

Phone: 225.368.2800 Fax: 225,368,2801



April 12, 2022

Louisiana Department of Transportation and Development Attn: Consultant Contract Services Administrator 1201 Capitol Access Road, Room 405-E Baton Rouge, LA 70802

RE: Contract No. 4400023812 - IDIQ Contract for Weigh Station Assessment, Rehabilitation and Plan Development Statewide

Dear members of the selection committee:

The State of Louisiana is entering a new era of commercial vehicle size and weight enforcement. Recent legislation has transferred the operation and maintenance of stationary weight enforcement scale locations from the Department of Public Safety and Corrections to the Louisiana Department of Transportation and Development (LADOTD). This presents an opportunity to increase safety and enhance mobility which will further economic competitiveness through the efficient movement of goods by commercial motor vehicles.

HNTB Corporation is pleased to submit our team's statement of qualifications to LADOTD for support of the Weigh Station Assessment. Rehabilitation and Plan Development Statewide program. We understand that LADOTD desires a team that can support the full program requirements, from traditional planning, design, construction and traffic operations to policy and procedural elements. To meet these expectations, the HNTB team was assembled to draw on national best practices and industry relationships to drive development and deliver a successful program. We know that a successful size and weight enforcement program provides a return on investment through the reduction in impacts on the state's most costly assets; bridges, pavement and increased safety of all roadway users.

The HNTB team brings three key benefits to this weigh station program:

- Full-Service Support: The HNTB team is led by subject matter experts with a strong local core group that has a 56-year working relationship with the LADOTD. This team has the skill sets to accomplish the full scope - from feasibility to performance monitoring of improvements - and deliver a comprehensive program. Our experience in evaluating and designing weigh stations and managing enforcement staff provides hands-on knowledge of the intricacies associated with an effective size and weight program. This includes updating enforcement, permit and other manuals; standard operating procedures; and innovative technology to efficiently operate and maintain the program.
- **Focus on Implementable Solutions:** The HNTB team will focus on solutions that drive success, leveraging our experience and industry partner relationships. During the early phases of the project, we will focus on activities that yield quick results while keeping the long-range vision of the program top of mind. With recent and relevant experience on feasibility studies and program planning activities, our team will leverage proven best practices to maximize existing available infrastructure while providing safe and efficient enforcement activities.

 Industry Leaders in Emerging Technologies: The HNTB team is driving the development. implementation and integration of technologies and data sharing opportunities to future-proof your system. With our experience in intelligent transportation system (ITS) infrastructure and adoption of connected and automated vehicles (CAV), the HNTB team is equipped to provide solutions to minimize cost while increasing customer service and attracting industry. Innovations may include the use of in-cab messaging for mainline weigh in motion (WIM) sort decisions, eliminating the need for roadside dynamic message signs (DMS) and supporting freight-related use cases, such as active work zone management.

We have organized the HNTB team with Craig Toth, PE as project manager and Rick Hathaway, CCM who will serve as the local deputy project manager, combining national weigh station design and rehabilitation experience with local design and construction process and procedure knowledge. Our team is committed to delivering multiple concurrent assignments, with our 4for4 promise of quality work, on time, within budget and to your satisfaction.

Craig and his leadership team will employ their knowledge to tap into a collaborative and focused group of experts in planning, design, asset management, policy, training and technology deployment. HNTB is joined by **Cambridge Systematics**, **Inc.** with whom we are working with to deliver weigh station, freight mobility and safety projects for departments of transportation (DOTs) around the country. They will support planning and performance measures and we will leverage our partnership on the Louisiana Statewide Transportation Plan and Statewide Travel Demand Model for commercial vehicle traffic forecasts and planning consistency during the evaluation and planning phase of this program. We assembled this team with a focus on local knowledge and expertise within each discipline area, Arcadis U.S., Inc. will provide roadway, drainage and ITS support services and Manning, APC (DBE) will support the building evaluation and upgrades, including HVAC, staff ergonomics and safety considerations, APS Engineering and Testing, LLC (DBE) will provide geotechnical investigations, design and post design support with **ELOS Environmental**. **LLC** supporting environmental evaluations. Forte and Tablada, Inc. and GOTECH, Inc. (DBE) will provide survey and right of way (ROW) mapping activities.

HNTB is pleased to include local DBE firms for 14% of the contract, exceeding the minimum 4% requirement, to provide specialized services, and illustrates our commitment to partnering for the benefit of LADOTD and the growth of these DBE firms.

Our top priority is supporting LADOTD in the successful transition to efficient operations and maintenance of the weigh stations and staffing the Weights and Standards Stationary Scales Police Force. We are pleased to continue our long-standing partnership during this transformative process. The HNTB team is ready to begin work, and we look forward to delivering outstanding service.

Respectfully submitted,

HNTB Corporation

Gulf Coast District Office Leader (225) 368-2803 bryanjones@hntb.com

Project Manager (813) 373-9939 ctoth@hntb.com

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DOTD FORM: 24-102 PROPOSAL TO PROVIDE CONSULTANT SERVICES

Prime consultant should fill in the DOTD Form 24-102 provided without altering the text provided in the form; however, the instruction and/or guidance for Sections 12 through 24 can be removed but do not remove Section title and number.

Prime consultant should enter the firm name in the footer at the bottom of this page. (It will carry over to subsequent pages.)

1.	Contract title as shown in the advertisement	IDIQ Contract for Weigh Station Assessment, Rehabilitation and Plan Development, Statewide
2.	Contract number(s) as shown in the advertisement	4400023812
3.	State Project Number(s), if shown in the advertisement	N/A
4.	Prime consultant name (as registered with the Louisiana Secretary of State where such registration is required by law)	HNTB Corporation
5.	Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF.0001775
6.	Prime consultant mailing address	10000 Perkins Rowe, Suite 640, Baton Rouge, LA 70810
7.	Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	10000 Perkins Rowe, Suite 640, Baton Rouge, LA 70810
8.	Name, title, phone number, and email address of prime consultant's	Bryan Jones, Gulf Coast District Office Leader
	contract point of contact	Phone: (225) 368-2803 Email: bryanjones@hntb.com
9.	Name, title, phone number, and email address of the official with signing	Bryan Jones, Gulf Coast District Office Leader
	authority for this proposal	Phone: (225) 368-2803 Email: <u>bryanjones@hntb.com</u>



10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered Signature (shall be the same person as #9): all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in Date: April 12, 2022 commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response. Firm(s): Firm(s) %: APS Engineering and Testing, LLC 5% 11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used GOTECH, Inc. 5% to meet the DBE goal and each firm(s)' percentage. Manning, APC 4%



14%

Total:



12. Past Perfor	mance Evaluation	Discipline Table								
Evaluation Discipline(s)	% of Overall Contract	HNTB Corporation (Prime)	APS Engineering and Testing, LLC (DBE)	Arcadis U.S., Inc.	Cambridge Systematics, Inc.	ELOS Environmental, LLC	Forte and Tablada, Inc.	GOTECH, Inc. (DBE)	Manning, APC (DBE)	Each Discipline must total to 100%
Road	10%	90%		10%						100%
Bridge	1%	100%								100%
Traffic	5%	50%		50%						100%
CE&I/OV	3%	75%		15%				10%		100%
Geotech	5%	5%	95%							100%
Survey	5%						50%	50%		100%
Environmental	5%	15%				85%				100%
Data Collection	5%	60%		10%	30%					100%
Planning	10%	50%		10%	40%					100%
Right-of-Way	4%						50%	50%		100%
СРМ	2%	100%								100%
ITS	5%	70%		30%						100%
Other	40%	80%		10%					10%	100%
Identify the perce	ntage of work for the	e overall contract	to be performed by	the prime consult	ant and each sub-	consultant.				
Percent of Contract	100%	61%	5%	11%	5%	4%	5%	5%	4%	

CONTACT NO: **4400023812**





13. Firm Size			
Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
HNTB Corporation (Prime)	Computer Analyst	5	104
	Economist	1	61
	Engineer - LA PE	7	49
	Engineer - Other	14	970
	Environmental Professional	1	19
	GIS Analyst	1	25
	Graphics	2	44
	Inspector	1	229
	Planner	4	225
	Principal	1	74
	Senior Technician	4	10
	Other	3	1563
	Engineer	2	5
APS Engineering and Testing, LLC	Driller	3	3
	Technician	2	12
	Biologist/ Wetlands	5	8
	Engineer	3	9
	Planner	2	4
	Principal	2	4
Arcadis U.S., Inc.	Environmental Professional	3	3
	Supervisor Engineer	4	8
	Supervisor Engineer-Other	2	3
	Engineer - Other	1	1
	Engineering Aide	1	2



13. Firm Size			
Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
	Principal	1	51
Cambridge Systematics, Inc.	Planner	1	62
	Engineer - Other	1	3
	Environmental Professional	1	2
ELOS Environmental, LLC	Environmental Manager	1	5
	Technician	1	10
	Engineer	1	7
GOTECH, Inc.	Surveyor	1	2
	Party Chief	2	2
Manning, APC	Architect	2	3

CONTACT NO: **4400023812**





14. Organizational Chart

Legend

- HNTB Corporation
- APS Engineering and Testing, LLC (DBE)
- Arcadis U.S., Inc.
- Cambridge Systematics, Inc.
- ELOS Environmental, LLC
- Forte and Tablada, Inc.
- GOTECH, Inc.(DBE)
- Manning, APC (DBE)

Minimum Personnel Requirements

- ^[1] David Flanders, PE
- [2] Kate Prejean, PE
- [3] Christopher "Craig" Toth, PE

Licenses and Certifications

Traffic Engineering Process and Report Training Course:

Joseph "Joe" Blasi, PE, PTOE

Traffic Control Supervisor:

Rick Hathaway, CCM Kyle LeBlanc

Flagger:

Rick Hathaway, CCM Kyle LeBlanc

Principal in Charge [1] David Flanders, PE

• [3]Christopher "Craig" Toth, PE

LADOTD

Nicholas Fagerburg, PE

Project Manager

Rick Hathaway, CCM

Quality Manager Ben Goodner, PE

Deputy Project Manager

Planning

Traffic

Kip Strauss, AICP

Feasibility Studies

- Jessica Dean, PE
- Dharmin Kukadia. PE

Program Planning

- Jeremy Upchurch
- Adam Danczyk, PE, PTOE

Project Prioritization

Jeremy Upchurch

Master Plan/Schedule/Cost

- Jessica Dean, PE
- Gala Rosborough, CCP
- Pradeep Rao, PE
- Gui Leao

- Joseph "Joe" Blasi, PE, PTOE
- Akhil Chauhan, PE, PTOE, PTP, PMP

Grant/Funding

- **Opportunities**
- Chad Thompson, PE
- Michael DeMent, APR
- Paula Dowell, PhD

Environmental

- Lynn Maloney-Mujica, AICP
- Stehle Harris

Design

• [2] Kate Prejean, PE

Roadway Design

Randal Bonura, PE

Lighting, Signing & **Pavement Markings**

- Rick Hathaway, CCM
- Randal Bonura. PE

Architecture

- Tighe Kirkland, Assoc. AIA
- Craig King

Water/Wastewater/Utility

- Mira Para, PE
- Collins Landry

Construction Support

- Rick Hathaway, CCM
- Kyle LeBlanc

Survey/ROW

- Ross Wilson, PLS
- Robert Price, PLS
- Bruce Dyson, PE, PLS

Geotechnical

- Brian Powell PE
- Sergio Aviles, PE

Asset Management/ **Performance Monitoring**

Jonathan Liby

Initial Inventory & **Conditions Assessment**

- Kyle LeBlanc
- Bradley Holleman, PLS, El

Needs Assessments

- Rakesh Sharma, PE, PTOE
- Dharmin Kukadia PF

Asset Management

- Laura Wagner-Bartz, PE
- John Benda

Performance Measures

Mike Williamson

Contract Solutions/ **Alternative Delivery**

- Todd "Dusty" Bastion, PE
- Brad Guilmino

Inspector Daily Logs Tim Howerton

Policy

Emerging Technologies

- Beth Kigel
- Greg Krueger
- Jimmy McDonald

Enforcement Manuals

Derek Barrs

Standard Operating Procedures

- Steve Bahler, PE
- Victor Blue, PE, PhD

Systems Engineering

- Jess Baker, SEP
- Victor Blue

FMCSA Program Plan/ Top Level Design

- Rakesh Sharma
- State Enforcement Plans Derek Barrs

Derek Barrs

Content Development Derek Barrs

Graphic Design

Jennifer Schultz

Laura Pichard-Murphy

Partnership Groups

- Derek Barrs
- Lynn Maloney-Mujica, AICP

ITS/Technology Charles Farnham, PE

Technology Program Management

Alex Kavanagh, PMP. PMI-ACP

ITS/Networking

- Charles Koonce. PE
- Charles "Chuck" Miller, PE, PTOE, PhD
- Paul Hsu, PE
- Luis Alverque, PE

Weigh In Motion

- Malcolm Tomatani PF Pradeep Rao, PE
- Fabian Kalapach, PE

Ancillary Devices

- Pradeep Rao. PE
- Fabian Kalapach, PE

Data Management/Exchange

- Mark Dunthorn Clay Packard, PE
- Dashboard/Reporting Janelle Versnick, GISP





15. Minimum I	15. Minimum Personnel Requirements									
MPR No.	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license / certification required	State of license	License / certification expiration date					
1	David Flanders, PE	HNTB Corporation	Professional Civil Engineer / #35264	LA	#35264 / 09-30-2022					
2	Kate Prejean, PE	HNTB Corporation	Professional Civil Engineer / #35036	LA	#35036 / 3-31-2024					
3	Christopher Craig Toth, PE	HNTB Corporation	Professional Engineer / #58197	FL	#58197 / 02-28-2023					





16. Staff Experience								
Firm employed by: HNTB								
Name	[3]Christoph	ner "Craig" Toth, PE		Years of relevant experience with this employer	17			
Title	Project Manag	er, Vice President		Years of relevant experience with other employer(s)	7			
Degree(s)	/ Years / Speci	alization	MS / 1998 / Civil Eng BS / 1996 / Civil Eng					
Active reg	istration numb	er / state / expiration date	#58197 / Florida / 2	-28-2023				
Year regis	tered	2002		Discipline	Professional Engineering			
Contract r	ole(s) / brief de	escription of responsibilities	Project Manager Minimum Personn	el Requirement #3				
clients. He l technologie station ass	has managed mu es. He brings a ho et management,	Itiple general engineering consultant (GEC) con plistic view enabling multiple stakeholders need feasibility analysis, design, technology integrat	ntracts, from tradition ds to be addressed in tion and program sup	ssing projects for multiple departments of transportation and toll hal design to commercial vehicle operations (CVO), traffic incident a collaborative environment. Craig brings recent, relevant experie port. His recent experience includes clients in Florida, Texas, Nort weigh station rehabilitation and technology deployment. Crai	management (TIM) and emerging nce with project management of weigh n Carolina, Georgia and New York. In			
Experienc (mm/yy-m				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).				
02/15-Ongo	"designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). Florida Department of Transportation (FDOT) Chief Engineer Support Services, Statewide, Florida Project manager for overall program management duties for all task work order-based assignments. Served as the project manager in a system management role for the overall delivery of the truck parking availability system (TPAS). TPAS was provided for all public sites for the length of the interstates within Florida, including 10 weigh station locations along I-10, I-75, I-95 and I-4. The project includes coordination with multiple districts and agencies in an accelerated environment to meet the Federal AlD and FASTLANE grant requirements. The program was delivered as a series of design-build projects and required extensive coordination with Districts 1, 2, 3, 4, 5 and 7 staff and multiple departments, including ITS, maintenance, environmental, ROW, construction and utilities. As part of the TPAS program development, research into available technology, including performance evaluation, was provided through a research project with a local university. Developmental specifications were prepared for the technology based on the results of the research. Standard operating guidelines were developed for Regional Transportation Management Center (RTMC) staff for verifying information obtained through TPAS sensors, including updating to data dissemination platforms. Stations included the US-17 (SR 20/SR 100) Virtual Weigh-in-Motion (VWIM) Station in Palatka, Florida, as well as stations in Pensacola, Sneads, Madison, White Springs, Wildwood, Punta Gorda, Yulee, Flagler, Martin and Seffner, Florida. This provided a solution to screen commercial vehicles prior to the static scale facility located in the median of the arterial roadway. Due to bypass corridors around the weigh station, av WVIM was also installed for mobile enforcement effort. Rehabilitation for the US 1 Plantation Key weigh station was designed which included p							



Craig Toth, PE (c	Craig Toth, PE (cont.)							
03/17-Ongoing	FDOT Motor Carrier Size and Weight (MCSAW) Program Support, Tallahassee, Florida Project manager working alongside FDOT's statewide scale operations manager supporting FDOT's MCSAW program, including planning; performance measures; outreach and training; specifications and standards; and telecommunications and networking. This contract works closely with other state agencies including the departments of Highway Safety and Motor Vehicles, Agriculture and Consumer Services and Revenue, as well as key industry partners such as the Florida Trucking Association (FTA). Specific tasks include facilitation of a strategic plan visioning session which brought together various FDOT departments, state agencies and industry stakeholders to collaborate. The session set the framework for future technology enhancements; the development and deployment of a fiber optic inter-connection plan to link all interstate weigh stations on a fiber optic network; the piloting of mainline screening technologies to allow for increased efficiency of CVO; and the development of a GIS-based asset management platform. The platform included initial inspection and rating based on FDOT maintenance rating factors and led to the prioritization of activities for scale facility repairs and the programming of projects into a 10-year cost feasible plan and five-year work program. In addition, this contract is leading further development of the database system which will provide increased tracking capabilities of freight movement, to ultimately include size, weight, bill of lading and permit tracking.							
02/15-Ongoing	FDOT CVO/TIM Program Consultant, Statewide, Florida Project manager overseeing support services for these two critical areas of the State Traffic Operations Office. This contract supported the evaluation and implementation of truck parking location expansions throughout the state, including leveraging other publicly owned locations as well as incorporation of private facilities into the TPAS network. Innovative approaches, including parking management strategies to maximize available infrastructure are being developed to provide immediately achievable expansion. Craig also provided management oversight in the development of a feasibility study to implement a pilot project for the use of technology to link specific vehicles to oversize/overweight permits to streamline the operations once vehicles have been verified for compliance. This contract also updated the citation tracking tool, a critical application in the management of protested commercial vehicle citations, in support of the Review Board. HNTB provided website updates, including the advancement of features on the Road Ranger Service Patrol to enhance user support and feedback. The TIM Strategic Plan and CVO business plan were developed under the program. The TIM Strategic Plan included focus on increased safety through enhanced services such as the Road Ranger Service Patrol. The CVO Strategic Plan focused on safety and mobility though partnership and technology deployments.							
03/20-Ongoing	Texas Department of Transportation (TxDOT) WIM and Vehicle Classification Strategic Plan, Statewide, Texas Work authorization manager developing a strategic plan for the statewide traffic data collection system. Through this work authorization, working group meetings were held with representation from all 25 TxDOT districts to provide guidance and feedback on the goals, objectives and strategies for the plan. A GIS-based tool was developed to support the identification and prioritization of elements for deployment for input by the District offices. Partnership meetings were held with other public agency stakeholders to collaborate and expand the effectiveness of the system. A 10-year plan was developed focused on expansion, maintenance, collaboration, data use and future application through specific implementable actions, including necessary policy and contracting modifications.							
05/19-Ongoing	Weigh Station Feasibility Study, NCDOT ITS and Signal Management Unit, Raleigh, North Carolina Project manager for the re-evaluation of a 2004 feasibility study of the statewide weigh stations. The study was undertaken to review the prior analysis and provide updated recommendations. The original study recommended a "modified port of entry" concept where commercial motor vehicles would be weighed leaving the state with virtual weigh in motion equipment instead of fixed static scale facilities. This approach required the use of mobile enforcement personnel and roadside weight verification using portable scales. Recommendations included updates to existing static weigh station facilities, relocation of facilities to increase the efficiency and safety of operations and the addition of new facilities for emerging freight corridors. Virtual weigh in motion locations were also recommended to support known by-pass routes of fixed weigh stations as well as emerging freight corridors. Other recommendations included the development of a program plan to prioritize and fund improvements as well as additional technology to increase efficiency. During the study, stakeholder coordination occurred with staff within the North Carolina Department of Transportation, North Carolina Department of Public Safety as well as neighboring states DOT and enforcement agencies.							

CONTRACT NO: **4400023812**



16. Staff	16. Staff Experience							
Firm empl	Firm employed by: HNTB							
Name	Rick Hathav	vay, CCM		Years of relevant experience with this employer	12			
Title	Transportation	Section Manager		Years of relevant experience with other employer(s)	29			
Degree(s)	/ Years / Speci	alization	BS / 1982 / Civil Eng	ineering				
Active reg	jistration numbe	er / state / expiration date	#5962 / National ATTSA: Traffic Cor	ntrol Supervisor; Flagger				
Year regis	stered	2015		Discipline	Certified Construction Manager			
Contract r	role(s) / brief de	escription of responsibilities	Deputy Project Man	ager; Lighting, Signing & Pavement Markings; Construction Support				
engineering of Southea	g in New Orleans, st Louisiana with	Baton Rouge and Southeast Louisiana. He prevover a \$200-million program budget consisting	viously managed the g of 33 projects, 123 re	nd service areas involving civil, transportation, municipal, commercial a pre-construction and construction activities of the Submerged Roads a padway segments and 104 miles of roadway. He currently serves as trar on projects, for the DOTD and local government.	nd Paths To Progress programs			
Experienc (mm/yy-n				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).				
09/18-0ngc	bing	program and is responsible to manage const	truction activities, pro	construction manager for the \$800-million ovided guidance on 5% design reports of proposed roadway alignments nates. As projects near design, completion is responsible for bid packages.	and utility relocations, prepared			
12/15-Ongo	ing	reconstruction project and is responsible for	r the review of proje Standard Plans, Road	ct plans and specifications. Tasks include preliminary and final submi way Design Guide and general construction practices. Coordinates with				
10/16-Ongo	LADOTD I-10 Calcasieu River Bridge, Lake Charles, Louisiana QA/QC transportation manager for the \$800 million bridge roadway reconstruction project responsible for the supervision and review of the project roadway alignment. Tasks include horizontal and vertical geometry submittals for accuracy and compliance with the LADOTD General Specifications and Standard Plans, Roadway Design Guide and general construction practices. Supervision of staff to provide all required deliverables for the Environmental Impact Study including plan/profile sheets, construction cost estimates, response to public input, and attendance at public meetings and presentations.							
10/16-Ongo	ing	intersecting T-intersection bridge near Golde to the new LA 1/LA 3235 bridge. Supervised c and standards . Managed additional scope o with LADOTD the proposed roadway and drai	on project. The scope en Meadow. The T-inte development of deta of work of LADOTD con inage design features	Roadway project manager performing supervision and quality control of this project is to provide a new two-lane bridge from Leeville to Goldersection has a stem that consist of a two-lane, two-way urban arterial relied construction plans conforming to AASHTO Road Design Manual tracted surveyor, reviewed recommendations on horizontal geometric to meet the department's minimum design guidelines, Road Design Manuals and bicyclists per the LADOTD's complete streets policy.	len Meadow that includes an roadway that connects existing LA 1 al and LADOTD design guidelines alignment layouts, and coordinated			



16. Staff I	16. Staff Experience							
Firm employed by: HNTB								
Name	Ben Goodne	er, PE		Years of relevant experience with this employer	15			
Title	Structural Engi	ineer		Years of relevant experience with other employer(s)	0			
Degree(s)	/ Years / Specia	alization	BS / 2008 / Civil End	gineering				
Active reg	istration numbe	er / state / expiration date	#38208 / Louisiana	/ 03-31-2024				
Year regis	tered	2013		Discipline	Civil Engineering			
Contract r	ole(s) / brief de	escription of responsibilities	Quality Manager					
	ructural engineer modeling in civil d		, roadway, drainage d	esign, levee inspection, bridge design, bridge inspection application of E	entley MicroStation and Inroads,			
Experienc (mm/yy-n				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).				
05/13-06/17	D5/13-06/17 LADOTD LA 1 Phase 2, Leeville to Golden Meadow, Louisiana Lead engineer responsible for developing design and plans for the nine-mile stretch of bridge and a 300-foot concrete T-Wall. His responsibilities included preliminary superstructure design of LG girders, deck design, substructure design, preliminary and final plan development, checking plans and design calculations, T-Wall site layout, plan and specification development. This \$450-million project will provide a new two-lane bridge from Leeville to Golden Meadow that includes an intersecting T-intersection bridge near Golden Meadow. The T-intersection has a stem that consist of a two-lane, two-way urban arterial roadway that connects existing LA 1 to the new LA 1/LA 3235 bridge. Performed field investigations, developed detailed plans conforming to LADOTD design guidelines and standards. Coordinated with LADOTD the proposed roadway and drainage design features to meet the department's minimum design guidelines, Road Design Manual, EDSM publications, and conform to the Hydraulics Manual. Roadway design includes accommodations for pedestrians and bicyclists per the LADOTD's complete streets policy.							
06/17-09/17	06/17-09/17 LADOTD US 90 Atchafalaya River Bridge Repairs, Morgan City, Louisiana River Bridge based on the inspection report. Repair items consisted of lower chord splice plate repairs, connection angle and plate retrofits and replacements, replacing missing or severely corroded bolts and rivets, retro fit of a new safety cable system, and gusset plate stiffening.							
2012-2013	2012-2013 LADOTD I-20 Ouachita River Bridge, Ouachita Parish, Louisiana Checked the bearing design for this bridge rehabilitation as well as assisted in developing plans for this project work, which includes: cleaning and painting of steel girders, structural concrete repairs, girder bearing replacement, finger joint replacement, joint seal installation, barrier rail modifications, epoxy deck overlay, approach slab replacement, and guardrail installation.							
2011-2014	LADOTD Temporary WIM Truck Study and Louisiana Design Truck Analysis, Louisiana Coordinated with members of the LADOTD and IRD, helped select three sites for temporary WIM stations, and helped monitor installation of equipment. He assisted collecting data to be used in the analysis and redesign of the Louisiana design truck and the reliability analysis.							
2011-2017		LADOTD I-20 Bossier City Bridge Inspect diagnosed the deficiencies. He was a key me		sier City, Louisiana Inspected five bridges along I-20 in Bossier City, signing new bearings for each bridge and addressing deficiencies.	analyzed the structures, and			



16. Staff I	Experience						
Firm employed by: HNTB							
Name	[1]David Fla	nders, PE		Years of relevant experience with this employer	14		
Title	Project Directo	or, Vice President		Years of relevant experience with other employer(s)	24		
Degree(s)	/ Years / Speci	alization	MBA / 1991 BS / 1983 / Civil Eng	ineering			
Active reg	istration numb	er / state / expiration date	#35264 / Louisiana	/ 09-30-2022; 17666 / Georgia / 12-31-2022			
Year regis	tered	2010 (LA); 1989 (GA)		Discipline	Civil Engineering		
Contract r	ole(s) / brief de	escription of responsibilities	Principal-in-Charge Minimum Personn	el Requirement #1			
program m	anagement assig	nments including the Georgia Department of Ti	ransportation's (GD01	erations management across the southeast United States and has serv 7) Office of Innovative Delivery (OID) Program Management contract, Lo t manager and principal for numerous major infrastructure projects in	uisiana's Submerged Roads Program		
Experienc (mm/yy-n				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).			
01/16-0ngo	ing	I-75 commercial vehicle lanes (CVL) project a	f the quality manage s one of the 11 major	Program quality manager for the program including preparation of tement system and introductory training to the team. He has also serv mobility improvement projects delivered through alternative delivery pled, for commercial vehicles only, along I-75 between Macon and McDol	ed as mega project manager for the procurements. The I-75 CVL project		
01/09-01/16		engineering consultants, design plan phase s Management Agency (FEMA), local utility pro	submittals review and viders and MSDOT. HN	pi Project engineer on this project, reconciling FEMA project works I project controls efforts. The program included close coordination wit ITB worked with the City of Biloxi, FEMA, Mississippi Emergency Managere improvements to sewer, water and drainage facilities damaged beca	h the Federal Emergency ement Agency (MEMA) and the		
2007-2012							
2012-2016 LADOTD Paths to Progress Program, New Orleans, Louisiana Program administrator for this continuation of the Submerged Roads Program through 2016. His responsibilities included staffing, project quality reviews, consultant contracting, resource allocations, agency coordination and public outreach initiatives.							
2013-2016		multiple pipelines and a levee crossing as we the development of a design documentation obtaining 408 and 404 permits from the USA	nt connects to and co ell as connection to LA report (DDR) and coo CE for construction o	Project manager for the design of approximately nine miles of elevantinues the Phase 1 structure from Leeville to Golden Meadow. Phase 2 A 3235. The design also includes the construction of a 300-foot T-Wall ardination with the United States Army Corps of Engineers (USACE), New of the T-Wall, levee improvements and bridge foundation improvements ign includes intelligent transportation systems (ITS) and future tolling	design includes spanning of t the levee crossing which required v Orleans District. Assisted with within 300 feet of the levee while		



16. Staff	Experience							
Firm emp	Firm employed by: HNTB							
Name	Kip Strauss	Kip Strauss, AICP Years of relevant experience with this employer 17						
Title	Transportation	n Planning Department Leader, Associate Vice P	President	Years of relevant experience with other employer(s)	2			
Degree(s	i) / Years / Speci	alization	MBA / 2007 MS / 1993 / Transpo MS / 1993 / City Plan BS / 1989 / Liberal A	nning				
Active re	gistration numb	er / state / expiration date	AICP #012543/ Natio	onal / N/A				
Year regi	istered	1997		Discipline	N/A			
Contract	role(s) / brief de	escription of responsibilities	Planning Lead					
including i	multimodal transp	ortation studies, highway and arterial corridor	studies, freight stud	extensive experience working on and managing transportation planr ies, travel demand modeling studies, toll traffic and revenue studies Overland Park, Kansas planning commissioner.				
Experien (mm/yy-				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).				
01/20-0ng	going	rail plan in 2020 and 2021 focused on action stakeholder and partner input, resulting in a the public and private benefits and costs of the public and costs of	able strategies and comprehensive plan freight investments to	ht and Rail Plan, Statewide, Missouri Project manager for this r investments. The plan will be fueled by data-driven, performance-be that enables MoDOT to target investments that sustains the competi of facilitate cost-sharing and aligns with MoDOT's broader Long-Range e Citizen's Guide. HNTB is responsible for the rail, aviation and public	ased decision-making tools along with tive advantage of the state, recognizes Transportation Plan (LRTP) and			
2020-Ong	oing	corridor project known as 69 Express. Led a	team to develop a bre express toll lanes we	ization and Expansion Project, Johnson County, Kansas Traffie eak-in-access for KDOT and FHWA for the express tolling option for exprese being considered for the area. He worked closely with all project disc.	pansion for the US 69 corridor in			
01/19-12/20	FDOT Addressing Automated, Connected, Electric and Shared-Use Vehicle Impacts in Planning Documents, Tallahassee, Florida Task lead responsible for the Shared-Use Vehicle impacts in planning documents. Metropolitan areas across the nation and around the world are facing a technology revolution that could fundamentally change how people and goods move from place to place. This report supports state and local planning agencies, such as metropolitan planning organizations (MPOs), by providing language and ideas that they may incorporate in their policies, projects or other planning documents to meet current state transportation planning requirements regarding automated, connected, electric and shared-use vehicles.							
2020-2021								
2011-2013		supported the KDOT on development of a per	rformance-based, sce put from outreach ef	iatives including emerging technologies, economic impact of propose enario-driven, federally-compliant 2045 LRTP that addresses the Kans forts. The final plan establishes an updated transportation vision for nizational structure.	as Joint Legislative Transportation			



16. Staff E	Experience				
Firm empl	oyed by:	NTB			
Name	[2]Kate Prej	ean, PE		Years of relevant experience with this employer	22
Title	Associate Vice	President, Project Manager		Years of relevant experience with other employer(s)	0
Degree(s)	/ Years / Specia	alization	BS / 2000 / Civil Eng	gineering	
Active reg	istration numbe	er / state / expiration date	#35036 / Louisiana	/ 3-31-2024; #19264 / Mississippi / 12-31-2022; #63000 / Florida / 02	-28-2023
Year regis	tered	2009 (LA, MS); 2005 (FL)		Discipline	Civil Engineering
Contract r	ole(s) / brief de	scription of responsibilities	Design Lead Minimum Personn	el Requirement #2	
2000, she h	nas been responsi			sportation group. In this role, she serves as a responsible memb studies including National Environmental Policy Act (NEPA) proce	
Experience (mm/yy-m				ntract; i.e., "designed drainage", "designed girders", er the time specified in the applicable MPR(s).	
10/10-07/16			pment for CDCs, cos	ram, New Orleans, Louisiana Project engineer for this \$120 m t estimates and financial tracking during pre-construction ar worked with the LaDOTD, FHWA and other stakeholders as the pro-	
05/17-06/21				ve, MLK Boulevard, Morrison Road I and II, Orleans Parish Ref struction projects and was responsible for the development of pr	
07/19-Ongo	Director of preconstruction for the \$1.2-billion program of projects that was separated into a list of capacity and enhancement projects. HNTB is responsible for \$800 million in capacity infrastructure projects on 40 roadways throughout the parish of East Baton Rouge. As director of preconstruction, Kate is responsible for ensuring delivery of the projects from conceptual development, selection of design consultants, completion of design study and final design plans, permitting, cost estimating, ROW acquisition, budget tracking, quality assurance and control, coordination with city staff and other stakeholders. The activities include services provided by design consultants and specialty service consultants. She also monitors and coordinates schedule activities, burn rates, invoice review and approvals among other project control activities.				
07/17-11/21		MDOT I-20 Eastbound over I-55, Jackson, Mississippi Engineer of record and technical roadway lead for the final design of the roadway approaches for a 15 span prestressed concrete beam bridge. Duties performed include project coordination with the client, coordinating with disciplines and leading the roadway technical decisions and roadway design of the project			
09/14-07/18		structure has 9.4 percent cross slope and a	necessary. The client low vertical clearance	ineer and technical roadway lead for the design project for the chas been told by other consultants that the bridge structure could and HNTB designed a way to widen the structure with multiple shallow uction services including RFI reviews, shop drawing reviews, and a	not be widened. The existing box girder w steel plate girders to carry the load and



16. Staff	16. Staff Experience							
Firm empl	loyed by:	INTB						
Name	Jonathan	Liby		Years of relevant experience with this employer	1			
Title	Senior Projec	t Manager - Program Management		Years of relevant experience with other employer(s)	22			
Degree(s)	/ Years / Spec	ialization	MBS / 2005 / Busine	nizational Leadership ess Administration ng and Management Administration				
Active reg	istration num	oer / state / expiration date	N/A					
Year regis	stered	N/A		Discipline	N/A			
Contract r	role(s) / brief (description of responsibilities	Asset Management	Performance Monitoring Lead				
delivering l	HNTB's 4for4 per nd brings years ce dates	formance of consistent delivery of quality wor of continuous advancement and a proven histo Experience and qualifications relevant t	k, on time, on budget ory of delivering resu o the proposed cor	echnical sub-consultants), schedule, technical requirements, contra t and to the client's satisfaction on every project. Jonathan is an ex lts and surpassing expectations ntract; i.e., "designed drainage", "designed girders", er the time specified in the applicable MPR(s).				
05/20-0ng	oing	Departments of Highway Safety and Motor V performed under this contract include the faindustry stakeholders to collaborate. The seplan to link all interstate weigh stations toge development of a geographic information	ehicles, Agriculture a acilitation of strategic ssion set the framew ther on a fiber optic system-based asse	management lead on this contract where HNTB works closely with nd Consumer Services and Revenue, as well as key industry partner plan visioning sessions which brought together various FDOT departs for future technology enhancements; the development and departwork; the piloting of mainline screening technologies to allow for the management platform. The platform included initial inspection acility repairs and the programming of projects into a 10-year cost for the contract of the service of the se	s, such as the FTA. Specific tasks rtments, state agencies and key oyment of a fiber optic inter-connection r increased efficiency of CVO and the and rating based on FDOT maintenance			
05/21-Ongo	TxDOT WIM/Vehicle Classification Program Support, Statewide, Texas Supported TxDOT WIM/vehicle classification deployment, assembling a life-cycle cost modeling tool capturing user-input to calculate acquisition, operations and maintenance costs over the defined life. Developed baseline asset useful-life and early-failure-rate expectations to conservatively model anticipated life-cycle costs. Simple graphic output helps the audience understand the full life-cycle cost details yet captures the overarching strategy. Through this work authorization, working group meetings were held with all 25 TxDOT districts to provide guidance and feedback on the goals, objectives and strategies. A GIS-based tool was developed to support the identification and prioritization of elements for deployment for input by the District offices. Partnership meetings were held with other public agency stakeholders to collaborate and expand the effectiveness of the system. A 10-year plan was developed focused on expansion, maintenance, collaboration, data use and future application through specific implementable actions, including necessary policy and contracting modifications.							
2019-2020		managed an asset budget of \$100M+ managi reduction and storage initiatives through im better size fleet needs based on changing cy	ng two thirds of the r proved utilization and cle-times and other k	ctor of fleet management who focused on the safety, continuous in ailcars on the CSX railroad. Contributions included savings of \$4 mid d speed, operated with over 20% fewer cars while improving servic key metrics to shape the fleet in real-time, adjusting to customer be the private-railcar owners evaluating cycle-times and business needs	llion in car-hire costs through strategic e reliability. Developed a data-model to havior changes and operating conditions.			



16. Staff E	16. Staff Experience						
Firm empl	oyed by:	NTB					
Name	Derek Barrs			Years of relevant experience with this employer	2		
Title	Senior Program	Manager		Years of relevant experience with other employer(s)	28		
Degree(s)	/ Years / Specia	lization	BS / 2012 / Public Ac AS / 1997 / Criminal				
Active reg	istration numbe	r / state / expiration date	N/A				
Year regis	tered	N/A		Discipline	N/A		
Contract r	ole(s) / brief de	scription of responsibilities	Policy Lead; Enforce	ement Manuals; State Enforcement Plans; Content Development; Partner	ship Groups		
aspects and	d led the Commer ence allows him to e dates	cial Vehicle Safety Alliance Enforcement (CVSA b build and maintain relationships with citizens Experience and qualifications relevant t	and Industry Moder s, law enforcement, er o the proposed cor	ergency management operations. Derek has worked directly with communication Committee, where he was involved with the impacts associated mergency management, government officials and personnel. **Intract; i.e., "designed drainage", "designed girders", er the time specified in the applicable MPR(s).	ercial vehicle safety and mobility d with technologies such as CAV.		
01/20-0ngo		FDOT MCSAW Program Support, Tallahass departments of Highway Safety and Motor Voperformed under this contract include the fastakeholders to collaborate. The session set to link all interstate weigh stations together development of a geographic information sy	ee, Florida Senio ehicles, Agriculture an icilitation of strategi the framework for fur on a fiber optic netwo stem-based asset ma	r program manager on this contract where HNTB works closely with other consumer Services and Revenue, as well as key industry partners, succeptan visioning sessions which brought together FDOT departments, ture technology enhancements; the development and deployment of a stork; the piloting of mainline screening technologies to allow for increasing magement platform. The platform included initial inspection and rating epairs and the programming of projects into a 10-year cost feasible pla	ich as the FTA. Specific tasks state agencies and key industry fiber optic inter-connection plan ed efficiency of CVO and the based on FDOT maintenance rating		
01/20-02/22 TxDOT WIM/Vehicle Classification Program calculate acquisition, operations and mainter model anticipated life-cycle costs. Simple gram authorization, working group meetings were developed to support the identification and pagency stakeholders to collaborate and expansion		nance costs over the aphic output helps th held with 25 TxDOT d prioritization of elemen and the effectiveness	Ie, Texas Supported deployment, assembling a life-cycle cost mode defined life. Developed baseline asset useful-life and early-failure rate of eaudience understand the life-cycle cost details yet captures the overalistricts to provide guidance and feedback on the goals, objectives and sents for deployment for input by the District offices. Partnership meeting of the system. A 10-year plan was developed focused on expansion, macluding necessary policy and contracting modifications.	expectations to conservatively arching strategy. Through this work strategies. A GIS-based tool was ags were held with other public			
07/11-01/20		managed and directed the overall operations. Managed federal fimplementation of CVE programs, provided r such as natural disasters, security functions management, governmental officials and per	ions of the office of unds from the Motor ecommendations and criminal task force of cronnel. Assisted and	cve, to include overall commercial vehicle training and post-crash inventorial Cve, to include overall commercial vehicle training and post-crash inventorial Safety Assistance grant from the Federal Motor Carrier Safety Advantage on operational issues within the FHP/FLHSMV. Served as statementations, etc. Maintained working relationships with law enforcement, analyzed proposed legislation. Ensured compliance to departmental poers, trucking industry and other similar disciplines related to commercial	stigations. Managed and directed dministration. Coordinated aff commander for operations criminal justice, emergency slicies, procedures and accreditation		



16. Staff	Experience					
Firm emp	ployed by:	NTB				
Name	Charles "C	harlie" Farnham, PE		Years of relevant experience with this employer	7	
Title	Senior Program	m Manager - ITS		Years of relevant experience with other employer(s)	26	
Degree(s	s) / Years / Speci	ialization	BS / 1989 / Civil Eng AAS / 1984 / Welding AS / 1982 / Agricultu	g		
Active re	gistration numb	er / state / expiration date	#28096 / Louisiana	/ 9-30-2022		
Year regi	istered	1988		Discipline	Electrical Engineering	
Contract	role(s) / brief de	escription of responsibilities	ITS/Technology Lea	d		
extensive		acets of ITS planning, development, design, cor		nanager for TxDOT's Traffic Operations Division and senior ITS project n enance for small and large systems. He represented TxDOT on national		
Experien (mm/yy-	ce dates mm/yy)			ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).		
11/19-Ongc	oing	process asset problem tickets from creation	ent System (IAMS) to to resolution. He is re	be used to track GDOT's ITS assets, manage maintenance activities, tra esponsible for performing technical reviews of vendor developed docu	mentation related to the planning,	
07/19-0ng	oing	deployment, testing and training of the IAMS software. He is an active participant in project meetings and discussions related to the development of GDOT's IAMS. GDOT Advanced Transportation Management System (ATMS) Development and Deployment, Statewide, Georgia Providing technical oversight on tasks related to the development and deployment of the Georgia DOT's Next Generation ATMS. He is responsible for performing technical reviews of vendor developed documentation related to the development of the Georgia DOT's Next Generation ATMS. He is performing technical reviews of the requirements solution documents and planning documents required as part of the development and deployment of the ATMS. He is an active participant in project meetings and discussions related to the development of GDOT's new ATMS.				
11/15-04/17	7	Commercial Vehicle Information Systems and Networks (CVISN), Austin, Texas Project manager for the planning and development of the Texas CVISN program. He led the development of the Texas Commercial Vehicle Information Exchange Window (TxCVIEW) system, which connects to various state and federal systems to exchange CVO information in a seamless and secure method among these agencies.				
08/17-0ng	oing	development of the Concept of Operations for input and needs of various internal and exte	or the Georgia DOT Sta Irnal stakeholders The I and Rural Traffic Sign	atewide Signal program. Following the system's engineering process, hese tasks involved working closely with the stakeholders of GDOT's Methal Operations (RTSO)). His work included preparing for and conducting	ro and rural signal system programs	



16 Staff E	16. Staff Experience							
	,							
Firm emplo	Firm employed by: HNTB							
Name	Jessica Dea	nn, PE		Years of relevant experience with this employer	4			
Title	Planning Depar	tment Manager		Years of relevant experience with other employer(s)	15			
Degree(s)	/ Years / Specia	alization	BS / 2006 / Civil Eng	gineering				
Active regi	istration numbe	er / state / expiration date	#72975 / Florida / 0)2-28-2023				
Year regist	tered	2011		Discipline	Civil Engineering			
Contract re	ole(s) / brief de	escription of responsibilities	Feasibility Studies;	Master Plan/Schedule/Cost				
as a contrac	ct and project ma	anager in numerous projects that required the	management of mult	field. She has extensive experience as a contract, project manager and i-disciplinary and multi-office project teams, contracting, scoping, proje 6, Florida's Turnpike Enterprise (FTE) and SunRail.				
Experience (mm/yy-m				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).				
03/20-0ngo	bing	FDOT SR Expressway Extension, Orlando, budget management and public involvement 441 to SR 434. These alternatives close a region of the second statement and public involvement and pub	ent support for ident	roject manager responsible for client coordination support, team coo ifying viable alternatives for the addition of elevated toll lanes down the mited east/west connectivity between SR 429 and I-4 in Central Florida.				
03/19-04/20)		ality control reviews	ect planner/engineer responsible for project development and enviror s. The project involves identify viable alternatives for the addition of toll ic involvement support and quality control reviews.				
11/17-09/19		consultant teams for two continuing project	development and env	rvices, Ocoee, Florida Senior project manager and contract manager of contracts. These contracts involve providing misce ibility studies, PD&E document reviews, public involvement suppor	ellaneous support to FTE such as			
11/17-09/18			sibility study. This p	tral Florida Project manager responsible as extension of Departmer roject involved conducting a pre-project development and environment at to 1-95 as directed under a federal earmark.				
02/18-06/19)	FDOT/FTE Coastal Connector Alternative Corridor Evaluation, Citrus and Marion Counties, Florida Assistant project manager responsible as extension of Department staff to manage the consultant and coordinate the alternative corridor evaluation study for the assigned project manager, as needed. This project involved conducting an Alternative Corridor Evaluation (ACE), high-level planning study, for a potential new corridor in Citrus and Marion Counties.						
03/18-02/19		FDOT/FTE US 27 Feasibility Study, Polk County, Florida Project manager responsible as extension of Department staff to manage the continuing services consultant and coordinate the feasibility study. This project involved assessing the feasibility to add toll lanes on US 27 from SR 60 to US 192.						
06/06-11/17		FDOT General Planning Contract, Deland, tasks assigned by FDOT. The contract include support, and other assignments as requested.	ed task work orders s	tation planner/engineer responsible for assisting the contract/project n uch as writing TIGER and FASTLANE grants, organizing and holding publi				



16. Staff I	16. Staff Experience							
Firm empl	Firm employed by: HNTB							
Name	Dharmin Ku	kadia, PE		Years of relevant experience with this employer	1			
Title	Project Engine	er		Years of relevant experience with other employer(s)	4			
Degree(s)	/ Years / Speci	alization	MS / 2018 / Civil Eng BS / 2016 / Civil Eng					
Active reg	jistration numbe	er / state / expiration date	#92514 / Florida / 0	2-28-2023				
Year regis	tered	2021		Discipline	Professional Engineer			
Contract r	role(s) / brief de	escription of responsibilities	Feasibility Studies; I	Needs Assessments				
prepared powerking clo	resentations, sch osely with project geographic inforn	eduled and coordinated data collection analysi managers to perform research development c nation systems (GIS), Vissim, Synchro, HCS, Sidr	is and safety studies a alculation designs and a, MicroStation and G	performed analytical tasks, traffic impact analysis, traffic calming and for FDOT Districts 4 and 6, the City of Hollywood, Pembroke Pines and Pold delivery to support the project execution using current drawings, tecloogle Earth Pro. atract; i.e., "designed drainage", "designed girders",	ort St. Lucie. His expertise includes			
(mm/yy-m				er the time specified in the applicable MPR(s).				
02/22-Ongo	oing	traffic analysis for the proposed two way st	treet conversion of Ty both sides from N. 21	reet Two-Way Conversion Traffic Analysis, Hollywood, Florida The Vier Street, located in the City of Hollywood, Florida. Tyler Street current list Avenue to Young Circle. The project will convert this segment to a twible for performing SimTraffic simulation.	ly operates as a one way street with			
02/22-Ongo	oing	Southwest 65th place, Southwest 75th Terrac	ce and Southwest 84t	Traffic analyst who conducted a traffic calming study to reduce or elimi h Street roadway segments. The evaluation includes field observation, p tment of Transportation (FDOT) Signal Four Analytics and project repor	peak hour traffic counts and			
02/22-Ongo	D2/22-Ongoing FDOT District 4 GEC, Palmetto Bay, Florida Traffic analyst who conducted various studies to include the conversion of seven traffic signalized intersections on Old Cutler Road from Southwest 184th Street to Southwest 136th Street into roundabouts. Also, converting existing circles at Southwest 168th Street at Southwest 87th Avenue and Southwest 82nd Avenue from a single lane to possibly two lanes roundabouts and second eastbound lane. This project includes a collection of traffic data, synchro analysis, the study of alternate options, recommendations and conceptual designs as well as currently working on two traffic calming studies to determine the motorist's possibilities not to cut through the neighborhoods.							
02/22-0ngc	City of Miami Beach 17th Street Protected Bike Lanes and Busway, Miami Beach, Florida Traffic analyst responsible for conducting traffic simulations on this feasibility study for 17th Street from West Avenue to Beachwalk in Miami Beach, consistent with the City's Transportation Master Plan.							
02/22-Ongo	oing	Hollywood CRA Young Circle Re-Design Pr City of Hollywood CRA to provide traffic anal bicycle activity and safety, and make the You	ysis for phase II. This	project aims to re-design Young Circle to improve traffic congestion, tra				



16. Staff I	16. Staff Experience							
	Firm employed by: HNTB							
Name	Jeremy Upo	hurch		Years of relevant experience with this employer	2			
Title	Planner			Years of relevant experience with other employer(s)	7			
Degree(s)	/ Years / Specia	alization	BBA / 2013 / Transpo	ortation and Logistics				
Active reg	istration numbe	er / state / expiration date	N/A					
Year regis	tered	N/A		Discipline	N/A			
Contract r	ole(s) / brief de	scription of responsibilities	Program Planning; I	Project Prioritization				
				supporting the systems planning, logistics, supply chain and the transpo to direct tasks, finalize production of environmental documents, transp				
Experienc (mm/yy-n				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).				
02/20-0ngd	oing	contract supported the evaluation and imple well as incorporation of private facilities into being developed to provide immediately achi study to implement a pilot project for the us verified for compliance. This contract also up of the Review Board. HNTB provided website TIM Strategic Plan and CVO business plan wer	mentation of truck p the TPAS network. Ir evable expansion. Je e of technology to lir dated the citation trupdates, including the developed under the	TB is providing support services for these two critical areas of the State arking location expansions throughout the state, including leveraging or inovative approaches, including parking management strategies to max aremy was part of the team who provided management oversight in the last specific vehicles to oversize/overweight permits to streamline the operacking tool, a critical application in the management of protested comme advancement of features on the Road Ranger Service Patrol to enhance the program. The TIM Strategic Plan included focus on increased safety the safety and mobility though partnership and technology deployments.	ther publicly owned locations as imize available infrastructure are development of a feasibility erations once vehicles have been lercial vehicle citations, in support the user support and feedback. The			
03/20-0ng	oing	TxDOT WIM and Vehicle Classification Strategic Plan, Statewide, Texas HNTB is developing a strategic plan for the statewide traffic data collection system. Through this work authorization, Jeremy led the working group meetings with representation from all 25 TxDOT districts to provide guidance and feedback on the goals, objectives and strategies for the plan. A GIS-based tool was developed to support the identification and prioritization of elements for deployment for input by the District offices. Partnership meetings were held with other public agency stakeholders to collaborate and expand the effectiveness of the system. A 10-year plan was developed focused on expansion, maintenance, collaboration, data use and future application through specific implementable actions, including necessary policy and contracting modifications.						
06/19-02/20	0	of plans, programs and needs. Served as th	lassification, growth ne primary contact fo es such as SIS first an	g supervisor who provided technical assistance to the systems planning management, RCI, RJT and travel demand modeling. Directed staff in t or D5 in coordinating SIS with other governmental organizations and the nd second five work program, cost feasible and unfunded needs plans. A	the analysis and evaluation private sector in addition to			



16. Staff	16. Staff Experience								
Firm empl	Firm employed by: CAMBRIDGE SYSTEMATICS								
Name	Adam Danc	zyk, PE, PTOE		Years of relevant experience with this employer	3				
Title	Senior Associa	te		Years of relevant experience with other employer(s)	13				
Degree(s)	/ Years / Speci	alization	MS / 2008 / Civil End BS / 2006 / Civil End						
Active reg	gistration numbe	er / state / expiration date	#6201067487 / Mich #079443 / Pennsylv	PE: #138965 / Texas / 06-30-2022; #062065013 / Illinios / 11-30-2023; #11700506 / Indiana / 07-31-2023; #6201067487 / Michigan /06-19-2023; #2017032004 / Missouri / 12-31-2023; #027981 / Nevada / 12-31-2022; #079443 / Pennsylvania / 09-30-2023 PTOE: #3375 / National / N/A					
Year regis	stered	2020 (TX); 2012 (IL); 2017 (IN); 2017 (MI); 2017 (2012 (PA)	(MO); 2020 (NV);	Discipline	Civil Engineer				
Contract i	role(s) / brief de	escription of responsibilities	Program Planning						
multi-millio readiness a technology	on dollar ITS progr assessments to do planning effort i	rams that range in various tiers of readiness ar etailed deployments of autonomous vehicle tra	nd innovation. With Ca Insit shuttles in a C-V2	ic operations, ITS, CAV and emerging technologies. He has planned, desi ambridge Systematics, he is involved in several CAV planning and deploy 2X (cellular-vehicle-to-everything) communications environment. He jus eler information, and other services to truckers. His professional engine	ment projects, which span from t completed an extensive freight				
Experience (mm/yy-n				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).					
11/19-Ongoi	ing	TxDOT WIM and Vehicle Classification Strategic Plan, Statewide, Texas Examined strategies to inform weigh-in-motion and vehicle classification sites to help strategic planning in Texas. This strategic plan aims to deploy WIM/VC sites across the state of Texas to maximize the data collection capabilities of the program, which is used to help forecast pavement replacement and other asset preservation programs based on the traffic volumes and percentages of trucks. Adam is assisting with the development of screening criteria for identifying needs, as well as providing technical guidance on the feasibility of implementing WIM/VC sites at certain locations relative							
06/19-01/21	to other operational improvements, which could include enforcement and real-time operations.								



16. Staff	16. Staff Experience							
Firm emp	Firm employed by: HNTB							
Name	Gala Rosbo	rough, CCP		Years of relevant experience with this employer	16			
Title	Senior Project	Controls		Years of relevant experience with other employer(s)	17			
Degree(s)) / Years / Speci	alization	BIE / 1989 / Industri	al Engineering				
Active req	gistration numbe	er / state / expiration date	Certified Cost Profe	ssional / National				
Year regis	stered	1994		Discipline	N/A			
Contract	role(s) / brief de	escription of responsibilities	Master Plan/Schedu	ıle/Cost				
all phases manageme software s	of projects includent, integrated schoolutions for earne	ing project startup for design or construction a neduling, cost control, construction claims and d value management.	and ongoing projects earned value manag	ral major programs. As a senior project control manager, Gala provides as needed. This multi-faceted position requires familiarity with all indusement. Gala has 29 years' experience working with Primavera software and the second seco	stry process standards for project			
Experience (mm/yy-r				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).				
03/17-12/21		consists of more than \$3-billion system of ex	press lanes that are	Next), Hillsborough, Polk, and Pinellas Counties, Florida Project being planned for the Tampa Bay area. Activities included creating and phases of projects from NEPA through Construction.	t scheduler for this project which maintaining a Program Master			
05/16-Ongo	oing	manufacturer requirements. Assisted in upd	nvironmental departr ating projectsuite e	agement scheduler who updated and maintained all PD&E production schent and program management, assisted in revising templates to follow interprise edition system status notes for all design and project deproject development and environmental production meetings.	new original equipment			
06/12-12/14	1	district Project Managers and Program Mana	gement, created new	nt scheduler who updated and maintained over 700 schedules throu templates with standardized work breakdown structure, linked open br emented updated scheduling procedures to streamline the processes alo	oadcaster software, standard A/E			
01/08-06/1	0	program of improvements, including roadwa creating the program master schedule an cost and schedule tracking and earned value integrated with Primavera P6, managed the consultants, surveyors, lab test vendors, equ	y widening, intersect Id implementation p reporting system for contract budgets and iipment vendors and	nagement Consultant (PMC) Program, Tampa, Florida Project colions, new signals and ATMS during planning, design and construction pholan in Primavera P6. Tasked with creating and updating monthly a resounce 160 projects, working with Technology Group in developing the Budget captured all the actual costs from all program entities, including GEC, gontractors. Maintained county Primavera schedules to feed into their faystem which included modules for project status and reports and the contractors.	ases. Responsibilities included urce loaded Primavera integrated Control Manager database which eneral/civil designers, geotechnical unding and budgeting process.			



16. Staff Experience								
Firm emp	Firm employed by: HNTB							
Name	Pradeep Ra	o, PE		Years of relevant experience with this employer	15			
Title	Senior ITS Eng	neer		Years of relevant experience with other employer(s)	3			
Degree(s) / Years / Speci	alization	MS / 2006 / Transpo BS / 2002 / Civil Eng Graduate / 1998 / Ci	ortation Engineering Jineering vil Engineering				
Active re	gistration numb	er / state / expiration date	#57448 / Arizona / (06-30-2023				
Year regi	stered	2014		Discipline	Civil Engineering			
Contract	role(s) / brief de	escription of responsibilities	Master Plan/Schedu	ıle/Cost; Weigh in Motion; Ancillary Devices				
(CCTV) and and Synch	d dynamic messag ro and has workin ce dates	e signs (DMS) systems along with Sensys in-gro g knowledge of Vissim, Guidesign, Inroads and Experience and qualifications relevant t	ound sensors and vide HCS software applica to the proposed cor	ntract; i.e., ''designed drainage'', ''designed girders'',				
• • •	"designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). PDOT Chief Engineer Support Services, Statewide, Florida ITS designer for the Palatka VWIM systems, included several ITS cameras and weigh detection system, fiber and cellular communication system. Developed VWIM device and communication technical special provisions for the project. The Central Office will be deploying a statewide project called the TPAS. The project will monitor the truck parking spaces at both the rest areas and weigh stations. This information will be displayed on a numerical display sign boards preceding the facilities. The intent of the project is to direct the truckers to another facility downstream if the current rest area is full. Pradeep is an ITS project engineer developing a design-build request for proposal (RFP) for the deployment of this system. A set of 50% plans, specifications, and estimates will be part of the RFP. Coordination with FDOT's maintenance agencies for power and communications is ongoing. Pradeep's responsibilities include field work with each of the FDOT District representatives to investigate the placement of the TPAS signs as well as its connection to the local ITS cabinets. He has alsoperformed research and deployment of a new parking monitoring technology into the FDOT ITS system. The project included deployment of an established FDOT technology in a new and innovative application.							
09/17-Ong	polication. FDOT MCSAW Program Support, Tallahassee, Florida and standards; and telecommunications and networking. This contract works closely with other state agencies including the departments of Highway Safety and Motor Vehicles, Agriculture and Consumer Services and Revenue, as well as key industry partners such as the FTA. Specific tasks include facilitation of a strategic plan visioning session which brought together various FDOT departments, state agencies and industry stakeholders to collaborate. The session set the framework for future technology enhancements; the development and deployment of a fiber optic inter-connection plan to link all interstate weigh stations on a fiber optic network; the piloting of mainline screening technologies to allow for increased efficiency of CVO; and the development of a GIS-based asset management platform. The platform included initial inspection and rating based on FDOT maintenance rating factors and led to the prioritization of activities for scale facility repairs and the programming of projects into a 10-year cost feasible plan and five-year work program. In addition, this contract is leading further development of the database system which will provide increased tracking capabilities of freight movement, to ultimately include size, weight, bill of lading and permit tracking.							



16. Staff	Experience				
Firm emp	loyed by: CAM	BRIDGE SYSTEMATICS			
Name	Gui Leao			Years of relevant experience with this employer	2
Title	Transportation	n Analyst		Years of relevant experience with other employer(s)	0
Degree(s)) / Years / Spec	ialization	BA / 2019 / Urban St	tudies	
Active red	gistration numb	er / state / expiration date	N/A		
Year regis	stered	N/A		Discipline	N/A
Contract	role(s) / brief d	escription of responsibilities	Master Plan/Schedu	ıle/Cost	
as the freic currently i	ght network tech include the develo ce dates	nology and operations plan, WIM/vehicle classif opment of the TDOT's TSM&O program plan and Experience and qualifications relevant t	ication strategic plan Utah's TSM&O busines to the proposed cor	ntract; i.e., ''designed drainage'', ''designed girders'',	
(mm/yy-r		· · · · · · · · · · · · · · · · · · ·		er the time specified in the applicable MPR(s).	
11/19-0ngo	ing	strategically place WIM/vehicle classification	across key freight co	de, Texas Gui supported the TxDOT WIM and vehicle classification strorridors in Texas to maximize data collection capabilities. Gui develope vity) to inform the locations of future WIM/VC sites.	ategic plan development, which will discount the discount to t
06/21-Ong	needs analysis (including asset conditions and energy sector activity) to inform the locations of future WIM/VC sites. TXDOT Texas Delivers 2050 Texas Freight Mobility Plan				
TDOT Tennessee Innovative Technology Deployment (ITD), Statewide, Tennessee Cambridge Systematics currently supports the state of Tennessee's ITD program, which focuses on improving safety and productivity of motor carriers, improving efficiency and effectiveness of commercial vehicle safety programs, and expanding commercial vehicle data sharing between states and FMCSA. Within the state, this involves several state agencies, aimed at expanding the geographic scope of commercial vehicle enforcement efforts. CS helps ensure that the program is in compliance with Federal standards and architectures, and provides routine program management and system architecture services. Gui has provided support to TN by monitoring and processing daily data logs that interface between the state's data repository (CVIEW) and the Federal SAFER system, as well as attending monthly Federal ITD meetings.					
06/21-0ng	oing	on the Texas Highway Freight Network. Camb bridge vertical clearance, acceleration/decel	oridge Systematics as Ieration lanes, and ot	e, Texas TxDOT is examining application of enhanced design criteria tasisted a team that led the development of potential design criteria enhanced at the development of potential design criteria enhanced by the TxDOT Design Division. Gui was an analat could be improved, in relation to the design criteria identified.	ancements-including enhanced



16. Staff E	Experience					
Firm empl	oyed by:	NTB				
Name	Joseph "Jo	e'' Blasi, PE, PTOE		Years of relevant experience with this employer	17	
Title	Transportation	Planning Engineer, Project Manager		Years of relevant experience with other employer(s)	1	
Degree(s)	/ Years / Specia	alization	MS / 2004 / Civil (Tr BS / 2004 / Civil End	ransportation) Engineering gineering		
Active reg	istration numbe	er / state / expiration date		/ 03-31-2023; #129234 / Texas / 12-31-2022; #17285 / Arkansas / 12-31-2 souri / 12-31-2023; #P22765 / Iowa / 12-31-2022		
Year regis	tered	2020 (LA); 2018 (TX); 2016 (AR); 2009 (M0); 20	015 (IA)	Discipline		
Contract r	ole(s) / brief de	scription of responsibilities	Traffic LADOTD Traffic En	ngineering Process and Report Training Course		
mesoscopic software. H	c simulation mode le has also comple M) as well as desi e dates	eling and travel demand modeling using the lated more than a dozen Interchange Access Jugn-build and program management projects. Experience and qualifications relevant t	test versions of Trans ustification Requests to the proposed cor	re, having presented at seven Vissim user group conferences. Joe's q Modeler, Synchro, SimTraffic, HCS, Sidra, TransCAD, VISUM, Vissim and in 10 years. He has experience with transit studies, signal timing, mar intract; i.e., "designed drainage", "designed girders", er the time specified in the applicable MPR(s).	d Dynameq, as well as ESRI GIS	
05/19-Ongo		LADOTD I-10 Calcasieu River Bridge Envir a corridor study of approximately nine miles	ronmental Impact St	tatement (EIS), Lake Charles, Louisiana Technical advisor for the complex issues in an urban setting such as the navigable Calcasieu Riccent to the corridor. A Vissim model was used to analyze various for the corridor.	ver, numerous petro-chemical plants, a	
2016-2019		Master Plan task of the GEC. The required selland use planning, corridor preservation, pla	rvices included nume anning, traffic dema	ent and Implementation, Ascension Parish, Louisiana rous facets of transportation planning, development and implementa ind modeling, traffic operations analysis, feasibility evaluation, d drainage structures, financing management, coordination, and liais	environmental processes and	
07/17-09/19						
12/19-05/20)	is performed both internally by MoDOT staff team (including the Client), including more the	and by external parti han ten meetings to c	Missouri Project manager who led the effort to develop TIA guiners. Coordinated all efforts among the Consultant team (many locat discuss expectations for each of the sections in the guidance, and latefic modeling sections of the guidance and interdisciplinary reviews	ed in North Carolina) and the project er to review and discuss comments on	



16. Staff Experience										
Firm employed by: ARCADIS										
Name	Akhil Chauf	nan, PE, PTOE, PTP, PMP		Years of relevant experience with this employer	14					
Title	Principal Engin	eer		Years of relevant experience with other employer(s)	6					
Degree(s) / Years / Specialization			MS / 2003 / Transportation Engineering BS / 2001 / Civil Engineering							
Active registration number / state / expiration date			#033703 / LA / 09/2022; PT0E #2544 / USA / 11/2023 PTP #246 / USA / 12/2024; PMP #1444676 / PA / 08/2023							
Year registered		2008		Discipline	Civil Engineering					
Contract role(s) / brief description of responsibilities			Traffic							
Akhil is a principal traffic engineer with 20 years of applied research and industry experience in the fields of traffic engineering, traffic modeling and simulation, transportation planning, demand modeling/forecasting, intersection/corridor analysis, safety studies, and access management. Akhil has successfully led, managed, and mentored numerous projects and personnel related to transportation modeling, simulation, and planning for public agency clients located across the nation including several state Departments of Transportation. He is proficient in the use of many macro-, meso-, and microscopic traffic simulation software programs such as HCS, Vistro, Synchro, SIDRA, Vissim, MITSIM, Dynameq, DynaMIT, TransCAD, Visum, and OREMS. Experience dates Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders",										
(mm/yy-mm/yy)		"designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).								
04/13-10/20)	LADOTD US 11 Railroad Bridge Replacement and Corridor Improvements Environmental Assessment (EA), St. Tammany Parish, Louisiana Principal engineer responsible for crash analysis, operating speed tabulations, intersection and corridor analysis, line and grade , and public outreach for the proposed widening of US 11 between US 190 (Gause Boulevard) and I-12 in Slidell. Proposed improvements include the replacement of a bridge crossing the Norfolk Southern Railroad. Critically, this project includes analysis of several innovative alternatives for the proposed corridor, including "superstreets" and J-turn concepts.								
07/12-11/14		LADOTD Chef Menteur Bridge and Approaches EA, Orleans Parish, Louisiana Principal traffic engineer responsible for the high-priority bridge replacement EA and Line and Grade Study, responsible for coordinating traffic impact study. Traffic impact study coordination included reviewing available data with DOTD traffic engineer to identify gaps and propose additional data needs, investigating planned transportation improvement projects and traffic generators with DOTD and New Orleans RPC, reviewing design hour volumes (DHVs), average daily traffic (ADTs), and peak hour, and 24-hour truck percentages, and reviewing intersection and road segment capacity analyses.								
11/20-Ongo	ing	LADOTD I-10 CMAR, East Baton Rouge Parish, Louisiana Principal engineer responsible for technical advisory and QAQC of all traffic engineering tasks including development of permanent signing plans, Interchange Modification Reports, and Transportation Management Plans for the widening of I-10 from LA 415 to Essen Lane and improvements to interchanges along this segment. One critical component of the project is maintaining traffic during the construction of new bridge structures. Multiple scenarios are being evaluated using a calibrated mesoscopic model to determine the impacts during construction and mitigations that will be necessary to minimize delay.								
08/18-12/19	LADOTD I-10 Widening Mesoscopic Model and Transportation Management Plan, East Baton Rouge Parish, Louisiana Principal engineer responsible for supervising development of mesoscopic traffic model used for this project. The object of the study was to develop an existing conditions model. Responsibilities includ defining study area, assessing data needs, developing data collection plan, preparing calibration documentation, and preparing model documentation.									



16. Staff Experience									
Firm employed by: HNTB									
Name	Chad Thom	pson, PE		Years of relevant experience with this employer	1				
Title	Project Manage	er - Engineering		Years of relevant experience with other employer(s)	22				
Degree(s) / Years / Specialization			MS / 2001 / Civil Engineering BS / 1998 / Civil Engineering						
Active registration number / state / expiration date			#92470 / Florida / 02-28-2023; #0402040667 / Virginia / 06-30-2023						
Year regis	stered	2021 (FL); 2005 (VA)		Discipline	Civil Engineering				
Contract role(s) / brief description of responsibilities			Grant/Funding Opportunities						
thoroughly practices, a	access management, construction, operations and emergency relief. He is a national expert on the Federal-Aid Highway Program (FAHP) and its associated regulations and requirements and has been thoroughly involved with design and construction advancements within the Florida over the last decade. During this time, he has also developed considerable knowledge and experience in procurement practices, alternative contracting and innovative financing. Experience dates (mm/yy-mm/yy) Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).								
01/22-0ngc	FDOT CVO/TIM Program Consultant, Statewide, Florida Consultant project manager overseeing statewide activities to increase the number of available truck parking spaces along Florida's interstate system. This project includes four key approaches: maximizing use of available parking at theweigh stations, engaging in opportunities to include private stakeholders in providing additional parking, quick and long-term expansion of the rest areas and innovative uses of existing ROW to provide additional parking. Through this effort, it has been identified that amenities and signage for the weigh stations can enhance the use of existing parking. The team is developing policy memorandums and initial processes for integration of private parking into the TPAS as well as re-striping to provide additional parallel parking and expanded pavement concept plans for all rest areas that did not have planned improvement projects. Innovative concepts, including low-impact previous pavement, were developed to provide additional capacity within the limited access ROW, including interchange in-field as well as median locations accessible through local roads.								
02/22-Ongo	FDOT Office of Policy Planning, Statewide National Electric Vehicle Infrastructure (NEVI) Plan Development, Statewide, Florida Consultant project manager who is overseeing the development of the plan for expanded electric vehicle charging infrastructure in response to the Infrastructure Investment and Jobs Act (IIJA). This includes coordination with multiple stakeholders to meet the equity and rural requirements of the grant. Chad is also overseeing the analysis of existing conditions and deployment that outlines how FDOT will invest the nearly \$200 million in available funding. He also coordinates activities with the Alternative Fuels Corridor nomination.								
04/08-10/2	1	FHWA and FDOT Multiple FAHP Grants Management, Statewide, Florida Program operations team leader and acting director who supervised a team of 12 engineers responsible for the stewardship and oversight of a \$2-billion annual FAHP within the State of Florida. Engaged in all aspects of project development including planning, environment, design, construction, contract administration and maintenance/operations. As part of the Florida Division management team, developed annual office work plan through risk management and program assessments.							
2008-2009	1	FDOT District 5, Multiple Federal-Aid High all aspects of environmental, design, finan			nin District 5 of the FDOT including				



16. Staff Experience							
Firm employed by: HNTB							
Name	Michael Del	Ment, APR		Years of relevant experience with this employer	16		
Title	Associate Vice	President, Government Relations Manager		Years of relevant experience with other employer(s)	25		
Degree(s) / Years / Speci	alization	BA / 1981 / Administ	ration of Justice			
Active re	gistration numb	er / state / expiration date	Accreditation in Pul	blic Relations / National			
Year regi	stered	1998		Discipline	Public Relations		
Contract	role(s) / brief de	escription of responsibilities	Grant/Funding Oppo	ortunities			
He has mo	ore than 30 years o		gagement, issues mai	y Metro Office. He is a public involvement lead for the office, which over nagement, strategic communication planning, media relations and gove ommunications practice.			
Experien (mm/yy-				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).			
05/21-07/2	21	secure federal funding for transforming the	Baton Rouge Scotland	Mobility Network, Baton Rouge, Louisiana Served as federal grar dville Parkway greenway system into a key seven-mile hub for the Bator way in ways that turn it into an intermodal, active transportation networ			
02/21-03/2	21	writing manager for this initiative to secure marginalization. The program's two projects personal mobility choices for accessing good	USDOT INFRA grant f - Airline Highway Nor d-paying jobs in the P	n Rouge Opportunity Access Program of Projects, Baton Rouge, Lo funding to fix barriers to racial equity and opportunity in an area suffer orth and Florida Boulevard – will provide local environmental justice popular project Area, adjacent opportunity zones and new nearby development. wardees, making it eligible for potential federal credit assistance for up to	ing from disinvestment and ulations with greatly improved This application resulted in the		
12/19-02/2	LADOTD LA 1, Phase 2, Leeville to Golden Meadow, Lafourche Parish, Louisiana Served as the grant writing manager for this initiative to secure USDOT INFRA grant funding to construct the remaining eight miles of elevated roadway to ensure uninterrupted access to Port Fourchon, America's premier oil production and distribution center. Approximately 20% of US domestic energy production relies on this corridor, which is increasingly threatened by severe weather events and rising sea levels. Tasks included stakeholder and agency coordination, securing numerous letters of support, development of the benefit-cost methodology and analysis and drafting of the application. This application received \$135 million, the largest award of the 2020 INFRA Grant program, approximately 15 percent of the program's funds.						
01/19-0ng	oing	the Kansas Statewide Autonomous Vehicle Vi of the project is to develop an autonomous v identifying pilot projects for the DOT to unde	ision Plan. The plan is rehicle vision for Kans rtake. The project wi	ementation Plans (Phases 1 & 2) Michael is serving as the policy to a intended to provide a vision blueprint on what state agencies need to least state agencies, and Phase 2 is to develop an autonomous vehicle stream of the Institute of Transportation Engineers, as well as awards from the	pe doing to prepare for CAV. Phase 1 rategic plan for KDOT that includes rerence. It has received the 2020		



16. Staff I	16. Staff Experience							
Firm empl	Firm employed by: CAMBRIDGE SYSTEMATICS							
Name	Paula Dowe	II, PhD		Years of relevant experience with this employer	9			
Title	Principal, Natio	nal Freight and Economics Practice Leader		Years of relevant experience with other employer(s)	14			
Degree(s)	/ Years / Specia	alization	PhD / 2000 / Econor MA / 1998 / Econom BBA / 1994 / Econon	ics				
Active reg	istration numbe	er / state / expiration date	N/A					
Year regis	tered	N/A		Discipline	N/A			
Contract r	ole(s) / brief de	scription of responsibilities	Grant/Funding Oppo	ortunities				
translating a post doct and in Miss	complex transpo orate research as issippi her entire	rtation planning and policy concepts and techr sociate for the Center of Business and Econom career.	nical analysis into too nic Research at the Ui	I currently leads Cambridge Systematics' national freight and economic ols and communication materials accessible to a broad audience of stakiniversity of Tennessee, Knoxville. She has worked with more than 35 sta	eholders. Previously, she served as			
Experience (mm/yy-m				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).				
06/21-0ngo	ing	which will strategically place WIM/vehicle cla	ssification across key	de, Texas Paula supported the TxDOT WIM and vehicle classificatio y freight corridors in Texas to maximize data collection capabilities. Camergy sector activity) to inform the locations of future WIM/VC sites.				
11/19-Ongoii	ng	Plan, rebranded to Texas Delivers 2050. Unlik supporting critical industry supply chains in role of a given modal link not just for suppor of ten critical supply chain areas from raw m	te traditional freight p Texas, given the disru ting commodity flow aterials to production	mbridge Systematics is leading the development of the federally-manda planning efforts, TxDOT aims to focus more closely on the role of the Texaptions that occurred in 2020 and beyond due to the COVID-19 pandemic volumes, but also the role that link plays for Texas-based supply chains in to warehousing/distribution to retail to recycling/reuse. Paula has bee model profiles, specifically the statewide pipeline modal profile.	cas Multimodal Freight Network in c. This study aims to understand the . This study examines the lifecycle			
06/19-01/21		Texas Freight Mobility Plan Implementation, Statewide, Texas Paula managed a five-year contract to update and implement the Texas Statewide Freight Mobility Plan. The first task was to develop a FAST Act-compliant State Freight Plan which has included conducting two rounds of stakeholder workshops, developing a GIS based						
06/19-01/21		freight analysis system for Texas, compiling a five-year financially constrained Freight investment Plan and a longer term Unconstrained Freight Investment Plan. MSDOT Mississippi Long-Range Plan Transportation Plan, Statewide, Mississippi Paula managed the update of the 2045 and 2040 MULTIPLAN, the State's LRTP. The 2040 plan was Mississippi's first performance-based plan and it included conducting visioning meetings with MDOT management and key business stakeholders, developing revenue forecasts, setting performance targets, conducting tradeoff analysis and estimating the economic tradeoffs of worsening state of repair arising from expected funding and improved state of repair from adequate funding to meet minimum performance targets. The economic analysis focused on the change in transportation costs arising from changing pavement conditions and congestion levels. The 2045 MULTIPLAN included all of the elements of the 2040 plan plus the development of the Transportation Asset management Plan (TAMP) and the State Rail Plan.						



16. Staff	16. Staff Experience							
	Firm employed by: HNTB							
Name	Lynn Malon	ey-Mujica, AICP		Years of relevant experience with this employer	4			
Title	Senior Planner	/Senior Environmental Scientist		Years of relevant experience with other employer(s)	30			
Degree(s)	/ Years / Speci	alization	MS / 2008 / Environ BS / 1976 / Liberal A					
Active reg	gistration numb	er / state / expiration date	American Institute	of Certified Planners / #20555 / National				
Year regis	stered	2006		Discipline	N/A			
Contract r	role(s) / brief de	escription of responsibilities	Environmental; Part	tnership Groups				
outstandin federal age involve exp Experienc	g thesis research encies. Her expert perience in transp ce dates	in the Department of Environmental Sciences tise in NEPA analyses and documentation is broportation and community planning. In 2019, she Experience and qualifications relevant t	at LSU. As a consultar adly interdisciplinary developed the first vi o the proposed cor	Commission. Her master's thesis, "Comprehensive Planning in Louisiana of the private sector for the last 20 years, she has worked for a wide of and includes public outreach and stakeholder engagement as required irtual public meeting for LADOTD, who won a Transportation Award for the intract; i.e., "designed drainage", "designed girders",	range of city, parish, state, and I for these projects. Recent projects			
(mm/yy-n		. ,		er the time specified in the applicable MPR(s).	() () () () () ()			
05/21-06/2	1	bike-ped and trails network. Responsible for		on Rouge, Louisiana Member of team preparing a RAISE grant for r I support, and stakeholder coordination .	ehabilitation and connection of a			
03/21-04/2	1		of federal funding, will bilities will include ov	ay INFRA Grant, Baton Rouge, Louisiana Senior planner/environm Il adhere to LADOTD NEPA requirements for a Programmatic Categorical versight of Complete Streets implementation through incorporation of a	Exclusion. In addition to			
06/18-Ongo	· · · · ·							
10/19-02/20	0	production relies on this corridor. This applic	er oil production and ation received \$135 n	Member of team that prepared an INFRA Grant application for fundir distribution center against severe weather event disruptions. About 20 nillion - the largest such award to date, and about 15 percent of 2020's I d letters of support from local, regional, and national stakeholder	percent of the U.S. domestic energy NFRA Grant funds. Responsible for			
09/19-11/19		LADOTD College Drive Flyover Ramp, Batc comments on a flyover ramp designed to imported to import the meeting materials, addressing comments	prove traffic flow with	nin the I-10/I-12 westbound interchange. Responsible for developing exhi				



16. Staff Experience							
Firm employed by:							
Name	Stehle Har	ris		Years of relevant experience with this employer	1		
Title	Environmenta	Scientist, Project Manager		Years of relevant experience with other employer(s)	18		
Degree(s)	/ Years / Spec	alization	BS / 1994 / Environr	nental Science			
Active reg	gistration numb	er / state / expiration date	N/A				
Year regis	stered	N/A		Discipline	N/A		
Contract i	role(s) / brief d	escription of responsibilities	Environmental				
permitting, been the p	, compliance, info roject manager o ate and local age ce dates	ormation technology, geographic information syn several large federal projects involving the Uncies on a variety of environmental programs a Experience and qualifications relevant t	ystems, and environm SACE Tulsa District, U and has excellent wor to the proposed cor	nd operations. He is experienced with projects involving site investigation mental operations such as hazardous waste management and pollution processes the Southeast United Strict, and various installations in the Southeast United String relationships with the federal, state, and local governments. **Intract; i.e., "designed drainage", "designed girders", er the time specified in the applicable MPR(s).	prevention. In addition, Stehle has		
05/21-Ongo	oing	Materials (ASTM) E1527-13 Standard Practice environmental databases and historical docu	of Environmental Site uments including map d environmental cond	onducted research in support of a Phase I ESA according to the Ame Assessment: Phase I ESA Process to satisfy the All-Appropriate Inquirie os, aerials, city directories, and data provided by the client to determine ditions. Conducted a site visit to investigate the Subject Property for evint.	es rule. Conducted a review of if any current or past uses indicate		
06/21		methods, collected and analyzed three samp Toxicity Characteristic Leaching Procedure w	les for Louisiana Risk vaste soil samples, de	Replacement, Baton Rouge, Louisiana Coordinated with governm Evaluation and Corrective Action Program (RECAP) industrial soil stand eveloped a report summarizing RECAP analytical data, coordinated with ional consulting on an as-needed basis for waste disposal.	lards, collected and analyzed two		
01/98-01/9	9	with an interdisciplinary team to collect, an team leader on multiple investigations and p drilling crew supervision, preparation of reportant Plan, Laboratory Quality Assurance Plan, and constituents from regulated units, solid was	alyze and report da repared many report orts based on analyti i MNA Plans. The purp te management units	stigation (RFI) and Monitored Natural Attenuation (MNA), Jackson ta required for the site-wide Phase II RFI at the refinery and surroundings. This project included monitoring well installation, soil, and water same call data for presentation to the client and regulatory agencies. Also prepose of a RFI is to determine the nature and extent of releases of hazard, and other source areas at the facility, and to gather all necessary data includes the collection of site-specific data to evaluate any human head	g properties. Served as field uple collection, survey and pared the Health and Safety ous wastes or hazardous to support the environmental		



16. Staff	16. Staff Experience							
Firm empl	Firm employed by: HNTB							
Name	Randal Boni	ura, PE		Years of relevant experience with this employer	3			
Title	Project Engine	er, Gulf Coast District Office Quality Manager		Years of relevant experience with other employer(s)	9			
Degree(s)	/ Years / Specia	alization	BSCE / 2010 / Civil E	ngineering	,			
Active reg	jistration numbe	er / state / expiration date	#39861 / Louisiana , #37626-E / Alabama	/ 09-30-2023; #123865 / Texas / 03-31-2023; #82055 / Florida / 02-28-202 a / 12-31-2023	3; #28294 / Mississippi / 12-31-2022;			
Year regis	stered	2015 (LA); 2016 (TX); 2016 (FL); 2017 (MS); 2018	(AL)	Discipline	Civil Engineering			
Contract r	role(s) / brief de	escription of responsibilities	Roadway Design; Lic	ghting, Signing & Pavement Markings				
		Iting engineering experience. As project engineration, civil works, and construction sections.		dway design, cost estimating, and construction administration services	for projects in the Baton Rouge and			
Experienc (mm/yy-n				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).				
02/21-Ongc	oing	Meadow. The T-intersection has a stem that of field investigations, developed detailed con recommendations on horizontal geometric a	e a new two-lane brid consist of a two-lane, estruction plans con lignment layouts, and	Project engineer performing design services for the \$450-million br dge from Leeville to Golden Meadow that includes an intersecting T-inte two-way urban arterial roadway that connects existing LA1 to the new afforming to LADOTD design guidelines and standards. Prepared scop d coordinated with LADOTD the proposed roadway and drainage design the Hydraulics Manual. Roadway design includes accommodations for page	rsection bridge near Golden LA 1/LA 3235 bridge. Performed be of work for surveyor, provided features to meet the department's			
02/17-05/19)	Jefferson Parish Transit Improvement Plan, Jefferson Parish, Louisiana Project engineer for the review and evaluation of 604 transit stops within Council Districts 3, 4, and 5 in order to develop a Transit Stop Improvement Plan for Jefferson Parish. The scope of work included review of available reports and public records and to conduct field investigations for assessing existing conditions in the immediate area of each stop, including applicable infrastructure, intersections, ADA compliant access, crosswalks and connectivity and access analysis. A list of improvements was identified for each stop. Improvements included enhancements for accessibility, safety and features for elements needed to achieve compliance with ADA and other system standards. This included analysis of required sidewalks, ADA ramps, crosswalks, signage, signals, striping and connectivity. Responsible for coordination with subconsultants and stakeholders to gather input for ranking stops for priority improvements.						
05/19-Ongo	oing	transportation initiative. Ascension Parish Pr retainer contract. The program consists of th construction, inspection , and public for cap	ogram Management. ne administration, pla pital improvement pr ltant design reviews.	This is a project management consultant assignment under a multi-year anning, control, design oversight, environmental permitting, ROW a ojects under this unprecedented and bonded transportation investmen This program is a critical step towards long-term sustainability of the p	acquisition, utility relocation, t in the parish's infrastructure			



16. Staff	16. Staff Experience							
Firm empl	Firm employed by: MANNING Achitecture Interfers Planning							
Name	Tighe Kirkl	and, Assoc. AIA		Years of relevant experience with this employer	12			
Title	Principal			Years of relevant experience with other employer(s)	5			
Degree(s)	/ Years / Spec	ialization	B.Arch. / 2005 / Arc BFA / 2005 / Fine A					
Active reg	gistration numb	per / state / expiration date	N/A					
Year regis	stered	N/A		Discipline	N/A			
Contract i	role(s) / brief d	escription of responsibilities	Architecture					
Experience (mm/yy-n				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).				
07/19-0ngo	bing		ted corridors. The Co	on Rouge, Louisiana Principal in charge responsible for the program implete Streets corridor improvements increase safety and comfort to corridor improvements.				
04/15-12/20)	Earnest N. Morial Convention Center Upri roadway into a lushly landscaped, continuou	iver Development, L s pedestrian promen	linear Park Principal in charge responsible for the design of a new plade along Convention Center Boulevard for the length of the Convention	ark repurposing 7.5 acres of Center.			
09/16-08/17	7		reetcar line from the	hase I, Baton Rouge, Louisiana Project coordinator responsible for north gates of LSU to Downtown Baton Rouge, linking multiple neighboriops for the Downtown alignment and six pairs along the Nicholson Drive	hoods to a modern, high-			
02/09-05/1	Dallas Area Rapid Transit (DART) Orange Line Light Rail Expansion, Dallas, Texas Designer responsible for designing six passenger stations for DART's Orange Line extension, coordinating public art and neighborhood components into the designs. The extension addressed the needs of a growing residential and commercial population of Irving, Texas and connects them with a network of light rail service, as well as a connection from downtown to the Dallas/Fort Worth International Airport. The new extension serves 12,500 riders daily, contributing to a system-wide total increased daily ridership of 33,000 people.							
06/13-08/14	4	Louis Armstrong International Airport Lo experience in the design of the new world- traveler's experience within the airport and i	class terminal at Lo	ent Plan, New Orleans, Louisiana Designer responsible for providing Duis Armstrong New Orleans International Airport. Designs created a				



16. Staff Experience								
Firm employed by: MANNING Accidencture Interiors Planning								
Name	Craig King			Years of relevant experience with this employer	13			
Title	Senior Associa	te		Years of relevant experience with other employer(s)	24			
Degree(s)) / Years / Speci	alization	B.Arch / 1985 / Arch M.Arch / 1988 / Arch					
Active req	gistration numbe	er / state / expiration date	N/A					
Year regis	stered	N/A		Discipline	N/A			
Contract	role(s) / brief de	escription of responsibilities	Architecture					
Experience (mm/yy-r				ntract; i.e., "designed drainage", "designed girders", er the time specified in the applicable MPR(s).				
01/16-12/16		_		ortex Station Extension, St. Louis, Missouri The project involving the extension of the Central West End Station plants of the Central				
06/08-12/10	0	Orange Line extension, coordinating public a population of Irving, Texas and connects the	rt and neighborhood m with a network of I	nsion, Dallas, Texas Designer responsible for station design of all components into the designs. The extension addressed the needs of a ight rail service, as well as a connection from downtown to the Dallas/Fn-wide total increased daily ridership of 33,000 people.	growing residential and commercial			
01/02-12/06	01/02-12/06 DART Green Line Light Rail Expansion, Dallas, Texas Project manager responsible for management of DART's art and design program. Managed Line Section NW3, approximately 4-5 miles of double light rail, including a three-mile bridge.							
03/18-08/18	03/18-08/18 New Orleans Regional Planning Commission (NORPC) Baton Rouge to New Orleans Rail Study, New Orleans, Louisiana Designer responsible for the conceptual design for two commuter rail stations and surrounding transit oriented development as part of the strategic business plan for the implementation of intercity passenger rail service between Baton Rouge and New Orleans.							



16. Staff	Experience					
Firm emp	loyed by:	NTB				
Name	Mira Para, I	PE		Years of relevant experience with this employer	3	
Title	Senior Project	Manager - Engineering		Years of relevant experience with other employer(s)	27	
Degree(s)	/ Years / Speci	alization	BS / 1992 / Civil Eng	ineering		
Active reg	jistration numbe	er / state / expiration date	#34990 / Louisiana	/ 03-31-2023; #2002024483 / Missouri / 12-31-2022; #14417 / Kansas / 4-	30-2023	
Year regis	stered	2009 (LA); 2002 (MO); 1997 (KS)		Discipline	Civil Engineering	
Contract i	role(s) / brief de	escription of responsibilities	Water/Wastewater/U	Utility		
experience	in project manag	ement, storm drainage design, drainage pump	stations, flood contr	nage analysis and design, project management, and construction admin ol structures, detention basin design, ponds and lakes design, dams an reatment, water distribution systems, residential development, and con	d levees design, erosion control	
Experienc (mm/yy-r				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).		
01/20-0nga	oing	methodology for the parish-wide stormwater plan. The purpose of the SMP is to better ma water and related land resources, and provide	r management plan (S nage the risk of flood le clear guidance of d	ge, Louisiana Task lead responsible for the development and docur SMP). The SMP combines local drainage and floodplain management its, protect people and property, maintain and enhance natural floodpla levelopment within the floodplain. The project includes data collection, ing for 11 watersheds, a public engagement program, and the identification.	into an overall comprehensive ins, facilitate the effective use of the development of a GIS database,	
12/19-Ongo	ing	under Land Company on this alternative delivery project. This Desi near Loyola Boulevard. A Design-Build team of the company o	gn-Build project is pr	oviding a new interchange to allow direct access from I-10 to the new a		
01/20-04/2	1	MSDOT Stream Bank Stabilization and Countermeasures for US 61 over Buffalo River, Wilkinson County, Mississippi Engineer responsible for quality control review of final design plans. Design included longitudinal fill stone toe protection (LFSTP) to protect the riverbank. A site visit identified an area of scour concern along Sandy Creek, a tributary to Buffalo River at the Highway 61 crossing. Channelization and stabilization measures were designed to address the area of concern. Bentley's GeoPak and MicroStation programs were utilized in producing the 3D model needed to facilitate quantity calculations and plan production. The project includes Sandy Creek channelization and LFSTP installation along the south bank of Buffalo River.				
05/20-03/2	21	grant application technical support services floodplain acquisition, Jones Creek detentior under Round 1 of Louisiana's Community Dev projects statewide to provide citizens with in models previously developed; prepared maps	to the City of Baton F n basin, Dawson Creel elopment Block Gran nmediate relief from i s and exhibits; devek	Orant Applications, Baton Rouge, Louisiana Project manager/e Rouge/East Baton Rouge Parish for five projects: Ward Creek floodplain Rouge/East Baton Rouge Parish for five projects: Ward Creek floodplain Rouge/East Baton Rouge Improvements, and EBR bridges. Each project Mitigation funds (CDBG-MIT) for the LWI. Round one of this program m Intense and frequent storms and floods. HNTB performed hydrologic Roped feasibility level project designs, schedules and cost estimate The effectiveness calculations; and performed an environmental and urba	received pre-application approval ade available \$100 million for eligibl and hydraulic analyses from es; performed cost versus benefit	



16. Staff Experience								
Firm employed by: HNTB								
Name	Collins Land	Íry		Years of relevant experience with this employer	1			
Title	Senior Field Re	presentative		Years of relevant experience with other employer(s)	34			
Degree(s)	/ Years / Specia	alization	High School Diplom	a / 1983				
Active reg	jistration numbe	er / state / expiration date	N/A					
Year regis	tered	N/A		Discipline	N/A			
Contract r	role(s) / brief de	scription of responsibilities	Water/Wastewater/Utility					
Collins has	joined HNTB's Bat	on Rouge office as a senior field representativ	e with more than 34	years of experience in utility and permit services in Louisiana.				
Experienc (mm/yy-n				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).				
03/21-Ongo	D3/21-Ongoing East Baton Rouge Parish MoveBR, Baton Rouge, Louisiana The MOVEBR Program is a \$1.2-billion program of projects that was separated in to a list of capacity and enhancement projects. As a sub, HNTB is responsible for \$800 million in capacity infrastructure projects on 40 roadways throughout the parish of East Baton Rouge. As the utility relocation manager, Collins is responsible for coordination with all utility companies to determine whether relocation will be required based on the design plans, working through decisions relative to utility space allocation in the corridor and developing and coordinating agreements with Utility companies. During construction, he is responsible for coordination of the physical relocation, confirming the utilities have relocated per the plans and identification and resolution of conflicts that may be found during construction.							
08/16-07/19	08/16-07/19 L & R Permit & Utility Consultants, LLC Co-owner of this business which aided utility companies acquire ROW and lane closure permits to place assets in state a local ROW.							
08/99-7/17		LADOTD Utility and Permit Specialist, Sta as to remove conflicts for new state construct opportunities to save millions of dollars for t	ction projects. He wo	As a utility and permit specialist, he coordinated with utilities comp rked with ITS projects and roadway projects amongst others utilizing his.				



16. Staff	16. Staff Experience							
Firm emp	Firm employed by: HNTB							
Name	Kyle LeBlar	10		Years of relevant experience with this employer	39			
Title	Senior Field Re	epresentative		Years of relevant experience with other employer(s)	2			
Degree(s) / Years / Speci	ialization	N/A					
Active re	gistration numb	er / state / expiration date	OSHA 10 Hour (Cons	struction) ntrol Supervisor; Flagger				
Year regi	stered	N/A		Discipline	N/A			
Contract	role(s) / brief d	escription of responsibilities	Construction Supp	ort; Initial Inventory & Conditions Assessment				
		rience to HNTB serving as a senior field represe ior field representative, and construction office		past field (Lousiana) office. He has worked on projects as a technician s	pecialist, CADD operator, senior			
Experience (mm/yy-				ntract; i.e., "designed drainage", "designed girders", er the time specified in the applicable MPR(s).				
2020		LADOTD I-10 Widening (LA 347 to Atchafa His duties include tracking quantities to en daily work reports for inspectors, create cha	isure timely and accu	rate payment to the contractors, maintain pay records and tracking loc				
2018				isiana Senior field representative/QA specialist for this project. His tative for approval or rejection for products to be used on project, ens				
05/16-06/1	16	I-10 Bridge Over Mississippi River Inspect Baton Rouge. Inspection included visual insp surfaced roadway deck.		Louisiana Team member involved in the in depth inspection of I-10 beand approach concrete piers, pier caps, roadway deck, steel superstruc				
2012-2016								
2011-2012		less experienced staff members in proper in	spection and docume	Senior field representative responsible for the supervision of inspecentation procedures. He was also the liaison between contractor and in Preparation of change orders, review of monthly pay estimates to cont	spection staff to ensure adherence			



16. Staff Experience								
Firm employed by: FORTE & TABLADA								
Name	Ross Wilson	ı, PLS		Years of relevant experience with this employer	10			
Title	Surveyor			Years of relevant experience with other employer(s)	2			
Degree(s)	/ Years / Speci	alization	BS / 2010 / Geomati	ics				
Active reg	istration numbe	er / state / expiration date	#5148 / Louisiana /	03-31-2024				
Year regist	tered	2015		Discipline	Land Surveying			
Contract re	ole(s) / brief de	escription of responsibilities	Survey/ROW					
Experience (mm/yy-m				ntract; i.e., "designed drainage", "designed girders", er the time specified in the applicable MPR(s).				
04/21-06/21		LADOTD LA 397: Turn Lanes at Rice Mill, (Road in Calcasieu Parish.	Calcasieu Parish, Lo	uisiana Surveyor responsible for topographic surveying at the inter	section of LA 397 and Joe Spears			
8/19-1/20		LADOTD I-10/Loyola Interchange Improve project stretches from the levee in Kenner to		i <mark>isiana</mark> Project manager providing topographic survey, ROW surve ard off ramp, as well as Loyola Avenue and portions of Veterans Bouleva				
6/20-0ngoii	ng	LADOTD Rural Bridge Replacement Initiat	tive, Statewide, Lou	isiana Surveyor for topographic and property surveying of 22 brid	lges in Louisiana.			
1/20-10/20		I-10: Atchafalaya Basin Bridge-West, Batc Atchafalaya Bridge to the West end of the I-10 Rouge and Iberville Parishes.		Project manager for complete topographic survey , approximately . This included bridges P/L, I-10: Iberville P/L-W End Miss Br, I-10: W End of	18.3 miles, from the East end of the Br 290-W End of LA 415- West Baton			
11/19-12/20			derneath the bridge	Parish, Louisiana Surveyor to provide laser scanning services for 10 spans on the east and west side, on top the deck to capture the statical scans, mobile Lidar was done for future planning.				
11/18-04/19		LADOTD LA 327 Spur Staring Lane Extenstion. Route LA 327-S- East Baton Rouge Parish, Louisiana Project manager for a topographic survey for this project which is located in East Baton Rouge Parish, in between the intersections of LA 42 (Burbank Dr.) and Staring Ln. and LA 327 (Gardere Lane) and LA 30. A complete Topographic survey including all utilities with depths and all drainage was required, along with finish floor elevations of all buildings that fall within the survey limits.						
05/17-10/18			el Replacement proje	ect for LADOTD. Included in this work was a survey performed utilizing	orehensive topographic surveying traditional methods, terrestrial			



16. Staff	Experience							
Firm employed by: GOTECH, INC. Committee Engineers								
Name	Robert Pric	ce, PLS		Years of relevant experience with this employer	4			
Title	Chief Engineer			Years of relevant experience with other employer(s)	20			
Degree(s	s) / Years / Speci	alization	BS / 1997 / Surveyir	ering and Technology Management ng and Mapping al Technology and Building Construction				
Active re	gistration numb	er / state / expiration date	PLS: #4889 / Louisi	ana / 03-31-2024				
Year regi	istered	1992		Discipline	Land Surveying			
Contract	role(s) / brief de	escription of responsibilities	Survey/ROW					
Robert is a utility loca	a licensed profess ation designation s	ional land surveyor with more than 20 years of support for pipeline, road improvement, LNG fa	experience in land su cilities, oil and gas w	urveying and mapping; project management and personnel managemer ell locations, and private development projects.	nt. He has provided surveying and			
Experien (mm/yy-				ntract; i.e., "designed drainage", "designed girders", er the time specified in the applicable MPR(s).				
04/15-0ng	going	Robert was the professional land surveyor pracquisition required for design of a new road	roviding professional I roundabout in Thibo perties. Final ROW ma	evard) & Local Routes (Back Street, Jackson Street, Thompson Plates supervision and project management oversight for the ROW mapping so deaux, Louisiana. Project included field property surveys performed ap and parcel description deliverables, along with MicroStation parcel murvey delivery requirements.	services to support parcel to LADOTD survey standards			
10/17-Ongo	oing		napping services to	ng (LA 73 Tillotson Road/Akins Road) Ascension Parish, Louisiana support the design and ROW acquisition for the Move Ascension - Henry ght miles of roadway in Ascension Parish.	Robert is the project manager y Road widening project. Project			
04/18-06/	18	LADOTD Local Road Safety Program / Safe Routes to School Peltier Park Sidewalks Robert was the Survey Project Manager managing the topographic survey to support design for various sidewalk, driveway and handicapped curbed ramp improvements along the perimeter of Peltier Park in Thibodeaux, Louisiana. Project field activities included a 2,400-linear foot existing conditions and utility survey utilizing LADOTD electronic data collection standards. The final deliverables for the project consisted of detailed plan/profile sheets drawn for the project alignment.						
05/17-07/1	7	location survey services in support of desi topographic, elevation and utility survey with exit/entrance ramps and elevated overpasse	gn plans and specific hin the entire limits o s in addition to the lo	sh, Louisiana As survey project manager, Robert professionally ma cations for the I-55 at LA 22 interchange lighting in Tangipahoa Parish. Sof the I-55 interchange with LA 22. The topographic survey included data ocation of both above ground and subsurface utilities required to facilities with LADOTD location and survey standards.	Survey crews conducted a complete a collected on the highway crossing			



16 CL-55 F								
16. Staff E	16. Staff Experience							
Firm emplo	oyed by: GOTE	CH, INC.						
Name	Bruce Dyso	n, PE, PLS		Years of relevant experience with this employer	25			
Title	General Manag	er/Survey		Years of relevant experience with other employer(s)	16			
Degree(s)	/ Years / Specia	alization	BS / 1978 / Civil Eng	ineering				
Active regi	istration numbe	er / state / expiration date	PE: #20162 / Louisia PLS: #4670 / Louisia					
Year regist	tered	1982 (PE, PLS)		Discipline	Civil Engineering/Land Surveying			
Contract ro	ole(s) / brief de	escription of responsibilities	Survey/ROW					
Specific are	as of expertise ir		and flood control. Br	ngineering, project management, construction administration and mana ruce has supervised up to five survey crews at GOTECH working on a vari d New Orleans Sewerage & Water Board.				
Experience (mm/yy-m				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).				
04/15-Ongoi	ing	was the Engineering/Survey Manager providi required for design of a new road roundabou	ing professional supe It in Thibodeaux, Loui Ip and parcel descript	ard) & Local Routes (Back Street, Jackson Street, Thompson Place) ervision and project management oversight for the ROW mapping servi isiana. Project included field property surveys performed to DOTD surve tion deliverables, along with MicroStation parcel mapping files, were revints.	ces to support parcel acquisition y standards and parcel title work			
10/17-03/18		field surveys performed to LADOTD survey st features, drainage structures, designated sul	rveys to support var andards within the fu bsurface utility locati	arish, Louisiana Bruce provided project oversight as Engineering / Sious interstate lighting design projects. The projects included static GPS ull limits of the highway interchange. The survey field information gathe ions, and structure data on elevated portions of the interstate bridge over the data on elevated portions of the interstate bridge over the data on the interstate bridge over the data on the interstate bridge over the data on the interstate bridge over the data of the interstate bridge over the data of the interstate bridge over the data of the interstate bridge over t	S control surveys and topographic red included roadway surface verpass. Final deliverables, and			
02/14-11/16	D2/14-11/16 LADOTD LA Hwy 431 at LA Hwy 934 Intersection Improvements, Ascension Parish, Louisiana Intersection Improvements project. GOTECH provided topographic surveying and mapping services for the project. The work was located in Ascension Parish on what are currently two-lane highways with narrow shoulders and adjacent open ditch drainage. GOTECH field crews obtained field data in a format that was used to in MicroStation CADD drawings with Inroad's software. GOTECH also mapped the data in an AutoCAD version for the designers to use. The topographic map showed existing features as pavement, ditches, culverts, lighting, signs, utility poles, traffic controls, driveways, and other utilities. GOTECH also developed an existing drainage map for the project. The watershed covered approximately 25 acres of contributing drainage area.							
10/12-12/14			LA Hwy 22. Cross Sec	Bruce was the quality control reviewer for the I-10 project in Ascension ctions were taken from ROW line to ROW line to provide data for the Integ spacing and clearance dimensions.				



16. Staff Experience							
Firm empl	Firm employed by: HNTB						
Name	Brian Powe	II, PE		Years of relevant experience with this employer	19		
Title	Sr. Geotechnic	al Engineer/Squad Leader		Years of relevant experience with other employer(s)	1		
Degree(s)	/ Years / Speci	alization	MS / 2007 / Civil End BS / 2002 / Civil End	gineering (Geotechnical) gineering			
Active reg	istration numb	er / state / expiration date	#41551 / LA / 09-30-	2023; #29116 / MS / 12-31-2023			
Year regis	tered	2017 (LA); 2018 (MS)		Discipline	Civil Engineering		
Contract r	ole(s) / brief de	escription of responsibilities	Geotechnical				
Experience (mm/yy-m				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).			
08/15-Ongo	ing	Meadow levee system that required a 408-pe Geotechnical tasks included T-wall-type flood	ermit review with the dwall design and foun	uisiana Geotechnical task lead for the Phase II floodwall design at USACE. The project included the construction of nine miles of bridge frod dation support, seepage cutoff, and global stability analyses according settlement analysis to estimate floodwall subsidence. Oversaw pile prod	om Leeville to Golden Meadow. I to USACE Hurricane Storm Damage		
01/19-Ongoi	ing		nsibilities include rev submittals of this cr	riew of design reports, design criteria, adherence to the performance-b itical interchange connecting I-10 and Loyola Ave through the local urba			
01/18-06/19			ridge and tunnel repl	acement project, tasked with the development of technical procuremen	chnical technical procurement at documents. This P3 project, the		
12/17-08/21					cal subsurface exploration drilling ndations including bi-directional reinforcement, permanent		
12/17-08/21		development of geotechnical design para shoring design and slope stability analyse	meters, deep found es. He is also provided	County, Mississippi Geotechnical task lead responsible for the geot er ation shaft analyses and recommendations including bi-directional dengineering support during advertisement and construction. HNTB was transfer widening was designed to be founded on existing 14-inch cast-in-	al load test plans and temporary as scoped by MDOT to design and		



16. Staff Experience							
10. Stall E	+		7				
Firm empl	Firm employed by: APS Engineering and Testing						
Name	Sergio Av	iles,	PE		Years of relevant experience with this employer	9	
Title	President				Years of relevant experience with other employer(s)	10	
Degree(s)	/ Years / Spe	ecializ	ration	BS / 2001 / Civil Eng	ineering - Geotechnical		
Active reg	istration nur	nber /	state / expiration date	#33571 / LA / 03-31-	2024		
Year regis	tered	2	007		Discipline	Civil Engineering	
Contract r	ole(s) / brief	desci	ription of responsibilities	Geotechnical			
Experience (mm/yy-m					ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).		
09/19-06/20	0	si e		the Washington Exit	oject manager to the geotechnical investigations for APS' LADOTD geo and ending at the LSU lakes. Along with this drilling and sampling APS a the water borings and 44 land borings with approximate 1000 triaxial co	lso tested for strength and	
08/16-10/19		re	etainer to drill and sample a total of six dee	p borings for the desi	Je, Louisiana Project manager to the geotechnical investigations ign of the Terrace Avenue exit. APS tested for strength and engineering undrained and atterberg limits by APS Laboratory.		
11/17-2/18			ADOTD US 61 Thompson Creek Bridge Re ample a total of eight deep borings for the r		Project manager to the geotechnical investigations for the LAD t US 61. APS tested for strength and engineering characteristics of the s		
11/17-2/18		fo			A 19 Railroad Bridge LA 67 and LA 19, Louisiana Project manager to borings for the new and replacement bridges at Hwy 19, 67, and 964. A	to the geotechnical investigations PS tested for strength and	
03/19-05/19	Day 19-05/19 LADOTD US 190 over Bogue Falaya River, Louisiana Design team project manager for the geotechnical investigation and design of the proposed new bridge. A to of 19 deep borings were drilled and tested for the foundation recommendation.				of the proposed new bridge. A total		
12/19-3/20			LADOTD US 90 Railroad Overpass SE of LA 85, Louisiana for geotechnical recommendation. Design team project manager for the project design team. A total of 6 deep borings were drilled and tested				
02/17-10/17					levard. Per the task order APS ip elevations for five elevated		



16 61 65								
16. Staff E	16. Staff Experience							
Firm emplo	oyed by:	FORTE & TABLADA						
Name	Bradley Ho	lleman, PLS, El		Years of relevant experience with this employer	1			
Title	Senior Vice Pre	esident, Survey/Advanced Measurements and M	lodeling	Years of relevant experience with other employer(s)	15			
Degree(s)	/ Years / Speci	alization	BS / 2009 / Civil Eng	gineering and Land Surveying				
Active regi	istration numb	er / state / expiration date	PLS: #5082 / Louisia	ana / 09-30-2022				
Year regist	tered	2012		Discipline	Land Surveying			
Contract ro	ole(s) / brief de	escription of responsibilities	Initial Inventory & C	Conditions Assessment				
Experience (mm/yy-m				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).				
04/12-09/12		This project was for drainage improvements	to resolve localized r	st Parish, Louisiana Surveyor-in-charge for the topographic surve coadway flooding along LA 3188. The work consisted of completing a top option and all drainage required along with finished floor elevations of all	ographic survey, according to the			
05/18-04/19)		gn of I-10 improvemer	uisiana Surveyor-in-charge for the topographic survey, 3D Mobile nts of an eight-mile stretch in New Orleans East. The work consisted of cull utilities with depths and all drainage required along with finished floor	ompleting a topographic survey,			
04/19-08/19			v route connecting LA TD Location and Surv	Surveyor-in-charge for the topographic survey, 3D laser s A 1 to LA 415, over the Intercoastal Waterway in West Baton Rouge Parish vey Manual, including all utilities with depths and all drainage required al	. The work consisted of completing			
01/18-04/20	LADOTD I-10: LA 415 to Essen Lane, East Baton Rouge Parish, Louisiana Surveyor-in-charge for the topographic survey and 3D mobile laser scanning. This project was for the widening design of I-10 from LA 415 to Essen Lane in East Baton Rouge Parish. The work consisted of completing a topographic survey, according to the LADOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.							
03/21-06/21	03/21-06/21 LADOTD LA 397: Turn Lanes at Rice Mill, Calcasieu Parish, Louisiana Supervising professional for the topographic survey. This project was for the construction of turn lanes on LA 397 in Calcasieu Parish. The work consisted of completing a topographic survey, according to the LADOTD Location and Survey Manual, including all utilities drainage and topographic features within the survey limits.							
05/21-01/22		LADOTD LA 151: Creek and Relief Bridges, three bridge replacements along LA 151 in Un a set of ROW maps, according to LADOTD spe	ion and Lincoln Paris	hes. The work consisted of conducting field and office analysis to determ				



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16. Staff	5. Staff Experience							
Firm emp	loyed by:	NTB						
Name	Rakesh Sha	rma, PE, PTOE		Years of relevant experience with this employer	14			
Title	Senior ITS and	Traffic Operations Engineer		Years of relevant experience with other employer(s)	5			
Degree(s)) / Years / Specia	alization	ITS Project Manage MS / 2005 / Civil Eng BS / 2001 / Civil Eng	gineering				
Active re	gistration numbe	er / state / expiration date		02-28-2023; #72324 / Ohio / 12-31-2023 Operations Engineer				
Year regi	stered	PE: 2010 (FL); 2007 (OH) PTOE: 2009		Discipline	Civil Engineering			
Contract	role(s) / brief de	escription of responsibilities	Needs Assessment;	FMCSA Program Plan/Top Level Design				
manageme	ent. Rakesh is instr Il and West Florida ce dates	rumental in developing CAV program in the Sta region toll roads for traffic engineering and st Experience and qualifications relevant t	te of Florida and plar afety issues. To the proposed cor	management, managed lanes operation and management, emergency ined and developed several deployment projects. He also worked with intract; i.e., "designed drainage", "designed girders", er the time specified in the applicable MPR(s).				
02/15-Ong								
02/15-Ong	FDOT MCSAW White Springs WIM, White Springs, Florida Engineer of record supporting FDOT's MCSAW program, including planning; performance measures; outreach and training; specifications and standards; and telecommunications and networking. This contract works closely with other state agencies including the departments of Highway Safety and Motor Vehicles, Agriculture and Consumer Services and Revenue, as well as key industry partners such as the Florida Trucking Association (FTA). Specific tasks include facilitation of a strategic plan visioning session which brought together various FDOT departments, state agencies and industry stakeholders to collaborate. The session set the framework for future technology enhancements; the development and deployment of a fiber optic inter-connection plan to link all interstate weigh stations on a fiber optic network; the piloting of mainline screening technologies to allow for increased efficiency of CVO; and the development of a GIS-based asset management platform. The platform included initial inspection and rating based on FDOT maintenance rating factors and led to the prioritization of activities for scale facility repairs and the programming of projects into a 10-year cost feasible plan and five-year work program. In addition, this contract is leading further development of the database system which will provide increased tracking capabilities of freight movement, to ultimately include size, weight, bill of lading and permit tracking.							



16. Staff I	16. Staff Experience							
Firm empl	oyed by:	NTB						
Name	Laura Wagn	er-Bartz, PE		Years of relevant experience with this employer	13			
Title	Technology Pro	oject Manager		Years of relevant experience with other employer(s)	7			
Degree(s)	/ Years / Speci	alization	MCE / 2009 / Civil E BS / 2002 / Geologic					
Active reg	istration numbe	er / state / expiration date	#2007002851 / Miss Florida / 02-28-2023	souri / 12-31-2023; #24GE05374000 / New Jersey / 04-30-2022; #29921 / 3	Oklahoma / 04-30-2023; #84855 /			
Year regis	tered	2007 (M0); 2017 (NJ, OK); 2018 (FL); 2021 (MI)		Discipline	Civil Engineering			
Contract r	ole(s) / brief de	escription of responsibilities	Asset Management					
she has foc manuals, re retention sy Experienc	cused on infrastrue ports, white pape ystems, and othe re dates	acture management and inventory projects. Shers, tech memorandums, and plan sheets. Laur infrastructure. Experience and qualifications relevant t	e has prepared multipate is experienced in life to the proposed cor	ence preparing geotechnical engineering reports for private and governole types of documentation of findings from dashboard applications, traffecycle analyses, engineering design, and report preparation related to entract; i.e., "designed drainage", "designed girders",	aining documentation, slide decks,			
(mm/yy-m	nm/yy)	"designed intersection", etc. Experienc	e dates should cov	er the time specified in the applicable MPR(s).				
2020-Ongo	ing	technology department to allow the various analysis, and data set evaluation, and asset r	existing databases to management dashboo xpenditures more acc	ation, Macomb County, Michigan Data development task lead development to each other to create a single user interface system. Delivered by the system of th	rables such as a data dictionary, gap ogram . The dashboards allow the			
01/20-12/20)	an asset management system developed	for FDOT to set proce	ventory and Condition Assessment, Statewide, Florida Task lea edures for collecting, analyzing, maintaining and reporting at rest areas of determine the existing condition, future life span, and an optimum parameters.	s. Concrete and asphalt pavement			
01/17-12/17	Task lead and lead pavement engineer for an asset management system developed for the MCSAW program to set procedures for collecting, analyzing, maintaining and reporting at weigh stations. Concrete pavement condition for on and off ramps was collected to determine the existing condition, future life span, and an optimum pavement design for new pavement. Pavement was also analyzed to determine if larger motor vehicle weights would be acceptable on existing pavement.							
01/20-0ngo	Michigan DOT Ancillary Structures PMC, Statewide, Michigan Deputy project manager leading program development. Lead on development of rating schema, data dictionary, inspection procedures, training for 16 types of ancillary structures. Laura participated in multiple client workshops on risk, inventory and inspection requirements. The goal is to develop and maintain an ancillary structures database framework and to develop a new asset management program for ancillary structures. Structures.							
2016-Ongoi	ng	multiple variables, including air content, bind	der content, sieve var	danagement System Implementation, Statewide, New Jersey iations, and historic asphalt types. She created a new pavement ration maintenance timing and activities such as crack filling, milling, an				



16. Staff E	16. Staff Experience							
Firm emplo	oyed by:	NTB						
Name	John Benda			Years of relevant experience with this employer	7			
Title	Senior Technolo	ogy Project Manager		Years of relevant experience with other employer(s)	40			
Degree(s)	/ Years / Specia	lization	BA / 1974 / Political	Science				
Active regi	istration numbe	r / state / expiration date	N/A					
Year regist	tered	N/A		Discipline	N/A			
Contract ro	ole(s) / brief de	scription of responsibilities	Asset Management					
maintenance was respons	e and traffic oper sible for Roadway	rations on the Illinois Tollway's four interstate and Fleet Maintenance, Central Dispatch, Trafi	routes that carry inte fic Operations, includ	Maintenance & Traffic Operations for the Illinois Tollway. He managed and erstate and intra urban traffic in Northeastern Illinois and serve more th ling the Traffic Operations Center, Incident Management, and Permits an ohn worked for the City of Naperville for eight years before joining the T	nan 1.4 million customers daily. John and Utilities Units. John managed a			
Experience (mm/yy-m				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).				
10/19-Ongoir	ng	implementation of a paperless, geospatial a resulting priority condition assessments will	sset management-l be the basis to devel	ventory and Condition Assessment, Statewide, Florida Project no based inventory and condition assessment of FDOT's 56 safety rest a lop a multi-year Capital Improvement Program and will guide upgrade are port FDOT staff inspections of the asset management contractor's performance of the staff inspections of the saset management contractor's performance of the saset management contractor of the saset manag	nd modernization efforts at these			
04/15-Ongoi	ing	Implementation Program for NJTA's statewid assessment collection methods, implement will be providing pavement management services.	e roadway facilities. Itation of a Virtual Dr Vices on an annual ba with the lifecycle per	ion, Statewide, New Jersey Project manager for an Enhanced Pave This assignment includes the integration of automated pavement conditive feature, and the application of AASHTO software to analyze and precasis and has developed a Pavement Condition Viewer application that enformance forecasts to select and evaluate resurfacing and other maintenance and repair programs.	tion ratings, as well as advanced dict pavement performance. HNTB nables Authority Staff to compare			
10/18-Ongoir	Plate 10/18-Ongoing FDOT MCSAW Program Support, Tallahassee, Florida Task lead to develop and implement Phases 1 and 2 of a three-phase program to automate the current manual Citation Protest Tracking and Scheduling process that supports the monthly protest hearings. Phase 2 has shifted the entire Citation Protest Tracking and Hearing to a paperless system. Phase 3 will implement a website to facilitate electronic communication, protest filings and efficient and open communication to support the Citation Protest Hearing process.				test Tracking and Hearing to a			
04/15-Ongoi								



16. Staff Experience								
	Firm employed by: CAMBRIDGE SYSTEMATICS							
Name	Mike Williar	mson		Years of relevant experience with this employer	29			
Title	Principal			Years of relevant experience with other employer(s)	0			
Degree(s)	/ Years / Speci	alization	BS / 1993 / Business	s Administration				
Active reg	istration numbe	er / state / expiration date	N/A					
Year regist	tered	N/A	,	Discipline	N/A			
Contract r	ole(s) / brief de	escription of responsibilities	Performance Measu	ures				
System Plar	n, updated its Wa ike led the USDOT e dates	terway System Plan, and led and supported fre 's South Florida Freight Advanced Traveler Info Experience and qualifications relevant t	ight programs for FD rmation System Sma o the proposed cor	IPOs, many of the smaller MPOs, and for the Florida DOT (FDOT). He led FOT Districts 1, 4, 5, and 6. He also managed the Florida Chamber Foundar II Scale Deployment Pilot. ntract; i.e., "designed drainage", "designed girders", er the time specified in the applicable MPR(s).				
04/19-1/21		operations related investments in Texas in	n support of the Texas challenges and oppos	OP), Statewide, Texas Supporting development of the FNTOP, which is Freight Mobility Plan and its underlying Texas Multimodal Freight Network Trunities, freight technology and operations strategy assessments and its.	ork. This effort will include a review			
05/21-0ngo	ing	Texas Freight Mobility Plan Implementation with the scope and client expectations. This is supporting a 5-year contract to update and i	has included review	QA/QC officer responsible for reviewing all client deliverables, ensure of work authorizations on truck parking, truck design, regional free	ring content and quality are in-line ight plans , and more. Mike is			
09/04-0ngc	Florida Seaport and Waterway System Plans and Program Development, Statewide, Florida Managed development of the first ever statewide seaport system plan. This plan defined current operations, needs, and funding opportunities as well as established a process for evaluating and prioritizing ongoing state investments in Florida's seaports. Mike has provided ongoing support for the last decade, including input to the intermodal logistics center grant program and evaluation of annual seaport project applications, input to the Cruise Industry Study, and development of seaport performance measures. Currently he is working with FDOT to update the Seaport System Plan.							
06/07-0ngo	oing	assist the district in the development of a dis	strict-wide freight pro	District 4, Florida For more than a decade, Mike has led or supported or supported or supported ILC market assessments, rail of a truck parking demand study, and a truck safety analysis.				



16. Staff	16. Staff Experience						
Firm emp	Firm employed by: HNTB						
Name	Todd "Dust	y'' Bastion, PE		Years of relevant experience with this employer	9		
Title	Project Manag	er		Years of relevant experience with other employer(s)	7		
Degree(s)) / Years / Speci	alization	BS / 2007 / Civil Eng	gineering			
Active req	gistration numb	er / state / expiration date	#36719 / Louisiana ,	/ 03-31-2024; #21004 / Mississippi / 12-31-2022			
Year regis	stered	2011 (LA); 2012 (MS)		Discipline	Civil Engineering		
Contract	role(s) / brief de	escription of responsibilities	Contract Solutions/	Alternative Delivery			
	rformance specifice dates	cations and technical provisions ranging acros Experience and qualifications relevant t	s various engineering to the proposed cor	development of construction duration schedules, and other procuremy disciplines and has also participated in owner verification design revintract; i.e., "designed drainage", "designed girders", er the time specified in the applicable MPR(s).			
08/19-Ongo	oing	assignments for this design-build OV project are compiled in Form DRs and returned withi calculations, design criteria, and plan submit because of his detailed knowledge of the pro constructability of design-builder's progress	. He is responsible for in the agreed-upon tw ttals. In addition to th oject as well as LADOT s submittals is verified	vices, Jefferson Parish, Louisiana Technical procurement team I making technical review assignments based on the contents of each so-week timeframe. Specific responsibilities include managing review rese management responsibilities, Dusty is also a lead reviewer on brid D bridge policy and procedure. Additionally, adherence to the perform d for this critical interchange connecting I-10 and Loyola Avenue through national Airport terminal expansion. Dusty also developed the FHWA makes.	submittal, and ensuring comments equests for information (RFI), desigr ge and structural related submittals ance-based specifications and In the local urban communities and		
Description of the development of performance specification with LADOTD leadership to ensure this project is a leading example of what alternative delivery can do for the State of Louisiana. Technical procurement team lead for this traffic congestion relief and safety enhancement design-build project. This project will construct one bridge overpass over I-12 as well as controlled access ramps to eliminate the dangerous weaving movements required for westbound traveling traffic to exit at College Drive. Dusty's roles included the development of performance specification documents , response to design-builder questions, participation in public meetings, oversight for the development of permit drawings and conceptual renderings, construction cost estimating and schedule development, utility and stakeholder involvement, request for qualifications evaluation participation, and very close coordination with LADOTD leadership to ensure this project is a leading example of what alternative delivery can do for the State of Louisiana. The documents Dusty helped develop as part of this design-build procurement will become part of the design-build contract which will govern this OV project.							
01/18-06/19	9	this alternative delivery bridge and tunnel refixed span bridge. His roles included the dev	eplacement project. T elopment of technica	Public-Private Partnership (P3), Belle Chasse, Louisiana Techn his P3 project, the first-of-its-kind in Louisiana, will replace two obsoled procurement documents, response to developer questions, attendance tion participation, and close coordination with LADOTD leadership.			



16. Staff E	16. Staff Experience						
Firm emplo	oyed by:	NTB					
Name	Brad Guilmi	ino		Years of relevant experience with this employer	12		
Title	Advisory Servi	ces Consultant		Years of relevant experience with other employer(s)	10		
Degree(s)	/ Years / Specia	alization	BS / 2000 / Finance				
Active reg	istration numbe	er / state / expiration date	N/A				
Year regist	tered	N/A		Discipline	N/A		
Contract r	ole(s) / brief de	escription of responsibilities	Contract Solutions/	Alternative Delivery			
	d financial expert			His unique blend of municipal investment banking and P3 experience allocial plans, cash flow analysis and value-for-money studies to assist clier			
Experience (mm/yy-m				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).			
04/18-12/19		LADOTD Belle Chasse Bridge Toll Replacer first tolled P3 project, which reached financia meetings, revenue forecasts and contractual between the P3 advisory team consultants.	al close in December i	ge, Louisiana P3 specialist providing technical and financial proc 2019. He provided specialized advisory services around commercial term red his unique financial background, P3, tolling and policy expertise to provide the provided special services.	ns, tolling strategies, developer		
09/18-12/19		effectively deliver alternative funding, tolli	ng and P3s. Analysis	g Report, Salt Lake City, Utah Project manager responsible for ass includes a legislative needs assessment of statutes/rules, identification and P3. Additionally, HNTB updated UDOT business rules to more effective.	of alternate funding sources, and		
07/17-02/19							
02/12-12/12		LADOTD LA 1 Toll Financial Advisory, Baton Rouge, Louisiana Financial consultant responsible for advising LADOTD on debt restructuring opportunities. Primary responsibilities include analyzing toll rate strategies to comply with bond indenture covenants and evaluate potential debt restructuring options for the existing senior lien bonds and federal TIFIA loan. He assisted LADOTD's effort to renegotiate the TIFIA loan with FHWA, the first effort of a renegotiation that FHWA has undertaken.					
09/19-06/20	0	partnership strategies. Responsible for devel	oping a comprehens projects and technol	an Update, San Diego, California Subject matter expert for regionalive pricing report and revenue analysis identifying approaches to im ogy solutions. Also led a P3 evaluation of various project types for the "sipation.	prove mobility and reduce		



16. Staff Experience									
Firm empl	Firm employed by: HNTB								
Name	Tim Howert	on		Years of relevant experience with this employer	14				
Title	Senior Softwar	re Engineer		Years of relevant experience with other employer(s)	6				
Degree(s)	/ Years / Speci	alization	MA / 2002 / Geograp BA / 1999 / Geograp BA / 1999 / History						
Active reg	istration numbe	er / state / expiration date	N/A						
Year regis	tered	N/A		Discipline	N/A				
Contract r	ole(s) / brief de	escription of responsibilities	Inspector Daily Logs	S					
practices. I	n this role, Tim ut		reate innovative busi	professionals who develop innovative solutions for the firm's design, en iness and geospatial solutions for both web and desktop environments ementations.					
Experience (mm/yy-m				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).					
08/14-Ongo	oing	project. HNTB is providing long-term hosting system has been collaboratively designed an The asset management system provides for in tabular formats or in a graphical format or	g, maintenance and er d developed in sever web-based viewing ar n a map, integrated w	Asset Management, Michigan Hosting and support lead for this standard eveloped statewide IT all phases and has been established as a crucial element to MDOT's ongoind reporting which allows remote access to statewide ITS data. Users carith MDOT's statewide GIS. This flexibility allows MDOT development, operment module assists MDOT in projecting capital and operational costs y	S asset management system. The ping asset management strategy. an query ITS assets and view results prations and maintenance personnel				
10/17-06/21	FDOT MCSAW Weight Inspector Reporting Application, Tallahassee, Florida Role for the development and deployment of a fiber optic inter-connection plan to link all interstate weigh stations on a fiber optic network; the piloting of mainline screening technologies to allow for increased efficiency of CVO; and the development of a GIS-based asset management platform. The platform included initial inspection and rating based on FDOT maintenance rating factors and led to the prioritization of activities for scale facility repairs and the programming of projects into a 10-year cost feasible plan and five-year work program. In addition, this contract is leading further development of the database system which will provide increased tracking capabilities of freight movement, to ultimately include size, weight, bill of lading and permit tracking.								
11/18-01/20		in the management of protested commercial the Road Ranger Service Patrol to enhance u	vehicle citations, in s ser support and feed	is contract supported the development of an updated the citation tr support of the Review Board. HNTB provided website updates, including back. The TIM Strategic Plan and CVO business plan were developed undes such as the Road Ranger Service Patrol. The CVO Strategic Plan focus	the advancement of features on der the program. The TIM Strategic				



16. Staff I	16. Staff Experience							
Firm empl	Firm employed by: HNTB							
Name	Beth Kigel			Years of relevant experience with this employer	3			
Title	ITS National Pr	actice Consultant, Vice President		Years of relevant experience with other employer(s)	29			
Degree(s)	/ Years / Speci	alization	MBA / 1993 BSBA / 1990 / Finan	ce				
Active reg	gistration numb	er / state / expiration date	N/A					
Year regis	stered	N/A		Discipline	N/A			
Contract r	role(s) / brief d	escription of responsibilities	Emerging Technolo	gies				
the Chambe	er took on key st es ranging from t e dates	rategic initiatives and programs, contributing the ITS World Congress, automated vehicle sym Experience and qualifications relevant t	o improved economic posiums and chambe to the proposed cor	mber of Commerce, covering a 10 municipality region with 850 member prosperity in the region. As a thought-leader in smart city solutions, since of commerce to real estate and insurance organizations. Intract; i.e., "designed drainage", "designed girders", er the time specified in the applicable MPR(s).				
06/21-0nga	oing	lead for the task force process, public engag partnership with Cambridge Systematics ass of pre-planning work to lead and facilitate a provided input from environmental preserva resilience and emergency evacuation. HNTB	ement and smart infr isted FDOT District 1 v Task Force consisting tion and protection, o also conducted a pre	(M-CORES) Southwest-Central Corridor (SWCF), Collier County to rastructure for the M-CORES Southwest Central Florida Corridor. As own with the development of the M-CORES Program in the SWCF study area. In 647 local elected officials, environmental, community and transportate economic development, agriculture, technology, connected and autono diminary needs assessment and identified high-level planning pury the needs assessment, other previous studies, existing projects and the	ner's representative, HNTB in Phase 1 of the SWCF study consisted ation experts. Subject matter expert mous vehicles, electric vehicles, pose and need statements for the			
06/21-0ngo	oing		lan for AAM. This incl	udes providing context on the status and momentum of AAM at the sta	te level and nationally, establishing a			
2021-Ongoi	statewide steering committee, and developing policy, considerations, and implementation guidelines for both the state and localities.							



16. Staff	16. Staff Experience							
Firm empl	Firm employed by: HNTB							
Name	Greg Krueg	er		Years of relevant experience with this employer	7			
Title	ITS National Pr	actice Consultant, Vice President		Years of relevant experience with other employer(s)	20			
Degree(s)	/ Years / Specia	alization	MS / 1995 / Civil Eng BS / 1993 / Civil Eng					
Active reg	gistration numbe	er / state / expiration date	#6201047061 / Mich	igan / 10-27-2024; #133640 / Texas / 12-31-2022				
Year regis	stered	2000 (MI); 2019 (TX)		Discipline	Civil Engineering			
Contract i	role(s) / brief de	escription of responsibilities	Emerging Technolo	gies				
and techno	ology enhancemer all development, ce dates	nts for the original proof of concept facility. He deployment, operations and maintenance of IT Experience and qualifications relevant t	also served as the M S throughout the sta o the proposed cor	DOT) Southeast Michigan Connected Vehicle (CV) Test Bed where he over ichigan Department of Transportation's (Michigan DOT) program managate of Michigan. **ntract; i.e., "designed drainage", "designed girders", er the time specified in the applicable MPR(s).				
2021-Ongoi	ing	with automated transit service between the design, construction and implementation of a development of the design of all of the technology, central management system and development of a Systems Engineering Mana	ne Rancho Cucamong a tunnel connecting t iology elements asso d other components i igement Plan, Concep	chnology Tunnel, San Bernardino, California Task lead for the technology transit center and Ontario airport in southern California. HNTB is the the two sites and automated vehicle operations within the tunnel to prociated with the program including developing requirements for the vehncluding integrating those components into the overall tunnel manager of Operations, technology assessment and other documents that will station and testing technology components of the project.	vide service. Greg is leading the icle, infrastructure elements, statior ment system and is leading the			
03/20-0ng	O'Hare International Airport (ORD) Automated Vehicle Concept, Chicago, Illinois The Chicago Department of Aviation has embarked on a major world class expansion and modernization program to position ORD to meet the needs of the 21st Century. Like the work at Orlando International Airport, Greg developed an analysis including a background of the state of the industry, viable technologies and providers of automated transport for relative use cases, and concepts for the use of these technologies as an alternative to an Automated People Mover system. The evaluation included tunnel cross-sections and a geometric analysis of the AV corridor needed to connect the terminals.							
10/20-Ongo	oing	and responsibilities of various stakeholders, CSI Task Force is focused on a key public asse	rivate sector partner public acceptance, al et, the curb, and its e ts for data and curl	s. C-LAB is charged with developing recommendations for Miami-Dade (nd short- and long-term implementation strategies. It is also responsibl fficient use and management asset as demand grows for pickup and dr b management in support of both Miami-Dade County and the City of N	e for launching pilot projects. The op-off of both people and goods.			



16. Staff	Experience						
Firm employed by: HNTB							
Name	James "Jim	my" McDonald		Years of relevant experience with this employer	4		
Title	Senior Planner			Years of relevant experience with other employer(s)	21		
Degree(s)) / Years / Specia	alization	MS / 2018 / Busines BS / 2000 / Politica AA / 1998 / Political				
Active red	gistration numbe	er / state / expiration date	N/A				
Year regis	stered	N/A		Discipline	N/A		
Contract	role(s) / brief de	escription of responsibilities	Emerging Technolo	gies			
provided c	ritical leadership s y secretaries prov ce dates	supporting a \$150-million bond program. Throu iding support on critical issues, planning for fu Experience and qualifications relevant t	ughout his involveme uture scenarios, creat to the proposed co	nd Seaport offices on the FDOT Freight Plan and managing the Seaport with several state departments of transportation, he coordinate ting workable strategies and real solutions. Intract; i.e., "designed drainage", "designed girders", wer the time specified in the applicable MPR(s).			
(mm/yy-r 2021	mm/yy)	Atlanta Region Commission Freight Clusto	er Plans, Atlanta, G	eorgia Led the development of the Best Practices Report for the ations, freight and logistics trends, motor carrier and fleet elements.			
		practices for industrial development.	этенс от 110 аррис	ations, freight and logistics tremas, motor currier and freet el	con mountain and minovative land asc		
2020-2021		four developing riverports in the state. The status future year developments. Oversaw funding	study consists of fu opportunities, future	e, Kentucky Provided maritime and freight expertise to the KYT ture best uses, economic scenarios and prioritization of invest e needs analysis and led three virtual summits with more than 60 a	stment strategies for the current and		
2012-2020	and economic viability for expanding Kentucky's riverports. PDOT Freight Logistics and Passenger Operations Services, Tallahassee, Florida 2020 fiscal years. Examples include a freight data compilation with 30 years of statewide performance metrics for key freight and passenger analytics providing innovative trend analysis for FDOT's continual use on future studies and funding decisions. The primary assignment was a 2018 to 2020 Study of Ultra Large Vessels in a Post Panama Era at Florida Ports an expansion of the 2018 study presented at the 2019 Transportation Research Board (TRB) Annual Conference in Washington DC. This includes port berthing log data on vessel sizes between 2016 and 2019, and international trade with IHS Piers data to look at container trade with Pacific Rim region countries and Mediterranean Suez Canal region countries with Florida's major container ports. Assisted with work program process on the Strategic Port Investment Initiative and the Seaport Investment programs which together represent more than \$90 million in annual funding. In addition, led the development of seaport office maps and report layouts and organized graphic presentations for executive FDOT staff members, prepared publications and performed public speaking at FDOT and national events.						



16. Staff	16. Staff Experience							
Firm emp	Firm employed by: HNTB							
Name	Steve Bahlo	er, PE		Years of relevant experience with this employer	16			
Title	ITS Departmer	nt Manager		Years of relevant experience with other employer(s)	37			
Degree(s) / Years / Speci	ialization	Graduate Courses / BS / 1969 / Civil Eng					
Active re	gistration numb	er / state / expiration date	#64575 / Florida / C	02-28-2023				
Year regi	stered	2006		Discipline	Civil Engineering			
Contract	role(s) / brief d	escription of responsibilities	Standard Operating	Procedures				
ITS planning the past 10	ng, highway, envir) years, he has wo ce dates	conmental studies, urban freeway design, constituted on RTMC projects for the Florida, Minneso Experience and qualifications relevant t	ruction oversight, ard ta and Kansas Depart o the proposed cor	f experience encompasses a broad range of transportation program an chitecture and systems engineering for RTMCs, freeways, arterials and transportation, as well as for local agencies and authorities. htract; i.e., "designed drainage", "designed girders",				
(mm/yy-				er the time specified in the applicable MPR(s).				
02/16-11/19)	control device specifications and testing, Flo	rida's advanced traveral grant project co	he statewide TSM&O contract. Major work efforts include support for Sueler information system, ITS, managed express lanes, traffic signal system rept development and applications, training program development.	ems, statewide RTMC standard			
06/14-01/10	6	of task work order (TWO) scopes and fees, ov	verseeing home office evelopment of a TIM	pley, Florida Senior project manager for the District 3 TSM&O contrest and subconsultants providing services ranging from traffic signal strategic plan, TIM team support and training and development of a signal strategic plan, TIM team support and training and development of a signal strategic plan, TIM team support and training and development of a signal strategic plan, TIM team support and training and development of a signal strategic plan, TIM team support and training and development of a signal strategic plan, TIM team support and training and development of a signal strategic plan strategi	I timing and trouble-shooting,			
06/13-01/10	D6/13-01/16 FDOT TIM/CVO Support Services, Tallahassee, Florida Senior project manager supporting the FDOT TIM program, TIM training, TIM and CVO program outreach, pilot projects, road ranger service patrol support, and commercial vehicle information system network programs and projects. Assists FDOT with development of task work orders (TWOs) and management of TWOs including work accomplished by home office staff and four subconsultants, provides weekly and monthly progress reports, and performs quality reviews of TWO deliverables.							
06/10-06/1	11	FDOT I-75 Hybrid ITS Design, Tampa, Florida Senior ITS engineer and engineer-of-record for preliminary, final and post design for the ITS from Bloomingdale to Gibsonton in Hillsborough County, and at interchanges at CR 672 and SR 674 in Hillsborough County and CR 683 in Manatee County. ITS elements include fiber and wireless communication, CCTV and microwave vehicle detection systems (MVDS). Work included development of CCTV view and wireless "line of sight" verification.						
06/10-06/1	14		specifications. Wrote	Senior ITS engineer and engineer-of-record who developed technic the RTMC configuration management retrofit plan that will guide systemers and quick reference guide development.				



16. Staff	Experience				
Firm emp	oloyed by:	NTB			
Name	Victor Blue	, PE, PhD		Years of relevant experience with this employer	7
Title	Senior ITS Proj	ect Engineer		Years of relevant experience with other employer(s)	30
Degree(s)) / Years / Speci	alization	Ph.D / 1996 / Transp MS / 1973 / Transpo BS / 1969 / Electrica	oortation Engineering rtation Planning al Engineering	
Active red	gistration numb	er / state / expiration date	#79517 / Florida / 0	2-28-2023	
Year regis	stered	2015		Discipline	Professional Engineer, Electrical & Computer
Contract	role(s) / brief de	escription of responsibilities	Standard Operating	Procedures; Systems Engineering	
protection (ATCMTD g	is and safety mandrant). He has pror lick Parking Availal ce dates	agement. He has contributed expertise on seve noted systems engineering for FDOT by produc bility Systems, MCSAW, Mainline Bypass Truck W Experience and qualifications relevant 1	eral advanced federal cing templates for TSN VIM and the Freight Op to the proposed con	ation engineering, and simulation. Other key subject areas include d projects: the Tampa Connected Vehicle Pilot, Smart Columbus and P M&O documents. In ITS, he has contributed systems engineering to the peration Exchange software system for statewide truck data. htract; i.e., "designed drainage", "designed girders", er the time specified in the applicable MPR(s).	inellas Connected Communities
05/18-10/19	9	USDOT Smart Columbus Program,		or of the Data Privacy Plan and Safety Management Plan which in inagement, among others and also connected vehicle environment r	
09/15-0ng	oing	Measures, System Requirements, Compre	ehensive Developme	Vehicle Pilot Deployment, Tampa, Florida ent Plan and Phase II Project Management Plan and Data Privacy and Informed Consent Documents, liaison with IRB, Human Use Summe	
03/15-07/1					
03/21-07/2	reviews of TWO deliverables. FDOT MCSAW Program Support, Tallahassee, Florida Systems engineer supporting FDOT's MCSAW program, including planning; performance measures; specifications and standards; and telecommunications and networking. This contract works closely with other state agencies including the departments of Highway Safety and Motor Vehicles, Agriculture and Consumer Services and Revenue, as well as key industry partners such as the FTA. Specific tasks include facilitation of a strategic plan visioning session which brought together various FDOT departments, state agencies and industry stakeholders to collaborate. The session set the framework for future technology enhancements; the development and deployment of a fiber optic inter-connection plan to link all interstate weigh stations on a fiber optic network; the piloting of mainline screening technologies to allow for increased efficiency of CVO; and the development of a GIS-based asset management platform.				



16. Staff	16. Staff Experience							
Firm empl	Firm employed by: HNTB							
Name	Jess Baker,	, SEP		Years of relevant experience with this employer	6			
Title	Technology Se	nior Project Manager		Years of relevant experience with other employer(s)	17			
Degree(s)	/ Years / Speci	alization	BS / 2019 / Compute AA / 2012 / Engineer					
Active reg	gistration numb	er / state / expiration date	Systems Engineerin	g Professional / National				
Year regis	stered	2013		Discipline	N/A			
Contract i	role(s) / brief de	escription of responsibilities	Systems Engineerin	g				
hardware a systems, A Experienc	and data interface zure cloud hostin ce dates	es for out-of-the-box and custom software systems, asset and change management systems, fire Experience and qualifications relevant t	em of systems, such a ewall and network sys to the proposed cor	ning quality of service, administering and monitoring, developing and up as Tolls back office systems, SunGuide, PTZ video systems, ITS detectors stems, datacenter and virtualization systems, data and analytics system atract; i.e., "designed drainage", "designed girders", er the time specified in the applicable MPR(s).	, commercial freight and container			
06/06-07/2	"designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). Central Florida Expressway (CFX) Systems Management and Operational Support for ITS, IT and Tolling GEC, Statewide, Florida Senior technology project manager for the improvement of the Information System ecosystem at CFX for IT and tolling, also providing support for ITS systems as requested. Initiatives resulted in nearly two-dozen distinct projects and six full-time in-house staff augmentation personnel for boots on the ground system support. Designed and deployed custom tolling software, GIS, Azure Cloud services, Microsoft Business Intelligence for data analytics, Oracle and SQL Enterprise database systems, Cherwell change and configuration management, architecture and code reviews, Tolling analyst, application program interface (API) development for interagency system of systems with FDOT, the Greater Orlando Aviation Authority, and ITSWAN, section 508, Americans with Disabilities Act (ADA) and WCAG 2.0 (AA) web standards compliance as well as the development and administration of network and security systems.							
06/16-06/17	FDOT CVO, Tallahassee, Florida Technology project manager on various contracts, provided technical support for Freight Container Number Database (FCNDB), a component of the Commercial Vehicle Information System and Network. The FCNDB collects, monitors, and tracks information on the movement of freight and containers. The software determines if there are any overdue citations, validates PRISM target list, detects stolen vehicle and sends notifications to subscribing Troopers within the FHP. Detected vulnerability in system that exposed software files to the Internet. Carried out immediate incident response plan to secure files and close internet exposure.							
02/20-02/2	21	future projects and phases, technology dedge and fog computing as well as technology	ole data management eployments, respec gy were developed. A	lorida Technical lead for the four-part technical volumes that were a practices for the deployment of CAV projects. The memorandums focus tive CAV data types, uses and users . Best practices with data archite model corridor was analyzed and used to calculate sample storage require the acquisition of a V2X platform, which was advanced by FDOT thro	sed on identifying current and cture, data formats and storage, uirements for CAV data to assist			



16. Staff Experience									
	Firm employed by: HNTB								
Name	Jennifer Sc	hultz		Years of relevant experience with this employer	8				
Title	Public Involven	nent Director		Years of relevant experience with other employer(s)	8				
Degree(s)	/ Years / Specia	alization	BA / 2008 / Corpora	ate Communications					
Active regi	stration numbe	er / state / expiration date	N/A						
Year regist	ered	N/A		Discipline	N/A				
Contract ro	ole(s) / brief de	escription of responsibilities	Graphic Design						
faceted mar are effective	keting campaign e at generating in ripts, and collate e dates	is as well as regional education initiatives for p nterest and informing stakeholders, commuter ral materials on a variety of transportation top Experience and qualifications relevant t	rivate sector employ s, and strategic partroics. o the proposed cor	nications strategy, media relations, client service and advertising. She hers, federal and state agencies, non-profit organizations, and major transers. As an accomplished graphic designer and writer, she has produced attract; i.e., "designed drainage", "designed girders", er the time specified in the applicable MPR(s).	nsit providers. Her campaigns				
03/17-Ongoir	ng	Mobility Investment Program, Design-Build B communications strategic plan to educate	ridge program, and le and build stakeholde	iding programmatic communications to Georgia DOT for the Office of In egacy design-build-finance projects. Responsibilities include leading th er, community, and media support through video, digital, and traditional nications work, and oversee the communications program schedule and	e delivery of a comprehensive media strategies, garner positive				
07/17-Ongoin	ng	to the Office of Planning at MARTA for corrido	or/facility/joint devel es. Responsibilities in	danning IDIQ Atlanta, Georgia Communications lead providing component planning support services, general transit planning support serclude developing communications materials, providing strategic supplan.	vices, and transit-oriented				
04/16-04/17	FDOT TSM&O GEC, Statewide, Florida Delivered communications approaches for the integrated program optimizing performance of existing multimodal infrastructure. Responsibilities included writing, layout, strategy, and branding for the bi-monthly newsletter, annual report, grant proposals, and overall program communications.								
07/14-04/17		non-profit, federal and state agencies, and co	ity Standards. Respo ommuters on strateg lendars, and collate	nications specialist for this transportation planning project providing as insibilities include using Transportation Demand Management (TDM) to poies to reduce traffic congestion and improve air quality in the Metro Atlaral materials. Manage regional promotions and generate modern mark	provide services to private sector, anta region. Create and develop				



16. Staff Experience							
Firm empl	oloyed by:	NTB					
Name	Laura Picha	rd-Murphy		Years of relevant experience with this employer	4		
Title	Graphic Design	er, Writer, Photographer		Years of relevant experience with other employer(s)	30		
Degree(s)) / Years / Specia	alization	MS / 1993 / Art Adm BS / 1988 / Visual Co				
Active reg	gistration numbe	er / state / expiration date	N/A				
Year regis	stered	N/A		Discipline	N/A		
Contract r	role(s) / brief de	escription of responsibilities	Graphic Design				
booklets, d	directories, poster			and production experience to the table. Her creativity includes des conference promotions, registration materials, specialty items, logo			
Experienc (mm/yy-n				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).			
06/18-Ongo	oing	infrastructure. Responsibilities included writ communications. The project included FL511 presentation assets and refinement, manage	ring, layout, strateg I annual reports, FAV ed lanes maps, manag	tions approaches for the integrated program optimizing performar yy, and branding for the bi-monthly newsletter, annual report, summit presentation, TSM&O disseminator newsletter, wrong way of ged lanes reference book, Pensacola Bay bridge detour maps, PSTA rations support audit presentation, warranty presentation and a TS	grant proposals, and overall program Iriver tip card, wrong way driver sustainability plan diagrams, emergency		
3/17-Ongoir	ing		oment of training m	office, Statewide, Florida Communications and graphics lead for the laterials including presentation and coursework for inspection esentations for state and national seminars and events.	or the statewide weigh station program. staff. Supported working group "vision		
02/15-Ongo	Ongoing FDOT CVO/Traffic Incident Management, FDOT Central Office, Florida Communications and graphics lead for the statewide CVO/TIM program. In this role, provided support for the development of the business and strategic plans for each program. Developed TIM Responder bi-monthly newsletters which provides information on statewide incident management activities. Supported the quarterly Partnership Meetings for the ITD group meetings, which included representatives from Commercial Vehicle Enforcement, Department of Revenue and Department of Motor Vehicles. Provided presentation support for updates to FDOT leadership, state and national seminars and conferences.						
2/15-Ongoi	ing	Florida Department of Transportation (Fl initiatives. In this role, supported the develop TPAS, including grant development, public	oment of the Data Int	regrations Space, a platform which provided analytics for statewide	r in support of multiple statewide crash records. Provided support for the		



16. Staff E	16. Staff Experience							
Firm emplo	Firm employed by: HNTB							
Name	Alex Kavana	agh, PMP, PMI-ACP		Years of relevant experience with this employer	17			
Title	Technology Sec	ction Manager/Senior Technology Project Mana	iger	Years of relevant experience with other employer(s)	7			
Degree(s)	/ Years / Specia	alization	MA / 2001 / Urban Ir BA / 1994 / English	nformation Systems				
Active reg	istration numbe	er / state / expiration date		nt Professional: #2243800 Practitioner: #2597644				
Year regist	tered	PMP: 2018 PMI-ACP: 2019		Discipline	N/A			
Contract r	ole(s) / brief de	escription of responsibilities	Technology Program	n Management				
diverse skill programmir Material Des	l set which includ ng languages and sign, as well as su	les project management, web programming, da d web-based application frameworks. He is curr upporting applications built on Microsoft's .NET	eta visualization and a rently leading teams l stack, including ASP		ion. Alex has experience in various			
Experience (mm/yy-m				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).				
12/19-Ongoir	ng	deployment to provide multimodal mobility of	options to travelers to	ead responsible for design and development of a data hub and publi better utilize corridor/system capacities. The ConnectSmart Data Hub gested, cataloged, transformed into common formats, and analyzed via	provides a single source of truth			
12/18-Ongoir	ng	graphs showing predicted pavement perform	way maintenance an nance and remaining	Viewer, New Jersey Development lead of a web-based application d resurfacing, planning, and contract programming. This application service life on both the Turnpike and Parkway. Users have access to vie ata. The application uses the Esri ArcGIS JavaScript API along with Angu	n provides users with interactive w segment level cost estimates and			
2018-2019	NJTA, Traffic Count Application, New Jersey Automatic Traffic Recorder (ATR) data, manually collected traffic counts, toll count data, real-time (Sensys) traffic detection data, as well as historical traffic count data. The application uses a JavaScript framework called D3.js to create network line diagrams on-the-fly showing all traffic volume at ramps and exits. Users run ad-hoc queries and pre-formatted reports against the entire set of data. The application replaces a legacy system developed over many years and a mathematical model that had grown too burdensome to support and maintain.							
12/11-Ongoin	ng	including ConOps, System Requirements (3) development of a common payment system of Columbus, stakeholders and the USDOT, and services to the City of Columbus for the USDOT.	SyRS) and Interface to pay for transporta he is responsible for OT Smart City Challen	In Initialization, Columbus, Ohio Technical lead for the development (Control Document (ICD) for projects ranging from multimodal trip position related services. In his capacity as technical lead, Alex also serves facilitating outreach among various stakeholder groups. HNTB is providinge. Smart Columbus will deploy a wide spectrum of technology based control to the City of Columbus a model for other cities across the U.S.	lanning and event parking to as a liaison between the City of ing ITS program management			



16. Staff	16. Staff Experience							
Firm emp	Firm employed by: HNTB							
Name	Charles Koo	once, PE		Years of relevant experience with this employer	4			
Title	Traffic Operati	ons Department Manager		Years of relevant experience with other employer(s)	27			
Degree(s)) / Years / Speci	alization	BS / 1994 / Civil Eng BA / 1988 / History	ineering				
Active re	gistration numb	er / state / expiration date	#87785 / Texas / 12-	31-2022				
Year regi	stered	2001		Discipline	Civil Engineering			
Contract	role(s) / brief de	escription of responsibilities	ITS/Networking					
operations	s including ITS, tra		zone traffic control,	n, construction, operations and project management. His experience co signal warrants, speed zoning and access management. While serving in traffic engineering applications.				
Experience (mm/yy-i				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).				
08/18-0ng	oing		dentification structur	t's ITS MIP Update. He is providing support on other tasks under this wo re standard and template development, ITS asset inventory process and				
03/20-0ng	going			PAS project, the purpose of which is to design and deploy ITS infrastr tion and Congestion Management Technologies Deployment (ATCMTD) g				
02/20-0ng	TxDOT Weigh-in-Motion and Vehicle Classification Statewide Strategic Plan, Statewide, Texas ITS support for this project meant to support the State Transportation Planning Division by developing goals and objectives, assessing the existing conditions of the statewide system, identifying the needs/gaps in this system, developing a data use case/business plan and developing an incremental deployment (short-, mid-, and long-term) as well as a strategic plan to upgrade and enhance the system.							
2013-2016		detail sheets and ITS specifications. Led to the Department's website for statewide use (boxes, fiber optic cable, networking ITS comm	he development of ov (currently in use). Spe munications cable, CC eliverables, scope dev	exas Served as TxDOT project manager for consultant contract for the ver 40 ITS standard detail sheets and over 10 ITS technical specification edifications and standard details included requirements for ITS pole, ITS CTV equipment, media converter, ITS radio equipment. Responsible for a velopment, negotiating fee, invoice approval, tracking expenditures, and	s that were issued and posted on cabinets, ITS conduit, ITS ground all aspects of managing the contract			



16. Staff	Experience						
Firm emp	loyed by:	INTB					
Name	Charles "C	huck" Miller, PE, PTOE, PhD		Years of relevant experience with this employer	36		
Title	Senior Project	Manager		Years of relevant experience with other employer(s)	0		
Degree(s)) / Years / Spec	ialization	PhD / 1999 / Civil Eng MS / 1990 / Civil Eng BS / 1985 / Civil Eng	gineering			
Active red	PE: #31994 / Louisiana / 03-31-2024; #137456 / Texas / 12-31-2022; #11846 / Kansas / 4-30-2023; #2002000606 / Missouri / 12-32022; #18604 / Iowa / 12-31-2022 PTOE: National						
Year regis	stered	2005 (LA); 2020 (TX); 1990 (KS); 2002 (MO); 20	(AI) 800	Discipline	Civil Engineering		
Contract	role(s) / brief d	escription of responsibilities	ITS/Networking				
traffic ope	rations analysis, ent implementati	ITS, travel demand modeling and traffic signal d	lesign. From May of 19	ange of transportation planning and traffic engineering projects. Speci 998 through June of 2001, Dr. Miller worked full-time with the Tennessec sity. ITS experience over the three-year period ranged from strategic pla	Department of Transportation on		
Experience (mm/yy-r				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).			
12/19-Ongc	ing		alifornia. The system eler information syst	Systems engineering lead for the four-state ATCMTD funded project i will monitor truck parking availability at 37 truck parking locations and ems (511) and third-party applications. For the project a concept of ope ing developed.	d provide the availably information		
04/19-0ng	O4/19-Ongoing Iowa DOT I-74 Bridge ITS Construction Engineering and Inspection, Bettendorf, Iowa Overseeing installation of fiber optic cables, fiber optic cable splicing and terminations and installation of ITS devices. Services being provided includes monitoring of contractor work, quantity tracking and collection of as-built information. The biggest challenge on the project was coordination with the contractor's schedule given their reliance on bridge construction being completed.						
11/18-07/19		KDOT Kansas Statewide CAV Vision Plan, Statewide, Kansas Project engineer that assisted in developing a vision plan that will allow the state of Kansas to maximize the benefits from the CAV evolution in transport. The project coordinated through workshops with state agencies and legislative leaders.					
11/17-03/19		MAASTO Regional TPIMS Kansas Deployment Design, Statewide, Kansas Project manager and lead ITS designer for the design of the TPIMS deployment in along the I-70 and I-135. The project deployed cameras at 22 rest areas to monitor truck parking availability. It also deployed hybrid static/dynamic roadside signs at 19 locations across the two corridors. For the rest area and sign locations, fiber optic network connections were designed. At the rest areas, power for operation of the cameras and network gear was obtained from the existing rest areas buildings. Power service for the signs was coordinate with local electric utilities.					



16. Staff Experience							
Firm employed by: ARCADIS							
Name	Paul Hsu, Pl	E		Years of relevant experience with this employer	6		
Title	Senior ITS Desi	gn Engineer		Years of relevant experience with other employer(s)	13		
Degree(s)	/ Years / Specia	alization	BS / 2002 / Electrica	al and Computer Engineering			
Active reg	istration numbe	er / state / expiration date	#35983 / Louisiana	/ 03-31-2023			
Year regis	tered	2011		Discipline	Electrical Engineering		
Contract r	ole(s) / brief de	scription of responsibilities	ITS/Networking				
as perform project sch reviewing s Experienc (mm/yy-m	ing systems engir ledules, traffic ma shop drawings, as- le dates nm/yy)	neering analysis (SEA) for over 15 complex ITS progressions and LADOTD built drawings and RFIs. Other certifications in Experience and qualifications relevant t	projects. He has a we constructability/bid clude: ATSSA TCS, TC o the proposed cor	evices, communication systems, video systems, electrical systems, traff alth of design experience in developing plans, specifications, special pro dability reviews. In addition, his experience also includes providing cons T, Flagger. htract; i.e., "designed drainage", "designed girders", er the time specified in the applicable MPR(s).	ovisions, construction estimates,		
06/18-10/19		their respective areas to complete a highly c I-10 eastbound from LA-77 to I-110. The analys within the project area. In addition to develo	omplex and first of it sis developed short, n ping the operational ed Queue warning des	Project manager who led a comprehensive team of ITS, traffic, data, and s kind ITS SEA involving the evaluation of a Queue Warning system for a nedium, and long-term options to provide a comprehensive approach in concept, physical architectures, and alternative analysis configuration, sign alternative analysis, communication system integration, electrical states.	frequently congested corridor on enhancing the traveler's safety the Arcadis team also provided		
04/19-02/20	D4/19-02/20 LADOTD Video Distribution Management System Replacement SEA, Statewide, Louisiana Project manager who utilized the SEA process to evaluate various replacement options for the current video distribution management system (VDMS) in order to provide necessary system upgrades. Five different products and three different hosting solutions were evaluated to gain insight on available technology. Led the team to develop a list of needs and system requirements that was used to compare the different products across several categories in detail. The selected concept consisted of a hybrid-hosted system which combined the benefits from the local and cloud-hosted solutions and represented the most value for LADOTD.						
10/17-Ongoi	ing	design, construction, installation, and int ITS field devices within the project. A short c subsequently developed and submitted to FD conduits, conductors and cables, pull boxes, implementation of each ITS devices and desi	egration of a new I7 ircuit and protection 100T. The design of ele surge protection dev gning the system to 6	reminole County, Florida ITS and electrical design engineer for this responsible to the formula of the formula	FDOT ROW to power the proposed a power system design report was UPS, power distribution units, and electrical analysis for the fficient capacity for current and		



16. Staff Experience								
Firm emp	Firm employed by: ARCADIS							
Name	Luis Alverg	jue, PE, PhD		Years of relevant experience with this employer	6			
Title	ITS Engineer			Years of relevant experience with other employer(s)	1			
Degree(s)	/ Years / Speci	ialization	PhD / 2013 / Electrical Engineering MS / 2008 / Electrical Engineering BS / 2004 / Engineering					
Active reg	gistration numb	er / state / expiration date	#42598 / Louisiana	/ 09-30-2022				
Year regis	stered	2018		Discipline	Electrical Engineering			
Contract	role(s) / brief d	escription of responsibilities	ITS/Networking					
				ms engineering. In addition, he is experienced as a project engined e measure reporting, traffic video distribution management, and w				
Experience (mm/yy-r				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).				
05/21-0ngc	bing	duct bank and CCTV and DMS sites along a	a three-mile section o	S and electrical engineer who developed an SEA document for an I of I-10 in Baton Rouge. In addition, the SE Analysis identified and evo- communication system integration, electrical system design, rem	aluated smart work zone applications to			
10/17-Ongo	70/17-Ongoing FDOT Wekiva Parkway Section 6 ITS and Electrical Design Buil,d Lake and Seminole County, Florida ITS and electrical engineer for this design-build project involves the design, construction, installation, and integration of a new ITS deployment and electrical power distribution system within the FDOT ROW to power the proposed ITS field devices within the project. A short circuit and protection coordination study was conducted for the designed power system and a power system design report was subsequently developed and submitted to FDOT. The electrical power system include disconnects, transformers, power meters, UPS, power distribution units, conduits, conductors and cables, pull boxes, surge protection devices, grounding systems, and lightning protection system. Also performed electrical analysis for the implementation of each ITS devices and designing the system to ensure that every field site meets the electrical code while providing sufficient capacity for current and future demands. Other tasks of the project also include conducting voltage drop calculations, coordinating with multiple electrical utility companies, preparing quantities and cost estimates, and preparing plans and specifications.							
01/21-10/21		GDOT SR 16 at Higgins Road, Atlanta, Georenvironmental concerns due to the roundable	rgia Electrical enc out being near a histo	gineer who prepared lighting plans for a roundabout on SR 16 and oric location and followed the Illuminating Engineering Society of N , luminaire specifications, electrical design to ensure voltage drop	lorth America (IESNA) guidelines and			



16. Staff E	Experience							
Firm emplo	oyed by:	NTB						
Name	Malcolm To	matani, PE		Years of relevant experience with this employer	7			
Title	ITS Project Eng	ineer		Years of relevant experience with other employer(s)	15			
Degree(s)	/ Years / Specia	alization	MS / 1997 / Civil Eng BS / 1989 / Electrica					
Active regi	istration numbe	er / state / expiration date	#0402049926 / Viro 06-30-2023	ginia / 02-29-2024; #65465 / Florida / 02-28-2023; #C60908 / California /	12-31-2022; #E16902 / California /			
Year regist	tered	2012 (VA); 2006 (FL); 2000 (CA-Civil); 2003 (CA	A-Electrical)	Discipline	Professional Engineer (VA) Civil and Electrical (FL, CA)			
Contract role(s) / brief description of responsibilities			Weigh in Motion	Weigh in Motion				
				e in transportation engineering with a focus on ITS design, electronic tol civil and electrical engineering who has worked on many large-scale pro				
Experience (mm/yy-m				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).				
02/18-Ongoi	ing	was part of the FDOT MCSAW Program Suppo activities for scale facility repairs and the pro	tation . This systems rt project which inclu ogramming of projec	Lee, Florida Project engineer responsible for project plans, specific management approach incorporates the implementation of a mainline uded initial inspection and rating based on FDOT maintenance rating fact ts into a 10-year cost feasible plan and five-year work program. In additing tracking capabilities of freight movement, to ultimately include size, we	WIM screening station. This project tors and led to the prioritization of on, this contract is leading further			
05/15-12/21								
05/15-12/21								



16. Staff I	16. Staff Experience							
Firm empl	Firm employed by: HNTB							
Name	Fabian Kala	pach, PE		Years of relevant experience with this employer	14			
Title	Senior Electrica	al Engineer		Years of relevant experience with other employer(s)	29			
Degree(s)	/ Years / Specia	alization	BS / 1978 / Electrica	l Engineering				
Active reg	jistration numbe	er / state / expiration date	#58100 / Texas / 06	-30-2022				
Year regis	tered	1985		Discipline	Electrical/Computer			
Contract r	role(s) / brief de	escription of responsibilities	Weigh in Motion; An	cillary Devices				
	sition, air pollution s. e e dates	n monitoring, PS&E preparation, construction in Experience and qualifications relevant t	nspection and mainte o the proposed cor	trol, electrical safety and equipment protection systems, power generate nance. He has experience in SAS, Oracle, Visual C++, and Basic and assestract; i.e., "designed drainage", "designed girders", er the time specified in the applicable MPR(s).				
11/20-10/21	4117	LADOTD LA 1 Phase 2, Leeville to Golden N Leeville. Provided the design of toll, ITS and of Unique design requirements were that all ele construction project. The scope of this project near Golden Meadow. The T-intersection has Performed field investigations, developed de	Meadow, Louisiana electrical power cond ements to be designed ct is to provide a new a stem that consist o tailed construction p	Toll, ITS and electrical power design engineer for the new LA 1 briuit systems. This included the design of power for 15 miles for ITS and to do to handle 180 mph winds. This project included design services for the two-lane bridge from Leeville to Golden Meadow that includes an inters of a two-lane, two-way urban arterial roadway that connects existing LA lans conforming to LADOTD design guidelines and standards.	oll systems along the LA1 bridge. \$450-million bridge and roadway secting T-intersection bridge 1 to the new LA1/LA3235 bridge.			
08/16-11/16		control device specifications and testing,	Florida's advanced to	this statewide TSM&O contract. Major work efforts include support for Staveler information system, ITS, managed express lanes, traffic signal syment, TSM&O mainstreaming and reports, connected vehicles, and infor	ystems, federal grant project			
Metropolitan Transit Authority of New York - Bridges and Tunnels Design Services for Project AW-X3, Structural Health Monitoring Plan and WIM System, New York, New York Fabian provided ITS and electrical engineering for AW-X3. This was initiated to provide design services for the identification of elements that need monitoring, to provide recommendations for the appropriate Structural Health Monitoring and WIM systems. The project also identified and proposed integration opportunities for both systems to work with each other and existing monitoring systems at each of the Authority's nine facilities: Verrazza- no-Narrows Bridge, Robert F. Kennedy Bridge, Throgs Neck Bridge, Bronx-Whitestone Bridge, Marine Parkway Bridge, Cross-Bay Bridge, Queens-Midtown Tunnel and Hugh L. Carey Tunnel. HNTB was responsible for all WIM-related aspects of this project.								
07/17-05/20		TxDOT I-10 ITS Design, El Paso, Texas Pumber units the District expected to use an		of fiber duct bank, fiber layout, CCTVs and DMS'. Resulted in reduced ccess roads.	design costs of RVSDs by reducing			



16. Staff E	Experience					
Firm empl	oyed by:	NTB				
Name	Mark Dunth	orn		Years of relevant experience with this employer	4	
Title	Software Progr	ram Manager, Associate Vice President		Years of relevant experience with other employer(s)	15	
Degree(s)	/ Years / Speci	alization	BS / 1983 / Physics			
Active reg	istration numb	er / state / expiration date	N/A			
Year regis	tered	N/A		Discipline	N/A	
Contract r	ole(s) / brief de	escription of responsibilities	Data Management/	Exchange		
Scrum meth	Mark is a software engineer with 19 years of experience specializing in the design, implementation, and support of complex transportation systems. Software prophecies include development using Agile, Scrum methodologies; programming languages include C/C++, Java, Python, C#, Go. Data analytics with Python; relational databases including MySQL, Oracle, and MSSQL; NoSQL databases including MongoDB and Cassandra; Unix and Windows system administration.					
Experience (mm/yy-m				ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).		
O1/19-Ongoing FDOT MCSAW Program Support, Tallahassee, Florida Technology project manager working alongside the Department's staff providing support in the developmen statewide data management and analytics. In this role, Mark worked closely with the MCSAW staff and the software vendor responsible for the operations software in development of a centralized data repository and reporting system. The Freight Operations eXchange (FOX) system leverages a secure statewide wide area network of fib optic communication to share data between 20 interstate weigh stations and the Central Office in near real-time. FOX sets the groundwork for advanced analytics to suppart additional criteria, including the verification of hours of service based on prior vehicle records and future bypass algorithms based on prior sightings, verification status compliance. The system is designed to support downstream use cases internal to the FDOT through secure user access. To increase the efficiency of national freight mob and safety, an interstate data exchange platform is being developed based on FOX and currently a memorandum of understanding between Florida and Georgia is in place.					e for the operations software in the atewide wide area network of fiber rk for advanced analytics to support ior sightings, verification status and efficiency of national freight mobility	
04/18-Ongo						



16. Staff	Experience						
Firm emp	loyed by:	NTB					
Name	Clay Packar	rd, PE		Years of relevant experience with this employer	1		
Title	Principal Engin	еег		Years of relevant experience with other employer(s)	16		
Degree(s)) / Years / Speci	alization	MS / 2005 / Comput BS / 2005 / Comput				
Active red	gistration numbe	er / state / expiration date	#73014 / Florida / 0	2-28-2023			
Year regis	stered	2011		Discipline	Electrical & Computer		
Contract	role(s) / brief de	escription of responsibilities	Data Management/	Exchange			
Experience (mm/yy-r	ce dates		to the proposed cor	ntract; i.e., ''designed drainage'', ''designed girders'', er the time specified in the applicable MPR(s).			
Experience	ce dates mm/yy)	Experience and qualifications relevant t "designed intersection", etc. Experienc FDOT TIM/CVO GEC, Tallahassee, Florida the container number database system for	to the proposed cor e dates should cov Full stack systems or the CVO program		mmercial vehicles are detected at weigh		
		Board. HNTB provided website updates, inclu Plan and CVO business plan were developed	ding the advancemer under the program. T	nt of features on the Road Ranger Service Patrol to enhance user s the TIM Strategic Plan included focus on increased safety through o and mobility though partnership and technology deployments.	upport and feedback. The TIM Strategic		
2017-2021			data dictionary for tr	pment, Sanford, Florida Software engineer who developed are affic signal controllers, and other data sources making data availal owered dashboards.			
2019-2021		FDOT TSM&O GEC, Bartow, Florida SunGuide® and software engineering consultant who developed and deployed systems responsible for data collection and analysis of SunGuide® transportation information as input into the performance measures program for the District 1 TSM&O program. The D1WatchDogg programs automatically emails FDOT's partner signal maintaining agencies when detectors are detected to have a malfunction based on statistical analysis of split terminations.					
2018-2019			n commercially availa	th Carolina Traffic engineer/data scientist who designed and able traffic probe data to support NCDOT's planning and project inv			



16. Staff	Experience						
Firm empl	loyed by:	NTB					
Name	Janelle Vers	snick, GISP		Years of relevant experience with this employer	4		
Title	Geospatial Deve	eloper/Data Scientist		Years of relevant experience with other employer(s)	13		
Degree(s)	/ Years / Specia	alization	MS / 2016 / Geograp BS / 2004 / Environ	phic Information Systems mental Studies			
Active reg	jistration numbe	er / state / expiration date	Certified Geographi	c Information Systems Professional #90465 / National / N/A			
Year regis	stered	2015		Discipline	N/A		
Contract r	role(s) / brief de	scription of responsibilities	Dashboard/Reporting	ng			
	vith billions of doll ce dates	ars of policy and exposure. Experience and qualifications relevant t	to the proposed cor	plications, as well as writing code in python and R code that analyzed m itract; i.e., "designed drainage", "designed girders", er the time specified in the applicable MPR(s).	Illiions of pieces of data for a		
03/19-Ongo		FDOT Chief Engineer Support Consultant, insight into various safety measures. The init Operations Office and the districts. The DIS w leadership insight into program and project	Tallahassee, Florida tial views were a colla vill serve as a "one-st prioritization. The init	a GIS analyst who led the development of the data integration sp aborative effort involving staff from the Safety Office, the vital few safet op shop" for analyzing various information from data sets across the de tial DIS efforts include views into crash data for the emphasis areas defi ety Improvement Program (HSIP), by leveraging data from the Crash Analysis	ty leads, the Traffic Engineering and epartment and will provide FDOT ined by the Strategic Highway Safety		
11/18-05/19		FDOT District 3 GEC, Chipley, Florida G		on Systems (GIS) Analyst who created a dashboard that provided Dist metrics included totals for signal status (operational/flashing/dark) and			
09/18-12/21		FDOT TSM&O GEC, Tallahassee, Florida GIS analyst who created a series of geographic information system (GIS) dashboards for use in traffic monitoring and analysis. The dashboards include SunGuide® Volume, Speed and Crashes, Telemetered Traffic Monitoring Site (TTMS) Volume and Speed, and percentage of level of service for emergency shoulder use corridors. The TMA dashboards required significant data coordination, development and processing to receive real time and rolled up data from SunGuide® and TTMS sensors.					
12/18-01/22		FDOT Web Application for CAV Initiative, 1 application for the purposes of delivering pro		Developed draft custom JavaScript web application for FDOT CAV proublic. Project includes jQuery animation and responsively designed gra			





17. Firm Experience								
Firm name	HNTB	Past Po	erformance Evaluation Discipline(s	Data Collection, Environmental, ITS, Planning, Road, Traffic, Other				
Project name	FDOT MOTOR CARRIER SIZE	AND WEIGHT GEN	NERAL	CONSULTANT	NSULTANT Firm responsibility (prime or sub?)		Prime	
Project number	C9U04			Owner's name	Florida Department of Transportation			
Project location	Statewide, Florida			Owner's Project Manager	Paul Clark			
Owner's address, ph	one, email	605 Suwannee Stree	eet Tallahassee, Florida / 850-410-5540 / <u>paul.clark@dot.state.fl.us</u>					
Services commenced by this firm (mm/yy) 03/17				Total consultant contract cost (\$1,000's)			\$5,000	
Services completed	Services completed by this firm (mm/yy) 03/22			Total consultant services provided by this firm (\$1,000's) \$4,100			\$4,100	

CONTRACT NO: 4400023812

HNTB provided support to FDOT Motor Carrier Size and Weight (MCSAW) division of the Office of Maintenance through a general engineering consultant contract. Under this contract, HNTB provided full program support, including strategic planning, project development, deployment, testing, configuration, integration, and maintenance for the static, WIM and VWIM scales throughout the state.

HNTB developed the MCSAW Business Plan as a collaborative effort with FDOT offices, partner agencies including Florida Highway Safety and Motor Vehicles (FLHSMV), Florida Highway Patrol Office of CVE (FHP/CVE), Florida Department of Agriculture and Consumer Services (FDACS), and the commercial vehicle industry, as represented by the Florida Trucking Association (FTA). The Business Plan supported and provided continuity between various FDOT plans, including the Florida Transportation Plan, the Freight Mobility and Trade Plan, the Commercial Vehicle Operations Business Plan, the Motor Carrier System Plan and the Transportation Systems Management and Operations Strategic Plan.

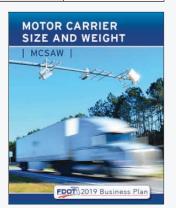
To support the mission of increased safety and mobility of Florida's roadway system, **HNTB supported MCSAW in the design and deployment of mainline WIM to complement the static and ramp WIM at the 20 interstate locations.** The measurement devices will be supplemented with license plate recognition and USDOT cameras for additional screening against the Federal Motor Carrier Safety Administration (FMCSA) Performance and Registration Information Systems Management (PRISM) program as well as FDOT maintained permit and partner agency credential databases.

The goal of this deployment serves several strategic tactics of increasing the safety of the roadway network by reducing the number of exit and entrance movements into the weigh stations. This improves the mobility of commercial vehicles by allowing them to bypass the static scale.

HNTB created the Freight Operations Exchange (FOX) which serves as the data clearinghouse for the MCSAW network. FOX provides connectivity between the various weigh station facilities, field devices, and partner agencies. One primary functionality of FOX that improves safety and enhances mobility is the interconnection of weigh stations and the sharing of data between them through the dedicated fiber optic connections for MCSAW.

Florida Weigh Station Design and Rehabilitation Locations by Corridor									
1-10	I-75	I - 95	I-4						
Pensacola	White Springs	Yulee	Seffner						
(Mile 4 - Escambia County)	(Mile 450 - Hamilton County)	(Mile 376 - Nassau County)	(Mile 13 - Hillsborough County)						
Sneads	Wildwood	Flagler							
(Mile 155 - Jackson County)	(Mile 339 - Marion County)	(Mile 286 - Flagler County)							
Madison	Punta Gorda	Martin							
(Mile 263 - Madison County)	(Mile 160 - Charlotte County)	(92/112 - Martin County)							

Key Staff: Craig Toth, Derek Barrs, Malcolm Tomatani, Pradeep Rao, Steve Bahler, Victor Blue, Mark Dunthorn, Mike Williamson and Rakesh Sharma



17. Firm Experience								
Firm name	HNTB		Past Po	Past Performance Evaluation Discipline(s)		Data Collection, ITS, Planning, Other		
Project name	TXDOT WIM AND VEHICLE CLASSIFICATION STA			DE STRATEGIC PLAN	Firm responsibility (prime or sub?) Prime		Prime	
Project number	50-8IDP5002	50-8IDP5002			Texas Department of Transportation			
Project location	Statewide, Texas			Owner's Project Manager	David Freidenfeld			
Owner's address, pho	one, email	125 East 11th Street A	Austin, Texas 78701 / 512-486-5064 / david.freidenfeld@txdot.gov					
Services commenced by this firm (mm/yy) 3/20			Total consultant contract cost (\$1,000's)			\$2,500		
Services completed by this firm (mm/yy) 7/22				Total consultant services provided by this firm (\$1,000's) \$1,700			\$1,700	

HNTB is currently leading the development of a WIM and Vehicle Classification statewide strategic plan for TxDOT's Transportation Planning and Programming (TPP) Division. TxDOT is responsible for over 80,000 miles of state-owned roadway and uses data collected from permanent WIM and vehicle classification devices for a variety of use cases including pavement design, bridge load ratings, air quality analysis, safety assessments, and freight planning. The strategic plan will help TxDOT identify gaps in data collection technology and regional site locations; maintain and enhance critical data collection for planning, design, operations, and maintenance; meet FHWA data collection requirements, and establish a sustainable WIM/vehicle classification data collection program that can accommodate future data and technology applications. Development of the WIM/vehicle classification strategic plan included:

- State of the Practice Assessment Reviewed peer state programs and best practices in addition to a detailed review of TxDOT program practices through stakeholder interviews and research.
- **Stakeholder Coordination** Coordinated closely with TxDOT divisions and districts throughout the state along with key partner agencies like the DPS, DMV, FMCSA, CBP, and the ITD Group to inform data needs and site selection.
- **Gap Analysis and Site Identification** Used a data-driven gap analysis and site identification process using an interactive GIS web tool that allowed key stakeholders to identify priority sites and run custom analysis scenarios based on a variety of datasets.
- Recommendations Developed detailed recommendations based on SMART Goals, Objectives, and Strategies that were identified through stakeholder input and industry best practices.
- Implementation Plan Identified near, medium, and long-term implementation timelines for each strategy with detailed implementation steps including cost estimates and responsible parties.

The strategic plan will provide TxDOT a detailed program road map to guide program planning, funding allocation, system expansion, and data management. In addition to meeting the needs of the TPP division, the recommendations outlined in the Strategic Plan also allow for program expansion in coordination with other TxDOT and partner agency technology including ITS, TSM&O, CAV and enforcement applications including mainline weigh station bypass and VWIM.

Key Staff: Craig Toth, Derek Barrs, Jeremy Upchurch, Adam Danczyk, Paula Dowell, Charles Farnham, Charles Koonce, Fabian Kalapach, Clay Packard, Janelle Versnick



17. Firm Experience								
Firm name	HNTB		Past Performance Evaluation Discipline(s)		Road, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right- of-Way, CPM, ITS, Other			
Project name	FDOT CHIEF ENGINEER GENE	RAL CONSULTAN	IT	Firm responsibility (prime or sub?)		y (prime or sub?)	Prime	
Project number	C9198			Owner's name	Florida Department of Transportation			
Project location	Statewide, Florida			Owner's Project Manager	Wendy Parrish			
Owner's address, ph	one, email	605 Suwannee Stree	eet, Tallahassee, Florida 32399 / 850-414-4581 / <u>wendy.parrish@dot.state.fl.us</u>					
Services commenced by this firm (mm/yy) 02/15				Total consultant contract cost (\$1,000's)			8,163	
Services completed by this firm (mm/yy) 05/22 (Est.)				Total consultant services provided by this firm (\$1,000's) 7,223			7,223	

HNTB provided support to FDOT through a GEC to support the Chief Engineer, Specific to this project, the following services were provided.

US 1 Plantation Key Weigh Station Rehabilitation: Provided **design for the rehabilitation of the static weigh station** located in the Florida Keys. This facility serves as the only location to enforce size and weight between the mainland of Florida and the Keys, located along US 1. The facility is a single scale serving both directions of traffic. The project included a pavement type selection report to evaluate the continued use of asphalt pavement versus concrete pavement, with life cycle cost analysis. Special design foundations for lighting upgrades were provided due to the dense and shallow bedrock associated with the area. Upgraded signing and pavement marking plans were provided. Extensive coordination was provided with utility owners as well as the environmental regulatory agencies with certification of no impacts for cultural, historical or environmental documentation. The design included plans, specifications and construction duration estimates. Post design services included review of shop drawings and final as-built plans.

US 17 (SR 20/SR 100) Palatka Weigh Station Design: This project provided **design for mainline WIM and VWIM** for the static arterial weigh station located in Putnam County, Florida. This location consists of a single static scale facility located in the median of US 17 and experiences heavy agricultural commercial vehicle. A WIM system was designed using quartz-piezo sensors to measure weight with



license plate recognition (LPR) and USDOT cameras to screen vehicles against out of service and safety scores. The mainline WIM was designed to provide for bypass of compliant vehicles to increase the efficiency of the scale. To capture trucks bypassing the scale facility, a VWIM site was also designed to capture weight, LPR and overview images for mobile enforcement. The design included electrical and communications infrastructure from the weigh station building to the mainline WIM locations for communication and integration. Electric service point details were designed in coordination with the local utility owner. Static signs with embedded dynamic message signs were designed for directing of vehicles to enter or bypass the scale facility, based on the WIM. The project included full plans design, specifications, technical specifications and construction duration estimates.

Statewide TPAS Deployment: HNTB served as the systems engineer for the deployment of an ITS solution for monitoring and providing the availability of parking at all public locations along Florida's interstate system. The project included the development of preliminary engineering plans, systems engineering documents, and certifications for ROW, environmental, utility and railroad clearance. The project was awarded a FAST Lane grant to supplement the state funding. The project was deployed as a series of design-build projects let by the geographic districts. The monitoring system consists of embedded sensors at the rest areas and welcome centers to monitor space occupancy. At the weigh stations, microwave vehicle detection system (MVDS) is used to monitor the entering and exiting vehicles to calculate availability. The sensor information is transmitted over fiber optic communication to each traffic management center where it is published to roadside dynamic message signs and the Florida 511 application and website for dissemination to drivers.

Key Staff: Craig Toth, Malcolm Tomatani, Pradeep Rao, Steve Bahler, Victor Blue, Mark Dunthorn and Rakesh Sharma



Weigh Station Bypass Locations

Franklin County: Weigh Stations 1 & 2

17. Firm Experience								
Firm name	HNTB Past			Performance Evaluation Discipline(s) Date		Data Collection, ITS, Planning	ata Collection, ITS, Planning, Other	
Project name	GDOT STATEWIDE WIM				Firm responsibility	responsibility (prime or sub?)		
Project number	N/A	N/A			Georgia Department of Transportation			
Project location	Statewide, Georgia			Owner's Project Manager	Daryl VanMeter			
Owner's address, pho	one, email	600 West Peachtree	NW, Atlanta, Georgia 30308 / 404-631-1900 / <u>dvanmeter@dot.ga.gov</u>					
Services commenced by this firm (mm/yy) 01/13				Total consultant contract cost (\$1,000's)			\$25,000	
Services completed by this firm (mm/yy) 12/16				Total consultant services provided by this firm (\$1,000's) \$25,000			\$25,000	

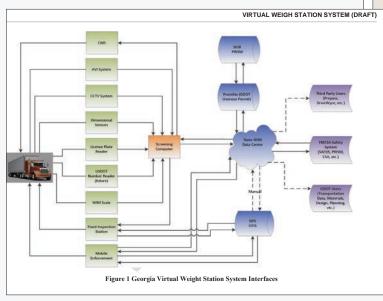
The GDOT statewide WIM project is designed to save money, reduce the amount of fuel used and reduce greenhouse gas emissions by minimizing the time that commercial vehicles have to wait at inspection stations. Time and money savings are a benefit for the trucking industry and the State of Georgia. The Georgia Motor Carrier Compliance Division benefits by using the mainline WIM scales as a primary method for prescreening vehicles, enabling them to better focus efforts at the weigh stations on inspecting trucks with potential size, weight, or safety issues

The WIM project includes the **design, development, construction, and integration of mainline WIM scales at all 19 weigh station** location within the state of Georgia. Web-based software will provide virtual weigh station functionality for each of the WIM scales. The project construction will be implemented in three phases. Once the project is operational, each mainline WIM scale will weigh every truck in its corridor, including PrePass and Drivewyze registered trucks. Should one of these trucks report over-weight or over-height or fail credential checks, the violator will be directed to exit by both the roadside signage and the in-cab transponder. All collected information will be stored in a database to be disseminated to numerous stakeholders. This data will assist GDOT with traffic monitoring, traffic volume and speed data collection, and monthly reporting to FHWA.

Project stakeholders include:

- GDOT's Office of Materials
- Office of Transportation Data
- Traffic Management Center (TMC)
- The Georgia Department of Revenue (DOR)
- The Georgia Department of Public Safety
- FHWA

Key Staff: Craig Toth, Charlie Farnham, Pradeep Rao





17. Firm Experience								
Firm name	HNTB			ast Performance Evaluation Discipline(s)		Road, Bridge, Data Collection, ITS		
Project name	NY MTA DESIGN SERVICES FOR PROJECT AW-X3, STRUCTURAL HEALTH MONITORING PLAN, AND WIM SYSTEM			RUCTURAL HEALTH	Firm responsibility (prime or sub?) Prime (JV Partner)			
Project number	N/A			Owner's name	Metropolitan Transit Authority of New York - Bridges and Tunnels (NY MTA)			
Project location	New York, New York			Owner's Project Manager	John Hinge			
Owner's address, pho	ne, email	2 Broadway, 24th Flo	oor, New York, New York 10004 / 646-252-7283 / <u>John.Hinge@mtacd.org</u>					
Services commenced by this firm (mm/yy) 08/09				Total consultant contract cost (\$1,000's)		\$3,100		
Services completed by this firm (mm/yy) 02/21				Total consultant services provided by this firm (\$1,000's) \$3,100			\$3,100	

Project AW-X3 was initiated to provide design services for the identification of elements that need monitoring, to provide recommendations for the appropriate Structural Health Monitoring (SHM) and WIM systems. The project also identified and proposed integration opportunities for both systems to work with each other and existing monitoring systems at each of the Authority's nine facilities: Verrazza- no-Narrows Bridge, Robert F. Kennedy Bridge, Throgs Neck Bridge, Bronx-Whitestone Bridge, Marine Parkway Bridge (MPB), Cross-Bay Bridge, Queens-Midtown Tunnel and Hugh L. Carey Tunnel. HNTB was responsible for all WIM-related aspects of this project.

Each facility was provided a detailed truck traffic analysis that was performed using multiple data sources such as New York State traffic data counters, E-ZPass/Toll databases, overweight permit application databases, overweight truck violation databases, and past WIM studies. This was followed by field visits and facility interviews to better understand the condition of the existing WIM inventory and additional WIM needs for each facility. Finally, recommendations were made for new WIM installations and their suggested locations based on a detailed cost-benefit analysis. A design brief document was prepared for each facility that contains all facility-specific findings and combined SHM and WIM recommendations.



In addition to the base scope of the project, evaluation of the available documents and in-place SHM and WIM sensors at the CBB revealed uncertainties regarding the dapped end corbels that support the drop-in navigation span. This resulted in a series of task orders to better understand the condition of these members. These task orders included the reactivation of the existing WIM and SHM systems, evaluating the structural performance of the dapped end corbels in their as-built condition using basic line girder and advanced strut-and-tie models, an in-depth, technology-assisted inspection, and repeating the structural analysis based on the inspection findings to evaluate the dapped end corbels in their as-inspected condition. The in-depth, technology-assisted inspection included use of ground penetration radar (GPR), digital photogrammetry, impact echo, and spectral analysis of surface waves (SASW) techniques.

Key Staff: Craig Toth, Derek Barrs, Mark Dunthorn

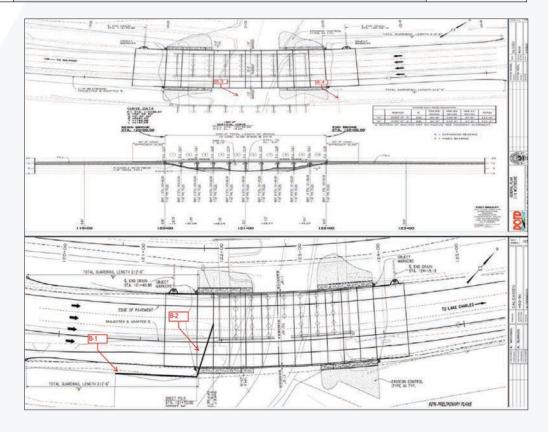


17. Firm Experience								
Firm name	APS Engineering and Testing	Past	Performance Evaluation Discipline(s) Geotech					
Project name	I-10 WEST OF LA 108 TO I-210) INTERCHANGE		Firm responsibility (prime or sub?) Prime		Prime		
Project number	H.009620		Owner's name	Louisiana Department of Transportation and Development		lopment		
Project location	Calcasieu Parish, Louisiana		Owner's Project Manager	Kristy Smith				
Owner's address, pho	one, email	1201 Capitol Access Rd., Ba	, Baton Rouge, Louisiana 70802-4438 / 225-379-1016 / <u>Kristy.Smith2@la.gov</u>					
Services commenced by this firm (mm/yy) 12/17			Total consultant contract cost (\$	Total consultant contract cost (\$1,000's)		N/A		
Services completed by this firm (mm/yy) 02/18			Total consultant services provided by this firm (\$1,000's)			\$54		

APS provided geotechnical investigation to provide LADOTD with the necessary information for planning and design a new interchange and widening the existing road. A total of four deep borings were completed. Over 50 atterbergs, hydrometer, and UU were tested with consolidation tests.

LADOTD also asked APS to accelerate the program to meet their bidding deadline. APS was successful to meet the deadline and was under budget to help keep the project on track.

Key Staff: Sergio Avile, Sai Ddanapudi

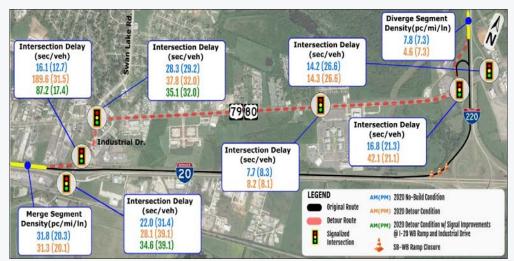




17. Firm Experience							
Firm name	ARCADIS	ARCADIS Past P			Performance Evaluation Discipline(s)		
Project name	·	DOTD 1-20/1-220 INTERCHANGE DESIGN BUILD TRANSPORTATION INAGEMENT PLAN AND TRAFFIC ENGINEERING SERVICES				y (prime or sub?)	Sub
Project number	H.003370			Owner's name	Louisiana Department of Transportation and Development		elopment
Project location	Bossier Parish, Louisiana			Owner's Project Manager	Corey Landry		
Owner's address, pho	ne, email	1201 Capitol Access F	Road, Baton Rouge, Louisiana 70802 / 225-379-1889 / cory.landry@la.gov				
Services commenced by this firm (mm/yy) 05/19			Total consultant contract cost (\$1,000's)		\$526		
Services completed b	y this firm (mm/yy)	Ongoing		Total consultant services provided by this firm (\$1,000's)			\$526

The purpose of the design-build project is to modify the existing interchange at I-20 and I-220 and provide additional ramps to allow direct access to the Barksdale Airforce Base (BAFB). Arcadis' responsibilities on this project are described as follows:

- Transportation Management Plan (TMP): Arcadis developed a Level 4 TMP which outlines work-zone strategies to minimize motorists delays without compromising safety or quality of work. The TMP included: Alternative Route Identification and Analysis, Public Information and Outreach Strategies, TMP Stakeholder Roles and Responsibilities, Allowable Lane Closure Times, Temporary Traffic Control Plans, and Work Zone Impact Management Strategies. Arcadis and the design team worked closely with LADOTD, District 04, and Bossier City to ensure that proposed strategies were feasible and context sensitive. The southbound I-220 to westbound I-20 ramp needed to be closed for several months to complete construction on the ramp and I-20 mainline. Arcadis evaluated the impacts of the proposed traffic detour along US 79/80 and developed temporary signal design and timing plans to accommodate the additional traffic.
- **Environmental Permitting:** Arcadis reviewed the Storm Water Pollution Prevention Plan (SWPPP) as part of the Louisiana Pollutant Discharge Elimination System (LDPES) permit application.



Alternative route analysis results used to develop mitigation strategies for the temporary closure and detour of the I-220 SB to I-20 WB ramp.

- Interchange Modification Report: During the proposal process, the design builder provided an Alternative Technical Concept (ATC), which required modification of the previously accepted IMR. Arcadis developed an addendum to the original IMR which detailed the impacts of the ATC with respect to traffic operations and safety.
- Permanent Signing Plans: Arcadis developed an updated signing layout and produced permanent signing plans to accommodate the proposed interchange modifications and additional access ramps.

Key Staff: Akhil Chauhan



17. Firm Experience								
Firm name	ARCADIS		Past Pe	Past Performance Evaluation Discipline(s)		ITS, Planning		
Project name	ADOTD STATEWIDE ITS RETAINER				Firm responsibility (prime or sub?) Prime			
Project number	4400008172			Owner's name	Louisiana Department of Transportation and Development			
Project location	Statewide, Louisiana			Owner's Project Manager	Rosalinda B. Deville			
Owner's address, pho	ne, email	1212 E. Highway Drive	e, Baton Rouge, Louisiana 70802 / 225-379-2523 / Rosalinda.Deville@la.gov					
Services commenced by this firm (mm/yy) 07/16			Total consultant contract cost (\$1,000's)		\$2,000			
Services completed b	Services completed by this firm (mm/yy) 03/22			Total consultant services provided by this firm (\$1,000's) \$2,000			\$2,000	

Through this retainer contract, Arcadis provided specialized and technically complex ITS SEA, integration and support services, independent verification and validation (IV&V) services, and developing technical specifications and cost estimates to support the LADOTD ITS program. The contract included the following task orders:

- CAV Technology Team Support: Arcadis provided technical support services and facilitating planning activities related to CAV integration and their impact on highway infrastructure for the department's CAV technology team. The purpose of the project is to keep LADOTD updated on industry trends while preparing Louisiana for the future of transportation. Arcadis also developed statewide CAV Strategic Plan as well as Autonomous Commercial Motor Vehicles Policy for LADOTD.
- Advanced Traveler Information System (ATIS) Integration Support: Arcadis assisted LADOTD to migrate from their ATIS 511 cloud-based software system that was launched in 2005 to a brand-new system with a significant number of upgrades. Arcadis provided integration expertise and technical support throughout the project implementation process, including contractor submittal reviews, RFI tracking and support, scope/design/configuration changes technical support, software deployment support, and system acceptance testing (SAT) support.
- Video Distribution Management System (VDMS) Replacement SEA: Arcadis conducted a SEA to replace LADOTD's existing VDMS and developed
 a suitable option which will enhance the management and distribution of LADOTD's traffic camera video feeds. The selected concept was a hybrid
 system which combined benefits from local and cloud hosting solutions and provided the most value for LADOTD.
- ATMS Upgrade Support: Assisted LADOTD in deploying a major upgrade to their existing ATMS. Arcadis provided technical support during project scheduling, data migration, data validation, software system integration, communication system, system testing, and redundancy failover setup.
- Engineering Design / Integration: Arcadis' role has been to provide systems engineering analysis and support for a variety of technically complex ITS projects. Through expert knowledge about complex ITS and attention to detail, Arcadis has contributed to the successful deployment of numerous ITS projects as well as to CAV capacity-building for LADOTD.

Key Staff: Akhil Chauhan, Paul Hsu, Luis Alvergue



LADOTD 511 ATIS User Interface



LADOTD CAV Technology Team



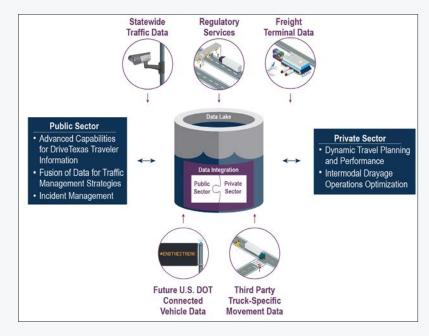
17. Firm Experience	17. Firm Experience							
Firm name	CAMBRIDGE SYSTEMATICS		Past Performance Evaluation Discipline(s)*		Planning, Data Collection, Traffic			
Project name	TxDOT FREIGHT NETWORK TE	CHNOLOGY AND OPER	RATIONS PLAN	Firm responsibility (prime or sub?)		Prime		
Project number	N/A		Owner's name	Texas Department of Transportation				
Project location	Statewide, Texas		Owner's Project Manager	Caroline Mays				
Owner's address, pho	one, email	PO Box 149217, Austin, Texas	tin, Texas 78701 / 512-936-0904 / <u>caroline.mays@txdot.gov</u>					
Services commenced by this firm (mm/yy) 04/19		04/19	Total consultant contract cost (\$1,000's)			\$1,718		
Services completed I	oy this firm (mm/yy)	01/21	Total consultant services provided by this firm (\$1,000's)		\$1,300			

Cambridge Systematics consulted for the Texas Department of Transportation to develop a technology and operations plan that would expand the existing Traffic Management System to focus on freight-specific user needs. Through close collaboration with stakeholders, this plan aims to develop advanced TMS strategies and Concept of Operations documents to identify opportunities for implementation.

Freight solutions included advanced traffic management solutions for arterial corridors, expanding real-time route guidance capabilities, and supporting advancements in automated truck technologies that currently operate on Texas roadways. This project aimed to identify real-world technological solutions that will help improve freight mobility in Texas and serve as a template for other states.

The plan was formally released in December 2020 and is currently being reviewed for implementation opportunities.

Key Staff: Paula Dowell, Adam Danczyk



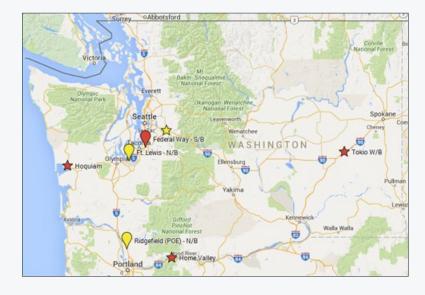
17. Firm Experience	17. Firm Experience								
Firm name	CAMBRIDGE SYSTEMATICS	Past P	erformance Evaluation Discipline(s	rformance Evaluation Discipline(s)		affic			
Project name	WSJTC EFFICIENCY AND EFF WASHINGTON STATE	ECTIVENESS OF WEIGH	STATION MANAGEMENT IN	Firm responsibilit	y (prime or sub?)	Prime			
Project number	N/A		Owner's name	Washington State Legislature Joint Transportation Commission		n Commission			
Project location	Olympia, Washington		Owner's Project Manager	Beth Redfield					
Owner's address, pho	ne, email	606 Columbia Street NW, No.	V, No. 105, PO Box 40937, Olympia, Washington 98504 / 360-786-7327 / <u>beth.redfield@leg.wa.gov</u>						
Services commenced by this firm (mm/yy) 07/15			Total consultant contract cost (\$1,000's)		\$120				
Services completed b	y this firm (mm/yy)	04/16	Total consultant services provided by this firm (\$1,000's)			\$120			

For the Washington State Legislature Joint Transportation Commission (WSJTC), Cambridge Systematics evaluated the efficiency and effectiveness of weigh station operations and management of capital assets in the State. The project included summarizing the Washington State commercial vehicle enforcement program and weigh station system, reviewing the effectiveness of the program with a focus on inter-agency responsibility and coordination, and identifying best practices for weigh station operations and management.

Cambridge Systematics developed recommendations that align with the policy goals established by the Washington State Legislature of economic vitality, preservation, safety, mobility, environment, and stewardship. The project included developing briefing-level materials suitable for a wide audience that could help improve awareness of and communication regarding the importance of the weigh station system to help meet these goals.

The study recommendations were presented to the Joint Transportation Commission and the Washington State Legislative Transportation Committees.

Key Staff: N/A





17. Firm Experience						
Firm name	CAMBRIDGE SYSTEMATICS	Past Po	erformance Evaluation Discipline(s)		Planning, Data Collection, Traffic	
Project name	TDOS CVISN VIRTUAL WEIGH	STATION STUDY		Firm responsibility (prime or sub?)		Prime
Project number	N/A		Owner's name	Tennessee Department of Safety		
Project location	Statewide, Tennessee		Owner's Project Manager	Douglas Brandon		
Owner's address, ph	one, email	1150 Foster Avenue, Nashville	, Tennessee 37243 / 615-354-4150 / <u>bra</u>	ndon.douglas@state.	tn.us	
Services commenced by this firm (mm/yy) 11/13			Total consultant contract cost (\$1,000's)		\$203	
Services completed	Services completed by this firm (mm/yy) 03/15			ed by this firm (\$1,0	00's)	\$203

For the Tennessee Department of Safety (TDOS), Cambridge Systematics conducted a study to evaluate commercial vehicle operations and forecast the future commercial vehicle operational environment in the State. Forecasts were made for five, ten, and twenty year time periods. Operations were compared to expected growth and a list of investment opportunities was identified. Cambridge Systematics assessed the previously identified technological investment opportunities and developed a comprehensive virtual enforcement network designed to meet the needs of fixed facility and mobile enforcement operations over a period of 20 years. The network focused on increasing the flexibility and efficiency of enforcement strategies. The final step included synthesizing the results into a concrete and implementable set of technological investment recommendations for supporting commercial vehicle enforcement operations over the next 20 years.

Key Staff: N/A

Tennessee VWS Investment Analysis Sketch Planning Tool **Outcomes Dashboard Existing Fixed Sites** Large Urban Areas **Outlying Areas by District** Scenario Summary TOTAL Coffee Giles Greene Haywood Knoz Robertson Chattanoog Knozville Nashville Memphis **Identified High Priority Needs** 45 Scenario-Selected Locations Scenario Benefits Scenario Name: Large Urban Existing Outlying Scenario Comments: Traffic Total Average Daily Truck Traffic 269701 Mean ADTT Per New Location 12843 Highest ADTT Location Lowest ADTT Location Crashes (3-year period) 40 **Total Fatalities** Total Incapacitating Injuries 116 380 Total "Other" Injuries 1488 Total Towaways **Network Coverage** Number of Districts Included Number of Border Counties *Does not account for multiple selections in the same county



17. Firm Experience:							
Firm name	ELOS BOY TO MENTO!		Past Performance Evaluation Discipline(s)		Environmental		
Project name	MOVEBR LEE DRIVE	OVEBR LEE DRIVE			Firm responsibility (prime or sub?)		Sub
Project number	N/A			Owner's name	East Baton Rouge Parish		
Project location	Baton Rouge, Louisiana			Owner's Project Manager	Thomas Stephens		
Owner's address, pho	ne, email	1100 Laurel Street, Ba	Baton Rouge, Louisiana 70802 / 225-389-3186 ext 5634 / Tstephens@brla.gov				
Services commenced by this firm (mm/yy) 05/21			Total consultant contract cost (\$1,000's)			\$22	
Services completed b	y this firm (mm/yy)	Ongoing		Total consultant services provided by this firm (\$1,000's)		00's)	\$22

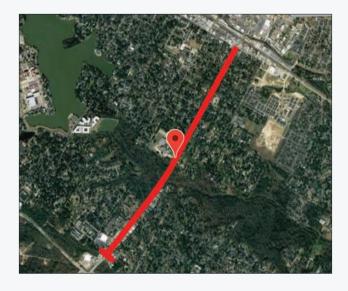
CONTRACT NO: 4400023812

ELOS was contracted to conduct a Phase I Environmental Site Assessment. ELOS' environmental scientist conducted research according to the American Society of Testing and Materials (ASTM) E1527-13 Standard Practice of Environmental Site Assessment: Phase I ESA Process to satisfy the All-Appropriate Inquiries (AAI) rule.

ELOS completed a review of environmental databases and historical documents including maps, aerials, city directories, and data provided by the client to determine if any current or past uses indicate the potential for past or current recognized environmental conditions (RECs). A site visit was performed to investigate the Subject Property for evidence of past or current RECs and document findings.

As this project evolves, ELOS will perform additional environmental services including wetland delineations and cultural resources investigations

Key Staff: Stehle Harris



17. Firm Experience							
Firm name	FORTE & TABLADA		Past Pe	Past Performance Evaluation Discipline(s)		Survey	
Project name	LADOTD RURAL BRIDGE REPI	DOTD RURAL BRIDGE REPLACEMENT INITIATIVE PHASE I				Firm responsibility (prime or sub?) Sub	
Project number	H.013954, H.013979, H.013985, H.013992	H.013954, H.013979, H.013985, H.013992, H.013994, and H.013995.			Louisiana Department of Transportation and Development		
Project location	Statewide, Louisiana			Owner's Project Manager	Valerie Tourres		
Owner's address, pho	one, email	1201 Capitol Access R	Road, Baton Rouge, Louisiana / 225-379-1292 / Valerie.Tourres@la.gov				
Services commenced by this firm (mm/yy) 08/20		08/20		Total consultant contract cost (\$1,000's)			\$6,600
Services completed	by this firm (mm/yy)	Ongoing		Total consultant services provided by this firm (\$1,000's)		00's)	\$587

Forte and Tablada was a subconsultant to provide the topographic survey for 17 bridges. While the project is ongoing in the design phase, Forte and Tablada has completed the topographic survey in accordance with LADOTD's Location and Survey Manual. The projects are currently in design and the anticipated Final Plans completion date is May 2022.

The largest challenges to overcome for this project were the bridge locations and the advanced schedule. Forte and Tablada was able to overcome these challenges with its communications software and utilizing multiple field crews and Professional Land Surveyors trained in LADOTD's location and survey field procedures and data collection protocols.

Forte and Tablada is also providing property surveys and right of way mapping as the need arises during the design process.

Key Staff: Ross Wilson; Bradley Holleman





17. Firm Experience	17. Firm Experience							
Firm name	FORTE & TABLADA		Past Pe	st Performance Evaluation Discipline(s)		Survey		
Project name	LADOTD LA 327 SPUR: STARI	ADOTD LA 327 SPUR: STARING LANE EXTENSION ROU			Firm responsibility (prime or sub?) Sub		Sub	
Project number	H.011684.5	H.011684.5			Louisiana Department of Transportation and Development			
Project location	East Baton Rouge Parish, Louisiana			Owner's Project Manager	Barrett Smith and Mark Hughes			
Owner's address, pho	one, email	1201 Capitol Access R	Road, Baton Rouge, Louisiana / 225-379-1292 / <u>barrett.smith@la.gov; mark.hughes@la.gov</u>					
Services commenced by this firm (mm/yy) 11/18		11/18		Total consultant contract cost (\$1,000's)			\$165	
Services completed I	by this firm (mm/yy)	Ongoing		Total consultant services provide	ed by this firm (\$1,0	00's)	\$165	

Forte and Tablada completed a topographic survey for this project which is located in East Baton Rouge Parish, between the intersections of La 42 (Burbank Dr.) and Staring Ln. and La 327 (Gardere Ln.) and La 30. A complete Topographic survey including all utilities with depths and all drainage was required, along with finish floor elevations of all buildings that fall within the survey limits. The topographic survey was performed under a topographic surveying retainer contract held by Forte and Tablada.

In December 2021, Forte and Tablada completed the title takeoffs and property survey for this project under a right of way mapping retainer contract. The property map consisted of conducting field and office analysis to determine the existing right of way and property lines in accordance with Louisiana's Standards of Practice to produce a set of property survey maps, according to LA DOTD specifications, for design.

Key Staff: Ross Wilson; Bradley Holleman





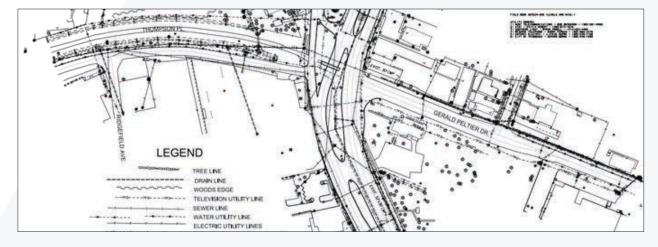
17. Firm Experience							
Firm name	GOTECH, INC. Committing Engineers		Past Pe	Past Performance Evaluation Discipline(s)		Data Collection, Planning, ITS, Survey	
Project name	ADOTD ACADIAN ROAD ROUNDABOUT, LA 20 (CANAL BOULEVARD) AND LOCAL ROUTES			AL BOULEVARD) AND	Firm responsibility	/ (prime or sub?)	Sub
Project number	4400004485; H.009320			Owner's name	Louisiana Department of Transportation and Development		lopment
Project location	Thibidaux, Louisiana			Owner's Project Manager	Mark Chenevert		
Owner's address, pho	one, email	1201 Capitol Access R	Road, Room 405-E, Baton Rouge, LA 70802-4438 / 225-379-1591 / <u>mark.chenevert@la.gov</u>				
Services commenced by this firm (mm/yy) 04/15			Total consultant contract cost (\$1,000's)			\$204	
Services completed I	oy this firm (mm/yy)	09/19		Total consultant services provided by this firm (\$1,000's)		\$195	

GOTECH, Inc. provided a complete topographic survey required for the design of a roundabout at the existing intersection located in Thibodaux, LA.

The survey was completed in accordance with LADOTD Standards and included all utilities with depths, all drainage structures, and DTM for the survey area.

The project survey control and horizontal alignment was based on the Louisiana State Plane Coordinate System, (NAD-83-92) as determined by G.P.S. observation. The project also included ROW surveys and the preparation of ROW maps.

Key Staff: Robert Price





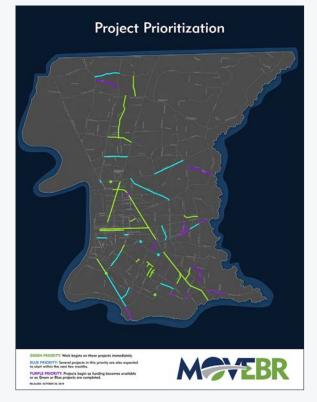
17. Firm Experience	17. Firm Experience							
Firm name	MANNING Accommensary Planning Past		Past Performance Evaluation Discipline(Performance Evaluation Discipline(s)		Other		
Project name	EAST BATON ROUGE PARISH	MOVEBR COMMUN	IITY ENHANCEMENTS	Firm responsibility (prime or sub?)		Sub		
Project number	N/A		Owner's name	East Baton Rouge Parish				
Project location	Baton Rouge, Louisiana		Owner's Project Manager	Thomas Stephens				
Owner's address, pho	ne, email	1100 Laurel Street, Bato	ton Rouge, Louisiana 70802 / 225-389-3186 ext 5634 / Tstephens@brla.gov					
Services commenced by this firm (mm/yy) 07/19		07/19	Total consultant contract cost (\$	Total consultant contract cost (\$1,000's)		\$96		
Services completed b	y this firm (mm/yy)	Ongoing	Total consultant services provided by this firm (\$1,000's) \$96			\$96		

CONTRACT NO: 4400023812

MOVEBR is a parish wide program that will improve mobility throughout the entire Baton Rouge metropolitan region over the coming years. It represents the single largest infrastructure initiative in the history of the City-Parish. Manning is on a program management team tasked with community enhancements along 22 designated corridors.

Approaching these projects through a Complete Streets lens, corridor improvements will increase safety and comfort for pedestrians, bikers, transit riders, and drivers alike. Manning provided direction throughout the creation of the design guidelines that will inform all future corridor improvements and has collaborated with the project team on the production of preliminary design concepts for each corridor.

Key Staff: Tighe Kirkland



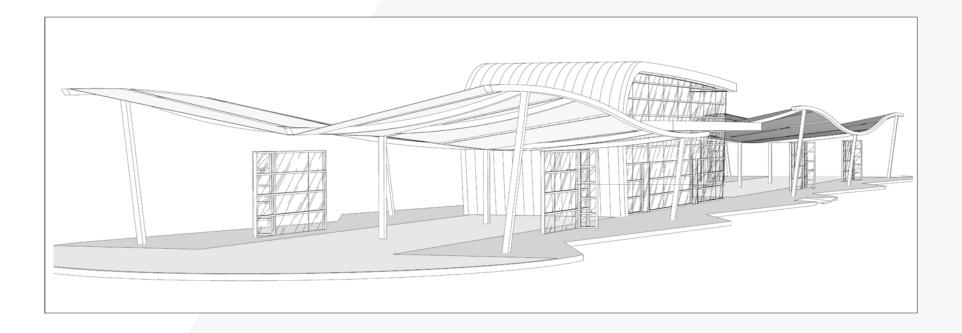


17. Firm Experience	17. Firm Experience							
Firm name	MANNING Past F		Past Pe	t Performance Evaluation Discipline(s)		Other		
Project name	CAPITAL AREA TRANSIT SYST	APITAL AREA TRANSIT SYSTEM BRCATS TRANSFER STATION DES			Firm responsibility (prime or sub?) Sub		Sub	
Project number	N/A	N/A			Capital Area Transit System (CATS)			
Project location	Baton Rouge, Louisiana			Owner's Project Manager	Melissa Glasscock			
Owner's address, pho	ne, email	1100 Laurel Street, Ro	oom 136, Baton Rouge, Louisiana 70802 / 225-389-3186 / Mglascock@brla.gov					
Services commenced by this firm (mm/yy) 12/21		12/21		Total consultant contract cost (\$1,000's)		\$287		
Services completed b	Services completed by this firm (mm/yy) Ongoing			Total consultant services provide	ed by this firm (\$1,0	00's)	\$287	

Manning performed the architectural design of the inaugural transfer station for the Capital Area Transit System (CATS) Bus Rapid Transit (BRT).

The transfer station connects eastern Baton Rouge to downtown on the Plank Road BRT line. Designs include the station structure, canopy, floor plan, and programming. This is the first newly designed station since 1991 and will serve as an architectural and design precedent for future CATS stations.

Key Staff: Tighe Kirkland







18. Approach and Methodology

INTRODUCTION AND PROJECT UNDERSTANDING

The HNTB team is uniquely qualified to provide the LADOTD with a comprehensive, forward looking and sustainable weigh station assessment, rehabilitation and plan development statewide program. We offer you a **full-service team** with local staff and relationships backed by national expertise with recent, relevant experience to drive program success. Our experience enables us to efficiently evaluate, plan, design and **implement solutions** enabling LADOTD to increase mobility and safety on the state highway system, generating economic prosperity while ensuring asset preservation. Finally, our industry **leaders in emerging technologies** will keep the program looking towards the future and agile to the accelerating pace of technology adoption.

Certification of size and weight enforcement is required by Title 23 of the United States Code of Federal Regulations (CFR) Parts 657 and 658. We understand that in 2010 the Louisiana Legislature transferred the Stationary Scales Division (SSD), who is responsible to ensure compliance with Federal and State regulations related to weight, length, width and permitted oversize and overweight loads, from the LADOTD to the Louisiana State Police. Senate Bill Number 190 from the 2021 regular legislative session transferred the SSD back to LADOTD beginning in 2022 with the creation of the Weights and Standards Stationary Scales Police Force. In response to this requirement, the LADOTD is seeking consultant programmatic and project specific support.

PROJECT APPROACH

The HNTB team was specifically assembled to address the diverse needs associated with this contract. With the recognition that LADOTD is in responsible charge of designing, maintaining and operating the weigh stations, we have developed a three-phase approach.

Our approach to evaluate, plan and deploy is outlined below and shown in the schedule on page 88.



1. Evaluate (Stage 0: Feasibility Studies): The contract will kick-off with a site-specific inventory and condition assessment (I&CA) to establish the baseline for the 21 existing weigh station facilities. We will leverage existing data where possible, including the statewide LIDAR data collection, supplemented with HNTB's GIS-based mobile application developed specifically for weigh stations. The I&CA will document the existing facility features, including technology deployments used in the screening of commercial vehicles, such as static scales, WIM, USDOT readers, license plate recognition (LPR) and the presence of bypass provider equipment (PrePass and Drivewyze). A detailed inventory of the inspection buildings, including heating, ventilation and air conditioning (HVAC), windows, operator ergonomics, information technology (IT) infrastructure, general building features and restroom facilities will also be captured. The HNTB team will capture documentation of utility infrastructure, including power, potable water sources, sanitary sewer or septic and communication for future analysis.

The application includes the asset condition assessment, which will support project prioritization and facility upgrade recommendations. Right of way (ROW) will be obtained through available information; full boundary survey will be completed during design phases. Desktop screening for environmental parameters will be conducted to determine potential constraints or necessary environmental considerations for inclusion in program scheduling. The team will also review the transportation plan for programmed projects that may be leveraged for improvements, such as lengthening of ramps, installation of lighting or upgrading of signs.

The HNTB team will use the IC&A and traffic data from the concurrent **Statewide Transportation Plan** and **Statewide Travel Demand Model**, both of which are being performed by **HNTB** and our partner **Cambridge Systematics**, to evaluate rehabilitation efforts as well as the need for new or relocated facilities to accommodate emerging freight corridors.

We understand the I-10 Toomey facility in particular, is critical, as it serves as a port of entry for commercial vehicles from Texas. This facility will be an initial focus area to address recent saltwater intrusion issues. During the initial assessment phase, the team will identify opportunities to leverage Federal Motor Carrier Safety Administration (FMCSA) Innovative Technology Deployment (ITD) grants to provide "quick fix" solutions to increase the efficiency in operation of the facilities. We will also identify opportunities to leverage the Infrastructure Investment and Jobs Act (IIJA), also known as the Bipartisan Infrastructure Law (BIL), to provide additional sources of funding. These solutions could include upgrading of non-operational equipment or installation of new equipment that increases screening capabilities, such as mainline WIM, to increase efficiencies until more involved rehabilitation efforts can be planned and deployed. To prepare for and be eligible to capture these funding opportunities, we will review and provide the necessary updates to the ITD Program Plan/ Top Level Design (PP/TLD) for approval for future funding requests.

Following the condition assessment, the team will perform a feasibility study for each of the existing facilities, as well as perform a gap analysis for future system expansion that could include full static facilities, VWIM or a combination of the two. The feasibility study will investigate the necessary improvements or relocation of facilities to support the projected commercial vehicle traffic and associated static inspection facilities requirements, provide for the safety and ergonomics of the stationary scale police officers, environmental analysis and ROW requirements. These considerations



will also support the State Enforcement Plan, required by 23 CFR 657, ensuring Louisiana receives full federal funding.

The feasibility study will analyze the following criteria as it relates to the necessary rehabilitation efforts of the weigh stations. The feasibility will analyze the needed improvements as compared to a "best practices" facility, which includes mainline and ramp WIM, internal bypass ramp, two scale system with an over-dimensional lane and truck parking for out-of-service carriers. The feasibility will address which option or combination of options yield the highest return on investment for the location, based on forecast traffic.

The cumulation of the feasibility studies will result in project prioritization and cost estimates necessary to build a program capital improvement plan. The program plan will account for funding requirements, including ROW acquisition, utility adjustment, roadway, lighting, drainage, architectural construction and technology deployment and integration as well as long-term operations and maintenance, including required equipment calibration. Throughout this process, the I&CA database will be updated and expanded to function as a program management tool which will support performance measures. A purposefully developed critical path method (CPM) schedule will account for LADOTD resource requirements for review and approval of PS&E documents, construction letting and oversight in support of the program plan.

Public Outreach

2. Plan (Stage 1: Planning/Environmental): Stakeholder engagement and the establishment of a collaborative intra- and interagency partnership team will drive the success of the program. An initial meeting with key stakeholders, including representatives from the Planning, Engineering and Operations divisions as well as the Office of Multimodal Commerce will support alignment of LADOTD goals and strategies with the Five-Year Strategic Plan. Inclusion of stakeholders from partner agencies, including FMCSA, Louisiana Office of Motor Vehicles, Louisiana State Police and the Louisiana Motor Transport Association builds further program awareness and consensus building. The initial engagement meeting will foster collaboration, with annual meetings established to report progress and garner additional feedback. Goals of these meetings include coordination of issues such as the impacts of construction projects on the weigh stations, enhancements to technology to support commercial vehicle operations and emerging technologies, including automated trucks and their impacts on daily operations. Coordination with partner agencies also supports ITD goals of data exchange opportunities, including potential IFTA and permit electronic screening.

Upon project kickoff, we will update various manuals, including the oversize and overweight permits and standard operating procedures. These documents will provide clear direction and guidance to staff to uniformly apply enforcement criteria in daily activities. A system to monitor the daily activities of staff provides key insight into the performance of facilities and can alert for the need for refresher training at locations. This can be configured like the Weight Inspector Reporting Application (WIRA) developed for the FDOT. WIRA allows for real time analytics of station performance on topics such as the number of permits validated, or which types of citations are being issued. By monitoring and evaluating these metrics, adjustments can be made in areas of training or technology deployments, providing the feedback loop for continuous improvement.

Data Management

CONTACT NO: 4400023812

Systems engineering and data management is the future of size and weight enforcement efficiency. As evidenced by LADOTD's Expanded ITD functionality we know we must continue the progress made and ensure consistency in data management and exchange. We understand the department has enhanced the oversize/overweight permitting system, funded in part through a \$1.65 million fiscal year 2020 FMCSA ITD Expanded grant. We will focus on continued data management including connections with the Safety and Fitness



Electronic Records (SAFER) system for carrier information and screening as well the establishment of a Commercial Vehicle Information Exchange Window (CVIEW) system. Through our development of the Freight Operations eXchange (FOX) platform for FDOT we are acutely aware of the requirements for connecting with and reporting information on commercial vehicle data and citations. Similarly, we support the Commercial Vehicle Review Board for FDOT where citations can be protested and we know the importance of accurately capturing and maintaining information associated with citations.

We understand the static scales are currently maintained by either Mettler Toledo or IRD, depending upon the location. It is suggested a single vendor be selected for the scale operating software. A single vendor for the operating software will provide consistency in operations throughout the state, simplifying training activities for staff. Data collected by the scale operations should be aggregated in a centralized data repository, preferably in "near real-time" for sharing among the stations and with partner agencies. The BIL will provide opportunities to increase broadband fiber optic communication which will support this high-speed transmission of data. Through integration of device data throughout the state, advanced screening algorithms will be developed to further support bypass of compliant motor carriers. Taking this a step further, HNTB is actively working with FMCSA and the Commercial Vehicle Safety Alliance (CVSA) to develop an expanded regional data exchange platform. This supports enhanced operations, not only for LADOTD, but also for the industry, encouraging industry expansion and economic development for the State. By exchanging data, downstream facilities can lookup approaching vehicle records based on LPR or other unique identifiers and determine if they have been recently screened and the status of that screening. If they fall within prescribed travel times between facilities, they can be given bypass signals through mainline device deployments. Similarly, the data can be applied throughout LADOTD for multiple use cases, including pavement design, planning, active work zone management and traffic operations. While the initial focus is on the upgrading of facilities, by including these forward thinking approaches early in the process, efficiencies will be realized and return on investments maximized by leveraging the data gathered.



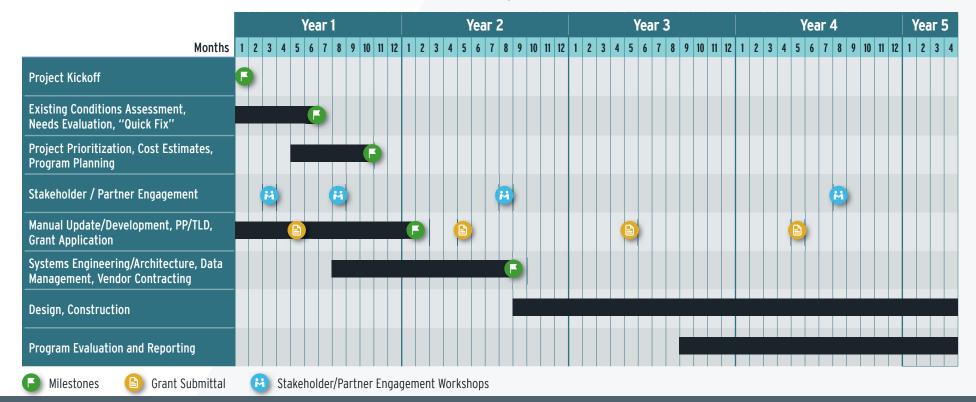
Design and Construction

3. Deploy (Stage 3: Design and Stage 5: Construction): Design and construction activities will follow the program plan and include the elements previously noted. Preliminary Plans will follow the line and grade verification during the feasibility study. Any revisions to the roadway geometry to accommodate WIM systems will be designed in accordance with ASTM E1318 criteria for data accuracy. A roadway typical section for the mainline and internal ramps will be furnished to the LADOTD at the Pre-Design Planning conference and will consider over-dimensional truck movements. Portland cement concrete pavement will be utilized for long-term durability to accommodate the loading associated with commercial vehicle traffic. Specific details will be provided for the transition from the weigh station ramp to mainline pavement at the intersections of different pavement structures to reduce displacements and pavement degradation at the joint.

The ramps will be designed to accommodate deceleration and acceleration onto the mainline as well as to support projected truck queen lengths based on the traffic volume projections and processing time associated with the weigh station layout. To aid in the efficiency of these activities, standard plans will be developed for consistent application and long-term maintenance activities. These standards will include signing and pavement markings, device layout (including cabinet configuration, IP schemas, conduit configuration and color, including spares, etc.) and electric

and communication infrastructure. Specific details to clearly delineate the in-ground components will be provided to differentiate systems such as electrical for lighting from ITS. The HNTB team will use the Louisiana Standard Specifications for Roads and Bridges; however, for specialized devices such as WIM, LPR and over-dimensional devices, we have experts who can develop special specifications, including the potential for sole source justification for consistency in functionality and integration into the scale operating software, as well as streamlined future maintenance activity. The inclusion of Arcadis to our team brings local and intimate LADOTD knowledge and will incorporate design considerations for future maintenance and expansion of the ITS infrastructure. Static scale considerations will include lengthened platforms (decks) to allow for the weighing of over-dimensional vehicles without having to reposition.

Access to the static scale platform pits will provide for inspection of the end walls and piers and will consider confined space criteria. Standardizing the static scale load cells for all locations will allow for stockpiling of components to facilitate rapid repair and efficiency. Buildings will be designed in accordance with local building codes as well as Americans with Disabilities Act (ADA) requirements to provide safe accessibility for staff with secure separation for drivers. Bullet resistant windows that provide for clear line of sight for approach ramps allow staff to ensure the technology is properly functioning and to visual identify if queueing of vehicles is occurring and not detected by the system.



CONTACT NO: 4400023812



The HNTB team will coordinate utility requirements including provisions for potable water and sanitary sewer that may be provided by the owner of the utility. Adequate parking will be incorporated where feasible based on ROW considerations, noting specifically that technology such as tire and brake monitoring systems can result in many vehicles placed out of service. Inspection buildings for additional Level 1 inspection will include proper ventilation as well as an in-ground pit for undercarriage inspection. An appropriate survey, including property and topographic, will be performed for each design, and we will leverage advanced techniques including Lidar for safety and efficiency. Specific maintenance of traffic control plans will be developed for each location.

Should the need for public engagement be required during design, we will leverage our Public Involvement Management Application, a modern web platform designed for collaboration. This tool allows LADOTD to electronically manage and visualize stakeholder feedback on project issues. The HNTB team will evaluate environmental and hydraulic conditions at each location, including a Phase II environmental site assessment, noting specifically the intrusion of salt water that has occurred at the Toomey location. Before projects move into final plans, the HNTB team will ensure that all environmental criteria has been cleared. Final plans will include updated construction cost estimates. We will follow our critical path method schedule, developed as part of the overall program plan, during the construction proposal phase, including the eight-week duration for approval and additional six weeks prior to scheduled letting. HNTB will support construction with review of RFIs and shop drawings within the prescribed RFQ terms. Integration of weigh station technology requires a team with the knowledge of component device requirements. HNTB will leverage our industry relationships with the vendors of modern technology to support the integration efforts during construction so that the systems operate efficiently and effectively.

THE HNTB TEAM

HNTB has assembled a team with the breadth of resources and national expertise to drive success of this program. Further, our long-standing relationships and working history foster a collaborative and efficient team. Our team includes **Cambridge Systematics**, a partner on the **Louisiana Statewide Transportation Plan** and **Statewide Travel Demand Model** which will provide keen insight into commercial vehicle growth and directly support evaluation of future needs. We have worked with Cambridge Systematics across the nation and have a long-standing history of delivering quality projects, including **TxDOT's Weigh in Motion and Vehicle Classification Strategic Plan**. We have included a team with Louisiana roots, relationships and experience with **Arcadis US, Inc.** for ITS and roadway design, **APS Engineering and Testing, LLC** for geotechnical and subsurface exploration activities, **Forte and Tablada, Inc.** for survey and ROW mapping with **GOTECH, Inc.** providing advanced survey data acquisition techniques. **ELOS Environmental** will provide environmental support during the feasibility study as well as preliminary and final plans development. **Manning, APC** was specifically included for building design. Specific roles and experience of each member of the team are included in the organizational chart.

Program Management Approach

The HNTB team knows multiple tasks must be undertaken concurrently to meet the requirements of this Weigh Station program. As a result, we have organized the HNTB team with Craig Toth, PE, as Project Manager with support from local office Deputy Project Manager Rick Hathaway, CCM. As a vice president and group director of the disciplines associated with HNTB on this contract,

Craig's leadership brings a successful track record of delivering similar projects. Coupled with Rick's LADOTD knowledge of PS&E development and delivery, the team will employ a comprehensive Weigh Station program that drives implementable and cost-efficient solutions. The team, leveraging years of industry experience in freight operations, policy and enforcement, will deliver strategic and implementable solutions that builds stakeholder and industry consensus and drives the future of mobility for the state.

CONCLUSION

CONTACT NO: 4400023812

The HNTB team is uniquely qualified to deliver this unique and diverse contract through our:

- **Full-service team** led by subject matter experts with a core of local staff with established LADOTD relationships.
- Focus on implementable solutions that drive success and provide cost efficient operations.
- **Industry leadership in emerging technologies** that leverage investments in ITS and can enable future mobility enhancements.

Most importantly, our top priority is assisting LADOTD with the successful transition into the roles and responsibilities of stationary enforcement activities. We are excited to have the opportunity to continue our partnership on this weigh station program.







19. Workload								
Firm	Past Performance Evaluation Discipline(s)	State project number	Project name	Remaining unpaid balance				
	Environmental	H.003931	I-10 Calcasieu NEPA Restart (Lake Charles, LA)	\$519,569				
	Dridge	State Contract No. 44-13321	IDIQ Contract for In-Depth Bridge Inspection					
	Bridge	H.009730.5	Calcasieu, EBR, and West Feliciana Parishes In Depth Inspections for I-10 Calcasieu, I-10 Baton Rouge and John James Audubon Bridge	\$1,065,643				
	Bridge	State Contract No. 4400005772	Bridge Preservation Retainer					
			Retainer Contract for Trust Indenture Services and Engineering Services for LA 1 Toll Facilities					
	Other	State Contract No.	Task Order No. 1: LA 1 Program Support	\$360,410				
		4400010060	Task Order No. 10: LA Post Ida Repairs	\$30,261				
			Task Order No. 7: RTCS and Interim BOS	\$8,120				
		State Contract No. 44-17329	IDIQ Contract for Innovative Procurement Support Services					
			Task Order No. 1: 1-12 Managed Lane Conversions	\$174,742				
HNTB Corporation	Other		Task Order No. 2: EOR	\$169,077				
			Task Order No. 3: Jimmie Davis DB Procurement	\$369,153				
			Task Order No. 4: I-10 Calcasieu Toll Support	\$92,885				
		State Contract No. 44-17264	Retainer Contract for Bridge Preservation					
	Bridge	H.014588.5	I-20: Orange Street Overpass Repair	\$46,747				
	Jay0	H.010319.5	I-110: North Street to Plank Road	\$10,458				
		H.001166.6	Caddo Lake CRES	\$138,327				
		H.014324.6	LA 3250: 1-49/UP RR Overpass Repair	\$53,948				
		H.014454.6	Boeuf River Bridge CRES	\$85,801				
	Bridge	H.011965.5	LA 47 Cleaning and Inspection	\$937,939				
		H.014672.6	I-12: LA 1032 Overpass Repair	\$44,221				
		H.012083.5	I-10: Calcasieu River Bridge Int. Repairs					



19. Workload					
Firm	Past Performance Evaluation Discipline(s)	State project number	Project name	Remaining unpaid balance	
	Environmental	H.002397.2	LA 16 (Pete's Hwy) Interstate 12 Interchange Route	\$20,109	
	Environmental	H.011328.2	I-49 South (Ricohoc to Berwick)	\$828,788	
	Traffic	H.011328.2	I-49 South (Ricohoc to Berwick)	\$176,056	
	Road	H.011328.2	I-49 South (Ricohoc to Berwick)	\$353,273	
	ITS	H.013868.5	ITS Program Management and Operations (2021)	\$171,274	
	ITS	H.013868.6 (A)	ITS Routine Maintenance Engineering and Inspection (ME&I) (2021)	\$75,276	
	ITS	H.013868.6 (B)	ITS Responsive/Emergency Maintenance Engineering and Inspection (ME&I) (2021)	\$49,298	
	ITS	H.013868.5	ITS Program Management and Operations (2022)	\$668,651	
Arcadis US, Inc.	ITS	H.013868.6 (A)	ITS Routine Maintenance Engineering and Inspection (ME&I) (2022)	\$674,471	
	ITS	H.013868.6 (B)	ITS Responsive/Emergency Maintenance Engineering and Inspection (ME&I) (2022)	\$154,105	
	ITS	see the next column	PO No. 2000588785 Scott Tower Cable and Grounding Repair, PO No. 2000609725 I-10 @ Louisiana Ave CCTV & Elec Repair, PO No. 2000610683 I-110 @ US61 Mini-Split AC Install, PO No. 2000620009 LA 3040 @ Hollywood Rd Elec Serv. Install, PO No. 2000617303 I-10 @ Picardy CCTV Upgrade, PO No. 2000617304 US 61 @ Greenwell Springs Bluetoad Install, PO No. 2000634022 I-60 @ Canal CCTV Upgrade, PO No. 2000634027 I-20 @ I-220 CCTV Repair For The Site in Shreveport, LA, PO No. 2000635990 LaPlace Microwave Tower CCTV Install, PO No. 2000635996 I-10 @ Claiborne DMS Electrical Service Vandalism Repair	\$47,300	
	CE&I/OV	H.011220.6-1	I-10 CBD2 Carrollton-Lafitte Ave and Supplement No. 1	\$120,499	
	CE&I/OV	H.012876.6	US 90Z (I-10 Magnolia Street) Supplement No. 1	\$36,153	
	CE&I/OV	H.013710.6	I-10: US 61 to Laplace ITS Deployment	\$542,651	
	Environmental	H.009932	US 80 Widening: Vancil Road to Well Road Environmental Assessment	\$5,343	
	Traffic	H.003370	I-220/I-20 Interchange IMP & BAFP Access Design Build	\$15,000	
	Traffic	H.004100.5	I-10: LA 415 to Essen Lane on I-10 and I-12	\$790,927	



19. Workload				
Firm	Past Performance Evaluation Discipline(s)	State project number	Project name	Remaining unpaid balance
	Bridge	H.004100.5	I-10: LA 415 to Essen Lane on I-10 and I-12	\$1,454,284
	ITS	H.004100.5	I-10: LA 415 to Essen Lane on I-10 and I-12	\$306,165
	Traffic	H.005121	LA 1/LA 415 Connector	\$108,947
	Traffic	H.972419.1	SHSP Update and Regional SHSP Marketing/Advertising Support	\$31,557
	Road	H.012901.6, H.010634.6	US 90Z (Bodenger Blvd. – Stumpf Blvd.)	\$339,654
	Traffic	H.012018.6	Adaptive Traffic Signal Design and Implementation	\$12,608
	Traffic	H.014305.1	US 61: Cardinal Drive to Bert Street	\$24,979
	Traffic	H.013322.1	LA 3040 Feasibility Study	\$80,000
	Environmental	H.012891	LA 300 at Bayou LaLoutre	\$12,825
	Environmental	H.014215	LA 20 at 40 Arpent Canal and Drainage Canals	\$50,048
	Environmental	H.014213	LA 700 at Indian Bayou and Bayou Grand Marais	\$40,179
Arcadis US, Inc. cont'd.	Environmental	H.014279	LA 35: Drain Canal Near Lawtell	\$32,759
7.1.00.00, 1.1.01, 00.110 0.1	Environmental	H.014278	LA 85: Patout and Drain Canal Bridges	\$39,894
	Environmental	H.014276	LA 975: Creek Bridges	\$20,579
	Environmental	H.014216	LA 682 at Norris Canal and Unnamed Tributaries	\$48,600
	Environmental	H.014241	LA 10 at Mill Creek	\$32,741
	Environmental	H.014251	LA 422: Bridge Over Unnamed Stream	\$31,538
	Environmental	H.012565	LA 963 at Redwood Creek and Little Redwood Creek	\$14,378
	Environmental	H.014257	LA 68 at Karrs Creek	\$33,121
	Environmental	H.014253	LA 421 at Thom Creek	\$13,880
	Environmental	H.014256	LA 952 at McKowen Creek and Beaver Creek	\$38,383
	Environmental	H.014254	LA 955 at Knighton Bayou, Trib. Olive Branch, White Branch, and Chapman Branch	\$55,056
	Environmental	H.012061	LA 1 at Lateral W15#7A and Bayou Moreau	\$13,934
	Environmental	H.014252	LA 1054 at Tyner Creek	\$11,799



19. Workload					
Firm	Past Performance Evaluation Discipline(s)	State project number	Project name	Remaining unpaid balance	
APS Engineering and Testing, LLC	Geotech	H.013127	Retainer Contract for Geotechnical Services	\$53,996	
	Geotech	H.013144	Retainer Contract for Geotechnical Services	\$45,457	
	Environmental	H.012565	LA 963 at Redwood Creek and Little Redwood Creek	\$14,378	
	Environmental	H.014257	LA 68 at Karrs Creek	\$33,121	
	Environmental	H.014253	LA 421 at Thom Creek	\$13,880	
	Environmental	H.014256	LA 952 at McKowen Creek and Beaver Creek	\$38,383	
ELOS Environmental, LLC	Environmental	H.014254	LA 955 at Knighton Bayou, Trib. Olive Branch, White Branch, and Chapman Branch	\$55,056	
	Environmental	H.012061	LA 1 at Lateral W15#7A and Bayou Moreau	\$13,934	
	Environmental	H.014252	LA 1054 at Tyner Creek	\$11,799	
	Environmental	H.013996	Rural Bridge Replacement Initiative: LA 1074, LA 1075 Bridges Near Rio	\$1,505,000	
	Environmental	H.013997	Rural Bridge Replacement Initiative: Local Rd Over Borrow Pit (Blind River)	\$568,000	
	Bridge	H.012485.1	IDIQ Contract 4400010099, Task Order No. 4 Off System Bridge Load Rating, Statewide	\$ 190,738	
	Bridge	H.012485.1	IDIQ Contract 4400010099, Task Order No. 5 Bridge and Culvert Load testing	\$276,656	
	Survey	H.014628.5	IDIQ Contract 4400010587, Task Order No. 17 Turn Lanes at Rice Mill	\$71,418	
Forte and Tablada, Inc.	Survey	H.014219, H.014222, H.014228, H.014231, H.014236, H.013954, H.013979, H.013985, H.013992, H.013994, H.013995, H.013990	Rural Bridge Replacement Initiative	\$54,676	
	Survey	H.003931.5	IDIQ Contract 443015237 I-10 Calcasieu River Bridge Replacement	\$2,067,730	
	Survey	H.004273.5	DOTD I-49 Connector (Lafayette Regional Airport to I-10/US 167 Interchange)	\$119,318	
	Survey	H.012485.1	IDIQ Contract 4400010099, Task Order No. 3 Metal Culverts Inspection, Statewide	\$103,399	
	Survey	H.011684	LA 327 Spur: Staring Lane Extension Route LA 327-S	\$50,279	
	Survey	H012072	LA 60 Drain Bridge	\$1,428	



19. Workload					
Firm	Past Performance Evaluation Discipline(s)	State project number	Project name	Remaining unpaid balance	
	CE&I/OV	Contract No. 4400004631;	Retainer Contract for Construction Engineering Management and Staff Augmentation Services for		
		Task Order No. H.003107.6 *Task Order No. 1	District 62 (St. Helena, Livingston, St. John, Tangipahoa, Washington & St. Tammany Parishes)	\$0	
		*Task Order No. 2		\$171,520	
	Survey	Project No. H.004791	Belle Chasse Bridge & Tunnel Replacement (Plaquemines Parish)	\$40,150	
	CESTION	Contract No. 4400017006;	I-10 / Loyola Interchange Improvements (Jefferson Parish)	\$578,549	
GOTECH, Inc.	CE&I/OV	Task Order No. H.011670	(OCTICE SOLLY MESSIT)		
	CE&I/OV	Contract No. 4400017430;	LA 24 & 316: Company Canal Bridge CE&I (Terrebonne Parish	\$304,467	
		Task Order No. H.001498.6			
	Planning	Contract No. 4400017327	IDIQ Innovative Procurement & Alternative Delivery Support Services, Statewide	\$74,052	
	CE&I/OV	Contract No. 4400019950	IDIQ Contracts for Construction Engineering & Inspection Services, Statewide w/Majority of Work in District 03	\$0 \$68,000	
		Task Orders H.003003; H.002151	(Acadia, Lafayette, Evangeline, Iberia, St. Landry, St. Martin, St. Mary & Vermilion Parishes)		
	Survey	Contract No. 4400011354	IDIQ Electrical LA 31: I-49 Interchange Lighting District 03 (Lafayette)	\$0	
		Task Orders	District 03 (Edityette)	\$0	
		H.014552.5;		\$27,538	
		H.014553.5; H.014556.5; H.014557.5		\$48,690	
	CE&I/OV	Contract No. 4400019550	LA 1: Port Allen Canal Bridge Replacement Phase 1 (HBI) (CE&I) Route LA 1 (West Baton Rouge Parish)	\$787,337	
		SPN: H.001234			



19. Workload					
GOTECH, Inc. cont'd.	CE&I/OV		IDIQ Contract for Construction, Engineering & Inspection & Staff Augmentation - Pecan Island Rd - District 61 (Hammond)	\$82,736	
Manning, APC	N/A	N/A	N/A	N/A	





LOUISIANA PROFESSIONAL ENGINEER LICENSE







LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD

(LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291

www.lapels.com

Mrs. Kate Brady Prejean

License/Certificate Type - Number

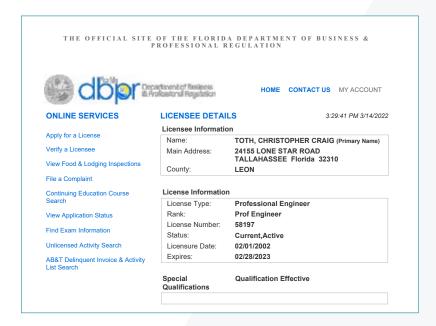
Expiration Date

PE.0035036

03/31/2024

Status: Active

FLORIDA PROFESSIONAL ENGINEER LICENSE





TRAFFIC ENGINEERING PROCESS AND REPORT COURSE













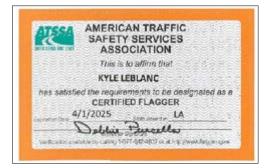
TRAFFIC CONTROL SUPERVISOR







FLAGGER







DBE CERTIFICATIONS







LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

This is to certify that under Title 49, Part 26 of the Code of Federal Regulations & under the State of Louisiana United Certification Program (LAUCP)

APS Engineering & Testing, LLC.

is a Certified Disadvantaged Business Enterprise (DBE) & Small Business Element (SBE) in the following specialties:

NC221310, NC221320, NC541330, NC541370, NC541380, NC541620, NC541690

NOTE: There may be other approved NAICS Codes. The online DBE Directory includes a complete list of approved codes.

Certificate Eligibility: October 2021 to October 2022

This certificate is valid through the above date provided. This firm meets the on-going programmatic standard and fulfills the annual update requirement to remain in good standing as a DBE. This certification is subject to annual vertification and suspension or revocation based upon reasonable cause to believe that the firm is inaligible.

Rhonda Wallace

Rhonda Wallace, DBE/SBE Programs Manager

Louislana Department of Transportation & Development



DBE CERTIFICATIONS



Office of the Secretary PO Box 94245 | Baton Rouge, LA 70804-9245 PH: 225-379-1200 | FX: 225-379-1851

John Bel Edwards, Governor Shawn D. Wilson, Ph.D., Secretary

August 12, 2021

GOTECH, Inc. Attn: Rhaoul A. Guillaume, Sr. P.E.

Attn: Rhaoul A. Guillaume, Sr. P.E. 8383 Bluebonnet Blvd. Baton Rouge, LA 70810

Dear Rhaoul A. Guillaume, Sr.:

We have received your firm's Disadvantaged Business Enterprise (DBE) and Small Business Element (SBE) annual affidavit. Based on the information which you provided we have concluded that your firm continues to meet the eligibility requirements of our program and remains certified for enlight-newfown which is described to the following specific work categories that fall under the listed NAICS codes:

NC541330-Engineering Services

C09-Civil Engineering

NC541340-Drafting Services

C03-Drafting

NC541370-Surveying and Mapping (except Geophysical) Services

C06-Land Surveying

NC541618-Other Management Consulting Services

C74-Construction Management

C21-Construction Inspections

C11-Planning

Please note that per the federal regulations, suppliers only receive 60% goal credit towards the materials they provide. Also note that A Louisiana Contractor's License is required by any contractor performing work in excess of \$50,000 with the exception of electrical, mechanical and plumbing which are required to have a license if work is in excess of \$10,000. You may contact the State Licensing Board for Contractors at (225) 765-2301 for more information. Your firm's certification will be recognized by all participants of the Louisiana Unified Certification Program. This includes all entities receiving federal transportation funding within the boundaries of our state.

You will be required to submit an annual affidavit with all supporting documents (Business taxes with all attachments, such as 1098, 1099, K-1's and/or W-2's) stating your firm continues to meet the eligibility requirements of the program. An email informing you to submit the necessary documentation will be forwarded to you approximately six (6) weeks prior to your anniversary date of June 30, 2022. However, should you not receive notification from this office for your annual affidavit, it is your responsibility to contact us. Additionally, you must notify our office immediately regarding any changes which affect the social and economic disadvantage, size, ownership or control of your firm.

The Department has contracted with SJB Group, LLC to provide DBE Supportive Services to all our certified DBE's at no cost to you. This consultant can offer your firm assistance and guidance on areas such as marketing, estimating, bidding, financial preparations, etc. Please feel free to contact Jackie des Bordes or Kenyatta Sparks with the SJB Group, LLC at (225) 769-3400 for any assistance needed to grow your organization.

Louislana Department of Transportation and Development | 1201 Capitol Access Road | Baton Rouge, LA 70802 | 225-379-1200

An Equal Opportunity Employer | A Drug-Free Workplace | Agency of Louislana gov | dots la.gov

GOTECH, Inc. August 12, 2021 Page 2

We reserve the right to withdraw this certification, if at any time, it is determined that **DBE** and **SBE** certifications was knowingly obtained by the submission of false, misleading or incorrect data. We further reserve the right to request additional information and/or conduct an on-site visit at any time during your certification period.

If further assistance is needed, contact the DBE Certification Unit at (225) 379-1382.

Respectfully

Paula Merrick Roddy Compliance Programs Director



DBE CERTIFICATIONS







LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

This is to certify that under Title 49, Part 26 of the Code of Federal Regulations & under the State of Louisiana United Certification Program (LAUCP)

GOTECH, INC

Is a Certified Disadvantaged Business Enterprise (DBE) & Small Business Element (SBE) in the following specialties:

NC541330 NC541340 NC541370 NC541618

NOTE: There may be other approved NAICS Codes. The online DBE Directory includes a complete list of approved codes.

Certificate Eligibility: June 2021 to June 2022

This certificate is valid through the above date provided. This firm meets the on-going programmatic standard and fulfills the annual update requirement to remain in good standing as a DBE. This certification is subject to annual verification and suspension or revocation based upon reasonable cause to believe that the firm is ineligible.

Paula Roddy, Compliance Programs Director

Louisiana Department of Transportation & Development



DBE CERTIFICATIONS

STATE & LOCAL DISADVANTAGED BUSINESS ENTERPRISE PROGRAM









CONTRACT NO: 4400023812

1340 Povdras Street, Suite 1800 | New Orleans, LA 70112

February 18, 2022

VIA EMAIL

Raymond Manning Manning, APC dba Manning 1006 S. Michigan Ave. Suite 606 Chicago, IL 60605 wrm@manning.xyz

RE: SLDBE Re-certification Approval

Dear Raymond Manning:

We are pleased to inform you that Manning, APC dba Manning has been approved for re-certification as a State & Local Disadvantaged Business Enterprise (SLDBE). This approval represents certification with: City of New Orleans, Sewerage & Water Board of New Orleans, Louis Armstrong New Orleans International Airport and Harrah's New Orleans Casino & Hotel.

Your firm's contact information will be active on the online SLDBE Directory (http://www.nola.gov/economic-development/supplier-diversity/directory/). It will reflect your areas of certification. Your specialties will be listed as:

CERTIFICATION DESCRIPTION: ARCHITECTURAL SERVICES

NAICS 541310: ARCHITECTURAL SERVICES

A re-certification notice will be emailed to you prior to the date of expiration. However, should you not receive notification from this office for your re-certification, it is your responsibility to contact us. Submittal of this information is necessary to ensure that there is no interruption in your certified status during your certification period. If a re-certification application is not received, we will proceed with decertification procedures.

We invite you to view City of New Orleans, Sewerage & Water Board of New Orleans, Louis Armstrong New Orleans International Airport and Harrah's New Orleans Casino & Hotel websites for SLDBE opportunities.

If we can be of further assistance, you may contact us at 504-658-4275 or via e-mail at saoliva@nola.gov.

Sincerely,

Sonia Oliva

Sonia Oliva

Certification Coordinator

Office of Supplier Diversity | City of New Orleans

1340 Poydras Street | Suite 1800 | New Orleans, LA 70112





21. QA/QC Plan









Contract No. 4400023812

SAMPLE BRIDGE PROJECT QA/QC MANAGEMENT PLAN





BRIDGE PROJECT QUALITY MANAGEMENT PLAN INDEX

1.0 INTRODUCTION#
1.1 PROJECT INTRODUCTION#
1.2 QUALITY INTRODUCTION#
1.3 DEFINITION OF TERMS AND POSITIONS#
1.4 PROJECT TEAM#
1.5 SUBCONSULTANTS#
1.6 FILE MANAGEMENT#
1.7 CADD#
1.8 RESPONSIBILITIES OF THE LADOTD BRIDGE TASK MANAGER#
2.0 QUALITY CONTROL PROCESS#
2.1 LEVELS OF REVIEW#
3.0 QUALITY ASSURANCE PROCESS#
3.1 AUDITS#
3.2 CORRECTIVE ACTION AND PREVENTIVE ACTION PLANS#
4.0 QUALITY MANAGEMENT IMPLEMENTATION#
4.1 QMP PROCESS DIAGRAM#
QUALITY PROCESS DIAGRAM#
5.0 DELIVERABLES#
6.0 APPENDIX#



CONTRACT NO: **4400023812**

1.0 INTRODUCTION

1.1 PROJECT INTRODUCTION

This document was developed to provide quality control (QC)/quality assurance (QA) procedures for multiple movable bridge contracts advertised by the LADOTD. The intent of this HNTB QMP is to supplement Part I, Chapter 3 of the LADOTD Bridge Design and Evaluation Manual.

1.2 QUALITY INTRODUCTION

The HNTB doctrine states – sustainability, profitable growth, best business practices and "4 for 4". HNTB's "4 for 4" is our performance standard for each and every project as stated below:



Quality is a key component of this doctrine and is expected in everything we do. HNTB has defined the standard of quality that is to be achieved in our Manual of Professional Practice (MPP) and has established general guidelines for achieving this goal and documenting the results.

The HNTB team is aware that QC and QA is our responsibility, not the responsibility of the LADOTD. We are committed to providing high-quality, accurate work on all deliverables associated with this contract.

The **Bridge QMP** establishes planned and systematic processes necessary to provide adequate confidence that this project will conform to the established quality requirements. It consists of two key components, QC and QA.

This QMP provides an understanding of basic quality processes set forth for the project and the procedures established for implementing those processes. The general procedures outlined herein are recommended for use on all tasks including the management of our subconsultant's work products. These procedures are intended to serve as guidelines and are not intended to be a replacement for sound professional judgment.

The following QMP was developed in accordance with HNTB Gulf Coast District QMP and Part I, Chapter 3 of the LADOTD Bridge Design Manual "Policy for quality control and quality assurance (QC/QA)".

1.3 DEFINITION OF TERMS AND POSITIONS

QC: Procedure for checking the accuracy and consistency of the calculations and the drawings, detection and correcting design omissions and errors before the design plans are finalized, and verifying the specification for the load-carrying members are adequate for the service and operation loads.

QA: Procedure for reviewing the work to ensure the QC procedures are in place and effective in preventing mistakes, and consistency in the development of the bridge design plans and specifications.

<u>Designer:</u> Engineer directly responsible for the development of design calculations, drawings, special provisions and cost estimates. Must be either a licensed professional engineer or engineer intern.

Checker: Engineer responsible for performing a full technical review of the design calculations, special provisions, drawings, and cost estimates. Must be either a licensed professional engineer or engineer intern, however, if the designer is a engineer intern the design checker must be a professional engineer.

<u>Design Back-Checker:</u> Typically the designer. If designer is unavailable, the design back-checker must coordinate with the checker to ensure all noted changes are agreed to. Must be either a licensed professional engineer or engineer intern, however, if the checker is an engineer intern, the design back-checker must be a professional engineer.

Detail Back-Checker: Engineer responsible for performing a full review of the drawings. Must be either a licensed professional engineer or engineer intern, however, if the checker is an engineer intern, the detail back-checker must be a professional engineer.

<u>Updater:</u> Individual responsible for updating the design calculations or plans to reflect all agreed upon changes. (For design calculations, typically the designer; for plans, typically the detailer.)

Verifier: Individual (usually the checker) responsible for verifying that all changes or additions to a drawing, calculation, report or graphic element have been accurately incorporated.

<u>Reviewer:</u> Engineer responsible for ensuring that the QC process has been followed as outlined.

<u>Detailer:</u> Individual responsible for preparing drawings.

<u>Supervisor or Team Leader:</u> Project manager or task assignee responsible for overseeing the project and staff on the project.

Engineer of Record (EOR): The engineer responsible for supervision and/or preparation of plans, sealing calculations, plans, and special provisions if required.

Quality Project Manager (QPM)/Quality Task Manager (QTM): Individual responsible for conducting audits and ensuring QC plans are adhered to. The QPM is responsible for the entire project and all aspects and the QTM are responsible for each discipline.



<u>Independent Technical Reviewer:</u> Engineer who completes an independent review of the drawings and/or calculations. Independent technical reviewer is part of the consultant team but is not part of the design team. Engineer must have experience reviewing tasks that meet or exceed those of the designer and or checker.

<u>Peer Review:</u> Independent engineering entity, with no prior involvement in the project, performs a check of the designs by producing an independent set of calculations based on the drawings or performs the review as specified in the scope of work. Peer reviewer may not be employed by the same consultant with whom the designer or design checker is employed. Peer reviews are typically performed between 60% to 98% final plans stage depending on the scope of the review. It is not within the scope of services for this project.

<u>Audit:</u> A systematic, independent and documented activity performed to verify that applicable elements of the QMP have been effectively implemented and documented in accordance with the specific requirements.

<u>Constructability Review:</u> A design review performed by the contractor or appropriate construction services personnel to assess the feasibility of the proposed design from a construction perspective.

Design Criteria: A set of project-specific parameters that define the design requirements, specifications and functional classifications of the project.

<u>Inter-Discipline Review:</u> A discipline specific design review of a design package by all applicable design disciplines.

Quality Records: A completed document or recordkeeping evidence of successful implementation of any given aspect of the QMP.

Stet: No change required.

1.4 SUBCONSULTANTS

Any work performed by a subconsultant to HNTB shall be held to the same quality standards as described herein for HNTB produced work. The subconsultant will be responsible for following the Movable Bridge QMP. As part of the HNTB team project kick-off, all team members will participate in a quality training session to ensure all parties understand QC/QA requirements and expectations. At a minimum, additional quality training sessions will be held yearly to reinforce quality processes and introduce processes to any new team members.

1.5 FILE MANAGEMENT

SharePoint will be used to manage electronic files between HNTB, ELOS, BDI, GPI, Forte and Tablada, Alliance, GOTECH, Volkert, Manning and LADOTD. Separate folder structures will be created for each structure. ProjectWise will be used to transfer data between LADOTD and HNTB. CADD drawings will be created and modified on local servers. Once complete, all team members will upload PDF CADD files to SharePoint to initiate quality reviews. HNTB will upload final CADD and PDF files will be uploaded to ProjectWise.

1.6 CADD

All drawings will be developed in Microstation V8i and be CADD conformed to LADOTD standards.

1.7 RESPONSIBILITIES OF THE LADOTD BRIDGE TASK MANAGER

LADOTD bridge task manager will not be responsible for QC/QA of HNTB or our subconsultant's work. The LADOTD bridge task manager will be responsible for items listed in Section 3.3.2 of Part I, Chapter 3 of the Bridge Design Manual. Some, but not all, items are listed below:

- Develop scope.
- · Approve design criteria submitted by HNTB.
- Review and approve bridge type, size and location (TS&L) and ensure design criteria is updated as project progresses.
- Review consultant submittals. Selectively check dimension and details as a cursory review of the plans for constructability, consistency, and clarity but not as QC/QA of HNTB work.
- Monitor project schedule HNTB is ultimately responsible for maintaining schedule or communicating concerns with LADOTD PM.
- Monitor budget HNTB is ultimately responsible for maintaining budget or communicating concerns with LADOTD PM



CONTRACT NO: 4400023812

Ben Goodner, PE, will serve as this contract's Quality Project
Manager (QPM). Ben is a project manager in the Baton Rouge
Office's Bridge Department and formerly served as the Quality
Manager of the entire Baton Rouge office. His thorough
understanding of LADOTD Bridge Section process and procedure

uniquely qualifies him to manage the critical facet of the project. Ben's knowledge and leadership will ensure all assignments are completed with the utmost level of quality.



2.0 QUALITY CONTROL PROCESS

QC is defined as the procedures and processes established to meet the project requirements for quality as stated in the QMP and the accepted standard of care. It is our basic checking procedures for ensuring accuracy and completeness. The following are the standard checking formats for hard copy documents (such as hand calculations, program input files and plans) and electronic documents (such as word documents) that should be implemented for all QC processes:

Design Calculations and LADOTD Approved Design Programs

QC starts first with the designer. The designer is responsible for reviewing all calculations prior to being checked.

A copy of the original document is made for documentation of all review activities. For checking of design programs, a printout of the input and output should be provided to the checker, however, the checker is only responsible for checking the input and reviewing the output to verify the input.

Review of the document for correctness and completeness is performed by the **checker**.

- · Changes are marked in red.
- Correct items are highlighted in yellow.
- Correct full paragraphs (or pages) are marked with a **yellow diagonal**.
- Input files are 100% checked. Controlling values of output files will be verified as an additional check.
- When the checker is complete, all text will be either highlighted in yellow or marked in red.
 By doing so, the QPM can easily verify if the entire document has been checked.

A back-check of all comments/proposed changes is performed by the design **back-checker** (usually the **originator**).

- Agreement is shown with a green check mark ✓.
- Disagreement is discussed with checker and noted with a green STET (no change required)
 upon concurrence with original value.

All agreed upon changes are made to the original document by the **updater**.

• Items are **circled in blue** to show that the change has been made.

All updates to the document are verified for completeness and correctness by the **verifier** (usually the **checker**).

• Blue circles are highlighted in yellow to show that updates were made.

Once complete, there should be two copies of the design calculations. One yellow highlighted copy with changes noted in red, agreement in green, blue circle to note the change is made and yellow over the blue indicating the change has been verified. The second copy is the corrected copy and should have the checker and back-checker initials. The corrected copy will be included as part of the design calculation book submitted to LADOTD. Both files shall be uploaded to the Team SharePoint site.

Electronic Documents (Word, PDFs, etc.) (Not Design Programs)

A review of the document for correctness and completeness is performed by the **checker**.

- Changes are shown in an inserted comment box or using track changes in a Word Document.
- Correct items are highlighted with yellow.
- Correct full paragraphs (or pages) are highlighted in yellow.
- Checker will save a version of the checked file once checking is complete.

A back-check of all comments/proposed changes is performed by the **back-checker** (usually the **originator**).

- Agreement is shown by typing "concur" and initialing in comment box or accepting changes (Word Document).
- Disagreement is discussed with checker and noted with a STET in comment box with initials of both parties or by rejecting changes (Word Document) upon concurrence with original value.
- Back-checker will save a version of the file once back-checking is complete.

All agreed upon changes are made to the original document by the **originator** (or **updater** if track changes was not used). A version will be saved once updating is complete.

All updates to the original document are verified for completeness and correctness by the **verifier** (usually the **checker**). The final, clean version will be saved once verification is complete. Associated files shall be uploaded to the Team SharePoint site.



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Plans (All Submittals to LADOTD)

A set of plans is printed to PDF and each sheet stamped with a PDF checking print stamp (see Appendix).

Review of the plans for correctness and completeness is performed by the checker. The preference is this checking process occur within Bluebeam, but printing paper copies and hand marking is acceptable.

- · Changes are marked in red.
- Correct items are highlighted in yellow.
- If checker has significant comments and changes, plans shall be updated accordingly and checking process restarted.
- **Checker** must be a professional engineer or engineer intern and cannot be the **designer** of the plans.

The **detail back-checker** (usually the **designer**) will perform a back-check of all comments/ proposed changes. **Back-checker** is responsible for reviewing all items on the drawing including items marked by **checker**.

- Agreement is shown with a green check mark ✓.
- Disagreement is discussed with checker and noted with a green STET upon concurrence with original value.

All agreed upon changes are made to the original document by the **updater**.

• Items are **circled in blue** to show that the change has been made.

All updates to the document are verified for completeness and correctness by the **verifier** (usually the **checker**).

• Blue circles are highlighted in yellow to show that updates were made.

Once complete, there should be two copies of the plans. One yellow highlighted copy with changes noted in red, agreement in green, blue circle to note the change is made and yellow over the blue indicating the change has been verified. The second copy is the clean, corrected copy and will be the official deliverable document. Both files shall be uploaded to the Team SharePoint site.

A basic checking procedure is displayed below:



2.1 LEVELS OF REVIEW

There are two levels of review that are utilized within the QC process, as defined below. A given project task could receive a Level 1 or a Level 2 review, or both as deemed appropriate by the supervisor or team leader.

Level 1 - 100% checking of a produced document to include drawings, calculations, spreadsheets, special provisions, tables within reports, program input, graphic elements for reports or presentations, design programs, CADD modeling input.

Level 1 - 100% Document Check

- · Check everything on a sheet.
- · Use the appropriate standard checking format.
- Document checking procedures on an attached check print sign off sheet or by check print stamp (see Appendix for examples).
- Copy and upload original checked documents as color PDF files to the project QC directory, to await audit.

Level 1 - 100% Input Check

- · Checking is only for input data.
- Use the appropriate standard checking format
- Verify that the software or spreadsheet used is appropriate.
- LADOTD pre-approved software does not require validation.
- Verify any previously prepared MathCad and Excel spreadsheets.
- Document checking procedures on an attached check print sign off sheet (see Appendix).
- Copy and upload original checked documents as color pdf files to the project "QC" directory, to await audit.

Level 2 - Peer or senior technical review of documents to include drawings, calculations, report text, CADD documents, shop drawings and RFIs, presentation materials and QA checklists; inter-disciplinary, constructability and independent technical reviews; review and oversight of subconsultant submittals.

- · Check or validate only specific items as determined by the supervisor or team leader
- Use the appropriate standard checking format.
- Document checking procedures on an attached check print sign off sheet or by check print stamp (see Appendix for examples).
- Copy and upload original checked documents as color PDF files to the project QC directory, to await audit.



3.0 QUALITY ASSURANCE PROCESS

QA is defined as the systematic activities implemented to provide confidence that the QC processes are followed in compliance with the QMP. These are our audit processes for verifying that the appropriate checking procedures have been performed and documented, and our corrective action plans for addressing problems have been identified within the processes. The keys to an effective quality program lie in the accountability, compliance and continual improvement of the program.

Once the QC processes have been performed, a QA process must be implemented to confirm that the QC procedures were performed to the expectations documented in the QMP. The following procedures should be part of the assurance/validation process.

3.1 Audits

Each consultant shall be responsible for uploading their quality checked files onto SharePoint for QA and notifying the QPM. The QPM will audit the QC records prior to each submission to confirm that all QC procedures have been performed for each task of the deliverable, and record the findings on associated form (see Appendix). Upon approval of the quality documents, the QPM will move each approved document into the project quality records folder and will inform the supervisor or team leader that the submittal is ready for release to the client. The office leader will also receive a hard copy of that verification.

Additionally, the HNTB office quality manager may choose this project for review at an executive level. An audit may be performed similar to the routine project audit, but will also include interviews with staff to determine if the quality management process is clearly understood and is being performed unbiased and independent of the design or production process.

The purpose of the audit is two-fold:

- · Identify and correct a breakdown in quality or any instance of noncompliance to established HNTB best practice procedures through a defined corrective action plan.
- · Identify opportunities for implementation of preventive action, training and continual improvement processes to enhance quality, efficiency and value to our projects and clients.

All audit findings should be documented as a part of the quality records.

3.2 Corrective Action and Preventive Action Plans

A corrective action plan (CAP) is a strategy for correcting or eliminating a problem impacting project quality or performance that has already occurred or been identified. The focus of the plan is to systematically review the root cause of the problem in an attempt to prevent the problem from recurring. The primary concepts of the plan are as follows:

- Task leads identify the problem and present to PM or QPM
- Determine the cause of the problem or unintended result
- Identify action items or plan to correct to the problem

Preventive actions are implemented in response to the identification of a trend that would potentially impact quality and lead to a project issue or problem. Preventive action is considered as a proactive undertaking. For example, if we anticipate a potential problem and take action to eliminate the causes and prevent the occurrence of that problem, this is considered to be preventive action.

If a problem or breakdown in quality is discovered during an audit, the PM will be notified immediately. The PM and QPM will perform a root cause analysis to determine the extent of the problem and develop a CAP for implementation. A follow-up meeting will be conducted with all responsible individuals to convey the CAP expectations. If a resolution cannot be reached, the office leader will become involved in the process.



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4.0 QUALITY MANAGEMENT IMPLEMENTATION

For a quality program to be effective, it must be planned and implemented as part of the project work plan, and budgeted accordingly. A QMP log - Form 1.0 (see Appendix) should be filled out by the PM for every project, incorporated into the Project Work Plan and forwarded to the QPM for execution.

Proper documentation of the process throughout is also key to successfully managing quality. The following file structure should be set up within the project directory for each project:

\Job Folder\QMP\Deliverable Name\QC (local server)

\Job Folder\QMP\Deliverable Name\QA (SharePoint)

\Job_Folder\QMP\Deliverable Name\Quality Records (SharePoint)

\Job Folder\QMP\Deliverable Name\Client Deliverable (SharePoint)

The **QMP** folder will contain the QMP log (Form 1.0) and all project specific quality requirements, checklists, etc.

The QC sub-folder will receive each task item or deliverable that has been produced and is ready for review. Each deliverable will be accompanied by either Form 2.0 or Form 3.0, as determined by the PM or task leader. All assigned checkers will go here to get their assigned documents.

The **QA** sub-folder will receive each completed item or deliverable from the QC folder along with a completed Form 2.0 or Form 3.0. The PQM will go here to find all documents ready for QA.

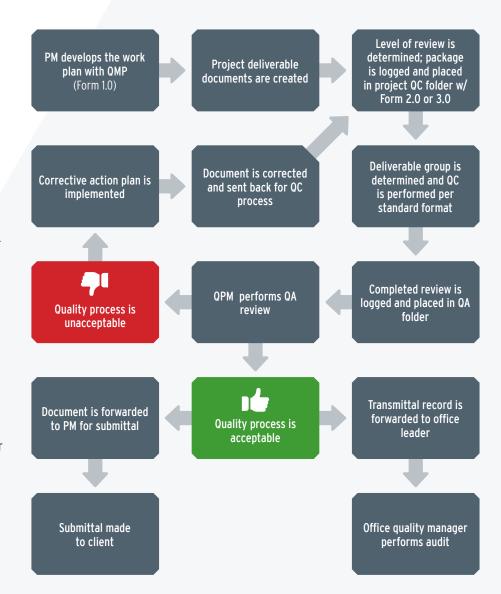
The **Quality Records** sub-folder houses all completed quality documentation that has been signed off by the QPM and the PM, all audit findings and CAP documentation.

The Client Deliverable folder houses only clean files which have completed QC/QA procedures that are to be submitted to the client.

4.1 QMP Process Diagram

The diagram depicts all key activities and the work flow required for the quality management process. This diagram is only intended as a guide and can be supplemented as required by the PM or QPM, based upon project complexity or client requirements.

Quality Process Diagram





5.0 DELIVERABLES

All deliverables submitted to the LADOTD will be subject to QC/QA as described in our QMP. A specific list of deliverable and milestones will be developed and described in the contract scope of work.

6.0 APPENDIX

FORM 1.0 - QUALITY MANAGEMENT PLAN LOG

FORM 2.0 - LEVEL 1 CHECK PRINT SIGN-OFF SHEET

FORM 3.0 - LEVEL 2 REVIEW MEMORANDUM

FORM 4.0 - QUALITY AUDIT CHECKLIST

FORM 5.0 - CORRECTIVE ACTION LOG/ PREVENTIVE ACTION LOG

Sample Check Print Stamps

Sample Quality Plan from Work Plan

LADOTD QC/QA Certification

LADOTD Consultant Submittal QC/QA Certification

HNTB						FORM 1.0
	(Quality N	Janagement	Plan Log	g	
Project Description:			Job No.			
Project Fee:			QA/QC Budget:			
Deliverable		QA/QC Budget	Review Level	Reviewer	Date	Completed
			1			



FORM

3.0

HNTB

Movable Bridge Quality Man	agement	Plan	FORM	2.0			
LEVEL 1 CHECK PRINT SIGN-OFF SHEET							
Client Name:							
Job Title:							
Job Number:							
Document Title:							
Check Level (Mark One):		1 - 100% Document Check					
		1 - 100% Input Check (When Pre-Validated Softw	are in Used)				
		Name R	leceived Date	Completion Date			
Originated By:							
Checked By:							
Backchecked By:							
Verified By:							
Comments:							

HNTB

Movable Bridge Quality Mar	agement Plan	FORM	3.0
	LEVEL 2 REVIEW MEMORAND	DUM	
Client Name:			
Job Title:			
Job Number: Document Title:			
Check Level (Mark One):	Studies or Report Type Documents Documents Prepared by Others Checklist CADD QC Audit Other Specify below:		
	Name	Received Date	Completion Date
Reviewed By:			
Review Findings:			





QUALITY AUDIT CHECKLIST

AUDITED AREA:	DA	TE(S)	OF AUD	IT:	
AUDITOR:		AU	DIT:		
AUDIT ITEM	REFERENCE	METHOD VERIFICATION	OF ON	CONFOR	RMS NO
Have computer programs utilized been validated?	QMP Group D	Review valida records.	ation		
2. Are calculation check prints available?	QMP Group B	Review origi and check pri			
3. Were calculations checked prior to drawing checking?	QA Folder, QMP Log	Review cl prints.	heck		
4. Are drawing check prints available?	QMP Group E		cord heck		
5. Are check prints of specifications available?	QMP Group A		cord heck		
6. Is checking of input to computer programs being accomplished?	QMP Group B	Review origi and check pri			
7. Are check prints of studies or report- type documents available?	QMP Group A	Review cl prints.	heck		
8. Are procedures for marking up check prints being followed? Checker - Yellow/Red Backchecker - Green Updater - Blue Verifier - Yellow	QA Folder	Review cl prints.	heck		
10. Are check prints properly signed and dated?	QA Folder	Review che prints.	heck		
11. Are plan reviews completed?	QMP Log	Review pack to verify comment sh are available.	that neets		
12. Are the review comments incorporated into the final documents or disposed of as otherwise noted?	QA Folder	Review verification Design Rev comments h	for that riews have		

		incorporated. Review for verification that comments from prior Design Reviews have been incorporated.	
13. Are check prints of graphic elements available?	QMP Group C	Review check prints.	
14. Are all checklists validated?	QMP Group D	Review check prints.	



Corrective Action Log

Form 5.0

HNTB - Quality Manager:

Project #	PM or PQM	Issue Summary	Corrective Action	Implemented
			Updated schedule for additional time	
			for subs; weekly conference calls	
12345	Joe Smith	Subs delayed project submittal	initiated	1/1/2012

Preventative Action Log

HNTB - Quality Manager:

Project #	PM or PQM	Issue Summary	Preventative Action	Implemented
		Task 50% complete - 65%		
12345	Joe Smith	spent	Weekly monitoring by PM	1/1/2012

Sample Check Print Stamps

CHECKING PRINT

Checked b	у	Date
Back Checked by	y	Date
Corrected b	y	Date
Tracing Signed by	y	Date

AUXILIARY CHECKING PRINT NO.____

Checked by	Date
Back Checked by	Date
Corrected by	Date
Tracing Signed by	Date



DOTD QC/QA Certification

Project No.: H.0XXXXX

Project Name: XXXXXXXXXXXXX

We, the undersigned designers, detailers, checkers and reviewers for this project, have reviewed and accepted the calculations, plans, quantities, special provisions, and cost estimate prepared for the project. We certify that the work for which we are responsible has been completed in accordance with the LADOTD Bridge Design Section policy on QC/QA.

Team Members	Name	PE Registration No.	Responsible Plan Sheets	Responsible Special Provisions	Construction Cost Estimate	Signature
Designers						
Dooign						
Design Checkers						
Checkers						
Detailers						
Detail						
Checkers						
Checkers						
Reviewers						
Peer						
Reviewer						
Geotechnical						
Engineer						
Hydraulic						
Engineer						
EOR						

DOTD Consultant Submittal QC/QA Certification

Project No.: H.0XXXXX

Project Name: XXXXXXXXXXXX

I, the undersigned Supervisor or Team Leader for this project, certify that the information included in this submittal has been prepared in accordance with the QC/QA plan documents and LADOTD Bridge Design Section policy on QC/QA and the information presented is accurate and meets the requirements of this submittal. All CAD drawings meet LADOTD CAD standards.

Submittal Description		
Supervisor or Team Leader Name	Signature	Date





22. Subconsultant Information			
Firm Name (as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
APS Engineering and Testing, LLC	1645 Nicholson Drive	Sergio Aviles, PE	225.456.5714
	Baton Rouge, LA 70802	sergio@aps-testing.com	
Arcadis US, Inc.	10352 Plaza Americana Drive	Akhil Chauhan, PE, PTOE, PTP, PMP	225.292.1004
	Baton Rouge, LA 70816	akhil.cahuhan@arcadis.com	
Cambridge Systematics	101 Station Landing, Suite 410	Steve Capecci	781.539.6724
	Medford, MA 02155	scapecci@camsys.com	
ELOS Environmental, LLC	607 W. Morris Avenue	Lucas Watkins	985.662.5501
	Hammond, LA 70403	<u>lwatkins@elosenv.com</u>	
Forte and Tablada, Inc.	9107 Interline Avenue	Brad Holleman, PLS, El	225.927.9321
	Baton Rouge, LA 70809	bholleman@forteandtablada.com	
GOTECH, Inc.	8383 Bluebonnet Boulevard	Rhaoul A. Guillaume, Sr., PE	225.766.5358
	Baton Rouge, LA 70810	rhaoul@gotech-inc.com	
Manning, APC	650 Poydras Street, Suite 1250	Tighe Kirkland, Assoc. AIA	504.412.2000
	New Orleans, LA 70130	tbk@manning.xyz	





23. Location

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