



CITY OF AMESBURY
IN THE YEAR TWO THOUSAND TWENTY-TWO

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CITY OF AMESBURY, MA

SPONSORED BY: *Kassandra Gove* **BILL No. 2022- 117**
Kassandra Gove, Mayor

An Order to authorize the Mayor to accept and expend a grant in the amount of \$100,000 from the Massachusetts Department of Transportation's FY23 Municipal Small Bridge Program Phase 1 for the costs of design and permitting for bridge number A-07-020 (BW1) on Kimball Road over Tuxbury Pond Outlet.

Summary: The Municipal Small Bridge Program provides funding to municipalities for the replacement, preservation, and rehabilitation of eligible bridges. For this Phase 1 Grant, the City of Amesbury has retained TEC, Inc. (TEC) to provide engineering services for the replacement of the Kimball Road Bridge over Tuxbury Pond Outlet (A-07-020). The proposed scope of work is based on a full replacement of the structure using a full road closure and detour. The project will maintain profile, approach grades and roadway drainage throughout the corridor to the greatest extent practical and anticipates that the replacement structure shall be a precast-concrete box culvert, with a span greater than ten feet. It is anticipated that no alterations to the adjacent State Line Dam shall be necessary as part of this project. MassDOT is compensating design firms directly. Therefore, no funds are provided to the municipality for Phase 1 grants.

Be it Ordered by the City Council of the City of Amesbury assembled, and by the authority of the same as follows:

That the City of Amesbury authorizes the Mayor to accept and expend a grant in the amount of \$100,000 from the Massachusetts Department of Transportation's FY23 Municipal Small Bridge Program Phase 1 for the costs of design and permitting for bridge number A-07-020 (BW1) on Kimball Road over Tuxbury Pond Outlet.

MASSDOT STANDARD CONTRACT FORM



This form is issued and published by the Massachusetts Department of Transportation (MassDOT or Department). Any changes to the official printed language of this form shall be void. Additional non-conflicting terms may be added by Attachment. Contractors may not require any additional agreements, engagement letters, contract forms or other additional terms as part of this Contract without prior Department approval. Click on hyperlinks for definitions, instructions and legal requirements that are incorporated by reference into this Contract.

CONTRACTOR LEGAL NAME: CITY OF AMESBURY (and d/b/a):	DEPARTMENT NAME: Massachusetts Department of Transportation MMARS Department Code: DOT
Legal Address: (W-9, W-4, T&C): 39 S Hunt Road	Business Mailing Address: 10 Park Plaza, Boston MA 02116
Contract Manager: Rob Desmarais	Billing Address (if different):
E-Mail: rob@amesburyma.gov	Contract Manager: Cassandra Gascon
Phone: (978) 388-8116 Fax:	E-Mail: Cassandra.gascon@dot.state.ma.us
Contractor Vendor Code: VC6000191694	Phone: (857) 368-4636 Fax: n/a
Vendor Code Address ID (e.g. "AD001"): AD (Note: The Address ID must be set up for EFT payments.)	MMARS Doc ID(s):
RFR/Procurement or Other ID Number:	
<input checked="" type="checkbox"/> NEW CONTRACT PROCUREMENT OR EXCEPTION TYPE: (Check one option only) <input type="checkbox"/> Statewide Contract (OSD or an OSD-designated Department) <input type="checkbox"/> Collective Purchase (Attach OSD approval, scope, budget) <input type="checkbox"/> Department Procurement (includes State or Federal grants 815 CMR 2.00) (Attach RFR and Response or other procurement supporting documentation) <input type="checkbox"/> Emergency Contract (Attach justification for emergency, scope, budget) <input type="checkbox"/> Contract Employee (Attach Employment Status Form, scope, budget) <input checked="" type="checkbox"/> Other Procurement Exception: (Attach authorizing language/justification, scope and budget)	<input type="checkbox"/> CONTRACT AMENDMENT Enter Current Contract End Date <i>Prior</i> to Amendment: _____, 20____ Enter Amendment Amount: \$ _____ (or "no change") AMENDMENT TYPE: (Check one option only. Attach details of Amendment changes.) <input type="checkbox"/> Amendment to Date, Scope or Budget (Attach updated scope and budget) <input type="checkbox"/> Interim Contract (Attach justification for Interim Contract and updated scope/budget) <input type="checkbox"/> Contract Employee (Attach any updates to scope or budget) <input type="checkbox"/> Other Procurement Exception: (Attach authorizing language/justification and updated scope and budget)
The Standard Contract Form Instructions, Contractor Certifications and the MassDOT Terms and Conditions documents are incorporated by reference into this Contract and are legally binding <input checked="" type="checkbox"/> MassDOT TERMS AND CONDITIONS <input type="checkbox"/> MassDOT IT TERMS AND CONDITIONS	
COMPENSATION: (Check ONE option): The Department certifies that payments for authorized performance accepted in accordance with the terms of this Contract will be supported in the state accounting system by sufficient appropriations or other non-appropriated funds, subject to intercept for MassDOT/Commonwealth owed debts under 815 CMR 9.00. <input type="checkbox"/> Rate Contract (No Maximum Obligation. Attach details of all rates, units, calculations, conditions or terms and any changes if rates or terms are being amended.) <input checked="" type="checkbox"/> Maximum Obligation Contract Enter Total Maximum Obligation for total duration of this Contract (or <i>new</i> Total if Contract is being amended). \$100,000.00.	
PROMPT PAYMENT DISCOUNTS (PPD): Commonwealth payments are issued through EFT 45 days from invoice receipt. Contractors requesting accelerated payments must identify a PPD as follows: Payment issued within 10 days ___% PPD; Payment issued within 15 days ___% PPD; Payment issued within 20 days ___% PPD; Payment issued within 30 days ___% PPD. If PPD percentages are left blank, identify reason: <input checked="" type="checkbox"/> agree to standard 45 day cycle ___ statutory/legal or Ready Payments (G.L. c. 29, § 23A); ___ only initial payment (subsequent payments scheduled to support standard EFT 45 day payment cycle. See Prompt Pay Discounts Policy.)	
BRIEF DESCRIPTION OF CONTRACT PERFORMANCE or REASON FOR AMENDMENT: (Enter the Contract title, purpose, fiscal year(s) and a detailed description of the scope of performance or what is being amended for a Contract Amendment. Attach all supporting documentation and justifications.) An agreement between MassDOT and the CITY OF AMESBURY for design funding provided through the Municipal Small Bridge Program.	
ANTICIPATED START DATE: (Complete ONE option only) The Department and Contractor certify for this Contract, or Contract Amendment, that Contract obligations: <input checked="" type="checkbox"/> 1. may be incurred as of the Effective Date (latest signature date below) and no obligations have been incurred prior to the Effective Date. <input type="checkbox"/> 2. may be incurred as of _____, 20____, a date LATER than the Effective Date below and no obligations have been incurred prior to the Effective Date. <input type="checkbox"/> 3. were incurred as of _____, 20____, a date PRIOR to the Effective Date below, and the parties agree that payments for any obligations incurred prior to the Effective Date are authorized to be made either as settlement payments or as authorized reimbursement payments, and that the details and circumstances of all obligations under this Contract are attached and incorporated into this Contract. Acceptance of payments forever releases the Commonwealth and MassDOT from further claims related to these obligations.	
CONTRACT END DATE: Contract performance shall terminate as of <u>December 31, 2023</u> , with no new obligations being incurred after this date unless the Contract is properly amended, provided that the terms of this Contract and performance expectations and obligations shall survive its termination for the purpose of resolving any claim or dispute, for completing any negotiated terms and warranties, to allow any close out or transition performance, reporting, invoicing or final payments, or during any lapse between amendments.	
CERTIFICATIONS: Notwithstanding verbal or other representations by the parties, the "Effective Date" of this Contract or Amendment shall be the latest date that this Contract or Amendment has been executed by an authorized signatory of the Contractor, the Department, or a later Contract or Amendment Start Date specified above, subject to any required approvals. The Contractor certifies that they have accessed and reviewed all documents incorporated by reference as electronically published and the Contractor makes all certifications required under the Standard Contract Form Instructions and Contractor Certifications under the pains and penalties of perjury, and further agrees to provide any required documentation upon request to support compliance, and agrees that all terms governing performance of this Contract and doing business in Massachusetts are attached or incorporated by reference herein according to the following hierarchy of document precedence, the MassDOT Terms and Conditions https://www.mass.gov/doc/massdot-terms-and-conditions-0/download or IT Terms and Conditions, this Standard Contract Form, the Standard Contract Form Instructions, Contractor Certifications, the Request for Response (RFR) or other solicitation, the Contractor's Response, and additional negotiated terms, provided that additional negotiated terms will take precedence over the relevant terms in the RFR and the Contractor's Response only if made using the process outlined in 801 CMR 21.07 , incorporated herein, provided that any amended RFR or Response terms result in best value, lower costs, or a more cost effective Contract.	
AUTHORIZING SIGNATURE FOR THE CONTRACTOR: X: <u>Kassandra Cove</u> Date: <u>8-8-22</u> (Signature and Date Must Be Handwritten At Time of Signature or conform to the MassDOT Electronic Signature Policy, as in effect from time to time) Print Name: <u>Kassandra Cove</u> Print Title: <u>Mayor</u>	AUTHORIZING SIGNATURE FOR MassDOT: X: _____ Date: _____ (Signature and Date Must Be Handwritten At Time of Signature, or conform to the MassDOT Electronic Signature Policy, as in effect from time to time) Print Name: _____ Print Title: _____



INSTRUCTIONS

The following instructions, Contractor Certifications and the MassDOT Terms and Conditions are incorporated by reference into an executed MassDOT Standard Contract Form. Instructions are provided to assist with Completion of the MassDOT Standard Contract Form. Additional terms are incorporated by reference. Links to legal citations are to unofficial versions and Contractors should consult with their legal counsel to ensure compliance with all legal requirements. Please note that not all applicable laws have been cited.

CONTRACTOR LEGAL NAME (AND D/B/A): Enter the Full Legal Name of the Contractor's business as it appears on the Contractor's W-9 or W-4 Form (Contract Employees only) and the MassDOT Terms and Conditions If Contractor also has a "doing business as" (d/b/a) name, BOTH the legal name and the "d/b/a" name must appear in this section.

Contractor Legal Address: Enter the Legal Address of the Contractor as it appears on the Contractor's W-9 or W-4 Form (Contract Employees only) and the MassDOT Terms and Conditions, which must match the legal address on the 1099I table in MMARS (or the Legal Address in HR/CMS for Contract Employee).

Contractor Contract Manager: Enter the authorized Contract Manager who will be responsible for managing the Contract. The Contract Manager should be an Authorized Signatory or, at a minimum, a person designated by the Contractor to represent the Contractor, receive legal notices and negotiate ongoing Contract issues. The Contract Manager is considered "Key Personnel" and may not be changed without the prior written approval of the Department. If the Contract is posted on COMMBUYS, the name of the Contract Manager must be included in the Contract on COMMBUYS.

Contractor E-Mail Address/Phone/Fax: Enter the electronic mail (e-mail) address, phone and fax number of the Contractor Contract Manager. This information must be kept current by the Contractor to ensure that the Department can contact the Contractor and provide any required legal notices. Notice received by the Contract Manager (with confirmation of actual receipt) through the listed address, fax number(s) or electronic mail address will meet any written legal notice requirements.

Contractor Vendor Code: The Department must enter the MMARS Vendor Code assigned by the Commonwealth. If a Vendor Code has not yet been assigned, leave this space blank and the Department will complete this section when a Vendor Code has been assigned. The Department is responsible under the Vendor File and W-9s Policy for verifying with authorized signatories of the Contractor, as part of contract execution, that the legal name, address and Federal Tax Identification Number (TIN) in the Contract documents match the state accounting system.

Vendor Code Address ID: (e.g., "AD001") The Department must enter the MMARS Vendor Code Address ID identifying the payment remittance address for Contract payments, which MUST be set up for EFT payments PRIOR to the first payment under the Contract in accordance with the Bill Paying and Vendor File and W-9 policies.

COMMONWEALTH DEPARTMENT NAME: Enter the full Department name with the authority to obligate funds encumbered for the Contract.

Commonwealth MMARS Alpha Department Code: Enter the three (3) letter MMARS Code assigned to this Commonwealth Department in the state accounting system.

Department Business Mailing Address: Enter the address where all formal correspondence to the Department must be sent. Unless otherwise specified in the Contract, legal notice sent or received by the Department's Contract Manager (with confirmation of actual receipt) through the listed address, fax number(s) or electronic mail address for the Contract Manager will meet any requirements for legal notice.

Department Billing Address: Enter the Billing Address or email address if invoices must be sent to a different location. Billing or confirmation of delivery of performance issues should be resolved through the listed Contract Managers.

Department Contract Manager: Identify the authorized Contract Manager who will be responsible for managing the Contract, who should be an authorized signatory or an employee designated by the Department to represent the Department to receive legal notices and negotiate ongoing Contract issues.

Department E-Mail Address/Phone/Fax: Enter the electronic mail (e-mail) address, phone and fax number of the Department Contract Manager. Unless otherwise specified in the Contract, legal notice sent or received by the Contract Manager (with confirmation of actual receipt) through the listed address, fax number(s) or electronic mail address will meet any requirements for written notice under the Contract.

MMARS Document ID(s): Enter the MMARS 20 character encumbrance transaction number associated with this Contract which must remain the same for the life of the Contract. If multiple numbers exist for this Contract, identify all Doc Ids.

RFR/Procurement or Other ID Number or Name: Enter the Request for Response (RFR) or other Procurement Reference number, Contract ID Number or other reference/tracking number for this Contract or Amendment and will be entered into the Board Award Field in the MMARS encumbrance transaction for this Contract.

NEW CONTRACTS (left side of Form):

Complete this section ONLY if this Contract is brand new. (Complete the CONTRACT AMENDMENT section for any material changes to an existing or an expired Contract, and for exercising options to renew or annual contracts under a multi-year procurement or grant program.)

PROCUREMENT OR EXCEPTION TYPE: Check the appropriate type of procurement or exception for this Contract. Only one option can be selected. See the Office of the Comptroller Guidance for Vendors Policies ([State Finance Law and General Requirements, Acquisition Policy and Fixed Assets](#)) and the Operational Services Division Conducting Best Value Procurements Handbook for details.

Statewide Contract (OSD or an OSD-designated Department). Check this option for a Statewide Contract under OSD, or by an OSD-designated Department.

Collective Purchase approved by OSD. Check this option for Contracts approved by OSD for collective purchases through federal, state, local government or other entities.

Department Procurement. Check this option for a Department procurement including state grants and federal sub-grants under [815 CMR 2.00](#) and State Grants and Federal Subgrants Policy, Departmental Master Agreements (MA). If multi-Department user Contract, identify multi-Department use is allowable in Brief Description.

Emergency Contract. Check this option when the Department has determined that an unforeseen crisis or incident has arisen which requires or mandates immediate purchases to avoid substantial harm to the functioning of government or the provision of necessary or mandated services or whenever the health, welfare or safety of clients or other persons or serious damage to property is threatened.

Contract Employee. Check this option when the Department requires the performance of an Individual Contractor, and when the planned Contract performance with an Individual has been classified using the Employment Status Form (prior to the Contractor's selection) as work of a Contract Employee and not that of an Independent Contractor.

Other Procurement Exception. Check this option when another procurement exception exists, such as legislation with specific language naming the Contractor as a recipient of a grant or contract, an existing legal obligation, a prohibition or other circumstance that exempts or prohibits a Contract from being competitively procured, or identify any other procurement exception not already listed. Legislative "earmarks" exempt the Contract solely from procurement requirements, and all other Contract and state finance laws and policies apply. Supporting documentation must be attached to explain and justify the exemption.

CONTRACT AMENDMENT (Right Side of Form)

Complete this section for any Contract being renewed, amended or to continue a lapsed Contract. All Contracts with available options to renew must be amended referencing the original procurement and Contract doc ids, since all continuing contracts must be maintained in the same Contract file (even if the underlying appropriation changes each fiscal year.) *See Amendments, Suspensions, and Termination Policy.)

Enter Current Contract End Date: Enter the termination date of the Current Contract being amended, even if this date has already passed. (Note: Current Start Date is not requested since this date does not change and is already recorded in MMARS.)

Enter Amendment Amount: Enter the amount of the Amendment increase or decrease to a Maximum Obligation Contract. Enter "no change" for Rate Contracts or if no change.

AMENDMENT TYPE: Identify the type of Amendment being done. Documentation supporting the updates to performance and budget must be attached.

Amendment to Date, Scope or Budget. Check this option when renewing a Contract or executing an Amendment ("material change" in Contract terms) even if the Contract has lapsed. The parties may negotiate a change in any element of Contract performance or cost identified in the RFR or the Contractor's response which results in lower costs, or a more cost-effective or better value performance than was presented in the original selected response, provided the negotiation results in a better value within the scope of the RFR than what was proposed by the Contractor in the original selected response. Any "material" change in the Contract terms must be memorialized in a formal Amendment even if a corresponding MMARS transaction is not needed to support the change. Additional negotiated terms will take precedence over the relevant terms in the RFR and the Contractor's Response only if made using the process outlined in [801 CMR 21.07](#), incorporated herein, provided that any amended RFR or Response terms result in best value, lower costs, or a more cost effective Contract.

Interim Contracts. Check this option for an Interim Contract to prevent a lapse of Contract performance whenever an existing Contract is being re-procured but the new procurement has not been completed, to bridge the gap during implementation between an expiring and a new procurement, or to contract with an interim Contractor when a current Contractor is unable to complete full performance under a Contract.

Contract Employee. Check this option when the Department requires a renewal or other amendment to the performance of a Contract Employee.

Other Procurement Exception. Check this option when another procurement exception exists, such as legislation with specific language naming the Contractor as a recipient of a grant or contract, an existing legal obligation, prohibition or other circumstance exempts or prohibits a Contract from being competitively procured, or identify any other procurement exception not already listed. Legislative "earmarks" exempt the Contract solely from



MASSDOT STANDARD CONTRACT FORM

procurement requirements, and all other Contract and state finance laws and policies apply. Attach supporting documentation to explain and justify the exemption and whether Contractor selection has been publicly posted.

the Commonwealth and MassDOT from further obligations for the identified performance. All settlement payments require justification and must be under same encumbrance and object codes as the Contract payments. Performance dates are subject to [G.L. c.4, §9](#).

MASSDOT TERMS AND CONDITIONS

Identify whether the MassDOT [Terms and Conditions](#) (TC) or the MassDOT IT Terms and Conditions (TC-IT) is incorporated by reference into this Contract. The Comptroller Expenditure Classification Handbook identifies the applicable Commonwealth Terms and Conditions based upon the object code for the contract.

CONTRACT END DATE

The Department must enter the date that Contract performance will terminate. **If the Contract is being amended and the Contract End Date is not changing, this date must be re-entered again here.** A Contract must be signed for at least the initial duration but not longer than the period of procurement listed in the RFR, or other solicitation document (if applicable). No new performance is allowable beyond the end date without an amendment, but the Department may allow a Contractor to complete minimal close out performance obligations if substantial performance has been made prior to the termination date of the Contract and prior to the end of the fiscal year in which payments are appropriated, provided that any close out performance is subject to appropriation and funding limits under state finance law, and CTR may adjust encumbrances and payments in the state accounting system to enable final close out payments. Performance dates are subject to [G.L. c.4, §9](#).

COMPENSATION

Identify if the Contract is a **Rate Contract** (with no stated Maximum Obligation) or a **Maximum Obligation Contract** (with a stated Maximum Obligation) and identify the Maximum Obligation. If the Contract is being amended, enter the new Maximum Obligation based upon the increase or decreasing Amendment. The Total Maximum Obligation must reflect the total funding for the dates of service under the contract, including the Amendment amount if the Contract is being amended. The Maximum Obligation must match the MMARS encumbrance. Funding and allotments must be verified as available and encumbered prior to incurring obligations. If a Contract includes both a Maximum Obligation component and Rate Contract component, check off both, specific Maximum Obligation amounts or amended amounts and Attachments must clearly outline the Contract breakdown to match the encumbrance.

CONTRACTOR AUTHORIZED SIGNATORIES FOR EXECUTION

See Comptroller policies entitled Department Head Signature Authorization Policy and the Contractor Authorized Signatory Listing for policies on Contractor and Department signatures for guidance.

PAYMENTS AND PROMPT PAY DISCOUNTS

Payments are processed within a 45 day payment cycle through EFT in accordance with the Commonwealth Bill Paying Policy for investment and cash flow purposes. Departments may NOT negotiate accelerated payments and Payees are NOT entitled to accelerated payments UNLESS a prompt payment discount (PPD) is provided to support the Commonwealth's and MassDOT's loss of investment earnings for this earlier payment, or unless a payments is legally mandated to be made in less than 45 days (e.g., construction contracts, Ready Payments under [G.L. c. 29, s. 23A](#)). See Prompt Pay Discounts Policy. PPD are identified as a percentage discount which will be automatically deducted when an accelerated payment is made. Reduced contracts rates may not be negotiated to replace a PPD. If PPD fields are left blank please identify that the Contractor agrees to the standard 45 day cycle; a statutory/legal exemption such as Ready Payments ([G.L. c. 29, § 23A](#)); or only an initial accelerated payment for reimbursements or start up costs for a grant, with subsequent payments scheduled to support standard EFT 45 day payment cycle. Financial hardship is not a sufficient justification to accelerate cash flow for all payments under a Contract. Initial grant or contract payments may be accelerated for the first invoice or initial grant installment, but subsequent periodic installments or invoice payments should be scheduled to support the Payee cash flow needs and the standard 45 day EFT payment cycle in accordance with the Bill Paying Policy. Any accelerated payment that does not provide for a PPD must have a legal justification in Contract file for audit purposes explaining why accelerated payments were allowable without a PPD.

Authorizing Signature for Contractor/Date: The Authorized Contractor Signatory must (in their own handwriting and in ink) sign AND enter the date the Contract is signed. See section above under "Anticipated Contract Start Date". Acceptance of payment by the Contractor shall waive any right of the Contractor to claim the Contract/Amendment is not valid and the Contractor may not void the Contract. **Rubber stamps, typed or other images are not acceptable.** Proof of Contractor signature authorization on a **Contractor Authorized Signatory Listing** may be required by the Department if not already on file. **Electronic or digital signatures are permitted pursuant to the MassDOT Electronic Signature Policy.**

Contractor Name /Title: The Contractor Authorized Signatory's name and title must appear legibly as it appears on the **Contractor Authorized Signatory Listing**.

Authorizing Signature For Department/Date: The Authorized Department Signatory must (in their own handwriting and in ink) sign AND enter the date the Contract is signed. See section above under "Anticipated Start Date". **Rubber stamps, typed or other images are not accepted.** The Authorized Signatory must be an employee within the Department legally responsible for the Contract. See Department Head Signature Authorization. The Department must have the legislative funding appropriated for all the costs of this Contract or funding allocated under an approved Interdepartmental Service Agreement (ISA). A Department may not contract for performance to be delivered to or by another state department without specific legislative authorization (unless this Contract is a Statewide Contract). For Contracts requiring Secretariat signoff, evidence of Secretariat signoff must be included in the Contract file.

Department Name /Title: Enter the Authorized Signatory's name and title legibly.

BRIEF DESCRIPTION OF CONTRACT PERFORMANCE

Enter a brief description of the Contract performance, project name and/or other identifying information for the Contract to specifically identify the Contract performance, match the Contract with attachments, determine the appropriate expenditure code (as listed in the [Expenditure Classification Handbook](#)) or to identify or clarify important information related to the Contract such as the Fiscal Year(s) of performance (ex. "FY2012" or "FY2012-14"). Identify settlements or other exceptions and attach more detailed justification and supporting documents. Enter "Multi-Department Use" if other Departments can access procurement. For Amendments, identify the purpose and what items are being amended. Merely stating "see attached" or referencing attachments without a narrative description of performance is insufficient.

CONTRACTOR CERTIFICATIONS AND LEGAL REFERENCES

Notwithstanding verbal or other representations by the parties, the "Effective Date" of this Contract or Amendment shall be the latest date that this Contract or Amendment has been executed by an authorized signatory of the Contractor, the Department, or a later Contract or Amendment Start Date specified, subject to any required approvals. The Contractor makes all certifications required under this Contract under the pains and penalties of perjury, and agrees to provide any required documentation upon request to support compliance, and agrees that all terms governing performance of this Contract and doing business in Massachusetts are attached or incorporated by reference herein:

MassDOT and Contractor Ownership Rights. The Contractor certifies and agrees that MassDOT is entitled to ownership and possession of all "deliverables" purchased or developed with Contract funds. A Department may not relinquish rights to deliverables nor may Contractors sell products developed with MassDOT resources without just compensation. The Contract should detail all MassDOT deliverables and ownership rights and any Contractor proprietary rights.

Qualifications. The Contractor certifies it is qualified and shall at all times remain qualified to perform this Contract; that performance shall be timely and meet or exceed industry standards for the performance required, including obtaining requisite licenses, registrations, permits, resources for performance, and sufficient professional, liability; and other appropriate insurance to cover the performance. If the Contractor is a business, the Contractor certifies that it is listed under the Secretary of State's website as licensed to do business in Massachusetts, as required by law.

Laws and Regulations Prohibiting Discrimination and Human Trafficking. Contractors acknowledge and certify as a condition of this Contract that they are responsible for complying fully with all state and federal laws prohibiting discrimination, human trafficking, and forced labor, including but not limited to Chapter 178 of the Acts of 2011.

Business Ethics and Fraud, Waste and Abuse Prevention. The Contractor certifies that performance under this Contract, in addition to meeting the terms of the Contract, will be

ANTICIPATED START DATE

The Department and Contractor must certify when obligations under this Contract/Amendment may be incurred. Option 1 is the default option when performance may begin as of the Effective Date (latest signature date and any required approvals). If the parties want a new Contract or renewal to begin as of the upcoming fiscal year then list the fiscal year(s) (ex. "FY2012" or "FY2012-14") in the Brief Description section. Performance starts and encumbrances reflect the default Effective Date (if no FY is listed) or the later FY start date (if a FY is listed). Use Option 2 only when the Contract will be signed well in advance of the start date and identify a specific future start date. Do not use Option 2 for a fiscal year start unless it is certain that the Contract will be signed prior to fiscal year. Option 3 is used in lieu of the Settlement and Release Form when the Contract/Amendment is signed late, and obligations have already been incurred by the Contractor prior to the Effective Date for which the Department has either requested, accepted or deemed legally eligible for reimbursement, and the Contract includes supporting documents justifying the performance or proof of eligibility, and approximate costs. Any obligations incurred outside the scope of the Effective Date under any Option listed, even if the incorrect Option is selected, shall be automatically deemed a settlement included under the terms of the Contract and upon payment to the Contractor will release

MASSDOT STANDARD CONTRACT FORM



made using ethical business standards and good stewardship of taxpayer and other public funding and resources to prevent fraud, waste and abuse.

Collusion. The Contractor certifies that this Contract has been offered in good faith and without collusion, fraud or unfair trade practices with any other person, that any actions to avoid or frustrate fair and open competition are prohibited by law, and shall be grounds for rejection or disqualification of a Response or termination of this Contract.

Public Records and Access The Contractor shall provide full access to records related to performance and compliance to the Department and officials listed under [Executive Order 195](#) and [G.L. c. 11, s. 12](#) for six (6) years beginning on the first day after the final payment under this Contract or such longer period necessary for the resolution of any litigation, claim, negotiation, audit or other inquiry involving this Contract. Access to view Contractor records related to any breach or allegation of fraud, waste and/or abuse may not be denied and Contractor can not claim confidentiality or trade secret protections solely for viewing but not retaining documents. Routine Contract performance compliance reports or documents related to any alleged breach or allegation of non-compliance, fraud, waste, abuse or collusion may be provided electronically and shall be provided at Contractor's own expense. Reasonable costs for copies of non-routine Contract related records shall not exceed the rates for public records under [950 C.M.R. 32.00](#).

Debarment. The Contractor certifies that neither it nor any of its subcontractors are currently debarred or suspended by the federal or state government under any law or regulation including, [Executive Order 147](#); [G.L. c. 29, s. 29F](#); [G.L. c. 30, § 39R](#); [G.L. c. 149, § 27C](#); [G.L. c. 149, § 44C](#); [G.L. c. 149, § 148B](#) and [G.L. c. 152, s. 25C](#).

Applicable Laws. The Contractor shall comply with all applicable state laws and regulations including but not limited to the applicable [Massachusetts General Laws](#); the Official [Code of Massachusetts Regulations](#); [Code of Massachusetts Regulations](#) (unofficial); [801 CMR 21.00](#) (Procurement of Commodity and Service Procurements, Including Human and Social Services); [815 CMR 2.00](#) (Grants and Subsidies); [808 CMR 1.00](#) (Compliance, Reporting and Auditing for Human And Social Services); [AICPA Standards](#); confidentiality of Department records under [G.L. c. 66A](#); and the [Massachusetts Constitution Article XVIII](#) if applicable.

Invoices. The Contractor must submit invoices in accordance with the terms of the Contract and the Commonwealth Bill Paying Policy. Contractors must be able to reconcile and properly attribute concurrent payments from multiple Departments. Final invoices in any fiscal year must be submitted no later than August 15th for performance made and received (goods delivered, services completed) prior to June 30th, in order to make payment for that performance prior to the close of the fiscal year to prevent reversion of appropriated funds. Failure to submit timely invoices by August 15th or other date listed in the Contract shall authorize the Department to issue an estimated payment based upon the Department's determination of performance delivered and accepted. The Contractor's acceptance of this estimated payment releases the Commonwealth and MassDOT from further claims for these invoices. If **budgetary funds revert due to the Contractor's failure to submit timely final invoices, or for disputing an estimated payment, the Department may deduct a penalty up to 10% from any final payment in the next fiscal year for failure to submit timely invoices.**

Payments Subject To Appropriation. Pursuant to [G.L. c. 29 § 26, § 27](#) and [§ 29](#), Departments are required to expend funds only for the purposes set forth by the Legislature and within the funding limits established through appropriation, allotment and subsidiary, including mandated allotment reductions triggered by [G.L. c. 29, § 9C](#). A Department cannot authorize or accept performance in excess of an existing appropriation and allotment, or sufficient non-appropriated available funds. Any oral or written representations, commitments, or assurances made by the Department or any other Commonwealth representative are not binding. The Commonwealth and MassDOT have no legal obligation to compensate a Contractor for performance that is not requested and is intentionally delivered by a Contractor outside the scope of a Contract. Contractors should verify funding prior to beginning performance.

Intercept. Contractors may be registered as Customers in the Vendor file if the Contractor owes a Commonwealth debt. Unresolved and undisputed debts, and overpayments of Contract payments that are not reimbursed timely shall be subject to intercept pursuant to [G.L. c. 7A, s. 3](#) and [815 CMR 9.00](#). Contract overpayments will be subject to immediate intercept or payment offset. The Contractor may not penalize any state Department or assess late fees, cancel a Contract or other services if amounts are intercepted or offset due to recoupment of an overpayment, outstanding taxes, child support, other overdue debts or Contract overpayments.

Tax Law Compliance. The Contractor certifies under the pains and penalties of perjury: (1) tax compliance with federal tax laws; (2) tax compliance with state tax laws including, but not limited to [G.L. c. 62C](#), [G.L. c. 62C, s. 49A](#), reporting of employees and contractors, withholding and remitting of tax withholdings and child support; and (3) Contractor is in good standing with respect to all state taxes and returns due; reporting of employees and contractors under [G.L. c. 62E](#), withholding and remitting child support including [G.L. c. 119A, s. 12](#); TIR 05-11; New Independent Contractor Provisions and applicable TIRs.

Bankruptcy, Judgments, Potential Structural Changes, Pending Legal Matters and Conflicts. The Contractor certifies it has not been in bankruptcy and/or receivership within the last three calendar years, and the Contractor certifies that it will immediately notify the Department in writing at least 45 days prior to filing for bankruptcy and/or receivership,

any potential structural change in its organization, or if there is any risk to the solvency of the Contractor that may impact the Contractor's ability to timely fulfill the terms of this Contract or Amendment. The Contractor certifies that at any time during the period of the Contract the Contractor is required to affirmatively disclose in writing to the Department Contract Manager the details of any judgment, criminal conviction, investigation or litigation pending against the Contractor or any of its officers, directors, employees, agents, or subcontractors, including any potential conflicts of interest of which the Contractor has knowledge, or learns of during the Contract term. Law firms or Attorneys providing legal services are required to identify any potential conflict with representation of any Department client in accordance with Massachusetts Board of Bar Overseers (BBO) rules.

Federal Anti-Lobbying and Other Federal Requirements. If receiving federal funds, the Contractor certifies compliance with federal anti-lobbying requirements including 31 USC 1352; other federal requirements; Executive Order 11246; Air Pollution Act; Federal Water Pollution Control Act and Federal Employment Laws.

Protection of Commonwealth Data, Personal Data and Information. The Contractor certifies that all steps will be taken to ensure the security and confidentiality of all Commonwealth/MassDOT data for which the Contractor becomes a holder, either as part of performance or inadvertently during performance, with special attention to restricting access, use and disbursement of personal data and information under [M.G.L. c. 93H](#) and [c. 66A](#) and other applicable state and federal privacy requirements. The Contractor shall comply with [M.G.L. c. 93I](#) for the proper disposal of all paper and electronic media, backups or systems containing personal data and information. The Contractor shall also ensure that any personal data or information transmitted electronically or through a portable device is properly encrypted using (at a minimum) the Commonwealth's "Cryptographic Management Standard" set forth in the Enterprise Information Security Policies and Standards published by the Executive Office for Technology, Services and Security (TSS), or a comparable Standard prescribed by the Department. Contractors with access to credit card or banking information of Commonwealth/MassDOT customers certify that the Contractor is PCI compliant in accordance with the Payment Card Industry Council Standards, and shall provide confirmation compliance during the Contract. The Contractor shall immediately notify the Department in the event of any security breach including the unauthorized access, disbursement, use or disposal of personal data or information, and in the event of a security breach, the Contractor shall cooperate fully with the Commonwealth/MassDOT and provide access to any information necessary for the Commonwealth/MassDOT to respond to the security breach and shall be fully responsible for any damages associated with the Contractor's breach including but not limited to [G.L. c. 214, s. 3B](#).

For all Contracts involving the Contractor's access to personal information, as defined in [G.L. c. 93H](#), and personal data, as defined in [G.L. c. 66A](#), or access to MassDOT systems containing such information or data, Contractor certifies under the pains and penalties of perjury that the Contractor (1) has read [M.G.L. c. 93H](#) and [c. 66A](#) and agrees to protect any and all personal information and personal data; and (2) has reviewed all of the Enterprise Information Security Policies and Standards published by the Executive Office for Technology Services and Security (TSS), or stricter standards prescribed by the Department. Notwithstanding any contractual provision to the contrary, in connection with the Contractor's performance under this Contract, for all public authorities, executive offices, boards, commissions, agencies, departments, divisions, councils, bureaus, and offices, now existing and hereafter established, the Contractor shall: (1) obtain a copy, review, and comply with any pertinent security guidelines, standards, and policies; (2) comply with all Enterprise Information Security Policies and Standards published by the Executive Office for Security Services and Technology (TSS), or a comparable set of policies and standards ("Information Security Policy") as prescribed by the Department; (3) communicate and enforce such security guidelines, standards, policies and the applicable Information Security Policy among all employees (whether such employees are direct or contracted) and subcontractors; (4) implement and maintain any other reasonable appropriate security procedures and practices necessary to protect personal information and data to which the Contractor is given access by the contracting Department from the unauthorized access, destruction, use, modification, disclosure or loss; (5) be responsible for the full or partial breach of any of these terms by its employees (whether such employees are direct or contracted) or subcontractors during or after the term of this Contract, and any breach of these terms may be regarded as a material breach of this Contract; (6) in the event of any unauthorized access, destruction, use, modification, disclosure or loss of the personal information or personal data (collectively referred to as the "unauthorized use"): (a) immediately notify the contracting Department if the Contractor becomes aware of the unauthorized use; (b) provide full cooperation and access to information necessary for the contracting Department to determine the scope of the unauthorized use; and (c) provide full cooperation and access to information necessary for the contracting Department and the Contractor to fulfill any notification requirements. Breach of these terms may be regarded as a material breach of this Contract, such that the Commonwealth and MassDOT may exercise any and all contractual rights and remedies, including without limitation indemnification under MassDOT's [Terms and Conditions](#) or IT Terms and Conditions, withholding of payments, Contract suspension, or termination. In addition, the Contractor may be subject to applicable statutory or regulatory penalties, including



MASSDOT STANDARD CONTRACT FORM

and without limitation, those imposed pursuant to G.L. c. 93H and under G.L. c. 214, § 3B for violations under M.G.L. c. 66A.

Corporate and Business Filings and Reports. The Contractor certifies compliance with any certification, filing, reporting and service of process requirements of the Secretary of the Commonwealth, the Office of the Attorney General or other Departments as related to its conduct of business in the Commonwealth; and with its incorporating state (or foreign entity).

Employer Requirements. Contractors that are employers certify compliance with applicable state and federal employment laws or regulations, including but not limited to G.L. c. 7, s. 22 (Prevailing Wages for Contracts for Meat Products and Clothing and Apparel); minimum wages and prevailing wage programs and payments; unemployment insurance and contributions; workers' compensation and insurance, child labor laws, AGO fair labor practices; G.L. c. 149 (Labor and Industries); G.L. c. 150A (Labor Relations); G.L. c. 151 and 455 CMR 2.00 (Minimum Fair Wages); G.L. c. 151A (Employment and Training); G.L. c. 151B (Unlawful Discrimination); G.L. c. 151E (Business Discrimination); G.L. c. 152 (Workers' Compensation); G.L. c. 153 (Liability for Injuries); 29 USC c. 8 (Federal Fair Labor Standards); 29 USC c. 28 and the Federal Family and Medical Leave Act and M.G.L. c. 175M (Family and Medical Leave).

Federal And State Laws And Regulations Prohibiting Discrimination Contractors certify compliance with applicable state and federal anti-discrimination laws, including but not limited to the Federal Equal Employment Opportunity (EEO) Laws the Americans with Disabilities Act; 42 U.S.C. Sec. 12,101, et seq., the Rehabilitation Act, 29 USC c. 16 s. 794; 29 USC c. 16 s. 701; 29 USC c. 14, 623; the 42 USC c. 45; (Federal Fair Housing Act); G.L. c. 151B (Unlawful Discrimination); G.L. c. 151E (Business Discrimination); the Public Accommodations Law G.L. c. 272, s. 92A; G.L. c. 272, s. 98 and 98A, Massachusetts Constitution Article CXIV and G.L. c. 93, s. 103; 47 USC c. 5, sc. II, Part II, s. 255 (Telecommunication Act; Chapter 149, Section 105D, G.L. c. 151C, G.L. c. 272, Section 92A, Section 98 and Section 98A, and G.L. c. 111, Section 199A, and Massachusetts Disability-Based Non-Discrimination Standards For Executive Branch Entities, and related Standards and Guidance, authorized under Massachusetts Executive Order or any disability-based protection arising from state or federal law or precedent. See also MCAD and MCAD links and Resources.

Small Business Purchasing Program (SBPP). A Contractor may be eligible to participate in the SBPP, created pursuant to Executive Order 523, if qualified through the SBPP COMMBUY'S subscription process at: www.commbuys.com and with acceptance of the terms of the SBPP participation agreement.

Limitation of Liability. Contracts may not use the following limitation on liability language unless approved by legal staff at the Office of the Comptroller or Operational Services Division and it may not be used if MassDOT is using the IT Terms and Conditions. The term "other damages" in Section 11 of the MassDOT Terms and Conditions, "Indemnification," shall include, but shall not be limited to, the reasonable costs the Commonwealth/MassDOT incurs to repair, return, replace or seek cover (purchase of comparable substitute commodities and services) under a Contract. "Other damages" shall not include damages to the Commonwealth/MassDOT as a result of third party claims, provided that this in no way limits the Commonwealth's or MassDOT's right of recovery for personal injury or property damages or patent and copyright infringement under Section 11 or the Commonwealth's/MassDOT's ability to join the contractor as a third party defendant. Further, the term "other damages" shall not include, and in no event shall the contractor be liable for, damages for the Commonwealth's or MassDOT's use of contractor provided products or services, loss of Commonwealth or MassDOT's records, or data (or other intangible property), loss of use of equipment, lost revenue, lost savings or lost profits of the Commonwealth or MassDOT. In no event shall "other damages" exceed the greater of \$100,000, or two times the value of the product or service (as defined in the Contract scope of work) that is the subject of the claim. Section 11 sets forth the Contractor's entire liability under a Contract. Nothing in this section shall limit the Commonwealth's or MassDOT's ability to negotiate higher limitations of liability in a particular Contract, provided that any such limitation must specifically reference Section 11 of the MassDOT Terms and Conditions. In the event the limitation of liability conflicts with accounting standards which mandate that there can be no cap of damages, the limitation shall be considered waived for that audit engagement. The terms of this Clarification may not be modified.

Northern Ireland Certification. Pursuant to G.L. c. 7 s. 22C for state agencies, state authorities, the House of Representatives or the state Senate, by signing this Contract the Contractor certifies that it does not employ ten or more employees in an office or other facility in Northern Ireland and if the Contractor employs ten or more employees in an office or other facility located in Northern Ireland the Contractor certifies that it does not discriminate in employment, compensation, or the terms, conditions and privileges of employment on account of religious or political belief; and it promotes religious tolerance within the work place, and the eradication of any manifestations of religious and other illegal discrimination; and the Contractor is not engaged in the manufacture, distribution or sale of firearms, munitions, including rubber or plastic bullets, tear gas, armored vehicles or military aircraft for use or deployment in any activity in Northern Ireland.

Pandemic, Disaster or Emergency Performance. In the event of a serious emergency, pandemic or disaster outside the control of the Department, the Department may negotiate

emergency performance from the Contractor to address the immediate needs of the MassDOT even if not contemplated under the original Contract or procurement. Payments are subject to appropriation and other payment terms.

Attorneys. Attorneys or firms providing legal services or representing MassDOT may be subject to G.L. c. 30, s. 65, and if providing litigation services must be approved by the Office of the Attorney General to appear on behalf of a Department, and shall have a continuing obligation to notify the Commonwealth of any conflicts of interest arising under the Contract.

Subcontractor Performance. The Contractor certifies full responsibility for Contract performance, including subcontractors, and that comparable Contract terms will be included in subcontracts, and that the Department will not be required to directly or indirectly manage subcontractors or have any payment obligations to subcontractors.

EXECUTIVE ORDERS

For covered Executive state Departments, the Contractor certifies compliance with applicable Massachusetts Executive Orders, including but not limited to the specific orders listed below. A breach during the period of a Contract may be considered a material breach and subject Contractor to appropriate monetary or Contract sanctions.

Executive Order 481. Prohibiting the Use of Undocumented Workers on State Contracts. For all state agencies in the Executive Branch, including all executive offices, boards, commissions, agencies, Departments, divisions, councils, bureaus, and offices, now existing and hereafter established, by signing this Contract the Contractor certifies under the pains and penalties of perjury that they shall not knowingly use undocumented workers in connection with the performance of this Contract; that, pursuant to federal requirements, they shall verify the immigration status of workers assigned to a Contract without engaging in unlawful discrimination; and shall not knowingly or recklessly alter, falsify, or accept altered or falsified documents from any such worker

Executive Order 130. Anti-Boycott. The Contractor warrants, represents and agrees that during the time this Contract is in effect, neither it nor any affiliated company, as hereafter defined, participates in or cooperates with an international boycott (See IRC § 999(b)(3)-(4), and IRS Audit Guidelines Boycotts) or engages in conduct declared to be unlawful by G.L. c. 151E, s. 2. If there is a breach in the warranty, representation, and agreement contained in this paragraph, without limiting such other rights as it may have, MassDOT and the Commonwealth may rescind this Contract. As used herein, an affiliated company shall be any business entity of which at least 51% of the ownership interests are directly or indirectly owned by the Contractor or by a person or persons or business entity or entities directly or indirectly owning at least 51% of the ownership interests of the Contractor, or which directly or indirectly owns at least 51% of the ownership interests of the Contractor, or which directly or indirectly owns at least 51% of the ownership interests of the Contractor.

Executive Order 346. Hiring of State Employees By State Contractors Contractor certifies compliance with both the conflict of interest law G.L. c. 268A specifically s. 5 (f) and this order, which includes limitations regarding the hiring of state employees by private companies contracting with the Commonwealth/MassDOT. A privatization contract shall be deemed to include a specific prohibition against the hiring at any time during the term of Contract, and for any position in the Contractor's company, of a state management employee who is, was, or will be involved in the preparation of the RFP, the negotiations leading to the awarding of the Contract, the decision to award the Contract, and/or the supervision or oversight of performance under the Contract.

Executive Order 444. Disclosure of Family Relationships With Other State Employees. Each person applying for employment (including Contract work) within the Executive Branch under the Governor must disclose in writing the names of all immediate family as well as persons related to immediate family by marriage who serve as employees or elected officials of the Commonwealth. All disclosures made by applicants hired by the Executive Branch under the Governor shall be made available for public inspection to the extent permissible by law by the official with whom such disclosure has been filed.

Executive Orders 523, 526 and 565. Executive Order 523 (Establishing the Massachusetts Small Business Purchasing Program). Executive Order 526 (Order Regarding Non-Discrimination, Diversity, Equal Opportunity and Affirmative Action which supersedes Executive Order 478). Executive Order 565 (Reaffirming and Expanding the Massachusetts Supplier Diversity Program). All programs, activities, and services provided, performed, licensed, chartered, funded, regulated, or contracted for by the state shall be conducted without unlawful discrimination based on race, color, age, gender, ethnicity, sexual orientation, gender identity or expression, religion, creed, ancestry, national origin, disability, veteran's status (including Vietnam-era veterans), or background. The Contractor and any subcontractors may not engage in discriminatory employment practices. The Contractor certifies compliance with applicable federal and state laws, rules, and regulations governing fair labor and employment practices. The Contractor also commits to purchase supplies and services from certified minority, women, veteran, service-disabled veteran, LGBT or disability-owned businesses, small businesses, or businesses owned by socially or economically disadvantaged persons; and Contractor commits to comply with any applicable Department contractual requirements pertaining to the employment of persons with disabilities pursuant to M.G.L. c. 7 s. 61(s). These provisions shall be enforced through the contracting Department, OSD, and/or the Massachusetts Commission

MASSDOT STANDARD CONTRACT FORM



Against Discrimination. Any breach shall be regarded as a material breach of the contract that may subject the contractor to appropriate sanctions.

SCOPE OF WORK: Amesbury Small Bridge – Kimball Road over Tuxbury Pond Outlet

The City of Amesbury (Client) has retained TEC, Inc. (TEC) to provide engineering services for the replacement of the Kimball Road Bridge over Tuxbury Pond Outlet (A-07-020) in the City of Amesbury.

The proposed scope of work is based on a full replacement of the structure using a full road closure and detour. The project will maintain profile, approach grades and roadway drainage throughout the corridor to the greatest extent practical and anticipates that the replacement structure shall be a precast-concrete box culvert, with a span greater than ten feet. It is anticipated that no alterations to the adjacent State Line Dam shall be necessary as part of this project.

Task 1 – Wetland Delineation and Site Survey **(\$10,000)**

- TEC's Subconsultant shall perform wetland delineations at the bridge location including placement of numbered sequences of flags by a qualified wetland scientist to identify and delineate the boundary and type of wetland resources present within 100 feet of the limits of work at the bridge, including a wetland report with DEP Field Delineation forms.
- Perform a field survey (including topographic, utility and boundary survey) of the project limits and within 100' of structure per MassDOT LRFD Bridge Manual. Field survey will extend 25' off the edge of pavement or curb line.
- Establish survey control on Massachusetts State Plane Coordinate System (NAD83) and North American Vertical Datum of 1988.
- Bridge grid survey per MassDOT's LRFD Bridge Manual.
- Develop the base plan from the field survey and generate a surface and 1' contours within the project limits.
- Research, locate and plot any underground utilities onto the base plan.
- Research street and abutting properties, locate monuments and plot road layout onto the base plan.
- Perform stream survey in accordance with MassDOT LRFD Bridge Manual for performing Hydrologic and Hydraulic Analysis and Report. Due to the ponding upstream and downstream, stream sections shall be taken at each face of the structure at each face of the downstream dam structure. Stream sections taken shall be in accordance with the MassDOT LRFD Bridge Manual.

Task 2 – Geotechnical Engineering and Reporting **(\$15,000)**

- Perform a one-day exploration program to include two borings at the existing culvert location, straddling the existing structure. The boring depth is planned to be around 35 feet below existing road grade or the top of bedrock whichever comes first. Borings will be performed in accordance with MassDOT standards. If bedrock is encountered, a 10-foot bedrock core will be sampled at the boring and will be performed in accordance with MassDOT standards. The subsurface information will be summarized in boring logs and gradation (sieve analysis) and/or Atterberg limits testing will be performed on a few soil samples if needed. TEC's Subconsultant has included the cost for a police detail for one day to control traffic during the on-site drilling.
- Compile and analyze the data obtained to determine:
 - the allowable bearing capacity and settlement of the foundations,
 - lateral foundation performance,
 - seismic issues, including site class and liquefaction potential for soils, and
 - construction, earth support, and dewatering issues.
- Prepare recommendations summarizing the results of the findings in a report, prepared in accordance with the MassDOT LRFD Bridge Manual.
- Obtain stream sediment samples at the bridge crossing location within the study area to supplement the Hydrologic and Hydraulic Analysis and Reporting.

Task 3 – Hydrologic and Hydraulic Analysis and Reporting **(\$15,000)**

- Review Hydrology of the area based on sources including USGS StreamStats, FEMA FIS for Essex County, nearby USGS Stream Gauges (if available), FHWA Peak Discharge Regressions, and NETC Peak Discharge Regressions to generate flow data representative of the stream crossing site. Calculate peak discharges for

the 2-yr, 10-yr, 25-yr, 50-yr, 100-yr, 200-yr and 500-yr return frequencies per MassDOT LRFD Bridge Design Manual requirements.

- Perform a site visit to become familiar with the site and document current conditions. Perform confirmation measurements of the stream and existing structure, and to evaluate stream and floodplain conditions to aid in the development of a hydraulic model. The downstream dam structure shall be accounted for within the hydraulic model.
- Use field survey collected in accordance with and to the extent of the MassDOT LRFD Bridge Manual merged with available LiDAR DER(s) to produce an accurate representation of existing conditions. The model will be georeferenced utilizing Massachusetts State Plan NAD83 (feet) horizontal datum and NAVD 88 (feet) vertical datum and produced in accordance with the MassDOT LRFD H&H modeling requirements.
- Use the hydraulic model to evaluate two (2) alternative proposed bridge configurations. Results of the alternatives analysis will include profiles, water surface elevations, and velocities for the design flow event. The design flow event will be based on the Highway Functional Classification for Kimball Road (Rural Local) based on MassDOT guidelines and the MassDOT Chapter 85 Review matrix. Also evaluate temporary bypass flow condition for the anticipated 2-yr storm event.
- Use the hydraulic model to evaluate scour in accordance with the MassDOT LRFD Bridge Manual for the design frequency required based on the Highway Functional Class.
- Conduct a no-rise analysis or no-rise analysis in accordance with the MassDOT LRFD Bridge Manual requirements using the FEMA effective model. The modeling will include the existing conditions model, which will serve as the baseline for the no-rise evaluation and a proposed conditions model, based on the preferred alternative, to be compared against the existing conditions model. The analysis will be suitable for evaluating any difference in water surface elevations between existing and proposed conditions.
- Compile the results of the hydrology, hydraulics, scour and no-rise analyses in an H&H Report in conformance with the MassDOT LRFD Bridge Manual.
- Massachusetts Stream Crossing Standards will be considered and implemented to the greatest extent practical, understanding the constraints that exist at the site. A table will be prepared summarizing the Stream Crossing Standards criteria and how the proposed crossing type meets these requirements. A maximum extent practical analysis, if needed would be included under future permitting tasks as part of a contract amendment.

Task 4 – Preliminary Engineering **(\$25,000)**

- Review the existing conditions survey and reports generated in Tasks 2 and 3 to determine the most appropriate replacement structure. It is assumed that the replacement structure will be a three-sided, open bottom, precast concrete box culvert with an approximate size of 12' wide by 6' high.
- Develop preliminary plans, calculations, and details for proposed replacement structure and compliant traffic safety features.
- Country drainage will be maintained and the roadway elevation will closely match the existing.
- Prepare temporary traffic management plans in accordance with MUTCD and MassDOT standards.
- Prepare preliminary construction cost estimate for Client review to aid in future capital planning discussions a future Small Bridge Grant applications.
- Review preliminary designs and estimates with Client for feedback prior to submitting to Chapter 85 review.
- Submit the preliminary plans to MassDOT for review.

Task 5 – Final Design **(\$35,000)**

- Respond to MassDOT comments on the 25% design plans. Incorporate changes requested and resubmit 25% design plans to MassDOT (if deemed necessary by MassDOT).
- Prepare a final set of Construction Plans and one set of design calculations (checked by a second engineer per the MassDOT Chapter 85 review matrix).
- Finalize project specifications. Specifications shall be based on MassDOT's latest Standard Specifications.
- Submit plans, specifications, reports (Hydraulic and Geotechnical) and calculations to MassDOT for Chapter 85 review.
- Review, provide responses and incorporate MassDOT comments.
- Resubmit package to MassDOT for approval.
- Provide a final construction cost estimate to the Client for future capital funds and future grant opportunities.

Note: If the Category of the Proposed Structure is neither BRI nor NBI (i.e., span ≤ 10 feet), a Chapter 85 review is not required

If the Category of the Proposed Structure is a BRI Bridge (10 feet < span ≤ 20 feet)

Hydraulic Design	Geotechnical Design	Structural Design	Construction Details	Design Review Submittals
<p>Hydraulic report per Bridge Manual (except as noted below)</p> <p>Less than 2 feet of freeboard</p> <p>Flood frequency: 10 year</p> <p>Design Scour freq.: 25 year</p> <p>Check Scour freq.: 50 year</p> <p>Must be scour stable after Design Scour Event but not necessarily available for use.</p>	<p>Geotechnical Report per Bridge Manual (except as noted below)</p> <p>At least one boring to refusal below bottom of footing or pile tip for every 30 feet of abutment or culvert width. If rock is encountered, a 10 foot core is recommended.</p>	<p>Design in accordance with AASHTO LRFD for HL-93 Design Loading.</p> <p>Bridge Manual DL and LL load distribution procedure if applicable.</p> <p>Seismic: AASHTO Guide Specifications for SDC A requirements.</p> <p>If a pre-fabricated structure that is designed by the fabricator: when the Contractor submits the fabricator design calculations and shop drawings, the municipality's Designer of Record shall review and accept the design.</p>	<p>Need not follow MassDOT Bridge Manual construction details.</p> <p>If not using standard MassDOT bridge railings or barriers and transitions, those used must be crash tested to either NCHRP 350 or MASH, Test Level 2 minimum if roadway speed ≤ 45 mph, minimum Test Level 3 if roadway speed > 45 mph. Provide 42" railing height if pedestrians are allowed on bridge.</p>	<p>Hydraulic Report (if over water)</p> <p>Geotechnical Report</p> <p>Complete final set of Construction Plans and one set of design calculations checked by a second engineer for MassDOT review.</p> <p>If a pre-fabricated structure, submit the shop drawings and fabricator design calculations after they have been reviewed and accepted by the municipality's Designer of Record.</p> <p>After MassDOT accepts the design, a complete final set of Construction Plan mylars with the MassDOT Chapter 85 approval stamp printed on each sheet for Bridge Engineer's signature.</p>
<p>Hydraulic report per Bridge Manual</p> <p>Provide 2 feet of freeboard</p> <p>Flood frequency: 25 year</p> <p>Design Scour freq.: 50 year</p> <p>Check Scour freq.: 100 year</p> <p>Must be scour stable and available for limited use after the Design Scour Event.</p>	<p>Geotechnical Report per Bridge Manual</p> <p>Perform a Design Boring program in accordance with Bridge Manual Part 1, Section 1.2.</p>	<p>Design in accordance with AASHTO LRFD for HL-93 Design Loading</p> <p>Bridge Manual DL and LL load distribution procedure if applicable.</p> <p>Seismic design per Bridge Manual for a 1000 year return period event.</p> <p>If a pre-fabricated structure that is designed by the fabricator: when the Contractor submits the fabricator design calculations and shop drawings, the municipality's Designer of Record shall review and accept the design.</p>	<p>If using MassDOT standard bridge details, follow MassDOT Bridge Manual construction details.</p> <p>Use MassDOT bridge railings and barriers and transitions.</p>	<p>Hydraulic Report (if over water)</p> <p>Geotechnical Report</p> <p>Complete final set of Construction Plans and one set of design calculations checked by a second engineer.</p> <p>If a pre-fabricated structure, submit the shop drawings and fabricator design calculations after they have been reviewed and accepted by the municipality's Designer of Record.</p> <p>After MassDOT accepts the design, a complete final set of Construction Plan mylars with the MassDOT Chapter 85 approval stamp printed on each sheet for Bridge Engineer's signature.</p>

<p>Provide 2 feet of freeboard</p> <p>Flood frequency: 50 year Design Scour freq.: 100 year Check Scour freq.: 200 year</p> <p>Must be scour stable and available for limited use after the Check Scour Event.</p>	<p>Manual</p> <p>Perform a Design Boring program in accordance with Bridge Manual Part I, Section 1.2.</p>	<p>AASHTO LRFD for HL-93 Design Loading.</p> <p>Bridge Manual DL and LL load distribution procedure if applicable.</p> <p>Seismic design per Bridge Manual for a 1000 year return period event, or 2500 year return period event for NHS bridges, based on the SDC of the site.</p> <p>If a pre-fabricated structure that is designed by the fabricator: when the Contractor submits the fabricator design calculations and shop drawings, the municipality's Designer of Record shall review and accept the design.</p>	<p>details, follow MassDOT Bridge Manual construction details.</p> <p>Use MassDOT bridge railings and barriers and transitions.</p>	<p>Geotechnical Report</p> <p>Complete final set of Construction Plans and one set of design calculations checked by a second engineer.</p> <p>If a pre-fabricated structure, submit the shop drawings and fabricator design calculations after they have been reviewed and accepted by the municipality's Designer of Record.</p> <p>After MassDOT accepts the design, a complete final set of Construction Plan mylars with the MassDOT Chapter 85 approval stamp printed on each sheet for Bridge Engineer's signature.</p>
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If the Category of the Proposed Structure is a NBI Bridge (20 feet < clear span)

Hydraulic Design	Geotechnical Design	Structural Design	Construction Details	Design Review Submittals
<p>Hydraulic report per Bridge Manual (except as noted below)</p> <p>Provide 2 feet of freeboard</p> <p>Flood frequency: 10 year Design Scour freq.: 25 year Check Scour freq.: 50 year</p> <p>Must be scour stable after Design Scour Event but not necessarily available for use.</p>	<p>Geotechnical Report per Bridge Manual (except as noted below)</p> <p>Perform a Design Boring program in accordance with Bridge Manual Part I, Section 1.2.</p>	<p>Design in accordance with AASHTO LRFD for HL-93 Design Loading and following Bridge Manual guidelines.</p> <p>Seismic design per Bridge Manual for a 1000 year return period event based on the SDC of the site.</p> <p>If a pre-fabricated structure that is designed by the fabricator: when the Contractor submits the fabricator design calculations and shop drawings, the municipality's Designer of Record shall review and accept the design.</p>	<p>Need not follow MassDOT Bridge Manual construction details.</p> <p>If not using standard MassDOT bridge railings or barriers and transitions, those used must be crash tested to either NCHRP 350 or MASH, Test Level 2 minimum if roadway speed \leq 45 mph, minimum Test Level 3 if roadway speed $>$ 45 mph. Provide 42" railing height if pedestrians are allowed on bridge.</p>	<p>Hydraulic Report (if over water)</p> <p>Geotechnical Report</p> <p>Complete final set of Construction Plans and one set of design calculations checked by a second engineer.</p> <p>If a pre-fabricated structure, submit the shop drawings and fabricator design calculations after they have been reviewed and accepted by the municipality's Designer of Record.</p> <p>After MassDOT accepts the design, a complete final set of Construction Plan mylars with the MassDOT Chapter 85 approval stamp printed on each sheet for Bridge Engineer's signature.</p>

<p>Provide 2 feet of freeboard</p> <p>Flood frequency: 25 year Design Scour freq.: 50 year Check Scour freq.: 100 year</p> <p>Must be scour stable and available for limited use after the Design Scour Event.</p>	<p>Manual</p> <p>Perform a Design Boring program in accordance with Bridge Manual Part I, Section 1.2.</p>	<p>AASHTO LRFD for HL-93 Design Loading and following Bridge Manual guidelines.</p> <p>Seismic design per Bridge Manual for a 1000 year return period event based on the SDC of the site.</p> <p>If a pre-fabricated structure that is designed by the fabricator: when the Contractor submits the fabricator design calculations and shop drawings, the municipality's Designer of Record shall review and accept the design.</p>	<p>details, follow MassDOT Bridge Manual construction details</p> <p>Use MassDOT bridge railings and barriers and transitions.</p>	<p>Geotechnical Report</p> <p>Complete final set of Construction Plans and one set of design calculations checked by a second engineer.</p> <p>If a pre-fabricated structure, submit the shop drawings and fabricator design calculations after they have been reviewed and accepted by the municipality's Designer of Record.</p> <p>After MassDOT accepts the design, a complete final set of Construction Plans mylars with the MassDOT Chapter 85 approval stamp printed on each sheet for Bridge Engineer's signature.</p>
<p>Hydraulic report per Bridge Manual</p> <p>Provide 2 feet of freeboard</p> <p>Flood frequency: 50 year Design Scour freq.: 100 year Check Scour freq.: 200 year</p> <p>Must be scour stable and available for limited use after the Check Scour Event.</p>	<p>Geotechnical Report per Bridge Manual</p> <p>Perform a Design Boring program in accordance with Bridge Manual Part I, Section 1.2.</p>	<p>Design in accordance with AASHTO LRFD for HL-93 Design Loading and following Bridge Manual guidelines.</p> <p>Seismic design per Bridge Manual for a 1000 year return period event, or 2500 year return period event for NHS bridges, based on the SDC of the site.</p> <p>If a pre-fabricated structure that is designed by the fabricator: when the Contractor submits the fabricator design calculations and shop drawings, the municipality's Designer of Record shall review and accept the design.</p>	<p>If using MassDOT standard bridge details, follow MassDOT Bridge Manual construction details.</p> <p>Use MassDOT bridge railings and barriers and transitions.</p>	<p>Hydraulic Report (if over water)</p> <p>Geotechnical Report</p> <p>Complete final set of Construction Plans and one set of design calculations checked by a second engineer.</p> <p>If a pre-fabricated structure, submit the shop drawings and fabricator design calculations after they have been reviewed and accepted by the municipality's Designer of Record.</p> <p>After MassDOT accepts the design, a complete final set of Construction Plans mylars with the MassDOT Chapter 85 approval stamp printed on each sheet for Bridge Engineer's signature.</p>

enhance Interstate, Other NHS Routes and STRAHNET Routes and Connectors, are considered Critical/Essential in that they are the primary routes for emergency use during and after an emergency or limited use after such an event. See MassDOT Bridge Manual for more information on these requirements. A map of NHS Routes in Massachusetts is available on the following website:

[http://www.mass.gov/highway_system/nhs_maps/](#) and Bridge Railing Retrofit Resources:

on: http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/citmeasures/bridge_railings/

Force 13: <http://www.aashtottf13.org/Bridge-Rail.php>

RFD Bridge Design Specifications, Latest Edition with current interims and errata

