

AFFIDAVIT OF PRIME CONTRACTOR

To the best of my knowledge, information and belief, the facts and representations contained in the aforementioned DBE Utilization Plan are true and no material facts have been omitted. The undersigned will enter into formal agreements with the DBE firms listed in the attached DBE Utilization Plan. for this design /build project.

The S&R CORPORATION (Prime Contractor) designates the following person as the Manager, Office of Contract Compliance:

Steven Ploof (978) 441-2000
(Name - Please Print or Type) (Phone Number)

I do solemnly declare and affirm under the penalties of perjury that the contents of this document and attachments are true and correct. I am authorized on behalf of the above firm, to make this affidavit.

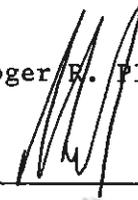
(Name of Prime Contractor - Print or Type)

S&R CORPORATION

(Name of Affidavit)

Roger R. Ploof, Jr., President

Date Authorized Signature


_____ 4/22/11

Title President

State of Massachusetts

County of Middlesex

On this 22nd day of April, 2011 before me, the undersigned officer, personally appeared Roger R. Ploof, Jr., known to me to be the person described in the foregoing Affidavit, and acknowledged that he (~~she~~) executed the same in the capacity therein stated and for the purposed therein contained.

In witness thereof, I hereunto set my hand and official seal.

 (Notary Public)
Linda A. Tardiff

My commission expires: December 7, 2012

BID BOND

Document A310™ – 2010

Conforms with The American Institute of Architects AIA Document 310

CONTRACTOR:

(Name, legal status and address)

S & R Corporation
706 Broadway Street,
Lowell, MA 01854

SURETY:

(Name, legal status and principal place of business)

Western Surety Company
100 Newport Ave Extension, 4th Floor
Quincy, MA 02171

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

OWNER:

(Name, legal status and address)

Rhode Island Department of Transportation,
RI

BOND AMOUNT: \$

Five Percent of the Attached bid (5%)

PROJECT:

(Name, location or address, and Project number, if any)

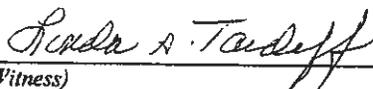
Design-Build Services for the Replacement of the Laurel Avenue Bridge No. 397, Coventry RI

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

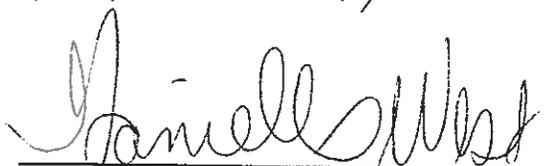
If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this **22nd** day of **April, 2011**

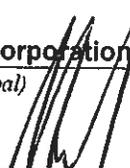


(Witness)



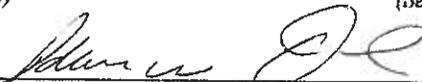
(Witness)

S & R Corporation
(Principal) _____ *(Seal)*



(Title) Roger R. Ploof Jr., President

Western Surety Company
(Surety) _____ *(Seal)*



(Title) Adam W. DeSanctis, Attorney-in-Fact

Western Surety Company

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

Gregory D Juwa, Richard F Caruso, James J Axon, Michael F Carney, Wilder Parks Jr, Michael T Gilbert, Adam W De Sanctis, Christine B Gallagher, Bryan F Juwa, Paul A Patalano, David A Boutiette, Judy Dean, Rebecca Stenquist, Individually

of Woburn, MA, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Senior Vice President and its corporate seal to be hereto affixed on this 1st day of March, 2011.



WESTERN SURETY COMPANY

Paul T. Bruflat

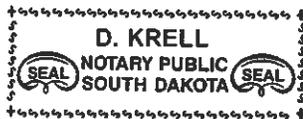
Paul T. Bruflat, Senior Vice President

State of South Dakota }
County of Minnehaha } ss

On this 1st day of March, 2011, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Senior Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires

November 30, 2012



D. Krell

D. Krell, Notary Public

CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 22nd day of April, 2011.



WESTERN SURETY COMPANY

L. Nelson

L. Nelson, Assistant Secretary



PRICE PROPOSAL

BID #7448315 **DESIGN/BUILD SERVICES** **For The Replacement of the** **Laurel Avenue Bridge #297** **Coventry, RI**

Submitted: April 22, 2011
S&R CORPORATION
706 Broadway Street
Lowell, MA 01854

RIDOT DBE UTILIZATION PLAN

Project Name: Replacement of the Laurel Ave. Bridge # 397
Coventry RI

I, Roger R. Ploof Jr. HEREBY DECLARE AND AFFIRM that I am the
President (Title) - *duly authorized representative*) of
S&R Corporation (Name of Prime Contractor/Consultant), and that I have personally
 reviewed the material and facts set forth in and submitted with this DBE Utilization Plan,
 including attached DBE subcontracts. The following correctly represents our commitment
 to the DBE participation on this contract.

Name DBE Firms and Address	Type of Work to be Performed Contract Amount	DBE Contract Amount
HB Welding 117 Webster St., Pawtucket RI 02861	Furnish & Install Bridge Structural Steel \$3,515,000	\$380,000
Desperini Contracting Group Inc. 65 Jefferson Blvd., Warwick RI 02888	Furnish & Install Reinforcing Steel \$3,515,000	\$220,000
Lamson Engineering 437 Cherry Street, Newton MA 02465	Geotechnical Engineers \$621,000	\$ 45,000
Northstar Hydo 8 Go Way, Winthrop, ME 04364	Hydrology, Hydraulics and Scour \$621,000	\$ 15,000
Applied Bio-Systems, Inc. P. O. Box 985, West Kingstown, RI 02892	Environmental Manager & Permitting \$621,000	\$ 30,000

Signature: 
 Roger R. Ploof Jr., President

Date: April 22, 2011

Description	Qty	Unit	Total	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13
D-1 Preliminary Engineering	1	LS	\$ 40,000.00	\$ 40,000.00																						
D-2 Historical / Environmental Coordination	1	LS	\$ 70,000.00	\$ 70,000.00																						
D-3 Foundation Design	1	LS	\$ 92,000.00	\$ 92,000.00																						
D-4 Substructure Design	1	LS	\$ 102,000.00		\$ 102,000.00																					
D-5 Superstructure Design	1	LS	\$ 145,000.00			\$ 55,000.00	\$ 50,000.00	\$ 40,000.00																		
D-6 Profile / Highway Design	1	LS	\$ 110,000.00			\$ 40,000.00	\$ 40,000.00	\$ 30,000.00																		
D-7 Utilities	1	LS	\$ 62,000.00			\$ 22,000.00	\$ 20,000.00	\$ 20,000.00																		
C-1 Mobilization	1	LS	\$ 120,000.00			\$ 120,000.00																				
C-2 Structure Monitoring	1	LS	\$ 138,000.00			\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 6,000.00									
C-3 Site Preparation	1	LS	\$ 200,000.00			\$ 100,000.00	\$ 100,000.00																			
C-4 Demolition	1	LS	\$ 37,000.00				\$ 18,500.00			\$ 18,500.00																
C-5 Utilities	1	LS	\$ 31,000.00										\$ 15,500.00	\$ 15,500.00												
C-6 Foundations	1	LS	\$ 413,000.00									\$ 213,000.00	\$ 200,000.00													
C-7 Substructures	1	LS	\$ 226,000.00										\$ 226,000.00													
C-8 Superstructure	1	LS	\$ 1,158,000.00											\$ 300,000.00	\$ 300,000.00	\$ 300,000.00	\$ 258,000.00									
C-9 Roadway Approaches	1	LS	\$ 150,000.00															\$ 30,000.00	\$ 30,000.00					\$ 30,000.00	\$ 30,000.00	\$ 30,000.00
C-10 Reconstruct River Bed Splash Pad	1	LS	\$ 880,000.00				\$ 220,000.00	\$ 220,000.00	\$ 220,000.00	\$ 220,000.00																
C-11 New Spillway Walls / Stone Fascias	1	LS	\$ 162,000.00					\$ 81,000.00				\$ 81,000.00														
Total Cost of Project / Monthly Payments			\$ 4,136,000.00	\$ 202,000.00	\$ 102,000.00	\$ 349,000.00	\$ 460,500.00	\$ 403,000.00	\$ 12,000.00	\$ 250,500.00	\$ 232,000.00	\$ 306,000.00	\$ 438,000.00	\$ 327,500.00	\$ 327,500.00	\$ 312,000.00	\$ 264,000.00	\$ 30,000.00	\$ 30,000.00	\$ -	\$ -	\$ -	\$ -	\$ 30,000.00	\$ 30,000.00	\$ 30,000.00

Price Proposal Form			
Item No.	Description	Unit	Total
D-1	Preliminary Engineering	lump sum	\$ 40,000.00
D-2	Historical/Environmental Coordination	lump sum	\$ 70,000.00
D-3	Foundation Design	lump sum	\$ 92,000.00
D-4	Substructure Design	lump sum	\$ 102,000.00
D-5	Superstructure Design	lump sum	\$ 145,000.00
D-6	Profile/Highway Design	lump sum	\$ 110,000.00
D-7	Utilities	lump sum	\$ 62,000.00
C-1	Mobilization	lump sum	\$ 120,000.00
C-2	Structure Monitoring	lump sum	\$ 138,000.00
C-3	Site Preparation	lump sum	\$ 200,000.00
C-4	Demolition	lump sum	\$ 37,000.00
C-5	Utilities	lump sum	\$ 31,000.00
C-6	Foundations	lump sum	\$ 413,000.00
C-7	Substructures	lump sum	\$ 226,000.00
C-8	Superstructure	lump sum	\$ 1,158,000.00
C-9	Roadway Approaches	lump sum	\$ 150,000.00
C-10	Reconstruct River Bed Splash Pad	lump sum	\$ 880,000.00
C-11	New Spillway Walls/Stone Fascias	lump sum	\$ 162,000.00
Total Cost of Project: (Bidder shall specify price information in both words and numbers)			
Lump Sum: Four Million One Hundred Thirty-Six Thousand Dollars & No Cents			\$ 4,136,000.00

D: Denotes Design Items; C: Denotes Construction Items

Owner/President Signature:  Roger R. Ploof Jr. President Date: April 22, 2011

Address: 706 Broadway Street
Lowell MA 01854

Design / Build Replacement of Laurel Ave. Bridge No. 397 - Coventry, RI
Rhode Island Contract No. 2010-DF-055
S&R Corporation

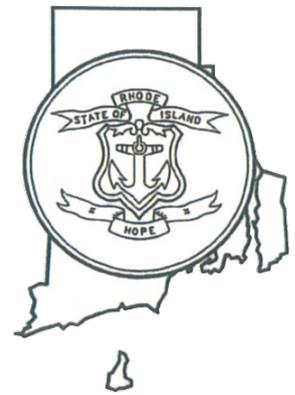
Schedule of Values for the Price Proposal.

<u>Major Work Task</u>	<u>Quantity</u>	<u>Unit</u>	<u>Total Value</u>
Demolition, N. Abutment	14	cy	\$ 3,000
Demolition, S. Abutment	159	cy	\$ 34,000
Drain Structures	3	ea	\$ 22,000
Drain Pipe	65	lf	\$ 9,000
Mini Pile Foundations	1600	lf	\$ 413,000
Substructure Concrete	169	cy	\$ 127,000
Substructure Rebar	16900	lb	\$ 99,000
Superstructure Structural Steel	78.5	tn	\$ 580,000
Superstructure Rebar	42500	lb	\$ 284,000
Superstructure Concrete	170	cy	\$ 190,000
Bridge Railing	172	lf	\$ 31,000
Bridge Deck Waterproofing	318	sy	\$ 33,000
Bridge Deck Asphaltic Joint	64	lf	\$ 15,000
Bridge Deck Paving	72	tn	\$ 13,000
Excavation	685	cy	\$ 30,000
Gravel	750	cy	\$ 58,000
Roadway Paving	200	tn	\$ 35,000
Concrete Curb	100	lf	\$ 4,000
Guard Rail	90	lf	\$ 12,000
Fence	175	lf	\$ 9,000
Support of Excavation	2000	sf	\$ 595,000
Splash Pad Concrete	208	cy	\$ 164,000
Splash Pad Rebar	20800	lb	\$ 122,000
Spillway Wall Concrete	67	cy	\$ 64,000
Spillway Wall Rebar	6800	lb	\$ 39,000
Spillway Wall Fascia Stone	900	sf	\$ 59,000

State of Rhode Island and Providence Plantations
Department of Transportation

Bid No. 7448315

Proposal for
Design Build Services:
The Replacement of the Laurel Avenue
Bridge No. 397, Coventry, Rhode Island



APRIL 22, 2011

Submitted by:
S&R Corporation



In association with:
Garofalo & Associates, Inc.



State of Rhode Island and Providence Plantations Contract Offer
RIVIP GENERATED BIDDER CERTIFICATION COVER FORM

SECTION 1 - VENDOR INFORMATION

Bid/RFP Number: 7448315A6

Bid/RFP Title: RFP - DESIGN / BUILD SVCS FOR REPLACEMENT OF LAUREL AVE BRIDGE #397 (ADDEN

Opening Date & Time: 4/22/2011 11:30 AM

RIVIP Vendor ID #: 44825

Vendor Name: S&R Corporation

Address: 706 Broadway Street
Lowell, MA 01854
USA

Telephone: (978) 441-2000

Fax: (978) 441-2002

E-Mail: ltardiff@sandrcorp.com

Contact Person: Linda A. Tardiff

Title: Contract Administrator

R.I. Foreign Corp #:

*****NOTICE TO VENDORS*****

Effective January 1, 2011 all public works project related bids or proposals exceeding one million (\$1,000,000) dollars are required to include a "public copy". All agency contract solicitations, requests for proposals, invitations for bids, etc. shall state that any bid or proposal that exceeds one million (\$1,000,000) dollars must include a copy to be available for public inspection upon the opening of the bids. Any bid or proposal in excess of one million (\$1,000,000) dollars which does not include a copy for public inspection shall be deemed to be non-responsive. For further information, please see R. I. Gen. Laws §37-2-18 (P.L. 221) <http://www.rilin.state.ri.us/PublicLaws/law10/law10221.htm> and Purchasing Rules & amendment at <http://www.purchasing.ri.gov/Notices2.aspx>. See Question #11 below for further instructions regarding RIDOT Highway and Bridge Construction projects.

In addition, the Division of Purchases has promulgated proposed regulations pursuant to R.I. Gen. Laws § 37-2-18 that implements the "public copy" requirement. Public hearing on the proposed regulations was held on Friday, December 17, 2010. The proposed regulations became final on January 11, 2011. For further information please visit www.sos.ri.gov.

NOTE: AWARD OF CONTRACTS AND PURCHASE ORDERS SHALL BE SUBJECT, AT THE DISCRETION OF THE PURCHASING AGENT, TO THE OFFEROR COMPLETING AN ON-LINE RIVIP REGISTRATION at www.purchasing.ri.gov. It is THE RESPONSIBILITY OF THE VENDOR to make on-line corrections/updates using the Vendor maintenance program on the RI Division of Purchases Web Site.

SECTION 2 - REQUIREMENTS

ALL OFFERS ARE SUBJECT TO THE REQUIREMENTS, PROVISIONS AND PROCEDURES CONTAINED IN THIS THREE-PAGE CERTIFICATION FORM. Offerors are expected to READ, SIGN and COMPLY with all requirements. Failure to do so may be grounds for disqualification of the offer contained herein.

Section 2.1 - RULES FOR SUBMITTING OFFERS

2.1A. This CERTIFICATION FORM MUST BE ATTACHED IN ITS ENTIRETY TO THE FRONT OF THE OFFER and shall be considered an integral part of each offer made by a vendor to enter into a contract with the State of Rhode Island, Division of Purchases. As such, submittal of the entire Bidder Certification Cover Form, signed by a duly authorized representative of the offeror attesting that he/she (1) has read and agrees to comply with the requirements set forth herein and (2) to the accuracy of the information provided and the offer extended, is a mandatory part of any contract award.

To assure that offers are considered on time, each offer must be submitted with the specific Bid/RFP/LOI number (provided above), date and time of opening marked in the upper left hand corner of envelope. Each bid/offer must be submitted in separate sealed envelopes.

A complete, signed (in ink) offer package, must be delivered to the Division of Purchases (via any mail or messenger service) by the time and date specified for the opening of responses in a sealed envelope.

Bids must be submitted on the RI bid solicitation forms provided, indicating brand and part numbers of items offered, as appropriate. Bidders must submit detailed cuts and specs on items offered as equivalent to brands requested WITH THE OFFER. Bidders must be able to submit samples if requested.

Mail To: Division of Purchases, One Capitol Hill, Second Floor, Providence, RI 02908-5855.

Documents misdirected to other State locations or which are not present in the Division of Purchases at the time of opening for whatever cause will be deemed to be late and will not be considered. For the purposes of this requirement, the official time and date shall be that of the time clock in the Division of Purchases. Postmarks shall not be considered proof of timely submission.

2.1B. RIVIP SOLICITATIONS. To assure maximum access opportunities for users, public bid/RFP solicitations shall be posted on the RIVIP for a minimum of seven days and no amendments shall be made within the last five days before the date an offer is due. Except when access to the Web Site has been severely curtailed and it is determined by the State Purchasing Agent that special circumstances preclude extending a solicitation due date, requests to mail or fax hard copies of solicitations will not be honored. When the result of an Internet solicitation is unsuccessful, the State of Rhode Island will cancel the original solicitation and resolicit the original offer directly from vendors.

2.2. PRICING. Offers are irrevocable for sixty (60) days from the opening date (or such other extended period set forth in the solicitation) and may not be withdrawn, except with the express permission of the State Purchasing Agent. All pricing will be considered to be firm and fixed unless otherwise indicated. The State of Rhode Island is exempt from Federal excise taxes and State Sales and Use Taxes. Such taxes shall not be included in the bid price. PRICES QUOTED ARE FOB DESTINATION.

2.3. DELIVERY and PRODUCT QUALITY. All offers must define delivery dates for all items; if no delivery date is specified, it is assumed that immediate delivery from stock will be made. The contractor will be responsible for delivery of materials in first class condition. Rejected materials will be at vendor's expense.

2.4. PREVAILING WAGE, OSHA and APPRENTICESHIP.

2.4.1 Prevailing Wage and OSHA Safety Training Requirements. The provisions of the State labor laws and OSHA Safety Training, including but not limited to Rhode Island General Laws 37-13-1 et seq. and 28-20-1 et seq., shall apply for all public works contracts. Prevailing wage rates are posted in the information section of the RIVIP. The RI Department of Labor and Training should be contacted for regulatory requirements.

2.4.2 (a) Apprenticeship. Rhode Island General Laws §37-13-3.1 requires all general contractors and subcontractors who perform work on any public works contract awarded by the state valued at one million dollars (\$1,000,000) or more shall employ apprentices required for the performance of the awarded contract. The number of apprentices shall comply with the apprentice to journeyman ratio for each trade approved by the apprenticeship council of the department of labor and training.

2.4.2(b) In addition to executing this certification, the general contractor shall be responsible for requiring that all subcontractors on the awarded project certify their compliance with R.I. Gen. Laws §37-13-3.1 prior to allowing the subcontractor to commence work on the awarded project. The general contractor shall be responsible for submitting the subcontractors compliance certification to the Division of Purchases after the contracts are finalized between the contractor and subcontractor.

2.5. PUBLIC RECORDS. Offerors are advised that all materials submitted to the State for consideration in response to this solicitation will be considered without exception to be Public Records pursuant to Title 38 Chapter 2 of the Rhode Island General Laws, and will be released for inspection immediately upon request once an award has been made. Offerors are encouraged to attend public bid/RFP openings to obtain information; however, bid/RFP response summaries may be reviewed after award(s) have been made by using the RIVIP at any time or appearing in person at the Division of Purchases Mondays through Fridays between 8:30 a.m. and 3:30 p.m. Telephone requests for results will not be honored. Written requests for results will only be honored if the information is not available on the RIVIP.

SECTION 3 - AWARD DETERMINATION

Award will be made to the responsive and responsible offeror quoting the lowest net price in accordance with specifications, for any individual item(s), for major groupings of items, or for all items listed, at the State's sole option.

3.1. BID SURETY. Where bid surety is required, bidder must furnish a bid bond or certified check for 5% of the bid total with the bid, or for such other amount as may be specified. Bids submitted without a required bid surety will not be considered.

3.2. SPECIFICATIONS. Unless specified "no substitute," product offerings equivalent in quality and performance will be considered (at the sole option of the State) on the condition that the offer is accompanied by detailed product specifications. Offers which fail to include alternate specifications may be deemed nonresponsive.

SECTION 4 – CONTRACT PROVISIONS

4.1. VENDOR AUTHORIZATION TO PROCEED.

4.1A. When a purchase order, change order, contract/agreement or contract/agreement amendment is issued by the RI Division of Purchases, no claim for payment for services rendered or goods delivered contrary to or in excess of the contract terms and scope shall be considered valid unless the vendor has obtained a written change order or contract amendment issued by the Division of Purchases PRIOR TO delivery.

4.1B. Any offer, whether in response to a solicitation for proposals or bids, or made without a solicitation, which is accepted in the form of an order OR Pricing Agreement made in writing by the Purchasing Agent, or a state official with purchasing authority delegated by the Purchasing Agent, shall be considered a binding contract.

4.2. REGULATIONS, GENERAL TERMS AND CONDITIONS GOVERNING STATE CONTRACTS. This solicitation and any contract or purchase order arising from it are issued in accordance with the specific requirements described herein, and the State's Purchasing Laws and Regulations and other applicable State Laws. The Regulations, General Terms and Conditions are incorporated into all state contracts. These regulations and basic information on How To Do Business with the State of Rhode Island are posted on the Rhode Island Vendor Information Program Website (www.purchasing.ri.gov).

4.2A. ARRA SUPPLEMENTAL TERMS AND CONDITIONS. Contracts and sub-awards funded in whole or in part by the American Recovery and Reinvestment Act of 2009. Pub.L.No. 111-5 and any amendments thereto, such contracts and sub-awards, shall be subject to the Supplemental Terms and Conditions For Contracts and Sub-awards Funded in Whole or in Part by the American Recovery and Reinvestment Act of 2009. Pub.L.No. 111-5 and any amendments thereto located on the Division of Purchases website at www.purchasing.ri.gov.

4.3. EQUAL EMPLOYMENT OPPORTUNITY. Compliance certificate and agreement procedures will apply to all awards for supplies or services valued at \$10,000 and more. Minority Business Enterprise policies and procedures, including subcontracting opportunities as described in Title 37 Chapter 14.1, of the Rhode Island General Laws, also apply.

Revised: 3/21/11

4.4. PERFORMANCE BONDS. Where indicated, successful bidder must furnish a 100% performance bond and labor and payment bond for contracts subject to Title 37 Chapters 12 and 13 of the Rhode Island General Laws. All bonds must be furnished by a surety company authorized to conduct business in the State of Rhode Island. Performance bonds must be submitted within 21 calendar days of the issuance of a tentative notice of award.

4.5. DEFAULT and NON-COMPLIANCE. Default and/or non-compliance with the RIVIP requirements and any other aspects of the award may result in withholding of payment(s), contract termination, debarment, suspension, or any other remedy necessary that is in the best interest of the state.

4.6. COMPLIANCE. Vendor must comply with all applicable federal, state and local laws, regulations and ordinances.

4.7. SPRINKLER IMPAIRMENT AND HOT WORK. The Contractor agrees to comply with the practices of the State's insurance carrier for sprinkler impairment and hot work. Prior to performing any work, the Contractor shall obtain the necessary information for compliance from the Risk Management Office at the Department of Administration or the agency for which work will be performed.

SECTION 5 – CERTIFICATIONS AND DISCLOSURES
ALL CONTRACT AWARDS ARE SUBJECT TO THE FOLLOWING DISCLOSURES & CERTIFICATIONS
Offerors must respond to every disclosure statement.

A person authorized to enter into contracts must sign the offer and attest to the accuracy of all statements.

Indicate Yes (Y) or No (N):

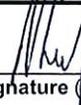
- N 1. Has your firm (or any principal) been subject to any of the following findings by the Federal Government, the State of Rhode Island or any other jurisdiction? Suspension, Debarment, Indictment, Criminal Conviction. CIRCLE APPROPRIATE ITEM(S).
- N 2. Has your firm (or any principal) been fined more than \$5000 for a single violation by the Rhode Island Department of Environmental Management for violation of Rhode Island Wetlands law?
- Y 3. I/we certify that I/we will immediately disclose, in writing, to the Chief Purchasing Officer any potential conflict of interest, which may occur during the course of the engagement authorized pursuant to this contract.
- Y 4. I/we acknowledge that, in accordance with Chapter 37-2-54(c) of the Rhode Island General Laws "no purchase or contract shall be binding on the state or any agency thereof unless approved by the Department [of Administration] or made under general regulations which the Chief Purchasing Officer may prescribe", including change orders and other types of contracts and under State Purchasing Regulation 8.2.1.1.2, "any alleged oral agreement or arrangements made by a bidder or contractor with any agency or an employee of the Office of Purchases may be disregarded and shall not be binding on the state".
- Y 5. I/we certify that the above vendor information is correct and complete.
- Y 6. I/we certify that I/we or my/our firm possesses all licenses required by Federal and State laws and regulations as they pertain to the requirements of the solicitation and offer made herein and shall maintain such required license(s) during the entire course of the contract resulting from the offer contained herein and should my/our license lapse or be suspended, I/we shall immediately inform the Rhode Island State Purchasing Agent in writing of such circumstance.
- Y 7. I/we certify that I/we will maintain required insurance during the entire course of the contract resulting from the offer contained herein and should my/our insurance lapse or be suspended, I/we shall immediately inform the Rhode Island State Purchasing Agent in writing of such circumstance.
- Y 8. I/we certify that I/we understand that falsification of any information herein or failure to notify the Rhode Island State Purchasing Agent as certified herein may be grounds for suspension, debarment and/or prosecution for fraud.
- Y 9. I/we acknowledge that the provisions and procedures set forth in this three-page form apply to any contract arising from this offer.
- Y 10. I/we acknowledge that I/we understand the State's Purchasing Laws (37-2 of the General Laws of Rhode Island) and Purchasing Regulations and General Terms and Conditions available at the Rhode Island Division of Purchases Website (www.purchasing.ri.gov) apply as the governing conditions for any contract or purchase order I/we may receive from the State of Rhode Island, including the offer contained herein.
- Y 11. **NEW REQUIREMENT* - IMPORTANT!!!** I/we hereby acknowledge that I/we understand that effective January 1, 2011 all public works related project bids or proposals exceeding One Million Dollars (\$1,000,000), inclusive of all proposed alternates, must include a "public copy" as required by R.I. Gen. Laws § 37-2-18 and the "Rules, Regulations and General Conditions of Purchases". It is further understood that any bid or proposal in excess of One million Dollars (\$1,000,000) which does not include a copy for public inspection shall be deemed to be non-responsive.

RIDOT Highway and Bridge Public Works related projects utilizing Quest Lite program only – Effective immediately, submission to the Division of Purchases of a duplicate original of a vendor's Quest Lite compatible electronic copy on a readable compact disk shall satisfy the statutory "public copy" requirements. Quest Lite software is defined in the Division of Purchases "Rules, Regulations and General Conditions of Purchases" §12.102.05 (Preparation of Proposal), as adopted on December 15, 2010 and January 11, 2011.

For further information, please see R.I Gen. Laws § 37-2-18 and specific instructions at www.purchasing.ri.gov .

IF YOU HAVE ANSWERED "YES" TO QUESTIONS #1-2 OR IF YOU ARE UNABLE TO CERTIFY YES TO ITEMS #3-11 OF THE FOREGOING, PROVIDE DETAILS/EXPLANATION BELOW AND/OR IN AN ATTACHED STATEMENT. INCOMPLETE CERTIFICATION FORMS SHALL BE GROUNDS FOR DISQUALIFICATION OF OFFER.

Signature below commits vendor to the attached offer and certifies (1) that the offer has taken into account all solicitation amendments, (2) that the above statements and information are accurate and that vendor understands and has complied with the requirements set forth herein. When delivering offers in person to One Capitol Hill, vendors are advised to allow at least one hour additional time for clearance through security checkpoints.

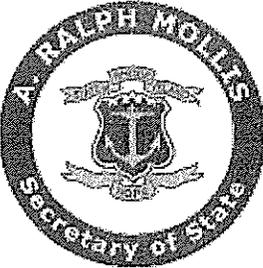


Vendor's Signature (Person authorized to enter into contracts; signature must be in ink.)

Date April 22, 2011

Roger R. Ploof Jr., President - S&R Corporation

Print Name and Title of company official signing offer
Revised: 3/21/11



State of Rhode Island and Providence Plantations
Office of the Secretary of State

Division Of Business Services
148 W. River Street
Providence RI 02904-2615
(401) 222-3040



S&R Corporation Summary Screen

Help with this form

[Request a Certificate](#)

The exact name of the Foreign Corporation: S&R Corporation

Entity Type: Foreign Corporation

Identification Number: 000257066

Date of Qualification in Rhode Island: 09/27/2007

The Foreign Corporation is organized under the laws of: State: MA Country: USA

The location of its principal office:

No. and Street: 706 BROADWAY STREET

City or Town: LOWELL

State: MA

Zip: 01854

Country: USA

The mailing address or specified office:

No. and Street:

City or Town:

State:

Zip:

Country:

Agent Resigned: N

Address Maintained: Y

Name and address of the Registered Agent:

No. and Street: 155 SOUTH MAIN STREET, SUITE 301

City or Town: PROVIDENCE

State: RI

Zip: 02903

Name: CT CORPORATION SYSTEM

The officers and all of the directors of the corporation:

Title	Individual Name First, Middle, Last, Suffix	Address Address, City or Town, State, Zip Code, Country
PRESIDENT	ROGER PLOOF	706 BROADWAY STREET LOWELL, MA 01854 USA
TREASURER	STEVEN PLOOF	706 BROADWAY STREET LOWELL, MA 01854 USA
SECRETARY	MARY D PLOOF	706 BROADWAY STREET LOWELL, MA 01854 USA

The total number of shares and par value, if any, of each class of stock which the business entity is authorized to issue:

Class of Stock	Series of Stock	Par Value Per Share	Total Authorized Shares <i>Num of Shares</i>	Total Issued and Outstanding <i>Num of Shares</i>
CNP		\$0.0000	100.00	0.00

Purpose

GENERAL CONTRACTOR

Select a type of filing from below to view this business entity filings:

- ALL FILINGS
- Annual Report
- Annual Report - Amended
- Application for Amended Certificate of Authority
- Application for Certificate of Authority

Click Here to access 2006 and 2007 annual reports filed and imaged prior to July 25, 2007. Identification Number is Required

[View Filings](#)

[New Search](#)



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS
CHARLES ORMS BUILDING
10 ORMS STREET
SUITE 324
PROVIDENCE, RHODE ISLAND 02904
(401) 277-2565

March 23, 1993

Garofalo & Associates, Inc. #5114
85 Corliss Street
P.O. Box 6145
Providence, RI 02940

Dear Sirs,

The Rhode Island Board of Registration for Professional Engineers has reviewed your application and has determined that you are properly registered as a Corporation. You have, therefore, been assigned the number that appears immediately after your business name on this correspondence.

In all future instances of corresponding with the Board, please be sure to utilize this number in identifying your firm. Without this number, the Board will not be able to properly review any records or inquiries that you may have inasmuch as all registrations are done by number and not by name. If you have any questions regarding this process, please feel free to contact this board.

Very truly yours,

Agnes R. Smith
Administrative Secretary

ARS/sab

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
 DEPARTMENT OF BUSINESS REGULATION • DIVISION OF DESIGN PROFESSIONALS
 BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS
 THE REGISTRANT HAS MET THE REQUIREMENTS OF THE LAW AND
 HAS BEEN GRANTED THIS CERTIFICATE OF REGISTRATION AS A
 PROFESSIONAL ENGINEER

REGISTRANT (VALID WHEN STAMPED) REGISTRATION NUMBER
JEFF E. LEWIS **6249**

62 BRAVENDER WAY
DUXBURY, MA 02332

EXP. DATE
06/30/2011

Jeff E. Lewis
 SIGNATURE (NOT VALID UNLESS SIGNED)

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
 DEPARTMENT OF BUSINESS REGULATION • DIVISION OF DESIGN PROFESSIONALS
 BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS
 THE REGISTRANT HAS MET THE REQUIREMENTS OF THE LAW AND
 HAS BEEN GRANTED THIS CERTIFICATE OF REGISTRATION AS A
 PROFESSIONAL ENGINEER **CIVIL**

REGISTRANT (VALID WHEN STAMPED) REGISTRATION NUMBER
PHILIP M. FUSCO **8200**

48 CASTLETON DR
CRANSTON, RI 02921

EXP. DATE
06/30/2011

Philip M. Fusco
 SIGNATURE (NOT VALID UNLESS SIGNED)

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
 DEPARTMENT OF BUSINESS REGULATION • DIVISION OF DESIGN PROFESSIONALS
 BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS
 THE REGISTRANT HAS MET THE REQUIREMENTS OF THE LAW AND
 HAS BEEN GRANTED THIS CERTIFICATE OF REGISTRATION AS A
 PROFESSIONAL ENGINEER

REGISTRANT (VALID WHEN STAMPED) REGISTRATION NUMBER
CHRISTINE ANN PALMER **6023**

1158 SISSON ROAD
GREENE, RI 02827

EXP. DATE
06/30/2011

Christine Ann Palmer
 SIGNATURE (NOT VALID UNLESS SIGNED)

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
 DEPARTMENT OF BUSINESS REGULATION • DIVISION OF DESIGN PROFESSIONALS
 BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS
 THE REGISTRANT HAS MET THE REQUIREMENTS OF THE LAW AND
 HAS BEEN GRANTED THIS CERTIFICATE OF REGISTRATION AS A
 PROFESSIONAL ENGINEER **CIVIL**

REGISTRANT (VALID WHEN STAMPED) REGISTRATION NUMBER
MATTHEW W. COTE **7769**

32 RUSSELL TENNANT DR
ATTLEBORO, MA 02703

EXP. DATE
06/30/2011

Matthew W. Cote
 SIGNATURE (NOT VALID UNLESS SIGNED)

State of Rhode Island and Providence Plantations



STATE BOARD OF REGISTRATION
FOR PROFESSIONAL LAND SURVEYORS

BE IT KNOWN THAT

GAROFALO & ASSOCIATES, INC.

having given satisfactory evidence of meeting the qualifications required
by law is hereby issued this Certificate of Authorization to practice

Professional Land Surveying

IN THE STATE OF RHODE ISLAND

as a **CORPORATION**

Person(s) listed in responsible charge: **LEONARD A. GAROFALO** PLS #1640
SAMUEL A. WHITE, JR. PLS #1781

IN WITNESS WHEREOF, THE BOARD HAS ISSUED THIS CERTIFICATE OF AUTHORIZATION NO. **LS-A59**

UNDER THE SEAL OF THE BOARD THIS 9TH DAY OF SEPTEMBER, 2004

AND IS VALID FROM ~~JANUARY 1, 2004~~ **JULY 29TH, 2004** to **MAY 31st, 2005**

STATE BOARD OF REGISTRATION FOR
PROFESSIONAL LAND SURVEYORS

Joseph W. Trisella
CHAIRMAN

David R. Sheldor
SECRETARY



STATE OF RHODE ISLAND



STATE BOARD OF REGISTRATION
FOR PROFESSIONAL ENGINEERS

BE IT KNOWN THAT

THIELSCH ENGINEERING, INC.

*having given satisfactory evidence that having the qualifications required
by law is hereby authorized to practice*

Professional Engineering

IN THE STATE OF RHODE ISLAND

as a Corporation

IN WITNESS WHEREOF, THE BOARD HAS ISSUED THIS CERTIFICATE OF REGISTRATION
NO. 5201 UNDER THE SEAL OF THE BOARD THIS 5TH DAY OF AUGUST 1993.



STATE BOARD OF REGISTRATION FOR
PROFESSIONAL ENGINEERS

[Signature]
CHAIRMAN

SECRETARY



DESANCTIS INSURANCE AGENCY, INC.

Phone: (781) 935-8480
Fax: (781) 933-5645

36 Cummings Park
Woburn, Massachusetts 01801

March 24, 2011

Rhode Island Department of Transportation

RE: **S&R Corporation , Lowell, MA**

PROJECT: Design- Build Services for The Replacement of the Laurel Avenue Bridge No. 397, Coventry, RI

To Whom It May Concern:

Western Surety Company, hereby issues this letter of commitment to issue a certain Performance and Payment Bond in favor of S&R Corporation in connection with the proposed contract between S&R Corporation and Rhode Island Department of Transportation which is the range of \$3,400,000.

This letter is written with the understanding that the Surety's obligation only relates to the proposed contract and bond forms and is also subject to receipt, review and acceptance of any necessary underwriting data. This commitment will expire in 30 days from the bid date.

Please note that any arrangement for performance and/or payment bonds is a matter between the contractor and surety. We assume no liability to third parties, or to you, if for any reason we elect not to execute said bond(s).

Sincerely,



Adam W. DeSanctis
Attorney-in-fact

Western Surety Company

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

Gregory D Juwa, Richard F Caruso, James J Axon, Michael F Carney, Wilder Parks Jr, Michael T Gilbert, Adam W De Sanctis, Christine B Gallagher, Bryan F Juwa, Paul A Patalano, David A Boutiette, Judy Dean, Rebecca Stenquist, Individually

of Woburn, MA, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Senior Vice President and its corporate seal to be hereto affixed on this 1st day of March, 2011.



WESTERN SURETY COMPANY

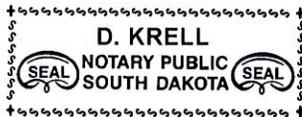
Paul T. Bruflat
Paul T. Bruflat, Senior Vice President

State of South Dakota }
County of Minnehaha } ss

On this 1st day of March, 2011, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Senior Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires

November 30, 2012



D. Krell
D. Krell, Notary Public

CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 22nd day of April, 2011.



WESTERN SURETY COMPANY

L. Nelson
L. Nelson, Assistant Secretary

TABLE OF CONTENTS FOR LAUREL AVENUE BRIDGE DESIGN BUILD PROJECT

RIVIP Bidder Certification Cover Sheet
RI Engineering Registrations for Firm & Key Individuals
Letter of Insurance/Bonding

<i>Section 1 – Letter of Submittal</i>	2
<i>Section 2 – Key Personnel</i>	4
<i>Section 3 – Organizational Chart & Chart Narrative</i>	7
<i>Section 4 – Relevant Work Experience</i>	
4.1 <i>S&R</i>	9
4.2 <i>Garofalo</i>	13
4.3 <i>Lamson</i>	16
4.4 <i>Thielsch</i>	17
4.5 <i>Northstar Hydro</i>	18
4.6 <i>Applied Bio-Systems</i>	19
<i>Section 5 – Design Concept</i>	
5.1 <i>Project Layout</i>	20
5.2 <i>Structural Concept</i>	20
5.3 <i>Spillway</i>	20
5.4 <i>Geotechnical Investigation</i>	20
5.5 <i>River Flow</i>	21
5.6 <i>Utilities</i>	22
5.7 <i>Coordination with Others</i>	22
5.8 <i>Environmental</i>	23
5.9 <i>Preliminary Design Sketch</i>	24
<i>Section 6 – Plan for Design</i>	25
<i>Section 7 – QA/QC Design & Construction</i>	27
<i>Section 8 – Approach to Construct Project</i>	29
<i>Section 9 – Project Controls</i>	
9.1 <i>WBS</i>	31
9.2 <i>Schedule</i>	33
9.3 <i>Schedule Narrative</i>	35
<i>Section 10 – DBE Letters</i>	
10.1 <i>Letters of Intent to Perform as a Subcontractor</i>	
10.2 <i>OJT Statement of Intent</i>	
<i>Section 11 – Resumes</i>	
<i>Section 12 – Required Forms</i>	
• <i>330 Form</i>	
• <i>Debarment Form</i>	
• <i>Lobbying Form</i>	
• <i>Conflict Disclosure Statement</i>	
• <i>Anti-Collusion Certificate</i>	
• <i>Certificate of Insurance</i>	



Address 706 Broadway Street · Lowell, MA 01854

Telephone 978-441-2000 Fax 978-441-2002 Web www.sandrcorp.com

April 22, 2011

Mr. Jerome D. Moynihan, C.P.M., CPPO
Administrator of Purchasing Systems
RI DEPARTMENT OF ADMINISTRATION
Division of Purchases
One Capitol Hill
Providence, RI 02908

**RE: *Qualifications/Technical Proposal Bid #7448315
Design/Build Services for the Replacement
Of the Laurel Avenue Bridge #397, Coventry, RI***

Dear Mr. Moynihan:

S & R Corporation is pleased to submit our proposal for the Laurel Avenue Design Build project in Coventry, Rhode Island. We understand the importance this project has to the RIDOT and the Community. We are committed to helping the RIDOT accomplish the goal of getting the bridge designed, built and the roadway re-opened to traffic in the desired time-frame.

We have comprised a team, consisting of the following firms, that is experienced and committed to provide a quality project that will be in service for years to come. Over the years, S&R has formed a team of professionals whose experience in road and bridge construction has received commendations for aesthetics and excellence.

S & R Corporation will be the Lead Contractor for this project guaranteeing its delivery on time and on budget in accordance with the contract provisions. S&R Corporation has two owners that have equal shares in the business. S&R's officers consist of a President, Treasurer, Vice-President, and Secretary. The business operates a Construction Division and Demolition Division. The divisions share the same home office staff for accounts payable, accounts receivable, contract administration, project administration, marketing and occupational safety. Each Division has an Executive and Division Manager. Construction and demolition projects all have project managers that can be assigned to single or multiple projects and each project has a project superintendent that has a single project responsibility.

Garofalo & Associates, Inc. will be a subcontractor to S&R and the lead engineer for the overall designer of the project. Garofalo is a corporation with a CEO, President and Vice President. Senior Managers oversee the staff which includes engineers, surveyors, inspectors, technicians and administrative staff.

Lamson Engineering will be a subcontractor to S&R and be responsible for the geotechnical engineering and micro pile design. They are a registered MBE/DBE firm in Rhode Island.



Northstar Hydro, Inc. will be a subcontractor to S&R and be responsible for the hydraulic and scour analysis and design. They are a registered MBE/WBE firm in Rhode Island.

Thielsch Engineering will be a subcontractor to S&R and be responsible for the monitoring and instrumentation of the adjacent structures. They will also provide the QA/QC for design construction.

The Principal Contacts are:

- Roger Ploof, President, **S&R**, 706 Broadway Street, Lowell, MA 01854, T (978) 441-2000 F (978) 441-2002, rploof@sandrcorp.com
- Peter Salinder, Vice President, **S&R**, 706 Broadway Street, Lowell, MA 01854, T (978) 441-2000 F (978) 441-2002, psalinder@sandrcorp.com
- Eric Jones, Construction Division Manager, **S&R**, 706 Broadway Street, Lowell, MA 01854, T (978) 441-2000 F (978) 441-2002 ejones@sandrcorp.com
- Steven B. Garofalo, PE, President, **Garofalo & Associates, Inc.**, 85 Corliss Street, Providence, RI 02940 T (401) 273-6000 F (401) 273-1000, sgarofalo@garofaloassociates.com

S&R will be the team member undertaking the financial responsibility for this project and will be providing a 100% performance and payment bond. The bond will be supplied by Western Surety Company through the DeSanctis Insurance Agency. S&R certifies to the best of their ability the contents of the proposal are true and accurate. We also acknowledge receipt of the complete RFP and Addenda 1 - 6.

Sincerely,

S&R Corporation

A handwritten signature in blue ink, appearing to read 'Steven Ploof', is written over the typed name and title. The signature is stylized with a large loop at the end.

Steven Ploof
Treasurer

SECTION 2 – KEY PERSONNEL

The S&R team has been assembled to bring the best managerial and technical staff together to provide RIDOT with the project personnel to provide design and construction services for this Design Build Project.

The following are brief resumes of key personnel that will be assigned to this Project. Full resumes are included in Section 11.

Design-Build Project Manager – Mr. Eric Jones, S&R’s Construction Division Manager, will be responsible for the overall Project design, construction, quality management and contract administration. Mr. Jones has over 15 years of heavy civil construction experience. He has successfully completed numerous bridge projects that involved construction of deep foundations in close proximity to structurally sensitive facilities in addition to projects that have required restoration of historic stone masonry. He will serve as the Project’s lead contact and will be responsible for taking this project from cradle-to-grave, directly managing all facets of the Project’s life cycle. He will focus the team on completing this project on time and provide the necessary resources to achieve the performance, reliability and durability goals that will be established. Additionally, focusing on total quality management, Mr. Jones will engage the designer, the management staff, the workforce and suppliers to produce a product that exceeds the owner’s expectations.

Design Manager – Our Design Manager for this project will be Mr. Jeff Lewis, P.E. of Garofalo & Associates, Inc. Mr. Lewis has over 30 years experience in bridge inspections, design, contract document preparation, construction related services and project management. Over the last six years he has managed or worked on several projects for RIDOT. These projects include the Conant Street Bridge in Pawtucket, the Route 146A Bridge in North Smithfield, three Carolina Bridges in Richmond, the Route 5 bridge over the Branch River in Slatersville, the Warren Ave Maintenance Facility in East Providence, and the new Salt Storage facility in Bellville. Mr. Lewis worked on the Route 3 North design build project in Massachusetts and was responsible for the quality review of plans for over 30 bridges. Mr. Lewis is very familiar with the Laurel Avenue Bridge site in Coventry. He was on site for nearly three months after the floods in 2010 working to stabilize the canal walls and mill buildings from damage caused by the floods. He is aware of which portions of the canal walls and which buildings have been damaged and would need special attention for the pre- and post-construction survey.

Construction Manager – Mr. Mark Wallis, S&R’s Project Manager, will be located at the jobsite and will be responsible for managing the construction process including the Quality Control activities to ensure that the materials and workmanship incorporated into the contract meet the specified requirements. Mr. Wallis has over 30 years of heavy civil construction experience. He has most recently completed a bridge project where a new bridge, founded on deep foundations, was to be constructed over the historic canal system in Lawrence, MA. The abutments

of the new bridge rested in line with the existing historic dry laid masonry canal walls. Stones from portions of the canal walls were removed and stored in order to complete the new abutments. A carefully engineered plan was implemented to install the deep foundations while monitoring the integrity of the canal walls. The face of the abutments required re-using the existing stones in order to replicate the look of the existing walls. Mr. Wallis worked closely with the designers and city officials to document procedures, processes and materials that were incorporated into the Project met all the requirements specified within the contract.

Geotechnical Engineer – Mr. Kin Lam, PE from Lamson Engineering Corporation will be the Geotechnical Engineer. Mr. Lam has over 25 years of experience in a wide range of geotechnical, structural and civil engineering projects. He has managed and designed many projects in Rhode Island and Massachusetts from preliminary design phase, final design and through construction. His work has included the preparation of geotechnical reports, construction plans, specifications and estimates. Mr. Lam has worked on two design build projects for the MassDOT.

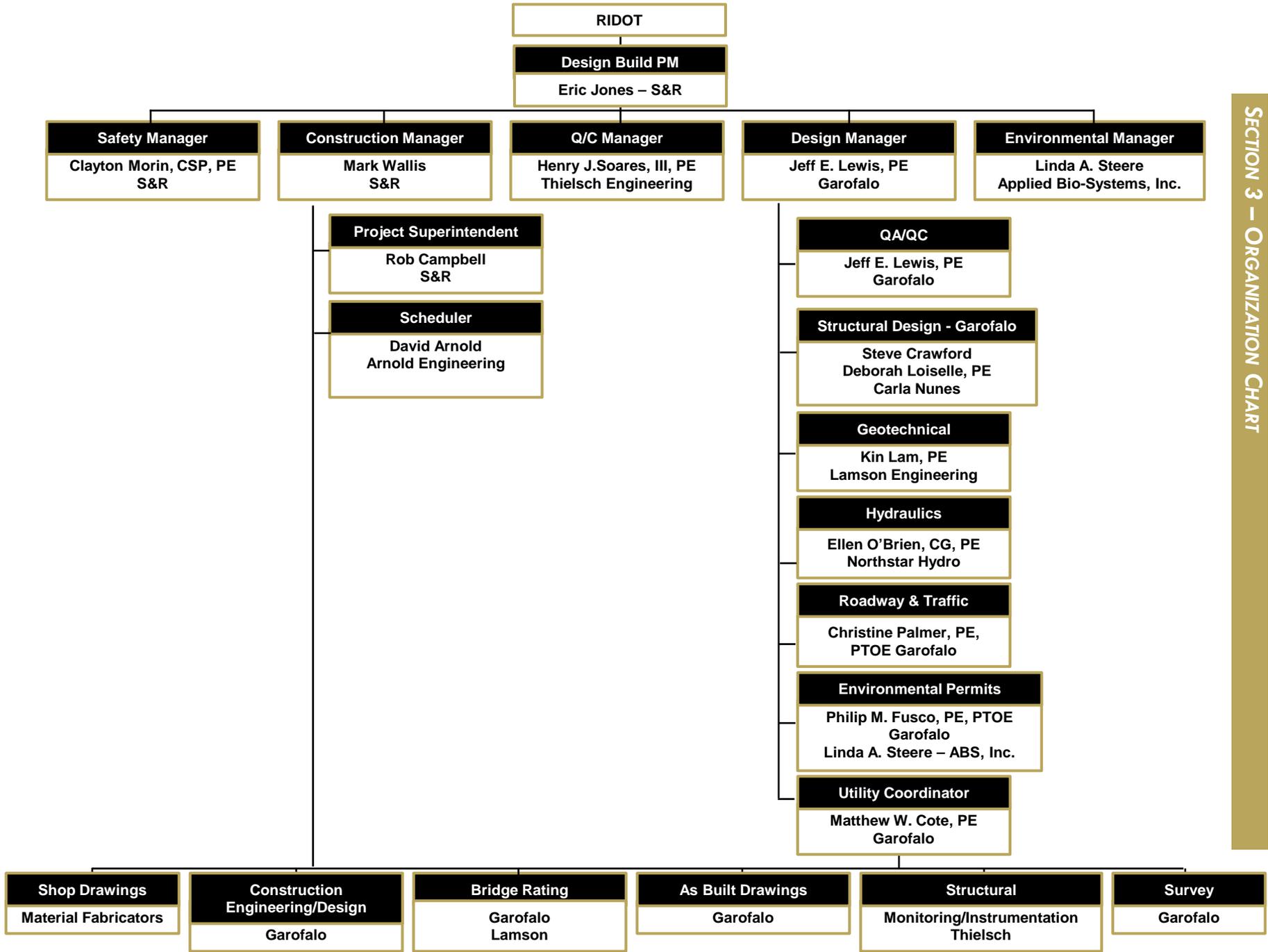
Quality Control Manager – Henry J. Soares, III, PE from Thielsch Engineering will be the Quality Control Manager located at the jobsite for the duration of construction operations on this Project. Thielsch will be responsible for monitoring the quality control program. Thielsch has provided quality engineering services to clients throughout New England. Thielsch strives to exceed the expectations of the owner and works hard to build solid, long lasting business relationships. Thielsch guarantees a total commitment to completing the project quickly, accurately and economically. Mr. Soares will also manage the QA/QC for the design components.

Safety Manager – Clayton Morin, P.E., S&R's Health and Safety Manager, will be responsible for developing a Site Specific Health and Safety Plan. Clayton has over 30 years of health and safety experience on large construction projects. Clayton implements and manages the health and safety policies and procedures on all of S&R's projects. He is a Certified Safety Professional in Engineering Aspects and he is a member of the American Society of Safety Engineers. He also is a member of the Eastern Massachusetts OSHA Alliance.

Scheduler – Mr. David Arnold from Arnold Engineering Company will be the Scheduler for this project. David Arnold/Arnold Engineering Company has been involved with thousands of individual projects dealing with scheduling and working directly for contractors as well as owners. The design build aspect of any given project is quite different than using a set of plans and specifications to begin with. A design build coordination effort takes into account the time frame required to develop a design allowing enough time to actually construct the bridge/road that needs to be built once the design has completed. It is quite important to be aware with the design criteria and the amount of resource allocation necessary to complete this design allowing the contractor enough time to actually perform the

construction. Arnold's vast experience in performing these design build projects is a major factor in completing the design as well as constructing on time and within the budget allocated.

Environmental Manager – Linda A. Steere from Applied Bio-Systems, Inc. will be the Environmental Manager. Ms. Steere is a registered soil scientist and professional wetland scientist. Ms Steere has over 28 years of experience as an environmental consultant and has extensive knowledge with wetland permitting processes and regulatory guidelines. She is a graduate of the University of Rhode Island with a BS in Zoology and an MS in Wildlife Management. She maintains certifications with the RI Association of Wetland Scientists and The Society of Soil Scientists of Southern New England. With her previous work experience at the Rhode Island Coastal Resources Management Council (CRMC), she reviewed and commented on the development of CRMC regulatory guidelines as well as reviewed and assessed permit applications. She also served as an expert biological witness for the State of Rhode Island.



ORGANIZATIONAL CHART NARRATIVE

The Design-Build Project Manager, Eric Jones, will have complete authority to act for the Project Team. Mr. Jones will interface and communicate with the Design Manager, the Construction Manager, the QC Manager, the Safety Manager, and the Environmental Manager. In addition, RIDOT will have direct access to Mr. Jones to resolve any project concerns or issues.

The Design Manager will report directly to Mr. Jones and will manage the engineering activities in accordance with the Project schedule. The Design Manager will also coordinate with the Construction Manager and Environmental Manager on activities that affect design. The Design Manager will work with the Construction Manager on items that pertain to both engineering and construction, these items are shown along the bottom of the Organizational Chart.

The Construction Manager will report directly to Mr. Jones and will manage the construction activities in accordance with the Project schedule. Mr. Jones will work closely with the Construction Manager on dividing the construction activities into a logical and sequential list of activities. The Construction Manager will coordinate with the other managers as necessary during construction.

The QC Manager will report directly to Mr. Jones and will be involved in the selection of materials and processes that will ensure compliance with the Contract Specifications. The QC Manager will also be responsible to keep track of all necessary documentation and have it available to present to RIDOT. The QC Manager and Construction Manager will work closely together to make sure that the availability of the required material will follow the dates required by the Project schedule. The QC Manager will also work directly with the

designers to provide QA/QC reviews during the design phase.

The Safety Manager will report directly to Mr. Jones and will prepare and monitor the Site Health and Safety Plan. The Safety Manager has the responsibility of safety compliance and has the authority to stop work, if necessary, to correct field related issues. The Safety Manager and the Construction Manager will work closely together to make sure that each operation has been thoroughly considered and the specific activity hazard analyses have been accounted for.

The Environmental Manager will report directly to Mr. Jones and will be responsible for compliance with all State and Federal environmental regulations, etc. The Environmental Manager will work closely with the Design Manager and Construction Manager to ensure that the elements of design and construction complies with the applicable regulations.

Mr. Jones will chair regular meetings and constructability reviews with the design team. Further, Mr. Jones will establish open and clear lines of communication to ensure that the flow of information from design to construction remains seamless.

4.1 RELEVANT WORK EXPERIENCE (S&R)

S&R, established in 1987, is a comprehensive, single-source contractor specializing in all levels of construction, environmental and demolition projects in both the public and private sectors. We confidently rely on our diverse capabilities, professionalism, innovative philosophy and sense of integrity to ensure a smooth process from conception to completion of projects that make their mark on the industry. **S&R** has an exceptional internal team of managers and crafts people, as well as a trusted network of designers, subcontractors and vendors that are leaders in our industry. The business operates a

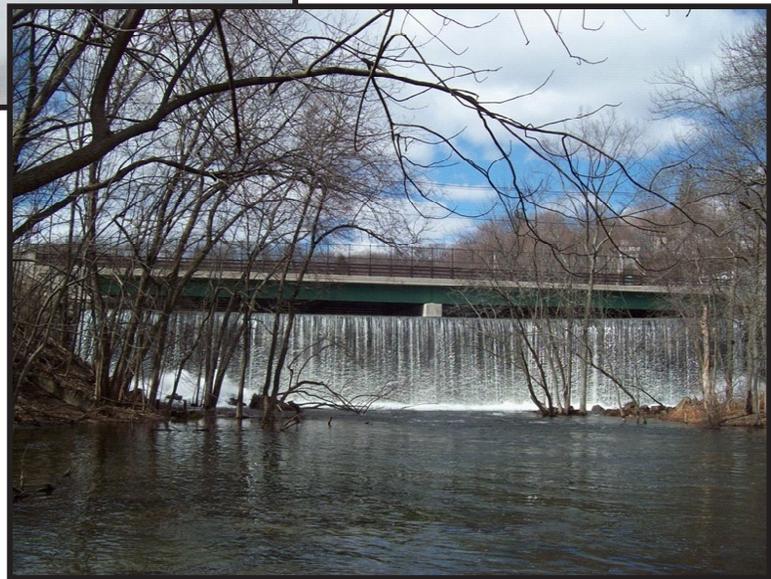
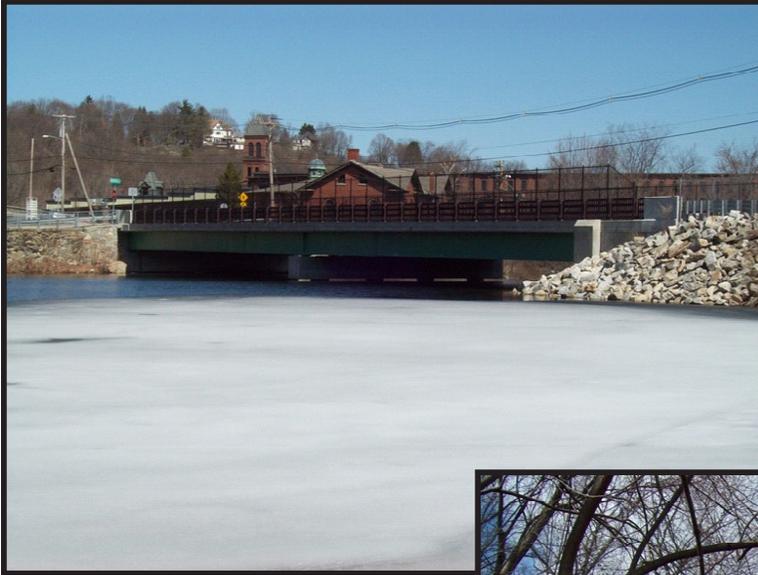
Construction Division and a Demolition Division, with the Construction Division work being primarily in the transportation sector, building highways and bridges for public authorities.

S&R targets projects that best suit the experience and skill sets of all of our available resources, our staff size varies between 50 and 80 depending upon workload and season. This, together with our proactive approach to each task we perform, allows us to maximize the quality and value inherently realized as part of any project which we perform.



***BRIDGE OVER THE NORTH CANAL
Lawrence, MA***

The Bridge over the North Canal was a \$1.2M project for the City of Lawrence, MA. The scope of the project was the construction of a new bridge over the North Canal to connect Canal Street and Island Street. The substructure was cast in place concrete supported by steel H piles. The superstructure was a steel truss frame with a heavy gauge steel deck and bituminous concrete wearing surface. The work required the removal of the existing historic stone masonry canal walls and excavation behind the canal walls to build the new substructure. Interlocking steel sheeting was installed to control the water in the work areas. Foundation piles were driven with a hydraulic impact hammer to minimize the impact on the structurally sensitive canal walls. The new cast in place concrete abutments were constructed to allow for a stone masonry veneer to be placed on the face of the abutments. The original stone masonry canal wall material was stored on site during removal and then custom cut to use as a veneer on the new concrete abutments. Other work included guardrail, fence, electrical, striping and traffic signals. The project was completed in December, 2010.



ROUTE 62 & 70 OVER THE NASHUA RIVER
Massachusetts Department of Transportation

The replacement of the bridge carrying Route 62 & 70 over the Nashua River in Clinton, Massachusetts was a \$5.6M project for the MassDOT. The scope of the project was the replacement of the existing bridge with a new two span structure. The substructure is a cast in place concrete foundation supported by deep foundation, large diameter drilled shafts. The superstructure is a steel plate girder framed structure with a cast in place concrete bridge deck. The project required diversion of the Nashua River to construct the new substructure components in two phases. Control of the water was accomplished with interlocking steel sheet piling as well as sandbag cofferdams. The existing historic stone walls were systematically removed to permit the construction of the new abutments, once the new abutments were completed the stone walls were reconstructed to blend into the new construction. The new bridge was constructed less than ten feet upstream of the Lancaster Mill Pond Dam on the Nashua River. The dam was an open joint stone masonry structure approximately twenty feet tall and was structurally sensitive to the construction of the deep foundation shafts and sheet pile driving, being performed just upstream. The vibration generated by construction activities was carefully monitored and the dam was inspected daily by S&R's subconsultant on the project. The project was completed in July 2008.



ROUTE 1A BRIDGE OVER THE PARKER RIVER
Massachusetts Department of Transportation

The Route 1A bridge over the Parker River in Newbury, MA, was a \$13.6M bridge replacement project for the Massachusetts Department of Transportation. The scope of the project was a complete demolition and replacement of the existing bridge. The substructure was cast in place concrete supported by deep foundation large diameter drilled shafts. The four existing stone masonry granite piers were demolished using explosives in dry conditions within interlocking steel sheet pile cofferdams. The Parker River's sensitive marine life was of paramount importance during the demolition process. Turbidity curtains, vibration monitoring and the services of a marine biologist were necessary measures to monitor and control the effects of the explosive demolition process. The superstructure was a NEBT 1800 frame with a cast in place concrete bridge deck. Other work included full depth reconstruction of the roadway, drainage, retaining walls and a temporary utility bridge. The project was completed in April, 2009.



GROTON STREET BRIDGE OVER THE NASHUA RIVER
Massachusetts Department of Transportation

The Groton Street Bridge over the Nashua River was an \$8.4M bridge replacement project. The scope of the project was the replacement of the existing bridge with a new three span structure. The substructure was a pile supported cast in place concrete foundation with a granite stone veneer. The granite stone veneer was selected from samples supplied by S&R to match the original stone masonry substructure which was built in 1848. The superstructure of the approach spans was steel framed with a cast in place concrete deck. The main span superstructure was a timber framed covered structure, made of a combination of glue laminated members and sawn lumber. The timber superstructure was also built to match the original superstructure which was built in 1848. Water diversion structures were installed to construct the two piers in the Nashua River. Interlocking steel sheet pile and sand bags were used to control the water. The project was completed in October, 2009.

4.2 RELEVANT WORK EXPERIENCE (GAROFALO)

Throughout its evolution, **Garofalo & Associates, Inc.** has fostered a corporate environment that strives for excellence. The continual expansion of staff capabilities and services since the firm's founding in 1974, has resulted in an engineering and survey firm that engenders a multi-disciplined project approach backed by extensive experience.

The **Garofalo** Staff maintains an experienced team of registered professionals serving as structural engineers, civil engineers, environmental engineers, technical specialists, planners, and surveyors. Possessing this large complement of problem-solving technicians assures a specialized but cost-effective effort for both public and private sector projects. **Garofalo** has provided RIDOT with bridge design services for over 20 years. Our work has ranged from complete bridge replacements to emergency repairs for bridge parapets.

Our staff has a wide variety of experience in bridge design, evaluation, inspection, rating and contract document preparation.

The projects listed below represent projects with the various types of design components that are expected on the Laurel Avenue project. These include bridges over water, bridges with deep foundations, bridges designed by the LRFD code, bridges close to spillways, utility coordination and experience with design build projects.

Garofalo also has extensive knowledge of the project site and mill buildings and working relationships with the mill owners and the representatives of Department of Agriculture (USDA). This knowledge was gained through working with the mill owners and USDA and Natural Resources Conservation Service during the flood of 2010 to stabilize damage to the mills.

CONANT STREET RAILROAD BRIDGE – NUMBER 915

**Rhode Island Department of Transportation
Pawtucket, Rhode Island**

This project consists of the complete replacement of an existing two-span through-girder structure that spans over P&WRR tracks, AMTRAK's electrified Northeast Corridor, and the Freight Rail Improvement Program (FRIP). **Garofalo** performed the final design for the structure based on the approved recommendations from the type study report. The replacement structure will consist of a pre-fabricated single-span steel bow truss structure that will be erected over the active rail lines. The northerly abutment was supported on a pile foundation.



UNION VILLAGE RAILROAD BRIDGE – NUMBER 107 **Rhode Island Department of Transportation** **North Smithfield, Rhode Island**

This project involves the inspection and report preparation for the superstructure replacement of a reinforced concrete slab bridge designed by the LRFD code. As part of our investigation, **Garofalo** researched accident data for the site and recommended alignment upgrades as well as widening of the existing structure to address safety concerns in addition to the structural deficiencies of the bridge. The widened portion of the bridge was placed on pile foundations.

**SLATERSVILLE STONE ARCH BRIDGE
REHABILITATION – NUMBER 273**

*Rhode Island Department of Transportation
North Smithfield, Rhode Island*

The existing bridge is an historic structure that required a 106 Case Study before any repairs could be approved. The structure has insufficient width for the current traffic needs. The 106 report explored widening the bridge without disturbing the qualities that have placed it on the National Register. The widening was designed in accordance with LRFD standards and included a new pier supported on pile foundations.



ROBIN HILL STREET OVER ASSABET RIVER
*Massachusetts Department of Transportation
Marlborough, Massachusetts*

As part of the State’s Footprint Bridge Program, *Garofalo* provided the preliminary and final design services to replace the existing bridge. The new bridge is a 71 foot long single span prestressed concrete spread box beam bridge with a reinforced concrete slab. It has reinforced concrete abutments supported by drilled shafts. Utilities cross the bridge and are supported by the superstructure.

BOUNDARY STREET OVER ASSABET RIVER
*Massachusetts Department of Transportation
Marlborough, Massachusetts*

As part of the State’s Footprint Bridge Program, *Garofalo* provided the preliminary and final design services to replace the existing bridge. The new bridge is a 59 foot long single span prestressed concrete spread box beam bridge with a reinforced concrete slab. It has reinforced concrete abutments supported by drilled shafts. Utilities cross the bridge and are supported by the superstructure.



ALLEN STREET BR. N-20-002
*Massachusetts Department of Transportation
Northborough, MA*

Garofalo designed a bridge superstructure replacement with a single span 59 foot long prestressed concrete box beam superstructure. The project modified and reused the existing abutments and required design of new utility supports on the fascia of the bridge. A detour was implemented and the bridge was closed during construction. The project included construction phase services with a post construction bridge rating.

ROUTE 122, BR B-02-005

***Massachusetts Department of Transportation
Barre, MA***

Garofalo designed a superstructure replacement using the LRFD codes for a single span steel beam bridge with a span of 57 feet. Concrete repairs were specified for the substructure. The bridge was to be constructed in two stages with traffic management for Route 122. A temporary traffic signal was used during one of the stages for alternating one way traffic. Construction phase services are included in the project.



RIDOT LINCOLN AVENUE MAINTENANCE FACILITY
***Rhode Island Department of Transportation & Narragansett Bay
Commission***
Warwick, Rhode Island

In order to meet the one-year design and construction schedule, this project was implemented as a design-build contract with E.W. Burman Construction and David Presbrey Architects. This project consisted of structural and site design for a 72,000 square foot municipal office and maintenance garage for the Rhode Island Department of Transportation (RIDOT). The project was implemented and partially funded by the Narragansett Bay Commission as part of the relocation of the existing RIDOT Maintenance Facility in Providence under their CSO program.

4.3 RELEVANT WORK EXPERIENCE (LAMSON)

Lamson Engineering Corporation has worked in the geotechnical areas on the following projects. Development of the boring program, monitoring of the field boring work, and preparation of the geotechnical reports are part of the responsibilities.

RIAC Reconstruction Runway 16-34, Newport Airport, Contract #22453, responsible for the boring program, testing and geotechnical report preparation for this 2009 airport runway reconstruction project (via McFarland Johnson).

Amtrak Wellington Signal Bridge of Warwick Intermodal Train Station, Cranston, RI, responsible for the boring program, foundation analysis & geotechnical report for the proposed drilled shaft foundation (via Jacobs).

MassDOT Replacement Route 10 Bridge No. E-05-006 over Manhan River, Easthamton, Mass., responsible for the geotechnical design and report preparation including the recommendation of the drilled micro-pile foundation for this single span bridge replacement project (via Diversified Technology Consultants).

MassDOT Design-Build CSX Bridge Bundle Project, responsible for shallow foundation analysis and geotechnical report preparation for Rt. 148 Brookfield Bridge No. B-26-003, Rt. 31 Charlton Bridge No. C-06-014, Rt. 49 Spencer Bridge No. S-23-024, and Rt. 67 West Brookfield Bridge No. W-19-015 (via Fay, Spofford, & Thorndike).

MassDOT Design-Build Lowell Bridge Bundle Project, I-495 northbound and southbound Bridges over Concord River, B&M RR & Woburn Street in Lowell, responsible for the integral and MSE abutments utilizing steel H-Piles and geogrid materials for these 6 bridges. This is the first MDOT project using such substructure type. (via AECOM).

4.4 RELEVANT WORK EXPERIENCE (THIELSCH)

Thielsch Engineering, Inc. (TEI) has extensive experience in many facets of engineering, testing, inspections and construction management. Our services include assisting various municipalities, cities, towns and plant owners repair, design, build and expand their operations including project management and Quality Assurance/Quality Controls. **TEI** has successfully completed more than three hundred design and/or construction projects. Thielsch has inspected roadways, bridges, pieces of equipment, processes and thoroughly reviewed the physical assets of facilities.

Our Construction Testing department was established in 1989 and has been performing inspection and testing services throughout Rhode Island, Massachusetts and Connecticut since

then. We offer both qualified inspectors and a RIDOT approved testing laboratory in Cranston. Additionally, we have worked with the RIDOT on numerous bridge evaluations and/or failures.

TEI performed a pre- and post-condition assessment on approximately five properties associated with the I-195 Bridge Construction. These inspections included video and photo documentation of interior and exterior deficiencies and a report summarizing the findings.

TEI also assisted Garofalo & Associates, Inc. In performing condition assessments of various facilities near the Laurel Avenue Bridge during the flooding in 2010, including the Mills near this project that are pictured below.



4.5 RELEVANT WORK EXPERIENCE (NORTHSTAR HYDRO)

Northstar Hydro, Inc.'s goal is a sole-proprietorship founded in 1994 by Ellen O'Brien, specializing in hydrologic and hydraulic modeling, as well as in design assistance for scour protection.

Northstar Hydro has provided specialized expertise to engineers and planners in the field of hydrology and hydraulics. Ms. O'Brien has worked on numerous Flood Insurance Studies in Rhode Island and throughout New England, including coastal locations. She has also prepared numerous Flood map revision applications. Northstar Hydro has provided hydrologic, hydraulic, and scour design services for bridge replacement projects in Maine, Massachusetts, Rhode Island and elsewhere, as well as numerous scour evaluations and inspections for existing bridges. Modeling capabilities include 1- and 2-dimensional flow

modeling, as well as GIS based modeling support. Recent projects involving dam removal, reconstruction or replacement include the Dead River Dam in Leeds, Maine, the Fort Halifax Dam in Winslow, Maine, Sebasticook Lake in Newport, Maine and others.

Professional services include: hydrologic systems analysis, coastal hydrology/hydraulics, riverine hydraulics, scour evaluations, surface water hydrology, ground water hydrology, stormwater management, erosion control, roadway and railroad drainage. Computer modeling experience includes two dimensional flow analysis using SMS – RMA2, hydrology models such as HEC-HMS, TR20, TR55, Hydrocad, riverine hydraulics – HECRAS, stormwater modeling with Hydraflow and GIS applications in water resources.

SCOUR EVALUATIONS AND POA DEVELOPMENT, MAINE BRIDGES.

Northstar Hydro served as a sub-consultant to T.Y. Lin International for field and office evaluation of numerous Maine bridges that were rated Scour Critical by Maine DOT. The project included Phase I field inspection and evaluation, review of scour rating, Phase II hydraulic and scour analysis, and Plan of Action development. This project was completed in December of 2010. The photo shows a section measurement near a typical bridge on composite abutments with some foundation slumping and potential failure.



HYDRAULIC AND SCOUR ANALYSIS, CUMBERLAND MILLS BRIDGES, WESTBROOK, ME.

Northstar Hydro Inc. served as subconsultant to Stantec for hydrologic, hydraulic and scour analysis for redesign and reconstruction of the twin bridges at Westbrook over the Presumpscot River. These bridges sit just upstream of the Sappi Mill dams. The dams and bridges split river flow and have experienced flooding in the past. The redesign work included evaluation of past flooding and hydraulic modeling of complex flow through the twin bridges, around an island and over two spillways to split channels below and through the Sappi mill buildings. In the air photo that follows, flow is from the bottom of the photo to the top. The twin spans are at the bottom of the photo and the two spillways are split by the mill buildings. This project was completed in January of 2011.

4.6 RELEVANT WORK EXPERIENCE (APPLIED BIO-SYSTEMS, INC.)

We have considerable experience has included structural and/or geotechnical on Bridge, commercial, industrial, engineering services, as well as construction institutional and municipal phase services. The following is a short but projects. Our typical work on these projects representative list of recent projects:

WETLAND REPLACEMENT DESIGN FOR THE JAMESTOWN BRIDGE PROJECT NORTH KINGSTOWN, RHODE ISLAND

Wetland replacement design for mitigation area north of Route 138, North Kingstown, RI. Project included wetland delineation, State/Local Permit Filing, Wetland Mitigation Design, Wildlife Habitat Assessment and Contract Monitoring.

MIDDLEBRIDGE REPLACEMENT PROJECT NARRAGANSETT/SOUTH KINGSTOWN, RHODE ISLAND.

This project included wetland delineation, State/Local permit filing and wildlife habitat assessment.

ROUTE 138 INTERCHANGE PROJECT NORTH KINGSTOWN, RHODE ISLAND

Wetland delineation, replication, permitting and construction monitoring.

APPANOAG CIRCULATOR STUDY WETLAND DELINEATION AND ASSESSMENT/ WILDLIFE ASSESSMENT/WATER QUALITY STUDY

This project entailed wetland delineation, State/Local permit filing, and wildlife habitat assessment.

ROADWAY REHABILITATION PROJECT NARRAGANSETT, RHODE ISLAND

Wetland delineation and assessment for roadway rehabilitation project on Sand Hill Cove, Narragansett, RI.

5.1 Project Layout – The new bridge and roadway approaches will be constructed to blend into the existing site features as closely as possible. Since the new bridge will be approximately four feet wider than the previous bridge as requested in the RFP, the approach roadways will transition from the 32.15 foot width at the bridge to the 28 foot existing roadway width on the approaches. The new sidewalks on the bridge will connect to existing sidewalks on the approaches. To accommodate the deeper superstructure of the bridge necessary due to the increase in span length and maintaining the existing hydraulic opening, the roadway profile will need to be increased by approximately seven inches across the bridge. The drives to the mill buildings will need to be adjusted to accommodate this increase.

5.2 Structural Concept – The new bridge will be a single span rolled steel beam bridge with a span of approximately 87 feet. A 7.5 inch thick concrete deck with spray applied waterproofing and a 3 inch thick bituminous overlay will be constructed on top of the beams. The bridge will have a 4 foot wide sidewalk on each side of the bridge and a standard RIDOT parapet and railing similar to what was on the existing bridge. The new bridge will accommodate a 4 inch gas line supported between the beams. Provisions for new 12 and 16 inch water lines and an 8 inch sewer line will be included.

The substructure will be semi-integral abutments supported on two rows of 10 inch diameter mini piles. The piles will be drilled and extend down to a depth of approximately 50 feet below the abutment. The concrete caps for the piles will be located immediately behind the new spillway walls, but will be independent from them. The canal walls currently serve as wing walls on the west side of the bridge as well as on the northeast corner and will continue to do so for the new design. At the

southeast corner of the bridge, a return/wing wall will be constructed similar to the way the previous bridge was constructed.

5.3 New Spillway – The new spillway will be a reinforced concrete U-shaped structure with the walls integral with the slab. The walls will be faced with stones from the existing north abutment, reclaimed stones from the site or from new stones conditioned to resemble the existing stones. It is not anticipated enough of the existing stones can be reclaimed to face the new walls. Reuse of the existing stones will require thicker spillway walls due to the depth of the existing stones and to have enough concrete to sufficiently anchor the existing stones and withstand the earth and hydrostatic pressures. Samples of existing stones will be delivered to the stone supplier so he can replicate the existing stones.

The RFP stipulates the use of energy dissipating features for the splash pad. Features we anticipate utilizing as part of the splash pad include baffles, chute blocks, an end sill or a combination of these features.

5.4 Geotechnical Investigation – Based on the preliminary boring information, the preliminary proposed loads and the project scope, micropile foundation is suitable to be used for this project. The proposed foundation will be designed based on the LRFD design approach. As a result of the preliminary analyses, the proposed bridge will be supported by the proposed micropile foundation consisting of 2 rows of 10 inch diameter piles extending approximately 50 feet below bottom of the abutment without the need for rock socket. The piles are to be reinforced with one (1) reinforcing bar and cased with a steel casing for the top portion of the pile to provide for lateral rigidity of the pile. This will be confirmed by drilling new borings on each side of the river.

5.5 Managing River Flow –

1. Existing Condition: The Anthony Mill Pond Dam has two existing visible means of potentially diverting water flow from the pond without having the water flow over the Dam's spillway. The first of these means is five, 6' x 9', gates that at one time regulated water flow through the adjacent mill complex and discharged the water downstream of the dam. These gates are in disrepair and appear to be inoperable. Additionally, water is "ponding" on the downstream side of the gates. The "ponding" condition is apparently due to another gate downstream or possibly a permanent "plug" preventing water from flowing through the mill complex. The second means of diversion is a 48" diameter cast iron pipe that passes through the dam structure, with a gate and intake on the pond side of the dam and a discharge on the downstream side of the dam. The mechanism to operate the gate is intact and the gate is currently functioning in the closed position.

2. Inspection: The 48" diameter cast iron "drain down" pipe appears to be in acceptable condition for use as a means of water diversion either in its present state or with some minor rehabilitation. To determine the condition of the gate, a temporary plug or cap shall be installed on the discharge end of the pipe. The operating mechanism will be sufficiently lubricated to test its operating capacity. The operation of the gate will be tested with the use of a construction dive team, they will observe the underwater conditions and assist in clearing the gate of sediment build up, as well as assist in releasing any "set" that might have developed over time, and may resist initial movement of the gate.

3. Rehabilitation: The results of the inspection shall be used to determine the scope of the rehabilitation of the gate and the operating mechanism – make the gate

operable and able to function in the open and closed positions. The rehabilitation of the gate shall be completed and the plug or cap on the discharge end of the pipe shall be removed.

4. Water Diversion System: The drain pipe discharge shall be extended to a point not more than five feet downstream of the layout of the new splash pad. The pipe shall be extended by using a temporary steel pipe of the same diameter connected to the existing cast iron pipe by means of a transition coupling. The steel pipe shall be braced and supported to project the existing cast iron pipe slope through the temporary steel pipe. A temporary stone splash pad may be needed at the discharge end. It is anticipated that the drain pipe may be insufficient to divert all the water during some weather events, therefore a backup diversion shall be in place for such a condition. The backup system shall be phased to accommodate the two phased construction of the new splash pad. The backup system shall be in place at all times and consist of a sandbag wall extending not less than 24" above the crest of the dam. The sandbag wall shall follow the crest to approximately the middle of the dam, at which point it shall be placed down the spillway, parallel to the water flow to a point approximately 5' downstream of the new splash pad layout. This will channelize the water over the crest of the dam and through the spillway where construction is not in process. The water diversion shall begin by opening the gate for the drain pipe sufficiently to lower the pond level to approximately 6" to 12" below the crest of the dam. The water level in the pond shall be maintained so that the water level never drops lower than 12" below the crest of the dam. Temporary sandbags, steel pipe, bracing and supports shall be removed when the water diversion is no longer needed. Work performed to rehabilitate the gate shall be left in place for future use.

5.6 Utilities – Currently there are overhead utility lines that cross the river along the west side of the roadway. The only underground utility that crossed the bridge was a gas line. The portion of the line that crossed the bridge has been removed and the remaining sections have been capped on both approach roadways. This line will have little effect in the construction of the bridge, but will be replaced and located under the new bridge. An underground storm water pipe is located on the south approach roadway, but will have little effect on the new construction as it is reconstructed.

The overhead utilities consist of telephone, electric, cable and a fire alarm communications line. They are supported by timber utility poles. The pole on the north side of the bridge location is approximately 58 feet from the front face of the existing canal wall and 7 feet from the edge of the roadway. The pole on the south side of the bridge location is approximately 28 feet from the front face of the existing canal wall and 5 feet from the edge of the roadway. Thus the lines are slightly skewed away from the roadway and are not parallel with the roadway.

We do not intend to relocate any of the poles or overhead utilities. Even though the lines were roughly located along the west fascia of the old bridge and the new bridge is to be widened by four feet, we feel the new bridge can be constructed without relocating the overhead lines or their supporting poles. One of the ways we will be able to construct the new bridge without relocating the overhead lines or poles is by slightly shifting the location of the bridge to the east by approximately three feet. This will allow the west fascia of the new bridge to remain east of the overhead lines. This will also keep the bridge within the new layout the RIDOT has obtained. This will induce a slight horizontal curve on the approach roadways to tie back to the edges of the existing roadway, but still stay within the existing roadway layout.

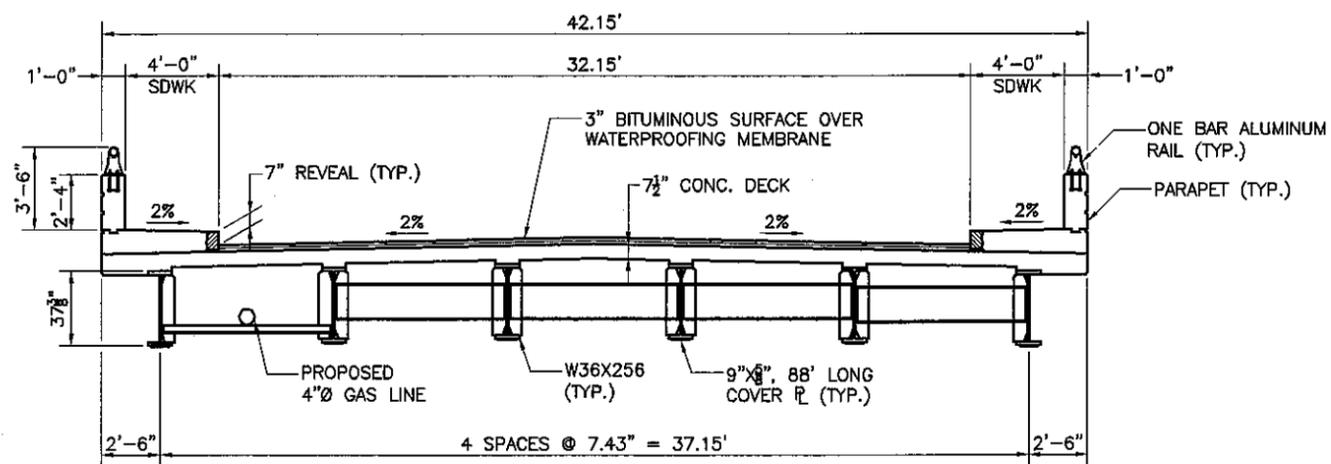
By shifting the bridge slightly to the east and de-energizing the overhead lines, we will have enough room to set the beams. The new westerly most beam can be placed on the new abutment seats away from the overhead lines and moved horizontally to the west to its final location with smaller equipment that have booms that will be at lower levels than the overhead lines.

The nearest utility pole on the north side of the bridge is far enough away from the new bridge that it will not affect the construction. The most problematic pole is the one on the south side of the bridge. However, with the slight alignment shift to the east and providing earth support around the pole, it can be left in place during construction. This pole will be approximately 7 feet west and 10 feet south of the new abutment. In addition the new abutment pile cap can be designed to extend beyond the piles more than they typically would so that more room can be created between the piles and this pole, further enabling the ability to place the piles without the need to relocated the pole.

5.7 Agency Coordination – The D/B team does not intend to alter the design from what was intended in obtaining a “no adverse effect” determination, however, it is anticipated there will be coordination with RIDOT’s Cultural Resources Unit. We do not anticipate enough of the stones from the original south abutment will be able to be retrieved so that both of the spillway walls can be faced with the original stones. Therefore we anticipate the need to obtain additional stones to supplement the original stones. Prior to the use of the new stones, the D/B team would construct a mock wall with the new stones so the agencies could view and approve the use of the new stones. As per the Questions and Answers no public meeting is required, thus no coordination with the public is anticipated.

5.8 Environmental Coordination – As part of the preparation for the Freshwater Wetland submission for this project, a site inspection and wetland delineation of the project area will occur. Upon completion of the 30% engineering design plans, we will prepare the appropriate application package for submission to the RIDEM-Division of Water Resources, Permitting. It is expected that an informal meeting with RIDEM will be scheduled to discuss the project and wetland requirements prior to the application submission. At this time, the project would appear to be a Preliminary Determination Application. This includes PPG review with the US Army Corps of Engineers.

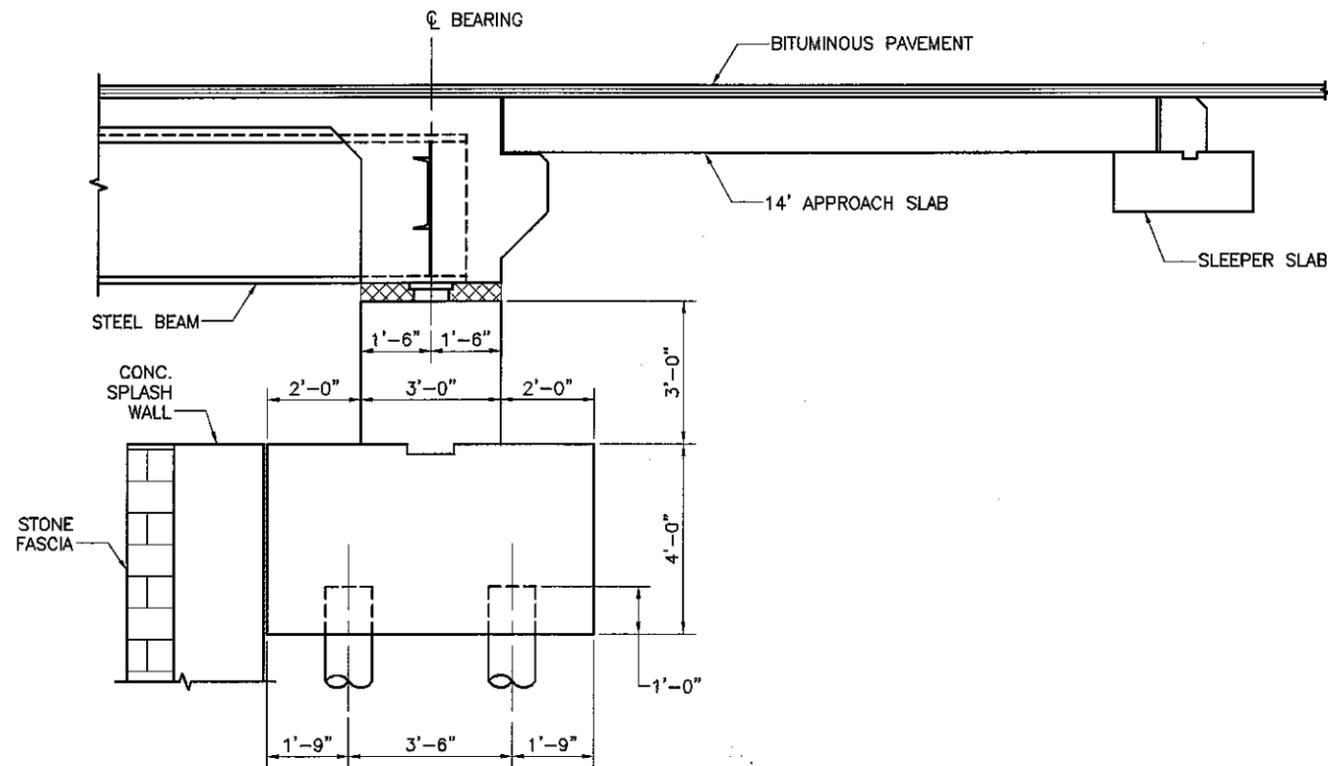
In addition, preparation of a Water Quality Certification application and a Notice of Intent (NOI) under the RIPDES General Permit for disturbance of areas less than 5 acres other than the existing pavement will be completed, as required. These can all be submitted concurrently to RIDEM for approval.



NOTE: PROVISIONS FOR 8" DIA. SEWER, 12" & 16" DIA. WATER LINES TO BE PROVIDED.

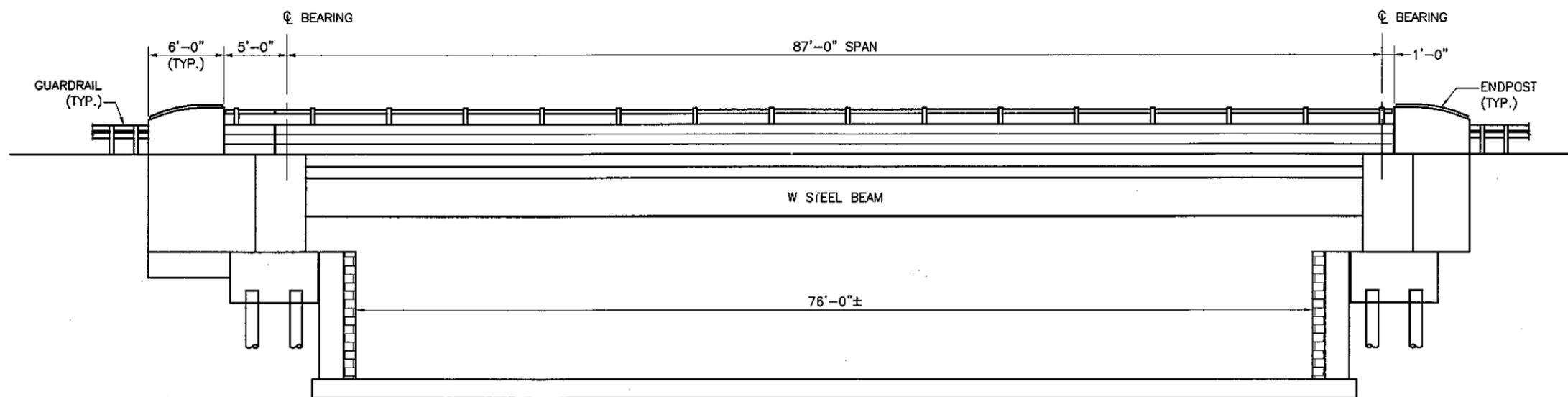
TYPICAL BRIDGE SECTION

SCALE: $\frac{1}{8}'' = 1'-0''$



TYPICAL SEMI INTEGRAL ABUTMENT SECTION

SCALE: $\frac{1}{4}'' = 1'-0''$



EAST ELEVATION

SCALE: $\frac{3}{32}'' = 1'-0''$

REPLACEMENT OF LAUREL AVE
BRIDGE NO. 397

COVENTRY, RHODE ISLAND

PRELIMINARY DESIGN SKETCH

DATE: APRIL 22, 2011

SCALE: AS NOTED

Our proposed plan for designing the project was initiated during the development of this proposal with the initial development of the type of superstructure to be constructed. The Contractor and the Lead Designer have coordinated the construction of this project based on the Contractor's strengths such as personnel, equipment and experience. This coordination will continue throughout the design phase in order to incorporate design features and the Contractor's means and methods.

The Design Manager will oversee all aspects of design and ensure the overall project design is in conformance with the criteria and standards set forth in the RFP. The organization chart in Section 3 illustrates the design components the Design Manager will oversee. Prior to beginning the design, the Design Manager will meet with the Contractor's Project Manager and Construction Manager to discuss the design process, the construction process and the schedule. The Design Manager will then meet initially with the entire design team to go over the schedule, time line and design tasks so everyone is on the same page. At this meeting the QA, QC process for the design phase will be explained. Follow up meetings with the lead engineers for each discipline of the design team will be held regularly.

The Design Manager will have the overall responsibility for the design, however, lead engineers for each discipline will be able to interact with each other so coordination between the disciplines can be done in a timely manner and so the Design Manager does not become a bottle neck for the project. Intermittently during the design process and prior to each of the design submittals the Design Manager or designee will review the work product for each of the disciplines as part of the quality control and assurance for the project.

Coordination with the utilities will need to be performed at the beginning of the design so issues regarding relocation, getting details from the utility companies to be included in the plans and providing openings in the abutments can be resolved. Due to the number of utilities at this site, the coordination effort will be significant. The design of the support of excavation will need to be included in the design submittals and performed along with the foundation design since it will be one of the early construction items.

Interface of Design and Construction Personnel – Unlike a typical design bid build project, the design for this design/build project will be partially based on the means and methods of construction by the individual Contractor. Therefore, it is imperative that communication between the designer and the Contractor be performed during design. In addition to an initial meeting with the Design Build Project Manager, the Design Manager will meet with the Construction Manager periodically during the design so he can review the constructability of the design. Once the construction has begun, it is anticipated a design engineer will visit the site periodically to observe the construction and verify the construction is being performed in accordance with the design.

Integration of Design Packages into Construction – Once the NTP is received the 30% design phase will begin. We will initiate items such as survey, additional geotechnical investigations, hydraulics and the scour analysis. We will also meet with the mill owners and the Town of Coventry to gain insight to their needs and concerns. We would also like to break out the design of the spillway walls and slab into a separate design package to be submitted prior to the 30% design package. By doing this we can get an early start on historical coordination and environmental permits since this is the work that will be most critical to the

permitting process. Early design and approval of the spillway walls and slab will provide the opportunity to get them constructed before the typically higher water flows in the spring months. They would then provide protection from the river flow while constructing the abutments.

As the design of the spillway walls and slab are being done the 30% submittal package for the bridge and roadway will begin. During the design phase, regular meetings will be held with the Design Build Project Manager and Construction Manager to gain input to the construction means and methods and items that have longer lead times for fabrication. The design team can then incorporate this information into the design process.

Once the 30% design package is submitted and is being reviewed by RIDOT, we will work on the design of construction type items such as support of excavation, erection procedure, demolition of north abutment, etc. Once the demolition submittal package is complete it will be submitted for approval so demolition can get started during the remainder of the design.

Any comments from RIDOT will be incorporated into the design and the contract documents will be advanced to the PS&E stage and final acceptance by RIDOT.

Coordination of Design Plan Reviews with RIDOT & Others – RIDOT has stated they will perform “over the shoulder” reviews during the design phase. This will facilitate quicker reviews and enable the design to continue with little “down time” between reviews. Once RIDOT has made their comments and we have reviewed them, we would propose to have resolution meetings with RIDOT and others to reduce the back and forth time typically taken to resolve comments. The RFP lists Kevin Farmer at the USDA, Natural Resources Conservation Service as another entity for reviewing the

design plans. We have worked with Mr. Farmer and the USDA during the time of the floods and damage to the mills next to the bridge and found this type of meeting worked well in getting approval for the repairs proposed for the mills.

Design QA/QC

Mr. Jeff E. Lewis, PE from *Garofalo* will be the QA/QC Manager for the design phase. *Garofalo* will establish the process to be adhered to during design. The process will include procedures for design, checking and back checking of calculations, plans and specifications. The documents used for checking and back checking will be marked with the initials of the checker and back checker and the date of when the activity was completed.

Prior to the contract documents being submitted to RIDOT for reviews, the documents will be reviewed by a senior level engineer for quality control. This person will use checklists of design items and required information to be shown on the plans as a guide during the review. They will also check to be sure all of the contract documents have been initialed as having been checked and back checked and then document the review has been completed on a QA/QC form.

Construction QA/QC

S&R focuses on quality management wherein all activities of the overall management function that determines the quality policy, objectives, and responsibilities are implemented by means such as planning, assurance, control, and improvement within the system. The Quality Control Plan is a comprehensive set of procedures and activities that are designed to deliver products that meet or exceed the owner's expectations.

Quality Assurance (QA) refers to the certainty that products and services meet the requirements for quality. The objective of quality assurance is the continual improvement of the total delivery process to enhance quality, productivity, and customer satisfaction. Essentially, quality assurance describes the process of enforcing

quality control standards. When quality assurance is well-implemented, progressive improvement in terms of both reducing errors and omissions and increasing product usability and performance should be noted.

Quality Control refers to operational activities put in place to control the quality of a product or service. These include such activities as providing clear decisions and directions, constant supervision by experienced individuals, immediate review of completed activities for accuracy, and accurate documentation of all decisions, assumptions, and recommendations. Quality control procedures should ensure that the work is done correctly the first time.

The Quality Control Plan for this project will focus on these specific phases:

The Preparatory Phase

- (a) The contractor reviews all of the necessary contract requirements.
- (b) The contractor ensures the compliance of any component materials to the specified contract requirements.
- (c) The contractor coordinates all documentation submittals including, building permits, legal, licenses, and certifications.
- (d) The contractor ensures the capability of any equipment and personnel that will be used on the job to comply with the specified contract requirements.
- (e) The contractor ensures that any necessary preliminary testing is accomplished.
- (f) The contractor coordinates the surveying and staking of the work.

The Start Up Phase

- (a) The contractor reviews the actual contract requirements with any personnel who will be performing work while on that particular job.
- (b) The contractor inspects the beginning of work.
- (c) The contractor establishes standards

of workmanship that should be followed.

(d) The contractor provides any necessary training that is needed to perform the job right.

(e) The contractor creates a detailed testing schedule based upon the production schedule.

The Production Phase

(a) The contractor conducts intermittent or continuous inspections during construction process to identify and correct any deficiencies.

(b) The contractor inspects any completed phases before scheduled Owner acceptance.

(c) The contractor provides feedback and system changes to prevent repeated deficiencies.

(d) Keep accurate records.

(e) Maintain and file personnel qualifications.

(f) The contractor maintains the same records and qualification on any subcontractors, just like with any employee.

1. Categories of work anticipated:

Self-Performed Categories: Mobilization/demobilization, excavation, dewatering, gravel base courses, gravel borrow subbase courses, culverts and storm drains, manholes, catch basins, adjust curb stops and gate boxes, removal of existing structures, cast-in-place concrete masonry, structural steel construction, bridge bearings, dust control, flagpersons, riprap, temporary construction signs, precast concrete barrier for traffic control, construction survey and loam.

Subcontracted Categories: Erosion controls, bituminous concrete pavement, cold planning, reinforcing steel, deep foundation piles, placement of concrete bridge deck, sawing and sealing joints, painting structural steel, metal bridge railing, bridge signs, steel beam guardrail, fences, sidewalks and driveways, curbing for roadways, stone masonry walls, field control, pavement markings, seeding, planting and selective clearing.

2. Coordination:

The Contractor shall coordinate a pre-design/construction meeting. The contractor shall transmit, in writing, notification of the time and place of the coordination meeting to: all federal, state and local agencies, local emergency response providers, local public works, utility owners, municipal and county governments. The initial coordination meeting shall be held to establish and exchange contact information as well as determine rolls of all the stake holders. Subsequent coordination meetings will be scheduled with adequate frequency to maintain constant and clear communication. The contact persons for the S&RCorp/GarofaloDesign/Buildteam shall be: Mark Wallis, S&R, Project Manager 978-375-8067

Robert Campbell, S&R, Project Superintendent 603-365-6111

3. Traffic Control:

Traffic will be controlled with the implementation of advanced warning devices including but not limited to temporary construction signs, arrow boards, message boards, drums, flagpersons, etc. Traffic control during daily construction activities will be necessary for construction vehicles entering and leaving live traffic on Washington Street and on Pilgrim Avenue. Police details shall be employed to maintain uninterrupted traffic flow on these abutting streets. The southerly approach to the Laurel Avenue Bridge has an intersecting bike path and an access drive to adjacent mill buildings. The northerly approach has a loading area to the adjacent mill building and a driveway to the adjacent convenience store/gas station. Access to these public ways shall not be limited. Positioning immobile construction equipment, vehicles, materials or supplies shall not be permitted in areas that will block or impede the flow of traffic.

4. Facilities:

The construction zone shall be delineated with a perimeter fence and gates with a northerly limit at the south side of the mill building loading driveway to a southerly limit at the north edge of the mill building access drive. The fence shall be backed up with temporary median barrier to prevent vehicular traffic from entering the work zone. All material, equipment and supplies shall be stored inside the construction zone. Erosion and sediment controls shall be installed to protect all active waterways, drainage systems and, in areas where surface areas need to be protected from sedimentation caused by construction activities. Temporary comfort facilities shall be positioned on both the

north and south side of the project. Temporary field office facilities shall be provided off site in existing commercial office space.

5. Construction Activities:

General:

Construction activities shall be conducted in a safe and workmanlike manner with special attention given to controlling dust and noise as well as maintaining a clean and orderly appearance. The work schedule for the project shall ordinarily be five days a week, Monday through Friday. The work hours shall be 7:00 AM to 3:30 PM. Construction work shall begin once all permits are obtained, utilities relocated (if necessary) and major subcontract and material suppliers have been contracted. Once work begins, progress shall be continuous until completion of the work, the work is accepted by RIDOT, and the project is open to traffic.

Utilities:

Overhead utility relocation efforts shall be minimized if not completely eliminated by de-energizing the overhead utilities when work is performed in close proximity to the utilities. The activities that may be affected are installation of a support of excavation structure, installation of minipiles and erection of the steel bridge frame.

Construction Means and Methods:

A support of excavation (SOE) structure will be required to perform excavation and construction for the new splash pad. The SOE will consist of an "H" pile and timber lagging system in areas where there are no overhead obstructions, and a variation of the system will be used in areas where there are overhead utilities. The "H" pile shall be installed by drilling a 24" cased hole, and placing the pile in the casing. The casing shall then be filled with a lean excavatable cement concrete mix. Once the piles are in place the lagging will be installed using conventional methods.

A water diversion system will be installed per section 5.5 of this proposal. Once the water diversion is installed, the new splash pad will be constructed in two phases of approximately equal size with a construction joint in the east/west direction. Subsequent to the installation of the new splash pad and stone faced walls, the work will be backfilled to an elevation near the bottom of the new bridge footing. Timber lagging will be removed as backfilling progresses.

Sixteen, 10" diameter minipiles will be installed at each abutment. Cast in place concrete footings, abutments and backwalls will follow the installation of the minipiles. Subsequent to the substructure construction the work will be backfilled to the top of the back wall. Timber lagging will be removed as backfilling progresses. The "H" pile installed for the SOE shall be cutoff 4' below finished grade and left in place.

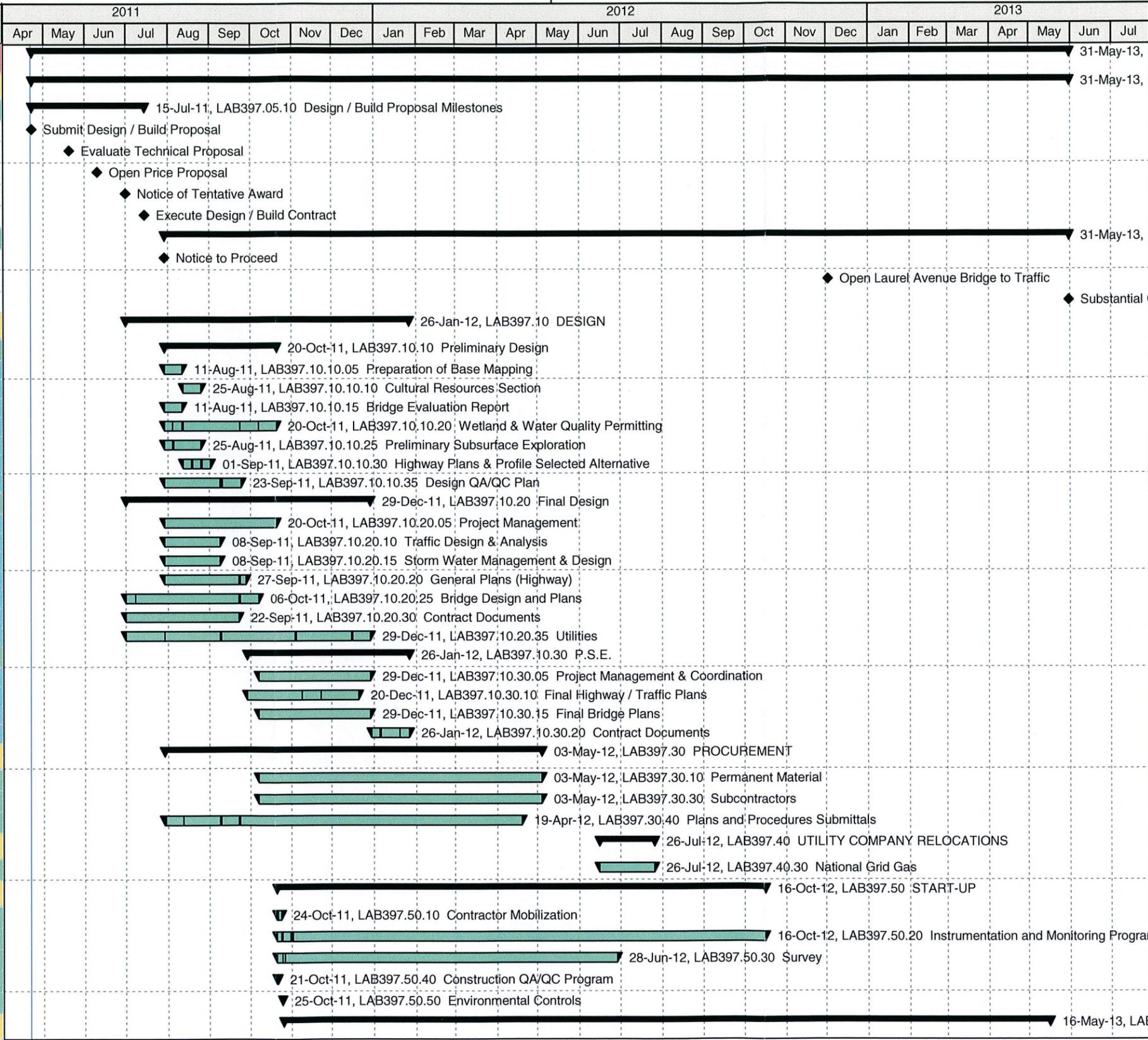
The new bridge frame will be installed by positioning cranes on the approaches to the bridge. Overhead utilities are expected to preclude traditional erection of the two west stringers. The two west stringers will be installed by first placing them in a position near the center line of the bridge. Once in place near the center line of the bridge a tandem lift with low clearance hoisting equipment will be used to lift the stringers from the center line and "shift" them to the west, under the overhead utilities, to their final position. Subsequent to the bridge frame erection, the cast in place concrete bridge deck, sidewalks and parapets will be placed.

Once the bridge is constructed, the drainage, road construction and incidentals will be completed prior to opening the bridge to traffic.

LAB397	DESIGN/BUILD REPLACEMENT OF LAUREL AVE. BRIDGE
LAB397.05	DESIGN
LAB397.05.10	Preliminary Design
LAB397.05.10.05	Preparation of Base Mapping
LAB397.05.10.10	Cultural Resources Section
LAB397.05.10.15	Bridge Evaluation Report
LAB397.05.10.20	Wetland & Water Quality Permitting
LAB397.05.10.25	Preliminary Subsurface Exploration
LAB397.05.10.30	Highway Plans & Profiles Selected Alternative
LAB397.05.20	Final Design
LAB397.05.20.05	Project Management
LAB397.05.20.10	Traffic Design & Analysis
LAB397.05.20.15	Storm Water Management & Design
LAB397.05.20.20	General Plans (Highway)
LAB397.05.20.25	Bridge Design and Plans
LAB397.05.20.30	Contract Documents
LAB397.05.20.35	Utilities
LAB397.05.30	P.S.E
LAB397.05.30.05	Project Management & Coordination
LAB397.05.30.10	Final Highway/Traffic Plans
LAB397.05.30.15	Final Bridge Plans
LAB397.05.30.20	Contract Documents
LAB397.10	MILESTONES
LAB397.10.10	Design Milestones
LAB397.10.20	Construction Milestones
LAB397.20	SUMMARY ACTIVITIES
LAB397.30	PROCUREMENT
LAB397.30.10	Permanent Material
LAB397.30.20	Consumable Material
LAB397.30.30	Subcontractors
LAB397.30.40	Plans and Procedure Submittals
LAB397.30.50	Material Testing / Qualification
LAB397.40	UTILITY COMPANY RELOCATIONS
LAB397.40.10	Verizon Communications
LAB397.40.20	National Grid Electric Company
LAB397.40.30	National Grid Gas
LAB397.40.40	Cox Communications, Inc.
LAB397.40.50	Kent County Water Authority
LAB397.40.60	Coventry Fire Department
LAB397.40.70	Coventry Department of Public Works
LAB397.50	START-UP
LAB397.50.10	Contractor Mobilization
LAB397.50.20	Instrumentation and Monitorign Program
LAB397.50.30	Survey

LAB397.50.40	Construction QA/QC Program
LAB397.50.50	Environmental Controls
LAB397.60	CONSTRUCTION OPERATIONS
LAB397.60.10	Site Preparation
LAB397.60.20	Control of Water
LAB397.60.30	Demolition
LAB397.60.40	Support of Excavation
LAB397.60.50	Spillway Channel Reconstruction
LAB397.60.60	Bridge Substructure Reconstruction
LAB397.60.70	Bridge Superstructure Reconstruction
LAB397.60.80	Highway / Approach Construction
LAB397.70	PROJECT CLOSEOUT
LAB397.70.10	Demobilize Site Facilities

Activity ID	Activity Name	Start	Finish	OD
LAB397 DESIGN / BUILD REPLACEMENT OF LAUREL AVE. BRID...				
LAB397.05 MILESTONES				
LAB397.05.10 Design / Build Proposal Milestones				
LA10001010	Submit Design / Build Proposal	22-Apr-11*		0
LA10001020	Evaluate Technical Proposal	20-May-11*		0
LA10001030	Open Price Proposal	10-Jun-11*		0
LA10001040	Notice of Tentative Award	01-Jul-11*		0
LA10001050	Execute Design / Build Contract	15-Jul-11*		0
LAB397.05.20 Construction Operations Milestones				
LA10002010	Notice to Proceed	29-Jul-11*		0
LA10002020	Open Laurel Avenue Bridge to Traffic		02-Dec-12*	0
LA10002030	Substantial Completion		31-May-13*	0
LAB397.10 DESIGN				
LAB397.10.10 Preliminary Design				
LAB397.10.10.05 Preparation of Base Mapping				
LAB397.10.10.10 Cultural Resources Section				
LAB397.10.10.15 Bridge Evaluation Report				
LAB397.10.10.20 Wetland & Water Quality Permitting				
LAB397.10.10.25 Preliminary Subsurface Exploration				
LAB397.10.10.30 Highway Plans & Profile Selected Alternative				
LAB397.10.10.35 Design QA/QC Plan				
LAB397.10.20 Final Design				
LAB397.10.20.05 Project Management				
LAB397.10.20.10 Traffic Design & Analysis				
LAB397.10.20.15 Storm Water Management & Design				
LAB397.10.20.20 General Plans (Highway)				
LAB397.10.20.25 Bridge Design and Plans				
LAB397.10.20.30 Contract Documents				
LAB397.10.20.35 Utilities				
LAB397.10.30 P.S.E.				
LAB397.10.30.05 Project Management & Coordination				
LAB397.10.30.10 Final Highway / Traffic Plans				
LAB397.10.30.15 Final Bridge Plans				
LAB397.10.30.20 Contract Documents				
LAB397.30 PROCUREMENT				
LAB397.30.10 Permanent Material				
LAB397.30.30 Subcontractors				
LAB397.30.40 Plans and Procedures Submittals				
LAB397.40 UTILITY COMPANY RELOCATIONS				
LAB397.40.30 National Grid Gas				
LAB397.50 START-UP				
LAB397.50.10 Contractor Mobilization				
LAB397.50.20 Instrumentation and Monitoring Program				
LAB397.50.30 Survey				
LAB397.50.40 Construction QA/QC Program				
LAB397.50.50 Environmental Controls				
LAB397.60 CONSTRUCTION OPERATIONS				



█ Actual Work
 █ Critical Remaining Work
 Summary
 █ Remaining Work
 ◆ Milestone
 Summary Contract

The critical path of the project runs from the early submission and approval of the environmental permits, water control plan, support of excavation plan, demolition plan, splash pad design and spillway wall design, to enable construction operations to begin in the spillway while highway and bridge design continues to final design approval and PS&E documents. After spillway reconstruction is complete the critical path runs from installation of foundation piles to substructure construction to superstructure construction to highway/approach reconstruction up to base and binder pavement on roadway and bridge deck to pavement markings and to the opening of Laurel Ave. to traffic by the required contract date. Construction operations will shut down for the winter 2012/2013 and resume about April of 2013 and finish by the required substantial completion date.

Work planned for the initial 120 days includes:

- Environmental Permitting
- Splash Pad/Spillway Design
- Approved Plans to Facilitate Splash Pad/Spillway Reconstruction
- Preliminary Highway, Foundation and Structure design
- Subsurface Geotechnical Investigation, Analysis and Design
- Instrumentation and Monitoring Plan
- Preliminary Utility Relocation Plans
- SWPPP Plan
- QA/QC Program w/component plans
- Additional ROW if needed
- Contractor Mobilization
- Instrumentation and Monitoring
- Preconstruction Survey
- Spillway Water Diversion
- North Abutment Demolition
- SOE
- Commencement of Splash Pad/Spillway Wall Reconstruction

In order to meet the proposed start of construction operations before final approved PS&E documents, several submittals have been flagged as initial/critical, these include:

- Environmental Permitting
- Geotechnical Subsurface Investigation, Analysis and Design
- QA/QC Program with component plans relating to splash pad/ spillway wall reconstruction
- SWPPP Plan
- Construction Operations plans for Control of Water, Demolition, Support of Excavation
- Erosion, Sedimentation and Scour Control Plan
- Subcontractor Approval for splash pad/ spillway wall reconstruction
- Approved Materials procurement of all material related to splash pad/ spillway wall reconstruction

The long lead items (original duration greater than 60 days) for this project include:

- Structural Steel

Key Constraints and potential problems affecting work progress:

1. Bituminous Concrete batching plants may close during winter months
2. Extended periods of rainy weather may cause high water levels similar to those of the 2010 storm

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR**

CONTRACT/PROPOSAL NAME:

NAME OF BIDDER/RESPONDENT:

The undersigned intends to perform work in connection with the above contract upon the execution and subsequent award of the contract by RIDOT:

Name of DBE Subcontractor LAMSON ENGINEERING CORPORATION
Address 437 CHERRY ST. # 109
City NEWTON State MASS. Zip 02465

Please check if RI certification letter attached:

Disadvantaged Business Enterprise (DBE)

The DBE status of the above named subcontractor is certified by the Rhode Island Department of Administration. The above named subcontractor is prepared to perform the described work listed on the DBE Utilization Plan, in connection with the above contract upon execution of such and subsequent award of the contract by RIDOT. The above named subcontractor is prepared to perform the described work for the Price identified on the DBE Utilization Plan. (See Price Proposal).

The above named bidder and subcontractor mutually accepts the commitment total estimated for the Unit Prices and Quantities. This commitment total is based on estimated quantities only and most likely will vary up or down as the project is completed. Final compensation and DBE credit will be based on actual quantities of work performed and accepted during the pursuance of work. The listed amount represents the entire dollar amount quoted based on these estimated quantities. No conversations, verbal agreements, and/or other forms of non-written representations shall serve to add, delete, or modify the terms as stated. This document shall not serve in any manner as an actual subcontract between the two parties. A separate subcontractor agreement will describe in detail the contractual obligations of the bidder and the DBE subcontractor.

Affirmation

The above named DBE subcontractor affirms that it will perform the portion(s) of the contract for the estimated dollar value as stated in the DBE Utilization Plan (see Price Proposal).

LAMSON ENGINEERING CORP. CAROFALLO ASSOC INC
Name of DBE Subcontractor Name of Bidder

William C. Lamson [Signature] 4-21-11
4/6/2011 PRESIDENT
Signature / Title Date Signature / Title Date

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR

CONTRACT/PROPOSAL NAME:
*Design Build/Laurel Avenue Bridge
No. 397*

NAME OF BIDDER/RESPONDENT:
Garofalo Assoc.

The undersigned intends to perform work in connection with the above contract upon the execution and subsequent award of the contract by RIDOT:

Name of DBE Subcontractor *Northstar Hydro, Inc.*
 Address *8 Co Way*
 City *Winothrop* State *ME* Zip *04364*

Please check if RI certification letter attached:
 Disadvantaged Business Enterprise (DBE)

The DBE status of the above named subcontractor is certified by the Rhode Island Department of Administration. The above named subcontractor is prepared to perform the described work listed on the DBE Utilization Plan, in connection with the above contract upon execution of such and subsequent award of the contract by RIDOT. The above named subcontractor is prepared to perform the described work for the Price identified on the DBE Utilization Plan. (See Price Proposal).

The above named bidder and subcontractor mutually accepts the commitment total estimated for the Unit Prices and Quantities. This commitment total is based on estimated quantities only and most likely will vary up or down as the project is completed. Final compensation and DBE credit will be based on actual quantities of work performed and accepted during the pursuance of work. The listed amount represents the entire dollar amount quoted based on these estimated quantities. No conversations, verbal agreements, and/or other forms of non-written representations shall serve to add, delete, or modify the terms as stated. This document shall not serve in any manner as an actual subcontract between the two parties. A separate subcontractor agreement will describe in detail the contractual obligations of the bidder and the DBE subcontractor.

Affirmation

The above named DBE subcontractor affirms that it will perform the portion(s) of the contract for the estimated dollar value as stated in the DBE Utilization Plan (see Price Proposal).

<i>Northstar Hydro, Inc.</i>	<i>Garofalo Assoc Inc</i>
Name of DBE Subcontractor	Name of Bidder
<i>Ellen O'Brien President</i>	
Signature / Title	Signature / Title
<i>4/1/2011</i>	<i>4-21-11</i>
Date	Date

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR

CONTRACT/PROPOSAL NAME:

NAME OF BIDDER/RESPONDENT:

The undersigned intends to perform work in connection with the above contract upon the execution and subsequent award of the contract by RIDOT:

Name of DBE Subcontractor APPLIED BID-SYSTEMS, INC.
Address P.O. Box 985
City WEST KINGSTON State RI Zip 02892

Please check if RI certification letter attached:

Disadvantaged Business Enterprise (DBE)

The DBE status of the above named subcontractor is certified by the Rhode Island Department of Administration. The above named subcontractor is prepared to perform the described work listed on the DBE Utilization Plan, in connection with the above contract upon execution of such and subsequent award of the contract by RIDOT. The above named subcontractor is prepared to perform the described work for the Price identified on the DBE Utilization Plan. (See Price Proposal).

The above named bidder and subcontractor mutually accepts the commitment total estimated for the Unit Prices and Quantities. This commitment total is based on estimated quantities only and most likely will vary up or down as the project is completed. Final compensation and DBE credit will be based on actual quantities of work performed and accepted during the pursuance of work. The listed amount represents the entire dollar amount quoted based on these estimated quantities. No conversations, verbal agreements, and/or other forms of non-written representations shall serve to add, delete, or modify the terms as stated. This document shall not serve in any manner as an actual subcontract between the two parties. A separate subcontractor agreement will describe in detail the contractual obligations of the bidder and the DBE subcontractor.

Affirmation

The above named DBE subcontractor affirms that it will perform the portion(s) of the contract for the estimated dollar value as stated in the DBE Utilization Plan (see Price Proposal).

APPLIED BID-SYSTEMS, INC. CAROFALO & ASSOC INC
Name of DBE Subcontractor Name of Bidder

[Signature] 4/21/11 [Signature] 4-21-11
Signature / Title PRESIDENT Date Signature / Title PRESIDENT Date

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR

CONTRACT/PROPOSAL NAME:

Design/Build Services for the Replacement of
the Laurel Avenue Bridge #397, Coventry, RI

NAME OF BIDDER/RESPONDENT:

S&R CORPORATION

The undersigned intends to perform work in connection with the above contract upon the execution and subsequent award of the contract by RIDOT:

Name of DBE Subcontractor HB WELDING INC.
Address 117 WEBSTER ST.
City PAWTUCKET State RI Zip 02861

Please check if RI certification letter attached:

Disadvantaged Business Enterprise (DBE)

The DBE status of the above named subcontractor is certified by the Rhode Island Department of Administration. The above named subcontractor is prepared to perform the described work listed on the DBE Utilization Plan, in connection with the above contract upon execution of such and subsequent award of the contract by RIDOT. The above named subcontractor is prepared to perform the described work for the Price identified on the DBE Utilization Plan. (See Price Proposal).

The above named bidder and subcontractor mutually accepts the commitment total estimated for the Unit Prices and Quantities. This commitment total is based on estimated quantities only and most likely will vary up or down as the project is completed. Final compensation and DBE credit will be based on actual quantities of work performed and accepted during the pursuance of work. The listed amount represents the entire dollar amount quoted based on these estimated quantities. No conversations, verbal agreements, and/or other forms of non-written representations shall serve to add, delete, or modify the terms as stated. This document shall not serve in any manner as an actual subcontract between the two parties. A separate subcontractor agreement will describe in detail the contractual obligations of the bidder and the DBE subcontractor.

Affirmation

The above named DBE subcontractor affirms that it will perform the portion(s) of the contract for the estimated dollar value as stated in the DBE Utilization Plan (see Price Proposal).

HB WELDING INC.

Name of DBE Subcontractor

S&R CORPORATION

Name of Bidder

Helen Bacon, Pres 4/18/11

Signature / Title

Date


_____ 4/22/11

Signature / Title

Roger R. Ploof Jr., President

Date

RECEIVED SEP 7 2010

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS



Department of Administration
Minority Business Enterprise Compliance Office
One Capitol Hill
Providence, RI 02908-5860
Office: (401) 574-8670
Fax: (401) 574-8387

RI Relay: 711
www.mbe.ri.gov

September 2, 2010

Ms. Helen Bacon
HB Welding, Inc.
117 Webster Street
Pawtucket, RI 02861

Dear Ms. Bacon:

Based on the recertification application and supplemental information provided by you, your application for recertification for the State of Rhode Island Minority Business Enterprise Program has been approved. Your company has been approved as a **WBE/DBE** to conduct business primarily as a **“steel erection, pre-cast erection, installation of decking, miscellaneous iron work and welding”** firm under SIC Code 1791 and under NAICS Code 238120. Your “Minority Business Certification Number” which you can use as proof of your status is MBCN 75. If your company has been identified as a DBE, be advised that the MBE Compliance Office, acting as certification agent for RIDOT, RIAC, and RIPTA, has determined that your firm meets the certification criteria as established by U.S. DOT under 49 CFR Part 26.

Your certification is valid until **10/31/2014** unless revoked sooner based on a determination of ineligibility. It is your responsibility to notify the Minority Business Enterprise Compliance Office of any changes in the ownership or control of your business within 30 days of such changes. At the end of your certification period, if you wish to recertify, your company will undergo a substantive review, including a new site visit, as applicable.

In order to maintain your certification during the certification period, you must submit your annual review package sixty (60) days prior to your annual review date which is **10/31/2011**. Your annual review package must include: (a) a completed No Change Affidavit; (b) current corporate financial statements; (c) current corporate and personal tax returns including all schedules and attachments; (d) completed Personal Financial Statement and Statement of Disadvantage Forms; and (e) a copy of your current certification letter from your home state UCP if firm is not based in Rhode Island. Failure to submit your annual review package will result in an administrative removal of your certification.

We wish you success in the State of Rhode Island’s Minority Business Enterprise Program and the Department of Transportation’s Disadvantaged Business Enterprise Program; and, if we can be of further assistance to you, please contact this office.

Sincerely,

Charles C. Newton, Administrator
MBE Compliance Office

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR

CONTRACT/PROPOSAL NAME:
Design/Build Services for the
Replacement of the Laurel Ave. Bridge
#397, Coventry RI

NAME OF BIDDER/RESPONDENT:
S&R CORPORATION

The undersigned intends to perform work in connection with the above contract upon the execution and subsequent award of the contract by RIDOT:

Name of DBE Subcontractor Desperini Contracting Group
Address 65 Jefferson Blvd
City Warwick State RI Zip 02888

Please check if RI certification letter attached:

Disadvantaged Business Enterprise (DBE)

The DBE status of the above named subcontractor is certified by the Rhode Island Department of Administration. The above named subcontractor is prepared to perform the described work listed on the DBE Utilization Plan, in connection with the above contract upon execution of such and subsequent award of the contract by RIDOT. The above named subcontractor is prepared to perform the described work for the Price identified on the DBE Utilization Plan. (See Price Proposal).

The above named bidder and subcontractor mutually accepts the commitment total estimated for the Unit Prices and Quantities. This commitment total is based on estimated quantities only and most likely will vary up or down as the project is completed. Final compensation and DBE credit will be based on actual quantities of work performed and accepted during the pursuance of work. The listed amount represents the entire dollar amount quoted based on these estimated quantities. No conversations, verbal agreements, and/or other forms of non-written representations shall serve to add, delete, or modify the terms as stated. This document shall not serve in any manner as an actual subcontract between the two parties. A separate subcontractor agreement will describe in detail the contractual obligations of the bidder and the DBE subcontractor.

Affirmation

The above named DBE subcontractor affirms that it will perform the portion(s) of the contract for the estimated dollar value as stated in the DBE Utilization Plan (see Price Proposal).

Desperini Contracting Group

Name of DBE Subcontractor

S&R CORPORATION

Name of Bidder

[Signature] J.P. 4-19-11
Signature / Title Date

[Signature] 4/22/11
Signature / Title Date
Roger R. Ploof Jr., President

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS



Department of Administration
Minority Business Enterprise Compliance Office
One Capitol Hill
Providence, RI 02908-5860
Office: (401) 574-8670
Fax: (401) 574-8387

RI Relay: 711
www.mbe.ri.gov

December 1, 2010

Mr. Robert Desperini
Desperini Contracting Group, Inc.
65 Jefferson Boulevard
Warwick, RI 02888

Dear Mr. Desperini:

Based on the recertification application and supplemental information provided by you, your application for recertification for the State of Rhode Island's MBE Program and/or the U.S. Department of Transportation's DBE Program has been approved. Your company has been approved as a **MBE/DBE** to conduct business primarily as a **"installation of reinforcing rods/rebar, light iron and structural steel erection; installation of unexposed/unfinished concrete foundations; excludes concrete finishing and concrete flatwork"** firm under primary NAICS Code 238120. Your "Minority Business Certification Number" which you can use as proof of your status is MBCN 1169. If your company has been identified as a DBE, be advised that the MBE Compliance Office, acting as certification agent for RIDOT, RIAC, and RIPTA, has determined that your firm meets the certification criteria as established by U.S. DOT under 49 CFR Part 26.

Your certification is valid until **12/31/2014** unless revoked sooner based on a determination of ineligibility. It is your responsibility to notify the Minority Business Enterprise Compliance Office of any changes in the ownership or control of your business within 30 days of such changes. At the end of your certification period, if you wish to recertify, your company will undergo a substantive review, including a new site visit, as applicable.

In order to maintain your certification during the certification period, you must submit your annual review package sixty (60) days prior to your annual review date which is **12/31/2011**. Your annual review package must include: (a) a completed No Change Affidavit; (b) current corporate financial statements; (c) current corporate and personal tax returns including all schedules and attachments; (d) completed Personal Financial Statement and Statement of Disadvantage Forms; and (e) a copy of your current certification letter from your home state UCP if firm is not based in Rhode Island. Failure to submit your annual review package will result in an administrative removal of your certification.

We wish you success in the State of Rhode Island's MBE Program and/or the Department of Transportation's DBE Program, and if we can be of further assistance to you, please contact this office.

Sincerely,

Charles C. Newton, Administrator
MBE Compliance Office

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR**

CONTRACT/PROPOSAL NAME:

NAME OF BIDDER/RESPONDENT:

The undersigned intends to perform work in connection with the above contract upon the execution and subsequent award of the contract by RIDOT:

Name of DBE Subcontractor LAMSON ENGINEERING CORPORATION
Address 437 CHERRY ST. # 109
City NEWTON State MASS. Zip 02465

Please check if RI certification letter attached:

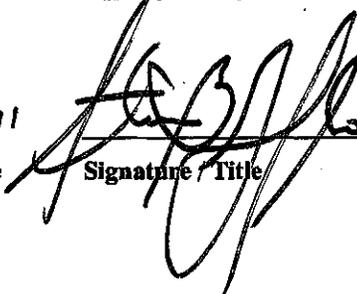
Disadvantaged Business Enterprise (DBE)

The DBE status of the above named subcontractor is certified by the Rhode Island Department of Administration. The above named subcontractor is prepared to perform the described work listed on the DBE Utilization Plan, in connection with the above contract upon execution of such and subsequent award of the contract by RIDOT. The above named subcontractor is prepared to perform the described work for the Price identified on the DBE Utilization Plan. (See Price Proposal).

The above named bidder and subcontractor mutually accepts the commitment total estimated for the Unit Prices and Quantities. This commitment total is based on estimated quantities only and most likely will vary up or down as the project is completed. Final compensation and DBE credit will be based on actual quantities of work performed and accepted during the pursuance of work. The listed amount represents the entire dollar amount quoted based on these estimated quantities. No conversations, verbal agreements, and/or other forms of non-written representations shall serve to add, delete, or modify the terms as stated. This document shall not serve in any manner as an actual subcontract between the two parties. A separate subcontractor agreement will describe in detail the contractual obligations of the bidder and the DBE subcontractor.

Affirmation

The above named DBE subcontractor affirms that it will perform the portion(s) of the contract for the estimated dollar value as stated in the DBE Utilization Plan (see Price Proposal).

<u>LAMSON ENGINEERING CORP.</u>	<u>CAROFALLO ASSOC INC</u>
Name of DBE Subcontractor	Name of Bidder
<u>William C. Lamson</u>	
Signature / Title	Signature / Title
<u>4/6/2011</u>	<u>4-21-11</u>
Date	Date

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR

CONTRACT/PROPOSAL NAME:
*Design Build/Laurel Avenue Bridge
No. 397*

NAME OF BIDDER/RESPONDENT:
Garofalo Assoc.

The undersigned intends to perform work in connection with the above contract upon the execution and subsequent award of the contract by RIDOT:

Name of DBE Subcontractor *Northstar Hydro, Inc.*
Address *8 Co Way*
City *Winothrop* State *ME* Zip *04364*

Please check if RI certification letter attached:

Disadvantaged Business Enterprise (DBE)

The DBE status of the above named subcontractor is certified by the Rhode Island Department of Administration. The above named subcontractor is prepared to perform the described work listed on the DBE Utilization Plan, in connection with the above contract upon execution of such and subsequent award of the contract by RIDOT. The above named subcontractor is prepared to perform the described work for the Price identified on the DBE Utilization Plan. (See Price Proposal).

The above named bidder and subcontractor mutually accepts the commitment total estimated for the Unit Prices and Quantities. This commitment total is based on estimated quantities only and most likely will vary up or down as the project is completed. Final compensation and DBE credit will be based on actual quantities of work performed and accepted during the pursuance of work. The listed amount represents the entire dollar amount quoted based on these estimated quantities. No conversations, verbal agreements, and/or other forms of non-written representations shall serve to add, delete, or modify the terms as stated. This document shall not serve in any manner as an actual subcontract between the two parties. A separate subcontractor agreement will describe in detail the contractual obligations of the bidder and the DBE subcontractor.

Affirmation

The above named DBE subcontractor affirms that it will perform the portion(s) of the contract for the estimated dollar value as stated in the DBE Utilization Plan (see Price Proposal).

Northstar Hydro, Inc.

Garofalo Assoc Inc

Name of DBE Subcontractor

Name of Bidder

Ellen O'Brien President

[Signature] **4-21-11**
(PRESIDENT)

Signature / Title *4/1/2011*

Date Signature / Title Date

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR

CONTRACT/PROPOSAL NAME:

NAME OF BIDDER/RESPONDENT:

The undersigned intends to perform work in connection with the above contract upon the execution and subsequent award of the contract by RIDOT:

Name of DBE Subcontractor APPLIED BID-SYSTEMS, INC.
Address P.O. Box 985
City WEST KINGSTON State RI Zip 02892

Please check if RI certification letter attached:

Disadvantaged Business Enterprise (DBE)

The DBE status of the above named subcontractor is certified by the Rhode Island Department of Administration. The above named subcontractor is prepared to perform the described work listed on the DBE Utilization Plan, in connection with the above contract upon execution of such and subsequent award of the contract by RIDOT. The above named subcontractor is prepared to perform the described work for the Price identified on the DBE Utilization Plan. (See Price Proposal).

The above named bidder and subcontractor mutually accepts the commitment total estimated for the Unit Prices and Quantities. This commitment total is based on estimated quantities only and most likely will vary up or down as the project is completed. Final compensation and DBE credit will be based on actual quantities of work performed and accepted during the pursuance of work. The listed amount represents the entire dollar amount quoted based on these estimated quantities. No conversations, verbal agreements, and/or other forms of non-written representations shall serve to add, delete, or modify the terms as stated. This document shall not serve in any manner as an actual subcontract between the two parties. A separate subcontractor agreement will describe in detail the contractual obligations of the bidder and the DBE subcontractor.

Affirmation

The above named DBE subcontractor affirms that it will perform the portion(s) of the contract for the estimated dollar value as stated in the DBE Utilization Plan (see Price Proposal).

APPLIED BID-SYSTEMS, INC. CAROFALO & ASSOC INC
Name of DBE Subcontractor Name of Bidder

[Signature] 4/21/11 [Signature] 4-21-11
Signature / Title PRESIDENT Date Signature / Title PRESIDENT Date

**RIDOT
ON-THE-JOB TRAINING
ACKNOWLEDGEMENT AND STATEMENT OF INTENT**

April 22, 2011

Date

To: RIDOT OJT Coordinator
Office of Business and Community Resources
Rhode Island Department of Transportation
2 Capitol Hill Rm109
Providence, RI 02903

Project Name and Number: Laurel Avenue Bridge, Coventry RI Bid #7448315

S&R CORPORATION (Respondent) will review the OJT requirements (Training Specification) in the contract for the above noted project. Based on these requirements, the availability of applicants within a reasonable area of recruitment, and in an effort to meet the minority and female participation goals outlined in the OJT Specification, our company will select a qualified trainee(s) and conduct training under the classification(s) identified below in accordance with the RIDOT OJT Program.

* Selected firm must submit a copy of training plan (training classification) to be used during post qualification.

The undersigned has personally reviewed the content of each selected training classification in relation to the project scope and assures that all portions of training can be completed if initiated by the "no later than" (NLT) date indicated below.

1 Selected Training Classification	2 Number of Trainees in Classification	3 Projected Start Date	4 NLT Start Date in Order to Complete training hours
1. Operator	1	3/15/12	6/1/12
2. Laborer	1	3/15/12	6/1/12
3.			
4.			
5.			

IMPORTANT: Written justification is required to substantiate the selection of training classifications where company representation is below the minority and female participation goals specified in the contract. Compare columns (i) and (j) of the table on page 2 of 2 with 41 CFR 60-4.2, Affirmative Action Requirements.

Please provide information regarding your company's current workforce demographics in the trades listed below:

(a) Trade Classification	(b) Total Employees	(c) Female	(d) Hispanic	(e) American Indian or Alaskan Native	(f) Black	(g) Asian or Pacific Islander	(h) Total of columns (d) through (g)	(i) Minority Percentage (h) / (b)	(j) Female Percentage (c) / (b)
Constr. Supervisors	12						0	0%	0%
Constr. Foreperson	5		1				1	20%	0%
Carpenters	0						0	0%	0%
Equipment Mechanics	2						0	0%	0%
Equipment Operators	7						0	0%	0%
Grade Foreman Asst.	0						0	0%	0%
Ironworker	0						0	0%	0%
Laborers	18	1	8				8	44%	5%
Truck Drivers	5						0	0%	0%

The authorized representative below certifies that the information proved herein is accurate and is made in good faith:

Suzanne Peterson, S&R CORPORATION

Company EEO Officer

Suzanne Peterson
Signature

Date: 4/22/11

Approval Disapproval

Date: _____

RIDOT OJT Coordinator

Eric W. Jones

Professional Experience

2004— Present

S&R Corporation

Lowell, MA

Construction Division Manager

- Responsible for all project management. Project owners include MHD, AMTRAK, MBTA, DCAM, Local Municipalities and Private Owners
- Responsible for the scheduling of all material deliveries and subcontractors.
- Responsible for project start up: Target schedule, submittals, budget and buyout
- Responsible for modifications to contracts, correspondence, cost revenue and tracking and project closeout.

2000— 2004

*Modern Continental
Company, Inc.*

New York, NY

Assistant Project Manager

Long Island Expressway Capacity Improvement Project \$126 Million

- Supervised and trained Superintendents, Field Engineers, Office Engineers and Cost Engineers
- Lead weekly progress meetings with client discussing safety, scheduling, payment and contract specification issues
- Prepared, managed and updated dynamic job CPM schedule
- Prepared and reviewed shop drawings and submittals
- Controlled distribution of project correspondence, submittals and drawings
- Coordinated equipment and manpower utilization needs on a daily basis
- Organized and directed work crews to perform activities efficiently
- Analyzed daily job productivity and implement cost control measures when necessary
- Managed subcontractors through coordination and scheduling
- Estimated and negotiated unit price items for change order work
- Owner: Massachusetts Highway Department
- Contract Amount: \$5,600,000.00
- Completion Date: April 2007

Project Engineer

Rehabilitation of the Long Island Expressway – Queens Midtown Viaduct to GCP Ramps
\$157 Million

- Supervised Field Engineers, Office Engineers and Cost Engineer
- Coordinated crews and equipment to maximize production
- Reviewed daily costs and daily production reports, supervised cost to complete process
- Prepared and managed daily, weekly and monthly schedules
- Reviewed and maintained submittal register
- Supervised subcontractor subcontracts and payments
- Developed and maintained detailed CPM schedule
- Supported field staff with subcontractor management and coordination
- Performed cost and schedule impact analyses

1997— 2000

*Modern Continental
Company, Inc.*

Cambridge, MA

Cost/Schedule Engineer

West Parking Garage Superstructure – Logan Airport \$65 Million

- Coordinated and organized daily work operations
- Developed and maintained a detailed cost loaded CPM schedule
- Performed cost and schedule impact analyses
- Active participant in preparation and negotiation of claims and changes
- Responsible for cost tracking and control
- Supported the field staff with subcontractor management and coordination

1994— 1997

*Foster Wheeler
Environmental Corporation*

Boston, MA

Project Engineer

Remediation and Demolition of Underground Storage Tanks – Newport, RI

Construction of Groundwater Treatment Facility – Bedford, MA

Construction of Groundwater Treatment Facility – Lowell, MA

- Managed the remediation and demolition of twelve underground storage tanks
- Responsible for developing work breakdown structure, baseline budget and CPM schedule, analyzing weekly trends and providing correction action
- Provided construction management support, submittal tracking, subcontract management, performance tracking and earned value calculations
- Furnished client with customized monthly reports detailing project cost forecast to complete, percent complete, various to budget and profit margin calculations
- Managed the construction, start up and operation of a groundwater treatment facility

Education

Degrees

1994

University of Massachusetts

Amherst, MA

Bachelor of Science Civil Engineering

Clayton A. Morin, PE, CSP

Summary

An accomplished safety professional on large construction projects, strong in the management of Environmental Health & Safety Program with implementation of safety initiatives while developing good working relationships with contractor personnel. Excellent understanding of risk assessment, insurance and engineering.

Professional Experience

Oct. 2009— Present

S&R Corporation

Lowell, MA

Corporate Environment, Health and Safety Manager

- Manage and Implement Corporate EH&S Program
- Provide Revisions, Updates and Expansion of Corporate EH&S Program
- Implement and Manage Medical Surveillance Program – Asbestos, Silica, Lead and Noise
- Coordinate and Conduct Environmental Monitoring – Asbestos, Silica, Lead and Noise
- Field Operations: Work with Superintendents and Foreman on the implementation of Project Site Safety
- Conduct Site Specific Safety Inspections/Audits
- Investigate Accidents and Incidents, Develop Reports and act as lead contact for field operations
- Develop, manage and implement Safety Training Program for S&R Personnel
- Manage and Coordinate Transitional Work Program
- Coordinate Loss Control Services of Insurance Broker and Carrier
- Manage and work with Subcontractors relative to Safety
- Report to Sr. Management on the Environmental, Health & Safety Program

July 2001— June 2009

Bovis Lend Lease LMB, Inc.

Boston, MA

Senior Project Environment, Health & Safety Manager

- Develop risk assessments with program and procedure
- Managed site-specific Environmental, Health and Safety (EH&S) Programs
- Implemented safety training programs including orientation and safety recognition courses for project union trades and Bovis personnel
- Implemented Bovis Safety Initiatives such as the Incident and Injury Free Program, Falls Mandate and fire safety by training and working with site personnel, trades, management and owners
- Supervised and conducted environmental assessments, storm water management, waste management, and contaminated soil removal
- Other important aspects of managing the EH&S program involved daily pre-task planning and inspections, risk assessments, incident investigations and regular updates and audits

- Coordinated project drug screening
- Conducted pre-qualification of subcontractors and pre-bid, de-scope and preconstruction safety meetings
- Managed and implemented Owner and Contractor Controlled Insurance Programs
- As the Site Safety Manager and Superintendent achieved 127,000 man hours without a lost time incident for the LONZA construction project, Portsmouth, NH
- Implemented Bovis' Incident Injury Free Safety initiative from its inception in 2002 through its integration on projects, with contractor management and owners

April 1999— July 2001

Allied Insurance Brokerage

Jericho,, NY and Boston, MA

Assistant Vice President of Technical Services

- Managed, coordinated, and implemented Loss Control Services for Owner Controlled Insurance Program and construction companies
- Conducted risk assessments and prospect surveys for the underwriting department that included insurance coverage of Workers Compensation, General Liability, Completed Operations and Builders Risk
- Developed an provided EH&S training programs for clients and on-site personnel
- Assignments included OCIP with multiple site projects and a total value of \$2.2B
- Maintained a home based office

*Aug. 1992— April 1999
Aug. 1976 - July 1989*

*Wausau Insurance
Companies*

Burlington, MA

Senior Construction Loss Control Specialist

- Worked within the Loss Control Services department for both the New England Region and the home office of Wausau spanning all lines of coverage (Workers Compensation, General Liability, Completed Operations, Fleet, Builders Risk and Property
- Provided technical support to the underwriting, loss control, claims and sales departments as well as to insurance brokers
- Technical support included prospect and insured risk assessment with General Liability loss analysis, and written and audio-visual training programs
- Coordinated and conducted service for Owner Controlled and Contractor Controlled Insurance Programs from the prospect survey to the written programs
- Managed, coordinated and implemented safety services while acting as a liaison for the AEGIS/Wausau Alliance focusing on energy, utilities (gas and electric), Independent Power Producers, gas pipelines, oil and gas leasing and associated operations
- Provide loss control services to construction policy holders, including excavation, railroad/track, blasting, shoring and construction management
- Coordinated Policyholder Construction Safety Conferences with the Home Office Construction Loss Control Department

President and Senior Civil Engineer

- Operated an engineering company that provided engineering design and field services to residential and commercial property developers and single property owners
- Involved in local and state permitting including environmental
- Project coordination of permit process, plan development and meetings on local and state level
- Subdivision design including road, utility, storm water and wastewater design

Education

Degrees

University of Massachusetts

Amherst, MA

Bachelor of Science – Civil Engineering

Professional Certifications - Memberships

- Certified Safety Professional – CSP in Engineering Aspects
- Registered Professional Civil Engineering – Massachusetts
- American Society of Safety Engineers
- American Society of Civil Engineers
- Authorized OSHA 500 Construction Stands Out Reach Trainer
- OSHA 40-Hour Hazardous Waste Operations
- OSHA Alliance – Construction Safety Roundtable, Eastern Massachusetts
- Past member of the National Safety Council – Construction Safety Committee

Robert C. Campbell

Professional Experience

2003— Present

S&R Corporation

Lowell, MA

Project Superintendent

- Responsible for all job-site supervision of labor, equipment and subcontractors. Project owners included MHD, MBTA, DCAM, Local Municipalities and Private Owners
- Responsible for scheduling of all material deliveries and subcontractors
- Job-site engineering layout
- Review and enforce job-site safety policies
- Job quantity tracking

1995— 2003

B&E Construction

Stoughton, MA

Superintendent

- Over seven years of experience in all aspects of Civil Engineering
- Responsible for supervising company employees
- Scheduling subcontractors to perform their specific duties
- Order materials and equipment for specific projects
- Interact with Engineers to discuss scheduling and the manner to work will be executed
- Compile quantities of work completed so payment requisitions can be performed
- Layout for many aspect of bridges, roadwork and utilities
- Have a vast knowledge of plans and specifications for projects responsible for
- Take off of plans for estimating purposes to provide labor and material costs for projects
- Knowledge of Niche Bid2Win Software for estimating Mass Highway work

1987— 1995

Hackenson Corp.

Mendon, MA

Construction Worker

- Duties included framing construction for residential projects, installation of septic systems, roadway drainage and some asphalt work

Education

Degrees

1988 - 1990

Worcester Industrial Technical School

Worcester, MA

Certificate in Architecture and Construction

1990 - 1993

Wentworth Institute of Technology

Boston, MA

Bachelors of Science in Civil Engineering

Mark R. Wallis

Professional Experience

2008— Present

S&R Corporation

Lowell, MA

Project Manager

- Responsibilities include overall management of project staff, subcontractors and suppliers for bridge reconstruction projects for the Massachusetts Department of Transportation
- Route 134 over Rte 6 - Dennis, MA
- Gulf Road over Appongansett River – Dartmouth, MA
- Union Street Bridge over the Merrimack River – Lawrence, MA
- North Canal Bridge – Lawrence, MA

2004— 2009

P.A. Landers, Inc.

Project Manager – Plant Operations Manager

- Responsibilities include overall management of various construction projects in the retail development market and management of asphalt plant operations and maintenance
- Saxon Development – Colony Place – Plymouth, MA
- Registry of Deeds – Plymouth, MA
- P.A. Landers Asphalt Plant – Plymouth, MA

1998— 2004

Cianbro Corporation

Project Manager

- Responsibilities include overall management, subcontract negotiations buyout and owner relations on various construction project
- Vertical Lift Railroad Bridge over the Cape Cod Canal – United States Army – Corps of Engineers
- SEMASS Waste to Energy Facility – Rochester, MA
- Rhode Island Turnpike Authority – Newport/Pell Bridge – Newport, RI
- Massachusetts Highway Department – Calvin Coolidge Bridge – Northampton, MA
- Pennsylvania Power and Light LLC – Wallingford Energy Project – Wallingford, CT
- Connecticut Department of Transportation – Tomlinson Bridge – North Haven, CT

Human Resources Manager

- Responsible for the hiring, development and training of all employees of the Southern New England Region for the company

Superintendent

- Responsibilities include overall management of construction operations on a variety of construction project
- AMTRAK Northend Electrification Project – Boston, MA to New Haven, CT
- Friends of Post Office Square – Post Office Square Park and Garage – Boston, MA
- Massachusetts Water Resources Authority – Deer Island – North Main Pump Station – Boston, MA

Quality Control Manager

- MWRA Deer Island – Secondary Clarifiers – Boston, MA

Superintendent

- MBTA – Dudley Station Modernization – Boston, MA
- MBTA – South Station Transportation Center – Boston, MA
- O’Connell Building Co. – Marina Bay – Quincy, MA

Project Engineer/Field Engineer

- 745 Atlantic Avenue Parking Garage – Gilbane Building Company – Boston, MA
- Marketplace Center Parking Garage – Gilbane Building Company, Boston, MA
- Boston Commonwealth Pier – Gilbane Building Company – Boston, MA
- David Square to Harvey Street – Mass Bay Transportation Authority – Cambridge, MA

Education

Degrees

Maine Maritime Academy

Castine, ME

Bachelor of Science

Professional Certifications - Memberships

- United States Coast Guard – Third Mate Unlimited Tonnage (Expired)
- United States Naval Reserve – 1973 – 1977
- Commonwealth of Massachusetts – Construction Supervisor, Unlimited (current)
- City of Boston – Builder’s License, Class A, B and C (current)
- American Welding Society – Certified Weld Inspector (Expired)
- Heavy Equipment and Rigging Specialist – Federal Emergency Management Agency – Urban Research and Rescue Task Force (current)
- Captain – EMT – Plympton Fire Department (Retired)

Jeff Lewis, PE

Senior Project Manager

GAROFALO & ASSOCIATES, INC.

Qualifications



Mr. Lewis is a Project Manager with 30 years of experience in civil engineering projects related to bridge and building design. His experience includes bridge inspection and rating, the preparation of design computations, construction drawings and specifications, quantity take-offs, construction cost estimates, construction inspections, and evaluations of existing structures. His involvement ranges from initial preliminary design phases through the final construction phases. Mr. Lewis has been trained in LRFD design through National courses sponsored by the Highway Institute.

Significant Project Experience

Bridge Transportation Projects

- Smithfield Salt Storage Facility, Smithfield, RI** – Project Manager for design of a prefabricated concrete arch bridge over a stream.
- IR Improvements to Diamond Hill Road (Rt. 114), Woonsocket, RI** – Project Manager for design of repairs for an existing concrete arch bridge. Repairs consisted of new railings, headwalls and end posts.
- Conant St. Bridge, Pawtucket, RI** – Project Manager for a bridge replacement project of an existing 2 span through bridge with a prefabricated steel truss bridge.
- MHD Design Build – Route 3 North Transportation Project** – Responsible for the quality review of plans for over thirty bridges along Route 3 from Burlington to the New Hampshire border. The bridges were single and multi-span steel girder bridges
- Maine Department of Transportation** – Served as Project Manager of the preliminary plan design for replacing twin 12 foot diameter pipes with a single span bridge, preliminary design and development of criteria for a 180 foot long prefabricated snowmobile bridge.
- Biennial Bridge Inspection, Kansas City, MO** – Inspector for more than 300 bridges for the City of Kansas City. Types of structures included steel trusses, concrete arches, concrete culverts, and steel beam bridges.
- Connecticut Bridge Rehabilitation Program, Statewide, CT** – Bridge Liaison Engineer responsible for directing and supervising the operations of contracting engineers under contract to the Connecticut Department of Transportation. Bridge Engineer for the Construction Liaison Team responsible for resolving problems and issues during the construction of the rehabilitation projects.

Bridge Engineer for the inspection of approximately 30 bridges and preparation of reports used for determining the scope for final design. The bridges were also rated to determine the affects of replacing the existing bridge decks with new concrete decks.

Education:

- University of Missouri
B.S. Civil Engineering, 1980
M.S. Civil Engineering, 1987

Registration

- Registered Professional Engineer:
 - Rhode Island
 - Massachusetts
 - Connecticut
 - Maine
 - New Hampshire
 - Kansas

Professional Affiliations:

- American Society of Civil Engineers
- Boston Society of Civil Engineers



“Mr. Lewis is a Senior Project Manager for Garofalo and is in responsible charge of our firms Bridge Department.”

Bridge Transportation Projects

- Bridge Preservation/Betterment Program, Statewide, MA** – Project Manager for MHD Bridge Preservation/Betterment Program which provided bridge design, traffic management and roadway design elements for six bridge projects.
- Canoe River Bridge, Mansfield, Massachusetts** – Structural Manager for the design of a single span prestressed concrete beam bridge supported on integral abutments. The project was designed in seven weeks and included three stages of construction.
- Massachusetts Turnpike Bridge Inspections** – Structural Task Manager for the routine inspections of 12 multi-span steel girder bridges over the Mass Turnpike and the CSX Railroad in Boston.

 - Footprint Bridge Program, Statewide, MA** – Project Manager/Engineer for the Massachusetts Highway Department’s Footprint Bridge Program which provided bridge rehabilitation and replacement design services for seven single span bridges over streams, rivers and a railroad.
- Timber Bridges, Statewide, Massachusetts** – Project Manager for the design and plan preparation for four single span glue laminated timber bridges for the Massachusetts Highway Department. The bridges were designed for HS20 loads and ranged in span from 15 feet to 35 feet.
- On-Call Engineering Services, Massachusetts Highway Department** – Project Manager for an open ended contract, with the Massachusetts Highway Department for a variety of services. Specific design services provided as part of the on call services include: Bridge Rating, Truss Inspection, Analysis and Rehabilitation, Bridge Design and Detailing, Shop Drawing Review, Railroad Coordination
- Washington Street Bridge Rehabilitation, Boston, MA** – Project Manager for the design and plan preparation for the deck rehabilitation for the Washington Street Bridge over the Boston Extension (I-90) and Amtrak Railroad.
- Bridge Design, Various Locations** – Design Engineer for the design and preparation of a precast concrete box culvert structure with 186 foot long retaining walls at Anderson Road in Middlefield, Connecticut. Design Engineer responsible for the design and plan preparation of a four span rolled beam bridge in Hamilton, Illinois. Design Engineer responsible for the design of prestressed concrete beams for a multi-span viaduct in Charleston, South Carolina.



Stephen P. Crawford

Senior Project Engineer

GAROFALO & ASSOCIATES, INC.

Qualifications



Mr. Crawford is an experienced Senior Project Engineer in the design and rehabilitation of bridges and other transportation structures, encompassing restoration of several historic bridges, as well as complete bridge replacements.

Education:

- B.S. Civil Engineering, 1987
- A.S. Engineering Technology, 1981

Registration

- OSHA 10-Hour Training
- Federal Highway Administration, NHI Course 130055 Safety Inspection of In-Service Bridges

Significant Project Experience

Bridge Transportation Projects

- **Rhode Island Department of Transportation (RIDOT), 1R Improvements to RI Route 10, Providence & Cranston, Rhode Island** – Bridge field inspections and evaluations on the Mashapaug, Pontiac Avenue and the Frankfort Street Bridges, as well as the complete superstructure replacement of the Mashapaug Bridge with a four-span continuous prestress concrete superstructure, and the rehabilitation and seismic evaluation and retrofit of the Pontiac Avenue and the Frankfort Street Bridges.
- **RIDOT, Comprehensive Bridge Improvement Program, Group 4 Bridges** – Bridge field inspections and evaluations of the Conant Street, Union Village and the Branch River Bridges; as well as the multi-span superstructure and substructure replacement of the Conant Street Bridge in the City of Pawtucket, the single span superstructure replacement of the Union Village Railroad Bridge and the rehabilitation of the Branch River Bridge, North Smithfield.
- **RIDOT Maintenance Facility; Warwick, RI** – Design/build project consisting of structural and site design for a 72,000 sq. ft. municipal office and maintenance garage for the Rhode Island Department of Transportation. The project was implemented and partially funded by the Narragansett Bay Commission as part of the relocation of the existing RIDOT Maintenance Facility in Providence under their CSO Program.
- **Massachusetts Department of Transportation (MassDOT), Replacement of Curzon Mill Road over Artichoke River, Newburyport** – Replacing the existing superstructure with a new 40'-0" single span steel stringer and glue-laminated deck with timber railings within an historic district.
- **MassDOT, Rehabilitation of Old County Road over Conrail, Sandwich** – This project received a 1996 ACI Creative Use of Concrete Restoration Award. This project



Stephen P. Crawford

GAROFALO & ASSOCIATES, INC.

“Mr. Crawford is a Senior Project Engineer for Garofalo and has extensive experience in both Bridge and Building Design.”

Bridge Transportation Projects

involved rehabilitating a substandard 29'-0" historic plate girder bridge as well as stabilizing the existing abutments. To solve this unique situation, the new pre-stress concrete deck beam superstructure was used as a strut whereby propping the existing abutments. This new superstructure was placed within existing historic plate girders whereby allowing the historic plate girders to remain.

- **MassDOT, Rehabilitation of Bridge Street over Boston and Main and Central Vermont Railroad, Chester** — This project involved rehabilitating a historic substandard 95'-0" truss which resulted in replacing the deck, all the stringers, floor beams, and the entire bottom chord as well as modifying each abutment for complete bridge replacement.
- **MassDOT, Replacement of Old State Road over Conrail, Chester** — Replacing the existing superstructure with a new 59'-0" single span pre-stressed butted box beam superstructure utilizing and modifying the existing abutments.
- **Massachusetts Turnpike Authority, Route 146/ Massachusetts Turnpike Exchange 10a, Millbury** — Final design and development on construction plans, specifications and estimates for a three-span continuous, steel curved girder bridge.
- **MassDOT, DO12A, Central Artery/I-93 Massachusetts Avenue Interchange, Boston** — Assisted with the construction phase services for this \$165,000,000 interchange.



- **North Washington Street Bridge Repair, City of Boston** — Responsibilities included field inspection, design, plans, estimate and construction services.
- **Bridge Deck Reconstruction, GrangerChicopee; Interchange 4, West Springfield; Fairfield Street, Lee; Quarry Road, Lee; Blandford Road, Russell** — Responsibilities included the design, plans, estimate and construction services for the following bridges.
- **Massachusetts Bay Transit Authority (MBTA), Service and Inspection Facility** — Responsibilities included the design of the Dorchester Block Twin box culvert and design of a two story steel frame maintenance building.
- **MBTA, North Station Transportation Improvement Project** — Responsibilities included the design of a five-level, top-down construction underground concrete parking garage.
- **MBTA, Bridge Inspection Ratings** — Responsibilities included field coordination and inspection of assigned bridges and culverts along the New Hampshire Main Line and for submitting field reports and ratings reports.
- **MassDOT, Bridge Inspections and Ratings** — Responsible for inspection and ratings of various types of highway and pedestrian bridges.
- **Replacement of North Central Street Pedestrian Bridge over the MBTA and B&M Railroad, Peabody** — Replacing the existing single span pedestrian bridge with a 17.5 meter existing historic truss

which was relocated from the Town of Brimfield. The new site was slightly modified to accommodate the truss which was supported on concrete cantilever abutments.

- **MassDOT, White Archambo Road over the West Branch North River, Colrain** — Analysis and design for the replacement of existing bridge with a (22 meters) single span spread box beam with concrete deck supported on integral abutments on H-piles with splayed wingwalls. The new bridge structure spanned over the existing abutments which was kept in place as a flood and scour control device.
- **Replacement of Johnson Street Bridge over the MBTA and B&M Railroad, Peabody** — Replacing the existing single span bridge with a new 8 meter single span butted pre-stress deck beam superstructure supported on concrete cantilever abutments.
- **MassDOT, Replacement of Pine Street over Assabet River, Concord** — This project involved a complete bridge replacement. The new bridge consisted of a 74'-0" single span separate pre-stressed box beam superstructure supported on integral abutments.
- **RIDOT, Comprehensive Bridge Improvement Program Statewide - Group 6 Rehabilitation of Pocasset River Bridge No. 23; Cranston, RI** — Replacement of the existing superstructure with a 34' 6": single span plate girder, spanning the Pocasset River, supported on modified abutments with new pile supported wingwalls.



Deborah Loiselle, PE

Project Engineer



GAROFALO & ASSOCIATES, INC.

Qualifications



Ms. Loiselle's experience has encompassed the design of bridges, the engineering of roads and drainage facilities, and inspection and construction management. While utilizing AASHTO LRFD Bridge Design Specifications- 2007 4th Edition, designed single span to multiple span bridges, including all design aspects of the structure from bearing pads to abutments and piers. The bridge superstructures varied from steel I girders to steel tub girders to

prestressed concrete members. The civil design in her background has included highway interchanges to light rail corridors and land development projects. These projects all had drainage, road, utility, and grading aspects for which she engineered and produced plans.

The computer programs that she incorporates with design include: Conspan, RCPier, Autocad with Civil 3D, Microstation with In-roads, STAAD, Strudll, MDX, Excel, MathCad, HEC-RAS, and L-pile.

Significant Project Experience

Public Works Projects

- **Route 10 Guide Signing, RIDOT**— Reviewed structural foundation shop drawing and design calculations for complete replacement of guide signs and sign structures along 4.9 miles of RI Route 10 and US Route 6.
- **Beaman Brook Bridge, Winchendon, MA** — Modeled river and tributaries in HEC-RAS to develop the potential for scour for the 100-year and the 500-year storm event. Wrote Scour Evaluation.
- **RIDOT Sakonnet River Bridge, Tiverton, RI** — Structural Engineer responsible for pier and abutment design and plans for the 11-span, 9-pier bridge. Tasks for the superstructure design included the splice designs and computations for the steel tub girders for the main spans and the check of the prestressed members for the approach spans.
- **MassDot Perryville Road Bridge, Dudley, MA** — Designed prestressed box beams utilizing Conspan then ran the final structural hand computations that checked Conspan's output. Produced engineered designs for bearings, and return walls, and abutments.
- **RIDOT Union Avenue, Providence, RI** — Engineer who conducted computations for the steel stringers, splices, and diaphragms.
- **RIDOT Main Road Bridge, Tiverton, RI** — Responsible for structural design and detailing for return walls and abutments. Performed hand calculation checks for prestressed box beam superstructure.
- **RIDOT, Statewide Rhode Island Bridge Inspections** — Completed numerous inspections and wrote reports for eight of the inspected bridges.
- **California State Parks, Monterey, CA** — Directed three engineering consultants on three separate projects, a lighting project, a fire sprinkler project, and a sewer repair project, until the plans were complete. Inspected and managed the projects through 100% construction. Prepared calculations, plans, and specs to upgrade four parks that incorporated road, bridge, grading, drainage, retaining walls, and parking lot designs.

Education:

- University of Connecticut:
M.S. Structural Engineering, Candidate
- Worcester Polytechnic Institute:
B.S. Civil Engineering
- FHWA Safety Inspection of Bridges - 2009

Registration

- Registered Professional Engineer:
California, #C-64149
Colorado, #34245
Rhode Island, Pending

Professional Affiliations:

- National Civil Engineering Honor Society - Chi Epsilon



“Ms. Loiselle has diverse experience in the fields of civil and structural engineering that includes bridge design, site development and stormwater management,

Private/Commercial Projects

- **Broncos Stadium, Denver, CO** – Civil Engineer responsible for designing roads to encircle and connect to existing streets around new Bronco’s stadium. Engineered and designed plans for the upgraded highway interchange adjacent to the stadium.
- **Hillsboro Light Rail Extension, Portland, OR** – Civil Engineer for designing streets and drainage for affected areas around the new track alignments.
- **Land Development Project, Portland, OR** – Engineering services that generated plans for seven major residential communities which entailed engineering roads, over-all grading, designing utilities, and performing hydraulic analysis.
- **Southwest Corridor Light Rail Project, Denver, CO** – As Structural Engineer, conducted design calculations and assembled plans for LRT bridge crossing Iowa Ave. Calculations consist of bearing pads, wingwalls, and abutment design. Prestressed box beams comprise the superstructure. Performed retaining wall calculations and produced plans for walls throughout corridor.

For the 9-mile length of corridor, Engineer in charge of drainage design, this included inlets, storm sewer, culverts, channels, and ditches. Completed plans and profiles for utilities and public works needing relocation and/or redesign. Performed grading design and produced plans for park-n-rides, stations, maintenance facility, and Navajo Road redesign.

As Engineer, wrote drainage report for park-n-ride along Hwy. 285, including detention pond calculations. Engineered and produced plans for park-n-ride. Presented plans to agencies for approval.

Inspected construction of maintenance yard expansion, including utilities, street improvements, retaining walls, and track construction. Assist Construction Project Managed during the complete construction of the project.



Carla Maria Nunes

Structural Staff Engineer

GAROFALO & ASSOCIATES, INC.

Qualifications



Ms. Nunes is a Staff Engineer with six years experience of civil engineering projects related to bridge inspection and design. Her experience includes the preparation of design computations, construction drawings and specifications, quantity take-offs, evaluations of existing structures and construction phase services. Her involvement ranges from initial preliminary design phases through the final construction phases.

Significant Project Experience

Bridge Transportation Projects

- **Construction Phase Services; Peabody, MA** — Shop Drawing Review.
- **Barre:** Preparing plans, special provisions and estimate for the bridge superstructure replacement for Route 2 (Worcester Road) over the Prince River.
- **Buckland/Shelburne:** Preliminary load rating evaluation and rehabilitation design for Route 2 over the Deerfield River in the towns of Buckland and Shelburne, MA. The evaluation determined the rehabilitation design including deck replacement, structural steel and concrete repairs, safety improvements and construction staging.
- **Construction Phase Services; Barnstable, MA** — Prepared contract documents for two adjacent structures on Route 6 over Route 132 in the town of Barnstable, MA. The scope of the project included a wearing surface replacement, designing a continuous slab over the piers and eliminating the deck joint and concrete repairs.
- **Connecticut DOT, 1997 Statewide Bridge Rating Project, CT** — Staff engineer for capacity rating of highway and railroad bridges. The project consisted of live load carrying capacity analysis for steel bridges throughout the eastern part of Connecticut.
- **Connecticut DOT, Bridge Safety Program** — Served on inspection teams for routine and in-depth inspection for highway and railroad bridges. The two-year project included over 350 structures in the eastern half of the state and involved preparation of inspection reports, sketches, photographs and other details all according to strict state DOT guidelines.
- **NBC - RIDOT Maintenance Facility Headquarters** — Staff engineer for the design of the 80,000± square foot Maintenance Facility. Project consisted of designing a structural framing system for the structure while following the parameters set forth by the architect and owner.
- **RIDOT, Slatersville Stone Arch Bridge No. 273, Route 5 over Branch River, North Smithfield, RI** — Ms. Nunes served as the Staff Engineer on this project, which involved the widening of the historic two-span, earth-filled, stone masonry arch using prestressed concrete box beams.

Education:

- University of Massachusetts at Dartmouth
B.S. Civil Engineering, 1997
- Bristol Community College
A.S. Engineering Transfer, 1993

Registration:

- OSHA 10-Hour Training

- **Harris Avenue, Woonsocket, RI, RI-3R and Bridge Improvements** — Staff engineer for superstructure replacement and abutment modification/replacement of bridge over railroad lines. Project also included upgrade of vertical clearances and approach roadway.
- **Inskip Motors, Warwick, RI** — Staff engineer for the modification to an existing 40,000 square foot concrete masonry unit (cmu) building. Modifications were made to the existing structural systems to accommodate change in the floor plan of the existing building. Change in the floor plans included moving interior load bearing columns and providing new rough openings in exterior of the existing building.



Bridge Transportation Projects



Route 10 Improvements
Cranston, RI

- **West Warwick Treatment Facility, West Warwick, RI** – Staff engineer for the design of several industrial buildings to accommodate wastewater treatment operations. Buildings varied in size from approximately 3,000 square feet to 5,000 square feet.
- **RIDOT, Statewide Bridge Rehabilitation/Replacement Program, Group 11, State of RI** – Staff engineer for superstructure replacement and abutment modification/replacement of 3 bridges over railroad lines. Project also included upgrade of vertical clearances and approach roadways.
- **RIDOT, 1R Improvements to RI Route 10, Providence & Cranston, RI** – Ms. Nunes served as Staff Engineer on this project, which involved bridge field inspections and evaluations on the Mashapaug, Pontiac Avenue and the Frankfort Street Bridges, as well as the complete superstructure replacement of the Mashapaug Bridge with a four-span continuous prestress concrete superstructure, and the rehabilitation and seismic evaluation and retrofit of the Pontiac Avenue and the Frankfort Street Bridges.



West Warwick Treatment Facility



Roger Williams Ave Bridge
Cranston, RI



Philip M. Fusco, PE, PTOE

Senior Project Manager

GAROFALO & ASSOCIATES, INC.

Qualifications



Mr. Fusco is a Senior Project Engineer with over 24 years experience in the Civil Engineering field specializing in roadway transportation and infrastructure projects and management of infrastructure, utility and roadway reconstruction for **Garofalo & Associates, Inc.**, he is responsible for the design of state, municipal and private projects. He has managed projects related to the design of drainage systems and networks, and master plans, sewer, water and electric systems, roadway pavement design and management, roadway geometrics,

highway safety and roadway safety audits. His extensive experience in municipal public works and state agencies allows him to work with local municipalities in the management maintenance and inventory of various critical infrastructure. He is considered a leader in this field and has worked with a variety of federal, state and local agencies to accomplish project goals. He also assists communities with creating standards and specifications, guiding development projects and in-house design for various communities. His experience working on RIDOT projects has proven valuable to projects on a local level.

Significant Project Experience

Transportation Projects

- FEMA Townwide; West Warwick, RI** – Project Manager on Townwide FEMA infrastructure repair project. Coordinated with various agencies to secure funding and assist in deriving task scopes. Coordinated with RIDOT in the quantifying of projects for funding under the Federal Aide system roadway program with FHWA. Managed all aspects of project including verifying quantities and coordination in expanding scopes to include additional drainage concerns critical in the comprehensive system.
- Edgewood Traffic Calming Study; Cranston, RI** – Developed traffic calming alternatives and arterial capacity improvements to reduce neighborhood cut-through traffic and vehicle speeds in the Edgewood section of Cranston. Project included evaluation of existing traffic volumes and speeds along sixteen local streets, simulation of two signalized intersections, and preliminary design of a roundabout.
- Corridor Study Sockanosset Road; Cranston, RI**– Complete traffic study for 1.5 mile major collector/minor arterial roadway. Project included traffic analysis and simulation of 5 signalized intersections through a retail and commercial district. The project examined impacts on larger roadway network and alternatives to improve roadway capacity and promote improved progression.
- Improvements to Route 10 Niantic Avenue Intersection; Providence/Cranston, RI** – Preliminary intersection modifications
- Pedestrian Safety Study, Rhode Island College; Providence, RI** – Evaluated existing conditions at five crosswalks across the central campus artery connecting the dormitories with the main campus. Recommended short-term and long-term solutions to improve pedestrian safety and aesthetics, including

Education:

- University of RI: B.S. Civil Engineering

Registration:

- Registered Professional Engineer:
 - Rhode Island
 - Massachusetts
 - Connecticut
- OSHA 40-Hour Training
- Certified Professional Traffic Operations Engineer

Professional Affiliations:

- American Society of Civil Engineers (Past President)
- Institute of Transportation Engineer (President - RI chapter 2008-2009)
- Rhode Island Society of Professional Engineers



Transportation Projects (cont.)

- and geometric improvements to principal arterial interchange ramps. Design Study Report and capacity analysis and traffic corridor model.
- **Traffic Signal Modifications and Optimization; Providence, RI** – Updating and modification to 10 traffic signals located along 4 minor urban arterial corridors. Project included complete study, updating of equipment, timings, wiring and improved pedestrian actuation and emergency vehicle pre-emption.
- **Warwick Intermodal Station, T.F. Green Airport; Warwick, RI**—Project included complete Environmental Impact Statement and Design Study. detailing the complete impact to the surrounding area for a 1.0m square foot AMTRAK/Rental Car/MBTA station with direct connection to T.F. Green Airport. Project included modification to 2 miles of minor arterial corridor and geometric and traffic signal modifications to three intersections. Also structured parking circulation and Rental Car Quick Turn-Around design.
- **Improvements to Belmont Street , Route 9; Worcester, MA** – Geometric improvements to enhance access management including consolidating of driveways and intersection modifications. Other elements included parking management, closed loop traffic signal design with TMC video and actuation monitoring via fiber optic connection and optimization, Project Justification Report and Functional Design Report for 2.4 miles of major urban arterial.
- **Improvements to Interstate Route 195; Providence, RI** – Project Engineer for the design of 3.5 miles of Urban Interstate Highway. Tasks included capacity analysis, geometric design of “trumpet” interchange and service road interface, stormwater management, Design of city street intersections and traffic apparatus.
- **Memorial Boulevard Extension; Downtown Providence, RI**— Project Engineer for the design of 2 miles of major, urban arterial roadway through the heart of downtown Providence. Design included horizontal and vertical alignment, traffic signal design, closed loop traffic signal interconnect system
- **East Providence Industrial Highway; East Providence, RI** – Project Engineer for the design of over 5 miles of minor arterial along the East Providence Waterfront. Task included intersection design, geometric alignment (roadway and adjacent rail line), stormwater management, and traffic signal design.
- **Washington and Pontiac Branch,— West Bay Shared Use Path; Providence/Cranston/Warwick/ West Warwick, RI** – Project Engineer in charge of Phase I and II environmental, utility design and coordination and path preliminary alignment for 18 miles of shared use path.
- **Improvements Bishop Street; Framingham, MA** – Design of 2 miles of major local collector linking Route 9 to the industrial center. Tasks included geometric improvements, curbing and pedestrian access and traffic signal modifications.
- **Reconstruction of Church Street; West Warwick, RI** – Design of 2 miles of minor local collector roadway. Design includes horizontal and vertical alignment, pedestrian access and sidewalk improvements, traffic calming measures, drainage improvements and design of a four-approach roundabout.
- **Church Street; West Warwick, RI** – Prepared roadway reconstruction plans including horizontal and vertical alignment and a complete new drainage design.
- **Environmental Impact Statement, T.F. Green Airport; Warwick RI** – Project Engineer for landside roadway network optimization including US Route 1 corridor analysis, geometric design and integration of intermodal elements.
- **Reconstruction of Natick Avenue; Cranston, RI** – Project Manager for project consisted of improvements to vertical and horizontal alignment drainage and stormwater management, roadway safety counter measures and wetland permitting for 3.5 miles of rural major collector roadway.
- **Maritime Way/Jones Road; North Kingstown, RI** – Design and permitting services for the development of a new 2,200ft roadway to service the Narragansett Bay Terminal Facility and Seaports, as well as allow access to approximately 50 acres of existing property for future development. Also included was rehabilitation of 3,800 lf of existing Jones Road that will connect new Cross Park Drive to the Terminal Facility. Additional work included is extension/relocation of water and sewer mains, addition of LID drainage system with water quality ponds and permitting through CRMC including restoration of a coastal marsh.



Christine Ann Palmer, PE, PTOE

Senior Project Engineer

GAROFALO & ASSOCIATES, INC.

Qualifications



Ms. Palmer has over twenty years of experience in the transportation and traffic engineering fields. Her work includes the design of roadway reconstruction and rehabilitation projects in both urban and rural settings. These projects range from the complete reconstruction of arterials, including drainage and intersection geometric and signalization improvements, to pavement rehabilitation projects. Ms. Palmer's expertise includes the evaluation and design of

transportation systems utilizing the latest computer technologies and programs including, Softdesk - Land Development, AutoCAD, SYNCHRO, VISSIM and HCS, and the design and implementation of traffic signal systems from isolated intersections to closed-loop coordinated traffic signal systems for major urban arterials.

Significant Project Experience

Transportation Projects

- Reconstruction of Church Street; West Warwick, RI** – Lead design engineer for the development of construction plans and contract documents for the reconstruction of this suburban collector roadway. Proposed improvements included horizontal and vertical alignment modifications, installation of a new drainage system and pedestrian access improvements.
- 1R Improvements to Diamond Hill Road; Woonsocket, RI** – Preparation of construction plans and contract documents for 2.2 miles of roadway rehabilitation on Diamond Hill Road (Route 114). Proposed improvements include curb and sidewalk replacement, pavement rehabilitation, signing and striping, and traffic signal upgrades at eight intersections.
- 1R Improvements to Route 91; Westerly, RI** – Preparation of construction plans and contract documents for 1.3 miles of roadway rehabilitation on Oak Street and Bradford Road (Route 91). Proposed improvements include curb and sidewalk replacement, pavement rehabilitation, signing and striping, and installation of a new traffic signal at the Tower Street/Route 91 intersection.
- 1R Improvement Program - Mt. Pleasant Avenue and Public Street; Providence, RI** – Preparation of a Traffic Signal Evaluation Report and design of signalization improvements at five signalized intersections.
- Improvements to Route I-195 - Contract 6A; Providence, RI** – Project manager for the preparation of construction plans and contract documents, and right-of-way plans and condemnation plats for roadway improvements on Route I-195 associated with the relocation of Route I-195.

Education:

- Old Dominion University:
B.S. Civil Engineering
Graduate Studies in Civil Engineering

Registration:

- Registered Professional Engineer:
Rhode Island
Massachusetts
- Registered Professional Traffic Operations Engineer

Professional Affiliations:

- Women's Transportation Seminar - RI Chapter President
- Institute of Transportation Engineers



Christine Ann Palmer, PE, PTOE

GAROFALO & ASSOCIATES, INC.

“Ms. Palmer has been certified as a Professional Traffic Operations Engineer and is currently President of the Women’s Transportation Seminar, RI Chapter.”

Transportation Projects

- Old Plainfield Pike Resurfacing; Foster, RI** – Project manager for the preparation of construction plans and contract documents that included pavement reconstruction, guardrail rehabilitation, and signing and striping modifications for this rural collector.
- State Traffic Commission - Contract 3; Tiverton, RI** – Analysis and conceptual design of a roundabout at the intersection of Stafford Road, William S. Canning Boulevard and Hurst Lane.
- Sakonnet River Bridge Replacement; Portsmouth/Tiverton, RI** – Project manager for the preparation of drainage improvements and utility relocations on Route 24 and several local streets in Portsmouth and Tiverton Associates with replacement of the Sakonnet River Bridge.
- Crosswalk Enhancement Project; Chelsea, MA** – Preparation of conceptual plans for pedestrian safety enhancements at several crosswalk locations that did not meet the MUTCD warrants for a standard pedestrian signal.
- Greendale Avenue Pedestrian Crossing; Needham, MA** – Project manager for the preparation of construction plans and contract documents for a high visibility pedestrian crossing at St. Sebastian’s School.
- On-Call Traffic Engineering Services; Wellesley, MA** – Traffic engineering services including traffic signal design, traffic calming evaluations, parking studies, pedestrian safety evaluations and improvements, roadway corridor studies, and peer reviews.
- Center Street Extension/Seymour Street Reconstruction; Pittsfield, MA** – Preparation of an Environmental Impact Statement (EIS), construction plans and contract documents, and right-of-way plans and condemnation plats for this urban arterial on a new alignment. The roadway extension required demolition of eight residential dwellings and significant land acquisition.
- Boston Road/Route I-495 Ramps Intersection Improvements Project; Westford, MA** – Preparation of construction plans and contract documents that included a closed-loop traffic signal system to provide temporary mitigation at this congested interchange.
- Downtown Center Streetscape Improvements Project; Shrewsbury, MA** – Project manager for the preparation of construction plans and contract documents that included traffic signal reconstruction and streetscape enhancements for this arterial roadway located within a National Register Historic District.
- Main Street Roadway Improvements and Streetscape Enhancement Project; Reading, MA** – Project manager for the preparation of construction plans and contract documents that included traffic signal, pedestrian and roadway improvements that carefully balanced the transportation needs with the historic character and economic vitality of Downtown Reading.
- Shrewsbury Street Roadway Improvements Project; Worcester, MA** – Project manager for the preparation of construction plans and contract documents that included traffic and pedestrian safety improvements and streetscape enhancements for this urban arterial.
- Downtown Streetscape Improvements Project; North Attleborough, MA** – Preparation of construction plans and documents that included sidewalk reconstruction and streetscape improvements along South Washington Street. The project was funded with Community Development Block Grant (CDGB) funds. Numerous design alternatives were required to maximize the benefits of the grant and ensure adequate funds would be available for construction.
- Central Street (Route 135) Improvements Project; Natick, MA** – Preparation of construction plans and contract documents for the reconstruction of Route 135 from Wellesley to Framingham, with extensive streetscape and intersection improvements in the downtown are. In addition to roadway and signalization improvements, the project included a complete streetscape amenity package featuring sidewalks with brick accent strips, neckdowns, brick crosswalks and period street lighting.
- Reconstruction of Warwick Avenue; Warwick, RI** – Preparation of construction plans and contract documents, and right-of-way plans and condemnation plats for this roadway reconstruction project.
- Cranston Modified 3R and Roadway Resurfacing Project; Cranston, RI** – Preparation of construction plans and contract



Christine Ann Palmer, PE, PTOE

GAROFALO & ASSOCIATES, INC.

documents for roadway improvements that included pavement rehabilitation, curb and sidewalk replacement, and minor geometric improvements.

- **Reconstruction of Route 5; Warwick/Cranston, RI**—Preparation of a Design Study Report and conceptual engineering design that included a single point urban interchange at the Route 5/Route 113 intersection.
- **Review and Modification of the Rhode Island Department of Transportation Standard Details** — This project included revising more than 250 standard details for the Rhode Island Department of Transportation. The details were thoroughly reviewed and discussed with department staff to ensure they were consistent with current regulations and construction practices, ADA requirements, and environmental regulations.
- **Reconstruction of Washington Street and Central Street; Wellesley, MA** — Preparation of a master plan and development of construction plans and contract documents that included an interconnected traffic signal system, pedestrian safety improvements and streetscape enhancements for this multi-phase construction project.
- **Franklin Street Roadway Improvements Project; Framingham, MA** — Project manager for the development of preliminary plans and estimates for the reconstruction of this urban arterial roadway.
- **Harvard Street Improvements Project; Brookline, MA**—Preparation of construction plans and contract documents for this urban arterial that included and interconnected traffic signal system, pedestrian safety improvements and streetscape enhancements.
- **Jackson Road Reconstruction Devens Commerce Center; MA** — Conceptual design of a new four-lane divided arterial that services as the main entrance into the Devens Commerce Center. Preparation of construction plans and contract documents that included a new drainage system and design of BMPs to mitigate stormwater runoff and water quality impacts for Phase I.
- **Stormwater Management Improvements at Scarborough Beach; Narragansett, RI** — Hydraulic testing and bacteria removal effectiveness testing on the anti-microbial filter material used for the stormwater management improvements at Scarborough Beach. The project scope also included design of a retrofit filter system for three of the outfall locations and follow up testing to determine its effectiveness.
- **Stormdrain Retrofit Demonstration Project - Outfall W6; Providence/Johnston, RI** — Preparation of construction plans and contract documents for installation of stormwater management BMPs including water quality ponds and an infiltration trench at the Route 6/Killingly Street interchange.



Matthew W. Cote, PE

Project Engineer/Construction Manager

GAROFALO & ASSOCIATES, INC.

Qualifications



Mr. Cote is currently a Senior Project Engineer with *Garofalo & Associates, Inc.* with over twelve (12) years experience in the civil engineering field. Mr. Cote has a wide variety of professional experience in the preparation of water and sanitary sewer plans, roadway design and site plans for commercial and residential projects including geometric layout, drainage and utility designs, stormwater management, soil evaluations, septic system designs and environmental permitting.

Education:

- University of MA, Dartmouth
B.S. Civil Engineering

Registration

- Registered Professional Engineer:
Rhode Island
Massachusetts
- OSHA 10-Hour Training

Significant Project Experience

Site & Infrastructure Projects

- **Read School House & Flat River Road Transmission Mains; Coventry, RI**— Design and Construction Management of 2.5 miles of 16 to 20 inches of water transmission main and 12 drain lines to service a future water tank located in the Town of Coventry for KCWA.
- **Salt Storage Facilities, Various Locations Throughout Rhode Island** — Site design layout, including watershed analysis, drainage design, utility coordination and wetland permitting for salt storage facilities within Rhode Island for the RI Dept. of Transportation.
- **Rhode Island Resource Recovery Corp., Johnston, Rhode Island** — Site design for new “Recover Mat” Facility. Participated in watershed analysis and drainage design (including existing soil evaluations) and coordination with architectural and electrical consultants.
- **Home Depot, Johnston, Rhode Island** — Design of roadway alignment/configuration for proposed access roadway. Coordinated with contractor and provided support for field revisions.
- **Evergreen Park; Middletown, RI** — Project included roadway reconstruction plans; new sewer design and upgrade of existing sewer system; new drainage design with subdrain to reduce groundwater damage to road pavement; construction estimation and specification development and construction coordination/supervision.
- **Slate Hill Farm Infrastructure Improvements; Middletown, RI** — Design and construction inspection of 6,000 LF of new water, sewer and drainage systems for a 1960’s subdivision including complete roadway restoration.
- **Church Street** — Prepared roadway reconstruction plans including horizontal and vertical alignment and a complete new drainage design.



Transportation Projects



Salt Storage Facility
Scituate, RI

“Mr. Cote has diverse experience in civil engineering including transportation, site design and utility infrastructure improvements.”

- **West Main Road Sidewalk Improvements; Middletown, RI** — Design and construction of 0.5 miles of new concrete sidewalk along Route 114 to improve pedestrian safety for the Town of Middletown.
- **Improvements to Post Road, North Kingstown, Rhode Island** — Redesign of an existing roadway intersection that includes a new traffic signal, replacement of the existing drainage system and upgrading of existing utilities. Other responsibilities included extensive right-of-way and wetland permitting.
- **Improvements to Aylesworth Avenue, Woonsocket, RI** — Preparation of roadway reconstruction plans including repair to drainage structures, signing & striping and wetland permitting.
- **Improvements to Conant Street, Pawtucket, RI** — Preparation of roadway reconstruction plans including replacement/relocation of drainage structures, grading, intersection design, profiles, cross-sections and signing & striping.
- **New London Avenue, West Warwick, RI** — Preparation of roadway reconstruction plans including relocation and repair of existing drainage structures, grading, profiles, cross-sections, utility coordination, signing & striping.
- **River Point Enhancement, West Warwick, Rhode Island** — Design of a welcome center gateway to the River Point Park for the Town of West Warwick along Hay Street and Junior Street that includes new roadways, sidewalks, drainage systems, landscaping improvements and permitting. Other site amenities include new parking lots, traffic controls and stormwater management improvements for the Horgan School.
- **Improvements to Route 10 - Contract 2; Providence & Cranston, Rhode Island** — Preparation of highway design improvements including, replacement of drainage structures, signing and striping for the Rhode Island Department of Transportation.
- **Warwick Neck Avenue; Warwick, RI** — Design of 2.4 miles of roadway restoration that included new sidewalks, signage, striping, pavement resurfacing, drainage improvements and permitting for the City of Warwick.
- **MassHighway Department - Bridge Rehabilitation Program (Various sites)** — Roadway realignment and rehabilitation/reconstruction in coordination with bridge rehabilitation programs. Pavement design and layout, drainage configuration, traffic management during construction and guardrail placement.
- **Quonset Development Corp., North Kingstown, Rhode Island** — Design of “Executive Park” industrial subdivision. Roadway alignment, watershed analysis, drainage system design and stormwater mitigation.
- **Providence 1R Contract 1 & 4; Providence, RI** — Roadway resurfacing project for Providence included construction estimation and construction coordination.
- **Townwide Street Improvements; West Warwick, RI** — Project included oversight of rehabilitation/reconstruction of 15,000 FT ± of roadways in West Warwick, also included was construction estimation and specification development.

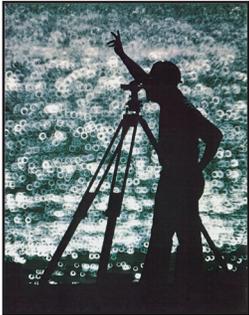


Samuel A. White, Jr., PLS

Vice President of Survey

GAROFALO & ASSOCIATES, INC.

Qualifications



Mr. White is a Professional Land Surveyor with over 30 years experience in the Land Surveying field. At *Garofalo & Associates, Inc.*, he is responsible for the direction of the Surveying Department, the day to day operations of the field crews, and all computations and calculations for public and private projects. Also, Mr. White is responsible for the drafting of all survey related plans, scheduling and coordination with clients with respect to the surveying

Significant Project Experience

Public Works Projects

- **NBC Combined Sewer Overflow Project - Phase II; Middletown, RI** – High accuracy H/V GPS network control, design GPS network, apply constrained adjustment calculations, calculations for mapping control and prepared final reports.
- **RIDOT Maintenance Facility, Warwick RI** – Property survey and topography for design
- **Statewide Salt Storage Facilities, Various Locations, RI** – Horizontal and vertical control for aerial mapping for six (6) sites throughout RI
- **Pease Air Force Base, Pease N.H.** – Construction layout of 300' x 3 mile runway
- **Route 10 Improvements, Cranston and Providence, RI** – Traverse, location, aerial mapping for design
- **Post Road Reconstruction, North Kingstown, RI** – Traverse, location, aerial mapping for design
- **Bald Hill Road Reconstruction, Warwick, West Warwick, RI** – Traverse, location, aerial mapping for design
- **Harris Avenue, Woonsocket, RI** – Traverse, location, elevations, and aerial mapping for design
- **Comstock Parkway, Cranston, RI** – Traverse, location, aerial mapping for design
- **Modified 3R Program, Westerly RI** – Traverse, location, aerial mapping for design
- **Route 7, Smithfield, RI** – Traverse, location, aerial

mapping for design

- **Narragansett Bay Commission** – G.P.S. for aerial mapping
- **Amtrak Northeast Corridor Rail Improvements** – Topography, profiles and alignment
- **Various Streets, Fall River, MA** – Traverse, location layout



RIDOT Maintenance Facility
Lincoln, RI

Education:

- Naval School of Construction

Registration:

- Registered Professional Surveyor:

Rhode Island #1781
Massachusetts #35045
Connecticut #15165

- OSHA 10-Hour Training
- Class II ISDS Designer
- AMTRAK On-Track Safety for Contractors

Professional Affiliations:

- Rhode Island Society of Professional Land Surveyors
- Connecticut Association of Land Surveyors
- National Council Engineering Examiners
- Massachusetts Association of Land Surveyors
- New York Association of Land Surveyors
- American Congress on Surveying and Mapping



Private/Commercial Projects



**Sea Fresh
North Kingstown, RI**

- **RIEDC, North Kingstown, RI** – On-call survey services at more than thirty (30) sites and new roadways
- **Sea Fresh, North Kingstown, RI** – Property survey and topography for an existing conditions plan and construction layout
- **Maro Display, North Kingstown, RI** – Property survey and topography for an existing conditions plan and construction layout
- **Home Depot, Providence and Johnston, RI** – Property survey and topography for an existing conditions plan and construction layout
- **Button Hole Golf Course** – Boundary, topography, wetlands, and construction layout
- **Bradley Hospital, RI** – Boundary, topography and wetlands
- **Numerous Subdivision, RI** – Prepare preliminary and final engineering documents for various subdivisions in Rhode Island
- **Lewis Farm Cluster Housing and Aspen Estates, Coventry, RI** – Prepare preliminary and final engineering documents for subdivisions in Rhode Island
- **White Oak Estates, Glocester, RI** – Prepare preliminary and final engineering documents for subdivision in Rhode Island
- **Sweet Valley Estates, Hopkinton, RI** – Site construction and field layout survey
- **Coventry Stop & Shop Supermarket** – Traverse, location, topography, construction layout

“Mr. White has been managing and surveying private & public related projects since 1978.”



**Buttonhole Golf Course
Providence, RI**



HENRY J. SOARES III, P.E.

Mr. Henry Soares is a Senior Structural Engineer for Thielsch Engineering in the Construction and Engineering Services Department. He has over 7 years of progressive experience in many phases of civil engineering including rough and finish construction, building layout, permit processes, inspection, surveying, bridging and structures.

Prior to joining Thielsch Engineering, Mr. Soares was a Project Engineer with RT Group, Inc. providing design and drafting for various civil, structural, and marine engineering projects. This design and drafting included all required calculations and plans for building permits on a variety of different projects. In addition, Mr. Soares also provided surveying and environmental monitoring services for various clients.

In the six years he worked as a project engineer/ field construction inspector, Mr. Soares performed inspections for various construction phases including: test pit analysis, geotechnical boring analysis, structural steel, reinforcement steel, fire proofing, soil, trans mix and pre-cast concrete, mortar, bricks, concrete masonry units (CMU), and grout. His experience gives him familiarity with renovations and capital projects in light and heavy construction. Some of Mr. Soares' projects included school additions, the Providence River Interceptor, the Newport Naval Academy, the State House renovations, the Providence Public Safety building, the Kent County Courthouse, the Rhode Island Traffic Tribunal and the West Warwick Waste Water Treatment plant.

Since joining the Thielsch Engineering Construction Services, Mr. Soares has been involved in various construction phases including structural steel, reinforced concrete structures, fire-proofing, soils, mortar, grout and special inspections. He was directly involved with the Route 295 Project in North Smithfield, Rhode Island, renovations for Foxwoods Resort Casino in Mashantucket, Rhode Island and the Raymour & Flannigan furniture store in Warwick, Rhode Island. He has done inspections and quality control for Boston Sports Club in Providence, Rhode Island and House of Scrimshaw in Newport, Rhode Island.

He is experienced in documenting contract activities as well as the follow-up procedures needed to meet all required specifications for foundations, soils, sewers, drainage, earthwork, paving, reinforced concrete structures, pile construction, structural steel and utility installation.

Mr. Soares received a Bachelor of Science degree in Engineering from Roger Williams University and is a registered Professional Engineer (P.E.) in the State of Rhode Island as well as a certified American Welding Society welding inspector (CWI) and is OSHA 30 Safety Training Qualified. He is also an active member of the International Code Council (ICC), a certified Bridge Safety Inspector in accordance with the National Highway Institute and holds a certification from the Northeast Transportation Training and Certification Program as a Quality Assurance Technologist.

NEIL KARRAZ

Mr. Neil Karraz is a Structural Engineer for Thielsch Engineering in the Construction and Engineering Services Department. He has over 20 years of progressive experience in all phases of mechanical and civil engineering including project management, rough and finish construction, estimating, scheduling, project coordinating, building layout, fabrication, inspection, permit processes, surveying, bridging and structures.

Prior to joining Thielsch Engineering, Mr. Karraz held several positions, the most recent of which was in Florida as a Project Manager with Bailey Bishop & Lane providing estimates and cost tracking for pavement and road design. The estimates included all the required calculations for sewer, drainage, guardrails, traffic systems, pavement design, sidewalks and inspections.

Mr. Karraz was a site coordinator and survey specialist at AMGEN where he worked with state-of-the-art GPS systems and Auto CAD programs. In this position he was involved with the Dig-Safe Permit Program which dealt with underground utilities, sewer, storm water, electric conduits, clean water, fire lines, and traffic assemblies. For the RI Resource Recovery Program he worked on collecting gas line data and land development.

With his experience in the mechanical and industrial fields, Mr. Karraz was a production supervisor for Glass and Printing Company sponsored by DuPont Company where he performed scheduling, troubleshooting, quality control, shipping and handling, supervision and maintenance duties.

In the five years he worked as a field building inspector, Mr. Karraz performed inspections for various construction phases including: structural steel, reinforcement steel, fire proofing, soil, trans-mix and pre-cast concrete, mortar, bricks, CMUs, and grout. His experience gives him familiarity with renovations and capital projects in light and heavy construction projects. Some of Mr. Karraz's projects included a school addition, the FPL power plant in Johnston, the Boston artery/tunnel, the Newport Naval Academy, Otis Air Force Base, the Providence Public Safety building, and the West Warwick treatment plant. He is experienced in documenting contract activities and the follow-up procedures that are needed to meet all required specifications for foundations, soils, sewers, drainage, water, fire proofing, reinforcement and structural steel.

Mr. Karraz received BS and MS degrees from the University of Rhode Island in Mechanical Engineering and Civil Environmental/Structural Engineering. He served as a Lieutenant in the Air Force. During his career he has attended seminars and courses at Brown University, the University of Rhode Island, Rhode Island School of Design, New England Tech and Dresden University.

INSPECTION PERSONNEL	CERTIFICATION
Henry J. Soares III, PE	<ul style="list-style-type: none"> • State of Rhode Island Professional Engineer • NHI Safety Inspection of In-Service Bridges • NETTCP Quality Assurance Technologist • AWS - Certified Welding Inspector • AMTRAK Safety • MBCR RWP • OSHA 30
Neil Karraz	<ul style="list-style-type: none"> • MSCE Structural Engineer • OSHA 10 • ASWA 40 • AMTRAK Safety • Project Management Professional
Wendy Kerkhoff	<ul style="list-style-type: none"> • NICET Level II - Asphalt • NICET Level II - Concrete • NICET Level II - Soils • NICET Level II - Highway Materials • ACI Grade I • Troxler HAZMAT • MBCR RWP • AMTRAK Safety • OSHA 10
James Heywood	<ul style="list-style-type: none"> • NICET Level II - Asphalt • NICET Level II - Concrete • NICET Level II - Soils • OSHA 10 • Troxler
Jason Rapose	<ul style="list-style-type: none"> • ACI Grade I • NICET Level I - Asphalt • NICET Level I - Concrete • NICET Level I - Soils • OSHA 10 • AMTRAK Safety
Jason Mills	<ul style="list-style-type: none"> • Radiography Level II • Magnetic Particle Level II • Visual Inspection Level II • Liquid Penetrant Level II • Ultrasonic Testing Level II • Phased Array • AMTRAK Safety • OSHA 10

INSPECTION PERSONNEL	CERTIFICATION
Wayne Beaumier	<ul style="list-style-type: none"> • OSHA 30 • Troxler Safety • Army Corps of Engineers - QCM • AMTRAK Safety
Robert Smith	<ul style="list-style-type: none"> • MBCR RWP
Tim Bynum	<ul style="list-style-type: none"> • MBCR RWP
Rafael Polanco	<ul style="list-style-type: none"> • MBCR RWP

Additionally, Thielsch Engineering has approximately 30 full-time personnel who qualify as ASNT Level II Magnetic Particle, Liquid Penetrant and Visual Examination Inspectors who could perform the weld inspections. Seven of these individuals are also American Welding Society (AWS) Certified Weld Inspectors (CWI).

Furthermore, Thielsch Engineering has a nondestructive testing department where radiographic and ultrasonic inspections are performed by numerous qualified personnel.

David F. Arnold
President Arnold Engineering Company
20 Muron Avenue
Bellingham, MA 02019

JOB EXPERIENCE

1970 - 1972	Computrol Corporation - Needham, MA Systems Coordinator / Scheduling Consultant
1972 - 1974	Systematic Associates, Inc. - Needham, MA Scheduling Consultant
1974 - Present	Arnold Engineering Company, Inc. - Bellingham, MA President and CEO

EDUCATION

Graduated Bellingham Memorial Junior Senior High School
Bellingham, MA - 1969

Graduated Northeast Institute of Industrial Technology
Boston, MA - 1970

Attended Evening School: Northeastern University and Wentworth Institute
Boston, MA - 1970-1975 (Civil Engineering)

ORGANIZATIONS

Member of good standing American Society of Civil Engineers. (Member since 1999)

CONSTRUCTION INDUSTRY INVOLVEMENT:

SCHEDULING

MBTA Miscellaneous projects including construction of the Southwest Corridor Stations and Track. Hospitals new and renovation. All types of buildings high-rise and low-rise, roads and bridges, sewer and water treatment plants, schools, prisons, courthouses, work spans United States from East Coast to West Coast also including work in Russia, Africa and Turkmenistan. Involvement with RIDOT scheduling many roads and bridges throughout the state. Involvement

with MADOT being a scheduling consultant to various contractors on multiple roads and bridges currently being built by the State.

PROJECT MANAGEMENT

Olin Chemical Research Facility	Project Manager to the Owner to oversee all the construction.
Copley Place Boston, MA	Owner's Representative
United Shoe Building Boston, MA	Owner's Representative
Three projects one of a new Fire Station and one of a new Library and Senior Center Bellingham, MA	Served as a part time Clerk of the Works & Owner's Representative.
Speno Rail	Managed the building of two rail grinding trains.
Baker Systems	Involved with building metal plating equipment for Boeing Aircraft.

CONSTRUCTION MANAGEMENT

Riverbend Condominiums	Construction Manager for the six million dollar mill conversion project.
DCI Building Company	Worked on miscellaneous projects throughout the Hartford, Connecticut area as well as the Chase Office Tower (twenty-five stories) in New Haven, Connecticut.
B & M Railroad	Oversaw and coordinated all construction projects to upgrade the railroad for a period of four years.
Haul Road Bridge, Boston, MA Central Artery Project	Was hired by Cardi Corporation to take over project administration of the project.
Chemical Research Facility Cheshire, CT	Construction Manager working in unison with Olin Chemicals in-house staff. \$15 million project completed in nine months.
129 Robbins Road Watertown, MA	Addition and renovation to residential property, Watertown, Massachusetts. Was hired by owner of home based on lawyer's recommendations due to the fact a second contractor was involved with the project.

DESIGN BUILD EXPERIENCE

David Arnold/ Arnold Engineering Company has been involved with thousands of individual projects dealing with scheduling and working directly for contractors as well as owners. The design build aspect of any given project is quite different than using a set of plans and specifications to begin with.

A design build coordination effort takes into account the time frame required to develop a design allowing enough time to actually construct the bridge/ road/ building that needs to be built once the design has completed. It is quite important to be aware with the design criteria and the amount of resource allocation necessary to complete this design allowing the contractor enough time to actually perform the construction. Arnold’s vast experience in performing these design build projects is a major factor in completing the design as well as constructing on time and within the budget allocated.

The following is a list of design build projects that Arnold is currently working on, has worked in the past and projects that are pending which might or might not happen depending on the award.

Current Design Build Projects

Bridgewater Land Port of Entry
U.S. Customs and Border Protection
Bridgewater, ME

U.S. Land Port of Entry
Whitlash, MT

U.S. Land Port of Entry
Forest City, ME

U. S. Land Port of Entry
Pine Creek, MN

U.S. Land Port of Entry
Sarles, ND

United States Land Port of Entry
Van Buren, Maine

U.S. Land Port of Entry
Hannah, ND

United States Navy.
Maritime Subsurface Sensor Operations
Newport, RI

Pending Design Build Projects

Design/Build Corpus Christi
Border Patrol Station
Corpus Christi, TX

Design/Build Border Patrol Station
U.S. Customs and Border Protection
Sandusky, OH

Completed Design Build Projects

United States Navy
Building P – 101V
Newport, RI

Navy Supply Corps. School - NSCS
Newport, RI

**ELLEN K. O'BRIEN, C.G. P.E.
PROFESSIONAL PROFILE**

Tel. (207)377-8043

**Email. Ekobrien@fairpoint.net
ekobrien@northstarhydro.com**

Certifications

Certified Geologist - State of Maine #245

Professional Engineer - State of Maine #7945

Professional Hydrologist - American Institute of Hydrology #888

Education

Northeastern University: M.S.C.E., Environmental Engineering/Water Resources, 1984

University of New Hampshire: B.S., Hydrology, *summa cum laude*, 1976

Employment History

1994- Present. **President, CEO, Northstar Hydro, Inc., Winthrop, Maine.** Private Consultant specializing in engineering applications for surface-and ground-water hydrology and hydraulics of inland and coastal waters: analysis and modelling - rivers, bridges, dams, stormwater, flooding. Responsible for all business operations, including marketing, book keeping, financial records, office management, client contact, registrations, etc. as well as professional services.

1987-1994. **Project Manager/ Senior Hydrologist.** Acheron Engineering Services, Winthrop, Maine. Responsible for surface- and ground-water hydrologic and hydraulic investigations for various projects, including project oversight. Management of eleven coastal flood insurance studies in northern Maine involving hydrology and hydraulics of tidal systems. Other projects include dam investigations and hydrogeologic and contaminant investigations.

1982 -1986. **Private Consultant, Hydrology, Mechanic Falls, Maine.** As private consultant, conducted Flood Insurance Studies for inland and coastal systems, tidal flooding analyses for several proposed coastal developments, design review of stormwater management systems for several proposed coastal developments and numerous subdivisions and developments, dam investigations, water system evaluations, and hydrogeologic studies.

1979-1983. **Project Manager/Project Engineer, PRC Engineering/Frederic R. Harris, Boston, MA.** Management of various water resources projects involving hydrology and hydraulics of freshwater and tidal systems, and their response to transient conditions, including the application of computer modeling techniques.

1976-1979. **Hydrologist, PRC Engineering/Frederic R. Harris, Boston, MA.** Responsible for all hydrologic/hydraulic analyses for the water resources department.

Teaching Experience

1987-1992. **Bates College, Lewiston, Maine, Lecturer, Geology Department -** Courses included Surface Water Hydrology and Ground Water Hydrology.

Computer Modeling Experience

TR55, TR20, Hydrocad, HECRAS, HECHMS, GeoHMS, GIS, BOSS SMS, 2-d coastal models on Stormsurge and Northeaster/Hurricanes, Quick Dambreak, RUNUP, WHAFIS

Affiliations

American Institute of Hydrology

Geological Society of Maine

American Society of Civil Engineers, and Maine ASCE, Board Member, 3 years

Public Service

Maine Chapter ASCE, Board Member, 2009 to present

Maine Chapter, ASCE, Infrastructure Report Card Section Leader

Board of Education, 1996-2006, Chair 2001, 2002, 2005, 2006, Vice Chair, 2003, 2004
Winthrop, Maine

Habitat for Humanity, October 2006, St. Bernard Parish, New Orleans, LA

Trip Leader, LowerNine.org rebuilding project in New Orleans, organized group of 30 volunteers for week long rebuilding project.

American Lung Association, Trek Across Maine, 180 mile, 3-day bike ride, 13 year vet
Theater at Monmouth, Board of Directors, 2006 to present

Resume - Lamson Engineering Corporation

Name: Mr. Kin C. Lam, P.E.

Title: Principal

Education: M.S., U. of Wisconsin-Madison, Civil (Structural)
M.S., U. of Michigan, Ann Arbor, Civil (Geotechnical)
B.S., National Taiwan University, Civil

Professional Registration: P.E. in Massachusetts & Rhode Island

Experience:

Mr. Lam has over 25 years of experience in a wide range of geotechnical, structural and civil engineering projects. He has managed and designed many projects for Massachusetts Department of Transportation (MassDOT) from the preliminary design through final design to construction. Preparation of reports including those of geotechnical, construction plans, specifications and estimates are part of the design effort. The recent projects he was responsible for included the following:

- RIAC Reconstruction Runway 16-34, Newport Airport, Contract #22453, responsible for the boring program, testing and geotechnical report preparation for this 2009 airport runway reconstruction project (via MaFarland Johnson).
- Amtrak Wellington Signal Bridge of Warwick Intermodal Train Station, Cranston, RI, responsible for the boring program, foundation analysis & geotechnical report (via Jacobs).
- MassDOT Design-Build Cedar Street over Route 9, Wellesley Project responsible for boring program development, foundation analysis and geotechnical report preparation for this 2-span bridge replacement project (via Gill Engineering Associates).
- MassDOT Design-Build CSX Bridge Bundle Project, responsible for shallow foundation analysis and geotechnical report preparation for Rt. 148 Brookfield Bridge #B-26-003, Rt. 31 Charlton Bridge #C-06-014, Rt. 49 Spencer Bridge #S-23-024, and Rt. 67 West Brookfield Bridge #W-19-015 (via Fay, Spofford, & Thorndike).
- MassDOT Design-Build Lowell Bridge Bundle Project, I-495 northbound and southbound Bridges over Concord River, B&M & Woburn Street, Lowell, responsible for the integral and MSE abutments utilizing steel H-Piles and geogrid materials for these 6 bridges. This is the first MDOT project using such substructure type. (via AECOM).
- MassDOT Route 128 Add-A-Lane Project, Bridges IV for 7 bridges, responsible in boring program development, foundation analysis and geotechnical report preparation including the recommendation of the foundation types for this complex project. Proper shallow foundation, steel pile, & drilled shaft types were used for 7 bridges at Rte 109, Rte 135, Charles River & Great Plain Ave. (via Louis Berger Group).
- Route 2A Reconstruction Project, Town of Arlington responsible in roadway geotechnical foundation design and recommendations due to previous landfill underneath the existing roadway (via Fay, Spofford, & Thorndike).
- MassDOT Replacement Route 10 Bridge # E-05-006 over Manhan River, Easthamton, Mass., responsible for the geotechnical design and report preparation including the recommendation of the drilled micro-pile foundation for this single span bridge replacement project (via Diversified Technology Consultants).



APPLIED BIO-SYSTEMS, Inc.

PROJECT TEAM

Linda A. Steere
President and Principal Wetlands Biologist

EDUCATION

Bachelor of Science in Zoology

University of Rhode Island, Kingston RI, June 1971

Masters of Animal Science (Wildlife Management)

University of Rhode Island, June 1978

MEMBERSHIPS

Association of State Wetland Managers

Rhode Island Association of Wetland Scientists

Rhode Island Wild Plant Society

Rhode Island Natural History Survey

Society of Wetland Scientists

PROFESSIONAL REGISTRATIONS

Wetland Scientist – Rhode Island Association of Wetland Scientists

Soil Scientist – The Society of Soil Scientists of Southern New England

CRMC Master Design Certificate #1106001 – Low Impact Development

Invasive Plant Management Certification

AWARDS

Coastal America 1999 Partnership Award – Galilee Salt Marsh Restoration Team

2009 Peter Merritt Award for Conservation from the Rhode Island Land Trust Council

PUBLICATIONS

Sod removal and replacement tried in tidal marsh restoration, Chumra, G. and Steere, L.; Restoration and Management Notes, 1981, 1:1:22.

Tidal marsh sod replacement trial: Progress Report, Steere, L.; Restoration and Management Notes, 1982, 1:2:124.

Review of Freshwater Wetlands: A Guide to Common Indicator Plants of the Northeast by D. W. McGee, Steere, L.; Restoration and Management Notes, 1982, 1:2:169.

BACKGROUND

Ms. Steere has over 28 years of experience in the field of wetland ecology, permitting and regulatory requirements. Her educational background at the University of Rhode Island is in Wildlife Biology. She obtained an MS in Animal Science (Wildlife Management) and then furthered her education with

coursework to become a registered Soils Scientist. She has a strong background in regulatory permitting, spending over six years as a Wildlife Biologist for the RI Department of Management – Division of Fish and Wildlife as well as staff Biologist to the CRMC. She left RIDEM in 1986 to start her present firm, Applied Bio-Systems, Inc., in order to provide environmental consulting services to state, local and private clients.

SPECIAL EXPERTISE

- Project Management and Coordination
- Wetland Delineation for State and Federal Permitting
- Wildlife Inventories and Habitat Assessments
 - Bird Vocalizations, Mist-netting capture techniques, small-mammal traps, Amphibian Chorus counts, Vegetative Transects, Submerged Aquatic Vegetation Surveys, Soils Analysis, benthic sampling (river and stream)
- State and Federal Environmental Permitting with RIDEM, CRMC and USACE
- Aerial Photo Interpretations
- Wetlands Functions / Values Assessments
- Contractor Monitoring
- Project Impact Assessment
- Coordination with USACE, RIDEM and CRMC

ARCHITECT - ENGINEER QUALIFICATIONS

PART 1 - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION *(City and State)*
Design/Build Services for the replacement of the Laurel Avenue Bridge N. 397 Coventry, RI

2. PUBLIC NOTICE DATE
April 22, 2011

3. SOLICITATION OR PROJECT NUMBER
Bid #7448315

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE
Steven B. Garofalo, PE - President

5. NAME OF FIRM
Garofalo & Associates, Inc.

6. TELEPHONE NUMBER
(401) 273-6000

7. FAX NUMBER
(401) 273-1000

8. E-MAIL ADDRESS
sgarofalo@garofaloassociates.com

C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

	<i>(Check)</i>			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J-V PARTNER	SUBCONTRACTOR			
a.	<input checked="" type="checkbox"/>			S&R Corporation <input type="checkbox"/> CHECK IF BRANCH OFFICE	706 Broadway Street Lowell, MA 01854	Overall Project Manager and General Contractor.
b.		<input checked="" type="checkbox"/>		Garofalo & Associates, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	P.O. Box 6145 85 Corliss Street Providence, RI 02940	Highway, Bridge & Traffic Engineering
c.		<input checked="" type="checkbox"/>		Lamson Engineering (DBE) <input type="checkbox"/> CHECK IF BRANCH OFFICE	437 Cherry Street #109 Newton, MA 02465	Geotechnical Engineers.
d.		<input checked="" type="checkbox"/>		Northstar Hydro (WBE/DBE_) <input type="checkbox"/> CHECK IF BRANCH OFFICE	8 Go Way Winthrop, ME 04364	Hydrology, hydraulics and scour.
e.		<input checked="" type="checkbox"/>		Thielsch Engineering <input type="checkbox"/> CHECK IF BRANCH OFFICE	195 Frances Street Cranston, RI 02910	Pre- & Post-construction survey, monitoring and instrumentation.
f.		<input checked="" type="checkbox"/>		Applied Bio-Systems, Inc. (WBE/DBE) <input type="checkbox"/> CHECK IF BRANCH OFFICE	P.O. Box 985 West Kingstown, RI 02892	Environmental Manager and Permitting

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

(Attached)

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Steven B. Garofalo, P.E. - President	13. ROLE IN THIS CONTRACT Principal-in-Charge	14. YEARS EXPERIENCE	
		a. TOTAL 35	b. WITH CURRENT FIRM 31
15. FIRM NAME AND LOCATION <i>(City and State)</i> Garofalo & Associates, Inc.			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S./1974/Civil Engineering M.S./1981/Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> 1980/Professional Engineer/RI OSHA Ten Hour Training	

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Conant Street Railroad Bridge No. 915 Pawtucket, RI	2011	
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Engineering Type Study and Final Design for complete bridge replace over AMTRACK as part of the Group 4 Bridge improvements.	<input checked="" type="checkbox"/> Check if project performed with current firm	
Slatersville Stone Arch Bridge No. 273 North Smithfield, RI	2012	
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Structural Widening and Bridge Repairs	<input checked="" type="checkbox"/> Check if project performed with current firm	
RI Route 10 Improvements - Contract 1 Providence and Cranston, Rhode Island	1998	1999
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Conceptual Design Study and Final Construction Documents for 0.64 miles of roadway, drainage & signalization improvements.	<input checked="" type="checkbox"/> Check if project performed with current firm	
RI Route 10 1R Improvements - Contract 2 Providence and Cranston, Rhode Island	2002	2004
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Conceptual Design Study and Final Construction Documents for 1.4 miles of resurfacing, drainage & rehabilitation of 3 bridges.	<input checked="" type="checkbox"/> Check if project performed with current firm	
Bald Hill Road Reconstruction Project (Route 2) Warwick and West Warwick, Rhode Island	2000	2002
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design Study Report and Final Design for 2.5 miles of urban arterial roadway improvements including 14 traffic signal upgrades with fiber optic interconnection and new drainage.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Jeff E. Lewis, PE	13. ROLE IN THIS CONTRACT Design Manager	14. YEARS EXPERIENCE	
		a. TOTAL 32	b. WITH CURRENT FIRM 6
15. FIRM NAME AND LOCATION <i>(City and State)</i> Garofalo & Associates, Inc.			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S.C.E., University of Missouri, 1980 M.S.C.E., University of Missouri, 1987		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Engineer: Rhode Island, Massachusetts, Connecticut, New Hampshire, Maine & Kansas	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> American Society of Civil Engineers Boston Society of Civil Engineers			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	Conant Street Railroad Bridge No. 915 Pawtucket, RI	2011	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Engineering Type Study and Final Design for complete bridge replace over AMTRAK as part of the Group 4 Bridge improvements. The bridge had deep foundations, multiple utility accommodations and monitoring of railroad tracks.		
b.	Union Village Railroad Bridge No. 107 North Smithfield, RI	2012	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Engineering inspection and type study and final design for a 30' void slab superstructure with widened abutment section as part of the Group 4 Bridge Program. The widened section of the abutments had deep foundations. A separate bridge was designed for gas and water lines. The design was done using LRFD.		
c.	Boundary Street over Assabet River Marlborough, MA	2009	2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE As part of the State's Footprint Bridge Program, Garofalo provided the preliminary and final design services to replace the existing bridge. The new bridge is a 59 foot long single span prestressed concrete spread box beam bridge with a reinforced concrete slab. It has reinforced concrete abutments supported by drilled shafts. Utilities cross the bridge and are supported by the superstructure.		
d.	Route 122, BR B-02-005 Barre, MA	2011	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Designed a superstructure replacement using the LRFD codes for a single span steel beam bridge with a span of 57 feet. Concrete repairs were specified for the substructure. The bridge was to be constructed in two stages with traffic management for Route 122. A temporary traffic signal was used during one of the stages for alternating one way traffic. Construction phase services are included in the project.		
e.	Robin Hill Street Bridge #M-06-003 Marlborough, MA	2009	2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Study and design of new bridge replacement over the Assabet River for MassHighway under their Footprint Bridge program. The bridge had drilled shaft foundations and multiple utilities between the spread box beams of the bridge.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Stephen P. Crawford	13. ROLE IN THIS CONTRACT Staff Engineer-Bridge	14. YEARS EXPERIENCE	
		a. TOTAL 22	b. WITH CURRENT FIRM 6
15. FIRM NAME AND LOCATION <i>(City and State)</i> Garofalo & Associates, Inc.			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. Civil Engineering A.S. Engineering Technology		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i>	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> FHWA, NHI Safety Inspection of IN-Service Bridges, 2009 OSHA 10 Hr. Training			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i> Conant St. Bridge Replacement Pawtucket, RI	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Engineering Type Study and Final Design for complete bridge replace over AMTRAK as part of the Group 4 Bridge improvements. The bridge had deep foundations, multiple utility accommodations and monitoring of railroad tracks.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION <i>(City and State)</i> Union Village Railroad Bridge No. 107 North Smithfield, RI	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Engineering inspection and type study and final design for a 30' void slab superstructure with widened abutment section as part of the Group 4 Bridge Program. The widened section of the abutments had deep foundations. A separate bridge was designed for gas and water lines. The design was done using LRFD.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION <i>(City and State)</i> Route 122, BR B-02-005 Barre, MA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Designed a superstructure replacement using the LRFD codes for a single span steel beam bridge with a span of 57 feet. Concrete repairs were specified for the substructure. The bridge was to be constructed in two stages with traffic management for Route 122. A temporary traffic signal was used during one of the stages for alternating one way traffic. Construction phase services are included in the project.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION <i>(City and State)</i> Boundary Street over Assabet River Marlborough, MA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2009	CONSTRUCTION <i>(If applicable)</i> 2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE As part of the State's Footprint Bridge Program, Garofalo provided the preliminary and final design services to replace the existing bridge. The new bridge is a 59 foot long single span prestressed concrete spread box beam bridge with a reinforced concrete slab. It has reinforced concrete abutments supported by drilled shafts. Utilities cross the bridge and are supported by the superstructure.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION <i>(City and State)</i> Robin Hill St. Over Assabet River Marlborough, MA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2009	CONSTRUCTION <i>(If applicable)</i> 2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Study and design of new bridge replacement over the Assabet River for MassHighway under their Footprint Bridge program. The bridge had drilled shaft foundations and multiple utilities between the spread box beams of the bridge.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Deborah Loiselle	13. ROLE IN THIS CONTRACT Staff Engineer-Bridge	14. YEARS EXPERIENCE	
		a. TOTAL 11	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION <i>(City and State)</i> Garofalo & Associates, Inc. Providence, RI			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. Civil Engineering M.S. Structural Engineering (Candidate)		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> P.E. - California P.E. - Colorado	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> FHWA, NHI Safety Inspection of In-Service Bridges, 2009			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i> Union Village Bridge North Smithfield, RI	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Engineering inspection and type study and final design for a 30' void slab superstructure with widened abutment section as part of the Group 4 Bridge Program. The widened section of the abutments had deep foundations. A separate bridge was designed for gas and water lines. The design was done using LRFD.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION <i>(City and State)</i> Route 122, BR B-02-005 Barre, MA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Designed a superstructure replacement using the LRFD codes for a single span steel beam bridge with a span of 57 feet. Concrete repairs were specified for the substructure. The bridge was to be constructed in two stages with traffic management for Route 122. A temporary traffic signal was used during one of the stages for alternating one way traffic. Construction phase services are included in the project.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION <i>(City and State)</i> Route 2 Over White Pond & South Athol Road Athol, MA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project consisted of a superstructure replacement for two bridges, each approximately 60' long. It also included substructure repairs and traffic management for three stages of construction. Construction Cost: \$3.5 mil	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION <i>(City and State)</i> Robin Hill St. Over Assabet River Marlborough, MA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2009	CONSTRUCTION <i>(If applicable)</i> 2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Study and design of new bridge replacement over the Assabet River for MassHighway under their Footprint Bridge program. The bridge had drilled shaft foundations and multiple utilities between the spread box beams of the bridge.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION <i>(City and State)</i> Carolina Bridge North Smithfield, RI	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If applicable)</i> NA
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project consists of a superstructure replacement of two 30' long pre-stressed concrete slab bridges, with substructure repairs & widening and traffic management with a temporary traffic signal. The design was done using LRFD.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Carla M. Nunes	13. ROLE IN THIS CONTRACT Staff Engineer - Bridge	14. YEARS EXPERIENCE	
		a. TOTAL 16	b. WITH CURRENT FIRM 12
15. FIRM NAME AND LOCATION <i>(City and State)</i> Garofalo & Associates, Inc.			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S./1997/Civil & Environmental Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> OSHA Ten Hour Training	

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Union Village Bridge North Smithfield, RI	2012	
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Engineering inspection and type study and final design for a 30' void slab superstructure with widened abutment section as part of the Group 4 Bridge Program. The widened section of the abutments had deep foundations. A separate bridge was designed for gas and water lines. The design was done using LRFD.		
Conant Street Railroad Bridge No. 915 Pawtucket, RI	2011	
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Engineering Type Study and Final Design for complete bridge replace over AMTRAK as part of the Group 4 Bridge improvements. The bridge had deep foundations, multiple utility accommodations and monitoring of railroad tracks.		
Robin Hill St. Over Assabet River Marlborough, MA	2009	2010
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Study and design of new bridge replacement over the Assabet River for MassHighway under their Footprint Bridge program. The bridge had drilled shaft foundations and multiple utilities between the spread box beams of the bridge.		
Boundary Street over Assabet River Marlborough, MA	2008	2010
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE As part of the State's Footprint Bridge Program, Garofalo provided the preliminary and final design services to replace the existing bridge. The new bridge is a 59 foot long single span prestressed concrete spread box beam bridge with a reinforced concrete slab. It has reinforced concrete abutments supported by drilled shafts. Utilities cross the bridge and are supported by the superstructure.		
Route 122, BR B-02-005 Barre, MA	2011	
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Designed a superstructure replacement using the LRFD codes for a single span steel beam bridge with a span of 57 feet. Concrete repairs were specified for the substructure. The bridge was to be constructed in two stages with traffic management for Route 122. A temporary traffic signal was used during one of the stages for alternating one way traffic. Construction phase services are included in the project.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Matthew W. Cote, P.E.	13. ROLE IN THIS CONTRACT Staff Engineer - Highway/Utilities	14. YEARS EXPERIENCE	
		a. TOTAL 14	b. WITH CURRENT FIRM 10
15. FIRM NAME AND LOCATION <i>(City and State)</i> Garofalo & Associates, Inc.			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S/1996/Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> 2003/Professional Engineer (Civil)/RI; 2004/Professional Engineer/MA; OSHA 10 Hour Training Certification.	

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Conant Street Railroad Bridge No. 915 Pawtucket, RI	2011	
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Engineering Type Study and Final Design for complete bridge replace over AMTRACK as part of the Group 4 Bridge improvements. <input checked="" type="checkbox"/> Check if project performed with current firm		
Union Village Railroad Bridge No. 107 North Smithfield, RI	2012	
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Engineering inspection and type study as part of the Group 4 Bridge Program. <input checked="" type="checkbox"/> Check if project performed with current firm		
3R Improvements - Harris Avenue and Railroad Street Woonsocket, Rhode Island	2002	2003
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design Study Report and Final Construction Documents for 1.2 miles of roadway reconstruction and bridge rehab. <input checked="" type="checkbox"/> Check if project performed with current firm		
Improvements to I-195 Ramp 8 & Warren Avenue East Providence, RI	2005	2006
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Development of a Design Report and Final Construction Documents for improvements to the I-195 Ramps 7A & 8 intersections with Warren Avenue to improve safety and facilitate traffic flow within the existing intersection with Warren Avenue. <input checked="" type="checkbox"/> Check if project performed with current firm		
Various Salt Storage Facilities Statewide	2000 - 2009	2009
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Location study, site design and permitting for the construction of 6 Salt Storage Buildings including stormwater management systems. <input checked="" type="checkbox"/> Check if project performed with current firm		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Samuel A. White, Jr., PLS	13. ROLE IN THIS CONTRACT Land Survey	14. YEARS EXPERIENCE	
		a. TOTAL 46	b. WITH CURRENT FIRM 37
15. FIRM NAME AND LOCATION <i>(City and State)</i> Garofalo & Associates, Inc.			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Naval School of Construction		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> 1991/Professional Land Surveyor - RI, MA, CT, NY OSHA Ten Hour Training AMTRAK Certification	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	Conant Street Railroad Bridge No. 915 Pawtucket, RI	2011	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Engineering Type Study and Final Design for complete bridge replace over AMTRACK as part of the Group 4 Bridge improvements. Provided survey for this bridge design project.		
b.	Slatersville Stone Arch Bridge No. 273 North Smithfield, RI	2011	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided survey for this bridge design project.		
c.	RI Route 10 Improvements - Contract 1 Providence and Cranston, Rhode Island	1998	1999
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Conceptual Design Study and Final Construction Documents for 0.64 miles of roadway, drainage & signalization improvements. Provided survey for this bridge design project.		
d.	RI Route 10 1R Improvements - Contract 2 Providence and Cranston, Rhode Island	2002	2004
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Conceptual Design Study and Final Construction Documents for 1.4 miles of resurfacing, drainage & rehabilitation of 3 bridges. Provided survey for this bridge design project.		
e.	Route 122, BR B-02-005 Barre, MA	2010	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Designed a superstructure replacement using the LRFD codes for a single span steel beam bridge with a span of 57 feet. Concrete repairs were specified for the substructure. The bridge was to be constructed in two stages with traffic management for Route 122. A temporary traffic signal was used during one of the stages for alternating one way traffic. Construction phase services are included in the project. Provided survey for this bridge design project.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Philip M. Fusco, P.E.	13. ROLE IN THIS CONTRACT Traffic Engineer-Highway/Permits	14. YEARS EXPERIENCE	
		a. TOTAL 27.0	b. WITH CURRENT FIRM 5.0
15. FIRM NAME AND LOCATION <i>(City and State)</i> Garofalo & Associates, Inc.			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S./1985/Civil Engineering - University of Rhode Island		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Engineer/RI OSHA 10-Hour Training Professional Engineer/MA Professional Engineer/CT	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Member of the American Society of Civil Engineers (Past President) Member of the Institute of Transportation Engineer (Vice President - RI Chapter)			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	Improvements to I-195 Ramp 8 & Warren Avenue East Providence, RI	2005	2007
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Development of a Design Report and Final Construction Documents for improvements to the I-195 Ramps 7A & 8 intersections with Warren Avenue to improve safety and facilitate traffic flow within the existing intersection with Warren Avenue for RIDOT.		<input checked="" type="checkbox"/> Check if project performed with current firm
b.	Diamond Hill Road - 1R Improvements Woonsocket, RI	2009	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Initial Project Report and Final Construction Documents for 2.4 miles of roadway improvements with 8 signals and drainage improvements to be constructed by RIDOT.		<input checked="" type="checkbox"/> Check if project performed with current firm
c.	RI Route 10 Guide Sign Improvements - Contract 4 Providence and Cranston, RI	2009	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Conceptual Design and Final Construction Documents for 4.95 miles of new guide signs along the Route 10 corridor from Park Avenue in Cranston to the Route I-95 Interchange in Providence for RIDOT.		<input checked="" type="checkbox"/> Check if project performed with current firm
d.	Providence 1R Improvement Program Providence, Rhode Island	2007	2008
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design and Construction Management of \$5 million of Streets & Signals projects for the City of Providence. Design Contracts 1 & 4 included West River Street, Eddy Street, Cranston Street, Mt. Pleasant Avenue and Public Street for Providence Public Works Department.		<input checked="" type="checkbox"/> Check if project performed with current firm
e.	Town-wide Street & Drainage Improvements West Warwick, RI	2008	2009
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design and construction management of 8 miles of Town Street Improvements. Work included development of plans and contract documents that addressed replacement of full depth pavement by reclamation and the addition of new drainage systems.		<input checked="" type="checkbox"/> Check if project performed with current firm

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Christine Ann Palmer, P.E., PTOE	13. ROLE IN THIS CONTRACT Traffic Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 24.0	b. WITH CURRENT FIRM 3.0
15. FIRM NAME AND LOCATION <i>(City and State)</i> Garofalo & Associates, Inc.			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S./1984/Civil Engineering - Old Dominion University		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Engineer/RI/Civil Professional Engineer/MA/Civil Professional Traffic Operations Engineer	

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Member - Women's Transportation Seminar - RI Chapter President
Member - Institute of Transportation Engineers

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	RI Route 10 Guide Sign Improvements - Contract 4 Providence and Cranston, RI	2009	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Conceptual Design Study and Final Construction Documents for complete destination signing of the Route 10 corridor from Route I-95 Interchange to Park Avenue for RIDOT.		
b.	Providence 1R Improvement Program Providence, Rhode Island	2007	2008
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Design and Construction Management of \$5 million of Streets & Signals projects for the City of Providence. Design Contracts 1 & 4 that included West River Street, Eddy Street, Cranston Street, Mt. Pleasant Avenue and Public Street for Providence Public Works Department.		
c.	Diamond Hill Road - 1R Improvements Woonsocket, RI	2009	2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Initial Project Report and Final Construction Documents for 2.4 miles of roadway improvements with 8 signals and drainage improvements to be constructed by RIDOT.		
d.	Improvements to Church Street West Warwick, RI	2009	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Initial Project Report and Final Construction Documents for 0.6 miles of complete roadway reconstruction work including complete replacement of pavement structure, major geometric improvements and the addition of a complete new drainage system.		
e.	1R Improvements to Route 91 West - Contract 1 Westerly, RI	2009	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE 1R Improvements for 1.7 miles of Route 91 from Route 3 to Route 78 that includes pavement rehabilitation, geometric modifications, new drainage, addition of a new signal at Tower Street, Striping and Signage. This project was completed as part of the RIDOT Statewide 1R Improvement Program under Contract 4.		

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 1
---	--

21. TITLE AND LOCATION <i>(City and State)</i> Conant Street Railroad Bridge No. 915 Pawtucket, RI	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER RI Department of Transportation	b. POINT OF CONTACT Andy Tahmassian	c. POINT OF CONTACT TELEPHONE NUMBER (401) 222-2023, ext. 4083
--	---	--

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

This project consists of the complete replacement of an existing two-span through-girder structure that spans over P&WRR tracks, AMTRAK's electrified Northeast Corridor, and the Freight Rail Improvement Program (FRIP). Garofalo is currently performing the final design for the structure based on the approved recommendations from the type study report. The replacement structure will consist of a 150 foot pre-fabricated single-span steel bow truss structure that will be erected over the active electrified rail lines.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.			
b.			
c.			
d.			
e.			
f.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 2	
21. TITLE AND LOCATION <i>(City and State)</i> Route 122, BR B-02-005 Barre, MA		22. YEAR COMPLETED PROFESSIONAL SERVICES 2009 CONSTRUCTION <i>(If applicable)</i> 2010	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER MassDOT	b. POINT OF CONTACT	c. POINT OF CONTACT TELEPHONE NUMBER	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <p> Garofalo designed a superstructure replacement using the LRFD codes for a single span steel beam bridge with a span of 57 feet. Concrete repairs were specified for the substructure. The bridge was to be constructed in two stages with traffic management for Route 122. A temporary traffic signal was used during one of the stages for alternating one way traffic. Construction phase services are included in the project. </p>			
			
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 3
---	--

21. TITLE AND LOCATION <i>(City and State)</i> Boundary Street Over Assabet River Marlborough, MA	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i> 2011

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER MassDOT	b. POINT OF CONTACT	c. POINT OF CONTACT TELEPHONE NUMBER
------------------------------------	---------------------	--------------------------------------

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

As part of the State's Footprint Bridge Program, Garofalo provided the preliminary and final design services to replace the existing bridge. The new bridge is a 59 foot long single span prestressed concrete spread box beam bridge with a reinforced concrete slab. It has reinforced concrete abutments supported by drilled shafts. Utilities cross the bridge and are supported by the superstructure.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.			
b.			
c.			
d.			
e.			
f.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 4
---	--

21. TITLE AND LOCATION <i>(City and State)</i> Robin Hill Street Bridge #M-06-003 Marlborough, MA	22. YEAR COMPLETED <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">PROFESSIONAL SERVICES 2009</td> <td style="width:50%;">CONSTRUCTION <i>(If applicable)</i> 2010</td> </tr> </table>	PROFESSIONAL SERVICES 2009	CONSTRUCTION <i>(If applicable)</i> 2010
PROFESSIONAL SERVICES 2009	CONSTRUCTION <i>(If applicable)</i> 2010		

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER MASSDOT	b. POINT OF CONTACT	c. POINT OF CONTACT TELEPHONE NUMBER
------------------------------------	---------------------	--------------------------------------

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

As part of the State's Footprint Bridge Program, Garofalo provided the preliminary and final design services to replace the existing bridge. The new bridge is a 71 foot long single span prestressed concrete spread box beam bridge with a reinforced concrete slab. It has reinforced concrete abutments supported by drilled shafts. Utilities cross the bridge and are supported by the superstructure.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.			
b.			
c.			
d.			
e.			
f.			

<p align="center">F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i></p>	<p>20. EXAMPLE PROJECT KEY NUMBER 5</p>
---	--

<p>21. TITLE AND LOCATION <i>(City and State)</i> Allen Street BR N-20-002 Northborough, MA</p>	<p align="center">22. YEAR COMPLETED</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">PROFESSIONAL SERVICES 1999</td> <td style="width: 50%; padding: 2px;">CONSTRUCTION <i>(If applicable)</i> 2000</td> </tr> </table>	PROFESSIONAL SERVICES 1999	CONSTRUCTION <i>(If applicable)</i> 2000
PROFESSIONAL SERVICES 1999	CONSTRUCTION <i>(If applicable)</i> 2000		

23. PROJECT OWNER'S INFORMATION

<p>a. PROJECT OWNER MassDOT</p>	<p>b. POINT OF CONTACT</p>	<p>c. POINT OF CONTACT TELEPHONE NUMBER</p>
--	----------------------------	---

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

Garofalo designed a bridge superstructure replacement with a single span 59 foot long prestressed concrete box beam superstructure. The project modified and reused the existing abutments and required design of new utility supports on the fascia of the bridge. A detour was implemented and the bridge was closed during construction. The project included construction phase services with a post construction bridge rating.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.			
b.			
c.			
d.			
e.			
f.			

<p align="center">F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i></p>	<p>20. EXAMPLE PROJECT KEY NUMBER 6</p>
---	--

<p>21. TITLE AND LOCATION <i>(City and State)</i> Union Village Railroad Bridge No. 107 North Smithfield, RI</p>	<p align="center">22. YEAR COMPLETED</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">PROFESSIONAL SERVICES 2012</td> <td style="width: 50%; padding: 2px;">CONSTRUCTION <i>(If applicable)</i></td> </tr> </table>	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i>
PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i>		

23. PROJECT OWNER'S INFORMATION

<p>a. PROJECT OWNER RI Department of Transportation</p>	<p>b. POINT OF CONTACT Andy Tahmassian</p>	<p>c. POINT OF CONTACT TELEPHONE NUMBER (401) 222-2023, ext. 4083</p>
---	--	---

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

This project involves the inspection and report preparation for the superstructure replacement of a reinforced concrete slab bridge. As part of our investigation, Garofalo researched accident data for the site and recommended alignment upgrades as well as widening of the existing structure to address safety concerns in addition to the structural deficiencies of the bridge. The project is currently at the 30% stage of design with anticipation for bidding by 2010.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.			
b.			
c.			
d.			
e.			
f.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 7
---	--

21. TITLE AND LOCATION <i>(City and State)</i> Route 2, BR A-15-033, A-15-034 White Pond Rd & Athol Rd Athol, MA	22. YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION <i>(If applicable)</i> 2010
--	---

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER MassDOT	b. POINT OF CONTACT	c. POINT OF CONTACT TELEPHONE NUMBER
------------------------------------	---------------------	--------------------------------------

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

Garofalo designed a superstructure replacement for two single span steel beam bridges with spans of 60 and 70 feet long. The existing abutments were modified for the new steel beams and reused. The roadway for one of the structures is to be raised to accommodate deeper steel beams and roadway super elevation. Our project had to be coordinated with a safety improvement project that was under construction during our design phase. The bridge was to be constructed in two stages with traffic management for Route 2 and the local roads below the bridges. The Route 2 traffic management needed to consider the close proximity of the two bridges with construction being performed at the same time. Construction phase services are included in the project.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.			
b.			
c.			
d.			
e.			
f.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 8
---	--

21. TITLE AND LOCATION <i>(City and State)</i> Stony Lane Railroad Bridge No. 895 North Kingstown, RI	22. YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION <i>(If applicable)</i> 1996 1996
---	---

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER RIDOT	b. POINT OF CONTACT	c. POINT OF CONTACT TELEPHONE NUMBER
----------------------------------	---------------------	--------------------------------------

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

The existing structure was a single span steel through-girder with steel floor beams, timber stringers and decking. The structure had deteriorated to the point where load carrying capacity had been reduced. The existing abutments and superstructure were replaced with a new single span prestressed concrete deck beam structure supported by new concrete abutments. Both horizontal and vertical clearances were revised to conform to AMTRAK requirements. Approach roadway profiles were revised to conform to AASHTO guidelines for vertical alignment. The design included supports for new water and gas lines crossing the bridge.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.			
b.			
c.			
d.			
e.			
f.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 9
---	--

21. TITLE AND LOCATION <i>(City and State)</i> Main Street Railroad Bridge No. 279 West Warwick, RI	22. YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION <i>(If applicable)</i> 1999 1999
---	---

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER RIDOT	b. POINT OF CONTACT	c. POINT OF CONTACT TELEPHONE NUMBER
----------------------------------	---------------------	--------------------------------------

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

The existing structure is a three span simply supported timber bridge with timber decking and stone abutments and timber piers. The existing structure has been burned and has a reduced load carrying capacity. The existing structure will be replaced with a new three-sided precast concrete structure. Vertical and horizontal clearance will be as required to accommodate the new bike path proposed for the abandoned railroad right-of-way.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.			
b.			
c.			
d.			
e.			
f.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 10
---	---

21. TITLE AND LOCATION <i>(City and State)</i> Slatersville Stone Arch Bridge No. 273 North Smithfield, RI	22. YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION <i>(If applicable)</i> 2012
--	---

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER RIDOT	b. POINT OF CONTACT	c. POINT OF CONTACT TELEPHONE NUMBER
----------------------------------	---------------------	--------------------------------------

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

The existing bridge is an historic structure that required a 106 Case Study before any repairs could be approved. The structure has insufficient width for the current traffic needs. The 106 report explored widening the bridge without disturbing the qualities that have placed it on the National Register.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.			
b.			
c.			
d.			
e.			
f.			

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
Steven B. Garofalo, P.E.	Principal-in-Charge	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Jeff E. Lewis, P.E.	Design Manager	✓	✓	✓	✓	✓	✓	✓			✓
Stephen P. Crawford	Staff Engineer-Bridge	✓	✓	✓	✓	✓	✓	✓			✓
Deborah Loiselle	Staff Engineer-Bridge	✓	✓	✓	✓		✓	✓			✓
Carla M. Nunes	Bridge Staff Engineer	✓	✓	✓	✓	✓	✓	✓			✓
Matthew W. Cote, P.E.	Staff Engineer-Highway/Utilitie	✓	✓	✓	✓		✓	✓			✓
Samuel A. White, Jr.,	Land Survey	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Philip M. Fusco, P.E.	Traffic Engineer Highway/Permits		✓				✓	✓			✓
Christine Ann Palmer, P.E. PTOE	Traffic Engineer		✓				✓				✓

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Conant Street Railroad Bridge No. 915	6	Union Village Railroad Bridge No. 107
2	Route 122, BR B-02-005	7	BR A-15-033, A-15-034 White Pond Rd & South Athol Rd
3	Boundary Street Over Assabet River	8	Stony Lane Railroad Bridge No. 895
4	Robin Hill Street BR M-06-003	9	Main Street Railroad Bridge No. 279
5	Allen Street BR N-20-002	10	Slatersville Stone Arch Bridge No. 273

**CERTIFICATION REGARDING DEBARMENT, SUSPENSION,
AND OTHER RESPONSIBILITY MATTERS
PRIMARY COVERED TRANSACTIONS**

In accordance with the code of Federal Regulations, Part 49 CFR Section 29. 510, the prospective primary participant Roger R. Ploof, Jr. (name of Authorized Agent), President (Title), being duly sworn (or under penalty of perjury under the laws of the United States), certifies to the best of his/her knowledge and belief, that its principals:

- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency;
- b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1) (b) of this certification;
- d. Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

Where the prospective primary participant is unable to certify any of the statements in this certification, such prospective participant shall list exceptions below.

Exceptions will not necessarily result in denial of award, but, will be considered in determining contractor responsibility. For any exception noted, indicate below to whom it applies, the initiating agency, and the dates of the action. Providing false information may result in criminal prosecution or administrative sanctions. If an exception is noted the contractor must contact the Department to discuss the exception prior to award of the contract.

None



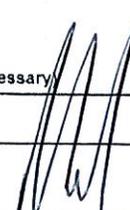
Signature of Authorized Agent
Roger R. Ploof, Jr., President
S&R Corporation

April 22, 2011

Date

DISCLOSURE OF LOBBYING ACTIVITIES

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352
(See reverse for public burden disclosure.)

<p>1. Type of Federal Action:</p> <p><input checked="" type="checkbox"/> a. contract <input type="checkbox"/> b. grant <input type="checkbox"/> c. cooperative agreement <input type="checkbox"/> d. loan <input type="checkbox"/> e. loan guarantee <input type="checkbox"/> f. loan insurance</p>	<p>2. Status of Federal Action:</p> <p><input checked="" type="checkbox"/> a. bid/offer/application <input type="checkbox"/> b. initial award <input type="checkbox"/> c. post-award</p>	<p>3. Report Type:</p> <p><input checked="" type="checkbox"/> a. initial filing <input type="checkbox"/> b. material change</p> <p>For Material Change Only: year _____ quarter _____ date of last report _____</p>
<p>4. Name and Address of Reporting Entity:</p> <p><input checked="" type="checkbox"/> Prime <input type="checkbox"/> Subawardee Tier _____, if known:</p> <p>S&R CORPORATION Congressional District, if known: _____</p>	<p>5. If Reporting Entity in No. 4 is Subawardee, Enter Name and Address of Prime:</p> <p>Congressional District, if known: _____</p>	
<p>6. Federal Department/Agency:</p>	<p>7. Federal Program Name/Description</p> <p>CFDA Number, if applicable: _____</p>	
<p>8. Federal Action Number, if known:</p>	<p>9. Award Amount, if known: \$ _____</p>	
<p>10. a. Name and Address of Lobbying Entity (if individual, last name, first name, MI):</p> <p style="text-align: right;">(attach Continuation Sheet(s))</p>	<p>b. Individuals Performing Services (including address if different from No. 10a) (last name, first name, MI):</p> <p>SF-LLL-A, if necessary</p>	
<p>11. Amount of Payment (check all that apply):</p> <p>\$ _____ <input type="checkbox"/> actual <input type="checkbox"/> planned</p>	<p>13. Type of Payment (check all that apply):</p> <p><input type="checkbox"/> a. retainer <input type="checkbox"/> b. one-time fee <input type="checkbox"/> c. commission <input type="checkbox"/> d. contingent fee <input type="checkbox"/> e. deferred <input type="checkbox"/> f. other; specify: _____</p>	
<p>12. Form of Payment (check all that apply):</p> <p><input type="checkbox"/> a. cash <input type="checkbox"/> b. in-kind; specify: nature _____ value _____</p>		
<p>14. Brief Description of Services Performed or to be Performed and Date(s) of Service, including officer(s), employee(s), or Member(s) contacted, for Payment Indicated in Item 11:</p> <p><u>NOT APPLICABLE</u></p> <p style="text-align: right;">(attach Continuation Sheet(s) SF-LLL-A if necessary)</p>		
<p>15. Continuation Sheet(s) SF-LLL-A attached: <input type="checkbox"/> Yes <input type="checkbox"/> No</p>		
<p>16. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.</p>	<p>Signature: </p> <p>Print Name: <u>Roger R. Ploof Jr.</u></p> <p>Title: <u>President - S&R Corporation</u></p> <p>Telephone No.: <u>(978) 441-2000</u> Date: <u>4/22/11</u></p>	
<p>Federal Use Only:</p>		<p>Authorized for Local Reproduction Standard Form - LLL-A</p>

DISCLOSURE OF LOBBYING ACTIVITIES

CONTINUATION SHEET

Reporting Entity: _____ Page ____ of ____

CONFLICTS DISCLOSURE STATEMENT

RE: Rhode Island Department of Transportation Bid No. 7448315
Design/Build Replacement of Laurel Avenue Bridge No. 397, Coventry, RI

I, Roger R. Ploof Jr. hereby certify as follows:

I am employed as a President of S&R CORPORATION
 [TITLE] [COMPANY]

and to the best of my knowledge:

PLEASE CHECK THE APPROPRIATE BOX:

- I have no family or personal relations currently employed either on a full-time or part-time basis at the Rhode Island Department of Transportation.
- I do have family or personal relations currently employed at the Rhode Island Department of Transportation. Please list their name(s), title(s), and RIDOT Division(s) (if known):

NAME	TITLE	RIDOT DIVISION

If necessary, please add any additional names as attachments hereto.

FOR ILLUSTRATIVE PURPOSES, FAMILY RELATIONS SHALL INCLUDE, WHETHER BY BLOOD, ADOPTION OR MARRIAGE, ANY OF THE FOLLOWING RELATIONSHIPS:

Father, Mother, Son, Daughter, Brother, Sister, Grandfather, Grandmother, Grandson, Granddaughter, Father-In-Law, Mother-In-Law, Brother-In-Law, Sister-In-Law, Son-In-Law, Daughter-In-Law, Stepfather, Stepmother, Stepson, Stepdaughter, Stepbrother, Stepsister, Half-Brother Or Half-Sister, Niece, Nephew, And Cousin

❖ *If you are unsure whether a relationship, association, or connection you have may need to be disclosed, please consult with RIDOT's Legal Office at (401) 222-6510.*



SIGNATURE 4/22/11
DATE
 Roger R. Ploof Jr., President

By signing this form you: (1) certify that the information contained in this form is complete and accurate to the best of your knowledge; and (2) acknowledge your continuing obligation to complete and submit a new Disclosure form when there is any change in your family or personal relations during the course of this Contract.

This document is used for internal RIDOT purposes only in order to address and avoid any potential conflicts at the inception of the contract process and to avoid any impropriety or the appearance of impropriety during the contract process. Any disclosures made hereto will not prejudice prospective vendors from selection.

Revised: 4/12/2002

**ANTI-COLLUSION CERTIFICATE FOR CONTRACT AND FORCE ACCOUNT
[Unsworn Declaration]**

Title 23, United States Code, Section 112(c), requires, as a condition precedent to approval by the Director of Public Roads of the contract for this work, that there be filed an unsworn declaration executed by, on behalf of, the person, firm, association, or corporation submitting the bid certifying that such person, firm, association, or corporation has not either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action, in restraint of free competitive bidding in connection with the submitted bid. This unsworn statement shall be in the form of a declaration executed under penalty of perjury under the laws of the United States.

To the: **STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
DEPARTMENT OF TRANSPORTATION, DIVISION OF PUBLIC WORKS**

State of MA

County of Middlesex

I, Roger R. Ploof Jr., President, under penalty under the laws of the United States, do depose and say:

On behalf of S&R CORPORATION, of Lowell MA that said Contractor has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with Rhode Island Contract Number , Federal-Aid Project Number , County of , Town-City , Road-Bridge .

S&R CORPORATION



Roger R. Ploof Jr., President

April 22, 2011

**CERTIFICATION REGARDING DEBARMENT, SUSPENSION,
AND OTHER RESPONSIBILITY MATTERS
PRIMARY COVERED TRANSACTIONS**

In accordance with the code of Federal Regulations, Part 49 CFR Section 29. 510, the prospective primary participant Steven B. Garofalo, PE (name of Authorized Agent),

President (Title), being duly sworn (or under penalty of perjury under the laws of the United States), certifies to the best of his/her knowledge and belief, that its principals:

- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency;
- b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1) (b) of this certification;
- d. Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

Where the prospective primary participant is unable to certify any of the statements in this certification, such prospective participant shall list exceptions below.

Exceptions will not necessarily result in denial of award, but, will be considered in determining contractor responsibility. For any exception noted, indicate below to whom it applies, the initiating agency, and the dates of the action. Providing false information may result in criminal prosecution or administrative sanctions. If an exception is noted the contractor must contact the Department to discuss the exception prior to award of the contract.

 (PE)
Signature of Authorized Agent

April 22, 2011

Date

CONFLICTS DISCLOSURE STATEMENT

RE: Design/Build Services for the Replacement of the Laurel Avenue Bridge No. 397 Coventry, RI

I, Leonard A. Garofalo, PLS hereby certify as follows:

I am employed as a CEO of Garofalo & Associates, Inc.
 [TITLE] [COMPANY]

and to the best of my knowledge:

PLEASE CHECK THE APPROPRIATE BOX:

- I have no family or personal relations currently employed either on a full-time or part-time basis at the Rhode Island Department of Transportation.
- I do have family or personal relations currently employed at the Rhode Island Department of Transportation. Please list their name(s), title(s), and RIDOT Division(s) (if known):

NAME	TITLE	RIDOT DIVISION

If necessary, please add any additional names as attachments hereto.

FOR ILLUSTRATIVE PURPOSES, FAMILY RELATIONS SHALL INCLUDE, WHETHER BY BLOOD, ADOPTION OR MARRIAGE, ANY OF THE FOLLOWING RELATIONSHIPS:

Father, Mother, Son, Daughter, Brother, Sister, Grandfather, Grandmother, Grandson, Granddaughter, Father-In-Law, Mother-In-Law, Brother-In-Law, Sister-In-Law, Son-In-Law, Daughter-In-Law, Stepfather, Stepmother, Stepson, Stepdaughter, Stepbrother, Stepsister, Half-Brother Or Half-Sister, Niece, Nephew, And Cousin

❖ *If you are unsure whether a relationship, association, or connection you have may need to be disclosed, please consult with RIDOT's Legal Office at (401) 222-6510.*


SIGNATURE

April 22, 2011

DATE

By signing this form you: (1) certify that the information contained in this form is complete and accurate to the best of your knowledge; and (2) acknowledge your continuing obligation to complete and submit a new Disclosure form when there is any change in your family or personal relations during the course of this Contract.

This document is used for internal RIDOT purposes only in order to address and avoid any potential conflicts at the inception of the contract process and to avoid any impropriety or the appearance of impropriety during the contract process. Any disclosures made hereto will not prejudice prospective vendors from selection.

CONFLICTS DISCLOSURE STATEMENT

RE: Design/Build Services for the Replacement of the Laurel Avenue Bridge No. 397 Coventry, RI

I, Steven B. Garofalo, PE hereby certify as follows:

I am employed as a President of Garofalo & Associates, Inc.
 [TITLE] [COMPANY]
 and to the best of my knowledge:

PLEASE CHECK THE APPROPRIATE BOX:

- I have no family or personal relations currently employed either on a full-time or part-time basis at the Rhode Island Department of Transportation.
- I do have family or personal relations currently employed at the Rhode Island Department of Transportation. Please list their name(s), title(s), and RIDOT Division(s) (if known):

NAME	TITLE	RIDOT DIVISION

If necessary, please add any additional names as attachments hereto.

FOR ILLUSTRATIVE PURPOSES, FAMILY RELATIONS SHALL INCLUDE, WHETHER BY BLOOD, ADOPTION OR MARRIAGE, ANY OF THE FOLLOWING RELATIONSHIPS:

Father, Mother, Son, Daughter, Brother, Sister, Grandfather, Grandmother, Grandson, Granddaughter, Father-In-Law, Mother-In-Law, Brother-In-Law, Sister-In-Law, Son-In-Law, Daughter-In-Law, Stepfather, Stepmother, Stepson, Stepdaughter, Stepbrother, Stepsister, Half-Brother Or Half-Sister, Niece, Nephew, And Cousin

** If you are unsure whether a relationship, association, or connection you have may need to be disclosed, please consult with RIDOT's Legal Office at (401) 222-6510.*

April 22, 2011

SIGNATURE

DATE

By signing this form you: (1) certify that the information contained in this form is complete and accurate to the best of your knowledge; and (2) acknowledge your continuing obligation to complete and submit a new Disclosure form when there is any change in your family or personal relations during the course of this Contract.

This document is used for internal RIDOT purposes only in order to address and avoid any potential conflicts at the inception of the contract process and to avoid any impropriety or the appearance of impropriety during the contract process. Any disclosures made hereto will not prejudice prospective vendors from selection.

CONFLICTS DISCLOSURE STATEMENT

RE: Design/Build Services for the Replacement of the Laurel Avenue Bridge No. 397 Coventry, RI

I, David L. Parent, CPA hereby certify as follows:

I am employed as a Vice President of Garofalo & Associates, Inc.
 [TITLE] [COMPANY]

and to the best of my knowledge:

PLEASE CHECK THE APPROPRIATE BOX:

- I have no family or personal relations currently employed either on a full-time or part-time basis at the Rhode Island Department of Transportation.
- I do have family or personal relations currently employed at the Rhode Island Department of Transportation. Please list their name(s), title(s), and RIDOT Division(s) (if known):

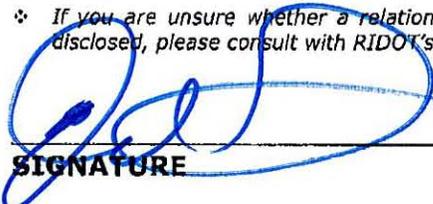
NAME	TITLE	RIDOT DIVISION

If necessary, please add any additional names as attachments hereto.

FOR ILLUSTRATIVE PURPOSES, FAMILY RELATIONS SHALL INCLUDE, WHETHER BY BLOOD, ADOPTION OR MARRIAGE, ANY OF THE FOLLOWING RELATIONSHIPS:

Father, Mother, Son, Daughter, Brother, Sister, Grandfather, Grandmother, Grandson, Granddaughter, Father-In-Law, Mother-In-Law, Brother-In-Law, Sister-In-Law, Son-In-Law, Daughter-In-Law, Stepfather, Stepmother, Stepson, Stepdaughter, Stepbrother, Stepsister, Half-Brother Or Half-Sister, Niece, Nephew, And Cousin

❖ *If you are unsure whether a relationship, association, or connection you have may need to be disclosed, please consult with RIDOT's Legal Office at (401) 222-6510.*

 _____
SIGNATURE April 22, 2011
DATE

By signing this form you: (1) certify that the information contained in this form is complete and accurate to the best of your knowledge; and (2) acknowledge your continuing obligation to complete and submit a new Disclosure form when there is any change in your family or personal relations during the course of this Contract.

This document is used for internal RIDOT purposes only in order to address and avoid any potential conflicts at the inception of the contract process and to avoid any impropriety or the appearance of impropriety during the contract process. Any disclosures made hereto will not prejudice prospective vendors from selection.

H. ADDITIONAL INFORMATION

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

Throughout its evolution, Garofalo & Associates, Inc. has fostered a corporate environment that strives for excellence. The continual expansion of staff capabilities and services since the firm's founding in 1974, has resulted in a civil engineering and transportation firm that engenders a multi-disciplined approach backed by extensive experience.

Garofalo's Transportation Department is an example of the firm's initiative to meet our client's needs. The firm is comprised of dedicated people with specialized expertise in all phases of Highway, Bridge and Traffic engineering, including engineers and technicians equipped to provide a full spectrum of transportation services. Through careful analysis and comprehensive knowledge of the complex governmental regulations and policies, our staff can provide an accurate project design from conceptual design stages through final construction.

Garofalo also offers a wide array of services, including:

- Civil/Site Engineering
- Construction Management
- Environmental Studies
- Land Surveying
- Landscape Architecture
- Water & Wastewater Collection System Design
- Traffic Engineering
- Structural Engineering
- Transportation Planning & Highway Engineering
- Urban Planning

The Garofalo staff maintains an experienced team of registered professionals serving as transportation/traffic engineers, structural engineers, civil engineers, environmental engineers, construction inspectors, planners and surveyors. Possessing this large complement of problem-solving technicians assures a specialized but cost-effective effort for both public and private sector projects. Most importantly, the technical skills offered by our in-house staff allows Garofalo & Associates, Inc. to develop creative solutions to meet our clients ever changing needs.

Garofalo & Associates, Inc. services an expanding and diverse client base that provides a unique range of experience for future projects. By stressing accuracy, flexibility and precision from our highly qualified staff, we can assure that even complex projects will be taken from initial planning and design to completion in a timely fashion. When the "Garofalo Team" undertakes a project, effective management is guaranteed by a select group of professionals committed to success with the ability to present creative alternatives and solutions.

Our ultimate objective is to deliver successful projects that will turn our clients visions into reality.

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE

32. DATE

04/22/11

33. NAME AND TITLE

Steven B. Garofalo, PE President

