

ABOUT US

Tectonic Engineering & Surveying Consultants P.C. (Tectonic) was founded in 1986 and is a multi-disciplined engineering and professional service firm, employing a staff of over 500 professionals. Tectonic has over 30 years experience, with a reputation for offering professional quality services to its clients; earning a ranking in the ENR Top 500 Engineering Design Firms since 2001, with a current national ranking of 162.

Tectonic's success stems from a philosophy of providing clients with superior service through a staff of quality-minded professionals. When you choose Tectonic, you work with some of the finest professionals in the business; professionals who will earn your trust and confidence, every day, every project.

MISSION STATEMENT

TECTONIC'S GOALS, MISSION STATEMENT AND PHILOSOPHY

Tectonic has been guided by a focused philosophy and goals since the firm's beginning - vision, integrity and technical expertise. Simply put, Tectonic's goals are to:

- Maintain the highest standard of quality on each and every project.
- Complete projects within budget and on-time.
- Exceed our Client's expectations.

"Practical Solutions, Exceptional Service"





NETWORK / EDGE & CRAN / FACILITY SERVICES

Tectonic provides comprehensive Network Facility Switch Design on new facilities, expansions, and upgrades. Our team provides the full range of permitting, A&E design, construction compliance and management and professional services resulting in cohesive, seamless projects. Compliance with client-specific Network Facility Standards, as well as, all applicable local, state and federal codes, and standards is integral in our design and commissioning process.

Master Planning
Site Due-Diligence / Feasibility Studies
Design and Permitting
Facility Commissioning
Civil / Site Engineering
Electrical Design and Upgrades
Security Systems
Locating Services Edge Facilities

M.E.P. / HVAC Engineering Structural / Seismic Analysis Geotechnical Investigations Emergency Power Design Fire Suppression Security Systems Site Acquisition Services Project Management



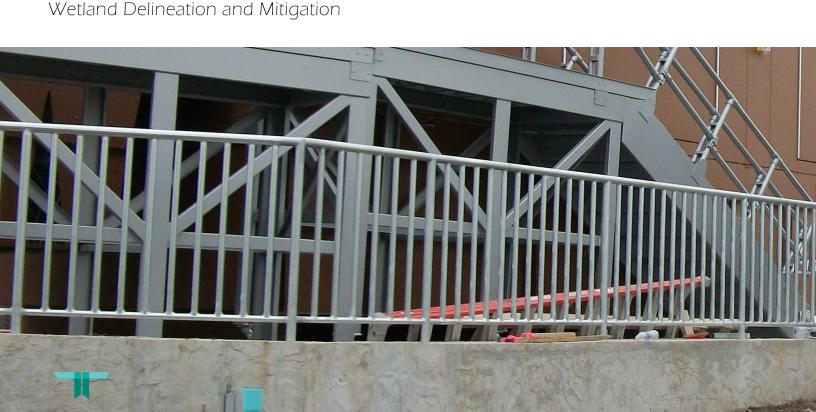
PROFESSIONAL SERVICES

Civil Engineering

Cost and Feasibility Studies Grading and Drainage Design Hydraulic and Hydrologic Analyses Infrastructure/Utility Evaluations Landscape Planning Municipal Engineering Regulatory Permitting/Compliance **Environmental Impact Studies** Roadway and Highway Design Site Planning and Design Storm water Management Plans Low-Impact Design Transportation/Traffic Engineering Visual Resource Renderings and Photo Simulations Water Resource Investigation and Design Water and Wastewater Systems Design

Structural Engineering

Structural Design Structural Investigations Code Compliance Review Construction Support Feasibility Studies Forensic Assessment Plan Review Seismic Analysis Transmission Structures Design & Retrofit Communication Tower Analysis Construction Support Sheeting & Shoring Crane Loading Analysis **Temporary Structures** Specialty Fabrications



PROFESSIONAL SERVICES

Geotechnical Engineering

Design Phase Services Foundation Design and Analysis Subsurface Investigations Soil and Rock Mechanics Laboratory Soil and Rock Testing Hydrogeologic Studies Retaining Wall Studies and Design Seismic Analysis (including site specific) Ground Improvement Design Slope Stabilization Design Forensic Investigations Dewatering Systems Earth Support Systems Pile Load Test Sub-Grade Evaluations Underpinning Systems Vibrations and Blasting

Environmental Services

Due Diligence
Phase I and II Environmental Site
Assessments
NEPA Investigations and Reports
Environmental Impact Statements
Wetland Delineation
Wetland Mitigation Plans
Avian/Bat/Threatened & Endangered
Species Assessments
Air Monitoring
Brownfield Redevelopment



NETWORKSWITCHFACILITYPROJECTS

Verizon Wireless - Rochester, NY MSC Single Aggregation Point Master Plan Expansion - Project Management, Architectural, Civil Engineering including storm water and utility requirements, Property/Topographic Surveying, Structural Engineering, Geotechnical Engineering

Verizon Wireless - Plymouth Meeting, PA MSC Single Aggregation Point Master Plan Expansion - Project Management, Architectural, Civil Engineering including storm water and utility requirements, Property/Topographic Surveying, Structural Engineering, Geotechnical Engineering

Verizon Wireless - Pennsylvania, New York, Nevada, North Carolina MSC Single Aggregation Point Master Plan Expansion & Upgrades - Project Management and Design Services for Architectural, Fire Resistance, Civil, Geotechnical, and Structural Engineering for HVAC, Electrical, Generator and Building Upgrades

T-Mobile/MetroPCS - Hawthorne, NY Switching Facility - Design, Permitting, and Engineering Services which included Architectural Design and Code Review, Seismic Compliance, Mechanical, Electrical, Plumbing, Fire Suppression, Security & Alarm Design.

T-Mobile/Metro PCS – Fairfield, NJ New Switch and Office Build – Program Management, Architectural & Engineering and Permitting for the Full Design and Development of the Switch and Associated office space

Verizon Wireless - Windsor, CT Mobile Switching Center Renovation – Program Management and Architectural & Engineering Design for 8,000 Square Feet of Network Equipment Switching Space

Verizon Wireless - Macon, GA MSC 480 Volt Service Upgrades – Program Management, Architectural & Engineering Design including Demolition, Structural, Electrical and Mechanical Plans. Tectonic also provided Construction Inspection Services

Verizon Wireless – Philadelphia & Harrisburg, PA & Wilmington, DE Baseline Commissioning Survey & Testing - Survey and Testing of existing Infrastructure Systems for Compliance with Verizon Standards and Comprehensive Report & Recommendations

Verizon Wireless – Richmond, VA- Tectonic provided special inspection services to monitor conformance to design and construction documents.



NETWORKSWITCHFACILITYPROJECTS

Verizon Wireless - New York, Connecticut & Texas New MSC Design Services – Zoning & Code Review, Architectural Design, Power Design, Network Equipment Layout, Grounding and LP Design, Site/Civil Design, Structural/Seismic Design

SunCom/AT&T - Richmond, VA Telecommunication Switching Facility Expansion - Structural Design, Facility Design, Electric/HVAC, Construction Inspection/Resident Engineering, Zoning/Permitting

Verizon Wireless - Yonkers, NY Dual Switching Facility/SAP Expansion – Program Management, Architectural & Engineering, Zoning/Permitting and Surveying

Verizon Wireless - Dallas / Fort Worth New MSC - Programmatic Facility Design, Civil/Site Design, Architectural/Life Safety Design, Code/Network Compliance Review, Geotechnical Design, Survey

Verizon Wireless - Windsor, CT Mobile Switching Center Renovation - Full Facility Analysis & Master Plan including Structural/Seismic Design, Civil/Site Design, Code/Life Safety Design, MEP Design Boundary & Topographic Survey, Fire Suppression, Zoning Support & Approvals

Verizon Wireless - Pennsylvania and New Jersey MSC Switch Design Expansions including Architectural/ADA/Life Safety, Structural/Seismic, Mechanical Systems, Electrical Systems, Plumbing Systems, Security, Fire Detection/Fire Suppression, Building Automation Systems, Basis of Design, Project Specifications, Equipment Cuts/Systems Review, and Engineering Cost Estimates/Project Schedule



CRAN FACILITY PROJECTS

CRAN Services - Verizon Wireless Southwest (NM, AZ, NV and TX)

Tectonic is providing A/E Design Services for CRAN (Centralized Radio Access Network) Hubs throughout the Southwest for Verizon Wireless. These sites have been identified as requiring Medium Sized Hubs to centralize numerous cell sites within the regional areas. Services include Civil, HVAC, Fire Protection, AC / DC Electrical Power Upgrades and Structural Engineering services to provide redundancy and convert the existing buildings into Network Grade Hub Facilities.

CRAN Services – Verizon Wireless Northeast & Southeast (CT, NC, SC and TN)

Tectonic is currently providing Real Estate and A/E Design services CRAN hubs in Verizon Wireless' Southeast and Northeast Region. These existing cell sites have been identified as possible Medium Sized Hubs in order to centralize numerous cell sites within the regional areas of both markets. Tectonic services include completion of all Phase 1 requirements including due diligence, leasing review, site feasibility assessments and preliminary leasing documents.

CRAN / DAS Services – Verizon Wireless Southeast (Lynchburg, VA)

Liberty University in Lynchburg, VA has requested that VZW provide a medium hub head end for the proposed Distributed Antenna System throughout the school. This CRAN Medium HUB will require a complete fit out of the tenant space to include upgrades in Electrical Power, Emergency Generators, HVAC Upgrades, Fire Protection and Access Controls.

Large HUB A/E Services – Verizon Wireless Northeast (LaGrange, NY)

The LaGrange Large Hub currently has approximately 100 cell sites connected in this Facility. Tectonic is providing A/E Design Services to include Electrical and Emergency power service upgrades and HVAC Upgrades for additional cooling. AC power and HVAC studies to determine/verify the existing loads and future loads. HVAC Alarms, controls and monitoring were also designed to be compliant with the current VZW NSTD 3000 standards.



REFERENCES

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PROFESSIONAL SERVICES

Land Surveying

Acquisition/ROW

Aerial Control

ALTA/ACSM Land Title

Certified Boundary

Geodetic Control

GIS Mapping

Property Subdivision

Route Surveys

Topographic

Wetland Delineation

Anchor Bolt Location

As-Built Plans

Baseline Location

Construction Layout

Litigation Support

Steel Plumbness Surveys

Construction Services

Blasting and Vibration Monitoring

Claims Analyses

Constructability Reviews

Contract Administration

QA/QC Programs

Resident Engineering

Technical Inspections

Asphalt Pavement

Concrete

Fire stopping

Fireproofing

Roofing

Soils Inspection

Subgrades

Structural Steel

Rock Bolts

Structural Cold-Formed Steel

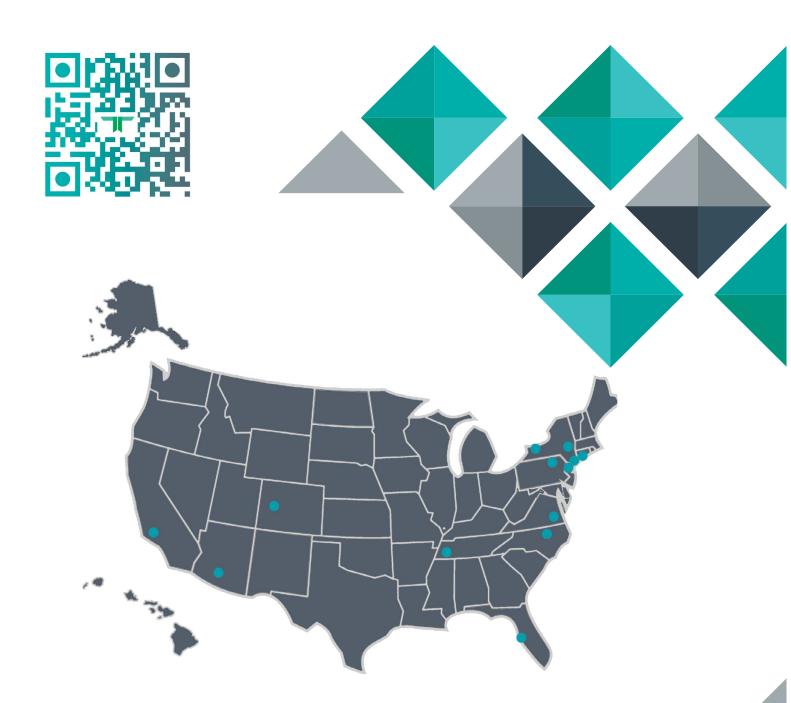
Masonry

Precast Concrete

Post-tensioned Concrete







TECTONIC Office Locations.

Arizona | California | Colorado | Connecticut | Florida | New Jersey New York | North Carolina | Pennsylvania | Tennessee | Virginia

TECTONIC Telecommunications Division

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