

PROPOSAL

REPLACEMENT OF BUNKER HILL ROAD BRIDGE OVER HOP RIVER BRIDGE #04583 RFP AN-2024-25 01 BRIDGE CONSTRUCTION INSPECTION SERVICES ANDOVER, CONNECTICUT



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Submitted To:

Jeffrey Maguire, First Selectman Town of Andover 17 School Road Andover, CT 06232

TECTONIC PN 24-0203

Submitted By:

Jeffrey A. Scala, P.E., NBIS Vice President & Project Manager JScala@tectonicengineering.com 800.829.6531

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Suite 201 148 Eastern Blvd, Glastonbury Ct 06033 tectonicengineering.com





Mr. Jeffrey Maguire, First Selectman Town of Andover 17 School Road Andover, CT 06232

February 22, 2024

Re: RFP – AN-2024-25 01 – Replacement of Bunker Hill Road Bridge over Hop River Bridge #04583

Dear Mr. Maguire,

TECTONIC has many years of experience performing CEI services directly relevant to the Upland Road Bridge Reconstruction. We have performed construction inspection on several similar projects for municipalities across Connecticut and for the Connecticut Department of Transportation, following CTDOT policies and procedures while using prescribed CTDOT, MSAT and LOTCIP documentation. **All of our staff proposed have CTDOT experience and we have the available resources and leadership to provide outstanding services to the Town in this capacity**.

If selected for this assignment, **all work will be performed out of our Glastonbury, CT office** with Connecticut-based staff. The accompanying materials document our experience, qualifications, and capacity to see the project through to completion in a professional and comprehensive manner. We possess a thorough understanding of roadway construction and have the overall depth of resources and equipment to undertake this project. Personnel proposed for this project possess the requisite experience, knowledge, and credentials meeting CTDOT requirements. Our proposed team is intimately familiar with oversight, reporting, and documenting procedures including use of CTDOT's 4-book system procedures. All staff exceed the requirements outlined in the RFQ.

Please see our Technical Approach and detailed Scope of Services proposed for your project in Section H of the SF 330.

We look forward to the opportunity to meet with your selection panel to discuss our qualifications, relevant experience, and project approach in further detail. If you require additional information, please contact us at 860-563-2341.

Sincerely, **TECTONIC** Engineering Consultants, Geologists & Land Surveyors, D.P.C., Inc.

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Jeffrey A. Scala, PE, NBIS Senior Vice President



GENERAL FIRM INFORMATION

TECTONIC Engineering Consultants, Geologists & Land Surveyors, D.P.C., Inc. (Tectonic) offers a full spectrum of professional engineering and design services to match its clients' growing needs. Established in 1986, Tectonic has grown to become a multi-disciplined engineering firm with a staff of approximately 500. As one of the top 500 Engineering News-Record engineering design firms, since 2001, Tectonic is committed to providing a well-organized, thorough, and practical team that delivers a timely, economical, and quality work product offered from offices located in the Northeast.

Tectonic's mission is to provide the highest level of quality and service; therefore, we concentrate our services on market sectors that reflect the strength and talent of our staff. Our core services include civil, structural, geotechnical, environmental, and transportation engineering, surveying, cultural resource management, design engineering (including planning and permitting), construction management, construction and materials testing.

From our 35 years of experience supporting local communities with various engineering and construction inspection services, we understand the fiscal constraints the local communities are operating under and bring that sensitivity to your project. Time, cost, and quality control are the major objectives of every client, and each construction project requires specialized project management activities to meet these goals. Our personnel have the technical knowledge, as well as the practical experience, to provide solutions before a problem impacts the project schedule or budget.

In addition, Tectonic maintains two fully equipped in-house materials testing laboratories that comply with ASTM E329, and are AASHTO accredited. Our materials testing division is one of a few laboratories between Boston and Washington, D.C. operated as part of a professional engineering company, which has proven to provide a higher level of quality and integrity over the long term.

Our unique blend of engineering expertise, management experience, environmental awareness, and construction specialties enables our firm to handle projects from concept through completion, efficiently and effectively.

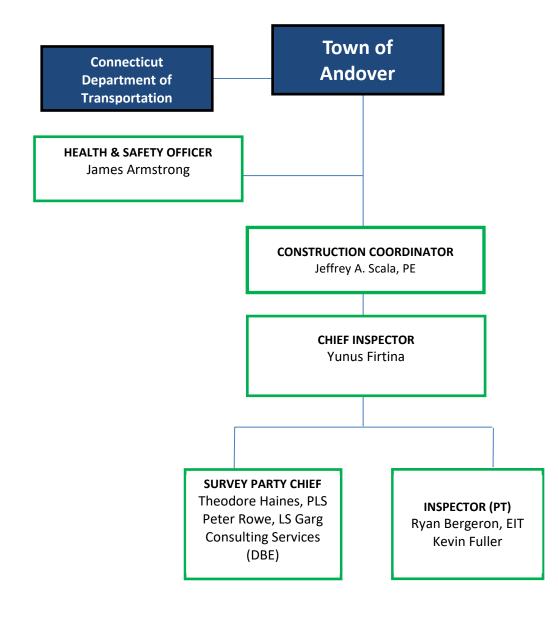
Tectonic is honored as one of Engineering News-Record's Top 500 Design Firms since 2001 and has garnered numerous Engineering Excellence Awards from the American Council of Engineering Companies (ACEC).

ARCHITECT – ENGINEER QUALIFICATIONS

PART I – CONTRACT SPECIFIC QUALIFICATIONS

	A. CONTRACT INFORMATION								
٦	1. TITLE AND LOCATION (City and State) Town of Andover								
<u> </u>	Replacement of Bunker Hill Road Bridge over Hop River Bridge #04583 - Construction Inspection Services 2. PUBLIC NOTICE DATE 3. SOLICITATION OR PROJECT NUMBER								
	January 24, 2024 RFP AN-2024-25 01 Bridge Construction Insp. Services								
				B. ARCHITECT –	ENGINEER POINT OF CONTACT				
			TITLE	ıla, PE, Senior Vice President					
5. N	IAME	OF F	IRM						
			Engir E NUN		d Surveyors, D.P.C., Inc., Glastonbury,	CT 06033 Tectonic			
			3-23		jscala@tectonicengineerii	ng.com			
				C.	PROPOSED TEAM				
	r			(Complete this section for t	he prime contractor and all key subcontractors	.)			
	(Chec ~	k)						
	ИE	J-V PARTNER	SUBCON-	9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT			
	PRIME	v paf	SUBC						
		<u>-</u> -							
				Tectonic Engineering Consultants,	148 Eastern Boulevard, Suite 201 Glastonbury, CT 06033	Construction Coordination,			
a.	х			Geologists & Land Surveyors, D.P.C, Inc. (TECTONIC)	Glastonbury, CT 06033	Construction Inspection, and Construction Administration			
				CHECK IF BRANCH OFFICE					
				Garg Consulting Services Inc	2053 Silas Deane Highway Rocky Hill CT 06067	Construction Survey			
b.			x	Carg Consulting Services Inc					
υ.			^	CHECK IF BRANCH OFFICE					
c.									
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f.									
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D-		GAN		TIONAL CHART OF PROPOSED TEA	M	🛛 (Attached)			
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STANDARD FORM 330 (REV. 8/2016)



LEGEND

TECTONIC STAFF

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)							
12. N	AME frey A. Scala, P.E., NBIS	13. ROLE IN THIS CONTRACT Projec	t Manager		14. YEARS EXPER a. TOTAL 35	b. WITH CURRENT FIRM	
	15. FIRM NAME AND LOCATION (<i>City and State</i>) Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C., Inc., Glastonbury, CT 06033						
16. EI B.S. RI (18. 0 ASC	 16. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) 17. CURRENT PROFESSIONAL REGISTRATION (<i>STATE AND DISCIPLINE</i>) 18. OTHER PROFESSIONAL QUALIFICATIONS (<i>Publications, Organizations, Training, Awards, etc.</i>) ASCE, NCEES, ACEC, CCSU Industry Advisory Board, Storm Water Quality Design, FHWA – AASHTO Roadside Design, FHWA – Design and Operation of Work Zone Traffic Control, FHWA – Geometric Design of Roadways, IRWA – Legal Aspects of Easements and Property Acquisition, Impact 						
	gation		ANT PROJECTS				
	(1) TITLE AND LOCATION (City and State) 170 Byram Lake Road Culvert Rep			(2) YEAR COMPLETE PROFESSIONAL SERV 2022-Ongoin	/ICES	CONSTRUCTION (if applicable)	
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AN This project involve the replacemen consultant engineering services to analysis, permit preparation, geote overseeing the project and managin	nt of an existing culvert a the Town for the replace echnical investigatio, traf	ement, includin	Check i ake Road in Ne ng: topographi	if project performe w Castle, N۱ c survey, , st	tructural design, hydraulic	
	(1) TITLE AND LOCATION <i>(City and State)</i> North Main Street Over West Bran CT	nch of Trout Brook, Wes	st Hartford,	(2) YEAR COMPLETE PROFESSIONAL SERV 2017		CONSTRUCTION (<i>if applicable</i>) 2022	
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AN Providing complete survey and bric includes uncovering the arches to p parapets, partial and full depth pa upgrades, utility coordination and construction phase.	lge design services to fu rovide repairs and water atching on the insides c	proofing, remo of the arches a	the bridge. Th oval of the end and installation	is triple arcl sections to n of scour o	rebuild the headwalls and countermeasures. Safety	
	(1) TITLE AND LOCATION (City and State) Rehabilitation of Tuckahoe Road Yonkers & Tuckahoe, NY	Bridge over the Bronx I	River,	(2) YEAR COMPLETE PROFESSIONAL SERV 2018-Onging		CONSTRUCTION (if applicable)	
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager - The \$1M rehabilitation design of the bridge carrying Tuckahoe Road over the Bronx River (BIN 3364940), at the town line of Tuckahoe and Yonkers, New York. The scope of work consisted of the removal and replacement of pavement, curbs and sidewalks; excavation and removal of materials to expose the top of the rigid frame; cleaning, repairing and waterproofing the rigid frame; major resetting and repointing of the stone parapets and wingwalls; and possible relocation of the existing gas mains and telephone ducts. Scour countermeasures were also required to ensure long-term durability of the structure.						
	(1) TITLE AND LOCATION (City and State) Design and Construction Inspect Street Bridge over Padanaram Br		on of Crosby	(2) YEAR COMPLETE PROFESSIONAL SERV 2015		CONSTRUCTION (<i>if applicable</i>) 2016	
d.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AN As part of Tectonics' On-Call Bridge Street Bridge over Padanaram Broc 1899 and is listed by the Connection width of 31.8' which is adequate for	D SPECIFIC ROLE Engineering Services for ok near the center of the cut Department of Trans	city. The existi portation as ar	Check i onic provided f ing two span si n historic bridg	ull rehabilita tone mason ge. The exist	ed with current firm ation design for the Crosby ry arch bridge was built in ting bridge has a roadway	

	(1) TITLE AND LOCATION (City and State) Replacement of the Bigelow Hollow Access Road Culvert over	(2) YEAR COMPLETED PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)			
	Bigelow Brook Union, Connecticut.	2011	2013			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project perform	ned with current firm			
	Tectonic provided on-call engineering services for this bridge design. Th					
	Hollow Access Road Culvert that was damaged during heavy rain in Octobe	-				
•	long, 54" diameter steel pipe of riveted steel plates with four (4) foot long	-	-			
e.	headwalls were constructed of mortared stone masonry, except for the s	-				
	3.0' x 2.5' concrete blocks. The new structure entailed replacing the culver	-				
	culvert, including approximately 36 ft. long walls at each end of the culve		-			
	including, survey, stage construction, geotechnical investigation and repo	ort, hydrology, hydraulic a	and scour analysis reports.			
	Construction Coordinator during the construction phase.					
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED				
	ConnDOT – (SPN 0102-0348) Construction Engineering and Inspection Services for Bridge #00059, I-95 "Yankee Doodle Bridge"	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)			
	over Norwalk River and Hendricks Avenue; Norwalk, CT		2018 - Ongoing			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project perform	ned with current firm			
	Project Manager: The project goal is to rehabilitate the bridge to provide a					
	seven (7) span structure, built across the Norwalk River, is 911 feet long, 12					
	in each direction (average daily traffic is 149,400). The rehabilitation in					
f.	deficient structural steel, replacement of the navigation lighting, repair of	box beam approach guid	e rail, replacement of deck			
	expansion joints, repair of the deck and substructure concrete, stabilization of the west abutment embankment and installation					
	of a sedimentation pond, upgrades to the parapet and median barrier, maintenance of the existing sidewalk, diamond grinding					
	of the latex modified concrete wearing surface, cleaning of the bridge deck scuppers, and replacement of bridge drainage.					
	Tectonic provided construction engineering and inspection, construction management, contract administration, technical					
	inspection, and processing all payment estimates to the contractor. The total cost is an estimated \$27.5 Million. The anticipated					
	completion date is September 2022. Construction Project Manager during the construction phase.					
	completion date is September 2022. Construction Project Manager during	the construction phase.				
	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED				
	(1) TITLE AND LOCATION (City and State) ConnDOT – (SPN 0063-0633) Route 44 (Albany Avenue) Operational, Safety, and Streetscape Improvements Project;		CONSTRUCTION (if applicable)			
	(1) TITLE AND LOCATION (City and State) ConnDOT – (SPN 0063-0633) Route 44 (Albany Avenue)	(2) YEAR COMPLETED PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)			
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	 (1) TITLE AND LOCATION (<i>City and State</i>) ConnDOT - (SPN 0063-0633) Route 44 (Albany Avenue) Operational, Safety, and Streetscape Improvements Project; Hartford, CT (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager: The project spanned a 1.14-mile section of Albany Avenu and pedestrians. Extensive streetscape work addressed accessibility, c drainage modifications were also included. The project included intersect to the traffic flow. Traffic signal improvements included the replacement (4) new signals, and the removal of one (1) signal. Milling and overlaying performed, which was more than 6,000 feet on Albany Avenue and side is granite curbing, concrete sidewalks, paver bandings, bulb outs, crosswal other plantings, bus shelters, and other site amenities. Tectonic provided cc management, contract administration, technical inspection, and processing of the project is \$22M. Substantial completion: November 2020. Construct (1) TITLE AND LOCATION (<i>City and State</i>) ConnDOT - (SPN 0085-0142) Pavement Preservation of I-395; Norwich, CT (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager: This 7-month \$11M project started in May 2013 and was the resurfacing of approximately 18 miles of I-395 from Interchange 79A (in Norwich. The work included milling off 3" of existing pavement and place 	(2) YEAR COMPLETED PROFESSIONAL SERVICES Check if project perform e and was constructed to onnectivity, vehicle acce ion improvements, realig of seven (7) existing sign of all of the roadways wi streets. Operations include ks, ornamental lighting, onstruction engineering and g all payment estimates to tion Project Manager dur (2) YEAR COMPLETED PROFESSIONAL SERVICES Check if project perform completed in November Route 2A) in Montville to acing a 1" lift of HMA S0.2 es were located within the oncrete wearing surface, p	2020 red with current firm improve safety for vehicles ss, and operations; minor nments, and modifications als, the installation of four ithin the project limits was ded the installation of new extensive street trees and nd inspection, construction the contractor. Total cost ing the construction phase CONSTRUCTION (<i>if applicable</i>) 2013 red with current firm 2013. This project included Interchange 83 (Route 97) 25 leveling course and a 2" e project limits. Bridgework placement of asphaltic plug			

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED					
	ConnDOT –Pavement Rehabilitation I-91 Hartford and Windsor; Hartford/Windsor, CT	PROFESSIONAL SERVICES	CONSTRUCTION (<i>if applicable</i>) 2016				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project perform	ned with current firm				
	Project Manager: Responsible for this CEI project involving milling and pavi						
i.	basins, inspection of asphaltic plug joints, expansion joints on both NB and						
	Also responsible for daily work reporting in Site Manager, approval of						
	operations center on a daily basis as well as oversight of MPT operation						
	Construction Project Manager during the construction phase.						
	construction roject manager daming the construction phase.						
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED					
	Town of Rocky Hill; Design and Construction Inspection for the Old	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)				
	Main Street over Goff Brook; Rocky Hill, CT	2009	2009				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project perforn	ned with current firm				
	Project Manager: Supervised an in-depth inspection of the bridge inclu	iding material sampling	and testing and condition				
j.	evaluation report preparation. Tectonic was commissioned by the Town of	Rocky Hill to design corre	ective measures to mitigate				
	the bridge's deficiencies. These measures included partial replacement of	the bridge slab, substruc	ture repairs, installation of				
	new concrete parapets and approach guide rails. The work also included t	the design and reconstru-	ction of approximately 200				
	linear feet of approach roadways. Tectonic also provided construction in	spection services. The to	tal cost of this project was				
	\$165,000. Construction Coordinator during construction phase.						
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED					
	Design and Construction Inspection for the Replacement of South	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)				
	Maple St. Bridge, and Roadway Reconstruction of South Maple St. and Powder Hill Road, Enfield, CT	2011	2012				
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Check if project performed with current firm						
	Project Manager: Provided design services for the replacement of the substandard South Maple Street Bridge over the Scantic						
k.	River and the reconstruction of the South Maple Street and Powder Hill Road roadway approaches to provide adequate travel lanes and shoulders between the new bridge and the existing road. Tectonic performed bridge condition inspection of existing						
	structure, prepared the preliminary bridge design report, design develop						
	PS&E bid documents. Construction support include bid phase services, sho						
	was constructed in only 4 months. Tectonic provided periodic inspection at critical points during construction. Construction Coordinator during construction phase.						
	coordinator during construction phase.						
		(2) YEAR COMPLETED					
	(1) TITLE AND LOCATION (City and State)	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)				
	Upper Collinsville Dam, Canton, Connecticut.		2022				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project perforn	ned with current firm				
	Project Manager: This project is for the re-development of the dam that w	as started in 2015 for the	e town with Canton Hydro				
	LLC as the project's developer and WWS Wasserkraft as the turn-key solution provider. Tectonic was hired as the design build						
	engineering and inspection consultant in 2018. It is a 1 megawatt (MW) hydroelectric facility and is projected to generate an						
	average 4.3 million kWh of renewable energy annually into the grid. Tectonic provided the structural design for the new one-						
	story fish monitoring building and the powerhouse building modifications	-	-				
I.	the turbine equipment, reinforced concrete slab bridge design for vehicular access to the building, mass reinforced concrete						
	beam design, turbine draft tube reinforced concrete design, concrete transformer pad design, and stability analysis. All the						
	design was performed following the Federal Energy Regulatory Commission (FERC) Engineering Guidelines, AASHTO LRFD, ACI-						
	318, ACI-350 (for under water concrete), ASIC Steel Manual, and FHWA-IF-99. Tectonic also provided survey and construction						
	inspection for the entire project, including grouted rock anchor inspec	•					
	inspection for the entire project, including grouted fock anchor inspections prior to concrete pours, concrete pour testing and sampling,						
			-				
	activities, and shop drawing review and approval. Total project cost w	vas sto minion. Constr	action coordinator during				
	construction phase.						

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED			
	Project L128-0001 Multi-use Trail Project from Bloomfield to	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
	Tariffville in Simsbury.		2023		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project perform	ned with current firm		
	Project Manager: LOTCIP Project L128-0001 is a Bloomfield to Tariffville (Simsbury) Multi-Use Trai	I Connector. The Project is		
	approximately .87 miles of paved 10-foot-wide recreational trail along Rou	te 189, with intersection	improvements and related		
m.	work which connects to an existing multi-use trail in Bloomfield. This pro				
	widening, storm drainage structure installation, as well as construction of	new sidewalks and ADA	compliant ramps for better		
	pedestrian access. A section of the roadway (Route 189) was milled and	l widened to provide a s	uperelevated right lane to		
	accommodate the new multi-use trail. There are major intersection improve	ements to improve the ali	gnment and accommodate		

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the traffic lane shifts and numerous pedestrian traffic control devices are to be installed. Construction Coordinator during construction phase.

		(2) YEAR COMPLETED				
	(1) TITLE AND LOCATION (City and State)	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)			
	Project L128-0002 Hop Meadow Street Connectivity, Simsbury.		2024			
		Check if project per	rformed with current firm			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE					
n.	Project Manager: LOTCIP Project L128-0002. This project involves furnishi	-				
	construction of a sidewalk corridor along the west side of Hopmeadow St	u				
	and continuing north to the CTDOT Storage Facility/Park n' Ride. The des	sign will include a 5ft v	vide concrete sidewalk along			
	Hopmeadow Street that is approximately 4,400 LF with a varying snow sh	elf for a majority of the	e project area.			
	Construction Coordinator during construction phase.					
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED				
	Project L093-0001 Maple Avenue and Robbins Avenue Complete	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)			
	Streets Improvements, Newington, Connecticut.		2023			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project per	rformed with current firm			
	Project Manager: LOTCIP Project L093-0001. This project involves resurface					
		• • • •	•			
~	Avenue and Robbins Avenue beginning at New Britain Avenue (CT Route 174) and ending at Main Street (CT Route 176). Work					
о.	includes, but is not limited to, milling of the existing pavement, crack sealing, repaving with hot mix asphalt, minor roadway					
0.						
0.	widening, installing new catch basins and pipes, replacing catch basin tops	s, sidewalk and accessit	ole curb ramp improvements,			
ο.	widening, installing new catch basins and pipes, replacing catch basin tops traffic signal improvements, pavement markings, replacing and re	s, sidewalk and accessib esetting signs, landsc	ble curb ramp improvements, aping and other necessary			
0.	widening, installing new catch basins and pipes, replacing catch basin tops	s, sidewalk and accessib esetting signs, landsc	ble curb ramp improvements, aping and other necessary			
ο.	widening, installing new catch basins and pipes, replacing catch basin tops traffic signal improvements, pavement markings, replacing and re	s, sidewalk and accessib esetting signs, landsc	ble curb ramp improvements, aping and other necessary			
ο.	widening, installing new catch basins and pipes, replacing catch basin tops traffic signal improvements, pavement markings, replacing and re appurtenances such as maintenance and protection of traffic. Construction	s, sidewalk and accessit esetting signs, landsc on Coordinator during c	ole curb ramp improvements, aping and other necessary construction phase.			
0.	widening, installing new catch basins and pipes, replacing catch basin tops traffic signal improvements, pavement markings, replacing and re appurtenances such as maintenance and protection of traffic. Construction (1) TITLE AND LOCATION (<i>City and State</i>)	s, sidewalk and accessik esetting signs, landsc on Coordinator during c	ole curb ramp improvements, aping and other necessary construction phase.			
0.	widening, installing new catch basins and pipes, replacing catch basin tops traffic signal improvements, pavement markings, replacing and re appurtenances such as maintenance and protection of traffic. Construction	s, sidewalk and accessit esetting signs, landsco on Coordinator during c	ole curb ramp improvements, aping and other necessary construction phase.			
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о. р.	widening, installing new catch basins and pipes, replacing catch basin tops traffic signal improvements, pavement markings, replacing and re appurtenances such as maintenance and protection of traffic. Construction (1) TITLE AND LOCATION (<i>City and State</i>) Baker Hollow Road – Construction Inspection Services, Windsor CT	s, sidewalk and accessit esetting signs, landscr on Coordinator during c (2) YEAR COMPLETED PROFESSIONAL SERVICES Check if project per	construction phase.			
	widening, installing new catch basins and pipes, replacing catch basin tops traffic signal improvements, pavement markings, replacing and re appurtenances such as maintenance and protection of traffic. Construction (1) TITLE AND LOCATION (<i>City and State</i>) Baker Hollow Road – Construction Inspection Services, Windsor CT (3) BRIEF DESCRIPTION (<i>Brief scape, size, cost, etc.</i>) AND SPECIFIC ROLE	s, sidewalk and accessit esetting signs, landsci on Coordinator during c (2) YEAR COMPLETED PROFESSIONAL SERVICES Check if project per Road from Old Poquo	construction phase.			
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	 widening, installing new catch basins and pipes, replacing catch basin tops traffic signal improvements, pavement markings, replacing and reappurtenances such as maintenance and protection of traffic. Construction (1) TITLE AND LOCATION (<i>City and State</i>) Baker Hollow Road - Construction Inspection Services, Windsor CT (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager: This project involves the construction of Baker Hollow 	s, sidewalk and accessit esetting signs, landscr on Coordinator during c (2) YEAR COMPLETED PROFESSIONAL SERVICES Check if project per Road from Old Poquo e drainage system, curb	construction phase.			
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	 widening, installing new catch basins and pipes, replacing catch basin tops traffic signal improvements, pavement markings, replacing and reappurtenances such as maintenance and protection of traffic. Construction (1) TITLE AND LOCATION (<i>City and State</i>) Baker Hollow Road – Construction Inspection Services, Windsor CT (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager: This project involves the construction of Baker Hollow Road. The project will include a 30 foot wide paved road with an adequate and sidewalks throughout. Construction Coordinator during construction 	s, sidewalk and accessit esetting signs, landsco on Coordinator during co (2) YEAR COMPLETED PROFESSIONAL SERVICES Check if project per Road from Old Poquo e drainage system, curb phase. (2) YEAR COMPLETED	construction phase. CONSTRUCTION (<i>if applicable</i>) 2024 rformed with current firm nock Road to Marshall Phelps ing, water and sewer systems,			
p.	 widening, installing new catch basins and pipes, replacing catch basin tops traffic signal improvements, pavement markings, replacing and reappurtenances such as maintenance and protection of traffic. Construction (1) TITLE AND LOCATION (<i>City and State</i>) Baker Hollow Road - Construction Inspection Services, Windsor CT (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager: This project involves the construction of Baker Hollow Road. The project will include a 30 foot wide paved road with an adequate and sidewalks throughout. Construction Coordinator during construction (1) TITLE AND LOCATION (<i>City and State</i>) Project L164-0007: International Drive Improvements- Construction Inspection Services, Windsor CT. 	s, sidewalk and accessites esetting signs, landsca on Coordinator during con (2) YEAR COMPLETED PROFESSIONAL SERVICES Check if project per Road from Old Poquo e drainage system, curb phase. (2) YEAR COMPLETED PROFESSIONAL SERVICES	construction phase. CONSTRUCTION (<i>if applicable</i>) 2024 rformed with current firm nock Road to Marshall Phelps ing, water and sewer systems, CONSTRUCTION (<i>if applicable</i>) 2023			
	 widening, installing new catch basins and pipes, replacing catch basin tops traffic signal improvements, pavement markings, replacing and re appurtenances such as maintenance and protection of traffic. Construction (1) TITLE AND LOCATION (<i>City and State</i>) Baker Hollow Road – Construction Inspection Services, Windsor CT (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager: This project involves the construction of Baker Hollow Road. The project will include a 30 foot wide paved road with an adequate and sidewalks throughout. Construction Coordinator during construction (1) TITLE AND LOCATION (<i>City and State</i>) Project L164-0007: International Drive Improvements- Construction Inspection Services, Windsor CT. (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE 	s, sidewalk and accessit esetting signs, landsci on Coordinator during co (2) YEAR COMPLETED PROFESSIONAL SERVICES Check if project per chainage system, curb phase. (2) YEAR COMPLETED PROFESSIONAL SERVICES Check if project per	CONSTRUCTION (<i>if applicable</i>) 2024 construction phase. 2024 cformed with current firm nock Road to Marshall Phelps ing, water and sewer systems, 2023 construction (<i>if applicable</i>) 2023			
p.	 widening, installing new catch basins and pipes, replacing catch basin tops traffic signal improvements, pavement markings, replacing and re appurtenances such as maintenance and protection of traffic. Construction (1) TITLE AND LOCATION (<i>City and State</i>) Baker Hollow Road - Construction Inspection Services, Windsor CT (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager: This project involves the construction of Baker Hollow Road. The project will include a 30 foot wide paved road with an adequate and sidewalks throughout. Construction Coordinator during construction (1) TITLE AND LOCATION (<i>City and State</i>) Project L164-0007: International Drive Improvements- Construction Inspection Services, Windsor CT. (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project L164-0007: International Drive Improvements- Construction 	s, sidewalk and accessit esetting signs, landscr on Coordinator during co (2) YEAR COMPLETED PROFESSIONAL SERVICES Check if project per Road from Old Poquo e drainage system, curb phase. (2) YEAR COMPLETED PROFESSIONAL SERVICES Check if project per proximately 4,800 linear	CONSTRUCTION (<i>if applicable</i>) 2024 construction phase. 2024 construction (<i>if applicable</i>) 2024 construction (<i>if applicable</i>) 2024 construction (<i>if applicable</i>) 2023 construction (<i>if applicable</i>) 2023 construction (<i>if applicable</i>) 2023			
p.	 widening, installing new catch basins and pipes, replacing catch basin tops traffic signal improvements, pavement markings, replacing and re appurtenances such as maintenance and protection of traffic. Construction (1) TITLE AND LOCATION (<i>City and State</i>) Baker Hollow Road – Construction Inspection Services, Windsor CT (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager: This project involves the construction of Baker Hollow Road. The project will include a 30 foot wide paved road with an adequate and sidewalks throughout. Construction Coordinator during construction (1) TITLE AND LOCATION (<i>City and State</i>) Project L164-0007: International Drive Improvements- Construction Inspection Services, Windsor CT. (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE 	s, sidewalk and accessik esetting signs, landscr on Coordinator during co (2) YEAR COMPLETED PROFESSIONAL SERVICES Check if project per Road from Old Poquo e drainage system, curb phase. (2) YEAR COMPLETED PROFESSIONAL SERVICES Check if project per Check if project per coximately 4,800 linea ed to, full depth recon	CONSTRUCTION (<i>if applicable</i>) 2024 rformed with current firm nock Road to Marshall Phelps ing, water and sewer systems, CONSTRUCTION (<i>if applicable</i>) 2023 rformed with current firm ar feet of roadway work along struction, milling and paving,			

	E	. RESUMES OF KEY PERSONNEL I (Complete one Section B			ONTRACT			
12. N						14. YEARS EXPE	RIENCE	
		13. ROLE IN THIS CONTRACT	appostor			a. TOTAL		b. WITH CURRENT FIRM
TU	nus Firtina, P.E.	Chief II	nspector			8		2
	RM NAME AND LOCATION (City and State)	eologists & Land Survey	ors, D.P.C., Ir	пс., G	Glastonb	urv, CT 06	5033	
	DUCATION (DEGREE AND SPECIALIZATION)		7. CURRENT PROFESS					E)
Mas	ster of Engineering Civil Engineering, Univ	versity of Hartford, West F	Professional Eng	ineer	: CT #0032	502		
Har	tford, CT							
18. 0	THER PROFESSIONAL QUALIFICATIONS (Publications, Or	ganizations, Training, Awards, etc.)						
ACI	 Concrete Field-Testing Technician, NET 	TCP – Soils and Aggregate Ins	spector					
		19. RELEVAN	T PROJECTS					
	(1) TITLE AND LOCATION (City and State)				AR COMPLETE		1	
	ConnDOT - (SPN 0042-0317) Res		fety	PROFE	SSIONAL SER	ICES		TRUCTION (if applicable)
	Improvements of Route 2; East Ha	artford, CT					202.	2-ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AN	D SPECIFIC ROLE			Check if	project perform	ned with	current firm
	Senior Inspector: Project involves e	xtending the service life o	f Route 2 and	impr	roving saf	etv and tr	affic (operations within the
	section of Route 2 from Maple Stree	-		-	-	-		-
_				• •				
а.	of the underlying concrete paveme	-	-	-			-	
	two (2) bridge deck replacements;					-		
	including the replacement of two (2			-	• • •			
	2; and reconstructing the median	to install a concrete barr	iers and prov	ide w	vider sho	ulders. Ov	erhea	ad sign supports and
	luminaires will be replaced. The pro	ject also includes Incident	Management	Syste	em (IMS)	upgrades a	along	Route 2 and Route 3.
		uminaires will be replaced. The project also includes Incident Management System (IMS) upgrades along Route 2 and Route 3. The total cost is estimated at \$62 million. The anticipated completion date is August 2024.						
					J			
	(1) TITLE AND LOCATION (City and State)			(2) YEA	AR COMPLETE	D		
	CTDOT - (SPN 0063-0703 and 07							
	Relocation I-91 NB Interchange Exit 29 and Widening of Widening of I-			PROFESSIONAL SERV		ICES		TRUCTION (if applicable)
		RT 5/15 NB to I-84 EB. Hartford, East Hartford, CT &					2022	2
	Wethersfield			 				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE			Check if project performed with current firm				
	Senior Construction Inspector: This project consists of the Relocation of Interstate 91 (I-91) Northbound Exit 29 and widening							
	of I-91 Northbound and Routes 5/15	5 Northbound to I-84 Eastb	ound as well a	is the	Resurfac	ing, Bridge	e and	Safety Improvements
b.	of I-91 Northbound and Routes 5/15 Northbound to I-84 Eastbound as well as the Resurfacing, Bridge and Safety Improvements on I-91. Responsibilities included performing inspections such as earthwork, concrete placement, structural steel, reinforcing							
	steel, drainage (catch basin, manhole, concrete pipe, end wall etc.) installation, precast/cast-in-place barrier installation, paving							
	roadway/bridges, traffic sign foundation, highway line striping, electrical related works such as lightening, IMS, camera, cable							
	in duct, rigid metal duct inspections. Conducted field measurements to establish quantities for pay item documentation. Used							
	surveying equipment, Trimble GPS, to collect accurate location data. Created daily reports using DOT Site Manager to							
	document all quantities, equipment, and labor. Reviewed plans, shop drawing and approved submittals for construction.							
	Performed complex quantity and engineering computations.							
	(1) TITLE AND LOCATION (City and State)		idao	(2) YEA	AR COMPLETE	D		
	CTDOT – (SPN 0063-0703 and 0' Relocation I-91 NB Interchange E			PROFE	SSIONAL SER	/ICES	CONST	TRUCTION (if applicable)
	91 NB and RT 5/15 NB to I-84 EB. I							0-2022
	Wethersfield	lartioru, East Hartioru, C					2020	0-2022
					Charlet	project perform		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AN			ا بر ما				
	Construction Inspector: Performed	-						-
с.	Drainage (Catch Basin, Manhole		nstallation, P	recas	st/Cast-in	-Place Ba	rrier	installation, paving
	roadway/bridges, Traffic sign found	lation, electrical work etc.						
	 Conduct field measurements to end 	establish quantities for pay	item docume	ntati	on			
	Create daily reports using DOT Si	te Manager to document a	all quantities, o	equip	ment and	d labor		
	 Review drawings to prepare for t 			1 1				
	 Perform complex quantity and er 	•						
		Bineering computations.						
	(1) TITLE AND LOCATION (City and State)			(2) YEA	AR COMPLETE	D		
c.	Advanced Engineering Technolog	gy Inc. New Haven. CT			SSIONAL SERV		CONST	TRUCTION (if applicable)
	Materials Testing Inc						2014	4-2020

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Special Inspector Check if project performed with current firm

- Prepare special inspection statement
- Follow up and coordinate special inspections

• Perform special inspection such as construction monitoring, inspection of soils, aggregates, cold form framing, wood framing, reinforcement steel, structural steel, pile driving, asphalt inspection, masonry inspection

• Create interim reports as related to progress and issues

• Design shallow foundation, deep foundation, slab, beam, grade beam, column, retaining wall etc under supervison of professional engineer.

• Conducting subsurface investigations in connection with residential building, commercial building and infrastructure projects.

- Generate structural drawing and detailing using Autocad
- Develop proposals and determine cost and schedule for investigation
- Analyse soil samples prepare reports detailing the results
- Visit job sites, determine stability of soil and evaluate bearing capacity for bottom of footing
- Prepare complex engineering reports give professional opinions and find practical geotechnical solution.
- Determine and analysis vertical and horizontal loads that acting over structural elements and foundation.
- Review and interpret drawings and specifications

• Prepare geotechnical engineering reports based on project parameters and site conditions discovered during geotechnical investigations

- Review submittals and RFI
- Provide technical support and solve technical problems
- Work with foreman to ensure structures are built in conformance with the contract requirements

Involved several project but not limited to:

- 1. Q bridge on I-95
- 2. Moses Wheeler Bridge on I-95
- 3. Intersection improvement route 74 & route 195 CT DOT#142 Tolland, CT
- 4. Thames Street rehabilitation City project, Groton, CT
- 5. Aetna insurance parking lot, Hartford, CT
- 6. Meriden DOT Garage
- 7. Waterbury Train Station road and parking project
- 8. City of New Haven Q House
- 9. Natural gas line in Wallingford and Southington, CT
- 10. VA Hospital Road and sanitary project
- 11. Cell Tower projects at various loactions in CT and MA
- 12. Rowland Tech in Wallingford, CT
- 13. Yale Residential College, New Haven, Soil, concrete, structural steel, masonry, etc
- 14. University of Hartford Dormitory project
- 15. Ansonia Police Station
- 16. CVS-Shelton
- 17. CVS-Trumbull
- 18. CVS-Hamden
- 19. Metro Star Residential Project-Milford, CT
- 20 Carter Mario Law office
- 21. Naugatuck Community College New Building project

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)									
12. N		13. ROLE IN THIS CONTRACT			14. YEARS EXPE a. TOTAL	RIENCE			
Ry	an Bergeron, E.I.T.	Bridge	Engineer		7	3			
	15. FIRM NAME AND LOCATION (<i>City and State</i>) Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C., Inc., Glastonbury, CT 06033								
	16. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)								
B.S	B.S. Civil Engineering EIT.0011543, Connecticut (Exp: 1/12/2026)								
	iversity of Connecticut, Storrs, CT								
	THER PROFESSIONAL QUALIFICATIONS (Publications, Or IA 10-Hour Safety for Construction, 7		auge Certificati	ion. ACI Conci	rete Field-T	esting Technician-Grade 1.			
	ITCP HMA Paving Inspector, NETTCP								
Cor	npliance of Stormwater								
		19. RELEVAN	NT PROJECTS						
	(1) TITLE AND LOCATION (City and State)			(2) YEAR COMPLET	ED				
	(1) TITLE AND LOCATION (City and State) West Hartford North Main Street	Bridge Design; West Ha	rtford, CT	PROFESSIONAL SEF	RVICES	CONSTRUCTION (if applicable)			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AN				f project perform	ed with current firm			
a.	Staff Engineer / Inspector - Bridge de rehabilitation includes inspection de rehabilitation de rehabili	esign services to fully reha of the uncovering the arc	ches to find ar	dge. The work eas that nee	provided c drepairs a	on the triple arch structures nd design of the concrete			
	parapet for site conditions. Provide	d Dailey inspection of wo	rk including on	site Concrete	e anḋ HMA	testing.			
	(1) TITLE AND LOCATION (City and State)			(2) YEAR COMPLET	ED				
	ConnDOT – (SPN 0102-0348) Cor Inspection Services for Bridge #0			PROFESSIONAL SEF	RVICES	CONSTRUCTION (if applicable)			
	over Norwalk River and Hendricks		bale bridge			2022			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AN			Check i	f project perform	ned with current firm			
	Staff Inspector - The project goal is to rehabilitate the bridge to provide a safe structure for the traveling public. The								
b.	rehabilitation includes repair and painting of the deteriorated and deficient structural steel, replacement of the navigation lighting, repair of box beam approach guide rail, replacement of deck expansion joints, repair of the deck and substructure								
	concrete, stabilization of the west a and median barrier, maintenance of	abutment embankment a of the existing sidewalk d	nd installation	of a sedimen	tation pone x modified	d, upgrades to the parapet			
	cleaning of the bridge deck scuppe	ers, and replacement of the	oridge drainage	e. Tectonic pr	ovided cor	nstruction engineering and			
	inspection, construction management the contractor. The total cost is an e	ent, contract administrati estimated \$27.5 Million.	on, technical ir	ispection, and	d processin	g all payment estimates to			
		·			ED				
	(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLET PROFESSIONAL SEF		CONSTRUCTION (if applicable)			
	Upper Collinsville Dam, Canton, C	Jonnecticut.				2022			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AN		rolated to th			ned with current firm			
c.	Staff Engineer / Inspector - Provid historic powerhouse building, new	concrete slab bridge, nev	w concrete fish	i ladder, mod	ification of	the intake race dam, new			
	retaining walls and other elements ensure the quality meets FERC rec	s necessary. Work also in	volved construction	uction oversignation	ght of the	contractor's operations to			
	components of the job. This testing	also involved inspecting t	he placement o	of the rebar ar	nd concrete	forms before the concrete			
	placement.								
	(1) TITLE AND LOCATION (City and State)			(2) YEAR COMPLET	ED				
	ConnDOT – (SPN 0042-0317) Cor Inspection Services for the Resur			PROFESSIONAL SEF	RVICES	CONSTRUCTION (if applicable)			
	Improvements of Route 2; East Ha		, y			Ongoing			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AN			Check i	f project perform	ned with current firm			
	Inspector - The project goal is to re	habilitate the bridge to p	rovide a safe s t structural ste	structure for the traveling public. The rehabilitation eel, replacement of the navigation lighting, repair of					
d.	box beam approach guide rail, repla	cement of deck expansion	n joints, repair	of the deck ar	nd substruc	ture concrete, stabilization			
	of the west abutment embankmen maintenance of the existing sidewa	it and installation of a se lk. diamond grinding of th	dimentation po latex modifie	bond, upgrades to the parapet and median barrier, ied concrete wearing surface, cleaning of the bridge					
	deck scuppers, and replacement of	bridge drainage. Tectoni	c provided con	struction eng	ineering an	nd inspection, construction			
	management, contract administrati cost is an estimated \$27.5 Million.	on, technical inspection,	and processing	g all payment	estimates t	to the contractor. The total			
				(2) YEAR COMPLET	FD				
e.	(1) TITLE AND LOCATION (City and State) Culvert Repairs for Braeburn Road	d over West Branch Trou	ut Brook -	PROFESSIONAL SEF		CONSTRUCTION (if applicable)			
	Bridge No. 06076; West Hartford			2016		2017			

	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Staff Engineer - performed an inspection of the culvert to identify the critica with the rights-of-way and wetlands delineated. A hydrologic and hydrau analysis for the existing and proposed repair conditions. Additional services permits, traffic and staging plans, design specifications and special prov construciton he performed site visits to inspect the quality of work.	lic analysis was perform included completing and	rformed of the project site, ed which included a scour submitting environmental		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED			
	Hudson Valley Shakespeare Festival/Snake Hill Road Access Bridge,	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
	Garrison, NY	Ongoing			
f.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project perform			
	This project involves the design of a new access bridge to the Hudson Valley Shakespeare Festival site in Garrison, NY. Tectonic is providing consultant engineering services for the client for the design of the 130ft long bridge. The bridge will be designed to support traffic loadings per AASHTO LRFD Bridge Design Specifications. Based on preliminary concept, prefabricated bridge superstructure will be used. Mr. Bergeron will be assisting in the structural design aspect for this project.				
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED			
	170 Byram Lake Road Culvert Replacement, New Castle, NY	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
	To Byrain Lake Road Culvert Replacement, New Castle, NT	Ongoing			
g.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Check if project performed with current firm This project involve the replacement of an existing culvert at 170 Byram Lake Road in New Castle, NY. Tectonic is providing full consultant engineering services to the Town for the replacement, including: topographic survey, , structural design, hydraulic analysis, permit preparation, geotechnical investigation, traffic control, and water handling. Mr. Bergeron is assisting in the structural design aspect for this project.				
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED			
	Route 120 Quaker Road Bridge Superstructure Replacement and	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
	Rehabilitation , New Castle, NY	Ongoing			
h.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm This project involves the superstructure replacement and rehabilitation of the 240ft long bridge along Route 120 Quaker Rd in New Castle, NY. Tectonic provided bridge inspection services and is providing consultant engineering services to the Town for the superstructure replacement and rehabilitation, including: topographic survey, structural design, wetland delineation, environmental studies, hydraulic analysis, permit preparation, geotechnical investigation, and slope stabilization. Mr. Bergeron is assisting in the structural design aspect for this project.				
		(2) YEAR COMPLETED			
	(1) TITLE AND LOCATION (City and State)	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
	Replacement of South Maple Street over Scantic River, Enfield, CT,	2011	2012		
i.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This project involved the replacement of the South Maple Street Bridg improvements in the Town of Enfield. The existing bridge was removed Construction cost was \$2.2 million dollars. Mr. Bergeron assisted in the stru- periodic construction inspection.	and replaced with a ne	er and roadway approach ew fully precast structure.		

	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)							
12 N	12. NAME 13. POLE IN THIS CONTRACT 14. YEARS EXPERIENCE							
	vin Fuller	Senior CAD Designe	a. TOTAI	_ 28	b. WITH CURRENT FIRM 22			
15. FIRM NAME AND LOCATION (City and State)								
Тес	Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C., Inc., Glastonbury, CT 06033							
	16. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) 17. CURRENT PROFESSIONAL REGISTRATION (<i>STATE AND DISCIPLINE</i>)							
A.S.	A.S. Mechanical Engineering, 1989, Hartford State Technical College							
	THER PROFESSIONAL QUALIFICATIONS (Publications, Or	ganizations, Training, Awards, etc.) 33) Vinal Regional Vocational Technical Scho	ol Middletown CT					
	tificate of Apprenticeship Machine Drafti							
	–Concrete Field-Testing Technician							
	TCP – Hot Mix Asphalt							
QCI	S - Stormwater Compliance Inspector							
		19. RELEVANT PROJECTS						
	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	CON	STRUCTION (if applicable)			
	Tuckahoe, NY	Bridge over Bronx River, Yonkers &	PROFESSIONAL SERVICES	CON				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AN		Check if project p	performed wi	th current firm			
	a ruckaboe R	ion of the bridge (BIN 3364940), at the oad over the Bronx River is a single spar	town line of Tuckan	oe and y	n 1916 The bridge bas			
a.		concrete slab on fill and wide concr						
u.	approximately 44 feet long by 66 fe	et wide. The work involves removal ar	nd replacement of p	avement	t, curbs and sidewalks;			
	excavation and removal of materia	Is to expose the top of the arch; clear	ning, repairing and	waterpro	oofing the rigid frame;			
	major repointing of the spandrels	and wingwalls; replacement of the store required to ensure long-term dura	one parapets with r	einforce	d concrete with stone			
	estimated at \$2,000,000. Tectonic	is preparing detailed design plans spec	cifications and cost of	estimate	s for the rehabilitation			
	work. Also included in the scope of	of services is the preparation of all sur	rveying, condition in	nspection	and load rating, and			
	permitting. Mr. Fuller is providing a	II CAD drawings for this project.	·					
	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED PROFESSIONAL SERVICES	CON	STRUCTION (if applicable)			
	170 Byram Lake Road Culvert Rep	2022	CON					
b.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Check if project performed with current firm							
	This project involves the replacement of an existing culvert at 170 Byram Lake Road in New Castle, NY. Tectonic is providing full consultant engineering services to the Town for the replacement, including: topographic survey, , structural design,							
		-						
		on, geotechnical investigatio, traffic cor	ntrol, and water han	dling. M	r. Fuller is preparing all			
	CAD drawings for this project.							
	(1) TITLE AND LOCATION (City and State)	uperetructure Perleasement and	(2) YEAR COMPLETED PROFESSIONAL SERVICES	CON	STRUCTION (if applicable)			
	Route 120 Quaker Road Bridge Su Rehabilitation, New Castle, NY	iperstructure Replacement and	2022-ongoing	con	sincenon (j upplicable)			
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AN	the 240 ft long bric						
	This project involves the superstructure replacement and rehabilitation of the 240 ft long bridge along Route 120 Quaker Rd in New Castle, NY. Tectonic provided bridge inspection services and is providing consultant engineering services to the Town							
	for the superstructure replacement and rehabilitation, including: topographic survey, structural design, wetland delineation,							
	environmental studies, hydraulic a	nalysis, permit preparation, geotechnic	al investigation, and	d slope s	tabilization. Mr. Fuller			
	Inas prepared temporary repair deta	ills and all CAD drawings for this project	(2) YEAR COMPLETED					
	(1) TITLE AND LOCATION (City and State)		PROFESSIONAL SERVICES	CON	STRUCTION (if applicable)			
	North Main Street over West Bran	ch of Trout Brook, West Hartford, CT	2017	20				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AN		Check if project p	porformod wi	th current firm			
d.		plans, repair details, MPT plans, and a						
	bridge. This triple arch structure	s rehabilitation included uncovering t	he arches to provi	de repai	rs and waterproofing,			
	removal of the end sections to rebu	ild the headwalls and parapets, partial a	and full depth patch	ing on th	e insides of the arches			
	and installation of scour counterme	asures. Safety upgrades, utility coordin	ation and property	acquisitio	on were also provided.			
			(2) YEAR COMPLETED					
	(1) TITLE AND LOCATION (City and State) Braeburn Road over Trout Brook,	Culvert Rehabilitation	PROFESSIONAL SERVICES	CON	STRUCTION (if applicable)			
	West Hartford CT	ouvert Kenabilitation,	2018		-going			
				1	0 0			
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AN		Check if project p					
	Mr. Fuller prepared the drawings for	or the full rehabilitation of twin 6'-3 x 9'	-6" CM Pipes. This	oroject ir	cluded hydrologic and			
	hydraulic analysis of existing and	proposed conditions to assess the im	pact to the flood	elevatior	due to the changes.			
	Prepared traffic control plan and de	veloped specifications to the specialized	d work.					
f.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					

	Project L128-0002 Hop Meadow Street Connectivity, Simsbury.	PROFESSIONAL SERVICES	CONSTRUCTION (<i>if applicable</i>) 2024			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		prmed with current firm			
	Project Manager: LOTCIP Project L128-0002. This project involves furnishir construction of a sidewalk corridor along the west side of Hopmeadow Str and continuing north to the CTDOT Storage Facility/Park n' Ride. The desi Hopmeadow Street that is approximately 4,400 LF with a varying snow she Construction Coordinator during construction phase.	eet beginning at the so gn will include a 5ft wi	uthern end at Hoskins Road de concrete sidewalk along			
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED				
	Project L093-0001 Maple Avenue and Robbins Avenue Complete Streets Improvements, Newington, Connecticut.	PROFESSIONAL SERVICES	CONSTRUCTION (<i>if applicable</i>) 2023			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project perfo	prmed with current firm			
g.	Project Manager: LOTCIP Project L093-0001. This project involves resurface Avenue and Robbins Avenue beginning at New Britain Avenue (CT Route Work includes, but is not limited to, milling of the existing pavement, cr roadway widening, installing new catch basins and pipes, replacing catc improvements, traffic signal improvements, pavement markings, repla necessary appurtenances such as maintenance and protection of traff phase.	e 174) and ending at N ack sealing, repaving v h basin tops, sidewall acing and resetting sig	Main Street (CT Route 176). with hot mix asphalt, minor and accessible curb ramp ms, landscaping and other			
	(1) TITLE AND LOCATION (<i>City and State</i>) Project L164-0007: International Drive Improvements- Construction Inspection Services, Windsor CT.	(2) YEAR COMPLETED PROFESSIONAL SERVICES	CONSTRUCTION (<i>if applicable</i>) 2023			
h.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project perfo	prmed with current firm			
	Project Manager: LOTCIP Project. This project involves resurfacing of approximately 4,800 linear feet of roadway work along the northbound lanes of the roadway. Work includes, but is not limited to, full depth reconstruction, milling and paving,					
	installing new catch basin tops and curbing. Construction Coordinator duri	ng construction phase.				

	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)						
12. N	eodore Haines, P.L.S.	13. ROLE IN THIS CONTRACT	vey Manage	r	14. YEARS EXPER	b. WITH CURRENT FIRM	
Ineodore Hames, P.L.S. Lead Survey Manager 22 14 15. FIRM NAME AND LOCATION (<i>City and State</i>)					14		
	tonic Engineering Consultants, G	eologists & Land Surve	eyors, D.P.C., Ir	nc., Glastont	oury, CT 06	033	
	DUCATION (DEGREE AND SPECIALIZATION) Surveying/Engineering		17. CURRENT PROFESS Professional Lan		N (STATE AND DI	SCIPLINE)	
	e University of New York Alfred State Co	llege	New York # 5044				
	S. Forest Technology, State University o	-	New Jersey # 24				
	ronmental Science and Forestry		Connecticut # 70	0300			
	VYork State Ranger School at Wanaken THER PROFESSIONAL QUALIFICATIONS (Publications, Or	agnizations Training Awards ats					
	V York State Association of Professional L		ludson Land Surve	eyors Associatio	on		
		19. RELEVA	NT PROJECTS				
	(1) TITLE AND LOCATION (City and State)			(2) YEAR COMPLET PROFESSIONAL SER		CONSTRUCTION (if applicable)	
	Town of New Castle, Millwood Sid	dewalk Improvement; N	Aillwood, NY	2021			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AN	D SPECIFIC ROLE		Check i	f project perform	ed with current firm	
	As Survey Manager, responsible	for project oversight	and QA/QC.	Tectonic per	formed a	boundary/topographic of	
а.	approximately 3 miles of the Croto	n Turnpike. Topography	was performed	l using a com	bination of	two- and three-man field	
	crew to increase efficiency. Topog	graphy was shot at a n	naximum spaciı	ng of 50 feet	t along the	centerline and edges of	
	pavement and at all site features						
	servicing the area. Inverts of drain			-			
	Tectonic produced several Acquisiti	on Maps to create perm	anent easemen	(2) YEAR COMPLET		DOT Standards.	
	(1) TITLE AND LOCATION (City and State)			PROFESSIONAL SER		CONSTRUCTION (if applicable)	
	Town of Hempstead, Northern Ha	2020					
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE						
L	As Survey Manager, responsible for project oversight and QA/QC. Tectonic performed topographic mapping for 17,600 lineal						
b.	feet of streets to be used for road and sidewalk improvements including drainage, grading, and ADA ramps. The survey was						
	performed using a combination of survey techniques including traditional total station and mobile LiDAR. Topography was mapped for the full width of the road including up to 4 feet behind the existing sidewalk. Spot elevations were shown at 25 ft.						
	spacing perpendicular to a baseline road, top and bottom of curb, front			-	evations we	ere snown at centerline or	
	(1) TITLE AND LOCATION (City and State)		ia 4 n. benna n	(2) YEAR COMPLET	ED		
	New York City Department of Des	ign and Construction,	Laurelton	PROFESSIONAL SER	RVICES	CONSTRUCTION (if applicable)	
	Avenue Survey; Queens, NY	Avenue Survey; Queens, NY					
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE						
c.	As Survey Manager, responsible for project oversight and QA/QC. Tectonic performed a topographic survey of approximately 14,000 linear feet of streets located in Queens as part of improvements to the street infrastructure. The survey was a						
	NYCDOT type survey which includes a detailed topography of the entire route including location of all utilities. This project						
	involved the establishment, location and mapping of all right-of-way lines, property lines, surface features and subsurface						
	features including utilities with spot elevations and capacities. The mapping requirements required the preparation of						
	profiles of the street centerline, sto	rm and sewer lines, top	and bottom of o	urb and back	of walk.		
	(1) TITLE AND LOCATION (City and State)			(2) YEAR COMPLET PROFESSIONAL SER		CONSTRUCTION (if applicable)	
	Surveying Services, Cemetery of	the Highlands, Highlan	d Mills, NY	2015	WICLS		
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AN	D SPECIFIC ROLE		Check i	f project perform	ed with current firm	
u.			r the expansion				
	Tectonic provided construction layout surveying services for the expansion of a cemetery located in Highland Mills, NY. Scope of work included construction layout of drainage structures, new road system and cemetery plots. At the completion of						
	construction, Tectonic will prepare	an as-built of the new im	nprovements				
	(1) TITLE AND LOCATION (City and State)			(2) YEAR COMPLET			
	SPEC Consulting, LLC, Midland To Midland, PA	erminal Surveying Serv	rices,	PROFESSIONAL SER	RVICES	CONSTRUCTION (if applicable)	
				2015			
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AN					ed with current firm	
	Tectonic performed a Boundary/To						
	using the property for a new oil t		bertormed a las	ser scan of th	ie existing	tank area, picking up the	
	location of storage tanks, piping, ar	iu other site reatures.					

F. EXAMPLE PRO Q (Present as many proj	20. EXAMPLE PROJECT KEY NUMBER				
21. TITLE AND LOCATION (City and State) CRCOG - CTDOT LOTCIP Engineering Construction: On-Call List 2		PROF	22. YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (<i>if applicable</i>) On-going		STRUCTION (if applicable)
	23. PROJECT OWNER'S INFORM	ATION	i .		
a. PROJECT OWNER b. POINT OF CONTACT NAME CRCOG see below			c. POINT OF CONTACT TELEPHO	NE NUI	MBER

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Tectonic Engineering and Surveying Consultants P.C. (Tectonic) is providing construction engineering and inspection, under the general supervision of the Municipality assigned Project Engineer in conformance with the current version of the "LOTCIP Manual" and the "Information Pamphlet for Contracting Engineers Performing Construction Inspection," dated July 1996 for the following projects.

Newington - Maple Hill Avenue and Robbins Avenue Complete Streets Project 2023

This project involves resurfacing of approximately 8,400 linear feet of Maple Hill Avenue and Robbins Avenue beginning at New Britain Avenue (CT Route 174) and ending at Main Street (CT Route 176). Work includes, but is not limited to, milling of the existing pavement, crack sealing, repaving with hot mix asphalt, minor roadway widening, installing new catch basins and pipes, replacing catch basin tops, sidewalk and accessible curb ramp improvements, traffic signal improvements, pavement markings, replacing and resetting signs, landscaping and other necessary appurtenances such as maintenance and protection of traffic. <u>Reference</u>: Chris Zibbideo, Town Engineer 860.665.8572

Windsor - International Drive Roadway Improvements, Phase 1 2023

This project involves resurfacing of approximately 4,800 linear feet of roadway work along the northbound lanes of the roadway. Work includes, but is not limited to, full depth reconstruction, milling and paving, installing new catch basin tops and curbing. <u>Reference</u>: Jenna Zinky, Assistant Town Engineer 860.285.1874

Windsor – Baker Hollow Road Reconstruction Project 2023-ongoing

This project involves the construction of Baker Hollow Road from Old Poquonock Road to Marshall Phelps Road. The project will include a 30 foot wide paved road with an adequate drainage system, curbing, water and sewer systems, and sidewalks throughout.

Reference: Jenna Zinky, Assistant Town Engineer 860.285.1874

Simsbury – Hopmeadow Street Connectivity Project 2023- on going

This project involves furnishing all labor, materials, equipment necessary for the construction of a sidewalk corridor along the west side of Hopmeadow Street beginning at the southern end at Hoskins Road and continuing north to the CTDOT Storage Facility/Park n' Ride. The design will include a 5ft wide concrete sidewalk along Hopmeadow Street that is approximately 4,400 LF with a varying snow shelf for a majority of the project area.

Reference: Adam Kessler, Town Engineer 860.876.9909

Simsbury – Bloomfield-Tariffville Multi-Use Trail Connector Project 2023

The project is approximately 0.87 miles of paved 10 foot wide recreational trail, intersection improvements and related work. The project begins approximately 600 linear feet west of State Route 189 and connects to an existing multi-use trail in Bloomfield. The trail then continues north along State Route 189 for approximately 0.75 miles to the intersection with Main Street in Tariffville. Included in the project are drainage improvements, a landscaping buffer along the trail route, intersection improvements and traffic signal modifications at the intersection of State Route 189/ 315 (Elm Street), sidewalk improvements, and the installation of bike racks and construction of retaining wall at the northern terminus of the multi-use trail. website development, and daily communication was required to maintain close coordination with the affected property owners and users due to the tight corridor and extensive Rights of Way "Rights" to perform work on private property. During construction, access to all properties, including the over 100 businesses within the project limits, and pedestrian access was also carefully coordinated. Tectonic received "exceptional" ratings on this project. <u>Reference</u>: Adam Kessler, Town Engineer 860.876.9909

	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT							
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE					
	Tectonic Engineering	Glastonbury, CT	Prime Consultant					
а.	Consultants, Geologists & Land							
	Surveyors D.P.C., Inc.							

F. EXAMPLE PR ((Present as many pro	20. EXAMPLE PROJECT KEY NUMBER				
21. TITLE AND LOCATION (City and State) North Main Street Over West Branch of Trout Brook, West Hartford, CT			22. YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (if applicable) 2017 2022		
	23. PROJECT OWNER'S INFO	RMATION	N		
a. PROJECT OWNER b. POINT OF CONTACT NAME c. POINT OF CONTACT TELEPHONE NUM Town of West Hartford Mr. Duane Martin, Town Engineer 860.561.7539			NE NUMBER		

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Subsequent to the inspection of this 1901 three-barrel arch structure, by Tectonic, it was determined that this bridge is in poor condition and requires immediate repairs due to the extent of concrete deterioration, including severe spalling.

The rehabilitation is necessary in order to slow down the deterioration, improve the bridge load carrying capacity and extend its service life, for the safety of the pedestrians and the traveling public.

The proposed work entails the removal of the fill material from the existing arch structure to expose the top of the slab for concrete patching repairs and the placement of a membrane waterproofing. Concrete repairs will also be made to the underside of the arch and the downstream face of the structure. Both parapets will be removed and replaced, including portion of the upstream spandrel wall.

Also, a channel revetment at the bridge will be placed as a scour countermeasure. This countermeasure is intended to stabilize the channel and protect the crossing from further development of bridge scour that can lead to the closing of the bridge.

Approach roadway excavation will be required to support the excavation at the bridge. Guardrail will be erected at the approaches. The existing utilities will be temporarily supported and the watermain replaced.

Also, Tectonic is responsible for the Stream Channel Encroachment and the local Inland, Wetland and Watercourse permits and the development of a Hydraulic and Scour reports. Tectonic will provide construction support services. The construction cost is \$1.200,000.00.

Performed the construction inspection for the project.

Project Relevance							
✓	DOT Policies and Procedures						
<	Hydrology & Hydraulics Engineering						
✓	Geotechnical Engineering						
<	Bridge Rehab/Replacement						
✓	Construction Inspection Services						







	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT								
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE						
	Tectonic Engineering	Rocky Hill, CT	Prime Consultant						
а.	Consultants, Geologists & Land								
	Surveyors D.P.C., Inc.								

F. EXAMPLE PR(Q (Present as many proj	20. EXAMPLE PROJECT KEY NUMBER				
Renabilitation of Crosby Street Bridge over Padanaram Brook.				STRUCTION (if applicable)	
	23. PROJECT OWNER'S INFORM	IATION	I		
a. PROJECT OWNER b. POINT OF CONTACT NAME City of Danbury Mr. Farid Khouri, PE			c. POINT OF CONTACT TELEPHO	NE NUI	MBER
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)					

As part of Tectonic's On-Call Bridge Engineering Services for Danbury, Tectonic provided full rehabilitation design for the Crosby Street Bridge over Padanaram Brook near the center of the city. *The existing two span stone masonry arch bridge was built in 1899 and is listed by the Connecticut Department of Transportation as an historic bridge.* The existing bridge has a roadway width of 31.8' which is adequate for two lanes of one-way traffic.

Project Relevance						
\checkmark	DOT Policies and Procedures					
\checkmark	Hydrology & Hydraulics Engineering					
\checkmark	Geotechnical Engineering					
\checkmark	Bridge Rehab/Replacement					
\checkmark	Construction Inspection Services					

The existing bridge was rehabilitated by removing the existing roadway surface and fill to expose the top of the stone arch, repairing cracks with mortar or

epoxy injection and placing membrane waterproofing along the top of the arch. Additional repairs included re-pointing of the stone masonry spandrel walls, installation of new bridge rail with an historic look, rebuilding of the downstream wingwalls, dredging of the silt in the river channel and providing scour counter measures.

Environmental services included collecting sediment samples from the proposed dredging area, analyzing the samples for waste disposal characteristics, and comparing the results to Connecticut soil standards. Services include preparing project specifications for the appropriate handling and disposal of the contaminated dredged sediments in accordance with DEP Remediation Standard Regulations (RSRs) and NPDES requirements.

Tectonic prepared permits for Local Wetlands, Flood Management Certification and ACOE Category 2 permits.

Surveying services included establishing the right-of-way and property lines within the area of the project, and providing a detailed topographic survey of the area immediately surrounding the bridge, both approach roads on either side of the bridge for a distance of 300-ft, and the brook for a distance of 500-ft upstream and 300-ft downstream from the bridge. Cross sections of the stream were field measured at 40' intervals and extended to the 100-year flood line for a stream hydrology study. All survey data was tied to Connecticut State Plane coordinate system, and mapping was produced in digital format conforming to the Connecticut Department of Transportation standards. Tectonic performed the construction inspection.



	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT							
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE					
	Tectonic Engineering	Rocky Hill, CT	Prime Consultant					
a.	Consultants, Geologists & Land Surveyors D.P.C., Inc.							

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project)						20. EXAMPLE PROJECT KEY NUMBER
21. TITLE AND LOCATION (City and State) ConnDOT (SPN 0042-0317) – Resurfacing, Bridge and Safety Improvements on Route 2, East Hartford, CT				ERVICES		MPLETED NSTRUCTION (if applicable) Ngoing
	23. PROJECT OWNER'S INFO	RMATION				
a. PROJECT OWNER b. POINT OF CONTACT NAME c. POINT OF CONTACT TELEPHON ConnDOT Mr. Mark St. Germain, PE 860 258-4646				JMBER		
24. BRIEF DESCRIPTION OF PROJECT AND REL	EVANCE TO THIS CONTRACT (Include scope, size, and cost)					
			Projec	t Relevance		
	rfacing, bridge, and safety improvem		-	\checkmark	DOT Polic	ies and Procedures

the Route 2 corridor from the Exit 3 (Pitkin Street) to Exit 5C (Maple Street), (approx. 2.8 miles). The project also includes Incident Management Systems (IMS) upgrades and extension of coverage on Route 2 and Route 3. This Project will include the following improvements within the project area: roadway rehabilitation; mill and overlay; concrete pavement base

	Project Relevance						
v	DOT Policies and Procedures						
\checkmark	Hydrology & Hydraulics Engineering						
\checkmark	Geotechnical Engineering						
\checkmark	Bridge Rehab/Replacement						
\checkmark	Construction Inspection Services						

repair; ramps; median reconstruction and improvements including the removal of the existing sub-standard metal beam rail and installation of concrete barrier; wider shoulders; acceleration/deceleration lane extensions; drainage modifications including the reconstruction of two outfalls into the Connecticut river; all new signage including overhead structures; landscaping and new highway lighting will be installed throughout the length of the project.



crosswalks, and ADA ramps.

Improvements to nine (9) bridges will also be performed. This includes two full (2) bridge deck replacements, bridge deck repairs, and concrete parapet and guide rail upgrades.

Exit 5B ramps, Cambridge Drive (westbound on-ramp), and Sutton Avenue (eastbound off-ramp) will be permanently closed to improve traffic safety, access, and mobility; due to closures, traffic will be diverted to Exits 5A and 5C. Increased volumes at ramps 5A/5C are addressed by intersection improvements including traffic signal replacements, ramp realignments, shoulder and lane width adjustments, dedicated turn lanes, and ADA improvements. Streetscape improvements at the Main/Broad/Maple intersection include new concrete sidewalks upgraded pedestrian signals,

Tectonic is also providing community outreach services which includes public presentations, dedicated website communication and door-to-door contact with stakeholders to address inquiries and mitigate community concerns.

	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT							
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE					
	Tectonic Engineering	Glastonbury, CT	Prime Consultant					
a.	Consultants, Geologists & Land Surveyors D.P.C., Inc.							

F. (Preser	20. EXAMPLE PROJECT KEY NUMBER				
Complete one Section F for each project) 21. TITLE AND LOCATION (City and State) ConnDOT (SPN 063-0633) – Route 44 (Albany Avenue) Reconstruction; Hartford, CT		PROF	22. YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (<i>if applicable</i>) 2020		STRUCTION (if applicable)
	23. PROJECT OWNER'S INF	ORMATION	I		
a. PROJECT OWNER	b. POINT OF CONTACT NAME Mr. Mark St. Germain, PF	c. POINT OF CONTACT TELEPHONE NUMBER 860 258-4646			MBER

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Tectonic was retained by the Connecticut Department of Transportation to perform construction inspection services for the Route 44 (Albany Avenue) Safety Improvements Project. Improvements to Albany Avenue were constructed to improve safety for vehicles, pedestrians and bicyclists. Extensive streetscape addressed accessibility, connectivity, vehicle access, and operations. Minor drainage modifications were also included. The project included extensive street trees and other plantings.

One method used to improve pedestrian safety was the construction of bulb outs at many of the intersections. The bulb outs provide pedestrians a shorter crossing distance and a slightly elevated position to stand prior to crossing the roadway. This treatment allows a better line of sight around parked vehicles as well as making the pedestrian more visible to the motorist. Some of the design elements to improve vehicle safety were realigning several intersections, eliminating one of the eastbound travel lanes and replacing it with an alternating left turn lane, and modifying several of the one-way traffic flow patterns. The modifications to some of the one-way traffic flow circulations now provide signalized access to Albany Avenue when entering from many of the side streets while providing one-way circulation away from Albany Avenue at non-signalized intersections.

Traffic signal improvements included modified signal timing, the replacement of seven (7) existing signals, the installation of four (4) new signals, and the removal of one (1) signal. Additionally, the improvements include the replacement of seven (7) existing traffic control signal cabinets and controllers in order to maintain the communication and integrity of the ConnDOT-owned closed loop system along this section of Route 44. This project also included milling and overlaying all of the project roadways within the limits of work, including approximately 6,000 feet of Albany Avenue, installation of new granite curbing, concrete sidewalks, paver bandings, crosswalks at all intersections, installation of ornamental lighting, bus shelters and other site amenities, street trees, and modifications to the existing drainage system in support of the installed bulb outs. The project also created

Project Relevance					
\checkmark	DOT Policies and Procedures				
\checkmark	Hydrology & Hydraulics Engineering				
	Geotechnical Engineering				
	Bridge Rehab/Replacement				
\checkmark	Construction Inspection Services				



bicycle access on the mainline and Homestead Avenue, which is a major arterial road. A significant community outreach plan, website development, and daily communication was required to maintain close coordination with the affected property owners and users due to the tight corridor and extensive Rights of Way "Rights" to perform work on private property. During construction, access to all properties, including the over 100 businesses within the project limits, and pedestrian access was also carefully coordinated. Tectonic received "exceptional" ratings on this project.

	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT					
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE			
a.	Tectonic Engineering Consultants, Geologists & Land Surveyors D.P.C., Inc.	Glastonbury, CT	Prime Consultant			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project)					20. EXAMPLE PROJECT KEY NUMBER
21. TITLE AND LOCATION (City and State) ConnDOT (SPN 0032-0130) – Route 31 Reconstruction; Coventry, CT		22. YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (if applicable) 2018			STRUCTION (if applicable)
	23. PROJECT OWNER'S INFORM	ATION	I		
a. PROJECT OWNER b. POINT OF CONTACT NAME ConnDOT Mr. Mark St. Germain, PE			c. POINT OF CONTACT TELEPHO 860 258-4646	NE NU	MBER
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)					

The Route 31 Roadway reconstruction project in Coventry involved the reconstruction of a section of Route 31 from just north of Stone House Road and extends 2,050 feet south past School Street, which encompasses the entire "downtown" of Coventry.

This project included roadway reconstruction, culvert replacement, rock cutting, storm drainage and sewer reconstruction, as well as architectural finish work including granite curb and sidewalk. The roadway was widened and greatly improved with smoother pavement, better drainage, wider shoulders, improved

Project Relevance					
\checkmark	DOT Policies and Procedures				
\checkmark	Hydrology & Hydraulics Engineering				
	Geotechnical Engineering				
	Bridge Rehab/Replacement				
\checkmark	Construction Inspection Services				

sightlines and roadway protection. The project also included the creation and/or rehabilitation of all the sidewalks within the project area for better pedestrian access.

Tectonic provided construction engineering and inspection, contract administration, technical inspection of construction, and processed all payment estimates to the contractor. Tectonic also provided and maintained a dedicated project website with real-time information and weekly email updates to nearby residents and stakeholders. Tectonic received "exceptional" ratings on this project.

Project Cost: \$6.3 Million



	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT					
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE			
a.	Tectonic Engineering Consultants, Geologists & Land Surveyors D.P.C., Inc.	Glastonbury, CT	Prime Consultant			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project)					20. EXAMPLE PROJECT KEY NUMBER
21. TITLE AND LOCATION (City and State) Upper Collinsville Dam, Canton, CT		Eng	Engineering and Co Construction Inspection Co		IPLETED STRUCTION <i>(if applicable</i>) Increte Constructors Inpany and Hemlock Instruction
	23. PROJECT OWNER'S INFOR	MATION	I		
a. PROJECT OWNER b. POINT OF CONTACT NAME c. POINT OF CONTACT TELEPHONE NUL WWS and Canton Hydro LLC Patrick AigIstorfer, PM c. Point of contact telephone NUL					

The Upper Collinsville Dam is located along the Farmington River in the Town of Canton, CT. The dam was constructed in 1867 by the Collins Company to power their facilities. The re-development of the dam was started in 2015 for the town with Canton Hydro LLC as the project's developer and WWS Wasserkraft as the turn-key solution provider, the project is currently in construction phase. Tectonic was hired as the design build engineering & inspection consultant in 2018. Once completed, it will be a 1 megawatt (MW) hydroelectric facility and is projected to generate an average 4.3 million kWh of renewable energy annually into the grid.

Tectonic provided the designs of the structural components throughout the dam including five sections of fish ladder walls, new intake gate & trash rack concrete structures including dam modifications & additions, dam stability analysis, new rock anchors at the dam, concrete dam modification at the overtop gate, steel gate support frame at the spill way, power house modification structural design, turbine draft tube concrete design, concrete transformer pad & retaining wall structure, and eel passage structure at the upstream. All the design was performed following the Federal Energy Regulatory Commission (FERC) Engineering Guidelines, AASHTO LRFD, ACI-318, ACI-350 (for under water concrete), ASIC Steel Manual, and FHWA-IF-99. The geometry of the dam modifications & additions is defined and provided by WWS, Tectonic provided changes to the geometry to ensure structural integrity of the structures when necessary.

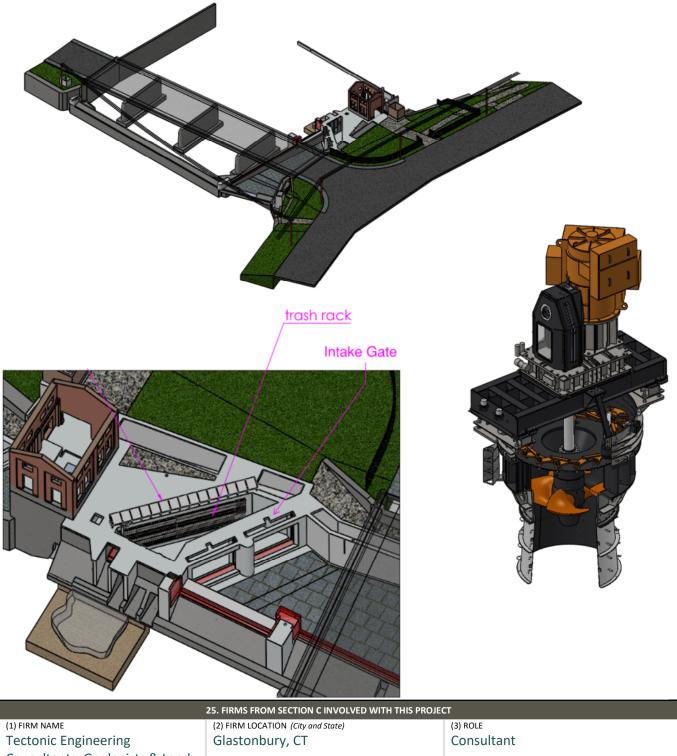
Tectonic prepared design submittals (calculations & drawings) to FERC as part of the project requirement from FERC. Tectonic coordinated with FERC along the entire design process including multiple meetings with FERC to make sure the designs & dam modifications follow FERC guidelines and obtained approvals from FERC for construction in time.

Tectonic provided construction inspection services for the project including day to day construction inspections, reinforcement inspection, concrete testing, rebar rock dowel pull tests, grouted rock anchor inspection, grouted rock anchor pull test and as-build drawings.

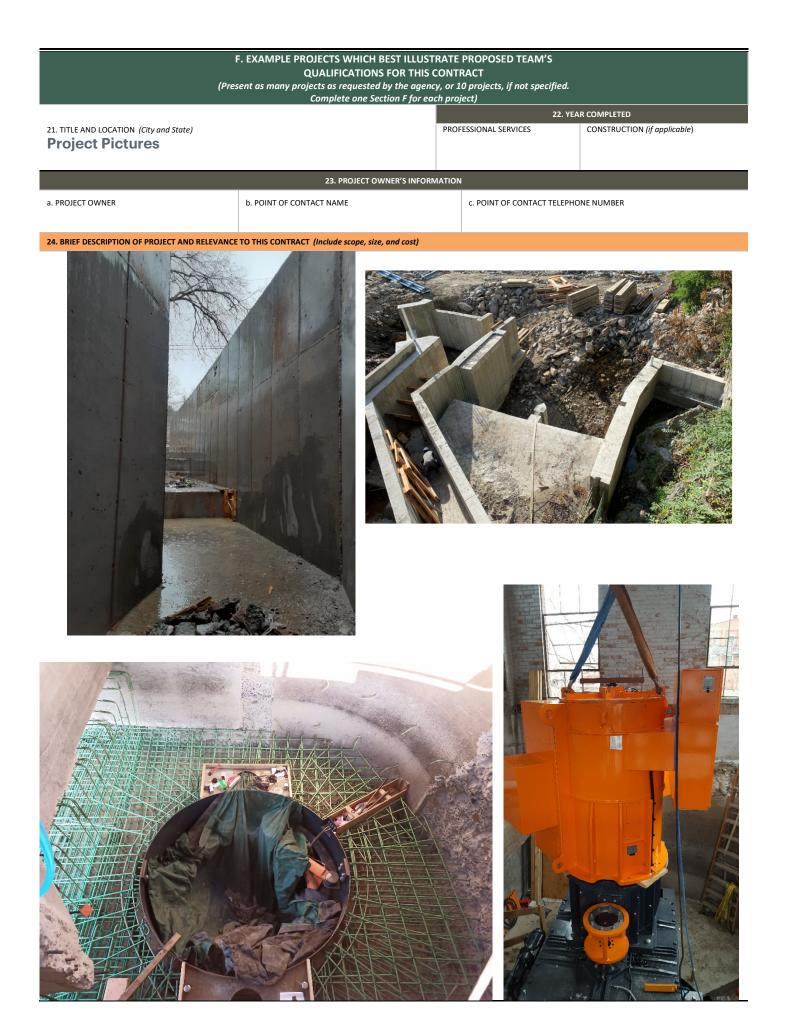
The major challenges Tectonic faced and resolved in this project are, but not limited to:

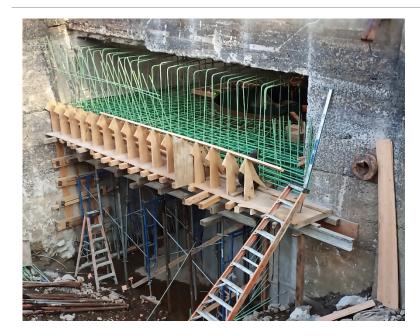
- Design of concrete structures with very irregular geometry.
- As a design build project, Tectonic finished different portions of the design in a timely manner and obtained approvals for construction to accommodate the on-going construction schedule.
- FERC guidelines and requirements provided reasonable & economical design while making sure design is in conformance with FERC guidelines and FERC officials' comments and obtained approvals from FERC.
- Coordination between all parties involved Coordination efforts made between FERC, the developer Canton Hydro LLC, the turn-key solution provider WWS, and the Contractor.
- Incorporate the unusual design forces & geometry of the special steel mechanical components designed by WWS, including the hydraulic piston-controlled crest gates at the existing dam, the turbine & generator at the powerhouse slab, and the draft tube under the turbine.
- Provided full engineering review of WWS calculations and engineering drawings for structural steel, hydraulic gates, and other civil works.

- Providing Certified Building Official Inspections for the power connections in coordination with Eversource and the Town Building Department.
- Incorporate field changes due to site geometry & contractor 's means & methods into the design.



a. Consultants, Geologists & Land Surveyors D.P.C., Inc.











	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT				
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE		
	Tectonic Engineering	Glastonbury, CT	Consultant		
a.	Consultants, Geologists & Land Surveyors D.P.C., Inc.				

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project)					20. EXAMPLE PROJECT KEY NUMBER
21. TITLE AND LOCATION (City and State) Replacement of the Bigelow Hollow Access Road Culvert over Bigelow Brook, Union, CT			22. yea essional services 11		STRUCTION (if applicable)
23. PROJECT OWNER'S INFORMATION					
a. PROJECT OWNER b. POINT OF CONTACT NAME C. POINT OF CONTACT TELEPHON			NE NUI	MBER	

860.966.9682

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Connecticut DEEP

The Connecticut Department of Energy & Environmental Protection selected Tectonic to provide on-call engineering services for bridge design. The first assignment is the replacement of the Bigelow Hollow Access Road Culvert that was damaged during heavy rain in October of 2005 and is in poor condition.

Ms. Deb Corcoran

We performed all of the design and engineering including the hydraulic analysis using HEC- HMS and HEC-RAS and structural engineering and construction contract documents. Also, Tectonic developed the required materials for the D.E.E.P. permit application.

The replacement will be a precast concrete box culvert with cast-in-place concrete wingwalls. Water handling plans and stormwater management issues were prepared for the project.

Performed periodic inspections during construction.

Project Relevance					
\checkmark	ConnDOT Policies and Procedures				
\checkmark	Hydrology & Hydraulics Engineering				
	Geotechnical Engineering				
\checkmark	Bridge Rehab/Replacement				
	Construction Inspection Services				





	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT					
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE			
a.	Tectonic Engineering &	Rocky Hill, CT	Prime Consultant			
-	Surveying Consultants PC.					

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project)					20. EXAMPLE PROJECT KEY NUMBER	
21. TITLE AND LOCATION (City and State)				22. YEAF	RCOMP	LETED
Replacement of South Maple St	. Bridge, and Roadway	PROF	ESSIONAL S	ERVICES	CONS	TRUCTION (if applicable)
Reconstruction of South Maple	St. and Powder Hill Road,	201	1		201	.2
Enfield, CT				-		
	23. PROJECT OWNER'S INFORM	ATION				
a. PROJECT OWNERb. POINT OF CONTACT NAMEc. POINT OF CONTACT TELEPHONE NUMTown of EnfieldMr. Matt Cropley, PE.860.763.7599			NE NUM	IBER		
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)						
Bridge Design using ABC and Precast Box Beams. This Locally Administered						
Federal-Local Bridge project involves the replacement of the substandard Project Relevance						Relevance
South Maple Street Bridge over the Scantic River and the reconstruction of the					s and Procedures	

South Maple Street Bridge over the Scantic River and the reconstruction of the South Maple Street and Powder Hill Road roadway approaches to provide adequate travel lanes and shoulders between the new bridge and the existing road. The replacement bridge accommodates vehicular, bicycle and pedestrian traffic, while maintaining and enhancing the rural nature of this roadway corridor. The project included removal of the existing bridge and all of its abutments, construction of a new 45-foot-wide bridge with a single 82-foot long span consisting of adjacent box beams on concrete abutments.

Project Relevance				
✓	DOT Policies and Procedures			
✓	Hydrology & Hydraulics Engineering			
✓	Geotechnical Engineering			
✓	Bridge Rehab/Replacement			
✓	Construction Inspection Services			

The bridge was designed and built using 100 percent precast elements for the substructure and superstructure. *This is the first fully precast bridge designed and built in Connecticut and the first ABC bridge in the state.* This approach cut the construction duration from 2 seasons to only 4 months and saved nearly \$1 million. Approximately 500LF of roadway was also reconstructed on South Maple St. and Powder Hill Road. Tectonic performed bridge condition inspection of the existing structure, prepared a type study report, and prepared preliminary and final PS&E bid documents. Construction support included bid phase services, working drawings and shop drawing review and periodic construction inspection including weekly construction meeting.

Tectonic performed periodic A checks during the construction phase.

The final construction cost was \$3.2 million. This project was the recipient of the 2012 ACEC Engineering Excellence Award.



	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT									
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE							
	Tectonic Engineering	Rocky Hill, CT	Prime Consultant							
а.	Consultants, Geologists & Land									
	Surveyors D.P.C., Inc.									

F. EXAMPLE PR(C (Present as many proj	20. EXAMPLE PROJECT KEY NUMBER							
21. TITLE AND LOCATION (City and State) Braeburn Road Culvert Rehabilitation - Bridge No. 06076; West Hartford, CT			22. yea essional services 18	CON	DMPLETED DNSTRUCTION (<i>if applicable</i>) Dn-going			
23. PROJECT OWNER'S INFORMATION								
a. PROJECT OWNER b. POINT OF CONTACT NAME Town of West Hartford Mr. Duane Martin, Town Engine			C. POINT OF CONTACT TELEPHO 860.561.7539	NE NUI	MBER			

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

This project involved the full rehabilitation of a twin corrugated metal culverts and installation of scour countermeasures at the outlet. A twin ACCMP 6' x 9½' culvert located in West Hartford, CT, was rated structurally "poor" in the 2014 CTDOT biennial inspection. This rating was predominately controlled by the channel scour and deterioration of the inverts and end walls, all of which required rehabilitation. Several locations below the spring line contained areas of missing or corroded steel panels and bolts. Localized voids had formed below the invert, compromising the stability of the culvert and roadway above. The end walls were comprised of mostly stone rubble which did not adequately channel the water into the culvert openings.

As part of the culvert rehabilitation, Tectonic performed an inspection of the culvert to identify the critical issues. A survey was performed of the project site, with the rights-of-way and wetlands delineated. Tectonic also performed a hydrologic and hydraulic analysis, including a scour analysis for the existing and proposed repair conditions. As part of the structural rehabilitation, three alternatives were developed. The final design included paved inverts with reinforced concrete and shear studs welded to the existing ACCMP. Permanent sheet piling was added to the streambed to mitigate the channel scour and end wall deterioration, in addition to enclosing the concrete added to the invert. Additional services include completing and submitting environmental permits, traffic and staging plans, design specifications and special provisions, and a construction cost estimate.

Tectonic performed construction inspection for the project.

Project Cost: \$330,000





13.34											
	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT										
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE								
	Tectonic Engineering	Glastonbury, CT	Prime Consultant								
a.	Consultants, Geologists & Land										
	Surveyors D.P.C., Inc.										

		G. KEY PERSONNEL PARTICIP	ATIC	ON IN	EXAMI	PLE PR	OJEC	IS				
	NAMES OF KEY PERSONNEL	27. ROLE IN THIS CONTRACT		28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for								
(From Section E, Block 12) Block 13)					participa	tion in sa	me or sir	nilar role.)	-		
	5,000,12,		1	2	3	4	5	6	7	8	9	10
effrey A	. Scala, PE, NBIS	Vice President / Quality Assurance	Х	X	X	Х	X	X	X	X	X	×
Ryan Bei	rgeron, EIT	Bridge Engineer		X		Х			X			×
ed Hair	nes, P.L.S.	Lead Survey Manager		x	x	Х			X		Х	×
′unus Fi	rtina, P.E.	Chief Inspector				Х						
(evin Fu	ller	Senior CAD Designer	х	x	x				x	x	х	×
'eter Ro	we, LS (Garg)	Licensed Surveyor										
												-
NO.	ΤΙΤΙ Ε ΟΕ ΕΧΑΜΡ		LE PROJECTS KEY									
1	TITLE OF EXAMPLE PROJECT (FROM SECTION F) CRCOG - CTDOT LOTCIP Engineering Construction: On-Call List 2			6	ConnDOT (SPN 0032-0130) Route 31 Reconstruction Coventry, CT							
2	North Main Street Over Trout Brook; West Hartford, CT			7	Upper Collinsville Dam, Canton, CT							
3 Crosby Street Bridge Rehabilitation; Danbury, CT				8	Replacement of the Bigelow Hollow Access Road Culvert over Bigelow Brook, Union, CT							
4	ConnDOT (SPN 004 and Safety Improve CT	2-0317) – Resurfacing, Bridge ments on Route 2, East Hartford,		9	Replacement of South Maple St. Bridge, and Roadway Reconstruction of South Maple St. and Powder Hill Road, Enfield, CT							
5 ConnDOT (SPN 0063-0633) Route 44 (Albany Avenue) Reconstruction; Hartford, CT			1	¹⁰ Braeburn Road Culvert Rehabilitation; West Hartford, CT								

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

Project Approach

Tectonic is familiar with Municipal Systems Projects funded through various State Programs including LOTCIP. This project encompasses the replacement of simple span bridges over a waterway. The improvements generally include detouring traffic, removal of the existing bridge and installation of new ones. Time constraints and permits are an integral part of the contract performance.

Tectonic will protect Andover's assets and capital expenditures by enforcing the contract plans and specifications. We will work with the Town and Contractor to ensure the materials and workmanship are correct.

Services required will include survey work, construction administration, field inspection, documentation and material testing associated with construction operations and layout staking.

Construction engineering and inspection services will involve several different areas of expertise. At a minimum, the selected inspection team must be fully conversant and highly experienced in the following short list of the most important areas of expertise:

- MSAT Documentation and Procedures (DWR's, Pay Estimates, Quantity Tracking, Material Testing, Certified payrolls, etcetera)
- Concrete and HMA Placement and Field Testing
- Maintenance and Protection of Traffic following MUTCD and ATSSA
- Construction Operations and Scheduling
- Job Site Safety
- Public Communication
- Utility Relocations and Protection
- Material Sampling and Testing



Key Project Issues

Construction engineering and inspection for this project will pose several challenges. The following key challenges, along with our strategy for addressing each challenge are presented below:

- Administrative Oversight and Bookkeeping
- Maintenance and Protection of Traffic, including access to private driveways.
- Job Site Safety and Safety Compliance
- Inspection and Materials
- Public Awareness and Coordination
- Problem Resolution
- Coordination

Administrative Oversight and Bookkeeping

The administrative aspects of the work are as important as the field inspection activities. Tectonic will prepare various correspondences, collect material certifications, prepare daily reports and progress reports, coordinate with property owners, utility representatives and others as necessary, receive shop drawings, assist with change order preparations, prepare payment estimates, and document the activities on the project. This includes preparation of Non-Compliance Notices (NCNs). Our bookkeeping will conform to the requirements.

Our inspectors will maintain daily work reports in accordance with ConnDOT MSAT bookkeeping practice for processing payment estimates, labor wage checks, contractor payrolls and payments will be agreed upon and reviewed for accuracy, and the Town of Andover will be advised of any discrepancies. Tectonic will prepare necessary reports and paperwork for submission to funding agencies including ConnDOT and FHWA if required. We will also review all contractor's requests for extra work payment, prepare change orders, and analyze requests for extensions of contract time as may be required and requested.

At the end of the contract, we will verify completion of the contract work and perform semi-final and final inspections, prepare punch lists and produce reports verifying correction of punch list items. Final change orders and final payments to the contractor will also be produced along with any final submissions required by the funding agencies. All records will be then turned over to the Town.

Defective work and materials will be tracked, without any payment, until corrected. Items that required testing or material certifications will not be processed for payment unless passing tests and material certifications are recorded.

Our inspectors will follow all project inspection requirements including:

- Preparing general correspondence
- Maintaining detailed daily project records
- Reviewing the schedule
- Materials sampling oversight and monitoring
- Measuring pay item quantities and preparing pay estimates. Due to waste, payment for materials placed is not usually equal to the material delivery tickets.
- Oversight of maintenance and protection of traffic (MPT)
- Oversight of work associated with permit requirements, and oversight of conformance of maintenance of environmental controls.
- Reviewing payment requests from the Contractor
- Reviewing and evaluating all the Contractor's claims for extra work and/or time extensions
- Preparing interim and final change order documentation

The Contractor is required to maintain and submit significant quantities of paperwork. This includes material certifications, shop drawings, working drawings, baseline and periodic schedules, labor wage reports, CLA-12 (subcontractor approvals), affirmative action, and other paperwork. We know the MSAT / LOTCIP requirements and will work closely with the Town and Contractor to collect and process all required documents.

Meeting the DBE/SBE goals (if required) is one area where many contractors have difficulties. Since the project has State funding, we expect that this will be necessary. Tectonic is committed to pushing the Contractor to meet this obligation. Tectonic is also committed to meeting any goal for our work if required. Tectonic has a strong relationship with several Certified DBE firms: VN Engineers has provided us with inspectors on similar projects, and Garg Consulting Services can provide inspectors and survey services.

Survey

Survey can be provided on an as-needed basis to verify or check construction operations, confirm layout staking and permit impact limits, obtain information requested by the Municipal Project Engineer and aid with intermediate and final quantities. Tectonic currently has 10 full time survey crews capable of performing any type of survey. Our capabilities include, A-2 and T-2, Boundary, Mobil Lidar, laser scanning, monitoring, control set up, GPS, property mapping and construction support. We have selected Garg Consulting Services to support this work as a certified DBE.

Maintenance and Protection of Traffic

Perhaps the most important issue on this project is maintaining the efficient flow of traffic while protecting motorists, pedestrians, cyclists, residents, and the workers within the construction work zone. This includes periods when the Contractor is not actively working.

Tectonic will ensure that the Contractor follows the Contract Specifications and Special Provisions for Maintenance and Protection of Traffic, including implementation of the Contract's traffic control plans. Unless otherwise indicated, the MUTCD guidelines are followed to the greatest extent possible. Many of our staff are ATTSA Traffic Control Supervisor Certified.

Tectonic will review the Contractor's Self Certification and FHWA Letter of Acceptance submittals certifying that all Category 1, 2, and 3 traffic control devices utilized by the Contractor conform to NCHRP Report 350. Professional Engineers or ATSSA trained personnel will lead the Tectonic team in coordinating all maintenance and protection of traffic activities with the Contractor on this project. We will ensure that all signs and devices are installed and removed in strict accordance with the Project Plans and Specifications, and that dedicated traffic control personnel are positioned at the right locations. We will direct the Contractor to remove damaged or unserviceable signs and devices from the project.

An agenda shall be established for work zone safety meetings, which will be held periodically with the Contractor. These meetings will be utilized to discuss safety and review protection required. "Public Awareness" is achieved by keeping the public informed of construction work schedules through advance public notifications. On similar projects we have found that periodic emails and updates to the Municipal web site are very effective.

Coordination with Town Officials and all Public Safety Agencies / Police will be required in advance of the implementation of the construction traffic patterns required by the Contract. Our field personnel will actively monitor the situation throughout the workday to ensure work zone conformity and minimal impacts to the traveling public.

Job Site Safety and Safety Compliance

Tectonic's inspection team members are 10-hour OSHA certified and are familiar with OSHA construction safety regulations. Although the contractor is responsible for overall project safety, Tectonic places a strong emphasis on safety and performs visual surveillance of construction activities to ensure that safe construction practices are being followed. Personal Protective Safety Equipment compliance is required by our staff at all times throughout the duration of the Project. Documentation of Project conditions, including regulatory compliance or deficiency will be performed regularly throughout the duration of the Project. Our staff will direct the Contractor to correct issues as necessary.

Inspection and Materials Testing

The primary focus of the field staff is to oversee the Contractor's work. Our Chief Inspector and part time Inspector will be on site during their activities to monitor and record the Contractor's work, collect samples for lab testing and perform on site testing as required. Our Field Team will step in to make corrections actively with the Contractor. As required, our efforts will be recorded in Daily Work Reports. The reports will record all the information required by MSAT to fully document the work, issues, and resolutions. Formal Non-Compliance Notices (NCNs) will be used if the Contractor will not or does not respond to field orders.

In additions, Tectonic field staff take extensive numbers of photos throughout each day. Prior to any construction activities, we will take existing condition photos of the area as part of our records.

The inspection of concrete work involves both quality control and quality assurance. Samples are taken and tested for quality assurance and final payment; however, once the concrete has cured there is little that can be done to correct problems—short of removal and reinstallation. Our coordination and field activities are designed to focus on quality control before and during material placement, and also as it finishes and cures.

Strategies to address concrete placement include:

- The Contractor will be required to submit a concrete placement plan. The Plan's procedures will be reviewed and approved prior to the commencement of this work in accordance with the Contract Specifications.
- Reinforced steel / mesh will be monitored. We will ensure the rebar is properly placed.
- Delivery tickets will be checked to confirm receipt of the approved mix from the approved plant.
- Existing base and delivered concrete temperatures will be verified to ensure conformity to the specifications for placement. We expect there will be a significant number of cold nights and morning of work extends into mid-October. Proper placing and curing are needed to ensure long term durability.
- Proper cross slopes, profiles, and grades will be evaluated and maintained during operations. Air content and slump will be measured.
- Concrete material will be checked for segregation during placement. Segregated areas will be removed and replaced with acceptable material.
- The Contractor will be monitored to ensure that the vibratory consolidation effort and patterns recommended by ACI are being followed and that placement is continuous to avoid cold joints.
- Inspection staff will enforce the placement specifications and procedures required for each pour to ensure that the final product will conform to the specifications and perform as intended.

Public Awareness and Coordination

It has been our experience that public awareness and satisfaction is best achieved by keeping residents informed of construction schedules and progress. This can easily be achieved by regular communication with stakeholders and residents. Coordination with property owners is especially critical if driveway access will be interrupted.

Coordination of material testing services is key to keeping this project on schedule, especially with the time restrictions that will be involved with this project. Tectonic personnel utilize all available methods of communication, including email, phone calls, and text messaging to provide real-time updates on schedules and to coordinate testing. Tectonic will team with a local firm, Inspection Materials Testing Laboratories, Inc., to provide immediate materials testing services as needed.

Familiarity with ConnDOT's Construction Inspection Standards & Procedures

Tectonic staff has all requisite NETTCP certifications for the key construction activities including concrete, HMA, and Quality Assurance certifications. In addition, many on our inspection staff also have certifications from other agencies

including ACI and ATSSA. Tectonic has been providing design services to ConnDOT and Connecticut Municipalities for more than 35 years and our team of technical engineers are capable to support the field staff as needed. The in-house design staff, in the Glastonbury Office, are veterans of ConnDOT and intimately familiar with the Department's construction policies and practices.

We have the staff, knowledge, skill, and construction experience to manage project documents and correspondence on a project of this size and complexity. We understand the importance of providing a project team who is intimately familiar with ConnDOT's construction inspection standards and procedures. Familiarity with these standards and procedures are essential to successfully complete any project within the State of Connecticut that involves federal and/or state funds. We will provide the Town of Andover with inspection staff who have in-depth knowledge of the ConnDOT's Construction Manual and Record Keeping procedures. This staff will be overseen by our Management Staff to ensure they are performing as required.

Familiarity with MSAT Requirements

Tectonic is very familiar with MSAT/ LOTCIP policies and procedures having staff who have worked closely with the DOT for many years performing construction inspection on municipal projects with state funding. Through this experience, we have gained an excellent working knowledge of contracting procedures and policies, design standards, and specifications. For Construction Engineering and Inspection projects, Tectonic understands our role and responsibility is as an extension of the Town. We closely monitor contractor operations, carefully prepare contractor payments and change orders, review shop drawings and other submissions, strictly monitor material testing, provide oversight and solutions to field issues, conduct all progress meetings, and manage any specifics involving administration of the contract for the Town. Tectonic will work in partnership with the Town to serve your best interests and will provide the level of quality the Town of Andover expects from Tectonic.

We recently completed Construction Inspection Services on 3 LOTCIP Project with 2 others scheduled for completion this spring.

Our Commitment to the Town of Andover

The Town of Andover needs a CEI team that is knowledgeable, skilled, works well under pressure, and above all recognizes the important responsibility they have as representatives of the Town. Our focus will ensure the Contractor conforms to the Contract Plans and Specifications and that our inspections and administration conform to CTDOT requirements. Tectonic and our team offer the following commitments to the Town of Andover:

Resources. The Tectonic team will take charge of the job and utilize our full breadth of resources available as a large regional firm to meet any and all challenges that may arise during the duration of this project. Tectonic is a full-service engineering firm and can offer roadway, bridge, civil and site engineering services to the Town, if required, at any time.

For this assignment we can make available as many resources as may be required, drawing from a pool of inspectors being assigned from our Glastonbury, CT office.

Competence. In addition to the skilled manpower to be dedicated to this assignment and our depth of additional resources (as needed), Tectonic also will provide expert management and guidance unsurpassed by our competitors. Jeff Scala, PE, as Senior Vice President / Construction Coordinator will lead the Tectonic field team throughout the duration of this project. We would like the Town to be able to take solace in the fact that ConnDOT has had confidence in the Tectonic CEI team, while performing at a high level of competency for many years on high visibility projects such as Albany Avenue Reconstruction in Hartford, the Route 31 Reconstruction in Coventry, Yankee Doodle Bridge Project and currently working on the Rte. 2 Rehabilitation project in East Hartford and Glastonbury and starting the mega Rte. 691, I-91, Rte. 15 interchange project in Meriden.

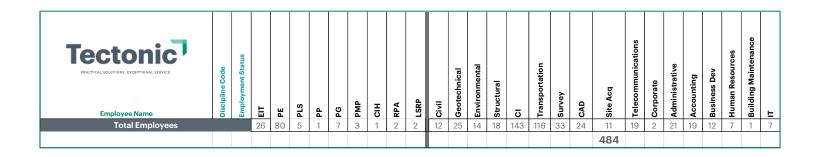
Our service ratings from CTDOT are "exceptional".

Quality. Tectonic requires thorough field documentation, measurements, and quantity computations from our inspection staff in compliance with ConnDOT's latest policies on all of our CEI projects and this assignment is no different. To assure the Town that we will not compromise in dispatching our duties, our staff will be regularly evaluated for adhering to the ConnDOT Construction Manual and MSAT requirements and sound judgment through our Quality Assurance/Quality Control Program. As is the policy of Tectonic, a project specific Quality Management Plan (QMP) may be developed and it will be the duty of our nominated QA/QC Jeffrey A. Scala, PE, to ensure that all quality and safety policies and procedures focused on quality are adhered to rigorously. He will perform periodic audits and review deliverables.

Availability. Tectonic strives to maintain a consistent and steady workload; our team is presently finishing up a majority of our projects without replacement. The timing of this project is absolutely perfect relative to the completion of other minor assignments, and we will commit the resources. Our construction inspection clients have always insisted on a sincere staff commitment and a commitment to staff continuity and availability throughout the length of the assignment. We understand why this commitment is so important to our clients— it is important to Tectonic for the same reason—staff commitment and continuity leads to a sense of teamwork, cooperation, a depth of project understanding, as well as a dedication to the project. Ultimately, this commitment produces the highest level of accountability and quality for all parties involved. Our team understands that this is potentially a multi-season assignment and that we will commit our resources to the Town of Andover for as long as it takes to reach successful completion. You have our sincere commitment that we can and will complete this project.

Depth of Staff

Currently Tectonic has a staff of nearly 500 employees and approximately 259 are dedicated to transportation projects. The depth of our staff and areas of expertise are shown in the table below.



I. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.

31. SIGNATURE

32. DATE February 21, 2024

33. NAME AND TITLE Jeffrey A. Scala, P.E., Senior Vice President

ARCHITECT – ENGINEER QUALIFICATIONS

SOLICITATION NUMBER (If any) 1. RFP AN-2024-25-01

10. PROFILE OF FIRM'S EXPERIENCE AND

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME	-		3. YEAR ESTABLISHED	4. UNIQUE ENTITY IDENTIFIER			
Tectonic Engineering Consultants, Geologi (Branch Office Glastonbury, CT)	1986	18-4603124					
2b. STREET			5. OWNERSHIP				
148 Eastern Boulevard, Suite 201			a. TYPE				
2c. CITY	2d. STATE	2e, ZIP CODE	Design Professional Corporation				
Glastonbury	СТ	06033	b. SMALL BUSINESS STATU	S			
6a. POINT OF CONTACT NAME AND TITLE	01	00000	None				
Jeffrey A. Scala, PE, NBIS Vice Presider	nt		7. NAME OF FIRM (If block 2a is a branch office) Tectonic Engineering & Surveying				
TELEPHONE NUMBER	6c. E-MAIL ADDRESS						
(860) 563-2341	ngineering.com	Consultants P.C.					
8a. FORMER FIRM N	8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER					
Tectonic Engineering P.C. Tectonic Engineering & Surveying Consulta Tectonic Engineering Consultants, Geologi	1987 1997 2021	18-4603124 18-4603124 18-4603124					

9. EMPLOYEES BY DISCIPLINE					10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS				
a. Function Code	b. Discipline	c. Number of Employees		a.		c. Revenue Index			
Code		(1) FIRM	(2) BRANCH	Profile Code	b. Experience	Number			
02	Administrative	65	2	oouc		(see below)			
05	Archeologist	3		B02	Bridges	6			
06	Architect	2		C10	Commercial Building	5			
08	CADD Technician	26	1	C15	Construction Management	7			
12	Civil Engineer	59		D02	Dams – earth, rock; dikes; levees	4			
13	Communications Engineer	0		E02	Educational Facilities; classrooms	7			
14	Computer Programmer	8		E09	EIS, assessments or statements	6			
15	Construction Inspector	121	8	E13	Environmental testing and analysis	4			
16	Construction Manager	8		G01	Garages; Vehicle Maint. Facilities; Parking	6			
19	Ecologist	1		G04	GIS	5			
21	Electrical Engineer	3				8			
23	Environmental Engineer	5	1	<u>H07</u>	Highways; streets; parking lots; airfield paving	-			
24	Environmental Scientist	8		<u>H11</u>	Housing-residential, multi-fam; apartments	6			
27	Foundation/Geotechnical Engr.	12	1	L02	Land Surveying	6			
30	Geologist	16		P06	Planning; -site, installation, project	6			
38	Land Surveyor	6		R04	Recreation Facilities (parks, marinas, etc)	5			
39	Landscape Architect	1		S05	Soils and Geologic Studies	6			
42	Mechanical Engineer	14		S10	Surveying; platting, map, flood plain studies	6			
47	Planner: Urban/Regional	4		T02	Testing and inspection services	8			
48	Project Manager	28		T03	Traffic and transportation engineering	5			
51	Safety/Occupational Health Eng	1		T04	Topographic surveying and mapping	6			
53	Scheduler	4		T05	Towers (guyed and self-supporting)	7			
54	Security Specialist	1							
57	Structural Engineer	15	2			+			
58	Technician/Analyst	22				+			
60	Transportation Engineer	35	5			+			
	Total	468	20			<u> </u>			

REVENUES OF FIRM	ROFESSIONAL SERVICES I FOR LAST 3 YEARS number shown at right)	1. Less than \$100,000 2. \$100,000 to less than \$250,000	/ICES REVENUE INDEX NUMBER 6. \$2 million to less than \$5 million 7. \$5 million to less than \$10 million				
a. Federal Work	3	3. \$250,000 to less than \$500,000 4. \$500,000 to less than \$1 million	8. \$10 million to less than \$25 million9. \$25 million to less than \$50 million				
b. Non-Federal Work10c. Total Work10		5. \$1 million to less than \$2 million	10. \$50 million or greater				
			-				
		12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.					
a. SIGNATURE	hard		b. DATE				
2	1/1/57		February 22, 2024				
c. NAME AND TITLE	100						

Jeffrey A. Scala, PE, NBIS | Senior Vice President