City of Portsmouth Portsmouth, New Hampshire Department of Public Works

> Bid#38-19 Mac Granite 64FR or Equivalent

INVITATION TO BID

The City of Portsmouth is soliciting bids for a new, latest model year Mack Granite 64 FR MP-8 with 425 HP torque curve to be flat from 1050-1400 RPM or equivalent with a Vactor 2100i with Roots 824-18" Hg. Blower with 1500 gallon stainless steel water tanks, with IntuiTouch capabilities, or equivalent, for the Water/Sewer Division of the City of Portsmouth Public Works Department.

The City will trade in a 1997 International 7400 Vactor truck. Mileage is 57,098.

Sealed bid proposals, plainly marked "Bid#38-19 Mac Granite 64FR or Equivalent" on the outside of the, addressed to the Finance/Purchasing Department, City Hall, 1 Junkins Avenue, Portsmouth, New Hampshire, 03801, will be accepted until 1:00 p.m., March 13, 2019 at which time all bids will be publicly opened and read aloud.

This bid is available at http://www.cityofportsmouth.com/finance/purchasing.htm or by contacting the Finance/Purchasing Department at the following number: (603) 610-7227.

Questions may be directed to the Finance/Purchasing Department. Addenda to this proposal, if any, including written answers to questions will be posted on the City of Portsmouth website under the project heading. Any addenda will be not sent directly to vendors.

The City of Portsmouth reserves the right to reject any or all bids, to waive technical or legal deficiencies, and to accept any bid that it may deem to be in the best interest of the City.

INSTRUCTION TO BIDDERS

I. <u>Preparation of Bid Proposal</u>

- A. The Bidder shall submit its proposal upon the form furnished by the City (attached). Prices shall be given in both words and figures.
- B. Corrections made to amounts or information requested on the bid form should be made by crossing out the error and entering the new price or information above or below it. The correction must be initialed. In case of discrepancy between the prices written in words and those written in figures, the prices written in words shall govern.
- C. The bidder's proposal must be signed by the individual, by one or more members of the partnership, by one or more members or officers of each firm representing a joint venture; by one or more officers of a corporation, or by an agent of the contractor legally qualified and acceptable to the owner. If the proposal is made by an individual, his/her name and post office address must be shown, by a partnership the name and post office address if each partnership member must be shown; as a joint venture, the name and post office address of each must be shown; by a corporation, the name of the corporation and its business address must be shown, together with the name of the state in which it is incorporated, and the names, titles, and business addresses of the President, Secretary, and Treasurer.
- D. All words, figures, corrections shall be in ink or typed. All signatures shall be in ink.
- E. Addenda to this proposal, if any, including written answers to questions, will be posted on the City of Portsmouth website at http://www.cityofportsmouth.com/finance/purchasing.htm under the project heading. Addenda and updates will NOT be sent directly to firms. Bidders submitting a proposal should check the web site for addenda and updates after the release date. Bidders should print out, sign and return addenda with the proposal. Failure to do so may result in disqualification.
- F. Disadvantaged Business Enterprises (DBEs) as defined in 49 CFR Part 26 are encouraged to submit a proposal. If applicable, documentation of DBE status shall be included with the submittal.

II. Delivery of Bid Proposals

When sent by mail, the sealed proposal shall be addressed to the owner at the address and in the care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and at the place specified in the invitation for bids. Proposals received after the time for opening of the bids will be returned to the bidder, unopened. Faxed bid proposals are <u>not</u> acceptable.

III. Withdrawal of Bid Proposals

A bidder will be permitted to withdraw his/her proposal unopened after it has been deposited if such request is received in writing prior to the time specified for opening the proposals.

IV. Public Opening of Bid Proposals

Proposals will be opened and read publicly at the time and place indicated in the invitation for bids. Bidders, their authorized agents, and other interested parties are invited to be present.

V. Irregular Proposals and Disqualification of Bidders

Bid proposals that are irregular may be rejected. Irregular bid proposals include the following:

- A. Failure to use the bid form provided or alteration of the form.
- B. Unauthorized additions, conditional or alternated bids, incomplete bids, or irregularities of any kind which may tend to make the proposal incomplete, indefinite or ambiguous as to its meaning.
- C. The addition of any provision reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.

Bidders may be disqualified and the bid proposal rejected for the following reasons:

- A. More than one proposal for the same work from an individual, firm, or corporation under the same or different name;
- B. Evidence of collusion among bidders;
- C. Failure to submit all required information requested in bid specifications;
- D. Bidder is not qualified or able to provide the services or product(s) described in the bid specifications; or
- E. Disqualification is in the best interest of the City of Portsmouth.

AWARD

I. Consideration of Proposals and Award

After the proposals are opened and read, bid results will be available to the public. In case of discrepancy between the prices written in words and those written figures, the prices written in words shall govern.

Within 30 calendar days after the opening of proposals, if an award is made, it will be made to the lowest, responsible, qualified bidder whose proposal complies with all the

requirements prescribed. The successful bidder will be notified by mail at the address indicated on the proposal.

The award shall not be considered official until such time that a purchase order, fully executed contract or an award letter has been issued by the Finance Director.

No presumption of award shall be made by the bidder until such documents are in hand. Verbal notification of award is not considered official. Any action by the bidder to assume otherwise is done so at his/her own risk and the City will not be held liable for any expense incurred by a bidder that has not received an official award.

III. Reservation of Rights

The City reserves the right to cancel the award at any time before final notification of the successful bidder without any liability against the City. The City of Portsmouth reserves the right to reject any or all bids, to waive technical or legal deficiencies, and to accept any bid that it may deem to be in the best interest of the City.

Bid Specification

The intent of this specification is to procure a new or latest model year Mack Granite 64 FR MP-8 with 425 HP torque curve to be flat from 1050-1400 RPM or equivalent with a Vactor 2100i with Roots 824-18" Hg. Blower with 1500 gallon stainless steel water tanks, with IntuiTouch capabilities, or equivalent, for the Water/Sewer Division of the City of Portsmouth Public Works Department.

The City will trade in one vehicle:

1997 International 7400 Vactor truck

Ground clearance related packages

Mileage: 57,098

An equivalent Vactor truck must be of equivalent quality and meet the bid specifications. The City in its sole discretion will determine if an equivalent meets the bid specifications.

The following are minimum acceptable specifications, any exceptions shall be noted In the column titled "Actual Bid".

Minimum Requested:	Actual Bid:
Application Packages:	
Mack Granite 64FR Module Paint Match Cab — Yes Module Paint Color — White Cab Color — White Chassis Axle — Tandem	
Granite BR Config. Pkg. PK7 179A: CTO; LH BB, 33L DEF 93 gallon Sleeved, outboard air	
Application Recommendations Without special sales package	

Standard ground clearance (Most applications)	
Customer/Vehicle Info:	
Vehicle use & body/trailer type	
Tanker or Pumper Truck	
Topography Grades <3% greater than 98% of driving Distance max grade 8%	
Ambient temp upper limit (GTA) Ambient temperature very hot. Warmer than 104F (40C) more than 25 hours per year	
Sales Promotion Rapid quote management program - US	
Program Financial Tracking Sales program tracking 3 - USA	
Marketing Promotion Fair market value lease commitment	
Engine/Transmissions:	
Engine package MP8-425M Mack 425HP@1500-1900 RPM (Peak) 2100 RPM (GOV) 1560 LB-FT, US'17	
Transmission 4500 RDS 6 SP-Allison rugged duty series Gen 5 w/prognostics	
Exhaust/Emissions:	
PPF Cover DPF cover stainless steel, polished	

Exhaust

Single vertical right side cab mounted, Lower venturi diffuser, turned end	
Exhaust system material finish Single, bright finish heat shield, stack and SCR cover (if equipped)	
Engine Equipment: Alternator Delco 12V 145A (24SI) brush-type	
Batteries (3) Mack 12V 1000/3000 CCA threaded Stud type	
Battery disconnect switch Flaming river big switch wired to positive Side	
Starter Mitsubishi electric 105P planetary gear Reduction starter	
Coolant protection Chevron extended life coolant w/o Nitrite (50/50 mix dyed red) to -34DEG	
Coolant filter/conditioner Spin on canister w/o chemical for use W/Texaco extended life coolant only	
Hoses - Radiator/Heater Silicone hoses, spring clamps on radiator & Heater, ¼ turn ball valve heater hose	
Oil pan Corrosion resistant oil pan	
Engine block heater 120V 1500 watt engine block heater	
Engine starting aid	

Electric preheater	
Clutch/Trans Equipment:	
Gear shifter Allison dash MTD shifter w/neutral to range inhibit (HD Series)	
Clutch Omit clutch	
Driveline - Main Meritor 18 MXL "XTENDED LUBE"	
Driveline - Interaxle Meritor 17 MXL "EXTENDED LUBE"	
Propeller shaft main, Unvsl Jnt Universal joint half-rounded type	
Transmission output torque basic	
Transmission oil cooler Funrish for Allison trans. w/direct Mount cooler & SS coolant tubes	
Front Axle Equipment:	
Front Axle 20000#(9100 KG) MACK FXL20 wide pivot center straight spindle/unitized bearings	
Springs - Front Mack taper leaf 20000# (9100 KG) ground load rating	
Front Axle Brakes Meritor "S" cam type 16.5"x6 Q+	
Front Axle Brake Dust Shield Dust shields for front axle	

Steering Sheppard SD110 + HD94	
Rear Axle Equipment:	
Rear Axles - Tandem 46000# (20900KG) Mack S462R cast ductile iron housing, dual reduction	
Carrier - Rear Axle CRDP150/151 available with optional driver controlled interwheel differential locks, see 254 symbol	
Rear Axle Ratio 5.31 ratio	
Rear Suspension - Tandem SS462 Mack multileaf (camelback) 46000# - Extra thick spring thickness	
Bogie Spread, Rear 55" axle spacing (bogie wheelbase)	
Rear Spring Insulator Mat'l Urethane shock insulators, heavy duty, Highly recommended w/SS582 & SS652 Rear susp	
Transverse Torque Rods, R Susp Transverse torque rod (rear axle only)	
Brakes - Rear Meritor "S" cam 16.5"x7" Q+ (Total for QTY=2)	
Drive Axle Brake Dust Shield Dust shields for rear axle	
Traction Differential Driver controlled interwheel differential lock RR-RR axle only, manual air valve w/warning light	

Cab Interior (S-Z):

Seat - Driver's Mack-Air, high back, 4 chamber air lumbar, bolster extension	
Seat Covering - Driver's Driver's seat - steel grey vinyl/cloth mix	
Seat – Passenger Mack-Fixed, bench seat, mid back	
Seat Support, Dust Cover Seat, dust cover for driver's seat	
Seat Armrest Inboard mounted armrest, driver's seat only	
Seatbelt(s) Lap & shoulder (both seats) & lap belt for inboard rider	
Steering Wheel 2 spoke urethane grip, satin aluminum spokes, with switches	
Cab Exterior:	
Grab Handles BF exterior cab grab handles, BL grab handle RH interior windshield post	
Horn - Electrical Dual tone	
Mirrors - Exterior Flat mirror - polished aluminum finish, heated w/out lamps	
Mirrors - Convex Type Cab Doors Bright finish, LH & RH 8" diameter, heated convex	

Mirrors - Convex Hood & Fender 8" round BF fender MTD w/SS brackets & adj. arms RH & LH (same as 15H2001)	
Mirrors – Proximity Rect convex above RH door window	
Sun visor - Exterior Sun visor, exterior, fiberglass (painted)	
Wheels & Tires:	
Tires Brand/Type - Front 425/65R22.5 L Bridgestone M864 (Total for QTY=2)	
Wheels - Front 22.5x12.25 Alcoa LvI One Alum Disc, 10-hole hub piloted (11 1/4"/286mm BC) 5.81" offset (Total for QTY=2)	
Wheel Finishing, Front Polished w/dura-bright protection (Total for QTY=2)	
Tires Brand/Type - Rear 11R22.5 H Bridgestone M799 (drive only) (Total for QTY=8)	
Wheels - Rear 22.5x8.25 Hayes Lemmerz steel disc 10-hole hub piloted, two hand holes (11 ¼"/286mm BC) (Total for QTY=8)	
Drive Wheel Studs Drive wheel studs longer length All wheels must be White	
Communication Systems:	
Co-Pilot - Display Features Access Level Display features access, full driver access	

Remote Software Upgrade Without remote software upgrade		
Software Download Password Without software download passwo	rd .	
Software Download Notification Without software download notification	tion	
Engine Electronics:		
Engine Idle Cooldown Engine idle cooldown, enabled		
Idle Shutdown Engine idle shutdown, enable		
EL Hand Throttle, Max Engine Spee Electronic hand throttle, max engine		
Vehicle Specification Calculated Performance Summa	ary:	
Front Frame Extension	20.0 inches	
Bumper to Front Axle	49.0 inches	
Wheelbase	283.8 inches	
Rear Overhang	106.2 inches	
Overall Length	439.0 inches	
Bumper to Back of Cab	136.5 inches	
Eff. Bumper to Back of Cab	136.5 inches	
Eff. Cab to Rear Axle	196.3 inches	
Eff. Front Axle to Back of Cab	87.5 inches	
Eff. Cab to End of Frame	302.4 inches	

Unladen 5th Wheel Height	0.0 inches	
Unladen Frame Height	44.3 inches	
Cab Height	70.9 inches	
Overall Height	115.2 inches	
Driver CG	70.9 inches	
55" Axle Spacing (Bogie wheelbase)	55.0 inches	
Second Front Axle Spacing	0.0 inches	
<u>Calculated Codes – KAX:</u>		
Front Ride Height at Full Load Ride height 206-215mm CL axle to leftlange	ower frame	
Rear Ride Height at Full Load (CA) Ride height 271-290mm, CL axle to flange	lower frame	
Number of Optional Switches Number of optional switches, 6		
Number of Prop. Shafts Three piece prop shafts		
Prop. Shaft Length, Main Axle Main prop. shaft length 1225	-	
Prop. Shaft Length, First Axle First prop. shaft length 1425	-	
Prop. Shaft Length, Second Axle Second prop. shaft axle length, 1225	5 _	
Prop. Shaft First Brkt Vertical		

Routing Bracket Position 4A LH

Routing bracket position 4A (left frame), XM=5950		
Routing Bracket Position 4B LH Routing bracket position 4B (left frame), XM=6350		
Routing Bracket Position 5A RH Routing bracket position 5A (right frame), XM=7250		
Routing Bracket Position 6A LH Routing bracket position 6A (left frame), XM=7250		
Product Description, Single Engine Chassis Driven, Vactor Combo Sewer Cleaner, w/Intuitouch One Button Activation Capabilities 2100i with Roots 824-18" Hg. Blower, 12 yard debris body, 1500 gallons of fresh water		_
Standard Features:		
48"x22"x24" CURBSIDE ALUMINUM TOOLBOX		_
Aluminum or Poly fenders over rear tandems		_
Mud flaps		_
Electric/hydraulic four way boom		_
Color coded sealed electrical system	,	_
Remote pendant control w/35' cord		_
INTUITOUCH ELECTRONIC PACKAGE		_
Double acting dump hoist cylinder		_
Handgun assembly w/35'x 1/2" hose w/quick disconnects		_

High pressure up to 3,000 PSI, low/high pressure	
3" Y-strainer at water pump inlet	
EX-TEN STEEL CYLINDRICAL DEBRIS TANK	
Flexible hose guide	
30 deg. sand nozzle w/carbide inserts	
30 deg. sanitary nozzle w/carbide inserts	
15 deg. penetrator nozzle w/carbide inserts	
Nozzle storage rack	
Vacuum tube storage, for pipes	
10' leader hose	
Flat rear door w/hydraulic locks and door power-up/ down, open/close feature	
Dual 10" stainless steel float shut off system/ rear mounted	
Stainless steel Micro strainers prior to blower	
Debris body vacuum relief system	
Debris deflector plate	
60" dump height	
Water sight gauge DS/PS	
Liquid float level indicator for Debris body	
Digital Water Pressure Gauge	
Boom transport post storage	

Front Joy Stick Boom Control				
3" Y-strainer @ water pump				
PERFORMANCE PACKAGE				
Hydraulic cooling package				
Midship Handgun Coupling				
Side mounted water pump				
Hose wind guide (dual roller)				
Hose footage counter - mechanical				
Hose reel manual hyd. extend/retract				
Hose reel chain cover (full)				
Tachometer/chassis engine w/hour meter At Hose Reel				
Tachometer & Hour Meter/Blower at Hose Reel				
Circuit breakers				
LED lights, clearance, back-ups, stop, tail & turn				
Tow hooks, front and rear				
Electronic back up alarm				
Hydraulic tank shut off valves				
8" vacuum pipe package				
Emergency flare kit				
Fire extinguisher 5lbs				
Low water alarm w/water pump flow indicator				

Digital hose footage counter	
Water pump hour meter	
PTO hour meter	
Digital water pressure gauge	
Vactor 2100i body decal- multi-colored	
Vactor manual, partial manual and USB version -1+dealer	
Additional Features:	
304 STAINLESS STEEL WATER TANKS UPGRADE IN LIEU OF ALUMINUM	
180 degree rotation, 10 ft. hydraulic telescoping boom, front loading 8" suction hose	
Telescopic boom elbow, nickel plated	
80 GPM/2500PSI Variable Flow Water System	
1"x600' Piranha sewer hose, 2500 PSI	
Hydraulic extending/rotating 15" hose reel (1"x800') capacity	
Module paint, Dupont Imron Elite - Sanded primer base	
Debris body flush out system	
6" Decant System w/Knife Valve, Curbside	
6" knife valve w/Cam-Loc, rear door, 3:00 position	
Additional water, water and debris tanks connected	

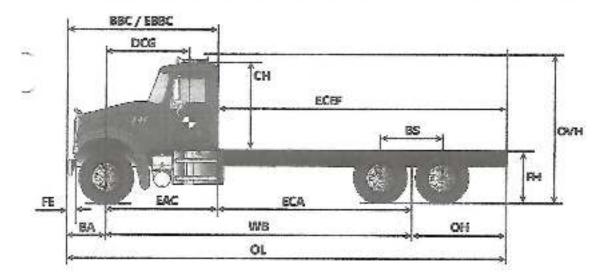
For additional water capacity	
Centrifugal separators cyclones, 2 ea. side	
Full rear door swinging screen	
Rear door valve flush out	
Folding pipe rack, curbside (3)	
Folding pipe rack, street side (3)	
Folding pipe rack, rear door (2)	
Rear door splash shield	
Lube manifold	
Plastic lube chart	
Air purge	
Hot shift blower drive	
Blower high temp safety shutdown	
Wireless controls, including hose reel controls Two way communication LCD display	
Rotatable boom inlet hose, telescoping boom	
Anti-splash valve	
Cold weather recirculator, PTO driven, 25 GPM	
RODDER SYSTEM ACCUMULATOR - JACK HAMMER ON/OFF CONTROL W/MANUAL VALVE	
Handgun couplers, front and rear	
HYDRO EXCAVATION KIT - INCLUDES LANCES, NOZZLES, STORAGE TRAY AND VACUUM TUBES	

Automatic hose level wind guide, indexing	
CYCLONE WASHOUT SYSTEM	
High alloy stainless steel water barrel designed to improve Water barrel life in application where harsh water is used	
Single High pressure hose reel to operate both hand gun And Hydro-x system	
Rodder pump drain valves	
Rear directional control, signal master LED arrow stick, 8 lights	
Waterproof, rechargeable, wireless, handheld, LED spotlight w/12V charger and plug	
14 lighting package, 14 federal signal strobe lights, LED	
LED mid-ship turn signals	
Work lights (2), LED, telescoping boom	
Work lights (2), LED Rear door	
Work light, LED, operator's station	
Work light, LED, hose reel manhole	
Toolbox, front bumper mounted, 16x12x18 w/(2) LED side markers	
Toolbox, behind cab	
Toolbox, driver side chassis frame, 24w x 24h x 24d	
Toolbox, driver side sub frame, 18w x 24h x 24d	
Extra nozzle kit to include bulldog anti blast w/6" chisel	
Camera system front and rear	

Safety cone storage rack - drop in style	
One (1) 8" x 3' aluminum vacuum tube	
Two (2) 8" x 5' aluminum vacuum tube	
Four (4) 8" quick clamp assembly	
One (1) 8" adjustable air adaptor	
Two (2) 3" Y-strainer screen	
One (1) Flexible hose guide	
Work zone lighting package	
(2) Full printed Vactor manual	
Complete wiring schematic from Vactor Complete hydraulic schematic from Vactor Vactor factory training for one operator and one Mechanic Vactor right start training Vactor extended Warranty Vactor must supply one years' worth of maintenance parts In order to stay in	
Compliance with Vactor's Preventive schedule and to adhere to Vactor's warranty terms.	
Mack Granite 64FR Extended Warranty Guaranteed buy back at 10 & 15	
Year maturations Complete Mack operators manual	
Complete Mack parts manual Mack Factory training for two mechanics	
Mack Factory Diagnostic scanner, software & cables Module Paint Match Cab – Yes	
Module Paint Color – White Cab Color – White	
Chassis Axle – Tandem	

Cab and Chassis Dimension:

THE RESERVE OF THE PARTY OF THE	The second secon	ATEO PERFORMANCE S	шмманч	The same of the sa
Description	Select (cdc	Dvg Ne'	P. Art.	6200
Front Risme Estension	N/A	FE	90,0	INCHES
Rumper to Front Add	N/A	265	40.0	DICHES
Whealbare	N/A	WAS	288.8	INCHES
Roar Overheing	N/A	CH	106.2	NCHES
Overall Longits	N/A	02	459.0	NOHES
Bumper to Back of Cab	N/A	BOC	188.5	WOHES
Eff. Bumper to Back of Cab	NA	EE82	135.5	INCHES
BY. Cela to Rear Acte	N/A	t.Co	195.3	INCHES
Eff. Front /wie to Back of Cab	AVA	EAC	87.5	INCHES
Eff. Oats to End of Freme.	RW	808	302.4	INCHES
Unladen 5th Wheel Height	FHBZ1X	412	0.0	INCHES
Unladen Forms Height	N/A	E	44.3	INCHES
Cab Height	N/A	CH	70,9	INCHES
Overali Height	N/A	CVH	118.2	INCHES
Driver OG	N/A	ticg	70.9 ·	INCHES
6" AXLE SPACING (BCCIE WHEELBASE)	SWINNEX	38	-56.0	INCHES
Second Front Aude Spaping	BHXZ1X	SEAS	0.0	INCHES



TRADE-IN:

1997 International 7400 Vactor truck

Mileage: 57,098

Trade-in vehicle will take a DOT sticker and is in fairly good condition

The City of Portsmouth will trade in a 1997 International 7400 Vactor Truck with 57,098 miles. You may set up an appointment to see the vehicle by calling Bill Faulkner, Maintenance Garage Foreman at (603) 766-6210.









Bid Price Proposal Form

Mack Granite 64FR

Model Year:	Equivalent Model:	
\$	\$	
\$ Price in Words	Price in Figures	
Mack Granite Extended Warra	nty	
\$	\$	
Price in Words	Price in Figures	
Trade-in: 1997 International 7	7400 Vactor truck	
\$	Price in Figures	
Price in Words	Price in Figures	
BASIS OF AWARD:		
Grand Total Bid: Mac Gr	anite 64FR plus extended warranty less Trade In	
\$Price in Words	\$ Price in Figures	
Price in Words	Price in Figures	
	expected no later than six months (180 days) from receipt of awar to Department of Public Works, 680 Peverly Hill Road, Portsmou	
APPROXIMATE NUMER	OF DAYS FOR DELIVERY:	
The undersigned agrees that	he/she on behalf of Bidder has read the bid proposal documents,	the

instruction to bidders' specifications and agrees to the terms and conditions set forth herein.

Bidder understands that bid prices shall include delivery FOB to the address identified in the bid documents and bid price shall be firm for at least 45 days.

Bidder further agrees that this bid is not made jointly or in conjunction, cooperation or collusion with any person, firm, corporation or other legal entity.

Bidder agrees no officer, agent or employee of the Owner is directly or indirectly interested in thi
Bid.

Submitted by Authorized Agent:				
_	(Print Name & Title)	_		
Signature: _				
Date:				
Company: _				
Address:				
City/State/Zip:_				
E-mail address:				
Telephone: _				
Fax:				

Please complete attached questionnaire.

CITY OF PORTSMOUTH PURCHASING QUESTIONNAIRE

Your responses to the questions below will be useful to the city in collecting information about how proposers learn about contracting opportunities. Please submit your firm's response to this questionnaire in a separate envelope labeled "Purchasing Questionnaire" at the same time as your proposal/bid is delivered to Portsmouth City Hall.

1. Firm Name:	
2. Address of firm's headquarters (City/Town and S	State) :
3. Address of field office closest to Portsmouth (if a	applicable):
4. How did the firm learn about the solicitation you	u are responding to?
5. What source, method, or other effort is most eff proposals/bids in the City?	fective in alerting your firm about opportunities to submit
6. Is your firm owned by a woman, minority, vetera	
If yes, is your firm "certified" by an organization is the certification from?	ation in relation to the ownership listed above and which
Name of certification: Name of certifying organization:	
regularly by a third-party? NH DOT Prequalification List (any fie NH DES Roster of Prequalified Consu	eld/specialty): yes or no ulting Engineers: yes or no
8. Do any of the sub-consultants or sub-contractors any type – please exclude reference to NH DOT and	s included in your proposal/bid have any certifications (of
Name of Sub	Certification(s) held