# TENTATIVE AGENDA AND MEETING NOTICE WATAUGA COUNTY BOARD OF COMMISSIONERS

TUESDAY, OCTOBER 21, 2025 AT 5:30 PM

## WATAUGA COUNTY RECREATION CENTER COMMUNITY ROOM

TIME	#	TOPIC	PRESENTER	PAGE
5:30	1	CALL REGULAR MEETING TO ORDER		
	2	APPROVAL OF MINUTES  OCTOBER 7, 2025, REGULAR MEETING OCTOBER 7, 2025, CLOSED SESSION		2
	3	APPROVAL OF THE OCTOBER 21, 2025, AGENDA		12
5:35	4	PUBLIC COMMENT  WILL LAST UP TO ONE HOUR, DEPENDING ON THE NUMBER OF SPEAKERS	CHAIRMAN EGGERS	13
5:40	5	NORTHERN PEAKS STATE TRAIL 2025 UPDATE	JORDAN SELLERS	14
5:45	6	APPALCART FY26 ROAP GRANT APPLICATION AND UPDATE	CRAIG HUGHES	25
5:50	7	RISE CALDWELL-WATAUGA PROGRAM	JOE FURMAN TARA BROSSA	33
5:55	8	NC DEPARTMENT OF MILITARY AND VETERANS AFFAIRS GRANT FOR VETERANS SERVICES	APRIL GOODMAN	36
6:00	9	DEPARTMENT OF SOCIAL SERVICES – FOSTER CARE PLACEMENT CHALLENGES	Tom Hughes	54
6:05	10	EMERGENCY SERVICES MATTERS  A. BID AWARD REQUEST FOR POWDER HORN TOWER  B. ZOLL EQUIPMENT PURCHASE  C. AMBULANCE PURCHASE  D. NEW FACILITY CONSOLE PURCHASE	WILL HOLT	59 145 153 156
6:10	11	TAX MATTERS A. MONTHLY COLLECTIONS REPORT B. REFUNDS AND RELEASES	TYLER RASH	159 161
6:15	12	MISCELLANEOUS ADMINISTRATIVE MATTERS A. BOARDS AND COMMISSIONS	DERON GEOUQUE	173
6:20	13	Break		176
6:30	14	CLOSED SESSION  ATTORNEY-CLIENT MATTERS PER G. S. § 143-318.11(A)(3)  LAND ACQUISITION PER G.S. § 143-318.11(A)(5)  PERSONNEL MATTERS PER G.S. § 143-318.11(A)(1)		176
6:40	15	Adjourn		

## **AGENDA ITEM 2:**

## **APPROVAL OF MINUTES:**

October 7, 2025, Regular Meeting October 7, 2025, Closed Session

DRAFT

# MEETING MINUTES WATAUGA COUNTY BOARD OF COMMISSIONERS

TUESDAY, OCTOBER 7, 2025

The Watauga County Board of Commissioners held a regular meeting on Tuesday, October 7, 2025, at 5:30 P.M. in the Commissioners' Board Room located in the Watauga County Administration Building in Boone, North Carolina.

## 1. CALL REGULAR MEETING TO ORDER

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 Katie Hancock, Clerk to the Board

Vice-Chairman Castle offered a prayer and Commissioner Greene led the Pledge of Allegiance.

## 2. APPROVAL OF MINUTES

Chairman Eggers presented the September 16, 2025, regular and closed session meeting minutes.

Commissioner Marsh, seconded by Commissioner Greene, moved to approve the September 16, 2025, regular meeting minutes as presented.

VOTE: 
$$Aye - 5$$
  
 $Nay - 0$ 

Commissioner Marsh, seconded by Commissioner Greene, moved to approve the September 16, 2025, closed session minutes as presented.

VOTE: 
$$Aye - 5$$
  
 $Nay - 0$ 

## 3. APPROVAL OF AGENDA

Chairman Eggers called for additions or corrections to the October 7, 2025, agenda.

County Manager Geouque requested the following additions:

• Agenda Item 8 to include the following:

A. Old Cove Creek Park Update

- Agenda Item 9 to include the following:
  - G. New Ambulances Upfit
  - H. Purchase of New Ambulance
- Possible Action after Closed Session

Commissioner Marsh, seconded by Vice-Chairman Castle, moved to approve the October 7, 2025, agenda as amended.

VOTE: Aye - 5Nay - 0

## 4. Public Comment

- Jana Smith, a 15-year resident of Powder Horn Mountain and longtime fire department and EMT volunteer, spoke in support of the Powder Horn Mountain Tower, citing ongoing communication challenges for first responders. She stated that pager reception is unreliable and that during Hurricane Helene, volunteers had to staff a bike station 24/7 due to the inability to communicate with medics or dispatch.
- Victor Hamby, Chief of the Deep Gap Fire Department, spoke in support of the Powder Horn Mountain Tower, citing frequent radio communication issues with the Stewart Simmons Volunteer Fire Department. He noted that the departments work closely together, but the lack of reliable communication affects responder safety.
- Jimmy Isaacs, Fire Chief for the Town of Boone, spoke in support of the Powder Horn Mountain Tower, noting that his department's territory borders that of the Stewart Simmons Volunteer Fire Department. He cited limited communications in a wildfire-prone area and shared an example of losing coverage during a search in Heavenly Mountain. He emphasized that while no one wants a tower in their view, its construction is essential for safety.
- **Diane Nilan,** a resident of Blowing Rock, spoke in opposition to Senate Bill 759, ratified in 2023, expressing concern that the new voting districts constituted gerrymandering intended to disadvantage Democrats and suppress student votes at Appalachian State University.
- **Doug Berry,** Chief of the Stewart Simmons Volunteer Fire Department with 30 years of service, spoke in support of the Powder Horn Mountain Tower. He cited significant communication gaps that can create life-threatening situations and noted that it took years to identify a suitable tower site, acknowledging that some residents may experience minor changes to their view.
- Marian Peters, a Boone resident living near Appalachian State University, spoke in opposition to Senate Bill 759, ratified in 2023. She stated that she believed the bill effectively took away her vote while she continues to pay taxes, describing the situation as "taxation without representation."

- **Donna Liserby**, a Watauga County election official, spoke in opposition to Senate Bill 759, ratified in 2023. She stated that, in her experience, Watauga County election officials work collaboratively regardless of political affiliation and expressed her belief that the bill constituted gerrymandering. She referenced a pending lawsuit challenging the legislation and urged the Board not to oppose it.
- Janet Montgomery, a resident of Vilas since 2001, thanked the Board for their service and for the opportunity to speak. She urged the Board to consider spending decisions carefully, advocate for fair elections and voting maps, and avoid wasting tax dollars on a lawsuit. She noted that fair maps are needed, as approximately 20,000 voters are currently unable to cast ballots.
- Brian Juneau thanked the Board for the opportunity to speak and acknowledged the first responders who spoke before him. He expressed concern that some voters feel their votes are not being fairly represented and urged the Board to consider these issues.
- Misty Mayfield, a resident of Vilas for 26 years, thanked the Board for the opportunity to speak. She expressed concern that Watauga County has received only 9% of requested federal funding for Hurricane Helene recovery and urged the Board to prioritize recovery efforts rather than using funds to oppose the pending lawsuit, emphasizing respect for citizens' votes.
- Richard Tidyman, a resident of Deep Gap, spoke in opposition to Senate Bill 759, ratified in 2023. He advocated for election integrity, including the creation of fair maps, and urged the Board not to contest the pending lawsuit, stating they would likely lose. He described such action as "money thrown down the drain" and suggested that the funds would be better spent on K–12 education, Hurricane Helene recovery efforts, and improvements to parks and trails. He concluded by encouraging the Board to avoid wasting money on the lawsuit.

## 5. ISAIAH 177 HOUSE PROGRAM PRESENTATION

Julie Dixon, Multi-State Director for Isaiah 117 House, provided an overview of the nonprofit, which partners with child welfare agencies to support children entering foster care. In 2024, the organization operated 29 homes across 12 states with over 6,000 volunteers, serving more than 4,000 children directly and assisting many more through resources such as car seats and beds.

Julie shared her personal journey, explaining that she felt called to foster care and, shortly after becoming an approved foster parent, welcomed an 18-day-old baby. She emphasized that children often arrive with nothing, sometimes even being removed while at school. The Isaiah 117 House ensures children arrive at fully stocked homes rather than offices, leaving with everything needed for the following week. The organization provides basic care, including baths and lice treatments, as well as emotional support for the children, foster families, and caseworkers. A visitation space, allows caseworkers to provide parenting skill support, with the ultimate goal being reunification.

During discussion, Commissioner Greene asked about the length of stay for children, and Julie explained that stays are typically up to 72 hours but may be extended for children who are more difficult to place. Commissioner Marsh inquired about volunteer turnover, and Julie noted that

each house starts with around 60 trained volunteers, often growing to over 100. She affirmed that there is a clear need for such services in the region, particularly for mental health support. Commissioner Hodges asked about funding from counties, and Julie explained that the organization is debt-free and community-funded, with Johnston County, NC, being the first to provide direct county support. Commissioner Greene asked about steps for opening a house in Watauga County; Julie described a two-year application process including community outreach and land acquisition if needed. Chairman Eggers suggested the commissioners consider visiting an existing Isaiah 117 House to better understand operations.

The presentation was for informational purposes only, and no action was required by the Board.

## 6. DISSOLUTION OF THE WATAUGA COUNTY FIRE COMMISSION

Steve Marks, Chair of the Watauga County Fire Commission, presented a proposal to dissolve the existing commission, explaining that its functions have become largely redundant. The County maintains individual service contracts with each fire department, and compliance is monitored through the ISO rating system and annual inspections by the County Fire Marshal's Office.

Mr. Marks noted that the current resolution establishing the Fire Commission is outdated and recommended its rescission to allow for the creation of the Watauga County Fire Chiefs Council. This new council, working in conjunction with the Firefighters' Association, will provide a collaborative forum to support and enhance fire protection. He suggested that one Board member serve in an advisory capacity and expressed support for adding another member to act as a liaison.

Commissioner Marsh, seconded by Vice-Chairman Castle, moved to rescind the Resolution establishing the Watauga County Fire Commission and establish the Watauga County Fire Chiefs Council to work in conjunction with the Firefighters' Association.

VOTE: Aye - 5Nay - 0

## Potential for Fire Training Facility

Following the vote, Mr. Marks addressed the need for a local Fire Training Facility. He explained that while the County prefers to conduct firefighter training in-house, they currently must use facilities elsewhere. Mr. Marks noted the potential to create a Fire Training Facility on the property currently occupied by the National Guard in the Town of Boone, which already contains the necessary infrastructure. He stated that the proposal has unanimous support from both the Town and the County. Commissioner Marsh acknowledged that this has been an ongoing discussion and noted that available sites are becoming increasingly limited. Mr. Marks concluded by recognizing that the property is not currently available but expressed the desire to be considered a priority when it does become available.

# 7. FISCAL AGENT AND GRANT MATCH REQUEST FOR WATAUGA COOPERATIVE EXTENSION

Kendra Phipps, Livestock Extension Agent with NC Cooperative Extension, requested that Watauga County serve as fiscal agent and provide the required 15% match for an NC Agricultural Development Grant. The grant would fund shared-use agricultural equipment, including a rock windrower, picker, fence stapler, T-post driver, and fencing wire unrollers, to help local producers recover from Hurricane Helene. The County's match would include \$2,500 in-kind through personnel/administrative support and a \$3,500 monetary contribution, with equipment stored at the Ag Services office for local farmers to rent.

Ms. Phipps explained that many hayfields could not be harvested after Hurricane Helene due to rocks and sediment, and that the grant-funded equipment would help farmers recover. She noted that rental fees help cover maintenance costs and that the equipment is heavily used by local farmers. Commissioner Hodges commented that this is a valuable service to the community.

Commissioner Marsh, seconded by Commissioner Hodges, moved that Watauga County serve as fiscal agent and provide the \$5,000 match if the grant is awarded.

VOTE: Aye - 5Nay - 0

## 8. Annual Comprehensive Evaluation for Project on Aging

Angie Boitnotte, Project on Aging Director, presented the annual comprehensive evaluation of the Project on Aging, as required by the NC Division of Health Service Regulation. The report included client, service, and revenue statistics, along with a review of agency policies. Ms. Boitnotte explained that she is responsible for preparing the annual report and reviewing policies to determine if updates are needed. The Board was asked to approve updates to agency policies, including the addition of "Level III" under Scope of Services and Admission of Clients, and a correction to a page reference under Service Records.

Commissioner Hodges, seconded by Commissioner Marsh, moved to approve the annual report and the policy changes as presented.

VOTE: Aye - 5Nay - 0

## 8A. OLD COVE CREEK PARK UPDATE

Derrick Goddard, Vice President of BREC, provided an update on the restoration of Old Cove Creek Park, which sustained significant damage during Hurricane Helene. The restoration project is scheduled to go to bid on Friday, October 10, 2025, with the goal of ensuring the County receives FEMA funding.

Mr. Goddard shared site plans and project details with the Board. Planned upgrades include restoring the creek, cleaning debris, raising the field by five feet, adding 41 parking spaces, and

widening the trail to eight feet for handicap accessibility. Recreational improvements include three pickleball courts, a full basketball court, a playground, a 90 x 290 ft playing field, a half-mile walking track, and a concrete pad for the Doc Watson Festival. Additional improvements include a restroom/picnic pavilion with two unisex bathrooms, dedicated crosswalks, and potentially a new well. Bids are due by 4:00 PM on October 10, 2025.

The presentation was for informational purposes only, and no action was required by the Board.

## 9. MISCELLANEOUS ADMINISTRATIVE MATTERS

## A. Recommended Contract Award for Employee Medical, Dental, Vision, and Life Insurance

County Manager Deron Geouque presented renewal rates for employee medical, dental, vision, and life insurance benefits. The initial CIGNA medical renewal reflected a 42.3% increase, which was negotiated down to 14.4% through market analysis and bidding. United HealthCare offered the same medical plan structure with a 14.4% increase and without major changes to benefits. Eligible employees would also receive \$1,000 funded into their HSA accounts.

Vision insurance with Community Eye Care were presented with minimal increases, including a new benefit covering an annual contact lens fitting fee through the voluntary eyewear plan, at no additional cost to the County. Life insurance through The Standard will continue with no changes.

Chairman Eggers asked about typical annual increases, and Mr. Geouque noted they average about 5%, explaining that the final 14.4% medical increase aligns with current market trends. He also highlighted that the plan deductible is \$2,500 and that employees can receive the HSA contribution, and that the life insurance plan remains unchanged. Dental negotiations are ongoing and will be presented at a later date.

Commissioner Greene, seconded by Vice-Chairman Castle, moved to approve United HealthCare for medical insurance with \$1,000 HSA contributions and Community Eye Care for vision, with the respective increases.

VOTE: 
$$Aye - 5$$
  
 $Nay - 0$ 

## B. Change Order 7 for Valle Crucis School

County Manager Deron Geouque presented Change Order 7 from H&M Constructors for Valle Crucis School, which includes adjustments such as relocation of the grease trap, door hardware, kitchen mixing valves, well house slab, soffits, cafeteria casework revisions, and various landscape and millwork changes. The net effect of the change order is a decrease of \$37,438.28 to the contract amount. Supporting documentation from Clark Nexsen was provided for review.

Commissioner Marsh inquired if additional change orders were expected. Mr. Geouque stated that at least one more for landscaping is anticipated to create a screen using maple trees along the parking lot, with potential additional unused allowances and security-related change orders. County Attorney Nathan Miller asked about the method of receiving the reduction from H&M, and Mr. Geouque confirmed it would be an overall contract reduction.

Vice-Chairman Castle, seconded by Commissioner Greene, moved to approve deductive Change Order 7 for Valle Crucis School.

VOTE: 
$$Aye - 5$$
  
 $Nay - 0$ 

## C. Guy Ford Road License Agreement

Greg Derby, property owner adjacent to the County's Guy Ford paddle access, requested authorization to extend the existing fence to the bank in the parking lot to prevent trespassing on his property. Mr. Derby agreed to fund the fence installation. County Attorney Nathan Miller drafted a license agreement for the Board's approval.

Commissioner Hodges, seconded by Commissioner Greene, moved to approve the license allowing Mr. Derby to extend the fence at the Guy Ford paddle access.

VOTE: 
$$Aye - 5$$
  
 $Nay - 0$ 

### D. American Red Cross License Renewal

County Manager Deron Geouque presented a request from the American Red Cross to renew their license agreement for the property located at 331 Queen Street, Boone, NC. The current agreement is set to expire on February 27, 2026. The proposed one-year renewal would extend the agreement under the same terms and conditions, allowing the Red Cross to continue providing disaster and shelter assistance in the community.

Commissioner Marsh, seconded by Vice-Chairman Castle, moved to approve a one-year renewal of the license agreement with the American Red Cross for 331 Queen Street, Boone, NC.

VOTE: 
$$Aye - 5$$
  
 $Nay - 0$ 

## E. Parks and Recreation Department Out-of-State Travel Request

Craig Lands, Assistant Director of Parks and Recreation, requested approval to travel out of state to attend the 2025 Special Olympics North America Tennis & Pickleball Championships, October 15–18, 2025. All expenses will be covered by the Special Olympics Watauga County budget, and use of the County van was requested.

Commissioner Marsh, seconded by Commissioner Hodges, moved to approve the out-of-state travel and use of the County van.

VOTE: 
$$Aye - 5$$
  
 $Nay - 0$ 

### F. Boards and Commissions

## <u>AppalCART Board</u>

The terms of Frank David V. (Quint), David Jackson, and Joe Eller on the AppalCART Board were set to expire. All three members have provided valuable feedback and faithfully fulfilled their duties during their terms and expressed willingness to continue serving. The Board considered reappointment for an additional two-year term in accordance with the AppalCART formative resolution.

Commissioner Marsh, seconded by Commissioner Hodges, moved to waive the first reading and reappoint Frank David V. (Quint), David Jackson, and Joe Eller to the AppalCART Board for an additional two-year term.

VOTE: 
$$Aye - 5$$
  
 $Nay - 0$ 

## G. New Ambulance Upfit

County Manager Deron Geouque presented a quote from ETA for graphics and painting of three (3) new ambulances recently purchased as remounts. The total cost is \$15,145 per ambulance, for a combined total of \$45,435.

Vice-Chairman Castle asked about the expected time frame for completion, and Mr. Geouque indicated that the upfitting is expected to be completed by mid-December.

Commissioner Greene, seconded by Vice-Chairman Castle, moved to approve ETA's quote in the amount of \$45,435 for graphics and painting of the three (3) new ambulances.

VOTE: 
$$Aye - 5$$
  
 $Nay - 0$ 

## H. Purchase of New Ambulance

County staff was notified of a new ambulance available for purchase from Northwestern Emergency Vehicles for \$216,544, as the original client was unable to proceed with the purchase. The unit is on the HGAC contract and was competitively bid. Staff recommended the purchase to assist with the transition from Watauga Medics to County-operated services.

County Manager Geouque suggested that the Board may wish to defer action on this item until after Closed Session and moved the item to "Potential Action after Closed Session".

## **10.** COMMISSIONER COMMENTS

There were no Commissioner comments.

## 11. CLOSED SESSION

At 7:20 PM, Commissioner Marsh, seconded by Commissioner Greene, moved to enter Closed Session pursuant to G.S. § 143-318.11(a)(3) to discuss attorney-client privileged matters and § 143-318.11(a)(5) to consider matters related to land acquisition. County Attorney Miller noted that, under attorney-client privileged matters, the Board would discuss Case No. 5:25-cv-157.

VOTE: 
$$Aye - 5$$
  
 $Nay - 0$ 

At 9:13 PM, Chairman Eggers, seconded by Commissioner Marsh, moved to resume the open meeting.

VOTE: 
$$Aye - 5$$
  
 $Nay - 0$ 

## 12. Possible Action after Closed Session

## Purchase of New Ambulance

The Board had deferred action on this item (Item 9H) until after Closed Session.

Commissioner Marsh, seconded by Commissioner Hodges, moved to accept Northwestern Emergency Vehicles' quote of \$216,544 for a new 2025 Chevy Silverado 4X4 Type I AEV ambulance.

VOTE: 
$$Aye - 5$$
  
 $Nay - 0$ 

## 13. ADJOURN

At 9:16 PM, Vice-Chairman Castle, seconded by Commissioner Marsh, moved to adjourn the meeting.

VOTE: 
$$Aye - 5$$
  
 $Nay - 0$ 

## **Braxton Eggers, Chairman**

ATTEST: Katie Hancock, Clerk to the Board

## **AGENDA ITEM 3:**

## APPROVAL OF THE OCTOBER 21, 2025, AGENDA

## **AGENDA ITEM 4:**

## PUBLIC COMMENT

## **MANAGER'S COMMENTS:**

Public Comment is scheduled for up to one hour, depending on the number of speakers.

## **AGENDA ITEM 5:**

## NORTHERN PEAKS STATE TRAIL 2025 UPDATE

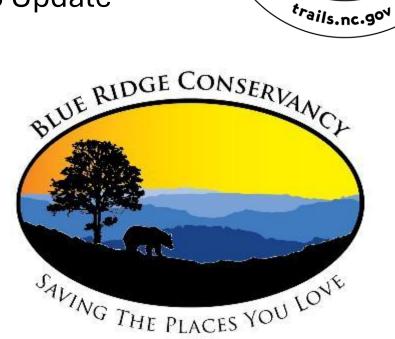
## **MANAGER'S COMMENTS:**

Jordan Sellers, Northern Peaks State Trail Coordinator with the Blue Ridge Conservancy, will provide an update on the progress of the Northern Peaks State Trail during 2025. The presentation will include current construction status, funding progress, and next steps for trail development within Watauga County.

This item is presented for informational purposes only; therefore, no action is required by the Board.

# Northern Peaks State Trail

2025 Update





# Mount Jefferson

- Purchased 64 acres to be added to Mount Jefferson State Natural Area.
- Completed biological survey with NC Natural Heritage Program.
- Supporting NC State Parks with refined trail alignment.





# Jefferson

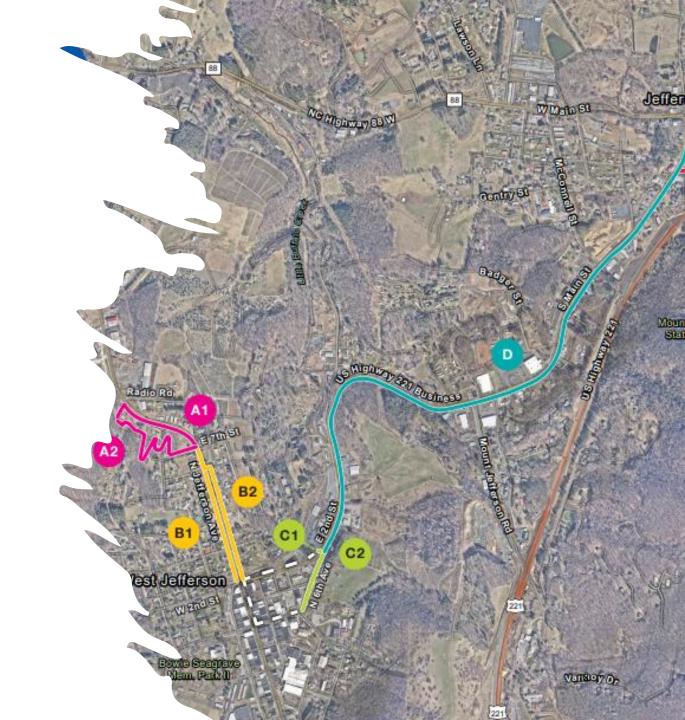
- Partnering with the Town of Jefferson to develop a professional concept plan for Foster-Tyson Park, the future NPST trailhead.
- Proposed ADA improvements:
  - Parking lot upgrades
  - Pavilion/shelter replacement
  - Restroom installation





# West Jefferson to Jefferson Connection

- Completed feasibility study with NCDOT, Ashe County, Town of Jefferson, and Town of West Jefferson.
- Working with stakeholders to identify a phased path forward.





# Paddy Mountain Park

- ~8,000 hikers annually (healthy mix of locals and visitors).
- Estimated \$288,000 economic benefit to Ashe County (Dr. John Whitehead BCA).
- ~40 shrubs, trees, and perennials donated by The Mustard Seed, planted at trailhead.
- Awaiting official designation, which will allow NPST blazes on the first section of trail.



# Three Top Mountain

## Phase 1:

- Awarded \$100,000
   Recreational Trails Program grant.
- Broke ground; ~1.5 miles complete.
- Phase 2:
- Awarded \$150,000 Great Trails State Program grant.
- Permits submitted.
- **Note:** Construction will pause during 2025 firearm deer season and resume in 2026.





# The Peak

- Beginning preliminary alignment planning for NPST on The Peak.
- Engaging landowners interested in selling land for addition to Elk Knob State Park and NPST.





# Elk Knob

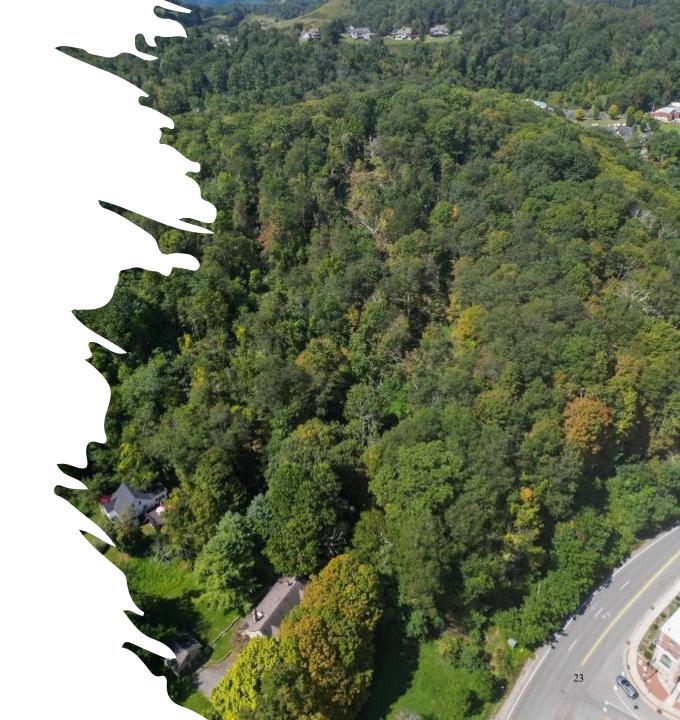
- Projects paused while State Parks recover from Helene damage in western parks.
- NPST projects at Elk Knob are a top priority once normal operations resume.





# Boone

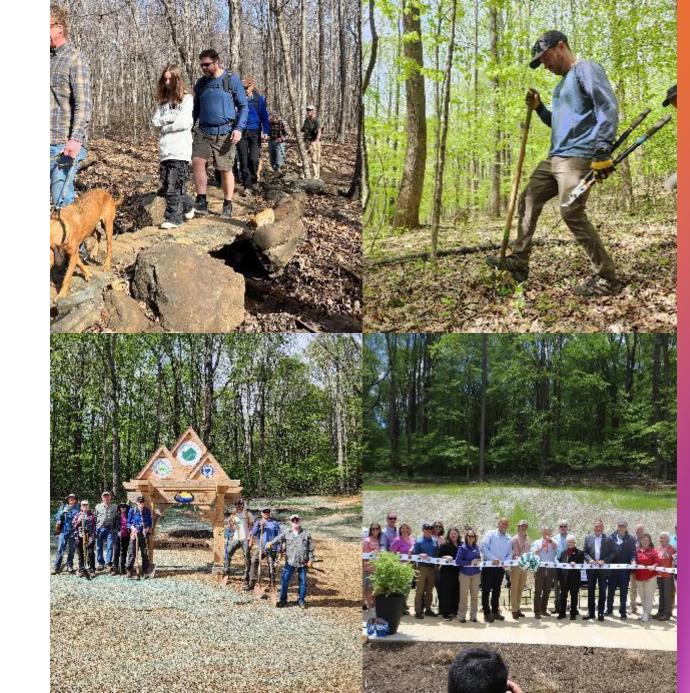
- Awarded \$54,932
   Recreational Trails Program grant to build 1 mile of trail at Rivers House Park, creating the southern terminus of NPST.
- Groundbreaking ceremony scheduled for **November**7.





## Community Engagement

- \$250,000 in public grants awarded.
- \$77,030 in private donations secured.
- 15+ community hikes hosted.
- Numerous presentations, including Ashe Chamber, Alleghany Sparta Trails Association, and High Country Association of Realtors.





## **AGENDA ITEM 6:**

## APPALCART FY26 ROAP GRANT APPLICATION AND UPDATE

## **MANAGER'S COMMENTS:**

Mr. Craig Hughes, Transportation Director for AppalCART, will present information regarding the FY 2026 Rural Operating Assistance Program (ROAP) application. The total allocation to Watauga County for FY 2026 is \$181,556, representing a reduction from the prior year.

The funding is divided into three components: Elderly and Disabled Transportation Assistance Program (EDTAP) - \$74,414, Employment (EMPL) - \$12,449, and Rural General Public (RGP) - \$94,693. No local match is required for any portion of the ROAP funds.

ROAP funding supports demand response trips for elderly, disabled, and low-income individuals, with over 30,000 such trips provided by AppalCART last year. A committee consisting of representatives from Watauga County Project on Aging, Department of Social Services, Watauga Opportunities, Inc., and AppalCART reviewed the proposed distribution and recommended transferring \$25,000 from RGP to EDTAP to better meet local needs.

Mr. Hughes will also provide a brief update on AppalCART operations and services.

Board action is requested to approve the FY 2026 Rural Operating Assistance Program (ROAP) application.

October 8, 2025

Mr. Deron T. Geouque, County Manager Watauga County Administration Building 814 W. King Street, Suite 205 Boone, NC 28607

#### Dear Deron:

AppalCART would like to request Watauga County consider approval of the FY 2026 Rural Operating Assistance Program (ROAP) application. The State has decreased the amount allocated to Watauga County for FY 2026 to \$181,556. The funding is split into three (3) categories: Elderly and Disabled Transportation Assistance Program (EDTAP) \$74,414, Employment (EMPL) \$12,449, and Rural General Public (RGP) \$94,693. A match is no longer required for any of the ROAP funds.

There were over 30,000 demand response trips provided by AppalCART last year. ROAP funds will help provide most of these types of trips for elderly, disabled, and low income individuals.

Note: RGP services are not limited to specific groups. The RGP routes run twice per day Monday-Friday.

A committee comprised of representatives from Watauga County POA, Watauga County DSS, Watauga Opportunities, Inc., and AppalCART was consulted concerning the distribution of the funds to identify the greatest benefit to the county by making sure current service levels are maintained.

	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>
DSS E&D	\$25,000	\$25,085	\$25,000	\$25,000
POA E&D	\$4,500	\$19,500	\$19,500	\$19,500
AppaiCART E&D	\$25,348	\$10,348	\$8,258	\$9,414
WO E&D	\$20,500	\$20,500	\$20,500	\$20,500
RGP (AppalCART)	\$102,850	\$103,119	\$97,476	\$94,693
Employment (WOI)	\$16,414	<u>\$16,434</u>	\$14,667	\$12,449
Total	\$194,612	\$194,986	\$185,401	\$181,556

Transfer \$25,000 from AppalCART RGP to EDTAP for POA E&D

Note: A plan for distribution is not required as part of the application.

The AppalCART Board will consider endorsement of how to distribute the funds at their October 27, 2025 Board meeting.

AppalCART appreciates the Commissioners consideration of this Certification Statement for the ROAP disbursement from NCDOT.

Sincerely,

Craig Hughes

**Transportation Director** 

# CERTIFIED STATEMENT FY2026 RURAL OPERATING ASSISTANCE PROGRAM

### County of Watauga

WHEREAS, the state-funded, formula-based Rural Operating Assistance Program (ROAP) administered by the North Carolina Department of Transportation, Integrated Mobility Division provides funding for the operating cost of passenger trips for counties within the state;

WHEREAS, the county uses the most recent transportation plans (i.e., CCP, CTIP, LCP) available and other public involvement strategies to learn about the transportation needs of agencies and individuals in the county before determining the sub-allocation of these ROAP funds;

WHEREAS, the county government or regional public transportation authorities created pursuant to Article 25 or Article 26 of Chapter 160A of the General Statutes (upon written agreement with the municipalities or counties served) are the only eligible recipients of Rural Operating Assistance Program funds which are allocated to the counties based on a formula as described in the Program Guidelines included in the ROAP State Management Plan. NCDOT will disburse the ROAP funds only to counties and eligible transportation authorities and not to any sub-recipients selected by the county;

WHEREAS, the county finance officer will be considered the county official accountable for the administration of the Rural Operating Assistance Program in the county, unless otherwise designated by the Board of County Commissioners;

WHEREAS, the passenger trips provided with ROAP funds must be accessible to individuals with disabilities and be provided without discrimination on the basis of national origin, creed, age, race, or gender (FTA C 4702.1B, FTA C 4704.1A, Americans with Disabilities Act 1990); and

WHEREAS, the period of performance for these funds will be July 1, 2025 to June 30, 2026 regardless of the date on which ROAP funds are disbursed to the county.

## NOW, THEREFORE, by signing below, the duly authorized representatives of the County of <u>Watauga</u> North Carolina certify that the following statements are true and accurate:

- The county employed a documented methodology for sub-allocating ROAP funds that involved the participation of eligible agencies and citizens. Outreach efforts to include the participation of the elderly and individuals with disabilities, persons with limited English proficiency, minorities and low-income persons in the county's sub-allocation decision have been documented.
- The county will advise any sub-recipients about the source of the ROAP funds, specific program requirements and restrictions, eligible program expenses and reporting requirements. The county will be responsible for invoicing any sub-recipients for unexpended ROAP funds as needed.
- The county will monitor ROAP funded services routinely to verify that ROAP funds are being spent on allowable activities and that the eligibility of service recipients is being properly documented. The county will maintain records of trips for at least five years that prove that an eligible citizen was provided an eligible transportation service on the billed date, by whatever conveyance at the specified cost.
- The county will be responsible for monitoring the safety, quality, and cost of ROAP funded services and assures that any procurements by subrecipients for contracted services will follow state and federal guidelines.
- The county will conduct regular evaluations of ROAP funded passenger trips provided throughout the period of performance.
- The county will only use the ROAP funds to provide trips when other funding sources are not available for the same purpose or the other funding sources for the same purpose have been completely exhausted.

- The county will notify the Regional Grant Specialist assigned to the county if any ROAP funded services are discontinued before the end of the period of performance due to the lack of funding. No additional ROAP funds will be available.
- The county will provide an accounting of trips and expenditures in monthly reports to NCDOT Integrated Mobility Division or its designee. Back-up documentation is required to support the monthly reports, failure to provide documentation will affect future disbursements. The June report will be considered the annual report.
- Any interest earned on the ROAP funds will be expended for eligible program uses as specified in the ROAP application. The County will include ROAP funds received and expended in its annual independent audit on the schedule of federal and state financial assistance. Funds passed through to other agencies will be identified as such.
- The county is applying for the following amount of FY2026 Rural Operating Assistance Program funds: \*The total amount of allocated funds are identified in the Total Disbursement (columns L-O) on the allocation table. The amount of requested funds cannot exceed the amount of allocated (disbursed) funds listed in the application table. Funds are allowed to be transferred to ROAP programs as needed, according to transfer criteria. Transfers must be recorded in the monthly ROAP report in the month transferred.

State-Funded Rural Operating Assistance Program	Allocated*(Disbursed)	Requested
Elderly and Disabled Transportation Assistance Program (EDTAP)	<u>\$74,414</u>	<u>\$74,414</u>
Employment Transportation Assistance Program (EMPL)	<u>\$12,449</u>	<u>\$12,449</u>
Rural General Public Program (RGP)	<u>\$94,693</u>	<u>\$94,693</u>
TOTAL	<u>\$181,556</u>	<u>\$181,556</u>

Signature of County Manager/Administrator	Signat	ture of County Finance Officer
Printed Name of County Manager/Administrator	Printe	d Name of County Finance Officer
State of North Carolina County of Watauga		
		County Seal Here

WITNESS my hand and county seal, this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

## FY26 Rural Operating Assistance Program (ROAP) Application

Name of Entity (County)		Watauga County	
County Manager Name		Deron Geouque	
County Manager's Email		deron.geouque@watgov.org	
County CFO Name		Deron Geouque	
	CFO's Email	deron.geouque@watgov.org	
	Person Completing this Application (Applicant)	Craig Hughes	
	Applicant's Job Title	Executive Director	
	Applicant's Email Address	director@appalcart.com	
	Applicant's Phone Number	828-297-1300	
	Community Transportation System Name	AppalCART	
	Transit Contact Name	Craig Hughes	
	Transit Contact's Email	director@appalcart.com	
I ce adı sta any bei	ministration of the ROAP Progrete guidelines. I certify and und yother status reports required fore the due dates, the next souther certify that ROAP funds	Signature  pplication is complete and accurate ram, and the use of the ROAP funds lerstand that if the monthly and final by the Integrated Mobility Division heduled disbursement will be held will only be used for program purpoerational expenses. If it is determined to made.	in accordance with applicable all monthly milestone reports, and (IMD) are not submitted on or until all reports are submitted.
Tra	ansit Director:	Signature	Date:
Co	unty Manager:	Signature	Date:
Со	unty Finance Officer:	Signature	Date:

## **Application Instructions**

County officials should read the Program Administration Guide for Rural Operating Assistance Program (ROAP) which contains guidance on the administration of the ROAP Program and information about the preparation of grant applications.

- The application must be completed by an official of the county or his/her designee.
- **Answer choices** are in the (parenthesis) before each gray rectangle. Click on the **gray rectangle** and type each answer. If necessary, the text will automatically wrap to the next row.
- Please answer every question. Leave no blanks.
- If the county wishes to explain their response to any questions or provide more information, the county may include additional pages with this application form. All the pages of the application and any pages added by the applicant should be scanned into the same file.
- If there are questions regarding this application, contact the NCDOT-IMD Regional Grant Specialist assigned to the area served by the transit system.

## **FY26 ROAP Program Schedule**

**Application Deadline: October 24, 2025** 

Anticipated Funds Disbursement: Week of November 17, 2025\*\*

- \*\* Applications not uploaded into Smartsheet by October 24<sup>th</sup> will delay disbursement of funds until the application is submitted and reviewed.
  - Counties with unspent FY25 funds will retain the funds and the FY26 disbursement will be adjusted accordingly.
  - Counties with 5% or less in unspent funds are eligible for a second disbursement of any unspent funds from FY25. The ROAP formula will be used to determine the amount of funds each eligible county will receive.
  - Once IMD ROAP reconciliation begins in mid-August, any outstanding reports will be considered unspent funds
  - Monthly reports are due via SmartSheet 30 days following the reporting period (unless it falls on a weekend day i.e., July reporting period, report due August 30<sup>th</sup>

ROAP Reporting Period	ROAP Report Deadline
July 1 - 31, 2025	August 29, 2025
August 1 - 31, 2025	September 30, 2025
September 1 - 30, 2025	October 30, 2025
October 1 - 31, 2025	November 28, 2025
November 1 - 30, 2025	December 30, 2025
December 1 - 31, 2025	January 30, 2026
January 1 - 31, 2026	February 27, 2026
February 1 - 28, 2026	March 30, 2026
March 1 - 31, 2026	April 30, 2026
April 1 - 30, 2026	May 29, 2026
May 1 - 31, 2026	June 30
June 1 – 30, 2026	July 30, 2026

## **Management of ROAP Funds**

County governments or regional public transportation authorities created pursuant to Article 25 or Article 26 of Chapter 160A of the General Statutes (upon written agreement with municipalities or counties served) are the only eligible applicants for ROAP funds. As a recipient of ROAP funds, the county must implement administrative processes that will ensure the following:

- ROAP funds are expended on needs identified through a public involvement and/or planning process.
- ROAP funds are expended only on eligible activities as described in Appendix A of the ROAP Guidance.
- Supporting documentation of expenditures (software printouts, legible receipts, etc.) is required by all applicants.
- Transportation service recipients must meet eligibility requirements, and their eligibility is documented.
- Trips funded with ROAP funding are monitored and evaluated throughout the period of performance.
- ROAP funds received and expended are included in the local annual audit.

Counties have the flexibility to determine how the funding will be used to meet the needs of the citizens and how to suballocate the funding to meet the transportation needs, but the guidelines for each program used must be followed and trips accounted for by program used.

ROAP Public Hearing is Not a State Requirement			
Please Provide These Documents, Only If Required Locally			
1. Public Hearing Notices languages (N/A, English Only, English & Spanish)	N/A		
2. Public Hearing Affidavit (N/A, Attached)	N/A		
3. Was the Public Hearing Notice published within 7-14 days of the hearing? (N/A, Yes, No)	N/A		
4. Public Hearing Record (N/A, Attached)	N/A		
5. Public Hearing Minutes (N/A, Attached)	N/A		
6. Title VI Survey (N/A, Offered but None Completed, Attached)	N/A		

### **Grant Administration**

- What Public Transportation Plans are available for your area? (Community Coordinated Plan (CCP), Locally Coordinated Plan (LCP), Statewide Locally Coordinated Plan (SLCP), Other Plans – (List all that apply)) CCP 2011, SLCP, and Comprehensive Service Review 2020
- 2. Did the County/Authority ask the Community Transportation Advisory Board (TAB) to recommend how the ROAP funds should be suballocated? (Yes/No) Yes
  - 2a. If no, how were recommendations made and by whom (Describe)
  - 2b. How many individuals assisted in the determination? (List number here) 5
- 3. Were outreach efforts conducted to inform agencies about the availability and eligibility of ROAP funds and to discuss transportation needs PRIOR TO the county deciding how to suballocate the ROAP funds? (N/A, Yes-Outreach Conducted, No Outreach) Yes

#### **Financial Management**

- 1. Does the county pass through any ROAP funds to governmental or non-profit agencies or organizations? (If the County/Authority passes through any ROAP funds, they should have a written agreement between them which addresses the proper use and accountability of these funds.) (List all that applies: N/A, EDTAP, EMPL, RGP) EMPL
- 2. Do any of the organizations or departments receiving ROAP funds plan to use private transit contractors to provide the ROAP funded trips? (*Their procurement practices will need to meet all federal and state requirements for procurement of professional services.*) (List all that applies: No Private Contractor Used, Yes for EDTAP, EMPL, and/or RGP) No
- Are ROAP funds deposited in an interest-bearing account? (Ensure interest earned on the funds will be retained by the transportation program and must be used for transportation related expenses) (Yes, No) No
- 4. Do you have local financial support that will prevent discontinuation of services? (Trips may be limited but cannot stop altogether due to lack of ROAP funds.) (Yes, No) Yes
- 4a. If **No**, how will you continue to offer trips after ROAP funds are exhausted? (Please describe.)

### **Monitoring and Oversight Responsibilities**

- 1. Subrecipients of ROAP funds are required to provide sufficiently detailed progress reports and statistical data about trips provided and rider eligibility with ROAP funds. Are you receiving these? (The County must be prepared to provide documentation that an eligible citizen was provided an eligible service or trip on the billed date, by whatever conveyance, at a specific cost.) (Yes, No) Yes
- 2. Will the ROAP allocation be used as matching funds for any of the following programs? (EDTAP funds may only be used for Enhanced Mobility of Senior & Individuals with Disabilities and must be properly tracked.)

5310 – Enhanced Mobility of Senior & Individuals with Disabilities Program-EDTAP (Operating only) (Yes, No) No

5310 – Enhanced Mobility of Senior & Individuals with Disabilities Program-EDTAP (Capital Cost of Contracting only) (Yes, No) No

5311 Operating only - Rural Area Formula Program (Yes, No) No

Rural State Operating Program (Yes, No) No

5311 Capital Cost of Contracting Program (Yes, No) No

- 3. Will fares be charged for a ROAP funded trip? (List all that applies: No-Fares not charged, Yes EDTAP, EMPL, and/or RGP Yes-RGP
- 4. Describe the eligibility criteria and documents used in this County to determine who will be provided ROAP-funded trips. (Please describe i.e. Driver's license check, professional assessment, etc.) POA transportation, POA E&D clients, Watauga Opportunities employment transportation, complimentary paratransit clients, and trips within Watauga County for RGP. Driver's license check.

## **AGENDA ITEM 7:**

## RISE CALDWELL-WATAUGA PROGRAM

## **MANAGER'S COMMENTS:**

Joe Furman, Director of Economic Development for the Boone Area of Commerce, will provide an overview of the new RISE Caldwell-Watauga program, a regional partnership initiative between CCC&TI, Caldwell County Schools, Watauga County Schools, and both counties' Economic Development Commissions. The program, scheduled to launch in January, will promote work-based learning opportunities for high school and community college students, including pre-apprenticeships and apprenticeships in high-demand fields such as health care, hospitality, construction trades, and manufacturing. CCC&TI recently completed a new training facility on its Watauga Campus to support health care and construction trades programs. The program's Executive Director, Tara Brossa, will attend the meeting to provide additional information and share slides highlighting program goals and implementation plans.

This item is presented for informational purposes only; therefore, no action is required by the Board.



## **Executive Summary**

Caldwell Community College and Technical Institute has recently launched **RISE (Regional Initiative for Skilled Employment) Caldwell-Watauga** to leverage it's partnerships to provide more students in our area with workbased and experiential learning opportunities.

Based on successful work-based learning projects like Surry-Yadkin Works, this initiative will help ensure that residents of Caldwell and Watauga counties can take advantage of these types of learning experiences to develop the skills and resources necessary for success in our area's workforce.

Additionally, this initiative will provide a variety of supports to help eliminate barriers that prevent high school students and adult learners from attaining postsecondary education and workforce credentials. Helping more students pursue postsecondary credentials through work-based learning experiences will also help to advance the educational attainment goals of Caldwell and Watauga counties in support of myFutureNC's 2030 attainment targets and, in doing so, promote the economic vitality of this area and the state more generally.

The mission of Caldwell Community College and Technical Institute (CCC&-TI) is to provide educational opportunities for the residents of Caldwell and Watauga counties, and this mission is advanced in large part through strong partnerships with our local school systems, economic development agencies, business and industry, and state partners such as myFutureNC.

## **Participation Targets: Year 1 - Year 3**

Caldwell Participant Targets	Watauga Participant Targets	Total Participant Targets
AY 25/26: 25 students	AY 25/26: 20 students	AY 25/26: 45 students
AY 26/27: 50 students	AY 26/27: 40 students	AY 26/27: 90 students
AY 27/28: 75 students	AY 27/28: 60 students	AY 27/28: 135 students
3-year Total: 150 Participants	3-year Total: 120 Participants	3-year Total: 270 Students

# Partner Agencies











**RISE Caldwell-Watauga** is led by an Executive Board composed of the college's president, the superintendents of Caldwell County and Watauga County school systems, and the economic development directors of Caldwell and Watauga counties.

This board provides oversight to the Executive Director, Career Pathways who facilitates work-based learning opportunities for students in each county by working with business and industry partners to develop

pre-apprenticeships, apprenticeships, and internships.

The Executive Director also works with college and high school staff to promote and place students in work-based learning opportunities and coordinate these learning experiences with the educational programming provided by the college and its partnering school systems.

### **RISE Caldwell-Watauga**

will help close achievement gaps for underrepresented populations by lessening the financial barriers for students to pursue postsecondary education and credentials.

By including our local school systems, economic development agencies, and business and industry partners

# The college will utilize several strategies to achieve these participant targets, including:

- Coordinated promotional efforts to make students aware of the benefits of participating in the initiative.
- Regular advising for participating students to ensure the successful completion of their work-based learning experiences.
- Financial supports for participating students, including stipends for travel and other expenses associated with participation in the initiative.
- Incentives for participating employers.
- Coordinated academic programming to provide participants with opportunities to develop professional and leadership skills that enhance their work-based learning.

in every aspect of its implementation, this initiative is a cross-sector collaboration that encourages the buy-in and support of all key stakeholders.

By intentionally using the potential for work-based and experiential learning to engage and encourage students to pursue postsecondary education and credentials, this initiative takes an innovative approach to increasing educational attainment and supporting workforce development.

## For more information contact:

## **Tara Brossa**

## **Executive Director, RISE Caldwell-Watauga**

Caldwell Community College and Technical Institute 2855 Hickory Blvd Hudson NC 28638 tbrossa@cccti.edu

## Find us online at:

https://www.linkedin.com/company/rise-caldwell-watauga

OI

Scan the Code:



## **AGENDA ITEM 8:**

# NC DEPARTMENT OF MILITARY AND VETERANS AFFAIRS GRANT FOR VETERANS SERVICES

## **MANAGER'S COMMENTS:**

Ms. April Goodman, Director of Veterans Services, will request Board approval for the North Carolina Department of Military and Veterans Affairs Grant. The funds from this grant will be used to support advertising, software, educational programs, and outreach materials designed to enhance services for veterans residing in Watauga County. The deadline for submission is October 24, 2025.

Board action is requested to approve the submission of the application for the NC Department of Military and Veterans Affairs Grant.



# WATAUGA COUNTY

Department of Veterans Services

126 Poplar Grove Connector, Suite 203 • Boone, North Carolina 28607

- April Goodman Veteran Service Officer
  (Accredited with NCDMVA, AL VFW, NCACVSO and Nationals)
  - Jennifer Kemp Assistant VSO

Date: October 14, 2025

To: Whom It May Concern

From: April Goodman, Watauga County Veterans Service Officer

Subject: Request for Approval - NC Department of Military and Veterans Affairs Grant

Watauga County Veterans Service Office respectfully requests approval for the NC Department of Military and Veterans Affairs Grant. Funds from this grant will be used to support advertising, software, educational, and outreach materials to enhance services for veterans within Watauga County.

If approved please complete the necessary documents within the attached packet and return to my office. Approved packet has to be submitted by October 24, 2025.

Thank you for your consideration of this request.

Sincerely,

April Goodman Watauga Co. VSO

Phone (828) 265-8065; FAX (828) 265-8086; TTY 1-800-735-2962; Voice 1-800-735-8262



# APPLICATION-CONTRACT GRANT PROGRAM FOR COUNTY VETERANS OFFICES

## **BACKGROUND:**

Session Law 2023-134, Section 33.13(a) directed the North Carolina Department of Military and Veterans Affairs (NCDMVA) to establish a grant program for existing county veterans offices (CVOs) to provide services to veterans. A grant may be awarded up to \$20,000. To be eligible for the grant program, the CVO must be located in a county where there are eight (8) or less certified veteran service officers (VSOs). The VSO may be an employee of or volunteer with the federal government, State of North Carolina, county, or an entity in the county, including a nonprofit organization. NCDMVA will verify the presence of eight (8) or less certified VSOs in the county through the United States Department of Veterans Affairs (USDVA) prior to awarding a grant.

# Instructions:

The County Veterans Office (the "RECIPIENT") will complete the **PART I – RECIPIENT SECTION** of this document, including Attachments. The RECIPIENT will have an authorized official complete the **PART IV – EXECUTION SECTION** of this document.

The RECIPIENT shall complete and submit the following documents:

- Attachment A Scope of Work and Budget
- Attachment B W-9 Form
- Attachment C Electronic Payment/Vendor Verification Form
- Attachment D Conflict of Interest Policy (sample)
- Attachment E Sworn (notarized) Certification of No Overdue Tax Debts
- Attachment F State Grant Compliance Reporting
- Attachment G Grant Certification
- Attachment H Closeout Reporting Document

Upon receipt and approval of this completed document and attachments, NCDMVA will complete the **PART II – DMVA SECTION** of this document and have an authorized individual complete the **PART IV – EXECUTION SECTION** of this document.

Upon the execution page being signed in the **PART IV – EXECUTION SECTION** by both the RECIPIENT and NCDMVA (referred to collectively as the "PARTIES"), this document and all required attachments are incorporated herein and together constitute the contract agreement (Agreement) between the PARTIES.

## PART I - RECIPIENT SECTION:

Section 1: RECIPIENT Organization Information

County Name:

WATAUGA COUNTY

County Address:

126 POPLAR GROVE CONNECTOR SUITE 204 BOONE NC 28607

Recipient Contact:

APRIL GOODMAN

Contact Phone:

828-265-8065

Contact Email:

april.goodman@watgov.org

Grant Amount Request: \$ 20,000.00

(Up to \$20,000 - Final amount subject to allocation and appropriation of funds to NCDMVA)

#### Section 2: Award Amount

The award amount will not exceed \$20,000 per Session Law 2023-134, Section 33.13(a). The actual amount of the award is dependent on the number of eligible recipients as described in Part I, Section 4 of this document, and subject to the allocation and appropriation of funds to NCDMVA. The RECIPIENT's award amount can be found in Part II – Section 2 of this document, which will be finalized after the RECIPIENT completes all requirements within Part I – RECIPIENT SECTION (including Attachments A - E) and signs the execution page. (Attachments F-H will be completed post award as described below.)

## Section 3: Use of funds

As required by Session Law 2023-134, Section 33.13(a), CVO grant awards are for the purpose of providing services to veterans. A CVO may receive a grant award up to \$20,000 for this purpose. The RECIPIENT will use <a href="Attachment A: Scope of Work and Budget">Attachment A: Scope of Work and Budget</a>, to provide a scope of work regarding how grant funds will be utilized to serve veterans and a budget with a detailed description of proposed grant expenditures.

The RECIPIENT agrees to expend funds in accordance with the scope of work and budget cost items set forth in the RECIPIENT's approved budget. Upon written notification to NCDMVA, the RECIPIENT may reallocate or redistribute funds among budgeted line items in an amount not to exceed ten percent (10%) of the total approved budget without requiring NCDMVA's prior written approval.

Any reallocation or redistribution of funds exceeding ten percent (10%) of the total approved budget shall require the prior written approval of NCDMVA, documented as a written amendment to the contract agreement (Agreement) as described in Part III, Section 3 of this document.

## Section 4: Eligibility Requirements

The RECIPIENT confirms it meets the requirement as defined in Session Law 2023-134, Section 33.13(a) which dictates:

The CVO must be located in a county in which there are eight or less certified veteran service officers (VSOs). The VSO may be an employee of or volunteer with the federal government, State of North Carolina, county, or an entity in the county, including a nonprofit organization. DMVA shall verify the presence of eight or less certified VSOs in the county through the United States Department of Veterans Affairs prior to awarding a grant.

#### Section 5: Reporting Requirements

The RECIPIENT agrees and shall submit compliance reports and certify that all grant funds received or held are being used for the purposes for which the grant was awarded, and providing an accounting of all funds received. Such reporting shall be required at a minimum of once every six (6) months following the date on which funds are received and shall continue until all funds have been expended and accounted for to the satisfaction of NCDMVA. See <a href="Attachment F - Compliance Reporting and Attachment G- Grant Certification">Attachment F - Compliance Reporting and Attachment G- Grant Certification</a> for fashion of reporting.

Upon project completion (i.e., once RECIPIENT has expended all grant funds) or No later than **August 3, 2026**, whichever is sooner, the RECIPIENT shall submit, as prescribed by NCDMVA, the following information to **SVC\_DMVA\_FSD.grants@milvets.nc.gov**:

- (1) The unduplicated number of veterans served by the CVO.
- (2) The number of times each individual veteran was served by the CVO.
- (3) The services that were provided to veterans using the grant funds awarded to the CVO.

See Attachment H: Closeout Reporting Document for form and fashion of reporting the information above.

# PART II - NCDMVA SECTION:

Section 1: Eligibility Determination

It is the responsibility of NCDMVA to verify through the United States Department of Veterans Affairs that the RECIPIENT has eight (8) or less certified veteran service officers (VSOs). The VSO may be an employee of or volunteer with the federal government, State of North Carolina, county, or an entity in the county, including a nonprofit organization.

Section 2: Award Amount The RECIPIENT will hereby be awarded the amount of \$	. NCDMVA will disburse the full amount of
the grant award to the RECIPIENT within 30 days of NCDMVA's documentation, including attachments, in form and substance	
Section 3: Contract Information	

Once executed, this document will serve as the Agreement between the PARTIES. The Agreement number is \_\_\_\_\_\_.

Section 4: Period of Performance

The period of performance shall begin on the date this Agreement is fully executed by all parties (Contract Execution Date) and shall continue through June 30, 2026.

# PART III – OTHER CONTRACTUAL REQUIREMENTS:

Section 1: Compliance with Laws

All state grants are subject to corresponding statutes and rules, most notably the cost principles enunciated in the Code of Federal Regulations, 2 CFR, Part 200, N.C. Gen. Stat. 143C-6-23, and 09 N.C. Admin. Code 03M. The RECIPIENT shall be responsible for compliance with all laws, ordinances, codes, rules, regulations, licensing requirements and other regulatory matters that are applicable to the conduct of its business and work performance under this Agreement, including those of Federal, State, and local agencies having appropriate jurisdiction. Disbursement of funds is contingent upon RECIPIENT's compliance with the terms of this Agreement and any applicable federal or state requirements.

Section 2: Monitoring and Auditing

The RECIPIENT acknowledges and agrees that, from and after the date of execution of this Agreement and for five (5) years following its termination, the books, records, documents and facilities of the RECIPIENT are subject to being audited, inspected and monitored at any time by NCDMVA upon its request (whether in writing or otherwise). The RECIPIENT further agrees to provide NCDMVA staff and staff of the Office of State Auditor with access to financial and accounting records to support internal audit, financial reporting and related requirements.

#### Section 3: Amendments

This Agreement may be amended in writing which documents approval of changes by both the NCDMVA and the RECIPIENT. NCDMVA, in its sole discretion, may approve amendment requests to this Agreement.

A RECIPIENT may submit one (1) written amendment request to NCDMVA for an extension of the period of performance established under this Agreement. Any such extension requests must be made prior to the expiration of the current performance period and shall include justification or explanation for the requested extension. If approved, no extension shall extend the period of performance beyond July 31, 2026.

#### Section 4: Sub-Recipients

If the RECIPIENT grants to any sub-recipient, any of the grant funds awarded to the RECIPIENT under this Agreement, the RECIPIENT or sub-recipient is not relieved of any duties and responsibilities of this Agreement. Additionally, the sub-recipient agrees to abide by the standards contained in this contract and to provide information in its possession to all the RECIPIENT to comply with these standards.

#### Section 5: SITUS

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.

## Section 6: Termination of Agreement

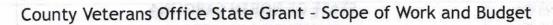
This agreement may be terminated by mutual consent upon sixty (60) days written notice to the other party, or as otherwise provided by law. As soon as possible following termination of this agreement, any residual, unexpended grant funds remaining at the end of the termination or the period of performance shall be returned to NCDMVA.

## PART IV - EXECUTION:

The undersigned represent and warrant that they are authorized to bind their principals to the terms and conditions of this Agreement. In Witness Whereof, the RECIPIENT and NCDMVA have executed this Agreement electronically, with each party retaining an electronic version. This Agreement shall be effective as of the date of the last party's signature.

## RECIPIENT NAME

AUTHORIZED SIGNATURE:	
BRAXTON EGGERS - Chairman	
Markety adds to and die all weathlianus 17019028 requi	
NC Department of Military and Veterans Affairs	
AUTHORIZED SIGNATURE:	
PRINTED NAME AND TITLE:	
DATE	



# Scope of Work and Budget with Detailed Description

Pursuant to Part I, Section 3 of the Agreement, please provide a scope of work and budget with detailed description for the use of the maximum amount of \$20,000 even though the award amount may be less.

# WATAUGA COUNTY - EXPENDITURE JUSTIFICATION (FY 2025-2026)

# Based on 2 CFR Part 200 (Uniform Guidance)

Expense Item	Amount (\$)	Justification	Relevant 2 CFR § Reference
High Country Adventures – Radio & Digital Advertising to Target Veterans	15,000	Advertising to inform and engage veterans in county programs is an allowable public outreach cost if related to program objectives and not general promotion.	program outreach, recruitment, and public awareness are
ChatGPT Pro Subscription	200	Software tools used to develop, analyze, or communicate program materials may be allowable if necessary for program administration or training.	§200.453 Materials and supplies costs, including costs of computing devices — Software services are allowable if essential to the project.
Outreach and Educational Materials	1,300	Costs of producing educational materials to inform or train participants and the public on program benefits are allowable.	§200.421 (Public information) and §200.472 Training and education costs — Outreach materials supporting program purposes are allowable.
Tablet for Training, Monthly County and State Meetings	3,000	Tablets are computing devices necessary for training, communication, and field coordination, essential for program efficiency.	§200.453 — Computing devices under \$5,000 per unit are treated as supplies and allowable if essential to the project.
License, Case, and Protective Cover	400	Accessories to ensure the functionality and longevity of equipment used for program purposes are allowable as part of supplies.	§200.453 — Ancillary supplies and accessories necessary for use of computing devices are allowable.
PIV Card Reader for Tablet	100	Secure access devices are required for compliance with data security and system access standards in government use.	§200.303 Internal controls — Costs supporting proper internal controls and security compliance are allowable.
TOTAL EXPENDITURES	20,000	All costs are reasonable, necessary, allocable, and conform to limitations set by federal and state cost principles.	§200.403 Factors affecting allowability of costs — Costs must be necessary, reasonable, and allocable to the program.

NC Office of the State Controller (IRS Form W-9 will not be accepted in lieu of this form) \*Denotes a Required Field

# STATE OF NORTH CAROLINA SUBSTITUTE W-9 FORM Request for Taxpayer Identification Number



	Em	ial Security Number (SSN OR ployer Identification Num OR ividual Taxpayer Identific	nber (EIN),	or ITIN) type and Identification Nu provide this info	d enter your 9-digit II umber is being reque rmation in a timely n or require The State	rer Identification Number (EIN, SSN, D number. The U.S. Taxpayer ested per U.S. Tax Law. Failure to manner could prevent or delay of NC to withhold 24% for backup
		DBA/Disregarded Entity		Numbering System	em (DUNS) (see insti	Dunn & Bradstreet Universal ructions):
			Col	ntact Information		
tion	*6. Legal Address					ally used for payment that is
lical	*Address Line 1:			Address Line 1:	al Address, if applica	ible)
ntil	ridai ess allie a			LIGHT E HWOLD		
lde	Address Line 2:	nd to communities	- Array Carrier Carrie	Address Line 2:		emento V ragan'
Taxpayer Identification	*City	*State	*Zip (9 digit)	City	State	Zip (9 digit)
	*County	isa inga satigga. Isa pakas satigga.	unolona	County		A death and
1-	*8. Contact Name:	Ass. Mercardunas ra	tel viene	and it is a mostle	1948,	and Databases
Section	*9. Phone Number:		TO HOUSE	energy and a second		
CF	10. Fax Number:		100 miles (100 miles (	ministra		The state of the s
Š	11. Email Address:	rai duri) izk nepi				
		*12. Ent	tity Type		*13. Entity  Classification	14. Exemptions (see instructions)
	Partnership  Limited liability S=S corporation  Note: Check the appropriate the companies of the companies o	Trust/Estate  Company. Enter the tax cl , P=Partnership)  Copriate box in the line about check LLC if the LLC is cowner unless the owner cowner for U.S. federal tax	Otheroassification (C=C corporation)  ove for the tax classifical lassified as a single-men of the LLC is another LLC	ation, tion of the single- nber LLC that is that is not	Medical Servi Legal/Attorne Services NC Local Govt Federal Govt NC State Ager Other Govt	Exempt payee code (if any):  Exemption from FATCA reporting code (if any):
		om the owner should chec			Other (specify	
Section 2 -Certification	2. I am not subjet (IRS) that I am subject to bact 3. I am a U.S. cit 4. The FATCA co	subject to backup withhold kup withholding, and izen or other U.S. person (d de(s) entered on this form (	ecause: (a) I am exempt fi ding because of a failure t efined later in general ins if any) indicting that I am	rom backup withholding, or o report all interest or divic tructions), and exempt from FATCA report	r (b) I have not been no dends, or (c) the IRS has ting is correct.	ued to me), and tified by the Internal Revenue Service s notified me that I am no longer
5		s: Please refer to the IRS Fo	orm W-9 located on the IF			
	*Printed Name:	\$200,403 Facture	nldnov	*Printe	ed Title:	
Š	*Authorized U.S. Signature:	allowshility a con	able, and		006,00	Date:

| Signature: | Please complete the Modification to Existing Supplier Records form if there have been any changes to the following: Tax Identification Number (TIN),

Legal Name, Business Name, Remittance Address.

If you would like to receive your payments electronically, please complete the <u>Supplier Electronic Payment</u> form.

Return all completed forms to the State Agency from which you are requesting payment.

#### **General Instructions**

For General Instructions, please refer to the IRS Form W-9 located on the IRS Website (https://www.irs.gov/).

#### Specific Instructions

## Section 1 - Taxpayer Identification

- 1. Taxpayer Identification Type. Check the type of identification number provided in box 2.
- 2. Taxpayer Identification Number (TIN). Enter taxpayer's nine-digit Employer Identification Number (EIN), Social Security Number (SSN), or Individual Taxpayer Identification Number (ITIN) without dashes.

Note: If an LLC has one owner, the LLC's default tax status is "disregarded entity". If an LLC has two owners, the LLC's default tax status is "partnership". If an LLC has elected to be taxed as a corporation, it must file IRS Form 2553 (S Corporation) or IRS Form 8832 (C Corporation).

- 3. Unique Entity Identifier or DUNS Number. Suppliers are requested to enter their Unique Entity ID number or D S um er created in SAM.gov, if applicable.
- 4. Legal Name. Enter the legal name as registered with the IRS or Social Security Administration. or in i i uals enter tie name of tie person of ill of usiness it tie State of Classic appears on tie Social Security Carl or otier reliable eight enter tie name of tie person of ill of usiness it tie State of Classic appears on tie Social Security Carl or otier reliable eight enter tie name of tie person of ill of usiness it tie State of Classic appears on tie Social Security Carl or otier reliable eight enter tie name of tie person of ill of usiness it tie State of Classic appears on tie State of Class
- 5. Business Name. Business, Disregarded Entity, trade, or DBA ("doing business as") name.

#### **Contact Information**

- 6. Enter your Legal Address.
- 7. Enter your Remittance Address, if applicable. A Remittance Address is the location in which you or your entity receives business payments.
- 8. Enter the Contact Name.
- 9. Enter your Business Phone Number.
- 10. Enter your Fax Number, if applicable.
- 11. Enter your Email Address

For clarification on IRS Guidelines, see www.irs.gov.

- 12. Entity Type. Select the appropriate entity type.
- 13. Entity Classification. Select the appropriate classification type.

#### Exemptions

If you are exempt from backup withholding and/or FATCA reporting, enter in the Exemptions box, any code(s) that may apply to you. See Exempt payee code and Exemption from FATCA reporting code below.

14. Exempt payee code. Generally, individuals (including sole proprietors) are not exempt from backup withholding. Corporations are exempt from backup withholding for certain payments, such as interest and dividends. Corporations are not exempt from backup withholding for payments made in settlement of payment card or third party network transactions.

Note. If you are exempt from backup withholding, you should still complete this form to avoid possible erroneous backup withholding.

The following codes identify payees that are exempt from backup withholding:

- 1 An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2)
- 2 The United States or any of its agencies or instrumentalities
- 3 A state, the District of Columbia, a possession of the United States, or any of their political subdivisions, or instrumentalities
- 4 A foreign government or any of its political subdivisions, agencies, or instrumentalities
- 5 A corporation
- 6 A dealer in securities or commodities required to register in the United States, the District of Columbia, or a possession of the United States
- 7 A futures commission merchant registered with the Commodity Futures Trading Commission
- 8 A real estate investment trust
- 9 An entity registered at all times during the tax year under the Investment Company Act of 1940
- 10- A common trust fund operated by a bank under section 584(a)
- 11 A financial institution
- 12 A middleman known in the investment community as a nominee or custodian
- 13 A trust exempt from tax under section 664 or described in section 4947.

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

If the payment is for	THEN the payment is exempt for		
Interest and dividend payments	All exempt payees except for 7		
Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.		
Barter exchange transactions and patronage dividends	Exempt payees 1 through 4		
Payments over \$600 required to be reported and direct sales over \$5,0001	Generally, exempt payees 1 through 5 <sup>2</sup>		
Payments made in settlement of payment card or third party network transactions	Exempt payees 1 through 4		

<sup>&</sup>lt;sup>1</sup> See Form 1099-MISC, Miscellaneous Income, and its instructions.

Exemption from FATCA reporting code. The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements.

- A An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37)
- B The United States or any of its agencies or instrumentalities
- C A state, the District of Columbia, a possession of the United States, or any of their political subdivisions or instrumentalities
- D A corporation the stock of which is regularly traded on one or more established securities markets, as described in Reg. section 1.1472-1(c)(1)(i)
- E A corporation that is a member of the same expanded affiliated group as a corporation described in Reg. section 1.1472-1(c)(1)(i)
- F A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state
- G A real estate investment trust
- H A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940
- I A common trust fund as defined in section 584(a)
- J A bank as defined in section 581
- K A broker
- L A trust exempt from tax under section 664 or described in section 4947(a)(1)
- M A tax exempt trust under a section 403(b) plan or section 457(g) plan

#### Section 2 - Certification

To establish to the paying agency that your TIN is correct, you are not subject to backup withholding, or you are a U.S. person, or resident alien, sign the certification on NC Substitute Form W-9. You are being requested to sign by the State of North Carolina.

For additional information please refer to the IRS Form W-9 located on the IRS Website (https://www.irs.gov/).

<sup>&</sup>lt;sup>2</sup> However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney, and payments for services paid by a federal executive agency.

#### Attachment C

## NC Office of the State Controller

See instructions for return information.

Telephone: 919-707-0795

www.osc.nc.gov | ncfsepay@osc.nc.gov



Supplier Elect	ronic Payme	ent Request
----------------	-------------	-------------

■ New Add Request

☐ Change/Update Existing Account

■ Inactivate Existing Account

\*Denotes a required field

The State of North Carolina offers payees the opportunity to receive payments electronically through U.S. based banks. In addition to having the funds deposited electronically, you will also receive remittance information by e-mail. We require you to submit a copy of a voided check, bank statement, or a bank authorization letter on bank letterhead signed by a bank representative for account verification. \*TAX ID # or SSN \*PAYEE NAME \*REMITTANCE ADDRESS SUITE/ROOM # (AS PRINTED ON STREET YOUR INVOICE) ZIP CODE STATE CITY \*CONTACT NAME & TITLE PHONE NUMBER **NEW FINANCIAL INFORMATION** \*FINANCIAL INSTITUTION NAME: \*NAME ON ACCOUNT: \*NEW ROUTING NUMBER: \*NEW ACCOUNT NUMBER: Checking Savings \*ACCT TYPE: \*REMIT E-MAIL ADDRESS New add requests MUST include contact information for the state agency with which you are doing business. \*North Carolina Agency Contact Name: \*North Carolina Agency Name: \*North Carolina Agency Contact Phone Number: \*North Carolina Agency Contact Email Address: PRIOR FINANCIAL INFORMATION (only required for updates) FINANCIAL INSTITUTION NAME: NAME ON ACCOUNT: **ROUTING NUMBER:** ACCOUNT NUMBER: Checking Savings ACCT TYPE: **REMIT E-MAIL ADDRESS** ALL BOXES BELOW MUST BE REVIEWED AND CHECKED

I acknowledge that electronic payments to the designated account must comply with the provisions of U.S. law, and the requirements of the Office of Foreign Assets Control (OFAC). I affirm the entire amount of the payment will not be transferred to a foreign bank account.

I authorize the Office of the State Controller to initiate ACH payments, and if necessary, adjustments for any ACH payments in error, to the financial institution and account identified on the attached certification document. This authority will remain in effect until I, the

I have attached a copy of a current voided check, current bank statement, or a bank authorization letter on bank letterhead signed by a bank representative

\*DATE:

\*PHONE NUMBER:

supplier cancel it in writing or the authority is terminated by the NC Office of the State Controller.

\*PRINT NAME:

\*SIGNATURE:

- 1. \*Check the appropriate box at the top of the form:
  - New Add Request Supplier would like to begin receiving payments via ACH.
  - Change/Update Existing Account Supplier's account number, routing number, or remittance email address has changed.
  - Inactivate Existing Account Supplier no longer wants to receive payments via ACH.
- 2. \*Enter the supplier's Tax Identification Number or Social Security Number.
- 3. \*Enter the Payee Name The name of the person or business receiving payment.
- \*Enter the supplier's remittance address. The remittance address is the address printed on your invoice where payments should be sent.
- 5. \*Enter the supplier's contact name, title, and phone number.
- 6. \*Enter the supplier's financial information:
  - Financial Institution Name Name of the financial institution.
  - Name on Account The account owner's name.
  - Routing Number Nine-digit number identifying the financial institution.
  - Account Number The bank account number where the funds should be deposited.
  - Account Type Is this a checking or savings account? Check the appropriate box.
  - Remit E-mail address Enter the email address to which the remittance advices should be sent.
- 7. \*For a new add request only, provide the following:
  - North Carolina Agency Name The state agency the supplier is doing business with.
  - North Carolina Agency Contact Name The supplier's contact person name at the state agency.
  - North Carolina Agency Contact Email Address The contact person's email address at the state agency.
  - North Carolina Agency Contact Phone Number The contact person's phone number at the state agency.

NOTE: New add requests MUST include contact information for the state agency with which you are doing business.

- 8. Prior Financial Information this is required if the supplier's bank account, routing number, or remittance email address has changed.
  - Financial Institution Name Name of the prior financial institution.
  - Name on Account The account owner's name.
  - Routing Number Nine-digit number identifying the prior financial institution.
  - Account Number The bank account number where the funds were being deposited.
  - Account Type Is this a checking or savings account? Check the appropriate box.
  - Remit E-mail address Enter the email address to which the remittance advices were being sent.
- \*Review all the information in the 3 attestation boxes located above the signature area. All 3 boxes must be checked – otherwise the request will not be processed.
- 10. \*Print Name Print the name of the authorized signee on the form.
  - \*Date Date of signature.
  - \*Signature The authorized signee's signature.
  - \*Phone Number The authorized signee's phone number.

#### Return to:

OSC - NCFS Support | 1410 Mail Service Center | Raleigh, NC 27699-1410

OR FAX - 919.875.3804

Please allow up to 30 days for processing

WATAUGA

County Veterans Offices State Grant - Conflict of Interest Policy

# **County Veterans Office**

# **Conflict-of-Interest Policy**

The purpose of this policy is to ensure that the use of State of North Carolina grant funds awarded to the County Veteran Service Office (CVO) is free from actual or perceived conflicts of interest, in compliance with N.C. Gen. Stat 143C-6-23 and the North Carolina General Terms and Conditions. The purpose of the following policy is to prevent the personal interest of employees, officers, and directors of CVOs from interfering with the performance of their duties, or resulting in personal financial, professional, professional, and/or political gain on the part of such persons at the expense of CVOs.

County Veterans Service Office has adopted this conflict-of-interest policy.

The employees, officers, and directors of the WATA	CVO shall avoid conflicts of interest and
any conduct which may suggest the appearance of or a	ctual impropriety in the disbursement of funds.
the CVO and the North Carolina Department of Military staff member shall participate in the selection, award, or	s an officer, director, or employee; or (5) a person or
An employee, staff member, officer, or director is not grant if he or she receives only the salary or stipend with or service to the WATAUGA CO VETERANS OFFICE	deemed to benefit directly or indirectly from a contract or due to him or her in the normal course of employment
All employees, staff members, officers, and directors sh	nall be informed of this policy and provided a copy.
I certify that this is the current Conflict-of-Interest Police	cy of the Watauga Co. Vetrans Office
April Dorogan	10/14/2025
(Signature)	Date
APRIL GOODMAN VSO	
(Printed Name / Position Title)	

# County Veterans Offices State Grant - No Overdue Tax Debts 1

#### Instructions:

Grantee should complete this certification for all state funds received. Enter appropriate data in the yellow highlighted areas. The completed and signed form should be attached to the application contract for the grant funds and submitted to the North Carolina Department of Military and Veterans Affairs. A copy of this form, along with the completed application/ contract, will be kept at the North Carolina Department of Military and Veterans Affairs and available for review by the Office of the State Auditor.

Date of Certifica	tion of the state of the state of the General Lemma (1-2-200) and
To: The North Carolina Department of Milita	ary and Veterans Affairs
The North Carolina Department of Mills	
Certification:	
Lertify that WATAUGA COUNTY	does not have any overdue tax debts, as defined
by N.C.G.S. 105-243.1, at the federal, State,	or local level. We further understand that any person
	N.C.G.S. 143C-6-23(c) is guilty of a criminal offense
punishable as provided by N.C.G.S. 143C-10-	1 LUA LAV satisface and distributed the engine of the
	the CVD and the Horth Carelina Department of Military and V
I,, being duly	sworn, state that I am the authorizing official, of
arry of the following has a thi netal interest in t	
WATAUGA County, in	the State of North Carolina; and that the foregoing
certification is true, accurate, and comple	ete to the best of my knowledge and was made and inderstand that any misuse of State funds will be reported
Signature Authorizing Official	
	All employers, stall mumbers, pilisers, and sit reigns shall be
Sworn to and subscribed before me on the d	ay of the date of said certification.
(Notary Signature and Seal)	My Commission Expires:
(Notary Signature and Seal)	

If there are any questions, please contact the North Carolina Department of Military and Veterans Affairs, SVC\_DMVA\_FSD.grants@milvets.nc.gov – (984) 204-2980

<sup>&</sup>lt;sup>1</sup> G.S. 105-243.1 defines: "Overdue tax debt. – Any part of a tax debt that remains unpaid 90 days or more after the notice of final assessment was mailed to the taxpayer. The term does not include a tax debt, however, if the taxpayer entered into an installment agreement for the tax debt under G.S. 105-237 within 90 days after the notice of final assessment was mailed and has not failed to make any payments due under the installment agreement."

This information should be completed and submitted online by each grantee receiving less than \$25,000 in total grant funds.

# State Grants Compliance Reporting ≤ \$25,000

Each grantee receiving at least \$1 but less than \$25,000 should complete the basic information requested here relative to the organization, as well as the accounting for State funds received, used or expended, and a description of activities and accomplishments undertaken by the grantee with the State funds.

1. Organization: Organization Name:	WATAUGA CO VETERANS SERVICE OFFICE
Tax Identification #:	56-600-1816
Organization Fiscal Year End: (mm/dd/yyyy)	06/30/2026
Mailing Address (street, city, state, zip code):	126 POPLAR GROVE CONNECTOR, SUITE 203 BOONE NC 28607
Phone Number (area code + number):	828-265-8065
Fax Number (area code + number):	828-265-8086
Contact Person:	APRIL GOODMAN
Contact Person Title:	WATAUGA CO. VSO
E-Mail Address:	april.goodman@watgov.org

2. Preparer: [PLEASE INDICATE WHO PREPARED THIS INFORMATION BY CHECKING]	x	Employee	CPA/Accountant
Name of Preparer:	API	RIL GOODMAN	The state of the s
Phone Number:	828	3-265-8065	SHIRL HAND AND SHIP

Name of Board Member	Board Member Title
LONG THE COURT OF THE PARTY OF	2010, 1911, 1

Please answer the following	questions:					
What restrictions are place document does not identify included in the award docu	specific restrict	t by the grant av ions, please ide	vard document? If the gra ntify the intended use of t	ant award he grant	fund	ds as
Restrictions: NA						
5. Does the organization have	a Conflict of In	terest policy?		yes	X	no
Is the organization a for profit entity?			yes	X	no	
Please answer the following	questions:					(TVINTUS
7. Did the organization subgra	ant or pass down	n any funds to a	nother organization?	yes	X	no
If yes, answer the following:		T				
a. Name of Subrecipient	b. Progran	n Name	c. Amount Sub	granted		
manual Source carries (Carlor	stra la mini territa inversa.		n secular poetining van by v			

This information should be completed and submitted online by each grantee receiving less than \$25,000 in total grant funds.

<ol> <li>Financial Accounting: [Completed during this fiscal year]</li> </ol>	ete based on total dollars received,	used or expended from this grant
a. Receipts		
Funding State Agency	Grant Title	Total Receipts
b. Expenditures	a util sekantini inhos er, asi lisu se A nomini etca i etca e. Ibanesa i	nale sa roc juros entido com
	ategory	Dollar Amount
Salary/Wages/Benefits	,	
Contracted Services		
Supplies and Materials		Committee of the commit
Travel (example employee mileage,	meals, hotel)	in profite action (s) sen fill
Communication Costs (example tele	per Laury Carpett representation Co. L.	
Occupancy Costs (example rent, util	ities, repair and maintenance)	Sexery to horne and
Advertising and Promotions		Interbiga program
Insurance and Bonding	SHANDS PARKED IN WILL BELL	Cohousing white alls height [
Capital Outlay (example furniture/eq	uipment, data processing)	widmiki sporti. I
Grants and Contracts	COUG-C 92-020	Condender a rebasi grand
Fundraising		LEng Number
Other (provide description here):	Sene-Careara	madmun v obos imio 1
Total Expenditures	8-14000038464	Tichniad Paniani

# Unexpended cash balance (do NOT use with reimbursement grants)

	year cash balance			Excellence in section of the section
End of the year				Neurop of Fragonese
9. Program A	ctivities and Accom	plishments:		
In compliance w following is a de provided state fu	scription of activities	of G.S. 143C-6 and accomplish	-23, <i>Use</i> nments	e of State funds by non-State entities, the undertaken by our organization using the
	Original Goals		Brie	of Narrative of Program Accomplishments
				Control opins are a still to the control of the state of
			out of	
				Level of the selection

If there are any questions, please contact the State agency that administered your grant funds.

My Commission Expires: \_\_\_\_\_

# State Grant Certification and Sworn Statement

# 10/14/2025

Date	
Certification:	
We certify that the accompanying reports represent all financial of funds granted by the State of North Carolina to watauga veterans of Organization and that the expenditures reported were for the purposes approstate of North Carolina and in compliance with the applicable landocuments.	activity related to the receipt, use, and expenditure  FICE for the fiscal year ended 06/30/2026  MM/DD/YYYY  Opriated by the General Assembly or collected by the
The accompanying reports are presented on the cash basis of ac	counting and are supported by our financial records.
We understand that if it is found the expenditures reported wer grantor agency shall report such findings to the Attorney General Office of the State Auditor, and the Office of the State Controlle malfeasance, misfeasance, or nonfeasance in connection with the State Budget and Management to the Attorney General and States	al, the Office of State Budget and Management, the r. Any apparent violations of a criminal law or ne use of State funds shall be reported by the Office of
DERON GEOUQUE being duly sworn, say that we a Name of Authorizing Official  WATAUGA COUNTY of BOONE in the NC Name of Organization City  true, accurate and complete to the best of our knowledge and wand understand that any misuse of State funds will be reported	re the COUNTY MANAGER, respectively, of Title of the Authorizing Official; and that the foregoing certification is State was made and subscribed by us. We also acknowledge to the appropriate authorities for further action.
Signature – Fiscal Officer	Date
Deron Geouque. Printed Name	
Signature – Authorizing Official  BRAXTON EGGERS  Printed Name	Date
Sworn to and subscribed before me on the day of the date of sa	id certification.
(Notary Signature and Seal)	

## Attachment H - Closeout Reporting Document

County Veterans Offices State Grant - RCloseout Reporting Document

As specified in Part 1, Section 5 of the Agreement, upon project completion (i.e., once RECIPIENT has expended all grant funds) or no later than 5:00 p.m. on August 3, 2026, whichever is sooner, RECIPIENT shall provide to the North Carolina Department of Military and Veterans Affairs via email at <a href="mailto:SVC\_DMVA\_FSD.grants@milvets.nc.gov">SVC\_DMVA\_FSD.grants@milvets.nc.gov</a> with the following information:

The unduplicated number of veterans served by the County Veterans Office.	[enter number]
	To standing reports are presented on the cat ( nosts of a
	Line created that the latest expendit [reduced the expendit content of the squency shall report out handings to the Anni ory General to the State Auditor and the Office or the State Content in with a second that the Another Content Statest and Management to the Another Content and Statest and Management to the Another Content and Statest and Statest and Management to the Another Content and Statest
The services that were provided to veterans	[enter description of all services provided]
using the grant funds awarded to the County Veterans Office.	OM and a services provided to a service
to the appropriate authorities or further assists	padern and that any misses of State Burds will be reported
Bols	TRAITED Hazers — what is
	- ALPHONE GOOD
614.0	Talamo ananomia e non
	ANTON HOGERGE
	s to wish sur to yet any as am mater begins as a pas of e-ye

Please add additional pages if needed.

## **AGENDA ITEM 9:**

# <u>DEPARTMENT OF SOCIAL SERVICES – FOSTER CARE PLACEMENT CHALLENGES</u>

## **MANAGER'S COMMENTS:**

The Department of Social Services (DSS) continues to face challenges from the statewide foster care placement crisis. Staff have shown great dedication, often caring for children overnight in the DSS facility, which is not designed or equipped for that purpose. The Fire Marshal has requested a plan for modifications if this continues.

Possible solutions include using a County-owned home or partnering with Isaiah 117 House for temporary housing, compensating social workers with overtime pay, and repurposing an existing Income Maintenance Caseworker position to a Family Support Worker role at no additional cost to the County. The upcoming DSS Director's retirement further highlights the need for strong leadership familiar with these challenges.

This item is presented for informational purposes only; therefore, no action is required by the Board.



# Watauga County Department of Social Services

SOCIAL SERVICES BOARD Reagan Breitenstein, Chair Tiffany Christian Matthew Rollins Tim Hodges, Commissioner 132 POPLAR GROVE CONNECTOR – SUITE C BOONE, NORTH CAROLINA 28607 Telephone 828-265-8100 TDD 1-800-735-2962 Voice 1-800-735-8262 Fax 828-265-7638

Tom Hughes Director

# DSS Agenda

# Foster Care Placement Crisis in North Carolina

- 1. Gratitude for commissioner support and concern regarding this crisis. Gratitude for passionate social workers, who have risen to the occasion. Gratitude for the leadership of excellent supervisors.
- 2. Discussion regarding FC children staying overnight at DSS facility.
  - a. Current DSS facility is not designed for overnight care of a child.
  - b. Social Workers working around to clock when children are present.
  - c. Building does not have the proper amenities to properly care for children, (showers, sleeping quarters, security, etc.)
  - d. Recent Fire Marshal visit requesting plan and facility mods.

# 3. Proposed solutions:

- a. County owned home to house children waiting on placements
- b. Isaiah House 117 option

- c. County paid overtime to social workers working around clock instead of comp-time build up.
- d. More pressure applied on those who are responsible for securing leveled placements in a timely fashion.
- 4. Repurpose a current IMC (Income Maintenance Caseworker) position to a Family Support Worker position. Same grade level and will be of no extra cost to county.
- 5. DSS Director retirement and the importance of selecting a person who is aware of the current N.C. hurdles and a vision for the future.

## Summary Of Letter Sent to NCDHHS:

Over the last two years, Watauga DSS has had an increase of situations that have required children to stay overnight at the DSS office – an ongoing problem across the state. For a small agency like Watauga DSS, having ongoing overnight crisis situations becomes almost impossible to manage. In order to ensure the safety of these children, and for the protection of the social workers, at least two workers are required to be present at all times when a displaced child is living in a DSS office. This means each social worker typically works a 4- or 5-hour afterhours/overnight shift, in addition to their regular daytime functions, to ensure round-the-clock care for children at DSS. There have been occasions in which Watauga DSS has had to keep this schedule for up to two straight weeks. When there is only a total of 12 social workers to serve the entire county, this becomes challenging at best. This results in most social workers only getting a few hours of sleep between working an overnight shift to supervise a child, and then returning to the office to complete their regularly assigned duties during the workday.

In smaller counties like Watauga, there is no other option for someone to step in for these overnight shifts – it always falls on the shoulders of the county social workers. Even when there are no children staying at DSS overnight, social workers are already consistently working over 40 hours a week just to meet the demands of their day-to-day job. When there are crisis situations that require children to stay at the office due to a lack of placements state-wide, social workers end up working all day and all throughout the night. This does not stop until a placement is found. Finding placements has become a weeks-long process due to there being a severe lack of placements in the state of North Carolina.

Watauga DSS believes that this must first be addressed at the state level, because this is a state issue. County DSS's do not have any ability, power, or control to increase the number of Level II and Level III placements to meet this need.

Watauga DSS has requested that NCDHHS consider setting the following targeted and measurable goals statewide to address this concern:

- The NCDHHS DSS monthly Hot Topic should always start with a discussion provided to all 100 counties containing all of the steps that were taken that month by NCDHHS to increase the number of level II and III therapeutic foster placements in the state of North Carolina. This information should be shared with each county's Board of Commission, the Governor, and NC Legislative Leaders of both Houses each month.
- We request that NCDHHS set a goal of working with current placement providers, as well as recruit and develop new providers, to increase the current amount of level II & III placements by 100% by October 2027.
- We request that NCDHHS create a review panel to review behavioral placement discharges from level II & III placements. This panel should be required before a provider discharges a child for behavioral concerns. More and more children are being

- discharged to DSS offices for demonstrating the precise behaviors that these treatment facilities are licensed to treat.
- We request that NCDHHS make it a statewide policy that placement providers & facilities cannot interview children prior to placement. Every child being referred to level II or III care has a Comprehensive Clinical Assessment (CCA), which provides the information of the child to the facility, including diagnosis, behaviors, family history, etc. We're asking for this policy to be established to prevent private placement agencies from being able to "cherry pick" children for their facilities.
- We request that NCDHHS set a goal to have family preservation services available to every county at a capacity that every referral made will lead to services being available within 48 hours of that referral. We would like for NCDHHS to set a goal of increasing family preservation services by 200% by October 2027.
- We would request that NCDHHS provide staff to help stay with children at DSS offices within 24 hours of children being without placement. By having on-site support from NCDHHS, we can truly say we are in this together. Unfortunately, as it stands now, this weight is placed directly on the county with no additional support.

The social workers at DSS's across the state, and especially here in Watauga County, are passionate about the job that they do, but they can't do it alone. Unfortunately, in this ongoing foster care crisis, they have felt very alone at the county level and have not felt much direct, or indirect, support from the state level. Watauga DSS has asked that NCDHHS put every effort into solving this crisis that is directly affecting some of the most vulnerable children in the state.

## **AGENDA ITEM 10:**

# **EMERGENCY SERVICES MATTERS**

A. Bid Award Request for Powder Horn Tower

## **MANAGER'S COMMENTS:**

A Request for Proposals (RFP) was issued for a firm to provide a self-supporting communications tower as outlined in the tower procurement documents for the Powder Horn tower site. Three proposals were received from K-Co Enterprises, Inc., Built Construction LLC, and Custom Tower.

After review, staff recommends K-Co Enterprises, Inc. as the lowest responsive bidder. The County's radio system consultant and the primary site construction contractor both have prior positive experience with K-Co and express no reservations regarding their performance.

The total proposed cost is \$251,366.50, with an additional \$3,000 per cubic yard for rock removal in the foundation if required. Sufficient funds are available in the simulcast system construction budget to cover this expense.

Board action is requested to award the bid for the Powder Horn Tower to K-Co Enterprises, Inc. in the amount of \$251,366.50, plus \$3,000 per cubic yard for rock removal if required.



# **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

October 13th, 2025

To: **Board of Commissioners** 

CC: Deron Geouque, County Manager

Katie Hancock, Clerk to the Board

Subject: Bid Award Request for Powder Horn Tower

Board of Commissioners,

A Request for Proposals was issued for a firm to provide a self-supporting tower as delineated in the tower procurement documents for the Powder Horn tower site. The County received three proposals from K-Co Enterprises, Inc., Built Construction LLC, and Custom Tower. After review, staff recommends K-Co Enterprises, Inc. to the Board of Commissioners for your approval as the lowest responsive bidder. Both the County's radio system consultant and the primary contractor for site construction have prior experience with K-Co with no reservations. The cost of the K-Co proposal is \$251,366.50 plus \$3000/cubic yard for rock removal in the foundation. Funds have been budgeted in the construction budget for the simulcast system. Commissioner approval is requested.

Respectfully,

William Holt, MPA, CEM, NREMT-P **Emergency Services Director** 

# Watauga County

Request for Proposal (RFP)
Powder Horn Tower for the Watauga County
Public Safety Simulcast System

Due Date: October 10<sup>th</sup>, 2025

To: Will Holt, Emergency Services Director

814 West King Street Boone, NC 28607 828-264-4235 (P)

Email-Will. Holt@watgov.org

# **PURPOSE**

The County of Watauga is accepting sealed proposals from qualified individuals or firms for the provision of the tower for the Powder Horn site. The tower work shall be compliant with all federal, state, and local requirements as documented in the individual bid invitations and supporting documentation along with any other applicable building code requirements.

# **SCOPE**

Watauga County is constructing a public safety simulcast radio system with a combination of new and existing towers. Current towers must be brought up to designed load capacity in accordance with the requirements of the tower owner.

The successful bidder shall provide all management, supervision, personnel, engineering, equipment, tools, materials, subcontractors, transportation, permits and licensing necessary to meet the requirements set forth in the individual bid invitations for each site.

Architects must be properly licensed and registered as required by Chapter 83A of the North Carolina General Statutes. Engineering and Land Surveying consultants must be properly licensed and registered as required by Chapter 89C of the North Carolina General Statutes.

# PROPOSAL REQUIREMENTS

All questions related to this RFP shall be directed to:

Marty Randall, 10-18 Consulting 828-527-2416 Marty.Randall@1018consulting.com

Attachment A includes all pertinent construction documents. In addition, the County is requiring a mandatory site walk on September 30<sup>th</sup> at 11:00am meeting at the Emergency Services Department located at:

184 Hodges Gap Rd Suite D Boone, NC 28607

# **Proposal Content**

The written proposal should provide background information about the company, its employees, and its experience with related projects and clients. It should cover the experience of the firm as well as any consultants on the proposed team. For the purposes of the RFP, the term "company" shall refer to the prime respondent of this RFP or, in other words, the company with whom Watauga County will contract. The term "consultant" shall refer to all consultants which the

prime respondent will include on the project team. The proposal shall clearly delineate any experience, background, etc. between the prime "company" and "consultants."

Specifically, the RFP should address the following information. Firms may submit their standard qualification package supplemented by a cover letter or attachments as necessary to comply with this request.

Proposers shall possess all permits, licenses and professional credentials necessary to supply product and perform services as specified under this RFP. Minimum qualifications of the system designer and lead acceptance test personnel shall include both of the following:

### Firm's Submission

The firm's submission shall follow the guidance in each bid invitation. The County reserves the right to reject any and all proposals, and to terminate the Request for Proposals process at any time.

# SELECTION CRITERIA

## Selection Process:

The Emergency Services Director and the County's consultant will serve as the selection committee for all applicants deemed eligible and qualified, seeking the advice and input of such other local officials as they may deem appropriate. A recommendation will be made to the Watauga County Board of Commissioners for its approval.

## **Evaluation Criteria:**

By way of example, but not limitation, the following considerations will be utilized during the selection process from the submitted and eligible proposals:

- The thoroughness of the proposal regarding the tasks addressed in the Scope section of the RFP.
- The firm's experience in designing public safety towers and tower modifications
- The successful experience of the staff proposed to be assigned to this project to perform the type of work required.
- The firm's financial ability to undertake the work and assume liability for the project.
- The firm's proven ability to complete tasks on time.
- Project approach and methodology.
- Overall performance on past projects, as evidenced by previous contracts.
- Overall consideration of design elements.

Watauga County reserves the right, at its sole discretion, to accept a response that does not satisfy all requirements but which, in the County's sole judgment, sufficiently demonstrates the ability to produce, deliver, design, permit and construct a tower or tower modification to satisfy the major requirements set forth in this RFP. The County reserves the right to interview any or all respondents to this RFP, or to ask for additional information or clarifications. By completing

and submitting to Watauga County's RFP, the firm allows the County to call any person, business, group or organization that may have information to determine the firm's ability to complete the project as presented.

The County expects to complete its evaluation process to select a qualified partner, but reserves the right to change key dates and actions as the need arises.

# PROPOSAL AND SUBMISSION DEADLINES

Project schedule milestones and dates are as follows:

Milestone	Date	
Request for Proposals Published	September	17, 2025
Deadline for RFP Questions	September	26, 2025
Mandatory Site Walk	September	30, 2025
RFP Proposals Due Date	October	10, 2025
Board of Commissioners Hire Firm	October	21, 2025

Watauga County BIDDER: K-Co Enterprises, Inc.

WATAUGA COUNTY, NC	INVITATION FOR BIDS –Powder Horn	
<u>BID #</u>	Bids will be publicly opened: October 10th at 2:00pm	
	Questions Due by September 26 <sup>th</sup>	
Refer <u>ALL</u> Inquiries to: Marty Randall Telephone No. 828-527-2416	Commodity: Install New Tower at 340 Deer Run Road, Stony Fork NC 28607. Coordinates N 36 10 31.78, W 81 30 51.21	
E-Mail: marty.randall@1018consulting.com	Using Agency Name: Watauga County Emergency Services	
(See page 2 for mailing instructions.)	of the section is a graph of the section of the sec	

## **NOTICE TO BIDDERS**

Sealed bids, subject to the conditions made a part hereof, will be received at 814 W. King Street, Boone NC 28607 until 2:00 PM on the day of opening and then opened, for furnishing and delivering the commodity as described herein. Refer to page 2 for proper mailing instructions.

Bids submitted via facsimile (FAX) machine in response to this Invitation for Bids will not be acceptable. Bids are subject to rejection unless submitted on this form.

## **EXECUTION**

In compliance with this Invitation for Bids, and subject to all the conditions herein, the undersigned offers and agrees to furnish and deliver any or all items upon which prices are bid, at the prices set opposite each item within the time specified herein. By executing this bid, I certify that this bid is submitted competitively and without collusion (G.S. 143-54).

# Failure to execute/sign bid prior to submittal shall render bid invalid.

## Late bids are not acceptable.

BIDDER: K-Co Enteprises, Inc.		FEDERAL ID OR SOCIAL SECURITY NO. 26-1278195	
STREET ADDRESS: 613 Hurricane Creek Rd.	in who will regard	P.O. BOX:	ZIP: 29673
CITY & STATE & ZIP: Piedmont, SC 29673		TELEPHONE NUMBER: 864-947-8704	TOLL FREE TEL. NO (800)
PRINCIPAL PLACE OF BUSINESS ADDRESS IF DIFFERENT FF	ROM ABOVE (SEE INSTRU	JCTIONS TO BIDDERS ITE	M #21):
TYPE OR PRINT NAME & TITLE OF PERSON SIGNING: Ernest Rood - Project Manager	FAX NUMBER: 864-947-8204		
AUTHORIZED SIGNATURE: DATE:  Crosst Rood 10/9/25		E-MAIL: bids@kcoenterprises.com	

Offer valid for 120 days from date of bid opening unless otherwise stated here: \_\_\_\_\_ days

## **ACCEPTANCE OF BID**

If any or all parts of this bid are accepted by Watauga County, NC, an authorized representative of Watauga County, NC shall affix their signature hereto and this document and the provisions of the Instructions to Bidders, special terms and conditions specific to this Invitation for Bids, the specifications, and the North Carolina General Contract Terms and Conditions shall then constitute the written agreement between the parties. A copy of this acceptance will be forwarded to the successful bidder(s).

FOR Watauga County, NC USE ONLY			
Offer accepted and contract awarded this	day of	, 20 , as indicated on attached certification	ation,
<u>by</u>		(Authorized representative of Watauga County, NC).	

BIDDER:	K-Co Enterprises, Inc.

In an effort to support the sustainability efforts of Watauga County, North Carolina we solicit your cooperation in this effort.

## It is desirable that all responses meet the following requirements:

- All copies should be printed double sided.
- All submittals and copies should be printed on **recycled paper with a minimum post-consumer content of 30%** and indicate this information accordingly on the response.
- Unless absolutely necessary, all bids and copies should **minimize or eliminate use of non-recyclable or non re-usable materials** such as plastic report covers, plastic dividers, vinyl sleeves, and GBC binding. Three-ringed binders, glued materials, paper clips, and staples are acceptable.
- Materials should be submitted in a format which allows for easy removal and recycling of paper materials.

<u>MAILING INSTRUCTIONS:</u> Send two fully executed bid documents. Address envelope and insert bid name as shown below. It is the responsibility of the bidder to have the bid in this office by the specified time and date of opening.

DELIVERED BY US POSTAL SERVICE	DELIVERED BY ANY OTHER MEANS
	SEND SUCH AS FEDX, UPS, ETC. FOR NEXT DAY
814 W. King Street Boone, NC 28607	814 W. King Street Boone, NC 28607

# Watauga County, NC Tower Construction Project

Boone, North Carolina

<u>Scope of Work</u> – Watauga County, NC proposes to install a communications tower site per the following specifications at a site in Watauga County, North Carolina. All work shall comply with applicable North Carolina Building Codes and ANSI/TIA/EIA Standards. If the following Specification calls for a condition that is greater than the TIA/EIA Standards or North Carolina Building Codes, use the specifications shown in this document. All work shall be coordinated with Watauga County, NC. The tower and all appurtenances shall be installed and affixed with the highest quality of workmanship. The selected Contractor will advise Watauga County, NC's Contracting Officer and Marty Randall (10-18 Consulting 828-527-2416 <a href="marty.randall@1018consulting.com">marty.randall@1018consulting.com</a>) two weeks in advance of the date the work will start. The contractor will provide Marty Randall weekly project progress reports and immediately report any abnormal conditions encountered during construction.

As a minimum, the Tower and Foundation shall be designed to the requirements of ANSI/TIA/EIA-222-G, including released addendums. Design with Geotechnical Report provided, the tower manufacturer shall ensure the proper development of anchor roads and anchorage materials.

<u>COMPLETION DEADLINE</u>: Work should be <u>completed within 90 days of receipt of materials, not counting bad weather days.</u>

If the above time is not possible, state complet	ion time in days from o	contract issue.	<u>Days</u>
Understand all requirements in the Scope of Work	Yes_X	No	

Page: 3 Watauga County	BIDDER:	K-Co Enterprises, Inc.	<u> </u>
CONTRACTING OFFICER  This project will be under contract will	th Watauga County	. NC and will be under the direction of the C	Contracting Officer The

Contracting Officer will be:
Will Holt
Watauga, NC
Office:828-264-4235

Cell: 828-434-3491

NOTE: Any questions prior to issue of a contract should be directed to <a href="marty.randall@1018consulting.com">marty.randall@1018consulting.com</a> as stated on page one of this document.

Understand the Contact information as listed above

Yes\_X

No\_\_\_\_

## CONTRACTOR REQUIREMENTS

The Contractor shall submit the following items with their bid:

- 1. A drawing of the tower profile sealed by a **North Carolina Registered Engineer**.
- 2. A list of all antennas and appurtenances that were considered in the tower and foundation designs.
- 3. Tower foundation design drawings, with a complete set of <u>DESIGN CALCULATIONS</u> showing the reactions of the tower on the foundation, sealed by a <u>North Carolina Registered Engineer</u>.
- 4. The Contractor awarded this project must submit a set of final erection drawings, sealed by a North Carolina Registered Engineer to the Contracting Officer and Marty Randall for written approval before starting the project. If these drawings are submitted on paper they must also be accompanied by digital copies. We must have these drawings in digital format.
- 5. The proposal from the tower manufacturer must specifically state that all pricing will be honored for the duration of this contract.
- 6. Contractor must supply a rigging plan for tower erection. If the contractor intends to use a gin pole for tower erection, then they must provide a copy of their gin pole certification and load charts. All gin pole certifications and load charts must be current, must be sealed by a qualified engineer licensed in the state of North Carolina, and must state they are in compliance with ANSI/TIA-322. All rigging plans must be in compliance with ANSI/TIA-322 and ANSI/ASSE A10.48 and completed by a qualified engineer licensed in the state of North Carolina.
- 7. Each bid must be accompanied by a bid bond, for an amount equal to 5% of the total base bid, at the time the bid is filed with the County. No bid shall be considered if the bond is not received simultaneously with the bid. Bid bonds may be submitted in any form allowed under the laws of North Carolina including cash, cashier's check, certified check or surety issued bid bond.
- 8. Performance and payment bonds are required once bid is awarded.

Bids and tower designs that are submitted for opening will be submitted by Watauga County, NC to a Third-party **North Carolina Registered Engineer** for review of design accuracy and compliance before an award can be made. This is the reason for requiring the above-listed items to be sent with the bid response. Watauga County reserves the right to accept or reject any or all bids and to waive minor irregularities.

Two complete copies of your bid response must be submitted with your package. Failure to submit the above-listed items will forfeit your bid.

**Understand Contractor Requirements Process** 

Yes\_X\_

No\_\_\_\_

## **BIDDING INSTRUCTIONS**

Contractors bidding on this project must fully acquaint themselves with the following specifications, any attachments to this Invitation for Bid and conditions at the Designated Construction Site (DCS). The contractor is required to visit the DCS to fully understand any potential obstacles that would prevent speedy completion of this project. Any questions concerning any portion of the work or interpretation of documents should be referred to Marty Randall and the Contracting Officer.

Bids must be submitted on this form and must reach Watauga County, NC by 2:00pm on the date specified on Page one,

Page: 4 Watauga County BIDDER:	K-Co Enterprises, Inc.		
above. All parts of this form must be completed for cons Understand Bidding Instructions	ideration. <u>Send two cop</u>		
PRE-AWARD ENGINEERING REVIEW  Bids and tower designs submitted for this IFB will be sub design accuracy and compliance with all stipulated star responsible bid failing this engineering review will be in bidder that meets the Engineering Review requirements.	ndards and building codes nvalid and the bid will be	before an award can be	made. A low
Understand Pre-Award Engineering Review Process  PROJECT DESCRIPTION  This project shall consist of the furnishing and installation specifications.	$\operatorname{Yes}_{\underline{X}}$ on of a communications to		any attached
Understand Project Description	Yes_X	No	
COORDINATION OF THE WORK  The Tower Contractor shall notify Marty Randall and the two weeks prior to the desired construction time. Contract 6609) at least 2 weeks prior to construction to coordinate may result in delay of the starting date. Failure to give a and unable to perform and work.	ctor must contact Matt Fie te the staking of the tower	lds ( <u>matt.fields@ets-pllc.</u> · location. Failure to give a	com 919-427- dvance notice
Understand the Coordination Requirement	Yes_X_	No	
DESIGN CAPACITY REQUIREMENT  The tower must be designed so that when installed with a TABLE that follows, the tower superstructure and subsevaluation by a third party, Engineered Tower Solutions the bid will not be accepted. Each bidder must provide as that this Design Capacity Requirement is met. This tower A Fall Zone letter must be included from the tower man bidder shall record either the Rated Capacity and/or the	ostructure shall NOT est the design computes to be part of the bid submission or shall be designed for a online of the stamped by a Note of the st	xceed 95% of its capa be at a greater stress level to a package design calculate. It fall radius per the contra and licensed engineer. Add	city. If, upon than specified, tions verifying ct documents. litionally, each
Rated Capacity	Percent of St	ressed Value	
Understand the Design Capacity Requirement.	Yes_X_	No	
PERMITS  Permits are required for this tower installation. The inspections with the permitting office. The County is ninformation.			
Understand the Permit Process	Yes <u>X</u>	No	
EQUINDATION INSPECTION MANAGEMENT			

## FOUNDATION INSPECTION MANAGEMENT

Prior to Construction Start, the Tower Contractor will obtain the services of third party Engineered Tower Solutions ("ETS") to oversee, inspect, and document each phase of the foundation construction to ensure compliance with the Tower Manufacturer's Tower Design Drawings and Specifications. (Watauga County, NC has a contract with ETS to perform these inspections with no more than two trips being made by ETS. Fees will be paid by Watauga County, NC for all initial inspections. Additional inspections due to non-conformity with contract documents are at the contractor's expense. For scheduling, email Matt Fields: (matt.fields@ets-pllc.com 919-427-6609) prior to Construction Start, all materials to be used in the construction of the foundation shall be inspected to ensure compliance with the Tower Manufacturer's Tower Design Drawings and Specifications. The Tower Contractor shall immediately report to Marty Randall and the Contracting Officer any deviations found during the on-site pre-construction start inspection and present a correction plan. The Tower Contractor shall provide to Marty Randall and the Contracting Officer, a written report, sealed by Engineered Tower Solutions that completely documents all results of the foundation oversight and inspection process,

Page: 5 Watauga County	BIDDER:	K-Co Ente	rprises, In	ıc.	
including a comprehensive set of digital p	hotographs				
Understand the Inspections Manageme	ent Process	Yes	<u>X</u>	No	
CONCRETE: COMPLIANCE WITH MIX S	SPECIFICATIO	NS & STREN	IGTH TES	TING	
The Tower Contractor will obtain the service oversight of the concrete pouring process with the Tower Manufacturer's Tower Departy, (ETS), takes all steps to ensure of pouring process, and to ensure accurate a contract with ETS to perform the consampling, breaks, and reports. For service Tower Contractor shall provide to Marticompletely documents the compliance with a comprehensive set of digital photograph	s and the inspectors and the inspectors ompetent monitoric recording of the concrete testing cheduling, emay Randall and the mix specification.	ction and reco and Specific toring of the o e time of day g. Fees will ail Matt Field the Contract	ording of <u>ea</u> ations. Th concrete sa each samp be paid b ds: (matt.fi ting Officer	ach concrete delivery te Tower Contractor seampling process used to was taken. (Watau by Watauga County, ields@ets-pllc.com tr, a written report, se	ticket for compliance thall ensure the third during the concrete aga County, NC has NC. This includes 1919-427-6609)). The ealed by (ETS) that
Understand Concrete Compliance and	Testing Proce	ess Yes	<u>X</u>	No	
TOWER GROUND INSPECTION					
The Tower Ground inspection marty.randall@1018consulting.com Cell inspection.				Consulting. Mr. at least 72 hours pr	
Understand Grounding Inspection Pro-	cess	Yes	<u>X</u>	No	
EXPEDITE CONSTRUCTION					
It is expected that the contractor will explanation favorable working conditions.	pedite completi	on of the pro	ject, taking	g full advantage of the	e weather and other
<b>Understand Post Construction Inspect</b>	ion Process	Yes	<u>X</u>	No	
POST CONSTRUCTION INSPECTION (I	PCI)				
Upon completion of the tower the Tower ("ETS") to conduct the Post Construction of the Inspection. (Watauga County, NC NC for all initial inspections. Addition contractor's expense. For scheduling, deviation from the Tower Manufacturer's Tower Contractor shall provide to the Condocuments each deviation along with Engl.	Inspection ("F has a contract hal inspections email Matt Fie Design Drawing tracting Officer,	PCI"), and to out to out to provide to provide to provide to nor out to find the contract of t	generate a his service n-conformi elds@ets-p ications is to	complete report docu e. Fees will be paid be ity with contract do ollc.com 919-427-660 found during, or as a th Drawing and/or Spe	menting the findings by Watauga County, cuments are at the (9)). In the event any result of the PCI, the
Understand Final Inspection Process		Yes	X	No	
CONTRACTOR LICENSES					
The Tower Contractor, and/or the subconbe licensed to operate a contracting busin NC General Contractors License Number	ness in the Stat				
The Contractor installing the tower must of were adopted in February 2005 and any funderstand Requirements for Contract	following revision	ons.	na Departm	nent of Labor's Tower  No	Climbing rules that
The state of the s		. 00_			

# **CONSTRUCTION & MATERIALS**

The tower shall be constructed of **hot-dipped** galvanized steel with solid round, or angular members. The tower may be either solid weld or knockdown construction. All components of the tower including but not limited to bolts, nuts, mounting brackets, torque arms, etc. shall, at a minimum, be **hot-dipped** galvanized. The tower shall conform, at a minimum, to the North Carolina Building Code Chart 1606, Basic Wind Speed and any county/jurisdictional specified requirements.

Page: 6	3		
Wataug	a (	Cou	nty

BIDDER:	K-Co Enterprises, Inc.

The	Tower	must	have	climbing	facilities	on eac	า tower	leg	for	installation	and	maintenance.	Tower	Contractor	mus
prov	ride an	d inst	tall a s	safety ca	ble at the	e climbi	ng lado	der.							

115	da	14 Ca	nstruction	and	Matariala	
un	derstar	าด ५०	nstruction	ano	iviateriais	i

Yes_	X

No\_\_\_\_

## EROSION CONTROL

The Contractor will be responsible for Erosion Control practices and any fines levied if not practiced.

**Understand Erosion Control Methods and responsibilities** 

-

No\_\_\_\_

# STRUCTURE SPECIFICATIONS TABLE

Please enter Yes or No that you meet the specification in the Right-hand column

Item	Description	Comply Yes or No
1	Location is 340 Deer Run Road, Stony Fork NC 28607 Latitude N 36° 10' 31.78" North Longitude W 81° 30' 51.21"	Yes
2	Tower is to be a self-supporting structure.	Yes
3	Tower Height is to be 176-ft AGL with a 0-ft Fall Zone.	Yes
4	Tower will be positioned on the DCS as indicated in the attached Construction Drawings.	Yes
5	The Tower Structure shall utilize solid round or angle structural steel members. No other materials or shapes will be given consideration. Note all members must be hot dipped galvanized to prevent corrosion.	Yes
6	All structural bolts must meet the ASTM A325 or A490 Specification.	Yes
7	The Tower Contractor will provide all materials to Complete the Tower & Foundation Installation.	Yes
8	The Tower Contractor will build the Foundation and erect the Tower.	Yes
9	The Tower Contractor will provide a detailed set of foundation drawings (sealed by a North Carolina Registered Engineer) showing all details including all rebar sizes and quantities, and concrete volumes. The Tower Contractor shall install the tower foundation. The Tower Contractor may construct the foundation using the most cost-effective method. The type of foundation presented in this Bid shall be designed and constructed in accordance with the Geotechnical Parameters specified in the Subsurface Exploration Report provided by Engineered Tower Solutions. That document is an attachment to this IFB.	Yes
10	Any damage to the access road, thru the housing development, from construction of this tower must be repaired by the contractor so to restore road to the original condition. If there are repairs required to the existing access road in order to construct the tower those repairs must be included in the bid. The contractor is responsible for tower construction. Civil work will be completed by Civil contractor.	Yes
11	All back-fill for grading tower base must be compacted and tamped. This would be 8 inches of fill and adding moisture if need between each tamping.	Yes
12	As a minimum this Tower and Foundation shall be designed to the requirements of ANSI/TIA-222G, including released addendums.	Yes
13	One hot-dipped galvanized expanded metal Vertical Cable/Wave-Guide Ice-Bridge, capable of mounting twenty (20) lines. Waveguide bridge shall be installed between the tower and shelter per the design drawings. The width of the Horizontal Cable/Wave-Guide Ice-Bridge shall be installed by the civil contractor.	Yes
14	The Tower shall have a safety fall protection system incorporating a 3/8" stainless steel cable meeting OSHA/ANSI specifications installed the full height of the structure on one tower leg with full height step pegs. Additionally, step pegs are required on the other two legs to the height of the mid markers.	Yes
15	The Tower Contractor shall install one (1) #2/0 AWG bare tinned copper conductor between the base of each tower leg and a 10-ft ground rod at each tower leg. The top of the ground rod must be at least 3-ft below finished grade. Each of these #2/0 AWG bare tinned copper conductors shall be Exothermically Bonded to the ground rod, tower leg, and tower halo ring. Grounding must be in compliance with Motorola R56 specifications and standards	Yes
	NOTE: All grounding shall conform to construction drawings.  NOTE: A representative of Watauga County, NC shall inspect the connections to the ground rods prior to filling the trench. This inspection does not eliminate the requirement for installing	

Page: 7 Watauga County

**BIDDER:** K-Co Enterprises, Inc.

	inspection tubes. The Tower Contractor shall notify the Contracting Officer at least forty-eight	
	(48) hours prior to schedule and conduct this inspection.	
17	The Civil Contractor is responsible for providing and installing a temporary power pole on the site for use during construction. Civil contractor is responsible for removing the temporary power pole once permanent power has been installed at the DCS.	Yes
18	Tower Contractor is required to submit best and final price for this effort. Change orders will only be considered for circumstances or unusual situations not included in the contract documents. Any change orders must be approved in writing before work is started. Customer understands any additional work requested may incur additional costs outside of this contract pricing.	Yes
	The Tower Contractor shall provide Tinned Copper Ground Bars (TCGBs) capable of attaching a minimum of twenty (20) ground kits. Tower must include a 6' lightning rod at the top of structure.	
	NOTE: The TCGB shall be mechanically attached directly to the Tower Structure with Stainless Steel Hardware using pre-drilled holes in the Tower Structural Steel provided expressly for this purpose.	
19	The TCGBs shall be installed at approximately ten 10-ft AGL at the base of the cable ladder. The Tower Contractor shall install a sufficient length of #2/0 AWG bare tinned copper conductor between this TCGB and the tower halo ring closest to the cable ladder. A second set of TCGB's to be install at the approx. 150 ft level with the TCGB's bonded to the tower structure. <b>Exothermic Bonding</b> shall be used to provide the electrical connections of the #2/0 AWG bare tinned copper conductor to the TCGB and the ground ring.	Yes
20	The Tower Contractor shall provide and install antenna mounts in accordance with the included <b>Antenna Mount Schedule (AMS)</b> and <b>Antenna Loading Requirements</b> .	Yes
21	The location of the site is as shown on the attached drawings.	Yes
22	Excess soil created from foundation installation must be removed from the site. If soil is suitable, it may be used for backfilling and tower foundation leveling.	Yes
23	The Tower Contractor shall remove all tower construction materials and debris from the site.	Yes
24	Bidding contractors must attend a mandatory pre-bid site walk on September 30th at 11:00AM.	Yes

## ANTENNA MOUNT SCHEDULE (AMS)

## Contractor to provide and install the following Antenna Mounts on the Tower

Item #	Antenna Mount Description	Comply Yes or No
1	Two 6-ft standoff sidearm mounts with stabilizer at 155-ft	Yes
2	Two 6-ft standoff sidearm mounts with stabilizer at 135-ft	Yes
3	One 6-ft standoff sidearm mounts with stabilizer at 155'-ft	Yes
4	One Microwave 4.5" Pipe Mount at 110-ft. with ice shield	Yes

6' standoff mounts must be rated to accommodate listed antennas in Antenna Mounting table. If an alternate mount is used specifications must be provided by the manufacturer.

# **ANTENNA LOADING REQUIREMENTS:**

Refer to attached TEP Tower Procurement Document for tower specifics, antennas and required loading.

# **TOWER COST BREAKDOWN:**

Page: 8	
Watauga	County

Total cost of tower materials only	\$ 88,000.00
<ul> <li>2. Total cost of all other services, including:</li> <li>a. All shipping</li> <li>b. Complete Installation</li> <li>c. Engineering Services</li> <li>d. All Inspections</li> </ul>	\$ 163,366.50
3. Total cost to construct the tower <sup>1</sup> . (Sum of Item-1 and Item-2, above)	\$ 251,366.50
4. Price per cubic yard for rock removal	\$ 3000/cubic yard

**BIDDER:** K-Co Enterprises, Inc.

## **LIST OF ATTACHMENTS**

- 1. Subsurface Exploration Report, prepared by **Engineered Tower Solutions.**
- 2. Construction Drawings, prepared by Engineered Tower Solutions.
- 3. Bid Document
- 4. Antenna Datasheets
- 5. Addendum #1

Call the Contracting Officer prior to the opening date if you did not receive these attachments.

# **Addendum 1 Powder Horn Tower Bid**

- 1) Antennas listed on the Tower Procurement as DB220 should be specified as DB224 for tower loading purposes.
- 2) Tower foundation type is optional per the bid document; pad and pier is recommended due to site topography. Access with a drilling equipment will be difficult at best.

# **Addendum 2 Powder Horn Tower Bid**

Antenna Inventory for the proposed tower does include two Reserved/Future 'Cellular Carrier' RADs at 120-ft and 80-ft.

## <u>Instruction for the Tower Design would be:</u>

Tower and Foundation Design must consider 40,000 sq. in. (278 sq. ft. EPAA), 6,000 lbs (6 kips w/o ice) at both the 120-ft and 80-ft RADs. Use full (EPA)A value in each wind direction, no shielding deductions permitted for wind load (Ka=1.0 required).

(9) 1-5/8" coax stacked 4 on 5 for each carrier. Consider all County lines on one face, then each carrier coax on the other two faces.



Tower Procurement Package
Powder Horn Mountain
September 3, 2025
ETS Job No. 25134760.STR.9907 Rev. 1
Page 1 of 6

Site Name:		Powder Horn Mountain
Site Address:		340 Deer Run Road, Stony Fork, NC 28607
Latitude:		36.1754950 °
Longitude:		-81.5142249 °
Structure Type:		Proposed 176.0-ft Self Support Tower
Contact Information:		Contact the owner with questions regarding the content of this Document. All questions or concerns shall be directed to the contact stipulated in the Bid Document.
Design Capacity:		The tower shall be designed so that, once installed with all loading as shown in Table 1 - Design Antenna/Coax Loading, the tower superstructure and substructure shall <a href="NOT exceed 95% of its capacity">NOT exceed 95% of its capacity</a> . If, upon evaluation, the design computes to be at a greater stress level than specified the bid will not be accepted. <a deliverables"="" details.<="" for="" href="All bidders must provide design calculations verifying that this Design Capacity Requirement is met; see " td=""></a>
Materials:		Tower structures shall utilize structural steel round or polygonal poles only. No other materials or shapes shall be given consideration. Structural bolts must meet the ASTM A325 specification, or equivalent if approved by the design engineer of record.
Design Fall Radius:		No Fall Radius Required Fall Radius Required from Centerline of Tower: 0-ft
Standard:	$\boxtimes$	As a minimum, all towers shall be designed to the requirements of ANSI/TIA-222-G, including released addendums
Design Wind Speed:	$\boxtimes$	115 mph ultimate 3-second gust wind speed (converted to an equivalent 89 mph nominal 3-second gust wind speed per Section 1609.3.1 for use with TIA-222-G) as required by the 2018 North Carolina State Building Code (2015 IBC) and ASCE 7-10.
Structure Class:		Structure Class I – Low Hazard Structure Class II – Significant Hazard (Default) Structure Class III – Substantial Hazard
Risk Category:		Risk Category I – Low Hazard Risk Category II – Moderate Hazard (Default) Risk Category III – Substantial Hazard Risk Category IV – Essential Hazard (Essential Communications)
Topographic Category:		Category I – No abrupt changes in general topography (Topographic effects are already considered in the prescribed windspeed above per the 2018 NCBC Chapter 3).  Category II – Structures located at or near the crest of an escarpment  Category III – Structures located in the upper half of a hill  Category IV – Structures located in the upper half of a ridge  Category V – Wind speed up criteria based on a site-specific investigation (see attached)
Exposure Category:		Exposure B – Urban and Suburban Areas  Exposure C – Open Terrain where Exposure B or D does not apply.  Exposure D – Flat, Unobstructed Shorelines
Design Ice Loading:		ANSI/TIA-222-H: x.xx inch escalating with a xx mph 3 second gust wind speed ANSI/TIA-222-G: 0.75 inch escalating with a 30 mph 3 second gust wind speed

3227 Wellington Court Raleigh, NC 27615 (919) 782-2710

☐ ANSI/TIA/EIA-222-F: x.xx inch escalating with an xx mph fastest mile wind speed



Tower Procurement Package Powder Horn Mountain September 3, 2025 ETS Job No. 25134760.STR.9907 Rev. 1 Page **2** of **6** 

Seismic:	$\times$	Seismic Ss: 0.245 / Seismic S1: 0.095 / Seismic TL: 12
		Ss exceeds 1.0. Seismic loads shall be evaluated in accordance with the Standard
Tower Finish:		Galvanized Painted per FAA Advisory Circular AC 70/7460-1K Painted per Local Requirements All structural steel products shall be hot dip galvanized in accordance with ASTM A123 specifications. Tower manufacturer shall produce documentation verifying the appropriate galvanizing process is utilized. All steel hardware shall be galvanized in accordance with ASTM A153 or ASTM B695 specifications
Tower Lights:		Not Required  Tower lighting system with E2 Avian Compliant Obstruction Lighting System (white strobes by day, and red lights at night). Beacons and Obstruction lights shall be all LED and Dual Red/White medium intensity and shall meet the requirements of FAA Advisory Circular AC 70/7460-1K. Towers 200-ft to 350-ft  Tower lighting system with E2 Avian Compliant Obstruction Lighting System (white strobes by day, and red lights at night). Beacons and Obstruction lights shall be all LED and Dual Red/White medium intensity and shall meet the requirements of FAA Advisory Circular AC 70/7460-1K. A lighting system by Drake Lighting, that complies with the FAA regulation, is required. Towers over 350-ft
Grounding:	$\boxtimes$	Grounding, lightning protection, and surge protection systems shall be installed as required in compliance with R56 specifications and the construction documents. Coordinate with the Duke Energy bid administrator for the portion of tower grounding scope of work as shown in the construction documents. Minimum of the tower ground ring, connections from the ring to the tower, the bottom tower ground bar, and the connection from the tower ground ring to the bottom ground bar shall be included.
Climbing Facilities:		Not Required A safety fall protection system incorporating a 3/8" diameter stainless steel cable meeting OSHA/ANSI specifications shall be installed the full height of the structure one tower leg and another full height cable on a full height face mounted external ladder. Additionally, step pegs are required on the other two legs to the height of the mid markers.  A safety fall protection system incorporating a 3/8" diameter stainless steel cable meeting OSHA/ANSI specifications shall be installed the full height of the pole with full height step pegs.
Ice Bridge:		Not required; Another contractor to provide Provide an option for Ice Bridge
Transmission Ladder:		Not required; carrier to provide Provide (1) Transmission Ladder. Include "per foot" pricing.
Foundation:		Provide Preliminary Design using Presumptive Soil Parameters per the TIA-222-G Standard (Annex F). A Geotechnical Report will be provided later for the final foundation design. Design with Geotechnical Report provided. In accordance with ANSI/TIA-222-G, Annex A, Section A.9.0, the tower manufacturer shall ensure the proper development of anchor rods and anchorage materials.
Antenna Mounts:		Not required; Antenna Mounts provided by carrier.  Provide mounts per Table 1 – Design Antenna/Coax Loading



Tower Procurement Package Powder Horn Mountain September 3, 2025 ETS Job No. 25134760.STR.9907 Rev. 1 Page **3** of **6** 

## **Additional Design Requirements**

#### Structural Guidelines:

All leg capacities for lattice towers shall be computed utilizing a global effective length factor (K) of 1.0. All leg capacities shall be calculated utilizing the working points between panel points. Utilizing the side (gusset) plate length to reduce the un-braced length of the leg is not permitted. Leg members must consist only of steel solid rod and angle members. Tubular steel leg members are not permitted (Not applicable to monopoles).

For round leg latticed towers, bracing member capacities shall be calculated considering the effective length to be the span between the weld lines of the gusset plates at the face of the round legs for both out-of-plane and in-plane buckling modes (Not applicable to monopoles).

Hardened galvanized flat washers (ASTM F436) shall only be used in fully tensioned bolted connections and connections that utilize oversized or slotted holes.

#### **Linear Appurtenances:**

The tower analysis model shall include all feed lines, feed line ladders, step pegs, climbing ladder and safety climb.

#### **Discrete Appurtenances:**

Effective Projected Area (EPA)A for antennas shall be determined according to TIA-222-G, Section 2.6.9.2, Design Wind Force on Appurtenances. If antenna or mount areas are specified, the provided values shall be used in lieu of calculated values. If height, width, and depth dimensions are provided by the antenna manufacturer, the panel shall be treated as a flat rectangular panel. Force coefficients shall be determined based on antenna aspect ratios and multiplied by the projected areas to calculate front and side EPAs.

Wind tunnel test results shall NOT be used unless the results have been provided to ETS and proposed effective areas have been approved. Back-calculating wind areas from published antenna manufacturer's wind loads are prohibited.

Deliverables: [Once awarded, Final Deliverables shall bear the seal of a North Carolina Professional Engineer]

A PDF softcopy of all deliverables shall be sent to ETS for recording purposes. All tower designs shall be complete with the following:

- General Notes
- Profile drawing (with tower reactions, design drawings, materials grades and referenced codes and standards shall be clearly shown)
- Foundation design drawings
- Supporting design calculations for tower and foundation
- Listing of main structural members
- Mount documentation specifically showing total EPA



Tower Procurement Package Powder Horn Mountain September 3, 2025 ETS Job No. 25134760.STR.9907 Rev. 1 Page **4** of **6** 

## Table 1 - Design Antenna/Coax Loading

EXISTING ANTENNA SCHEDULE								
OWNER	QTY.	SIZE (FT)	TYPE	MANUFACTURER - ANTENNA MODEL NUMBER	ANTENNA AZIMUTH	MOUNT ELEVATION	LEG	CABLE (QTY.) TYPE
WATAUGA COUNTY	1	-	OMNI	RFI - CC807-11	-	155'-0"	A	(1) 7/8" & (1) 1/2"
WATAUGA COUNTY	1		OMNI	RFI - CC807-11	-	155'-0"	В	(t) 7/8°
WATAUGA COUNTY	1		TTA	TTA	-	154'-0"	-	-
WATAUGA COUNTY (FUTURE)	1		DIPOLE	DECI8EL - DB220	-	155'-0"	C	(1) 7/8"
WATAUGA COUNTY	1	-	OMNI	RFI - CC807-11	-	135'-0"	A	(1) 1-5/8"
WATAUGA COUNTY	1	-	OMNI	RFI - CC807-11	-	135'-0"	В	(1) 1-5/8"
WATAUGA COUNTY (FUTURE)	1	-	DIPOLE	DECIBEL - D9330	-	135'-0"	G	(1) 7.8*
WATAUGA COUNTY	4		PANEL	Cellular Carrier	-	120'-0"	A.B.C	
WATAUGA COUNTY	1		DISH	COMMSCOPE - HX6-6W-6WH	295.5*	110'-0"	С	(1) EU63
WATAUGA COUNTY (FUTURE)	1	-	DISH	COMMSCOPE - HX8-6W-WH		110'-0"	A	(1) EU¢3
WATAUGA COUNTY	4		PANEL	Cellular Carrier	-	800.	A.B.C	g man -
WATAUGA COUNTY (FUTURE)	1		DIPOLE	DECIBEL - DB220		40-0"	Б	(1) 7/81

Note 1: Builder will supply side arms with side struts for only the omni and dipole antennas listed as current (4 total). However, engineer shall design the tower so that all omni and dipole antennas, including future (7 total), have side arms with side struts considered in the design loading.

Note 2: Builder will supply pipe mounts, high wind kits, and ice shields for only the dish antennas listed as current (1 total). However, engineer shall design the tower so that all dish antennas, including future (2 total), have pipe mounts, high wind kits, and ice shields considered in the design loading.



Tower Procurement Package Powder Horn Mountain September 3, 2025 ETS Job No. 25134760.STR.9907 Rev. 1 Page **5** of **6** 

Appendix A
Verification of Design Loads



# **ASCE Hazards Report**

Address:

No Address at This Location

Standard: ASCE/SEI 7-10

Latitude:

36.175495

Risk Category: II

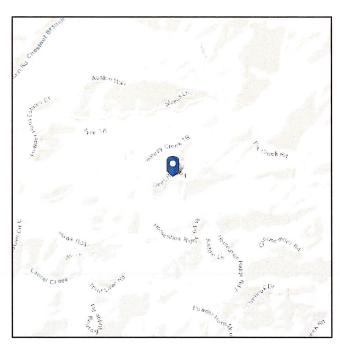
Soil Class:

D - Stiff Soil

Longitude: -81.514225

Elevation: 2120.6906013561916 ft

(NAVD 88)





## Wind

#### Results:

Wind Speed 115 Vmph 10-year MRI 76 Vmph 25-year MRI 84 Vmph 50-year MRI 90 Vmph 100-year MRI 96 Vmph

Data Source:

ASCE/SEI 7-10, Fig. 26.5-1A and Figs. CC-1-CC-4, and Section 26.5.2,

Date Accessed:

incorporating errata of March 12, 2014

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-10 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is not in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2.



# **Seismic**

Ss:       0.245       Sp1:       0.152         S1:       0.095       TL:       12         Fa:       1.6       PGA:       0.124         Fv:       2.4       PGA m:       0.192         Sms:       0.393       FPGA:       1.553         Sm1:       0.229       Ie:       1         Scisnic Design Category:       0.262       Design Response Spectrum     Design Response Spectrum           0.35       0.20       0.15         0.25       0.20       0.15         0.10       0.05	Site Soil Class Results:	:	D - Stiff So	oil				
0.35 0.30 0.25 0.20 0.20 0.15 0.10 0.10	$S_1$ : $F_a$ : $F_v$ : $S_{MS}$ : $S_{M1}$ :		0.095 1.6 2.4 0.393 0.229		T <sub>L</sub> : PGA: PGA <sub>M</sub> : F <sub>PGA</sub> :	12 0.124 0.192 1.553		
	0.35 0.30 0.25 0.20 0.15 0.10 0.05			12 14	0.25 0.20 0.15 0.10 0.05			14

Data Accessed:

Fri Jul 18 2025

**Date Source:** 

USGS Seismic Design Maps based on ASCE/SEI 7-10, incorporating Supplement 1 and errata of March 31, 2013, and ASCE/SEI 7-10 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-10 Ch. 21 are available from USGS.



## **Ice**

#### Results:

Ice Thickness: 0.75 in.

Concurrent Temperature: 15 F

Gust Speed 30 mph

Data Source: Standard ASCE/SEI 7-10, Figs. 10-2 through 10-8

Date Accessed: Fri Jul 18 2025

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

In the Appalachian Mountains, ice thicknesses may vary significantly over short distances.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 50-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

The ASCE Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE standard.

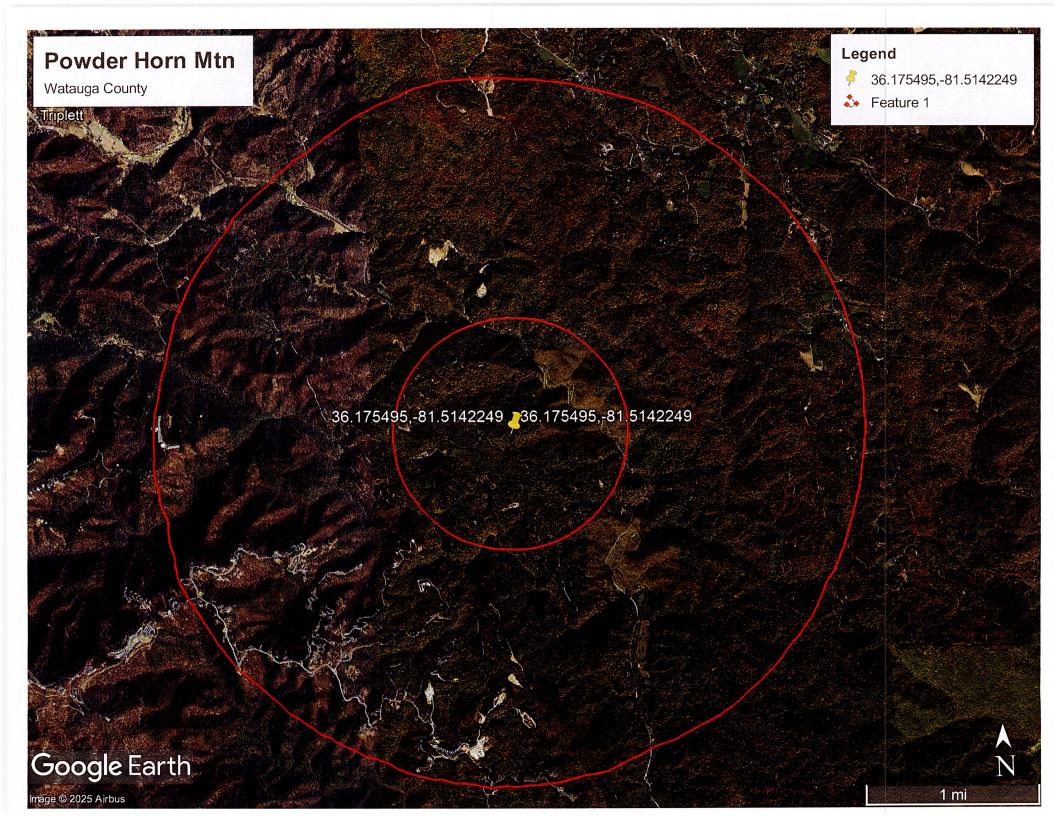
In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE Hazard Tool.

https://ascehazardtool.org/ Page 3 of 3 Fri Jul 18 2025



Tower Procurement Package Powder Horn Mountain September 3, 2025 ETS Job No. 25134760.STR.9907 Rev. 1 Page 6 of 6

Appendix B
Site Vicinity and Location Map



#### **Base Product**



1.8m | 6ft ValuLine® High Performance, High XPD Antenna, dual-polarized, 5.925 – 7.125 GHz

## **Product Classification**

Product Type Microwave antenna

Product Brand ValuLine®

General Specifications

Antenna Type HX - ValuLine® High Performance, High XPD

Antenna, dual-polarized

**Polarization** Dual

Side Struts, Included

Side Struts, Optional

Dimensions

Diameter, nominal 1.8 m | 6 ft

Electrical Specifications

Operating Frequency Band 5.925 – 7.125 GHz

Gain, Low Band38.3 dBiGain, Mid Band39.1 dBi

Gain, Top Band 39.9 dBi

Boresite Cross Polarization Discrimination (XPD) 33 dB

Front-to-Back Ratio 70 dB

Beamwidth, Horizontal 1.8 °
Beamwidth, Vertical 1.8 °

Return Loss 26 dB

VSWR 1.1

Radiation Pattern Envelope Reference (RPE) 7376

Electrical Compliance ACMA FX03\_6b, 6p7b | ETSI 302 217 Class

3 | IC 3059A | IC 3064A | US FCC Part 101A

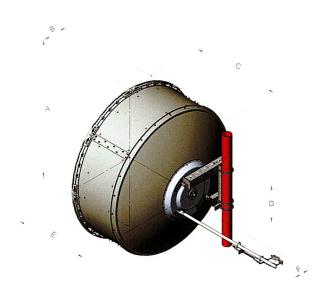
Page 1 of 7

# HX6-6W

Cross Polarization Discrimination (XPD) Electrical Compliance	ETSI EN 302217 XPD Category 2
Electrical Specifications, Band 2	
Operating Frequency Band	5.725 – 5.850 GHz
Gain, Mid Band	38.4 dBi
Beamwidth, Horizontal	2°
Beamwidth, Vertical	2°
Mechanical Specifications	
Compatible Mounting Pipe Diameter	115 mm-120 mm   4.5 in-4.7 in
Fine Azimuth Adjustment Range	±15°
Fine Elevation Adjustment Range	±5°
Wind Speed, operational	200 km/h   124.274 mph
Wind Speed, survival	200 km/h   124.274 mph

# HX6-6W

# Antenna Dimensions and Mounting Information



	Dimensio	ons in inch	nes (mm)			
Antenna size, ft (m)	Α	В	С	D	E	F
6 (1.8)	74.8 (1899)	13.4 (340)	47.5 (1206)	20.9 (530)	39.4 (1001)	8.4 (214)

# Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)

Angle  $\alpha$  for MT Max

Side Force (FS)

Twisting Moment (MT)

Force on Inboard Strut Side

Zcg without Ice

Zcg with 1/2 in (12 mm) Radial Ice

Weight with 1/2 in (12 mm) Radial Ice

6960 N | 1,564.671 lbf

-130°

1566 N | 352.051 lbf

3923 N-m | 34,721.477 in lb

4075 N | 916.097 lbf

363 mm | 14.291 in

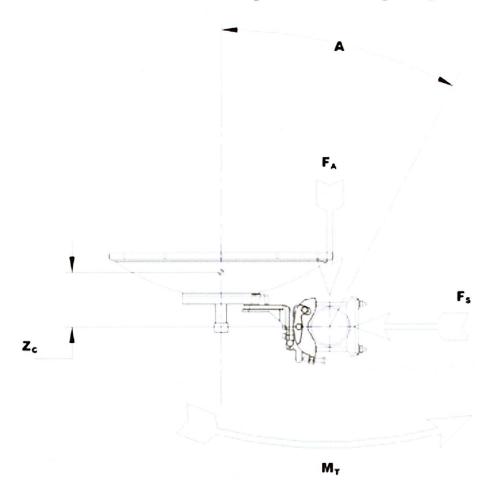
541 mm | 21.299 in

237 kg | 522.495 lb

Page 3 of 7



# Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

**Weight, net** 85 kg | 187.393 lb

# Regulatory Compliance/Certifications

Agency	Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

\* Footnotes

**Operating Frequency Band** 

Bands correspond with CCIR recommendations or common allocations used throughout the world. Other ranges can be accommodated on special order.

Page 5 of 7

# HX6-6W

Gain, Mid Band	For a given frequency band, gain is primarily a function of antenna size. The gain of Andrew antennas is determined by either gain by comparison or by computer integration of the measured antenna patterns.		
Boresite Cross Polarization Discrimination (XPD)	The difference between the peak of the co-polarized main beam and the maximum cross-polarized signal over an angle twice the 3 dB beamwidth of the co-polarized main beam.		
Front-to-Back Ratio	Denotes highest radiation relative to the main beam, at 180° $\pm 40$ °, across the band. Production antennas do not exceed rated values by more than 2 dB unless stated otherwise.		
Return Loss	The figure that indicates the proportion of radio waves incident upon the antenna that are rejected as a ratio of those that are accepted.		
VSWR	Maximum; is the guaranteed Peak Voltage-Standing-Wave-Ratio within the operating band.		
Radiation Pattern Envelope Reference (RPE)	Radiation patterns define an antenna's ability to discriminate against unwanted signals. Under still dry conditions, production antennas will not have any peak exceeding the current RPE by more than 3dB, maintaining an angular accuracy of +/-1° throughout		
Cross Polarization Discrimination (XPD) Electrical Compliance	• The difference between the peak of the co-polarized main beam and the maximum cross-polarized signal over an angle twice the 3 dB beamwidth of the co-polarized main beam.		
Wind Speed, operational	For VHLP(X), SHP(X), HX and USX antennas, the wind speed where the maximum antenna deflection is 0.3 x the 3 dB beam width of the antenna. For other antennas, it is defined as a deflection is equal to or less than 0.1 degrees.		
Wind Speed, survival	The maximum wind speed the antenna, including mounts and radomes, where applicable, will withstand without permanent deformation. Realignment may be required. This wind speed is applicable to antenna with the specified amount of radial ice.		
Axial Force (FA)	Maximum forces exerted on a supporting structure as a result of wind from the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.		
Side Force (FS)	Maximum side force exerted on the mounting pipe as a		

result of wind from the most critical direction for this

# HX6-6W

Twisting Moment (MT)

parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.

Maximum forces exerted on a supporting structure as a result of wind from the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.

1-port omni exposed dipole antenna, 150–160 MHz, 360° HPBW, fixed electrical tilt

- Broad response
- Two-piece mast for ease of shipping

# General Specifications

Antenna Type

Omni

Band

Single band

Color

Silver

**Grounding Type** 

RF connector inner conductor and body grounded to reflector and mounting bracket

**Performance Note** 

Outdoor usage

**Radiator Material** 

Aluminum

**RF Connector Interface** 

N Male

**RF Connector Location** 

Bottom

RF Connector Quantity, low band

1

RF Connector Quantity, total

1

## **Dimensions**

Length

6477 mm | 255 in

Net Weight, without mounting kit

15.9 kg | 35.053 lb

# **Electrical Specifications**

Impedance

50 ohm

**Operating Frequency Band** 

150 - 160 MHz

Polarization

Vertical

# **Electrical Specifications**

Frequency Band, MHz

150-160

Gain, dBi

8.1

Beamwidth, Horizontal,

360

degrees

Beamwidth, Vertical, degrees

16

COMMSCOPE°

# DB224-A

Beam Tilt, degrees

0

VSWR | Return loss, dB

1.5 | 14.0

Input Power per Port, maximum, watts

500

# Mechanical Specifications

Wind Loading @ Velocity, maximum

560.5 N @ 100 mph (126.0 lbf @ 100 mph)

Wind Speed, maximum

130 km/h (81 mph)

# Regulatory Compliance/Certifications

Agency

Classification

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

## Included Products

DB365-OS

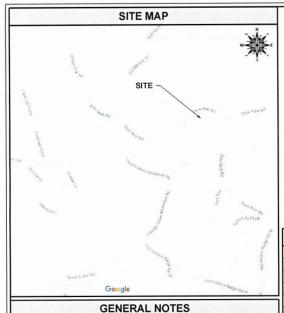
Pipe Mounting Kit that consists of two clamps for mounting antennas to round members 1.25 -

3.5 in (35 - 89 mm) OD round members.

# \* Footnotes

**Performance Note** 

Severe environmental conditions may degrade optimum performance



THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION, THEREFORE HANDICAP ACCESS IS NOT REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE, NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

#### SCOPE OF WORK

PROPOSED SCOPE OF WORK INCLUDES THE INSTALLATION OF A NEW 180' SELF-SUPPORT TOWER AND A 11-6"x19"-0" PREFABRICATED EQUIPMENT SHELTER, WITHIN A 60"-0"x60"-0" CHAIN-LINK FENCED COMPOUND.

#### CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE FOLLOWING CODES:

- 2018 N.C. BUILDING CODE (2015 IBC W/ AMENDMENTS)
- 2018 N.C. EXISTING BUILDING CODE (2015 IEBC W/ AMENDMENTS)
- 2018 N.C. FIRE CODE (2015 IFC W/ AMENDMENTS)
- 2018 N.C. FUEL GAS CODE (2015 IFGC W/ AMENDMENTS)
- 2018 N.C. MECHANICAL CODE (2015 IMC W/ AMENDMENTS)
- 2018 N.C. PLUMBING CODE (2015 IPC W/ AMENDMENTS)
- 2020 N.C. ELECTRICAL CODE (2020 NEC)



#### SITE NAME: POWDER HORN MOUNTAIN

SITE ADDRESS: 340 DEER RUN ROAD STONY FORK, NC 28607 LATITUDE & LONGITUDE: N 36° 10' 31.78", W 81° 30' 51.21"

	INDEX OF SHEETS
T-1	TITLE PAGE
ATTACHED	SURVEY
ATTACHED	GRADING PLAN AND ACCESS ROAD DETAILS
GN-1	GENERAL NOTES I
GN-2	GENERAL NOTES II
GN-3	GENERAL NOTES III
GN-4	NC APPENDIX B I
GN-5	NC APPENDIX B II
GN-6	NC APPENDIX B III
GN-7	NC APPENDIX B IV
GN-8	NC APPENDIX B V
C-1.0	OVERALL SITE PLAN
C-1.1	DETAILED SITE PLAN
C-1.2	DIMENSIONED SITE PLAN
C-1.3	GRADING PLAN
C-2	TOWER ELEVATION
C-3	ANTENNA SCHEDULE
C-3.1	ANTENNA LAYOUTS
C-4.1	SHELTER DETAILS
C-4.2	SHELTER FOUNDATION DETAILS
C-4.3	GENERATOR & GENERATOR FOUNDATION DETAILS
C-4.4	ICE BRIDGE DETAILS
C-4.5	FENCE DETAILS
E-1	ELECTRICAL NOTES
E-2	PANEL SCHEDULE
E-3	ELECTRICAL PLAN
E-4	ELECTRICAL ONE-LINE DIAGRAM
G-1	GROUNDING PLAN
G-2	GROUNDING DETAILS



SITE SUMMARY

NEW CONSTRUCTION

SELF SUPPORT

WATAUGA COUNTY

180' ±

UTILITY & MISCELLANEOUS (U)

N 36\* 10' 31.78" (36.1754950°)

W 81° 30' 51.21" (-81.5142249")

WATAUGA COUNTY

WATAUGA

2859729120000

2,120.5

B.R.E.M.C.

SITE TYPE:

STRUCTURE TYPE:

STRUCTURE OWNER:

ANTENNA SITE REG. NO.

STRUCTURE HEIGHT (AGL):

OCCUPANCY TYPE:

STRUCTURE LATITUDE:

STRUCTURE LONGITUDE

JURISDICTION

COUNTY

PARCEL ID:

GROUND ELEV. (NAVD 88):

POWER PROVIDER

FIBER PROVIDER





## POWDER HORN MOUNTAIN

SITE ADDRESS: 340 DEER RUN ROAD STONY FORK, NC 28607 LATITUDE/LONGITUDE: 36.1754950°, -81.5142249



R	EV	DATE	DETAILS
	0	12/22/2022	CONSTRUCTION
	1	02/07/2025	CONSTRUCTION
ΙГ	2	05/30/2025	COMPOUND REDESIGN
ΙГ	3		
	4		
ΙГ	5		
	6		
	7		
	8		
	9		
	10		
	11		
	12		
	13		
	14		
10	RAV	AN BY: FB	CHECKED BY: AS

SHEET TITLE:

TITLE PAGE

SHEET# T-1

#### **GENERAL NOTES**

- ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND CARRIER PROJECT SPECIFICATIONS.
- 2. GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND SHALL CONFIRM THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL
  APPLICABLE CODES, REGULATIONS AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE
  ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES,
  REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE
  PEPEPEMANCE OF WORKE.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED IN THESE DRAWMICS
- 6. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY VINLESS OTHERWISE HODED DIMENSIONS SHOWN ARE TO FINISHED SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIEV DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OSTANING A CLARIFICATION FROM THE ENDINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN IN THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEFDING.
- 9. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACEN, AREA, AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL BIRDINGTON.
- GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
- 11. ERECTION SHALL BE DONE IN WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE ALL MEMBERS SHALL BE LAUD PLUMB AND TRUE AS INDICATED IN THE DRAWNINGS.
- SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. CONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
- 13. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK.
- 15. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- 16. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION
- 17. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
- 19. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
- 20. THE GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NO LESS THAN 2-A OT 2-A:10-B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.

#### **GENERAL NOTES (CONTINUED)**

- 21. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
- 22. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OF LOCAL UTILITIES.
- 23. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
- 24. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
- 25. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR FMFANKMENT
- 26. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
- 27. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
- 28. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
- CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT
- 30. CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION
- 31. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
- STRUCTURE IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY CARRIER TECHNICIANS.
- 33. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
- 34. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CARRIER GROUNDING STANDARD. IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
- 35. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
- 36. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- 37. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- 38. ALL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
- NO WHITE STROBE LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.

#### ANTENNA MOUNTING NOTES

- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS NOTED OTHERWISE.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS NOTED OTHERWISE.
- 3. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN
- ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH LOCK NUTS, DOUBLE NUTS AND SHALL BE TORQUED TO MANUFACTURER'S RECOMMENDATIONS.
- 5. CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND GROUNDING.
- PRIOR TO SETTING ANTENNA AZIMUTHS AND DOWNTILTS, ANTENNA CONTRACTOR SHALL CHECK THE ANTENNA MOUNT FOR TIGHTNESS AND ENSURE THAT THEY ARE PLUMB. ANTENNA AZIMUTHS SHALL BE SET FROM TRUE NORTH AND BE ORIENTED WITHIN +- 5% AS DEFINED BY THE RFDS. ANTENNA DOWNTILTS SHALL BE WITHIN +/-0.5% AS DEFINED BY THE RFDS. REFER TO ND-0024F.

#### TORQUE REQUIREMENTS

- 1. ALL RF CONNECTIONS SHALL BE TIGHTENED BY A TORQUE WRENCH.
- ALL RF CONNECTIONS, GROUNDING HARDWARE AND ANTENNA HARDWARE SHALL
  HAVE A TORQUE MARK INSTALLED IN A CONTINUOUS STRAIGHT LINE FROM BOTH
  SIDES OF THE CONNECTION
- 3. RF CONNECTION BOTH SIDES OF THE CONNECTOR.
- GROUNDING AND ANTENNA HARDWARE ON THE NUT SIDE STARTING FROM THE THREADS TO THE SOLID SURFACE. EXAMPLE OF SOLID SURFACE: GROUND BAR, ANTENNA BRACKET METAI.
- 5. ALL 8M ANTENNA HARDWARE SHALL BE TIGHTENED TO 9 LB-FT (12 NM).
- 6. ALL 12M ANTENNA HARDWARE SHALL BE TIGHTENED TO 43 LB-FT (58 NM).
- 7. ALL GROUNDING HARDWARE SHALL BE TIGHTENED UNTIL THE LOCK WASHER COLLAPSES AND THE GROUNDING HARDWARE IS NO LONGER LOOSE.
- ALL DIN TYPE CONNECTIONS SHALL BE TIGHTENED TO 18-22 LB-FT (24.4-29.8 NM).
- 9. ALL N TYPE CONNECTIONS SHALL BE TIGHTENED TO 15-20 LB-IN (1.7-2.3 NM)

#### COAXIAL CABLE NOTES

- TYPES AND SIZES OF THE ANTENNA CABLE ARE BASED ON ESTIMATED LENGTHS. PRIOR TO ORDERING CABLE, CONTRACTOR SHALL VERIEY ACTUAL LENGTH BASED ON CONSTRUCTION LAYOUT AND NOTIFY THE PROJECT MANAGER IF ACTUAL LENGTHS EXCEED ESTIMATED
- 2. CONTRACTOR SHALL VERIFY THE DOWN-TILT OF EACH ANTENNA WITH A DIGITAL LEVEL.
- CONTRACTOR SHALL CONFIRM COAX COLOR CODING PRIOR TO CONSTRUCTION. REFER TO "ANTENNA SYSTEM LABELING STANDARD" ND-00027 LATEST VERSION.
- 4. ALL JUMPERS TO THE ANTENNAS SHALL BE 1/2" DIA. LDF AND SHALL NOT EXCEED 6'-0".
- ALL COAXIAL CABLE SHALL BE SECURED TO THE DESIGNED SUPPORT STRUCTURE, IN AN APPROVED MANNER, AT DISTANCES NOT TO EXCEED 4'-0" OC.
- CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS REGARDING BOTH THE INSTALLATION AND GROUNDING OF ALL COAXIAL CABLES, CONNECTORS, ANTENNAS, AND ALL OTHER EQUIPMENT.
- CONTRACTOR SHALL WEATHERPROOF ALL ANTENNA CONNECTORS WITH SELF
  AMALGAMATING TAPE. WEATHERPROOFING SHALL BE COMPLETED IN STRICT ACCORDANCE
  WITH INDUSTRY STANDARDS.

#### **GENERAL CABLE AND EQUIPMENT NOTES**

- CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ANTENNA, TMAS, DIPLEXERS, AND COAX CONFIGURATION, MAKE AND MODELS PRIOR TO INSTALLATION.
- ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- 3. CONTRACTOR SHALL REFERENCE THE STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR

#### PREPARED BY:



3227 WELLINGTON COURT RALEIGH, NC 27615 919-782-2710 www.ets-plic.com



## POWDER HORN MOUNTAIN

SITE ADDRESS: 340 DEER RUN ROAD STONY FORK, NC 28607 LATITUDE/LONGITUDE: 36 1754950° -81.5142249°



DRAWN BY: FB CHECKED BY: AS

SHEET TITLE:

**GENERAL NOTES I** 

SHEET # GN-1 | CURRENT REV #: 2 ETS #: 21099302

#### **GENERAL CABLE AND EQUIPMENT NOTES**

- ALL OUTDOOR RF CONNECTORS/CONNECTIONS SHALL BE WEATHERPROOFED, EXCEPT THE RET CONNECTORS, USING BUTYL TAPE AFTER INSTALLATION AND FINAL CONNECTIONS ARE MADE BUTYL TAPE SHALL HAVE A MINIMUM OF ONE-HALF TAPE WIDTH OVERLAP ON EACH TURN AND EACH LAYER SHALL BE WRAPPED THREE TIMES. WEATHERPROOFING SHALL BE SMOOTH WITHOUT BUCKLING BUTYL BLEEDING IS NOT ALLOWED.
- IF REQUIRED TO PAINT ANTENNAS AND/OR COAX:

  1. TEMPERATURE SHALL BE ABOVE 50° F.
- PAINT COLOR MUST BE APPROVED BY BUILDING OWNER/LANDLORE
- FOR REGULATED TOWERS, FAAIFCC APPROVED PAINT IS REQUIRED.
  DO NOT PAINT OVER COLOR CODING OR ON EQUIPMENT MODEL NUMBERS
- ALL PROPOSED GROUND BAR DOWNLEADS ARE TO BE TERMINATED TO THE EXISTING ADJACENT GROUND BAR DOWNLEADS A MINIMUM DISTANCE OF 4"-0" BELOW GROUND BAR TERMINATIONS MAY BE EXOTHERMIC OR COMPRESSION.
- ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATION & RECOMMENDATIONS NO BOLT THREADS TO PROTRUDE MORE THAN 1-1/2" (.038M). 90 SHORT SWEEPS UNDER ANTENNA ARM. ALL CABLES MUST ONLY TRANSITION ON THE INSIDE
- OR BOTTOM OF ARMS (NO CABLE ON TOP OF ARMS).
  USE 90 CONNECTOR AT CABLE CONNECTION TO ANTENNAS.
- PLACE GPS ON ARM WITH SOUTHERN SKY EXPOSURE AT MINIMUM 6' [1.83] FROM TRANSMIT
- ANTENNA, WHICH IS 24" I 61MI AWAY FROM CENTER OF POLE.
- USE 1/2" (013M) CABLE ON ANTENNA UNLESS OTHERWISE SPECIFIED.
  FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SEALANT TO PREVENT WATER

#### **FIBER & POWER CABLE MOUNTING**

- THE FIBER OPTIC TRUNK CABLES SHALL BE INSTALLED INTO CONDUITS. CHANNEL CABLE TRAYS, OR CABLE TRAY. WHEN INSTALLING FIBER OPTIC TRUNK CABLES INTO A CABLE TRAY SYSTEM, THEY SHALL BE INSTALLED INTO AN INTER DUCT AND A PARTITION BARRIER SHALL BE INSTALLED BETWEEN THE 600 VOLT CABLES AND THE INTER DUCT IN ORDER TO SEGREGATE CABLE TYPES OPTIC FIBER TRUNK CABLES SHALL HAVE APPROVED CABLE RESTRAINTS EVERY (60) SIXTY FEET AND SECURELY FASTENED TO THE CABLE TRAY SYSTEM. NFPA 70
- (NEC) ARTICLE 770 RULES SHALL APPLY.
  THE TYPE TC-ER CABLES SHALL BE INSTALLED INTO CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY AND SHALL BE SECURED AT INTERVALS NOT EXCEEDING (6) SIX FEET. AN EXCEPTION: WHERE TYPE TC-FR CABLES ARE NOT SUBJECT TO PHYSICAL DAMAGE. CABLES OR CABLE TRAY WHICH ARE SERVING UTILIZATION FOUIPMENT OR DEVICES, A DISTANCE (6) SIX FEET SHALL NOT BE EXCEEDED WITHOUT CONTINUOUS SUPPORTING, NFPA 70 (NEC)
- WHEN INSTALLING OPTIC FIBER TRUNK CABLES OR TYPE TC-ER CABLES INTO CONDUITS, NFPA 70 (NEC) ARTICLE 300 RULES SHALL APPLY

#### STRUCTURAL STEEL NOTES

- THE FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATION FOR MANUAL OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN 15TH EDITION
- UNLESS OTHERWISE NOTED, ALL STRUCTURAL ELEMENTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS STRUCTURAL STEEL:
  - ANGLE: ASTM A36
  - PIPE/TUBE: ASTM A500-50
  - PLATE: ASTM A36
- A. ALL BOLTS, ASTM A325 TYPE I GALVANIZED HIGH STRENGTH BOLTS
- B. ALL U-BOLTS. ASTM A193 GRADE B7
- C. ALL NUTS. ASTM A563 CARBON AND ALLOY STEEL NUTS.
- D. ALL WASHERS, ASTM F436 HARDENED STEEL WASHERS.
- ALL CONNECTIONS NOT FULLY DETAILED ON THESE PLANS SHALL BE DETAILED BY THE STEEL FABRICATOR IN ACCORDANCE WITH AISC SPECIFICATION FOR MANUAL OF STEEL CONSTRUCTION LOAD AND RESISTANCE FACTOR DESIGN 15TH EDITION
- HOLES SHALL NOT BE FLAME CUT THRU STEEL UNLESS APPROVED BY THE ENGINEER. HOT-DIP GALVANIZE ALL ITEMS UNLESS OTHERWISE NOTED, AFTER FABRICATION WHERE PRACTICABLE, GALVANIZING: ASTM A123, ASTM, A153/A153M OR ASTM A653/A653M, G90, AS
- APPLICABLE REPAIR DAMAGED SURFACES WITH GALVANIZING REPAIR METHOD AND PAINT CONFORMING TO ASTM A780 OR BY APPLICATION OF STICK OR THICK PASTED MATERIAL SPECIFICALLY DESIGNED FOR REPAIR OF GALVANIZING. CLEAN AREAS TO BE REPAIRED AND REMOVE SLAG FROM WELDS. HEAT SURFACES TO WHICH STICK OR PASTE MATERIAL IS APPLIED. WITH A TORCH TO A TEMPERATURE SUFFICIENT TO MELT THE METALLICS IN STICK OR PASTED
- EXCESS MATERIAL A NUT LOCKING DEVICE SHALL BE INSTALLED ON ALL PROPOSED AND/OR REPLACED BOLTS.
- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH TO EXCLUDE THE ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE
- END OF THE BOLT BE AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.

#### **BOLT TIGHTENING PROCEDURE**

- CONNECTION BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8.2 OF THE AISC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS, LOCATED IN THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS PARAPHRASED AS FOLLOWS:
- FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SUBSECTION 8.2.1 THROUGH 8.2.4. 8.2.1 TURN-0F-THE-NUT TIGHTENING. BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1, UNTIL ALL THE BOLTS ARE SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS FULLY COMPACTED, FOLLOWING THIS INITIAL OPERATION ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENEO FURTHER BY THE APPLICABLE AMOUNT OF ROTATION SPECIFIED ABOVE. DURING THE TIGHTENING OPERATION THERE SHALL BE NO ROTATION OF THE PART NOT TURNED BY THE WRENCH, TIGHTENING SHALL PROGRESS SYSTEMATICALLY FROM THE MOST RIGID PART THE JOINT IN A MANNER THAT WILL MINIMIZE RELAXATION OF PREVIOUSLY PRETENSIONED
- TIGHTEN CONNECTION BOLTS BY AISC "TURN OF THE NUT" METHOD, USING THE CHART BELOW.

BOLIL	ENGTHS UP TO AND INCLUDING FOUR DIA.	
1/2"	BOLTS UP TO AND INCLUDING 2.0 INCH LENGTH	+½ TURN BEYOND SNUG TIGHT
%"	BOLTS UP TO AND INCLUDING 2.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
3/4"	BOLTS UP TO AND INCLUDING 3.0 INCH LENGTH	+ 1/3 TURN BEYOND SNUG TIGHT
1/8"	BOLTS UP TO AND INCLUDING 3.5 INCH LENGTH	+ 1/3 TURN BEYOND SNUG TIGHT
1"	BOLTS UP TO AND INCLUDING 4.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
BOLTI	ENGTHS OVER FOUR DIA BUT NOT EXCEEDING FIGHT	T DIA

BOLT L	ENGTHS OVER FOUR DIA. BUT NOT EXCEEDIN	G EIGHT DIA.
1/2"	BOLTS 2.25 TO 4.0 INCH LENGTH	+½ TURN BEYOND SNUG TIGHT
5/8"	BOLTS 2.75 TO 5.0 INCH LENGTH	+½ TURN BEYOND SNUG TIGHT
3/4"	BOLTS 3.25 TO 6.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1/8"	BOLTS 3.75 TO 7.0 INCH LENGTH	+½ TURN BEYOND SNUG TIGHT
1"	BOLTS 4.25 TO 8.0 INCH LENGTH	+½ TURN BEYOND SNUG TIGHT

#### ALL OTHER BOLTED CONNECTIONS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1 OF THE SPECIFICATION

#### **FOUNDATION NOTES**

#### FOUNDATION GENERAL NOTES

- FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED PRACTICES AND IN A GOOD WORKMANLIKE MANNER
- CONTRACTOR TO VERIFY DIMENSIONS WITH ORIGINAL TOWER DRAWINGS. ETS SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN FIELD MEASURED DIMENSIONS AND ORIGINAL TOWER DRAWINGS
- FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT THE DESIGN PARAMETERS ARE NOT APPLICABLE FOR THE SUBSURFACE CONDITIONS ENCOUNTERED DURING CONSTRUCTION
- DURING CONSTRUCTION. FOR FOUNDATION TOLERANCES, SEE ORIGINAL TOWER DRAWINGS. THE FOUNDATION MODIFICATION DESIGN IS IN ACCORDANCE WITH GENERALLY ACCEPTED PROFESSIONAL ENGINEERING PRINCIPLES AND PRACTICES WITHIN THE LIMITS OF SUBSURFACE DATA PROVIDED
- THE FOUNDATION DEPTH INDICATED IS BASED ON THE GRADE LINE DESCRIBED IN THE REFERENCE GEOTECHNICAL REPORT. FOUNDATION MODIFICATION MAY BE REQUIRED IN THE EVENT CUT OR FILL OPERATIONS HAVE TAKEN PLACE SUBSEQUENT TO THE GEOTECHNICAL
- THE FOUNDATION DESIGN ASSUMES THAT INSTAULATION METHODS WILL INCORPORATE THE PROCEDURES RECOMMENDED IN THIS REPORT.
  THE FOUNDATION DESIGN ASSUMES FIELD INSPECTIONS WILL BE PERFORMED TO VERIFY
- THAT CONSTRUCTION MATERIALS INSTALLATION METHODS AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON THE CONDITIONS AT THE SITE.

  THE FOUNDATION DESIGN ASSUMES NO CONSTRUCTION JOINTS, HOWEVER, CONSTRUCTION
- JOINTS SHALL BE PERMITTED UPON APPROVAL BY THE OWNER/ENGINEER

#### EXCAVATION

- WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND SAFETY REGULATIONS PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION, AND UTILITIES SHALL BE ESTABLISHED PRIOR TO BEGINNING WORK
- THE SIDES OF THE EXCAVATION SHALL BE ROUGH AND FREE OF CUTTINGS.
  LOOSE MATERIAL TO BE REMOVED FROM THE BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT

#### REINFORCING STEEL

- THE REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615, GRADE 60 IT SHALL BE DEFORMED AND SPLICES SHALL NOT BE ALLOWED UNLESS OTHERWISE NOTED. WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS
- REINFORCING CAGES SHALL BE BRACED TO RETAIN PROPER DIMENSIONS DURING HANDLING AND THROUGHOUT PLACEMENT OF CONCRETE. WHEN TEMPORARY CASING IS UTILIZED, BRACING SHALL BE ADEQUATE TO RESIST FORCES OCCURRING FROM FLOWING CONCRETE DURING CASING EXCAVATION
- SPACERS SHALL BE ATTACHED INTERMITTENTLY THROUGHOUT THE ENTIRE LENGTH OF TIEBACK REINFORCING TO INSURE CONCENTRIC PLACEMENT OF CASING IN EXCAVATIONS.
- MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3" UNLESS OTHERWISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3" MINIMUM COVER FOR REINFORCEMENT
- THE CONCRETE COVER FROM THE TOP OF THE FOUNDATION TO THE ENDS OF THE VERTICAL REINFORCEMENT SHALL NOT BE LESS THAN 3"

#### **FOUNDATION NOTES (CONTINUED)**

#### CONCRETE

- WORK SHALL BE IN ACCORDANCE WITH THE ACI 318-14, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY"
- THE CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3000-PSI IN 28 DAYS ANY CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED AS REQUIRED BY ACI 318-14 PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABLITY REQUIREMENTS OF ACI 318-14 SHALL BI
- CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETI MATERIALS, INFILTRATION OF WATER OR SOIL, AND OTHER OCCURRENCES THAT MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION

SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE

- THE SIDES OF THE EXCAVATION, FORMWORK, REINFORCING BARS, FORM TIES, CAGE BRACING OR OTHER OBSTRUCTIONS. UNDER NO CIRCUMSTANCES SHALL CONCRETE FALL THROUGH
- WATER. THE MAXIMUM SIZE OF THE AGGREGATE SHALL NOT EXCEED A SIZE SUITABLE FOR THE INSTALLATION METHODS UTILIZED OR 2/3-CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. THE MAXIMUM SIZE MAY BE INCREASED TO 2/3-CLEAR DISTANCE PROVIDED WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING WILL PREVENT HONEYCOMBS AND VOIDS

#### FINISHING

THE TOP OF THE FOUNDATION SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISH THE EXPOSED EDGES OF THE CONCRETE SHALL BE CHAMFERED 1" X 1".

#### EPOXY NOTES

- EPOXY AGENTS SHOULD BE ALLOWED TO CURE ACCORDING TO MANUFACTURERS RECOMMENDATIONS
- ALL HARDWARE ASSEMBLY AND MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED; ANY CONTRADICTION BETWEEN THE MANUFACTURER'S RECOMMENDATIONS AND THESE DRAWINGS ARE TO BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER AND
- ANY CONTRACTOR INSTALLING ADHESIVE ANCHORING SYSTEMS SHALL BE TRAINED. IN PERSON BY A MANUFACTURER'S REPRESENTATIVE. ON THE PROPER INSTALLATION TECHNIQUES. THIS TRAINING SHALL INCLUDE PROPER DRILLING, HOLE CLEANING, AND INSTALLATION METHODS FOR THE ADHESIVE ANCHORING SYSTEM AND CONSTRUCTION CONDITIONS ON THIS PROJECT. ALL TRAINING TO BE CONDUCTED PRIOR TO CREWS STEPPINI ON SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT MANUFACTURER REPRESENTATIVE TO SET UP TRAINING. ETS IS NOT RESPONSIBLE FOR ANY COST OCCURRED FOR OR DURING ADHESIVE ANCHORING SYSTEM TRAINING

#### SOIL COMPACTION

- SHAPE TOP OF SUBGRADE TO THE LINES AND GRADES SHOWN ON THE DRAWINGS. MAINTAIN TOP OF SUBGRADE IN A FREE-DRAINING CONDITION.
- DO NOT STOCKPILE MATERIALS ON TOP OF SUBGRADE UNLESS AUTHORIZED BY CONSTRUCTION MANAGER.
- FOR SUBGRADES CONSISTING OF IN-PLACE NATIVE SOILS, SOILS SHALL BE FREE OF CUTTING AND OTHER LOOSE MATERIAL AND SHALL MEET THE MINIMUM BEARING CAPACIT REQUIREMENTS NOTES UNDER SOIL STRENGTH FOR SUBGRADES CONSISTING OF PLACED STRUCTURAL FILL, STRUCTURAL FILL SHOULD BE PLACED IN 6 INCH LIFTS AND COMPACTED TO A MINIMUM OF 95 PERCENT OF THE
- MAXIMUM DRY DENSITY AS OBTAINED BY THE STANDARD PROCTOR METHOD CONSTRUCT TOP OF SUBGRADE WITHIN ONE INCH OF ESTABLISHED GRADE AND

#### SOIL STRENGTH

FOUNDATION DESIGN IS BASED ON A 2000 PSF SOIL BEARING CAPACITY. IF OTHER CONDITIONS EXIST, FOUNDATION SHALL BE REDESIGNED, CONTRACTOR SHALL HAVE SOIL BEARING CAPACITY VERIFIED BY A LICENSED PROFESSIONAL GEOTECHNICAL ENGINEER PRIOR TO

#### **WELDING NOTES**

- ALL WELDING SHALL BE IN ACCORDANCE WITH THE AWS D1.1/D1.1M: 2015 "STRUCTURAL WELDING CODE-STEEL
- ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS
- CONTRACTOR SHALL RETAIN AN AWS CERTIFIED WELD INSPECTOR TO PERFORM VISUAL INSPECTIONS ON FIELD WELDS. A LETTER AND REPORT SHALL BE ISSUED TO THE CONTRACTOR. CONTRACTOR SHALL SUBMIT LETTER AND REPORT TO TOWER OWNER.
- GRIND THE SURFACE ADJACENT TO THE WELD FOR A DISTANCE OF 2" MINIMUM ALL AROUND. GRIND THE SURFACE OF THE ROD TO BE INSTALLED FOR A DISTANCE OF 2" MINIMUM ALL AROUND THE AREA TO BE WELDED. ENSURE BOTH AREAS ARE 100% FREE OF ALL GALVANIZING, SURFACES TO BE WELDED SHALL BE FREE FROM SCALE, SLAG, RUST MOISTURE, GREASE OR ANY OTHER FOREIGN MATERIAL THAT WOULD PREVENT PROPER
- DO NOT WELD IF THE TEMPERATURE OF THE STEEL IN THE VICINITY OF THE WELD AREA IS BELOW 0°F, WHEN THE TEMPERATURE IS BETWEEN 0°F AND 32°F, PREHEAT AND MAINTAIN THE STEEL IN THE VICINITY OF THE WELD AREA AT 70°F DURING THE WELDING PROCESS.
- DO NOT WELD ON WET OR FROST-COVERED SURFACES & PROVIDE ADEQUATE PROTECTION
- FOR ALL WELDING, USE E70XX ELECTRODES.
- AFTER FINAL INSPECTION, THE AREA OF THE WELDS, THE INSTALLATION AND ALL SURFACES DAMAGED BY WELDING OR GRINDING SHALL RECEIVE A COLD-GALVANIZED COATING THIS COATING SHALL BE APPLIED BY BRUSH. THE GALVANIZING COMPOUND SHALL CONTAIN A MINIMUM OF 95% ± PURE ZINC. THE FINISHED COATING SHALL BE A MINIMUM THICKNESS OF 3



3227 WELLINGTON COURT RALEIGH, NC 27615 www.ets-pllc.com

PREPARED FOR



## POWDER HORN MOUNTAIN

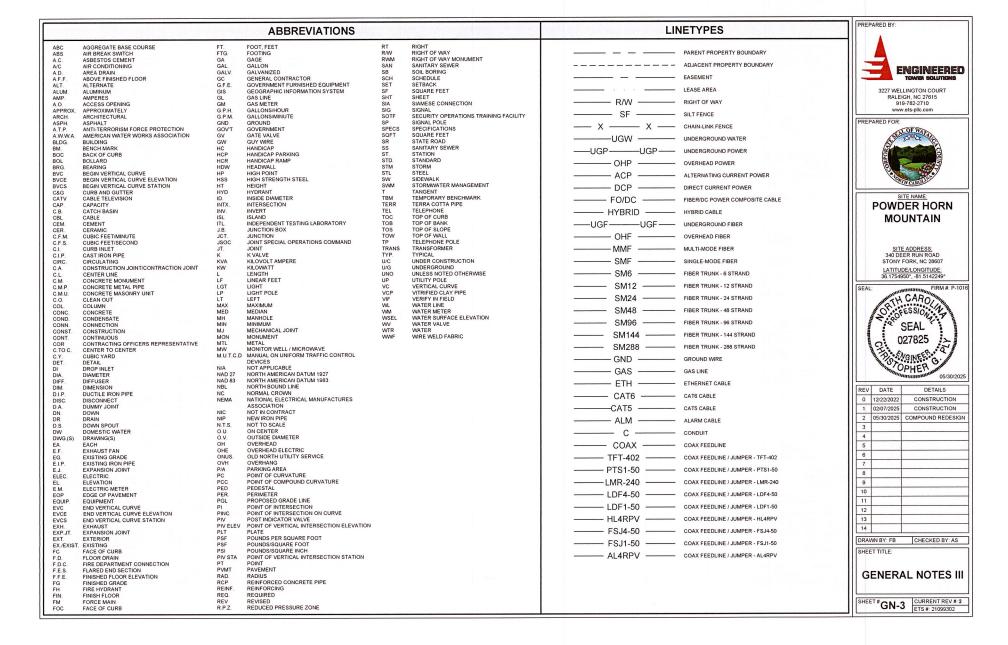
SITE ADDRESS: 340 DEER RUN ROAD STONY FORK, NC 28607



			03/30/2020
REV	DATE	DE	TAILS
0	12/22/2022	CONST	RUCTION
1	02/07/2025	CONST	RUCTION
2	05/30/2025	COMPOUN	ID REDESIGN
3			
4			
5			
6			
7		Name of the	
8			
9			
10			
11			
12			
13		top one to a service	
14			
DRAV	MN BY: FB	CHECH	ED BY: AS

**GENERAL NOTES II** 

SHEET # GN-2 | CURRENT REV #: 2 | ETS #: 21099302



#### 2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

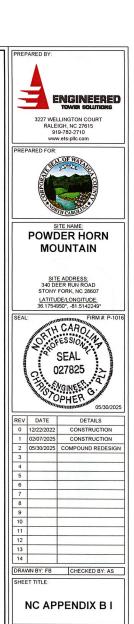
Address: 340	DEER RUN ROAD, STON	Y FORK, NC				Zip Co	ode 28607
Owner/Autho	rized Agent: WATAU	GA COUNTY Pho	one # (	)		E-Ma	il
Owned By:		City/County		☐ Privat	te	$\boxtimes$	State
Code Enforce	ement Jurisdiction:	City		□ Cour	ty_WATAL	JGA	State
CONTACT:							
DESIGNER Architectural	FIRM	NAME	LICEN	ISE# TE	ELEPHON		E-MAIL
Civil	Engineered Tower Solut	ions, PLLC Chris	topher Ply	027825			Chris.Ply@ets-pllc.com
Electrical					(	)	
Fire Alarm Plumbing							
Mechanical							
	dpipe				_(_	)	
Structural					_(	)	
Retaining Wall Other	s >5' High				_(_)		
	d include firms and indiv	iduals such as trus	s, precast,	pre-engineere	d, interior	lesigners, e	etc.)
2018 NC EX	F □ F ISTING BUILDING C	Shell/Core Phased Construction CODE:  Presultion:  Leve	criptive	tion Shell/Core □ Repair □ Level		☐ Chap	
CON	F F STING BUILDING O Altera STRUCTED:(dale)	Phased Construction Renovation CODE:  Pres tion:  Histo OR CU	criptive II I oric Prope IGINAL C RRENT C	Repair Level erty	II CY(S) (Ch	Level Chan 1. 3): 1. 3):	I III nge of Use
CONS RENC RISK CATEO BASIC BUIL Constructio (check all that Sprinklers:	STRUCTED: (date) SORY (table 1604.5)  DING DATA n Type:   -A at apply)   -B	Phased Constrict Renovation ODE: Service Press   Histor   Leve	criptive II I pric Prope IGINAL C RRENT C I I I I III IIII IIII NFPA 13	Chell/Core  Repair Level PCCUPANO CCUPANO	DY(S) (Cr CY(S) (Cr C) (C)	Level Chan 1. 3): 1. 3): III	IIII age of Use
CONS RENG RISK CATEO BASIC BUIL Constructio (check all tha Sprinklers: Standpipes:	ISTING BUILDING CAITER ATTER ATTER ATTER ATTER ATTER ATTER ATTER ATTER ATTER AND PARTIAL	Phased Constrict	criptive II I Oric Prope IGINAL C RRENT C I I I I I III I IIII I III I III I III I	Shell/Core  Repair Level entry CCCUPANG II III III		Level	IIII Igge of Use
RENG RESK CATEGO BASIC BUIL Constructio (check all that Sprinklers: Standpipes: Fire District: Special Inspec	ISTING BUILDING DATA n Type:   I-A tt apply)   I-B   M No   Partial    M No   Yes Cle   M No   Yes (Pri	Phased Constrict	criptive II I Oric Prope IGINAL C RRENT C I I I I I III I IIII I III I III I III I	Shell/Core  Repair Level enty CCCUPANG II III	CY(S) (Cr CY(S) (Cr CY(S) (Cr IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Level	UV-A V-B

Appendix B for Building

2018 NC Administrative Code and Policies

2018 NC Administrative Code and Policies

		Gross Bu	uilding Area:	
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	RENO/ALTER (SQ.FT)	SUB-TOTAL
3rd Floor				and the state of t
2nd Floor				
Mezzanine				
1st Floor	0	219	0	219
Basement				
TOTAL				
		ALLOWA	BLE AREA	
Primary Occu	ipancy Classificat	ion: SELECT ON	<u>NE</u>	
Assembly	□ A-1 □ A-2 □ A	A-3 □ A-4 □ A-5	5	
Business	П			
Educationa	ıΠ			
Factory	☐ F-1 Moderate	☐ F-2 Lo	w	
Hazardous	H-1 Detonate	H-2 Deflagrate	H-3 Combust H-4	Health ┌│ H-5 HPM
	I I-1 Condition	1 2		
	1-2 Condition			
	1-3 Condition	□1 2 □ :	3 🗆 4 🗆 5 🗆	
	□ 1-4			
Mercantile				
	R-1 R-2 1			
Storage	S-1 Moderate	_ □ S-	2 Low High-piled	
	Parking Garage	Open En	closed Repair Garag	ge
Utility and	Miscellaneous 🖂			
	(Table 509):			
	Chapter 4 – List Code			
	ons: (Chapter 5 – List			
Mixed Occupa		Yes Separ	ration: Hr. Exception:	-
☐ Non-Sep	parated Use (508.3)			
The requ	ired type of construct	ion for the building	shall be determined by app	lying the height and area limit
for each	of the applicable occ	upancies to the ent	tire building. The most restri	ctive type of construction, so
	ned, shall apply to the	entire building.		
	ed Use (508.4) -	for each sta "		
ratios of	the actual floor area	is ior each story, the of each use divided	ie area of the occupancy sh I by the allowable floor area	all be such that the sum of the for each use shall not exceed
Actus	al Area of Occupancy	A + Actual Ar	rea of Occupancy B ≤ 1	
	ole Area of Occupanc		Area of Occupancy B	
71101141				= ≤1.00



SHEET # GN-4 | CURRENT REV #: 2 ETS #: 21099302

Appendix B for Building

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 <sup>4</sup> AREA	(C) AREA FOR FRONTAGE INCREASE <sup>1,5</sup>	(D) ALLOWABLE AREA PER STORY OR UNLIMITED <sup>2,3</sup>

Frontage area increase:	from Section	n 506.3 are computed the	us:
-------------------------	--------------	--------------------------	-----

- e. Percent of frontage increase I<sub>F</sub> = 100 [ F/P 0.25] x W/30 = \_\_
- 2 Unlimited area applicable under conditions of Section 507.

  3 Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).

  4 The maximum area of open parking garages must comply with Table 406.5.4.

  5 Frontage increase is based on the unsprinklered area value in Table 506.2.

#### ALLOWABLE HEIGHT

Process States in 22 Follows	ALLOWABLE (TABLE 503)	SHOWN ON PLANS	CODE REFERENCE <sup>1</sup>
Building Height in Feet (Table 504.3) <sup>2</sup>			
Building Height in Stories (Table 504.4) <sup>3</sup>			

- Provide code reference if the "Show on Plans" quantity is not based on Table 504.3 or 504.4.

  The maximum height of air traffic control towers must comply with Table 412.3.1

  The maximum height of open parking garages must comply with Table 406.5.4

#### FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE	All the same	RATING	DETAIL #			SHEET	
	SEPARATION	REQ'D	PROVIDED (W/	AND SHEET#	FOR	RATED	FOR	
	DISTANCE (FEET)	REDUCTION)		SHEET#	RATED ASSEMBLY	PENETRATION	JOINTS	
Structural Frame,								
including columns, girders,								
trusses							-	
Bearing Walls								
Exterior								
North								
East								
West								
South								
Interior								
Nonbearing Walls and Partitions					,			
Exterior walls								
North								
East								
West								
South								
Interior walls and partitions								
Floor Construction Including supporting beams		l		VFP SHEET			1	
		l		C-4.1			1	
and joists							_	
Floor Ceiling Assembly		_					-	
Column Supporting Floors							-	
Roof Construction, including supporting beams and joists								
Roof Ceiling Assembly								
Column Supporting Roof								
Shaft Enclosures - Exit								
Shaft Enclosures - Other								
Corridor Separation			-					
Occupancy/Fire Barrier								
Separation							_	
Party/Fire Wall Separation			-				-	
Smoke Barrier Separation							-	
Smoke Partition							-	
Tenant/Dwelling Unit/ Sleeping Unit Separation								
Incidental Use Separation								





## POWDER HORN MOUNTAIN

SITE ADDRESS: 340 DEER RUN ROAD STONY FORK, NC 28607 LATITUDE/LONGITUDE: 36.1754950°, -81.5142249°



REV	DATE	DETAILS
0	12/22/2022	CONSTRUCTION
1	02/07/2025	CONSTRUCTION
2	05/30/2025	COMPOUND REDESIG
3		
4		
5		
6		
7		
8		
9		
10		W1 45 2
11		
12		
13		
14		
DRAV	NN BY: FB	CHECKED BY: AS

SHEET TITLE:

Appendix B for Building

NC APPENDIX B II

SHEET # GN-5 | CURRENT REV #: 2 ETS #: 21099302

2018 NC Administrative Code and Policies Appendix B for Building

2018 NC Administrative Code and Policies

99

	PERCENTAGE OF WALL O	PENING CALCULATION	NS
FIRE SEPARATION DISTANCE (FEET FROM PROPERTY LINES	DEGREES OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
_	LIFE SAFETY SYSTEM	M REQUIREMENTS	
Emergency Lighting: Exit Signs:	□ No ⊠ Yes □ No ⊠ Yes		
Fire Alarm: Smoke Detection Systems		ial	
Carbon Monoxide Detection	on: ⊠No □Yes		
	LIFE SAFETY PLAN	REQUIREMENTS	
ife Safety Plan Sheet #:			
	ed wall locations (Chapter 7) perty line locations (if not on	the site plan)	
Exterior wall opening	area with respect to distance	to assumed property line	
Occupancy use for ea	ch area as it relates to occup ch area	ant load calculation (Tab	ble 1004.1.2)
Exit sign location (101			
Common path of trave	distances (1006.2.1 & 2006	5.3.2(1))	
☐ Dead end lengths (10) ☐ Clear exit widths for each			
	ccupant load capacity each	exit door can accommod	ate based on egress width (1005.
Actual occupant load	plan indicating where fire rat	ed floor/ceiling and/or ro	of structure is provided for purpos
□ A separate schematic occupancy separation     □ Location of doors with	panic hardware (1010.1.10)		
occupancy separation  Location of doors with  Location of doors with	delayed egress locks and th		.1.9.7)
occupancy separation  Location of doors with  Location of doors with  Location of doors with		s (1010.1.9.9)	.1.9.7)
occupancy separation  Location of doors with  Location of doors with  Location of doors with  Location of doors equi  Location of emergence	delayed egress locks and the electromagnetic egress lock pped with hold-open devices a scape windows (1030)	s (1010.1.9.9)	.1.9.7)
occupancy separation  Location of doors with  Location of doors with  Location of doors equ  Location of doors equ  The square footage of	delayed egress locks and the electromagnetic egress lock pped with hold-open devices a scape windows (1030)	s (1010.1.9.9) or Occupancy Classificat	ion I-2 (407.5)

2018 NC Administrative Code and Policies

# PREFABRICATED SHELTER SECTION NOT APPLICABLE

## ACCESSIBLE DWELLING UNITS (SECTION 1107)

UNIT CLASSIFICATION	TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A  UNITS REQUIRED	UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

#### ACCESSIBLE PARKING

#### (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PA	RKING SPACES	# OF ACCESSIBLE	SPACES PROVIDED	TOTAL # ACCESSIBLE	
	REQUIRED	PROVIDED	96" SPACES	132" SPACES	PROVIDED	
TOTAL						

#### PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE		- 1	NATERCLOS	ETS	URINALS		LAVATORIE	S	SHOWERS	DRINKING	FOUNTAINS
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	/ TUBS	REGULAR	ACCESSIBLE
SPACE	EXIST'G						1147	100			
	NEW										
	REQ'D										

#### SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, SCO, DPI, DHHS, ICC, etc., describe below)



3227 WELLINGTON COURT RALEIGH, NC 27615 919-782-2710 www.ets-pllc.com

PREPARED FOR:



#### POWDER HORN MOUNTAIN

SITE ADDRESS: 340 DEER RUN ROAD STONY FORK, NC 28607 LATITUDE/LONGITUDE: 36.1754950°, -81.5142249°



REV	DATE	DETAILS
0	12/22/2022	CONSTRUCTION
1	02/07/2025	CONSTRUCTION
2	05/30/2025	COMPOUND REDESIGN
3		
4		
5		229
6		71 2222
7		
8		
9		
10		
11		
12		
13		
14		SEVER LINE

SHEET TITLE:

Appendix B for Building

NC APPENDIX B III

SHEET # GN-6 | CURRENT REV #: 2 | ETS #: 21099302

2018 NC Administrative Code and Policies

2018 NC Administrative Code and Polici

Appendix B for Building

	ENERGY SUMMARY
Conservation Code shall also be provided. E	mum and any special attribute required to meet the North Carolina Energe Each Designer shall furnish the required portions of the project information state the annual energy cost for the standard reference design vs annu
Existing building envelope complies with coo	de: No Yes (The remainder of this section is not applicable)
Exempt Building: No Yes (Provide	Code or Statutory reference):
Climate Zone: ☐ 3A ☐ 4A ☐	5A
	ode Performance Prescriptive 90.1 Performance Prescriptive specify source here)
THERMAL ENVELOPE (Prescriptive metho	d only)
U-Value of total assembly: R-Value of insulation: Skylights in each assembly: U-Value of skylight. Total square footage of skyl Exterior Walls (each assembly): Description of assembly: U-Value of total assembly: R-Value of insulation:	CONCRETE ROOF + (2) LAYERS OF 1-1/2" RIGID INSULATION + 3/4" OSB PAN  0 10  9 8  iiights in each assembly:  4" CONCRETE + 2" THERMAX FOAM INSULATION + 3/4" FRP PANELING  R:13
Openings (windows or door U-Value of assembl Solar heat gain coe Projection factor: Door R-Values:	
Walls below grade (each assembly	iy)
Description of assembly: U-Value of total assembly: R-Value of insulation:	
Floors over unconditioned space Description of assembly: U-Value of total assembly: R-Value of insulation:	(each assembly) NA
Floors slab on grade  Description of assembly:	5000psi CONCRETE WI 1/6'X12'X12' STATIC DISSIPATIVE TILE WI 4" BASE COVE
U-Value of total assembly:	
U-Value of total assembly:	

2018 NC Administrative Code and Policies

# 2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE) DESIGN LOADS: Importance Factors: Snow (Ig) Seismic Seismic Designy Seismic Seismic Designy Seismic Seismic

2018 NC Administrative Code and Policies

Appendix B for Building

PREP	ARED BY:					
	RALE 91	ENGINEERED TOWN SOLUTIONS LLINGTON COURT IGH, NC 27615 9-782-2710 vets-plic.com				
DOCC	ARED FOR:	ricto pilototti				
PREF		TO PRINTED				
П	<u>s</u>	ITE NAME:				
		DER HORN UNTAIN				
	SITE ADDRESS: 340 DEER RUN RÖAD STONY FORK, NC 28607 LATITUDELLONGITUDE: 36.1754950", 31.5142249*					
SEAL	SEAL CARO SESSION SEAL 027825 OPHER					
		ининининини 05/30/2025				
REV 0	DATE 12/22/2022	DETAILS CONSTRUCTION				
1	02/07/2025	CONSTRUCTION				
2	05/30/2025	COMPOUND REDESIGN				
3						
5						
6	-					
7						
8						
9						
10						
12						
13						
14						
DRA	MN BY: FB	CHECKED BY: AS				
SHEE	T TITLE:					
N	IC APE	PENDIX B IV				

SHEET # GN-7 | CURRENT REV #: 2 ETS #: 21099302

Appendix B for Building

#### 2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN
(PROVIDE ON THE MECHANICL SHEETS IF APPLICABLE)

#### MECHANICAL SUMMARY

Thermal Zone	
winter dry bulb:	
summer dry bulb:	
Interior design conditions	
winter dry bulb:	
summer dry bulb:	
relative humidity:	
Building heating load:	
Building cooling load:	
Mechanical Spacing Condition Unitary	a est s
Mechanical Spacing Condition Unitary	ning System  BARD: W24A1-A05XWXXXJ
Mechanical Spacing Condition Unitary	BARD W24A1-A05XWXXXJ 9 00 EER
Mechanical Spacing Condition Unitary description of unit: heating efficiency: cooling efficiency:	BARD W24A1-A05XWXXXU 9 00 EER 9 00 EER
Mechanical Spacing Condition Unitary description of unit: heating efficiency:	BARD W24A1-A05XWXXXU 9 00 EER 9 00 EER
Mechanical Spacing Condition Unitary description of unit: heating efficiency: cooling efficiency:	BARD W2441-A05XW00XU 900 EER 900 EER 24,000 BTUH

# 2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

#### ELECTRICAL SUMMARY

EL ECTRICAL	SYSTEM AND	FOLIDMENT

Meti	nod of Compliance: Energy Code ASHRAE 90.1:	
Ligh	ting schedule (each fixture type)	
	lamp type required in fixture	32W FL
	number of lamps in fixture	2
	ballast type used in the fixture	ELEC
	number of ballasts in fixture	2
	total wattage per fixture	60
		vs. allowed (whole building or space by space of Space by space)
	total exterior wattage specified	vs. allowed
	itional Efficiency Package Option	

- 1 Using the 2018 NCECC; not required for ASTRAC 50.17

  C406.2 More Efficient HVAC Equipment Performance

  C406.3 Reduced Lighting Power Density

  C406.4 Enhanced Digital Lighting Controls

  C406.5 On-Site Renewable Energy

  C406.6 Dedicated Outdoor Air System

  C406.7 Reduced Energy Use in Service Water Heating



3227 WELLINGTON COURT RALEIGH, NC 27615 919-782-2710 www.ets-pllc.com



#### POWDER HORN MOUNTAIN

SITE ADDRESS: 340 DEER RUN ROAD STONY FORK, NC 28607



		and the second of the second o
REV	DATE	DETAILS
0	12/22/2022	CONSTRUCTION
1	02/07/2025	CONSTRUCTION
2	05/30/2025	COMPOUND REDESIG
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
DRAN	VN BY: FB	CHECKED BY: AS

SHEET TITLE:

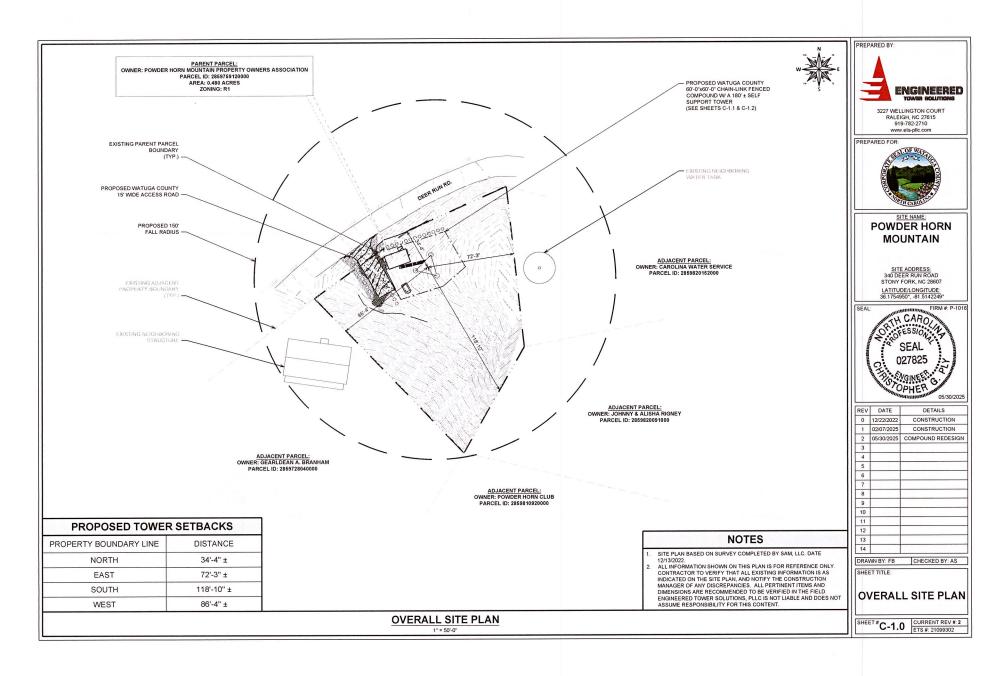
Appendix B for Building

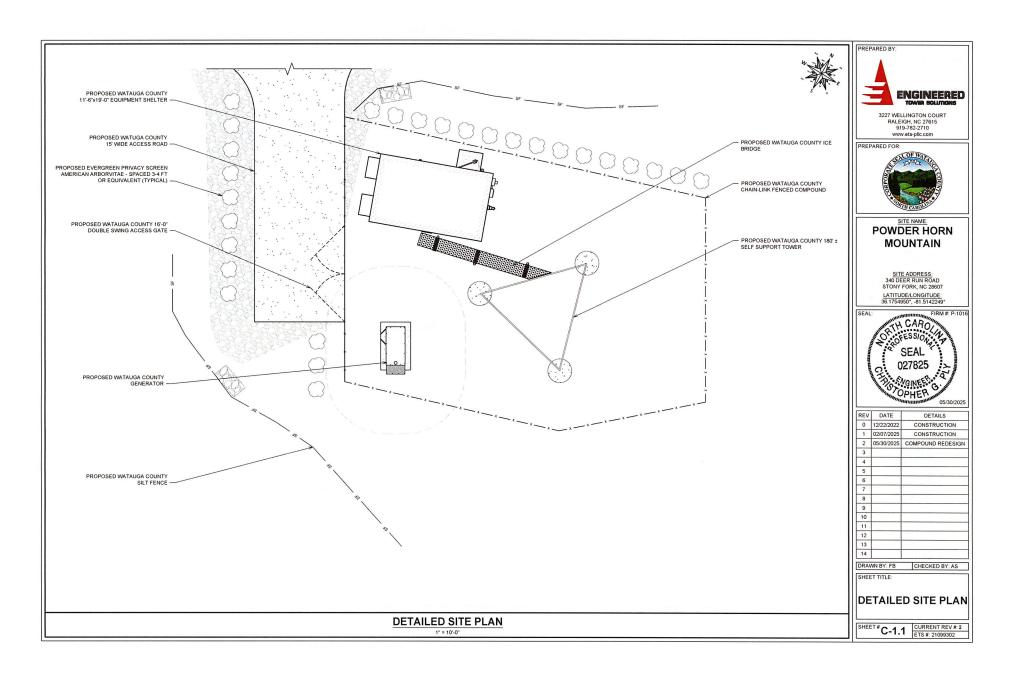
NC APPENDIX B IV

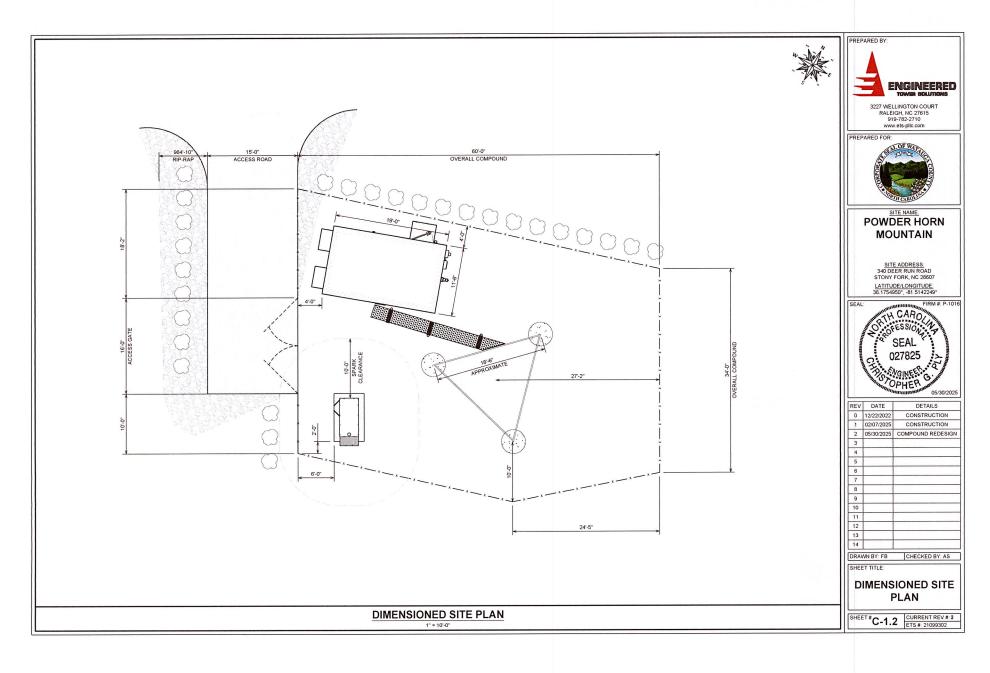
SHEET # GN-8 | CURRENT REV #: 2 | ETS #: 21099302

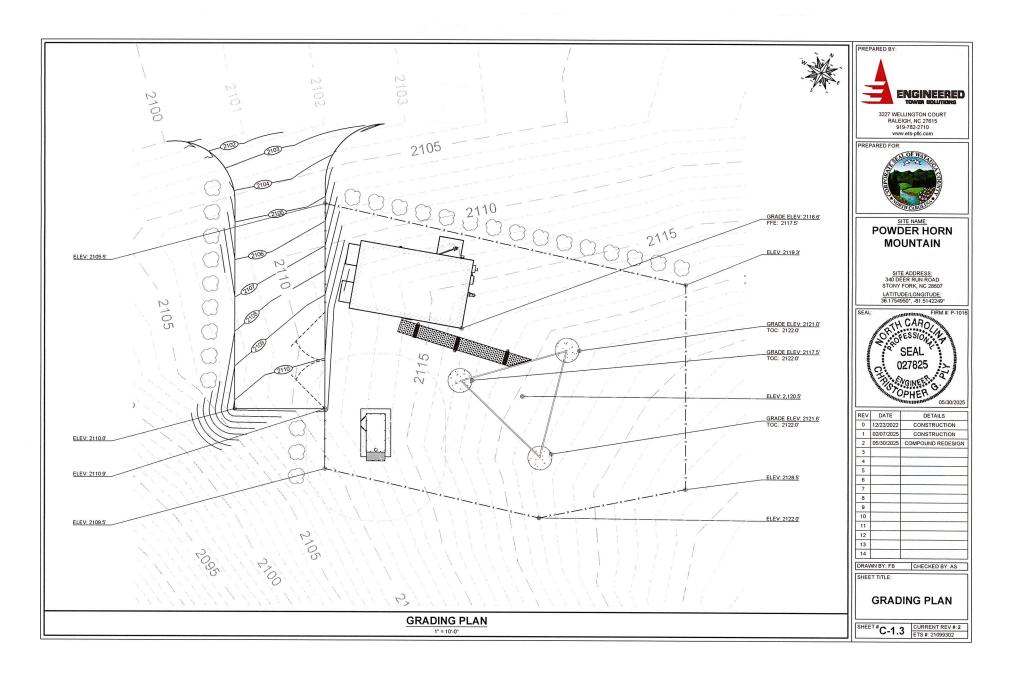
2018 NC Administrative Code and Policies

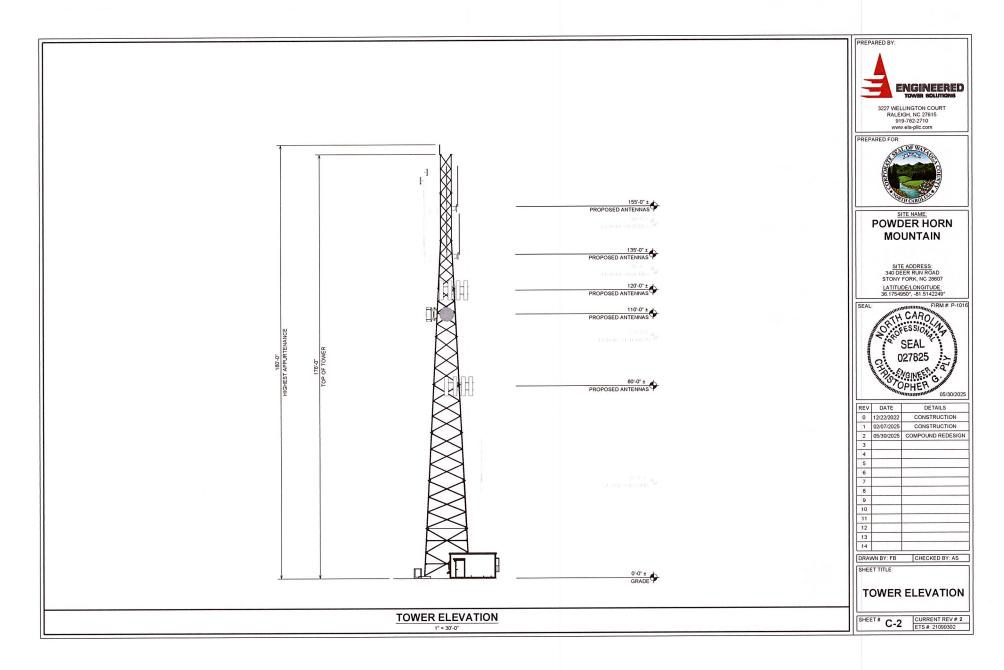
2018 NC Administrative Code and Policies











EXISTING ANTENNA SCHEDULE								
OWNER	QTY.	SIZE (FT)	TYPE	MANUFACTURER - ANTENNA MODEL NUMBER	ANTENNA AZIMUTH	MOUNT ELEVATION	LEG	CABLE (QTY.) TYPE
WATAUGA COUNTY	1		OMNI	RFI - CC807-11	-	155'-0"	А	(1) 7/8" & (1) 1/2"
WATAUGA COUNTY	1		OMNI	RFI - CC807-11	-	155'-0"	В	(1) 7/8"
WATAUGA COUNTY	1		TTA	TTA	-	154'-0"	-	-
WATAUGA COUNTY (FUTURE)	1	-	DIPOLE	DECIBEL - DB220	-	155'-0"	С	(1) 7/8"
WATAUGA COUNTY	1		OMNI	RFI - CC807-11	_	135'-0"	A	(1) 1-5/8"
WATAUGA COUNTY	1		OMNI	RFI - CC807-11	-	135'-0"	В	(1) 1-5/8"
WATAUGA COUNTY (FUTURE)	1	-	DIPOLE	DECIBEL - DB220	-	135'-0"	С	(1) 7/8"
WATAUGA COUNTY	4	-	PANEL	Cellular Carrier	-	120'-0"	A,B,C	
WATAUGA COUNTY	1	-	DISH	COMMSCOPE - HX6-6W-6WH	295.5°	110'-0"	С	(1) EU63
WATAUGA COUNTY (FUTURE)	1	8	DISH	COMMSCOPE - HX6-6VV-WH	J = 01 (#	110'-0"	A	(1) EU63
WATAUGA COUNTY	4		PANEL	Cellular Carrier	-	80'-0"	A,B,C	-
WATAUGA COUNTY (FUTURE)	1	-	DIPOLE	DEGIBEL - DB220		40'-0"	В	(1) 7/8"



3227 WELLINGTON COURT RALEIGH, NC 27615 919-782-2710 www.ets-pllc.com



## POWDER HORN MOUNTAIN

SITE ADDRESS: 340 DEER RUN ROAD STONY FORK, NC 28607 LATITUDE/LONGITUDE: 36 1754950° -81 5142240°



REV	DATE	DETAILS
0	12/22/2022	CONSTRUCTION
1	02/07/2025	CONSTRUCTION
2	05/30/2025	COMPOUND REDESIG
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		

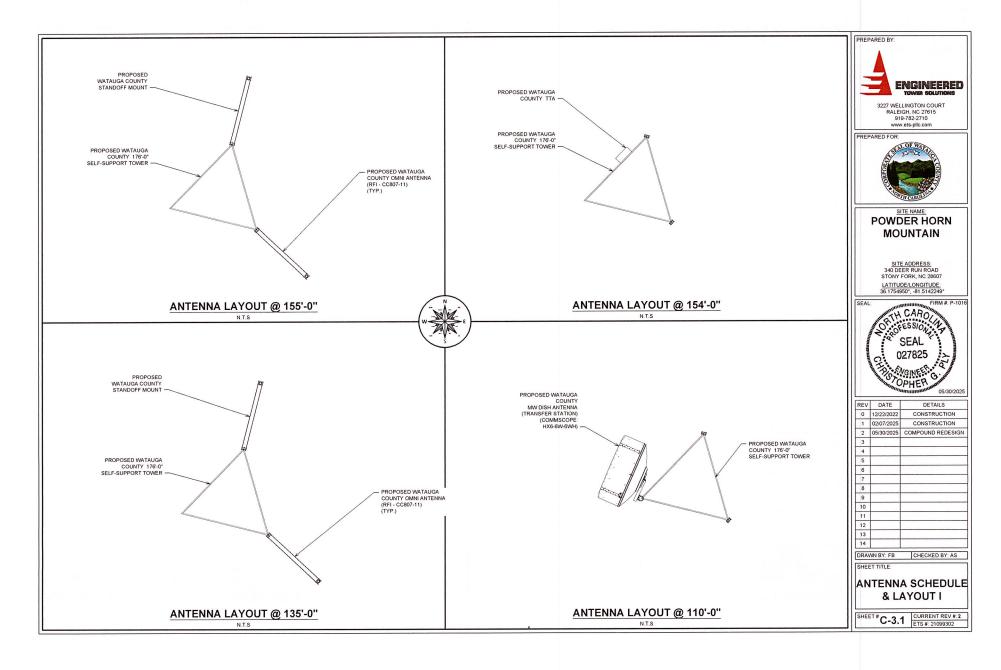
SHEET TITLE:

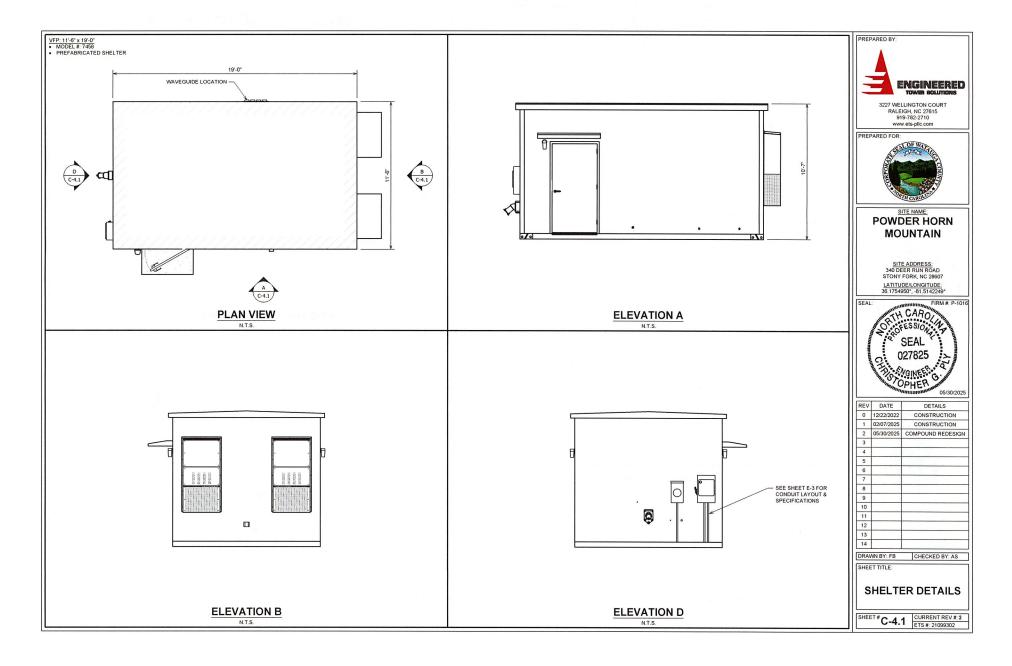
#### ANTENNA SCHEDULE & LAYOUT

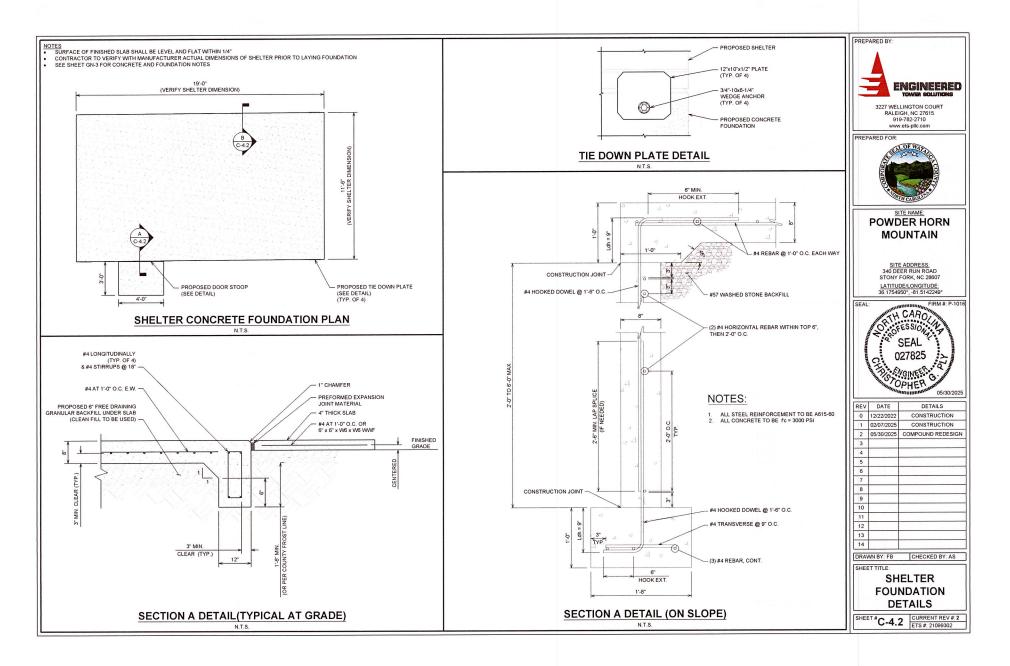
SHEET # C-3 | CURRENT REV #:2 | ETS #: 21099302

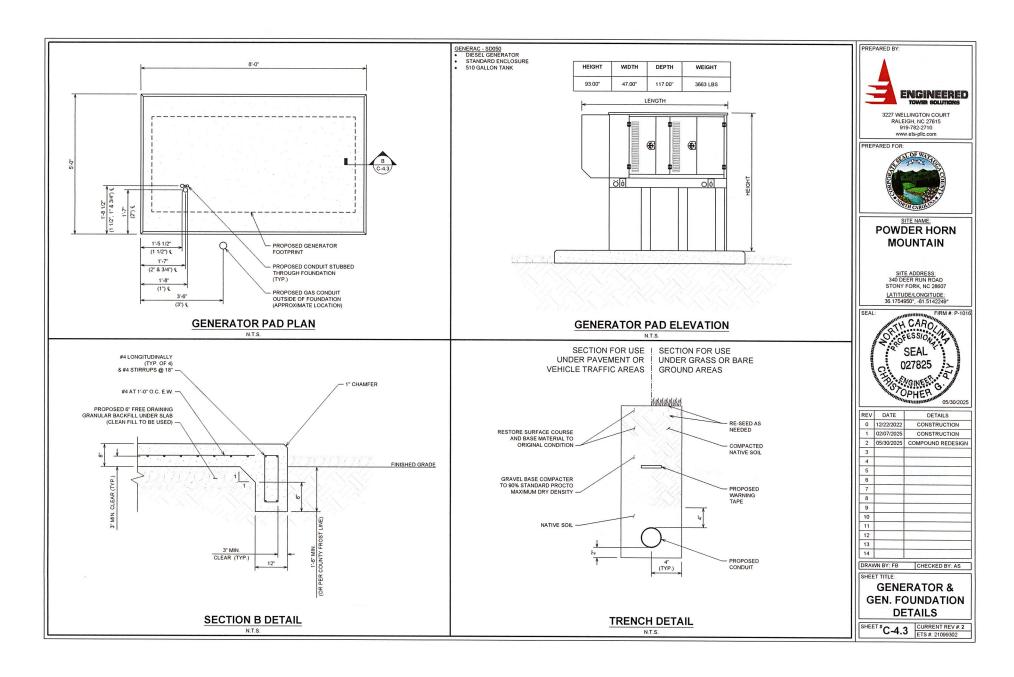
#### **ANTENNA LAYOUT**

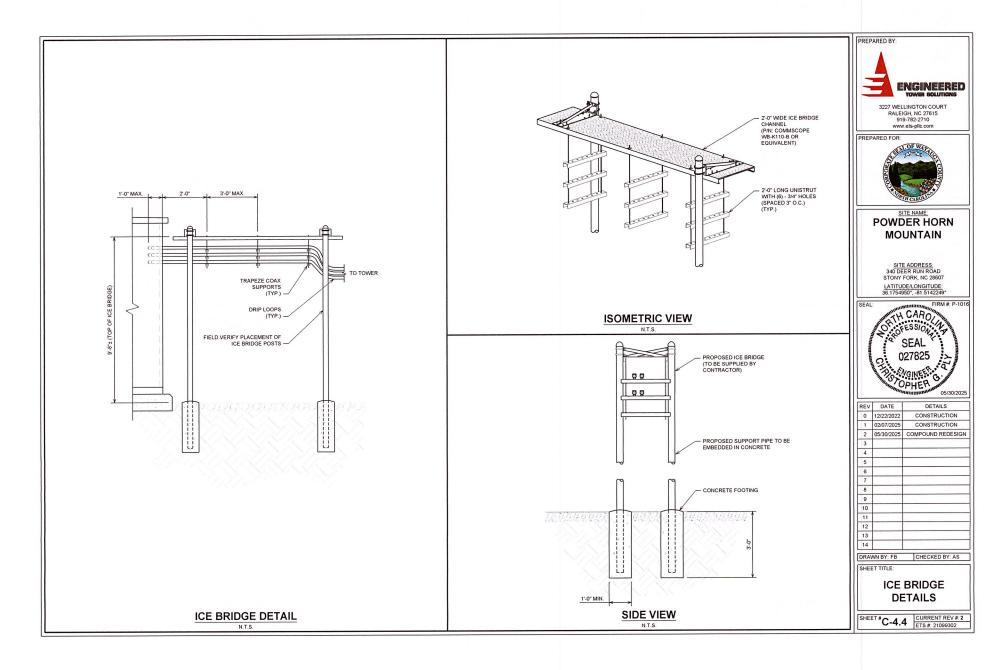
3/32" = 1'-0"

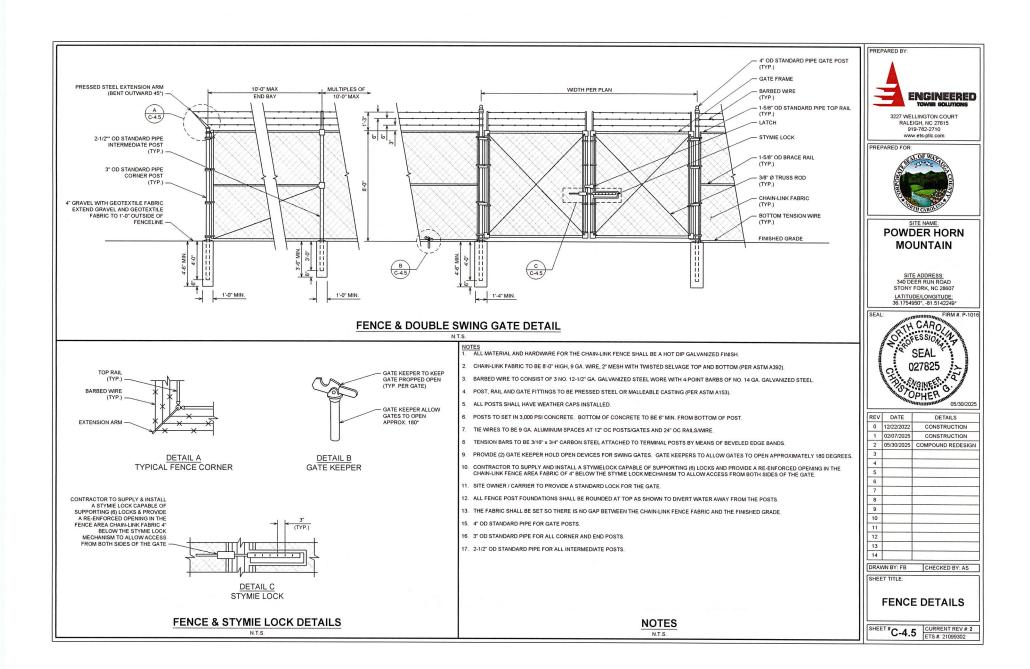












#### PREPARED BY: **ELECTRICAL NOTES ABBREVIATIONS ELECTRICAL NOTES** BID. COORDINATE ROUTE WITH WIRELESS CARRIER AND BUILDING OWNER. SCOPE AMPERE AFG ABOVE FINISHED GRADE A. SHALL INCLUDE ALL LABOR, MATERIALS AND APPLIANCES REQUIRED FOR THE FURNISHING, INSTALLING AND TESTING, COMPLETE AND READY FOR OPERATION OF ALL WORK SHOWN ON EXTERIOR CONDUIT AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE AWG **ENGINEERED** A. ALL EXPOSED CONDUIT SHALL BE NEATLY INSTALLED AND RUN PARALLEL OR THE DRAWING AS SPECIFIED HEREIN: BARE COPPER WIRE PERPENDICULAR TO STRUCTURAL ELEMENTS. SUPPORTS AND MOUNTING HARDWARE SHALL BELOW FINISHED GRADE A a ELECTRIC SERVICE CONDUIT AND RECEWAY CONDUCTORS 3227 WELLINGTON COURT CONDUIT B. SCHEDULE 40 ELECTRICAL CONDUIT WILL BE BURIED TO A DEPTH OF AT LEAST 3 FEET. CIRCUIT DISCONNECT RALEIGH, NC 27615 METALLIC CAUTION TAPE, OR NONMETALLIC CAUTION TAPE WITH 12 AWG TRACING WIRE, WILL BE BURIED TO A DEPTH OF 2 FEET. TRENCHES WILL BE TAMPED AT 12 INCH INTERVALS A.d. MISCELLANEOUS MATERIALS ELECTRIC METALLIC TUBING TELEPHONE CONDUITS EMT www.ets-plic.com TO PRECLUDE FUTURE SINKING TOPSOIL WILL BE PRESERVED AND REPLACED. ALL FLEXIBLE STEEL CONDUIT GENERATOR DISTURBED AREAS SHALL BE RE-SEEDED AND STRAWED PER THE FORT BRAGG SEEDING SPECIFICATION. PULL CORDS WILL BE TIED OFF ON BOTH ENDS OF THE CONDUIT RUNS. PREPARED FOR GLOBAL POSITIONING SYSTEM CODES GPS GRO GALVANIZED RIGID CONDUIT A. THE INSTALLATION SHALL COMPLY WITH ALL LAWS APPLYING TO ELECTRICAL INSTALLATION KILOWATTS IN EFFECT WITH THE REGULATIONS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL SAFETY CODE AND THE ICC, ADMINISTRATIVE RULES WITH THE NATIONAL ELECTRIC CODE, A. ALL DISCONNECT SWITCHES SHALL BE SERVICE ENTRANCE RATED, HEAVY DUTY TYPE NATIONAL ELECTRIC CODE AND ANY LOCAL CODES AND ORDINANCES WITH THE REGULATION OF THE SERVING UTILITY COMPANY. ALL PERMITS REQUIRED SHALL BE OBTAINED AND, AFTER COMPLETION OF WORK B. NEW CIRCUIT BREAKERS SHALL BE RATED TO WITHSTAND THE MAXIMUM AVAILABLE FAULT PANEL CURRENT AS DETERMINED BY THE LOCAL UTILITY. TOWER SUBCONTRACTOR SHALL VERIFY THE OWNER SHALL BE FURNISHED A CERTIFICATE OF FINAL INSPECTION AND APPROVAL. PNI BD PANEL BOARD MAXIMUM AVAILABLE FAULT CURRENT, AND COORDINATE INSTALLATION WITH THE LOCAL POLYVINYL CHLORIDE RIGID GALVANIZED STEEL RGS SHORT CIRCUIT CURRENT RATING SCCE SWITCH UNDERWRITERS LABORATORIES A. UPON COMPLETION OF THE INSTALLATION, OPERATE AND ADJUST ALL EQUIPMENT AND 1 CONDUCTORS SYSTEMS TO MEET SPECIFIED PERFORMANCE REQUIREMENTS. ALL TESTING SHALL BE DONE POWDER HORN A. FURNISH AND INSTALL CONDUCTORS CALLED FOR IN THE DRAWINGS. ALL CONDUCTORS BY QUALIFIED PERSONNEL. VOI TAGE VOLTAGE AMP WATTS SHALL HAVE TYPE THWN (MIN) (75 DEGREE) INSULATION, RATED FOR 600 VOLTS MOUNTAIN B. ALL CONDUCTORS SHALL BE UL LISTED AND SHALL BE PROVIDED AND INSTALLED AS TRANSFORMER XEME A. IN ADDITION TO THE GUARANTEE OF THE EQUIPMENT BY THE MANUFACTURER, EACH PIECE OF EQUIPMENT SPECIFIED HEREIN SHALL ALSO BE GUARANTEED FOR DEFECTS OF MATERIAL TRANSMITTER B.a. MINIMUM WIRE SIZE SHALL BE #12 AWG. OR WORKMANSHIP OCCURRING DURING A PERIOD OF ONE (1) YEAR FROM FINAL SITE ADDRESS: 340 DEER RUN ROAD ACCEPTANCE OF THE WORK BY THE OWNER. WITHOUT EXPENSE TO THE OWNER ALL WARRANTEE CERTIFICATES & GUARANTEES FURNISHED BY THE MANUFACTURERS SHALL BE **LEGEND** B.b. ALL CONDUCTORS SIZE #8 AND LARGER SHALL BE STRANDED. CONDUCTORS SIZED #10 STONY FORK, NC 28607 AND SMALLER MAY BE SOLID OR STRANDED. TURNED OVER TO THE OWNER LATITUDE/LONGITUDE: 36.1754950°. -81.5142249° B.c. CONNECTION FOR #10 AWG AND SMALLER SHALL BE BY TWISTING TIGHT AND INSTALLING EXISTING UTILITY POLE LIGHTNING ARRESTOR INSULATED PRESSURE OR WIRE NUT CONNECTIONS. 8 SEAL A TOWER SUBCONTRACTOR SHALL COORDINATE ALL WORK WITH THE POWER AND TELEPHON B.d. CONNECTION FOR #8 AWG AND LARGER SHALL BE BY USE OF STEEL CRIMP-ON SLEEVES CARO! COMPANIES AND SHALL COMPLY WITH ALL SERVICE REQUIREMENTS OF EACH UTILITY (1) LIGHT COMPANY, IF REQUIRED. G GENERATOR C. ALL CONDUCTORS SHALL BE COLOR CODED IN ACCORDANCE WITH NEC STANDARDS. RECEPTACLE SEAL D. THE RACEWAY SYSTEM SHALL BE COMPLETE BEFORE INSTALLING CONDUCTORS. A. PRIOR TO BEGINNING WORK, THE TOWER SUBCONTRACTOR SHALL VISIT THE SITE OF THE 후 GROUND JOB AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE ELECTRICAL INSTALLATION AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF, FAILURE TO 027825 12 PENETRATIONS BREAKER COMPLY WITH THE INTENT OF THIS PARAGRAPH WILL IN NO WAY RELIEVE THE TOWER E. TOWER SUBCONTRACTOR SHALL COMPLY WITH UL PENETRATION DETAILS FOR SUBCONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING GROUND TO NEUTRAL BOND PENETRATIONS OF ALL RATED WALLS, ROOF, ETC. $\Box$ CUTTING, PATCHING AND EXCAVATION TRANSFORMER 05/30/2025 GROUND ROD A. COORDINATION OF ALL SLEEVES, CHASES, ETC., WILL BE REQUIRED PRIOR TO THE REV DATE DETAILS CONSTRUCTION OF ANY PORTION OF THE WORK, ALL CUTTING AND PATCHING OF WALLS, PARTITIONS, FLOORS, AND CHASES IN CONCRETE, WOOD, STEEL OR MASONRY SHALL BE **GROUNDING NOTES** 0 12/22/2022 CONSTRUCTION DONE AS PROVIDED ON THE DRAWINGS M GROUND ROD WITH INSPECTION 1 02/07/2025 CONSTRUCTION ALL ELECTRICAL NEUTRALS, RACEWAYS AND NON-CURRENT CARRYING PARTS OF METER B. ALL NECESSARY EXCAVATIONS AND BACKFILLING INCIDENTAL TO THE WORK UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWING SHALL BE PROVIDED BY THIS ELECTRICAL EQUIPMENT AND ASSOCIATED ENCLOSURES SHALL BE GROUNDED IN 05/30/2025 COMPOUND REDESIGN ACCORDANCE WITH NEC ARTICLE 250. THIS SHALL INCLUDE NEUTRAL CONDUCTORS, CONDUITS, SUPPORTS, CABINETS, BOXES, GROUND BUSSES, ETC. THE NEUTRAL CONDUCTOR FOR EACH SYSTEM SHALL BE GROUNDED BY ONE POINT ONLY 4 CADWELD BOND C. SEAL ALL PENETRATION THROUGH WALL AND FLOORS WITH APPROVED GROUT. 5 PROVIDE GROUND CONDUCTOR IN ALL RACEWAYS. PANEL 6 PROVIDE BONDING AND GROUND TO MEET NFPA 780 - LIGHTNING PROTECTION AS A MINIMUM 7 MECHANICAL BOND A. ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL BE GALVANIZED ALL GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH MOTOROLA R-56 GUIDELINES, 8 RIGID CONDUIT OR SCH40 PVC. AS INDICATED ON THE DRAWINGS. 9 B. WHERE INSTALLED ON EXTERIORS AND EXPOSED TO DAMAGE, ALL CONDUIT SHALL BE COMPRESSION BOND 10 GALVANIZED RIGID CONDUIT. ALUMINUM CONDUIT SHALL NOT BE ALLOWED. 11 DISCONNECT C. CONCEALED CONDUIT IN WALLS OR INTERIOR SPACES ABOVE GRADE MAY BE EMT. 12 D. UNDERGROUND CONDUITS SHALL BE GALVANIZED RIGID CONDUIT OR SCHEDULE 40 PVC AS INDICATED ON THE DRAWINGS. 14 E. ALL CONDUIT RUNS SHALL USE APPROVED COUPLINGS AND CONNECTORS. PROVIDE INSULATED BUSHING FOR ALL CONDUIT TERMINATIONS. ALL CONDUIT RUNS IN A WET DRAWN BY: FB CHECKED BY: AS FUSED DISCONNECT LOCATION SHALL HAVE WATERPROOF FITTINGS. SHEET TITLE: F. PROVIDE SUPPORTS FOR ALL CONDUITS IN ACCORDANCE WITH NEC REQUIREMENTS. ALL CONDUITS SHALL BE SIZED AS REQUIRED BY NEC. **ELECTRICAL NOTES** G. BURIAL DEPTH OF ALL CONDUITS SHALL BE AS REQUIRED BY CODE FOR EACH SPECIFIC CONDUIT TYPE AND APPLICATION H. CONDUIT ROUTES ARE SCHEMATIC. TOWER SUBCONTRACTOR SHALL FIELD VERIFY BEFORE SHEET# CURRENT REV #: 2 E-1 ETS #: 21099302

PANEL NAME:	PP1		
VOLTAGE:	120	1	240
PHASE:	1		
WRE:	3		
BUS AMPERAGE:	200		
MAIN CB AMPERAGE:	200		
SUPPLY AMPERAGE:	200		
MIN. SHORT CIRCUIT RATING:	10	kAIC	

LOAD SERVED	VA (V	VATTS)	WIRE	BRE	AKER	скт#	KT# PHASE		BRE	AKER		VA (W	/ATTS)			
L1	L1	L2	WIRE	POLE TRIP	PHASE	CKT#	POLE	TRIP	WIRE	L1	L2	LOAD SERVED				
LIGHTHING LOGGETOR	60						A					3727	7.024			
LIGHTNING ARRESTOR		60	4	2	60A	1	В	2	2	30A	10		3727	ACH2		
ACH1	3727		10	2	30A	5	A	6	1	20A	12	540		INTERIOR RECEPTACLE		
ACHI		3727	] "	2	JUA	5	В	8	1	20A	12		120	SMOKE DETECTOR		
INTERIOR RECEPTACLES	540		12	1	20A	9	A					4950				
INTERIOR LIGHTS		768	12	1	20A	11	В	10	2	125A	1		4950	UPS TECH PANEL PP2		
EXTERIOR RECEPTACLE	180		12	1	20A	13	A					180				
EXTERIOR LIGHTS		200	12	1	20A	15	В	14	2	20A	12		180	TWIST LOCK RCPT #1		
WATER HEATER JACKET	120		12	1	20A	17	А							180		
GEN. BATT. CHGR.		120	12	1	20A	19	В	18	2	20A	12		180	TWIST LOCK RCPT #2		
SPARE	-			1	20A	21	А	22	1	20A		-		SPARE		
SPARE		-	-	1	20A	23	В	24	1	20A	-			SPARE		
SPARE	-		-	1	20A	25	A	26	1	20A		-		SPARE		
SPARE		-	-	1	20A	27	В	28	1	20A				SPARE		
SPARE	_		-	1	20A	29	A	30	1	20A		-		SPARE		
SPARE		-	-	1	20A	31	В	32	1	20A	-			SPARE		
SPARE	-			1	20A	33	A	34	1	20A	-	-		SPARE		
SPARE		-	-	1	20A	35	В	36	1	20A			-	SPARE		
BATTERY CHARGER	2500		10	2	30A	37	A	38	1	20A	-	-		SPARE		
DATTERT CHARGER		2500	10	2	JUA	31	В	40	1	20A	-			SPARE		
VOLT AMPS	8,727	7,255			CALCULAT	ION			L1		L2	9,577	9,157	VOLT AMPS		
				тот	TAL VOLT AN	MPERES .		17	7,704	16	5,412			1		
				то	TAL AMPS P	ER LEG		1	148	1	137	1				
					AMPS x 12	5%				185		1				





### POWDER HORN MOUNTAIN

SITE ADDRESS: 340 DEER RUN ROAD STONY FORK, NC 28607 LATITUDE/LONGITUDE: 36.1754950°, -81.5142249°

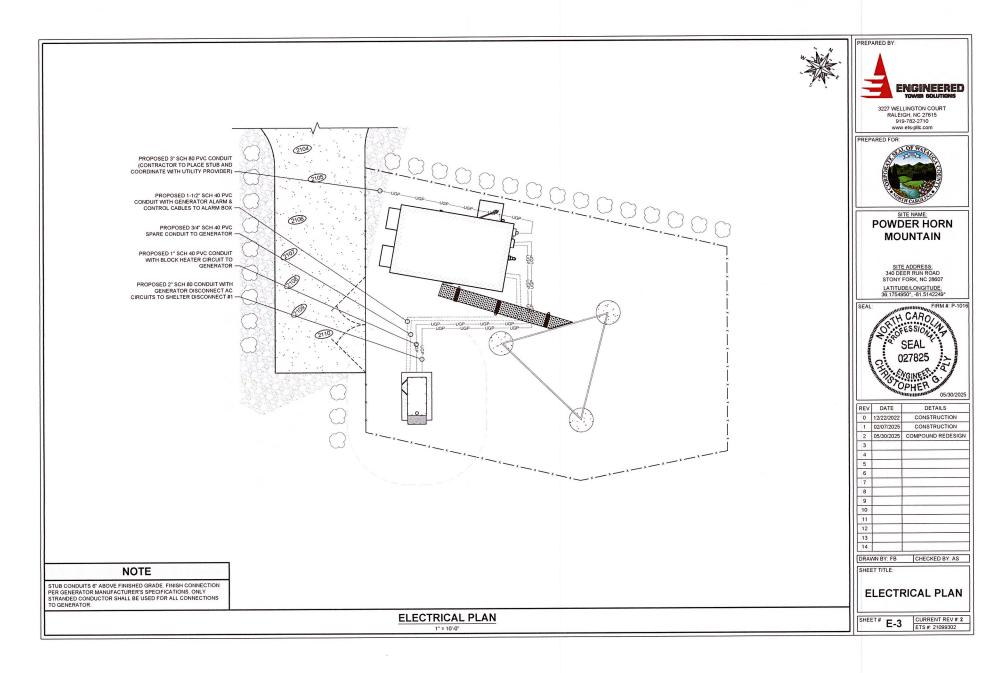


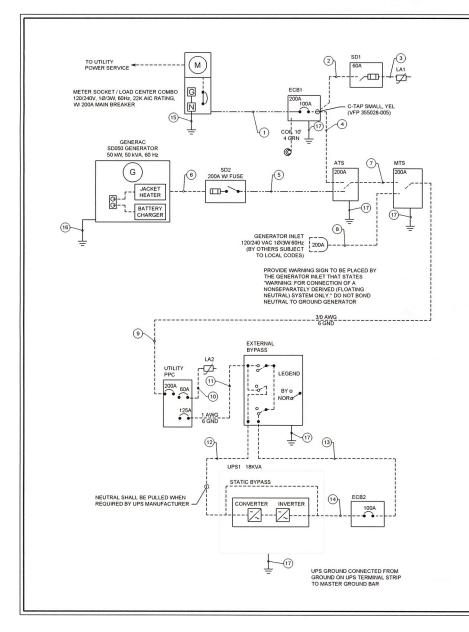
REV	DATE	DETAILS
0	12/22/2022	CONSTRUCTION
1	02/07/2025	CONSTRUCTION
2	05/30/2025	COMPOUND REDESIG
3		Tris.
4	- 2	
5		(8)
6		
7		
8		
9		
10		
11		
12		
13		
14		

PANEL SCHEDULE

SHEET# **E-2** CURRENT REV #: 2 ETS #: 21099302

# PANEL SCHEDULE N.T.S.





	FROM	то	CONDUCTOR			
1	METER / LOAD CENTER	ENCLOSURE W/ CIRCUIT BREAKER (ECB1)	(3) #3/0 + (1) #6 G			
2	ENCLOSURE W/ CIRCUIT BREAKER (ECB1)	SERVICE DISCONNECT (SD1)	(3) #4 AWG + (1) #6 G			
3	SERVICE DISCONNECT (SD1)	LIGHTNING ARRESTOR (LA1)	(3) #4 AWG + (1) #6 G			
4	ENCLOSURE W/ CIRCUIT BREAKER (ECB1)	AUTOMATIC TRANSFER SWITCH	(3) #3/0 + (1) #6 G			
5	AUTOMATIC TRANSFER SWITCH	SERVICE DISCONNECT (SD2)	(3) #3/0 + (1) #6 G			
6	SERVICE DISCONNECT (SD2)	GENERATOR	(3) 300 kcmil + (1) #4 G			
7	AUTOMATIC TRANSFER SWITCH	MANUAL TRANSFER SWITCH	(3) #3/0 + (1) #6 G			
8	MANUAL TRANSFER SWITCH	GENERATOR RECEPTACLE	(3) #3/0 + (1) #2/0 G			
9	MANUAL TRANSFER SWITCH	LOAD CENTER "UTILITY PP1"	(3) #3/0 + (1) #6 G			
10	LOAD CENTER "UTILITY PP1"	LIGHTNING ARRESTOR (LA2)	(3) #4 AWG + (1) #6 G			
11	LOAD CENTER "UTILITY PP1"	EXTERNAL BYPASS	(3) #1 AWG + (1) #6 G			
12	EXTERNAL BYPASS	UNINTERRUPTED POWER SYSTEM (UPS1)	(3) #1 AWG + (1) #6 G			
13	EXTERNAL BYPASS	ENCLOSURE W/ CIRCUIT BREAKER (ECB2)	(3) #1 AWG + (1) #6 G			
14	ENCLOSURE W/ CIRCUIT BREAKER (ECB2)	UNINTERRUPTED POWER SYSTEM (UPS1)	(3) #1 AWG + (1) #6 G			
15	METER / LOAD CENTER (NEUTRAL & GROUND BOND)	SERVICE ENTRANCE GROUND ROD (BONDED TO SHELTER GROUND RING)	#2 AWG BTSC			
16	GENERATOR	GROUND RING	#2 AWG BTSC			
17	INTERNAL EQUIPMENT	ISOLATED PHASE GROUND RING	#2 AWG BTSC			



www.ets-pllc.com



#### **POWDER HORN** MOUNTAIN

SITE ADDRESS: 340 DEER RUN ROAD STONY FORK, NC 28607



,	OPHER 05/30/2025								
REV	DATE	DETAILS							
0	12/22/2022	CONSTRUCTION							
1	02/07/2025	CONSTRUCTION							
2	05/30/2025	COMPOUND REDESIGN							
3									
4									
5	FAR								
6	6								
7	7								
8		The state of the s							

DRAWN BY: FB CHECKED BY: AS

SHEET TITLE:

10

11

12 13

**ELECTRICAL ONE-LINE DIAGRAM** 

SHEET# E-4 CURRENT REV #: 2 ETS #: 21099302

#### NOTES

- ONE-LINE DIAGRAM & WIRE SIZING PER VFP, INC. SHELTER DRAWING NO. 203953.
  ALL EQUIPMENT INSIDE SHELTER, INCLUDING ALL GROUNDING IS PRE-INSTALLED AND WIRED BY VFP, INC. CONTACT VFP, INC. ROMEREOF PRECORD IF THERE ARE ANY DISCREPANCIES.
- VPT, INC. ENGINEER OF RECORD IT I THERE ARE ANY INCLOSED AND SEED ON THE SPECIFIC OVERCURRENT PROTECTIVE DEVICE TYPE AND SETTING PROTECTING THE TRANSFER EQUIPMENT (CAN VARY BETWEEN THE UTILITY AND SETTING PROTECTING THE TRANSFER EQUIPMENT (CAN VARY BETWEEN THE UTILITY AND SETTING PROTECTING THE TRANSFER COLUMENT PER NEC ARTICLE 701.5(D)
- ARTICLE 701 3(J).
  SERVICE EQUIPMENT MUST BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT PER NEC ARTICLE 110.24(A). THE FIELD MARKING MUST INCLUDE THE DATE OF WHEN THE FAULT CURRENT CALCULATION WAS PERFORMED AND MUST BE ABLE TO WITHSTAND THE SURROUNDING ENVIRONMENT.
- ENSURE ALL REQUIRED SIGNS PER NEC ARTICLE 701.7 ARE INSTALLED.

  LEGALLY REQUIRED STANDBY SYSTEM OVERCURRENT DEVICES MUST BE SELECTIVELY COORDINATED WITH ALL
- SUPPLY-SIDE OVERCURRENT PROTECTIVE DEVICES PER NEC APTICLE ARTICLE 701 27 SERVICE ENTRANCE RATED METER / LOAD CENTER MUST HAVE GROUND BOND BETWEEN NEUTRAL AND GROUND, AND BE CODE COMPLIANT CONTAINING UNDERWRITERS LABORATORIES UL-891 AND UL-1008 LABELS, AND MEET NEC AND LOCAL CODES.
- ECOLA COOLS.

  GENERATOR RECEPTACLE: PROVIDE WARNING SIGN TO BE PLACED BY THE GENERATOR INLET THAT STATES.

  "WARNING: FOR CONNECTION OF A NONSEPARATELY DERIVED (FLOATING NEUTRAL) SYSTEM ONLY." DO NOT BOND NEUTRAL TO GROUND IN GENERATOR.
- RECTIFICATION OF THE REPORT OF THE REPORT OF THE RECTIFICATION OF THE RE
- 10 Contract VPF, INC. Ensineers of RECORD.

  1. ALL EXTENDER ENCLOSIVES TO BE NEMA STREED.

  1. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE.

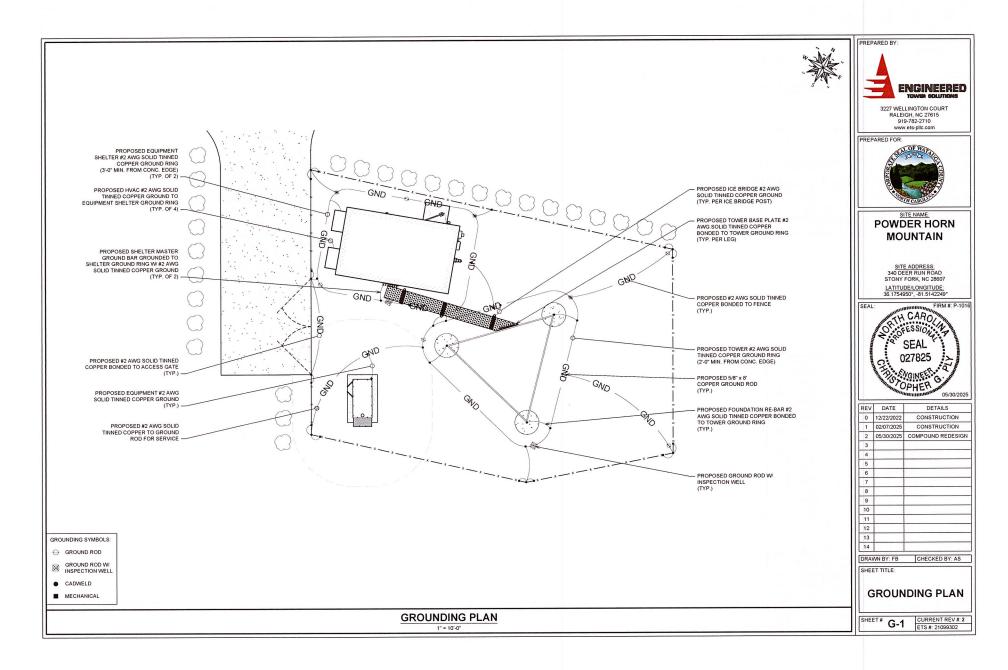
  12. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE.

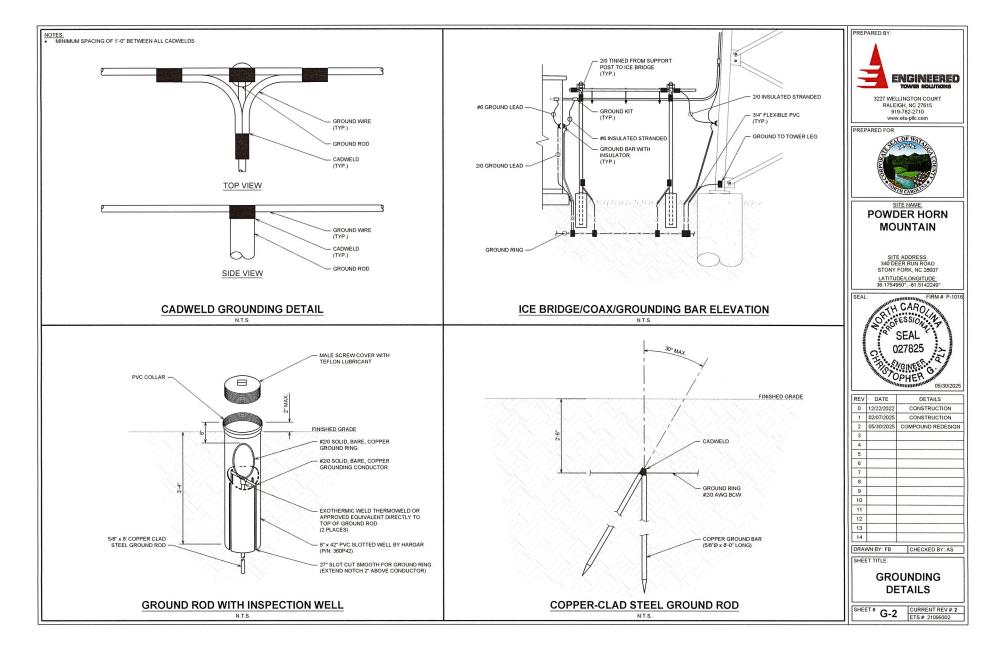
  13. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE LABELEDILISTED BY UL OR A NORTH.
- 10. ACE ELECTROM METERISTS, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE CABELLE CAROLINA APPROVED THIRD PARTY TESTING AGENCY.

  14. SUBCONTRACTOR TO LEAVE EXTRA PULL TAPE FOR FUTURE CABLE INSTALL BY OTHERS.

  15. SEE SHEETS E-4.1 & E-4.2 FOR PANEL SCHEDULES.

  16. SEE SHEET E-2 FOR ROUTES.





### GEOTECHNICAL REPORT OF SUBSURFACE INVESTIGATION

September 4, 2025

# PROPOSED SELF SUPPORT TOWER POWDER HORN MOUNTAIN

340 Deer Run Road Stony Fork, NC 28607

36.175495, -81.5142249

Prepared for:



Prepared by:



Tyler Schueller,

Geotechnical Engineer I

SEAL O51545

Jorge Varela, P.E. Registered NC 051545

Job Number: 25134760



# **Project Summary**

Item	Description
Project Description	A geotechnical exploration and report have been prepared for this proposed 180-foot self-supported tower. Included in this report are the results of the field exploration and the recommendations for the design of the foundation system.
Site Coordinates	Latitude: 36.175495 Longitude: -81.5142249
Site Condition	The proposed tower will be installed at 340 Deer Run Road in Stony Fork, North Carolina
Frost Depth	Based on the TIA Standard (TIA-222-H), dated October 2017, the recommended design frost penetration depth to be used for Hidalgo County, NC is 20 inches (1.7 ft).
Groundwater	Groundwater was not encountered at the time of drilling. Please note that subsurface water levels will fluctuate with seasonal and cyclical temperatures and precipitation and can be higher or lower at other times.
Proposed Foundation	We assume the proposed foundation will be supported with either pad and pier or drilled shaft (caisson).

Job Number: 25134760



# Field Exploration

Item	Description
Date	August 27 <sup>th</sup> & 28 <sup>th</sup> , 2025
Number of Borings	3
Location	B1: Latitude: 36.175522 Longitude: -81.514225 B2: Latitude: 36.175483 Longitude: -81.514194 B3: Latitude: 36.175483 Longitude: -81.514256
<b>Equipment Used</b>	CME 45C
<b>Advancement Method</b>	Hollow Stem Auger (HSA), Mud Rotary and Rock Coring
Sampling Method	ASTM D-1586 with 1.5 I.D. Split Spoon Sampler ASTM D2113 Standard Practice for Rock Core Drilling and Sampling of Rock for Site Exploration

# **Laboratory Classification and Testing**

Standard	Description			
<b>ASTM D2488</b>	Standard Practice for Description and Identification of Soils			

Job Number: 25134760



#### **Subsurface Profile**

Based on the results of our borings, the soils beneath the surface can be summarized in the table below:

Material Encountered	Approximate Depth to Bottom of Stratum	Description	Consistency / Density
SAND	22	Brown and gray, moist clayey and silty sand	Loose to Very Dense
PWR	33.6	Partially Weathered Rock sampled as clayey sand	
BEDROCK	73.6	Gray and white Gneiss	

Detailed descriptions of conditions encountered at each exploration point are indicated on the individual logs in the Appendix B. Stratification boundaries on the boring logs represent the approximate location of changes in soil types; in-situ, the transition between materials may be gradual.

Groundwater was not encountered at the time of drilling. Groundwater levels will fluctuate with seasonal and climatic changes and may be different at other times.

# Earthwork Recommendations – Equipment Mat

Earthwork is anticipated to include excavations and fill placement. The following sections provide recommendations for use in the preparation of the equipment mat foundation area and access drive.

#### **Site Preparation**

The subgrade should be evaluated under the direction of the Geotechnical Engineer. Areas where soft material are present or excessively wet or dry material should either be removed, or moisture conditioned and recompacted.

Job Number: 25134760



### Fill Material Types

Soil Type	USCS Classification	Acceptable Parameters (for Structural Fill)
Imported Low- to Moderate- Plasticity Soil <sup>2</sup>	CL, ML, SC or SM	All locations and elevations
Sand / Gravel with greater than 12% fines	GW/GP, SW/SP	Crushed stone base course may be used for the access roadway or beneath shallow foundations as a replacement material for overexcavated soils.
Near-Surface On-site soils <sup>2</sup>	SC, SM	On-site soils generally appear suitable for use as fill when they contain at least 12% fines (clay and/or silt) and are compacted at an appropriate moisture content.

- 1. Controlled, compacted fill should consist of approved materials that are free of organic matter and debris. A sample of each material type should be submitted to the geotechnical engineer for evaluation.
- 2. Low- to moderate-plasticity cohesive soil or granular soil having at least 12% fines

### **Fill Compaction Requirements**

Item	Structural Fill	General Fill
Maximum Lift Thickness	8 inches or less in loose thickness when heavy, self- propelled compaction equipment is used	Same as Structural fill
Minimum Compaction Requirements <sup>1, 2</sup>	98% of max. below foundations and within 1 foot of finished pavement subgrade 95% of max. above foundations, below floor slabs, and more than 1 foot below finished pavement subgrade	92% of max.
Water Content Range 1	Low plasticity cohesive: -2% to +3% of optimum High plasticity cohesive: 0 to +4% of optimum Granular: -3% to +3% of optimum	As required to achieve min. compaction requirements

- 1. Maximum density and optimum water content as determined by the standard Proctor test (ASTM D 698).
- 2. High plasticity cohesive fill should not be compacted to more than 100% of standard Proctor maximum dry density.

Job Number: 25134760



#### **Excavations**

Groundwater was not encountered at the time of drilling. Although not expected, if encountered in deep trench excavations during construction, groundwater or perched groundwater will require dewatering until backfilling operations are complete.

All excavations that may be required should, at a minimum, comply with applicable local, state and federal safety regulations, including the current OSHA Excavation and Trench Safety Standards to provide stability and safe working conditions.

#### **Slopes**

For permanent slopes in unreinforced compacted fill areas, we recommended maximum configurations of 3:1 (Horizontal: Vertical) for the cohesive soils (clay) found at the site.

If steeper slopes are required for site development, stability analyses should be completed to design the grading plan. The face of all slopes should be compacted to the minimum specification for fill embankments. Fill slopes should be overbuilt and trimmed to compacted material.

#### **Earthwork Construction Considerations**

The near-surface, on-site soils will lose strength when exposed to moisture. To the extent practical, earthwork should be performed during drier periods of weather. Increased remedial measures due to wet and soft or otherwise unsuitable conditions should be expected if earthwork is performed during colder and wetter periods of weather.

A qualified geotechnical engineer should be retained during the earthwork phase of the project to observe earthwork and to perform necessary tests and observations during subgrade preparation; to monitor proof-rolling, placement and compaction of controlled compacted fills, and backfilling of excavations to the completed subgrade.

#### **Foundations Recommendations**

The following recommendations are made based on our review of the test boring data and our past experience with similar projects and subsurface conditions. Ultimate soil strength parameters are presented on table below.

Job Number: 25134760



# **Ultimate Strength Parameters**

Boring #	Depth (ft)	Unified Soil Classification	Total Unit Weight (pcf)	Friction Angle (degrees)	Cohesion (psf)
	0.0 - 3.0	SM	125	32	
	3.0 - 5.0	SM	125	30	
B-1	5.0 - 8.0	PWR	130	38	
	8.0 - 12.0	PWR	130	38	
	12.0 - 17.0	PWR	130	38	
	17.0 - 20.0	PWR	130	38	
	0.0 - 3.0	SM	120	30	
	3.0 - 5.0	SM	120	30	
	5.0 - 8.0	SC	125	32	
B-2	8.0 - 12.0	SC	125	32	
	12.0 - 17.0	PWR	130	38	
	17.0 - 22.0	PWR	130	38	
	22.0 - 24.0	PWR	130	38	
	0.0 - 3.0	SC	105	29	
	3.0 - 5.0	SC	120	30	
	5.0 - 8.0	SC	125	32	
	8.0 - 12.0	SC	125	30	
	12.0 - 17.0	SC	125	32	
B-3	17.0 - 22.0	SC	125	32	
	22.0 - 27.0	PWR	130	38	
	27.0 – 32.0	PWR	130	38	
	32.0 – 33.5	PWR	130	38	
	33.6 – 43.6	BEDROCK	145	45	
	43.6 – 73.6	BEDROCK	145		10,000

<sup>1.</sup> Groundwater was not encountered at the time of drilling.

Job Number: 25134760



Based on the subsurface conditions and typical design foundation loads for similar self-support towers, we recommend that either a caisson (drilled shaft) or a pad/pier be used to support the new tower.

## Modulus of Subgrade Reaction

A vertical and horizontal modulus of subgrade reaction may be derived using the following equations and soils parameters expressed in the above table:

$$k_{s-v} = 12 \cdot SF \cdot q_a$$
$$k_{s-h} = k_{s-v} \cdot B$$

Where:

qa = Allowable Bearing Capacity (ksf)

SF = Safety Factor

B = Base width (ft), use 1 if B < 1ft

 $k_{s-v}$  = Vertical Modulus of Subgrade Reaction (kcf)

 $k_{s-h}$  = Horizontal Modulus of Subgrade Reaction (ksf)

## Caisson (Drilled Shaft)

Should caissons (drilled shafts) be used, the caissons (drilled shafts) will achieve compressive (downward) and tensile (uplift) resistance through skin friction along the sides of the shafts. In addition to skin friction, bearing resistance at the caisson's tip will contribute to compressive capacity. We recommend the values given the table below be used for this project. Please note the tip bearing capacity and skin frictions are net ultimate and ultimate values respectively. Appropriate factors of safety or resistance factors should be used. Lateral loads can be resisted by the lateral stiffness of the soil. Parameters for analysis of the laterally loaded caisson are also given the table below.

Job Number: 25134760



# **Caisson (Drilled Shaft) Parameters**

Boring #	Depth	Net Ultimate Tip Bearing	Bearing (ksf)		Lateral Modulus	<b>E</b> 50
0	(ft)	Capacity (ksf)	Compressive	Uplift	(pci)	(in/in)
	0.0 - 3.0					
	3.0 - 5.0		0.2	0.2	60	
B-1	5.0 - 8.0		0.4	0.4	125	
D-1	8.0 - 12.0		0.5	0.5	125	
	12.0 - 17.0	40	0.9	0.9	125	
	17.0 - 20.0	40	1.1	1.1	125	
	0.0 - 3.0					
	3.0 - 5.0		0.2	0.2	60	
	5.0 - 8.0		0.3	0.3	125	
B-2	8.0 - 12.0		0.5	0.5	125	
	12.0 - 17.0	40	0.9	0.9	125	
	17.0 - 22.0	40	1.2	1.2	125	
	22.0 - 24.0	40	1.3	1.3	125	

<sup>1.</sup> We recommend the skin friction be ignored for the top 3 ft of the caisson

Job Number: 25134760



### Caisson (Drilled Shaft) Parameters

Boring #	Depth	Net Ultimate Tip Bearing	Ultimate Skir (ksf		Lateral Modulus	<b>E</b> 50
	(ft)	Capacity (ksf)	Compressive	Uplift	(pci)	(in/in)
	0.0 - 3.0					
	3.0 - 5.0		0.2	0.2	60	
	5.0 - 8.0		0.3	0.3	125	
	8.0 - 12.0		0.5	0.5	60	
	12.0 - 17.0	17	0.7	0.7	125	
B-3	17.0 - 22.0	22	0.9	0.9	125	
	22.0 - 27.0	40	1.4	1.4	125	
	27.0 - 32.0	40	1.7	1.7	125	
	32.0 – 33.5	40	1.8	1.8	125	
	33.6 – 43.6	40	2.6	2.6	125	
	43.6 – 73.6	40	5.0	5.0	2,000	0.001

<sup>1.</sup> We recommend the skin friction be ignored for the top 3 ft of the caisson

Based on the subsurface soil conditions, excavations for the caissons (drilled shafts) should be possible using a large, truck-mounted, hydraulic-advanced drill rig. All debris, loose or disturbed soil should be removed from the excavation prior to placing reinforced steel and/or concrete. Reinforcing steel and/or concrete should be placed immediately upon completion of the excavation.

The excavations may be susceptible to caving. Drilling fluid or casing could be used to assist in keeping the drilled hole open. If casing is used, we recommend it be removed from the excavation as concrete is being placed. Continuous vibration or other approved methods should be used during casing withdrawal to reduce the potential for void-space formation within the concrete. If water is present during concrete placement and/or drilling fluids are used to maintain hole stability, concrete should be pumped or otherwise discharged to the bottom of the hole via a hose or tremie pipe. The end of the hose or tremie pipe must remain below the top surface of any water, drilling fluid and the in-place concrete at all times. Additionally, concrete should be consolidated using

Job Number: 25134760



vibration methods over the entire length and width of the caissons and the consolidation should be performed only after these fluids are removed and to the extent possible.

## Pad & Pier / Single Mat Foundation

If the site has been prepared in accordance with the requirements noted in *Earthwork Recommendations – Equipment Mat*, the tower's foundation capacity can be determined using the soil's bearing capacity, passive pressure resistance, and a sliding friction factor.

## **Net Ultimate Bearing Capacity and Sliding Friction Factor**

Boring #	Depth <sup>2</sup> (ft)	Net Ultimate Bearing Capacity <sup>1</sup> (psf)	Sliding Friction Factor <sup>1</sup>	
	0.0 - 3.0			
B-1	3.0 - 8.0	8,500	0.35	
	8.0 - 12.0	11,000	0.55	
	0.0 - 3.0			
B-2	3.0 - 8.0	8,500	0.35	
	8.0 - 12.0	10,500	0.55	
	0.0 - 3.0			
B-3	3.0 - 8.0	8,500	0.35	
	8.0 - 12.0	8,000	0.55	

<sup>1.</sup> This value is a net ultimate value and an appropriate factor of safety or resistance factor should be used

Job Number: 25134760



## **Ultimate Passive Pressure and Friction Factor**

Boring #	Depth (ft)	Ultimate Passive Pressure <sup>1</sup> (psf) <sup>1</sup>
	0.0 - 2.0	0 - 600
	2.0 - 4.0	600 – 1,200
B-1	4.0 - 8.0	1,200 – 2,800
	8.0 - 12.0	2,800 - 4,000
	12.0 - 20.0	4,000 – 7,200
	0.0 - 2.0	0 - 600
	2.0 - 4.0	600 - 1,200
B-2	4.0 - 8.0	1,200 – 2,400
	8.0 - 12.0	2,400 – 3,600
	12.0 - 20.0	3,600 – 6,800
	0.0 - 2.0	0 - 600
	2.0 - 4.0	600 – 1,200
B-3	4.0 - 8.0	1,200 – 2,400
	8.0 - 12.0	2,400 – 3,600
	12.0 - 20.0	3,600 – 6,000

<sup>1.</sup> Ultimate passive pressure can be interpolated for foundation depths with the depth ranges given

Job Number: 25134760



### Seismic Parameters

The seismic design requirements for buildings and other structures are based on Seismic Design Category. Site Classification is required to determine the Seismic Design Category for a structure. The Site Classification is based on the upper 100 feet of the site profile defined by a weighted average value of either shear wave velocity, standard penetration resistance, or undrained shear strength in accordance with Section 20.4 of ASCE 7 and the International Building Code (IBC)

#### **Seismic Site Classification**

Item	Seismic Parameter
2018 International Building Code Seismic Site Classification	$\mathrm{D}^1$
Design Spectral Response Acceleration Parameters	$\begin{split} S_{ds} &= 0.23g \\ S_{d1} &= 0.12g \end{split}$

<sup>1.</sup> The IBC seismic site classification is based on the subsurface profile depth of 100 feet. The scope of work did not authorize exploration to a depth of 100 feet. A seismic Site Soil Classification of D should be used if insufficient details are known about the 100-foot soil profile.

#### LIMITATIONS OF REPORT

This report has been prepared in accordance with generally accepted geotechnical engineering practices for the specific application of this project. The conclusions in this report are based on the applicable standards of our practice in this geographic area at the time this report was prepared. No other warranty, expressed or implied, is made.

The analyses and conclusions submitted herein are based, in part, upon the data obtained from the subsurface exploration performed for this analysis. The soil and ground water conditions can vary across the site. Opinions and conclusions are subject to change if new or additional information is submitted for review.

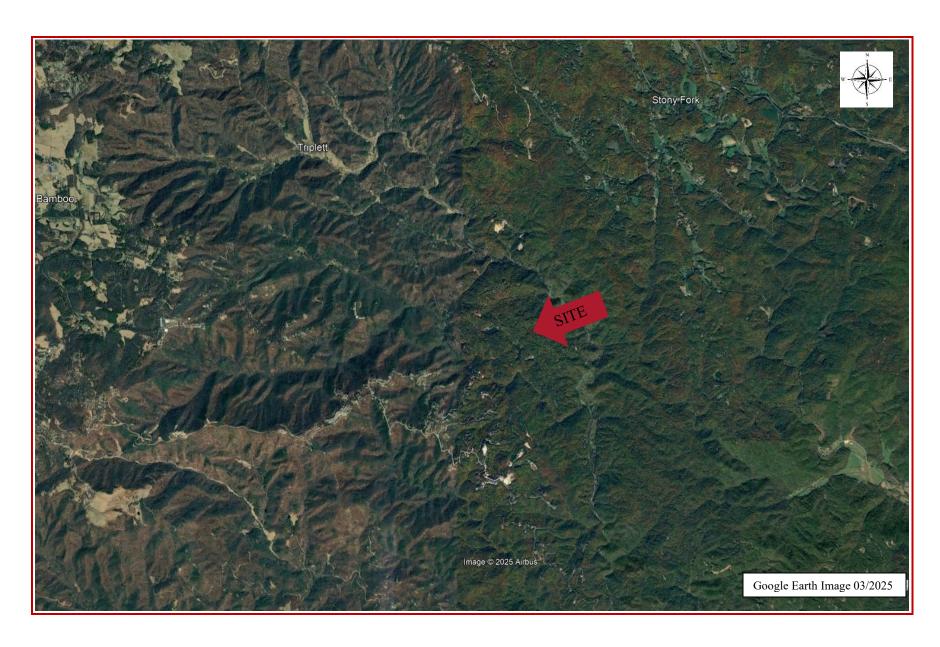
# APPENDIX A LOCATION INFORMATION

### SITE LOCATION PLAN

### **POWDER HORN MOUNTAIN**

Job Number: 25134760





### **BORING LOCATION PLAN**

### **POWDER HORN MOUNTAIN**

Job Number: 25134760

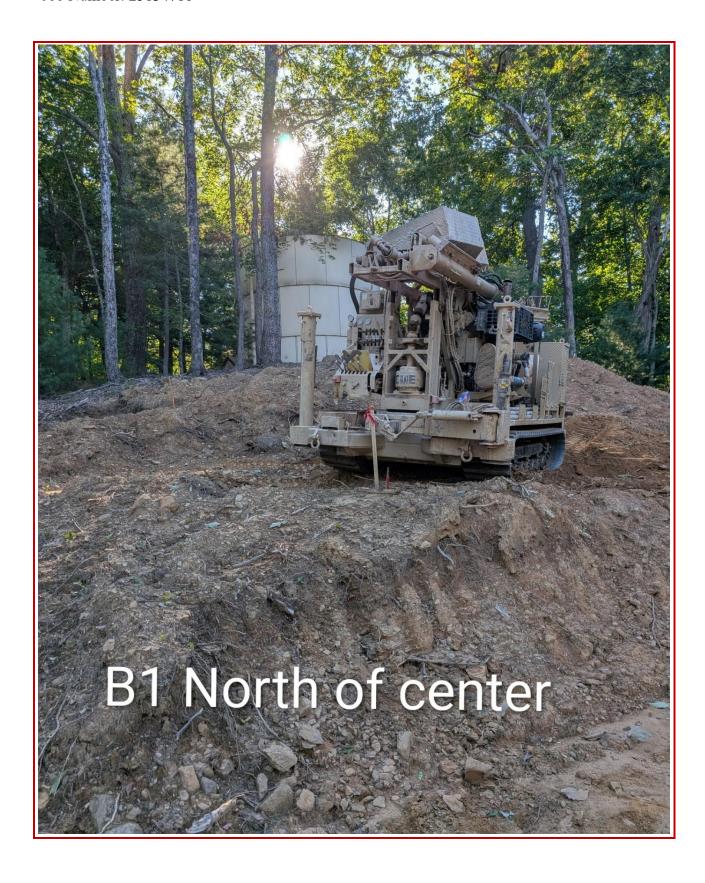




### **POWDER HORN MOUNTAIN**

Job Number: 25134760





# APPENDIX B SOIL TEST BORING

			BORIN		BER B-1 PAGE 1 OF 1				
	A E	NGINEERED TOWER SOLUTIONS							
CLIE	NT W	atagua County	PROJECT NAME POWDER HORN MOUNTAIN	<u> </u>					
PRO.	JECT N	JMBER _25134760	PROJECT LOCATION 340 Deer Run Road, Sto	ny Fork, NC 28	3607				
DATI	E 8/27	2025	<b>COORDINATES</b> <u>36.175522, -81.514225</u>						
DRIL	LING M	ETHOD Hollow Stem Auger (HSA)	GROUND WATER LEVELS:						
1		QUIPMENT CME 45	AT TIME OF DRILLING Not Encounter						
		J. Varela		AT END OF DRILLING Not Encountered					
NOTI	ES		AFTER DRILLING Not Encountered						
	2			SAMPLE TYPE NUMBER	SI SE				
DEPTH (#)	GRAPHIC LOG	MATERIAL	DESCRIPTION	LE J	BLOW COUNTS (N VALUE)				
	GR			AMP	N C C B				
POWDER HORN MOUN JANGES 982 GEO I ECHREFOR I POWDER HORN MOUN JANGES 1 DEPT 2 DEPT 2 DEPT 3 DEPT 3 DEPT 3 DEPT 3 DEPT 3 DEPT 4 DEPT 3 DEPT 4 D		SILTY SAND (SM), fine to coarse, brown and tan, moist,	medium dense	0)					
Z _	-	SIETT SAINE (SW), THE CO COURSE, BIOWITCH WIT, HOISE,	medium dense.						
퓠				SS 1	10-21-21 (42)				
5				<u> </u>	(42)				
<u> </u>									
<u> </u>	- 11			√ ss	8-11-15				
5_5_				2	(26)				
2 5 1		PARTIALLY WEATHERED ROCK (PWR), , samplewd as	silty sand.						
66 66 10 10 10 10 10 10 10 10 10 10 10 10 10				V ss	47.00.50/5"				
	-			3	17-29-50/5"				
	_								
10 10				SS 4	22-27-50/5"				
	1			V					
	-								
24/0									
16202									
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\									
10:35	-			SS 5	35-50				
15	-			7\ 3					
2									
2									
- - -	1								
5 -  -	-								
		Augor Potus	and at 10.0 fact	ss					
20		Auger Refus	sal at 18.9 feet.	6					
4BASI									
DAI									
ETS - BORING LOG - ETS DATABASE_STANDARD_GEOTECH.GDT - 9/4/25 10:39 - R:2028/134/60_									
500									
2									
P. BO									
2				1	120				

# **BORING NUMBER B-2** PAGE 1 OF 1 ENGINEERED TOWER SOLUTIONS PROJECT NAME POWDER HORN MOUNTAIN CLIENT Watagua County PROJECT NUMBER 25134760 PROJECT LOCATION 340 Deer Run Road, Stony Fork, NC 28607 DATE 8/27/2025 **COORDINATES** <u>36.175483, -81.51419</u>4 DRILLING METHOD Hollow Stem Auger (HSA) **GROUND WATER LEVELS:** AT TIME OF DRILLING \_--- Not Encountered DRILLING EQUIPMENT LOGGED BY J. Varela AT END OF DRILLING \_--- Not Encountered NOTES AFTER DRILLING \_--- Not Encountered SAMPLE TYPE NUMBER BLOW COUNTS (N VALUE) GRAPHIC LOG DEPTH (ft) ETS - BORING LOG - ETS DATABASE STANDARD, GEOTECH, GDT - 9/4/25 10:39 - R:2025/134760 POWDER HORN MOUNTAIN/GE19892 GEOTECHIREPORT/POWDER HORN MOUNTAIN/GF1989 MATERIAL DESCRIPTION SILTY SAND (SM), fine to coarse, brown and tan, moist, medium dense. SS 3-7-12 (19)4-9-11 SS (20) CLAYEY SAND (SC), fine to coarse, black and brown, moist, dense. SS 10-13-23 (36)SS 16-17-28 4 (45)PARTIALLY WEATHERED ROCK (PWR),, sampled as clayey sand. SS 23-40-50/5" 15 50/5" SS 20 SS 50/0" Auger Refusal at 23.4 feet.

# **BORING NUMBER B-3**

PAGE 1 OF 1

	TOWER SOLUTIONS							
CLIEN	NT _Watagua County	PROJECT NAME POWDER HORN MOUNTAIN						
PROJ	JECT NUMBER _25134760	PROJECT LOCATION 340 Deer Run Road, Stony Fork, NC 28607						
DATE	E_8/27/2025	COORDINATES 36.175483, -81.514256						
DRILI	LING METHOD Hollow Stem Auger (HSA) and Rock Coring	GROUND WATER LEVELS:						
DRILL	LING EQUIPMENT	AT TIME OF DRILLING Not Encountered						
1	GED BY J. Varela	AT END OF DRILLING Not Encountered						
NOTE	ES	AFTER DRILLING Not Encountered		ı				
DEPTH (ft)			SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)			
	CLAYEY SAND (SC), fine to coarse, brown and tan, mo	sist, loose to medium dense.	× ss		4-3-3			
<u> </u>			X SS	4	(6) 6-9-11			
 	CLAYEY SAND (SC), fine to coarse, brown and tan, mo	sist, medium dense to dense.	≥ 2 SS	4	(20) 8-17-17			
5   - 10			$\frac{3}{SS}$	4	(34)			
5 -			4	1	(26)			
			× ss		10-14-23			
			5	1	(37)			
يا 20			⊠ SS 6		13-13-18			
30	PARTIALLY WEATHERED ROCK (PWR), , sampled as	s clayey sand with rock fragments.	⊠ ss	-	29-50/4"			
	_		7	1	20 00/ 1			
 Z _ 30 _	-		SS		50/3"			
			8	1	00/0			
	GNEISS, , hard rock, slightly weathered and party healed		SS		50/1"			
<u>-</u>	<u>o</u> ; mara reek, originary measurered and party measure	<del>.</del>	9 RC	40	00/1			
40 -			1_	(7)				
1670			RC 2	97 (62)				
				(02)				
5			RC 3	100				
50				(77)				
<u> </u>			RC 4	98 (89)				
			4	(69)				
.i⊢ -			RC	100				
60			1	(97)				
60			RC	100				
2 -			2	(83)				
			RC	100				
<u> </u>			3	(82)				
70			RC 4	97 (78)				
	Bottom of bore	ehole at 73.6 feet.						
7								
2				141				

# THE CINCINNATI INSURANCE COMPANY

### **Bid Bond**

CONTRACTOR (Name, legal status and address):

SURETY (Name, legal status and principal place of business):

K-Co Enterprises, Inc. 613 Hurricane Creek Rd Pledmont, SC 29673 THE CINCINNATI INSURANCE COMPANY 6200 S. GILMORE ROAD FAIRFIELD, OHIO 45014-5141

OWNER (Name, legal status and address):

Watauga County 814 King Street Boone, NC 28607 This document has important legal consequences, Consultation with an attorney is encouraged with respect to its completion or modification.

**BOND AMOUNT:** 

5% of bid

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

PROJECT (Name, location or address, and Project number, if any):

Install tower foundation

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond the sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirements shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 9

day of October, 2025

K-Co Enterprises, Inc.

(Title)

THE CINCINNATI INSURANCE COMPA

Surety)

(SELLE)

(Seal)

CINCINNATI, OHIO

The Company executing this bond vouches that this document conforms to American Institute of Architects Document A310, 2010 Edition. S-2000-AIA (11/10) PUBLIC

TyPE								4			<u>176.0 ft</u>	
190.0 ft	11					x1 3/4x1/8			5.33333	0.7		
Section   Sect						1 3/4						
140 0 R   140		4									160.0 ft	RFI CC807-11 (209" x 3" Dia.)
1400   1400		R 13										
MAY 12 12 12 12 12 12 12 12 12 12 12 12 12		S										6' Pipe Side Arm*
140.0 ft	5									o,		
140.0 ft	-											4
140.0 ft												
1. Tower is located in Wata   2. Tower designed for Expg   3. Tower designed for Expg   3. Tower designed for Expg   3. Tower designed for a 11   4. Tower is located in Wata   2. Tower designed for increase in thickness with   5. Deflections are based up   6. Tower Risk Category II   7. Topographic Category 1   8. TOWER RATINGS 92.49   8. TOWER REACTIONS AT BASE DOWN: 375 K SHEAR: 28 K UPLIFT: 339 K SHEAR: 28 K UPLIFT: 339 K SHEAR: 26 K AXIAL 113 K SHEAR: 26 K AXIAL 113 K SHEAR: 26 K AXIAL 113 K SHEAR: 30.00 mph WIND - 0.75 in ICE AXIAL 46 K SHEAR: 46 K SHEAR: 47 K MOMENT 46 K SHEAR: 47 K MOMENT 46 K SHEAR: 47 K MOMENT 47 K											140.0 ft	RFI CC807-11 (209 X 3 Dia.)
1. Tower is located in Wata   2. Tower designed for Expg   3. Tower designed for Expg   3. Tower designed for Expg   3. Tower designed for a "1"   4. Tower is also designed for increase in thickness with incr												GRADE FV
1. 1. Ower is located in Vexpo 2. Tower designed for expo 3. Tower Risk Category if 4. Tower is last designed for expo 3. Tower Risk Category if 5. Deflections based up 6. Tower Risk Category if 7. Topocraphic Category i 7. Topocraphic Category i 8. TOWER RATING 92.49    Private 1. Tower Risk Category in 1. Topocraphic Category i 1. Topocraphic Cat		4		3/16								
1. 1. Ower is located in Vexpo 2. Tower designed for expo 3. Tower Risk Category if 4. Tower sist designed for expo 3. Tower Risk Category if 5. Deflections because up 6. Tower Risk Category if 7. Topocraphic Category i 7. Topocraphic Category i 8. TOWER RATING 92.49  ALL REACTIONS ARE FACTORED  MAX. CORNER REACTIONS AT BASE DOWN: 375 K SHEAR: 28 K  UPLIFT: -339 K SHEAR: 26 K  AXIAL 113 K SHEAR: 26 K  AXIAL 113 K SHEAR: 25 K  AXIAL 113 K SHEAR: 515 kip-ft TORQUE 2 kip-ft 30.00 mph WIND - 0.75 in ICE  AXIAL 46 K SHEAR: 4053 kip-ft TORQUE 12 kip-ft REACTIONS - 115.00 mph WIND		R 2 1		3/4x:						1.2		
1. 1. Ower is folded in Very 1. Tower designed for expo 3. Tower Risk Category II 4. Tower Risk Category II 5. Deflections to based up 6. Tower Risk Category II 7. Topocraphic Category II 8. TOWER RATING: 92.49    Private 1. Tower Risk Category II 1. Topocraphic Category II 1. Tower Risk Category II 1. Topocraphic Category II 1. Tower RACTIONS ARE FACTORED    MAX. CORNER REACTIONS AT BASE DOWN: 375 K SHEAR: 28 K UPLIFT: -339 K SHEAR: 26 K AXIAL 113 K SHEAR MOMENT 5 K SHEAR: 4053 kip-ft TORQUE 2 kip-ft 30.00 mph WIND - 0.75 in ICE AXIAL 46 K SHEAR MOMENT 45 K MOMENT 45 K MOMENT 4053 kip-ft TORQUE 12 kip-ft REACTIONS - 115.00 mph WIND		S		/4×1								
3. Tower designed for a last of esigned for esigned for a last of esigned for esigned for a last of esigned for es				L1 3								1. Tower is located in Watau
4. Tower is also designed. Increase in thickness with four the increase in thickness with four thickness w	_						نر			$\vdash$	120.0 ft	2. Tower designed for Expos 3. Tower designed for a 115.
5. Deflections are based with Category II 8. Tower RATING: 92.4%  100.0 ft 8. Tower RATING: 92.4%							Ž.					4. Tower is also designed for
6. Tower Risk Category II a 7. Topographic Category II 8. TOWER RATING: 92.49		4										
8. TOWER RATING: 92.4%  ALL REACTIONS  ARE FACTORED  MAX. CORNER REACTIONS AT BASE  DOWN: 375 K  SHEAR: 28 K  AXIAL  113 K  SHEAR: 5K  AXIAL  113 K  SHEAR: 5K  AXIAL  113 K  SHEAR: 4053 kip-ft  TORQUE 12 kip-ft  30.00 mph WIND - 0.75 in ICE  AXIAL  46 K  SHEAR: 4053 kip-ft  TORQUE 12 kip-ft  REACTIONS - 115.00 mph WIND		2 3/4								1.7		6. Tower Risk Category III an
# 1 000 ft   1000 ft   100		SR										7. Topographic Category 1 w 8. TOWER RATING: 92.4%
Second   S												5. TOWERTHOUS. 92.470
## 1								2		Ш	100.0 ft	
Sec 20   S								5.5				
Sec 20   S												
Sec 20   S		33	00		00					9		
ALL REACTIONS ARE FACTORED  MAX. CORNER REACTIONS AT BASE DOWN: 375 K SHEAR: 28 K  UPLIFT: -339 K SHEAR: 26 K  AXIAL 113 K SHEAR: 26 K  AXIAL 113 K SHEAR 515 kip-ft TORQUE 2 kip-ft 30.00 mph Wind - 0.75 in ICE  AXIAL 46 K SHEAR 400 ft TORQUE 12 kip-ft REACTIONS - 115.00 mph Wind		S	572-5		529-6					5		$\wedge$
### SHEAR   MOMENT   15   15   15   15   15   15   15   1			Ą		ΑĘ							
## 1						Ą.					80.0 ft	
### ALL REACTIONS  #### ARE FACTORED  #### MAX. CORNER REACTIONS AT BASE  ### DOWN: 375 K  SHEAR: 28 K  #### UPLIFT: -339 K  SHEAR: 26 K  ### AXIAL  113 K  SHEAR  ### MOMENT  515 kip-ft  TORQUE 2 kip-ft  30.00 mph WIND - 0.75 in ICE  ### AXIAL  46 K  SHEAR  ### MOMENT  40 K  SHEAR  ### TORQUE 12 kip-ft  REACTIONS - 115.00 mph WIND						ż		7				
### ALL REACTIONS  #### ARE FACTORED  #### MAX. CORNER REACTIONS AT BASE  ### DOWN: 375 K  SHEAR: 28 K  #### UPLIFT: -339 K  SHEAR: 26 K  ### AXIAL  113 K  SHEAR  ** TORQUE 2 kip-ft  30.00 mph WIND - 0.75 in ICE  ### AXIAL  46 K  SHEAR  ### AVIAL  ### A				3/16								
### ALL REACTIONS  ARE FACTORED  MAX. CORNER REACTIONS AT BASE  DOWN: 375 K  SHEAR: 28 K  UPLIFT: -339 K  SHEAR: 26 K  AXIAL  113 K  SHEAR  TORQUE 2 kip-ft  30.00 mph WIND - 0.75 in ICE  AXIAL  46 K  SHEAR  AXIAL  46 K  SHEAR  TORQUE 12 kip-ft  40.0 ft  TORQUE 12 kip-ft  REACTIONS - 115.00 mph WIND		3 1/4		1/2x.						9.		
### ALL REACTIONS  #### ARE FACTORED  #### MAX. CORNER REACTIONS AT BASE  ### DOWN: 375 K  SHEAR: 28 K  #### UPLIFT: -339 K  SHEAR: 26 K  #### AXIAL  113 K  SHEAR  ### MOMENT  515 kip-ft  TORQUE 2 kip-ft  30.00 mph WIND - 0.75 in ICE  #### AXIAL  46 K  SHEAR  ### MOMENT  40.0 ft  #### TORQUE 12 kip-ft  #### AUS AXIAL  #### AUS AXIAL		SR		1/2x2						~		
ARE FACTORED  MAX. CORNER REACTIONS AT BASE DOWN: 375 K SHEAR: 28 K  UPLIFT: -339 K SHEAR: 26 K  AXIAL 113 K  SHEAR 5 K  TORQUE 2 kip-ft 30.00 mph WIND - 0.75 in ICE  AXIAL 46 K  SHEAR 4053 kip-ft  TORQUE 12 kip-ft REACTIONS - 115.00 mph WIND				. 2								
MAX. CORNER REACTIONS AT BASE DOWN: 375 K SHEAR: 28 K  UPLIFT: -339 K SHEAR: 26 K  AXIAL 113 K  SHEAR 5 K  TORQUE 2 kip-ft 30.00 mph WIND - 0.75 in ICE  AXIAL 46 K  SHEAR 4053 kip-ft  TORQUE 12 kip-ft TORQUE 12 kip-ft REACTIONS - 115.00 mph WIND								10			60.0 ft	
DOWN: 375 K SHEAR: 28 K  UPLIFT: -339 K SHEAR: 26 K  AXIAL 113 K  SHEAR 5 K  TORQUE 2 kip-ft 30.00 mph WIND - 0.75 in ICE  AXIAL 46 K  SHEAR 40.0 ft  TORQUE 12 kip-ft 40.53 kip-ft  TORQUE 12 kip-ft 40.53 kip-ft  TORQUE 12 kip-ft REACTIONS - 115.00 mph WIND								8.				ARE FACTORED
SHEAR: 28 K  UPLIFT: -339 K SHEAR: 26 K  AXIAL 113 K  SHEAR 515 kip-ft  TORQUE 2 kip-ft 30.00 mph WIND - 0.75 in ICE  AXIAL 46 K  SHEAR  MOMENT 4053 kip-ft  TORQUE 12 kip-ft 4053 kip-ft  TORQUE 12 kip-ft REACTIONS - 115.00 mph WIND												MAX. CORNER REACTIONS AT BASE:
## SHEAR   113 K   113		3 1/2								3.1		
## SHEAR: 26 K  AXIAL  113 K  SHEAR  515 kip-ft  TORQUE 2 kip-ft  30.00 mph WIND - 0.75 in ICE  AXIAL  46 K  SHEAR  AXIAL  46 K  SHEAR  TORQUE 12 kip-ft  4053 kip-ft  TORQUE 12 kip-ft  REACTIONS - 115.00 mph WIND		SR								(*)		SMEAK: 28 K
## 113 K    SHEAR   MOMENT   515 kip-ft												
## 113 K    SHEAR   MOMENT   515 kip-ft							3x3/16				40.0 ft	SHEAR: 26 K
113 K  SHEAR  MOMENT  515 kip-ft  TORQUE 2 kip-ft 30.00 mph WIND - 0.75 in ICE  AXIAL 46 K  SHEAR  MOMENT 4053 kip-ft  TORQUE 12 kip-ft 4053 kip-ft  TORQUE 12 kip-ft REACTIONS - 115.00 mph WIND							L2x2	1				AXIAL
20.0 ft  TORQUE 2 kip-ft 30.00 mph WIND - 0.75 in ICE  AXIAL 46 K  SHEAR  MOMENT 4053 kip-ft  TORQUE 12 kip-ft REACTIONS - 115.00 mph WIND				_								
20.0 ft  TORQUE 2 kip-ft 30.00 mph WIND - 0.75 in ICE  AXIAL 46 K  SHEAR  MOMENT 4053 kip-ft  TORQUE 12 kip-ft 4053 kip-ft  REACTIONS - 115.00 mph WIND		3 3/4		3x1/4						3.5		CUEAD
20.0 ft  TORQUE 2 kip-ft 30.00 mph WIND - 0.75 in ICE  AXIAL 46 K  SHEAR 4053 kip-ft 4053 kip-ft  TORQUE 12 kip-ft REACTIONS - 115.00 mph WIND		S		L3x;						(6)		
30.00 mph WIND - 0.75 in ICE  AXIAL 46 K  SHEAR 45 K  TORQUE 12 kip-ft REACTIONS - 115.00 mph WIND												, ,
AXIAL 46 K  SHEAR 4053 kip-ft  TORQUE 12 kip-ft  REACTIONS - 115.00 mph WIND											20.0 ft	
15 K								11.5				30.00 mph WIND - 0.75 in ICE
## 4053 kip-ft  ## 4053 kip-ft  ## 4053 kip-ft  ## 70RQUE 12 kip-ft  REACTIONS - 115.00 mph WIND							3/16					AXIAL
100 th		4 4					1/2x.			0.		46 K
# 45 N		Ŗ					1/2x2			4		CUEAD
							121					
TORQUE 12 kip-ft  REACTIONS - 115.00 mph WIND											0.0 ft	
					m					19.8	_	
95 Grad of grand of g			m		Srade		S	h (ft)	@ (ft)			REACTIONS - 115.00 mpn WIND
8   \$   \$   \$   \$   \$   \$   \$   \$   \$			Srade	onals	onal C	Sirts	ontak	Widt	) slar	ht (K)		
		Legs	eg (	Diago	Diago	Top (	łoriz	-ace	#Par	Weigl		

#### **GNED APPURTENANCE LOADING**

TYPE	ELEVATION	TYPE	ELEVATION	
Lightning Rod 5/8x5'	176	6' Pipe Side Arm*	135	
RFI CC807-11 (209" x 3" Dia.)	155	RFI CC807-11 (209" x 3" Dia.)	135	
RFI CC807-11 (209" x 3" Dia.)	155	Decibel DB224 (21.25' - 4 elements)*	135	
6' Pipe Side Arm*	155	Carrier #1 - 40,000 sq in	120	
6' Pipe Side Arm*	155	Dish Mount	110	
6' Pipe Side Arm*	155	Dish Mount	110	
Decibel DB224 (21.25' - 4 elements)*	155	HX6-6W	110	
TMA 12" x 12" x 6"	154	HX6-6W	110	
6' Pipe Side Arm*	135	Carrier #1 - 40,000 sq in	80	
6' Pipe Side Arm*	135	6' Pipe Side Arm*	40	
RFI CC807-11 (209" x 3" Dia.)	135	Decibel DB224 (21.25' - 4 elements)*	40	

**MATERIAL STRENGTH** 

GRADE	Fy	Fu	GRADE	Fy	Fu	
A572-50	50 ksi	65 ksi	A529-50	50 ksi	65 ksi	

#### **TOWER DESIGN NOTES**

- ga County, North Carolina. ure C to the TIA-222-G Standard.
- one C to the TIA-222-G Standard.

  on mph basic wind in accordance with the TIA-222-G Standard.

  a 30.00 mph basic wind with 0.75 in ice. Ice is considered to height.

  on a 60.00 mph wind.

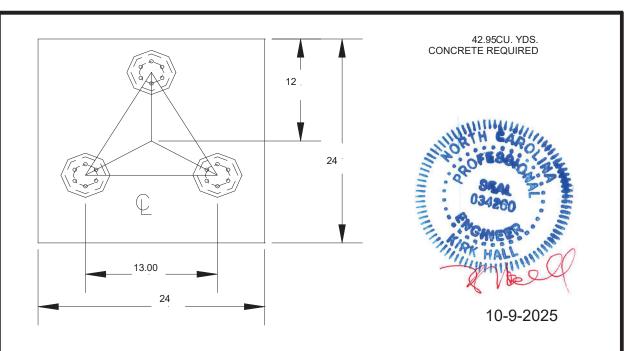
  od IV.

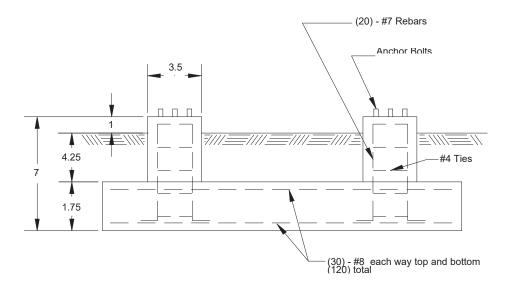
- th Crest Height of 0 ft



10-9-2025

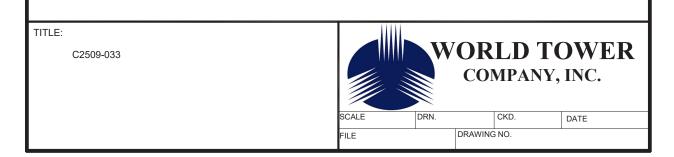
World Tower Company, Inc. lob: 176' WSSTP Tower / Run C2509-033 Project: Powder Horn Mountain 1213 Compressor Dr <sup>Client:</sup> Built Drawn by: Cort Walker Mayfield, KY Phone: 270-247-3642 Scale: NTS Code: TIA-222-G Date: 09/25/243 Dwg No. E-1 FAX:





#### **GENERAL NOTES**

- 1. CONCRETE TO HAVE 4000 PSI MIN. COMPRESSIVE STRENGTH AFTER 28 DAYS. 2. REINFORCEMENT STEEL IS DEFORMED AND MEETS THE REQUIREMENTS OF
- REINFORCEMENT STEEL IS DEFORMED AND MEETS THE REQUIREMENTS OF ASTM A615 GRADE 60.
- 3. EMBEDDED STEEL TO HAVE 3" MIN. CONCRETE COVER.



#### **AGENDA ITEM 10:**

#### **EMERGENCY SERVICES MATTERS**

B. ZOLL Equipment Purchase

#### **MANAGER'S COMMENTS:**

Approval is requested for the purchase of 13 ZOLL Zenix cardiac monitor/defibrillators for the EMS fleet at a total cost of \$909,869.18. The equipment will upgrade and expand the units used by Watauga Medics, Inc. and includes a RescueNet Live subscription for real-time communication with hospitals and medical directors. The purchase also includes a full-service plan covering parts, labor, batteries, and preventive maintenance for the life of the equipment. Funds are available in the approved capital project budget.

Board action is requested to approve the purchase of 13 ZOLL Zenix cardiac monitor/defibrillators from ZOLL Medical Corporation in the amount of \$909,869.18.



#### **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

October 13th, 2025

To: Board of Commissioners

**CC:** Deron Geouque, County Manager

Katie Hancock, Clerk to the Board

Subject: Zoll Equipment Purchase

Board of Commissioners,

Please consider my request for \$909,869.18 for the procurement of 13 Zoll Zenix cardiac monitor/debribrillators current and ordered EMS fleet. This equipment is an upgrade and expansion of the current equipment used by Watauga Medics, Inc. Additionally, the RescueNet Live subscription allows for seamless consultation with our hospital, medical directors, supervisors, and other clinicians as appropriate to provide real-time patient care information across our EMS System. Additionally, the service plan purchase covers all equipment at 100% warranty, including parts, labor, technician travel, battery replacement, and annual preventative maintenance for the service life of the equipment Funds have been budgeted for this purpose as part of this capital project.

Respectfully,

William Holt, MPA, CEM, NREMT-P Emergency Services Director



269 Mill Road Chelmsford, MA 01824-4105 Federal ID# 04-2711626

> Phone: (800) 348-9011 Fax: (978) 421-0015 Email: esales@zoll.com

Quote No: Q-123215 Version: 4

Watauga County Emergency Services 184 Hodges Gap Rd Boone, NC 28607

ZOLL Customer No: 337278

William Holt (828) 264-4235 will.holt@watgov.org Quote No: Q-123215

Version: 4

Issued Date: October 10, 2025 Expiration Date: December 31, 2025

Terms: Net due in 30 days

FOB: Destination Freight: Free Freight

Prepared by: JJ Thomas EMS Territory Manager jj.thomas@zoll.com (865) 771-8657

	1					1	
Item	Contract Reference	Part Number	Description	Qty	List Price	Adj. Price	Total Price
1		8116-11-41-23101-10- USA	Configuration  12-lead, Pacing, SpO2, SpCO, EtCO2, NIBP, Real BVM Help, Real CPR Help    	13	\$65,250.00	\$53,450.00	\$694,850.00
2	CH-19879	8016-000111-01	SurePower 4 Battery	13	\$1,180.00	\$1,040.00	\$13,520.00
3	CH-19879	98-0599-41	Zenix NIBP Cuff, Child	13	\$20.00	\$17.65	\$229.45



269 Mill Road Chelmsford, MA 01824-4105 Federal ID# 04-2711626

> Phone: (800) 348-9011 Fax: (978) 421-0015 Email: esales@zoll.com

Watauga County Emergency Services Quote No: Q-123215 Version: 4

Item	Contract Reference	Part Number	Description	Qty	List Price	Adj. Price	Total Price
4	CH-19879	8000-000862	Masimo LNCS-II Rainbow DCI 8λ SpCO Adult Sensor, 3ft	13	\$900.00	\$885.60	\$11,512.80
5	CH-19879	8000-010111	Masimo NomoLine LH Nasal/Oral CO2 Cannula, Adult, Box of 25	1	\$430.00	\$380.00	\$380.00
6	CH-19879	8900-000422-01	Zenix CPR AA Electrode, Box of 8	2	\$850.00	\$750.00	\$1,500.00
7	CH-19879	8016-000860-01	Zenix Carry Case, Large	13	\$490.00	\$430.00	\$5,590.00
8	CH-19879	8000-001128	AccuVent Sensors, Box of 10	2	\$821.00	\$624.84	\$1,249.68
9	CH-19879	8000-000878-01	Zenix Fan Folder Paper, Grid, Box of 10	2	\$49.00	\$43.00	\$86.00
10		8778-890044-WF-ZNX	Zenix Worry-Free Service Plan - 4 Years - On-Site - At Time of Sale  Includes: Annual preventive maintenance, battery charger repairs per ZOLL Limited Product Warranty, SurePower 4 Battery replacement upon verified failure, accidental damage coverage, on-site service, and pod replacement upon verified failure. Shipping and use of a Service Loaner upon request, during device service, no charge shipping. Service Plan is a continuation of ZOLL Limited Product Warranty. Battery replacement and accidental damage guidelines can be found in the ExpertCare Service Plan Terms and Conditions on the ZOLL website.	13	\$9,760.00	\$8,784.00	\$114,192.00
11		8400-110075	RescueNet Live, 5 Year Subscription	13	\$5,086.00	\$5,086.00	\$66,118.00
12		8016-001000	SurePower 4 Charger Adapter	24	\$450.00	\$225.00	\$5,400.00
13		8050-0030-01	SurePower Charging Station  4 Charging bays, Multiple chemistry compatible, 200 watt capacity, Graphic driven user interface, RS-232 Communication port, Standard one (1) year warranty	5	\$3,131.00	\$2,348.25	\$11,741.25
14		6008-9901-61	ZOLL X Series Trade In Allowance (EMS Group) See Trade Unit Considerations.	3		(\$5,500.00)	(\$16,500.00)
15		8016-000121-01	Zenix Green CPR Connector	1	\$570.00	\$0.00	\$0.00

Subtotal: \$909,869.18

Total: \$909,869.18



269 Mill Road Chelmsford, MA 01824-4105 Federal ID# 04-2711626

> Phone: (800) 348-9011 Fax: (978) 421-0015 Email: esales@zoll.com

Watauga County Emergency Services Quote No: Q-123215 Version: 4

Contract Reference	Description
CH-19879	Reflects Sourcewell 2023 041823-ZLL Contract Pricing. Notwithstanding anything to the contrary herein, the terms and conditions set forth in Sourcewell 2023 041823-ZLL shall apply to the customer's purchase of the products set forth on this quote.

#### **Trade Unit Considerations**

Trade-In values valid through December 31, 2025 if all equipment purchased is in good operational and cosmetic condition and includes all standard accessories. Trade-In values are dependent on the quantity and configuration of the ZOLL devices listed on this quotation. Customer assumes responsibility for shipping trade-in equipment at the quantities listed on the trade line items in this quotation to ZOLL's Chelmsford Headquarters within 60 days of receipt of new equipment. Customer agrees to pay cash value for trade-in equipment not shipped to ZOLL on a timely basis.

To the extent that ZOLL and Customer, or Customer's Representative have negotiated and executed overriding terms and conditions ("Overriding T's & C's"), those terms and conditions would apply to this quotation. In all other cases, this quote is made subject to ZOLL's Standard Commercial Terms and Conditions ("ZOLL T's & C's") which for capital equipment, accessories and consumables can be found at <a href="https://www.zoll.com/terms-and-conditions-of-sale">https://www.zoll.com/terms-and-conditions-of-sale</a>, for software products can be found at <a href="https://www.zoll.com/software-legal">https://www.zoll.com/software-legal</a>, and for ExpertCare Service Plans can be found at <a href="https://www.zoll.com/ExpertCare-Service-Terms">https://www.zoll.com/software-legal</a>, and for ExpertCare Service Plans can be found at <a href="https://www.zoll.com/ExpertCare-Service-Terms">https://www.zoll.com/ExpertCare-Service-Terms</a>. Except in the case of overriding T's and C's, any Purchase Order ("PO") issued in response to this quotation will be deemed to incorporate ZOLL T's & C's, and any other terms and conditions presented shall have no force or effect except to the extent agreed in writing by ZOLL.

- 1. Delivery will be made upon availability.
- 2. This Quote expires on December 31, 2025. Pricing is subject to change after this date.
- 3. Applicable tax, shipping & handling will be added at the time of invoicing.
- 4. All purchase orders are subject to credit approval before being accepted by ZOLL.
- 5. To place an order, please forward the purchase order with a copy of this quotation to esales@zoll.com or via fax to 978-421-0015.
- 6. All discounts from list price are contingent upon payment within the agreed upon terms.
- 7. Place your future accessory orders online by visiting the ZOLL web store.



269 Mill Road Chelmsford, MA 01824-4105 Federal ID# 04-2711626

> Phone: (800) 348-9011 Fax: (978) 421-0015 Email: esales@zoll.com

Watauga County Emergency Services Quote No: Q-123215 Version: 4

Order Information (to be completed by the customer)									
[ ] Tax Exempt Entity (Tax Exempt Certificate must be prov	ided to ZOLL)								
] Taxable Entity (Applicable tax will be applied at time of invoice)									
BILL TO ADDRESS SHIP TO ADDRESS									
Name/Department:	Name/Department:								
Address:	Address:								
City / State / Zip Code:	City / State / Zip Code:								
Is a Purchase Order (PO) required for the purchase and/or payme  [ ] Yes PO Number: Po  (A copy of the Purchase Order must be include)	O Amount:								
[ ] No (Please complete the below section when submitting this order)  For organizations that do not require a PO, ZOLL requires written execution of this order. The person signing below represents and warrants that she or he has the authority to bind the party for which he or she is signing to the terms and prices in this quotation.  Watauga County Emergency Services									
Authorized Signature:  Name: Title: Date:	- - -								



Watauga County Emergency Services Quote No: Q-123215 Version: 4 269 Mill Road Chelmsford, Massachusetts 01824-4105 978-421-9655 (main) 978-421-0025 (fax) www.zoll.com

# ALS/BLS Software Solutions Master Software, SaaS and Services Agreement and Addenda Acknowledgement Form

The terms and conditions applicable to ZOLL Medical Corporation's Software Solutions products can be found at <a href="https://www.zoll.com/en/about-zoll/legal">https://www.zoll.com/en/about-zoll/legal</a>. By signing below, the Customer acknowledges and agrees to those terms and conditions. The person signing below represents and warrants that she or he has the authority to bind the Customer to those terms and conditions.

<u>Customer</u>
Signature:
Name:
Γitle:
Company:
Company Address:
Date:

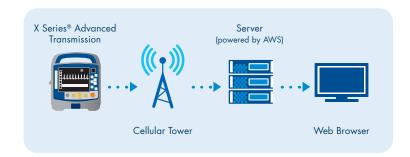
#### RescueNet® Live

# Supporting Your Telehealth Needs

Telehealth solutions are becoming increasingly critical in the global healthcare environment.

RescueNet Live from ZOLL allows clinicians to remotely view real-time data from the X Series®

Advanced monitor/defibrillator screen via a cellular or WiFi connection.



#### RescueNet Live allows providers access to:

- Top 4 waveforms\*
- Heart rate
- Non-invasive blood pressure
- EtCO<sub>2</sub> values
- Masimo rainbow® SET® parameters
- Invasive blood pressure
- Temperature

#### Providers will also have visibility into:

- Trends
- 12-lead snapshots
- Alarms
- Patient demographics
- Gallery view of multiple streams
- Multiple users connecting to a specific stream

#### RescueNet Live offers effective decision support to help EMS organizations meet their telehealth needs.

As telehealth programs continue to help improve patient care, providers can rely on RescueNet Live to share the real-time feedback and data necessary to provide optimal care in every situation.

For more information, visit zoll.com/rescuenetlive



<sup>\*</sup>Available in version 2.36 and later.
2.36 is not currently available in North America.

#### **AGENDA ITEM 10:**

#### **EMERGENCY SERVICES MATTERS**

C. Ambulance Purchase

#### **MANAGER'S COMMENTS:**

Approval is requested for the purchase of a 2025 Ford F-350 4x4 Type I ambulance from AEV at a cost of \$256,192. This is a stock unit available through the HGAC competitive procurement group, offered to the County before being released to other agencies. Funds have been budgeted in the current capital project for this purpose.

Board action is requested to approve the purchase of a 2025 Ford F-350 4x4 Type I ambulance from AEV in the amount of \$256,192.



### **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

October 13<sup>th</sup>, 2025

**To:** Board of Commissioners

**CC:** Deron Geouque, County Manager

Katie Hancock, Clerk to the Board

Subject: Ambulance Purchase

Board of Commissioners,

Please consider my request for \$256,192 for the purchase of a 2025 Ford F-350 4x4 Type 1 ambulance from AEV. This is a stock unit that was not purchased by a different agency so AEV has offered it to us first. This unit is competitively bid as part of the HGAC procurement group. Funds have been budgeted for this purpose as part of this capital project.

Respectfully,

William Holt, MPA, CEM, NREMT-P Emergency Services Director

### **QUOTE**







### Northwestern Emergency Vehicles

Watauga County Emergency Services 184 Hodges Gap Rd. Suite D Boone, NC 28607

Date	Sales Rep.	FOB	Ship Via	Terms
10/6/25	David Hudler	Destination	Drive	Net on Acceptance

Quantity	Item	Description	Unit Price	Total
1		2025 Ford F-350 4X4 Type I AEV Ambulance	\$256,192.00	\$256,192.00
		* This unit will be finishing the end of march *		
			TOTAL	\$256,192.00

Northwestern Emergency Vehicles Phone: (800) 536-8488 P.O. Box 790

Jefferson, NC 28640

Phone: (800) 536-8488 Fax: (336) 246-8978 E-mail: david@nwev.com

#### **AGENDA ITEM 10:**

#### **EMERGENCY SERVICES MATTERS**

D. New Facility Console Purchase

#### **MANAGER'S COMMENTS:**

Approval is requested for the purchase of six (6) consoles for the new communications center at a total cost of \$131,156.97. The purchase includes the consoles and all associated mounting systems for radios, phones, and monitors at each telecommunicator workstation. Funds have been budgeted for this purchase through the 911 Emergency Telephone Surcharge Fund as part of the ongoing capital project.

Board action is requested to approve the purchase of six communications consoles from Sustema Corp. in the amount of \$131,156.97.



#### **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

October 13th, 2025

**To:** Board of Commissioners

CC: Deron Geouque, County Manager

Katie Hancock, Clerk to the Board

Subject: New Facility Console Purchase

Board of Commissioners,

Please consider my request for \$131,156.97 for the purchase of 6 consoles for the new communications center. This equipment is the console itself and all associated mounting systems for radios, phones, and monitors at each telecommunicator position. Funds have been budgeted for this purpose through the 911 Emergency Telephone Surcharge Fund as part of the capital project.

Respectfully,

William Holt, MPA, CEM, NREMT-P Emergency Services Director Sustema Corp. 10 East 40th Street **Suite 3310** New York, NY 10016 1-855-787-8362

sustema Function DESIGN TECHNOLOGY SYNERCY

Contact email

louis.larouche@sustema.com

**QUOTATION** 

Pages: 1 of 1

Total

Phone

1-855-787-8362 X503

Unit Price

N°. 26067

Date: 2025-09-09 YYYY-MM-DD

Web: http://www.sustema.com

PRESENTED TO Watauga County 911 **Emily Whichard** 

Federal EIN

32-0648366

Qty Ordered

6

6

6

6

6

6

12

24

12

12

12

6

6

6

6

#### **DELIVERY ADDRESS:**

814 W King Street Boone, NC 28607

Available on MWCOG contract # 21-070, through Tactical Public Safety

Part No

C303-4200-2DSS-111

C273-DPFD-01-01

C375-DPF-00

C375-PES2B-00

C340-84xx-00-xx

961-0415-000

965+0115+000

973+0005+001

M220PS5T8B

SOR12900NV

Nf3EWB

TL504

M2201584T6B1RA

BE1820-0001994

S300-302429A-01

C373-4500-00-002

Sales Representative

Louis Larouche

Linak modern control with memory and display

Protection housing for DPF4T control pad

Urethane waterfall molding edging

Monitor posts

Monitor arms

Task light

Slatwall for monitor arms

Banner status light 4 colors

Bump/tape switch for console surface

PDU 48" strip, 120V, 8 outlets, 15' cord

Monument, 2 power, 2 dual USB A&C

Clamp for task light on monitor posts

Protection housing for 2 fans/heater buttons

Description

6 cockpit Transit consoles 78 x 78, focal adjustment, PES

78" x 78" Transit cockpit consoles, Dual surfaces, PES system

Power bar, 6 outlets, for undermonitor shelf mounting, 15' cord

30"L x 24"D x 29"H, storage cabinet with lockable doors

\$19,124.13	\$114,744.80
<b>\$500.70</b>	<b>CO 440 47</b>
\$568.70	\$3,412.17

#### **AGENDA ITEM 11:**

#### **TAX MATTERS**

A. Monthly Collections Report

#### **MANAGER'S COMMENTS:**

Mr. Tyler Rash, Tax Administrator, will present the Monthly Collections Report for September 2025, and be available for questions and discussion.

The report is for information only; therefore, no action is required.

#### **Monthly Collections Report**

#### Watauga County

Bank deposits of the following amounts have been made and credited to the account of Watauga County. The reported totals do not include small shortages and overages reported to the Watauga County Finance Officer

Monthly Report September 2025

	Current Month Collections	Current FY Collections	Current FY Percentage	Previous FY Percentage
General County				<del></del>
Taxes 2025	626,880.72	626,880.72	1.39%	20,45%
Prior Year Taxes	48,067.82	157,332.91		
Solid Waste User Fees	60,472.95	60,472.95	1.56%	18.32%
Total County Funds	\$735,421.49	\$844,686.58		
Fire Districts				
Foscoe Fire	9,914.24	9,914.24	1.39%	23.41%
Boone Fire	20,076.26	20,076.26	1.47%	18.94%
Fall Creek Service Dist.	296.15	296.15	2.06%	14.05%
Beaver Dam Fire	1,824.60	1,824.60	1.26%	20.70%
Stewart Simmons Fire	3,347.35	3,347.35	0.71%	25.17%
Zionville Fire	3,199.00	3,199.00	1.95%	17.68%
Cove Creek Fire	7,186.58	7,186.58	1.96%	17.26%
Shawneehaw Fire	5,186.14	5,186.14	2.92%	24.72%
Meat Camp Fire	5,501.30	5,501.30	1.65%	16.06%
Deep Gap Fire	4,509.56	4,509.56	1.54%	18.03%
Todd Fire	1,027.25	1,027.25	1.28%	25.00%
Blowing Rock Fire	11,287.66	11,287.66	1.50%	24.70%
M.C. Creston Fire	72.35	72.35	0.92%	20.01%
Foscoe Service District	2,295.92	2,295.92	2.07%	19.87%
Beech Mtn. Service Dist.	2,883.61	2,883.61	0.08%	10.16%
Cove Creek Service Dist.	336.65	336.65	0.00%	10.83%
Shawneehaw Service Dist	542.47	542.47	6.11%	13.60%
Total Fire Districts	79,487.09	79,487.09		
<u>Towns</u>				
Boone	112,686.52	112,686.52	1.17%	17.64%
Municipal Services	2,528.25	2,528.25	0.84%	10.71%
Total Town Taxes	\$115,214.77	\$115,214.77		
Total Amount Collected	\$930,123.35	\$1,039,388.44		

Blgina Houck Tax Collections Director

Lylw Rose Tax Administrator

#### **AGENDA ITEM 11:**

#### **TAX MATTERS**

B. Refunds and Releases

#### **MANAGER'S COMMENTS:**

Mr. Tyler Rash, Tax Administrator, will present the Refunds and Releases for September 2025, and be available for questions and discussion.

Board action is requested to accept the September 2025 Refunds and Releases Report.



	CAT YEAR BILL EFF DATE	V	ALUE	
OWNER NAME AND ADDRESS	PROPERTY JUR REASON	REF NO	CHARGE	AMOUNT
1857550 ADAMS, JEFFREY KEITH AMAN, ELIZABETH ANN 190 SASKIA GROVE RD	RE 2025 21696 09/11/2025 1961-00-6519-000 F08 TAX ADJUSTMENTS	12144	0 F08 G01	54.50 346.62
BANNER ELK, NC 28604	SENIOR EXEMPTION DID NOT CALCU	JLATE		401.12
1641368 AFFORDABLE HOUSING OF MID FLORIDA INC PO BOX 2071	RE 2025 7687 09/17/2025 1878-14-3971-000 C04 TAX RELEASES	12153	0 G01	122.75
BANNER ELK, NC 28604	PARCEL WAS RETIRED IN 2024.			
1858940 AYCOCK, WILLIAM C. AYCOCK, LISA B. P.O. BOX 1212	RE 2025 32789 09/30/2025 2817-27-3021-000 C03 TAX ADJUSTMENTS BILLING FOR 2 SWF FEES-PREVIOL		0 SWF	115.00
BLOWING ROCK, NC 28605	HOME IS NOW ATTACHED PER TOWN	OF BR		
1843251 AYOUB, STEVEN M 20273 NW 251ST TER	RE 2025 14777 09/29/2025 1940-37-6969-000 C05 TAX RELEASES	12178	0 G01 SWF	1,794.16 115.00
HIGH SPRINGS, FL 32643	PARCEL WAS RETIRED IN 2024.	12170		1,909.16
1843251 AYOUB, STEVEN M 20273 NW 251ST TER	RE 2025 14806 09/29/2025 1940-38-6027-000 C05 TAX RELEASES	12179	0 G01	26.39
HIGH SPRINGS, FL 32643	PARCEL WAS RETIRED IN 2024.			
1767340 BERKLEY, JEANNE R 106 BOBCAT LN	RE 2025 17178 09/11/2025 1941-61-2604-000 C05 TAX ADJUSTMENTS	12145	0 G01	536.30
BEECH MOUNTAIN, NC 28604	SENIOR EXEMPTION DID NOT CALCU	JLATE		
1853265 BLUE RIDGE BUFFALO PARTNERS, LLC 5014 HOLLOW ROCK RD	RE 2025 55260 09/15/2025 2950-61-4092-000 F05 TAX RELEASES	12199	0 F05 G01	3,654.92 13,673.68
DURHAM, NC 27707	PARCEL NO LONGER EXISTS FOR 20			17,328.60
1736797 BR DEVELOPMENT GROUP, LLC REYNOLDS CAPITAL GROUP 3050 PEACHTREE RD NW STE 370	RE 2025 39881 09/29/2025 2857-88-8711-000 F05 TAX RELEASES	12173	0 F05 G01	101.15 378.42
ATLANTA, GA 30305	PARCEL WAS RETIRED IN 2024.			479.57
1521673 BROOKS, LINDA E BROOKS, BILL 553 BEATY ST	RE 2025 52893 09/09/2025 2930-39-0316-000 F10 TAX RELEASES PARCEL NO LONGER EXISTS FOR 20	12140 025.	0 F10 G01 SWF	168.80 1,073.57 115.00
DAVIDSON, NC 28036				1,357.37



OWNER NAME AND ADDRESS	CAT YEAR BILL EFF DATE PROPERTY JUR REASON	V REF NO	ALUE CHARGE	AMOUNT
1834444 COLLINS, GRANT M COLLINS, KELLY E 115 PASSIONFLOWER TRL BOONE, NC 28607	RE 2025 40129 09/29/2025 2858-58-0767-000 F05 TAX RELEASES PARCEL WAS RETIRED IN 2024.	12171	0 F05 G01	187.00 699.60  886.60
1037472 CRAIG, JERRY D 1079 LITTLE LAUREL RD BOONE, NC 28607-7481	RE 2025 34216 09/22/2025 2818-67-3050-000 F12 TAX RELEASES PARCEL WAS RETIRED IN 2024.	12197	0 F12 G01 SWF	238.55 1,517.18 115.00 1,870.73
1785521 CWBR1150, LLC C/O MAIN AND PINE LLC 5310 S. ALSTON AVE., STE. 210 DURHAM, NC 27713	RE 2025 31082 09/26/2025 2807-97-0406-001 C03 TAX RELEASES PARCEL DOUBLE TAXED FOR 2025.	12162	0 G01	2,208.83
1859523 DAGENHART, DIANA 262 DAGENHART FARM RD STATESVILLE, NC 28677	RE 2025 37449 09/30/2025 2829-44-9758-000 F02 TAX RELEASES PARCEL WAS RETIRED IN 2024.	12190	0 F02 G01	21.18 112.25 133.43
1859523 DAGENHART, DIANA 262 DAGENHART FARM RD STATESVILLE, NC 28677	RE 2025 37450 09/30/2025 2829-44-9807-000 F02 TAX RELEASES PARCEL WAS RETIRED IN 2024.	12189	0 F02 G01	21.18 112.25 133.43
1556262 DAGENHART, TONY D DAGENHART, DIANA B 262 DAGENHART FARM RD STATESVILLE, NC 28677	RE 2025 37448 09/30/2025 2829-44-9757-000 F02 TAX RELEASES PARCEL WAS RETIRED IN 2024.	12188	0 F02 G01	.66 3.50 4.16
1556262 DAGENHART, TONY D DAGENHART, DIANA B 262 DAGENHART FARM RD STATESVILLE, NC 28677	RE 2025 37606 09/30/2025 2829-54-0727-000 F02 TAX RELEASES PARCEL WAS RETIRED IN 2024.	12191	0 F02 G01 SWF	65.76 348.53 115.00 529.29
1786081 DALGLEISH, DONALD A. 207 SPRING BRANCH RD  BEECH MOUNTAIN, NC 28604	RE 2025 19620 09/26/2025 1950-45-1635-000 C05 TAX ADJUSTMENTS SENIOR EXEMPTION DID NOT CALCU	12163 JLATE	0 G01	509.76



#### RELEASES - 09/01/2025 TO 09/30/2025

		CAT YEAR	BILL	EFF DATE		VALUE			
OWNER	NAME AND ADDRESS	PROPERTY REASON		JUR	REF NO		CHAR	GE AMOUNT	
1860693	DEESE, HOLLIS	PP 2025	1590	09/29/2025		0	SWF	115.00	
	157 HENSELS LANE	4551 TAX ADJUSTMI	MENTS	F02	12166				
	BOONE, NC 28607	MOBILE HOME PARK TOOK OW			-BRADFORD				
1857814	ELEVATE LAND PARTNERS II LLC 491 WILLIAMSON RD STE 207	RE 2025 553 2950-74-2084-00				0	F10 G01	975.90	
	491 WILLIAMSON RD STE 207	TAX RELEASES	;		12155		GUI	6,206.72	
	MOORESVILLE, NC 28117	PARCEL WAS R	ETIRED	IN 2024.				7,182.62	
1768700	FLANDERS, APRIL	RE 2025 48 2911-58-5401-0 TAX ADJUSTMENT VET EXEMPTION		09/30/2025 F09	12181	0	F09 G01	22.50 143.10	
	JONES, JAMES 321 SALLY ST						GUI		
	BOONE, NC 28607		N DID	NOT CALCULAT				165.60	
1632858	GIZINSKI, THOMAS S			2 09/29/2025 FS1 D WITH ANOTHER	12169		FS1	700.20	
	GIZINSKI, SUSAN H 650 SHUCK PEN RIDGE RD	1980-89-946 TAX RELEASE	ES				G01 SWF	4,453.27 115.00	
	VILAS, NC 28692	PARCEL WAS M						5,268.47	
1622050	•	2025	25057	00 (20 (2025		0	1	,	
1632858	GIZINSKI, THOMAS S GIZINSKI, SUSAN H	1980-99-1332	2025 25057 09/29/2025 -99-1332-000 FSI RELEASES EL WAS RETIRED IN 2024.	09/29/2025 FS1	12170	0	FS1 G01	31.15 198.11	
	650 SHUCK PEN RIDGE RD	TAX RELEASES		TN 2024				229.26	
	VILAS, NC 28692	TARCEL WAS IN	LITINED	111 20211				223120	
1814627	GOLDS, JOAN G	RE 2025				0	F10	39.72	
	1020 ORCHARD RD	2961-90-4009 TAX ADJUSTME		F10	12151		G01	252.65	
	DEEP GAP, NC 28618-9432	SENIOR EXEMP	TION D	ID NOT CALCU	JLATE			292.37	
1856489	GREENE, REX H, LIFE ESTATE	RE 2025 2869-49-0493		09/11/2025 F10		0	F10 G01	77.55 493.22	
	GREENE, CHRISTINE H, LIFE ESTATE 335 WILDCAT RIDGE RD	TAX ADJUSTME	NTS		12146		GUI		
	DEEP GAP, NC 28618	SENIOR EXEMP	PTION DID NOT CALCU		JLATE			570.77	
1620086	HALL, KIMBERLY Q	RE 2025				0	F12	142.90	
	EHNENN, JILL R 152 ARTISTS ALY	1897-86-0704 TAX RELEASES		0 F12	12158		G01 SWF	908.84 115.00	
	BLOWING ROCK, NC 28605-9614	PARCEL WAS R	RETIRED IN 2024. TH PARCEL 189776873		5	J.11	1,166.74		
	BLOWING ROCK, NC 20003-3014	COMPTHED MII	II FARC	LL 109//00/3	7 FUR 202.	,		1,100.74	

3



OWNER NAME AND ADDRESS	CAT YEAR BILL EFF DATE PROPERTY JUR REASON	VALU	UE CHARGE	AMOUNT
1817050 HALL, KIMBERLY QUINN EHNENN, JILL ROSE 152 ARTIST ALY BLOWING ROCK, NC 28605	RE 2025 12699 09/23/2025 1897-76-8734-000 F12 TAX RELEASES PARCEL WAS RETIRED IN 2024. COMBINED WITH PARCEL 189786070	12157 4 FOR 2025	0 F12 G01	20.50 130.38  150.88
1076272 HERRING, WILLIAM AND DR A JO K 760 WALNUT LN VILAS, NC 28692	RE 2025 25919 09/29/2025 1982-53-4145-000 F07 TAX RELEASES PARCEL WAS RETIRED IN 2024.	12174	0 F07 G01 SWF	479.20 3,047.71 115.00 3,641.91
1867048 HERZOG, MARGIT VANNOY, SUSAN 125 PROFILE VIEW RD #A2 BANNER ELK, NC 28604	PP 2025 1806 09/26/2025 4817 F01 TAX RELEASES REMOVING LATE LISTING DUE TO I	12161 SSUE GETT	0 F01L G01L	2.75 17.49 20.24
1860089 INFANTINO, ELIZABETH S, TRUSTEE THE NANCY B. STEPHENS TRUST 783 GRANVILLE DR WINTER PARK, FL 32790	RE 2025 34575 09/30/2025 2819-11-8711-000 F12 TAX RELEASES PARCEL WAS RETIRED IN 2024.	12185	0 F12 G01 SWF	314.20 1,998.31 115.00 2,427.51
1860089 INFANTINO, ELIZABETH S, TRUSTEE THE NANCY B. STEPHENS TRUST 783 GRANVILLE DR WINTER PARK, FL 32790	RE 2025 34580 09/30/2025 2819-11-9767-000 F12 TAX RELEASES PARCEL WAS RETIRED IN 2024.	12184	0 F12 G01	.90 5.72 6.62
1760652 JAMES AND JOYCE ZELLNER TRUST 127 SADDLEWAY DR BLOWING ROCK, NC 28605	RE 2025 31851 09/26/2025 2809-71-4965-000 F02 TAX RELEASES PARCEL WAS RETIRED IN 2024.	12195	0 F02 G01	138.00 731.40 869.40
1754217 JAMES AND JOYCE ZELLNER UNDER AGREEMENT 127 SADDLEWAY DR BLOWING ROCK, NC 28605	2809-72-5481-000 F02 TAX RELEASES PARCEL WAS RETIRED IN 2024.	12196	0 F02 G01 SWF	307.74 1,631.02 115.00 2,053.76
1853994 JONES, GARY C. JONES, RITA P. 1698 CHESTNUT GROVE RD BOONE, NC 28607	RE 2025 44390 09/15/2025 2902-87-6887-000 F09 TAX RELEASES PARCEL DEACTIVATED IN 2024.	12198	0 F09 G01 SWF	146.85 933.97 230.00 1,310.82



	CAT YEAR BILL EFF DATE PROPERTY	UR	VALUE		
OWNER NAME AND ADDRESS	REASON	REF NO	(	CHARGE AMO	DUNT
1784413 LAIL, SEAN MICHAEL LAIL, HEIDEE K 1211 HOPEWELL CHURCH RD BOONE, NC 28607	RE 2025 49351 09/11/202 2913-44-6822-000 FO TAX ADJUSTMENTS VET EXEMPTION DID NOT CALCU	09 12141	0 F	F09 22 G01 143	
1862021 LISOWSKI, DEREK LISOWSKI, GENEVIEVE 441 LAUREL FORK RD VILAS, NC 28692	RE 2025 28171 09/11/202 1991-52-9638-000 FO TAX ADJUSTMENTS VET EXEMPTION DID NOT CALCU	02 12142	0 F	GO1 143	00 10 
1578481 M-PRINTS INC P O BOX 506 BOONE, NC 28607	PP 2025 2963 09/30/202 578481999 M REFUND RELEASE	5 51 12194		G01 121	25 05 
1768500 MCNEIL, DAVID SCOTT MCNEIL, KAREN ISAACS 5820 HOWARDS CREEK RD BOONE, NC 28607	PP 2025 1024 09/24/202 3280 F TAX RELEASES SOLD MH IN 2023	5 07 12159	S	G01 9 SWF 115 F07L	55 86 00 16 99
1505908 MELE, DONALD PETER 180 PINE HILL RD BOONE, NC 28607	RE 2025 14293 09/11/202 1899-69-7942-000 F TAX ADJUSTMENTS VET EXEMPTION DID NOT CALCU	02 12143	0 F		
1511305 MILLER, MICHAEL 1157 LONGHOPE RD TODD, NC 28684-9519	RE 2025 49618 09/11/202 2914-31-9134-000 F TAX ADJUSTMENTS SENIOR EXEMPTION DID NOT CA	09 12147	0 F	F09 32 G01 205 237	
1528876 MILLER, ROGER LEE MILLER, KAREN B PO BOX 2241 BOONE, NC 28607	PP 2025 2653 09/26/202 528876999 F TAX RELEASES TAGGED VEHICLE IN 2017	5 02 12164	0	F02 G01L F02L	59 .30 .16 .03 
1761187 OLEY, KEVIN M 5983 OLD US HWY 421 ZIONVILLE, NC 28698-9320	RE 2025 26810 09/30/202 1984-46-5231-000 FO TAX RELEASES PARCEL RETIRED IN 2024.	5 06 12182		F06 119 G01 759	. 45 . 70 00



	CAT YEAR BILL EFF DATE PROPERTY JUR	VAL	_UE	
OWNER NAME AND ADDRESS	REASON	REF NO	CHARGE	AMOUNT
1761187 OLEY, KEVIN M 5983 OLD US HWY 421	RE 2025 26811 09/23/2025 1984-46-5232-000 F06 TAX RELEASES	12156	0 F06 G01 SWF	115.60 735.22 115.00
ZIONVILLE, NC 28698-9320	PARCEL WAS RETIRED IN 2024.			965.82
1848055 PALOMEQUE-GOSSELIN, WILLIAM EDW PALOMEQUE-GOSSELIN, LUIS EDUARD 16403 DOVES CANYON LN		12192	0 F02 G01 SWF	66.06 350.12 115.00
CHARLOTTE, NC 28278	PARCEL WAS RETERED IN 2021.			531.18
1828058 PAYNE, JOHN M. PAYNE, PHYLLIS T. 831 PARKCREST DR	RE 2025 53619 09/30/2025 2931-81-5037-000 F10 TAX RELEASES PARCEL WAS RETIRED IN 2024.	12186	0 F10 G01 SWF	354.70 2,255.89 115.00
BOONE, NC 28607	PARCEL WAS RETIRED IN 2024.			2,725.59
1610820 PERRY, MORRIS LIFE ESTATE PERRY, ESTHER LIFE ESTATE 198 LOLA PERRY RD	RE 2025 29386 09/18/2025 1993-29-2723-000 F06 TAX RELEASES	12154	0 F06 G01 SWF	114.80 730.13 115.00
ZIONVILLE, NC 28698	PARCEL NO LONGER EXISTS FOR 2	023.		959.93
1731566 POOLE, SHAWN W PO BOX 884	RE 2025 30683 09/29/2025 2807-84-6995-000 C03 TAX ADJUSTMENTS	12177	0 SWF	115.00
BLOWING ROCK, NC 28605	SECOND ADDRESS IS ATTACHED TO 2ND SWF NO LONGER REQUIRED	THE PROPER		
1813881 RCPBD INVESTMENTS, LLC P.O. BOX 3018	RE 2025 48288 09/24/2025 2911-73-6137-000 F02 TAX RELEASES	12160	0 F02 G01	452.16 2,396.45
BOONE, NC 28607	PARCEL WAS RETIRED IN 2024.	11100		2,848.61
1822527 RNA INVESTMENT GROUP, LLC 1331 NORWOOD ST	RE 2025 27268 09/29/2025 1990-18-7333-000 FS1 TAX RELEASES	12175	0 FS1 G01	10.90 69.32
LENOIR, NC 28645	PARCEL RETIRED IN 2024.			80.22
1822527 RNA INVESTMENT GROUP, LLC 1331 NORWOOD ST	RE 2025 27270 09/29/2025 1990-18-8199-000 FS1 TAX RELEASES	12176	0 FS1 G01 SWF	625.65 3,979.13 115.00
LENOIR, NC 28645	PARCEL RETIRED IN 2024.			4,719.78



OWNER	NAME AND ADDRESS	CAT YEAR BILL PROPERTY REASON	EFF DATE JUR	REF NO	VALUE	CHARGE	AMOUNT
- OWNER	HAME AND ADDICESS	REASON		KLI NO		CHARGE	AMOUNT
1748872	ROBBS, JAMES ROBBS, JONANNA 1009 W MARION ST	PP 2025 1279 3995 TAX ADJUSTMENTS CUSTOMER CALLED A	09/29/2025 F12	12165	0	F12L G01L	2.21 14.08  16.29
	SHELBY, NC 28150	COSTONER CALLED A	ND EISTED ON	1/13/23			10.23
1810858	SATCHMO AND COMPANY LAND INC PO BOX 447	RE 2025 31310 2808-05-5152-000 TAX RELEASES	09/30/2025 F12	12193	0	F12 G01	44.60 283.66
	BLOWING ROCK, NC 28605	PARCEL WAS RETIRE	D IN 2024.	11100			328.26
1145911	SHORE, ROBERT JR 262 SHORE DRIVE BLOWING ROCK, NC 28605-9402	RE 2025 34365 2818-87-1675-000 TAX RELEASES PARCEL WAS RETIRE	F12	12187	0	F12 G01 SWF	183.10 1,164.52 230.00
	BEOWENG ROCK, NC 20003 3102	TARGEE WAS RETIRE	20211				1,577.62
1154186	STORIE, GERALD G STORIE, LYNNE S 260 TAYLOR RD	RE 2025 10589 1888-29-6626-000 TAX RELEASES	F01	12200	0	F01 G01	149.95 953.68
	BOONE, NC 28607-6820	PARCEL WAS RETIRE	D IN 2024.				1,103.63
1858188	THE JOHN AND ELIZABETH EY FAMILY DYNASTY TRUST 281 PIMPERNEL WAY	RE 2025 39887 2857-89-8074-000 TAX RELEASES PARCEL WAS RETIRE	09/29/2025 F05	12172	0	F05 G01 SWF	805.21 3,012.41 115.00
	BOONE, NC 28607						3,932.62
1646237	THOMAS, WM EARL LIFE ESTATE THOMAS, MARSHA LIFE ESTATE 517 ISENHOUR RD	RE 2025 29356 1993-25-9994-000 TAX ADJUSTMENTS	09/11/2025 F06	12148	0	F06 G01	43.57 277.13
	ZIONVILLE, NC 28698						320.70
1576044	TOWN OF BLOWING ROCK PO BOX 47	RE 2025 32571 2817-17-2491-000 TAX RELEASES	09/29/2025 C03	12167	0	G01	957.50
	BLOWING ROCK, NC 28605-0047	PARCEL IS EXEMPT I	DUE TO OWNERS				
1576044	TOWN OF BLOWING ROCK PO BOX 47	RE 2025 32576 2817-17-3207-000 TAX RELEASES	09/29/2025 C03	12168	0	G01	684.34
	BLOWING ROCK, NC 28605-0047	PARCEL IS EXEMPT I		HIP.			



OWNER NAME AND ADDRESS		CAT YEAR BIL PROPERTY REASON	L EFF DATE JUR	REF NO	VALUE	CHARGE	AMOUNT
1537134 TREXLER, RALPH DONALD I TREXLER, LINDA H 5377 PEORIA RD VILAS, NC 28692-9421	R	RE 2025 2110 1954-12-0990-000 TAX ADJUSTMENTS SENIOR EXEMPTION		12149	0	F04 G01	33.35 212.10 2 245.45
1306109 VANDERBILT, CHARLES H A 107 BROWNSTONE LN BANNER ELK, NC 28604	AND CAROL	RE 2025 1652 1941-32-7108-000 TAX ADJUSTMENTS SENIOR EXEMPTION		12152 ULATE	0	G01	573.35
1171255 WATAUGA COUNTY 814 WEST KING ST SUITE 205 BOONE, NC 28607		RE 2025 5032 2920-29-5940-000 TAX RELEASES PARCEL IS EXEMPT		12180 SHIP.	0	C02 G01	1,912.80 1,520.68 3,433.48
1508018 WATSON, MARCELLA JANE 129 SNOWDRIFT LANE BOONE, NC 28607-6942		RE 2025 5120 2921-52-4861-000 TAX ADJUSTMENTS SENIOR EXEMPTION		12150 ULATE	0	F02 G01	53.85 285.40 339.25
DETAIL SUMMARY	COUNT: 61	RELEASE	S - TOTAL		3,600		82,684.40



RELEASES - CHARGE SUMMARY FOR ALL CLERKS

YEAR CAT CHARGE		AMOUNT
2025 RE C02 2025 RE F01 2025 RE F02 2025 RE F05 2025 RE F06 2025 RE F06 2025 RE F07 2025 RE F08 2025 RE F09 2025 RE F10 2025 RE F10 2025 RE F11 2025 RE F11 2025 RE SWF 2025 PP C02 2025 PP F01 2025 PP F02 2025 PP F02 2025 PP F02 2025 PP F07 2025 PP G01 2025 PP G01 2025 PP G01 2025 PP MS1	BOONE RE FOSCOE FIRE RE BOONE FIRE RE BEAVER DAM FIRE RE STEWART SIMMONS FIRE RE ZIONVILLE FIRE RE COVE CREEK FIRE RE SHAWNEEHAW FIRE RE BLOWING ROCK FIRE RE BLOWING ROCK FIRE RE BLOWING ROCK FIRE RE BLOWING ROCK FIRE RE SANITATION USER FEE BOONE PP FOSCOE FIRE LATE LIST BOONE FIRE PP BOONE FIRE LATE LIST COVE CREEK FIRE PP COVE CREEK FIRE LATE LIST BLOWING ROCK FIRE LATE LIST WATAUGA COUNTY PP WATAUGA COUNTY LATE LIST BOONE MUNICIPAL SERV DIST PP SANITATION USER FEE	1,912.80 149.95 1,180.59 33.35 4,748.28 393.42 479.20 54.50 224.17 1,616.67 944.75 1,367.90 66,433.83 2,530.00 152.52 2.75 .03 .03 1.55 .16 2.21 132.70 32.72 60.05 230.00
	2025 TOTAL	82,684.40
	SUMMARY TOTAL	82,684.40



#### RELEASES - 09/01/2025 TO 09/30/2025

RELEASES - JURISDICTION SUMMARY FOR ALL CLERKS

JUR	YEAR CHARGE		AMOUNT
C02 C02	2025 C02 2025 G01	BOONE RE WATAUGA COUNTY RE	1,912.80 1,520.68
		CO2 TOTAL	3,433.48
C03 C03	2025 G01 2025 SWF	WATAUGA COUNTY RE SANITATION USER FEE	3,850.67 230.00
		CO3 TOTAL	4,080.67
C04	2025 G01	WATAUGA COUNTY RE	122.75
		CO4 TOTAL	122.75
C05 C05	2025 G01 2025 SWF	WATAUGA COUNTY RE SANITATION USER FEE	3,439.96 115.00
		C05 TOTAL	3,554.96
F01 F01 F01 F01	2025 F01 2025 F01L 2025 G01 2025 G01L	FOSCOE FIRE RE FOSCOE FIRE LATE LIST WATAUGA COUNTY RE WATAUGA COUNTY LATE LIST	149.95 2.75 953.68 17.49
		F01 TOTAL	1,123.87
F02 F02 F02 F02 F02	2025 F02 2025 F02L 2025 G01 2025 G01L 2025 SWF	WATAUGA COUNTY LATE LIST	1,180.89 .03 6,258.71 .16 460.00
		F02 TOTAL	7,899.79
F04 F04	2025 F04 2025 G01	BEAVER DAM FIRE RE WATAUGA COUNTY RE	33.35 212.10
		F04 TOTAL	245.45
F05 F05 F05	2025 F05 2025 G01 2025 SWF	STEWART SIMMONS FIRE RE WATAUGA COUNTY RE SANITATION USER FEE	4,748.28 17,764.11 115.00
		F05 TOTAL	22,627.39
F06 F06 F06	2025 F06 2025 G01 2025 SWF	ZIONVILLE FIRE RE WATAUGA COUNTY RE SANITATION USER FEE	393.42 2,502.18 345.00
		F06 TOTAL	3,240.60
F07 F07 F07 F07 F07	2025 F07 2025 F07L 2025 G01 2025 G01L 2025 SWF	COVE CREEK FIRE PP COVE CREEK FIRE LATE LIST WATAUGA COUNTY PP WATAUGA COUNTY LATE LIST SANITATION USER FEE	480.75 .16 3,057.57 .99 230.00

10



RELEASES - JURISDICTION SUMMARY FOR ALL CLERKS

JUR YEAR CHARGE	AMOUNT
F07 TOTAL	3,769.47
F08 2025 F08 SHAWNEEHAW FIRE RE	54.50
F08 2025 G01 WATAUGA COUNTY RE	346.62
F08 TOTAL	401.12
F09 2025 F09 MEAT CAMP FIRE RE	224.17
F09 2025 G01 WATAUGA COUNTY RE F09 2025 SWF SANITATION USER FEE	1,425.76 230.00
F09 TOTAL	1,879.93
F10 2025 F10 DEEP GAP FIRE RE	1,616.67
F10 2025 G01 WATAUGA COUNTY RE F10 2025 SWF SANITATION USER FEE	10,282.05 230.00
F10 TOTAL	12,128.72
F12 2025 F12 BLOWING ROCK FIRE RE	944.75
F12 2025 F12L BLOWING ROCK FIRE LATE LIST F12 2025 G01 WATAUGA COUNTY RE	2.21 6,008.61
F12 2025 G01L WATAUGA COUNTY LATE LIST	14.08
F12 2025 SWF SANITATION USER FEE	575.00
F12 TOTAL	7,544.65
FS1 2025 FS1 FOSCOE SERV DIST RE	1,367.90
FS1 2025 G01 WATAUGA COUNTY RE FS1 2025 SWF SANITATION USER FEE	8,699.83 230.00
FS1 TOTAL	10,297.73
MS1 2025 C02 BOONE PP	152.52
MS1 2025 G01 WATAUGA COUNTY PP MS1 2025 MS1 BOONE MUNICIPAL SERV DIST PP	121.25 60.05
MS1 TOTAL	333.82
MSI TOTAL	
SUMMARY TOTAL	82,684.40

#### **AGENDA ITEM 12:**

#### MISCELLANEOUS ADMINISTRATIVE MATTERS

#### A. Boards and Commissions

#### **MANAGER'S COMMENTS:**

#### <u>Volunteer Application for Advisory Committees – Phillip Hardin</u>

The County has received a volunteer application from Mr. Phillip Hardin of Banner Elk (Shawneehaw Township) expressing interest in serving on the Watauga County Board of Adjustment or the Watauga County Social Services Board.

Mr. Hardin is currently employed as the Economic Services Director for Buncombe County Health and Human Services and has worked in the social services field for 37 years, including time as a Department of Social Services Director. He also has significant volunteer experience, having served 12 years on the City of Asheville Board of Adjustment, where he was Chair for the last four years of his term.

At this time, there is one vacancy on the Watauga County Board of Adjustment and no vacancies on the Social Services Board.

This is a first reading; therefore, no action is required by the Board.

### Volunteer Application Watauga County Boards And Commissions

If you are a Watauga County resident, at least 18 years old, and willing to volunteer your time and expertise to your community, please complete the application below and click on Print Form. Please sign and mail or fax to:

Watauga County Commissioners' Office 814 West King Street, Suite 205 Boone, NC 28607 Phone: (828) 265-8000 Fax: (828) 264-3230

ome Address:			
ty:		Zip:	
elephone: (H)	(W)	(Fax)	
mail:			
lace of Employment:			
ob Title:			
In Order To Assure C	County wide Representation P	lease Indicate Your Town	ship Of Residence:
Bald Mountain	Stony Fork		
New River	Brushy Fork		Cove Creek
Beaver Dam	Meat Camp		○ Shawneehaw
Blue Ridge	○ Blowing Rock		C Laurel Creek
Elk	North Fork		○ Boone
100 P	n, Please Indicate If You Live		
<u> </u>	father Community		s Historic District
Howards Creel			reek Watershed
Coduitorios	w River Watershed	C Extraterrito	nai Alga
We Ask Your Help In Following Questions	Assuring Diversity Of Membe	rship By Age, Gender, An	d Race, By Answering T
Gende	r	Ethnic Bac	kground
		African American	Hispanic
C Female		Caucasian	Other
		Native American	
Please List (In Order Of P	Preference) The Boards/Comm	nissions On Which You W	ould Be Willing To Serve
	****		
,			
2.			

# Volunteer Application Watauga County Boards And Commissions (Continued)

	Please list	any work, voluntee	er, and/or other exper	ience you would like	to have considered i	n the review of your a	pplication.
Work Experience:							
Volunteer Experience:							
Other Experience:							
Other Comments:							
	Signature:	Phillip	Hardin Print Form	 ] [	Dat Reset Form	e:	

175

#### **AGENDA ITEM 13:**

#### **BREAK**

#### **AGENDA ITEM 14:**

#### **CLOSED SESSION**

Attorney-Client Matters – G.S. § 143-318.11(a)(3) Land Acquisition – G.S. § 143-318.11(a)(5) Personnel Matters – G.S. § 143-318.11(a)(1)





# **PUBLIC COMMENT**

Watauga Board of County Commissioners

#### **OCTOBER 21, 2025**

#### WATAUGA COUNTY BOARD OF COMMISSIONERS PUBLIC COMMENT RULES

At the April 18, 2023, Watauga County Board of Commissioners meeting the Board amended the policy for public comment before the Board as follows:

In accordance with North Carolina General Statutes 160A-81.1, the Watauga County Board of Commissioners establishes the following policy and rules regarding Public Comment.

- The Board does hereby establish a time period of up to sixty (60) minutes, for an open forum, at the beginning of each regular meeting to hear citizen comments.
- Persons who wish to speak must register on the sign-up sheet located on the information desk outside the meeting room. Sign-up sheets will be available one hour prior to the start of each meeting.
- Speakers shall provide their name and address at the start of their comments.
- Each speaker is allocated up to three (3) minutes to speak. No public comment period shall extend beyond one (1) hour. The Chair reserves the right to reduce the time limitation for individual speakers in order to meet the one (1) hour time limit and as necessary for efficient conduct of business.
- A speaker may not share or relinquish any remaining time they have not used to another speaker and shall only be allowed to speak once during the public comment period.
- Speaker substitutions at the meeting are not allowed.
- Comments are to be directed to the Board as a whole. The forum is intended to provide the Board of Commissioners an opportunity to hear citizens. It is not intended to subject the Board to answering impromptu questions. Citizens will be expected to be civil in their language and presentation and not to engage in slander or name-calling.
- Speakers shall refrain from personal attacks and/or threats directed towards County staff, elected Board members, or members of the public. Insults, profanity, use of vulgar language or gestures, or other inappropriate behavior are not allowed.
- Speakers shall limit their comments to matters that are germane to, or within the jurisdiction of the Watauga County Board of Commissioners.
- Speakers shall address the Board with any, and all public comments. Comments, questions, jeering, or other interruptions from the audience are not allowed. Speakers shall likewise not address or respond to members of the audience.
- The Chair, or presiding officer, has the authority to enforce the Rules of Decorum. Failure to obey these Rules may result in the forfeiture of the remaining speaking time and possible criminal charges. Individuals who engage in egregious or repeated violations may be asked to leave the meeting.
- During the open forum, speakers should not discuss any of the following:
  - a. Matters which concern the candidacy of any person seeking public office, including of the person addressing the Board.
  - b. Matters in current or anticipated litigation.
  - c. Advertising or promoting the sale of products, services, or private enterprise.
  - d. Promoting any contest or lottery.

111

#### SPEAKER LIST

PLEASE CLEARLY PRINT YOUR NAME.

BY PRINTING YOUR NAME BELOW, YOU ACKNOWLEDGE THAT YOU HAVE READ, UNDERSTOOD, AND AGREE TO ABIDE BY THE RULES OUTLINED ABOVE.

#### PLEASE STATE YOUR NAME BEFORE SPEAKING.

1. Halker Store	5
2. BRIAN JUNEAU	6.
3. Linda Byrd	7.
4.	8.



JOSH STEIN • Governor

DEVDUTTA SANGVAI • Secretary

LISA TUCKER CAULEY • Division Director, Human Services

October 20, 2025

Social Workers of Watauga County c/o Tom Hughes, DSS Director 132 Poplar Grove Connector, Suite C Boone, North Carolina 28607

Dear Director Hughes (Tom),

Social Workers from Watauga County Department of Social Services sent a letter to the Secretary's office regarding their concern and frustration for situations involving children in foster care who do not have appropriate placements. Please share my response with them.

We recognize the growing behavioral health challenges facing many young people. While access to care is a concern for all, youth with complex and specialized behavioral health needs—particularly those in DSS custody—are especially at risk and often face the greatest barriers to getting the support they need. Leadership at the NC Department of Health and Human Services (NCDHHS) hears your concerns expressed in the letter dated September 22, 2025, and would like to share efforts currently in place or underway to expand placement resources for these youth.

The North Carolina General Assembly has made a historic \$835 million investment to be used to enhance various programs and services aimed at improving outcomes for children and their families. NCDHHS has committed \$80 million of the state's total \$835 million investment in behavioral health services towards children's complex behavioral health needs. Several strategic steps are being taken to expand access to higher-level treatment settings, including increasing the number of Level II and higher behavioral health beds across the state. With this funding, we will ensure that more children with behavioral health needs can stay in a home setting by making sure they receive the right services, and that those services are child-centered, trauma-informed, and high-quality.

Here are some of the key steps NCDHHS has taken:

#### **Enhanced Emergency Care**

- The Division of Social Services has appropriated \$5,575,000 in non-recurring funds, to be allocated towards the development of a new placement service, Enhanced Emergency Care.
- The purpose of an Enhanced Emergency Care (EEC) facility is to prevent children and youth from sleeping in inappropriate placements such as a DSS office. Placement in these facilities will ensure that children or youth without an identified placement can receive the psychological and behavioral treatment needed in a safe environment.
- We plan to have three facilities located across the state in the east, west and central regions.

Expansion of Crisis Services and Bed Capacity

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES . DIVISION OF SOCIAL SERVICES

LOCATION: 1915 Health Services Way, Raleigh NC 27607
MAILING ADDRESS: 2408 Mail Service Center
Raleigh, NC 27699-2410
www.ncdhhs.gov • Main Tel. (919) 527-6393

- 114 new beds have been added in community crisis centers, representing a 32% increase in capacity statewide.
- These beds are part of a broader effort to strengthen the behavioral health crisis response system, ensuring that individuals in crisis have a safe place to go for care.

#### Creation of Behavioral Health Urgent Care Facilities

- NCDHHS is establishing 12 new behavioral health urgent care centers, which will increase the state's capacity by more than 69%.
- These facilities are designed to divert individuals from emergency departments and provide timely, appropriate care, potentially reducing the need for inpatient hospitalization.

#### Targeted Investments for Children and Youth

- The \$80 million investment is being used to build a continuum of care for children, including inhome services and higher-level residential treatment options.
- This includes support for emergency placements and alternatives to inappropriate boarding in DSS offices, which often occurs due to a lack of available Level II or higher beds.
- Expansion of Community-based treatment programs, such as expanding Child First into 22 counties, as well as expanding training of mental health providers in evidenced-based treatment models.

#### Implementing a Child Welfare Trauma-Informed Assessment statewide in 2026

• Currently being developed by a partnership including various divisions of the NCDHHS, prepaid health plans, county social services, individuals with relevant experiences, and other experts.

#### **Emergency Placement Funds**

- These funds are intended to temporarily assist county departments of social services in addressing identified placement needs for children in the custody of the agencies who are awaiting a Medicaid leveled treatment placement. While children await the location of the placement, these funds can be used to prevent them from staying in a DSS office.
- This investment means fewer children boarding in DSS offices, more children in DSS
  custody living in a home setting appropriate for their behavioral health needs and potentially
  fewer emergency department visits or stays for children experiencing a behavioral health crisis.

#### Children and Families Specialty Plan (CFSP)

- Launching Dec. 1, 2025, the Children and Families Specialty Plan (Healthy Blue Care Together) is designed to improve how children and families served by the child welfare system access care.
- The plan includes coverage for home- and community-based services as well as outpatient therapy, inpatient treatment, crisis and therapeutic residential options for children
- A statewide, fully integrated care management system is critical to ensure children can access the right level of care for their needs, when and where they need it.

These initiatives reflect a comprehensive approach to not only increase the number of Level II and higher beds but also to ensure that individuals—especially children—receive care in the most appropriate and least restrictive settings possible.

At a more granular level, there are strategies that NCDHHS Regional Child Welfare Specialists engage to address children in Emergency Departments/DSS Buildings:

- Reviewing the Rapid Response Team process with all counties to include timely referrals and quality completion of the referral form that provides appropriate information.
- Staffing/Timelining with the county around reasons a placement has disrupted.

- Assessing if the county has a Placement Stability Standard Operating Procedure.
   The best option for youth in foster care is to preserve placements through supporting placement providers. Specialists assess how counties respond to resource parents when they have a complaint, how the complaint is escalated, and who addresses it. Specialists can offer Technical Assistance on stages of disruption. Data on placement stability from UNC Performance Management can be used to analyze trends to serve as a foundation for planning.
- Reviews of monthly foster care visits (MFCV) contact records to assess how the county assesses safety and risk and how this affects the child's placement stability.
- Encouraging county leadership to reach out to LME/MCO leadership to discuss placements.
- Guiding county practice such as entering into contracts with private agencies to reserve beds/placements for crisis situations.
- Reviewing the process for locating, identifying and engaging kinship at very early stages. Training such as KinnectU or TA on kinship recruitment is available.
- Assessing the number of licensed foster parents each county has and evaluating their diligent recruitment and retention plan.
- Providing information on interventions such as Permanency Roundtables and encouraging usage for cases that have been opened for an extended period.

While there is no single solution to the problem of placement disruptions for child welfare involved youth, NC DHHS is working diligently to address the issue. Our goal is to ensure that children with behavioral health needs receive suitable, essential, child-centered, trauma-informed, and high-quality services, enabling as many children as possible to either remain in or return to a home setting.

Thank you for reaching out to DHHS to address your concerns and offer ideas for solutioning. We appreciate the important work you do each day on behalf of Watauga County residents. Your input is important and will be used to guide continued efforts to address the needs of the children we are charged to protect and serve.

Sincerely,

Donna F. Fayko

Deputy Director for Child Welfare Operations

Cc: Michael Leighs, Deputy Secretary for Opportunity and Wellbeing Lisa Tucker Cauley, Division Director, Human Services Adrian W. Daye, Deputy Director for Child Welfare Practice William "Ben" Rose, Lead Regional Director Meredith Houchins, Interim Section Chief for County Operations

# AGENDA ADDENDUM WATAUGA COUNTY BOARD OF COMMISSIONERS

TUESDAY, OCTOBER 21, 2025 AT 5:30 PM

#### **AGENDA ITEM 12:**

#### MISCELLANEOUS ADMINISTRATIVE MATTERS

B. Recommended Contract Award for Employee Dental and Life Insurance

#### **MANAGER'S COMMENTS:**

Updated renewal rates were received for dental insurance benefits. The initial renewal rate received from Cigna for dental insurance was a 15.5% increase. Further negotiations and analysis of additional claims reduced the increase to 8%, however, there was a network change with Cigna that would negatively impact employees, necessitating additional bids and further negotiations. United Healthcare provided a quote with the same dental plan structure without major changes to benefits at a 6.9% increase, including an additional 2% reduction in the medical renewal, from 14.4% to 12.1% increase, providing a savings of approximately \$74,000.

Further clarification was also received from Mark III Employee Benefits regarding The Standard Insurance Company for basic and voluntary life insurance. The Standard voluntary life insurance benefits were proposed to be level with no changes to plan benefits or premiums, but additional information received included an increase in basic life insurance benefits provided by the County to all regular employees. Due to this change, staff requested further negotiations through the bid process, secured a proposal from MetLife for basic and voluntary life insurance at the current rate with no increase in premiums or major plan changes, and a three (3) year rate lock.

Staff recommends United Healthcare for dental insurance, with a 6.9% rate increase for the 2026 plan year, and MetLife for basic and voluntary life insurance benefits with no change to current premiums and a three (3) year rate lock.

Adequate funds have been budgeted to cover the renewal rates. Board action is required.



# PLAN UPDATE

2026 Medical and Dental Renewal



October 14, 2025

## 2026 Dental Renewal Options



		CIGNA 2025 Revised Renewal w/ Dental		UHC 2026 Proposal Fully Insured + Performance Funding Revised			UHC 2026 Proposal Fully Insured + Performance Funding Revised With Dental		
Plan Design		HSA		HSA			HSA		
		In-Network		In-Network			In-Network		
Primary Care Physician		Deductible/0%		Deductible/0%			Deductible/0%		
Specialist Physician	16	Deductible/0%		Deductible/0%			Deductible/0%		
Well Baby Care		100%		100%			100%		
Immunizations/Injections		100%		100%			100%		
Physical Exams		100%		100%			100%		
Pap Smears/Mammograms		100%		100%			100%		
Deductible		\$2,500		\$2,500			\$2,500		
Deductible - Family Maximum		\$5,000		\$5,000			\$5,000		
Coinsurance Maximum - Individual		100%		100%			100%		
Coinsurance Maximum - Family		100%		100%			100%		
Out of Pocket Maximum - Individual		\$2,500		\$2,500			\$2,500		
Out of Pocket Maximum - Family		\$5,000		\$5,000			\$5,000		
In-patient Hospital Services		Deductible/100%		Deductible/100%			Deductible/100%		
Out-patient Hospital Services		Deductible/100%		Deductible/100%			Deductible/100%		
Urgent Care		Deductible/100%		Deductible/100%			Deductible/100%		
Emergency Room		Deductible/100%		Deductible/100%			Deductible/100%		
Pharmacy		Deductible/100%		Deductible/100%			Deductible/100%		
Lifetime Maximum		Unlimited		Unlimited			Unlimited		
Health Savings Account - County									
Funded		\$1,000		\$1,000			\$1,000		
MUST MEET WELLNESS CRITERIA					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			2-36-4-1-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-	
Active Monthly Rates									
Employee Only	254	\$949.84	\$241,259.36	\$1,086.84	\$276,057.36	114.4%	\$1,065.10	\$270,535.40	112.1%
Employee/Spouse	2	\$2,063.12	\$4,126.24	\$2,360.70		114.4%	\$2,313.49	\$4,626.98	112.1%
Employee/Child(ren)	17	\$1,413.39	\$24,027.63	\$1,617.25		114.4%	\$1,584.91	\$26,943.47	112.1%
Employee/Family	0	\$2,916.08	\$0.00	\$3,336.67	\$0.00	114.4%	\$3,269.94	\$0.00	112.1%
Monthly Cost	273		\$269,413.23		\$308,272.01	114.4%	, , , , , , , , , , , , , , , , , , , ,	\$302,105.85	112.1%
Annual Cost			\$3,258,458.76		\$3,724,764.12			\$3,650,770.20	
					114.3%			112.0%	
				Wellness 10K			Wellness 10K		

## 2026 Dental Renewal Options



		Cigna		Cigna		Cigna		Ameritas	,	Ameritas		UHC Dental	
		Passive PPO		Passive PPO		PPO MCR2		PPO		PPO		PPO	
						2026 Revised							
		Current		2026 Renewal		Renewal		2026 Renewal		2026 Renewal		2026 Renewal	
		Preventive		Preventive		Preventive		Preventive		Preventive		Preventive	
Exams		100%		100%		100%		100%		100%		100%	
Cleanings		100%		100%		100%		100%		100%		100%	
X-Rays		100%		100%		100%		100%		100%		100%	
Fluoride Treatment		100%		100%		100%		100%		100%		100%	
Space Maintainers		100%		100%		100%		100%		100%		100%	
Sealants		100%		100%		100%		100%		100%		100%	
		Basic		Basic		Basic		Basic		Basic		Basic	
Fillings - Amalgams &													
Composites		80%		80%		80%		80%		80%		80%	
Simple Extractions		80%		80%		80%		80%		80%		80%	
Surgical Extractions		80%		80%		80%		80%		80%		80%	
Endodontics		80%		80%		80%		80%		80%		80%	
Periodontics		80%		80%		80%		80%		80%		80%	
Anesthesia		80%		80%		80%		80%		80%		80%	
		Major		Major		Major		Major		Major		Major	
Crowns/Inlays/Onlays		50%		50%		50%		50%		50%		50%	
Dentures		50%		50%		50%		50%		50%		50%	
Fixed Bridges		50%		50%		50%		50%		50%		50%	
Implants		50%		50%		50%		50%		50%		50%	
										3070		3070	
Annual Deductible (Does not		\$50 - Individual		\$50 - Individual		\$50 - Individual		\$50 - Individual		\$50 - Individual		\$50 - Individual	
apply to preventive services)		\$150 - Family		\$150 - Family		\$150 - Family		\$150 - Family		\$150 - Family		\$150 - Family	
Annual Maximum		\$1,500		\$1,500		\$1,500		\$1,500		\$1,500		\$1,500	
Reimbursement Allowance		, , , , ,		7-,		72,000		42,000		<b>\$2,500</b>		<b>71,300</b>	
Monthly Premium													
Employee Only	225	\$32.38	\$7,285.50	\$37.40	\$8,415.00	\$34.97	\$7,868.25	\$36.76	\$8,271.00	\$37.24	\$8,379.00	\$34.60	\$7,785.00
Employee + Spouse	29	\$87.04	\$2,524.16	\$100.53	\$2,915.37	\$94.00	\$2,726.00	\$98.80	\$2,865.20	\$100.12	\$2,903.48	\$93.01	\$2,697.29
Employee + Child(ren)	28	\$87.04	\$2,437.12	\$100.53	\$2,814.84	\$94.00	\$2,632.00	\$98.80	\$2,766.40	\$100.12	\$2,803.36	\$93.01	\$2,697.29
Employee + Family	11	\$144.74	\$1,592.14	\$167.17	\$1.838.87	\$156.32	\$1,719.52	\$164.32	\$1,807.52	\$166.48	\$1,831.28	\$154.66	\$2,604.28
Total Monthly Premium	11	ý±77./7	\$13,838.92	<b>Ψ107.17</b>	\$15,984.08	7130.32	\$14,945.77	\$10 <del>4</del> .52	\$1,807.32	\$100.46	\$1,831.28	\$154.00	\$1,701.26
. cca. Moneny i remain			Ç10,000.02		713,304.00		717,575.77		713,710.12		713,317.12		\$14,767.83
Increase in Premium					115.5%		108.0%		113.5%		115.0%		106.9%
Rate Guarantee				1 year	113.370	1 year	100.076	1 year	113.5/6	2 year	115.0%	1.,,,,,,,	106.9%
nate Guarantee	L			1 year		1 year		ı year		2 year		1 year	



# PLAN UPDATE

2026 Term Life Renewal



October 21, 2025

## 2026 Term Life Options



		The Standard - Current		The Standard - Renew	al	MetLife		
	Current Volume	Monthly Rate per \$1,000		Monthly Rate per \$1,000		Monthly Rate per \$1,000		
Basic Life	\$17,293,750	\$0.085	\$1,469.97	\$0.160	\$2,767.00	\$0.078	\$1,348.91	
Basic AD&D	\$17,293,750	\$0.015	\$259.41	\$0.015	\$259.41	\$0.022	\$380.46	
		·		·		,	· · · · · · · · · · · · · · · · · · ·	
Total Monthly Premium			\$1,729.38		\$3,026.41		\$1,729.38	
Total Annual Premium			\$20,752.50		\$36,316.88		\$20,752.50	
Annual Increase			N/A		\$15,564.38		\$0.00	
		1 X salary rounded to the higher		1 X salary rounded to the higher	<b>420,00</b> 1100	1 X salary rounded to the higher	70.00	
Basic Life Benefit		\$1,000, to a maximum of \$160,000		\$1,000, to a maximum of \$160,000		\$1,000, to a maximum of \$160,000		
Waiver of Premium		to SSNRA		to SSNRA		to age 70		
Accelerated Benefit Option		Included		Included		Included		
Conversion		Included		Included		Included		
Portability		Included		Included		Included		
		to 65% at age 65, 50% at age 70		to 65% at age 65, 50% at age 70		to 65% at age 65, 50% at age 70		
Age Reductions		and 25% at age 75		and 25% at age 75		and 25% at age 75		
Voluntary Life	Age	and 2070 at age 70		and 2370 de age 73		and 25% at age 75		
Employee/Spouse	under 25	\$0.09		\$0.09		\$0.09		
Based on Ee age	25 - 29	\$0.09		\$0.09		\$0.09		
based on Le age	30 - 34	\$0.10		\$0.10		\$0.10		
	35 - 39	\$0.12		\$0.12		\$0.10		
	40 - 44	\$0.12		\$0.12		\$0.12		
	45 - 49	\$0.18		\$0.18				
	50 - 54	\$0.53				\$0.31		
	55 - 59	\$0.55		\$0.53		\$0.53		
	60 - 64			\$0.81		\$0.81		
	65 - 69	\$1.19		\$1.19		\$1.19		
		\$1.86		\$1.86		\$1.86		
	70 - 74	\$3.67		\$3.67		\$3.67		
	75 +	\$3.67		\$3.67		\$3.67		
Employee Voluntary Life Benefit		Increments of \$5,000 to the lesser		Increments of \$5,000 to the lesser		Increments of \$5,000 to the lesser		
5 1 V 1 1 1 1 1 C 1 1		of 8 X salary or \$300,000		of 8 X salary or \$300,000		of 7 X salary or \$300,000		
Employee Voluntary Life Guaranteed Issue		\$200,000		\$200,000		\$200,000		
		Increments of \$5,000 up to		Increments of \$5,000 up to		Increments of \$5,000 up to		
Spouse Voluntary Life Benefit		\$150,000, not to exceed 50% of Ee		\$150,000, not to exceed 50% of Ee		\$150,000, not to exceed 50% of Ee		
		amount		amount		amount		
Spouse Voluntary Guaranteed Issue		\$30,000		\$30,000		\$30,000		
Child Voluntary Coverage		live birth + - \$10,000 \$0.20 per \$1,000		live birth + - \$10,000 \$0.20 per \$1,000		\$1,000, \$2,000, \$4,000, \$5,000 or \$10,000 15 days to 6 mo \$1,000 \$0.128 per \$1,000		
Waiver of Premium		to SSNRA		to SSNRA		to age 70		
Accelerated Benefit Option		Included		Included		Included		
Conversion		Included		Included		Included		
Portability		Included		Included		Included		
Voluntary Age Reductions		Same as Basic Life		Same as Basic Life		None		
Grandfather current amounts		Yes		Yes		Yes		
Annual increases without EOI		N/A		N/A		No, one time open enrollment up		
Rate Guarantee		N/A		2 years		to GI for Ee, Sp and Ch		
nate Guarantee		I IV/A		z years		3 years	2	