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www.trcww.com
Section One

About the Firm
TRC Worldwide Engineering, Inc. (TRC) combines the talents and resources of several preeminent organizations that have been at the developmental forefront for some of the nation’s most unique structures. TRC is headquartered in Brentwood, Tennessee and has grown to seventeen offices with over 300 employees worldwide.

Founded in 1989 as a Structural Engineering Company, TRC initially provided support services to the Architectural community. Initiating its acquisition strategy, TRC strengthened the firm’s capabilities through the presence of Jenkins & Charland, Inc., a Florida-based structural engineering firm, and the purchase of H.Wilden & Associates, a Pennsylvania-based firm providing consulting in the Precast Concrete Industry. Additionally, the firm has committed to geographic expansion with new offices in Alabama, Arizona, Georgia, Indiana and Texas.

TRC has continued to reinforce its core structural engineering services while diversifying and expanding services into site civil, transportation, and MEP engineering. In 2007, TRC acquired Kracor based out of Phoenix, Arizona. Most recently, TRC has broadened its services through the acquisition of Km2 Design Group, P.C., a full service MEP consultant firm. The firm has been providing professional engineering services in the fields of HVAC, plumbing, fire protection, fire alarm, data, voice and video communications since 1985.

TRC uses a Global Delivery Model to effectively deliver projects on time and within budget. The support service groups in Bangalore and Chennai, India now consists of 165 employees providing a wide array of services to our structural engineers, steel detailers, and precast concrete engineering group. By maximizing resources, expanding technical depth and broadening geographic presence, TRC is capable of providing complete design services for structures, regardless of size or location.

The resources TRC has assembled feature unparalleled, hands-on experience working on numerous structures nationwide. TRC takes pride in delivering projects on time and within budget. This is the foundation on which TRC has been built.

We are set up to be a hands-on resource to owners, developers, architects, contractors and fabricators. We provide design services at a level unequaled by typical consultants working in the construction industry today. Our track record for developing outstanding structures is second-to-none. With a management philosophy centered on “Service, Innovation and Quality,” as well as the combined experience of the various offices, TRC is a truly unique partner in those looking to develop the very best in new structures.
TRC Worldwide Engineering, Inc. is a full service Engineering company headquartered in Brentwood, Tennessee with 17 locations across the United States. We have an excellent track record in all of our engineering disciplines, including Civil, Land/Site Engineering, Transportation Engineering, Structural, Mechanical, and Electrical engineering as well as Structural Steel Detailing, Precast Engineering, Parking Structures and Architectural support. TRC offers services through our specialty divisions with highly qualified engineers and other technical professionals. TRC provides engineering solutions based on thorough investigation and analysis of design, functional and economic requirements. Beginning with the first concepts on paper, through final phase of construction, TRC is committed to a project's success.

Thanks to our expertise and innovative project approach, TRC has emerged as a market leader in civil engineering. Our highly skilled and experienced Transportation Division provides plans and documents necessary for roadway, drainage and bridge construction for both government agencies and private developers.

ROADWAYS:
TRC has the capability and the experience to perform the work necessary for Planning and Design of rural highways, city streets and urban expressways.

TRAFFIC ENGINEERING:
TRC provides several traffic engineering services such as turning movement counts, analysis of accident data, determination of signal warranting and, in the field, intersection and signal layout and design. TRC also identifies and analyzes traffic operational challenges such as high accident rates and congested intersections.

BRIDGE DESIGN AND OTHER TRANSPORTATION STRUCTURES:
TRC provides specialized Bridge Design Services to various public and private customers including the Tennessee Department of Transportation. TRC designs and analyzes both existing and new bridge structures made of diverse material, steel, concrete and timber. It is well versed with the federal, state and local requirements for bridge design and rehabilitation. TRC provides structural design services for traffic signal, street lighting, and overhead signs as well as special water control drainage structures.

NON-TRADITIONAL ENGINEERING SERVICES:
TRC also provides a wide variety of non-traditional engineering services to federal, state, municipal, and county agencies. These include roadway inventory data collection, overhead sign structure inspections, and bridge inspections consistent with governmental requirements.
TRC Worldwide Engineering, Inc. is able to provide civil engineering and site development consulting services to developers, architects, regulatory agencies, and contractors. Whether the project is a half-acre convenience mart, a new school site, a multi-mile roadway design project, an 800-acre subdivision or a professional office building, TRC has service minded professionals ready to engineer the solution. TRC has applied its experience to single-family and multifamily residential developments, all types of retail, light commercial, office and medical facilities, as well as educational, religious and municipal projects.

Civil / Site Design Services:
- Site Evaluation & Planning
- Grading & Drainage
- Storm Water Management
- Certified Erosion & Sediment Control Professionals
- Underground Utilities
- Parking Layouts Traffic Circulation
- Trip Generation
- Impact Analysis
- Regulatory Approved Management

Contact Information:
Mr. Brady Griggs, P.E.
217 Ward Circle
Brentwood, TN 37027
(615) 661-7979
bgriggs@trcww.com
About the Firm

States of Licensure & Services

Licensed In 47 States

Services

- Structural Engineering
- Structural Steel Detailing & Connection Design
- Precast Concrete Engineering
- Parking Structures
- Civil/Transportation Engineering
- MEP Engineering
- Building Commissioning
Section Two

Project Team
PROFESSIONAL EXPERIENCE

Mr. Petrone has over 28 years of experience in structural and bridge engineering ranging from graduate engineer / designer to project manager / department manager of a structural department for a large sized southeast U.S. consulting firm. Responsibilities included design, project management, financial tracking and responsibility to corporate management, structural personnel recruitment and management, and assistance with business development. Mr. Petrone also served for 5 years as Bridge Department Manager followed by 8 additional years as the Bridge/Building Structures Department Manager.

Mr. Petrone now serves as the Director of Bridge Engineering; in which his responsibilities include engineer of record on bridge design projects and the expansion of the firm’s services and geographic markets while overseeing the TRC bridge engineering department.

YEARS EXPERIENCE
Total Years Experience: 29

PROFESSIONAL REGISTRATION
Registered Professional Engineer:
TN, AL

EDUCATION
Bachelor of Science Degree in Civil Engineering -
Tennessee Technological University, 1975
Master of Science Degree in Civil Engineering -
University of Tennessee, 1979
Vanderbilt University, post graduate studies,
“Structural Dynamics”, 1982

PROFESSIONAL AFFILIATIONS:
National Bridge Inspection Standard (NBIS) – FHWA
two week bridge inspection course
American Society of Civil Engineers (ASCE)
American Concrete Institute (ACI)

Parking Structure Projects:
• Metropolitan Nashville Airport Parking Structure - Nashville, TN
• WK Pierremont Health Center Parking Deck - Shreveport, LA
• Clark Memorial Hospital Parking Deck - Jeffersonville, IN
• Opelousas General Hospital and Parking Deck - Opelousas, LA
• Methodist Medical Center of Oak Ridge Parking Garage - Oak Ridge, TN
• Hamilton Medical Center Parking Deck - Dalton, GA
• Willis Knighton Institute Parking Deck - Shreveport, LA
Mr. Griggs has over eleven years of experience in Civil Transportation and Environmental Engineering and has worked on projects in several states, including Tennessee, Alabama, and Indiana. He has extensive knowledge of Traffic engineering and is familiar with all stages of roadway improvement projects, from planning through construction. Mr. Griggs has completed coursework in context sensitive design and is a Certified Professional in Erosion and Sediment Control. He has managed a variety of non-traditional engineering services for the Tennessee Department of Transportation, including roadway inventory and infrastructure inspection projects. As Civil Engineering Manager, Mr. Griggs is responsible for all aspects of land development, roadway design, and civil technical reports and presentations at TRC Worldwide Engineering.

YEARS EXPERIENCE
Total Years Experience: 11

PROFESSIONAL REGISTRATION
Registered Professional Engineer:
TN, AL, GA

EDUCATION
Master of Science Degree in Civil Engineering
Tennessee Technical University, 1998

PROFESSIONAL AFFILIATIONS:
American Society of Highway Engineers
Tau Beta Pi
Chi Epsilon
PROFESSIONAL EXPERIENCE

Mr. Toles brings ten years of experience in the civil engineering field and has been responsible for planning and design of municipal projects including: state highways, local roadways, airports, site civil, and drainage projects. Mr. Toles began his career working for the Mississippi Department of Transportation, and since that time has developed a wealth of experience in Roadway Planning and Design. As a Design Manager for TRC Worldwide Engineering, Inc. Mr. Toles has taken a lead role in the project development for a rural interchange near Sparta, Tennessee as well as a 5.4 mile four lane divided highway design in Overton County.

YEARS EXPERIENCE
Total Years Experience: 10

PROFESSIONAL REGISTRATION
Registered Professional Engineer:
IN MS TN IN

EDUCATION
Bachelor of Science in Civil Engineering
- Mississippi State University / 1999

PROFESSIONAL AFFILIATIONS:
American Society of Civil Engineers
American Society of Highway Engineers

Parking Structure Experience on over 75 structures including:
- Transportation Planning Report Old Brownsville Road in Bartlett - Shelby County, Tennessee
- TDOT White County State Route 111 Interchange Design
- TDOT Overton County Design SR 52
- TDOT Wilson County State Route 141 Design
- TDOT Obion County State Route 5 Design
PROFESSIONAL EXPERIENCE

Paul E. Carroll has been involved in engineering design, project management and construction administration for a wide range of projects that include bridges, parks and marina facilities, water/wastewater plant structures, high-rise, large scale commercial buildings and industrial plants, commercial and residential subdivisions and water management systems.

He has an in-depth knowledge of the complex environmental regulatory process and has provided our clients with management support in the preparation of bids and new project development.

YEARS EXPERIENCE

Total Years Experience: 37

PROFESSIONAL REGISTRATION

Registered Professional Engineer: Florida: #21398
Special Inspector/Threshold Buildings
Florida: #782

EDUCATION

Bachelor of Science in Civil Engineering / 1967
University of Tennessee

Master of Civil Engineering / 1972
University of Virginia

PROFESSIONAL AFFILIATIONS:

Florida Engineering Society (FES)
National Society of Professional Engineers (NSPE)
Florida Institute of Consulting Engineers (FICE)
American Consulting Engineers Council (ACEC)

PROFESSIONAL ACTIVITIES

National Society of Professional Engineers/Florida Engineering Society (FES)
- FES Calusa Chapter Offices held: (1983-1987)
  Treasurer,
  Secretary, Vice-President, President; Member since 1977.
  - FES Fellow - 1997
  - FES Regional Vice-President: 1995-1998
  - FES Annual Meeting Steering Committee & Chapter Activities Committee 1996-1997
  - Member ASCE 3 years and APWA local chapter 3 years

PRINCIPAL-IN-CHARGE FOR PROJECTS

THAT INCLUDE:

- Project Manager: Pedestrian Overpass at SR 29 near Immokalee; Collier County, FL
- Project Manager: 3 Bridge Replacement; Lee County, FL:
  - Pennsylvania Avenue over Oak Creek
  - Driftwood Avenue over Burn Burn Creek
  - Cypress Creek Road over Cypress Creek
- Project Manager: Horr's Island Bridge; Marco Island, FL
- Engineer in charge of design & coordinating, Blind Pass Bridge Replacement; Lee County, FL
- Project Manager: Pondella Road Bridge Replacement; Lee County, FL
- Project Manager: Sanibel/Captiva Road Grade Adjustment Project; Lee County, FL
- Project Manager: Design for Structures-Floodplain Reclamation; Sarasota, FL
- Project Manager: Kehl Canal Weir and Gate Structure Replacement; Lee County, FL
- Project Manager and Engineer: Design of numerous weir and gated water control structures
- Project Engineer: Two Pedestrian Bridges for City of North Port, FL
- Project Manager and Engineer: City of Marco Island Bridge Maintenance Program
- Project Manager and Engineer: St. Lucie County Bridge Maintenance System and Bridge Repairs
- Project Manager and Engineer: City of Bonita Springs Bridge Maintenance Program
- Project Manager and Engineer: City Fort Myers Bridge Maintenance Program
- Project Manager and Engineer: City of Port St. Lucie Bridge Program
- Lee County: Kehl Canal Water Control & Weir Structure
- Sebastian, Florida: Elkcam Weir
- East Shore Water Control District: E.S.W.C.D. Pumping Station
- Lee County 5 MGD Corkscrew Water Treatment Plant Expansion
- Sebastian, Florida: Stone Crop Weir
- Mobil Oil Estates: Sailfish Pt Water & Wastewater Treatment Facilities
- Deerfield Beach, FL: Water Treatment Plant Expansion
- City of Sunrise, FL: 12 MGD Water Treatment Plant Expansion
- City of Cape Coral Water Reclamation Facility Repairs
- Gulf Utilities: 3 Oaks Wastewater Treatment Plant (FL. Myers)
- Indian River Co. – Central Wastewater Treatment Plant Expansion
- Mariner Group: South Seas Plantation, Wastewater Treatment Plant Expansion
PROFESSIONAL EXPERIENCE

Ms. Henneberger serves as the Manager of Transportation Engineering Services in our Alabama office. She brings valuable technical and project management experience having successfully managed several team based multi-disciplinary projects. Ms. Henneberger has been responsible for a diverse number of highway and civil engineering related projects. Her experience in roadway design includes the preparation of construction plans consisting of geometrics, typical sections, drainage design, traffic control, erosion control, signing and striping, cross sections, quantity calculations, and cost estimating.

Ms. Henneberger’s experience also includes preliminary roadway design in order for right-of-way to be authorized, including the preparation of right-of-way maps, tract sketches and deeds. She managed roadway projects that include highway widening, denied access highways on new location, interchange design including four level route to route interchanges, industrial access roads and pedestrian walkways.

Ms. Henneberger also has experience in bridge design and inspection. She has designed a number of one and two span replacement structure projects carrying local Township roads over waterways. She has been responsible for the design of reinforced concrete abutments, footings, superstructures and prestressed concrete box beams in accordance with PennDot and AASHTO standards. Ms. Henneberger was part of a team responsible for inspecting approximately 130 bridges of a variety of types, including timber and steel trusses; steel, concrete and timber beams; and stone arches in accordance with the National Bridge Inspection Standards. She was also responsible for the load rating analyses for the structures and the preparation of reports containing inspection findings and recommendations.

YEARS EXPERIENCE
Total Years Experience: 21

PROFESSIONAL REGISTRATION

Alabama : PE #19756
Florida : PE #68650
Tennessee : PE #104343
Pennsylvania : PE # PE-043011-E (inactive status)

EDUCATION
American Society of Civil Engineers
Chi Epsilon
Ms. Nicholson serves as the Manager of Transportation Services in our Alabama office. Ms. Nicholson brings valuable business development, project management, budgeting and administering experience. She has successfully managed several team based multi-disciplinary projects. Ms. Nicholson has extensive bridge design experience from her eight years at the TDOT along with her thirteen years of bridge design experience at TRC. With over 100 bridge repair projects and approximately 350 bridge inspections that she has worked on directly, Ms. Nicholson is very familiar with the technical as well as the management needs of a project. Her experience in bridge repair includes determining the needed repairs from the inspection report and field observations; preparing man-day estimates; designing repairs; preparing design specifications, contract plans, traffic control design, and cost estimates; advising and reviewing the detailer’s drawings; participating in pre-construction meetings and reviewing shop drawings.

She also has experience in new bridge design which includes training, supervising, evaluating, and assigning projects to a structural design engineering staff; advising and reviewing consultants’ plans; evaluating load tests and test piles during construction; and participating in the design of bridges and earth retaining structures. In addition, she has experience in bridge inspections which includes supervising a team of inspectors in the field, acquiring information needed for the inspection reports, gathering measurements for waterway profiles to be used in scour analysis, and preparing the reports.

**YEARS EXPERIENCE**
Total Years Experience: 21

**CERTIFICATION**
- National Bridge Inspection Standard (NBIS)
- FHWA Certified Bridge Inspector

**EDUCATION**
- Master of Science Civil Engineering
  - Vanderbilt University, 1992
- Bachelor of Science Civil Engineering
  - Tennessee Technological University, 1986

**PROFESSIONAL AFFILIATIONS**
- American Council of Engineering Companies (ACEC)
- Birmingham Metropolitan Area Transportation Technical Committee

**CIVIC AFFILIATIONS**
- Member – Fort Morgan Civic Association (FMCA)
- Member – US Tennis Association (USTA)
- Volunteer – Therapy Visit Assistant (TVA) for Hand in Paw
- Affiliate of Delta Society Pet Partners
Tennessee Department of Transportation (TDOT) - Maintenance Division Various Safety Planning & Design Projects

TRC Worldwide Engineering, Inc. worked with the TDOT Maintenance Division to produce Safety Advance Planning Reports for High Hazard intersections. These projects were chosen from the Tennessee High Hazard Accident Location listing. The recommendations of these reports typically included roadway realignment, introduction of turn lanes, and other improvements proposed to improve intersection operations. These reports contained level of service analysis, crash analysis and diagram, benefit/cost analysis, environmental considerations, etc. Approximately ten intersection safety improvement projects were initiated as a result of this program.

Based upon the recommendations of these reports, TRC was asked to move forward to provide land surveys and produce construction plans and documents for these intersection improvement projects. TRC worked with both the Maintenance division and the Design division of TDOT to design the improvements as recommended in the Safety Advance Planning Report and approved by the Safety Committee. TRC also participated in and provided visual materials for Public Meetings as part of the Context Sensitive Design process. These design projects included digital terrain modeling, vertical and horizontal alignments, drainage design, erosion prevention and sediment control, intersection design, and other duties for roadway plans production.

Design Team
Owner: Tennessee Department of Transportation Mike Tugwell, State Traffic Engineer
Tennessee Department of Transportation (TDOT)
- State Route 128 Design Hardin County, Tennessee

This TDOT roadway design project is 5.7 miles in length on the south side of Savannah, TN. It includes 2.5 miles of four-lane rural design and 3.2 miles of five-lane urban design with 30 intersection upgrades. This project is currently in the construction plans phase. TRC developed the Advance Planning Report for this project prior to being awarded the design contract.

Design Team

Owner : Tennessee Department of Transportation
Jane Jones, P.E., Design Manager
TRC Worldwide Engineering, Inc. was awarded this project by the Town of Ashland City. Our services covered a wide range of activities from planning to construction stages. This project required extensive coordination between Tennessee Department of Transportation, Ashland City, Contractors, Corps of Engineers, Cheatham County Railroad Authority, Tennessee Department of Environment and Conservation, and the local community. We were able to serve as a central exchange for most of the activities and stakeholders on this project. Our design activities on this project included roadway alignments, drainage structures, traffic signal design, wetlands mitigation, a pedestrian underpass, railroad coordination, and driveways for various industrial facilities.

**Design Team**

Owner : Ashland City Mayor, Gary Norwood
SR-252 Wilson Pike
Williamson County, Tennessee

TRC Worldwide Engineering, Inc. was retained by the State of Tennessee, Department of Transportation to design the re-alignment and addition of two lanes to this existing State Route 252. TDOT considers this section of Wilson Pike in Williamson County as a priority for reconstruction because of substandard geometry and the need to improve safety.

Information relative to accidents, traffic and geometric deficiencies were evaluated. Existing traffic information was assembled to establish design criteria to meet current standard. Work elements that were included in the design of this project included: surveying, traffic design, highway design, geotechnical design, right-of-way design, utility design and permit preparation.

The final design included widening to provide two lanes in each direction making it a four lane highway. The improvements span a segment of approximately 2.5 miles.

The roadway cross-section width was increased to TDOT standards of 12 ft wide lanes with 8 ft wide shoulders including intersection improvements at each end.

Design Team
Owner : Tennessee Department of Transportation
Roadway Designer : TRC Worldwide Engineering, Inc.
Construction Cost : $10 million
The TRC Transportation Group’s Alabama Office has recently performed a corridor study determining the feasibility of constructing a greenway Bike/Hike trail to connect the Town of Brookside with the CSX Abandonment. This corridor originates at the intersection of Brookside Mt. Olive Road and the CSX Abandonment and runs alongside Brookside Mt. Olive Road across Five Mile Creek into downtown Brookside for an approximate corridor length of 3.7 miles. This route would pass in front of the historic Beehive Coke Ovens. A route is also being considered along Newfound Creek from downtown Brookside to the CSX Abandonment, in which users would experience the natural beauty of the creek, outcropped stone waterfalls and native wildflowers. The restoration of a historic steel truss bridge is also being considered for pedestrian use. The corridor study consists of determining the project alignment, right-of-way requirements, road and water crossings, environmental considerations, proposed amenities, required bridge structures, connections, proposed surfaces, cost estimate, a maintenance plan, and planning considerations. This corridor would provide recreational amenities, alternative transportation routes, cultural and historical preservation for the Town of Brookside.
Hindu Cultural Center Expansion – Davidson County
Nashville, Tennessee

TRC Worldwide Engineering, Inc. developed civil design plans for the expansion of the Sri Ganesha Hindu Temple property located in Nashville, Tennessee. This project includes construction of a 21,000 square foot Cultural Center, three individual residential buildings to serve as Priest quarters, a parking addition of 120 spaces, and a new 35’ landscaped entrance to the Temple from Old Hickory Boulevard. TRC Worldwide Engineering, Inc. worked with the Metro Nashville Codes, Stormwater, and Public Works Departments to insure full compliance with Metro standards and regulations.

Design Team
Owner : Hindu Cultural Center of Tennessee
**Blind Pass Bridge Replacement**  
Sanibel-Captiva Islands – Lee County, Florida

TRC Worldwide Engineering, Inc., as prime consultant, provided structural engineering bridge design, permitting and construction phase services for Lee County Department of Public Works for a new reinforced concrete bridge to connect Sanibel Island and Lower Captiva Island to span navigable Blind Pass. The bridge has 12’ lanes in each direction, a 5’ pedestrian walkway, and a 5’ bicycle path on each side.

**Key Structural Component**
- 460’ long 2-lane temporary pre-engineered timberbridge using pre-cut, creosote pressure treated #1 structural timbers (coastal region Douglas fir)
- 462’ long x 48’ multiple simple span prestressed concrete beam bridge
- Reinforced concrete deck with special coastal wave force/storm lateral loading consideration

**Design Team**

<table>
<thead>
<tr>
<th>Owner</th>
<th>Lee County Department of Transportation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural Engineer</td>
<td>TRC Worldwide Engineering, Inc.</td>
</tr>
<tr>
<td>New Construction</td>
<td>462’ x 48’</td>
</tr>
<tr>
<td>Construction Cost</td>
<td>$2.8 Million</td>
</tr>
</tbody>
</table>
Key Marco Bridge over Blue Hill Creek
Collier County, Florida

TRC Worldwide Engineering, Inc. provided bridge design and construction phase services for a private developer for a 500’ long multiple simple span two-lane bridge over an environmentally protected mangrove floor.

Key Structural Component

- Skewed prestressed deck slab construction
- Special utility trench with removable sidewalk panels
- Special traffic rail/handrail system of horizontal aluminum railing and reinforced masonry posts

Design Team

Owner / Developer : Key Marco Community Development District
Structural Engineer : TRC Worldwide Engineering, Inc.
New Construction : 500’ span
Construction Cost : $1.3 million
St. Lucie County West Turnpike Overpass
St. Lucie County, Florida

TRC Worldwide Engineering, Inc. provided design and construction phase services for St. Lucie County on this overpass widening to allow continuation of a road widening from two to four lanes.

Key Structural Component
- Two lanes and sidewalk companion span
- AASHTO IV girders

Design Team
Owner : City of Port St. Lucie, Florida
Civil Engineer : Culpepper & Terpening, Inc.
Structural Engineer : TRC Worldwide Engineering, Inc.
New Construction : 216' Span
Construction Cost : $1.3 Million
Coconut Cove Bridge
St. Lucie County, Florida

TRC Worldwide Engineering, Inc. provided structural engineering bridge design and construction phase services for the private development Coconut Cove Entrance Bridge over Old Dixie Highway and the Florida East Coast Railroad.

Key Structural Component

- Two lanes and sidewalk
- Three span continuous M270 GR 5OW steel plate girder bridge (150’ – 150’ - 58’)

Design Team

Owner : Coconut Cove LLC, Siemans Group
Civil Engineer : Culpepper & Terpening, Inc.
Structural Engineer : TRC Worldwide Engineering, Inc.
New Construction : 358’ Span
Construction Cost : $3 Million
Vivante Bridge
Punta Gorda, Florida

TRC Worldwide Engineering, Inc. provided structural engineering bridge design and contract administration services for the developer on this new 100’ long, concrete 2-lane bridge as part of an upscale Italian-themed residential waterfront community. This bridge provides interior traffic circulation, as well as navigation for small boats through a connected canal between two large lakes.

Key Structural Component

- 2-lane bridge with sidewalk
- Total Length – 100’
- Continuous reinforced concrete slab deck on reinforced concrete piers
- Prestressed concrete bearing piles and enhanced abutment sheet piles

Design Team

Owner / Developer : The Bove Company
Client / Contractor : Thomas Marine Construction
Structural Engineers : TRC Worldwide Engineering, Inc.
New Construction : 100’ span
Construction Cost : $585,000
Imperial Street Bridge  
Bonita Springs, Florida

TRC Worldwide Engineering, Inc. provided structural engineering bridge design and contract administration services on this new 218’ long, 77” wide, 5-span bridge.

Key Structural Component
- 2-lane bridge with sidewalks
- Total Length – 218 feet
- (2) 2-span continuous slab bridge approach spans
- (1) AASHTO III 76-foot main span over the Imperial River

Design Team
- Client: Hole Montes
- Structural Engineers: TRC Worldwide Engineering, Inc.
- New Construction: 218’ span
- Construction Cost: $2.5 million
Miramar Bridge
Lee County, Florida

TRC Worldwide Engineering, Inc. provided structural engineering bridge design and contract administration services for the developer on this new 100’ long, concrete 2-lane bridge as part of an upscale residential water sports community. This bridge provides interior traffic circulation, as well as navigation for small boats through a connected canal between two large lakes.

Key Structural Component

- 2-lane bridge with sidewalks
- Total Length – 100’
- Continuous reinforced concrete slab deck on reinforced concrete piers
- Prestressed concrete bearing piles and sheet piles architecturally enhanced to show arches

Design Team

Owner / Developer : Miramar Development Corporation
Client / Contractor : Thomas Marine Construction
Structural Engineers : TRC Worldwide Engineering, Inc.
New Construction : 100’ span
Construction Cost : $800,000
Railroad Bridge Conversion – Collier’s Reserve
Collier County, Florida

TRC Worldwide Engineering, Inc. provided design and construction phase services for Collier’s Reserve on this unique bridge conversion from railroad use to vehicle traffic for a country club community entry bridge.

Key Structural Component
• Unique steel girder/transverse steel beam deck support
• Two lanes with sidewalk and special timber traffic/handrailing system

Design Team
Owner : Collier Enterprises
Structural Engineer : TRC Worldwide Engineering, Inc.
New Construction : 181’ span
Construction Cost : $325,000
Royal Wood Water Control Structure
Collier County, Florida

TRC Worldwide Engineering, Inc. provided structural engineering services for this weir gated control structure as part of a drainage control project for the Lely area of Collier County.

Key Structural Component
- Reinforced concrete gated structure
- Retaining wall style concrete weir
- Walkway for gate operations

Design Team
Owner : Collier County, Florida
Civil / Water Management : Agnoli, Barber & Brundage
Structural Engineer : TRC Worldwide Engineering, Inc.
Construction Cost : $138,500
Kehl Canal Weir Replacement
Lee County, Florida

TRC Worldwide Engineering, Inc., provided structural engineering services to Lee County on this $850,000 weir replacement structure as part of a critical flood control project for the Bonita Springs area.

Key Structural Component
- Reinforced concrete gated structure
- Steel sheet pile cut-off walls
- Retaining wall style concrete weir

Design Team
Owner : Lee County, Florida
Civil / Water Management : Agnoli, Barber & Brundage
Structural Engineer : TRC Worldwide Engineering, Inc.
Construction Cost : $ 850,000
Tradition Master Control Weir
Port St. Lucie, Florida

TRC Worldwide Engineering, Inc. provided structural engineering design and contract administration services for the developer on this new water control/weir for a major drainage canal in a residential community.

Key Structural Component
- Heavy steel sheet piling coated for longevity
- Concrete trim cap
- "Bleeder" slot

Design Team
Owner / Developer : Tradition Development, LLC
Client / Contractor : Engineering Design & Construction
Structural Engineer : TRC Worldwide Engineering, Inc.
Construction Cost : $275,000
Section Four

Office Locations
**Office Locations**

**Corporate Office:**

**TENNESSEE**
217 Ward Circle  
Brentwood, TN 37027  
(615) 661-7979 / Fax: (615) 661-0644

**ALABAMA**
6283 Park South Drive, Suite 102  
Bessemer, AL 35022  
(205) 425-4787

**ARIZONA**
17700 N. Pacesetter Way, Suite 102  
Scottsdale, AZ 85255  
(480) 699-5410 / Fax: (480) 699-5412

**FLORIDA**
3590 NW 56th Street  
Fort Lauderdale, FL 33309  
(954) 484-7777 / Fax: (954) 484-7834

12550 Professional Park Drive, Suite 7  
Fort Myers, FL 33913  
(239) 939-1414 / Fax: (239) 278-4289

2011 South 25th Street, Suite 211  
Fort Pierce, FL 34947  
(772) 466-3773 / Fax: (772) 468-3700

2907 Spring Glen Road  
Jacksonville, FL 32207  
(904) 399-3534 / Fax: (904) 399-4857

2801 Fruitville Road, Suite 200  
Sarasota, FL 34237  
(941) 952-1717 / Fax: (941) 366-7724

18938 North Dale Mabry Hwy., Suite 101  
Lutz, FL 33548  
(813) 909-1611

**GEORGIA**
260 Peachtree Street, Suite 800  
Atlanta, GA 30303  
(404) 875-0660 / Fax: (404) 875-0650

**ILLINOIS**
27 East Monroe Street, Suite 514  
Chicago, IL 60603  
(312) 629-2281 / Fax: (312) 629-2580

3171 Greenhead Drive  
Springfield, IL 62711  
(217) 793-2299 / Fax: (217) 793-3311

**MARYLAND**
13 Firstfield Road, Suite 200  
Gaithersburg, MD 20878  
(301) 258-0933 / Fax: (301) 926-3109

**PENNSYLVANIA**
7310 Tidghman Street, Suite 60  
Allentown, PA 18106  
(610) 871-3935 / Fax: (610) 871-4515

18 South George Street, Suite 702  
York, PA 17401  
(717) 848-2590 / Fax: (717) 848-2640

**TEXAS**
13800 Montfort Drive, Suite 145  
Dallas, TX 75250  
(972) 991-1188 / Fax: (972) 991-1192

**WASHINGTON D.C.**
1001 Connecticut Avenue, NW Suite 320  
Washington, DC 20036  
(202) 452-1103 / Fax: (202) 452-1133