Watauga Campus Student Services Center located on Community College Drive, Boone. Anita will be happy to RSVP on your behalf.

The UNC School of Government will present an Ethics for Elected Officials course via Zoom on Thursday, May 22, 2025, from 10:00 A.M. to 12:00 P.M. The course will be live and will be broadcast in the Commissioners' Board Room. The course is required to be taken by all Commissioners by December 2025. A group registration will be done for those who plan to attend in the Board Room and separate registrations will be done for those who will need to view it from a different location. Please let Anita know if you can attend.

AGENDA ITEM 11:

BREAK



Please join us for CCC&TI's 60th Anniversary Sunset Celebration

Tuesday, April 29, 2025 • 5-7 p.m.

at the Watauga Campus Student Services Center

460 Community College Drive

Boone, North Carolina

Live music, hors d'oeuvres, beverages, and giveaways

RSVP by scanning the QR Code on the back or contact Halley Winkler at 828.726.2260 or hwinkler@cccti.edu by April 22.

Ethics for Elected Officials

Online - Click here to register for this course offering May 22, 2025



This training will be held live on 5/22/25, online via Zoom, from 10am to 12pm.

Group discounts are not offered for the on-demand version.

Under North Carolina law, members of governing boards of cities, counties, local boards of education, unified governments, sanitary districts, and consolidated city-counties are required to receive at least two (2) clock hours of ethics training within twelve months after each election or appointment to office. The ethics training requirement is an ongoing obligation, triggered by each subsequent re-election or reappointment to office.

This online training will satisfy the 2 clock hours of local ethics training required by state law for elected and appointed officials. This training MUST be completed within 12 months of election day and is required every time they are re-elected or appointed and reappointed to a local office.

See further instructions below and in the Preparation Checklist.

• Is your board attorney or a member of your board who is an attorney watching the webinar? The NC State Bar requires attorneys who wish to claim CLE (Continuing Legal Education) credit to purchase the webinar

separately in their name. The attorney must self-report to the State Bar for CLE credit.

What you need to know before you purchase:

A. If multiple incumbent board members need to receive their ethics training, you all should register via the group rates. Have your clerk or manager register you all as a group in a single transaction. If you need assistance, contact registration@sog.unc.edu.

B. Who this training does NOT cover:

Individuals serving on state boards subject to the State Government Ethics Act (SGEA): Local elected officials who also serve on a state board that is subject to the State Government Ethics Act (SGEA), including local community college boards, are required to take ethics training that is offered through the State Ethics Commission. The SOG ethics-training program for local elected officials does NOT satisfy the state ethics training, and the state ethics training does NOT satisfy the local elected official ethics-training which is offered through this page. Consequently, local elected officials who also serve on a state board subject to the SGEA, must take both the state and the local ethics training programs. Officials who need to complete state ethics training should:

- Contact their board's ethics liaison for training, or
- Complete the online training available on State Board of Elections and Ethics Enforcement (formerly the State Ethics Commission)
 website: ethics.ncsbe.gov/education/eduOnline

Local ABC Boards: For individuals who serve on a local ABC board, separate training is required. The SOG ethics training program for local elected officials does *NOT* satisfy the local ABC Board training, and the local ABC Board training does *NOT* satisfy the local elected officials ethic training. Here is the link to the webinar page for local ABC Boards.

School Boards: Please contact the NC School Boards Association for further information.

C. Board notice of a public meeting:

Boards are advised to give public notice of a special meeting for ethics training sessions if a majority of the board might be in attendance at the event. This is in keeping with the spirit of the ethics law, and out of an abundance of caution

concerning the legal requirements for board meetings.

Purchasing the Webinar

A. Who should purchase from your unit:

- If you want to receive the group rate, have your clerk or manager register everyone in a single transaction.
- Is your board attorney or a member of your board who is an attorney watching the webinar? The NC State Bar requires attorneys who wish to claim CLE (Continuing Legal Education) credit to purchase the webinar separately in their name, and to self-report to the State Bard for CLE credit.
- Do you have to purchase the webinars for each person watching from your board? Yes.
- Adding no-reply@sog.unc.edu and lrich@sog.unc.edu to your contacts will increase the chance of the email getting through.

Issues with purchasing? Simply email our registration department directly at registration@sog.unc.edu for issues with the registration/purchase process, passwords, or logging in. Provide your phone number and brief summary of your issue and someone from that department will contact you shortly. This is the fastest way to get assistance as there are multiple people in that department who can respond to you quickly.

LELA Level: This is a 101 Level course in the Local Elected Leaders Academy. Participating elected officials will earn 2 credits toward their Practitioner recognition certificate.

LEAD FACULTY

AGENDA ITEM 12:

CLOSED SESSION

Attorney/Client Matters per, G. S. 143-318.11(a)(3) Land Acquisition per, G. S. 143-318.11(a)(5)(i)