# City of Biddeford, Maine



City of Biddeford

Public Works Department / Engineering Division P.O. Box 586 • 205 Main Street, Suite 301 Biddeford, ME 04005 Phone: (207) 284-9118 • Fax: (207) 571-0662

November 10, 2020

State of Maine Division of Procurement Services Burton M. Cross Building 111 Sewall Street, 4<sup>th</sup> Floor Augusta, ME 04333-0009

Re: RFP #202008127 2020 Grants for Stream Crossing Public Infrastructure Improvements Granite Point Road Culvert Replacement City of Biddeford

Dear Grant Review Team;

The City of Biddeford is pleased to submit the accompanying application for the 2020 Grants for Stream Crossing Public Infrastructure Improvements (RFP #202008127).

The City of Biddeford is seeking \$125,000 in funding to replace a culvert crossing on a direct tributary to Little River on Granite Point Road. Granite Point Road is owned and maintained by the City. We are very excited about the opportunity this Grant program may have on a critical piece of infrastructure in our City. The Granite Point Culvert is a critical piece of infrastructure in that it provides the only access to the Granite Point area for public safety services as well as providing the only access for the people residing in this area. The culverts condition is very poor and is in danger of failure.

We anticipate that construction of the replacement structure will be undertaken in the late Summer/early Fall of 2021. We also anticipate that the construction will take approximately 4 weeks to complete.

Please find enclosed the following:

- > 2020R1 Grant Application Form
- Supplemental Materials including
  - Photos of the culvert crossing
  - Location Map
  - Beginning with Habitat Map
  - Concept Plan

205 Main Street, Biddeford, ME 04005 P: 207.284.9313 F: 207.571.0678 www.biddefordmaine.org The City of Biddeford is an equal opportunity provider. To file a complaint, write to Human Resource Director, 205 Main Street Biddeford, ME 04005, or call (207) 286-0593.

- Stream Stats Report •
- Maine Stream Habitat Viewer Report
- Correspondence with MDIFW

We look forward to hearing from you. If you have any questions or need any additional information, please contact me directly. Thank you for considering this Grant request.

Sincerely, Thomas Mallyn, Thomas Milligan PE City Engineer

Request for Proposals for Str	partment of Envi eam Crossing Pu oosal Applicatior RFP# 2020	ıblic Infrastı ı Form – 202	ructure		ovemei	nt Projects	
I. Applicant Information							
Applicant Name City of Biddeford							
Applicant Mailing Address 205 Main Street	City Biddeford				State ME	Zip 04005	
*Applicant Contact Phone # (207) 284-9118	-	mail Address an@biddefor	rdmain	e.org			
*Please note that the applicant contact s should the project be awarded.			e the pri	imary c	contact fo	or the Department	
II. Agent/Consultant Information	□ Check if not a	oplicable					
Agent Name Steve Blake, PE – BH2M Engineers							
Agent Mailing Address	City				State	Zip	
380B Main Street	Gorham				ME	04038	
Agent Phone #	Agent Ema	il Address					
(207) 839-2771	sblake@bl	n2m.com					
III. Applicability							
<ul> <li>The proposed structure to be upgrade or state entity.</li> <li>The proposed project includes matchi</li> <li>IV. Culvert/Stream Crossing Inform</li> <li>1. Site Information</li> </ul>	ng funds from local			d and i	s not ow	ned by a private	
		1					
A. Municipality or Unorganized te project will take place:	rritory where	Biddeford					
B.GPS Location of crossing (Dec	imal degrees	No	orth			West	
preferred) Available on Google Maps by clickir on the map	ng the location	43.41777			70.38	334	
<b>C.Culvert/crossing location</b> Name of the road on which the culv and the nearest intersection.	ert/crossing is loca	Granite Point Road in Biddeford. Approximately 0.5 miles south of Pool Street (Route 9).					
<b>D.Watershed Location:</b> List the HUC12 Watershed, name of the stream, brook, or the water	i. HUC12 Waters in Maine Stream	hed:(can be	found	Batso	on River sefare B	r – Frontal ay	
body the culvert is located on, and the downstream waterbodies	ii. Waterbody na location ("Projec			i	Unnamed tributary of Little River		
it drains to.	iii. "Project Wat	erbody" dra	ins to:		ittle Riv ay	ver to Goosefare	

2. Existin	g Crossing Int	formation											
Cul	vert/Crossing S	Shape		Cu	lver	rt Materia	al		Stro		ed Material in ulvert		
□ Closed	bottom Box		🛛 Corrug	ated	Met	al Pipe			🛛 nor	ne			
🗆 Open b	ottom box		Smooth	ו Met	tal P	ipe			□ Par	tial			
🛛 Circula	r		Concre	ete					□ Cor	us			
🛛 🗆 Open b	ottom arch		□ Plastic										
Closed	bottom arch (pip	be arch)	□ Stone										
□ Oval		,	□ Other (	desc	ribe)	):							
□ Bridge	or span		<b>`</b>		,	,							
Culvert	Width (diamet	er if round)	F	leigh	t			Length		Аррі	roximate Culvert Age		
#1	6 fe	et						41 feet		-	+/- 30 years		
(#2)											y so y curb		
(#3)													
	ed Crossing I				Cu	ulvert Ma	ateria						
	bottom Box	□ Open bo	ttom box		-			letal Pipe		mooth	n Metal Pipe		
		⊠ Open bo				Concrete				lastic			
□ Oval	•	□ Bridge or				0010.00	2			tone			
	bottom arch (pip		Span			Other (d	occrit						
☐ Closed							COUL	Jej					
· · · · ·	ameter if round)	Heig	ht	_		.ength		lf	nronosi	ina a h	vridae/snan		
viuui (ui			Ju		L	engin			r Span	<i>roposing a bridge/span</i> Span Total Span			
	12 feet	5 fe	a t		1	1 feet		0.00.	opun				
		_		- 41			' -! <b>4</b>  e	<b>6</b> 41- 0					
13. Will th stream?	he new crossing	g de sizea to	be 1.2 tim	ies ti		anktull v	Natri	of the			s 🗆 No		
4. Stream	Channel Des	cription											
Measured	Bankfull	Upstream	1.	2		3.	4.	5.	Av	erage	Average		
Width		widths									value of		
(beyond c influence, upstream downstrea	min. of 3 and am	Downstream Widths	1.	2		3.	4.	. 5.	Av	verage	upstream & downstream measuremen ts		
measurer	nents)												
Estimated	Bankfull		Maine Str	ream	Hat	oitat View	ver		64	0 feet			
width (me	asured	http://webap	ps2.cgis-sc	<u>olutio</u>	<u>ns.c</u>	om/Main	eStre	amViewe	er/		ι		
	ankfull width		S	Strear	mSta	ats			4.7	6 feet	t		
	e the most		https://stre							0 100			
accurate	nethod)	Other Hyd	raulic & Hy	/drolc	gic /	Analysis	(if pe	rformed)					
Has a Str	eam Bed Substr	ate analysis b	een perfor	med?	?					] Yes	⊠ No		
Explain:									i		1		
Size of D	ownstream scou	r pool		Wid	lth			Length		Ν	Max Depth		
	$\square$ N/A, No scour	•		-		1					•		
		poor present		64 :	ft. +	-/-		95 ft. +/-	-	-	3 ft. +/-		

V. Public Infrastructure Information	on (2	25 Points to	otal):						
		· · · · · · · · · · · · · · · · · · ·		41	40			Yes	No
<ol> <li>Has the crossing caused flooding or</li> <li>How many times in the last 10 years?</li> </ol>		topping of t	ne road ir	the last	10 yea	rs?		$\boxtimes$	
(indicate if approximate)	1	Two							
3. Does this crossing regularly become	obst	ructed by de	ebris or re	quire cle	aning?	)			
How often?					_				
4. Has the crossing been damaged by flo	oodii	ng in the las	t 10 years	?					
5. Do you have any photos of the floodir	ng or	<sup>r</sup> damage? P	lease pro	vide if av	ailable	)			
6. Has the crossing ever partially or fully	/ fail	ed in the las	t 10 years	?					
7. List any dates and describe the severity of flooding/damage	3/4	/18: 4-hr cl	losing						
associated with the crossing. Include	210	/10 . / 1 1		4 a 1					
the duration of any full or partial road closures.	3/0	5/18 : 4-hr cl	losing/par	uai					
8. Describe any issues with the current	The	e existing cr	ossing is	in very po	oor coi	ndition	n and	is in c	langer
condition of the crossing	of	collapsing.							
9. In how many years from now do you	<u> </u>	Less than	1-3			5-1	0	40.	
estimate the culvert/crossing would hav	'e a	1 year	years	3-5 y	ears	year	rs	10+	· years
complete failure, a complete collapse, o total washout?	r				]				
10. Would any homes, businesses, or cr			ure be <u>co</u> i	npletely o	cut-off	from	•	Yes	No
	ly fai	il?						$\boxtimes$	
access if the crossing were to complete	-	• • • !		!		!			-
11. If the culvert/crossing fails, how man	iy	Hom	ies	Busi	nesses	s	In	Critic	
	iy ire	Hom			1		In Deto	frastru	ucture
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						Yes	No	
1. Are fish present in the	e stream?					$\boxtimes$		
Source(s) of Information								
	MR ⊠ Maine St	tream Habitat \	/iewer □ Other	(describe	):			
2. Has this crossing bee or another qualified entit			m Habitat Viewer	, MDIFW	, MDMR,	$\boxtimes$		
Provide source of barrier Survey contained in the data extracted from the Maine Stre								
information		Habitat View						
3. Is the existing culvert http://webapps2.cgis-				ewer?		$\boxtimes$		
If yes, what is the Mair crossing proposed for u		t Viewer Cross	sing ID# for the	55342			<u> </u>	
4. What is the Maine Stre			Upstream Cross	sing ID#	Downstrea	am Cro	ssing ID#	
ID# for the crossings ups the proposed upgrade?	stream and down	stream of	55342			None		
Are these consider	ed to be a barrier	to fish	□ Barrier		□ Barrier			
passage?			Partial/Potent	ial	□ Partial/	Potentia	al Barrier	
			Barrier		□ Not a B	arrier		
5. Distance to the next ba	arriar identified b	w the Maine	□ Not a Barrier Upstrean	•	Dei	whatrog		
Stream Habitat Viewer (n		y the Maine	2000 feet		DO	Downstream		
, , , , , , , , , , , , , , , , , , ,	,		2000 1001	1/-				
6. Indicate if any of the f	ollowing species	have been ide	entified above or	just belo	w the cros	sing.		
🛛 Wild brook trout 🛛 🗆	Sea-run brook ti		lautia a alua au /a a	• • • • • • • • • • • • • • • • • • •				
			lantic salmon (se	-		samo	on	
· /	ewives	rout 🛛 At	•	a-run) ⊴ Americ		samo	on □	
Sea-run rainbow smelt	ewives	□ Blueback	k herring	Americ	an eels			
Sea-run rainbow smelt ⊠ other diadromous (sea	ewives a-run) species (lis	□ Blueback	k herring	Americ	an eels			
Sea-run rainbow smelt Sea-run rainbow smelt other diadromous (sea Pumpkinseed Sunfish, M	ewives a-run) species (lis lummichog, and b	□ Blueback st): Common S Sticklebacks.	s herring	Americ	an eels	el,		
Sea-run rainbow smelt ⊠ other diadromous (sea	ewives a-run) species (lis lummichog, and IDMR regarding t	□ Blueback st): Common S Sticklebacks. this stream an	therring	Americ	an eels nain Picker	el,		
<ul> <li>Sea-run rainbow smelt</li> <li>⊠ other diadromous (sea Pumpkinseed Sunfish, M</li> <li>7. Have you contacted M</li> <li>If yes, please</li> <li>include any relevant</li> </ul>	ewives a-run) species (lis lummichog, and IDMR regarding t	□ Blueback st): Common S Sticklebacks. this stream an	s herring	Americ	an eels nain Picker	el,		
<ul> <li>Sea-run rainbow smelt</li> <li>⊠ other diadromous (sea Pumpkinseed Sunfish, M</li> <li>7. Have you contacted M</li> <li>If yes, please</li> <li>include any relevant</li> <li>information they</li> </ul>	ewives a-run) species (lis lummichog, and IDMR regarding t See attached cor	□ Blueback st): Common S Sticklebacks. this stream an	therring	Americ	an eels nain Picker	el,		
<ul> <li>Sea-run rainbow smelt</li> <li>⊠ other diadromous (sea Pumpkinseed Sunfish, M</li> <li>7. Have you contacted M</li> <li>If yes, please</li> <li>include any relevant</li> </ul>	ewives a-run) species (lis lummichog, and IDMR regarding t See attached cor	□ Blueback st): Common S Sticklebacks. this stream an	therring	Americ	an eels nain Picker	el,		
<ul> <li>Sea-run rainbow smelt</li> <li>☑ other diadromous (sea Pumpkinseed Sunfish, M</li> <li>7. Have you contacted M</li> <li>If yes, please</li> <li>include any relevant</li> <li>information they</li> <li>provided or attach</li> <li>letter of support</li> <li>8. Have you contacted M</li> </ul>	ewives a-run) species (lis lummichog, and IDMR regarding t See attached con MDMR.	□ Blueback st): Common S Sticklebacks. this stream an rrespondence	t herring	Americ	an eels nain Picker	el,		
Sea-run rainbow smelt ⊠ other diadromous (sea <u>Pumpkinseed Sunfish</u> , M 7. Have you contacted M If yes, please include any relevant information they provided or attach letter of support 8. Have you contacted M If yes, please	ewives a-run) species (lis lummichog, and IDMR regarding t See attached con MDMR.	□ Blueback st): Common S <u>Sticklebacks.</u> this stream an rrespondence this stream ar	therring	Americ	an eels nain Picker	el, ⊠ lirectly	u v with	
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		Yes	No
significant fisheries, "He Stream Habitat Viewer o	nt to other significant resources (e.g. Significant Wildlife Habitat, eritage" waters, alewife ponds, etc.) according to the Maine or Beginning with Habitat Map Viewer?		
If yes, list identified resource(s):	There is documented Saltmarsh False-foxglove in close proximity crossing.	to the	
11. Have any priority ha Habitat Stream Viewer, I	bitats such as spawning areas been identified by the Maine MDIFW, or MDMR?	$\boxtimes$	
If yes, List habitats identified and source of information:	The crossing is located in a Wild Brook Trout Habitat.		
12. Is the current crossi	ng undersized?	$\boxtimes$	
If yes, how was this determined and what was the metric used?	Based on bank full width measured by the survey done for the Mai Habitat website.	ne Strea	am
	g contain an open bottom?	$\boxtimes$	
	g be embedded below the stream bed?		$\boxtimes$
	vill be embedded, is stream bed backfill proposed?		
If yes, how will materia used for streambed bac be determined?		lecessar	y.
18. Will the new crossin	g contain constructed stream banks within the structure?		$\boxtimes$
	ng meet Maine DOT 100-yr flood criteria?	$\boxtimes$	
<b>slope, or sizing?</b> (e.g. lar sedimentation, etc.)	ownstream habitat degraded due to this crossing's orientation, ge scour pool, instability or stream bank erosion, significant downstream		
	opear to be large scour pools at the inlet and outlet areas.		
	ed on a stream or reach where other culvert/crossing upgrades ithin the last 5 years leading to improved fish passage?		
If yes, describe any additional biological, ec or cost-saving benefits result from the current p	that could project:		
	is the crossing or the waterbody should be considered a priority for n Maine DMR or Maine IF&W Biologists:	restora	ition,
If the crossing fails it wi	ill cut off access to the area and public safety will not be able to acce	ess.	
	nation about the design or importance of the proposed project that b errestrial passage, stream banks within the structure, stream simula		
	gned as an open bottom structure and will remove a potential barrier a restricted and allow the stream flow without creating unnecessary		
VII. Cost & Budget I	nformation (25 Points total):		

years on the culvert/o painting).	has been spent on physic crossing (exclude normal		such as perfo	000 +/- (work rmed by the 0 c work depart	City
2. Describe the types of expenditures made on repairs	Excavation around section deteriorating culvert was culvert causing road sub-	s allowing road fill			
	6			Yes	No
3. Do you have engin replacement culvert/c	eered design plans and c crossing?	construction specific	ations for the		
	tify who designed the len the plans were		d permitting with that the City will retain on the City will retain on the city will retain the city will retain the city will retain the city will be a set of the city will		not
B. Will final pl	ans be stamped by a Mai	ine Licensed Engine	er?	⊠	
	ı will be over 20 feet in wi Transportation (MDOT) t		• •	e 🗆	
<b>.</b> . <b>.</b>	ou had the design review ase contact MDOT Bridge F				
	//www.maine.gov/mdot/b	and limitations.			
contacted Army Corp	os regarding this project? d an application to Army	This will be peri	mitted with ACOE.		
-	/e a permit in-hand from				
8. What is the anticip duration?	-	Approximately 4 w			
9. If awarded, when is	s construction anticipated		Start Date:	Completio	n Date
October 1)	typical window for in-water	-	End August	End Septer	
10. Provide any addit space below:	ional information regardi	ng the efficiency an	d cost-effectiveness	s of the projec	ct in th
environment, the life materials. The crossin	will include new constru- span of this material will ng will be an open botton y for higher intensity stor	l be greatly increased n culvert to help pro	d compared to more	traditional	
11. Provide any addit grant in the space be	ional information as to w low:	hy this project shou	ld be funded by a p	ublic infrastru	ucture
The project is in a ser reaching the end of it	nsitive saltwater habitat v s life span and is currentl y will not be able to acces	y undersized. If the	—		-

## State of Maine Department of Environmental Protection COST PROPOSAL FORM RFP# 202008127

2020 Grants for Stream Crossing Public Infrastructure Improvements

Bidder's Organization Name:	City of Biddeford
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Instructions: The cost proposal must include: the total amount of funds requested under this RFP, the total cost of the project to completion, and the amount of local matching funds dedicated to the project.

The cost proposal may not exceed \$125,000. Local matching funds must be included. The Department cannot fund 100% of any project.

1. Total Amount of Funds being Requested		\$125,000
2. Total Matching Funds Committee	\$55,000	
3. Total Cost to Complete Proposed Project (total of items 1&2 above)		\$180,000
4. All Sources of Matching Funds (list):	Capital Improveme	nt Plan Funds

Budget Items				
5. Total Engineering Costs	\$17,000			
6. Permitting and Bidding	\$3,000			
7. Erosion & sediment controls (including de- watering, stream bypass, cofferdams, temporary and permanent stabilization measures)	\$30,000			
8. All other items	\$130,000			

## State of Maine Department of Environmental Protection DEBARMENT, PERFORMANCE and NON-COLLUSION CERTIFICATION RFP# 202008127

2020 Grants for Stream Crossing Public Infrastructure Improvements

Bidder's Organization	City of Biddeford	
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By signing this document, I certify to the best of my knowledge and belief that the aforementioned organization, its principals and any subcontractors named in this proposal:

- a. Are not presently debarred, suspended, proposed for debarment, and declared ineligible or voluntarily excluded from bidding or working on contracts issued by any governmental agency.
- b. Have not within three years of submitting the proposal for this contract been convicted of or had a civil judgment rendered against them for:
  - *i.* Fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a federal, state or local government transaction or contract.
  - *ii.* Violating Federal or State antitrust statutes or committing embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
  - iii. 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 (b) of this certification; and
  - iv. Have not within a three (3) year period preceding this proposal had one or more federal, state or local government transactions terminated for cause or default.
- c. Have not entered into a prior understanding, agreement, or connection with any corporation, firm, or person submitting a response for the same materials, supplies, equipment, or services and this proposal is in all respects fair and without collusion or fraud. The above-mentioned entities understand and agree that collusive bidding is a violation of state and federal law and can result in fines, prison sentences, and civil damage awards.

Failure to provide this certification may result in the disqualification of the Bidder's proposal, at the discretion of the Department.

Name (Print): Title: CITY ENGINEES THOMAS MILLIGAN PE 11/12/2020 Authorized Signature; Date: has c



VIEW: Upstream of Inlet DATE TAKEN: July 10, 2015



VIEW: Downstream of Outlet DATE TAKEN: July 10, 2015



VIEW: Outlet End of Culvert DATE TAKEN: July 10, 2015



VIEW: Inlet End of Culvert DATE TAKEN: July 10, 2015



VIEW: Outlet End of Culvert DATE TAKEN: October 29, 2019



VIEW: Outlet End of Culvert DATE TAKEN: October 29, 2019



VIEW: Upstream of Crossing DATE TAKEN: October 29, 2019



VIEW: Upstream of Crossing DATE TAKEN: October 29, 2019



VIEW: Inlet End of Culvert DATE TAKEN: October 29, 2019



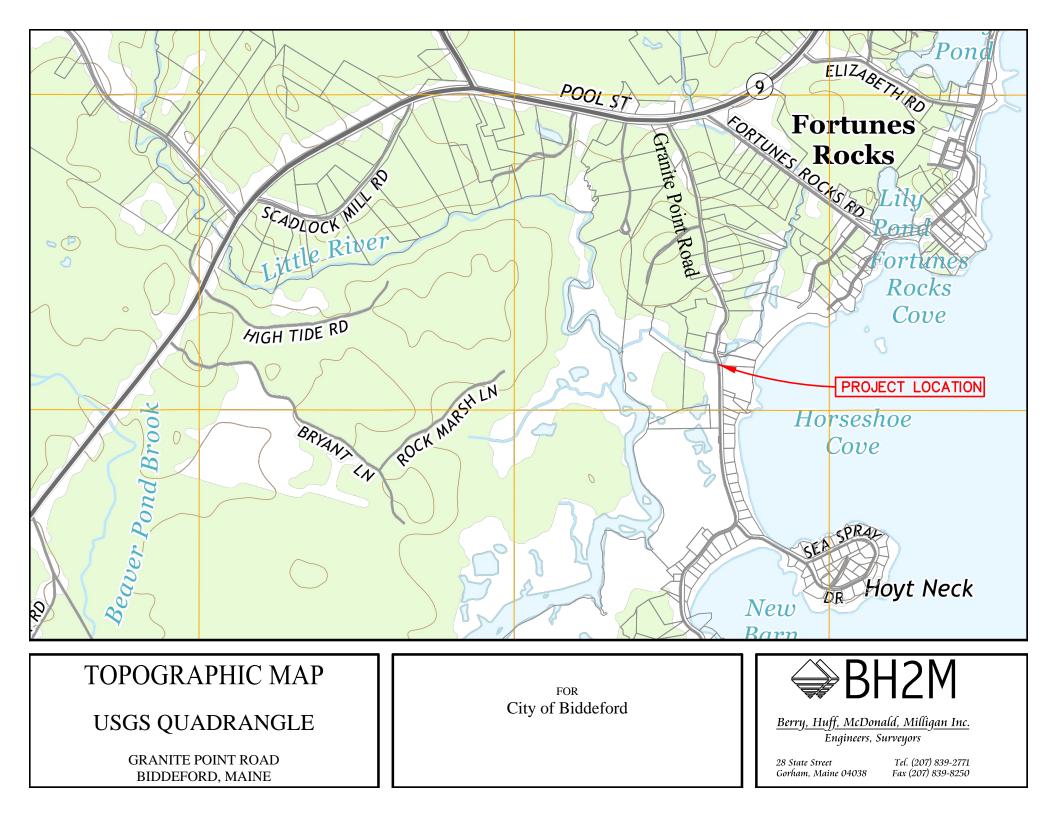
VIEW: Inlet End of Crossing DATE TAKEN: October 29, 2019



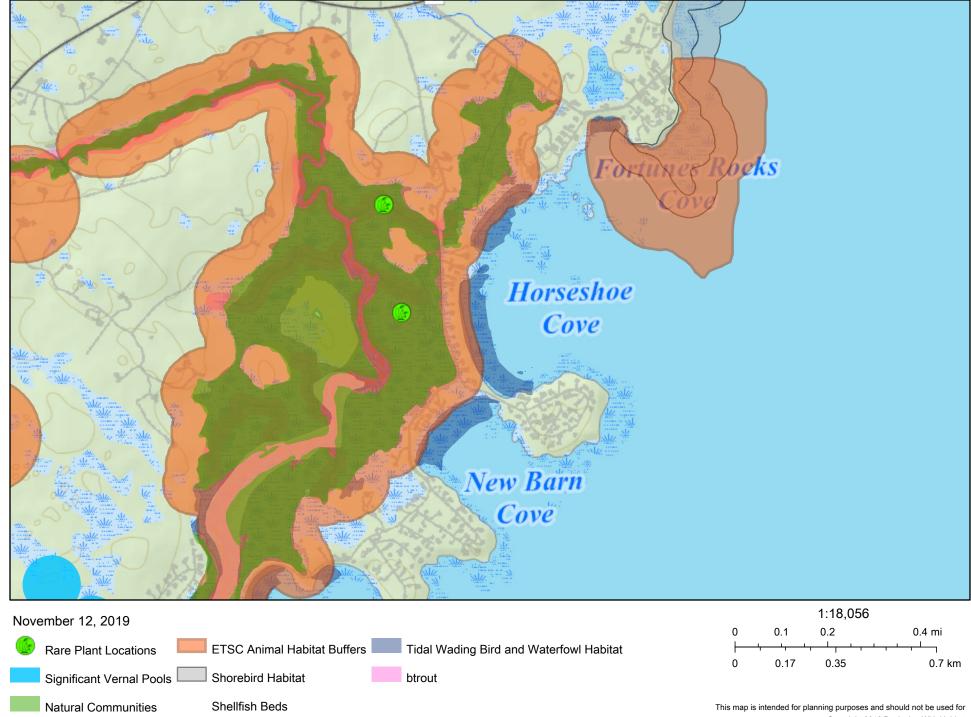
VIEW: Inlet End of Culvert DATE TAKEN: October 29, 2019



VIEW: Granite Point Road Looking North DATE TAKEN: October 29, 2019



## Beginning With Habitat



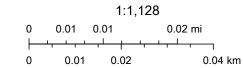
## Granite Point Road Tidal Crossing



11/13/2020, 11:36:25 AM

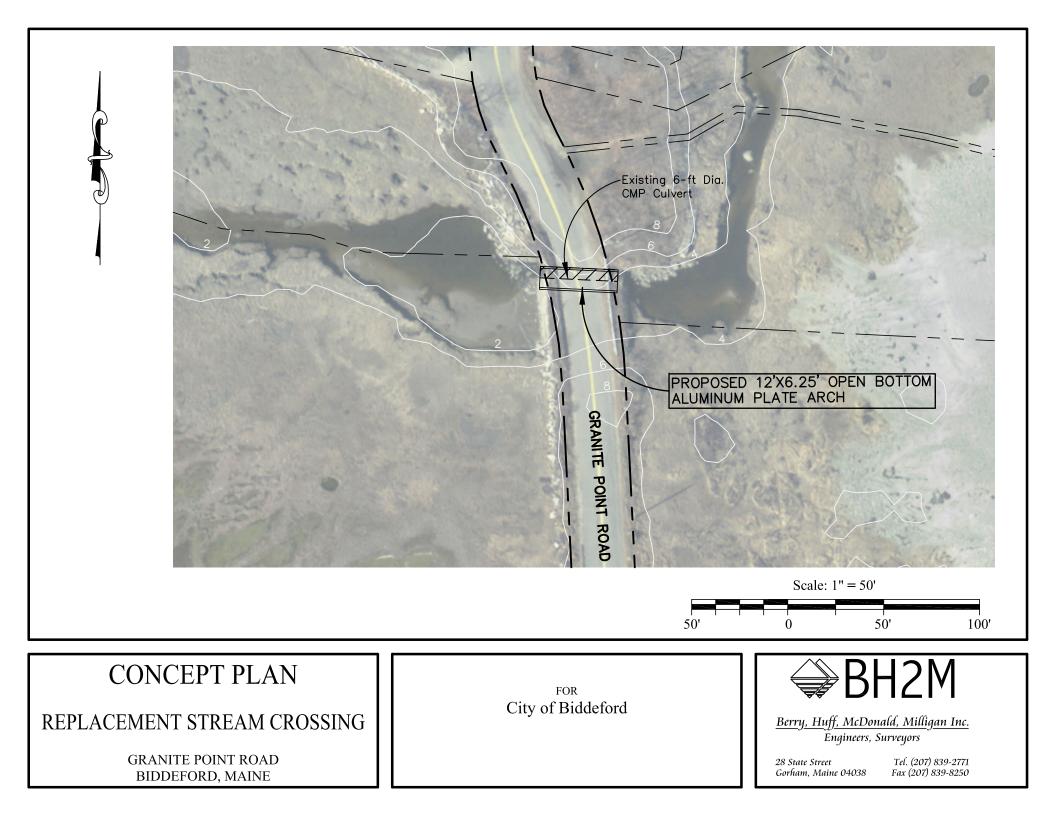
**Tidal Road Crossings** 

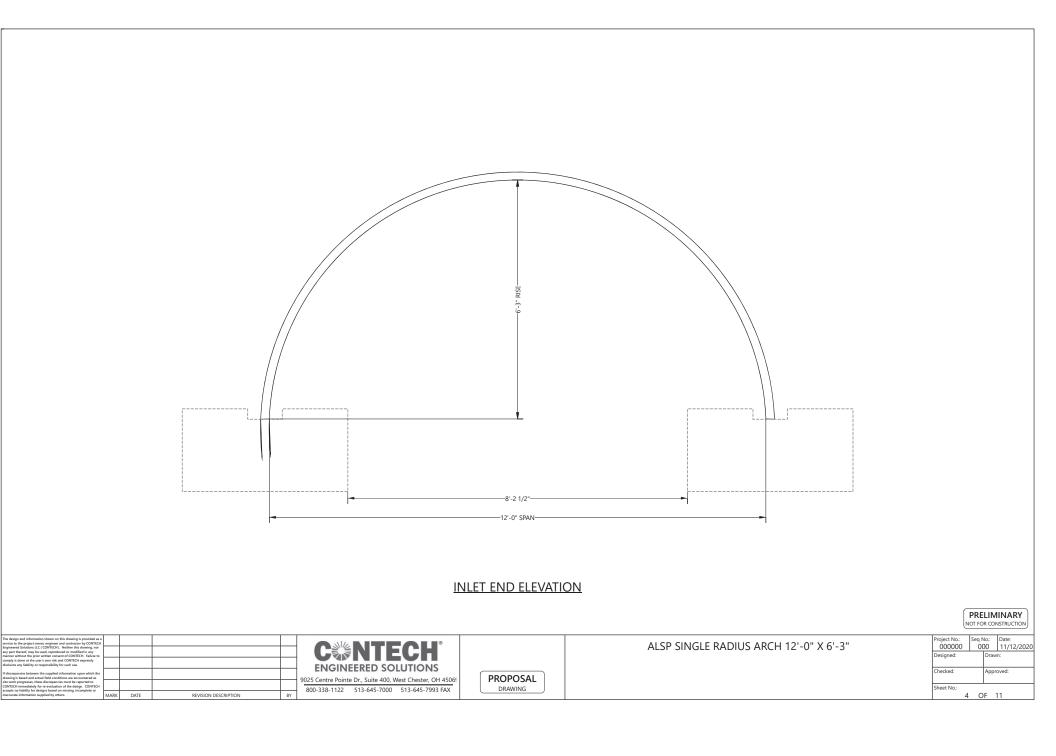
Restriction



GeoEye, Maxar, Microsoft

Maxar, Microsoft | U.S. Fish and Wildlife Service, National Standards and Support Team, wetlands\_team@fws.gov | Maine Department of Agriculture, Conservation and Forestry, Maine Natural Areas Program, National Wetlands Inventory |





### StreamStats Report for Granite Point Road Stream Crossing



Basin Characteristics			
Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.4	square miles
STORNWI	Percentage of strorage (combined water bodies and wetlands) from the Nationa Wetlands Inventory	31.26	percent

Peak-Flow Statistics Parameters/statewide Peak Flow DA LT 12sqmi 2015 5049

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.4	square miles	0.31	12
STORNWI	Percentage of Storage from NWI	31.26	percent	0	22.2

Peak-Flow Statistics Disclaimers(Statewide Peak Flow DA LT 12sqmi 2015 5049)

#### One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

Peak-Flow Statistics Flow Reportstatewide Peak How DA LIT 122ppril 2015 5049]				
Statistic	Value	Unit		
1.01 Year Peak Flood	3.63	ft*3/s		
2 Year Peak Flood	10.4	ft*3/s		
5 Year Peak Flood	15.5	ft^3/s		
10 Year Peak Flood	18.4	ft*3/s		
25 Year Peak Flood	24	ft*3/s		
50 Year Peak Flood	26.5	ft^3/s		
100 Year Peak Flood	30.9	ft*3/s		
250 Year Peak Flood	33.2	ft*3/s		
500 Year Peak Flood	39.3	ft^3/s		

Peak-Flow Statistics Citations

Lombard, P.J., and Hodgkins, G.A., 2015, Peak flow regression equations for small, ungaged streams in Maine- Comparing map-based to field-based variables: U.S. Geological Survey Scientific Investigations Report 2015-5049, 12 p. (http://dx.doi.org/10.3133/sir20155049)

Bankful Statistics Parameters[central and Countral Bankful 2004 (502)					
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.4	square miles	2.92	298
Bankfull Statistics Disclaimers; [current and counted Bankful 2004 50-02]					
One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors					
Bankfull Statistics Flow Report[contral and Countal Bankful 2004 5042]					
Statistic			Value		Unit
Bankfull Streamflow			1.98		ft^3/s
Bankfull Width			4.76		ft
Bankfull Depth			0.435		ft
Bankfull Area			2.07		ft^2
Bankfull Statistics Citations					

#### Dudley, R.W., 2004, Hydraulic-Geometry Relations for Rivers in Coastal and Central Maine: U.S. Geological Survey Scientific Investigations Report 2004-5042, 30 p (http://pubs.usgs.gov/sir/2004/5042/pdf/sir2004-5042.pdf)

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

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USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Application Version: 4.4.0

### **Crossings and Barriers: Crossings**

Site ID: 55342 Crossing Type: Culvert Crossing Class: Potential Barrier Survey Date: 07/10/2015 Stream: Unknown Town: Biddeford County: York Road: Granite Point Rd

### Detailed Stream Crossing Information

Latitude: 43.41777 Longitude: -70.38793 Road Type: Paved Road Class: Town Number Of Culverts: 1 Crossing Condition: Poor Structure Type: Round Culvert Material: Metal Inlet Grade: At Stream Grade Inlet Width (ft): 6.00 Inlet Water Depth (ft): 0.30 Inlet Height (ft): 6.00 Crossing Length (ft): 40.50 Outlet Grade: At Stream Grade Outlet Width (ft): 6.20 Outlet Water Depth (ft): 0.20 Outlet Drop (ft): 0.00 Outlet Height (ft): 5.80 Structure Substrate Matches Stream: None Physical Barriers: None Physical Barrier Severity: None Road Fill Height (ft): 3.00 Total Opening Width (ft): 6.00 Area of Opening (sq ft): 28.30 Estimated Bankfull Width (ft): 6.40 Upstream Blocked Miles: 0.45 Upstream Total Miles: 1.26 **Upstream Barriers: 3** Downstream Barriers: 0

<u>Potential Effects of this Crossing</u> Atlantic Salmon Modeled 100 sq m Habitat Units Blocked: -1.00 Alewife Pond Acres Blocked: -1.00 Wild Eastern Brook Trout Habitat: Unknown Rainbow Smelt Habitat: No data Tidal Marsh: Yes

Other Habitat Considerations Beginning with Habitat Connectors: No data Threatened Endangered or Rare Species: Yes Non-Native Fish: No data Tidal Waterfowl & Wading Bird Habitat: Yes Inland Waterfowl & Wading Bird Habitat: No data Beginning with Habitat Focus Area: No data

Watersheds

HUC 12 Subwatershed Name: Batson River-Frontal Goosefare Bay HUC 10 Watershed Name: Goosefare Bay-Frontal Atlantic Ocean HUC 8 Sub-basin Name: Piscataqua-Salmon Falls HUC 6 Basin Name: Saco

## **Steve Blake**

From:	Settele, Rebecca <rebecca.settele@maine.gov></rebecca.settele@maine.gov>
Sent:	Tuesday, November 5, 2019 10:32 AM
То:	Steve Blake
Cc:	Perry, John
Subject:	RE: Granite Point Road Stream Crossing

This includes info from MDMR.

Becca Settele Wildlife Biologist Maine Dept of Inland Fisheries & Wildlife Wildlife Division 650 State St Bangor ME 04401 (207)941-4438 <u>mefishwildlife.com | facebook | twitter</u>

Correspondence to and from this office is considered a public record and may be subject to a request under the Maine Freedom of Access Act. Information that you wish to keep confidential should not be included in email correspondence.

From: Steve Blake <sblake@bh2m.com>
Sent: Tuesday, November 05, 2019 10:31 AM
To: Settele, Rebecca <Rebecca.Settele@maine.gov>
Subject: RE: Granite Point Road Stream Crossing

EXTERNAL: This email originated from outside of the State of Maine Mail System. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Thanks Becca. One last question, this includes info from MDMR or are you send that separately?

-Steve

From: Settele, Rebecca <<u>Rebecca.Settele@maine.gov</u>>
Sent: Tuesday, November 5, 2019 10:24 AM
To: Steve Blake <<u>sblake@bh2m.com</u>>
Cc: Perry, John <<u>John.Perry@maine.gov</u>>
Subject: RE: Granite Point Road Stream Crossing

Hi Steve,

Just heard back from Fisheries. The inland portions of the Little River are known to support: brook trout, common shiner, American eel, golden shiner, chain pickerel, and pumpkinseed sunfish. Some of these species are likely present in the tributary, as well as, some of the more common tidal species like mummichog, sticklebacks, etc.

Let me know if you need any other information.

**Becca Settele** 

Wildlife Biologist Maine Dept of Inland Fisheries & Wildlife Wildlife Division 650 State St Bangor ME 04401 (207)941-4438 mefishwildlife.com | facebook | twitter

Correspondence to and from this office is considered a public record and may be subject to a request under the Maine Freedom of Access Act. Information that you wish to keep confidential should not be included in email correspondence.

From: Steve Blake <<u>sblake@bh2m.com</u>>
Sent: Friday, November 01, 2019 2:11 PM
To: Settele, Rebecca <<u>Rebecca.Settele@maine.gov</u>>
Subject: Granite Point Road Stream Crossing

# EXTERNAL: This email originated from outside of the State of Maine Mail System. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Becca. We're working with the City of Biddeford to apply for the Stream Crossing Public Infrastructure Grant. Attached is location for the stream existing stream crossing we're looking at. It's located on Granite Point Road. I'm curious if you have any relevant information on this crossing that might help support the application.

Also, do you know who I could speak with at MDMR to discuss a similar request from that Department?

Thanks for your help.

### STEVEN J. BLAKE, PE SENIOR ENGINEER





Berry Huff McDonald Milligan, Inc. 28 State Street Gorham, Maine 04038 207 839-2771