



Statement of Qualifications

Professional Services for
US 19/Marine Parkway
Bicycle/Pedestrian Bridge
Feasibility Study

RFQ 21-011

City of New Port Richey

Due: July 1, 2021

Ingenuity, Integrity, and Intelligence.

www.AyresAssociates.com



July 1, 2021

City of New Port Richey
City Clerk's Office
5919 Main Street
New Port Richey, FL 34652

Re: RFQ 21-011: Professional Services for Bicycle/Pedestrian Bridge Feasibility Study

Dear City of New Port Richey, New Port Richey CRA, and Selection Committee Members:

On behalf of Ayres, we are excited to submit this proposal for the Bicycle/Pedestrian Bridge Feasibility Study at Marine Parkway and US 19. For more than eight years we have had the honor and privilege of being able to work with you and your community on a variety of projects, from permit reviews to improvements at Frances Avenue Park. **Having just completed a nearly identical study for the Suncoast Trail Bicycle/Pedestrian Overpass at SR 54 in Odessa,** we are well-versed in the study process and are intimately familiar with what it takes to provide you with a realistic, actionable report.

The Ayres team brings both **nationally recognized design and operations expertise** complemented by a skilled project team with extensive project delivery capabilities. Team members possess unique and complementary skills with knowledge essential to analyzing and formulating appropriate planning responses addressing your infrastructure needs.

As a current provider of engineering services for the City, the Ayres team offers thorough knowledge and a full understanding of the design standards, philosophies, and management personnel. These factors, combined with our proven track record for on-time and on-budget delivery of projects, allows us to be the City's best choice to provide this feasibility study tailored to your distinct infrastructure.

The Ayres team stresses customer service and mutually defined project objectives. Through this focus, we can assure you project issues will be clearly identified and addressed through an engaged, interactive process. Our project manager, **Christopher Martin, PE**, has successfully managed municipal assignments for the past 17 years, and our planning and design team has been together for over 14 years. Our team understands the importance of maintaining availability and timely responses to correspondence; we are confident that our customer service will exceed your expectations.

The Ayres team comprises more than 300 professionals linked seamlessly across the nation to support the City's growing infrastructure. We have the demonstrated capability to lead projects, deliver innovative cutting-edge solutions, and serve as an extension of the City's staff, providing nationally recognized expertise and southern cordiality.

Thank you for considering our qualifications. We look forward to continuing our partnership with you.

Sincerely
Ayres Associates Inc



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Our team operates under a solution-focused mindset, backed by the skills to follow through.

If a challenge arises, our partners know we'll jump into action to assess the situation, implement a solution, and be part of making the decisions to keep the project on track.

Section 1: Qualifications

About Ayres

With a team of 300+ throughout the nation, we stand with integrity behind thousands of projects that strengthen communities and our country's infrastructure, economy, and environment.

Our Core Values

1. We provide smart, creative solutions.
2. We work with clients as partners.
3. We conduct business with integrity.
4. We challenge, support, and recognize our employee owners.
5. We have commitment to community.

By the very nature of his work, our founder Owen Ayres was dedicated to the details. A structural engineer, Owen knew anything he set out to build was only as sturdy and reliable as its foundation – and that, combined with ingenuity, integrity, and intelligence, is what made the difference between a structure destined to fail and a structure sure to last.

In 1959, Owen founded Ayres Associates atop a steadfast foundation of honesty, innovation, and good old-fashioned hard work – and a vision for a firm that revolved around strong, reliable partnerships. Decades (and thousands of rewarding partnerships) later, Ayres has grown to become a nationwide team of industry experts, representing some of the most inventive problem-solvers in the country. That team, in turn, has since planned, designed, and facilitated the creation of thousands of projects that keep our nation's infrastructure reliable and responsive.

Our project managers' tools and expertise include civil and municipal engineering, transportation, structural design and inspection, river engineering and water resources, architecture, landscape architecture, environmental, geospatial, planning and development, and telecommunications and subsurface utility engineering (SUE).





Firm Structure

Ayres was incorporated in 1959, and our Florida operations were established in 1986. We have 11 offices nationwide with four offices in Florida – two in Tampa, one in Titusville, and one in Cape Coral. Services for this contract will be provided primarily from our Tampa Hidden River office, with support from our other offices as needed.

Ayres is an employee-owned firm, with approximately one-sixth of the corporation's employees individual stockholder investors. Other employees that meet eligibility requirements are beneficial owners of the business through the Employee Stock Ownership Plan. Ayres has no major third-party relationships.

A seven-member Board of Directors oversees company operations and sets broad policies. Day-to-day corporate management is delegated to the firm's executive committee, vice presidents, and managers of operations. Executive committee members are President Bruce Ommen, PE; Executive Vice President/Chief Financial Officer Richard Schoenthaler, CPA, CGMA; and Executive Vice President Jan Zander, PE.

Technical operations are based on the project management system. An operations vice president or manager assigns a project manager to each project and tracks the progress of that project. The project manager

serves as the primary contact with the client, attends meetings, develops project budgets, coordinates work tasks with the project team, and guides the project to completion.

For more than 60 years, Ayres has provided services to a variety of clients and has established a professional reputation for integrity and competence in civil, transportation, structures, landscape architecture, parks and trails, environmental, hydraulic, hydrologic, and applied geospatial fields.

Ayres has the talent and resources to accomplish this feasibility study. We employ more than 130 registered and/or certified professionals in varying technical capacities. **Having recently completed the Cotee River Landing (Waterfront Overlay District) feasibility study for Port Richey, we are intimately familiar with not only the area itself, but the potential stakeholders – and we are keenly aware of the need for increased bicycle/pedestrian infrastructure along the US 19 corridor.**

Ayres is entrenched in your community: We are the current city engineer for New Port Richey and Port Richey, and we have designed numerous US 19 segment improvements led by senior project manager and transportation engineer Jeffrey Siewert, PE.

Committed to Our Clients



As the City's consulting engineer, we will act in the best interest of the City of New Port Richey and its residents to resolve infrastructure needs and enhance safety and quality of life in your community. We have learned

that to provide the best service possible, we position ourselves to work alongside your team. **Being a true business partner to our clients is not a catchphrase – it's how we conduct business every day.** We will listen to understand your program goals, design constraints, operational needs, and key objectives for each task. We will combine that information with our experience to serve as a trusted adviser.

Designing projects for effective, long-term benefits takes ingenuity, integrity, and intelligence – along with effective management and communication skills producing creativity and innovation in design solutions. From the first meeting forward, we invest as much time into the strength and stability of our partner (client) relationships as we do into the projects

themselves. Our partners know they can count on us to roll up our sleeves with them, year after year; provide clear, consistent communication; involve them in the decision-making process for the length of their project; and deliver a responsive, responsible, intelligent resolution for any concern or challenge.

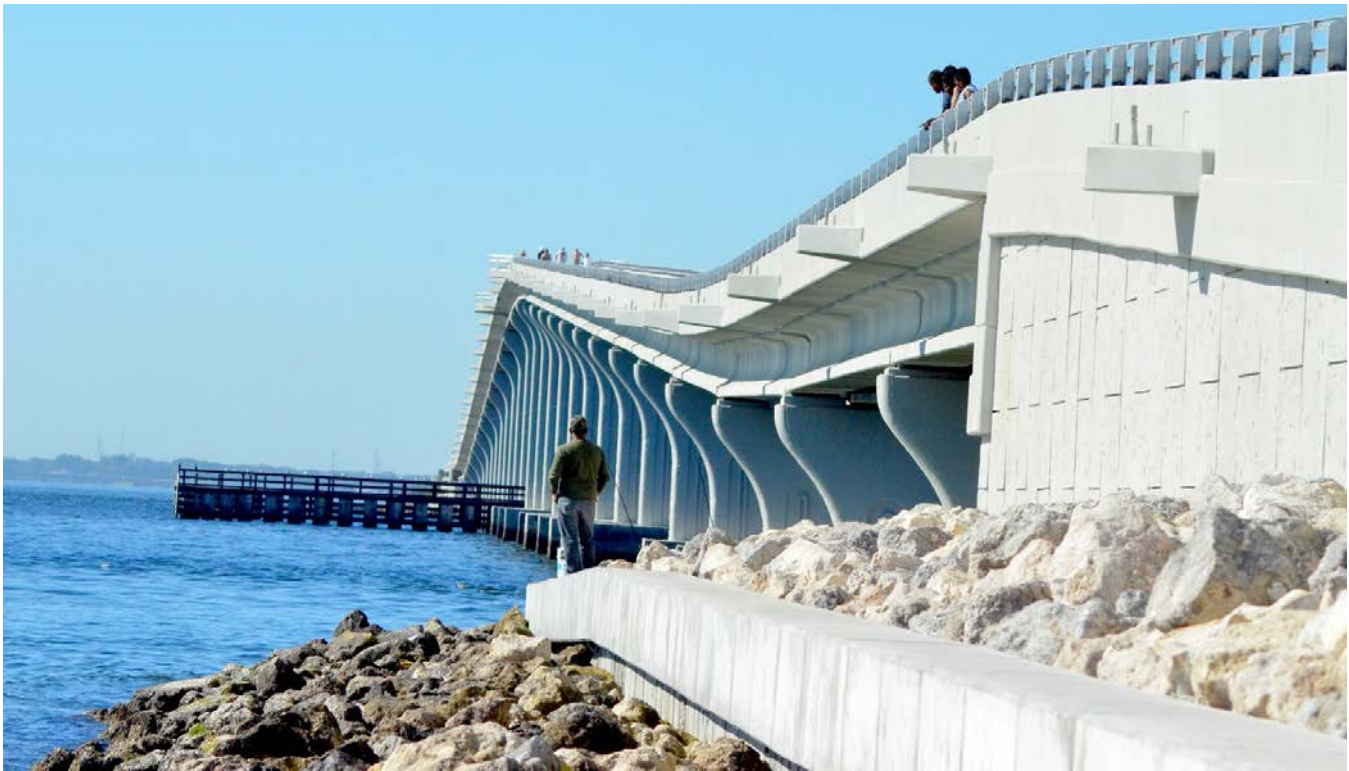
Over the years, we've developed a keen eye for making the best use of the resources available.

When our clients tell us, "Here's what we've got," we have a knack for coming back with thoughtful, detailed plans and solutions that make those same clients exclaim, "Wow, we had no idea all that was possible!"

Committed to the City of New Port Richey

Our team is eager to work with you on this important contract, and we believe we are well-suited to apply our experience and lessons learned from past project successes to complete your projects on time and within budget. **Our team will remain committed throughout the entire study period to provide you with a comprehensive, practical, and actionable plan.**





A Variety of Available Expertise

The following list summarizes many of the primary services and discipline expertise provided by Ayres.

Structural Design + Inspection

Our structural engineering discipline started with founder Owen Ayres himself, and we've spent decades building and reinforcing our team's unparalleled breadth of knowledge and experience in structural design and inspection. We've continued Owen's legacy with an unyielding commitment to safety, quality, and attention to detail. No matter the project, our partners know they can rely on us to deliver results that endure; that represent the best and safest use of a structure; and that demonstrate the most intelligent use of time, resources, and budget.

- Bridges, Buildings, Dams, Culverts & Pedestrian Structures
- Routine, In-Depth, Underwater, Scour & Movable Span Inspections
- Damage Assessment/Natural Disaster Emergency Response
- Dam & Gate Inspection
- Miscellaneous Structures – Walls, Poles, Signs & Foundations





- Fracture Critical Members
- Bridge Load Rating & Analysis
- Feasibility Studies & Rehabilitation Design

Our team excels in assisting local governments in addressing all professional needs for their structural assets. We are currently assisting several counties in that regard, including Seminole County, Osceola County, and Hillsborough County. Since 2017, we have been working with Hillsborough County on routine and emergency inspections, rehabilitation design, bridge replacement design, seawall assessment and repairs, assistance with bid solicitation, needs evaluation and prioritization, and **numerous feasibility studies to determine the best repair or replacement for bridges**. We consider current bridge condition, repair needs and history, material, sustainability, life cycle costs, setting and context classification, traffic projection, and right-of-way to arrive at a recommended course of action for a particular bridge.

Our structural engineers are also familiar with the highly corrosive marine environment of coastal communities. We are adept at providing solutions such as cathodic protection, resistant coatings such as coal-tar epoxy, and use of inert materials including CFRP and GFRP. We keep up to date with the latest innovations and technologies to provide solutions that are sustainable, tried, and cost effective.

Transportation

It's bigger than getting from point A to point B – whether by bridges or bike paths, trails or roadways – and our work starts well before you even begin the permitting process. You want your project to go off without a hitch. Drawing on our wealth of knowledge in traffic analysis, roadway and structure design, and construction observation, we'll provide ideas and insights that will give your project the best chance for success. Working alongside our team of transportation experts, you'll reach point B in a whole new way.

Roadway Design

- Urban & Rural
- Freeway
- Interchange
- Roundabout Analysis & Design
- Staging Concept Development & Traffic Control

Multimodal Design

- Complete Streets
- Sidewalks
- Trails
- Bike Lanes & Buffered Bike Lanes

Traffic Engineering

- Data Collection
- Safety Analysis & Audits
- Signal Operation & Design



- Traffic Modeling
- Neighborhood Traffic Management & Calming
- Traffic Impact Analysis
- Traffic, Speed, & Parking Studies
- School Traffic Operations & Safety Studies
- Signing & Pavement Marking

Construction Engineering

- Observation
- Constructability Reviews
- Staking
- Materials Sampling & Testing

Environmental

- Agency Coordination
- Permitting
- Impact Assessments & Statements

Utilities

- Coordination
- Conflict Evaluation
- Water/Wastewater Design

Miscellaneous

- Grant & Loan Assistance
- Public Involvement

Civil + Municipal Engineering

Much of the work we complete in this industry is all but invisible to the public – and we consider that a sign we've done it well. Problems with pipes, pavement, and property can negatively impact people in a community, on a campus, or in a private business. Our commitment to project success begins well before construction does. For projects above and below ground, from pre-planning onward, you can count on us to help you realize quality design while we also help you find funding, mitigate potential regulatory issues, and develop an intelligent plan to keep your project on time and on budget.

- Streets, Utilities & Lighting
- Water Supply, Treatment & Distribution
- Wastewater Collection & Treatment Systems
- Stormwater Management
- Grant & Loan Assistance
- Land & Site Development

- Municipal Engineering
- Municipal Construction Observation
- Park Planning & Design
- Mining Sites, Wind Farms & Energy Corridors
- Materials Testing
- Environmental Permitting
- Construction Staking
- Complete Streets
- Campuses: Education & Healthcare
- Aquatic Facilities
- Urban Flooding

Telecommunications + SUE

Precise attention to detail is only the beginning. Within our team, you'll also find decades' worth of intellectual data and skill, steadily earned (and further refined) one successful project at a time. We're known for our experienced locate crews, who can find utilities in places others simply can't; for our ability to create accurate plans and designs that save our partners time and money; and for the expertise of our OSP engineers, all with impressive backgrounds from major telecommunication companies. We could say we've got the best in the business, but we prefer to let our work do the talking.

- Cable TV
- Electromagnetic Locating
- Gas
- Ground Penetrating Radar
- Joint Utility Projects
- Subsurface Utility Engineering (SUE)
- Telecommunications
- Utility Mark-ups & Conflict Analysis
- Utility Permitting
- Vacuum Extraction
- Distribution Design
- Collection Design
- Relocation Design & Conflict Abatement
- Utility Coordination
- UWHCA Negotiations
- Utility Work Schedule (UWS) Development

Landscape Architecture

In the landscape realm, function and flow are everything. Before we roll up our sleeves on a new project, we first



take a step back to assess the bigger picture: How can the choices we make serve multiple functions for people using the space? How can we best integrate pieces of the new project with what already exists in the surrounding area? And most importantly – how can what we create leave a lasting impact? By taking the time to make thoughtful choices, we not only have a positive effect on site resiliency and sustainability; we also create spaces that can be used in unique and useful ways.

- 3D Computer Visualization & Animation
- ADA Assessment
- Aquatic Facilities
- Athletic Fields
- Campuses: Education & Health Care
- Comprehensive Planning
- Downtown & Urban Planning & Design
- Ecosystem Services
- Park Planning & Design
- Playground Design & Assessments
- Public Involvement
- Trail Design
- Wayfinding

Geospatial Expertise

Land Survey

- **Horizontal and vertical control surveys:** Provides a unified area-wide base of control points and benchmarks on which to base all project surveys.
- **Design surveys:** Full topographic surveys of roadways and sites to support design projects.

- **Utility surveys:** Obtain current locations of overhead and underground utilities to support design projects.
- **Property surveys:** Support property and easement acquisition and land title transfers including legal descriptions.
- **High-definition laser scanning:** Ground survey lidar to capture 3D point clouds of structures for overhead clearance and detailed information on any type of facility.
- **Stockpile quantities:** Using either HD laser scanning or UAV (drone) technology to obtain current and repeated stockpile quantities for payment.

Aerial Mapping

- **Aerial survey:** Current, up-to-date aerial photos, mapping, and design-grade 3D digital elevation models. Used as a base for project and site design.
- **Aerial photography:** Monitor ongoing development progress and contract compliance by either manned aircraft or unmanned aerial vehicles (UAVs or drones).
- **Mobile lidar:** Detailed, street-level information (including vertical clearances on bridges) along roadways. Safe alternative to survey personnel in heavy traffic.
- **Airborne lidar:** Accurate 3D surface models, higher surface definition than county-wide lidar data available to support design and micro-drainage applications.
- **Pavement condition analysis (crack detection):** Uses a pavement imaging camera and laser illuminator to document roadways to be used for haul routes before and after projects to document pavement conditions.
- **Asset inventory:** Inventory and rate current municipal assets such as utilities and roadways and to update your system with newly constructed assets.



Geospatial Scope of Services/Expertise

- Aerial Imaging
- Aerial & Mobile Lidar
- As-Built Survey
- Asset Management
- Boundary Survey
- Construction Staking
- Digital Orthoimagery
- Electric Transmission Line Corridors
- Electric Utility Survey
- Engineering Design Surveys
- Geodetic Control
- GIS Consulting
- Ground Control
- Land Surveying
- HD Scanning
- Hydrographic Survey
- Impervious Surface Mapping
- Mining Sites, Wind Farms & Energy Corridors
- Photogrammetric Mapping
- Remote Sensing
- Right-of-Way Plats
- Telecom Network & Infrastructure Mapping
- Topographic & Site Survey
- Unmanned Aerial Systems
- USGS Grant Assistance

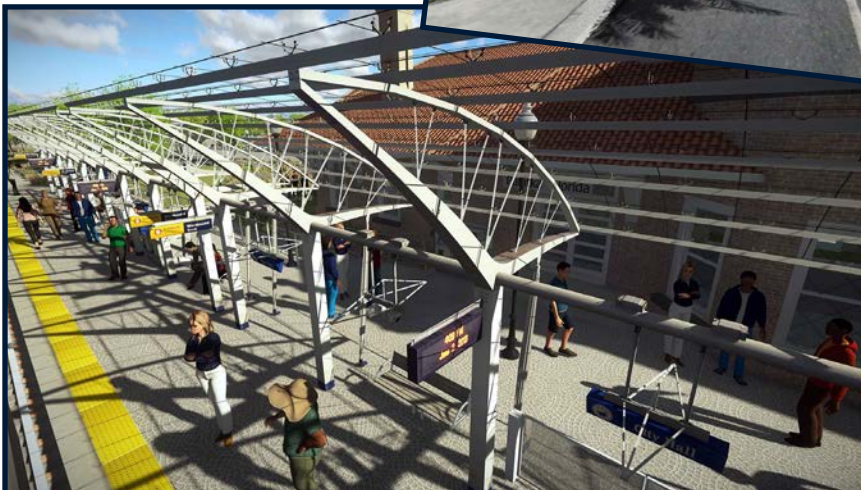
Renderings / Animation

While all our designs are always functionally sound, sometimes details get lost in translation. Making the transition from 2D plan view into something community members can visualize being a part of their neighborhood can be difficult. Our 3D visualizations and associated VR have proven time and time again to help the public better understand the scale of proposed improvements by communicating more than a 2D plan drawing could possibly ever do. This dynamic and engaging process provides more productive feedback from the public and a better understanding of the proposed improvements. As a result, this saves everyone valuable time and resources. The Ayres team has developed highly accurate renderings and VISSIM microsimulation models for use during public information meetings. Renderings allow people to see into the future.



**East Columbus Drive,
City of Tampa**

**Bermuda Boulevard,
City of Tampa**



**Transportation Hub,
City of Palatka**

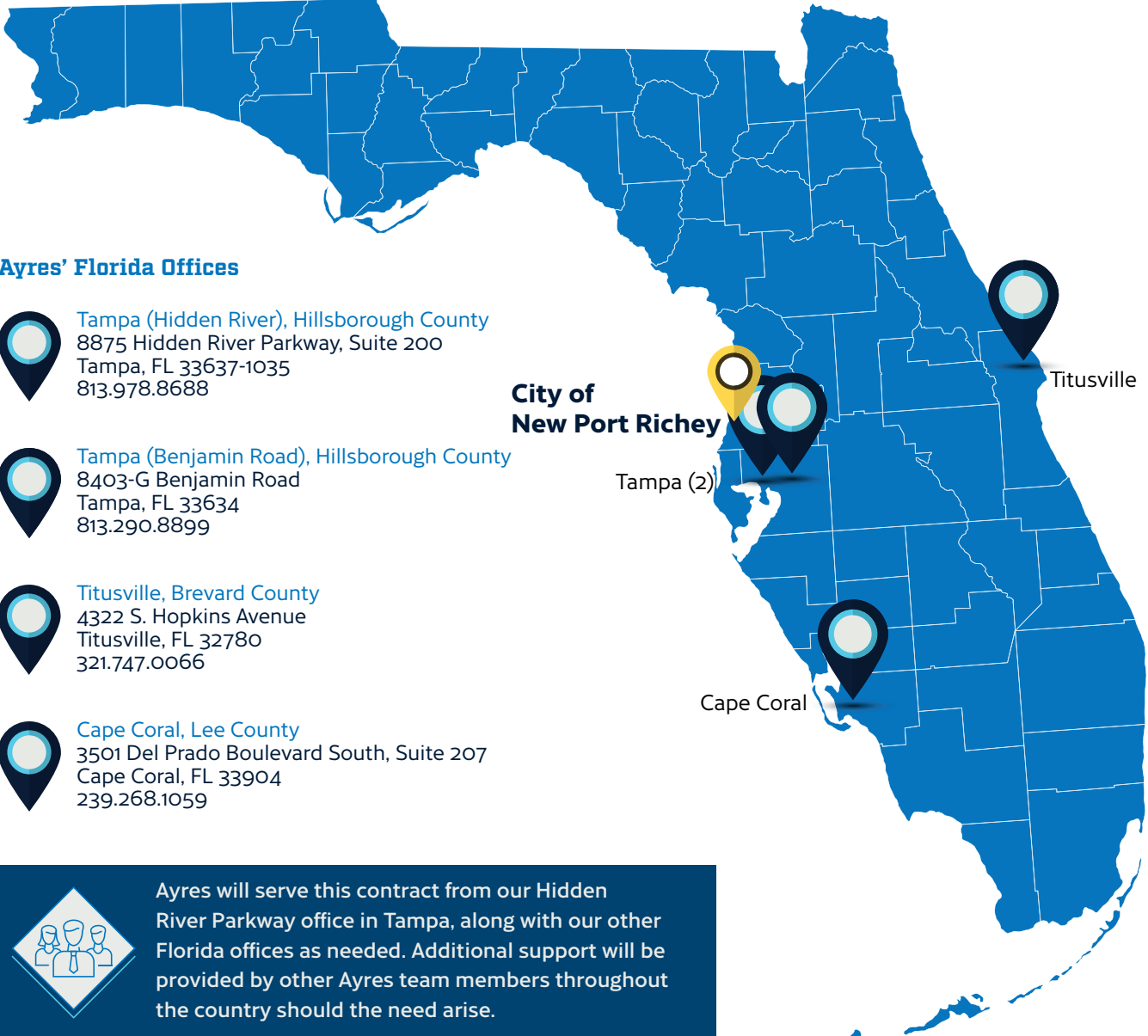
Where We Work

Ayres serves a variety of clients of all sizes, completing projects ranging from permit assistance to complete design-builds. The following table lists our current clients in the Southeast region. None of them pose a conflict of interest for completing this feasibility study.





Ayres' Clients – Southeast Operations	
AT&T	Hillsborough County
Central Florida Expressway	HNTB
CenturyLink	LARS Engineering
CHW (City of Ocala)	Lee County
City of Crystal River	Manatee County
City of Madeira Beach	Osceola County
City of New Port Richey	Pasco County
City of Palatka	Pinellas County
City of Pinellas Park	Putnam County
City of Port Richey	Seminole County
City of Tampa	St. Johns County
Conсор (Florida Turnpike)	TECO Peoples Gas
Florida Department of Environmental Protection	Town of Fort Myers Beach
Florida Department of Transportation	TranSystems
Flagler County	University of South Florida
Florida Drawbridges, Inc.	City of Wildwood
Frontier	WSP
Hillsborough Area Regional Transit Authority	



Office Location



Ayres' Florida Offices


-  **Tampa (Hidden River), Hillsborough County**
8875 Hidden River Parkway, Suite 200
Tampa, FL 33637-1035
813.978.8688
-  **Tampa (Benjamin Road), Hillsborough County**
8403-G Benjamin Road
Tampa, FL 33634
813.290.8899
-  **Titusville, Brevard County**
4322 S. Hopkins Avenue
Titusville, FL 32780
321.747.0066
-  **Cape Coral, Lee County**
3501 Del Prado Boulevard South, Suite 207
Cape Coral, FL 33904
239.268.1059

City of New Port Richey

Tampa (2)

Titusville

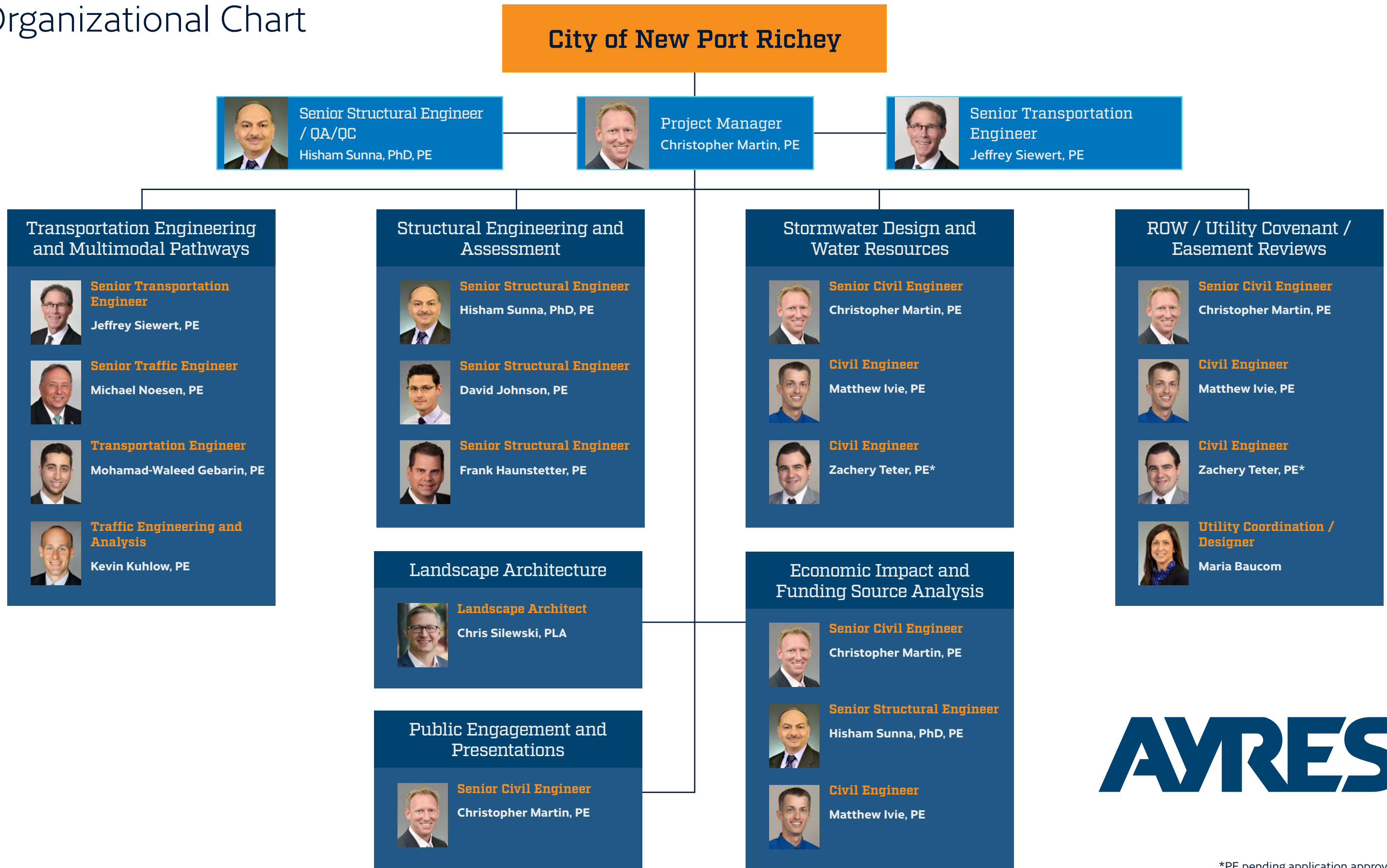
Cape Coral



Ayres will serve this contract from our Hidden River Parkway office in Tampa, along with our other Florida offices as needed. Additional support will be provided by other Ayres team members throughout the country should the need arise.



Organizational Chart



*PE pending application approval



We pride ourselves on providing the skill, experience, and capabilities of a large firm with the down-to-earth feel of a small one. You can rely on us to provide creative solutions to your problems, maximize your budget, and masterfully navigate regulations – all while building and continually investing in a strong, lasting relationship.

Project Management/ Approach

Project Understanding / Staff Expertise

Ayres' Southeast Operations has 22 structural design and inspection professionals. That expertise coupled with strong connections with local contractors specializing in pedestrian bridge construction will afford the City the highest level of feasibility analysis and accurate construction cost estimating.

Our structural team is supported by expert roadway designers who are very familiar with FDOT District 7. We also recently completed a segment of US 19 landscape improvements.

The Ayres team is eager to demonstrate our unique understanding to solve the design constraints evident at the Marine Parkway and US 19 intersection and develop a feasibility report inclusive of all factors influencing the improvement, offered in a report rich in graphics and renderings, and concluding with an estimate of proposed construction costs.

It is our understanding that this improvement has the opportunity to be the “gateway” to the City, and aesthetics, landscape architecture, and safety will be paramount. Our team's unique understanding of utilities in the area and in-house utility design teams will abate unnecessary relocations.

We also have a team adept in public presentations, and we understand the need to present data graphically, via renderings and animations, to convey project ideas to non-technical audiences.



Existing walkway that terminates at US 19

Structural Engineering Expertise

The Ayres team is prequalified with FDOT for Work Types 4.1.1, 4.1.2, and 5.4 for Miscellaneous Structures, Minor Bridge Design, and Bridge Load Rating, respectively.

Ayres is prequalified for all bridge inspection Work Types (5.1, 5.2, and 5.3) and is experienced in emergency type situations. Ayres is committed to staffing this contract with qualified personnel through the duration.

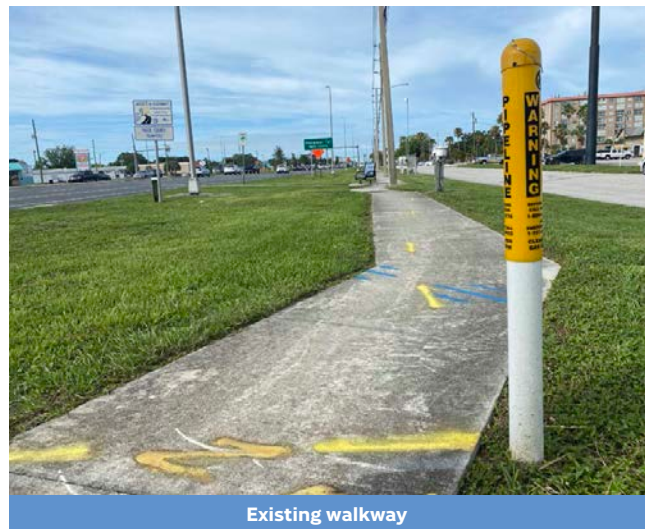
The Ayres team has provided design and construction bid documents for many types of structures for repair, rehabilitation, and new or replacement projects. We focus on public safety, ADA/pedestrian accessibility, maintaining freeboard/vertical clearance, reducing inconveniences to motorists and pedestrians, minimizing environmental and utility impacts, and mitigating encroachment on right-of-way.

Resilience Factors into Feasibility

Ayres understands the importance of sustainability and resiliency and the challenges in providing an infrastructure design that will last into the future. Vice President of Southeast Operations, Subrata Bandy, PE, is the Director of Sustainable Transportation at the Patel College of Global Sustainability of the University of South Florida. He is keenly aware of the issues that will affect transportation projects. Every project needs to be evaluated to make sure it is the correct project to build and then to build it to appropriate parameters. A holistic approach is necessary now to ensure the projects will



Marine Parkway/US 19 intersection



Existing walkway

continue to function into the future. This could entail items such as constructing seawalls to higher elevations and evaluating corridors and street networks for the right projects to raise roadways above flood elevations while maintaining floodway connectivity. Bridges are routinely designed to provide flood clearances but will be of no use if the roadway network is inundated or the roadway base compromised.

Ayres has been performing structural engineering services with a focus on bridges through our Hillsborough County Bridge Asset Management contract and Seminole County Structural Engineering master contract. We provide structural evaluations of County bridges, reviewing inspection reports, verifying deficiencies in the field, and preparing repair and rehabilitation plans to address the deficiencies and extend the useful life of the structures.

For new bridges, a load rating analysis is included with the design submittals. However, for older bridges, load ratings may be required due to changes in the bridge configuration or where additional wearing surface has increased the load. Load ratings are typically straightforward when bridge plans are available but require assumptions on design vehicles and material strengths if plans are not available.

Ayres has provided numerous load ratings for both cases. In fact, we assisted FDOT with the development of the load rating routines for its box culvert Mathcad program and are currently assisting FDOT District 2 in updating

hundreds of their older load ratings of local government bridges to current LRFD load rating requirements.

Experts from Start to Finish

The Ayres team provides engineering expertise for new and replacement structures covering all facets of the design and construction document process, including services for surveying and mapping, geotechnical investigation, environmental assessments and permitting, utility coordination, roadway design, maintenance of traffic control plans, signals, lighting and pavement design, drainage design, and bridge hydraulic and scour evaluation, as well as preparing and providing for public involvement, outreach, and meetings to keep interested parties aware of proposed impacts.

The Ayres team has the structural and engineering staff that will adequately provide for the necessary tasks of new facilities and is experienced in many types of structures. The Ayres team has provided projects from initiation to completion for FDOT and local government agencies while providing Concept Reports, Bridge Hydraulic Reports, Bridge Development Reports, Permit Application packages and final plan, specification, and bid submittals. We have also coordinated with FDOT on Local Agency Program (LAP) projects and are familiar with the required FDOT specifications for those projects.

Project Management and Quality Control



Our QA/QC plan generally follows in-house established procedures and FDOT guidelines outlined in the Plans Preparation Manual. QA/QC for plans and calculations will follow color-coded reviews.

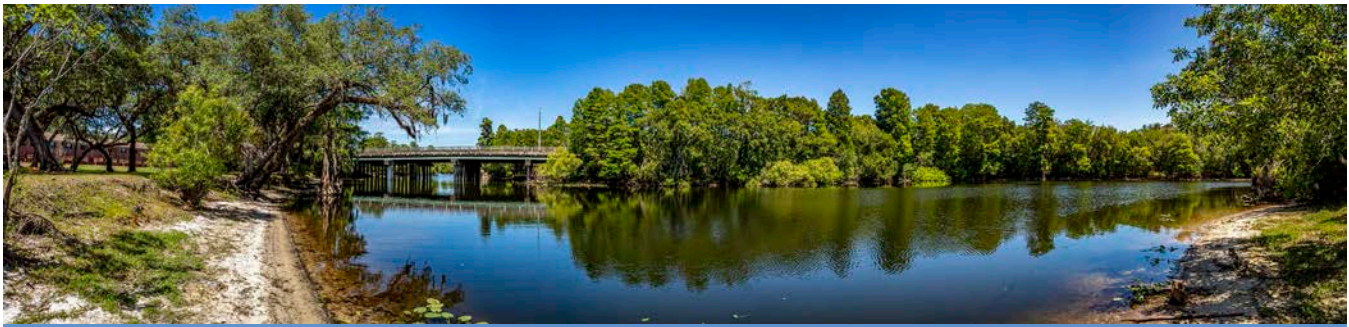
Schedules are maintained and verified by daily review from the project manager or task leaders using the project management software Deltek Vision, as well as by tailored project planning spreadsheets detailing the current status of the project. The City will also be informed of the status of the study with bi-weekly progress reports. All communication will either go through the project manager, or he will be copied in

QA/QC Approach Summary	
1.	QA is fully addressed via Ayres' internal project work plan process.
2.	Formal QC process is done on all calculations/reports/plans.
3.	All team members are responsible every day to provide quality.
4.	Subconsultants must comply with Ayres' QA/QC standards and requirements as a minimum.
5.	Project manager and QA/QC manager review and address phase submittal review responses.
6.	Independent review process is implemented.
7.	Constructability review is conducted, providing a fresh set of eyes before the final submittal.
8.	Use of standard color code methodology (red-yellow-green) for hard copies or Bluebeam Revu markups for shared electronic copies.
9.	Signed certification by discipline/back checker/project manager/QA/QC manager.
10.	Reports/plans are not submitted unless the QA/QC manager has approved and signed off.

on the progress of the project in order to document decisions made and actions taken.

Ayres offers a comprehensive QA/QC process that is practiced by all levels of the project team. The level of QA/QC necessary to maintain reliable and accurate recommendations and designs will be implemented based on project scope, complexity, budget, and schedule requirements for projects assigned to Ayres.

Ayres has an established cost control program to see that the project, as designed, will be constructed within the agreed-upon budget. The engineer's updated cost estimate is compared with the project target cost at the specified stages of design completion. If the project appears to be over budget, the design is reviewed to determine changes that can be made to reduce project cost without reducing satisfaction or project function.



Fletcher Avenue Bridge, Hillsborough County

- Qualification and Documentation of Computer Programs:** All calculations, software, and models used for complex decision-making processes are fully checked for errors, qualified, and validated before use on a project.
- Control of Measurement Data:** The quality of field measurement and analytical laboratory data is controlled through a system of project-specific planning, laboratory subcontracting procedures, standard operating procedures, and quality control checks.
- Document Control and Record-Keeping:** Our records management program has been designed and implemented so that project records are readily retrievable.
- Subcontractor Management:** Our management system for subconsultants is designed to see that the requirements for the procured service(s) are clearly defined, achievable, and consistent with project objectives.
- Engineering Design Quality Management:** Our engineering design procedures define the QA/QC activities associated with setting the design basis (30%, 60%, 90%, 100%, and final), producing design drawings, and engineering specifications.

Value Engineering



Value engineering is performed throughout the design process to make sure the City is getting the most efficient use of its construction dollars. If at any time during the project it is determined that the project

Why Ayres? Ayres is a nationwide team of experts and innovative problem-solvers. We stand behind thousands of our projects that strengthen communities and our country's infrastructure, economy, and environment every day. Ayres' five core values are more than simple statements; these are the values that drive the decisions we make as partners each day:

1 Smart, creative solutions. Through completion of thousands of projects nationwide, we've developed the knowledge necessary to solve challenges in new and creative ways, always with a keen and resourceful eye toward timeline and budget.

2 Clients as partners. From the first handshake forward, we invest as much time into the strength and stability of our partner (client) relationship as we do into the projects themselves. Our partners know they can count on us, year after year.

3 Business with integrity. It's about treating our partners in a way that shows them how much we value their trust, and how greatly we value our relationship with them. We hold tight and true to delivering what we promise.

4 Challenge, support, and recognize our employee owners. Each member of our team is personally invested in the success of what we do. We recognize and reward their commitment with opportunities to develop long and fulfilling careers.

5 Commitment to community. We live, work, and play in many of the communities we serve. They're part of our success, and we're proud to help where we can.

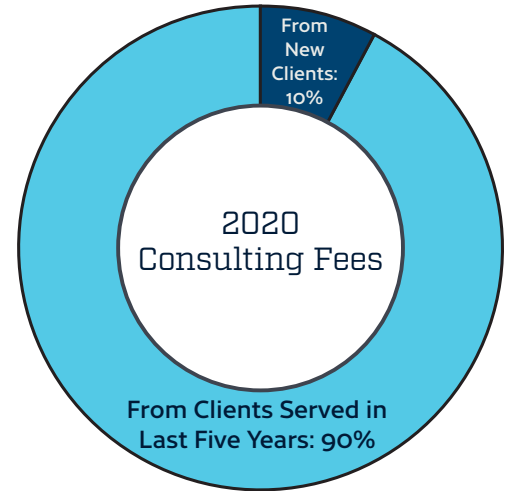
design cannot be modified without adversely affecting function, Ayres will immediately notify the City. A means of satisfying budget requirements will be discussed, and action will be taken to bring the costs within budget requirements.



Over the years, we've developed a keen eye for making the best use of the resources available. When our clients tell us, "Here's what we've got," we have a knack for coming back with thoughtful, detailed plans and solutions that make those same clients exclaim, "Wow, we had no idea all that was possible!"

Section 2: References

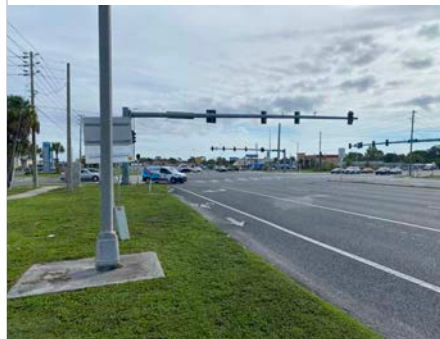
Our experience has shown us that close and open communication with our clients is the foundation for a successful working relationship. We place a high priority on understanding our clients' needs, openly addressing issues, involving clients in decision-making, and resolving project concerns.

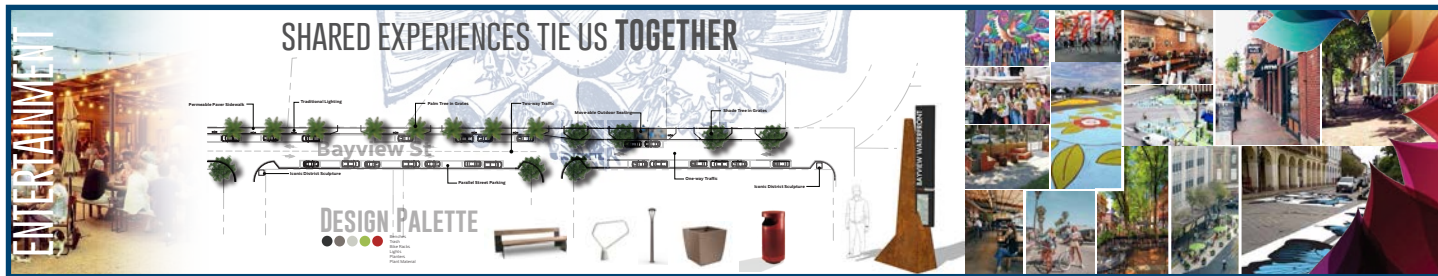
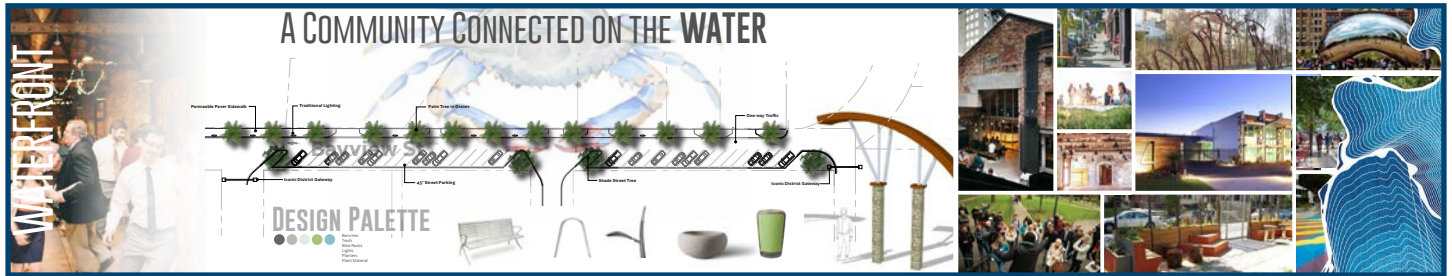
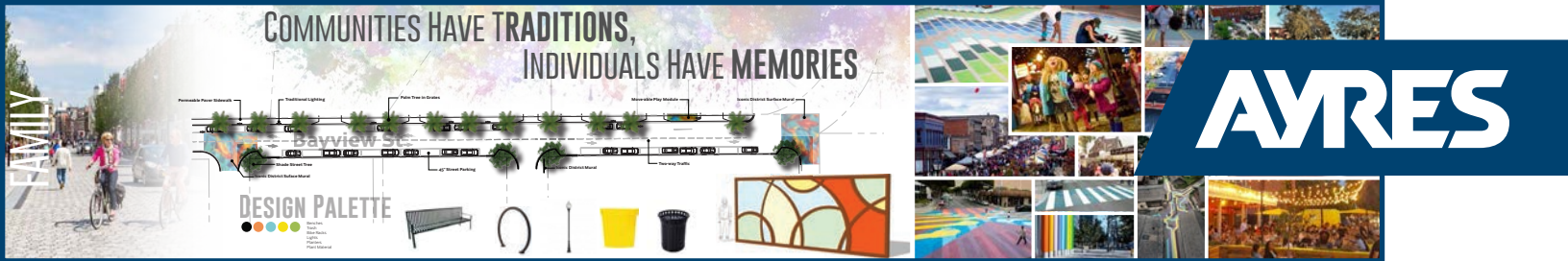


In every project we undertake, our goal is client satisfaction.

The quality of our services is demonstrated by the extent of repeat business we enjoy from our clients; we believe this is a true reflection of our clients' satisfaction toward our overall performance. Approximately 90% of our 2020 revenues came from clients we had served within the previous five years. We invite you to contact the references listed for firsthand accounts of our work.

The following project profiles showcase our structural engineering and feasibility study expertise.





COTEE RIVER LANDING

Port Richey, FL

Ayres was contracted by the City of Port Richey to perform the Cotee River Landing Feasibility Study based on the objectives outlined in the City's 2020 Comprehensive Plan. The goals presented are as follows:

- Provide safe and efficient multimodal transportation within the project area.
- Enhance retail and recreational components.
- Preserve and emphasize the historical character as a Fisherman's Village.
- Develop an identity as the cultural and entertainment epicenter for the City.
- Identify potential land development regulations to support a consumer-oriented region without sacrificing historical character, environmental quality, and natural landscape.
- Identify potential land uses focused on the development of residential areas.
- Identify public and private responsibilities.
- Establish a plan to procure local, state, and federal funds.

The City of Port Richey has worked with many State and Federal agencies, private service providers, and its residents

Enhancements

- ✓ Pedestrian Accessibility
- ✓ Roadway and Parking
- ✓ Site and Street Lighting
- ✓ Landscape and Hardscape
- ✓ Pedestrian and Gateway Signage
- ✓ Nick's Park and Boat Ramp Improvements

to create a local and accessible waterfront destination to service residents and visitors in

Contact: John Dudte, City of Port Richey, 6333 Ridge Road, Port Richey, FL 34668; 727.816.1900

the Gulf Coast region and Greater Tampa Bay Area — keeping in mind that the Waterfront District is the biggest asset and most valuable natural resource of the City itself.

These improvements will enhance ease of mobility to the surrounding communities and public access within the area. Design and construction of the proposed infrastructure improvements are aimed to amplify and promote urbanization of the waterfront to create a vibrant destination for residents and visitors alike.



CROSS SEMINOLE TRAIL PEDESTRIAN OVERPASS OVER RED BUG LAKE ROAD

Seminole County, FL

American Bridge retained Ayres to perform final structural and civil design services for a pedestrian overpass over Red Bug Lake Road near the intersection of SR 426, along with a new section of paved trail. The design-build project involved site clearing, foundations, and structural and architectural components.

Contact: David Martin, Seminole County, 500 W. Lake Mary Blvd., Sanford, FL; 407.665.5610

The pedestrian bridge links two major segments of Seminole County's 25-mile Cross Seminole Trail. Before the overpass opened, trail users were stopped by the busy intersection at Red Bug Lake Road and SR 426. Now they can safely cross the eight lanes of heavy traffic using the 873-foot pedestrian overpass, which has a 170-foot-long main span, a total bridge length of 735 feet, and approaches on each end. The overpass opened in June 2012 – three months ahead of schedule and about \$700,000 under budget.

The size of the structure was the project's most significant challenge. It is the longest single-span prestressed concrete pedestrian structure in Florida. At 200,000 pounds each, transporting the beams from the manufacturer presented its own challenges. **The Florida Institute of Consulting Engineers awarded the Red Bug Lake Road Overpass project its 2013 Honor Award for excellence in engineering.**



Section 3: Project Team



Ayres is well-suited to perform New Port Richey's pedestrian/bridge feasibility study. Our firm has been providing engineering and planning services since we first established an office in Tampa more than 30 years ago. Since that time, Ayres

has left an imprint throughout the Tampa Bay area with award-winning projects and functional improvements for residents, tourists, and many others.

A key element of consideration in selecting a consultant for this study includes familiarity with key City staff and your infrastructure via previous experience. We believe our successful relationship with the City developed through our existing contracts, bolstered by our extensive public-sector and individual project experience, provides a professional engineering services firm the City can trust.

We believe we have the perfect team to perform this study and ultimately carry it through the design and construction process. Following are brief bios of our key personnel who will manage this project.

Christopher Martin, PE, Project Manager



Chris is an experienced civil, utility, and roadway engineer. His utility expertise includes water, wastewater, and reclaimed pipelines. He also has demonstrated expertise on telecommunications, gas, power, and fiber facility relocation design.

This includes providing detailed conflict analysis, relocation design, and formulating utility work schedules. Chris also has experience with feasibility studies, having led the recent Cotee River Landing study for nearby Port Richey. As your project manager, Chris will lead the study team and utilize his transportation construction experience – including design and inspection

services on numerous state and federal highway construction projects – to ensure no opportunities are overlooked and New Port Richey receives an actionable, realistic feasibility report.

Hisham Sunna, PhD, PE, Senior Structural Engineer / QA/QC



Hisham has more than 28 years of experience in structural engineering. Hisham holds master's and doctoral degrees in structural engineering and is responsible for bridge analysis and design and the preparation of plans, structural evaluations, and reports. He specializes in the design of vehicular bridges and pedestrian and bicycle overpasses. He is considered an expert in the stability analysis of bridges impacted by scour, having been involved in the scour evaluation program for the past 25 years and having contributed to analysis methodology for both known and unknown foundation bridges. e also oversees structural design and inspection groups and provides quality assurance of inspection reports.

Hisham will lead the structural engineering facets of the study and serve in a QA/QC role.

Jeffrey Siewert, PE, Senior Transportation Engineer



Jeff is a senior project manager in Ayres' Southeast transportation group. He offers more than 32 years of experience on Florida transportation and civil engineering projects. Jeff's project management and design experience includes extensive Florida Department of Transportation interchange, interstate/expressway, and multimodal/complete streets projects. His municipal project experience includes roadway, sidewalk, trail, stormwater, and streetscape design. Jeff has a passion for Complete Street and roadway repurposing and is an advocate for innovative improvements while keeping safety top of mind.

Project Team - Key Personnel

Key Personnel	Role
Christopher Martin, PE	Project Manager
Hisham Sunna, PhD, PE	Senior Structural Engineer / Quality Assurance/Quality Control
Jeffrey Siewert, PE	Senior Transportation Engineer

Feasibility Study Team

The table and bios below highlight our uniquely qualified additional project team members who can be called upon to provide expertise in any discipline that may be required.

Project Team - Additional Personnel	
Key Personnel	Role
David Johnson, PE	Senior Structural Engineer
Frank Haunstetter, PE	Senior Structural Engineer
Michael Noesen, PE	Senior Traffic Engineer
Mohamad-Waleed Gebarin, PE	Transportation Engineer
Kevin Kuhlow, PE	Traffic Engineering and Analysis
Matthew Ivie, PE	Civil Engineer
Zachery Teter, PE* (pending application approval)	Civil Engineer
Maria Baucom	Utility Coordination / Designer
Christopher Silewski, PLA	Landscape Architect

Team Bios

David Johnson, PE, *Structural Engineering*



David's experience includes the design of bridges, retaining walls, and culverts on small to mega projects. His bridge design work includes working with prestressed concrete, steel, and reinforced concrete in new and rehabilitation work. He provides calculations, detailing, cost estimates, specifications, concept reports, client coordination, and quality assurance/quality control.

Frank Haunstetter, PE, *Senior Structural Engineer*



Frank is a senior structural engineer who has been providing structural engineering and bridge inspection, rehabilitation, and repair services in Florida since 1996. His vast experience benefits clients including the Florida Department of Transportation (FDOT) and municipalities around the state. Frank has provided structural design for flyover bridges, new multi-span pre-stressed girder bridges, interstate bridge widenings, and bridge repairs. He has also completed bridge and sign structure inspections, post-hurricane inspections, load ratings, bridge repair prioritization, and repairs on bridges and retaining walls. Frank is skilled in

the use of MicroStation, STAAD, AutoCAD, LEAP Bridge Concrete, Open Bridge Modeler, Open Bridge Designer, SmartBridge, and FDOT Structures Design Programs.

Michael Noesen, PE, *Senior Traffic Engineer*



Mike offers clients well over three decades of experience in the management and design of urban and rural roadway projects as well as lighting and signalization. He's been in Tampa for the past 31 years working on projects for the Florida Department of Transportation and county, city, and private clients. He also has experience in PD&E studies, ITS, transit design, and value engineering.

Mohamad-Waleed Gebarin, PE, *Transportation Engineer*



Mohamad has over five years of previous experience in design and the development of roadway construction plan sets in conformance with the design standards of the Florida Department of Transportation (FDOT), the American Association of State Highway and Transportation Officials (AASHTO), and the Manual on Uniform Traffic Control Devices (MUTCD). Mohamad has worked on large and small teams completing resurfacing, restoration, and rehabilitation projects and major design-build projects for FDOT District

7 and surrounding communities. Mohamad has recently completed the design and plans development for two City of Tampa complete streets LAP projects. He will be a large asset to the team as the roadway design lead.

Kevin Kuhlow, PE, Traffic Engineering and Analysis



Kevin is a senior project manager and transportation group leader with over 24 years of experience. He is a leading U.S. roundabout expert who has focused on roundabouts for the past 20 years, including feasibility studies, operational analysis, design, review, construction observation assistance, and training. He has been involved with developing hundreds of roundabouts throughout North America since 2000, ranging from single-lane roundabouts to complex three-lane roundabouts. Kevin's skills include analysis and planning; direct roundabout design; design review and mentoring; public involvement; and roundabout design training. Kevin will lead the traffic analysis aspects of this project.

Matthew Ivie, PE, Civil Engineer



Matthew is experienced in civil site design, drainage and stormwater design; water, wastewater, and pumping station facilities design; regulatory permitting; plan preparation; and utility relocations. He has served as both a project manager and a designer. As a member of Ayres' municipal engineering group, his civil design work includes pavement, site, sewer and water mains, roadways, utilities, and parks. Matthew also provides field inspection and construction observation services. He was chairman of the Pinellas County Utility Group for 2019-2020. He is proficient in many modeling programs including AdICPR, WaterCAD, AutoCAD, and ArcGIS. For this project, Matt will provide insight into any stormwater, drainage, and permitting needs.

Zachery Teter, PE, Civil Engineer



Zachery joined Ayres' municipal engineering and construction engineering inspection staff in January 2019. Zachery provides design on projects involving pavement, sewer, water mains, roadway, utilities, urban community facilities,

and passive nature parks. He performs hydrologic and hydraulic calculations and stormwater management plans and works on site civil projects for private and public sector clients. He assists with permitting and performs field inspections and construction observation.

Maria Baucom, Utility Coordination / Designer



Maria has more than 24 years of experience and utility coordination expertise with FDOT, Pinellas County, and Hillsborough County projects. Duties include scheduling utility meetings at all phases of design; identifying and resolving conflicts; maintaining communication and establishing working relationships with the Department/County/utility agency owners; preparing utility plans for construction; and completing utility work schedules. Maria completed the Florida Utilities Coordinating Committee's Design, Regulations and Agreements, Utility Coordination, and Construction Management modules. Maria attends the monthly Utility User Groups locally and is the Ayres liaison to Greater Tampa User Group among other user groups.

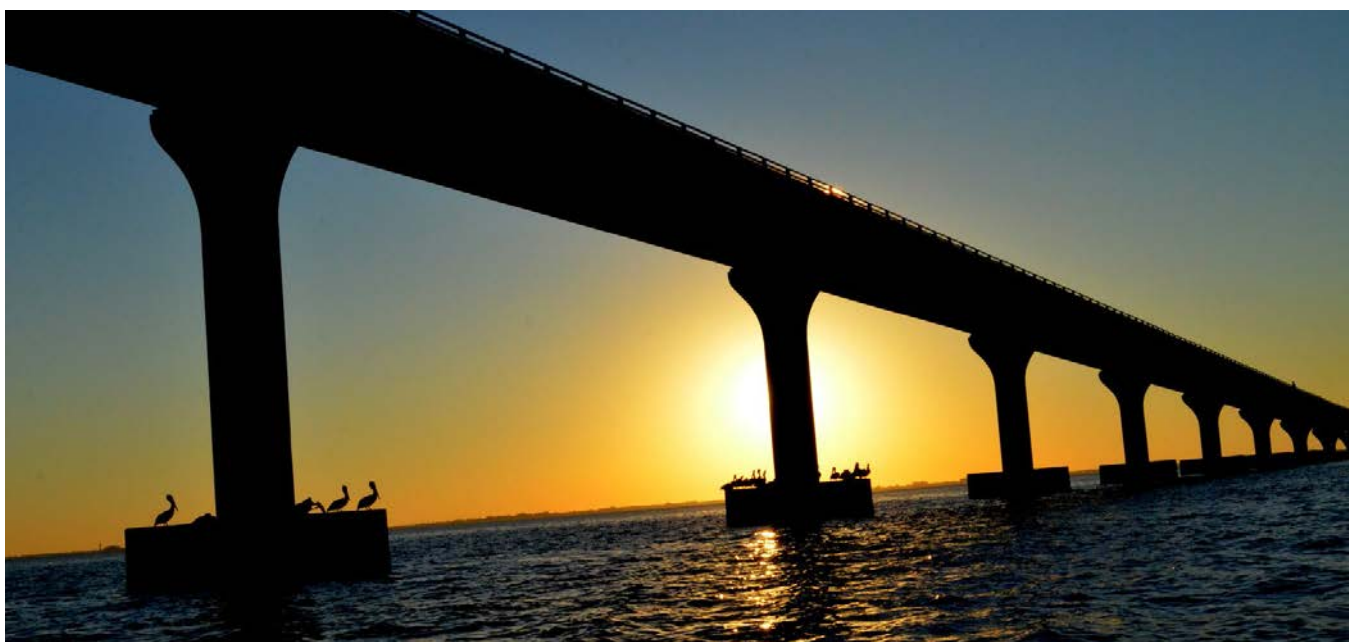
Chris Silewski, PLA, Landscape Architecture / Urban Design



Chris brings creative and thoughtful input into the design process from conception to construction. Over the past 10 years, he has focused on creating dynamic, place-specific designs that incorporate a sense of wonder. His innate interests in community outreach, local typology, art, ecology, and regional design make him a valuable resource to any project aimed at engaging the public in creating a place-specific destination. This creative approach is balanced by his priority of analyzing existing conditions and discovering how a site's assets can accentuate and dovetail with the project goals and objectives. You can rest assured no opportunities are overlooked in Chris' engaging design process.

Feasibility Study Team Expertise Matrix

Ayres’ Multidiscipline Project Team Experience	Feasibility / Due Diligence Studies	Bridge / Structures Design	ROW / Utility Covenant / Easement Reviews	Economic Impact Analysis	Implementation Strategy / Cost Estimates	Drainage / Stormwater Study & Design	CEI / Contract Administration	Subsurface Utility Engineering	PD&E & Preliminary Engineering Studies	Roadway / MOT / Signing & Marking	Pavement Design	Signalization / Lighting Design	Park Planning / Master Planning	Transportation / Traffic Modeling & Studies	Recreational Trail Design	Funding Analysis / Grant Funding Assistance	ERP Permitting	Public Engagement
	Christopher Martin, PE	●		●	●	●	●	●	●		●	●		●	●	●	●	●
Hisham Sunna, PhD, PE	●	●		●	●		●		●		●		●	●	●	●	●	●
Jeffrey Siewert, PE	●		●		●		●	●	●	●	●		●	●	●		●	●
David Johnson, PE	●	●					●						●		●			●
Frank Haunstetter, PE		●																
Michael Noesen, PE									●	●	●	●		●				
Mohamad-Waleed Gebarin, PE	●		●							●	●	●		●	●		●	●
Kevin Kuhlow, PE									●	●	●	●		●				●
Matthew Ivie, PE	●		●	●	●	●				●	●			●		●	●	
Zachery Teter, PE*	●		●			●				●	●					●		
Maria Baucom			●					●		●				●			●	
Christopher Silewski, PLA	●						●						●		●			●



Availability

Current & Projected Workload



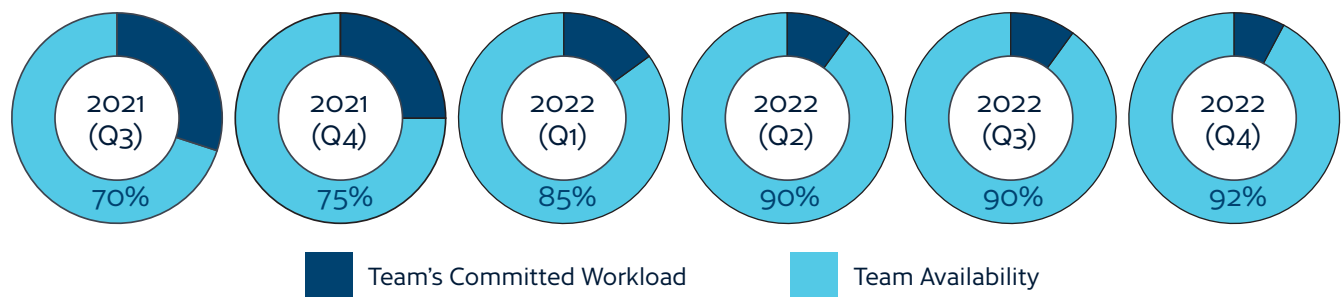
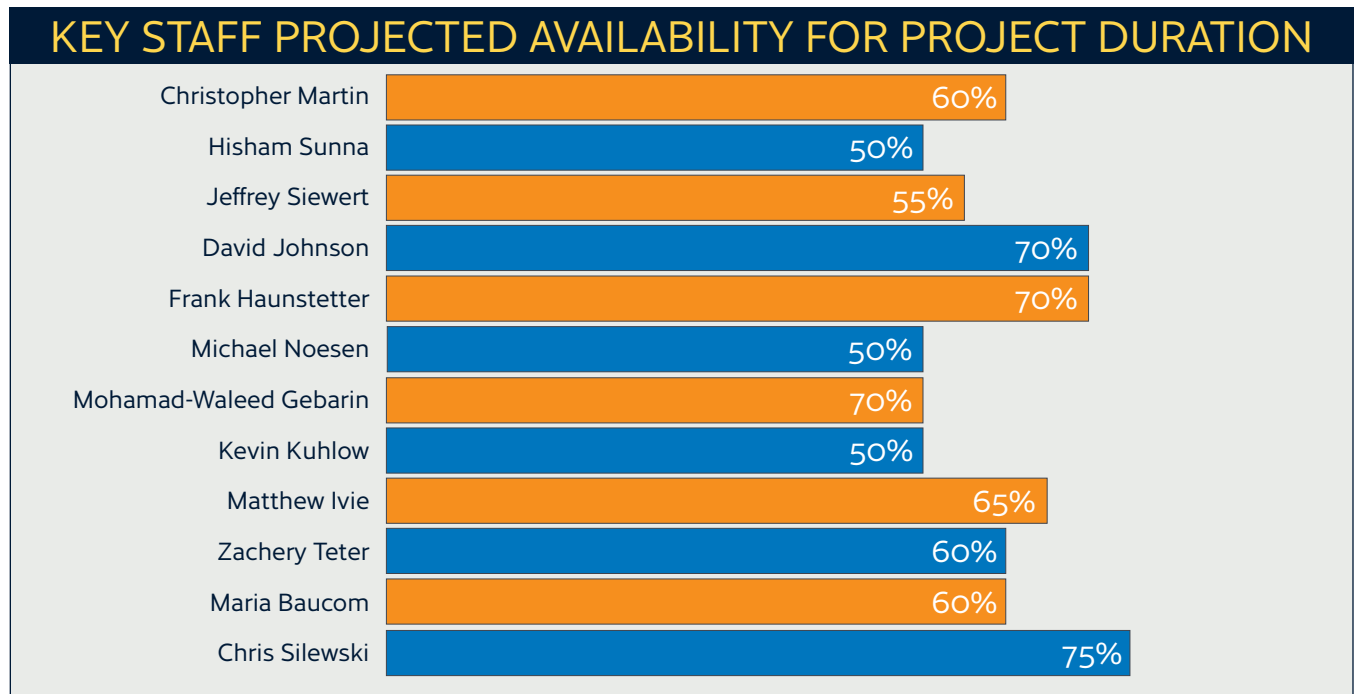
We understand the importance of fulfilling our commitments to all clients regarding production and delivery schedules. We have built a strong reputation for negotiating fair schedules and for treating each project with equal importance, no matter how large or small.

In preparing our submittal, we have estimated the resources necessary to complete all project tasks on schedule. Appropriate resources have been assigned to these tasks, and we will continually assess the staffing and equipment resources as work is completed. The team will adjust these resources as needed to complete the work in accordance with the negotiated schedule.

Staffing Commitments

Ayres updates workload and projected workload data monthly to maintain high accuracy. Projected workloads for the period concurrent with your project allow us to state with confidence that ample staff and equipment allocation will be made to meet your proposed schedule. All members of our project team will be available upon notice to proceed and will commit the resources required for your project, and Ayres is able to mobilize additional resources if the project demands it.

The following chart details Ayres' key project team members' current and projected commitments and their percentage of time available to complete the necessary tasks for your project. We will be assisted by experts from our local subconsultants who have worked seamlessly with us on past City projects and other projects around the Tampa Bay area.



Appendix #1 – Resumes



Christopher Martin, PE

Project Manager

Chris is an experienced environmental, utility, and roadway engineer. His utility expertise includes water, wastewater, and reclaimed pipelines. He has also demonstrated expertise on telecommunications, gas, power, and fiber facility relocation design. This includes providing detailed conflict analysis, relocation design, and formulating utility work schedules. Chris also has transportation construction experience. He has provided design and inspection services on numerous state and federal highway construction projects. Throughout these projects, he has trained in all divisions of roadway construction, including survey, base, paving crews, estimating, and laboratory testing.

Total Experience

24 Years

Registrations

Registered Professional Engineer, FL

Certifications

Paving Level 1 Certification

Certified Building Contractor

Certified Underground Utility Contractor

Education

BS, Civil Engineering, University of Florida

Select Experience

City of New Port Richey Permit Review: Project manager. Project involves serving as city engineer for City of New Port Richey, providing development reviews, on-call services, and other engineering expertise as needed. Services include reviewing projects that pass through development review process for code compliance. Reviews include stormwater, utility, traffic, and development regulation. Ayres issues letters of noncompliance for applicants to correct before permit issuance. Duties include attending regular Development Review Board meetings and other city meetings when needed.

City of Port Richey Waterfront Overlay District Feasibility Study (Cotee River Landing): Project manager. Project began with Cotee River Landing Feasibility Study based on objectives outlined in City's 2020 Comprehensive Plan. Among the goals are to provide safe, efficient multi-modal transportation; enhance retail/recreational components; preserve/emphasize historical character as Fisherman's Village; identify potential land development regulations and land uses; establish plan to procure funding. Improvements will enhance ease of mobility to the surrounding communities and public access within the area. Design and construction of the proposed infrastructure improvements are aimed to amplify and promote urbanization of the waterfront to create a vibrant destination for residents and visitors alike.

University of South Florida New Entry/Laurel Drive Extension: Project manager. Project involved engineering services for design-build of \$6.4 million new entryway to University of South Florida Tampa campus. In addition to roadway/entryway improvements, project included design of sanitary sewer lift station serving newly constructed housing known as The Village as well as complete utility relocation design and coordination. Services include design and construction of new entryway off Fletcher Avenue, four-lane roadway extension, bike lanes, a roundabout, surface parking, utility relocation, utility coordination, site improvements, signalization, signing and marking, and landscaping improvements.



Hisham Sunna, PhD, PE

Senior Structural Engineer / QA/QC

Hisham is manager of Ayres' structural engineering and inspection groups in Florida, serves as a chief structural engineer, provides project management and work oversight, and performs quality reviews. He has managed numerous continuing services type contracts for the Florida Department of Transportation (FDOT) and local governments, including Hillsborough County. He is known to all clients to be responsive, knowledgeable of the multiple issues that could arise on any given transportation project, and capable of serving clients' needs through meeting their goals, budgets, and schedules.

Total Experience

28 Years

Registrations

Registered Professional Engineer, FL, AL, GA, LA, MI, MS, WI

Certifications

Bridge Inspection Refresher Course, FHWA, NHI, 2018

Safety Inspection of In-Service Bridges Certificate FHWA, NHI, 2015

Florida DOT Advanced Maintenance of Traffic Certification, 2016

Education

PhD, Structural Engineering, University of Alabama

MS, Structural Engineering, Yarmouk University, Jordan

BS, Civil Engineering, University of Jordan-Amman

Memberships

American Institute of Steel Construction

American Council of Engineering Companies of Florida, Multiple Committees

American Society of Civil Engineers, Fellow

American Society of Civil Engineers – Structural Engineering Institute, Fellow

Transportation Research Board Standing Committee AFS30, Member

Select Experience

CR 207A over Dog Branch Bridge Feasibility Study and Design, Putnam County:

Project manager. Project began with feasibility study and alternatives to clean Dog Branch Creek between SR 207 and CR 207A. Improvements would help restore the creek and improve hydraulic conveyance that would help reduce the potential for flooding impacts to agricultural and residential land interests. Services included preliminary engineering to perform the analysis, design plans, bid document assistance, and agency permitting. The three-span cast-in-place concrete flat slab is located on a super-elevated, horizontal curve. The flat slab is supported on concrete bent caps with 18-inch square prestressed precast concrete piles. Scour countermeasures in the form of riprap were installed across the channel.

Pasco County Suncoast Trail Bicycle/Pedestrian Overpass at SR 54 Planning Study:

Project manager. Ayres was retained to complete a planning study to investigate pedestrian bridge overpass alternatives and alignments at Suncoast Trailhead and SR 54. The study also investigated two potential alternatives for a pedestrian connection on the north side of SR 54 from the Suncoast trailhead to the existing sidewalk on the east side of the Suncoast Parkway. At the existing trailhead, options were examined for expanded parking, a new restroom and other value-added amenities. The goal of the study is to provide the County with sufficient information to prepare an RFP for the design and permitting of the improvements identified in this report. The draft report was submitted and approved by FDOT. The final report was completed in June 2021.

Pasco County Development Plans Review for Traffic Operations Support Services:

Project manager. Project involved providing countywide traffic analyses, safety analyses, and development plans review. Ayres completed reviews of almost 600 plans for proposed developments and right-of-way permits to assess compliance with county standards and practices for traffic controls for signs, signals, markings, and access controls. Work involved coordinating project reviews and follow-up submittals with County Planning and Traffic Operations staff as well as with applicant's engineer or representative.



Jeffrey Siewert, PE

Senior Transportation Engineer

Jeff is a senior project manager in Ayres' Southeast transportation group. He offers more than 32 years of experience on Florida transportation and civil engineering projects. Jeff's project management and design experience includes extensive Florida Department of Transportation (FDOT) interchange, interstate/expressway, and multimodal/complete streets projects. His municipal project experience includes roadway, sidewalk, trail, stormwater, and streetscape design. He has managed master planning initiatives promoting pedestrian-focused transportation and community regrowth. His expertise includes wetland issues and environmental permitting.

Total Experience

32 Years

Registrations

Registered Professional Engineer, FL

Education

MS, Civil Engineering, Tulane University

MS, Petroleum Engineering, Tulane University

BS, Civil Engineering, University of Miami

Memberships

American Society of Highway Engineers

Florida Engineering Society

American Council of Engineering Companies

Select Experience

Pasco County Suncoast Trail Bicycle/Pedestrian Overpass at SR 54

Planning Study: Senior transportation engineer. Ayres was retained to complete a planning study to investigate pedestrian bridge overpass alternatives and alignments at Suncoast Trailhead and SR 54. The study also investigated two potential alternatives for a pedestrian connection on the north side of SR 54 from the Suncoast trailhead to the existing sidewalk on the east side of the Suncoast Parkway. At the existing trailhead, options were examined for expanded parking, a new restroom and other value-added amenities. The goal of the study is to provide the County with sufficient information to prepare an RFP for the design and permitting of the improvements identified in this report. The draft report was submitted and approved by FDOT. The final report was completed in June 2021.

City of Tampa East Columbus Drive from North Nebraska Avenue (SR 45) to 14th Street (Tampa Walk-Bike LAP Project)

Responsible for project management and oversight of design. Project involves developing conceptual plans and final design to alleviate unsafe and undesirable conditions while enhancing aesthetics and improving safety for bicyclists and pedestrians. Work is part of City of Tampa's Center City Plan that proposes roadway "right sizing" and traffic rebalancing. Services include analyzing roadway geometry and intersections to determine potential improvements to improve traffic, pedestrian, and bicyclist operations and safety; public involvement; permitting; and agency and utility coordination.

City of Tampa 46th Street from SR 580 (Busch Boulevard) to SR 582 (Fowler Avenue) (Tampa Walk-Bike LAP Project)

Responsible for project management, including oversight for overall design of improvements, which include pavement design, alignment design for resurfacing and a roundabout, drainage improvements consisting of adding new inlets, gutter profiling, sidewalk widening from 5 feet to 10 feet, signing and marking, and maintenance of traffic (MOT). Project provides sidewalk connectivity, sidewalk widening including multiple mid-block crossings and share-the-road pavement markings, and intersection and travel lane improvements along 46th Street from Busch Boulevard to Fowler Avenue. Key project feature is mini-roundabout proposed for intersection of 46th Street and Linebaugh Avenue, designed to fit into existing right-of-way and significantly improve safety.



David Johnson, PE

Senior Structural Engineer

David brings efficient and detail-oriented attributes to his work and excels in communicating and presenting project information to clients. His experience includes the design of bridges, retaining walls, and culverts on small to mega projects. His bridge design work includes working with prestressed concrete, steel, and reinforced concrete in new and rehabilitation work. He provides calculations, detailing, cost estimates, specifications, concept reports, client coordination, and quality assurance/quality control. David has performed local and state bridge load ratings for slab, prestressed girder, and steel girder bridges. He also has inspected pile driving and abutment construction, bridges, parking structures, and municipal and industrial buildings.

Total Experience

11 Years

Registrations

Registered Professional Engineer, FL, WI, OR

Certifications

Safety Inspection of In-Service Bridges Certificate FHWA, NHI, 2015

Bridge Inspection Refresher Course, FHWA, NHI, 2018

Inspection of Fracture Critical Bridge Members, FHWA, NHI, 2017

Certified Bridge Inspector, OR, 2017

Education

MS, Structural Engineering, University of Wisconsin-Madison

BS, Civil and Environmental Engineering, University of Wisconsin-Madison

Select Experience

Pasco County Suncoast Trail Bicycle/Pedestrian Overpass at SR 54

Planning Study: Senior structural engineer. Ayres was retained to complete a planning study to investigate pedestrian bridge overpass alternatives and alignments at Suncoast Trailhead and SR 54. The study also investigated two potential alternatives for a pedestrian connection on the north side of SR 54 from the Suncoast trailhead to the existing sidewalk on the east side of the Suncoast Parkway. At the existing trailhead, options were examined for expanded parking, a new restroom and other value-added amenities. The goal of the study is to provide the County with sufficient information to prepare an RFP for the design and permitting of the improvements identified in this report. The draft report was submitted and approved by FDOT. The final report was completed in June 2021.

County Line Road Sidewalk Improvements Design and Permitting, Pasco County

County: Structural engineer. Project involves design and permitting services for sidewalk/multi-use path improvements on north side of County Line Road (Northwood Palms Road to Big Creek Drive) in Wesley Chapel area of Pasco County. Local Agency Program project includes designing 1,600 linear feet of 8-foot multi-use path through proposed project area, including curb cuts to provide for ADA access at corners and street intersections; designing widening of County Line Road over Trout Creek Bridge to provide 8-foot path; minor roadway design to accommodate construction of path on bridge; drainage; signing and pavement marking; utility coordination; permitting; and engineer's estimate of probable construction costs.

King's Bay River Walk, Crystal River: Structural engineer of record. Project involves design, layout, and cost estimating services for 10-foot-wide elevated offshore and on-grade landward walkway along commercial waterfront and for 1.5 miles of multi-use trail throughout City. Team providing permissibility analysis and coordination with 11 agencies for waterward structures, restoration/mitigation design with living shorelines, and submerged aquatic vegetation restoration.



Frank Haunstetter, PE

Senior Structural Engineer

Frank is a senior structural engineer who has been providing structural engineering and bridge inspection, rehabilitation, and repair services in Florida since 1996. His vast experience benefits clients including the Florida Department of Transportation (FDOT) and municipalities around the state. Frank has provided structural design for flyover bridges, new multi-span pre-stressed girder bridges, interstate bridge widenings, and bridge repairs. He has also completed bridge and sign structure inspections, post-hurricane inspections, load ratings, bridge repair prioritization, and repairs on bridges and retaining walls. Frank is skilled in the use of MicroStation, STAAD, AutoCAD, LEAP Bridge Concrete, Open Bridge Modeler, Open Bridge Designer, SmartBridge, and FDOT Structures Design Programs.

Total Experience

24 Years

Registrations

Registered Professional Engineer, FL

Education

MS, Civil Engineering, University of South Florida

BS, Civil Engineering, University of South Florida

FHWA NHI Training

130055 Safety Inspection of In-Service Bridges, 2015

130053 Bridge Inspection Refresher, 2018

Memberships

American Society of Civil Engineers

Select Experience

Hillsborough County East Terrace Drive over East Canal Bridge Rehabilitation

Design Services: Structural engineer. This project involves repairs to the East Terrace Drive bridge over East Canal. Anticipated work includes recoating existing sheetpiles; installing approach slabs; installing/extending guardrail and end terminal; and addressing erosion at west abutment and cracks in beams. Ayres will provide design of bridge repairs, plans preparation, bidding assistance, permitting assistance, shop drawing reviews and construction phase assistance, utility coordination, and attendance at meetings. Services also include providing construction plans, quantities, and estimates of probable costs, which may include field reviews as needed. This project was assigned under a task work order-based contract.

Hillsborough County CR 579 over Little Manatee River Bridge Rehabilitation

Design Services: Structural engineer. This project involves repairs to CR 579 bridge over the Little Manatee River. Anticipated works includes repair/replacement of fractured east approach slab; replacement of broken guardrail posts; repair of jacket piles; and any other repairs deemed necessary during site visit. Ayres will provide design of bridge repairs, plans preparation, bidding assistance, permitting assistance, shop drawing reviews and construction phase assistance, utility coordination, and attendance at meetings. Services also include providing construction plans, quantities, and estimates of probable costs, which may include field reviews as needed. This project was assigned under a task work order-based contract.

City of Tampa East Columbus Drive from North Nebraska Avenue (SR 45) to 14th Street (Tampa Walk-Bike LAP Project):

Project engineer. Project involves developing conceptual plans and final design to alleviate unsafe and undesirable conditions while enhancing aesthetics and improving safety for bicyclists and pedestrians. Work is part of City of Tampa's Center City Plan that proposes roadway "right sizing" and traffic rebalancing. Services include analyzing roadway geometry and intersections to determine potential improvements to improve traffic, pedestrian, and bicyclist operations and safety; public involvement; permitting; and agency and utility coordination.



Michael Noesen, PE

Senior Traffic Engineer

Mike offers clients well over three decades of experience in the management and design of urban and rural roadway projects as well as lighting and signalization. He's been in Tampa for the past 31 years working on projects for the Florida Department of Transportation and county, city, and private clients. He also has experience in PD&E studies, ITS, transit design, and value engineering. Mike manages design and construction projects and provides transportation engineering support. His responsibilities include project management; quality control; roadway, signal, lighting, and ITS design; reports; quantities; construction cost estimates; utility coordination; and assembling plans, specifications, and estimates packages..

Total Experience

37 Years

Registrations

Registered Professional Engineer, FL, IL

Education

BS, Civil Engineering, University of Notre Dame

Computer Career Program Certificate, DePaul University

Credentials / Training

FDOT training/certificates:

- Long Range Estimates
- Specifications
- Advanced Work Zone Traffic Control
- GE Lighting School
- Holophane Lighting School
- ITS Lightning Protection
- IMSA Fiber Optics for ITS Level 1

Memberships

Institute of Traffic Engineers

American Society of Highway Engineers

International Municipal Signal Association

Select Experience

City of Tampa East Columbus Drive from North Nebraska Avenue (SR 45) to 14th Street (Tampa Walk-Bike LAP Project): Project engineer.

Project involves developing conceptual plans and final design to alleviate unsafe and undesirable conditions while enhancing aesthetics and improving safety for bicyclists and pedestrians. Work is part of City of Tampa's Center City Plan that proposes roadway "right sizing" and traffic rebalancing. Services include analyzing roadway geometry and intersections to determine potential improvements to improve traffic, pedestrian, and bicyclist operations and safety; public involvement; permitting; and agency and utility coordination.

Buckingham Road and Gunnery Road Roundabout, Lee County: Project engineer. Project includes improvement of the Gunnery Road at Buckingham Road intersection in Lee County. Both Gunnery Road and Buckingham Road are two-lane undivided arterial roadways. Improvements include reconstruction of the intersection to a two-lane roundabout with pedestrian facilities, lighting, landscaping, and drainage/stormwater treatment facilities for permitting. Right-of-way will be required as necessary for improvements due to the extreme skew angle of the existing geometry. Mike developed the projected future traffic data to 2045 to establish the design year level of service.

Mansfield Boulevard and Oakwood Preserve Drive Signalized Intersection Improvements, Pasco County: Project engineer.

Pasco County retained Ayres to design and prepare traffic signalization plans for the Mansfield Boulevard and Oakwood Preserve Drive intersection in Wesley Chapel, Florida. Improvements to the existing intersection will include pedestrian signal poles, Americans with Disabilities Act (ADA) curb cuts, high emphasis crosswalks, concrete strain poles, traffic controller, and traffic signal heads. Work includes geotechnical investigation, subsurface utility engineering (SUE) work at strain pole foundation locations, structural design, traffic signal design, pavement design for milling and resurfacing, signing and pavement marking design, and lighting analysis and design. Ayres is also performing utility coordination and providing permitting assistance.



Mohamad-Waleed Gebarin, PE

Transportation Engineer

Mohamad brings experience in design and development of roadway construction plan sets in conformance with the design standards of the Florida Department of Transportation, the American Association of State Highway and Transportation Officials, and the Manual on Uniform Traffic Control Devices. Mohamad has worked on large and small teams completing resurfacing, restoration, and rehabilitation projects and major design-build projects. He is highly skilled in plans production and in 3D Open Roads corridor modeling. His responsibilities at Ayres include leading minor design efforts for roadway and multimodal projects, assisting in project management, and providing training on 3D Open Roads corridor modeling.

Select Experience

Pasco County Suncoast Trail Bicycle/Pedestrian Overpass at SR 54 Planning Study:

Transportation engineer. Ayres was retained to complete a planning study to investigate pedestrian bridge overpass alternatives and alignments at Suncoast Trailhead and SR 54. The study also investigated two potential alternatives for a pedestrian connection on the north side of SR 54 from the Suncoast trailhead to the existing sidewalk on the east side of the Suncoast Parkway. At the existing trailhead, options were examined for expanded parking, a new restroom and other value-added amenities. The goal of the study is to provide the County with sufficient information to prepare an RFP for the design and permitting of the improvements identified in this report. The draft report was submitted and approved by FDOT. The final report was completed in June 2021.

City of Port Richey Waterfront Overlay District Feasibility Study (Cotee River Landing):

Transportation engineer. Project began with Cotee River Landing Feasibility Study based on objectives outlined in City's 2020 Comprehensive Plan. Among the goals are to provide safe, efficient multi-modal transportation; enhance retail/recreational components; preserve/emphasize historical character as Fisherman's Village; identify potential land development regulations and land uses; establish plan to procure funding. Improvements will enhance ease of mobility to the surrounding communities and public access within the area. Design and construction of the proposed infrastructure improvements are aimed to amplify and promote urbanization of the waterfront to create a vibrant destination for residents and visitors alike.

CR 207A over Dog Branch Bridge Feasibility Study and Design, Putnam County:

Transportation engineer. Project began with feasibility study and alternatives to clean Dog Branch Creek between SR 207 and CR 207A. Improvements would help restore the creek and improve hydraulic conveyance that would help reduce the potential for flooding impacts to agricultural and residential land interests. Services included preliminary engineering to perform the analysis, design plans, bid document assistance, and agency permitting. The three-span cast-in-place concrete flat slab is located on a super-elevated, horizontal curve. The flat slab is supported on concrete bent caps with 18-inch square prestressed precast concrete piles. Scour countermeasures in the form of riprap were installed across the channel.

Total Experience

6 Years

Registrations

Registered Professional Engineer, FL

Education

BS, Civil Engineering, University of South Florida

Memberships

American Society of Highway Engineers



Kevin Kuhlow, PE

Traffic Engineering and Analysis

Kevin is a senior project manager and transportation group leader with over 24 years of experience. He is a leading U.S. roundabout expert who has focused on roundabouts for the past 20 years, including feasibility studies, operational analysis, design, review, construction observation assistance, and training. He has been involved with developing hundreds of roundabouts throughout North America since 2000, ranging from single-lane roundabouts to complex three-lane roundabouts. Kevin's skills include analysis and planning; direct roundabout design; design review and mentoring; public involvement; and roundabout design training.

Total Experience

25 Years

Registrations

Registered Professional Engineer, FL, AR, IL, IN, WI

Education

BS, Civil Engineering, University of Wisconsin-Madison

Memberships

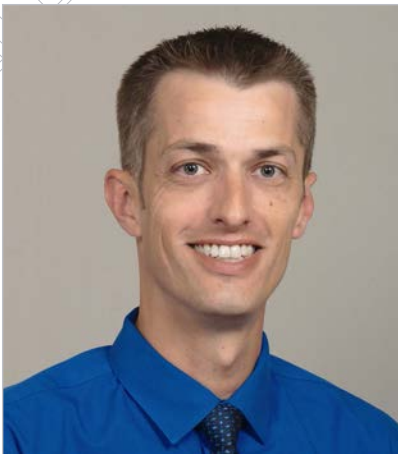
Institute of Transportation Engineers

Select Experience

FDOT Central Office Roadway Design Support Services: Project manager and lead engineer. Continuing services contract involves providing design reviews of roundabouts being constructed on state highway system. Reviews evaluate whether proposed roundabout designs meet safety and performance objectives. Areas for further design refinement are identified to maximize potential operational and safety performance while considering project specific constraints. Projects have included operational analysis and geometric design review for proposed complex multilane roundabouts, such as the US 41/Gulf Stream and US 41/Fruitville Road roundabouts in Sarasota. Significant geometric modifications were recommended, which will improve operations and vehicular and pedestrian safety at both intersections. Kuhlow also worked with FDOT Central Office staff to develop and present roundabout design training workshops throughout Florida to over 400 FDOT and consultant staff and assisted with developing roundabout chapter of Florida Design Manual.

City of Tampa Roundabout Design Reviews: Responsible for project management and design review. City has authorized multiple work tasks under continuing services contract to provide design reviews of proposed roundabouts. Each roundabout reviewed has included unique design challenges due to its proposed location in tight urban areas. Reviews included operational analysis, horizontal geometrics, and design plans. Specific suggestions were provided to improve operational efficiency and safety at each roundabout. Reviews to date include The Heights Development, Westshore Marina District Bridge Street, and 34th Street Improvement Project.

Pinellas County Belcher Road (CR 501) at Gulf to Bay (SR 60) PD&E Re-evaluation: Traffic engineer. Project involved re-evaluating PD&E study for Belcher Road (CR 501) from Druid Road to Sunset Point Road completed in 2008. New study focused on intersection of Belcher Road and Gulf to Bay Boulevard (SR 60). Study investigated operational and safety improvement alternatives for intersection. Four feasible alternatives were identified for further investigation: traditional traffic signal, single-point interchange, median U-turn, and partial median U-turn. Ayres and County staff brought study results to numerous meetings to gather input from stakeholders.



Matthew Ivie, PE

Civil Engineer

Matthew is experienced in civil site design, drainage and stormwater design; water, wastewater, and pumping station facilities design; regulatory permitting; plan preparation; and utility relocations. He has served as both a project manager and a designer. As a member of Ayres' municipal engineering group, his civil design work includes pavement, site, sewer and water mains, roadways, utilities, and parks. Matthew also provides field inspection and construction observation services. He is chairman of the Pinellas County Utility Group for 2019-2020. He is proficient in many modeling programs including AdICPR, WaterCAD, AutoCAD, and ArcGIS.

Total Experience

14 Years

Registrations

Registered Professional Engineer, FL

Certifications

Florida DOT Temporary Traffic Control – Advanced, 2019

Education

BS, Mechanical Engineering, Georgia Institute of Technology

Memberships

Pinellas County Utility Group, Chairman

Select Experience

City of New Port Richey Permit Review: Project engineer. Project involves serving as city engineer for City of New Port Richey, providing development reviews, on-call services, and other engineering expertise as needed. Services include reviewing projects that pass through development review process for code compliance. Reviews include stormwater, utility, traffic, and development regulation. Ayres issues letters of noncompliance for applicants to correct before permit issuance. Duties include attending regular Development Review Board meetings and other city meetings when needed.

City of Port Richey Waterfront Overlay District Feasibility Study (Cotee River Landing): Project manager. Project began with Cotee River Landing Feasibility Study based on objectives outlined in City's 2020 Comprehensive Plan. Among the goals are to provide safe, efficient multi-modal transportation; enhance retail/recreational components; preserve/emphasize historical character as Fisherman's Village; identify potential land development regulations and land uses; establish plan to procure funding. Improvements will enhance ease of mobility to the surrounding communities and public access within the area. Design and construction of the proposed infrastructure improvements are aimed to amplify and promote urbanization of the waterfront to create a vibrant destination for residents and visitors alike.

Pasco County Asbel Road Extension from US 41 to Pasco County Utilities Driveway: Stormwater engineer. Project involves providing roadway design, drainage design, and permitting services for extension of Asbel Road from US 41 to Central Boulevard in Land O' Lakes. Services include stormwater modeling and analysis for a wet pond and dry pond systems, SWFWMD permitting, and floodplain mitigation. Project was assigned under a continuing services contract with Pasco County.

City of Pinellas Park Engineering and Architectural Consultant Services Continuing Contract: Project engineer. Project involves providing on-call professional engineering services for civil, transportation, stormwater, and utility projects. Work orders assigned to date have involved obtaining SWFWMD permit exemptions for two sidewalk projects.



Zachery Teter, PE* (pending application approval)

Civil Engineer

Zachery joined Ayres' municipal engineering and construction engineering inspection staff in January 2019. Zachery provides design on projects involving pavement, sewer, water mains, roadway, utilities, urban community facilities, and passive nature parks. He performs hydrologic and hydraulic calculations and stormwater management plans and works on site civil projects for private and public sector clients. He assists with permitting and performs field inspections and construction observation.

Total Experience

2 Years

Registrations

Engineer Intern, FL

Education

MS, Civil Engineering,
University of Akron

BS, Civil Engineering, University
of Akron

Select Experience

City of New Port Richey Permit Review: Civil engineer. Project involves serving as city engineer for City of New Port Richey, providing development reviews, on-call services, and other engineering expertise as needed. Services include reviewing projects that pass through development review process for code compliance. Reviews include stormwater, utility, traffic, and development regulation. Ayres issues letters of noncompliance for applicants to correct before permit issuance. Duties include attending regular Development Review Board meetings and other city meetings when needed.

City of New Port Richey Frances Avenue Park: Civil engineer. Park features wide open grassy areas, an ADA-accessible playground, covered picnic areas, and river access. It is the beginning of the Florida Canoe Trail and has a kayak/canoe launch. The City of New Port Richey retained Ayres to provide engineering services for improvements to the picnic shelters at Frances Avenue Park. The project involves replacing three picnic shelters proposed in the same footprint as the existing shelters and designing a new sidewalk connection. Services include structural condition survey, topographic survey, geotechnical investigation, shelter design, aesthetic enhancement (split-face stone façade), ADA connectivity, and grant support.

City of Port Richey Waterfront Overlay District Feasibility Study (Cotee River Landing): Civil engineer. Project began with Cotee River Landing Feasibility Study based on objectives outlined in City's 2020 Comprehensive Plan. Among the goals are to provide safe, efficient multi-modal transportation; enhance retail/recreational components; preserve/emphasize historical character as Fisherman's Village; identify potential land development regulations and land uses; establish plan to procure funding. Improvements will enhance ease of mobility to the surrounding communities and public access within the area. Design and construction of the proposed infrastructure improvements are aimed to amplify and promote urbanization of the waterfront to create a vibrant destination for residents and visitors alike.



Maria Baucom

Utility Coordination / Design

Maria has more than 26 years of experience and utility coordination expertise with county and Florida Department of Transportation projects. Her duties include scheduling utility meetings at all phases of design; identifying and resolving conflicts; maintaining communication and establishing working relationships with the Department/county/utility agency owners; preparing utility plans for construction; and completing utility work schedules. Maria attends the monthly Utility User Groups locally and is the Ayres liaison to Greater Tampa User Group, Pasco Hernando Utility User Group, and Pinellas County Utility User Group; she is also the District 7 Utility Liaison Committee Treasurer. She maintains an associate membership of the Sunshine State One Call of Florida.

Total Experience

26 Years

Certifications

Florida Utilities Coordinating Committee Certifications – Utility Coordination, Design, Regulations and Agreements, and Construction Management

Select Experience

CR 207A over Dog Branch Bridge Feasibility Study and Design, Putnam

County: Responsible for CADD. Project began with feasibility study and alternatives to clean Dog Branch Creek between SR 207 and CR 207A. Improvements would help restore the creek and improve hydraulic conveyance that would help reduce the potential for flooding impacts to agricultural and residential land interests. Services included preliminary engineering to perform the analysis, design plans, bid document assistance, and agency permitting. The three-span cast-in-place concrete flat slab is located on a super-elevated, horizontal curve. The flat slab is supported on concrete bent caps with 18-inch square prestressed precast concrete piles. Scour countermeasures in the form of riprap were installed across the channel.

City of Tampa East Columbus Drive from North Nebraska Avenue (SR 45) to 14th Street (Tampa Walk-Bike LAP Project):

Responsible for CADD. Project involves developing conceptual plans and final design to alleviate unsafe and undesirable conditions while enhancing aesthetics and improving safety for bicyclists and pedestrians. Work is part of City of Tampa's Center City Plan that proposes roadway "right sizing" and traffic rebalancing. Services include analyzing roadway geometry and intersections to determine potential improvements to improve traffic, pedestrian, and bicyclist operations and safety; public involvement; permitting; and agency and utility coordination.

City of Tampa 46th Street from SR 580 (Busch Boulevard) to SR 582 (Fowler Avenue) (Tampa Walk-Bike LAP Project):

Responsible for CADD. Project includes pavement design, alignment design for resurfacing and a roundabout, drainage improvements consisting of adding new inlets, gutter profiling, sidewalk widening from 5 feet to 10 feet, signing and marking, and maintenance of traffic (MOT). Project provides sidewalk connectivity, sidewalk widening including multiple mid-block crossings and share-the-road pavement markings, and intersection and travel lane improvements along 46th Street from Busch Boulevard to Fowler Avenue. Key project feature is mini-roundabout proposed for intersection of 46th Street and Linebaugh Avenue, designed to fit within existing right-of-way.



Chris Silewski, PLA

Landscape Architect

As a project manager in Ayres' landscape architecture group, Chris brings creative and thoughtful input into the design process from conception to construction. Over the past 10 years, he has focused on creating dynamic, place-specific designs that incorporate a sense of wonder. His innate interests in community outreach, local typology, art, ecology, and regional design make him a valuable resource to any project aimed at engaging the public in creating a place-specific destination. This creative approach is balanced by his priority of analyzing existing conditions and discovering how a site's assets can accentuate and dovetail with the project goals and objectives. You can rest assured no opportunities are overlooked in Chris' engaging design process.

Select Experience

City of Palatka St. Johns Avenue Reimagining: Landscape architect. St. Johns Avenue (formally known as Lemon St.) has been a point of pride and an anchor of remembrance for the Palatka community. Ayres' proposed design draws inspiration from the rich history of Palatka, the unique ecology of the local St. Johns River, and the important community social structures many residents identify with. The streetscape will encourage pedestrians to travel east and west through a variety of changing experiences anchored in the design identity of each individual district. By working with local business owners and developing creative yet consistent design inspiration, we are able to give consistent streetscape language that is also identifiable to each district. Ayres' services include streetscape design, utility coordination, public engagement, community outreach, and visualization.

City of Port Richey Waterfront Overlay District Feasibility Study (Cotee River Landing): Landscape architect. Project began with Cotee River Landing Feasibility Study based on objectives outlined in City's 2020 Comprehensive Plan. Among the goals are to provide safe, efficient multi-modal transportation; enhance retail/recreational components; preserve/emphasize historical character as Fisherman's Village; identify potential land development regulations and land uses; establish plan to procure funding. Improvements will enhance ease of mobility to the surrounding communities and public access within the area. Design and construction of the proposed infrastructure improvements are aimed to amplify and promote urbanization of the waterfront to create a vibrant destination for residents and visitors alike.

City of Tampa Spruce Street Linear Park Ditch Enclosure: Landscape architect. Project involved comprehensive study and evaluation services for Spruce Street and adjacent drainage facility consisting of large open ditch and multiple side drain structures. Area surrounding Spruce Street had experienced – and is still experiencing – extensive redevelopment of commercial, restaurant, and residential facilities and drastic change in land use and surrounding cultural activity. Concept developed by Ayres was to use low-impact design elements for enclosing the ditch while maintaining flow and treatment requirements. The newly available area would then support a linear park and trail that would accommodate high demand for new residents to walk and recreate in their neighborhood.

Total Experience

14 Years

Registrations

Professional Landscape Architect, FL, WI, MN

Education

BLA, Landscape Architecture, North Dakota State University

BS, Environmental Design, North Dakota State University

Expertise

Project Management

Community Placemaking

Consensus Building

Graphic Communication

Community Engagement

Urban Design

Park Planning and Design

User Experience Design

Complete Streets

License Number

LA6667396