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# GREAT Grant Mapping Tool Updates

## Updated/Added to Map

- ***Cherokee County*** - USDA Community Connect Award to Blue Ridge Mountain EMC
- ***Lenoir County*** - NTIA Broadband Infrastructure Program award – NC Global TransPark Authority
- ***Halifax County*** - AddressNC_v1 layer updated to include improved addresses

## Removed From Map

- ***Halifax County*** – GREAT Grant Awards to Cloudwyze
- ***Caswell County*** – GREAT Grant Awards to RiverStreet Network
- ***Duplin County*** – GREAT Grant Awards to Cloudwyze
- ***Edgecombe County*** – GREAT Grant Awards to Cloudwyze

# Application Description

This online mapping tool displays spatial data related to the 2022 Growing Rural Economies with Access to Technology (GREAT) grant program. This grant program is administered by the NC Broadband Infrastructure Office to expand access to broadband in underserved areas across the state. Broadband providers can use this online mapping tool to view eligible areas when submitting applications for grant funding to improve broadband access. Providers can select proposed addresses in this online mapping tool and export these locations to be included in their grant applications.

# Map Layer Descriptions

- *Previous GREAT Grant Awarded Address Locations and the Previous Great Grant Awarded Areas Layers*
  - The NC Growing Rural Economies with Access to Technology (GREAT) grant program funds the terrestrial deployment of broadband within unserved areas across the state. These datasets represent the awarded areas from each round of grant funding. Awards are based on data submitted by broadband providers. Specifically, in 2019 round 1 award locations were based on either census block or polygon area submittals; in 2020 round 2 award locations were based on parcel or polygon area submittals; and finally, in late 2020 and early 2021, round 3 award locations were based on either addresses or parcel area submittals.

- *AddressNC_v1*
  - AddressNC is the Statewide Address Dataset for North Carolina. This data represents the best available source to complete a statewide set of current address points. The data facilitates NC Broadband providers the means to compile, inventory, and submit locations of households and businesses proposed to be served per the NC Broadband Office Growing Rural Economies with Access to Technology (GREAT) Grant Program. Data is acquired through three different sources. 94 complete counties are sourced directly through the County Authoritative Provider submittal to the NC NextGen 911 Program (NG911). Wake County, Pitt County, and City of Greenville are provided as the best available maintained data as are portions of Robeson and Watauga (limited areas of Robeson and Watauga are provided through NG911). Bertie and Halifax are derived from parcel site addresses. Attributes for zip codes and postal towns are either provided as-is from the Authoritative Provider or derived from the national zip code boundary where not provided.
- *NC Broadband Community Survey Responses Layers*
  - This data is a filtered view of the NC Broadband Community Survey Response data which presents information gathered through the North Carolina Broadband Survey from communities across the state. It is updated daily with new data gathered from newly surveyed North Carolinians. This Survey data consists of data collected through three specific online surveys: 1) General Survey, 2) Farm Survey, and 3) Phone-based Internet Reporting Tool. For this mapping application, two filtered layers were created from the community surveys: 1) consisting of survey locations reporting speeds less than 25/3 as the *fastest available* and 2) consisting of survey locations reporting speed less than 25/3 but this *may not be the fastest speed available*. These two filtered layers are updated monthly.
- *FCC RDOF Auction 904 Phase I Results Layer*
  - In the Rural Digital Opportunity Fund Phase I auction (Auction 904), 180 bidders won $9.2 billion over 10 years to provide broadband to 5.2M locations in 49 states and the Commonwealth of the Northern Mariana Islands. This data outlines awarded census blocks in North Carolina. Award defaults as of 12/16/21 have been removed. ***These areas are INELIGIBLE for GREAT Grant funding.***
- *Federal Broadband Grant Award Areas Combined Layer*
  - Broadband grant award areas in North Carolina from the USDA ReConnect, Community Connect, and ARC Programs. These areas are ineligible for GREAT Grant awards. ***These areas are INELIGIBLE for GREAT Grant funding.***
- *Tier 3 Counties' Non-Rural Tracts from Legislation*
  - The Growing Rural Economies with Access to Technology (GREAT) Program Round uses US Treasury Coronavirus State and Local Fiscal Recovery Funds and Capital Project Funds to award grants for eligible projects in eligible economically distressed counties. Eligible Economically Distressed Counties are counties designated as a development Tier One or Tier Two area, as defined in G.S. 143B-437.08, or a rural census tract, as defined in G.S. 143B-

472.127(a)(2), located in any other county. Census tracts represented in this data are tracts in development Tier Three counties that have more than 500 population per square mile and do not qualify for the GREAT Grant funding. ***These areas are INELIGIBLE for GREAT Grant funding.***

- *FCC Less Than 25mb/s Download and 3mb/s Upload*
  - This data is a filtered view of the NC Broadband Block Summary data found on NC OneMap. Specifically, this layer summarizes FCC reported Broadband Service per census block using the available technologies deployed in each block to determine speeds and a count of the number of providers in each block. Blocks are then categorized into speed tiers based on the technical capabilities of each technology. In blocks that have multiple technologies available, the technology with the highest download and upload speed capabilities is listed as the technology and speed tier. Derived from December 2020 Form 477 data.
- *Census Blocks with NC Broadband Surveys reporting Less Than 25/3 Service*
  - This data is a filtered view of the NC Broadband Block Summary data found on NC OneMap. Specifically, this layer consists of Census blocks containing survey locations reporting survey locations reporting less than 25/3 as the fastest available service.
- *Parcel Boundaries*
  - An aggregated cadastral dataset for all 100 North Carolina counties designed to support and assist governmental agencies and others in resource management decisions.
- *Orthoimagery Latest*
  - Latest imagery collected for North Carolina.

# Viewing, Selecting and Downloading Locations

## *Viewing Address locations*

1. Access the Mapping application through the following link:
   https://nconemap.maps.arcgis.com/apps/webappviewer/index.html?id=72f01e944bde425ca07523d06a59c232

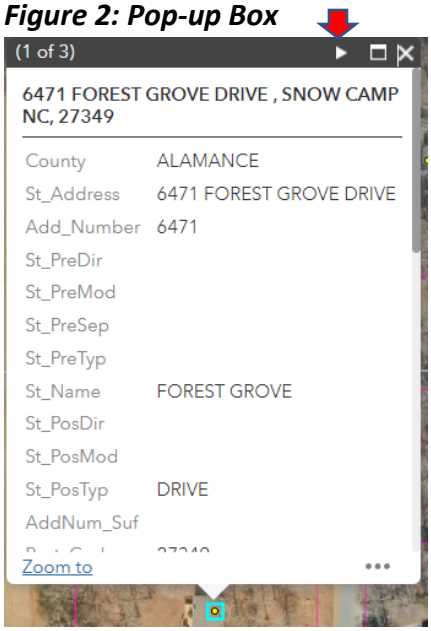
2. To view address information, zoom in on the map either by using the scroll button on your mouse or by clicking the plus button, , in the upper left corner of the map. To zoom to a specific address, enter the address in the 'Find address or place' box located in the upper right corner of the map and then hit either enter or the button to zoom to the address.

   Once you have zoomed in on the map, the address points (yellow dots) and parcels (outlined in pink) will appear (figure 1).

   ***Figure 1: Map of address points and parcels***

3. To view specific address information for a specific point, click on the point. The selected point will be highlighted in blue, and a pop-up box will appear (figure 2). To view information on additional layers located at that selected location, click the arrow button, , located in the upper right corner of the pop-up box (red arrow in figure 2).

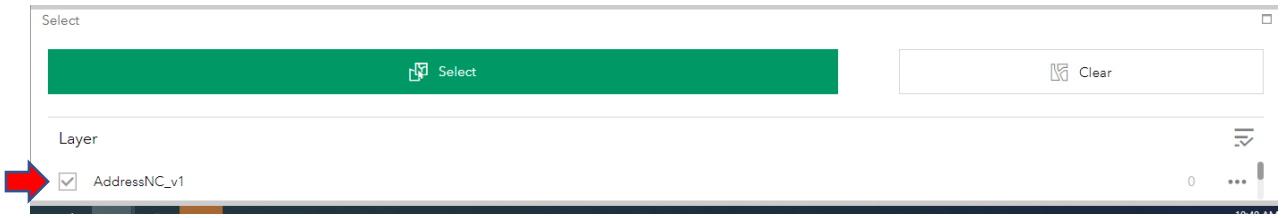
***Figure 2: Pop-up Box***




## *Selecting Address Points for Grant Submittal*

1. In the **Select Tool** (figure 3), check the box located next to the AddressNC layer (see red arrow)

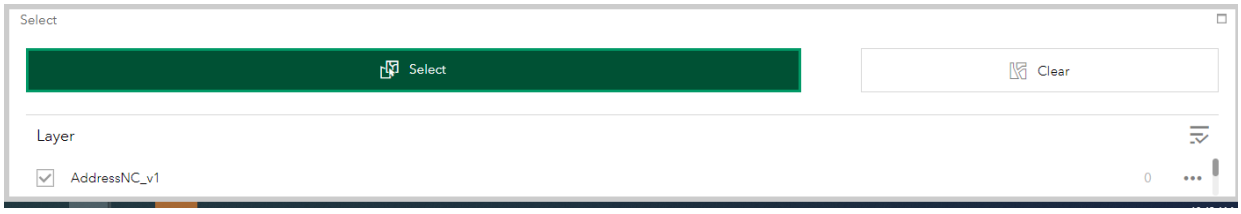
***Figure 3: Select Tool***




2. Click the green select button,

, to activate the selection tool. The selection button will turn dark green when it is activated or clicked (see figure 4).

***Figure 4: Activated Select tool***



3. In the map, click to create a polygon around Address points to select those locations. Double click to finish drawing your selection area and the selected address points will be highlighted in blue (figure 5).

**Figure 5: Selected address points**

4. To add to your selection without losing your previous selection, hold the shift button when drawing additional polygons (figure 6).

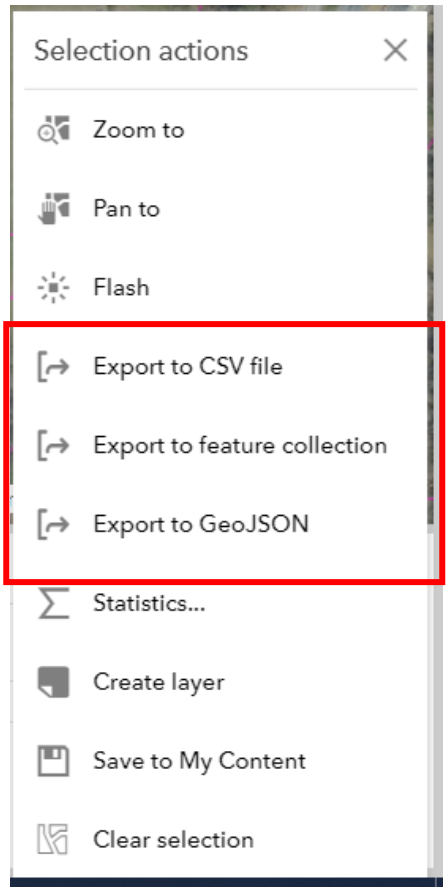
**Figure 6: Additional points selected**

5. Once all locations to be submitted have been selected, click the Button located in the bottom right corner of the select tool (see red arrow in figure 6) to view options for exporting the selection. *(**Note**: The number of selected locations is shown in the lower right corner of select tool (see red circle in figure 6.)*

**Figure 6: Activated Select Tool**

6. Once you click the Button, a list of exporting options appears (see red box in figure 7) Select **'Export to CSV file'** to download the selected points as a common delimited excel file.

**Figure 7: Export Options**

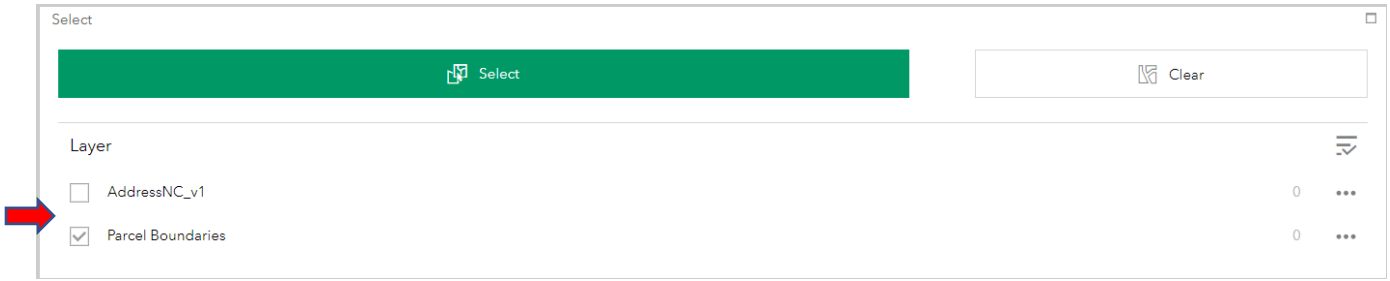


## *Selecting Parcels for Grant Submittal *

(* Parcels should ONLY be selected for locations that DO NOT have address points. *)

1. In the **Select Tool** (figure 8) check the box located next to the Parcel Boundaries (see red arrow). Make sure that the AddressNC_v1 layer is unchecked to ensure that only locations without address points are selected. Also make sure to clear pervious selections using the clear button

**Figure 8: Select Tool**




2. Click the green select button,

, to activate the selection tool. The selection button will turn dark green when it is activated or clicked (see figure 9)

**Figure 9: Activated Select tool**

3. In the map, click to create a polygon around the parcels to select those locations. Double click to finish drawing your selection area and the selected parcels will be highlighted in blue (figure 10).

**Figure 10: Selected parcels**

4. To add to your selection without losing your previous selection, hold the shift button when drawing additional polygons (figure 11).

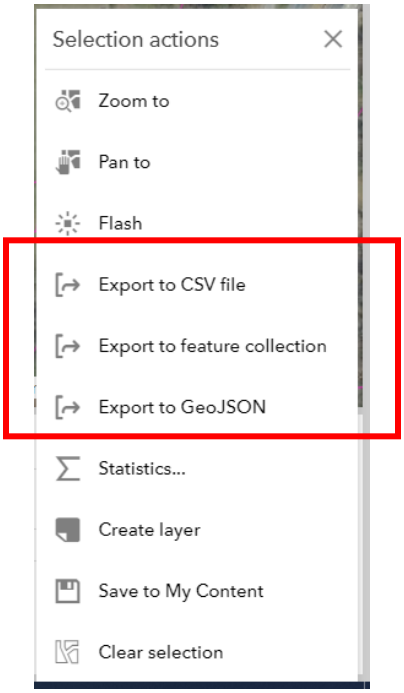
**Figure 11: Additional selected parcels**

5. Once all locations to be submitted have been selected, click the button located in the bottom right corner of the select tool (see red arrow in figure 12) to view options for exporting the selection. *(**Note**: The number of selected locations is shown in the lower right corner of select tool (see red circle in figure 12.)*

**Figure 12: Activated Select Tool**

6. Once you click the Button, a list of exporting options appears (see red box in figure 7 for specific options. Select **'Export to CSV file'** to download the selected points as a common delimited excel file.

**Figure 13: Export Options**

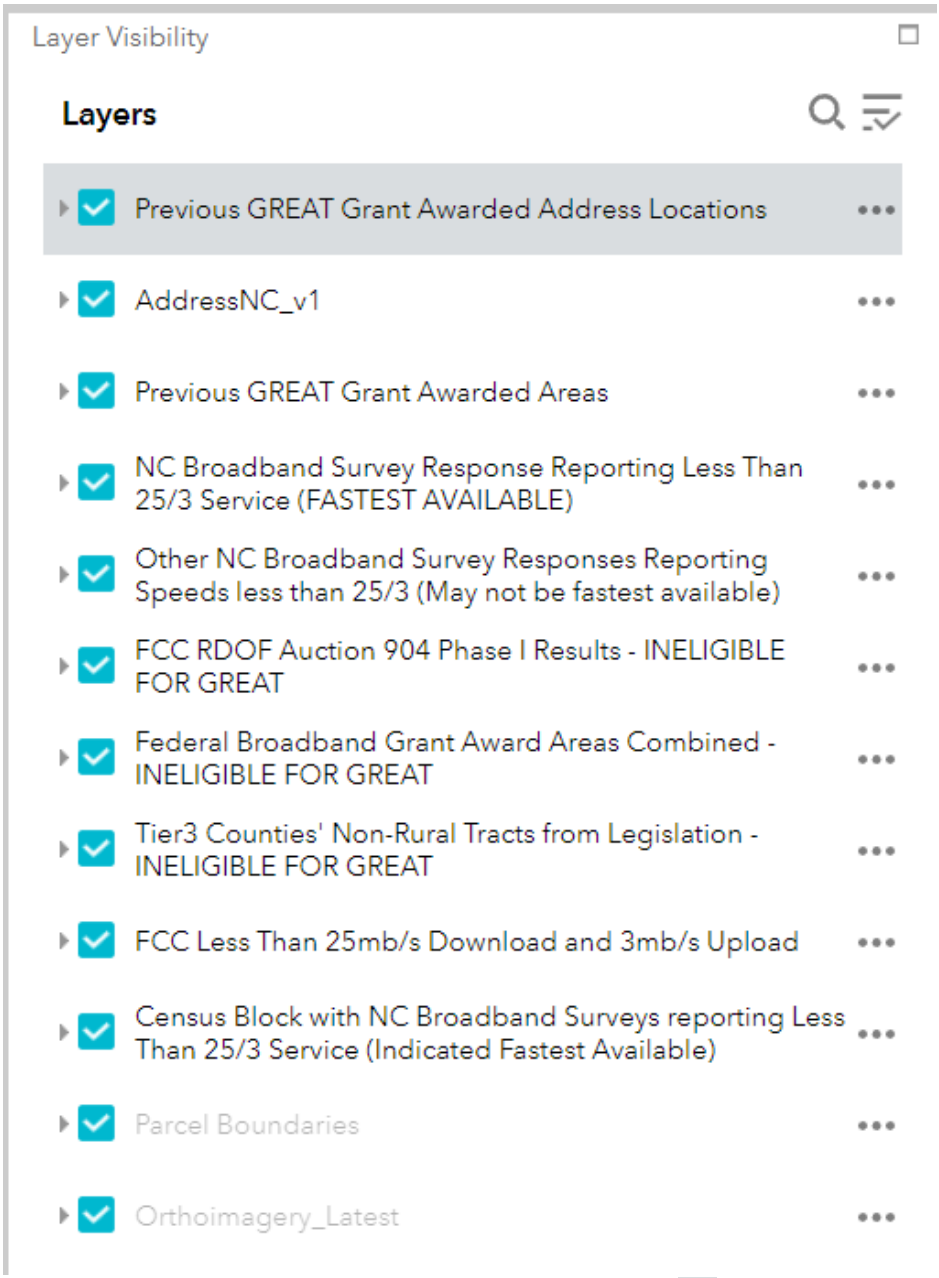


# Tool Tips

*Map Layers*

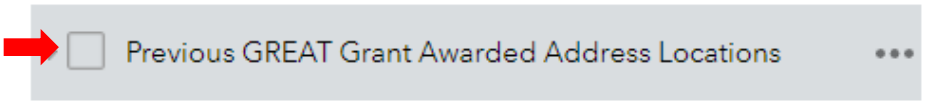
- Visibility of map layers is managed in the layers box located in the bottom left of the application (figure 14).

**Figure 14: Layer Visibility**




- To turn off layer visibility, click the blue box, , to the left of the layer to ***uncheck*** the box (figure 15, see red arrow).

**Figure 15**




- To view layer symbol, click the arrow to the left of the layer (figure 16, see red arrow). Figure 17 shows the layer symbol for Previous Great Grant layer, blue dot .

**Figure 16**

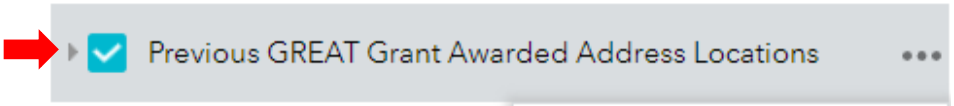
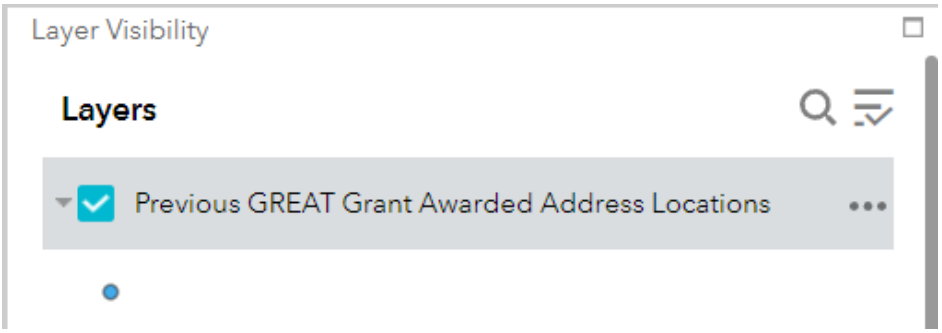
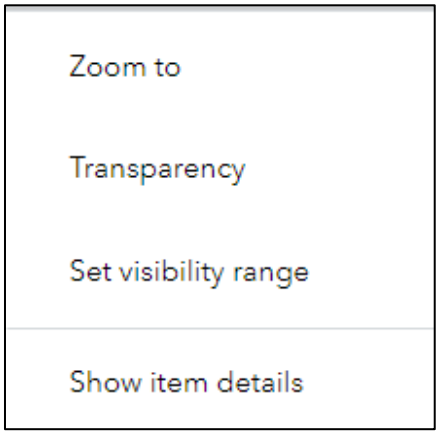



**Figure 17**




- To view more details about the layer, click the , to the right of the layer. Clicking the , opens a window with options to zoom, set transparency, set visibility range, and show item details (figure 18)

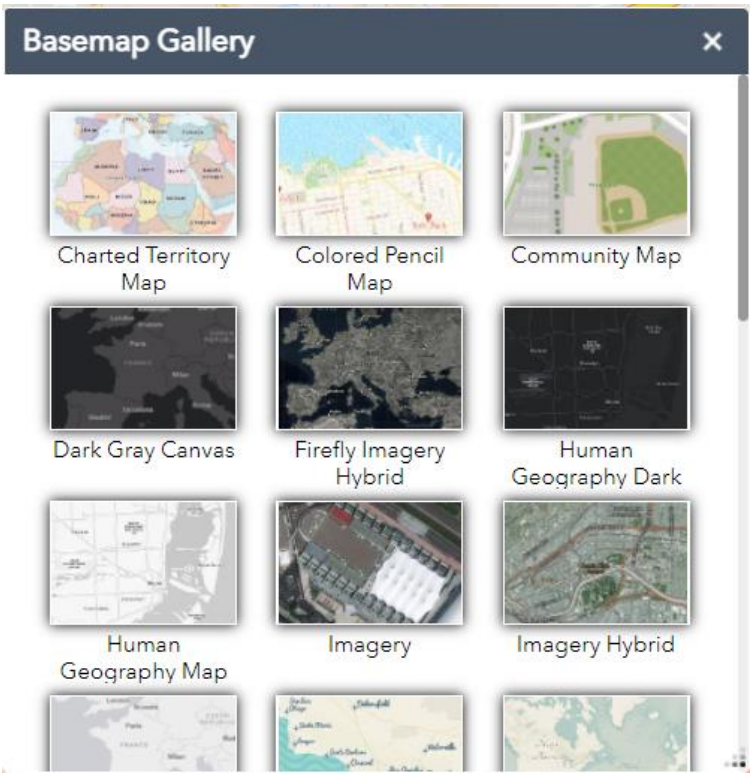
**Figure 18**



*Change Basemaps*

- To change basemaps, click the basemap , button in the upper left corner of the map. Click on a map in the Basemap Gallery, to select a new basemap (figure 19)

**Figure19: Basemaps**




*Additional Tool Tips*

- Clicking the button located in the upper right corner of each section, expands that section to full screen. Once expanded, clicking the  button in the upper right corner, minimized the section.
- Using the scroll bars, located along the right-hand edge of each section, allow you to view all the material in that section.
- When hoovering over the grey boundaries of each section, a double arrow appears and then by clicking and holding, you are able to expand or reduce that section depending on whether you move up or down.

## Resources

- Link to GREAT Grant Online Mapping Tool
  - https://nconemap.maps.arcgis.com/apps/webappviewer/index.html?id=72f01e944bde425ca07523d06a59c232
- Link to NC OneMap Broadband Page
  - https://www.nconemap.gov/pages/broadband
- Link to NC Broadband Website
  - https://www.ncbroadband.gov/
- For GREAT Grant mapping Questions email: broadbandmapping@nc.gov
- For general GREAT Grant Questions email: greatgrant@nc.gov