



**Forsyth County
Historic Resources
Commission**

Office Use Only

Case Number: COA2020-020

Historic Name: Belo House

NR/LHL#: 35/36

Application Accepted as Complete: 1/29/2020

**Certificate of Appr
Major Work**

Property Address: 455 S Main St

TAX PIN#: 6835-23-9783

Local Historic Landmark: Yes No Landmark Name: _____

Local Historic or Historic Overlay District: No Old Salem Bethabara West End

Name of Applicant/Contact: Salem Congregation/David Bergstone

Email Address: _____

Mailing Address: _____

Property Owner (if different from above): _____

Email Address: _____ Telephone Number (Daytime): _____

Mailing Address (Street or Box): _____

City: _____ State: _____ Zip: _____

Type of Work (Check all that apply):

- Relocation Exterior Alteration New Construction or Addition
 Demolition Landscaping/Site Alteration Interior Alteration (Local Historic Landmarks Only)

Is this an after-the-fact application (an application for a project that has been initiated or completed prior to obtaining the required COA from the Commission in violation of the UDO)? Yes No
 The application is not complete without the required fee.

Submission Requirements Checklist

The application along with all supporting information must be filed at least twenty-one (21) days prior to the next regularly scheduled meeting of the Forsyth County Historic Resources Commission. The Commission meets the first Wednesday of each month at 4:00 pm in the Public Meeting Room, Room 530, Fifth Floor, Bryce A. Stuart Municipal Building, 100 East First Street, Winston-Salem, NC.

- Sixteen (16) Copies of Application.** Submit sixteen (16) copies of the application and all supporting documentation. Additionally, a digital file of the application and supporting documentation, including photographs, is encouraged and may be submitted via email or in DVD format. Please contact Commission staff for details on digital submission information. Commission staff can review digital submission; however, a COA will not be processed until an original signed application is received.
- Detailed Description of Project.** Attach a detailed description of the activity for which you are seeking a Certificate of Appropriateness. Handwritten descriptions will not be accepted.
- Drawings, Samples, Site Plans, Specifications, Etc.** Submit plans, elevations, photographs, or other illustrative information necessary to explain the application. Such information may include detailed plans showing existing and proposed conditions; material samples or product information, descriptions of building materials, landscaping/site plans, photographs, etc. Architectural drawings, construction details, landscape plans, etc. must be legible, but printed on paper no larger than 11"x17". Refer to the reverse side of this form for further details on information to be submitted.
- List of Adjoining Property Owners** (not applicable for Local Historic Landmark properties). Submit a list of the names, mailing addresses, and tax block/lot numbers of property owners within 100 feet on all sides of the property, including across the street. This information may be obtained from the Forsyth County Tax Office at (336) 703-2300 or on the county's website at <http://www.forsyth.cc/tax/geodata.aspx>.

Note: Applications that do not provide adequate documentation or required materials will be noted as incomplete and may result in delays in the Commission's hearing of the application and/or denial of the request. Revisions made to the applications after the submittal deadline and prior to the Commission hearing may be continued to the following month's hearing. The Commission reserves the right to require additional information if it believes that the submission of such information is necessary to understand the nature of the intended activity.

Signature of Applicant/Contact: _____

Date: 1/29/2020

Description of Work at 455 S Main St (Belo House)

The residents are being offered inexpensive internet service through a local provider who uses direct line of sight connections to their facility downtown. From the middle of the Belo roof they can get necessary access. The receiver is small enough to be mounted to a vent pipe on the flat part of the Belo roof, so it would not be visible from any public street.

See attached specifications of the antenna to be used. It will be attached to an existing vent pipe and is about 10" in size. A single ethernet cable, would run inside the building or behind a downspout on the rear wall to the distribution connection in the lowest level mechanical room.

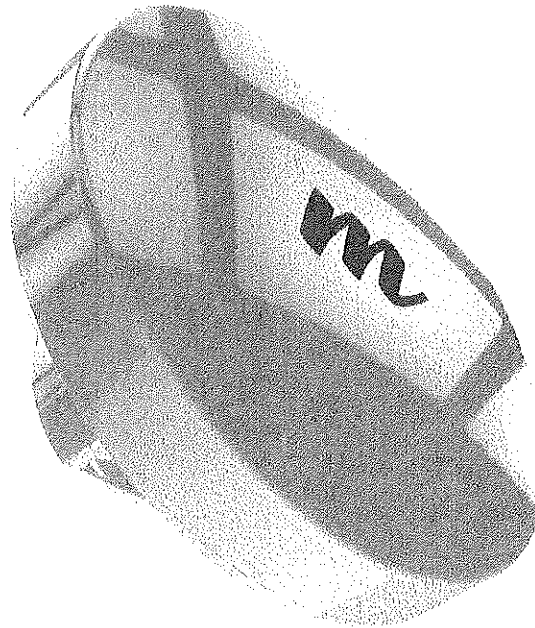
Roof of Belo House
Vents are 2-3' high.



Impress Your Clients

C5 Point-to-Multipoint Client Radio

4.9–6.2 GHz



The Mimosa C5 is a blazing fast and rugged endpoint client device for most deployment applications. Incorporating unique technology, the product is ideal for professionally installed suburban and rural Fixed Wireless applications.

Fiber Speeds to the Home

The C5 client device delivers the speed businesses and consumers need at a fraction of the cost of fiber to the premise.

TDMA GPS Sync Client

Upstream bandwidth and latencies are allocated on demand, enabling significantly higher overall upstream network bandwidth allocation.

Rugged and Affordable

Protection from harsh environments now comes at an affordable price. The C5 includes sealing gel and

a unique cable protector that easily accommodates unterminated or pre-terminated RJ-45 cable connectors.

Mounting Options Galore

As every installation is unique, the C5 client device is designed to be easily attached to specially designed, optional mounting accessories.

Compact and Powerful

Delivers incredible range with cutting-edge dual 45° slant polarization design and aperture efficiency of greater than 50%, all in the smallest design possible.

Technical Specifications

Contents

Included in the C5 radio box:

- C5 5 GHz Radio
- Pipe Clamp
- Weatherseal Boot
- Dielectric Grease
- Installation and Warranty Documentation

The C5 radio does not include a power injector or mounting hardware.

Performance

- **Max Throughput:**
500+ Mbps IP (866 Mbps PHY)
- **Wireless Protocols:**
WiFi Interop, Mimosa GPS Sync (TDMA)
- **Modes:**
Client Mode only

Radio Hardware

- **MIMO & Modulation:**
2x2:2 MIMO OFDM up to 256-QAM
- **Bandwidth*:**
20/40/80 MHz channels tunable in 5 MHz increments for GPS Sync; tunable to standard WiFi channels for WiFi Interop
- **Frequency Range:**
4900–6200 MHz restricted by country of operation (new US/FCC 5600-5650 support)
- **Max Output Power:** 20 dBm
- **Sensitivity (MCS 0):**
-87 dBm @ 80 MHz
-90 dBm @ 40 MHz
-93 dBm @ 20 MHz

Antenna

- **Gain:** 20 dBi
- **Beamwidth (3 dB):**
14° (azimuth and elevation)
- **Cross-Polar Isolation:** >20 dB
- **Polarization:**
Dual 45° slant polarization

Physical

- **Dimensions:**
Width: 153.31 mm (6.04")
Diameter: 260.33 mm (10.25")
- **Weight:**
0.72 kg (1.59 lbs)
- **Enclosure Characteristics:**
Outdoor UV-stabilized engineered polymer

- **Wind Survivability:**
200 km/h (125 mph)
- **Wind Loading:**
13.3 kg @ 160 km/h (29 lbs @ 100 mph)
- **Mounting:**
Single pole strap. Azimuth and Elevation adjustability only provided via J-Mount and FlexiMount elevation adjustment and hose clamp loosened rotation on the pole.

Power

Power supply is not included and must be ordered separately.

- **Max Power Consumption:** 7W
- **Power Input:**
48 VDC passive Power over Ethernet injectors (not included)
- **System Power Method:**
Passive PoE
- **PoE Power Supply:**
Passive POE compliant, 48-56 V Power over Ethernet supply (sold separately)

Environmental

- **Operating Temperature:**
-40°C to +55°C (-40°F to 131°F)
- **Operating Humidity:**
5 to 100% condensing
- **Operating Altitude:**
4,420 m (14,500') maximum
- **Shock & Vibration:**
ETS 300-019-2-4 class 4M5

Radio Features

- **Gigabit Ethernet:**
10/100/1000-BASE-T
- **Multi-User MIMO**:**
CPE is MU-MIMO capable
- **Management Services:**
Mimosa cloud monitoring and management; SNMPv2 & Syslog legacy monitoring; HTTPS; HTML 5 based Web UI
- **Smart Spectrum Management:**
Active scan monitors/logs ongoing RF interference across channels (no service impact); Dynamic auto-optimization of channel and bandwidth use
- **Security:**
WPA2 PSK & Enterprise 802.1x; Radius provisioning, COA, DM (from AS); 128-bit AES with hardware acceleration

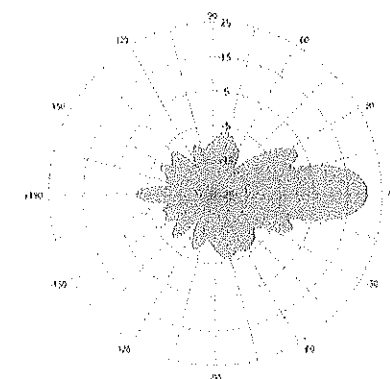
- **VLANs:**
Per subscriber VLAN; Q-in-Q, triple tagging; Management VLAN
- **QoS:**
Supports 4 pre-configured QoS levels

Networking Features

As the subscriber client in the Mimosa access ecosystem, the Mimosa C5 acts as a Layer 2 bridge, and coordinates directly with the Mimosa A5 for advanced Layer 2 network isolation and networking functions. An external subscriber router/gateway such as the Mimosa G2 or a properly configured 3rd party Wi-Fi router is recommended for terminating subscriber IP services. Refer to the Mimosa A5 for complete networking details and subscriber router configuration approaches.

- **Networking Protocols:**
Layer 2 MAC bridging. VLAN tagging features are only supported via the Mimosa A5 or external subscriber router. Routing features are not included directly in the C5.
- **Management Services:**
Mimosa cloud monitoring, SNMPv2 monitoring, Syslog, and Web UI
- **QoS:**
Supports 4 pre-configured QoS levels

* 4.9 GHz uses 20 MHz channel widths (US only, regulations vary by region)
** Enabled in future software release



C5 Azimuth Polar Plot

Mimosa Networks, a division of Airspan, is the global technology leader in wireless broadband solutions, enabling service providers to connect dense urban and hard-to-reach rural homes at a fraction of the cost of fiber. Mimosa Networks was acquired in 2018 by Airspan, the leading vendor of 4G/5G LTE small cells and backhaul technologies.