BRASSFIELD ELEMENTARY: PROJECT REVISIONS

11/12/2026

OUR COMMITMENT IN ACTION

✅ **Reduced the Height of the Tower from 195’ to 185’**
Lowered the proposed tower height by 10 feet to reduce visual appearance.

✅ **Relocated the Tower 20 Feet West**
Increased separation from school facilities in response to stakeholder feedback.

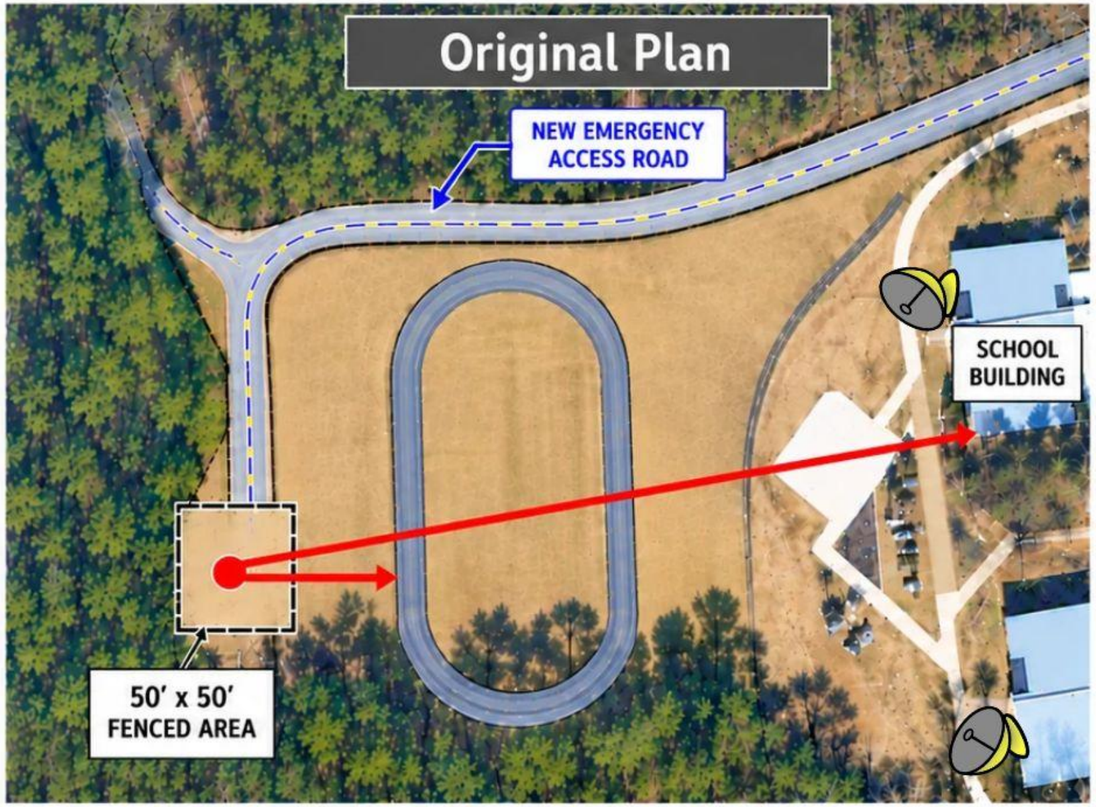
✅ **Minimized Fenced Compound Area**
Minimized the site footprint from 50’ x 50’, compared to 50’ X 30’ in the leased area.

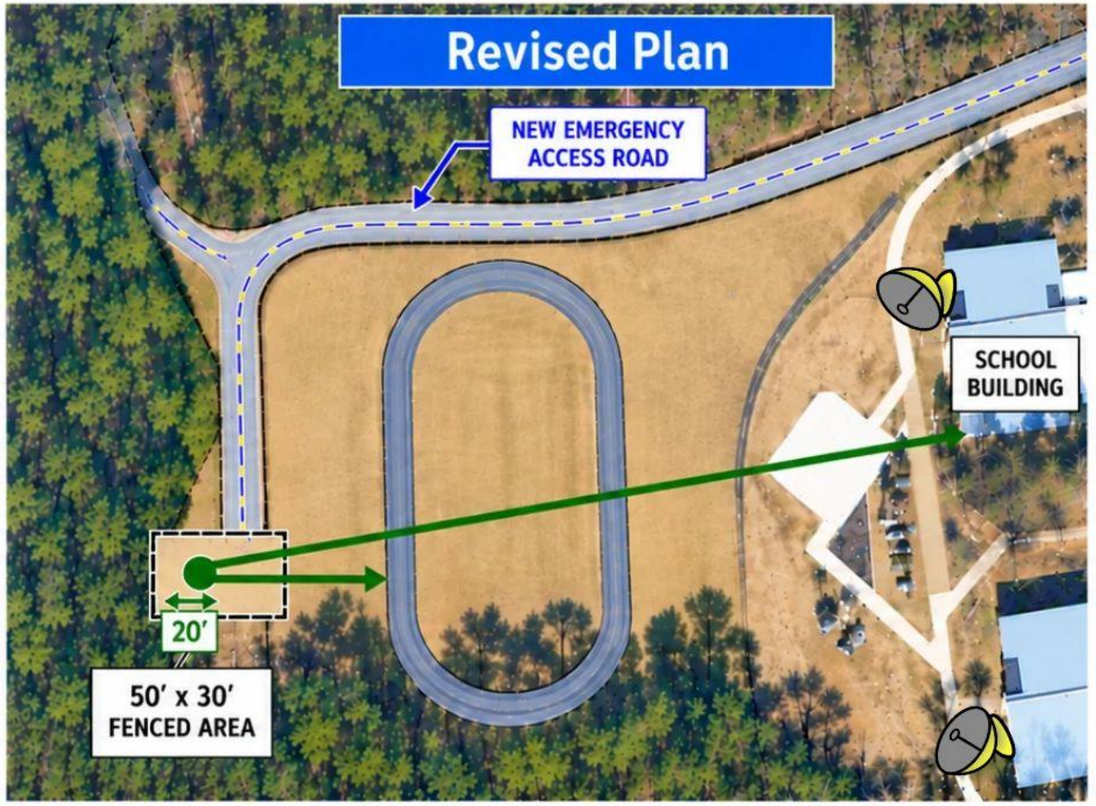
✅ **Invested in a Stealth "Faux Tree" Design**
APC-funded upgrade to a higher-cost monopine design to blend with the surrounding woods.

✅ **Added a Paved Emergency Access Road**
Building a paved access road that provides access to the rear of the school for improved emergency response.

✅ **Added Vegetative Screening**
Incorporated additional landscaping to screen the facility from neighboring properties.

✅ **Seal Coating Existing Track**
Seal coating the existing track while we are asphalting the emergency access road, regardless of whether the track is disturbed or undisturbed.





ORIGINAL PLAN:

- Tower (monopine) **centered** in 50' x 50' fenced area
- Distance to edge of track: **76.9 feet**
- Distance to school building: **407 feet**
- New emergency access road installed at top of site

REVISED PLAN:

- Tower (monopine) **shifted 20 feet to the left (back)** inside 50' x 30' fenced area
- Distance to edge of track: **96.9 feet**
- Distance to school building: **427 feet**
- New emergency access road installed at top of site

= 2 of the 4 existing WiFi antennas at the school

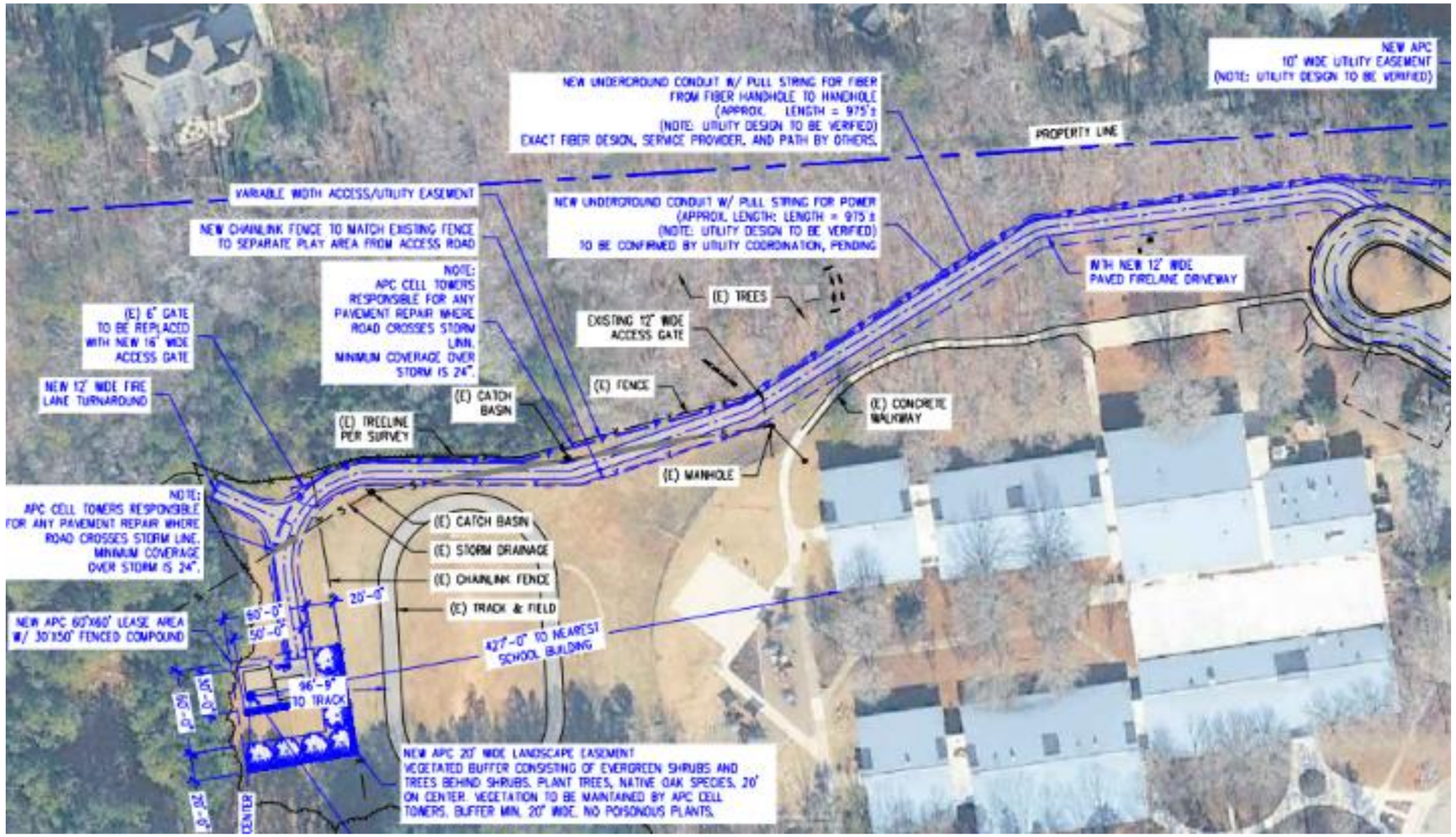
Project Overview & Site Location Summary

The proposed 185-foot telecommunications tower location was selected after evaluating environmental constraints, regulatory requirements, constructability considerations, and long-term operational needs.

LOCATION FACTORS CONSIDERED

- ENVIRONMENTAL STEWARDSHIP
- NATIVE SPECIES PROTECTION
- WETLAND AVOIDANCE
- WAKE CO. SETBACK REQUIREMENTS
- CONSTRUCTABILITY AND ACCESS

Revised Site Plan



Existing Storm Water Retention Pond

2005: Before Pond Installation



2007: After Pond Installation



A stormwater retention pond was installed at the rear of the property around 2007. The pond outfalls to the west, where adjacent wetlands contribute to the Cedar Creek watershed. Maintaining this established flow is important for managing stormwater runoff, reducing erosion and preventing localized flooding.

Environmental Constraints

Environmental Resources Limit Further Westward Relocation
The tower has been positioned as far toward the rear of the parcel as possible while avoiding impacts to environmentally sensitive resources. Building in environments with these types of constraints is heavily regulated by the Department of Environmental Quality.

Existing Site Constraints

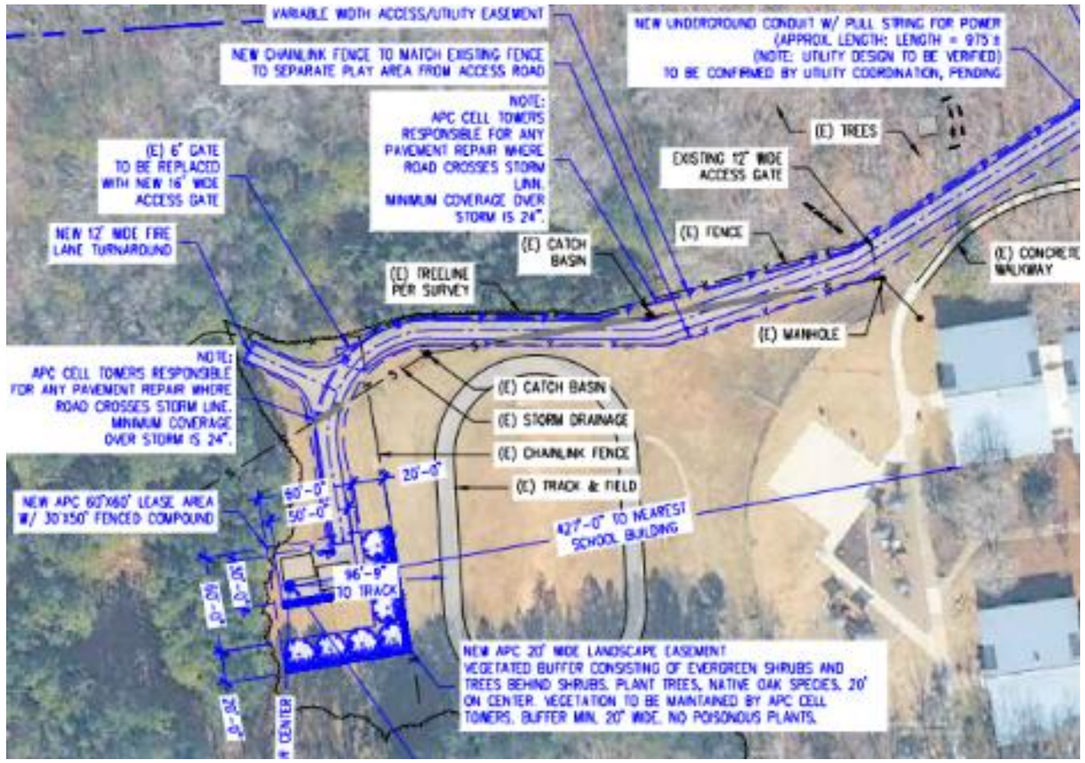
- Native vegetation and habitat areas
- Stormwater infrastructure
- Wetland resources
- Cedar Creek watershed influences
- Environmental permitting considerations



Wake County Set Back Requirements

185-Foot Tower Must Remain Within the Allowable Development Area

A telecommunications tower requires a setback area proportional to its overall height, ensuring the structure remains appropriately separated from adjoining properties while providing adequate space for access, maintenance, and future operational needs.



Key Challenges

As the parcel narrows toward the west:

- Available buildable area decreases.
- Environmental constraints increase.
- We cannot maintain setback compliance.
- Elevation decreases to the West would require a taller structure.
- Extensive tree removal.
- Moving the tower back will require a much taller structure with lighting.

Final Site Plan Conclusions

Proposed Location Represents the Best Overall Solution

The selected tower location achieves the best balance among all competing site constraints and operational requirements.

- ✅ Avoids impacts to environmental resources
- ✅ Minimizes disturbance to wetlands and watershed features
- ✅ Maintains Wake County setback compliance
- ✅ Reduces long-term operational risk
- ✅ Maximizes constructability while respecting site limitations

After evaluating environmental resources, stormwater infrastructure, parcel geometry, regulatory setbacks, and constructability requirements, the proposed tower location is as close to the retention pond as allowed. Further westward relocation would significantly increase environmental impacts, reduce compliance flexibility, and create substantial challenges for operation of the facility.