

BID ADDENDUM NO. 1

City of Auburn, Maine
Sopers Mill Road Culvert Replacement
January 21, 2021

Notice is hereby given that Addendum No. 1 provides further clarification for questions asked by Bidders before and during the Pre-Bid meeting held on January 19, 2021 and includes the registered bidders list. Bidders are instructed to acknowledge receipt of this Addendum by inserting its number and date in the "Acknowledgement of Bid Amendments".

Questions:

1. Was there any hydrologic information prepared for the project.
Answer: Yes, a copy is included with this addendum.
2. Was any geotechnical investigations completed for the project.
Answer: No

Drawings: The following new Drawing(s) are herewith added, have an issue date of January 21, 2021 and designated as Addendum No. 1.

New sheets included:

- Sheet G001 – Notes, Abbreviations, Legend and Sheet Index

Attachments: The following items are being provide for bidder reference:

- Registered Plan Holder List
- Pre-Bid Meeting Presentation
- Hydrologic and Hydraulic Analysis Summary

City of Auburn, ME
Sopers Mil Road Culvert Replacement Project
January 21, 2021
Registered Plan Holders List

Number	Name	Company	Email Address	Phone Number
1	Nick Mathon	J Pratt Construction Inc	nick@jprattinc.com	(207) 577-7914
2	Andrew Ward	Pratt & Sons	andrew@prattandsons.net	(207) 754-3635
3	Ian Messier	Crooker Construction	ian@crooker.com	(207) 720-0371
4	Steven Piela	Glidden Excavating & Paving, Inc.	steve@gliddenpaving.com	(207) 856-9990
5	Kolby Martin	Nitram Excavation & General Contractor, Inc.	kolby@nitramexc.com	(207) 692-7746
6	Scott Bois	Gendron & Gendron	scottb@gendroncorp.com	(207) 712-3404
7	Jim DePalma (JD)	Longchamps & Sons, Inc	jd.depalma.ls@gmail.com	(207) 754-5385
8	Adam Lake	CH Stevenson, Inc.	alake@chstevensoninc.com	(207) 685-3600
9	Travis Stearns	C.L.H & Son Inc	travis@clhandson.com	(207) 212-2483
10	Mike Naczas	Construction Summary of NH/Maine/VT, Inc.	mnaczas@constructionsummary.com	(207) 990-1156
11	Larry Morin	St. Laurent & Son Inc	pave@stlaurentandson.com	(207) 784-7944
12	Mitch Elliott	Shaw Brothers Construction, Inc	melliott@shawbrothers.com	(207) 321-1395
13	Craig E Babbidge	Cross Excavation	Craig@crossexcavation.com	(207) 381-7567
14	Kim Suhr	Wyman and Simpson, Inc.	ksuhr@wymanandsimpson.com	(207) 737-4471



Pre-Bid Meeting Sopers Mill Road Culvert Replacement



January 19, 2021
2:00 pm



COMMITMENT & INTEGRITY DRIVE RESULTS



Agenda

- Introductions & Key Personnel
- Project Overview
- Project Schedule
- Bid Form
- Addendum
- Bid Opening
- Questions



Key Personnel

- Owner: City of Auburn
 - City of Engineer: Tony Beaulieu, P.E.
- Engineer: Woodard & Curran
 - Project Manager: Megan McDevitt, P.E.

Project Overview

- Overall Goal: Replace deteriorated CMP culvert with precast concrete box culvert



Project Overview

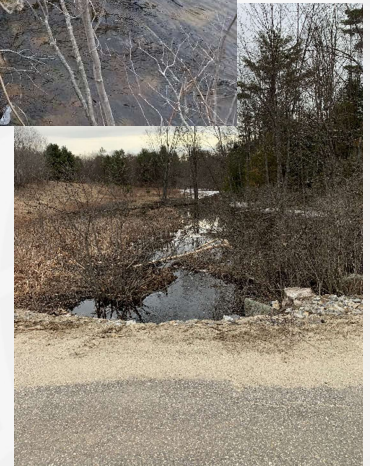
- Existing Site Conditions



INLET &
UPSTREAM



OUTLET &
DOWNSTREAM



Project Overview

- Anticipated Sequence of Construction
 - Installation of traffic control measures.
 - Installation of erosion and sedimentation control and water control measures.
 - Demolition of roadway and existing culvert.
 - Installation of precast concrete box culvert with wingwalls.
 - Backfill and reconstruction of roadway.
 - Installation of guardrail.
 - Restoration of disturbed areas.
 - Removal of temporary erosion and sedimentation control, water control and traffic control measures.

Project Overview

- Project Requirements
 - Comply with Army Corps of Engineers General Permit NAE-2020-00667, including:
 - Work Area Isolation and Evacuation of Atlantic Salmon
 - All in-water construction work must be completed between July 15, 2021 and September 30, 2021
 - Provide Traffic Control Plan identifying proposed construction signage and detour prior to pre-construction meeting
 - Precast Concrete Box Culvert to be installed with 2 feet of embedment.
 - Streambanks to be reconstructed within culvert.
 - Clamshell design will be accepted.



Project Schedule

- Contract Times
 - Final Completion Date.....December 1, 2021
 - Liquidated Damages\$500/Calendar Day
- Start Time
 - Flexible, but in-water work cannot start before July 15, 2021



Bid Form

- Bid Items Include:
 - Sopers Mill Road Culvert Replacement– *Lump Sum*
 - Structural Rock Excavation – Drainage & Minor Structures – *per Cubic Yard*

- Bid Security – 5 percent of Bid Price



Addendum

- All Addendums *must be* acknowledged on Bid Form
- Send any additional questions in writing to Megan McDevitt, mmcdevitt@woodardcurran.com
 - Deadline to submit written questions: 5:00 pm January 22, 2021



Bid Opening

- Thursday, January 28, 2021 at 2:00 pm
- Mail sealed bids to:
 - City of Auburn,
 - Attn: Derek Boulanger, Facilities Manager/Purchasing Agent
 - 60 Court Street
 - Auburn, Maine 04210
- Include "Sopers Mill Culvert Replacement–Bid # 2021-019" on envelope.
- Basis of Award
 - Lowest total base bid price from responsive bidder



Questions?



COMMITMENT & INTEGRITY DRIVE RESULTS

USGS Basin and Stream Flow Statistics & Hydrologic Analysis:

Attribute	Value	Units	Definition
Drainage Area	0.6	square miles	Area that drains to crossing
Wetlands	4.66	percent	Percentage of NWI storage
Elev	290	feet	Mean basin elevation
Precip	45.9	inches	Mean annual precipitation
Aquifer	0	percent	Percentage of land surface underlain by aquifers
X	402852.64	State Plane Coord.	Basin centroid E/W location
Y	4873999.98	State Plane Coord.	Basin centroid N/S location

Return Period	Peak Flow Estimate
T (yr)	QT (ft ³ /s)
1.01	11
2	36.2
5	57.2
10	72.4
25	94.5
50	111
100	130
500	176

Estimated Bankfull Width = 5.88 ft

Source: USGS StreamStats version 4.3.11, 8/6/2020

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>)

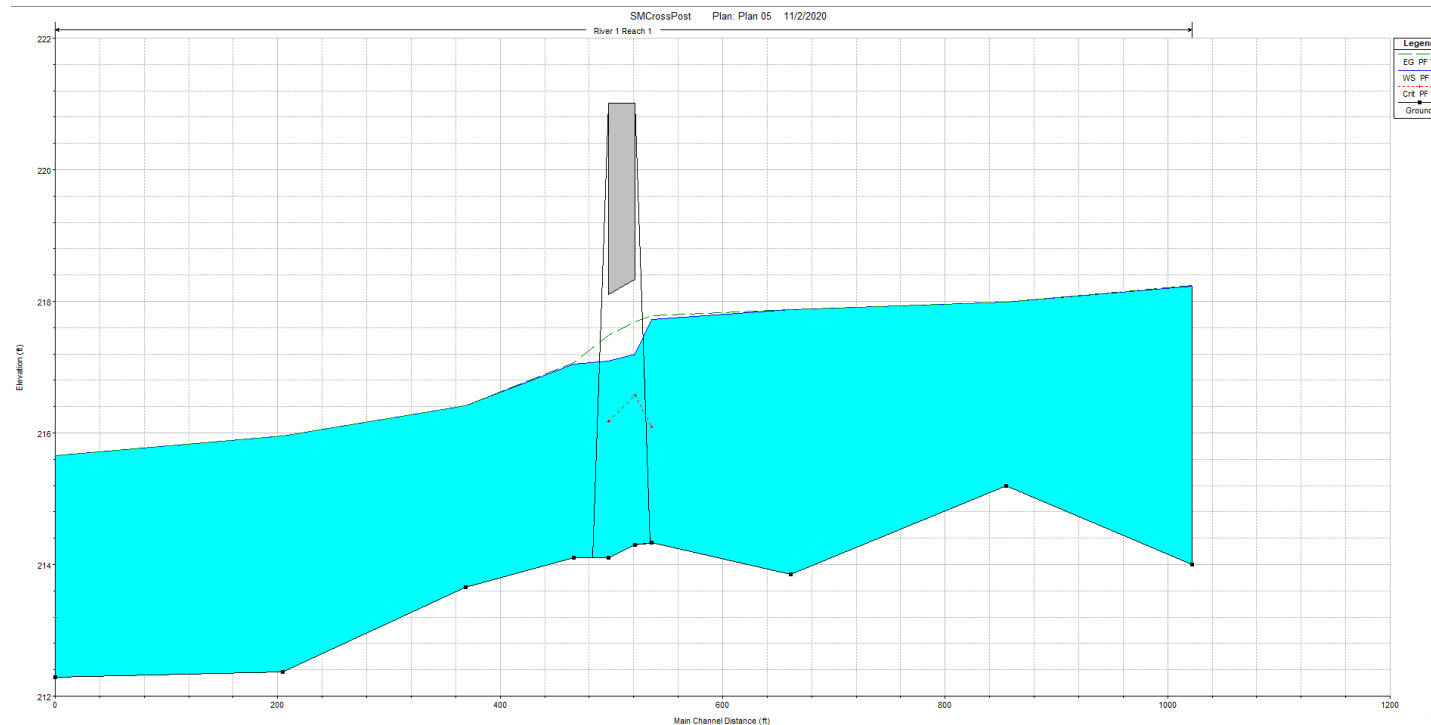
Peak-Flow Statistics Citations

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>)


HEC-RAS Hydraulic Analysis Program provides basin flow estimates and culvert discharge results for the following rainfall events at the proposed box culvert design, and indicates that the proposed culvert will pass the expected 100-year storm event:

Discharge Name	Total Discharge (cfs)	Culvert Discharge (cfs)	Headwater Elevation (ft)	Inlet Depth (ft)	Outlet Depth (ft)	Flow Type	Outlet Velocity (ft/s)
1.01 year	11	11	215.37	1.04	1.26	Subcritical; outlet control	1.18
2 year	36.2	36.2	216.09	1.76	1.96	Subcritical; outlet control	2.26
5 year	57.2	57.2	216.42	2.09	2.28	Subcritical; outlet control	3.01
10 year	72.4	72.4	216.62	2.29	2.46	Subcritical; outlet control	3.48
25 year	94.5	94.5	216.87	2.54	2.69	Subcritical; outlet control	4.11
50 year	111	111	217.03	2.7	2.84	Subcritical; outlet control	4.56
100 year	130	130	217.19	2.86	2.99	Subcritical; outlet control	5.04

























100-year storm event water surface profile:



GENERAL NOTES

1. SITE AND TOPOGRAPHIC DATA PROVIDED BY SGC ENGINEERING, LLC OF WESTBROOK, MAINE AS A RESULT OF A SURVEY CONDUCTED FOR THE CITY OF AUBURN IN NOVEMBER 2019. SURVEY CONTROL REFERENCED HORIZONTALLY WITH THE MAINE STATE PLAN COORDINATE SYSTEM, NAD '83, WEST ZONE AND VERTICALLY WITH NAVD '88.
2. THE UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION BY THE CONTRACTOR PRIOR TO CONSTRUCTION ACTIVITY. NOT ALL EXISTING UTILITIES ARE SHOWN ON PLANS.
3. CONTRACTOR SHALL CLEAN AND/OR FLUSH CULVERT AFTER THE WORK HAS BEEN COMPLETED. FLUSHING SHALL BE INCIDENTAL TO THE CONTRACT.
4. CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITY WITH UTILITY COMPANIES, EMERGENCY SERVICES, AND THE CITY. NOTIFY UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO WORK ACTIVITY ADJACENT TO THOSE UTILITIES.
5. CONTRACTOR SHALL NOTIFY ALL UTILITIES PRIOR TO COMMENCING WORK, ALLOWING SUFFICIENT TIME TO LOCATE AND MARK THE LOCATION OF BURIED UTILITIES. CONTRACTOR SHALL CONTACT "DIG SAFE", TELEPHONE 888-344-7233, AT LEAST 72 HOURS PRIOR TO EXCAVATION.
6. CONTRACTOR SHALL RESTORE ALL AREA DISTURBED BY CONSTRUCTION ACTIVITIES TO ORIGINAL FINISH (GRAVEL, PAVEMENT, GRASS, ETC.) UNLESS OTHERWISE NOTED ON PLANS. RESTORATION OF LAWNS DAMAGED BY CONTRACTOR OPERATIONS SHALL BE INCIDENTAL TO THE PROJECT.
7. PROPERLY PROTECT AND DO NOT DISTURB PROPERTY IRONS AND MONUMENTS. IF DISTURBED, THE PROPERTY MONUMENT SHALL BE RESET AT THE CONTRACTOR'S EXPENSE, BY A REGISTERED LAND SURVEYOR APPROVED BY THE CITY OR ENGINEER.
8. EXISTING FACILITIES (E.G. GUARDRAILS, TREES, MAILBOXES, POLES, LIGHT POSTS, CATCH BASINS, ETC.) THAT ARE NOT SCHEDULED TO BE REMOVED SHALL BE PROTECTED DURING CONSTRUCTION AND SHALL BE INCIDENTAL TO THE CONTRACT. THE CITY RETAINS RIGHT TO KEEP ANY AND ALL REMOVED FACILITIES. CONTRACTOR TO DISPOSE OF ANY REMOVED FACILITY AT THE REQUEST OF THE CITY OR RESIDENT ENGINEER AT CONTRACTOR'S EXPENSE.
9. DO NOT PARK OR STORE EQUIPMENT ON ADJACENT CITY OR PRIVATELY OWNED LOTS, UNLESS PERMISSION HAS BEEN GRANTED IN WRITING BY CITY OR LAND OWNER.
10. RESTRICT ACCESS TO CONSTRUCTION AREA THROUGH THE USE OF APPROPRIATE SIGNAGE, GATES, BARRIERS, FENCES, ETC. SITE SHALL BE LEFT WITH APPROPRIATE SAFETY MEASURES IN PLACE DURING NON-WORKING HOURS. NO TRENCH SHALL BE LEFT OPEN DURING NON-WORKING HOURS. SITE SAFETY IS THE SOLE RESPONSIBILITY OF CONTRACTOR, DURING BOTH WORKING AND NON-WORKING HOURS.
11. PROVIDE 4 INCHES OF LOAM AND SEED IN ALL LAWN AREAS DISTURBED BY CONTRACTOR'S OPERATIONS.
12. CONTRACTOR SHALL PREPARE A COMPLETE SET OF "RECORD" DRAWINGS THAT REFLECT THE CONSTRUCTED CONDITIONS, INCLUDING PLANIMETRICS, TOPOGRAPHY AND UTILITY INFORMATION.
13. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION PERMITS. PERMIT APPLICATIONS SHALL BE SUBMITTED WITH ADEQUATE TIME SO AS NOT TO DELAY CONSTRUCTION.
14. ALL WORK SHALL BE DONE IN ACCORDANCE WITH MAINE DEPARTMENT OF TRANSPORTATION'S BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL, MOST RECENT EDITION.
15. CONTRACTOR TO COORDINATE ROAD CLOSURE WITH THE CITY AND SHALL PROVIDE AND MAINTAIN DETOUR SIGNAGE THROUGHOUT THE DURATION OF CONSTRUCTION.
16. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE DEPARTMENT OF THE ARMY MAINE GENERAL PERMIT NAE-2020-00667, INCLUDING REQUIREMENTS FOR WORK AREA ISOLATION AND EVACUATION OF ATLANTIC SALMON.
17. ALL IN-WATER WORK SHALL BE COMPLETED BETWEEN  JULY 15, 2021 AND SEPTEMBER 30, 2021.

LEGEND

-  IRON PIPE FOUND
-  CONCRETE BOUND FOUND
-  EXISTING SIGN
-  UTILITY POLE
-  GUY ANCHOR
-  EXISTING WATER VALVE
-  EXISTING HYDRANT
-  PROPOSED PAVEMENT
-  EXISTING SANITARY SEWER MANHOLE
-  APPROXIMATE BOREHOLE LOCATION
-  EXISTING CONTOUR
-  EXISTING OVERHEAD ELECTRIC
-  EXISTING GUARDRAIL
-  RIGHT-OF-WAY
-  TOP OF BANK
-  WETLANDS
-  PROPOSED COFFERDAM
-  PROPOSED SEDIMENT BARRIER
-  PROPOSED CONTOUR
-  PROPOSED GUARDRAIL
-  PROPOSED SAWCUT
-  TURBIDITY BARRIER
-  PROPOSED PAVEMENT
-  PROPOSED RIP RAP

ABBREVIATIONS

- BIT. BITUMINOUS
- CONC. CONCRETE
- E.P. EDGE OF PAVEMENT
- INV. INVERT
- L.O.W. LIMIT OF WORK
- OHW OVERHEAD WIRE
- N.A.V.D. NORTH AMERICAN VERTICAL DATUM
- STA STATION
- TYP. TYPICAL

SHEET INDEX

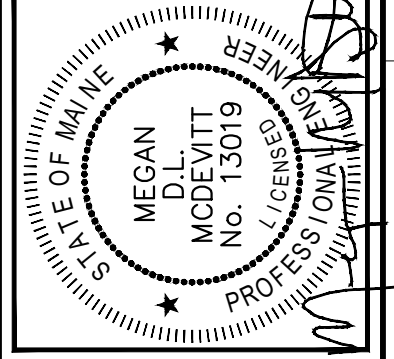
SHEET NO.	SHEET TITLE
GENERAL	
G-000	COVER SHEET
G-001	NOTES, ABBREVIATIONS, LEGEND AND SHEET INDEX
CIVIL	
C-001	EXISTING CONDITIONS PLAN
C-002	SITE PREPERATION AND EROSION & SEDIMENT CONTROL PLAN
C-003	CULVERT REPLACEMENT PLAN & PROFILE
C-004	GUARDRAIL PLAN & DETAILS
C-005	PROJECT DETAILS - 1
C-006	PROJECT DETAILS - 2

41 Hutchins Drive
Portland, Maine 04102
800.426.4262 | www.woodardcurran.com



WOODARD CURRAN
COMMITMENT & INTEGRITY DRIVE RESULTS

WE ARE COMMITTED TO THE SAFETY OF OUR CLIENTS, OUR PEOPLE, OUR PLANET AND THE QUALITY OF OUR WORK. REPRODUCTION OR MODIFICATION WITHOUT WRITTEN PERMISSION IS PROHIBITED.



MEGAN D.L. MCDEVITT
LICENSED PROFESSIONAL ENGINEER
STATE OF MAINE
LICENSE NO. 13019

REV	DESCRIPTION	DATE	CHECKED BY	DATE
1	ADDED M1	JAN 12 2021	MDLM	
0	ISSUED FOR CONSTRUCTION	JAN 2021		

DESIGNED BY: SET
DRAWN BY: WSW

NOTES, ABBREVIATIONS, LEGEND AND SHEET INDEX

CITY OF AUBURN
ANDROSCOGGIN COUNTY

SOPERS MILL ROAD
CULVERT REPLACEMENT

JOB NO:	230620.15
DATE:	JANUARY 2021
SCALE:	NTS
SHEET:	2 OF 8

G-001

woodardcurran.net\shared\Projects\0230620.00 Auburn ME - 2017 Gen Eng Svs\wp15 Sopers Mill Road Design and Permitting\Drawings\General\023062015-G001a.DWG, Jan 21, 2021 - 4:38pm, MCMDEVITT