

## Bridge and Structural Design - CSO Solicitation No. 2153

THIS SOLICITATION IS BEING EXTENDED TO PREQUALIFIED FIRMS AND IS POSTED HERE FOR INFORMATION ONLY.

The Connecticut Department of Transportation is seeking to engage five professional consulting engineering firms to perform design services to rehabilitate or replace the 19 bridges identified on the attached list. The Bridge Safety and Evaluation Unit developed the enclosed document which describes the bridges. Each selected consultant engineering firm will be responsible to prepare contract documents for three or more of the bridge rehabilitation/replacement projects identified on the enclosed list. Bridge Safety and Evaluation's latest Inspection Reports can be found on the Department's website [www.ct.gov/dot](http://www.ct.gov/dot) under Doing Business with ConnDOT/Engineering Resources/Bridges and Facilities/Bridge Consultant Design/Information for Letters of Interest.

In order to be considered for one of these assignments, your firm must be currently certified as one of the following:

- A Connecticut Department of Transportation certified Disadvantaged Business Enterprise (DBE); or
- A Connecticut Department of Administrative Services certified Small Business Enterprise (SBE) or Small/Minority Business Enterprise (SBE/MBE); or
- Certified under one of the United States Small Business Administration's Programs: 8(a) firm; Small Disadvantaged Business (SDB); HUBZone; USSBA Loan recipient (Loan Note documentation required).

**Please be advised that firms must provide evidence with your application of one of these certifications that indicates when it is due to be renewed, or loan documentation that indicates that it is active, in order to be considered for one of these assignments.**

Successful applicants to this request will be required to provide plans, designs, environmental data, or other supporting data in a Bentley Systems, MicroStation digital CADD format, according to the latest Digital Design Environment (DDE) guidelines.

If your firm desires to be considered for one of these assignments, your submittal should consist of a one page letter-of-interest and ConnDOT Form CSO 255 with a maximum of 3 resumes. One of the resumes must be that of the proposed Engineer-in-Charge of the work as well as assurance that he/she will be available for work when required.

Included in the submittal must be a brief narrative summarizing your current design workload; a narrative description of proposed staff, qualifications, discipline experience and expertise in (1) highway design; (2) bridge design; (3) maintenance, and protection of traffic; (4) soils engineering; (5) environmental permitting; (6) roadside safety and (7) familiarity with ConnDOT Design Standards and Procedures. The location of the office where the work will be performed and the staff size of that office should also be indicated. Firms applying for assignments will be required to demonstrate the ability to provide contract documents within 18 months of their notice to proceed.

Four copies of the submittal are required, and it must be postmarked by **April 16, 2012 or hand-delivered by 4 p.m. on that date.**

Do not send additional documentation other than what is requested. The Consultant Selection Panel may reject your submittal, and your firm may not be considered for these projects, if you provide additional documentation such as corporate brochures, background information, and histories.

All firms are advised that the prime consultant must perform the major part of the work with employees of the firm. Subconsultants may be used to perform specialized work. Joint venturing assignments will not be allowed.

Please be advised, that as of August 1, 2007, the Office of Policy and Management has updated its contracting affidavits and certifications, as well as the timeline of when these documents are required to be completed, signed and returned. For the purposes of Form 1 (Gift and Campaign Contribution Certification), the planning date is defined as the date when the Commissioner granted approval to hire a consultant. For this project, the planning date is February 9, 2012. This is the date the selected firm must use when completing Form 1 at the time the agreement/contract is executed in accordance with the Connecticut General Statute (CGS) Section 4-252 and Executive Order No. 7C, paragraph 10. Please be advised that Form 5 (Consulting Agreement Affidavit), in its revised format (Rev. 10-01-11), must be completed and **one copy** should be submitted with your letter-of-interest package. Please do not staple or bind the affidavit in your submittal package. Forms 1 and 5 apply to all consulting agreements/contracts which have a total value to the State of Fifty Thousand Dollars (\$50,000) or more in a calendar or fiscal year. Any consultant that does not make the certifications required under subsection (c) of CGS 4-252 or refuses to submit the affidavit required under subsection (b) of CGS 4a-81 shall be disqualified and the Department shall award the agreement/contract to the next highest ranked consultant or seek new submittals in accordance with subsection (d) of CGS 4-252 and subsection (d) of CGS 4a-81. Further information on these requirements can be obtained online at <http://www.ct.gov/opm> via the Ethics Affidavits link.

For all State contracts as defined in CGS § 9-612(g)(1) having a value in a calendar year of \$50,000 or more or a combination or series of such agreements or contracts having a value of \$100,000 or more, the authorized signatory to this submission in response to the State's solicitation expressly acknowledges receipt of the State Elections Enforcement Commission's Notice titled "Notice to Executive Branch State Contractors and Prospective State Contractors of Campaign Contribution and Solicitation Limitations" (Notice) advising state contractors of state campaign contribution and solicitation prohibitions, and will inform its principals of the contents of the Notice. The State Elections Enforcement Commission's Notice is enclosed hereto and hereby made a part of this solicitation.

Prior to the negotiation process, the selected firm will be required to have a Department-approved audit and affirmative action plan, as well as current corporate registration with the Secretary of State (partnerships excluded). The selected firm will also be required to maintain insurance coverage from a firm licensed to do business in the State of Connecticut. Proof of coverage must be submitted on Department Forms CON-32 and DOC-001 prior to the start of the negotiations process.

Circumstances may require the rescheduling or cancellation of projects. Should this action be necessary, the Department would be under no obligation to provide supplementary work for the firms selected for this assignment. The Department reserves the right to award subsequent phases of an assignment to other qualified firms.

**Concurrent with this solicitation, the Department is also soliciting engineering firms to perform design services for federally eligible bridges on List 22-25 (CSO Solicitation No. 2152). If your firm applies and is subsequently one of the firms selected for CSO solicitation No. 2152, you will be ineligible to be shortlisted for this assignment.**

The Department reserves the right to add a project(s) of a similar nature for a separate selection, should additional projects become available prior to the interview phase of the selection process.

Please be advised that firms must continue to be prequalified in the specific categories in the year a shortlist is finalized and/or a selection is made.

All inquiries regarding this request for letter-of-interest must be directed to the Consultant Selection Office at (860)594-3017.

# List Bridges ineligible for the Federal Highway Bridge Program

Dist	Bridge #	Town	Route-Feature Carried	Location-Feature Crossed	List	Suff. Rating	Deck Area	Deck Super.	Sub. Culvert	Recommendations	
1	00425	Harwinton	Rte. 4	W. Branch Leadmine Brook	24	93	1828	4	7	N	Deck is poor with over 55% deterioration, including map and transverse cracking with efflorescence, honeycombing, hollow areas, full depth patched and active leakage through the concrete. Recommend deck replacement.
1	02114	Meriden	Interstate 691	Amtrak yard and State St.	23	78.07	50481	7	5	N	Prestressed concrete I-beams on elastomeric bearings--bearings are cracking, bulging in expansion mode at 15 degrees. Beam ends are spalled exposing strands and rebar (they have been cleaned and coated). Recommend replacing bearings, repairing the substructure and repairing the superstructure.
1	02719	Middlefield	Route 147	Lyman Meadow Brook	22	45.41	380	5	5	N	The abutments and wingwalls are stone masonry construction. There is up to 3" vertical settlement at the inlet end of abutment 2 and adjacent wingwall. The settlement is due to a lack of sound footing/minor scour. Substructure rehabilitation/bridge replacement.
1	03400D	Hartford	I-84 TR 823	Parking Lot	24	81.07	16473	4	5	N	The deck is in poor condition. The underside has transverse and map cracking with efflo and areas of honeycomb, there are several hollow areas and exposed rebar. The deck ends and overhangs at the piers have random spalls and exposed rebar. (Underside deterioration 43% in span 1). Superstructure: sliding bearings have peeling paint and rust, pack rust between the sole and sliding plates. Numerous sliding bearings appear to be frozen and/or show no evidence of movement. The fixed bearings have moderate to heavy rust some pack rust between plates. Girder ends have random areas of pitting/section loss in the bottom of webs and flanges. Diaphragm cross-frame angles and connection plate welds are missing, partially or fully cracked at random locations. The pier caps and columns have numerous hollow areas and spalls with exposed rebar (some with heavy rust and section loss). There are areas across the top face to the bearing masonry plate and spalls which have undermined the plates. Recommend removing/patching delaminated areas in the underside of deck including the deck ends and overhangs. Install repair plates where necessary. Repair/ reweld the partial and fully cracked weld at the diaphragms. Replace sliding bearings. Remove/patch delaminated concrete in the pier caps, columns and pedestals. Work should be combined with 03399D, and 03402A
1	05579	Enfield	Route 190	Terry Brook	22	58.49	2255	N	N	4	Culvert rehabilitation.
2	00686	Plainfield	Route 14	Moosup River	22	68.87	17314	5	5	N	Deck end replacement. Failing paint system and severely corroded railing system need to be addressed.

List Bridges ineligible for the Federal Highway Bridge Program

Dist	Bridge #	Town	Route-Feature Carried		Location-Feature Crossed	List	Deck			Sub.	Culvert	Recommendations	
			Area	Rating			Super.	Sub.					
2	01890	Old Saybrook	US Rte. 1		Hagar Creek	24	21.87	245	6	3	7	N	Reinforced concrete slab has spalls delaminating areas and exposed reinforcing steel. Exposed steel is corroded and has section loss 50 to 100%. Structure is supported on masonry substructure. No scour eval. Recommend bridge replacement.
2	02514A	New London	Interstate 95 SB		Thames River/RR/Local Rds.	BMM	75.68		6	5	6	N	Recommend addressing any gusset plate issues and any frozen rocker bearings. There is extensive spalling on the outside face of the parapets. Strip patch membrane and overlay is recommended. Many joints should be replaced.
2	02514B	New London	Interstate 95 TR 817		Williams St., State Pier Rd.	BMM	94.14		6	6	6	N	Recommend addressing any gusset plate issues and any frozen rocker bearings. There is extensive spalling on the outside face of the parapets. Strip patch membrane and overlay is recommended. Many joints should be replaced.
2	02680	Killingworth	Route 148		Brook	22	48.43	667	6	3	3	N	Superstructure replacement.
2	06736	Colchester	Route 11 SB		Cabin Brook	25	73	4480	N	N	N	4	Replace or re-line culvert.
2	06690	Marlborough	Route 66		Lyman's Brook	25	89	1609	N	N	N	5	Recommend lining pipe.
2	06784	Colchester	Rte. 85		Cabin Brook	24	55.14	2121	N	N	N	3	The corrugated metal pipe culvert has areas of section loss and perforations that allow the loss of surrounding embankment into the structure. Rehabilitate or replace culvert.
4	01977	Southbury	SSR 492		Bullet Hill Brook	22	78.9	1066	N	N	N	5	Scour repair was made in an emergency project. More effective repair is required.
4	02390	Redding	Route 53		Brook	22	47.71	642	7	4	5	N	Superstructure replacement.
4	06691	Middlebury	Route 63		Brook	25	43.97	1760	N	N	N	3	Re-line the pipe or repair the pipe invert.
4	06786	Washington	Rte. 109		Mallory Brook	24	51.21	510	N	N	N	3	The masonry cut-off walls and headwalls exhibit mortar voids creating a piping condition through the perforation holes in the pipes. The twin pipes exhibit pitting type section loss with numerous perforation holes. Recommend replacement of the culvert because of the substandard bridge width.
4	06812	Southbury	Route 64		Wooster Brook	25	53.08	3420	N	N	N	3	Recommend re-lining of culvert.
4	06815	Southbury	Route 172		Brook	25	36.99	602	N	N	N	4	Recommend re-lining of pipe.