A JG09'19 AM10:48 DAS



THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION



Victoria F. Sheehan Commissioner William Cass, P.E. Assistant Commissioner

Bureau of Materials & Research June 14, 2019

His Excellency, Governor Christopher T. Sununu and the Honorable Council State House Concord, New Hampshire 03301

REQUESTED ACTION

Authorize the Department of Transportation to enter into an Agreement with New Hampshire Boring Inc., of Derry, NH, Vendor 156599, for a total fee not to exceed \$400,000.00 for the purpose of providing on-call statewide geotechnical subsurface exploration services from the date of Governor and Council approval through June 30, 2022. 100% Federal Funds.

Funding to support this request are anticipated to be available in the following accounts in State FY 2020 and State FY 2021. Funding is contingent upon the availability and continued appropriation of funds in FY 2022, with the ability to adjust encumbrances through the Budget Office between State Fiscal Years if needed and justified:

	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>
04-96-96-963515-3054			
Consolidated Federal Aid			
046-500464 General Consultants Non-Benefit	\$150,000.00	\$125,000.00	\$125,000.00

The Consolidated Federal Fund, AU 3054, is utilized at this time to encumber funds for this request. Actual funding sources will be determined by each particular project incurring expenses as a result of this request.

EXPLANATION

The Department requires geotechnical subsurface exploration (test boring) services to obtain soil, bedrock and groundwater information used in the design of various Department projects. Geotechnical subsurface explorations provide information needed to perform engineering analysis of foundations for bridges and other structures, for designing highway embankment fills and earth cuts, for assessing drainage needs, and for verifying existing conditions of constructed facilities. This Agreement is needed to supplement State forces engaged in similar efforts during high work-volume periods, and exclusively for performing subsurface explorations on open water. State forces do not possess the required OSHA training or equipment to work in contaminated areas, nor do State forces have the necessary floatation equipment to work on open water.

The contractor selection process was in accordance with the Department's selection procedures for pre-qualified low-bid technical services contracts as outlined in the Department's Procurement Manual Section 2.2 - Statewide Low Bid Contracts. The contract was listed on the Department's "Projects Soliciting for Interest" webpage on February 1, 2019, and email notifications were also sent to ten (10) firms known to provide the required services on February 5, 2019. Letters of interest were received from the four (4) firms. Based on the information provided, the three (3) firms listed below of the four (4) interested firms were pre-qualified and

invited to bid on the proposed contract. One firm, Crawford Drilling Services, LLC, of Westminster, MA, was not pre-qualified due to its lack of capability to perform subsurface explorations on a water body. To enable proper comparison of bids, firms were provided a bid sheet with the same items and quantities listed, which represented the estimated amount of work for the duration of the Agreement. Bids were opened on May 9, 2019 with the following results:

<u>Firm</u>	Location	<u>Total Bid</u>	<u>Rank</u>		
New Hampshire Boring Inc.	Derry, NH	\$ 455,157.50	A		
Terracon Consultants, Inc.	Manchester, NH	\$ 467,967.50	B		
S.W. Cole Explorations, LLC	Somersworth, NH	\$ 698,360.00	C		

Two (2) Agreements were intended to be executed with the two firms submitting the lowest total bids. The lowest bidder was to be awarded a \$400,000.00 contract and the next lowest bidder was to be awarded a \$300,000.00 contract. New England Boring Contractors submitted the lowest total bid (Rank A) and is recommended for the \$400,000.00 contract. (Terracon Consultants, Inc. (Rank B) is recommended for the \$300,000.00 contract, as provided in a separate G&C letter.)

Although the bid cost exceeded the Department's estimate, the low bid by New England Boring Contractors is felt to be reasonable for the work involved. Bids were based on a sample project with hypothetical quantities used to establish unit costs for all 47 items in the contract. Items utilized on a typical on-call assignment are limited based on project needs, and bid prices for nearly half of the individual Items were less than the estimate, including commonly used Items such as general mobilization and barge rig borings. Re-advertising these contracts could result in higher prices and would delay a critical need for the Department. The Department considers it to be in the best interest of the State to accept this bid for the required services.

The Consolidated Federal Aid portion is 80% Federal Funds with 20% State match. Turnpike Toll Credit is being utilized for match requirements, effectively using 100% Federal funds.

The Agreement has been approved by the Attorney General as to form and execution. The Department has verified that the necessary funds are available. Copies of the fully executed Agreement are on file at the Secretary of State's Office and the Department of Administrative Services, and subsequent to Governor and Council approval will be on file at the Department of Transportation.

It is respectfully requested that authority be given to enter into an Agreement with New England Boring Contractors for on-call geotechnical subsurface exploration services (Statewide 42451) as outlined above.

Sincerely,

Victoria F. Sheehan Commissioner

 Department Estimate:
 \$400,000.00

 Low Bid:
 \$455,157.50

 Over Estimate:
 \$55,157.50

VFS/crd Attachments

State of New Hampshire Department of Transportation

STATEWIDE ON-CALL 42451

Geotechnical Subsurface Exploration Services

Contract Dates: (G&C Approval Date) to June 30, 2022

New England Boring Contractors Contractor: **PO Box 165** Derry, NH 03038 Vendor Number: 156599 **Steven Garside, Operations Manager** Contractor Contact: Telephone: (603) 437-1610 Facsimile: (603) 437-0034 E-mail: steven.garside@neboring.com Charles R. Dusseault, PE **DOT Contact: Bureau of Materials & Research** PO Box 483, 5 Hazen Drive Concord NH 03302-0483 Telephone: (603) 271-3151 Facsimile: (603) 271-8700 E-mail: Chuck.Dusseault@dot.nh.gov

.

r

,	STATE	WIDE ON-CALL GEOTECHNICAL SUBSURFACE EXPLORATION SERVICES 42451
	GENE	RAL PROVISIONS1
	1	IDENTIFICATION1
	2	EMPLOYMENT OF CONTRACTOR/SERVICES TO BE PERFORMED2
	3	EFFECTIVE DATE/COMPLETION OF SERVICES
	4	CONDITIONAL NATURE OF AGREEMENT
	5 _.	CONTRACT PRICE/PRICE LIMITATION/ PAYMENT
	6	COMPLIANCE BY CONTRACTOR WITH LAWS AND REGULATIONS/ EQUAL EMPLOYMENT OPPORTUNITY
	7	PERSONNEL2
	8	EVENT OF DEFAULT/REMEDIES
	9	DATA/ACCESS/CONFIDENTIALITY/ PRESERVATION
	10	TERMINATION
)	11	CONTRACTOR'S RELATION TO THE STATE
	12	ASSIGNMENT/DELEGATION/SUBCONTRACTS
	13	INDEMNIFICATION
	14	INSURANCE
	15	WORKERS' COMPENSATION
	16	WAIVER OF BREACH4
	17	NOTICE4
•	18	AMENDMENT4
	19	CONSTRUCTION OF AGREEMENT AND TERMS
	20	THIRD PARTIES
	21	HEADINGS4
	22	SPECIAL PROVISIONS4
	23	SEVERABILITY4

~

J

ł

24	24 ENTIRE AGREEMENT4					
ЕΧ	нівіт а	: TECHNICAL SERVICES TO BE PROVIDED	.5			
2.1	LO	CATION AND DESCRIPTION OF PROJECT	.5			
2.2	SU	PPLEMENTARY DEFINITIONS	.5			
	2.2.1	ENGINEER				
	2.2.2	SUBSURFACE EXPLORATIONS				
	2.2.3	MUTCD	.5			
2.3	sc	OPE OF WORK	.5			
2.5	2.3.1	SUBSURFACE EXPLORATIONS TO BE PROVIDED				
	2.3.2	PURPOSE AND COOPERATION				
	2.3.3	DRILLING RIGS TO BE FURNISHED BY THE CONTRACTOR				
	2.3.4	EQUIPMENT CONDITION				
	2.3.5	PERSONNEL, BORING FOREMAN				
	2.3.6	LANDOWNER CONTACTS				
	2.3.7	PRE-JOB SITE MEETING				
	2.3.8	STANDARD WORK DAY				
	2.3.9	PROFESSIONAL CONDUCT				
	2.3.10		7			
	2.3.11	UTILITY CLEARANCE				
	2312	TRAFFIC CONTROL PLAN				
		EXCAVATION PERMITS				
		· · · · · · · · · · · · · · · · · · ·				
2.4	MA	TERIAL FURNISHED BY THE DEPARTMENT	.8			
	2.4.1	PROJECT ASSIGNMENT	.8			
	2.4.2	NOTICE TO PROCEED	.8			
	2.4.3	PLANS AND FIELD SURVEY	.8			
	2.4.4	PRE-JOB SITE MEETING	.9			
	2.4.5	NOTICE OF ENTRY LETTERS AND LANDOWNER CONTACTS	.9			
	2.4.6	UTILITY CLEARANCE	.9			
	2.4.7	WETLANDS PERMIT, NOTIFICATION TO THE WETLANDS BOARD	.9			
	2.4.8	SERVICES OF UNIFORMED OFFICERS	.9			
	2.4.9	INSPECTION OF THE WORK	.9			
		RK SCHEDULES AND PROGRESS REPORTS	•			
2.5		IKK SCHEDULES AND PROGRESS REPURIS	.9			
	2.5.1	ASSIGNMENT START DATE				
	2.5.2	ASSIGNMENT COMPLETION DATE	.9			
	2.5.3	SUBMISSION OF MATERIALS AND REPORTS	.9			
2.6	NU	MBER AND LOCATION OF EXPLORATIONS	0			
	2.6.1	EXPLORATION LOCATION PLAN				
		OBSTRUCTIONS				
2.7		INTENANCE OF TRAFFIC1				
		TRAFFIC CONTROL PLAN1				
		NOTIFY LOCAL POLICE				
		FLAGGERS1				
	2.7.4	UNIFORMED OFFICERS1	0			

ii

)

.

	2.8	ABANDONED BORINGS	10
	2.0	CASING AND HOLLOW-STEM AUGERS	11
	2.9	•••••	
	2.5	9.2 ADVANCEMENT	
	2.10	SOIL SAMPLING DEVICES	11
	2.	10.1 SPLIT SPOON SAMPLER	11
	2.	10.2 STATIONARY PISTON TUBE SAMPLER	11
	2.11	SOIL BORINGS	11
	2.11	11.1 TYPICALLY PREFERRED METHOD	
		11.2 ADVANCEMENT.	
	2.	11.3 SPLIT SPOON SAMPLES	12
	2.	11.4 STATIONARY PISTON TUBE SAMPLING	12
	۷.	11.5 SAMPLE PRESERVATION AND LABELING REQUIREMENTS	12
	2.	11.6 TELESCOPED CASING	12
	2.12	CORE DRILLING IN ROCK	13
	2.	12.1 SPECIFICATION	13
		12.2 PENETRATION DISTANCE	
		12.3 RECOVERY	
	2.	12.4 SAMPLE PRESERVATION AND LABELING REQUIREMENTS	13
)	2.13	PAVEMENT CORES	13
<i>′</i>	2.14	GROUNDWATER LEVEL OBSERVATIONS	13
	2.15	GROUNDWATER LEVEL OBSERVATION (MONITORING) WELL INSTALLATION	13
	2.16	GROUNDWATER LEVEL OBSERVATION (MONITORING) WELL	
		DECOMMISSIONING	14
	0.47	LOGS AND SAMPLE DELIVERY	14
·	2.17	17.1 LOGS AND SAMPLE DELIVERT	1 4
	2.1	17.2 SAMPLE DELIVERY	14
	2.18	SEALING EXPLORATIONS	14
	2	18.1 NEAT CEMENT GROUT	14
	2.	18.2 PORTLAND CEMENT-BENTONITE GROUT	14
		18.3 STRAIGHT BENTONITE CLAY GROUT	
		18.4 BENTONITÉ CHIPS	
	۷.	18.4 BENTONITE CHIPS	
	2. 2.19	CLEAN UP, SITE RESTORATION	14
		CLEAN UP, SITE RESTORATION	14
	2.19 EXHIB 5.1.1	CLEAN UP, SITE RESTORATION	14 17 17
	2.19 EXHIE 5.1.1	CLEAN UP, SITE RESTORATION	14 17 17 17
	2.19 EXHIE 5.1.1	CLEAN UP, SITE RESTORATION	14 17 17 17 17
	2.19 EXHIE 5.1.1	CLEAN UP, SITE RESTORATION	14 17 17 17 17

 5.1.1.4 INVOICING FOR PAYMENT 5.1.1.5 RECORDS RETENTION 5.1.1.6 BASIS OF PAYMENT AND DEFINITION OF PAY ITEMS ITEM NO. 01 Mobilization and Demobilization Tasks ITEM NO. 02 Per-Boring Mobilization Set-Up ITEM NO. 03 Drive Casing, 3-inch And 4-inch Diameters ITEM NO. 04 Casing Bit Diamond Wear for Spin Casing ITEM NO. 05 Soil Boring, 3-inch or 4-inch Hollow Stem Auger Borings On Land ITEM NO. 06 Additional Split Spoon Samples ITEM NO. 07 3-inch Piston Samples ITEM NO. 08 Rock Core ITEM NO. 09 Pavement Cores ITEM NO. 10 Bore Hole Sealing 	17 17 17 18 19 20 20 20 20 20 20 20				
ITEM NO. 10 Dote Hole Sealing ITEM NO. 11 Observation Wells ITEM NO. 12 Traffic Control ITEM NO. 13 Standby Time ITEM NO. 14 Direct Costs	21 22 23				
EXHIBIT C: SPECIAL PROVISIONS					
22. STANDARD SPECIFICATIONS 22.1 PROPOSAL GUARANTY 22.2 CONTRACT BOND 22.3 INSURANCE 22.4 SUBLETTING OF CONTRACT 22.5 CONTRACT COMPLETION DATE 22.6 FAILURE TO COMPLETE ON TIME	25 25 25 25 25				
CERTIFICATE OF VOTE					
29 CERTIFICATE OF GOOD STANDING					
CERTIFICATES OF INSURANCE	31				
CONTRACTOR'S BID SCHEDULE					

)

 Q_{i}

Notice: This agreement and all of its attachments shall become public upon submission to Governor and Executive Council for approval. Any information that is private, confidential or proprietary must be clearly identified to the agency and agreed to in writing prior to signing the contract.

AGREEMENT

The State of New Hampshire and the Contractor hereby mutually agree as follows:

GENERAL PROVISIONS

1. IDENTIFICATION.			·······				
1.1 State Agency Name		1.2 State Agency Address					
Transportation, Bureau of Materi	als & Research	PO Box 483, 5 Hazen Drive, Cor	ncord, NH 03302-0483				
•							
	· · · · · · · · · · · · · · · · · · ·						
1,3 Contractor Name		1.4 Contractor Address					
New Hampshire Boring, Inc.		PO Box 165, Derry, NH 03038					
-							
······································			1.8 Price Limitation				
1.5 Contractor Phone	1.6 Account Number	1.7 Completion Date	1.6 Frice Emiliation				
Number		1	\$400,000.00				
(603) 437-1610	04-096-096-963515-3034	June 30, 2022	5400,000.00				
	l	1.10 Pasta Assaul Talanhana N	umber				
1.9 Contracting Officer for Stat	e Agency	1.10 State Agency Telephone Nu	4				
William Oldenburg		(603) 271-1814					
A		1.12 Name and Title of Contrac	tor Signatory				
1.11 Contractor Signatore		Thomas Garside, President					
		Thomas Garside, Fresident					
		1					
	Courty of	<u></u>					
1.13 Acknowledgement: State	of NH , County of H	illsborough					
	at a surday intend officer percent	ly appeared the person identified ir	block 1.12 or satisfactorily				
On 5/21/19 , before	e ine undersigned officer, personar	cknowledged that s/he executed thi	s document in the canacity				
	ame is signed in block 1.11, and a	cknowledged that she excedted th	s document in the capacity				
indicated in block 1.12.							
1.13.1 Signature of Notary Public or Justice of the Peace							
	TIME AND						
	[Seal]						
1,15,2 Name and Thre of Notar	y or Justice of the Peace JAYNE F. BURNE, Notary P	ublic					
	My Commission Expires Jan. 1	3, 2021					
1.14 State Agency Signature		1.15 Name and Title of State A	gency Signatory				
1.14 State Theney Signature							
1124	Date: 5/31/19	PETER E. STAMMAS	Director of Project Development				
1.16 Approval by the N.H. Den	partment of Administration, Divisi	on of Personnel (if applicable)					
	,,,,,,,,,,,,,,,,						
By:		Director, On:					
253.							
1.17 Approval by the Attorney General (Form, Substance and Execution) (if applicable)							
, rippio a of the resolution		- ··· ·					
By: C. A A	•	On: 8/7/19					
" (muy C. Sa							
1 18 Approval by the Governor	By: Emily C. Day 1.18 Approval by the Governor ar(d) Executive Council (if applicable)						
	U U U	-					
By:		On:					
1							
)							

2. EMPLOYMENT OF CONTRACTOR/SERVICES TO

BE PERFORMED. The State of New Hampshire, acting through the agency identified in block 1.1 ("State"), engages contractor identified in block 1.3 ("Contractor") to perform, and the Contractor shall perform, the work or sale of goods, or both, identified and more particularly described in the attached EXHIBIT A which is incorporated herein by reference ("Services").

3. EFFECTIVE DATE/COMPLETION OF SERVICES.

3.1 Notwithstanding any provision of this Agreement to the contrary, and subject to the approval of the Governor and Executive Council of the State of New Hampshire, if applicable, this Agreement, and all obligations of the parties hereunder, shall become effective on the date the Governor and Executive Council approve this Agreement as indicated in block 1.18, unless no such approval is required, in which case the Agreement shall become effective on the date the Agreement is signed by the State Agency as shown in block 1.14 ("Effective Date").

3.2 If the Contractor commences the Services prior to the Effective Date, all Services performed by the Contractor prior to the Effective Date shall be performed at the sole risk of the Contractor, and in the event that this Agreement does not become effective, the State shall have no liability to the Contractor, including without limitation, any obligation to pay the Contractor for any costs incurred or Services performed. Contractor must complete all Services by the Completion Date specified in block 1.7.

). CONDITIONAL NATURE OF AGREEMENT.

Notwithstanding any provision of this Agreement to the contrary, all obligations of the State hereunder, including, without limitation, the continuance of payments hereunder, are contingent upon the availability and continued appropriation of funds, and in no event shall the State be liable for any payments hereunder in excess of such available appropriated funds. In the event of a reduction or termination of appropriated funds, the State shall have the right to withhold payment until such funds become available, if ever, and shall have the right to terminate this Agreement immediately upon giving the Contractor notice of such termination. The State shall not be required to transfer funds from any other account to the Account identified in block 1.6 in the event funds in that Account are reduced or unavailable.

5. CONTRACT PRICE/PRICE LIMITATION/ PAYMENT.

5.1 The contract price, method of payment, and terms of payment are identified and more particularly described in EXHIBIT B which is incorporated herein by reference.
5.2 The payment by the State of the contract price shall be the only and the complete reimbursement to the Contractor for all expenses, of whatever nature incurred by the Contractor in the performance hereof, and shall be the only and the complete compensation to the Contractor for the Services. The State shall have no liability to the Contractor other than the contract price.

5.3 The State reserves the right to offset from any amounts otherwise payable to the Contractor under this Agreement those liquidated amounts required or permitted by N.H. RSA 80:7 through RSA 80:7-c or any other provision of law.
5.4 Notwithstanding any provision in this Agreement to the contrary, and notwithstanding unexpected circumstances, in no event shall the total of all payments authorized, or actually made hereunder, exceed the Price Limitation set forth in block 1.8.

6. COMPLIANCE BY CONTRACTOR WITH LAWS AND REGULATIONS/ EQUAL EMPLOYMENT OPPORTUNITY.

6.1 In connection with the performance of the Services, the Contractor shall comply with all statutes, laws, regulations, and orders of federal, state, county or municipal authorities which impose any obligation or duty upon the Contractor, including, but not limited to, civil rights and equal opportunity laws. This may include the requirement to utilize auxiliary aids and services to ensure that persons with communication disabilities, including vision, hearing and speech, can communicate with, receive information from, and convey information to the Contractor. In addition, the Contractor shall comply with all applicable copyright laws. 6.2 During the term of this Agreement, the Contractor shall not discriminate against employees or applicants for employment because of race, color, religion, creed, age, sex, handicap, sexual orientation, or national origin and will take affirmative action to prevent such discrimination. 6.3 If this Agreement is funded in any part by monies of the United States, the Contractor shall comply with all the provisions of Executive Order No. 11246 ("Equal Employment Opportunity"), as supplemented by the regulations of the United States Department of Labor (41 C.F.R. Part 60), and with any rules, regulations and guidelines as the State of New Hampshire or the United States issue to implement these regulations. The Contractor further agrees to permit the State or United States access to any of the Contractor's books, records and accounts for the purpose of ascertaining compliance with all rules, regulations and orders, and the covenants, terms and conditions of this Agreement.

7. PERSONNEL.

7.1 The Contractor shall at its own expense provide all personnel necessary to perform the Services. The Contractor warrants that all personnel engaged in the Services shall be qualified to perform the Services, and shall be properly licensed and otherwise authorized to do so under all applicable laws.

7.2 Unless otherwise authorized in writing, during the term of this Agreement, and for a period of six (6) months after the Completion Date in block 1.7, the Contractor shall not hire, and shall not permit any subcontractor or other person, firm or corporation with whom it is engaged in a combined effort to perform the Services to hire, any person who is a State employee or official, who is materially involved in the procurement, administration or performance of this

Page 2 of 4

Contractor Initials Date 5/21/19

Agreement. This provision shall survive termination of this Agreement.

7.3 The Contracting Officer specified in block 1.9, or his or

her successor, shall be the State's representative. In the event of any dispute concerning the interpretation of this Agreement, the Contracting Officer's decision shall be final for the State.

8. EVENT OF DEFAULT/REMEDIES.

8.1 Any one or more of the following acts or omissions of the Contractor shall constitute an event of default hereunder ("Event of Default"):

8.1.1 failure to perform the Services satisfactorily or on schedule;

8.1.2 failure to submit any report required hereunder; and/or 8.1.3 failure to perform any other covenant, term or condition of this Agreement.

8.2 Upon the occurrence of any Event of Default, the State may take any one, or more, or all, of the following actions: 8.2.1 give the Contractor a written notice specifying the Event of Default and requiring it to be remedied within, in the absence of a greater or lesser specification of time, thirty (30) days from the date of the notice; and if the Event of Default is not timely remedied, terminate this Agreement, effective two (2) days after giving the Contractor notice of termination;

8.2.2 give the Contractor a written notice specifying the Event of Default and suspending all payments to be made under this Agreement and ordering that the portion of the contract price which would otherwise accrue to the Contractor during the

)eriod from the date of such notice until such time as the State determines that the Contractor has cured the Event of Default shall never be paid to the Contractor;

8.2.3 set off against any other obligations the State may owe to the Contractor any damages the State suffers by reason of any Event of Default; and/or

8.2.4 treat the Agreement as breached and pursue any of its remedies at law or in equity, or both.

9. DATA/ACCESS/CONFIDENTIALITY/ PRESERVATION.

9.1 As used in this Agreement, the word "data" shall mean all information and things developed or obtained during the performance of, or acquired or developed by reason of, this Agreement, including, but not limited to, all studies, reports, files, formulae, surveys, maps, charts, sound recordings, video recordings, pictorial reproductions, drawings, analyses, graphic representations, computer programs, computer printouts, notes, letters, memoranda, papers, and documents, all whether finished or unfinished.

9.2 All data and any property which has been received from the State or purchased with funds provided for that purpose under this Agreement, shall be the property of the State, and shall be returned to the State upon demand or upon termination of this Agreement for any reason.
9.3 Confidentiality of data shall be governed by N.H. RSA

chapter 91-A or other existing law. Disclosure of data equires prior written approval of the State. 10. TERMINATION. In the event of an early termination of this Agreement for any reason other than the completion of the Services, the Contractor shall deliver to the Contracting Officer, not later than fifteen (15) days after the date of termination, a report ("Termination Report") describing in detail all Services performed, and the contract price earned, to and including the date of termination. The form, subject matter, content, and number of copies of the Termination Report shall be identical to those of any Final Report described in the attached EXHIBIT A.

11. CONTRACTOR'S RELATION TO THE STATE. In

the performance of this Agreement the Contractor is in all respects an independent contractor, and is neither an agent nor an employee of the State. Neither the Contractor nor any of its officers, employees, agents or members shall have authority to bind the State or receive any benefits, workers' compensation or other emoluments provided by the State to its employees.

12. ASSIGNMENT/DELEGATION/SUBCONTRACTS.

The Contractor shall not assign, or otherwise transfer any interest in this Agreement without the prior written notice and consent of the State. None of the Services shall be subcontracted by the Contractor without the prior written notice and consent of the State.

13. INDEMNIFICATION. The Contractor shall defend, indemnify and hold harmless the State, its officers and employees, from and against any and all losses suffered by the State, its officers and employees, and any and all claims, liabilities or penalties asserted against the State, its officers and employees, by or on behalf of any person, on account of, based or resulting from, arising out of (or which may be claimed to arise out of) the acts or omissions of the Contractor. Notwithstanding the foregoing, nothing herein contained shall be deemed to constitute a waiver of the sovereign immunity of the State, which immunity is hereby reserved to the State. This covenant in paragraph 13 shall survive the termination of this Agreement.

14. INSURANCE.

14.1 The Contractor shall, at its sole expense, obtain and maintain in force, and shall require any subcontractor or assignee to obtain and maintain in force, the following insurance:

14.1.1 comprehensive general liability insurance against all claims of bodily injury, death or property damage, in amounts of not less than \$1,000,000per occurrence and \$2,000,000 aggregate ; and

14.1.2 special cause of loss coverage form covering all property subject to subparagraph 9.2 herein, in an amount not less than 80% of the whole replacement value of the property. 14.2 The policies described in subparagraph 14.1 herein shall be on policy forms and endorsements approved for use in the State of New Hampshire by the N.H. Department of Insurance, and issued by insurers licensed in the State of New Hampshire.

Page 3 of 4

Contractor Initials Date \$721/19

14.3 The Contractor shall furnish to the Contracting Officer identified in block 1.9, or his or her successor, a certificate(s) of insurance for all insurance required under this Agreement.

Contractor shall also furnish to the Contracting Officer Identified in block 1.9, or his or her successor, certificate(s) of insurance for all renewal(s) of insurance required under this Agreement no later than thirty (30) days prior to the expiration date of each of the insurance policies. The certificate(s) of insurance and any renewals thereof shall be attached and are incorporated herein by reference. Each certificate(s) of insurance shall contain a clause requiring the insurer to provide the Contracting Officer identified in block 1.9, or his or her successor, no less than thirty (30) days prior written notice of cancellation or modification of the policy.

15. WORKERS' COMPENSATION.

15.1 By signing this agreement, the Contractor agrees, certifies and warrants that the Contractor is in compliance with or exempt from, the requirements of N.H. RSA chapter 281-A ("Workers' Compensation").

15.2 To the extent the Contractor is subject to the requirements of N.H. RSA chapter 281-A, Contractor shall maintain, and require any subcontractor or assignee to secure and maintain, payment of Workers' Compensation in connection with activities which the person proposes to undertake pursuant to this Agreement. Contractor shall furnish the Contracting Officer identified in block 1.9, or his or her successor, proof of Workers' Compensation in the manner described in N.H. RSA chapter 281-A and any applicable renewal(s) thereof, which shall be attached and are Incorporated herein by reference. The State shall not be responsible for payment of any Workers' Compensation premiums or for any other claim or benefit for Contractor, or any subcontractor or employee of Contractor, which might arise under applicable State of New Hampshire Workers' Compensation laws in connection with the performance of the Services under this Agreement.

16. WAIVER OF BREACH. No failure by the State to enforce any provisions hereof after any Event of Default shall be deemed a waiver of its rights with regard to that Event of Default, or any subsequent Event of Default. No express failure to enforce any Event of Default shall be deemed a waiver of the right of the State to enforce each and all of the provisions hereof upon any further or other Event of Default on the part of the Contractor.

17. NOTICE. Any notice by a party hereto to the other party shall be deemed to have been duly delivered or given at the time of mailing by certified mail, postage prepaid, in a United States Post Office addressed to the parties at the addresses given in blocks 1.2 and 1.4, herein.

18. AMENDMENT. This Agreement may be amended, waived or discharged only by an instrument in writing signed by the parties hereto and only after approval of such amendment, waiver or discharge by the Governor and Executive Council of the State of New Hampshire unless no such approval is required under the circumstances pursuant to State law, rule or policy.

19. CONSTRUCTION OF AGREEMENT AND TERMS.

This Agreement shall be construed in accordance with the laws of the State of New Hampshire, and is binding upon and inures to the benefit of the parties and their respective successors and assigns. The wording used in this Agreement is the wording chosen by the parties to express their mutual intent, and no rule of construction shall be applied against or in favor of any party.

20. THIRD PARTIES. The parties hereto do not intend to benefit any third parties and this Agreement shall not be construed to confer any such benefit.

21. HEADINGS. The headings throughout the Agreement are for reference purposes only, and the words contained therein shall in no way be held to explain, modify, amplify or aid in the interpretation, construction or meaning of the provisions of this Agreement.

22. SPECIAL PROVISIONS. Additional provisions set forth in the attached EXHIBIT C are incorporated herein by reference.

23. SEVERABILITY. In the event any of the provisions of this Agreement are held by a court of competent jurisdiction to be contrary to any state or federal law, the remaining provisions of this Agreement will remain in full force and effect.

24. ENTIRE AGREEMENT. This Agreement, which may be executed in a number of counterparts, each of which shall be deemed an original, constitutes the entire Agreement and understanding between the parties, and supersedes all prior Agreements and understandings relating hereto.

> Contractor Initials Date 5/21/19

Page 4 of 4

STATEWIDE ON-CALL GEOTECHNICAL SUBSURFACE EXPLORATION SERVICES 42451

EXHIBIT A: TECHNICAL SERVICES TO BE PROVIDED

2.1 LOCATION AND DESCRIPTION OF PROJECT

The types of services required under the terms of this AGREEMENT shall be SUBSURFACE EXPLORATIONS, defined herein, that the DEPARTMENT may require at any time during this AGREEMENT until its completion date.

2.2 SUPPLEMENTARY DEFINITIONS

In addition to terms defined elsewhere in this AGREEMENT and in Section 101 of the DEPARTMENT's Standard Specifications for Road & Bridge Construction, the following definitions shall be applicable:

2.2.1 ENGINEER

An employee or designated representative of the DEPARTMENT, responsible for observation of the work performed by the CONTRACTOR and for communication with the CONTRACTOR concerning the DEPARTMENT's project objectives and requirements. The term ENGINEER includes without limitation engineers, technicians, geologists, soil scientists, earth scientists, and others so designated.

2.2.2 SUBSURFACE EXPLORATIONS

The term SUBSURFACE EXPLORATIONS shall include but not be limited to the following subsurface investigations to be performed by CONTRACTOR with geotechnical drilling equipment: cased wash borings; hollow-stem auger borings; solid-stem auger probes; stationary piston tube sampling; diamond bit coring; spin-casing; installation of groundwater sampling (monitoring) wells, groundwater level (observation) wells and piezometers; pavement coring; and decommissioning of existing groundwater monitoring or observation wells.

2.2.3 MUTCD

)

For development and implementation of traffic control, the current version of the "Manual on Uniform Traffic Control Devices for Streets and Highways" published by the United States Department of Transportation Federal Highway Administration (defined as MUTCD for this AGREEMENT) shall define acceptable practice and signage. FHWA has the manual available (for purchase in hard copy or on CD, or printable in PDF format) through the Internet at the following link: <u>http://mutcd.fhwa.dot.gov/index.htm</u>.

2.3 SCOPE OF WORK

2.3.1 SUBSURFACE EXPLORATIONS to Be Provided

The work to be performed under the terms of this AGREEMENT shall be geotechnical SUBSURFACE EXPLORATIONS, as defined under paragraph 2.2.2 of this AGREEMENT, which the DEPARTMENT may assign to determine subsurface conditions at various DEPARTMENT project sites throughout the State. Project sites may include present and/or proposed locations for roadways, bridges, or other structures anywhere within the State of New Hampshire, or in an adjacent state for projects that cross a border. The CONTRACTOR will not be required to work on more than one work site at any given time, unless by mutual agreement between the DEPARTMENT and the CONTRACTOR. Work may be required both on land and over inland water bodies. Work may be required in an area of known or suspected contaminated soil or groundwater, so HAZWOPER protocols may be needed in performance of the work. Work in adverse weather and winter conditions may also be required since assignments can occur at any time during the contract. Standard contract compensation rates will be applicable to all working conditions without adjustment.

2.3.2 Purpose and Cooperation

The purpose of these SUBSURFACE EXPLORATIONS is to obtain reliable data regarding character and elevation of soil and rock formations. The CONTRACTOR shall give the DEPARTMENT every facility to obtain its own records and determine every detail of the work as it progresses.

STATEWIDE ON-CALL GEOTECHNICAL SUBSURFACE EXPLORATION SERVICES 42451

2.3.3 Drilling Rigs to Be Furnished By the CONTRACTOR

This AGREEMENT requires SUBSURFACE EXPLORATIONS to be made by several alternative types of equipment. Definitions of the categories of drill rigs to be provided by the CONTRACTOR are listed below. The final decision regarding mobilization of different types of drill rigs, for assignment of the equipment category to be utilized on each boring and for payment purposes, will be made by the ENGINEER in consultation with the CONTRACTOR.

The CONTRACTOR shall have the capability of furnishing, when directed, one working drill rig with accessory equipment and equipment operators on the site at all times for the duration of the work. If the drill rig breaks down or becomes damaged so it is unusable, it shall be replaced with a working drill rig without compensation. The DEPARTMENT reserves the option to request more than one drill rig be furnished on a project; however, it is anticipated that most assignments will require a single rig. On assignments requiring multiple rigs, the CONTRACTOR may, with approval of the DEPARTMENT, utilize hired equipment or the services of a subcontractor for the additional drill rig(s). Any additional drill rigs on a project beyond the one required will be compensated as a general mobilization or at direct costs if subcontracted.

2.3.3.1 Cathead Rig

A cathead rig means a light-weight, power-assisted test boring machine having a power-driven rotating drum mounted on a portable tripod, or other portable soil drive sampling equipment, which can be man carried to a boring location that is not accessible to a vehicle-mounted drill rig.

2.3.3.2 Truck Rig

A truck rig means a test boring drilling machine mounted on a highway vehicle that is normally driven under its own power both to the work site and to the boring location. This class of drill rig includes wheeled trailer mounted drill rigs towed by a truck.

2.3.3.3 Track Rig

A track rig means a test boring drilling machine mounted on a tracked vehicle or on an all terrain vehicle (ATV) which is normally transported to the work site on a trailer and which can then be driven under its own power off the highway over rough terrain to the boring location.

2.3.3.4 Skid Rig

A skid rig means a test boring drilling machine mounted on skids or on a trailer that is dragged or towed to the drilling location using a self-mounted winch or other machinery.

2.3.3.5 Barge Rig

A barge rig means a drill rig mounted on a barge, raft or other flotation equipment, for drilling on surface water bodies, together with support boats, trailers or other vehicles needed for site mobilization/demobilization and access for CONTRACTOR and ENGINEER to and from the drill rig. The CONTRACTOR may, with prior DEPARTMENT approval, subcontract barge work over inland water bodies.

2.3.4 Equipment Condition

All equipment provided by the CONTRACTOR shall be properly maintained in sound condition and shall be of a quality and type suitable for subsurface drilling. In the judgment of the ENGINEER any mobilized equipment that does not meet these conditions may be rejected, and the CONTRACTOR will replace the rejected equipment without additional compensation.

2.3.5 Personnel, Boring Foreman

The CONTRACTOR shall furnish only competent, trained and experienced personnel consisting of a minimum of one driller and one helper for each drill rig. The CONTRACTOR shall also keep at the site of the work, at all times during its progress, a competent boring foreman and any necessary assistants. The CONTRACTOR may designate the driller to act as the boring foreman. The boring foreman shall represent the CONTRACTOR, and all directions given by the ENGINEER to the foreman shall be as binding as if given to the CONTRACTOR directly.

STATEWIDE ON-CALL GEOTECHNICAL SUBSURFACE EXPLORATION SERVICES 42451

2.3.6 Landowner Contacts

CONTRACTOR shall not notify or contact private landowners without obtaining prior approval from the DEPARTMENT. The DEPARTMENT may require CONTRACTOR to contact private landowners located outside the project limits whose property the CONTRACTOR desires to cross for ease of access to the locations of the SUBSURFACE EXPLORATIONS. As stated under paragraph 2.4.5, the DEPARTMENT shall be responsible for landowner contacts for properties having proposed exploration locations.

2.3.7 Pre-Job Site Meeting

For each Notice to Proceed issued by the DEPARTMENT to the CONTRACTOR under paragraph 2.4.2, the CONTRACTOR shall provide a representative to meet with a representative from the DEPARTMENT at the location of the proposed SUBSURFACE INVESTIGATIONS, if such a meeting is requested by the ENGINEER. The Pre-Job Site Meeting will take place a minimum of 10 business days prior to initiation of SUBSURFACE INVESTIGATIONS. The purpose of the Pre-Job Site Meeting will be to discuss the proposed scope of work, site access, traffic control, landowner access, and any other issues that may relate to the performance of the SUBSURFACE INVESTIGATIONS. The CONTRACTOR shall not be compensated separately for attending the Pre-Job Site Meeting.

2.3.8 Standard Work Day

The CONTRACTOR shall work a minimum 8-hour workday. No work shall be done before 7:00 a.m. or after 3:00 p.m., prevailing time, or on Saturdays, Sundays or legal State holidays, unless expressly permitted by the DEPARTMENT. Once the CONTRACTOR establishes a project work schedule within the requirements of this paragraph, the ENGINEER may order the CONTRACTOR to suspend work during a portion of the standard workday, for special situations that are in the best interest of the DEPARTMENT. The determination of a special situation and qualification for payment of Standby Time will be made solely by the ENGINEER.

2.3.9 Professional Conduct

CONTRACTOR personnel or subcontractor shall perform the assigned work under this AGREEMENT in a professional and cooperative manner. If these conditions are not met by any CONTRACTOR personnel or subcontractor, they shall be removed from the work site immediately upon request of the ENGINEER. The CONTRACTOR shall not be compensated separately for replacement of personnel rejected by the ENGINEER or for standby time resulting from the CONTRACTOR's failure to meet these conditions.

2.3.10 Environmental Regulations

Equipment and work practices for projects located within the jurisdiction of the New Hampshire Department of Environmental Services Wetlands Bureau shall meet all applicable statutes, rules and permitting requirements for wetlands. Work in areas of known or suspected soil or groundwater contamination shall comply with applicable New Hampshire Department of Environmental Services hazardous material rules and OSHA regulations. The installation or decommissioning of groundwater monitoring wells shall comply with the New Hampshire Department of Environmental Services Water Well Board rules, http://www.gencourt.state.nh.us/rules/state_agencies/we100-1000.html.

2.3.11 Utility Clearance

The CONTRACTOR shall not proceed with any SUBSURFACE EXPLORATIONS without receiving notice from the ENGINEER that the DEPARTMENT has performed a utility clearance including contacting DIG-SAFE as described in paragraph 2.4.6. Alternately if assigned, the CONTRACTOR shall perform all utility clearance related tasks including: pre-marking, contacting DIG-SAFE, and contacting other non-member utility owners, prior to commencement of the SUBSURFACE EXPLORATIONS. On occasion, the services of a utility locating company may be required for locating a utility that is not a member of DIG-SAFE. If authorized by the ENGINEER, this service shall be hired by the CONTRACTOR, the cost of which will be reimbursed as a direct expense. The CONTRACTOR may perform their own utility clearance even if this task is performed by the DEPARTMENT; however, the CONTRACTOR will not be compensated by the DEPARTMENT in this circumstance. DIG SAFE can be contacted by calling 811 or 1-888-344-7233, or by visiting their website at http://www.digsafe.com/.

STATEWIDE ON-CALL GEOTECHNICAL SUBSURFACE EXPLORATION SERVICES 42451

2.3.12 Traffic Control Plan

When SUBSURFACE EXPLORATIONS will be performed in or adjacent to traffic, requiring traffic controls provided by the CONTRACTOR, the CONTRACTOR shall prepare a written TRAFFIC CONTROL PLAN and submit it to the DEPARTMENT for review and approval a minimum of 10 business days prior to the start date specified in the Notice to Proceed defined in paragraph 2.4.2. The draft TRAFFIC CONTROL. • PLAN shall describe proposed traffic control setups and devices to be used at each exploration location and for any CONTRACTOR mobilization or demobilization operations near traffic.

The DEPARTMENT will provide written review comments on the draft TRAFFIC CONTROL PLAN to the CONTRACTOR a maximum of 5 business days following receipt of CONTRACTOR'S draft TRAFFIC CONTROL PLAN. The CONTRACTOR will incorporate the DEPARTMENT's comments into a final TRAFFIC CONTROL PLAN, which will become the basis for traffic control for the duration of that assignment.

The TRAFFIC CONTROL PLAN and the implementation of the TRAFFIC CONTROL PLAN shall conform to the MUTCD, as defined in paragraph 2.2.3. By signing this AGREEMENT, CONTRACTOR acknowledges possession of and familiarity with the MUTCD.

At its discretion, the DEPARTMENT will develop the TRAFFIC CONTROL PLAN and provide traffic control with its own forces for the CONTRACTOR. The CONTRACTOR shall not be entitled to any reimbursement for traffic controls set up by the DEPARTMENT.

2.3.13 Excavation Permits

The CONTRACTOR shall obtain any necessary excavation permit from the local municipality or State Maintenance District before proceeding with any SUBSURFACE EXPLORATIONS under this AGREEMENT. The cost of any permit is reimbursable as a direct expense.

I.

2.4 MATERIAL FURNISHED BY THE DEPARTMENT

The DEPARTMENT will provide the following items to the CONTRACTOR.

2.4.1 Project Assignment

As needs develop on a project-by-project basis, the DEPARTMENT will contact the CONTRACTOR and request their services. Each specific assignment will be issued in a letter, or verbally with a follow-up letter to document the verbal notice. The project assignment letter will identify the project location and will include an exploration location plan and an estimate of the quantity of work required.

2.4.2 Notice to Proceed

The DEPARTMENT will issue a Notice to Proceed, notifying the CONTRACTOR to begin work on a specific project. The Notice to Proceed will include a maximum dollar cost for the work (the so-called upset fee) that will not be exceeded by the CONTRACTOR. The Notice to Proceed will also include dates, set in consultation with the CONTRACTOR, for starting and completing work on the assigned project. The Project Assignment and the Notice to Proceed may be combined into a single document.

2.4.3 Plans and Field Survey

The DEPARTMENT will provide the CONTRACTOR with an exploration layout plan and field survey required to locate requested explorations, probes, or wells. Locations of work on water will be marked with a survey stake where possible, or may be determined by the CONTRACTOR from reference stakes and a suitable benchmark provided by the DEPARTMENT. The ENGINEER may modify exploration locations in the field to accommodate actual field conditions. The ENGINEER will discuss such modifications with the CONTRACTOR prior to initiating SUBSURFACE EXPLORATIONS at any modified locations. If, in the judgment of the ENGINEER or CONTRACTOR, the TRAFFIC CONTROL PLAN should be amended to address a modified exploration location, the ENGINEER and CONTRACTOR will discuss and amend the TRAFFIC CONTROL PLAN before commencing SUBSURFACE EXPLORATIONS at the modified location. If the ENGINEER and CONTRACTOR cannot amend the TRAFFIC CONTROL PLAN to their mutual satisfaction, then no SUBSURFACE EXPLORATION shall be performed at the modified location until the traffic control measures are resolved.

STATEWIDE ON-CALL GEOTECHNICAL SUBSURFACE EXPLORATION SERVICES 42451

2.4.4 Pre-Job Site Meeting

The DEPARTMENT will schedule and coordinate the Pre-Job Site Meeting per paragraph 2.3.7. Attendance by a knowledgeable representative of the CONTRACTOR is required.

2.4.5 Notice of Entry Letters and Landowner Contacts

The DEPARTMENT will contact landowners verbally and/or by mail and provide notice of Entry letters to property owners within the project limits who are to be affected by the work, and the DEPARTMENT will be responsible for communicating with property owners within the project limits. As stated under paragraph 2.3.6, the CONTRACTOR shall be responsible for landowner contacts needed for the convenience of their operations.

2.4.6 Utility Clearance

It is intended for all assignments that the DEPARTMENT will perform the utility clearance of the work site. The DEPARTMENT will pre-mark the project site and notify the utility damage prevention system, DIG-SAFE, of the intended SUBSURFACE EXPLORATIONS. The DEPARTMENT will inform the CONTRACTOR of identified utilities near the work. In the event the DEPARTMENT cannot complete the utility clearance, the CONTRACTOR will be assigned this task per paragraph 2.3.11.

2.4.7 Wetlands Permit, Notification to the Wetlands Board

The DEPARTMENT will file a wetlands permit application in consultation with the CONTRACTOR, for assignments requiring a permit. For projects within the jurisdiction of the Wetlands Board but for which no permit is required, the DEPARTMENT will notify the Wetlands Bureau, and other bodies as required, of the intended work. The CONTRACTOR shall subsequently comply with the terms and conditions listed on the Wetlands Permit and/or the applicable Rules.

2.4.8 Services of Uniformed Officers

The DEPARTMENT will pay directly for services of uniformed police officers required under paragraph 2.7.4.

2.4.9 Inspection of the Work

The CONTRACTOR's work shall be done in accordance with this AGREEMENT under the general direction of the DEPARTMENT or its authorized representatives. All work shall be accomplished only in the presence of the ENGINEER.

2.5 WORK SCHEDULES AND PROGRESS REPORTS

2.5.1 Assignment Start Date

The CONTRACTOR shall begin work on an assigned project on the start date specified in the Notice to Proceed, or by a later date mutually agreed upon by the CONTRACTOR and the ENGINEER. Once equipment is mobilized and explorations begin, the CONTRACTOR shall work continuously to complete the assignment without delay unless agreed otherwise by the ENGINEER.

2.5.2 Assignment Completion Date

The completion date for work to be done on a specific site will be specified in the Notice to Proceed. The DEPARTMENT shall establish the completion date after consultation with the CONTRACTOR. Extension of the completion date beyond that specified in the Notice to Proceed shall be at the discretion of the DEPARTMENT.

2.5.3 Submission of Materials and Reports

Soil and rock samples, pavement cores, driller field notes if requested, and other required records shall be submitted to the DEPARTMENT within two weeks after completion of field work.

STATEWIDE ON-CALL GEOTECHNICAL SUBSURFACE EXPLORATION SERVICES 42451

2.6 NUMBER AND LOCATION OF EXPLORATIONS

2.6.1 Exploration Location Plan

The Exploration Location Plan for each work site will show the proposed number and type of explorations and the sampling requirements. During the progress of the work, the DEPARTMENT may direct that certain explorations be omitted, may require that the number of explorations be increased, may change sampling requirements, or may change the types or required depths of explorations. Any such change will be based on the needs of the work as determined by the DEPARTMENT and shall be carried out by the CONTRACTOR as if originally specified for the work.

2.6.2 Obstructions

J

The DEPARTMENT makes no representations as to the character of the ground through which the SUBSURFACE EXPLORATIONS are to be made, or that any SUBSURFACE EXPLORATION location given will be found free from obstructions. If field conditions indicate a need to offset SUBSURFACE EXPLORATIONS from their planned location, the new locations shall be approved by the ENGINEER before work is started at the offset location.

2.7 MAINTENANCE OF TRAFFIC

2.7.1 Traffic Control Plan

CONTRACTOR shall be responsible for implementing and adhering to the final TRAFFIC CONTROL PLAN, as approved by the DEPARTMENT, defined under paragraph 2.3.12. Any deviations from the final TRAFFIC CONTROL PLAN shall be discussed with and approved by the ENGINEER prior to implementation in the field.

2.7.2 Notify Local Police

The CONTRACTOR shall obtain permission from and coordinate work activities with local police authorities before beginning any SUBSURFACE EXPLORATIONS as needed.

2.7.3 Flaggers

When required by the final TRAFFIC CONTROL PLAN, the CONTRACTOR shall provide flaggers for traffic control, as a Contract pay item, to control and direct the safe and expeditious movement of traffic through and around the work zones, and to promote increased safety to motorists, pedestrians, the CONTRACTOR's work force, and DEPARTMENT personnel. Flaggers shall be clothed and equipped in accordance with the MUTCD.

2.7.4 Uniformed Officers

It is intended that uniformed officers will be utilized when a lane closure is required to do the explorations, and CONTRACTOR'S TRAFFIC CONTROL PLAN, defined under paragraph 2.3.12, shall reflect this intent. Either the DEPARTMENT or CONTRACTOR may require inclusion of uniformed officers in the Traffic Control Plan for circumstances other than lane closures, if, in its judgment, uniformed officers should be provided for safety.

2.8 ABANDONED BORINGS

Borings shall not be abandoned before reaching the final depth ordered by the DEPARTMENT except on the approval of the ENGINEER. No payment will be made for borings abandoned by reasons of an accident or negligence attributed to the CONTRACTOR. Borings abandoned before reaching required depth, due to an obstruction or other reasonable cause beyond the control of the CONTRACTOR such that the boring cannot be completed with the equipment required under this AGREEMENT, shall be replaced by a supplementary boring adjacent to the original and carried to the required depth. Penetration of the supplemental boring to the completed depth of the original boring may be made by any means selected by the CONTRACTOR and approved by the ENGINEER. Samples shall be taken in the supplementary boring from the elevation at which the original boring was abandoned in a manner specified for the original boring.

If abandoned for reasons acceptable to the ENGINEER, payment will be made for the portion of the abandoned boring approved by the ENGINEER, at the appropriate unit prices for boring and sampling stated in the

STATEWIDE ON-CALL GEOTECHNICAL SUBSURFACE EXPLORATION SERVICES 42451

AGREEMENT, provided the CONTRACTOR presents soil samples and records as specified plus a written statement on the obstruction which necessitated relocating the boring. Payment will also be made for the portion of the supplementary boring extending below the approved, final elevation of the original boring.

2.9 CASING AND HOLLOW-STEM AUGERS

2.9.1 Equipment Requirement

The CONTRACTOR shall provide pipe or drill casing and hollow-stem augers in quantities and sizes adequate for expeditious performance of the work. Casing and hollow-stem augers shall have inside diameters not less than 3 inches for all borings. Larger sizes of casing may be required where obstructions or hard driving require "telescoping" of casing to advance the minimum size casing to the depth of sampling. All holes are to be cased or augured for the upper ten feet and to greater depths as needed to meet field conditions. The ENGINEER may require casing or augers for the full depth of boring if, in the ENGINEER's opinion, successful boring and sampling operations cannot be carried out without casing or augers.

2.9.2 Advancement

Casing shall be driven by a drop weight or spun using a diamond casing shoe. If spun, casing advancement shall be halted six inches above the sampling depth identified by the ENGINEER. Drilling mud or hollow-stem augers may be permitted for use in this work, with the approval of the ENGINEER. Hollow-stem augers shall be equipped with a bottom plug during drilling to limit entrance of soil up inside the augers.

2.10 SOIL SAMPLING DEVICES

Soil sampling devices shall be as described below and approved by the ENGINEER before use:

2.10.1 Split Spoon Sampler

Split spoon sampler shall be a two-inch outside diameter, split-barrel sampler with a 24-inch long barrel, equivalent to the equipment described in the American Association of State Highway and Transportation Officials (AASHTO) T 206-09 test method, available for reference from the ENGINEER.

2.10.2 Stationary Piston Tube Sampler

Stationary piston tube sampler shall be a three-inch diameter thin wall tube sampler containing a closefitting piston operated by a separate piston rod and a sampler head, with appropriate spring and piston rod check, in accordance with the equipment requirements of the AASHTO T 207-12 test method, available for reference from the ENGINEER.

2.11 SOIL BORINGS

2.11.1 Typically Preferred Method

CONTRACTOR shall commence SUBSURFACE EXPLORATIONS using drive and wash casing, unless an alternative approach is approved in advance by the ENGINEER.

2.11.2 Advancement

Borings will typically be made by advancing casing of the size required and to the extent needed to maintain an open hole without collapse of the hole, and removing soil from within the casing by washing or by drilling with rotary drill utilizing clean wash water. Recirculation of wash water using a washtub may be permitted, so long as the washtub is of adequate capacity and is fitted with a baffle to limit reintroduction of soil cuttings into the borehole. Casing shall be advanced in stages of not more than the specified sampling interval, after which the material within the casing shall be cleaned out to the depth of the casing using a tri-cone roller bit. Bottom discharge washing procedures, including washing through a sampling spoon or open-ended drill rod, shall not be permitted, unless the ENGINEER gives prior approval. A bottom plug shall be used during advancement of hollow-stem augers to limit the entry of soil cuttings into the augers, unless ENGINEER approves otherwise.

STATEWIDE ON-CALL GEOTECHNICAL SUBSURFACE EXPLORATION SERVICES 42451

2.11.3 Split Spoon Samples

Split spoon samples shall be taken in accordance with AASHTO T 206-09, available for reference from the ENGINEER, at vertical intervals typically no greater than 5 feet. The ENGINEER may require continuous split spoon sampling on some borings. After reaching required sampling depth, drilling shall be stopped, the disturbed materials shall be removed from the hole, and a split spoon sample of the underlying undisturbed material shall be taken. A sample retainer basket shall be used in the sampler. The samples shall be removed from the hole in unwashed condition in such a manner as to provide a true sample of soil formations from which they are recovered. Additional requirements for soil sampling beyond the specifications of Exhibit D are as follows:

2.11.3.1 Hammer

A 140-pound automatic hammer shall be used to drive the split spoon sampler for all soil borings. A safety hammer or "doughnut" hammer shall not be utilized unless the ENGINEER gives prior approval. If requested by the ENGINEER, the CONTRACTOR shall provide a hammer system for which the energy transfer efficiency has been determined according to ASTM D4633. For a cathead setup a safety hammer can be used. The CONTRACTOR shall operate the cathead in accordance with Exhibit D.

2.11.3.2 Record-keeping

CONTRACTOR shall record the number of blows required to drive the sampler each 6-inch increment and record the number of blows and actual distance driven for each increment less than 6 inches.

2.11.3.3 Recovery

A recovered split spoon sample measuring at least 25 percent of the driven distance is considered acceptable. When the recovery is less than specified, the CONTRACTOR shall immediately attempt to take a second sample below the depth unsuccessfully sampled, unless directed otherwise by the ENGINEER. Additional samples collected for reason of insufficient recovery of the first sample will not be compensated separately.

2.11.4 Stationary Piston Tube Sampling

Stationary Piston Tube Sampling procedures shall be in accordance with AASHTO T-207-12, available for reference from the ENGINEER. Tube sample ends shall be filled with microcrystalline wax, and then sealed with a cap and electrical tape. Tube samples shall be protected from vibration, shock, temperature extremes, and freezing conditions. The ENGINEER will transport stationary piston tube samples.

2.11.5 Sample Preservation and Labeling Requirements

Immediately on removal from the hole, a portion of the sample recovered in the split barrel sampler or the bottom of the tube sample shall be tightly sealed in a screw-top glass sample jar. The sample jars shall be of a sufficient size such that the samples are placed in the jars in the condition in which they are removed from the split-barrel sampler, without squeezing, masking, or otherwise excessively distorting the sample. For protection during transport and storage, the jars shall be packed in close fitting cardboard boxes with dividers. Each sample jar shall be labeled to show plainly the project name and number, the number of the hole, the depth from which the sample was taken, the sample number, the length of the soil sample recovered, and the number of blows for penetration of the sampler as previously specified. Each box of sample jars shall be labeled to show the project name and the boring number for samples within the box. The CONTRACTOR shall provide such containers, keeping a sufficient supply on hand to prevent any delay in the work.

2.11.6 Telescoped Casing

In the event that obstructions or other drilling difficulties are encountered such that casing can no longer be advanced, the CONTRACTOR may continue the SUBSURFACE EXPLORATION by advancing smaller diameter casing within and beyond the original casing. If so performed, compensation will be made at the appropriate unit prices for boring and sampling stated in the AGREEMENT for advancement as follows: advancement of the original, larger-diameter casing from the ground surface to the depth of

STATEWIDE ON-CALL GEOTECHNICAL SUBSURFACE EXPLORATION SERVICES 42451

its termination, plus compensation for advancement of the smaller diameter, telescoped casing from the depth of termination of the original casing to the bottom of the exploration. No compensation will be made for the smaller diameter casing from the ground surface to the depth of termination of the original casing.

л.

2.12 CORE DRILLING IN ROCK

2.12.1 Specification

Core drilling in rock shall follow the provisions of AASHTO T 225-16, available for reference from the ENGINEER, unless otherwise directed. In borings designated for core drilling in rock, casing with an inner diameter of not less than 3 inches shall be driven to and seated onto bedrock. Double-tube rock coring equipment that results in a core measuring a minimum of 1.875 inches in diameter shall be required. The ENGINEER, on a case-by-case basis, may allow smaller diameters.

2.12.2 Penetration Distance

The CONTRACTOR shall drill a minimum distance of five feet into sound bedrock or to depths as directed by the ENGINEER.

2.12.3 Recovery

Individual drill runs in the coring operations shall in no case exceed the capacity of the core barrel and shall be of such an amount, depending on the nature of the rock encountered, as to assure maximum core recovery. Every effort shall be made by the CONTRACTOR to obtain as full recovery of rock core as possible, and all significant actions of the bit and reasons for loss of core shall be recorded in the boring log.

2.12.4 Sample Preservation And Labeling Requirements

The CONTRACTOR shall preserve and deliver to the DEPARTMENT the entire rock core. Unless otherwise directed, the CONTRACTOR shall follow the applicable provisions of AASHTO T 225-16, available for reference from the ENGINEER, for packaging, labeling, and transporting rock core samples.

2.13 PAVEMENT CORES

Pavement cores shall be made in existing pavement structures through their full thickness, which includes both asphalt and concrete pavements, to obtain a pavement core specimen with a nominal six (6) inch diameter, or as directed by the ENGINEER. Pavement core specimens shall be labeled clearly, so their location of origin can be determined. Pavement core specimens that break into small or many pieces shall be stored in a container or bag, otherwise no container is needed, and the core specimens shall be delivered to the DEPARTMENT.

2.14 GROUNDWATER LEVEL OBSERVATIONS

Observation shall be made of groundwater levels in all completed explorations on land. Any and all unusual water conditions and gain or loss of water in boring operations shall be recorded completely in the boring logs. When drilling mud is used to stabilize the hole, the drill hole shall be thoroughly flushed with clean water on completion of the boring to allow the observation of groundwater levels. Bore holes should be left open as long as practical to allow more stabilized groundwater level measurements.

2.15 GROUNDWATER LEVEL OBSERVATION (MONITORING) WELL INSTALLATION

Groundwater level observation wells shall consist of either, as directed by the ENGINEER, 1-1/2 inch or 2 inch nominal diameter solid well pipe, slotted plastic well screen (0.010 inch slot width), a bottom plug, and a PVC top plug that are installed in a previously drilled boring. For wells with 1-1/2 inch diameter well pipe, 3 inch diameter or larger casing shall be used for the bored hole. For wells with 2 inch diameter well pipe, 4 inch diameter or larger casing shall be used for the bored hole. The well construction and material requirements of ASTM D5092 (Available for reference from the ENGINEER) shall be followed unless directed otherwise herein or by the ENGINEER. The well screen shall be a minimum length of 10 feet. The installed depth within the boring shall be determined by the ENGINEER. Backfilling of the boring in which the well is installed shall generally consist of a bottom bentonite seal (minimum 1 foot thickness), filter sand from a minimum of 1 foot below the bottom of the well screen to a minimum of 1 foot above the top of the well screen, and a minimum 2-foot thick bentonite clay seal along the riser pipe. General backfill above the bentonite clay seal may be soil

STATEWIDE ON-CALL GEOTECHNICAL SUBSURFACE EXPLORATION SERVICES 42451

cuttings removed from the boring or other approved material. An approximately three foot high stickup of riser pipe above the ground surface shall be provided for wells with a riser protective standpipe.

As directed, a lockable, steel protective riser casing or a flush-mounted road box shall be installed for protection of the well pipe. Riser casings and road boxes shall be installed with a surface seal of concrete at least one foot thick. Riser standpipes shall be provided with a padlock and two keys when requested. The padlock brand shall be "Master Lock" with brass key #3212 unless otherwise directed by the ENGINEER.

A Well Completion Report(s) shall be completed per the New Hampshire Department of Environmental Services Water Well Board Rules We 802. A blank copy of the report can be provided by the ENGINEER, or it can be obtained from the DES website at <u>http://des.nh.gov/organization/divisions/water/dwgb/wwb/categories/forms.htm</u>. A copy of the completed Well Completion Report shall be provided to the ENGINEER upon request.

2.16 GROUNDWATER LEVEL OBSERVATION (MONITORING) WELL DECOMMISSIONING

An existing groundwater observation well or monitoring well shall be decommissioned (removed) and the well hole properly backfilled per paragraph 2.18. The CONTRACTOR shall possess a valid NH water well contractor license to perform this work. A well may be in an area of known or suspected contaminated soil or groundwater, so HAZWOPER protocols may be needed in performance of the work. Materials salvaged from the removed well shall become the property of the CONTRACTOR. An Abandoned Well Registration Report shall be completed per the New Hampshire Department of Environmental Services Water Well Board Rules We 604. A blank copy of the report can be provided by the ENGINEER, or it can be obtained from the DES website at http://des.nh.gov/organization/divisions/water/dwgb/wwb/categories/forms.htm. A copy of the completed Abandonment Well Registration Report shall be provided to the ENGINEER upon request.

2.17 LOGS AND SAMPLE DELIVERY

2.17.1 Logs

During the progress of each exploration the CONTRACTOR shall keep a log of the drilling operation. The log shall generally include the items listed in Section 8 of AASHTO T-206-09, available for reference from the ENGINEER.

ì

2.17.2 Sample Delivery

Soil and rock core samples shall be delivered to a location designated by the DEPARTMENT.

2.18 SEALING EXPLORATIONS

At the direction of the ENGINEER, completed borings and decommissioned wells shall be sealed with grout or bentonite clay. The sealing method will depend upon specific site conditions and may consist of one of the following methods or other method required by the New Hampshire Water Department of Environmental Services Water Well Board Rules PART We 604 for well abandonment and decommissioning:

2.18.1 Neat Cement Grout

Pumped through a tremie tube to fill the boring from the bottom and displace drilling fluid during grouting.

2.18.2 Portland Cement-Bentonite Grout

Placed per 2.18.1.

2.18.3 Straight Bentonite Clay Grout

Placed per 2.18.1.

2.18.4 Bentonite Chips

Placed into the top of the boring and allowed to settle to the bottom of the boring. Care shall be used in placement of bentonite chips to prevent bridging in the annulus between the well and the casing.

2.19 CLEAN UP, SITE RESTORATION

The CONTRACTOR shall clean up and leave the work site in a neat and workmanlike manner, to the satisfaction of the ENGINEER. The CONTRACTOR shall exercise due care and shall take every precaution against injuring

STATEWIDE ON-CALL GEOTECHNICAL SUBSURFACE EXPLORATION SERVICES 42451

pavement, utilities, or other property, and shall repair any damage which may occur. Any property damage resulting from the CONTRACTOR's work shall be promptly reported to the ENGINEER. On completion of the work at any exploration location, the CONTRACTOR shall remove equipment, materials and spoil. Brush and other cuttings shall be removed from the work site, as directed by the ENGINEER. All boreholes on land shall be backfilled completely to minimize settlement of the surface. Bore holes may be grouted or filled with soil which is tamped and rodded. The ground surface; whether sidewalks, pavement or grass areas, shall be restored to original condition by patching, seeding or placing sod. No holes, depressions, cracks or protrusions resulting from the work and which is unsightly or could present a hazard to the public will be permitted to remain. The CONTRACTOR may be recalled to the site, during the **one-year** period following the completion of work, to repair surface settlement or cracks that develop in the work area. Except for explorations the ENGINEER orders to be sealed for which there is a separate pay item, CONTRACTOR shall not be compensated separately for clean up, filling of holes, and other site restoration.

STATEWIDE ON-CALL GEOTECHNICAL SUBSURFACE EXPLORATION SERVICES 42451

EXHIBIT B: CONTRACT PRICE, METHOD AND TERMS OF PAYMENT

Note: The following provisions are ADDED to those listed in the State of New Hampshire Agreement Form P-37.

5.1.1 Payment Schedule And Stipulations

The work required under the terms of this AGREEMENT shall be paid for in accordance with the following schedule and stipulations:

5.1.1.1 Agreement Amount

The total cost of all work, expenses and profit under this AGREEMENT shall not exceed Four **Hundred Thousand Dollars (\$400,000.00)**. No payment will be made for work performed in excess of this amount.

5.1.1.2 Compensation Rates

The rates tabulated in the Bid Schedule shall include all charges attributed to direct costs, fringe benefits, payroll taxes, overhead, direct expenses and profit and shall be used in billing for all work done under this AGREEMENT. Sublet portions of the AGREEMENT will be paid at rates tabulated in the Bid Schedule.

5.1.1.3 Method of Measurement.

The amount of work to be paid for shall be the quantity of work, satisfactorily performed by the CONTRACTOR in accordance with the AGREEMENT, completed and accepted by the ENGINEER as conforming to the requirements of these Specifications.

5.1.1.4 Invoicing For Payment

Payments on account of the fee for services rendered under this AGREEMENT will be made by the DEPARTMENT when provided a completely itemized, project-by-project bill submitted on a monthly basis by the CONTRACTOR. The CONTRACTOR has the option to submit a single bill for a given assignment, upon completion of the work, in lieu of monthly bills. Final payments will be based on quantities of work completed and accepted by the DEPARTMENT.

5.1.1.5 Records Retention

The CONTRACTOR shall maintain adequate cost records for all work performed under this AGREEMENT. All records and other evidence pertaining to cost incurred shall be made available at all reasonable times during the AGREEMENT period and for three (3) years from the date of final voucher payment for examination by the STATE, Federal Highway Administration, or other authorized representatives of the Federal Government (if utilized on a Federally funded project), and copies thereof shall be furnished if requested. Applicable cost principles are contained in the Federal Acquisition Regulation (FAR) in Title 48 of the Code of Federal Regulations (Subpart 31.2 and Subpart 31.105).

5.1.1.6 Basis of Payment and Definition of Pay Items.

The accepted quantity of work will be paid for at the contract unit prices for the work as defined below. For payment purposes, borings drilled from an existing bridge deck or with machinery standing in water shall be considered as soil borings on land, and measurement shall be from the ground surface at the bottom of the water body to the bottom of boring.

ITEM NO. 01 Mobilization and Demobilization Tasks

ITEM NO. 01.1 General Mobilization and Demobilization

For general mobilization and demobilization for each assigned project on which the CONTRACTOR performs subsurface exploration services, payment will be made at the contract unit price for the number of drill rigs, as directed in the Notice To Proceed, to simultaneously work on the assignment. This item includes all costs of providing and maintaining the necessary drill rig, plus all equipment, tools, supplies, and personnel, stipulated in this Contract and/or required to perform the work, and for costs of moving to and from the job site, including loading, unloading, trucking and transportation. The mobilization also includes costs of providing and maintaining all signs, cones, and barricades required to complete the work, except those traffic control devices for which there is a separate pay item. An exchange of drill rigs during the course of the work made for the CONTRACTOR's convenience is not considered a separate mobilization for pay purposes.

STATEWIDE ON-CALL GEOTECHNICAL SUBSURFACE EXPLORATION SERVICES 42451

In the event the CONTRACTOR submits monthly invoices for work performed on partially completed projects, the General Mobilization will be prorated as follows. Fifty percent (50%) of the contract price for this item will be payable to the CONTRACTOR at the time of first compensation, after substantially all equipment and materials necessary for performing the work are on site and ready for use. The remaining fifty percent (50%) will be payable to the CONTRACTOR at the time of final payment for all work performed on the project, after removal of all equipment and materials from the site and after site restoration to the satisfaction of the ENGINEER.

General Mobilization and Demobilization for assignments involving only the decommissioning of monitoring wells will be paid at one-half the contract unit price.

ITEM NO. 01.2 Flotation Equipment Mobilization And Demobilization

For general mobilization and demobilization of a raft and other flotation equipment required to do borings over water, payment will be made at the contract unit price for each assigned project site where flotation equipment is required, as determined by the ENGINEER. The single payment under this item will cover all costs incurred by the CONTRACTOR in providing flotation and other equipment needed to mobilize to and demobilize from a water site, to include all associated equipment rental costs and/or costs for subcontracting this portion of the work. This item includes all costs incurred in providing and maintaining the raft and other flotation equipment, a service boat, navigational warning devices, equipment, tools, supplies, and personnel, stipulated in this Contract and/or required to perform the work over water, and for costs of moving the required equipment and CONTRACTOR's personnel to and from the job site, including loading, unloading, trucking and transportation. Equipment provided under this item shall include a boat to provide access to and from the flotation equipment from shore for both CONTRACTOR and ENGINEER. This item covers work on inland water bodies, which includes tidal streams and rivers but not ocean marine work, within New Hampshire. Drilling quantities over water will be paid under other items in the contract including Barge Rig Boring, Item 02.5. This item will be paid in addition to the General Mobilization, Item No. 01.1.

ITEM NO. 01.3 Utility and DIG-SAFE Clearance

For performing utility clearance of a worksite, which shall include all SUBSURFACE EXPLORATION locations within an assignment, payment will be made at the contract unit price for each assignment. If the assignment scope of work is modified by the ENGINEER, and this change requires additional utility clearance, then an addition payment will be made at the contract unit price. For DIG-SAFE renewals, follow up utility clearances or re-marking of previously cleared worksites, payment will not be made again. This item will only be paid if the ENGINEER assigns the utility clearing task to the CONTRACTOR. The CONTRACTOR may perform their own utility clearance; however, the CONTRACTOR will not be compensated if the DEPARTMENT performs this task. If authorized by the ENGINEER, the services of a utility locating company shall be reimbursed as a direct expense.

ITEM NO. 02 Per-Boring Mobilization Set-Up

ITEM NO. 02.1 Cathead Boring

For each boring performed with a cathead or other portable equipment as determined in advance by the ENGINEER, one mobilization set-up charge will be paid at the contract unit price per boring for each boring performed. This item will cover all costs of moving the drill rig, signs, cones, barricades, equipment, tools, supplies and personnel stipulated between borings on the assigned project work site, and, if necessary, will include loading, unloading, trucking and transportation between borings.

ITEM NO. 02.2 Truck Rig Boring

For each truck rig boring, as determined in advance by the ENGINEER, one mobilization set-up charge will be paid at the contract unit price per boring for each boring performed. This item will cover all costs of moving the drill rig, signs, cones, barricades, equipment, tools, supplies and personnel stipulated between borings on the assigned project work site, and, if necessary, will include loading, unloading, trucking and transportation between borings.

STATEWIDE ON-CALL GEOTECHNICAL SUBSURFACE EXPLORATION SERVICES 42451

ITEM NO. 02.3 Track Rig Boring

For each track rig boring, as determined in advance by the ENGINEER, one mobilization set-up charge will be paid at the contract unit price per boring for each boring performed. This item will cover all costs of moving the drill rig, signs, cones, barricades, equipment, tools, supplies and personnel stipulated between borings on the assigned project work site, and, if necessary, will include loading, unloading, trucking and transportation between borings.

ITEM NO. 02.4 Skid Rig Boring

For each skid rig boring, as determined in advance by the ENGINEER, one mobilization set-up charge will be paid at the contract unit price per boring for each boring performed. This item will cover all costs of moving the drill rig, signs, cones, barricades, equipment, tools, supplies and personnel stipulated between borings on the assigned project work site, and, if necessary, will include loading, unloading, trucking and transportation between borings.

ITEM NO. 02.5 Barge Rig Boring

For each water boring, as determined in advance by the ENGINEER, requiring the use of a raft or other flotation equipment, one mobilization set-up charge will be paid at the contract unit price per boring for each boring performed. This item will cover all costs of moving the drill rig, raft and/or other flotation equipment, service boat, signs, cones, barricades, navigational warning devices, equipment, tools, supplies, and personnel stipulated between borings on the assigned project work site, and, if necessary, will include loading, unloading, trucking and transportation for moves between borings.

ITEM NO. 03 Drive Casing, 3-inch And 4-inch Diameters

ITEM NO. 03.1 Soil Boring, 3-inch Diameter Drive Casing On Land

For 3-inch minimum diameter soil borings on land, including split-barrel samples taken at standard 5foot sampling intervals, sample jars and delivery to the DEPARTMENT, payment will be made at the contract unit price per foot for the actual linear feet of boring completed and accepted within each 50-foot payment depth increment, measured to the nearest 0.1 foot from the ground surface or bottom of the water body to the depth of boring in soil.

ITEM NO. 03.11Soil Boring, 3-Inch Diameter Drive Casing on Land, depth 0 to 50 ftITEM NO. 03.12Soil Boring, 3-Inch Diameter Drive Casing on Land, depth 50 to 100 ftITEM NO. 03.13Soil Boring, 3-Inch Diameter Drive Casing on Land, depth 100 to 150 ftITEM NO. 03.14Soil Boring, 3-Inch Diameter Drive Casing on Land, depth 100 to 150 ftSoil Boring, 3-Inch Diameter Drive Casing on Land, depth 100 to 150 ftITEM NO. 03.14

ITEM NO. 03.2 Soil Boring, 3-inch Diameter Drive Casing On Water

For 3-inch minimum diameter soil borings drilled from flotation equipment on water, including splitbarrel samples taken at standard 5-foot sampling intervals, sample jars and delivery to the DEPARTMENT, payment will be made at the contract unit price per foot for the actual linear feet of boring completed and accepted within each 50-foot payment depth increment, measured to the nearest 0.1 foot from the bottom of the water body to the depth of the boring in soil.

ITEM NO. 03.21Soil Boring, 3-Inch Diameter Drive Casing on Water, depth 0 to 50 ftITEM NO. 03.22Soil Boring, 3-Inch Diameter Drive Casing on Water, depth 50 to 100 ftITEM NO. 03.23Soil Boring, 3-Inch Diameter Drive Casing on Water, depth 100 to 150 ftITEM NO. 03.24Soil Boring, 3-Inch Diameter Drive Casing on Water, depth 100 to 150 ftSoil Boring, 3-Inch Diameter Drive Casing on Water, depth 100 to 150 ftITEM NO. 03.24

ITEM NO. 03.3 Soil Boring, 4-inch Diameter Drive Casing On Land

For 4-inch minimum diameter soil borings on land, including split-barrel samples taken at standard 5foot sampling intervals, sample jars and delivery to the DEPARTMENT, payment will be made at the contract unit price per foot for the actual linear feet of boring approved in advance by the ENGINEER and completed and accepted within each 50-foot payment depth increment, measured to the nearest 0.1 foot from the ground surface or the bottom of the water body to the depth of the boring in soil.

STATEWIDE ON-CALL GEOTECHNICAL SUBSURFACE EXPLORATION SERVICES 42451

ITEM NO. 03.31Soil Boring, 4-Inch Diameter Drive Casing on Land, depth 0 to 50 ftITEM NO. 03.32Soil Boring, 4-Inch Diameter Drive Casing on Land, depth 50 to 100 ftITEM NO. 03.33Soil Boring, 4-Inch Diameter Drive Casing on Land, depth 100 to 150 ftITEM NO. 03.34Soil Boring, 4-Inch Diameter Drive Casing on Land, depth 100 to 150 ftSoil Boring, 4-Inch Diameter Drive Casing on Land, depth 100 to 150 ftITEM NO. 03.34

ITEM NO. 03.4 Soil Boring, 4-inch Diameter Drive Casing On Water

For 4-inch minimum diameter soil borings drilled from flotation equipment on water, including the split-barrel samples taken at standard 5-foot sampling intervals, sample jars and delivery to the DEPARTMENT, payment will be made at the contract unit price per foot for the actual linear feet of boring approved in advance by the ENGINEER and completed and accepted within each 50-foot payment depth increment, measured to the nearest 0.1 foot from the bottom of the water body to the depth of the boring in soil. The water depth above the bottom of the water body will be added to determine the soil boring depth; however, the water depth itself will not be paid.

ITEM NO. 03.41Soil Boring, 4-Inch Diameter Drive Casing on Water, depth 0 to 50 ftITEM NO. 03.42Soil Boring, 4-Inch Diameter Drive Casing on Water, depth 50 to 100 ftITEM NO. 03.43Soil Boring, 4-Inch Diameter Drive Casing on Water, depth 100 to 150 ftITEM NO. 03.44Soil Boring, 4-Inch Diameter Drive Casing on Water, depth 100 to 150 ftITEM NO. 03.44Soil Boring, 4-Inch Diameter Drive Casing on Water, depth 100 to 150 ft

)

ITEM NO. 04 Casing Bit Diamond Wear for Spin Casing

For 3-inch or 4-inch diameter cased soil borings on land or water performed using spin casing with a diamond bit, payment will be made at the contract unit price per foot for the actual linear feet of boring completed and accepted, measured to the nearest 0.1 foot from the ground surface or bottom of the water body to the bottom of the hole. Payment under this pay item will be in addition to the corresponding payment made under ITEM NO. 03 above, for compensation for normal wear of the diamond casing bit.

ITEM NO. 05 Soil Boring, 3-inch or 4-inch Hollow Stem Auger Borings On Land

For 3-inch or 4-inch minimum diameter hollow stem auger soil borings on land, including split-barrel samples taken at standard 5-foot sampling intervals, sample jars and delivery to the DEPARTMENT, payment will be made at the contract unit price per foot for the actual linear feet of boring completed and accepted, measured to the nearest 0.1 foot from the ground surface. Note that auger borings will not be required at depths greater than 50 feet nor on water.

ITEM NO. 06 Additional Split Spoon Samples

For additional split barrel samples taken in excess of the subsidiary rate of one sample per 5 feet of boring depth, including sample jars and delivery to the DEPARTMENT, payment will be made at the contract unit price per sample for each sample in excess of the average of one sample per 5 feet over the full depth of the boring in soil.

ITEM NO. 07 3-inch Piston Samples

For 3-inch undisturbed stationary piston tube samples including the Shelby tube and delivery to the DEPARTMENT, payment will be made at the contract unit price for the actual number of samples taken and accepted.

ITEM NO. 08 Rock Core

ITEM NO. 08.1 ··· Rock Core On Land

For coring bedrock, boulders, or very dense glacial till soils on land with diamond rock coring tools, including the core box and delivery of core samples to the DEPARTMENT, payment will be made at the contract unit price per foot for the actual linear feet of bedrock or boulders cored and accepted, within each 50-foot payment depth increment, measured to the nearest 0.1 foot.

ITEM NO. 08.11	Rock Core on Land, depth 0 to 50 ft
ITEM NO. 08.12	Rock Core on Land, depth 50 to 100 ft
ITEM NO. 08.13	Rock Core on Land, depth 100 to 150 ft
ITEM NO. 08.14	Rock Core on Land, depth over 150 ft

STATEWIDE ON-CALL GEOTECHNICAL SUBSURFACE EXPLORATION SERVICES 42451

ITEM NO. 08.2 Rock Core On Water

For coring bedrock or boulders from flotation equipment on water with rock coring tools, including the core box and delivery of core samples to the DEPARTMENT, payment will be made at the contract unit price per foot for the actual linear feet of bedrock or boulders cored and accepted, within each 50-foot payment depth increment, measured to the nearest 0.1 foot. The water depth above the bottom of the water body will be added to determine the soil boring depth; however, the water depth itself will not be paid.

ITEM NO. 08.21	Rock Core on Water, depth 0 to 50 ft
ITEM NO. 08.22	Rock Core on Water, depth 50 to 100 ft
ITEM NO. 08.23	Rock Core on Water, depth 100 to 150 ft
ITEM NO. 08.24	Rock Core on Water, depth over 150 ft

ITEM NO. 09 Pavement Cores

For pavement core specimens obtained, which includes all asphalt and concrete pavement cored in the pavement structure regardless of thickness at a location, payment will be made at the contract unit price for each pavement core completed and accepted. A drill rig mobilization will also be paid under Item 02 for each pavement core location in addition to this item. Soil and bedrock drilling and sampling below a pavement core will be paid under other items in the contract. Pavement cored or ground by roller bit in performance of a test boring will be paid under other items in the contract.

ITEM NO. 10 Bore Hole Sealing

ITEM NO. 10.1 Bore Hole Sealing, Cased Boring

For sealing cased borings, as directed by the ENGINEER, payment will be made at the contract unit price per foot for the actual linear feet of boring sealed by the CONTRACTOR and accepted by the ENGINEER, measured to the nearest foot. This item includes the cost of providing and maintaining all materials, specialized tools, equipment, and personnel required to perform the work.

ITEM NO. 10.2 Bore Hole Sealing, Auger Boring

For sealing auger borings, as directed by the ENGINEER, payment will be made at the contract unit price per foot for the actual linear feet of boring sealed by the CONTRACTOR and accepted by the ENGINEER, measured to the nearest foot. This item includes the cost of providing and maintaining all materials, specialized tools, equipment, and personnel required to perform the work.

ITEM NO. 11 Observation Wells

ITEM NO. 11.1 Groundwater Level Observation Well with 1-1/2" Diameter Well Pipe For groundwater level observation wells installed in a previously drilled boring, payment will be made at the contract unit price per foot for the actual linear feet of well screen plus riser pipe installed and accepted, measured to the nearest 0.1 foot from the bottom of the installation to the ground surface. Well pipe extending above the ground surface in a riser protective casing will not be included in the measurement for payment, but will be subsidiary to this item. This ITEM includes all materials and labor necessary to construct a well in accordance with paragraph 2.15 of this AGREEMENT, including bottom and top bentonite seals, filter sand, well screen, general backfill, and riser pipe. Filter sand and bentonite clay used, as directed by the ENGINEER, in excess of the amounts specified in paragraph 2.15 and the protective casing or road box (if ordered) are not included in this item and are paid separately. The previously drilled boring will be paid under other items in the AGREEMENT. The cost for completing reports per paragraph 2.15 is subsidiary to this item.

ITEM NO. 11.2 Groundwater Level Observation Well with 2" Diameter Well Pipe

For groundwater level observation wells installed in a previously drilled boring, payment will be made at the contract unit price per foot for the actual linear feet of well screen plus riser pipe installed and accepted, measured to the nearest 0.1 foot from the bottom of the installation to the ground surface. Well pipe extending above the ground surface in a riser protective casing will not be included in the

STATEWIDE ON-CALL GEOTECHNICAL SUBSURFACE EXPLORATION SERVICES 42451

measurement for payment, but will be subsidiary to this item. This ITEM includes all materials and labor necessary to construct a well in accordance with paragraph 2.15 of this AGREEMENT, including bottom and top bentonite seals, filter sand, well screen, general backfill, and riser pipe. Filter sand and bentonite clay used, as directed by the ENGINEER, in excess of the amounts specified in paragraph 2.15 and the protective casing or road box (if ordered) are not included in this item and are paid separately. The previously drilled boring will be paid under other items in the AGREEMENT. The cost for completing reports per paragraph 2.15 is subsidiary to this item.

ITEM NO. 11.3 Bentonite Clay

For commercially prepared bentonite clay chips or pellets used, as directed by the ENGINEER, exceeding the quantity subsidiary to ITEM NO. 11.1 or 11.2, payment will be made at the contract unit price per foot for the actual linear feet of boring backfilled, measured to the nearest foot.

ITEM NO. 11.4 Filter Sand

For commercially washed and bagged filter sand used, as directed by the ENGINEER, exceeding the quantity subsidiary to ITEM NO. 11.1 or 11.2, payment will be made at the contract unit price per foot for the actual linear feet of boring backfilled, measured to the nearest foot.

ITEM NO. 11.5 Protective Riser Casing

For protective riser casing installed for a groundwater level observation (monitoring) wells, payment will be made at the contract unit price per each for the actual number of protective casings installed and accepted, to include all materials required in construction of the item. The locking cover, padlock, and key(s) shall be subsidiary to the Protective Casing item.

ITEM NO. 11.6 Flush Mounted Road Box

For a flush mounted road box used for protection of a groundwater level observation (monitoring) well, payment will be made at the contract unit price per each for the number of road boxes installed and accepted, to include all materials required in construction of the item.

ITEM NO. 11.7 Decommission Groundwater Level Observation (Monitoring) Well

For removing well components; patching pavement with cold patch or concrete; or raking, loaming and seeding, as directed to obliterate a well location, payment will be made at the contract unit price per each for the number of wells decommissioned. This item includes the cost of providing all materials, equipment, and personnel required to perform the work. The cost for completing reports per paragraph 2.16 is subsidiary to this item. However, payment will also be made under Item 10.1 for the depth of well pipe sealed.

ITEM NO. 12 Traffic Control

ITEM NO. 12.1 Traffic Control Flaggers

For traffic control services of flaggers, payment will be made at the contract unit price per hour per flagger for the actual time such traffic control services are authorized and provided, measured to the nearest hour. Payment for services of uniformed officers, when required by the ENGINEER, will be paid directly by the DEPARTMENT.

ITEM NO. 12.2 Traffic Control for High Volume Lane Closure

For traffic control services required to close a lane of the traveled way of a State or Federal highway or to close the shoulder of an Interstate highway, payment will be made at the contract unit price per hour for the actual working time such traffic control services are authorized and

provided, measured to the nearest hour. There will be a minimum pay quantity of four hours for each day during which a lane closure is required. The time required to set up and to remove the traffic control devices, up to two hours per day, is included in the time to be measured. This item shall include the cost of providing, setting up, and removing all traffic control devices required for a lane closure meeting the requirements of the MUTCD.

STATEWIDE ON-CALL GEOTECHNICAL SUBSURFACE EXPLORATION SERVICES 42451

This item covers the additional costs associated with lane closures on high volume roadways (i.e., major State highways, Interstate highways).

ITEM NO. 13 Standby Time

For standby time ordered by the ENGINEER, payment will be made at the unit price stated in the AGREEMENT for the actual time work is suspended during a regular 8-hour work day, measured to the nearest half-hour. This item includes all compensation to the CONTRACTOR for time not worked, including, but not limited to: labor, equipment use, overhead, and profit. Standby time will be paid for that portion of the regular 8-hour workday that the CONTRACTOR is on site and ready to work while work is suspended for a special situation. No payment will be made for standby time unless the CONTRACTOR is on site and prepared to work during the ordered suspension of work, or if the special situation does not exist as determined by the ENGINEER. Work suspended due to CONTRACTOR operations, for breakdowns, for travel, or for weather-related delays does not constitute a special situation for payment of standby time.

ITEM NO. 14 Direct Costs

Direct Costs is not a bid item. This item will be used to estimate and account for costs that may be incurred in performance of the SUBSURFACE EXPLORATIONS. Direct costs include such things as police detail costs, permit fees, hired utility clearance services, subcontracted drilling services, or other miscellaneous costs that are pre-authorized by the ENGINEER and are not covered under other bid items in the AGREEMENT. Payment will be made at the actual dollar cost to the CONTRACTOR. No mark up will be allowed for anything reimbursed under this item. A copy of any invoice or bill for the cost incurred or the services provided shall be provided to the ENGINEER before reimbursement will be made.

EXHIBIT C

STATEWIDE ON-CALL GEOTECHNICAL SUBSURFACE EXPLORATION SERVICES 42451

EXHIBIT C: SPECIAL PROVISIONS

22. STANDARD SPECIFICATIONS

This contract shall be administered in general accordance with the applicable provisions of <u>Division 100</u> of the 2016 State of New Hampshire Department of Transportation Standard Specifications for Road and Bridge Construction as modified or amended in the AGREEMENT. In particular, but not limited to:

Section 101 – Definitions and Terms

Section 102 – Bidding Requirements and Conditions

Section 103 – Award and Execution of Contract

Section 104 - Scope of Work

Section 105 - Control of the Work

Section 106 – Control of Material

Section 107 – Legal Relations and Responsibility to Public

Section 108 – Prosecution and Progress

Section 109 - Measurement and Payment

Standard Specifications Internet link:

1

http://www.nh.gov/dot/org/projectdevelopment/highwaydesign/specifications/index.htm

22.1 Proposal Guaranty

The requirements of Section 102.09 of the Standard Specifications are waived, and no proposal guaranty is required for consideration of a bid proposal.

22.2 Contract Bond

The requirements of Section 103.05 of the Standard Specifications are waived, and no contract bond is required for this Agreement.

22.3 Insurance

The insurance requirements in Section 107.11 of the Standard Specifications are waived except where required by law and for the requirement for comprehensive general liability and comprehensive automobile liability insurance. The CONTRACTOR shall obtain comprehensive automobile liability insurance covering all motor vehicles, including owned, hired, borrowed, and non-owned vehicles, for all claims of bodily injury, death, or property damage, in policy amount of not less than \$500,000 combined

22.4 Subletting of Contract

In addition to the requirements of Section 108.01 of the Standard Specifications, all subcontracts shall be in writing. A copy of each subcontract shall be submitted for the DEPARTMENT's records.

22.5 Contract Completion Date

No new tasks may be assigned after the contract completion date in 1.7; however, the CONTRACTOR shall complete any assigned tasks begun prior to the completion date, but not yet completed, in accordance with the terms and compensation specified in this AGREEMENT. This shall be subject to the written mutual agreement of both parties, which shall include a revised date of completion to allow completion of any previously assigned tasks.

22.6 Failure To Complete On Time

Replace the Liquidated Damages schedule in Section 108.09 of the Standard Specifications with the following: Should the CONTRACTOR fail to complete the work on a specific assignment in accordance with the AGREEMENT within the time limit specified for the assignment, the CONTRACTOR shall pay to the STATE the **sum of one-hundred dollars (\$250.00)** for every calendar day that the time consumed in the said completion exceeds the completion date specified in the Notice to Proceed letter. This sum shall not be considered a penalty, but as liquidated damages that the DEPARTMENT will suffer by reason of said delay. The DEPARTMENT shall deduct and may retain the amount of such liquidated damages out of moneys that may be due or become due to the CONTRACTOR under this AGREEMENT



Corporate Resolution

I, Sheryll A Dupont, hereby certify that I am duly elected Clerk/Secretary of New Hampshire Boring Inc., dba New England Boring Contractors. I hereby certify the following is a true copy of a vote taken at a meeting of the Board of Directors/, duly called and held on February 12, 2019 at which a quorum of the Directors was present and voting.

VOTED: That, Thomas A Garside, President is duly authorized to enter into Statewide On-Call 42451 Geotechnical Subsurface Exploration Services on behalf of New Hampshire Boring Inc, dba New England Boring Contractors with the State of New Hampshire and any of its agencies or departments, and further is authorized to execute any documents which may in his judgement be desirable or necessary to effect the purpose of this vote.

I hereby certify that said vote has not been amended or repealed and remains in full force and effect as of the date of the contract to which this certificate is attached. I further certify that it is understood that the State of New Hampshire will rely on this certificate as evidence that the person listed above currently occupy the position indicated and that they have full authority to bind the corporation. To the extent that there are any limits on the authority of any listed individual to bind the corporation in contracts with the State of New Hampshire, all such limitations are expressly stated herein.

DATED: May 21, 2019

State of New Hampshire Department of State

CERTIFICATE

I, William M. Gardner, Secretary of State of the State of New Hampshire, do hereby certify that NEW HAMPSHIRE BORING, INC. is a New Hampshire Profit Corporation registered to transact business in New Hampshire on December 13, 1988. I further certify that all fees and documents required by the Secretary of State's office have been received and is in good standing as far as this office is concerned.

Business ID: 136975 Certificate Number: 0004518430



IN TESTIMONY WHEREOF,

I hereto set my hand and cause to be affixed the Seal of the State of New Hampshire, this 21st day of May A.D. 2019.

William M. Gardner Secretary of State



TIEICATE OF LIADILITY INCLIDANCE

DATE (MM/DO/YYYY)

Г

THIS CERTIFICATE IS SUBJED AS A MATTER OF INFORMATION ONLY AND CONTENTS NO RIGHTS UPON THE CERTIFICATE CONSIGNED AND ALL AND A	CERTIFICATE OF LIABILITY INSURANCE				5/	21/2019				
The terms and conditions of the policy, certain policies may require an andorement. A statement on this certificate does not confer rights to the certificate does not confer rights to the certificate holds and conserved and the certificate does not confer rights to confer rights does not confer rights right does not confer rights right does		CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED								
THE BORLET ACENET TRC. Image: Construction Amenus Image: Construction Amenus Image: Construction Amenus P.O. Box 511 Somestication Amenus Image: Construction Amenus Image: Construction Amenus P.O. Box 511 Mill 03302-0511 Mill 03302-0511 Mill 03302-0511 Mew Banghafts Boring Contractors Image: Construction Amenus Image: Construction Amenus Image: Construction Amenus New Banghafts Boring Contractors Image: Construction Amenus Image: Construction Amenus Image: Construction Amenus New Banghafts Boring Contractors Image: Construction Amenus Image: Construction Amenus Image: Construction Amenus Obscry Mill 03302-000 Mill 03302-000 Mill 0302-000 Image: Construction Amenus Image: Construction Amenus Output: Construction Amenus Mill 0302-000 Mill 0302-000 Mill 0302-000 Image: Construction Amenus Output: Construction Amenus Mill 0302-000 Mill 0302-000 Mill 0302-000 Image: Construction Amenus Construction Amenus Mill 0302-000 Mill 0302-000 Mill 0302-000 Image: Construction Amenus Construction Amenus Mill 0302-000 Mill 0302-000 Mill 0302-000 Image: Construction Amenus Construction Amenus Construction Amenus Mill 030-000 Mill 0300-000 Construc	1 1	the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the								
THE BORLET ACENET TRC. Image: Construction Amenus Image: Construction Amenus Image: Construction Amenus P.O. Box 511 Somestication Amenus Image: Construction Amenus Image: Construction Amenus P.O. Box 511 Mill 03302-0511 Mill 03302-0511 Mill 03302-0511 Mew Banghafts Boring Contractors Image: Construction Amenus Image: Construction Amenus Image: Construction Amenus New Banghafts Boring Contractors Image: Construction Amenus Image: Construction Amenus Image: Construction Amenus New Banghafts Boring Contractors Image: Construction Amenus Image: Construction Amenus Image: Construction Amenus Obscry Mill 03302-000 Mill 03302-000 Mill 0302-000 Image: Construction Amenus Image: Construction Amenus Output: Construction Amenus Mill 0302-000 Mill 0302-000 Mill 0302-000 Image: Construction Amenus Output: Construction Amenus Mill 0302-000 Mill 0302-000 Mill 0302-000 Image: Construction Amenus Construction Amenus Mill 0302-000 Mill 0302-000 Mill 0302-000 Image: Construction Amenus Construction Amenus Mill 0302-000 Mill 0302-000 Mill 0302-000 Image: Construction Amenus Construction Amenus Construction Amenus Mill 030-000 Mill 0300-000 Construc	PRO	DUCER			CONTA	CT Christi	ine H. Hol	man, CPCU, CIC		
45 Constitution Avenue For Desciption Status of Desciption Net Concerned 90 Constitution Avenue NN 0302-0511 Net Respective Rule Indexed System Net Concerned New Heapshire Boring Contractors Numero Indexed System Net Respective Rule Indexed System Net Concerned New Heapshire Boring Contractors Numero Indexed System Net Concerned Numero Indexed System New Heapshire Boring Contractors Numero Indexed System Numero Indexed System Numero Indexed System COVERAGES NII 0303 Numero Indexed System Reveal System Reveal System OverradeS COVERAGES CERTIFICATE NUMBER: 19-19 all lines Reveal System Reveal System NII Concerned System CERTIFICATE NUMBER: 19-19 all lines Reveal System Reveal System Reveal System NII Concerned System CERTIFICATE NUMBER: 19-19 all lines Reveal System Reveal System Reveal System NII Concerned System CERTIFICATE NUMBER: 19-10 all lines Reveal System System System System NII Concerned System CERTIFICATE NUMBER: 19-10 all lines Reveal System System System System NII Concerned System System Reveal System System System System Reveal System Concerned System </td <td>TR</td> <td>E ROWLEY AGENCY INC.</td> <td></td> <td></td> <td>DUCAUE</td> <td></td> <td>224-2562</td> <td>FAX (A/C, No)</td> <td>(603) 224</td> <td>-8012</td>	TR	E ROWLEY AGENCY INC.			DUCAUE		224-2562	FAX (A/C, No)	(603) 224	-8012
Concord NN 03302-0511 Manual Executive Right Indemnity Dots Maxed Maxed Indemnity Maxed Indemnity Maxed Indemnity Maxed Indemnity Maxed Indemnity Maxed Indemnity Maxed Indemnity Maxed Indemnity Maxed Indemnity New Hamphite Boring Contractors Maxed Indemnity Maxed Indemnity Maxed Indemnity Maxed Indemnity New England Boring Contractors Maxed Indemnity NN 03038 Maxed Indemnity Maxed Indemnity OverRAGES CERTIFICATE NUMBER: 18-19 Maxed Indemnity Maxed Indemnity Maxed Indemnity This for Centry That The FOLICIES OF MAXED ALL PROVIDED by The FOLICES Description Founder Indemnity Maxed Indemnity Maxed Indemnity Maxed Indemnity This for Centry That The FOLICIES OF MAXED ALL PROVIDED by The FOLICES Description Indemnity Maxed Indemnity Maxed Indemnity Maxed Indemnity This for Centry That The FOLICIES OF MAXED ALL PROVIDED By The FOLICES Description Indemnity Maxed Indemnity Maxed Indemnity Maxed Indemnity This for Centry That The FOLICES OF MAXED ALL PROVIDED By The FOLICES Description Indemnity Maxed Indemnity Maxed Indemnity Maxed Indemnity <t< td=""><td>45</td><td>Constitution Avenue</td><td></td><td></td><td>E-MAIL ADORE</td><td>ss: cholmar</td><td>nêrowleyag</td><td>ency.com</td><td></td><td></td></t<>	45	Constitution Avenue			E-MAIL ADORE	ss: cholmar	nêrowleyag	ency.com		
New Haupphire Boring Inc., dba Hew Haupphire Boring Contractors New Haupphire Boring Contractors New Haupphire Boring Contractors New Haupphire Boring Contractors No Bori 155 Derry NH 03038 COVERAGES CONTRACT INSTITUTION CONTRACT INS	₽.4	D. Box 511				IN	SURER(S) AFFO			
New Hampshire Boring Inc., dba New Hampshire Boring Inc., dba New Regland Boring Contractors New Regland Boring Contractors COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES COVERAGES C	_		302-0	511	INSURE	RA: Execut	uve Risk	Indemnity		Ĺ
New England Boring Contractors Implementation Implementation <thimplementation< th=""> Implementation</thimplementation<>					INSURE	RB:Federa	l Insuran	ce Co.		
D Box 165 District Travelere Travelere Travelere Company Hgumes: Chubb Pattonal, Insurance Company Hgumes: Chubb Pattonal, Insurance Hgumes: Chubb Pattonal, Insures Hgumes: Chubb Pattonal, Insurance Hgumes: Chubb Pattonal, Insur										
Data yr NH 00038 Data yr Dialawer (Chubb Pat Linal Linurance (Output) COVERAGES CERTIFICATE NUMBER: 10-12 all linae REVEX.000 NUMBER: CERTIFICATE NUMBER: 10-12 all linae REVEX.000 NUMBER: REVEX.000 NUMPER: REVEX.000 NUMPER: REVEX.						<u> </u>				··
COVERAGES CENTRICATE NUMBER: 16-19 11 Inductor Control Previous			03R							
This To CERTEY THAT THE POLICIES OF MSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE MSURED MAEDER TO ALL THE TENDO DICATE. DATURTISANDING MAY REGURALMENT TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO VALID. THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN. THE MSURANCE AFFORDED BY THE POLICIES DESCRIBED HEBLINS SUBJECT TO ALL THE TERMS. EXCLUSIONS AND CONTINUES OF SUCH POLICIES. LINES BIOWN ANY WAVE DEEM READUCES DY FAID COLUMBS. INDICATE. DATURE CONTINUES OF SUCH POLICIES DESCRIBED MEDINES SUBJECT TO ALL THE TERMS. EXCLUSIONS AND CONTINUES OF SUCH POLICIES. DESCRIBED MEDINES SUBJECT TO ALL THE TERMS. EXCLUSIONS AND CONTINUES OF SUCH POLICIES. DESCRIBED MEDINES SUBJECT TO ALL THE TERMS. EXCLUSIONS AND CONTINUES OF SUCH POLICIES DESCRIBED MEDINES. INTEG OF REGRAMICE DOCUMENTERS. INTEG OF REGRAMMENT POLICY PRIMATING OF SUBJECT TO ALL THE TERMS. EXCLUSIONS AND CONTINUES OF SUBJECT TO ALL THE TERMS. EXCLUSIN	<u> </u>			ATE NUMBER 18-19 all 1		RF: Chubb	NATIONAL			l
CERTIFICATE MAY BEISUED OR MAY PERTAIN, THE INSURANCE AFFORCED BY THE POLICIS DESCRIBED HELRIN SUBJECT TO ALL THE TERMS. EXECULISION AND CONCINIONS OF SUCH POLICIES. LINITS SUMMER MUSCIFUE X COMPARAME ACC DURING X COMPARAME MUSCIFUE X COMPARAME ACC DURING X COMPARAME MUSCIFUE X CONTACT MUSCIFUE X MUSCIFUE MUSCIFUE <	_				_	ED TO THE IN	SURED NAME		PERIOD	,1
X Constructul celeval LUBRITY All states other Dan CT: slagering Slagering Local coccumence is 1,000,000 X COLVESTIGATE Slagering Slagering Slagering Slagering X Contractual	¢	ERTIFICATE MAY BE ISSUED OR MAY PER	TAIN, T	HE INSURANCE AFFORDED BY TH	HE POL	ICIES DESCR	IBED HEREIN			
X Constructul celeval LUBRITY All states other Dan CT: slagering Slagering Local coccumence is 1,000,000 X COLVESTIGATE Slagering Slagering Slagering Slagering X Contractual	INSR LTR	TYPE OF INSURANCE	ADOL S	OBR POLICY NUMBER		POLICY EFF	POLICY EXP	บ่มก	rs	
A		X COMMERCIAL GENERAL LIABILITY		All states other than CT:	:			EACH OCCURRENCE	\$	1,000,000
x contractual si309773 x contractual si309773 x polory Erg PRC POLOY (E) PRC (C) (E) PRC (C) (E) PRC (C) (E) PRC (C) (E) (E) (C) (C) (E) PRC (C) (E) (E) (C) (C) (E) (E) (C) (C) (E) (E) (C) (C) (E) (E) (E) (E) (E) (E) (E) (E) (E) (E	λ			54309774-00		09/01/2018	09/01/2019	DAMAGE TO RENTED PREMISES (Ee'occurrence)	\$	100,000
Geru Addresser Lum Applies PER:		X XCU Included		CT: Carrier: F				MED EXP (Any one person)	\$	10,000
POLICY KC MC0 CL MC000015-COMPORADC 1 2,000,000 OTHER: AUTOGORDE LABRITY 1(8)54309772 09/01/2018 09/01/2018 09/01/2018 09/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018			•	54309773				PERSONAL & ADV INJURY	\$	
ATTOMUSE Content Image: Content of the second of the seco									Ť	
AUTOROBALE LABBLITY I1B) 54309772 09/01/2018 09/01/2018 09/01/2018 09/01/2018 09/01/2018 09/01/2018 09/01/2018 09/01/2018 09/01/2018 09/01/2018 09/01/2018 09/01/2018 09/01/2018 09/01/2018 09/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 00/01/2018 0						•		PRODUCTS - COMP/OP AGG		2,000,000
a x ANY AUTO ALLOWNED X x SCHEDULED X Control Contro Control Contro			╞─┼	(18) 54309772		09/01/2018	09/01/2018			1 000 000
a ALL OWNED X ALTOS XALTOS X ALTOS SCHEDULED XATOS x HRED AUTOS X ALTOS X ALTOS X ALTOS BOOLY INJURY (P# acdown) 5 y X UNDRELLA LAS X OCCUR REXCESS LAS X OCCUR CLAUS-MADE 5 y X UNDRELLA LAS X OCCUR REXCESS LAS X OCCUR CLAUS-MADE 5 y X UNDRELLA LAS X OCCUR REXCESS LAS X OCCUR CLAUS-MADE 5 y X UNDRELLA LAS X OCCUR REXCESS LAS X OCCUR CLAUS-MADE 5 y X UNDRELLA LAS X OCCUR REXCENSIONATICEREVENCE (N OR PERSCENTS CLAUSED 000-1/2018 09/01/2018 09/01/2018 09/01/2018 X STATUTE 5 000.000 MORENS CONFERS LUBBLITY N/M PROPRESENTION OF OFERATIONS SUCCOTON INSTRUCTION OF OFERATIONS LOCATIONS / VEHICLES (LOCOTON N/M PERSCENTION OF OFERATIONS / VEHICLES (LOCOTON N/M PERSCENTION OF OFERATIONS / VEHICLES (LOCOTO N/M / VEHICLES (LOCOTON N/M / VEHICLES (LOCOTO N/M / VEHICLES (LOCOTON N/M / VEHICLES (LOCOTO N/M / VEHI				(10/54509/72		0070172018	09/01/2019	•		1,000,000
X HREDAUTOS X NON-OWNED S Y LINBRELLALUAB X OCCUR S Y X UNBRELLALUAB X OCCUR S Y X UNBRELLALUAB X OCCUR S DED X UNBRELLALUAB X OCCUR S DED X UNBRELLALUAB X OCCUR S DED X UNBRELLALUAB X OCCUR S WORKES CONFERNATION 3 10,000 OS-4309775 OP/01/2018 OP/01/2018 Y STATUTE EL EL ACCIDENT 1,000,000 HIMODERFORMATINEPERSEUTIVE Y/N N/A N/A <td>4</td> <td>ALL OWNED SCHEDULED</td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td>~ _ · · · · · · · · · · · · · · · · · ·</td> <td><u> </u></td> <td>·</td>	4	ALL OWNED SCHEDULED					•	~ _ · · · · · · · · · · · · · · · · · ·	<u> </u>	·
F X UMBRELLA LUAB X OCCUR 5 F X UMBRELLA LUAB X OCCUR 5 PECESSILAB CLAIMS-ANDE CLAIMS-ANDE CUP-71H84162-18-HT 09/01/2018 09/01/2019 EACH OCCURRENCE 5 5,000,000 MORE BLACKTORES LUBLITY AND EMPLOYPEST LUBLITY Y/N 31: HE, HA, HE, CT, HT, 09/01/2018 09/01/2018 09/01/2018 09/01/2019 X PER EL CACH ACCUDENT 5 MOR DEM CONSTREMENT EVENUTY Y/N 31: HE, HA, HE, CT, HT, 09/01/2018 09/01/2018 09/01/2019 EL CACH ACCUDENT 5 1,000,000 CONTRACTORES UNDER UBLITY N/A X/N, RL, VT, PA UBLITY EL CACH ACCUDENT 5 1,000,000 C Pollution incl Poll Legal EHR0002656-01 - DED: \$10,000 09/01/2018 09/01/2018 09/01/2019 Uma States of Common Age 3.220,837 DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACODD 101, Additional Remarks Schedule, may be disched if more space is required 09/01/2018 09/01/2018 09/01/2018 09/01/2018 09/01/2018 09/01/2018 09/01/2018 09/01/2018 09/01/2018 09/	i	WON-OWNED						PROPERTY DAMAGE	\$	•
EXCESS LAB CLANS-MOCE 1 3,000,000 DED X RETENTION S 10,000 ACGREGATE 1 3,000,000 WORKERS COMPERSATION 10,000 005-4309775 09/01/2018 09/01/2018 09/01/2018 X EX EX<									5	
DED X REFERENCE Display DED X REFERENCE 10,000 WORKERS COMPERSING 30,000 005-4309775 09/01/2018 09/01/2018 X STATUTE ST	F	X UMBRELLA LIAB X OCCUR		ZUP-71N84162-18-NF	T	09/01/2018	09/01/2019	EACH OCCURRENCE	\$	5,000,000
Workers Comercisance UN 005-4309775 05-4309775 05/01/2018 09/01/2018 09/01/2018 Stature ER AND EMPORESTRATEDEVENCUTVE N N/A N/A N/A N/A Stature ER 1,000,000 B Mindatory in Min N/A N/A N/A N/A N/A Stature Sta		EXCESS LIA® CLAIMS-MADE						AGGREGATE	\$	5,000,000
B Markatory Proprestrompermembers/Descruper V/N N/A 3A: HE, NA, NE, CT, NT, NJ, RI, VT, PA ELEACH ACCIDENT \$1,000,000 C OFFICERABLER ECCUDED? N/A N/A N, RE, CT, NT, NJ, RI, VT, PA ELEACH ACCIDENT \$1,000,000 C Pollution incl Poll Legal ENFORCESTOR INSPECTOR Provide Name ENFORCESS-01 - DED: \$10,000 09/01/2018 09/01/2019 PEC Calm/Arm Acg \$224/ \$24 D Contractors Equipment INSPACE ENFORCESS-01 - DED: \$10,000 09/01/2018 09/01/2019 PEC Calm/Arm Acg \$224/ \$24 D Contractors Equipment INSPACE ENFORCESS-01 - DED: \$10,000 09/01/2018 09/01/2019 Um4-32500 ded 3,220,837 DESCRIPTION OF OPERATIONS / UCATIONS / VEHICLES (ACORD 101, Additional Ramarka Schedule, may be attached if more space is required) Imd - State of a call Agreement 42451, Geotechnical Exploration Services, Account 5 D4-096-096-096-096-963515-3054. SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. 7 Hazen Drive PO Box 483 Concord, NH 03302 AUTHORIZED REPRESENTATIVE C Holman, CPCU, CIC/C AUthor HUBS Cancellog									\$	
B N/A 3A: YB, NA, NE, CT, NT, NJ, RJ, VT, PA EL EACH ACCIDENT \$ 1,000,000 B Immadatory in MH, MY, Maradatory in MH, MY, MARAMAN, ME, CT, NT, NJ, RI, VT, PA EL EACH ACCIDENT \$ 1,000,000 C Pollution incl Poll Legal UEL 6 B Applies 09/01/2018 09/01/2019 Per Claim/An Agg \$ 28/ \$ 20 \$ 837 D Contractors Equipment INS994229 09/01/2018 09/01/2019 Per Claim/An Agg \$ 28/ \$ 20 \$ 837 DESCRIPTION OF OPERATIONS / LOCATONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached If more space is required) Project: Statewide On-Call Agreement 42451, Geotechnical Exploration Services, Accounté Def Call Tripe CANCELLATION Should Dany OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. Cencord, NH 03302 Authorized Representative Authorized Representative		AND END OVERS! LIADILITY				09/01/2018	09/01/2019	× STATUTE ER		
B Windtory in NHY, My, My, My, My, My, My, My, My, My, My		ANY PROPRIETOR/PARTNER/EXECUTIVE	NIA					E.L. EACH ACCIDENT	\$	1,000,000
C Pollution incl Poll Legal ENP0002669-01 - DED: \$10,000 09/01/2018 09/01/2019 Pw ClaimArm Agg \$214/ \$214 C Contractors Equipment IN8994229 09/01/2018 09/01/2019 Umit - 51200 ded 3,220,837 DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be statched if more space is required) Project: Statewide On-Call Agreement 42451, Geotechnical Exploration Services, Account Determine CANCELLATION CERTIFICATE HOLDER CANCELLATION State of New Hampshire Should Any OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE DOT 7 Hazen Drive Should Any OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE PO Box 483 Concord, NH 03302 Authorized Representative Cholman, CPCU, CIC/C Alubitic Holde And	-	If yes, describe under							5	1,000,000
D Contractors Equipment IN8994229 09/01/2018 09/01/2019 Lm4-12500 ded 3,220,837 DESCRIPTION OF OPERATIONS / UCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be statched if more space is required) Project: Statewide On-Call Agreement 42451, Geotechnical Exploration Services, Accounts D4-096-096-963515-3054. CANCELLATION State of New Hampshire SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE DOT 7 7 Hazen Drive PO Box 483 Concord, NH 03302 Choiman, CPCU, CIC/C Clustui Hdds Gm4	_	DESCRIPTION OF OPERATIONS below	-+					E.L. DISEASE - POLICY LIMIT	\$	1,000,000
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 10), Additional Remarks Schedule, may be stached if more space is required) Project: Statewide On-Call Agreement 42451, Geotechnical Exploration Services, Accounté O4-096-096-963515-3054. CERTIFICATE HOLDER CANCELLATION State of New Hampshire DOT 7 Hazen Drive PO Box 483 Concord, NH 03302 C Holman, CPCU, CIC/C Mistur Http://	I	-	1		1			· •		\$2H/ \$2H
Project: Statewide On-Call Agreement 42451, Geotechnical Exploration Services, Accounts D4-096-096-963515-3054. CERTIFICATE HOLDER CANCELLATION State of New Hampshire DOT 7 Hazen Drive PO Box 483 Concord, NH 03302 L L CANCELLATION CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE C Holman, CPCU, CIC/C Click THEME From	0	Contractors Equipment		IH8994229		09/01/2018	09/01/2019	Limit - \$2500 ded		3,220,837
State of New Hampshire SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE DOT THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. ACCORDANCE WITH THE POLICY PROVISIONS. PO Box 483 AUTHORIZED REPRESENTATIVE Concord, NH 03302 C Holman, CPCU, CIC/C Cluster HOB6 max	Proj	Project: Statewide On-Call Agreement 42451, Geotechnical Exploration Services, Account# 04-096-096-963515-3054.								
State of New Hampshire SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE DOT THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. ACCORDANCE WITH THE POLICY PROVISIONS. PO Box 483 AUTHORIZED REPRESENTATIVE Concord, NH 03302 C Holman, CPCU, CIC/C Cluster HOB6 max	CER			······						
State of New Hampshire THE EXPRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN DOT ACCORDANCE WITH THE POLICY PROVISIONS. 7 Hazen Drive AUTHORIZED REPRESENTATIVE PO Box 483 Concord, NH 03302 Concord, NH 03302 C Holman, CPCU, CIC/C				ĭ				· _]
PO Box 463 Concord, NH 03302 Cholman, CPCU, CIC/C Cluster HOBG Char	DOT				THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN					
C Holman, CPCU, CIC/C Llustice HObb Inal		PO Box 483		A	UTHORIZ	ED REPRESENT	ATIVE			
		Concord, NH 03302		с	Holma	an, CPCU,	cic/c	Chistie Ho	6 ma	\sim
		I				© 198	8-2014 ACO			·····

The ACORD name and logo are registered marks of ACORD

.

COMMENTS/REMARKS

Marine Pollution Policy Policy #52-81428 09/01/2018-09/01/2019 Water Quality Insurance Liability Limit: \$1,000,000 Protection & Indemnity Liability (P&I) Acadia Insurance Policy #CHA 5168021-10 09/01/2018-09/01/2019 Liability Limit \$1,000,000 Hull Coverage 1996 Steel Barge - Agreed Valuation \$164,000 Deductible - 2,500