

Improving Your World
by being a leader in
providing deep foundations
construction services.

RS&H CS
IMPROVING YOUR WORLD

Deep Foundations Construction Services

A leader in deep foundations construction services

The RS&H CS staff has experience on over 200 deep foundation projects in Florida and Virginia. These projects include multiple bridges and foundations consisting of driven precast concrete or steel piles and cast-in-place concrete drilled shafts.

Pile Driving Analyzer (PDA) Services

PDA services are performed utilizing the most advanced PDA equipment and latest versions of analysis software. Mark Hirsch, PE, with over 19 years of experience in deep foundation analysis leads the Deep Foundations Service Group. The PDA field services is led by RS&H CS associate, Dale Paxton, who has ten years of experience in PDA work and deep foundations analysis. Mr. Paxton is highly qualified for this role, being a graduate engineer and one of an exclusive group of sixty people globally to hold the High Strain Dynamic Pile Testing (HSDPT) certification which is acknowledged and accepted by state departments of transportation and required by the Florida Department of Transportation (FDOT), Federal Highway Administration (FHWA) and the Pile Driving Contractor's Association (PDCA).



Cross-Hole Sonic Logging (CSL) Services

The RS&H CS Deep Foundations Service Group uses the latest testing method to verify the integrity of drilled shafts and auger cast piling. CSL testing services are performed utilizing the most recent Cross-Hole Analyzer equipment and MP analysis software (CHAMP) manufactured by PDI, Inc. The Deep Foundations Service Group specializes in performing CSL testing on all types of cast-in-place concrete drilled shafts and cast-in-place concrete auger cast pile foundations. Our CSL testing experience includes transportation clients such as: Pennsylvania DOT, Jacksonville Transportation Authority (JTA) and Jacksonville Port Authority (JaxPort) and RS&H CS is prequalified to perform CSL testing for FDOT. This service is also beneficial to clients outside transportation that require these types of foundations for lighting, signage or signalization. These services have been provided to Fortune 500 companies.



Vibration Monitoring Services

RS&H CS also provides vibration monitoring services using the "State-of-the-Art" Minimate-Pro6 equipment and analysis software. Vibration monitoring is primarily utilized on collecting data for operations with excessive vibration concerns such as: pile driving, drilled shaft or auger cast pile installation, compaction operations and many other construction-related activities. The RS&H CS Deep Foundations Service Group can provide the feedback on the level of vibration being generated from the operations. Clients that have benefitted from these services include FDOT, Virginia DOT, JTA and numerous other counties and cities, as well as residential and the private sector.



General Geotechnical Construction Services Highlights

- All deep foundation construction services are performed by RS&H CS associates, which expedites project recommendation and submittal time.
- Our staff is equipped with all the necessary equipment to perform deep foundation services on any pile or drilled shaft type or size.
- Our staff is available for scheduling and project recommendations 24 hours-a-day; 7 days-a-week.



Recent Pile Drive Analyzer (PDA) Experience

FDOT Projects

- SR 21 Over Black Creek
- SR 46 Over Lake Jesup
- Heckscher Drive Bridges
- Moody Bridge Over Spruce Creek
- Wonderwood Connector – Segment 3
- Beach Boulevard/Kernan Boulevard Interchange
- Beach Boulevard Bridge Over ICWW
- CR 53 Over Norton Creek
- US 1 Over Miami River
- I-75 Over Alico Road
- SR 26A Over Hogtown Creek
- JTB/SR 9A Interchange
- I-110 Over Texar Drive
- Bridge of Lions – Trestle Bridges
- Sanibel Causeway Reconstruction
- Century Street Over Strawberry Creek
- 8th Street Interchange
- SR 9A – Segment 6
- Butler Boulevard Bridge Replacements
- UNF Interchange Bridge
- SR 20 Over Rice Creek (Phase I and 2)
- Egan's Creek Wetland Restoration Bridges
- JIA South Access Road Bridge
- US 90 Over SCLL Railroad
- Branan Field-Chaffee Road Bridge Construction
- HEFT (Turnpike) Bridge Widening
- I-95/Palm Beach International Airport Interchange
- I-75 Over Lake Panasofkee
- 836 Expressway Bridge Widening
- US 90 Bridge Replacements
- US 17 Bridge Replacements
- CR 121 Bridge Replacements
- Bryant Patton/St. George Island
- SR 16 Over San Sabastian River
- 20th Street Expressway Bridge Widening
- Pensacola Street Realignment Bridge
- SR 46 Over Six Mile Creek
- US 1 Over Tomoka River
- US 441 Over Beggs Road Bridge Replacement
- SR 7 Over Dania Canal
- Southside Blvd. Over Beach Blvd. Bridge
- SR 16 Over Black Creek Bridge Reconstruction
- Turnpike Over SR 80
- Hogan Road Bridge Replacement
- SR 45 Over Coccohatchee River
- SR 72 Over Horse Creek
- US 41 Over Gordon River

Recent Cross-Hole Sonic Logging (CSL) Experience

- I-95 north of CR 210
- I-95 and CR-210 Interchange
- US 17-92 at Laura Street
- US 17-92 at Button Road
- JaxPort
- Branan Field-Chaffee Road
- Walmart – Palm Beach

Recent Vibration Monitoring Experience

- Wonderwood – Segments 1 and 3
- Cedar Key Dock Project
- Eagans Creek
- Regency Bypass
- Southside Connector/Merrill Road
- Bridge of Lions
- Marion County Judicial Center
- Nocatee Development

City, County, Port, Railroad and Residential Projects

- Atlantic Blvd and Kernan Blvd Interchange
- Jupiter Boulevard, Palm Bay
- New Kings Road Over CSX Railroad
- Moody Bridge Over Spruce Creek
- Collins Road Over I-295
- Canoe Creek Bridge Replacement
- Wetherbee Road Over Boggy Creek
- Boggy Creek Road Over Florida's Turnpike
- Lake Road Bridge Replacement
- Rutile Drive Over Ponte Vedra Canal
- Old Wintergarden Road
- Cowpen Branch Road Bridge Replacement
- Wonderwood Expressway (Phase I, II, IIA)
- Winifred Masters Road Bridge Replacement
- Regency Bypass – Phase I
- Linton Boulevard Bridge Replacements
- Bellview Bypass Bridge Construction
- Roebuck Road Over Florida's Turnpike
- Southside Connector Over Merrill Road
- US 92 Over Lake Gertie Bridge Replacement
- Mayport Flyover Bridge Construction
- Polk County Parkway
- Suncoast Parkway
- White Sands Townhomes
- Port Canaveral Fuel Tank Farm
- Panama City Beach Pier
- Corner Lake Middle School Pedestrian Bridge
- Elena on the Bay
- Anastasia Island
- Waterstreet Hotel
- Dinky Line Trail
- FEC Railroad Bridges
- Gateway at Riverwalk
- Parkcrest at Harbour Island
- Clint Moore Road Bridge Replacements



RS&H CS, formed in 1984 as a wholly owned subsidiary of RS&H, is an infrastructure consulting firm providing construction engineering and inspection services.

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