Appendix D

Local Zoning and Planning Documentation
ZONING ORDINANCE
A. Applicant shall provide written evidence that they have investigated co-location on an existing tower within one mile of the proposed site. New towers shall not be permitted unless the applicant demonstrates to the reasonable satisfaction of the governing authority that no existing tower or structure can accommodate the applicant’s proposed antenna. Evidence to the effect may consist of the following:

1. No existing towers or structures are located within the geographic area required to meet the applicant’s engineering requirements.

2. Existing towers or structures are not of sufficient height to meet the applicant’s engineering requirements.

3. Existing towers or structures do not have sufficient structural strength to support the applicant’s proposed antenna and related equipment.

4. The applicant’s proposed antenna would cause electromagnetic interference with the antenna on the existing tower.

5. Applicant is unable to work out an acceptable agreement to co-locate.

B. 1. Applicant shall provide written evidence that any construction or alteration of more than 200 feet in height above the ground level at its site complies with all FAA requirements.

2. Applicant shall provide written evidence that any construction or alteration of greater height than an imaginary surface extending outward and upward at one of the following slopes meets all applicable FAA requirements:

   a. 100 to 1 for a horizontal distance of 20,000 feet from the nearest point of the nearest runway of each airport in or near, Wilson County, excluding heliports.

   b. 25 to 1 for a horizontal distance of 5,000 feet from the nearest point of the nearest landing and takeoff area of each heliport in or near Wilson County.

C. Applicant shall provide room for vehicles doing maintenance to maneuver on the property.

D. On-site buildings shall only be used for the storage of necessary on-site equipment. Offices shall be prohibited on the same site as a tower, unless permitted on the same site in that zoning district.

E. Provide survey distance to residences on adjoining property.

F. Provide visual assessment by balloon with photo imagery of what structure will look like no less than two prominent off-site vantage points on the north, south, east and west. Provide map of these locations for reference as well.
G. Provide language confirming tower structures will be removed if no longer in active use for telecommunications purposes or other viable use as accepted by the Board of Zoning Appeals at the tower owners expense. State law not withstanding said removal will be required no later than 12 months after active use has ceased.

H. In an effort to encompass potential hazards of a tower collapse through such forces as wind shear or tornado, a utility lot that encompasses 1.5 times the total height of any proposed tower must be created by subdivision plat using the provision for an unmanned utility lot prior to site plan approval.

I. If certain regulations in the Wilson County Zoning Ordinance are found to imply different requirements regarding telecommunications facilities, then the stricter of or more stringent the regulations shall apply.

J. The Wilson County Board of Zoning Appeals and Wilson County Planning Commission may consider stealth type installation within church steeple on top of governmental buildings and other similar co-use installation sites on a case by case basis. Fall zone criteria may be modified in relation to these types of installation however distance to property line requirements stated in H above will be complied with.
Appendix E

Qualifications of Preparers
AARON BRUMMITT, RPA

SENIOR ARCHAEOLOGIST

Mr. Brummitt serves as a Project Manager for environmental projects and the Principal Investigator for Cultural Resources studies. He manages all aspects of cultural resources studies including authoring Memorandums of Agreement and data recovery plans, writing, editing, and final production of project proposals and reports, and overseeing field investigation and laboratory analysis. Mr. Brummitt’s education and experience includes the proper execution of cultural and environmental resource management and federal consultation law under the requirements of NEPA, NHPA, and other regulations.

Mr. Brummitt has directed numerous archaeological investigations serving a variety of local, state, and federal agencies, as well as a number of public utility groups and many private-sector industrial, commercial, and residential developers. He is familiar with consultation requirements of various State and Tribal Historic Preservation Offices (THPOs and SHPOs) and has experience conducting consultation with multiple THPOs and other tribal entities. Mr. Brummitt’s qualifications meet the Secretary of Interior’s Professional Qualifications Standards (defined in 36 CFR 61) for an Archaeologist.

KEY PROJECTS AND ASSIGNMENTS

Data Recovery Investigations at 38BK2091, Rebellion Farms, Berkeley County, South Carolina. Principal Investigator

Archaeological Survey for U.S. Route 460 Phase II, Buchanan County, Virginia. Principal Investigator

Assessment of Significant Archaeological Resources at the Johns Island Executive Airport, Charleston County, South Carolina. Principal Investigator

Archaeological Survey and Evaluation at Fort Pemberton, Charleston County, South Carolina. Principal Investigator

Environmental Assessment for the Proposed Terminal Expansion at the Charleston International Airport, Charleston County, South Carolina. Project Manager

Archaeological Survey and Evaluation of the Proposed Pecan Grove Housing Development, James Island, Charleston County, South Carolina. Principal Investigator

Environmental Assessment for the Clemson University / US DOE Drivetrain Test Facility, Project Manager.
Route 61 Bridge over the New River Replacement  
Radford Virginia. NEPA Review Archaeologist  
Data Recovery Investigations at 38CH2145 The Village at Bull’s Bay,  
Charleston County, South Carolina. Principal Investigator

Relocation of the Fortner-Moore Cemetery, Greeneville,  
Tennessee. Principal Investigator.

Archaeological Data Recovery at the McMillin House  
(40BY192), Bradley County, Tennessee, Principal  
Investigator

Archaeological Evaluation of 40RE94, Roane Business  
and Technology Park, Kingston, Roane County,  
Tennessee, Principal Investigator

Ground Penetrating Radar Survey of Chestnut Grove Methodist Church  
Cemetery, King North Carolina. Project Archaeologist / Co-Author.

**Select Publications and Presentations**


2013 *Archaeology in the 'Real World': the Training–Practice Disconnect in North American Consulting Archaeology* co-authored with John McCarthy. in Globalized Archaeology *Training and Practice for Modern Day Archaeologists*. Springer Press.

2011 Book Review *Foraging in the Tennessee River Valley*. by  
Kandace D. Hollenbach, Anthropology Review Database

2010 *Excavation of an Eighteenth Century Overseer’s House and an Avenue for Further Research*, paper presented at the 2008 Symposium on Southeastern Coastal Plain Archaeology.

2009 (Invited Speaker) A View From the East: Presentation and  
Roundtable Discussion. Oklahoma Anthropological Society, Lawton  
Chapter

2008 *Site Selection Strategies on the Atlantic Coastal Plain circa A.D. 1000*, paper presented at the 2008 Symposium on Southeastern Coastal Plain Archaeology.

FRANK M. CARVINO
Field Director/Archaeologist

Mr. Carvino is the Field Director/Archaeologist for S&ME's Columbus location. He offers 7 years of experience in archaeology, cultural resource management, historic preservation and collection management. A 36 CFR 61 qualified historical archaeologist with 6 years of field experience and 1 year of supervisory experience with archaeological resources from the historic period. Mr. Carvino has experience in Phase Ia, Ib, II, and III archaeological surveys. Knowledgeable in Section 106 and National Environmental Policy Act (NEPA) compliance requirements. He has also identified and cataloged over 4,000 historic artifacts. Typical projects worked on include pipeline and power-line surveys as well as telecom related surveys.

Key Projects and Assignments

Multiple Telecommunication Projects
*Connecticut, Massachusetts, Rhode Island 2013-2014*
Archaeologist/Principal Investigator for Section 106 compliance reviews on proposed telecommunication tower sites located throughout southern New England. Performed file reviews of all historic and archaeological related literature. Conducted on-site surface surveys and performed field excavation and evaluation. Authored over 70 final archaeological sensitivity assessment reports.

Saugus Iron Works National Historic Site Project
*National Park Service*
*Saugus, Massachusetts (2012)*
Archaeologist, researched and summarized accession information related to the entire artifact collection of the Saugus Iron Works. Produced two-volume artifact reference report identifying artifacts related to the site’s archaeological history.

Central Maine Power Line Project
*Throughout Maine (2011)*
Field Archaeologist for Phase I survey of historic foundations along power-line corridor, various locations throughout the state of Maine. Conducted field excavation and site evaluation. Recovered, processed and identified artifacts. Prepared final report graphics and photographs. Co-authored final project report.

Fairbanks House
*Dedham, Massachusetts (2010)*
Director/Curator for historic house museum, oversaw and maintained structural integrity of the building. Coordinated archaeology project and correspondence with SHPO to guarantee compliance with historic preservation restrictions. Developed collection management system for in-house artifact collection.
Greenwood Cemetery Restoration Project
Senior Field Archaeologist for a Phase III cemetery restoration project. Monitored heavy machinery excavation for location of burial shafts. Completed trenching excavations for burial locations. Identified and collected cultural material and physical burial remains. Conducted burial excavations.

VELCO East Avenue Loop Project
Burlington, Vermont (2008)
Senior Field Archaeologist, Phase I power-line corridor survey throughout the state of Vermont. Conducted field excavation and site evaluation. Recovered, processed and identified artifacts (XE3977).

The Corwin House
Salem, Massachusetts (2008)
Archaeology consultant, conducted salvage archaeology during construction of handicap access ramp and walkway. Identified and cataloged over 1,400 historic artifacts. Authored final site report for the city of Salem Parks and Recreation Department.

Poor Farm Road Relocation Project
Burlington, Vermont (2008)
Field archaeologist, Phase II survey of property surrounding Air National Guard Base for road relocation. Conducted field excavation and site evaluation. Recovered and identified artifacts (VT-CH-994).

Salem Maritime National Historic Site Utility Trench Project
National Park Service
Salem, Massachusetts (2005)
Graduate student practicum with the National Park Service. Identified and cataloged over 2,600 artifacts recovered from trench utility survey. Produced site report outlining site history and condition in relation to artifacts recovered.

Marr Island Homestead Project
Georgetown, Maine (2005)
Field archaeologist for survey of late 18th century homestead site. Phase II survey of historic house foundation and cellar hole. Conducted field excavation and site evaluation. Recovered and identified artifacts (ME 168-023).

Southeast Pipeline Project
Savannah, Georgia to Jacksonville, Florida (2000)
Field archaeologist for Phase I gas pipeline route survey between southern Georgia and northern Florida. Conducted field excavation and site evaluation. Recovered and identified artifacts.
Continuing Education

- Litchfield Historical Society, 2010 “Unlocking the Vault: Key to Use and Access of Historical Collections”, Litchfield, CT

Presentations

- Sudbury Historical Society, Presentation: The Fairbanks House connections to Sudbury” Sudbury, MA 2010
- Eastern States Archaeological Federation, Presentation: From Coast to Consumer, Artifact as Commodity. Paper presented at the 73rd Annual Meeting of the Eastern States Archaeological Federation, Fitchburg, MA 2006
PHILIP J.M. THOMASON
PRINCIPAL/THOMASON AND ASSOCIATES

EXPERIENCE


Historic Preservation Plans, Ordinances and Design Review Guidelines
Authored plans, ordinances and design review guidelines for fifty communities throughout the country including Pittsburgh, Cary, North Carolina, Little Rock, Arkansas, New Britain, Connecticut and Salt Lake City.

Tax Certification Consultant
Provided assistance, research and consultation necessary for projects utilizing the 20% Investment Tax Credit. This included involvement in the certification of fifty historic projects throughout the country.

Military Installation Cultural Resource Consultant
Responsible for the analysis and evaluation of cultural resources at fifteen military bases. Evaluation includes the preparation of preservation plans, National Register nominations, and Programmatic Agreements. Consulting services provided to the US Navy at Memphis NAS and Corpus Christi NAS; US Air Force at Randolph AFB, Scott AFB, and Warner Robins AFB; and US Army at Fort Benning and Fort McPherson.

National Register Nominations
Author of National Register Nominations in 26 states across the country. Nominations have included individual properties, historic districts and Multiple Property Documentation Forms for Route 66 and the Trail of Tears. Nominations prepared have resulted in over 12,000 structures placed on the National Register.

Cultural Resource Surveys
Directed surveys of historic buildings in cities such as Centralia, Washington; Oak Park, Illinois and; Miami, Florida. Inventoried Properties total over 30,000 structures.

Historic Structure Reports
Authored or co-authored historic structure reports recommending proper restoration techniques. Properties include the Benham Theatre, Benham, Kentucky; Christian County Courthouse, Hopkinsville, Kentucky, and; Sapphire Inn, Sapphire Valley, North Carolina.

Historic Survey Publications
Responsible for writing, research and layout for historic survey publications. These include survey publications for Hardin and Pulaski Counties, Kentucky; McCormick, Greenville and Spartanburg, South Carolina.

Section 106 Review and Mitigation
Conducted research and report writing for Section 106 mitigation including the Burkville Plantation Historic District, Lowdes County, Alabama, for the U.S. Army Corps of Engineers; Kentucky River Survey and Analysis for the Tennessee Valley Authority; Memphis I-40/240 Interchange and Route 840 for the Tennessee Department of Transportation.

Projects included:
   Historian, Columbia Reservoir Historic Resources Survey
   Author, Murfreesboro, Tennessee--Plan for Revitalization
   Historian/Principle Author, Rugby Master Plan for the U.S. Army Corps of Engineers.

MEMBERSHIP

Board of Directors, Preservation Action, 1991-2008
National Trust for Historic Preservation

EDUCATION

Bachelor of Arts - Knox College, Galesburg, Illinois, 1975
Master of Arts - History, Emphasis on Historic Preservation, Middle Tennessee State University, 1981

AWARDS

First Award for Urban Planning and Design for contributions to the Rugby Master Plan. Awarded by Progressive Architecture, 1986
Certificate of Merit - Historic Nashville Inc., 1986
Certificates of Merit - Tennessee Historical Commission, 1988, 1990
“Achievement in Comprehensive Planning Award” – Fort Smith, Arkansas Citywide Historic Preservation Plan. Awarded by the Arkansas Chapter, American Planning Association, 2009
“Special Citation for Achievement in Public Policy” - Little Rock Citywide Preservation Plan. Awarded by the Historic Preservation Alliance of Arkansas, 2011
KRISTY SMEDLEY- SENIOR SCIENTIST

Professional Background

Ms. Smedley is a Senior Scientist skilled in the following disciplines: project management; wetland determinations and delineations; stream assessments; regulatory coordination; Clean Water Act Section 404, Rivers and Harbors Act Section 10, TVA Section 26A, and Section 401 permitting; wetland and stream mitigation and monitoring; stream restoration and relocation; and protected species assessments. She also routinely conducts Phase I Environmental Site Assessments and has performed numerous such assessments for both undeveloped and developed properties, including commercial, retail, educational, and health care facilities ranging from under 1 acre to several thousand acres.

Representative Experience

Regional Stormwater Facility, Chattanooga, TN
Provided state and federal permitting for wetland and stream impacts associated with the completion of the Regional Stormwater Detention Facility that will serve the Enterprise South Industrial Park. Conducted an assessment of potential roosting habitat for the federally-protected Indiana bat, Myotis soldalis. Based on presence of habitat and project construction schedule, coordinated with the USFWS and client to establish a Memorandum of Agreement and coordinated the payment of mitigation funds into the Indiana Bat Conservation Fund. A survey of the state-threatened Chickamauga crayfish, Cambarus extraneus was conducted within the on-site stream. The species was not collected during the survey and trapping and the state concurred with our findings of no impact to species. Onsite mitigation was provided in the form of preservation, wetland creation, and stream restoration/relocation. Provided monitoring observations during the stream and wetland construction. Designed and implemented annual monitoring plan to continue until 2020.

Volkswagen of America Assembly Plant, Chattanooga, TN
Assisted in the development of the wetland and stream mitigation plans, obtained the necessary state and federal permits, monitored construction of onsite mitigation areas, and continue to conduct annual monitoring.

South Chickamauga Creek Greenway, Chattanooga, TN
A TDOT Enhancement grant partially funded this project and, as such, a Categorical Exclusion was obtained following review of the 2.6 mile segment for protected species and jurisdictional waters.

Downtown Riverwalk Phase I and II, Chattanooga, TN
On behalf of Hamilton County Government, obtained a Categorical Exclusion from TDOT for the proposed Riverwalk trail extension.

Relevant Education

High School Diploma, Ooltewah High School, Ooltewah, TN

B.S., Environmental Science, University of Tennessee at Chattanooga

M.S., Coastal Science, University of Southern Mississippi

Continuing Education and Training

40-hour Hazardous Waste Operations (OSHA 1910.120) Annual refreshers

Advanced Hydric Soils Course, Wetland Training Institute April 2014

NC State University -Stream Restoration Course- Levels 1 and 2, 2007 and 2008


Tennessee Department of Environment and Conservation, Qualified Hydrologic Professional (Certification #1021-TN11)
CHRIS DAVES, PWS, CEPSCI
BIОLOGIST

Mr. Daves is a Biologist/Natural Resources Project Manager for S&ME’s Columbia, South Carolina Office and a Professional Wetland Scientist (PWS), an S&ME Environmental Professional (EP), and a Certified Erosion Prevention and Sediment Control Inspector (CEPSCI). He is skilled in the following disciplines: Project management, jurisdictional wetland determinations, plant surveys, protected species surveys & habitat assessments, Nationwide/Individual CWA permit applications & acquisition, expert witness, GPS/GIS mapping, state & federal regulatory agency coordination, USFWS Section 7 Consultation & Biological Assessment preparation, Phase I & Phase II ESAs, soil & groundwater assessments, NEPA documentation and compliance, FCC reviews, HUD environmental assessments, stormwater monitoring, sediment and erosion control inspections, and stream restoration.

KEY PROJECTS AND ASSIGNMENTS

Wireless Communications Tower Sites
Various Counties in South Carolina, North Carolina & Georgia
Project Manager for 100+ NEPA/FCC reviews and Environmental Assessments of wireless communication projects. Assessments included wetland determinations, protected species assessments, wildlife and wilderness areas evaluations, archeological and architectural studies, Native American tribal consultation, floodplain and zoning analysis, Phase I ESAs, and radio frequency reviews. Clients included Verizon Wireless, Cingular, Crown Castle Atlantic, SBA, Cricket Communications, and Horry Telephone Cooperative.

U.S Housing & Urban Development (HUD) NEPA Reviews
Various Counties in South Carolina
Project Manager for HUD environmental reviews regarding in-fill single-family and multi-family housing and commercial projects, SC State Housing Authority, and Historically Black Colleges & Universities projects. Reviews consisted of completion of categorical exclusion documents, statutory checklists, environmental assessments, Phase I ESAs, noise studies, coordination with federal, state, and local governments, mitigation strategies, and alternatives analysis.

Holston Creek Park NEPA Environmental Assessment
Inman, South Carolina
Project Manager for NEPA Environmental Assessment for Spartanburg Co. Parks Department land in Inman. Assessment was conducted to determine potential environmental consequences from the proposed construction and operation of Holston Creek Park under federal Land and Water Conservation Fund (LWCF) grant guidelines.

Project Role
Biologist

Company
S&ME, Inc. – Columbia, SC

Education
BS, Biology, 1995, Wofford College
Graduate Studies, 1995-1997, Medical University of South Carolina
MS, Earth & Environmental Resources Management, 2001, Univ. of South Carolina

Years of Experience
Joined S&ME in 2001

Professional Registrations
• Professional Wetland Scientist, 2006 (#1620)
• Certified Erosion Prevention and Sediment Control Inspector, 2007 (#2129)
• Midlands Master Naturalist - 2012

Professional Memberships
• Society of Wetland Scientists
• SC Association of Environmental Professionals
• Southern Appalachian Botanical Society
• SC Native Plant Society
Project Y
Richland County, South Carolina
Project Manager for jurisdictional wetland/waters delineation, protected species assessment, NEPA Environmental Assessment, and Phase I ESA. Project also involved 401/404 permitting for impacts to approximately 14.99 acres of jurisdictional/non-jurisdictional wetlands.

Lincolnton-Lincoln County Airport Safety Area Expansion
Lincolnton, North Carolina
Project Manager for jurisdictional wetland/waters delineation, protected species assessment, GPS survey, & Phase I ESA. Project involved Section 7 consultation and the preparation of a Biological Assessment for USFWS for potential impacts to federally-threatened dwarf-flowered heartleaf (*Hexastylis naniflora*). Approximately 750 individuals were transplanted to the Rhyne Conservation Area. Five-year biological monitoring is currently ongoing for plants.

South Carolina Certified Site Program
Various Counties in South Carolina
Project Manager for over 50 sites in the South Carolina Department of Commerce’s Certified Site Program for industrial parks. Sites ranged from 20 acres to 2,500 acres. Services included jurisdictional wetland/waters determinations, protected species assessments, Phase I ESAs, and cultural resources surveys.

CONTINUING EDUCATION
• Midlands Master Naturalist Program – Clemson University, 2012.
• ASFE’s Fundamentals of Professional Practice (FOPP), 2009-2010
• HUD Environmental Review Procedures for Responsible Entities – Atlanta, GA, 2008
• Accounting for Cumulative Effects in the NEPA Process – Duke University, 2007
• Certified Erosion Prevention & Sediment Control Inspector Training – SCDHEC, 2007
• Creation and Restoration of Wetlands – Ohio State University, 2007
• Mountain/Upper Piedmont Threatened & Endangered Species Identification Course, 2005
• Coastal Plain Threatened & Endangered Species Identification Course, 2005
• Taxonomy & Pollution Ecology of Aquatic Insects – AB Tech, 2005
• Rosgen Level II Stream Restoration Training – River Morphology and Applications, 2004
• South Carolina Low Impact Development Conference, SCDHEC, 2003
• Rosgen Level I Stream Restoration Training – Applied Fluvial Geomorphology, National Conservation Training Center, 2003