1

TOWN OF HUDSON

Board of Selectmen



12 School Street · Hudson, New Hampshire 03051 · Tel: 603-886-6024 · Fax: 603-598-6481

HUDSON, NH BOARD OF SELECTMEN

February 4, 2020

7:00 p.m.

BOS Meeting Room at Town Hall

Agenda

- 1. CALL TO ORDER
- 2. PLEDGE OF ALLEGIANCE
- 3. <u>ATTENDANCE</u>
- 4. PUBLIC INPUT
- 5. RECOGNITIONS, NOMINATIONS, APPOINTMENTS AND RESIGNATIONS
 None
- 6. CONSENT ITEMS
 - A. <u>Assessing Items</u>
 - 1) Tax Deferral Application: map 145, lot 011, sub 002 12 Sullivan Road
 - 2) Current Use Lien Release: map 223, lot 43-6 9 Copper Hill Road
 - 3) Current Use Lien Release: map 223, lot 43-5 11 Copper Hill Road
 - B. Water/Sewer Items None
 - C. <u>Licenses, Permits and Policies</u>
 - 1) Tag Day Permit Girls Scouts of the Green and White Mountains
 - 2) Raffle Permit Trinity LLC/The Bar

- D. Donations None
- E. Acceptance of Minutes None

F. Calendar

2/5	8:30	Highway Safety Committee - Buxton Meeting Room
2/8	9:00	Town Deliberative Session - Community Center
2/10	7:00	Cable Utility Committee - HCTV
2/10	7:00	Conservation Commission - Buxton Meeting Room
2/12	6:00	Library Trustees - Hills Memorial Library
2/12	7:00	Planning Board - Buxton Meeting Room
2/17		Presidents Day - TOWN HALL CLOSED
2/18	7:00	Municipal Utility Committee - BOS Meeting Room
2/20	3:00	Trustees of the Trust Fund - Buxton Meeting Room
2/20	7:00	Benson Park Committee - HCTV
2/24	7:00	Sustainability Committee - Buxton Meeting Room
2/25	7:00	Board of Selectmen - BOS Meeting Room

7. OLD BUSINESS

A. Votes taken after Nonpublic Session on January 28, 2020

Selectman Coutu made a motion, seconded by Selectman Roy, to deny the Step 2 Grievance filed by the Hudson Public Works Union, AFSCME Local 1801 for the Class Action Hours of Work and Overtime Double Time. Carried 5-0.

Selectman Martin made a motion, seconded by Selectman Coutu, to hire Raymond Abair for the position of Inspector in the Fire Department at the contracted salary of \$24.07 per hour (step 1). This assignment will be a non-exempt position in accordance with the Hudson Support Staff Union, AFSCME Local 1801, as recommended by the Fire Chief. Carried 5-0.

Selectman McGrath made a motion, seconded by Selectman Roy, to accept the offer, in the amount of \$40,000, from 4NH Homes LLC to purchase Tax Deed property located at 151 Robinson Road. Carried 5-0.

<u>Selectman Roy made a motion, seconded by Selectman Martin at 8:23 p.m.</u> Carried 5-0.

- 8. <u>NEW BUSINESS</u>
 - A. Hudson Water Utility Rules and Regulation Revision
 - B. Engineering Assessment Update Liberty Field
- 9. REMARKS BY SCHOOL BOARD
- 10. REMARKS BY TOWN ADMINISTRATOR
- 11. OTHER BUSINESS/REMARKS BY THE SELECTMEN
- 12. NONPUBLIC SESSION

RSA 91-A:3 II (b) The hiring of any person as a public employee

THE SELECTMEN MAY ALSO GO INTO NON-PUBLIC SESSION FOR ANY OTHER SUBJECT MATTER PERMITTED PURSUANT TO RSA 91-A:3 (II).

13. ADJOURNMENT

Reminder ... Items for the next agenda, with complete backup, must be in the Selectmen's Office **no later than 12:00 noon on February 20, 2020.**



TOWN OF HUDSON

Office of the Assessor

Jim Michaud

Chief Assessor, CAE

email: jmichaud@hudsonnh.gov

www.hudsonnh.gov

12 School Street · Hudson, New Hampshire 03051 · Tel: 603-886-6009 · Fax: 603-594-1160

TO:

Steve Malizia, Town Administrator

Board of Selectmen

FROM:

Jim Michaud, Chief Assessor

DATE:

February 4, 2020

RE:

Tax Deferral Application- map 145/ lot 011/ sub 002

12 Sullivan Road

Please grant and sign the attached Tax Deferral Application for the property owner listed below:

Roberta Johnston – 12 Sullivan Road - map 145/ lot 011/ sub 002

The Board of Selectmen has granted this deferral in previous years. The total of the respective tax liens on this property does not exceed 85% of the assessed value (per RSA 72:38a). There is no mortgage on this property so no further approval is required.

MOTION:

Motion to grant a Tax Deferral for the property owner referenced in the above request.

PLEASE SIGN IN BLACK INK

FORM
PA-30

NEW HAMPSHIRE DEPARTMENT OF REVENUE ADMINISTRATION

ELDERLY AND DISABLED TAX DEFERRAL APPLICATION

DUE MARCH 1 FOLLOWING THE NOTICE OF TAX

STEP 1	OWNER AND AP		
OWNER AND	OWNER	If required, is a PA-33 on file?	
APPLICANT NAME	ROBERTA JOHNSTON		YES (NO
AND	APPLICANT'S LAST NAME	APPLICANT'S FIRST NAME	MI
ADDRESS	JOHNSTON	ROBERTA	
	APPLICANT'S LAST NAME	APPLICANT'S FIRST NAME	MI
	STREET ADDRESS		
	12 SULLIVAN RD.		
	MAILING ADDRESS (if different from above)		
	CITY/TOWN		STATE ZIPCODE
	HUDSON		NH 03051
	PROPE	RTY LOCATION	
STEP 2 PROPERTY	STREET		
LOCATION	12 SULLIVAN RD		
	CITY/TOWN	C	YTNUC
	HUDSON	Н	ILLSBOROUGH
	NUMBER OF ACRES TAX MAP BLOC	K LOT _	BOOK PAGE
	145 011	002	7,432 2,490
		7	
STEP 3 TO BE	(a) Tax year for which the deferral is requested 2019		
COMPLETED	(b) Amount of requested tax deferral \$	1,092	
BY PROPERTY	(c) Amount of tax bill \$	1,092	
OWNER	(d) Is the applicant:	YES NO	
	65 or older and has owned homestead for five (5) consecuti		
	Receives benefits under Title II or Title XVI of the Federal S	,	
	Security Act and has owned homestead for one year; and	O O	
	Living in the home?	\oslash \bigcirc	
STEP 4 OWNER	I understand that upon approval of this application by the municipal pursuant to RSA 72:38-a. My signature below indicates my agreem Under penalties of periury. I declare that I have examined this do	ent with the obligation incurred agains	at the property described in Step 2 above.
SIGNATURES	complete.		.//2
	Roberta B Johns TON	(Po) (och 4 /3) a	1/30/20
	TYPE OR PRINT NAME	SIGNATURE (IN INK)	DATE
			P and the same
	TYPE OR PRINT NAME	SIGNATURE (IN INK)	DATE
	TYPE OR PRINT NAME	SIGNATURE (IN INK)	DATE
	TYPE OR PRINT NAME	SIGNATURE (IN INK)	DATE
	THE STITING WANTE	Charles Transport (MERNING)	

FORM PA-30

NEW HAMPSHIRE DEPARTMENT OF REVENUE ADMINISTRATION

ELDERLY AND DISABLED TAX DEFERRAL APPLICATION

STEP 5 APPROVAL BY	By signing below, the mortgagee signifies that they do approve and are duly notified that upon approval of this application by the municipal assessing officials, a lien shall be created against the above described property, pursuant to RSA 72:38-a, III.					
THE MORTGAGEE						
	NAME OF MORTGAGE HOLDER					
		TITLE	DATE			
	SIGNATURE OF OFFICER OR AGENT FOR MORTGAGEE	HILE	UNIC			
	TO BE COMPLETED BY MUNIC	IPAL ASSESSING OFFICIALS				
STEP 6	(a) Amount of tax deferred in prior years	\$17,755				
AMOUNT OF TAXES	(b) Amount of tax deferred in current year	\$1,092				
DEFERRED	(c) Total amount of taxes deferred [6(a) + 6(b)]	\$18,847				
STEP 7	(a) Enter the percentage of total equity value of the property e	ncumbered in prior years 7.8%				
PERCENT OF EQUITY VALUE	(b) Enter the percentage of total equity value of the property e	ncumbered in current year 0.5%				
ENCUMBERED	(c) Percentage of total equity value the property encumbered	for: All Years [7(a) + 7(b)] 8.3%				
STEP 8		GRANTED DENIED AMOUNT	DATE			
MUNICIPAL DECISION	☑ Elderly Tax Deferral	0 0				
	Disabled Tax Deferral	0 0				
	For Deferrals: This page must be returned to the property owr Tax as defined in RSA 72:1-d, by first class mail. (RSA 72:34,	ner after approval or denial, on or before July 1, following th IV)	ne date of Notice of			
And the second s	Reason for Denial	4 4				
STEP 9 APPROVAL OF						
A MAJORITY OF SELECTMEN / MUNICIPAL	PRINT / TYPE NAME OF SELECTMEN / MUNICIPAL ASSESSING OFFICIAL	SIGNATURE (IN INK) OF SELECTMEN / MUNICIPAL ASSESSING OFFIC				
ASSESSING OFFICIALS	PRINT / TYPE NAME OF SELECTMEN / MUNICIPAL ASSESSING OFFICIAL	SIGNATURE (IN INK) OF SELECTMEN / MUNICIPAL ASSESSING OFFIC	IAL DATE			
	PRINT / TYPE NAME OF SELECTMEN / MUNICIPAL ASSESSING OFFICIAL	SIGNATURE (IN INK) OF SELECTMEN / MUNICIPAL ASSESSING OFFIC	IAL DATE			
	PRINT / TYPE NAME OF SELECTMEN / MUNICIPAL ASSESSING OFFICIAL	SIGNATURE (IN INK) OF SELECTMEN / MUNICIPAL ASSESSING OFFIC	IAL DATE			
	PRINT / TYPE NAME OF SELECTMEN / MUNICIPAL ASSESSING OFFICIAL	SIGNATURE (IN INK) OF SELECTMEN / MUNICIPAL ASSESSING OFFIC	DATE DATE			
	PRINT / TYPE NAME OF SELECTMEN / MUNICIPAL ASSESSING OFFICIAL	SIGNATURE (IN INK) OF SELECTMEN / MUNICIPAL ASSESSING OFFICE	DATE DATE			
	PRINT / TYPE NAME OF SELECTMEN / MUNICIPAL ASSESSING OFFICIAL	SIGNATURE (IN INK) OF SELECTMEN / MUNICIPAL ASSESSING OFFIC	DATE			

NEW HAMPSHIRE DEPARTMENT OF REVENUE ADMINISTRATION

ELDERLY AND DISABLED TAX DEFERRAL APPLICATION

WHO MAY FILE	Under the provisions of RSA 72:38-a, I, any resident property owner may apply for a tax deferral if they: • Are either at least 65 years of age or eligible under Title II or Title XVI of the Federal Social Security Act for benefits for the disabled; • Have owned the homestead for at least five consecutive years if elderly or at least one year if disabled; and • Are living in the home.
WHEN TO FILE	The completed Form PA-30 shall be filed by March 1 following the date of notice of tax. Example: If you are applying for a tax deferral from your 2014 property taxes, which are due no earlier than December 1, 2014, then you have until March 1, 2015 to file this form.
WHERE TO FILE	Once completed and signed in ink, this form shall be filed as follows: Original: Register of Deeds Copy: To the Selectmen / Municipal Assessing Officials of the municipality of your primary residence Copy: Property Owner
TAX DEFERRAL PROVISIONS	The municipal assessing officials may annually grant a person qualified under this paragraph a tax deferral for all or part of the taxes due, plus annual interest at five percent, if in their opinion the tax liability causes the taxpayer an undue hardship or possible loss of the property. The total of tax deferrals on a particular property shall not be more than 85 percent of its equity value.
	A tax deferral shall be subject to any prior liens on the property and shall be treated as such in any foreclosure proceedings.
	If the property is subject to a mortgage, the owner must have the mortgage holder's approval of the tax deferral. Such approval does not grant the town a preferential lien.
APPEALS	The municipal assessing officials shall send written notice advising the taxpayer of their decision to grant or deny the request for exemption by July 1. Failure of the municipal assessing officials to respond shall constitute a denial of the application.
	If an application for a property tax deferral is denied, an applicant may appeal in writing on or before September 1 following the date of notice of tax under RSA 72:1-d, to the New Hampshire Board of Tax and Land Appeals (BTLA) or the County Superior Court in the county where the property is located. Example: If you were denied a deferral from your 2014 property taxes, you have until September 1, 2015 to appeal.
	Forms for appealing to the Board of Tax and Land Appeals may be obtained from the New Hampshire Board of Tax and Land Appeals, 107 Pleasant Street, Concord, NH 03301, by calling (603) 271-2578 or by visiting their website at www.nh.gov/btla . Be sure to specify that you are appealing the Elderly or Disabled Tax Deferral application denial.
ADA COMPLIANCE	Individuals who need auxiliary aids for effective communication in programs and services of the New Hampshire Department of Revenue Administration are invited to make their needs and preferences known. Individuals with hearing or speech impairments may call TDD Access: Relay NH 1-800-735-2964.
NEED HELP	Contact your local municipality or the Municipal and Property Division at (603) 230-5950; or visit the department's website at www.revenue.nh.gov/forms.

LINE-BY-LINE INSTRUCTIONS

STEP 1	Enter the complete name and address of the property owner(s) requesting a tax deferral under RSA 72:38-a.
STEP 2	Enter the location, street address, municipality, county, number of acres, tax map, block and lot numbers, and book and page numbers of the property for which the RSA 72:38-a, deferral is requested.
STEP 3	 (a) Enter the tax year for which the deferral is requested. (b) Enter the amount of the requested tax deferral. (c) Enter the amount of the tax bill for the year of this application. (d) Check the appropriate boxes to indicate that all of the qualification requirements have been met.
STEP 4	ALL property owners of record must type or print their full name, sign and date in ink, acknowledging that they understand and agree to the obligation incurred against the property by electing a deferral of taxes under RSA 72:38-a. If there are more than four owners, submit a supplemental list of names and signatures.
STEP 5	Enter the name of the mortgage holder and obtain the signature of an authorized agent for the mortgage holder.
STEP 6	The municipal assessing officials shall complete this step. (a) Enter the amount of taxes deferred in prior years. (b) Enter the amount of tax requested for deferral in the current year. (c) The total amount of the tax deferral (Step 6(a) plus Step 6(b)).
STEP 7	The municipal assessing officials shall complete this step. (a) Enter the percentage of the total equity value encumbered under RSA 72:38-a in prior years. (b) Enter the percentage of the total equity value encumbered under RSA 72:38-a in the current year. (c) The percentage of the total equity value encumbered for all years combined (Step 7(a) plus Step 7(b)). If the result of Step 7(c) exceeds 85 percent, this application will be denied pursuant to RSA 72:38-a, I.
STEP 8	The municipal assessing officials shall complete this step. Check applicable box for type of tax deferral. Check whether tax deferral was granted or denied. If granted, enter dollar amount granted. Enter date tax deferral was granted.
STEP 9	Signatures of a majority of the local Selectmen or municipal assessing officials on the lines provided indicates approval.



TOWN OF HUDSON

Office of the Assessor

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Jim Michaud Chief Assessor, CAE

email: jmichaud@hudsonnh.gov

www.hudsonnh.gov

6.A.2

MEMORANDUM

TO:

Board of Selectmen

Steve Malizia, Town Administrator

FROM: Jim Michaud, Chief Assessor

DATE: February 4, 2020

RE:

Current Use Lien Release

Map 223 Lot 43-6 – 9 Copper Hill Road

The attached Current Use Lien Release for the above referenced site is for the BOS's review and consideration. The land to come out of current use in this subdivision is a lot that was sold by the developer/owner to another, which resulted in land less than 10 acres being owned under identical ownership. We have reviewed the subdivision documents that created this parcel, reviewed vacant residential building lot land sales from 2018-2020, the Subject parcel itself sold for \$160,000 in an arm's length transaction in January 2020, and have determined a market value of \$160,000 is market supported for this site.

DRAFT MOTION

Motion to approve the attached Current Use Penalty Lien Release for Map 223 Lot 43-6, as recommended by the Chief Assessor.

CurrUseLienRelease9CopperHillRdBOSMemo



FORM A-5

NEW HAMPSHIRE DEPARTMENT OF REVENUE ADMINISTRATION

LAND USE CHANGE TAX

STEP 1 PROPERTY OWNER(S) AND RESPONSIBILE PARTY (if applicable)

LAST NAME		FIRST NAME	INITIAL
KIHIKO		JAMES, TRUSTEE	N
LAST NAME		FIRST NAME	(N)TIAL
MIMO		REALTY TRUST	
C RESPONSIBLE PA			
STREET ADDRES			
STREET ADDRES	EADOW ROAD		
STREET ADDRES	EADOW ROAD	STATE	ZIP CODE+4

STEP 2 PROPERTY LOCATION

	STREET			4, 					
PRINT	9 COPPER HILL F	9 COPPER HILL RD							
	TOWNCITY					COUNTY			
R OR	HUDSON				HILLSBOROUGH				
TYPE	NUMBER OF ACRES		CHECK ONE:				BOOK#	PAGE#	
4SE	3.363		PARTIAL RI	ELEASE 🗸 FI	JLL R	ELEASE	9254	929	
P.E	MAP#	LOT#		MAP#	LC	Τ#	MAP#	LOT#	
"	223	43-6		ACCT#11096					

STEP 3 LOCAL IDENTIFICATION OF LAND BEING DISQUALIFIED

(a) Owners Name of Record When Land Was First Classified VICTOR T. GUERTIN	3154	PAGE # 851
(b) Number of Acres Originally Classified		50 AC (S/B 37.496)
(c) Number of Acres Previously Disqualified		24.408
(d) Acres Disqualified per this Assessment		3.363
(e) Number of Acres Remaining in Current Use [3(b) minus 3(c) and 3(d)]		9.725

STEP 4 ASSESSMENT OF LAND USE CHANGE TAX

(a) Narrative description of the disqualification: LOT SOLD 1/17/2020, SITE LESS THAN 10 ACRES				
UNDER IDENTICAL OWNERSHIP				
(b) Actual Date of Change in Use (MM/DD/YYYY) 1-17-20				
(c) Full and True Value at Time of Change in Use \$ 160,000				
(d) Land Use Change Tax [Step 4(c) x 10%]	\$	16,000.00		

LAND USE CHANGE TAX

STEP 5 SIGNATURES OF A MAJORITY OF SELECTMEN/ASSESSORS

TYPE OR PRINT NAME (in black ink) DAVID S. MORIN	SIGNATURE (in black ink)	DATE
TYPE OR PRINT NAME (in black ink) KARA ROY	SIGNATURE (in black ink)	DATE
TYPE OR PRINT NAME (in black ink) ROGER E. COUTU	SIGNATURE (in black ink)	DATE
TYPE OR PRINT NAME (In black ink) MARILYN McGRATH	SIGNATURE (in black ink)	DATE
TYPE OR PRINT NAME (in black ink) NORMAND G. MARTIN	SIGNATURE (in black ink)	DATE

STEP 6 LAND USE CHANGE TAX NOTICE (TO BE COMPLETED BY LOCAL ASSESSING OFFICIALS)

FINE	LAST NAME KIHIKO	FIRST NAME JAMES N., TRUSTEE MIMO RLTY TR		
OR PRINT	ADDRESS	4		
SE TYPE	ADDRESS (continued) 44 WEST MEADOW ROAD			
PLEASE	TOWACITY LOWELL	STATE MA	ZIP CODE+4 01854	
(а) Date of Release (MM/DD/YYYY)	2/4/2020		
(b) Date of Bill (MM/DD/YYYY)			
(с) Full and True Value at Time of Change in Use	\$	160,000	
(d) Total Tax Due	\$	16,000.00	

STEP 7 CHECKS PAYABLE TO AND MAILED TO (TO BE COMPLETED BY TAX COLLECTOR)

(a) Make Ch	neck Payable to: TC	WN OF HUDSON		
(b) Mail To:	NAME TOWN OF HUDSON,	C/O PATTI BARRY, TOWN CL	ERK/TAX COLLECTOR	
	ADDRESS 12 SCHOOL STREET			
	TOWN/CITY HUDSON	state NH	ZIP CODE+4 03051	**************************************
(c) Tax Colle	ector's Offi ce Location	12 SCHOOL STREET, HUL	DSON, NH 03051	
(d) Tax Colle	ector's Offi ce Hours:	8 AM - 4:30PM MONDAY THR	RU FRIDAY, 8 AM - 7:00PM THU	RSDAY
(e) Include a	a separate check in the	amount of \$ 16.49		
Payable	to HILLSBOROUGH CO	UNTY REGISTRY OF DEEDS	for recording fee at County	Register of Deeds.
(f) Payment	of this tax is due no la	ter than 30 days after mailing	g of this bill. Interest, at the rate	e of 18%
per annui	m shall be due if this t	ax is not paid on or before		

STEP 8 ACKNOWLEDGMENT OF PAYMENT

SIGNATURE (in black ink) OF TAX COLLECTOR	DATE PAID

FORM A-5W

NEW HAMPSHIRE DEPARTMENT OF REVENUE ADMINISTRATION WARRANT FOR LAND USE CHANGE TAX

STEP 1 - TAX COLLECTOR'S WARRANT FOR LAND USE CHANGE TAX IN THE MUNICIPALITY OF:

HUDSON			
STREET ADDRESS		···-	
12 SCHOOL STREET			
MAILING ADDRESS			
MUNICIPALITY HUDSON	STATE	ZIP COÐE	***
HODSON	NH	0305	ı
STEP 2 - COLLECTION OF LAND USE CHANGE TA	X		
(a) State of New Hampshire, County of: HILLSBORG	DUGH		
(b) To: PATTI BARI /			
(c) for the municipality of: HUDSON			Municipal Collector of taxe
			in said Count
(d) In the name of said State you are directed to coll committed to you, amounting in all of the sum of: Interest at 18% will be assessed after 30 days.	ect the LAND USE CHANGE TAX in t	he list herewith \$	16,000.00
(e) Given under our hands at 7:00pm			I
(f) This day of FEBRUARY 4 2020			
(g) LANDOWNER NAME OR RIGHT-OF- WAY RESPONSIBLE	PARTY		
JAMES N. KIHIKO, TRUSTEE, MIMO REALTY TRUST	7.4471		
LANDOWNER NAME OR RIGHT -OF- WAY RESPONSIBLE PAR	OTV MAILING ADDRESS		
44 WEST MEADOLV RD, LOWELL, MA, 01854	ALL MAITING ADDRE22		
(h) MUNICIPAL TAK MAP	LOT NUMBER		
223-043-006	ACCT#11096		
4			

STEP 3 - SIGNATURES OF A MAJORITY OF THE MUNICIPAL ASSESSING OFFICIALS

SIGNATURE (in black or dark blue ink)	DATE
SIGNATURE (In black or dark blue Ink)	DATE
SIGNATURE (in black or dark blue ink)	DATE
SIGNATURE (in black or dark blue ink)	DATE
SIGNATURE (in black or dark blue Ink)	DATE
	SIGNATURE (in black or dark blue ink) SIGNATURE (in black or dark blue ink) SIGNATURE (in black or dark blue ink)



TOWN OF HUDSON

Office of the Assessor

Jim Michaud Chief Assessor, CAE

email: jmichaud@hudsonnh.gov

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MEMORANDUM

TO:

Board of Selectmen

Steve Malizia, Town Administrator

FROM: Jim Michaud, Chief Assessor

DATE: February 4, 2020

RE:

Current Use Lien Release

Map 223 Lot 43-5 – 11 Copper Hill Road

The attached Current Use Lien Release for the above referenced site is for the BOS's review and consideration. The land to come out of current use in this subdivision is a lot that was sold by the developer/owner to another, which resulted in land less than 10 acres being owned under identical ownership. We have reviewed the subdivision documents that created this parcel, reviewed vacant residential building lot land sales from 2018-2020, the Subject parcel itself is under agreement in the net for \$178,000 (this includes a \$5,000 concession to install a new driveway-an improvement not includable for vacant lot land use change tax purposes) in an arm's length marketing process for January 2020, and have determined a market value of \$173,000 is market supported for this site.

DRAFT MOTION

Motion to approve the attached Current Use Penalty Lien Release for Map 223 Lot 43-5, as recommended by the Chief Assessor.

CurrUseLienRelease11CopperHillRdBOSMemo

FORM A-5

NEW HAMPSHIRE DEPARTMENT OF REVENUE ADMINISTRATION

LAND USE CHANGE TAX

STEP 1 PROPERTY OWNER(S) AND RESPONSIBILE PARTY (if applicable)

	LAST NAME	FIRST NAME	INITIAL
	HSU	TAI-DEH	
	LAST NAME	FIRST NAME	INITIAL
PRINT	HSWY	REALTY TRUST	
OR P	RESPONSIBLE PARTY, IF OTHER THAN PROPERT	Y OWNER [RSA 79-A:7, [I(e)]	
TYPE	STREET ADDRESS 1 SPRINGVALE DRIVE		
PLEASE	ADDRESS (continued)		
	TOWN/CITY	STATE	ZIP CODE+4
	HOLLIS	NH	03049

STEP 2 PROPERTY LOCATION

	STREET							· · · · · · · · · · · · · · · · · · ·	
PRINT	11 COPPER HILL	RD							
lg.	TOWN/CITY					COUNTY			
m SO	HUDSON HILLSBOROUGH								
TYPE	NUMBER OF ACRES		CHECK ONE:	F			BOOK#	PAGE#	
ASE	9.725 W/RD		PARTIAL RE	LEASE F	JLL RE	LEASE 🗸	7347	2987	
RE	MAP#	LOT#		MAP#	LO	Γ#	MAP#	LOT#	
Ľ	223	43-5		ACCT#11095					

STEP 3 LOCAL IDENTIFICATION OF LAND BEING DISQUALIFIED

(a) Owners Name of Record When Land Was First Classified VICTOR T. GUERTIN	воок# 3154	PAGE # 851	
(b) Number of Acres Originally Classified		50 AC (S/B 37.496)	
(c) Number of Acres Previously Disqualified		27.771	
(d) Acres Disqualified per this Assessment		9.725	
(e) Number of Acres Remaining in Current Use [3(b) minus 3(c) and 3(d)]		0	

STEP 4 ASSESSMENT OF LAND USE CHANGE TAX

(a) Narrative description of the disqualification: SITE LESS THAN 10 ACRES				
UNDER IDENTICAL OWNERSHIP				
(b) Actual Date of Change in Use (MM/DD/YYYY)	1-17-20			
(c) Full and True Value at Time of Change in Use	\$	173000		
(d) Land Use Change Tax [Step 4(c) x 10%]	\$	17,300.00		

LAND USE CHANGE TAX

STEP 5 SIGNATURES OF A MAJORITY OF SELECTMEN/ASSESSORS

TYPE OR PRINT NAME (in black ink) DAVID S. MORIN	SIGNATURE (in black ink)	DATE
TYPE OR PRINT NAME (in black ink) KARA ROY	SIGNATURE (In black ink)	DATE
TYPE OR PRINT NAME (in black ink) ROGER E. COUTU	SIGNATURE (in black ink)	DATE
TYPE OR PRINT NAME (in black ink) MARILYN McGRATH	SIGNATURE (In black ink)	DATE
TYPE OR PRINT NAME (in black ink) NORMAND G. MARTIN	SIGNATURE (in black ink)	DATE

STEP 6 LAND USE CHANGE TAX NOTICE (TO BE COMPLETED BY LOCAL ASSESSING OFFICIALS)

LAST NAME HSU	FIRST NAME TAI-DEH, TRU	FIRST NAME TAI-DEH, TRUSTEE HSWY RLTY TR		
HSU ADDRESS ADDRESS (continued)				
ADDRESS (continued) 1 SPRINGVALE DR				
以 1 SPRINGVALE DR TOWNICITY HOLLIS	state NH	ZIP CODE+4 03049		
(a) Date of Release (MM/DD/YYYY)	2/4/2020			
(b) Date of Bill (MM/DD/YYYY)				
(c) Full and True Value at Time of Change in Use	\$	173,000		
(d) Total Tax Due	\$	17,300.00		

STEP 7 CHECKS PAYABLE TO AND MAILED TO (TO BE COMPLETED BY TAX COLLECTOR)

(a) Make Ch	eck Payable to: TOWN	I OF HUDSON				
(b) Mail To: NAME TOWN OF HUDSON, C/O PATTI BARRY, TOWN CLERK/TAX COLLECTOR						
	ADDRESS 12 SCHOOL STREET			1000		
	TOWN/CITY HUDSON	STATE NH	ZIP CODE+4 03051			
(c) Tax Collec	ctor's Offi ce Location:	12 SCHOOL STREET, HUD	DSON, NH 03051			
(d) Tax Collec	(d) Tax Collector's Offi ce Hours: 8 AM - 4:30PM MONDAY THRU FRIDAY, 8 AM - 7:00PM THURSDAY					
(e) Include a separate check in the amount of \$ 16.49 Payable to HILLSBOROUGH COUNTY REGISTRY OF DEEDS for recording fee at County Register of Deeds.						
i	of this tax is due no later t n, shall be due if this tax is		of this bill. Interest, at the rate of 18%	6		

STEP 8 ACKNOWLEDGMENT OF PAYMENT

SIGNATURE (In black ink) OF T	AX COLLECTOR	DATE PAID
		İ

FORM A-5W

NEW HAMPSHIRE DEPARTMENT OF REVENUE ADMINISTRATION WARRANT FOR LAND USE CHANGE TAX

STEP 1 - TAX COLLECTOR'S WARRANT FOR LAND USE CHANGE TAX IN THE MUNICIPALITY OF:

NAME OF MUNICIPALITY				
HUDSON				
STREET ADDRESS				-19-1
12 SCHOOL STREET				
MAILING ADDRESS				
MUNICIPALITY	STATE	ZIP COI	DE	
HUDSON	NH	030		
STEP 2 - COLLECTION OF LAND USE CHANGE TAX				
(a) State of New Hampshire, County of: HILLSBOROUGH		V-144		3112-00.
(b) To: PATTI BARRY				Municipal Collector of taxe
(c) for the municipality of: HUDSON				in said County
(d) In the name of said State you are directed to collect the committed to you, amounting in all of the sum of: Interest at 18% will be assessed after 30 days.	e LAND USE CHANGE		\$	17,300.00
(e) Given under our hands at 7:00pm				
(f) This day of FEBRUARY 4 2020		**************************************		
(g) LANDOWNER NAME OR RIGHT-OF- WAY RESPONSIBLE PARTY TAI DEH-HSU, TRUSTE HSWY REAL ESTATE TRUST	44544			***************************************
LANDOWNER NAME OR RIGHT -OF- WAY RESPONSIBLE PARTY MA 1 SPRINGVALE DR, HOLLIS, NH 03049	ILING ADDRESS		***************************************	
(h) MUNICIPAL TAX MAP	LOT NUMBER			
223-043-005	ACCT#11095			

STEP 3 - SIGNATURES OF A MAJORITY OF THE MUNICIPAL ASSESSING OFFICIALS

TYPE OR PRINT NAME (in black or dark blue ink) DAVID S. MORIN	SIGNATURE (in black or dark blue ink)	DATE
TYPE OR PRINT NAME (in black or dark blue ink) KARA ROY	SIGNATURE (in black or dark blue ink)	DATE
TYPE OR PRINT NAME (in black or dark blue ink) ROGER E. COUTU	SIGNATURE (in black or dark blue ink)	DATE
TYPE OR PRINT NAME (in black or dark blue ink) MARILYN MCGRATH	SIGNATURE (in black or dark blue ink)	DATE
TYPE OR PRINT NAME (in black or dark blue ink) NORMAND G. MARTIN	SKGNATURE (in black or dark blue ink)	DATE

Ayerda Z-4-20



TAG DAY SALES Hudson, NH

C.1

RSA 31:91 Soliciting Funds

The right to grant permits for soliciting funds for charitable purposes and for the sale of tags, flowers or other objects for charitable purposes shall be vested in the mayor and aldermen of a city or the selectmen of towns.

Instructions to obtain a Tag Day Permit:

- 1) Submit a letter to the Board of Selectmen at 12 School Street, Hudson, NH 03051, stating the date, time and location that the collection of funds will take place. (Information can be FAXed to 603-598-6481)
- Indicate how the collected funds will be used/distributed or to whom it will benefit or to whom the funds will be collected on behalf of. Include verification of being properly registered with the NH Attorney General's Office, Division of Charitable Trusts, unless exempt, i.e., governmental subdivisions or religious organizations, who shall provide verification they are the bona fide representative of an exempt entity (RSA 7:19, et seq).
- 3) Include name, address, phone number and e-mail address of a contact person in case there are questions, concerns or if additional information is required.
- 4) Include a signed letter of permission from the establishment where the collection of funds will take place.

For Office Use Only
Organization Girl Scouts of the Green and White Mountains
ApprovedDenied by Board of Selectmen on
If denied, reason
Board of Selectmen Chairman



October 4, 2019

Hudson Sams Club Store #6352 Store Manager 7 Walmart Blvd Hudson, NH 03051

RE: Girl Scouts of the Green and White Mountains 2020 Girl Scouts' Cookie Sales Campaign

1 Commerce Drive Bedford, NH 03110-6835 Toll-free 888.474.9686 F 603.627.4169 Girlscoutsgwm.org

Dear Sams Club Manager:

We are very pleased to be working in partnership with Walmart for our Girl Scouts to broaden their business experiences through cookie booth sales at our local Walmart locations.

Enclosed please find a signed Notice of Rules for Solicitation and Distribution of Literature for the 2020-2021 Girls Scouts Cookie Sales Campaign as negotiated between Walmart and Girl Scouts of the USA. Enclosed you will find our endorsed agreement for your review.

In order to finalize arrangements with your location, a local Girl Scout volunteer will be contacting you to coordinate all of the booth sales with your store. We have provided our volunteers with a Summary of the Solicitation rules to ensure they understand our mutual expectations.





If you should have any questions, please do not hesitate to contact me. Thank you very much for your support and partnership.

Sincerely,

Patricia K. Mellor Chief Executive Officer

En/

Girl Scouting builds girls of courage, confidence, and character, who make the world a better place.

Charitable Charita

(-29, 20





Sam's Club #6352 7 Wal-mart Blvd Hudson, NH 03051 (603) 882 – 4600

To whom it may concern,

The following organization has been approved by Sam's Club to run a fund raising event outside the store:

Organization: Girl Scouts of the Green & White Mountains

Contact Name: Cynthia Knowlton

Contact Phone: (403) 882-4680

Event Date(s): 2/29,3/1,3/7,3/8,3/14,3/15,3/1,3/22,3/28 2/22,2/23,2/28,3/12 + 3/29

If there are any questions, please contact the Marketing Team at Sam's Club # 6352.

Thank you,



RECEIVED

JAN 2 4 2020

SELECTMEN'S OFFICE C.2

= RAFFLE PERMIT =

Hudson, New Hampshire

AND DESCRIPTION OF THE ADDRESS OF TH			
Name of Organization: Trinity LLC the Bar			
Address: 26 Burnham Rd Hudson NH 03051			
Raffle Benefit of: Branchie Fiorenza - Colorectal Cancer Stage			
Date & Time of Raffle: Felo 22, 2020			
Raffle to be held at: The Bar			
Prizes: Raffics			
Date of Ticket Sales: FCW 22, 2020			
(must be <u>after</u> date of Board of Selectmen approval)			
Applicant's Signature Applicant's Signature Applicant's Signature Applicant's Printed Name 56 Richman Rd Hudsur Address Phone Number	- 1		
Approved on:, by			
HUDSON BOARD OF SELECTMEN			
Chairman			
ielectman			
Gelectman			
Gelectman			
ielectman			

(Fax completed form to 603-598-6481 or e-mail to lweissgarber@hudsonnh.gov, with Raffle Permit in subject line.)

HUDSON, NH BOARD OF SELECTMEN

Minutes of the January 28, 2020 Meeting

1. CALL TO ORDER

By Chairman Morin for the meeting of January 28, 2020 at 7:00 p.m. in the Selectmen's Meeting Room at Town Hall

MOMENT OF SICLENCE AND PLEDGE OF ALLEGIANCE

Prior to the Pledge of Allegiance, Chairman Morin read a statement and asked the all in attendance to participate in a moment of silence in honor of Officer Katie Thyne of the Newport News, Virginia Police Department. Officer Thyne was killed in the line of duty last week. She was a graduate of Alvirine High School.

The Pledge of Allegiance was led by Bill Collis, Vice-Chairman of the Conservation Commission.

ATTENDANCE

<u>Board of Selectmen:</u> David Morin, Kara Roy, Roger Coutu, Marilyn McGrath, and Normand Martin <u>Staff/Others:</u> Steve Malizia - Town Administrator; Jill Laffin - Executive Assistant; Jess Forrence - Director of Public Works; Rob Buxton - Fire Chief; Bill Avery, Police Chief, Master Patrol Officer Jason Downey; Police Sgt. Roger Lamarche; Gary Gasdia - School Board Representative; Bill Collins, Vice-Chairman of the Conservation Commission

4. PUBLIC INPUT

Chairman Morin asked if anyone in the audience wished to address the Board on any issue which the Board has control of at this time. Seeing none

5. RECOGNITIONS, NOMINATIONS, APPOINTMENTS AND RESIGNATIONS

A. Resignations:

Motion made to accept the resignation of Mike Pitre, member of the Citizen's Traffic Advisory Committee. Motion carried 5-0.

Mr. Thomas Barrett was scheduled to come before the Board this evening to be interviewed and appointed as a member to the Citizen's Traffic Advisory Committee. Due to illness he will be interviewed and appointed at a future meeting.

6. CONSENT ITEMS

Chairman Morin asked if any member of the Board wanted to remove any Consent Items for separate consideration. No consent items were removed for separate consideration. Upon reviewing the upcoming calendar, the Board decided to cancel their February 10th meeting and instead hold a meeting on February 4th.

A. Assessing Items

- 1) Veteran Tax Credits (deferred from 1/14 mtg.) Map 139, Lot 013 4 North Ridge Rd. Map 253, Lot 065-15 Schaeffer Cir.
- 2) <u>Veteran Tax Credits:</u> Map 216, Lot 014 44 Reflection Road; Map 127, Lot 003 18 Hopkins Drive
- 3) All Veterans Tax Credits: Map 177, Lot 050 49 Bear Path Lane
- 4) 2019 Property Tax Abatement: Map 173, Lot 18 17 Tolles Street
- 5) 2019 Property Tax Supplemental Tax Bill: Map 245, Lot 8 31 Fairway Drive

Water/Sewer Items

1) Water Abatement W-UTL-20-01 - 13 Hickory Street w/ recommendation to approve

Licenses, Permits and Policies

- 1) Hawker/Peddler/Itinerant Vendor's License Lix Ice Cream
- 2) Tag Day Permit Girls Scouts of the Green and White Mountains
- Outdoor Gathering Permit & Raffle Permit Ice Fishing Tournament Hudson Kiwanis Club
- 4) Hawker/Peddler/Itinerant Vendor's License The Blushing Rose

Donations

- 1) \$831.58 to Hudson Recreation Department from AAT Photo
- \$400.00 to Hudson Fire Department from Sparkling River Condo Association of Hudson

Acceptance of Minutes

1) Minutes of the January 14, 2020 Meeting

Calendar

- 7:00 Board of Selectmen Workshop BOS Meeting Room
 9:00 School Deliberative Session
 8:30 Highway Safety Committee Buxton Meeting Room
 7:00 Budget Committee CANCELLED
 9:00 Town Deliberative Session
 7:00 Cable Utility Committee CANCELLED
 7:00 Conservation Commission
 7:00 Board of Selectmen (note this meeting is on Monday as Tuesday,
- 2/11 is the Presidential Primary)

Selectman Coutu made a motion, seconded by Selectman Martin, to approve Consent Items A, B, C, D, E and F as amended. Motion carried 5-0.

7. OLD BUSINESS

- A. Votes taken after Nonpublic Session on January 14, 2019
 - 1) Selectman Martin made a motion, seconded by Selectman Roy, to approve the hiring of Andrew Silver for the position of Firefighter/AEMT in the Fire Department at the contracted salary of \$20.55 per hour (step 1). This assignment will be a non-exempt position in accordance with the International Association pf Firefighters Local #3154 as per the union contract. Carried 5-0.

- 2) <u>Selectman Coutu made a motion to adjourn at 9:50 p.m. This was seconded by</u> Selectman Martin. Carried 5-0.
- B. Hawker/Peddler/Itinerant Vendor's License which was deferred from 1/14/20 Meeting -Spring Hill Catering

Mr. Malizia informed the Board that there was correspondence in front of them regarding this application. Selectman McGrath stated I requested that that be deferred so we could determine whether or not they were in compliance with the Zoning Board special exception and the stipulations of approval. I talked to Bruce. I had also received a complaint about that particular business. So I filled out the complaint form, I talked to Bruce, he did an inspection and talked to the property owner and they are in compliance so we can move forward. Selectman Coutu made a motion, seconded by Selectman Roy, to approve Hawker/Peddler License for Spring Hill Catering. Carried 5-0.

8. NEW BUSINESS

A. Public Hearing - Acceptance of the 2020 Exotic Aquatic Plant Control Grant from NHDES

Chairman Morin recognized Bill Collins, Vice-Chairman of the Conservation Commission. Mr. Collins went on to explain that is time to review the aquatic plant controls at Robinson Pond and Ottarnic Pond. The State has supplied us with the new level of funding for this year with a total grant amount up to \$22,634.00 the grant will be divvied up between Robinson Pond and Ottarnic Pond for both chemical treatment and diver assisted suction harvesting. The chemical treatments will take place mainly in June at Ottarnic Pond and Robinson Pond. The diver assisted plant harvesting will take place from April through November. I'm here today to see if you guys will accept the current grant. Also the difference will be paid for from the Conservation Commission professional services fund. Chairman Morin opened a public hearing at 7:10 p.m. Seeing no one present to discuss the matter at hand, Chairman Morin closed the public hearing at 7:10 p.m. Selectman Coutu made a motion, seconded by Selectman McGrath to accept the Exotic Aquatic Plan Control Grant from NHDES. Carried 5-0.

B. Contract Approval for DASH and Herbicide Treatment for removal of milfoil at Ottarnic Pond and Robinson Pond

Chairman Morin recognized Bill Collins, Vice Chairman of the Conservation Commission. Mr. Collins went on to explain that this is for the contract approval for DASH and Herbicide treatment removal of milfoil at Ottarnic Pond and Robinson Pond. The current contract is Solitude for the chemical treatments and Aqualogic who did the work last year at Robinson Pond. Aqualogic was out on site last year for a couple of days. I was out there and I was able to observe their operation. They seem to do a reasonably good job in harvesting all the plant matter from around the boat launch area and some of the other areas of the pond. The chemical treatments will be pretty intense at Ottarnic this year. They're going to try two different chemicals to try to treat the species out there. But there will be no DASH dives taking place over there. Chairman Morin asked if there were any questions for Mr. Collins. Selectman Roy made a motion, seconded by Selectman McGrath to approve and sign the attached 2020 Contracts for Solitude Lake Management for herbicide treatment for Robinson and Ottarnic Pond not to exceed \$33,977.00 and Aqualogic for DASH work for both Robinson and Ottarnic Ponds not to exceed \$22,600.00. The cost of these contracts will be covered by the NHDES Exotic Aquatic Plant Control Grant at 40% cost match up to \$22,643.00, and the Town portion will be covered through the Conservation Commission Professional Services account (acct. #5586-252). Carried 5-0.

C. Donation Acceptance for Police Comfort Dog, Haven

Chairman Morin welcomed Master Patrol Officer, Jason Downey and Sgt. Roger Lamarche. Officer Downey said that he is here to acknowledge some of the very generous donations from corporations in Town. Bay State Welding donated \$2,500, Mike's Pie's donated \$250.00, American Legion Post #48 donated \$250, Sons of the American Legion donated \$25.00 and Officer Downey's aunt, Paula Downey from Weymouth Massachusetts, donated \$25.00. A total amount of \$3,050.00 Officer Downey said that he was just made aware that Selectman McGrath made a donation as well. He wanted to thank her personally. He went on to list some additional expected donations that the Department will be receiving in the near future. Officer Downey went on to tell the Board that the donations the Department is receiving for Haven are going towards her future vet bills and incidentals such as toys, beds, waste bags etc. Selectman Martin made a motion, seconded by Selectman Martin, to accept the donations in the total amount of \$3,050.00 from the businesses in the community. Carried 5-0.

D. Public Works Request to Advertise for Traffic Technician Position

Chairman Morin recognized Jess Forrence, Director of Public Works. Mr. Forrence went on to explain that when the previous traffic technician was promoted to foreman at the DPW, it created an open position. Mr. Forrence went on to explain that this is a busy position that he would like to get the position posted in house. The position has been in there for twenty years. It's a well-deserved, well-earned position. With the stuff that the Town Engineer has come up with it keeps him quite busy. He'd like to post this in house and fill it in house if all the candidates meet the job description we created, including some of the new traffic stuff but I think we've got a pretty good shot.

<u>Selectman Coutu made a motion, seconded by Selectman Roy to authorize the Public Works Director to post, in house, he position of Traffic Technician. Carried 5-0.</u>

9. REMARKS BY SCHOOL BOARD

Chairman Morin recognized School Board member Gary Gasdia. Mr. Gasdia thanked the Board for having him. He had a few things to inform the Board and public of. First being the "Penguin Plunge" where a large number of students are going to be jumping in the ocean to raise money. It is an annual event where a lot of money is raised. Mr. Gasdia also wanted to remind everyone that the School Deliberative Session will be this Saturday, February 1st at 9:00 a.m. at the Community Center. He also went on to say that he thinks the partnerships between the Schools and the Town have made a lot of progress. He especially wanted to thank Selectman Roy and Mr. Malizia for joining the monthly HCTV show with Mr. Russell.

10. REMARKS BY TOWN ADMINISTRATOR

Mr. Malizia said we've cut the purchase order for the blue light on Lowell Road and Sagamore Bridge intersection. It will probably take a couple of weeks for that to come in. He also explained that there is a hearing tomorrow at the Senate for the bill that was talking about the County Fees. He believes Mr. Michaud is going up to attend.

I also put something on your desk this evening. There's a letter and an invoice to the DOT. Back on the 16th of January we had to go out and take care of Kimball Hill Road. There was an accident. It was very serious. So I think we should bill them. At least send something back that way. I put something on your desk. If this is acceptable I'll have the Chairman sign and send it off. Discussion ensued about the time and cost of fire and police personnel to be on the scene of the accident on 1/16. It was decided that the Mr. Malizia will work with fire and police to find out the cost accrued by the Town and will include that in a revised letter.

11. OTHER BUSINESS/REMARKS BY THE SELECTMEN

<u>Selectman Coutu</u>: Selectman Coutu said apparently the commissioner herself should be coming to Hudson to talk to this Board with Senator Carson. Chairman Morin said, I was going to discuss that under my comments but go ahead if you want to bring it up now while we're talking about it. Selectman Coutu said well, I just did. The Commissioner of DOT is coming to Hudson to discuss with us. I know what is going to happen about the check because I already had discussions with the Deputy Commission about the check but as you're aware Mr. Chairman, this is nothing new. This is repetitive year after year after year we call

them and guess what the excuse is always the same. We don't have enough truck drivers to man all the plows and I made it very clear to the Deputy Commissioner. You need to come up with something better because this is what you tell us every year. And one year, I believe it was like four years ago, the trucks were parked by Cookies in the parking lot and the road was loaded with snow and cars were slipping and we had to call them to get somebody down here to wake these guys up to tell them they're supposed to be plowing, not parked at Cookies having coffee and smokes. And that's what they did. They had to send out of Bedford, which I think is where their office is, they had to send a supervisor down here to tell them to get the trucks out of the parking lot they had a complaint. So every year it's basically we don't have enough truck drivers. That's the excuse they use in the summer sometimes as well for road clean ups. Oh we don't have enough people or they cut our budget. I'm so sick of hearing it and they were upset at me because I had sent Governor Sununu a picture of the vehicle on its roof and something to the effect thank you governor, this guy might have lost his life because our state didn't plow their road. And they said you didn't do that but I said yeah, that's exactly what I did. So, I hope we have a response from the Commissioner so she can know it's not just one or two of us complaining. We represent the Town and I think we're all in accord that if they're supposed to be plowing the road, get the plows out and get it done.

Chairman Morin said, you're all familiar with the incident we're talking about. What I got I had one of our legislators and Senator Carson actually both contacted me and they both had contacted the Deputy Commissioner. In the email that was written back to the State I don't know what the problem is. The Town roads were worse than our roads. Which, that never happens. Selectman Coutu said that was the Deputy Commissioner. The person he spoke to at our level at the Bedford office said I went down there to look at the incident and I noticed that the roads in Hudson were worse than our road. I was livid when I read that in my email. That our roads were worse. I've never heard anyone say that Hudson roads are bad. They're the best around. They're not compared to the State for sure. Chairman Morin said okay, I will speak to Senator Carson. I just wanted to make sure I talked to everyone tonight before we did that. She said she would set up the meeting and she asked if we'd invite the Chiefs that night also and we will get that. We'll do it at one of our workshops.

<u>Selectman Martin:</u> Mr. Gasdia said it all. We're going to be there on Saturday at 9:00 a.m. Come down and have coffee and donuts with us and then we'll have a meeting. A productive meeting I hope. Hopefully we don't go into the wee hours of the day and then our Deliberative Session and that's all I have.

<u>Selectman Roy:</u> Just a couple of things. I'll reiterate, the School Deliberative Session is on the first of February at 9:00 a.m. in the Community Center. Town Deliberative Session is on February 8th at 9:00 a.m. in the Community Center and the Presidential Primary is on February 11th at the Community Center. The Community Center is going to be a very busy place. And the polls are open 7:00 a.m.-8:00 p.m.

<u>Selectman McGrath:</u> I just have one thing. Reminding everyone that is watching this meeting that the Police Department is having their open house tomorrow evening from 6-8PM and I would encourage all of you that are interested and plan to vote in the election, and hopefully favorably for the expansion of the Police Department, to take the opportunity to tour and see what the conditions are there.

<u>Selectman Morin:</u> Speaking of the polls, there will be a group touring the Memorial School tomorrow to plan out how things will go for the presidential election. On the 7th we're going to Nashua to meet with the mayor to discuss the train station.

12. NONPUBLIC SESSION

Selectman McGrath made a motion, seconded by Selectman Roy to go into non-public meeting session under RSA 91-A:3II (b) the hiring of any person as a public employee, RSA 91-A:3, II (a) strategy or negotiations with respect to collective bargaining, and RSA 91-A-2, II (d) consideration of the acquisition, sale or lease or real or personal property, which, if discussed in public, would likely benefit a party or parties whose interest are adverse to those of the general community. Chairman Morin asked for a roll call vote. Motion carried 5-0.

Nonpublic Session was entered at 7:35 p.m., thus ending the televised portion of the meeting. Any votes taken upon entering open session will be listed on the Board's next agenda. The public was asked to leave the room.

Chairman Morin brought the meeting back into open session at 8:21 p.m.

Motion by Selectman Coutu, seconded by Selectman Roy, to deny the Step 2 Grievance filed by the Hudson Public Works Union, AFSCME Local 1801 for the Class Action Hours of Work and Overtime Double Time. Carried 5-0.

Motion by Selectman Martin, seconded by Selectman Coutu, to hire Raymond Abair for the position of Inspector in the Fire Department at the contracted salary of \$24.07 per hour (step 1). This agreement will be a non-exempt position in accordance with the Hudson Support Staff Union, AFSCME Local 1801 as recommended by the Fire Chief. Carried 5-0.

Motion by Selectman McGrath, seconded by Selectman Roy, to accept the offer, in the amount of \$40,000, from 4NH Homes LLC to purchase Tax Deeded property located at 151 Robinson Road.

13. ADJOURNMENT

<u>Selectman McGrath made a motion to adjourn at 8:23 p.m. This was seconded by Selectman Roy. Motion carried 5-0.</u>

ecorded by HCTV and transcribed by Jill Laffin, Executive Assistant.
avid S. Morin, Chairman
ara Roy, Vice-Chairman
oger E. Coutu, Selectman
arilyn E. McGrath, Selectman
orman G. Martin, Selectman



TOWN OF HUDSON

Engineering Department

12 School Street • Hudson, New Hampshire 03051 • Tel: 603-886-6008 • Fax: 603-594-1142



INTEROFFICE MEMORANDUM

TO: Steve Malizia, Town Administrator

CC: Board of Selectmen

FROM: Elvis Dhima, P.E., Town Engineer

DATE: January 22nd, 2020

RE: Hudson Water Utility Rules and Regulation Revision

Mr. Malizia,

The Engineering Department with the assistance of the Water Utility staff has undertaken a much needed and necessary update of the Hudson Water Utility Rules and Regulation Revision.

The intent of this project is update the above and incorporate all the construction specifications, procedure and protocols that we currently follow in accordance with the most resent industry standards. If approved, the new format will create a one stop shop for all the requirements, fees, regulations and permits related to Hudson Water Utility.

Below is summary of the proposed changes:

- 1. Updating Schedule of Rates and Fee (Exhibit 2)
- 2. Updating Water Service Application for Residential (Exhibit 3)
- 3. Updating Water Service Application for Non- Residential (Exhibit 4)
- 4. Incorporating Policies & Procedure for Public & Private Fire Hydrant (Exhibit 6)
- 5. Incorporating Drainlayer License Application (Exhibit 7)
- 6. Incorporating Temporary Water Meter Permit Application (Exhibit 8)
- 7. Incorporating Water Construction Details (Exhibit 9)
- 8. Incorporating Water Line Extensions Application (Exhibit 10)
- 9. Incorporating Water Line Extension Acceptance Application (Exhibit 11)
- 10. Revisions to state minimum service size for residential is 1 inch versus 3/4 inch.
- 11. Incorporate Section 8, Construction of Water Mains and Services requirements.
- 12. Revising Service Fees.

First Motion:

To accept the Revised Hudson Water Utility Rules and Regulations, as recommended by the Town Engineer, Director of Public Works , Water Utility Department and Municipality Utility Committee.

Second Motion

To review and revise Hudson Water Utility Rules and Regulations, if necessary, no later than 2025, as recommended by the Town Engineer, Director of Public Works, Water Utility Department and Municipality Utility Committee.



TOWN OF HUDSON

Engineering Department

12 School Street • Hudson, New Hampshire 03051 • Tel: 603-886-6008 • Fax: 603-594-1142



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PAGE 1

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TOWN CODE: CHAPTER 274

TOWN OF HUDSON

WATER UTILITY

Rules and Regulations

Public Hearing:	
Recommended by MUC	
Approved by BOS	

TOWN CODE: CHAPTER 274

TOWN OF HUDSON

WATER UTILITY

Rules and Regulations

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TOWN CODE: CHAPTER 274 TOWN OF HUDSON WATER UTILITY

Rules and Regulations

I. AUTHORITY:

- A. Whereas RSA 38:4 authorizes the town to establish ownership of a water system through the annual or a Special Town Meeting, and;
- B. Whereas the Town on January 13, 1998 did hold a Special Town Meeting through which the acquisition of the Water System from Consumers New Hampshire Water Company was approved by a greater than 2/3 majority, and;
- C. Whereas, NH RSA 38:26 (1) authorizes a municipality through its Board of Selectmen to adopt such ordinances and bylaws relating to the water system or structures as required for proper maintenance and operation, which includes the authority to create a Water Utility Committee with duties prescribed by the Board of Selectmen, and;
- Whereas on September 13, 2004 the Board of Selectmen adopted Ordinance 04-03 & 04-05, which establishes a Water Utility Committee (WUC). On May 8th, 2013 Sewer and Water Utility Committees were consolidated into a single Municipality Utility Committee, Exhibit I.
 - 1. The MUC consists of five full members:
 - a. <u>Four</u> of whom reside in Town and who reside at dwellings either serviced by the sewer/water system or within sewer districts established by the Town, or own real estate which is serviced by the sewer/water system or situated in a sewer district.
 - b. One of whom resides in Town and may reside in a dwelling or an area not serviced by the sewer.
 - c. A Selectmen may be appointed as liaison but not as a voting member.
 - d. The MUC may also have an alternate member who shall meet the qualifications described in a. above.
 - 2. Appointments:

a.	Are made by the Selectmen.	Each appointment is for a three-year period.
	Terms of office are set up on	a staggered basis.

3. Responsibilities:

- a. Establish and oversee policies and procedures for the Sewer and Water Utility.
- b. Process, review and make recommendation to Board of Selectmen relative to:
 - Annual budget
 - Abatements
 - Use of sewer/water capital assessment accounts
 - Sewer and water rate.
- c. Oversee and review:
 - Records of billings, income and expenditures, at least quarterly
 - Information appearing on sewer and water utility bills
 - Formats of forms being used by Sewer and Water Utility.
- d. General oversight of sewer and water utility operations.
- 4. Public meetings held at least once per month. Notice of meetings must contain date, time and meeting place.
- 5. Ultimate responsibility and authority for the sewer and water utility resides with Board of Selectmen.
- E. Therefore, these rules and regulations are adopted on this ______day of 2020 by the Board of Selectmen for the Hudson Water Utility.

II. **DEFINITIONS**:

Abatement: A reduction or elimination of a continuing charge.

<u>Air Gap</u>: The unobstructed vertical distance through the free atmosphere between the lowest opening from any pipe or faucet supplying water to a tank, plumbing fixture, or other device and the flood rim of said vessel.

<u>Auxiliary Water Supply</u>: Any water supply on or available to the premises other than the approved public potable water supply.

AWWA: American Water Works Association.

<u>Backflow</u>: The flow of water or other liquids, mixtures or substances under pressure into the distributing pipes of a potable water supply system from any source or sources other than its intended source.

<u>Backflow Prevention Device</u>: A device or means designed to prevent backflow or siphonage.

<u>Back-Siphonage</u>: The flow of water or other liquids, mixtures or substances into the distributing pipes of a potable water supply system from any source other than its intended source caused by the sudden reduction of pressure in the potable water supply system.

<u>Customer</u>: The word "customer" where used herein shall mean the person or entity actually using the water, whether owner, tenant, lessee, assignee or other.

<u>Containment</u>: The installation of any approved backflow prevention device at the water service connection to any customer's premises, or the installation of an approved backflow prevention device on the service line leading to and supplying a portion of a customer's water system where there are actual or potential cross-connections which cannot be effectively eliminated or controlled at the point of cross-connection.

<u>Corporation Stop:</u> The sole purpose of a corporation stop is to allow for the installation of a new water service line without interrupting water main pressure.

<u>Contamination</u>: An impairment of the quality of the potable water by sewage, industrial fluids or waste liquids, compounds or other materials to a degree which creates an actual hazard to the public health through poisoning or through the spread of disease.

<u>Cross-Connection</u>: Any physical connection or arrangement of piping or fixtures between two otherwise separate piping systems one of which contains potable

water and the other potentially non-potable water or fluids of questionable safety, through which, or because of which, back-flow or back-siphonage may occur into the potable water system.

<u>Cross-Connection Controlled</u>: A connection between a potable water system and a non-potable water system with an approved backflow prevention device properly installed that will continuously afford the protection commensurate with the degree of hazard.

<u>Curb Stop:</u> This is typically the first (and only) valve installed downstream from the corporation stop, and the only valve designed to control flow of water to a building.

<u>Licensed Drainlayer:</u> Anyone who is required to work on water mains and/or water service lines in a public or private right of way connecting to the Town of Hudson Water Utility and has obtained a license with the Town.

<u>Double Check Valve Assembly</u>: An assembly of two independently operating approved check valves with tightly closing shut-off valves on each side of the check valves, plus properly located test cocks for the testing of each check valve.

<u>Health Hazard</u>: The term is derived from an evaluation of the potential risk to public health and the adverse effect of the hazard upon the potable water system.

<u>Health Hazard (High Hazard)</u>: Any condition, device, or practice in the water supply system and its operation, which could create, or, in the judgment of the Hudson Water Utility, may create a danger to the health or wellbeing of the customer.

<u>Hydrant</u>: A private or public fixture in a public or private street with at least a nozzle.

<u>Hudson Water Utility</u>: The Town of Hudson Water Utility or its authorized agent(s) as directed by the Hudson Board of Selectmen who are the Water Commissioners.

<u>Industrial Fluids System</u>: Any system containing a fluid or solution which may be chemically, biologically or otherwise contaminated or polluted in a form or concentration such as would constitute a health, system, polytonal or plumbing hazard if introduced into an approved water supply.

<u>Main</u>: The pipe owned by the Hudson Water Utility, in a public right-of-way or easement used to convey water from one point in the water distribution system to another.

Municipality Utility Committee: The advisory Committee of the Water and

Sewer Utility, consisting of five members.

Occupant: One who has certain legal rights to or control over the premises occupied. These are further defined as non-owner occupant and owner.

<u>Plumbing Hazard (High Hazard)</u>: A plumbing type cross-connection in a consumer's potable water system that has not been properly protected by a vacuum breaker, air-gap separation, or backflow prevention device. Unprotected plumbing types cross-connections are considered to be a health hazard.

<u>Pollution</u>: Means the presence of any foreign substance (organic, inorganic, or biological) in water which tends to degrade its quality so as to constitute a hazard or impair the usefulness or quality of the water to a degree which does not create an actual hazard to the public health but which does adversely and unreasonably affect such waters for domestic use.

<u>Pollutional Hazard (Low Hazard)</u>: An actual or potential threat to the physical properties of the water system or to the potability of the public or the consumer's potable water system but which would constitute a nuisance or be aesthetically objectionable or could cause damage to the system or its appurtenances, but would not be dangerous to health.

<u>Pressure Vacuum Breaker</u>: A device containing one or two independently operating loaded check valves and an independently operating loaded air inlet valve located on the discharge side of the check or checks.

<u>Reduced Pressure Backflow Device</u>: An assembly of two independently operating approved check valves with an automatically operating differential relief valve between the two check valves, tightly closing shut-off valves on either side of the check valves, plus properly located test cocks for the testing of the check and relief valves.

<u>Service Agreement:</u> A legally enforceable contract between the Hudson Water Utility and the (owner, consumer, customer) in which the Hudson Water Utility agrees to provide certain services or products to the (owner, consumer, customer) in exchange for the payment of certain fees.

<u>Service Area</u>: The geographical area incorporated as the Town of Hudson, NH.

<u>Service Line</u>: A pipe and appurtenances used to convey water from a main to a customer. The service line ends at the customer's side of the meter.

<u>Service</u>: A service is a separate account consisting of a household of one or more people, stores, garages, laundries, or in the opinion of the Hudson Water Utility whatever constitutes a service.

Shall: Mandatory

<u>Town</u>: The Town of Hudson, New Hampshire.

<u>Water, Potable</u>: Water form a source, which has been approved for human consumption.

<u>Water, Non-potable</u>: Water that may not be safe for human consumption or which is from a questionable source.

III. ADMINISTRATION:

A. <u>SERVICE AGREEMENT</u>:

- A. The amount of all fees and rates are listed in Exhibit #2 Schedule of Rates and Fees of the Hudson Water Utility and is part of these Rules and Regulations.
- B. No customer or owner shall use, or cause to be used, any water from the distribution system operated by the Hudson Water Utility without a Water Service Permit application approved by the Hudson Water Utility or its authorized agent.
- C. An application for Water Service Permit shall be made, in writing, by either the owner, occupant, or a Licensed Drainlayer contractor. If the rendering of service requires the non-owner occupant of the premises to install a new service pipe, the owner of the premises must cosign the application. Whether or not a signed application is made by the customer and accepted by the Hudson Water Utility, the rendering of service by the Hudson Water Utility and its use by the customer shall be deemed a contract between the parties and subject to all ordinances and regulations of the Hudson Water Utility. If application is made by an agent for the customer, a copy of the agent's authorization by the customer shall be filed with the application:

Exhibit # 3 Water service application (residential). Exhibit # 4 Water service application (non-residential).

B. METERS:

- 1. <u>Use of Meters</u> All water services shall be metered, except service used only for fire protection, although such services may be metered at the Hudson Water Utility discretion and at the customer's expense.
- 2. <u>Size of Meter</u> The size of the meter shall be determined by the HUDSON WATER UTILITY, using AWWA Manual <u>Sizing Water Service Lines and Meters</u> (M 22).

- 3. Meter Setting The customer shall provide a clean, dry, warm and accessible place for the installation of the meter, as near as possible to the point of entrance of the service pipe within the building. The meter horn will be the responsibility of the custumer. This will be installed with a shut-off valve at each end by a licensed plumber (or the customer where allowed by Town building code). The meter will be installed by the Hudson Water Utility. The expense of the installation shall be borne by the customer with materials approved by the Hudson Water Utility. The meter horn and fittings must be satisfactorily inspected by the Hudson Water Utility at the time the meter is installed.
- 4. <u>Meter Boxes</u> When it is necessary to locate the meter in an underground box or vault, the customer shall bear the expense of same. Any location or relocation of such underground box or vault shall be at the customer's expense. Use of an underground box or vault must be approved by the Hudson Water Utility.
- 5. <u>Repairs</u> Meter repairs or replacements necessitated by ordinary wear will be done and paid for by the Hudson Water Utility; those caused by freezing, hot water or by other acts or omissions not under the control of the Hudson Water Utility shall be completed by the Hudson Water Utility and paid for by the customer.
- 6. <u>Auxiliary Meters</u> If additional or auxiliary meters are desired by the customer for showing sub-division of the supply or for site construction they shall be furnished, installed and maintained at the customer's expense. Auxiliary meters shall not be connected through a fire hydrant. Water charges cannot by lease, contract, agreement or otherwise be transferred by a customer to any person, firm, cooperative, corporation, partnership or tenant for the purpose of relieving the customer for payment of water charges.
- 7. Non-Registering Meters If a meter is found which does not register, the bill for the entire period of non-registration since the last known valid reading, shall be based upon information recorded prior to or subsequent to the period of non-registration, and any other pertinent information supplied by the customer or known to the Hudson Water Utility.
- 8. Testing Meters shall be tested before installation by the Hudson Water Utility. Thereafter, all meters will be tested as determined necessary by the Hudson Water Utility. No meter will be permitted to remain in service if the error registration exceeds 3%. Meters will be tested at the request of a customer and shall require a deposit equal to the cost of the meter test. If the meter is found outside of the acceptable limits the deposit shall be refunded to the customer and the cost for the last billing period adjusted in proportion to the error in registration of the meter.

- 9. <u>Replacement of Frozen Meters</u> Replacement of frozen meters shall result in the customer being charged such costs as the Hudson Water Utility incurs in replacing the meter.
- 10. Meters, remote readers and seals: These items shall not be removed except by or under the supervision of the Hudson Water Utility personnel. Only Hudson Water Utility authorized personnel may remove or replace seals, which if broken may indicate the meter, has been tampered with.
- 11. The Hudson Water Utility is not responsible for leaks past the curb stop. Water passing through a meter is considered to be consumed.
- 12. No person is allowed to furnish water to another person, family or business without the consent of the Hudson Water Utility. Any person violating this rule may be charged a full rate for each violation plus appropriate fee.
- 13. No alteration shall be made to any service or equipment under the authority of the Hudson Water Utility, except by authorized agents of the Hudson Water Utility. No plumber, consumer, or other person not authorized by the Hudson Water Utility shall attempt to shut off the supply of water at the curb stop without the express consent of the Hudson Water Utility.
- 14. <u>Rights of Access</u>: Agents or representatives of the Hudson Water Utility may enter the premises of customer at all reasonable times for the purpose of examining pipes, fixtures, or attachments. They may enter at all reasonable times to read or inspect meter(s).

C. <u>SERVICE LINES</u>:

1. <u>Installation, Ownership and Maintenance</u> – All service lines, including corporation stop, pipe to the curb stop and box, shall be owned and maintained by the Hudson Water Utility. These shall be installed at the expense of the customer unless otherwise agreed to by the Hudson Water Utility. From the curb-stop to the meter horn within the premises served, the service lines shall be installed, owned and maintained by the owner. All installations shall be inspected by the Hudson Water Utility. All installation work shall be done by a Licensed Drainlayer.

<u>For residential units</u>, the installation of the water shut off (curb stop) within the area of the driveway or within any paved surface is strictly prohibited.

For all future services, the lines shall be type K copper or Hudson Water

Utility approved equal and sized as provided by the AWWA Manual, Sizing Water Service and Meters (M22), but in no case less than 1 inch nominal diameter.

For new installations, or re-installations of service lines, only one unit shall be supplied through one service line. Where more than one unit (existing) is supplied through one service line and under control of one curb-stop, any violation of the rules of the Hudson Water Utility by any of the customers or consumers so supplied shall be deemed a violation by all, and the Hudson Water Utility may take such action as could be taken against a single customer, or consumer, except that such action shall not be taken until the customer(s) who is not in violation of the Hudson Water Utility rules has been given reasonable opportunity to attach said service pipe to a separately controlled service line, at said customer's expense.

All piping shall be below frost level or otherwise protected from freezing and shall be so arranged as to permit draining whenever necessary.

- 2. Right to shut off water: The Hudson Water Utility may, at any time, shut off water for the purpose of making repairs or changing its piping system or for any other necessary purpose; it may also shut off water upon the failure of the customer to observe its rules and regulations. The Hudson Water Utility shall not be liable for any damage caused by so doing nor for any variation in pressure from any cause, nor shall any customer be entitled to any discount or rebate for reason thereof. It is understood, however, that wherever practicable, the Hudson Water Utility shall give the customers notice of its intentions to shut off water. The Hudson Water Utility further reserves the right to restrict the use of water whenever the public emergency requires.
- 3. <u>Joint Use of Service Pipe Trench</u> No service pipes shall be laid in the same trench with a gas pipe, sewer pipe or any other facility of a municipal or public utility, nor within five (5) feet of any open excavation or vault. Sewer pipes shall have a minimum horizontal separation of 10-feet. If it is not possible to maintain the required 10-feet of separation, the water service line shall be placed as far from the sewer line as possible and a minimum of 18 inches above the sewer line. Gas pipes shall have a minimum horizontal separation of 5-feet.
- 4. <u>Temporary Service Connection</u> Temporary service is one installed to any building or trailer not placed on a permanent foundation, to a construction site or for any other temporary use. The entire cost of installation from the nearest available main, and maintenance of the service including any trench backfill or patch, shall be at the customer's expense. Application for temporary water service shall be in accordance with Section III.A of these regulations. No fire hydrant shall be used for temporary service connection.

- 5. Thawing When it becomes necessary to thaw a frozen service pipe the Hudson Water Utility will do so at the customer's expense. If the location of the freeze is within the Hudson Water Utility owned portion of the service said expense will be credited to the customer. The Hudson Water Utility will have no responsibility for any consequential damage as a result of attempting to thaw such pipe.
- 6. <u>Winter Construction</u> Ordinarily, no new service pipes or extensions of mains will be installed during winter conditions (when frost is in the ground) unless the customer agrees to defray all extra expense occasioned by such installation. Winter installation is subject to approval by the Hudson Water Utility.
- 7. <u>Maintenance of Plumbing</u> Customers shall maintain at their own expense the service pipe, plumbing and fixtures within their own premises in good repair, free from leaks and protected from freezing. Failure to do so may result in termination of service. Any relocation of the service pipe on a customer's premises shall be at the customer's expense, and in no event shall the Hudson Water Utility be responsible for any damages resulting there from. Relocations shall be inspected and approved by the Hudson Water Utility.
- 8. Hot water tanks & furnaces All customers having direct pressure hot water tanks and furnaces or appliances shall place proper automatic vacuum and relief valves in the pipe system to prevent any damage to such tanks or appliances should it become necessary to shut off the water on the street mains or service pipe. Service will be provided to such direct pressure installations only at the customer's risk and in no case will the Hudson Water Utility be liable for any damage occasioned thereby.

D. NON-LIABILITY:

- 1. The Hudson Water Utility does not guarantee the consumer a full volume of water or the required pressure necessary to effectively operate sprinkler system or other appliances, or equipment the same being subject to all the variable conditions that may take place in the use of water from the main.
- 2. No consumer shall be entitled to damages, or to have payment refunded, for any interruption of supply occasioned either by accident to any portion of the works, or by shutting off of water for any purpose, or by the stoppage or shortage of supply due to causes beyond the control of the Hudson Water Utility, including without limitation thereof, drought, earthquake, fire or flood, or other natural disaster.
- 3. The Hudson Water Utility will not be responsible for damages caused by dirty water resulting from the opening or closing of any gate, the use of

- any hydrant, the breaking of any pipe, water main flushing, or any other cause due to operation of the water system.
- 4. The Hudson Water Utility assumes no liability for conditions, which exist in consumer's pipes and cause trouble coincident to or following the repairs of any main pipe, service pipe, meter, or other appliance belonging to the Hudson Water Utility.
- 5. The Hudson Water Utility reserves the right at any time without notice to shut off the water in the main for the purpose of making repairs, extensions or for other necessary purposes. Persons having boilers or other appliances on the premises depending on the pressure in the pipes to keep them supplied with water are hereby cautioned against danger from these sources, and are required to provide at their own expense, suitable safety appliances to protect themselves against such danger. In any event, it is expressly stipulated that the Hudson Water Utility will not be liable for any damage resulting from water having been shut off, either through accident or necessity, but shall only be liable for injury or damage resulting from a failure to use reasonable care during such shut off.

E. TAMPERING:

All curb stops, valves, hydrants, meters, mains, services, etc., which are the property of the Hudson Water Utility, shall not be opened, or closed, or tampered with in any way by any person other than an authorized employee of the Hudson Water Utility or person authorized by the Hudson Water Utility. Anyone violating this provision shall be charged and shall pay all costs incurred in rectifying the tampering and any and all other damages resulting there from.

F. CROSS-CONNECTION CONTROL:

- 1. Under Public Law 93-523, the Safe Drinking Water Act of 1974, and New Hampshire State Regulations Hudson Water Utility has the primary responsibility for preventing water from unapproved sources, or any other substances, from entering the public potable water system.
- 2. <u>Purpose</u>: The purpose of this cross connection regulation is:
 - a) To protect the public potable water supply of the area served by the Hudson Water Utility from the possibility of contamination or pollution which could backflow or back-siphon into the public water supply system; and
 - b) To promote the elimination or control of existing cross-

connections, actual or potential, between its customer's in-plant potable water system(s) and non-potable systems, plumbing fixtures and industrial piping systems; and

c) To provide for the maintenance of a continuing program of cross-connection control which will systematically and effectively prevent the contamination or pollution of all potable water systems by cross-connection.

3. <u>Responsibility</u>:

The Hudson Water Utility shall be responsible for the protection of the public potable water distribution system from contamination or pollution due to the backflow or back-siphonage of contaminants or pollutants through the water service connection. If, in the judgment of the Hudson Water Utility, an approved backflow prevention device is required, the Hudson Water Utility shall give notice to said customer to install such an approved backflow prevention device at each service connection to his premises. The customer shall, within five (5) business days, install such approved device or devices at their own expense. Failure, refusal or inability on the part of the customer to install said device or devices within five business days shall constitute grounds for discontinuing water service to the premises until such device or devices have been properly installed.

4. Water System:

- a) The water system is considered to be made up of two parts: The Hudson Water Utility system and the customer's system.
- b) The Hudson Water Utility system shall consist of the source facilities and the distribution system; and shall include all those facilities of the water system under the complete control of the utility, up to and including the curb stop.
- c) The customers system shall include those parts of the facilities beyond the curb stop which are utilized in conveying delivered domestic water to points of use, except the meter and remote reader which shall remain the property of the Hudson Water Utility.

5. Policy:

a) No water service connection to any premises shall be installed or maintained by the Hudson Water Utility unless the water supply is protected as required by New Hampshire State Law and this Regulation.

- b) No cross connection between the water system and any potable or non-potable supply shall be allowed unless protected by a system designed for this purpose. Design and installation will be at the customer's expense. Any such connection must be approved by the Hudson Water Utility.
- c) No connection capable of causing back-flow between the water supply system and any plumbing fixture, device, or appliance or between any waste outlet or pipe having direct connection to waste drains will be permitted. If the Hudson Water Utility discovers such a connection, service will be discontinued immediately.
- d) An approved protective device shall be installed, at the customer's expense, wherever an approved cross-connection of water systems exists and/or where, in the opinion of the Hudson Water Utility, a potential threat to the potability of the water system can be shown to exist.
- e) No interconnection with other systems or wells shall be made.
- f) Service of water to any premises shall be discontinued immediately by the Hudson Water Utility if a Backflow Prevention Device required by this Regulation is not installed, tested and maintained, or if it is found that a Backflow Prevention Device has been removed, bypassed, or if an unprotected cross-connection exists on the premises. Service will not be restored until such conditions or defects are corrected.
- g) The system must be open for inspection at all reasonable times to authorized representatives of the Hudson Water Utility to determine whether cross-connections or other structural or sanitary hazards, including violations of this regulation exist. When such a condition becomes known, the Hudson Water Utility may deny or immediately discontinue service to the premises by providing for a physical break in the service line until the customer has corrected the condition(s) in conformance with all statutes and regulations relating to plumbing and water supplies and the Regulations adopted pursuant thereto. All expenses relating to the disconnection and reconnection shall be at the customer's expense.
- h) An approved Backflow Prevention Device where required shall be installed at the customer's expense on each service line to a customer's water system at or near the property line or immediately inside the building being served; but, in all cases, before the first branch line leading off the service line.

- i) The type of protective device required under these rules and regulations should depend upon the degree of hazard, which exist as follows:
 - 1) Where there are "uncontrolled" cross-connections, either actual or potential, the public water system shall be protected by an approved air-gap separation or an approved reduced pressure principal backflow prevention device.
 - 2) Where there is water or substance that would be objectionable but not hazardous to health, if introduced into the public water system, the public water system shall be protected by an approved double check valve assembly.
 - In the case of any premises where, because of security requirements or other prohibitions or restrictions, it is impossible or impractical to make a complete implant cross-connections survey, the public water system shall be protected against backflow or back-siphonage from the premises by the installation of a Backflow Prevention Device in the service line. In this case, maximum protection will be required; that is, an approved air-gap separation or an approved reduced pressure principal Backflow Prevention Device shall be installed in each service to the premises.
- j) Any Backflow Prevention Device required herein shall be of a model and size approved by the Hudson Water Utility. The term "approved Backflow Prevention Device" shall mean a device that is approved and acceptable to the New Hampshire Department of Environmental Services.
- k) It shall be the duty of the customer at any premise where Backflow Prevention Devices are installed to have certified inspections and operational tests made at least once per year as required under these Regulations.

In those instances where the Hudson Water Utility deems the hazard to be great enough they may require certified inspections at more frequent intervals. These inspections and tests shall be at the expense of the customer and shall be performed by the Hudson Water Utility's personnel or by a certified tester approved by the Hudson Water Utility and approved by the State of New Hampshire. These devices shall be repaired, overhauled, or replaced whenever said devices are found to be defective.

- All industrial, commercial and agricultural establishments attached to the water system will be required to install at the service entrance and immediately downstream of the meter a Reduced Pressure Backflow Device.
- m) All decisions relating to determination of Backflow Prevention Devices will be made by the Hudson Water Utility. Failure to comply with any directive from the Hudson Water Utility will result in termination of service.
- n) All testing and/or maintenance performed on Backflow Prevention Devices by the Hudson Water Utility or its agent will be charged to the owner of the device.

G. PAYMENT FOR SERVICE:

1. <u>Billing</u> for water service shall be rendered periodically (typically monthly) in accordance with the applicable rate schedule Exhibit #2 and are due and payable upon presentation. Unpaid bills may result in liens on the property as provided by New Hampshire law. This lien shall not prevent the Hudson Water Utility from any other means of collection provided by law. Interest shall be charged at the rate specified on the applicable rate schedule on all bills not paid as of due date of the bill. The Hudson Water Utility may render an estimated bill whenever an actual reading cannot reasonably be made.

All bills will be sent to the address entered on the application unless the Hudson Water Utility is notified of a change in billing address by verbal confirmation to the Hudson Water Utility office.

Failure to receive bills will not be considered an excuse for non-payment.

Resolution of dispute between a customer and tenant is the sole responsibility of the customer.

- 2. <u>Deposits</u> In order to protect against loss, a deposit may be required. A temporary customer, may be required to make a cash deposit equal to the estimated cost of the entire temporary use. The customer's deposit shall be credited to their water account.
- 3. <u>Customer Reliability</u> Where there is, or there is proposed to be, more than one occupant of a building supplied with water, the plumbing must be so arranged, or rearranged, so as to permit a separate service for each unit, place of business or abode. Where (1) in the opinion of the Hudson Water Utility, it would be prohibitively expensive or physically impractical to so arrange the plumbing, and (2) the owner of the premises makes application for service and assumes responsibility for payment of all charges for water service rendered to said property, a common service and single meter may at the discretion of the Hudson Water Utility be allowed.
- 4. <u>Penalty for Bad Checks</u> Whenever a check or draft presented for payment of service is not accepted by the institution on which it is written a charge shall be imposed by the Hudson Water Utility.
- 5. <u>Disconnection Policy</u> The Hudson Water Utility reserves the right to disconnect the service of any customer not having his account paid in full within forty-five (45) days of the date of any bill and has a balance over 60 dollars.

Provided, however, The Hudson Water Utility shall not disconnect service to a customer if any part of the service provided accrues to the benefit of one or more parties known by Utility to be residential tenants, unless the Utility gives written notice to the tenants. Such notice shall set forth:

- a) The date on or after which the Utility proposes to disconnect service.
- b) A statement that the reason for disconnection is a dispute between the Utility and the landlord.
- c) A statement that the tenant should contact the landlord for more information.
- d) An address and telephone at which the tenant may contact the Utility in order to make arrangements to maintain service.

The Hudson Water Utility shall refrain from terminating service to the affected premises if so requested by the tenant, provided that the tenant agrees to be responsible for service provided as of the date of the tenant's request. However, the Hudson Water Utility company may continue to list the landlord's past due balance on the tenant's bill, and the lien created pursuant to NH RSA 38:22 shall include any past due charges which accrue after the Utility begins billing the tenant. The Utility shall provide direct service to the person requesting it on terms and conditions applicable to all residential customers.

Immediately upon learning that a tenant has been disconnected without the notice required pursuant to this sub paragraph, the Hudson Water Utility shall reconnect service and may charge a reasonable reconnection fee which may be added to the existing arrearage.

The notice required by this sub paragraph shall be provided to the tenant no less than 7 days in advance of the proposed disconnection, by posting a conspicuously lettered notice on the main entrance door to each building in which service is being terminated. In addition, the Utility shall post the notice on a back door or side door to which the Utility has reasonable access, or in a common area of each building. The Utility, at its option, may notify the tenants in the affected property by mail rather than by posting.

The notice to tenants required by this sub paragraph shall not be required when necessary to avoid danger to life or property, and upon the order of a duly constituted public authority such as police, firefighters, public health officer, and building inspectors.

- 6. Bills for the minimum charges for metered service will be due and payable in arrears: bills for water used above the allowance included in any minimum charge will be due and payable in arrears.
- 7. Bills for private fire service will be rendered monthly in arrears will be due and payable as rendered.
- 8. With respect to the termination of services to customers, Hudson Water Utility will follow the provisions of NH Admin. Code Puc 1203.11 (d), (e), (f) & (h) but, as a municipal entity, it is not bound to observe all of the procedural requirements therein.

9. <u>Bill Disputes</u>:

- a) All questions regarding customer's bills will first be referred to the Water Utility Clerk.
- b) To help determine the reason for a disputed bill amount, the customer may request:
 - 1) A new actual meter reading to confirm usage billed.
 - 2) A meter test by the Hudson Water Utility at the customer's expense, unless the meter proves to be malfunctioning, in which case the testing fee will be refunded and prior charges will be adjusted
- c) If the customer still disputes the amount of the bill, he/she may request an abatement. Abatements must be applied for using the appropriate form (exhibit #5), and are submitted to the Water Utility Clerk for review and recommendation by the MUC and the final decision by the Board of Selectmen as the Water Utility Commission.

H. HYDRANTS:

- 1. Hydrants shall not be used for any purpose other than the extinguishment of fires and for such other purposes as may be agreed to by the Hudson Water Utility and the Hudson Fire Department. In no case shall hydrants be opened by any person other than a Hudson Water Utility employee, member of the Hudson Fire Department, Hudson Public Works Department, or duly authorized representative of the Hudson Water Utility.
- 2. A public fire hydrant is defined as one located on a street, highway, right of way, or municipal property with the approval of the Hudson Fire Department and the Hudson Water Utility.
- 3. If any customer/developer is required by the Fire Department to provide and install a new public fire hydrant on existing or new water main the installation will be done at the expense and risk of the customer/developer.
- 4. New fire hydrants will be requested by the Hudson Water Utility or Fire Department and approved by the Hudson Water Utility after review of sound engineering principles and as recommended by the Hudson Water Utility.

- 5. The Hudson Water Utility will replace damaged or worn fire hydrants at its expense, or at the expense of the party who damages said hydrant.
- 6. Inspections and tests of public hydrants will be made by the Hudson Water Utility at convenient times and reasonable intervals.
- 7. Whenever a change in location, size, type, or permanent removal of fire hydrants is requested by a customer such change will be approved and made by the Hudson Water Utility at the expense of said customer. The Fire Department will review and approve changes.
- 8. All public and private hydrants shall comply with Policies and procedures adopted March 26, 2019, Exhibit 6.

I. PRIVATE FIRE SERVICE:

- 1. The entire cost of installing a private fire service from the main to the property line will be paid by the customer. The customer will bear all costs for replacement of services. All work performed on the customer's premises will be done by the customer at his expense and risk.
- 2. A gate valve controlling the entire supply with post indicator will be placed on the fire service at a location accessible to the Hudson Water Utility.
- 3. The private fire service will be subject to the inspection, test and approval of the Hudson Water Utility and Fire Department before the service is made effective.
- 4. The current NFPA standard will define the design and installation of fire services except as modified by these regulations.
- 5. The customer will notify the Hudson Water Utility and the Fire Department within seventy-two (72) hours after any use of a sprinkler system.
- 6. A detector check valve with a by-pass, along with an approved backflow prevention device will be furnished and installed by the customer in accordance with Hudson Water Utility requirements just inside the building wall or other convenient location on the customer's premises as designated by the Hudson Water Utility.
- 7. Hydrants and other fixtures connected with a private fire service connection may be sealed by the Hudson Water Utility and such seals will be broken only in case of fire or as specially permitted by the Hudson Water Utility. The customer must immediately notify the Hudson Water Utility when a seal is broken.

- 8. No pipe or fixture connected with a private fire service connection served by the Hudson Water Utility will be connected with pipes or fixtures supplied with water from any other source.
- 9. Fire pumps and booster pumps of any nature may be connected only after notification to the Hudson Water Utility and will be constructed in such manner to prevent cross connections and vacuum. Owners and operators of such equipment are liable for any and all damages to Hudson Water Utility or other customer's property during such operations. A low-pressure cut-off device approved by the Hudson Water Utility will be installed at the customer's expense and risk.
- 10. The entire private fire service connection and all its parts located outside the customer's property line forever remain the property of and under the complete jurisdiction of the Hudson Water Utility.
- 11. Tests will be scheduled with approval of the Hudson Water Utility so as to cause the least possible inconvenience to the Hudson Water Utility's other customers.

J. <u>DISCONTINUANCE OF WATER SERVICE:</u>

Service may be discontinued for any of the following reasons:

- 1. Violation of the Rules & Regulations of the Department.
- 2. Misrepresentation in application as to the premises or fixtures to be supplied or the use of the water supplies.
- 3. Use of water for any premises or purpose not described in the application.
- 4. Damaging any service pipe, meter, curb stop or seal, or any appliance of the Department.
- 5. Failure to maintain, in good order, connections, service lines, or fixtures for which the customer or owner is responsible.
- 6. Waste of water through improper or imperfect pipes, fixtures or otherwise.
- 7. Vacancy of the premises by a non-owner without payment will be the owner's responsibility to pay the tenant's bill for all charges and consumption.

- 8. Neglecting to make payments of charges for water service or any other charges against the owner of the premises.
- 9. Refusal of access to premises to inspect, read, maintain or remove meters.
- 10. Refusal to conserve water during periods of restricted supply.
- 11. Failure to pay water bills or charges at a prior location.
- 12. Any cross connection, which would introduce water or any liquid other than that supplied by the Hudson Water Utility into the service line of the Hudson Water Utility.
- 13. The Hudson Water Utility will have the right to stop water supply without notice due to breakdowns or other unavoidable causes, or for the purpose of making necessary repairs, connections, etc. The Hudson Water Utility will make every attempt to give reasonable notice, but will not be liable for any damage or for inconvenience suffered.
- 14. Whenever the customer desires to have his service contract terminated or his water service discontinued, he will so notify Hudson Water Utility. Until such notice is received by the Hudson Water Utility and the Hudson Water Utility has access to remove the meter or obtain the final readings, the customer will be responsible for the payment for all service rendered by the Hudson Water Utility, including charges for meter repairs caused by damage by hot water or freezing or other external causes. A reasonable time after receipt of such notice will be allowed for the Hudson Water Utility to take a final reading of the meter or meters and to discontinue service.
- 15. Discontinuing the supply of water to any premise for any reason will not prevent the Hudson Water Utility from pursuing any lawful remedies provided for in these regulations and by action of law or otherwise for the collection of monies due from the customer.

K. RENEWAL OF WATER SERVICE AFTER DISCONTINUANCE:

When water service to any premises has been terminated for any reason other than temporary vacancy, it will be renewed only after the acceptance of a new application, when the conditions, circumstances or practices which caused the water service to be discontinued are corrected to the satisfaction of the Hudson Water Utility and upon the payment of all charges due and payable by the customer in accordance with the rates, rules and regulations. A payment plan on overdue charges can be arranged, if so desired.

L. CONSERVATION OF WATER – RESTRICTIONS:

When necessary to conserve supply, the Town may restrict or prohibit the use of hand hose, lawn sprinklers and water-cooled air conditioning equipment, or any other use of water.

M. CONDOMINIUMS:

- A condominium project shall be any form of development that comes under the authority of RSA 356:B whether it be of a residential character or otherwise.
- 2. Service to a new development that comes under the heading of condominiums shall be as follows:
 - a) Each user unit shall be served as a separate entity, metered individually and subject to the tariff as related to an individual customer.
 - b) A condominium association that provides water service(s) for the good of the community center or for irrigation shall be considered an individual customer and shall be metered separately and subject to the tariff as it relates to individual customers.

IV. WATER MAIN EXTENSIONS:

A. GENERAL:

Where a request for water service requires the extension of a main, mains, or other facilities from the existing water system, the applicant will submit in writing a request for a main extension and will enter into a main extension agreement with the Hudson Water Utility. The proposed location, size and distance of any proposed main extension must be approved by the Hudson Water Utility and must; (a) conform to the Hudson Water Utility hydraulic system requirements; (b) be sufficiently sized and located so as to meet the Hudson Water Utility's requirements, hydrant requirements and any specific requests from the Town Fire Chief.

B. COSTS FOR WORK:

All costs associated with a main extension project, including legal, engineering, construction, inspection and administrative costs will be borne by the applicant. Construction will include all appurtenances, i.e.: hydrants, "T's" stubs, gates, valves and service lines required.

Surety for 100% of the construction cost is required by the Hudson Water Utility

in the format approved by the Town for developer projects.

C. SPECIFIC REQUIREMENTS:

- A. All main extension plans will be reviewed by the Hudson Water Utility at the applicant's expense.
- B. All main extensions will be constructed in accordance with the specifications of the Hudson Water Utility and under the Hudson Water Utility's inspections.
- C. All water mains, appurtenances, and other facilities comprising the main extension will become the property of the Hudson Water Utility after the Hudson Water Utility requirements are completed to the satisfaction of the Hudson Water Utility.
- D. Typically, all main extensions will be a minimum size of 8 inches in residential areas, and a minimum size of 12 inches in commercial or industrial areas. Main extensions at less than the minimum size must be approved individually in writing by the Hudson Water Utility.
- E. The size of the main shall be determined by Hudson Water Utility in accordance with conditions surrounding the extension, including the possibility of future expansion and fire protection.
- F. Main extensions will include service lines to the front property line for all existing lots along the main extension. These will be installed at the applicant's expense.

G. LOCATION OF WATER EXTENSIONS:

Location of water main extensions (accessibility), to the maximum extent possible, will be located along existing and proposed roadways. Cross-country locations are to be avoided. Layout and locations are subject to the approval of the Hudson Water Utility. All water mains and apparatus must be physically accessible to the Hudson Water Utility maintenance vehicles.

H. RIGHT OF WAY (R.O.W) AND EASEMENTS:

All water mains and appurtenances are to be located in the Right of Way (R.O.W.'s) or easements providing legal access to the Hudson Water Utility. Legal documents providing such must be approved by the Hudson Water Utility

V. BOOSTER STATIONS AND HIGH SERVICE AREAS:

- A. <u>GENERAL</u>: Where a new service(s) or main extension results in pressure variations exceeding the limits of good engineering practice. The Hudson Water Utility shall require any of the following at its discretion: Booster station, booster pump(s) or pressure reducing devices.
- B. <u>BOOSTER STATIONS</u>: Shall be constructed in accordance with the Hudson Water Utility specifications, Exhibit 9, and shall be paid for by the applicant unless otherwise approved by the Hudson Water Utility. These shall be inspected, approved and owned by the Hudson Water Utility.
- C. <u>BOOSTER PUMPS AND PRESSURE REDUCING DEVICES</u>: Shall be installed by a licensed plumber at the applicant's expense and inspected by the Hudson Water Utility.

VI. JUDICIAL ENFORCEMENT REMEDIES:

A. <u>INJUNCTIVE RELIEF</u>:

When the Hudson Water Utility determines that a customer has violated, or continues to violate, any provision of this Regulation, Hudson Water Utility may petition the Hillsborough County Superior Court through the Town's Attorney for the issuance of a temporary or permanent injunction, as appropriate, that restrains or compels the specific requirement imposed by this Regulation on activities of the customer. The Hudson Water Utility may also seek such other action as is appropriate for legal and/or equitable relief, including a requirement for the customer to conduct environmental remediation. A petition for injunctive relief shall not be a bar against, or a prerequisite for, implementing any other action against a customer.

B. CIVIL PENALTIES:

- A. A customer who has violated, or continues to violate, any provision of the regulation, or order issued hereunder, shall be liable to the Town for a maximum civil penalty of \$5,000 per violation, per day, plus actual damages incurred by the Hudson Water Utility.
- B. All charges and penalties shall be collected through civil proceedings brought before the Superior Court.
- C. The Town may recover reasonable attorneys' fees, court costs, and other expenses associated with enforcement activities, including sampling and monitoring expenses, and the cost of any actual damages incurred by the Hudson Water Utility.

- D. In determining the amount of civil liability, the Court shall consider all relevant circumstances including, but not limited to, the extent of harm caused by the violation, the magnitude and duration of the violation, any economic benefit gained through the user's violation, corrective actions by the user, the compliance history of the user, and any other factor as justice requires.
- E. Filing a suit for civil penalties shall not be a bar against, or a prerequisite for, implementing any other action against a user.
- F. The Board of Selectmen may adopt a schedule of fines as appropriate from time to time.
- G. Any person violating any of the provisions of the Regulations shall become liable to the Town for any expense, loss, or damage occasioned by the Town by reason of such violation.

C. <u>CRIMINAL PROSECUTION</u>:

Any customer or user who willfully or negligently violates any provision of the Regulations or any orders or permits issued hereunder shall, upon conviction, be guilty of a violation, punishable by a fine not-to-exceed \$10,000 for each violation. Every separate provision violated shall constitute a separate violation. Every day that a violation occurs shall be deemed a separate violation. Ref. RSA. 38.26

D. NONEXCLUSIVE REMEDIES:

The remedies provided for in the Regulations are not exclusive. The Town may take any, all, or any combination of these actions against a non-compliant user. Further, the Town is empowered to pursue more than one enforcement action against any non-compliant user. These actions may be taken concurrently.

VII. SEVERABILITY:

If any part of these rules and regulations are found to be unenforceable by a court of law, such findings shall not affect the remaining parts, which shall remain in full force and effect.

VIII. CONSTRUCTION OF WATER MAINS AND SERVICES:

8.1 Construction by Licensee

To insure compliance with the foregoing articles and sections of this ordinance, and to facilitate the supervision of the construction, operation and repair of water services and the keeping of records thereof, no person other than those described in this Article shall construct, repair, alter or remove any water, service water connected to or with, or connected directly or indirectly to or into, water system of the Town or intended to connect thus, at some future time, regardless of whether said work is located in a public street or in a public or private land.

8.2 Authorized Parties

- A. The following may, as indicated, construct, repair, alter or remove water mains and services, subject to supervision and approval by the Town Engineer.
 - 1. Regular forces of a contractor employed by the Town operating under orders of the Town Engineer and in the performance of work for the Town.
 - 2. Regular forces of the Town or the New Hampshire Department of Transportation operating under and subject to permit for the particular job issued by the Town Engineer and engaged in the regular operations of the Department of Transportation or in performance of work for the Town.
 - 3. Regular forces of any public utility corporation authorized by State law to construct, maintain and operate pipes or ducts within the public highways within the Town, while engaged in work incidental to the regular structures of said utility company and operating under and subject to the conditions of the permit for the particular job issued by the Town Engineer.
 - 4. Any contractor or person who shall have been duly licensed by the Board of Selectmen to perform work of the type in question during the period provided in such license and when operating under and subject to the conditions of a permit for the particular job issued therefore by the Town Engineer.
 - 5. A contractor who has a Drainlayer's License issued in the Town of Hudson.

8.3 Performance of Work

Each contractor or person shall be responsible for the good faith performance of all work and all materials furnished on work by his employees or agents. No work shall be sublet by a contractor or person under any permit and/or licensed in any manner to a contractor or person divest of full control and responsibility for all parts of said work. Only competent persons shall be employed on work performed under such permit and/or license, and only suitable material conforming to the standard established by the Town Engineer shall be furnished or used on such work.

8.4 Conformance with Requirements

Should the Town Engineer find that any contractor or person has failed to conform to the requirements of these Rules & Regulations and to the conditions of any permit issued thereunder, or that such contractor has not been faithful in the performance of work or furnishing of materials under his license, the Town Engineer may suspend, cancel or revoke such license and/or permit and may extend the suspension of such license and/or permit for such period or limit the activities of such contractor or person in such manner as may appear to be in the public interest after a duly conducted hearing before the Board of Selectmen and upon their direction. Suspension, cancellation or termination of a permit shall not entitle the permittee to any compensation or reimbursement from the Town or its agents for any alleged loss or expense incurred thereby, and licenses and permits shall be issued only on this condition.

8.5 Construction Materials

All water main pipe material and components related to the water main shall be zinc coated and all pipe shall be certified "Made in the USA". In addition, all main pipe shall be wrapped with poly membrane for additional corrosive protection, prior to backfill.

8.6 Permits

Each permit to construct, alter or repair any water main, building water service under this section shall be issued only after an application as hereinbefore provided has been made. It shall state the limit of time within which the work for construction under the permit shall terminate, unless such time limit shall have been extended in writing by the Town Engineer. Permits shall not be transferable or assignable by the permittee.

IX. EFFECTIVE DATE:

These Rules and Regulations shall be its passage, approval, and publication	in full force and effect immediately following , as provided by law.
	_day ofby the Board of Selectmen gh County, State of New Hampshire, at a duly aid Board of Selectmen.
Hudson, NH by Board of Selectmen	
BOS Chairman	
	Attest:

Exhibit 1 Municipality Utility Committee

Adoption of Ordinance 04-03 Creating a Water Utility Committee and Seeking Volunteers

The Hudson Board of Selectmen, at its meeting on September 13, 2004 adopted Ordinance 04-03, establishing a water utility Committee and is seeking applicants to fill the five citizen openings. Members shall reside in Town and in dwelling units served by the water utility. The Committee will be responsible to 1) Oversee the preparation of bylaws, policies, and procedures for the water utility; 2) Make recommendations for and provide overview regarding an annual budget and provide overview of income and expenditures; 3) Make recommendations for a capital improvement plan and provide overview regarding a capital reserve for the water utility; and 4) Provide overview and make recommendations regarding the ongoing administration and operations of the water utility. Final authority for actions by the Water Utility Committee will remain with the Board of Selectmen. (There are two three-year positions; two two-year positions; and one one-year position.) Applications are available in the Town Clerk's Office at 12 School Street, Hudson, NH and must be returned to the Selectmen's Office no later than 12:00 noon on October 6, 2004.

Priscilla Boisvert Executive Assistant

HLN September 24, 2004

PO #SEL 05051

cc:

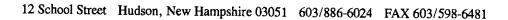
BOS

Town Administrator Town Engineer



TOWN OF HUDSON

Board of Selectmen





Adoption of Ordinance 04-05

The Hudson Board of Selectmen, at its meeting on November 9, 2004 adopted Ordinance 04-05, amending Ordinance 04-03 that established a Water Utility Committee. The amendment allows one member of the utility to reside in a dwelling not served by Town water.

cc:

BOS

Town Administrator

Priscilla Boisvert, Executive Assistant

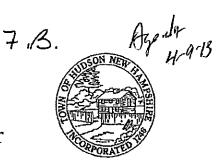
Town Engineer

HLN 3 Dec 04-SEL05097





12 School Street Hudson, New Hampshire 03051



Approved

Stephen A. Malizia, Town Administrator - smalizia@hudsonnh.gov -- Tel: 603-886-6024 • Fax: 603-598-6481

To:

Board of Selectmen

From: Steve Malizia, Town Administrator

Date: March 28, 2013

Re:

Municipal Utility Committee

At their meeting on March 26, 2013, the Hudson Board of Selectmen reviewed language prepared by Town Attorney Buckley that would consolidate the Sewer and Water Utility Committees into a single Municipal Utility Committee. The Board of Selectmen further amended the language in Hudson Town Code Chapters 142 and 270 to allow for a seven (7) member Municipal Utility Committee, of which three (3) members do not have to be served by either Town Water or Sewer. The Board voted to send the changes to Town Code to a public hearing on April 9, 2013. Should the Board of Selectmen vote to adopt these modifications after the public hearing, the following motion would be appropriate:

Motion: To adopt the modifications to Hudson Town Code Chapters, 142 and 270 to combine the Sewer and Water Utility Committees into a seven (7) member Municipal Utility Committee of which three (3) members do not have to be served by either Town Water or Sewer. effective May 8, 2013

Should you have any questions or need additional information, please feel free to contact



TOWN OF HUDSON

Municipal Utility Committee

David Shaw, Chairman

Pat Nichols, Selectmen Liaison

12 School Street Hudson, New Hampshire 03051- Sewer 603-886-6029/ Water 603-886-6002 Fax:603-598-6481

To:

Board of Selectmen

From: David Shaw- Chairman

Municipal Utility Committee

Date: September 28, 2016

Re:

Membership change

On May 14, 2013, the Board of Selectmen appointed all five members of the Water Utility Committee and the five members of the Sewer Utility Committee to the newly combined Municipal Utility Committee. The Municipal Utility Committee was formed with seven members as to keep all of the members of the former two committees.

For the past couple of years, we have had to cancel a number of meetings because we lacked a quorum. We changed to a later start time as a way to attract new members with limited success. We currently have four sitting members and three vacancies.

We respectfully submit a request to the Board to officially change the membership of the Municipal Utility Committee from seven members to five members.

Motion Couty/Routsis to approve the Honicipal Utility committee's request to change their membersty from Seven (7) to five (5) members, carried 50

Exhibit 2

Schedule of Rates & Fees

Town of Hudson Water Utility New Customer Water System Access Fee January 2002

Year	Supply Fee *	Distribution Fee	Combined Total
2001	\$1,500	\$467	\$1,967
2002	\$1,545	\$659	\$2,204
2003	\$1,591	\$851	\$2,442
2004	\$1,639	\$1,043	\$2,682
2005	\$1,688	\$1,236	\$2,924
2006	\$1,739	\$1,428	\$3,167
2007	\$1,791	\$1,620	\$3,411
2008	\$1,845	\$1,812	\$3,657
2009	\$1,900	\$2,004	\$3,904
2010	\$1,957	\$2,196	\$4,153
2011	\$2,016	\$2,388	\$4,404
2012	\$2,076	\$2,580	\$4,656
2013	\$2,139	\$2,772	\$4,911
2014	\$2,203	\$2,964	\$5,167
2015	\$2,269	\$3,156	\$5,425
2016	\$2,337	\$3,348	\$5,685
2017	\$2,407	\$3,540	\$5,947
2018	\$2,479	\$3,732	\$6,211
2019	\$2,554	\$3,924	\$6,478
2020	\$2,630	\$4,116	\$6,746
2021	\$2,709	\$4,308	\$7,017
2022	\$2,790	\$4,500	\$7,290
2023	\$2,874	\$4,692	\$7,566
2024	\$2,960	\$4,884	\$7,844
2025	\$3,049	\$5,076	\$8,125
2026	\$3,141	\$5,130	\$8,271
2027	\$3,235	\$5,185	\$8,420
2028	\$3,332	\$5,239	\$8,571

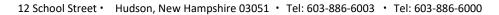
^{*} Supply Fee is adjusted by 3% per year for inflation.

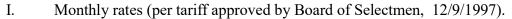
The above fees are based on a 300 gpd average use. Fees for other water uses are adjusted proportionally.



TOWN OF HUDSON

SCHEDULE OF RATES & FEES





A. Usage

1. Fixed meter size rate:

Meter size	Monthly rate
5/8"	\$10.69
3/4**	\$20.58
1"	\$32.21
1 ½"	\$65.49
2"	\$105.59
3"	\$205.82
4"	\$322.10
6"	\$644.19
8"	\$804.57
10"	\$911.49

- 2. Volume Charge: \$3.30 per 100 cubic feet (CF).
- 3. Fire Service.

Service Size	Monthly Rate
2"	\$11.94
3"	\$26.87
4"	\$47.77
6"	\$107.50
8"	\$191.10
10"	\$298.58
12"	\$429.97
Private hydrant	\$77.63
Public hydrant	\$16.20

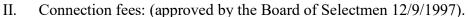
Note: the fire service size is the pipe diameter at the building or service entrance as determined by the Town Engineer or designated agent.



TOWN OF HUDSON

SCHEDULE OF RATES & FEES

12 School Street • Hudson, New Hampshire 03051 • Tel: 603-886-6003 • Tel: 603-886-6000



- A. Application processing and service connection inspection @ \$100.00.
- B. Meter purchase and installation:

Size	Cost
5/8"	\$350.00
3/4**	\$450.00
1"	\$500.00
1 ½"	\$750.00
2"	\$1,000.00
3"	\$1,000.00 (plus parts)
>3"	To be determined @ time of application

C. Inspection fee.

For water main installation and fire service installation - \$5.00/L.F.

- III. New customer water system access fee approved by the Board of Selectmen (January 2002). (see schedule attached)
- IV. Hydrant painting, @ \$170.00/ea.
- V. Backflow permit fee @ \$15.00
- VI. Temporary water meter fee @ \$200/ each (3 available, first come first serve, plus \$3/day and usage)
- VII. Service Charges

After Hours Service Fee @ \$250.00

Backflow Test* @ \$95

Backflow Re-test @ \$95

Disconnection Fee @ \$125

Installation / Removal Seasonal Meter @ \$95

Meter Test** @ \$95

Turn Water On/ Off at the curb @ \$95/\$95

General Service Fee @ \$95 (minimum)

- *Refers to the Policy and Procedure already in effect for Backflow Prevention Devices
- **A meter test by the Hudson Water Utility at the customer's expense, unless the meter roves to be malfunctioning, in which case the testing fee will be refunded and prior charges will be adjusted

Exhibit 3

Water Service Application - Residential





2 School Street · Hudson, New Hampshire 03051 · Tel: 603-886-6000 · Fax: 603-816-1291

TOWN OF HUDSON WATER UTILITY

WATER SERVICE APPLICATION (RESIDENTIAL)

Below are the step by step procedures for attaining service. Should you have any questions, please call the Engineering Division at 886-6008.

The Town has contracted with WhiteWater to assist with the installation of meters, and inspections. Once an application and the permit fee have been submitted to the Town, the application will be sent to WhiteWater for review. The application fee is defined on Exhibit A. There is also a one-time Water Access Fee that is required for all new connections to the town water main. The Access Fee is set annually, as per the "New Customer Water System Access Fee" schedule attached, and must be paid prior to service turn-on and/or issuance of a Certificate of Occupancy.

STEP BY STEP PROCEDURES FOR OBTAINING SERVICE

NOTE: A Drainlayer's License is required for all work on water mains, service lines and related work in public or private right-of-ways connecting to the Town of Hudson Water Utility.

- 1. Please complete both the Water Connection Permit Application and Water Demand Form. All fees are required to be paid in full prior to service.
- 2. Complete the enclosed plan by showing the existing water and sewer mains, location of the proposed water and sewer services and distance from main to house, and all applicable dimensions including building ties to the curb stop.
- 3. Submit the application, water demand form, and plan with the fees to the Town. Payments can be made via cash or check, made payable to: Town of Hudson.
- 4. The Town will review the application, and you will be contacted when the review process is completed and approved.
- 5. It is the applicant's responsibility to hire a contractor to do the installation of the water service line in accordance with Town service specifications, and pay for all water line installation costs. Copies of the appropriate service details can be found online by viewing the Water Service Specifications link, or obtained in the Engineering Department of Town Hall.

A street opening permit may be required. Please contact the DPW for application and processing at 603-886-6018.

Exhibit 3-Residential Water Service Application-Instructions.DOCX





12 School Street ' Hudson, New Hampshire 03051 ' Tel: 603-886-6000 ' Fax: 603-816-1291

Town of Hudson Water Utility

The water service must be inspected by one of the Town's technicians or agents prior to backfill. Inspections can be scheduled by calling the Engineering Department at 603-886-6008. It is your responsibility to fence any trenches that must be left open until inspection.

6. Your final step to receiving water service involves the installation of the water meter, remote reader, and turning on the water service. Please contact WhiteWater at 603-324-8318 to have your meter installed. Note that it is the responsibility of the contractor to provide meter fittings for 5/8", ¾" and 1" meters in addition to the wire installation, as per the specifications shown on Sheet 1. A list of suppliers for the meter fittings and wire is shown on Appendix X. Fittings and wire for 1.5" and 2" meters will still be provided by the Town of Hudson through WhiteWater. A remote wire will be installed from the inside meter location to the outside of your building before the 1.5" and 2" meter can be set. If any part of this wire needs to be installed behind sheet rock or in an area that will not be accessible to WhiteWater at the time the meter is set, it will be required by your contractor to install the wire from the meter location to the outside, as shown on Sheet 1. A 48-hour notice (business hours) is required.

Your meter can not be set until your plumber has installed the internal plumbing to your house in accordance with the service details.

Once the meter is set, a service turn-on can be scheduled through **WhiteWater at 603-324-8318.** The meter can be set and the water turned on during the same appointment.

High & Low Pressure Conditions

The applicant should be aware that the Town of Hudson has adopted the IRC (International Residential Code). This code addresses high and low pressure conditions for water supply. The applicant must address this issue with their plumber.

PRV Requirements

If a Pressure Reducing Valve (PRV) is required, the plumber will be required to perform the installation based on WhiteWater's recommendation. It is the responsibility of the property owner to install a suitable expansion tank and a pressure release valve on water heaters on the premises to prevent damage resulting from lack of pressure relief through the water line. WhiteWater may also require the property owner to install increased levels of backflow prevention protection.

Exhibit 3-Residential Water Service Application-Instructions.DOCX





12 School Street ' Hudson, New Hampshire 03051 ' Tel: 603-886-6000 ' Fax: 603-816-1291

Cross Connection

It is illegal to have a connection between the distribution system and any pipes, pumps, hydrants, fire protection, sprinkler system or tanks whereby non-potable water or other contaminating materials may be discharged or drawn into the water distribution system.

Separation of Water and Sewer

Water mains shall be installed at least **10-feet horizontally** from any existing or proposed sanitary sewer. In cases where it is not practical to maintain a 10-foot separation, a deviation may be allowed on a case-by-case basis. No water pipe shall pass through or come in contact with any part of a sanitary sewer manhole. The water service or main must be at least **18 inches above** the sewer main or service when crossed.

EXHIBIT 'A'

RESIDENTIAL WATER CONNECTION FEES

1.	Application	processing	& ins	pections b	by the Tow	n: \$100.00

2. Meter installation & inspections:

Meter installation WITHOUT fittings:

5/8"	size @	\$250.00
3/4**	size @	\$350.00
1"	size (a)	\$400.00

Meter installation WITH fittings included:

1 ½"	size @	\$800.00
2"	size @	\$1,050.00
3"	size @	\$1,050.00
	(plus	parts)

>3" *Cost to be determined at time of application.

3. New customer water system access fee: *See Exhibit 2





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RESIDENTIAL WATER CONNECTION PERMIT APPLICATION

PLEASE NOTE: It will be the responsibility of the applicant to provide meter fittings for 5/8", 3/4" and 1" meters, as per the specifications shown on Sheet 1. Fittings for 1.5" and 2" meter will still be provided by Town of Hudson through WhiteWater. The costumer shall also be responsible for installing the wire as shown on the attachments.

1.	APPLICANT INFO	DRMATION:		Owner	Contractor
NAM	ſE:				
ADD	RESS:				
BUII	LDING LOCATION: _				_
DRA	INLAYER'S LICENS	SE #:	CONT	TRACTOR	d:
	rainlayer's License is a	-		•	vices, and related work in Hudson Water Utility.
OWN	NER (If different from a	above):			
OWN	NER PHONE #:				
	oplying for this connect ral requirements.	ion, I agree to	abide by	all applicab	ole Town, State and
SIGN	JATURE:				
For o	ffice use:				
2a.	PERMIT FEE: Date:	5/8" Meter A Receipt #:		•	Received by:
2b.	ACCESS FEE: Date:	Amount: Receipt #: _		 :	Received by:
3.	SERVICE TYPE:	NEW	RENE	WED	METER ONLY
		1	Page 1 —		





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4.	DEPARTMENT OF PUBL	IC WORKS:			
	Street opening permit require	red: YES	1	NO	_
SPEC	IAL CONDITIONS:				
5.	TOWN ENGINEER REVI	EW:			
SPEC	IAL CONDITIONS:				
6. BACI	OTHER REQUIREMENTS	_	Yes	No	
	SURE REDUCING VALVE				
PRV	Requirements				
the incorporate the wa	ressure Reducing Valve (PRV stallation based on WhiteWat rty owner to install a suitable is on the premises to prevent of ater line. WhiteWater may also of backflow prevention protes	er's recommend expansion tank damage resulting so require the pro-	lation. It is t and a pressu g from lack o	the responsibility of the release valve on of pressure relief th	f the water rough
Meter	r Fitting Requirements				
3/4" an Sheet throug	be the responsibility of the cond 1" meters in addition to the 1. Fittings for 1.5" and 2" metaph WhiteWater. The costumer on Sheet 1.	wire installatio eters will still be	n, as per the provided by	specifications show the Town of Huds	wn on son
Build	ing Location:				
Tax M	ſap:	Lot:		_	
		—— Page 2 —			





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RESIDENTIAL WATER DEMAND FORM

PLUMBING FIXTURES	PIPE SIZE CONNECTION	QUANTITY
Bathtub		
Bedpan Washers		
Combination Sink & Tray		
Dental Unit		
Dental Lavatory		
Drinking Foundation		
Kitchen Sink – ½" Connection 3/4" Connection		
Lavatory – 3/8" Connection 3/4" Connection		
Lavatory Tray – ½" Connection 3/4" Connection		
Shower Head (Shower On)		
Service Sink – ½" Connection 3/4" Connection		
Urinal – Pedestal Flush Valve Wall Flush Valve Trough (2 Ft. Unit)		
Wash Sink (Each Set of Faucets)		
Water Closet – Flush Valve Tank Type		
Dishwasher – ½" Connection 3/4" Connection		
Washing Machine – ½" Connection 3/4" Connection 1" Connection		
Hose Connection (Wash Down)		
Hose (50 Ft. Wash Down) 1/2" 3/4" 5/8"		
Irrigation *Please list: # of heads Area – Sq.Ft.		





12 School Street · Hudson, New Hampshire 03051 · Tel: 603-886-6000 · Fax: 603-816-1291

Water Service Sketch

Street Addres	ss:
Мар:	Lot:
	Building Foundation
Edge ofPavement	
Sketch shall shand distance of	ow the approximate location of the existing water main, and the location the proposed water and sewer service.
	——————————————————————————————————————





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FIRE SERVICE (If applicable)

SUBDIVISION NAME:	
LOCATION:	
BUILDING #	
SERVICE NO.	
DATE:	
FIRE SERVICE SIZE:	

Exhibit 4

Water Service Application - Non-Residential





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TOWN OF HUDSON WATER UTILITY

WATER SERVICE APPLICATION (NON-RESIDENTIAL)

Below are step by step procedures for attaining service. Should you have any questions concerning what is required, please call the Engineering Division at 886-6008.

The Town has contracted with WhiteWater to assist with the installation of meters and inspections. Once an application and the permit fee have been submitted to the Town, the application will be sent to WhiteWater for review. The application fee is defined on Exhibit A (page 3) of the permit. There is also a one-time **Water Access Fee** that is required for all new connections to the town water main. The Access Fee is set annually, as per the "New Customer Water Access Fee" schedule attached, and must be paid prior to service turn-on and/or issuance of a Certificate of Occupancy.

STEP BY STEP PROCEDURES FOR OBTAINING SERVICE

NOTE: A Drainlayer's License is required for all work on water mains, service lines and related work in public or private right-of-ways connecting to the Town of Hudson Water Utility.

- 1. Please complete both the Water Connection Permit Application and Water Demand Form. The linear footage of pipe to be installed will also have to be determined/estimated and filled out on Exhibit A (page 3) of the application.
- 2. A plan must be submitted showing the existing water main, edge of pavement, building foundation, location of the proposed service and all applicable dimensions including building ties to the curb stop.
- 3. Submit the application, Water Demand Form, and plan with the \$100.00 application fee made payable to: Town of Hudson, 12 School Street.
 Note: The inspection fee and meter fee will be paid at time of permit issuance, and the Water Access fee must be paid prior to service turn-on and/or issuance of a Certificate of Occupancy. All fees are required to be paid in full prior to service.
- 4. The Town and WhiteWater will then review the application. The meter size will be determined by WhiteWater at this time. You will be contacted when the review process is completed and approved. You may then pick up your permit and pay the balance of the application fee, which will be based on the meter size, the LF of installed pipe, and any other additional features (ie: hydrants, etc.).

Exhibit 4-Non Residential Water Service Application-Instructions.docx





12 School Street ' Hudson, New Hampshire 03051 ' Tel: 603-886-6000 ' Fax: 603-816-1291

5. It is the applicant's responsibility to hire a contractor to do the installation of the water service line in accordance with Town service specifications, and pay for all water line installation costs. Copies of the appropriate service details can be found online by viewing the Water Service Specifications link, or obtained in the Engineering Department of Town Hall.

A street opening permit may be required. Please contact the Hudson Public Works Department for application and processing at 603-886-6018.

The water service must be inspected by one of the Town's technicians or agents prior to backfill. Inspections can be scheduled by calling the Engineering Department at 603-886-6008. It is your responsibility to fence any trenches that must be left open until inspection.

6. Your final step to receiving water service involves the installation of the water meter, remote reader, and turning on the water service. Please contact WhiteWater at 603-324-8318 to have your meter installed. Note that it is the responsibility of the contractor to provide meter fittings for 5/8", ¾" and 1" meters in addition to the wire installation, as per the specifications shown on Sheet 1. A list of suppliers for the meter fittings and wire is shown on Appendix X. Fittings and wire for 1.5" and 2" meters will still be provided by Town of Hudson through WhiteWater. A remote wire will be installed from the inside meter location to the outside of your building before the 1.5" and 2" meter can be set. If any part of this wire needs to be installed behind sheet rock or in an area that will not be accessible to WhiteWater at the time the meter is set, it will be required by your contractor to install the wire from the meter location to the outside, as shown on Sheet 1. A 48-hour notice is required (business hours) is required.

The Water Department may require a Compound Meter on services that are 2" or larger, that can accurately read both high and low flow rates.

Your meter can not be set until your plumber has installed the internal plumbing to your building in accordance with the service details.

Once the meter is set, then a service turn-on can be scheduled through **WhiteWater at 603-324-8318.** The meter can be set and the water turned on during the same appointment. Again, please be advised that the Water Access fee must be paid prior to service turn-on and/or issuance of a Certificate of Occupancy.





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High & Low Pressure Conditions

The applicant should be aware that the Town of Hudson has adopted the IRC (International Residential Code). This code addresses high and low pressure conditions for water supply. The applicant must address this issue with their plumber.

PRV Requirements

If a Pressure Reducing Valve (PRV) is required, the plumber will be required to perform the installation based on WhiteWater's recommendation. It is the responsibility of the property owner to install a suitable expansion tank and a pressure release valve on water heaters on the premises to prevent damage resulting from lack of pressure relief through the water line. WhiteWater may also require the property owner to install increased levels of backflow prevention protection.

Cross Connection

It is illegal to have a connection between the distribution system and any pipes, pumps, hydrants, fire protection, sprinkler system or tanks whereby non-potable water or other contaminating materials may be discharged or drawn into the water distribution system.

Separation of Water and Sewer

Water mains shall be installed at least 10-feet horizontally from any existing or proposed sanitary sewer. In cases where it is not practical to maintain a **10-foot separation**, a deviation may be allowed on a case-by-case basis. No water pipe shall pass through or come in contact with any part of a sanitary sewer manhole. The water service or main must be at least **18 inches above** the sewer main or service when crossed.





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WATER CONNECTION PERMIT APPLICATION (NON-RESIDENTIAL)

PLEASE NOTE THE FOLLOWING CHANGES EFFECTIVE IMMEDIATELY:

It will be the responsibility of the costumer to provide meter fittings for 5/8", 3/4" and 1" meters, see Sheet 1 for additional information. Fittings for 1.5" and 2" meters will still be provided by Town of Hudson through WhiteWater. The costumer shall also be responsible for installing the wire as shown on the attachments.

1.	APPLICANT INFO	DRMATION:	Owner_	Contractor
NAM	ſE:			
ADD	RESS:			
TELI	EPHONE:		EMAIL:	
BUII	LDING LOCATION: _			
TAX	MAP:		LOT:	
DRA	INLAYER'S LICEN	SE #:	CONTRACTO	OR:
	· ·	-		rvice lines and related worl of Hudson Water Utility.
OWN	NER (If different from a	above):		
OWN	VER PHONE #:			
	oplying for this connectral requirements.	tion, I agree to	abide by all applic	cable Town, State and
SIGN	NATURE:			
	ffice use:			
2a.	APPLICATION P	ROCESSING	FEE:	Amount: \$100.00
	Date:	Receipt #:_		Received by:
2b.	PERMIT FEE: (M	leter/Inspection	ns – per Exhibit A) Amount:
	Date:	Receipt #:_		Received by:
2c.	ACCESS FEE:			Amount:
	Date:	Receipt #:_		Received by:
	SERVICE TYPE:	NEW	RENEWED	METER ONLY





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4.	DEPARTMENT OF PUBLIC WORKS RE	<u>VIEW</u>	
	Street opening permit required: YES	N	NO
SPECI	AL CONDITIONS:		
5.	TOWN ENGINEER REVIEW (if applicable)	ole)	
SPECI	AL CONDITIONS:		
6.	OTHER REQUIREMENTS		
BACK	FLOW PREVENTER REQUIRED:	Yes	No
PRESS	SURE REDUCING VALVE REQUIRED:	Yes	No
PRV F	Requirements:		
the inst proper heaters the war	essure Reducing Valve (PRV) is required, the tallation based on WhiteWater's recommend ty owner to install a suitable expansion tank son the premises to prevent damage resulting ter line. WhiteWater may also require the prof backflow prevention protection.	ation. It is the and a pressure from lack of the state of	he responsibility of the re release valve on water of pressure relief through
Meter	Fitting Requirements:		
meters provide	be the responsibility of the costumer to provi , see Sheet 1 for additional information. Fitti ed by Town of Hudson through WhiteWater. sible for installing the wire as shown on Shee	ngs for 1.5". The costum	and 2" meters will still be
Buildin	ng Location:		
Tax M	ap: Lot:		_





12 School Street · Hudson, New Hampshire 03051 · Tel: 603-886-6000 · Fax: 603-816-1291

EXHIBIT 'A'

l.	Application Proce	ssing Fee:			\$100.00
2.	Meter installation	:			
	(without fittings)	5/8"		size @	\$250.00
	· · · · · · · · · · · · · · · · · · ·	3/4"		size (a)	\$350.00
		1"		size (a)	\$400.00
	Meter installation			size @	\$800.00
	(with fittings)	2"		size @	\$1,050.00
		3"		size @	\$1,050.00
				(plus	parts)
		>3"	*Co	ost to be determined at	time of application.
				re a <u>Compound Water</u> urately read both high a	Meter on water services and low flow rates.
	Meter Size:				\$
4.	Hydrant:	Cost per hydrar	<u>1t</u>	# of hydrants	
		\$85.00	X	=	\$
5.	Fire Service:				
	Inspection Fee	@ \$4.00 per L.	F. of	installed pipe:	
				L.F. x \$4.00 =	\$
				Total:	\$
6.	New customer Wa			Fee:	\$
	* Set annually - * Must be paid			-on.	





12 School Street ' Hudson, New Hampshire 03051 ' Tel: 603-886-6000 ' Fax: 603-816-1291

WATER DEMAND FORM

PLUMBING FIXTURES	PIPE SIZE CONNECTION	QUANTITY
Bathtub		
Bedpan Washers		
Combination Sink & Tray		
Dental Unit		
Dental Lavatory		
Drinking Foundation		
Kitchen Sink – ½" Connection 3/4" Connection		
Lavatory – 3/8" Connection 3/4" Connection		
Lavatory Tray – ½" Connection ³ / ₄ " Connection		
Shower Head (Shower On)		
Service Sink – ½" Connection 3/4" Connection		
Urinal – Pedestal Flush Valve Wall Flush Valve Trough (2 Ft. Unit)		
Wash Sink (Each Set of Faucets)		
Water Closet – Flush Valve Tank Type		
Dishwasher – ½" Connection 3/4" Connection		
Washing Machine – ½" Connection 3/4" Connection 1" Connection		
Hose Connection (Wash Down)		
Hose (50 Ft. Wash Down" 1/2" 3/4" 5/8"		
Irrigation *Please give: # of heads Area – Sq. Ft.		





12 School Street · Hudson, New Hampshire 03051 · Tel: 603-886-6000 · Fax: 603-816-1291

FIRE SERVICE

* You must complete this section if your facility will have a Fire Service/sprinkler system.

SUBDIVISION NAME:	
LOCATION:	
BUILDING #	
SERVICE NO.	
DATE:	
FIRE SERVICE SIZE:	





12 School Street · Hudson, New Hampshire 03051 · Tel: 603-886-6000 · Fax: 603-816-1291

Water Service Sketch

Street Address:		
Map:	Lot:	
	Building Foundation	
R.O.W.		
		- — — — — —
Edge of		

Sketch shall show the approximate location of the existing water main, and the location and distance of the proposed water and sewer service.

Exhibit 5

Abatement Form



TOWN OF HUDSON

Water Utility



12 School Street

Hudson, New Hampshire 03051 Tel: 603-886-6002 Fax: 603-881-3944

APPLICATION FOR WATER UTILITY ABATEMENT

	ABATEMENT #			
****** APPLICANT MUST FILL IN ALL SPACES BELOW AND SIGN *******				
Water Account #:			Date:	
Name of Applicant:				
Name of Property Owner:				
Address of Property:				
Parcel ID:	rcel ID: Amount: \$			
I/We request an Abatemen	nt of water charges on the pr	operty listed abo	ve for the billing period	
	, for the following	reason(s):		
Signature of Applicant(s):			Date:	
			Date:	
Mailing Address: Street:			Town/City:	
State:	Zip Code:	Phone #:		
RETURN CO	MPLETED APPLICATIO Do not write below this			
Date Received:		Received By: _		
Type of Request:				
Monthly Utility Rents:	Monthly Fire Service Fee:	Water Conn	ection Fee: Water Access Fee:	
Total Abatement Amount	· ¢	Refund Amount: \$		

ABATEMENT RECOMMENDATION REPORT

1. Water Utility Department:
Date of Filing: Utility Clerk:
Accuracy check, corrections, and deficiencies:
2. Finance Director:
Finance Director Recommends: Approving Abatement: Denying Abatement:
Comments:
Signature: Date:
3.Municipal Utility Committee:
Date Submitted and Reviewed :
Municipal Utility Committee Recommends: Approving Abatement: Denying Abatement:
Comments:
Signature: Date:
Recommended Total Abatement/Refund Amount: \$
4. Board of Selectman: Granted: Denied: Date:
5. Date Notification Letter Sent to Applicant:
6. Date Copy given to the Sewer Utility Department:

Exhibit 6

Policies & Procedure for Public & Private Fire Hydrants



TOWN OF HUDSON

Hudson Water Utility



12 School Street •

Hudson, New Hampshire 03051 • Tel: 603-886-6008 • Fax: 603-816-1291

POLICIES & PROCEDURES FOR PUBLIC AND PRIVATE FIRE HYDRANTS

Fire hydrants: Ownership, installation, maintenance replacement (see Section III.H of the "Rules & Regulations"), and fees:

- 1. All new hydrants in the Town of Hudson are Metropolitan M-94 or Super Centurion A 423- 5 1/4" valves opening left counter clockwise.
- 2. All hydrants will be connected to the main through a readily accessible, separate gate valve.
- 3. Hydrants may be owned publicly (by the Hudson Water Utility) or by a private entity.
- a) Hydrants located in public right of way are considered Town owned.
- b) Hydrant located on private property or privately owned sites are considered privately.
- 4. The Hudson Water Utility will inspect <u>all</u> hydrants, public and private, twice a year. The two inspections consist of the "dry" and "wet" procedure. Inspection data is categorized and maintained by the O&M contractor, White Water Inc.
 - a) Maintenance shall be conducted in accordance with best industry standards and current NFPA 25 STANDARD FOR THE INSPECTION, TESTING AND MAINTENANCE OF WATER BASED-FIRE PROTECTION SYSTEMS.
- 5. Public hydrants owned by the Hudson Water Utility are maintained, repaired and/or replaced as needed by the Hudson Water Utility.
- 6. Privately owned hydrants: each owner on whose property, the privately owned hydrant is located must maintain the hydrant(s) functional. Each owner is responsible for keeping said hydrants in good working order and accessible.

When the Hudson Water Utility through its annual inspections notes deficiencies in private hydrant conditions, it is the responsibility of the hydrant owner to make corrections promptly. Hudson Water Utility will notify the owner in writing and the response will be expected in writing.

Fire and Engineering Department, in addition to WhiteWater, will be copied on the electronic correspondence. Replacement of hydrants may be completed by the Hudson Water Utility at the owner's expense.

- 7. Snow removal for private hydrants is the responsibility of the owner. A contractor hired by the Hudson Public Works Department conducts snow removal for public hydrants.
- 8. Hydrants are painted and repainted by the O&M contractor White Water Inc, on a scheduled basis. All hydrant bodies are painted yellow with caps painted as follows:

BLUE for 1,500 GPM or more
GREEN for 1,000 GPM – 1,499 GPM
ORANGE for 500 GPM – 999 GPM
RED for less than 500 GPM
BLACK STEAMER for nonworking hydrants-instead of orange bags

The installation applicant pays for initial hydrant painting. This is paid for at the time of the pre-construction meeting for subdivisions or at the time a water service connection application is made for development sites.

- 9. Location flags are provided by The Hudson Water Utility through O&M contractor WhiteWater Inc, or the Fire Department, and are attached at the time hydrants are painted. Cost for hydrant flags in new development(s) is the developers/owners responsibility.
- 10. Hydrant locations are determined by the Hudson Fire Department in coordination with the Hudson Engineering Department and the O&M contractor White Water Inc.

A property owner/developer submits three (3) hydrant location plans. These are reviewed and approved by the Fire Department and then signed by the Fire Department, Engineering Department and the owner/developer. Each entity will receive a copy of the signed "hydrant plan". Any change to this after initial approval must go through the same approval process.

The "rule of thumb" for hydrant spacing is:

- 300 feet from each other, for high-density areas.
- 500 feet from each other, for commercial industry areas.
- 800 feet from each other, apart for residential areas.
- 11. Fire flow tests are to be requested and scheduled through the Engineering Department. Typically these are required to be done at "off peak" times. A Hudson

^{*}As outlined by current NFPA standard

Water Utility O&M representative shall be notified prior to testing and could be required to be present.

- 12. If there is a fire department sprinkler connection on any building, it will be located no less than 100 feet nor more than 200 feet from a fire hydrant. There will be no parking spaces, trees or bushes in front of any fire hydrants or fire department connections in accordance with a nationally accepted practice found in applicable NFPA standards.
- 13. A proper water supply must be made available prior to any construction where there are combustible materials. The water flow data for each fire hydrant must be submitted to the Fire Prevention Division and Engineering Department prior to the issuance of any building permits in accordance with **current NFPA standard**.
- 14. Public and private hydrants shall be accessed only by the Fire Department and Hudson Water Utility staff. The only public fire hydrant access allowed will be for seasonal construction meters installation through a permit application at the Engineering Department.
- 15. Water Utility Hydrant Fee/ Fire Access Charge

Town of Hudson shall be responsible for the public hydrants, located on public right of way and served by accepted water lines. Private hydrants, located within private properties or served by main service lines, shall be the responsibility of private owner.

Fire Service Fee Matrix

Service Size	Monthly Rate	
2"	\$11.94	
3"	\$26.87	
4"	\$47.77	
6"	\$107.50	
8"	\$191.10	
10"	\$298.58	
12"	\$429.97	
Private Hydrant	\$77.63	
Public Hydrant	\$16.2	

Fire Department Chief

Dahart M Ruyton

Date: 3/20/19

Town Engineer

Elvis Dhima, P.E.

Date: 3/26/19

Exhibit 7

Drainlayer's License Application



TOWN OF HUDSON DPW



Date_____

APPLICATION FOR A DRAINLAYER'S LICENSE

2 Constitution Drive • Hudson, New Hampshire 03051 • Tel: 603-886-6018 • Fax: 603-594-1143

I/We	<u> </u>
Phone Number:	Email .
Ordinance. The applicant must	te, in accordance with the Town of Hudson Sewer and Water e familiar with applicable ordinances and regulations cations, Sewer & Water Ordinance and New Hampshire State
enclose a list of references, stating will file with Engineering Office. Thi and services related work in public	nent of Public Works and Engineering Department, the applicant muse name, location, scope, and size of prior work done. Applications shall be applicable to all drainage, sewer, and water mained private right of way connecting to any Town of Hudson Utilitier/ drainage services installation from the property line/cleanout
each occurrence. 2) Property Damage \$25,000/\$100 explosion, collapse hazard, and data of the change and/or terminal data of the change and data of the change and data of the change and data	to the protection of employees. the Department of Public Works or Engineering d/or termination in the coverage at least 10 days prior to the
2. <u>Annual License Fee</u> A \$250.00 non-refundable fee is requ	ed, for the license term, January 1 - December 31. n or expiration will automatically cancel the Drainlayer's License.
Signature, Title of Lienholder	Date
Director of Public Works	Date

Town Engineer _____

DRAINLAYER'S LICENSE REQUIREMENTS

- a. In accordance with
 - Sewer Ordinance 77, Article 15
 - Water Ordinance 274, Water Utility Policies and Procedure Section VIII
- b. Before approval by the Public Works and Engineering Departments, a drainlayer shall submit an application for review.

Part of the application shall include identification of experience in performing sewer installation, including:

- experience
- type of work done
- size of projects done
- at least 3 references (municipality references preferred)
- c. Applicants for a Drainlayer's License will be notified of issuance of license in writing. Such license shall be good during the calendar year unless revoked sooner.
- d. Licensed drainlayers shall:
 - Execute a bond issued to the Town in the sum of ten thousand dollars (\$10,000.00) to be approved by the Public Works or Engineering Department.
 - Comply, to the satisfaction of the Public Works and Engineering Department, with the Town ordinances and/or rules for which the work is performed.
 - Insure that the excavation is properly guarded at all times for the protection of the public.
 - Ensure that all connections and joints in every private sewer are properly constructed, and leave no obstruction of any kind in any sewer line; and
 - A Hold Harmless agreement to the Town of Hudson must be in place to indemnify any liability for injuries resulting from neglect, carelessness or incompetency in constructing, repairing or connecting any private sewer, or properly fencing or lighting any excavation or obstruction, or in performing any other work connected therewith.

Exhibit 8

Temporary Water Meter Permit Application



TOWN OF HUDSON – Engineering Department



12 School Street · Hudson, New Hampshire 03051 · Tel: 603-886-6000 · Fax: 603-816-1291

TEMPORARY WATER METER PERMIT APPLICATION

APPLICANT INF	ORMATION:				
CONTRACTOR N	AME:				
ADDRESS:					
TELEPHONE:	ONE:EXT:				
CONTRACTOR PI	HONE:				
HYDRANT LOCA	TION:				
TAX MAP:		LOT:			
Application proces	ssing fee must accompany permi	t application.			
APPLICABLE TO	OR THIS CONNECTION, I AGRI WN, STATE AND FEDERAL RE er Meters will be installed and rem				
s3.00/day rental for rental fee, along wir meter is removed.	th the water usage charge, which v	n of Hudson will also charge a consibility of the applicant to pay that will be calculated and invoiced once the 7 (748 gallons per HCF). The water			
	on and removal can be scheduled business-hours after the permit has				
SIGNATURE:					
For office use:					
APPLICA	TION PROCESSING FEE:	Amount: \$200.00			
Date:	Receipt #:	Received by:			



TOWN OF HUDSON – Engineering Department



12 School Street ' Hudson, New Hampshire 03051 ' Tel: 603-886-6000 ' Fax: 603-816-1291

For office use:				
☐ Approved	Engineering Departm	ent	Date	
Comments/Stipulations	S:			
☐ Approved	Fire Department		Date	
Comments/Stipulations			Suc	
Location:				
Tax Map:				
Installation Date:		Removal Date:_		
Total # of Days:	X \$3.00/Dax	z Rental Fee:		

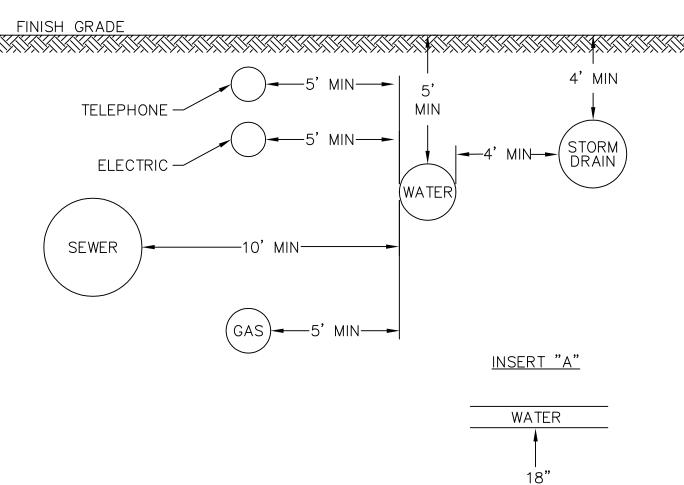
Exhibit 9

Typical Water Details

Water Details

Detail	Name
W-1	Utility Separation (Main) Detail
W-2	Water Trench
W-3	Water 1" Release Valve Installation On Ductile Iron
W-4	Water 2" Release Valve Installation On Ductile Iron
W-5	Water Release Valve Installation On PVC
W-6	Water Tee Installation
W-7	Water Thrust Block Behind Fittings Installation
W-8	Water End Of Main Installation
W-9	Water Valve Box Detail
W-10	Water Hydrant Installation
W-11	Utility Separation (Service) Detail
W-12	1-1/2" – 2" Water Service and Valve Box Installation
W-13	Water Service Box Detail in Paved Areas Including Driveways
W-14	Water Service Meter Installation
W-15	Water Slab Construction
W-16	Catch Basin Insulation Detail
W-17	Storm Drain / Water Main Parallel Runs - Elevation View
W-18	Storm Drain / Water Main Intersecting Runs - Elevation View
W-19	Copper Water Service on PVC and Transite Mains
W-20	1" Water Service and Valve Box Installation
W-21	Large Water Service and/or Tapping Sleeve
W-22	Fire Water Service Installation with Standard Foundations
W-23	Fire Service Installation with Slab Foundations
W-24	Domestic Water Service Tapped Off Fire Service
W-25	1-1/2" Through 2" Water Service Entrance
W-26	Fire Service Entrance
W-27	Combined Fire Domestic Water Service Entrance
W-28	Fire Service With Yard Hydrants
W-29	Manufactured Housing or Slab Water Service Entrance
W-30	Domestic Irrigation Water Service Meter Installation

DRAWING:



NOTES:

- ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO TOWN OF HUDSON TECHNICAL SPECIFICATIONS.
- 2. ALL WATER MAINS SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
- 3. SEE DETAIL A-2 FOR TRENCH DETAIL.
- 4. SEE DETAIL A-11 FOR OUTSIDE SERVICE ENTRANCE DETAIL.
- 4. AT CROSSINGS WHERE 10' HORIZONTAL SEPERATION IS NOT POSSIBLE, 18" VERTICAL SEPERATAGE SHALL BE PROVIDED. SEE INSERT "A".

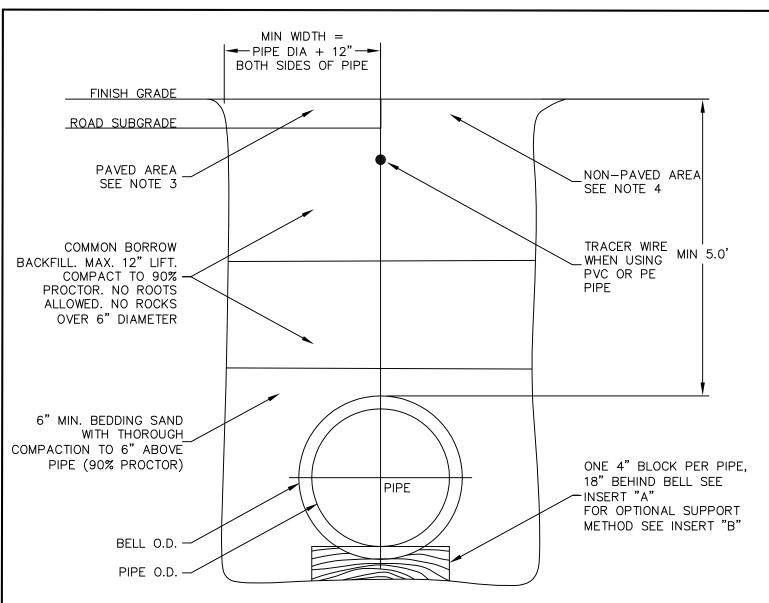
DRAWINGS COURTESY PENNICHUCK WATER WORKS.



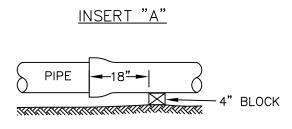
SEWER

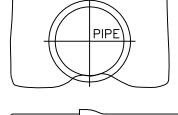
TOWN OF HUDSON 12 SCHOOL STREET HUDSON, NH 03051

DETAIL W-1 <u>WATER UTILITY SEPARATION</u> REV: 2019 SCALE: NTS

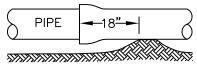


INSERT "B"





OPTIONAL ONLY WHEN SOIL CONDITIONS ARE EQUAL TO 6" MIN. BEDDING SAND WITH THOROUGH COMPACTION



DRAWINGS COURTESY PENNICHUCK WATER WORKS.

NOTES:

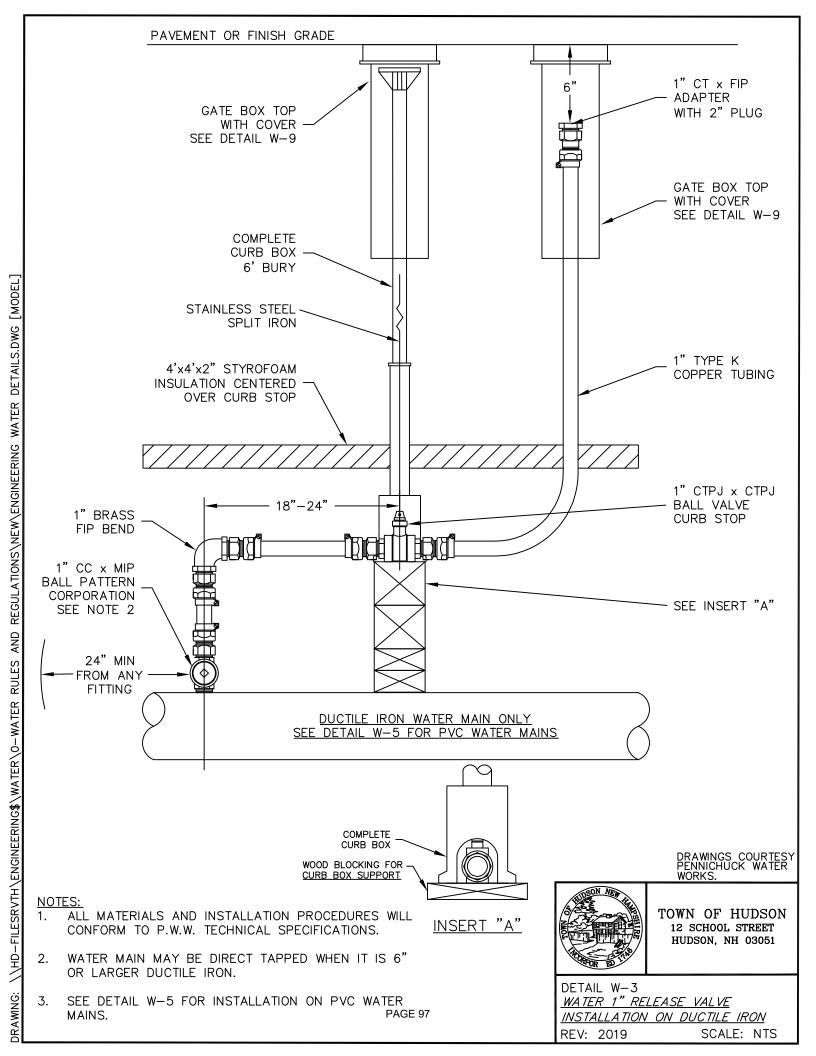
ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO TOWN OF HUDSON TECHNICAL SPECIFICATIONS.

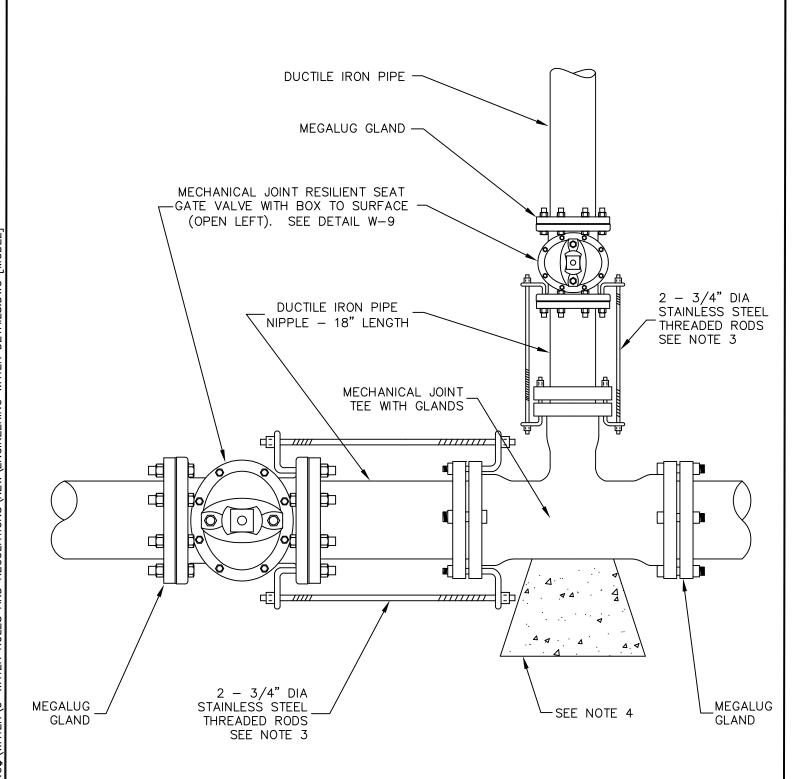
- 2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
- 3. REQUIREMENTS FOR SUBBASE AND BASE MATERIAL TYPE ARE TO BE IN ACCORDANCE WITH TOWN OF HUDSON STANDARDS. SEE DEATIL R-1.
- 4. REQUIREMENTS FOR GRAVEL, LOAM AND/OR SEED ARE TO BE IN ACCORDANCE WITH TOWN OF HUDSON STANDFARGES96 SEE DETAIL.



TOWN OF HUDSON 12 SCHOOL STREET HUDSON, NH 03051

DETAIL W-2 <u>WATER TRENCH</u> REV: 2019





- 1. ALL MATERIAL AND INSTALLATION PROCEDURES WILL CONFORM TO TOWN OF HUDSON TECHNICAL SPECIFICATIONS.
- 2. ALL PIPE SHOULD HAVE A MINIMUM DEPTHS OF 5' FROM TOP OF PIPE TO FINISH GRADE.
- 3. ALL THREADED RODS AND NUTS MUST BE STAINLESS STEEL.
- 4. MIN 2'x2'x4' PRECAST CONCRETE THRUST BLOCK MAY BE USED WITH P.W.W. APPROVAL OR CONCRETE THRUST BLOCK POURED AGAINST UNDISTURBED EARTH SIZE TO BE BASED ON POSPECIOS FITTING AND PRESSURE IN WATER MAIN. SEE DETAIL W-7.

DRAWINGS COURTESY OF PENNICHUCK WATER WORKS.

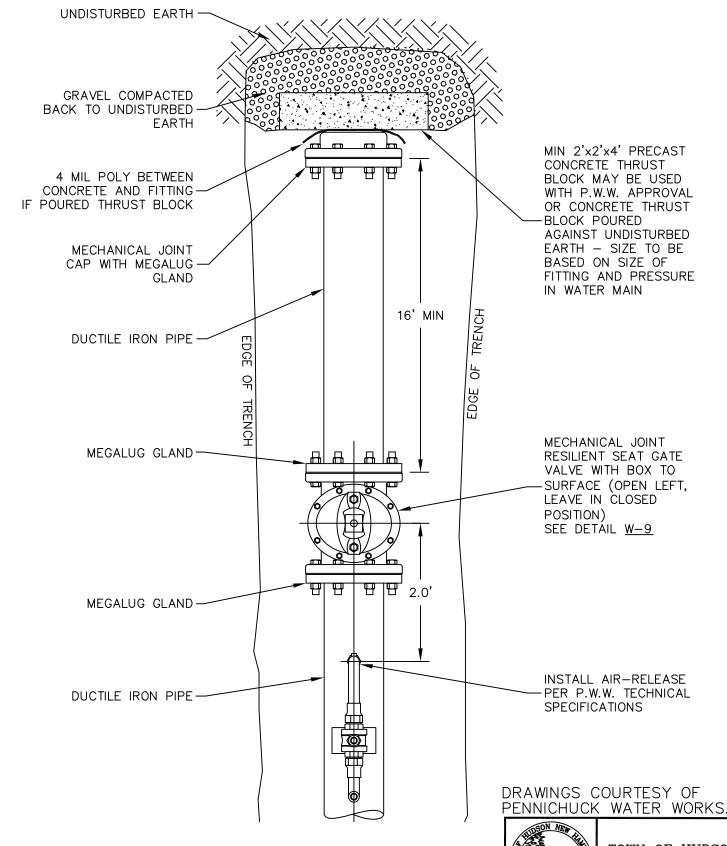


TOWN OF HUDSON 12 SCHOOL STREET HUDSON, NH 03051

DETAIL W-6

WATER TEE INSTALLATION

REV: 2019



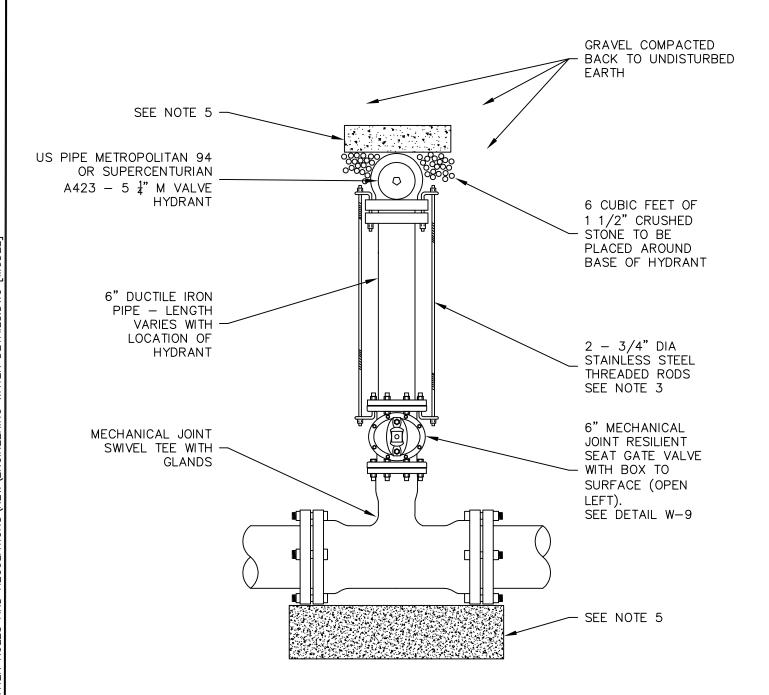
 ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO TOWN OF HUDSON TECHNICAL SPECIFICATIONS.

 ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE. PAGE 102 TOWN OF HUDSON
12 SCHOOL STREET
HUDSON, NH 03051

DETAIL W-8

WATER END OF MAIN INSTALLATION

REV: 2019



- ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO TOWN OF HUDSON TECHNICAL SPECIFICATIONS.
- 2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
- 3. ALL THREADED RODS AND NUTS MUST BE STAINLESS STEEL.
- 4. WHEN DISTANCE FROM WATER MAIN TO HYDRANT IS MORE THAN 10', SUBSTITUTE MEGALUGS IN LIEU OF THREADED ROD OR GRIP RINGS.
- 5. MIN OF 2-2'x2'x4' PRECAST CONCRETE THRUST BLOCK MAY
 BE USED WITH TOWN OF HUDSON APPROVAL OR CONCRETE THRUST
 BLOCK POURED AGAINST UNDISTURBED EARTH SIZE
 TO BE BASED ON SIZE OF FITTING AND PRESSURFAGE 104
 IN WATER MAIN. SEE DETAIL W-7.

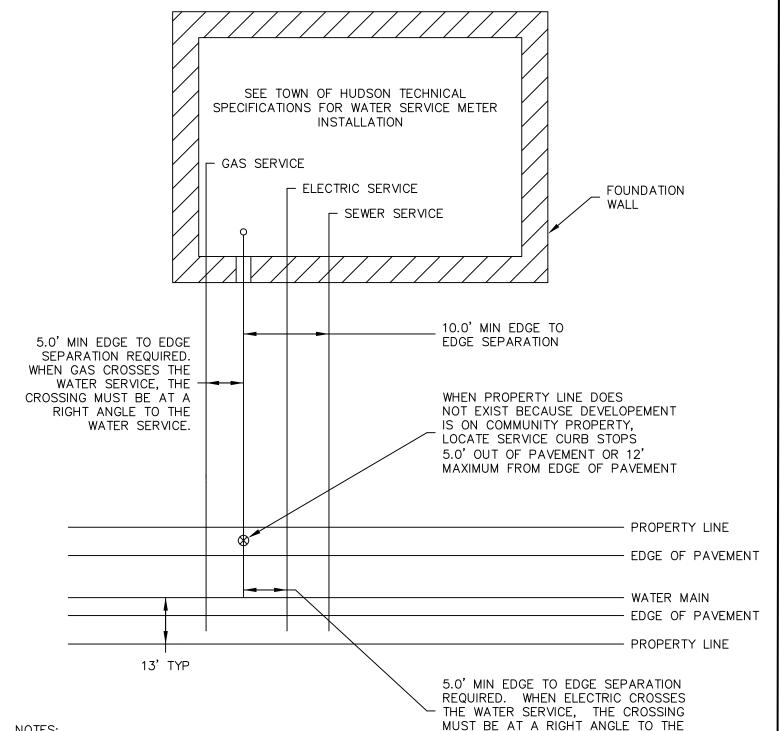
DRAWINGS COURTESY OF PENNICHUCK WATER WORKS.



TOWN OF HUDSON 12 SCHOOL STREET HUDSON, NH 03051

DETAIL W-10 <u>WATER HYDRANT INSTALLATION</u>

REV: 2019 SCALE: NTS



ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO TOWN OF HUDSON TECHNICAL SPECIFICATIONS.

- 2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
- 3. SERVICE ENTRANCE SHALL BE MADE IN THE FRONT OR SIDE OF BUILDING.
- 4. SERVICE ENTRANCE MADE IN REAR OF HOUSE WILL NOT BE ACCEPTED UNLESS PREVIOUSLY APPROVED BY P.W.W.
- 5. SERVICE ENTRANCE LOCATION WILL BE DETERMINED BY THE P.W.W. REPRESENTATIVE ON SITE.
- 6. IF SERVICE IS TAPPED OFF A FIRE SERVCE, THEN SEE 105 DETAIL W-24.

DRAWINGS COURTESY OF PENNICHUCK WATER WORKS.

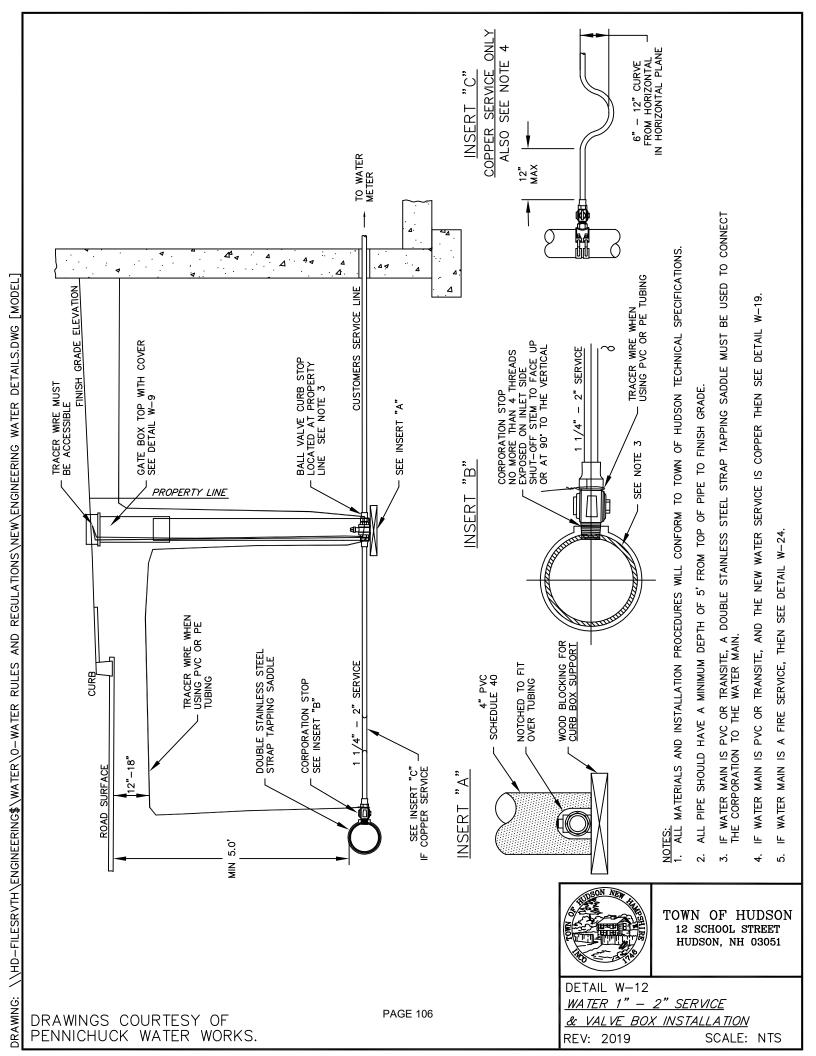


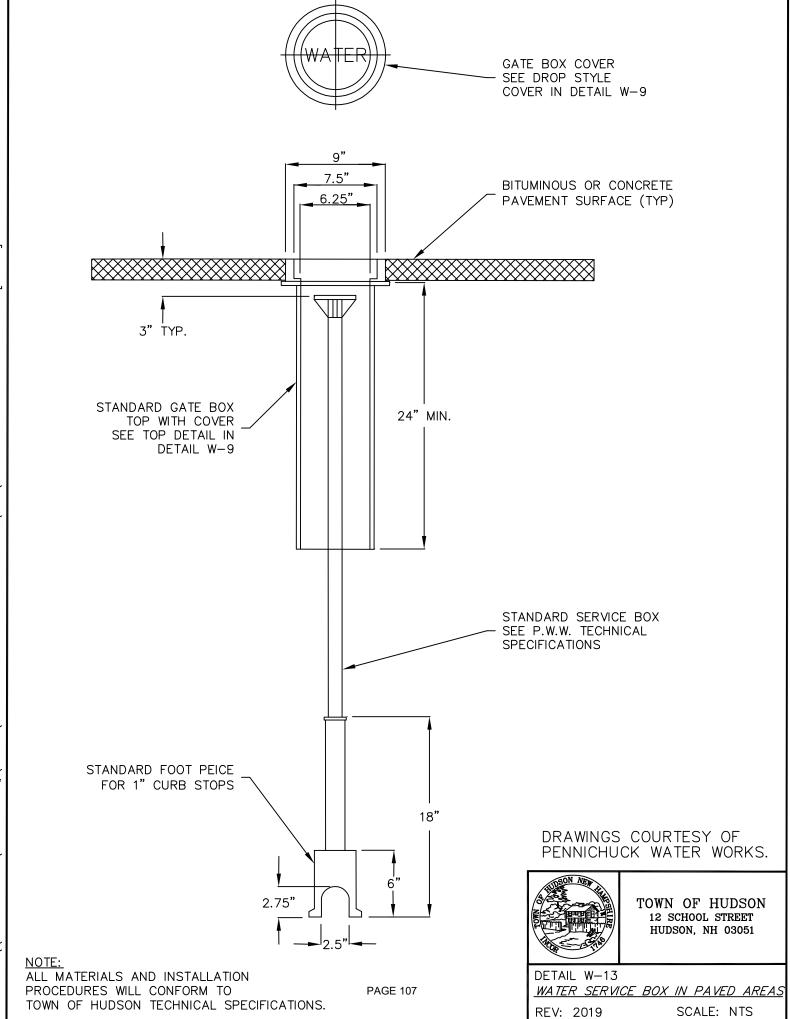
WATER SERVICE.

TOWN OF HUDSON 12 SCHOOL STREET HUDSON, NH 03051

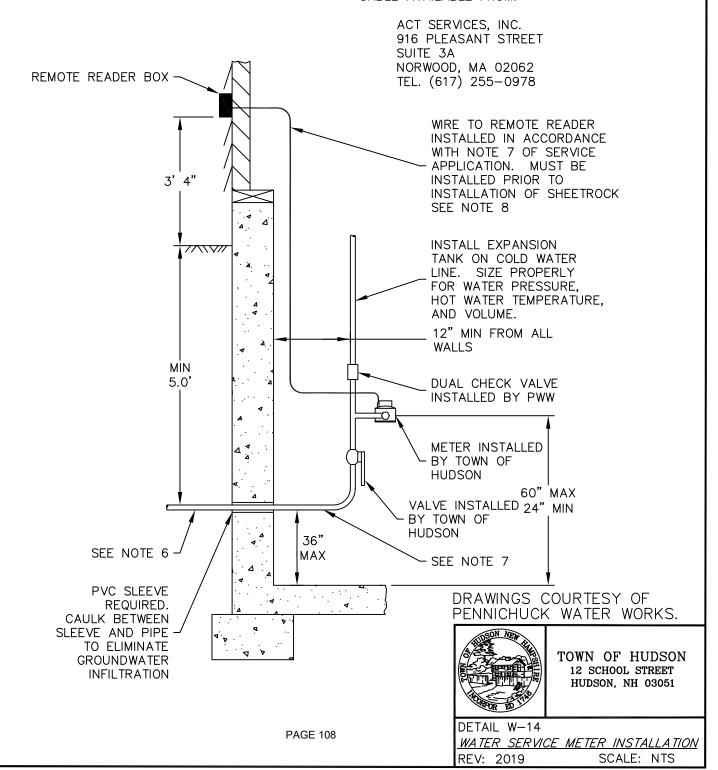
DETAIL W-11 OUTSIDE WATER SERVICE ENTRANCE

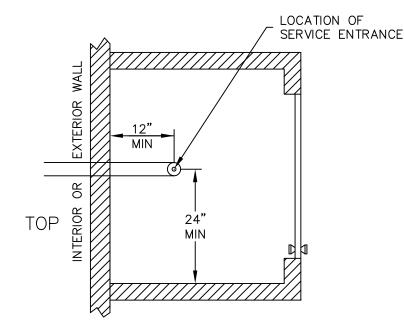
REV: 2019 SCALE: NTS

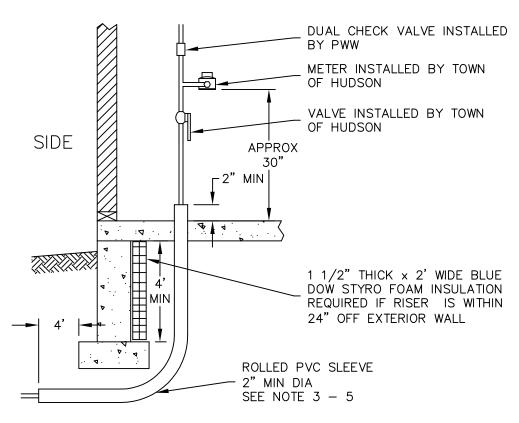




- ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO TOWN OF HUDSON SPECIFICATIONS.
- 2. SEE SERVICE APPLICATION REQUIREMENTS.
- INSTALLATION UNDER FOOTING OR THROUGH FOUNDATION WALL AT OWNER'S EXPENSE.
- OWNER MUST PROVIDE A CLEAN, DRY, ACCESSIBLE, AND WARM (CONTINUALLY ABOVE 45° F) LOCATION FOR THE WATER METER.
- 5. OUTSIDE READER MUST BE LOCATED ADJACENT TO DRIVEWAY.
- 6. SERVICE LINE FROM STREET, SIZE & MATERIALS TO BE APPROVED BY TOWN OF HUDSON. ONLY TYPE "K" COPPER TUBING OR 200 PSIG RATED CTS POLYETHYLENE TUBING ARE ACCEPTABLE FOR SERVICE LINES. SAND TO BE USED FOR BACKFILL FOR A MINIMUM OF 6" ABOVE AND BELOW THE SERVICE LINE.
- 7. PROVIDE A MINIMUM OF 24" OF STRAIGHT COPPER AT SERVICE ENTRANCE INSIDE OF BUILDING TO ALLOW FOR INSTALLATION OF TOWN OF HUDSON METER AND VALVES.
- 8. METER WIRE TO BE 22 AWG 3-STRAND (BLACK/RED/GREEN COLOR CODE) SOLID STRAND CABLE AVAILABLE FROM:







- ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO TOWN OF HUDSON TECHNICAL SPECIFICATIONS.
- 2. ALL WATER SERVICES IN SLAB CONSTUCTION BUILDINGS MUST BE INSTALLED IN PVC PIPE SLEEVES AS SHOWN.
- 3. NOTES 4 THROUGH 8 ON DETAIL W-14 ALSO APPLY.
- 4. SLEEVE IS TO EXTEND 4" BEYOND THE EXTERIOR LINE OF THE FOUNDATION WALL WITH ONE CONTINUOUS PIECE OF SLEEVE.
- 5. ON SLEEVES GREATER THAN 2" IN DIAMETER, SOLVENT WELDED JOINTS WILL BE ACCEPTABLE. <u>HOWEVER, MANUFACTURED BENDS BENDS WILL NOT BE ACCEPTABLE.</u>
- 6. A CLOSET OR UTILITY ROOM MUST BE PROVIDED. $^{\mathrm{PAGE}}$ 109

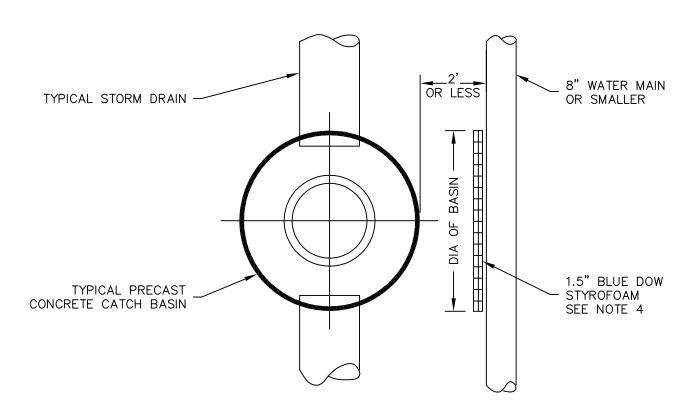
DRAWINGS COURTESY OF PENNICHUCK WATER WORKS.



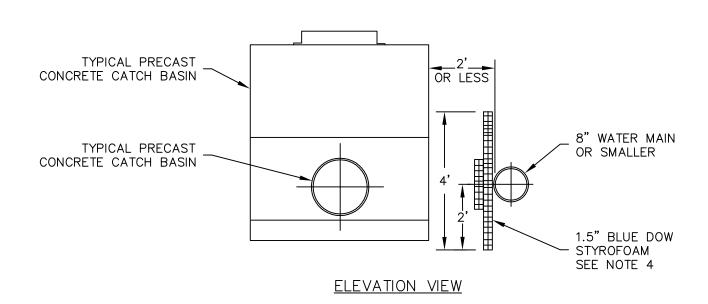
TOWN OF HUDSON 12 SCHOOL STREET HUDSON, NH 03051

DETAIL W-15 <u>WATER SLAB CONSTRUCTION</u>

REV: 2019 SCALE: NTS







- ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO TOWN OF HUDSON TECHNICAL SPECIFICATIONS.
- 2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
- 3. P.W.W., INC. RESERVES THE RIGHT TO MODIFY INSULATION REQUIREMENTS AS NECESSARY BASED ON FIELD CONDITIONS, ETC.
- 4. ALL BUTT JOINT SEAMS TO BE OVERLAPPED WITHPAGEPIECE OF INSULATION CENTERED OVER SEAM.

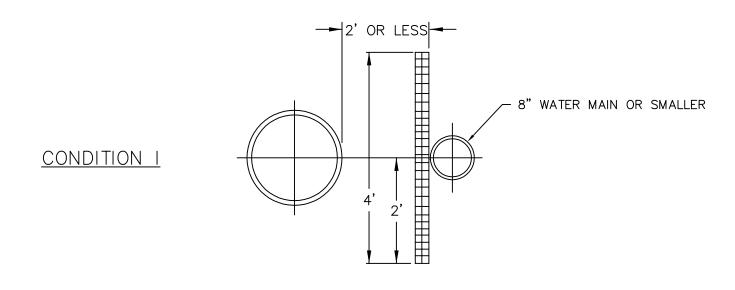
DRAWINGS COURTESY OF PENNICHUCK WATER WORKS.

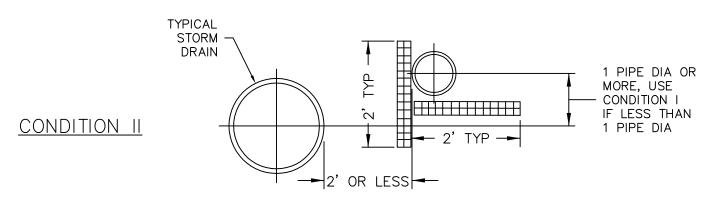


TOWN OF HUDSON 12 SCHOOL STREET HUDSON, NH 03051

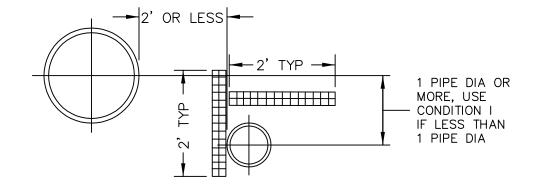
DETAIL W-16 *CATCH BASIN INSULATION*

REV: 2019 SCALE: NTS





CONDITION III



NOTES:

- 1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO TOWN OF HUDSON TECHNICAL SPECIFICATIONS.
- 2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
- P.W.W., INC. RESERVES THE RIGHT TO MODIFY INSULATION REQUIREMENTS AS NECESSARY BASED ON FIELD CONDITIONS, ETC.
- 4. INSULATION TO BE RUN HORIZONTALLY AS LONG AS CONDITIONS I, II, OR III ABOVE EXIST. ALL BUTT JOINT SEAMS TO BE OVERLAPPED WITH 1' PIECE OF INSULATION CENTERED OVER SEAM.
- 5. HITTER 1.5" (MIN) BLUE DOW STYROFOAM PAGE 111

DRAWINGS COURTESY OF PENNICHUCK WATER WORKS.



TOWN OF HUDSON 12 SCHOOL STREET HUDSON, NH 03051

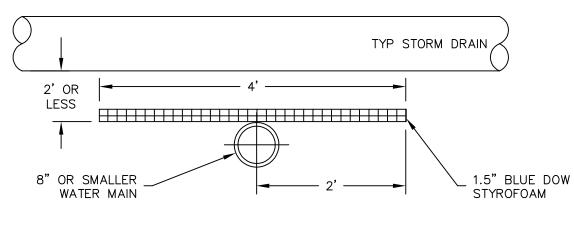
DETAIL W-17

<u>STORM DRAIN / WATER MAIN</u>

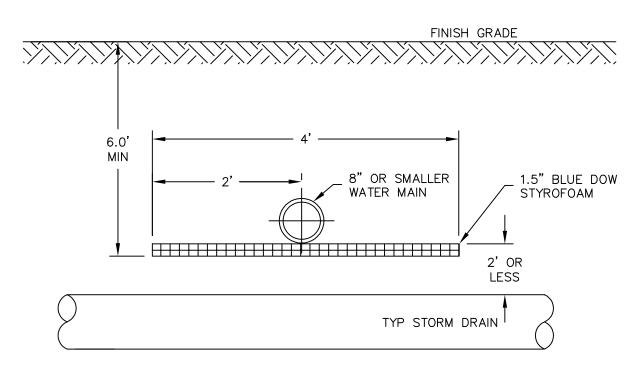
<u>PARALLEL RUNS - ELEVATION VIEW</u>

REV: 2019 SCALE: NTS





CONDITION I



CONDITION II

NOTES:

- 1. THE TOWN OF HUDSON RESERVES THE RIGHT TO MODIFY INSULATION REQUIREMENTS AS NECESSARY BASED ON FIELD CONDITIONS, ETC.
- 2. THE LENGTH OR WIDTH OF INSULATION SHALL EXTEND 1 STORM DRAIN PIPE DIAMETER BEYOND THE EDGE OF STORM DRAIN PIPE IN EACH DIRECTION OR A MINIMUM OF 2' BEYOND THE CENTERLINE OF THE STORM DRAIN PIPE, WHICHEVER IS GREATER.
- 3. ALL BUTT JOINT SEAMS TO BE OVERLAPPED WITH PAGE 112 PIECE OF INSULATION CENTERED OVER SEAM.

DRAWINGS COURTESY OF PENNICHUCK WATER WORKS.



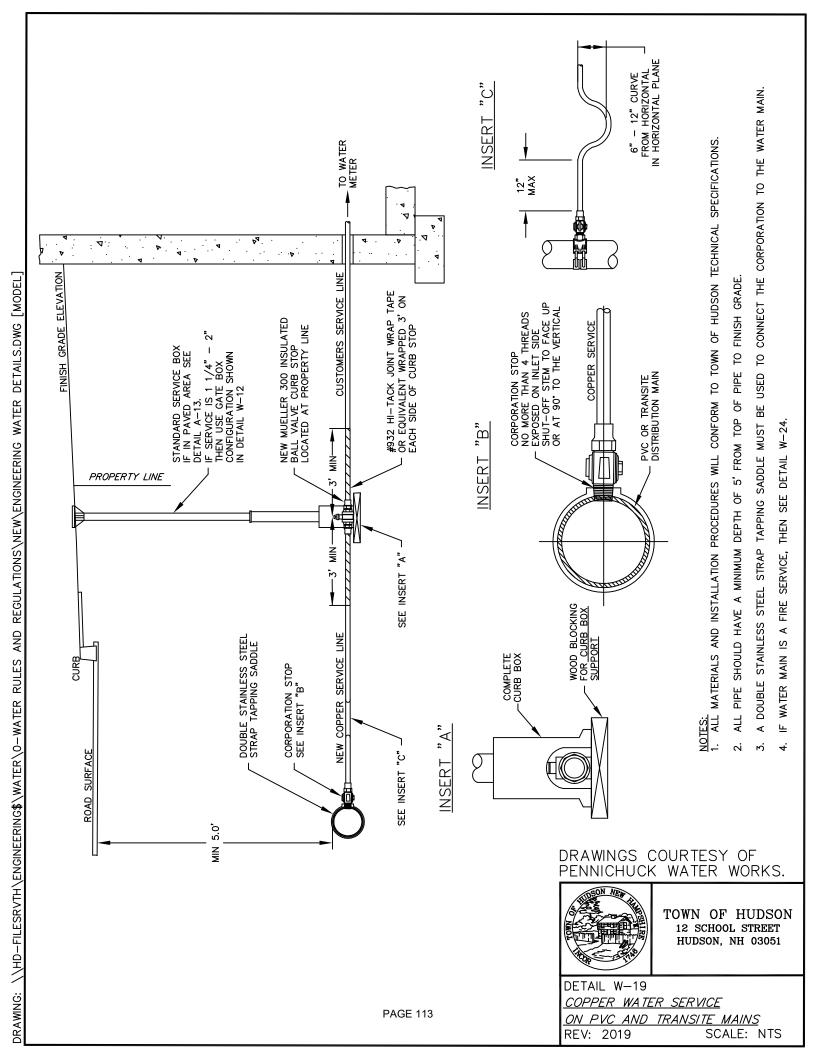
TOWN OF HUDSON 12 SCHOOL STREET HUDSON, NH 03051

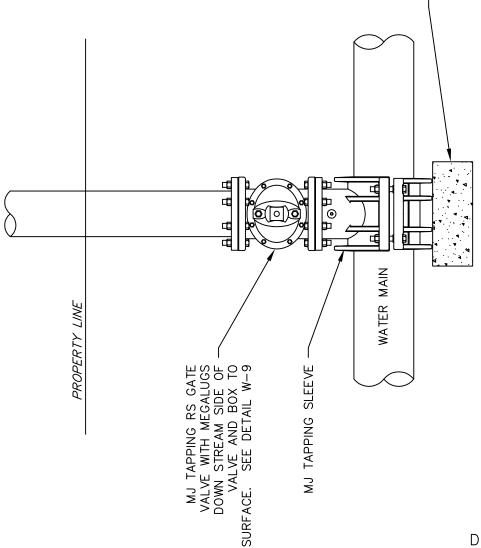
DETAIL W-18

<u>STORM DRAIN, WATER MAIN</u>

<u>INTERSECTING RUNS - ELEV. VIEW</u>

REV: 2019 SCALE: NTS





MIN 2'x2'x4' PRECAST CONCRETE
THRUST BLOCK MAY BE USED WITH
P.W.W. APPROVAL OR CONCRETE
THRUST BLOCK POURED AGAINST
UNDISTURBED EARTH — SIZE TO BE
BASED ON SIZE OF FITTING AND
PRESSURE IN WATER MAIN
SEE DETAIL W—7

DRAWINGS COURTESY OF PENNICHUCK WATER WORKS.

NOTES:

ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO TOWN OF HUDSON TECHNICAL SPECIFICATIONS.

PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM OF PIPE TO FINISH GRADE.

ALL TOP

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DETAIL W-22 FOR CROSS-SECTIONAL VIEW

SEE

3

PENNICHOCK

TOWN OF HUDSON 12 SCHOOL STREET HUDSON, NH 03051

DETAIL W-21 *LARGE WATER SERVICE CONNECTION*

REV: 2019

MIN 2'x2'x4' PRECAST CONCRETE THRUST BLOCK MAY BE USED WITH TOWN OF HUDSON APPROVAL OR CONCRETE THRUST BLOCK POURED AGAINST UNDISTURBED EARTH — SIZE TO BE BASED ON SIZE OF FITTING AND PRESSURE IN WATER MAIN. SEE DETAIL W—7. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO TOWN OF HUDSON TECHNICAL SPECIFICATIONS. ALL THREADED RODS AND NUTS MUST BE STAINLESS STEEL ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF SEE NOTES: 3 4. $\ddot{\circ}$ S.

TO FINISH GRADE.

PIPE

5' FROM TOP OF

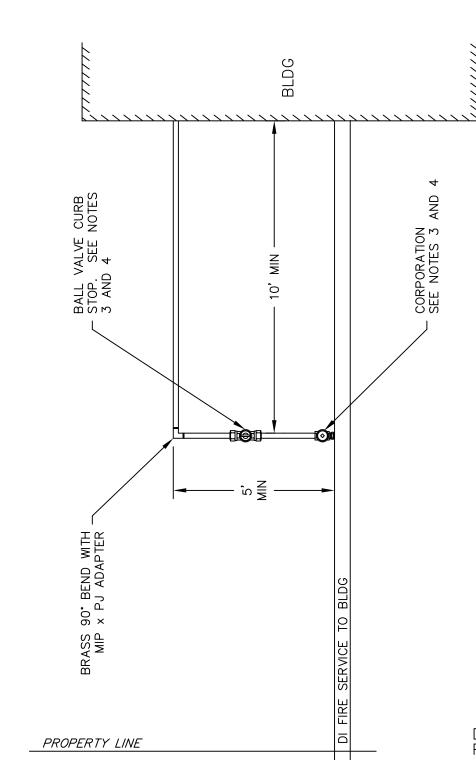
TOWN OF HUDSON 12 SCHOOL STREET HUDSON, NH 03051

DETAIL W-23 FOR FIRE SERVICE INSTALLATION WITH SLAB FOUNDATIONS.

W-22 SERVICE INSTALLATION STANDARD FOUNDATIONS 2019 SCALE: NTS REV:

DRAWINGS COURTESY OF PENNICHUCK WATER WORKS.

3



DRAWINGS COURTESY OF PENNICHUCK WATER WORKS.

SEE DETAIL W-20 FOR 1" SERVICE AND VALVE BOX INSTALLATION DETAIL.

SERVICE AND VALVE BOX

2,

SEE DETAIL W-12 FOR 1 1/4" INSTALLATION DETAIL.

4.

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SEE DETAIL W-11 FOR OUTSIDE SERVICE ENTRANCE PLAN VIEW.

FROM TOP OF

OF 5'

ALL PIPE SHOULD HAVE A MINIMUM DEPTH PIPE TO FINISH GRADE.

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ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.



TOWN OF HUDSON 12 SCHOOL STREET HUDSON, NH 03051

DETAIL W-24 *DOMESTIC WATER SERVICE TAPPED OFF FIRE SERVICE* REV: 2019 SCALE: NTS

. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO TOWN OF HUDSON TECHNICAL SPECIFICATIONS.

2. PRV WHEN NECESSARY WILL BE INSTALLED AND PURCHASED BY OWNER OR CONTRACTOR.

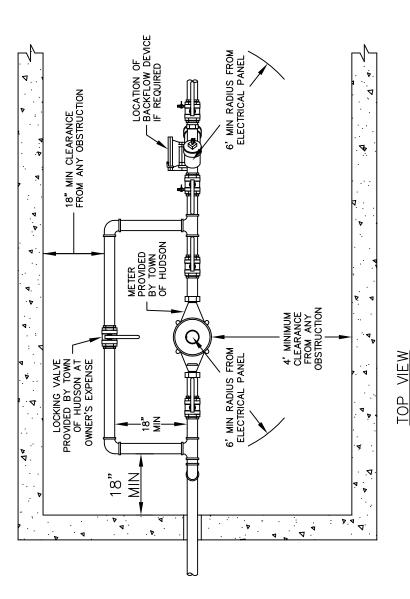
 $1 \frac{1}{2}$ METER = 13" LAYING LENGTH.

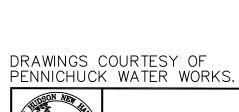
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4. 2" METER = 17" LAYING LENGTH.

5. SEE DETAIL W-27 FOR COMBINED FIRE AND DOMESTIC SERVICE ENTRANCE DETAIL.

6. ANY ELECTRICAL PANEL MUST MAINTAIN A 6' MINIMUM RADIUS FROM METER AND BACKFLOW.





MAX

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METER SUPPORTS

> MAX MAY

3, ∿ 4'–6"

RISER LOCATION

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<u> JANOIT90</u>

SIDE VIEW

FLANGE VALVES
PROVIDED BY TOWN
OF HUDSON AT
OWNER'S EXPENSE

± 26 €

OPTIONAL 90° VERTICAL BYPASS

TOWN OF HUDSON
12 SCHOOL STREET
HUDSON, NH 03051

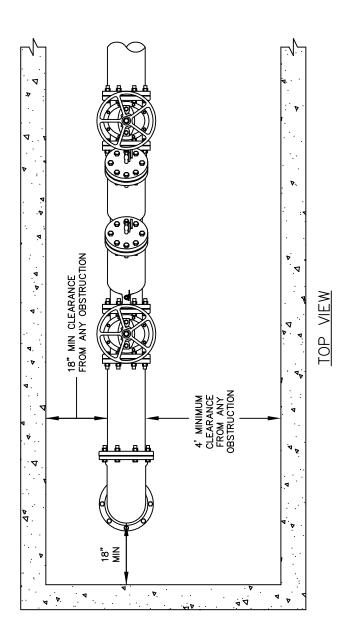
DETAIL W-25 <u>1 1/2" THRU 2" WATER</u> <u>SERVICE ENTRANCE</u> REV: 2019 SCALE: NTS

PAGE 119

. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO TOWN OF HUDSON TECHNICAL SPECIFICATIONS.

2. BACKFLOW PREVENTOR REQUIRED ON ALL FIRE SERVICES. TYPE AND LOCATION SUBJECT TO P.W.W. APPROVAL.

3. SEE DETAIL W-27 FOR COMBINED FIRE AND DOMESTIC SERVICE ENTRANCE DETAIL.



DRAWINGS COURTESY OF PENNICHUCK WATER WORKS.



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TOWN OF HUDSON 12 SCHOOL STREET HUDSON, NH 03051

/ TYPICAL CONCRETE BLOCK, POURED IN PLACE, PRECAST, OR METAL SUPPORTS

SIDE VIEW

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18" 24"

DETAIL W-26 FIRE SERVICE ENTRANCE

REV: 2019 SCALE: NTS

PAGE 120

. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO TOWN OF HUDSON TECHNICAL SPECIFICATIONS.

2. PRV WHEN NECESSARY WILL BE INSTALLED AND PURCHASED BY OWNER OR CONTRACTOR.

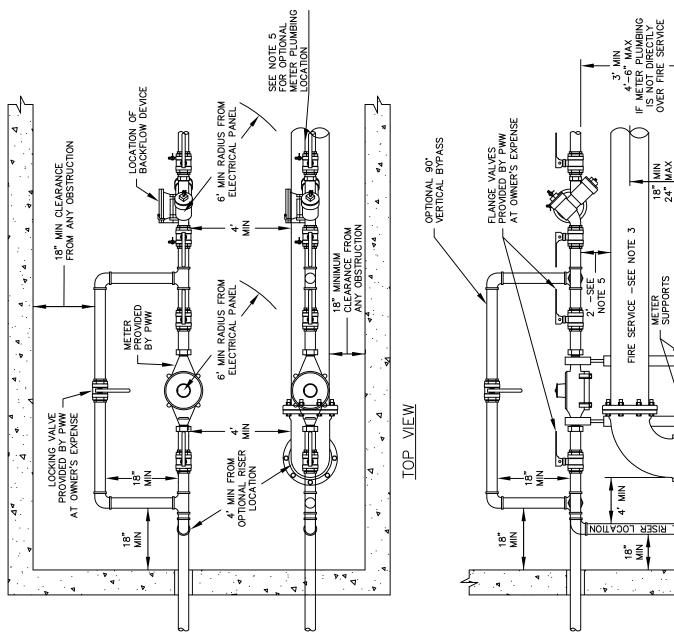
3. BACKFLOW PREVENTOR REQUIRED ON ALL FIRE SERVICES. TYPE AND LOCATION SUBJECT TO P.W.W. APPROVAL. SEE DETAIL W-26.

4. ANY ELECTRICAL PANEL MUST MAINTAIN A 6' MINIMUM RADIUS FROM METER AND BACKFLOW.

5. METER PLUMBING MAY BE INSTALLED DIRECTLY OVER THE FIRE SERVICE PROVIDED THAT 2' CLEARANCE IS MAINTAINED AND 4' MINIMUM CLEARANCE FROM ANY OBSTRUCTION IS ALSO MAINTAINED.

6. $1 \frac{1}{2}$ " METER = 13" LAYING LENGTH.

7. 2" METER = 17" LAYING LENGTH.



DRAWINGS COURTESY OF PENNICHUCK WATER WORKS.



TOWN OF HUDSON 12 SCHOOL STREET HUDSON, NH 03051

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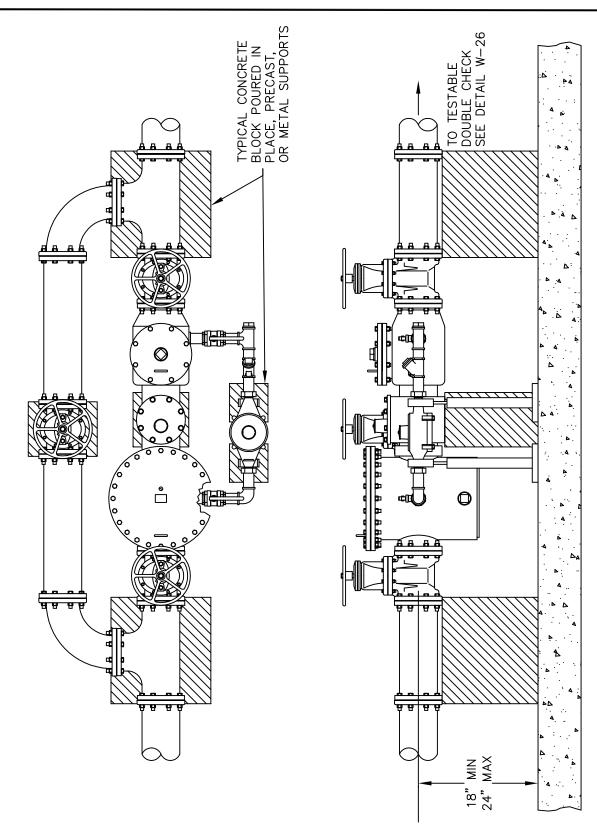
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SID'F VIFW

DETAIL W—27 COMBINED FIRE DOMESTIC WATER SERVICE ENTRANCE

WATER SERVICE ENTRANCE
REV: 2019 SCALE: NTS

PAGE 121



ALL MATERIALS AND INSTALLATION PROCEDURES
 WILL CONFORM TO TOWN OF HUDSON TECHNICAL SPECIFICATIONS.

PAGE 122

DRAWINGS COURTESY OF PENNICHUCK WATER WORKS.

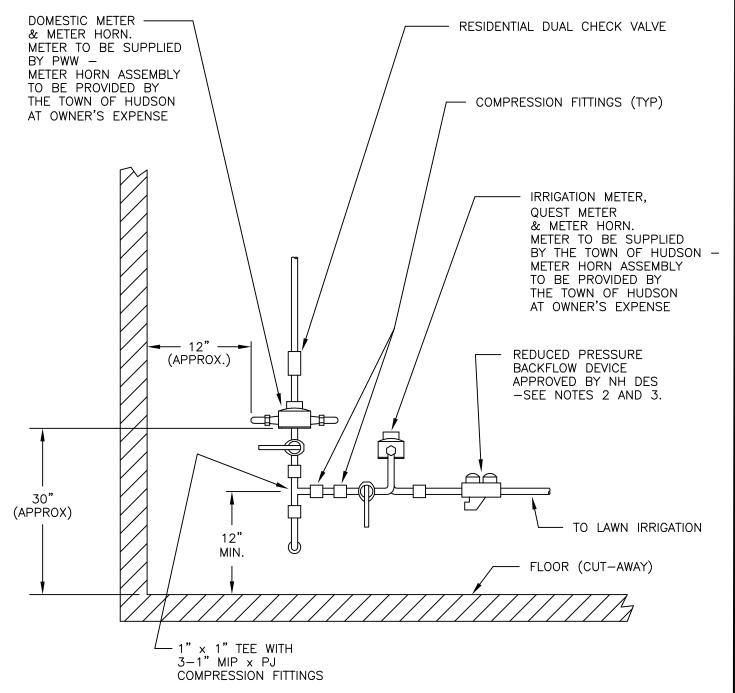


TOWN OF HUDSON 12 SCHOOL STREET HUDSON, NH 03051

DETAIL W-28 *FIRE SERVICE*

<u>WITH YARD HYDRANTS</u>

REV: 2019 SCALE: NTS



- ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO THE TOWN OF HUDSON TECHNICAL SPECIFICATIONS.
- 2. REDUCED PRESSURE BACKFLOW DEVICE MUST BE INSTALLED OUTSIDE WHERE SERVICE EXITS HOUSE, OR A POSITIVE DRAIN BE INSTALLED IN BASEMENT.
- 3. A PRESSURE VACUUM BREAKER CAN BE INSTALLED INSTEAD OF A REDUCED PRESSURE BACKFLOW DEVICE, PROVIDED THE PRESSURE VACUUM BREAKER IS INSTALLED A MINIMUM OF 18" HIGHER THAN THE PAGE 124 HIGHEST SPRINKLER HEAD.

DRAWINGS COURTESY OF PENNICHUCK WATER WORKS.



TOWN OF HUDSON 12 SCHOOL STREET HUDSON, NH 03051

DETAIL W-30

DOMESTIC IRRIGATION WATER

SERVICE METER INSTALLATION

REV: 2019 SCALE: NTS

Exhibit 10

Water Line Extension Form

AGREEMENT

_	WATER SYSTEM EXTENSION
with an	AGREEMENT is made day of, 20, by and between (<i>the applicant</i>), and address of and the Town of Hudson, a municipal ation of Hillsborough County, New Hampshire, with offices at 12 School Street, Hudson, New Shire 03051 (the "Town").
	RECITALS:
1.01	(<i>The applicant</i>) is the owner of certain real estate situated in Hudson, Hillsborough County, New Hampshire, with an address of, and shown as Map, Lot on the Town of Hudson Tax Maps (the "Premises").
1.02	Presently, the Town's water system extends along Road to a point approximately feet from the common boundary line between the Premises and Lot to the of the Premises.
1.03	desires to extend the Town's water system to the Premises and then further extend the Town's water system through the Premises as shown on the Subdivision Plan for the purpose of providing water to Lot as shown on the Subdivision Plan.
	Agreement to do Work
2.01	The parties agree that the recitals set forth above are true, accurate and complete.
2.02	 (The applicant) shall cause the following work to be undertaken and completed the (project) "Work": 2.02.1 The installation of a inch water main from the end of the existing town water main located on Road to the Premises. Such inch water main shall be located on the Premises within the Proposed access Access and Utility Easement as shown on the Subdivision Plan.

	construction by the All such work shall be undertaken in coordination with the and the Town of Hudson Town Engineer. All such work shall be approved as to quality and workmanship by the Public Works Department and the Town of Hudson Town Engineer.
	Preliminary or Related Matters
	(<i>The applicant</i>) shall covey easements to the town of Hudson for the proposed Access and Utility Easement as shown on the Subdivision Plan in form and substance satisfactory to the Town of Hudson, (see attached standard form).
	Inspections
4.01	(The applicant) shall pay all applicable fees and inspection costs related to the Work.
	Certain Fees/Bonding
	(<i>The applicant</i>) shall pay any and all hook-up assessments or extension fees including capital assessment fees to provide municipal water service to the Premises.
	Prior to the commencement of Work, (the applicant) the Town (through its Board of Selectmen), and shall establish mutually acceptable amounts for the bonding of Work.
	Prior to the commencement of Work, (the applicant) shall provide the Town with a bond, letter of credit or combination thereof to constitute the surety for the Work.
	General
	(<i>The applicant</i>) has appended hereto a certificate of authority confirming that it has authorized certain duly authorized agents and/or employees of to enter into this Agreement on behalf of and bind hereto.
	The Town represents to (<i>the applicant</i>) that its Board of Selectmen are duly authorized to approve this Agreement on behalf on the Town and bind the Town hereto.
	This Agreement is a complete and accurate statement of the agreement between the parties and any and all prior agreements, representations, understandings, oral or written by and between the parties with respect to the subject matter hereof, are hereby expressly superceded, and this Agreement constitutes the entire agreement of the parties with respect to the subject matter hereto.

Water Line Extension Form.docx

executed by their respective representatives the date first set forth above. Witness Duly Authorized Owner Town of Hudson its Board of Selectman Witness Duly Authorized Selectmen By: _____ Witness Duly Authorized Selectmen Witness Duly Authorized Selectmen Witness Duly Authorized Selectmen Witness

This Agreement shall be governed by and construed in accordance with the law of the State of

IN WITNESS WHEREOF, the Town and (the applicant) have caused this Agreement to be duly

New Hampshire without regard to its conflict of law rules or principles.

6.04

 $\hdefiles rvth \end{argune} Water \end{argune} AND REGULATIONS \end{argune} Note that the Extension Form. docx \end{argune} AND REGULATIONS \end{argune} Note that the extension Form. docx \end{argune} AND REGULATIONS \end{argune} Note that the extension Form. docx \end{argune} Note that the extension Form. The$

Duly Authorized Selectmen

Exhibit 11 Water Line Acceptance

WATER LINE ACCEPTANCE PROCEDURES

The following items are required to apply for a new Water Line Acceptance:

- 1. Water Acceptance Application
- 2. Water Easement Deed (A sample copy may be obtained at the Engineering Office)
- 3. Hold Harmless Agreement (If area is private, this will not be needed.)
- 4. As-Built Plan
- 5. Copy of Water Leakage Testing and Bacteria Test
- 6. Bond for 10% of the cost for the main for one year (one year warranty)

A project inspector will go out and inspect the water lines to ensure all work has been completed.

Once completed, make a copy of the package and create a memo to the Municipal Utilities Committee (MUC) for acceptance. The MUC meets on the third Tuesday of each month. The Water Acceptance Application will need to have everyone's signature on it for approval.

Once the application has been approved by the MUC, they will forward a recommendation to the Board of Selectmen for approval.

Once the application has been approved by the BOS, the applicant will be allowed to apply for Water Permits on the approved lots.

Rev 1/6/2020

Exhibit 12

Notice of Water Acceptance Application

"NOTICE OF WATER ACCEPTANCE"

1.	The water line as described herein:				
	Project Name:	_ Contractor:			
	Owner:	_			
	Street and Station (Location):		_		
	Has been inspected and tested and is in compliance with the construction (inspection and test report on file with the DPW		n requirements for water		
2.	Portions which are <u>Public Water</u> are described as (attach legal documentation) and are so dedicated as such:				
3.	Portions which are <u>Private Water</u> are described as:				
4. The following sites/lots/units which have "accessibility" are: (list by Tax Map & Lot #'s)		ap & Lot #'s)			
5.	Access fees for these lots/sites are to be assessed as of	scribed water(s) ne Town of Hud	has been constructed in son, and I further understand and		
	Owner		Date		
6.	In accordance with the above stipulation and description, this	s water is recomi	mended for acceptance.		
	Town Engineer or Authorized Agent		Date		
	Public Works Director or Authorized Agent		Date		
7.	In accordance with the above stipulations and descriptions, this water is hereby recommended for <u>Acceptance</u> by the Municipal Utility Committee and is subject to all rules and regulations and fees of the Hudson Water				
	Utility.		Approved at meeting of:		
	MUC Chairman		Date		
8.	Water Accepted by Water Utility and Town of Hudson		Approved at meeting of:		
	Board of Selectmen Chairman		Date		
cc:	Owner Water Foreman Town Engineer	Building Inspector	Planning Board		

Exhibit 13

Hold Harmless Agreement

HOLD HARMLESS AGREEMENT

company with its principal office a
, in consideration of the review and pshire of (1) certain as-built utility plans
opshire of (1) certain as-built utility plans
ame entitled
ameentitled d Profiles," and "Utility As-Built Plan and ng Firm of the
ng Firm
-built plan for of the
, hereby agrees to hold the Town o
or damage to the roadways or utilities
components such as trench drain, ir
the water mains dedicated to the Towr
rmless Agreement shall remain in effec
epted by the Town of Hudson.
By Developer Name
By:
By: Print Name/Signature
-
GMENT
act and deed.
act and deed.
Public
nmission Expires:

Exhibit 14 Water Easement Deed Template

WATER EASEMENT DEED

the GRANTOR, for v	failuable consideration received, grants and
conveys with Warranty Covenants to the Tow	n of Hudson, a New Hampshire Municipal
Corporation with offices at Town Hall, 12 Scl	hool Street, Hudson, Hillsborough County,
State of New Hampshire, the TOWN, an ease	ment in, over, under and through a certain
tract of land situated in the Town of Hudson,	
Hampshire. The easement areas are shown or	n a plan entitled "Consolidation and
Subdivision Plan".	Hudson, New Hampshire,
Subdivision Plan", Prepared for	, Dated,
Prepared by	Being recorded at the
Prepared byHillsborough County Registry of Deeds as Pla	an No The easements are
described as a portion of a foot wide Right of	Way labeled as and
more specifically described in the attached Ex	thibit A.
The purpose of this conveyance is to grant an ease construct, build, install, maintain, repair, improve the transportation of water and to provide access t	, remove, replace and/or rebuild a water line for
The GRANTOR shall not make any improvement interferes with or will interfere with the TOWN's	
The TOWN, its employees, and its agents have th workers, equipment and materials in order to inspeasement purposes.	
The rights, conditions, restrictions and duties crea accrue to and be binding on the successor's-in-int the TOWN.	
Witness	By:Duly Authorized
ACKNOWL	EDGMENT
STATE OF NEW HAMPSHIRE	

PAGE 145

COUNTY OF HILLSBOROUGH

On this, before me personand acknowledged the foregoing instrum	7 11	
	Notary Public	
	My Commission Expires:	



TOWN OF HUDSON

Recreation Department



12 School Street

Hudson, New Hampshire 03051 • Tel: 603-886-6008 • Fax: 603-816-1291

TO:

Steve Malizia, Town Administrator

Board of Selectmen

FROM:

Elvis Dhima, P.E.

Dave Yates

DATE:

January 29th, 2020

RE:

Engineering Assessment Update – Liberty Field

The Board of Selectmen requested an engineering assessment of Liberty Field, which was completed recently.

The assessment summery is listed below:

- 1. Water puddling appears to be caused by site runoff from the parking lot and access driveway, off site runoffs and ground water.
- 2. Estimated ground water elevation in the mid field was found at 35 inches deep, but is expected to be higher during the spring season.
- 3. The top loam layer is very rich soil and does not drain well.
- 4. Recommendations include conducting an engineering design, for up to \$20,000, to design lifting the field by a foot, installing swales on the sides and around the parking area to redirecting runoffs from the field.
- 5. Cost estimate for the above, would be \$200,000.

Based on this information below are the options available at this time.

Option 1.

Move forward with the recommendations listed above.

Option 2.

Go out to bid for the design phase, which will be based on 2020 spring conditions, to determine the most cost efficient design to address the wet conditions of the field.



GEOTECHNICAL INVESTIGATION & SUMMARY REPORT FREEDOM FIELDS 190 DERRY ROAD HUDSON, NEW HAMPSHIRE

Prepared for:

Mr. Elvis Dhima P.E. Town of Hudson, New Hampshire 12 School Street Hudson, New Hampshire 03051

Prepared by:

Wilcox & Barton, Inc. 2 Capital Plaza, Suite 305 Concord, New Hampshire 03301 Contact: Erin R. Lambert, PE, (603) 369-4190 x527

December 30, 2019

Wilcox & Barton, Inc. Project No.: HUDS0001

CERTIFICATION

The following personnel have prepared and/or reviewed this report for accuracy, content, and quality of presentation.

i

Geotechnical Investigation & Summary Report Document:

ERIN R. LAMBEP No. 11' Freedom Fields, Hudson, New Hampshire

December 30, 2019 Date/Version:

Erin R. Lambert, P.E., LEED AP

Associate Vice President, Senior Engineer

James P. Ricker, P.G.

Vice President

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1.0 BACKGROUND

The Town of Hudson constructed a multi-use athletic field in 2017, located at Hills Garrison Elementary School. The field is west and downhill of the original two fields at the site. The location of the site is shown on Figure 1 - Site Location Map and site details are depicted on Figure 2 – Site Plan with Approximate Location of New Features Since Field Construction. In 2018, the field experienced ponding on its east side and adjacent areas. This report will explore possible reasons for the ponding on the field and state some alternatives to mitigate it.

2.0 EXISTING CONDITIONS

The site consists of a 230'x265' grass athletic field, two small sheds, a gravel parking area and a gravel driveway for site access from the original fields at the top of the hill. There are no drainage improvements on the site. The parking lot is graded to drain towards the driveway, where runoff then continue down the driveway and ponds on the east side of the field. The flow concentrates to the extent that there is visible erosion at the bottom of the driveway. Impervious ground cover does not allow for stormwater to be infiltrated into the ground, which means that since the parking lot is pitched towards the driveway, and the driveway is pitched towards the field, nearly all of the rain that falls on the parking lot and driveway are directed to the low point on the east side of the athletic field. This area is approximately 20,000 square feet.

3.0 FIELD INVESTIGATION

3.1 Site Soils

Geotechnical Services Inc. (GSI) conducted a field investigation to assess the soil conditions and permeability within the athletic field. They prepared a report summarizing the results of the in-situ soils properties of the soils on the site. The investigation included auguring six shallow holes along the perimeter of the field, one near each corner, and two at the ends of the midline of the field. During the tests, dark brown coarse to medium sand was found to a depth of about six inches below ground surface (bgs), tan fine to coarse sand was found at depths of about 6 to 12 inches bgs, and brown fine to coarse sand was found from about 12 to 24 inches bgs. In Test Hole #5, ground water was observed at 35 inches below the surface. Standing water was observed in other test holes as well between excavation and backfill. Whereas November is typically a time of year when the water table is low, groundwater may be present closer to the ground surface at other times of year. GSI observed the field surface to be uneven with patchy, sporadic vegetation, which may result from an overly saturated surface that is subject to increased wear. Photographs of the site are included in Appendix A. Observations for each test hole are presented in the full technical report included in Appendix B and summarized in Section 4.0 below.

3.2 Guelph Permeameter Testing

The Guelph Permeameter test was employed to measure the permeability of the athletic field soils. The Guelph Permeameter is a constant head permeameter that utilizes a syphon principal to measure the in-situ saturated hydraulic conductivity. The Guelph Permeameter testing yielded



field saturated hydraulic conductivity rates within a range of 0.1 to 1.5 inches per hour. Saturated hydraulic conductivity was observed to be highest at the northwest corner of the field and decreasing rapidly toward the east and south. Minimal infiltration was noted in test hole locations #5 and #6. It is likely that the shallow groundwater observed on site influences the permeability rates, slowing them further.

3.3 Laboratory Testing

GSI collected a series of seven samples and delivered them to the GSI laboratory in Weare, New Hampshire. The topsoil was determined to contain 32 to 34 percent silt. The underlying sands had a highly variable silt content of between 5 and 26 percent. Although three out of four sieves conducted on the sands indicated a silt content less than 10 percent, the difficulty in infiltrating through the overlying soils, the quantity of runoff which reaches the field area, and the proximity to groundwater are all assumed to negatively affect the draining characteristics of the athletic field.

4.0 OBSERVATIONS

The following are observations made during visits to the site, and include comments on how they may affect drainage:

- A new gravel parking lot has been constructed upgradient of the athletic field to the east. The parking lot is graded south towards the driveway and no drainage controls were observed on the site. The additional impervious area increases the rate and volume of stormwater on the site;
- The slope of the driveway is moderate to steep with no drainage controls; therefore, stormwater tends to concentrate and channelize and erosion was observed in the driveway in these areas. The path of stormwater is toward the southeast corner of the athletic field, which is a low point;
- A topographic depression is visible at the site along the east side of the field;
- There was little to no grade change observed along the north and south sides of the field; therefore, stormwater does not drain out of the area; and
- The slope across the field from east to west appears to be nearly flat.

5.0 RECOMMENDATIONS

The geotechnical investigation confirmed that the site soils are poorly drained and the groundwater table is high. In addition to the geotechnical findings, stormwater plays a large role in the ponding issue on the field. Stormwater ponds on the east end of the field from the combination of upgradient impervious surfaces (parking lot and driveway), steep slopes, lack of drainage controls and poorly drained soils.



To address the stormwater issues, we recommend the following:

- Obtain an existing conditions survey, including topography of the as-built conditions.
- Prepare an existing drainage model to confirm the upgradient contributing drainage area and further understand how stormwater flows through the site and where it ponds.
- Prepare a proposed drainage model and design stormwater controls to eliminate stormwater from the upgradient area flowing onto the athletic field. Based on field observations and the construction plans for the athletic field, we anticipate the following Best Management Practices (BMPs) to control stormwater:
 - Construct a swale along the western edge of the gravel parking area, draining to the woods at the northern property line;
 - o Grade the parking area away from the driveway and towards the new swale;
 - o Grade the portion of the road shown in the site plan towards the swale; and
 - Utilize the grade change on the south side of the field to form a swale, draining to the west side of the field.

To address the soils in the athletic field, we recommend the following:

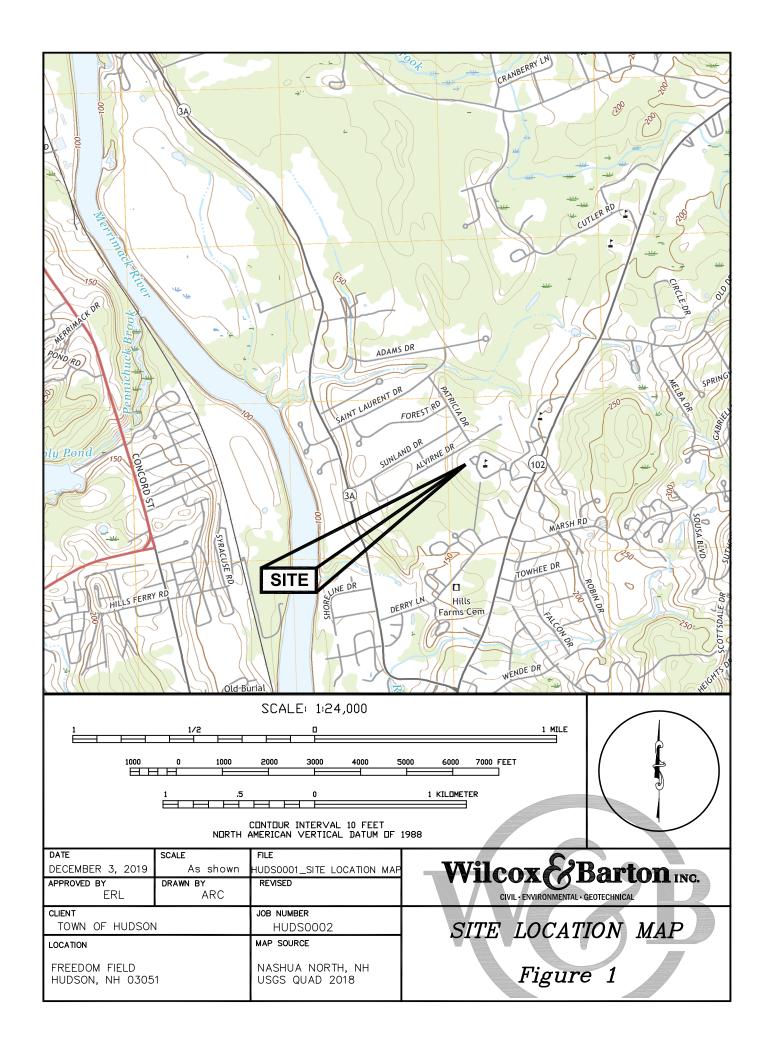
- Obtain an existing conditions survey including topography of the as-built conditions;
- Regrade the field if a positive 1% slope does not exist across the field from east to west;
- Install underdrains beneath the field to daylight on the north side of the field in order to lower the groundwater elevation beneath the field; and
- Based on the results of the existing conditions survey, it may be necessary to raise the elevation of the field to provide enough elevation different to daylight the underdrains.

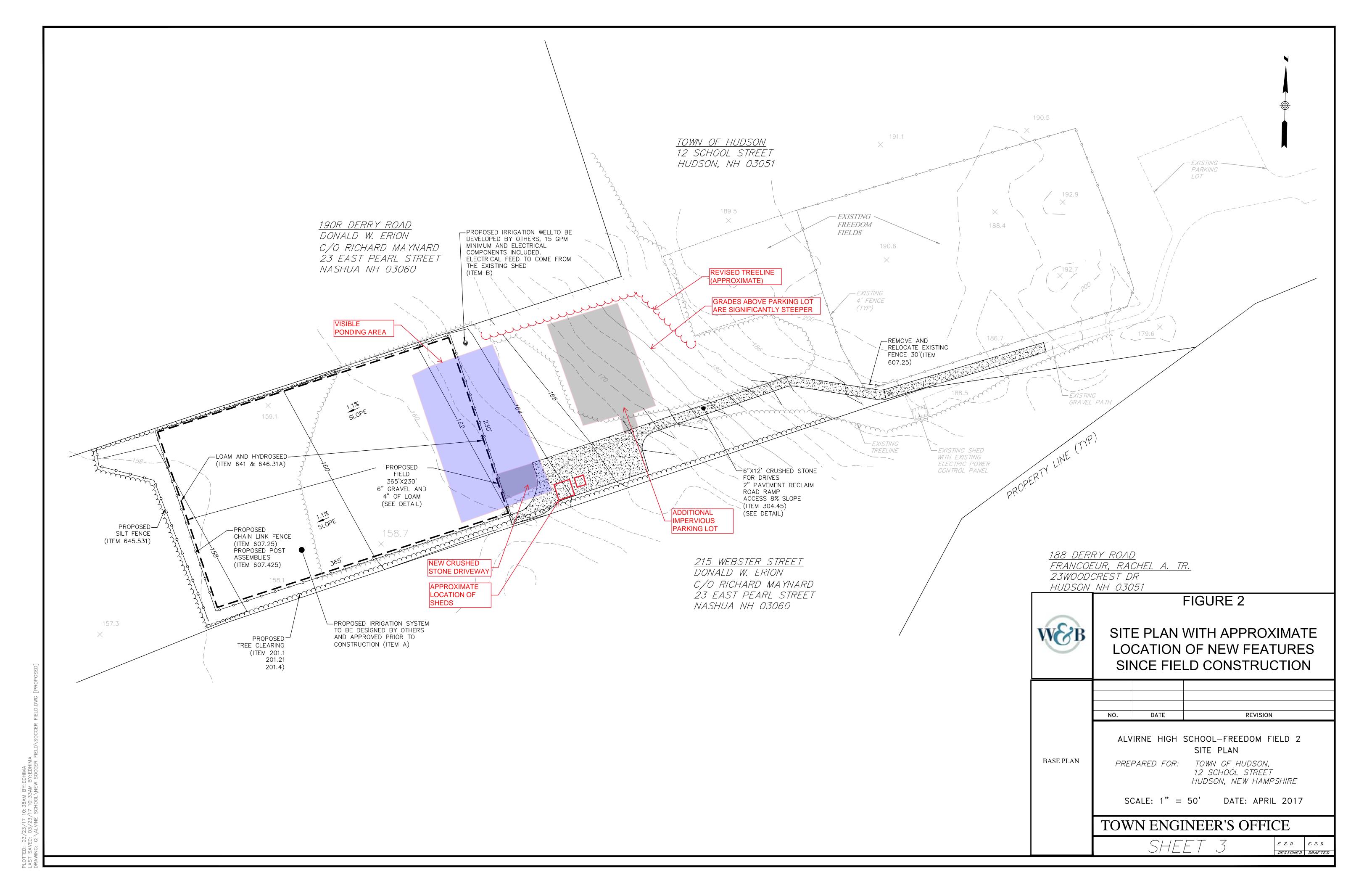
An underdrain system would consist of 6-inch HDPE perforated pipes surrounded by crushed stone and wrapped in filter fabric. To provide an estimated cost for the above-recommended improvements, we have assumed an underdrain system comprised of 4 6-inch pipes installed the width of the field (235 feet). We have also assumed the grade change would be 2 feet at the east end of the field and 1 foot at the west end of the field for an average grade change of 1.5 feet. To assist with evaluating the recommended improvements and budgeting, estimated construction costs are included on Figure 4 – *Engineers Cost Estimate*.

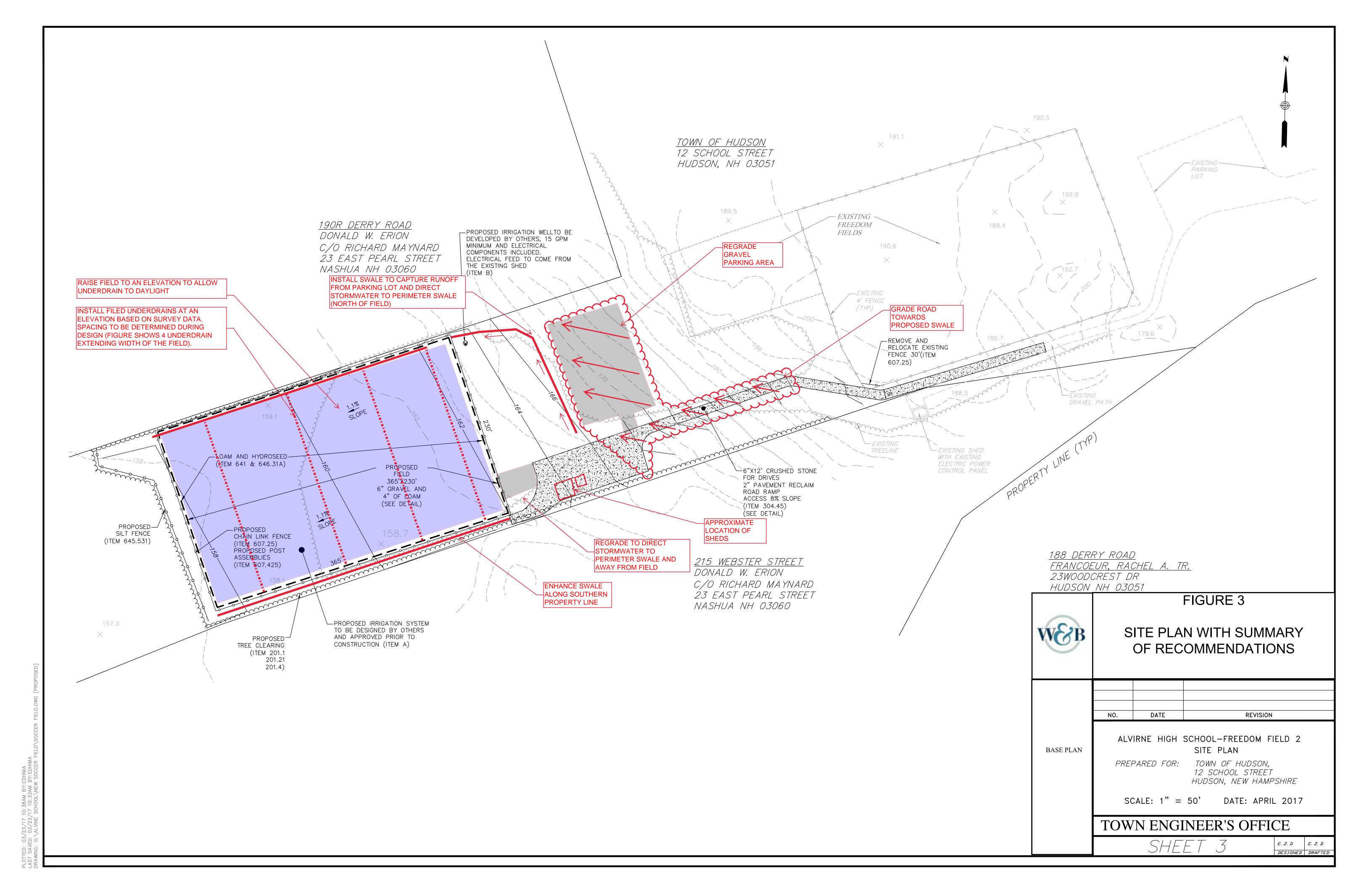


FIGURES









Freedom Field Improvements Figure 4 - Engineers Estimate (12/30/2019)

	U	nit		Unit	Price	Es	timated Cost
Moblization (5%)	1	LS	\$	7,971	LS	\$	7,971
SWPPP & Erosion Control	1	LS	\$	5,000	LS	\$	5,000
Raise Grade							
Strip/Stockpile Topsoil	1	LS	\$	5,000	I F	\$	5,000
Sand (Assume 1.5 feet)	3,460		\$	•	LF	\$	86,493
Top Soil - Screen, Place	870		\$		CY	\$	21,759
Hydroseed		LS	\$	3,000		\$	3,000
nyanoseea	_		Y	3,000	23	7	3,000
<u>Underdrain</u>							
Solid HDPE	300	LF	\$	12	LF	\$	3,600
HDPE Perforated Pipe	940	LF	\$	12	LF	\$	11,280
3/4" Crushed Stone	78	CY	\$	30	CY	\$ \$ \$	2,350
Filter Fabric	940	LF	\$	1	LF	\$	940
	Subtota	ıl: Ra	ise Grade &	Install	Underdrain	\$	134,422
Upgradient Drainage Improvement	ents						
Regrade Driveway and Parking L	.ot						
Enhance Perimeter Swale							
Loam & Seed Disturbed Areas							
S	ubtotal: L	Jpgra	adient Draina	age Imp	rovements	\$	25,000
					Subtotal	\$	172,393
			(Conting	ency (20%)	\$	34,478.69
					, , ,	<u> </u>	
			Estimated	Constr	uction Cost	\$	206,872.12
Estimated Engineering Costs							
Existing Conditions Survey						\$3,0	00 - \$5,000
Site Design (incl. Drainage Mode	el)						000 - \$12,000
Construction Documents							00 - \$3,000
			Estimated	Engine	ering Costs		000 - \$20,000

Constrution Assumptions

Raise grade 2 ft. on east end, 1 ft at west end. Average grade change 1.5 ft Underdrain: 4 drains across field (north to south) connected along north end Recommend 20% contingency. Following design contingency can be reduced to 10%



APPENDIX A

Site Photos



Site PhotographsFreedom Athletic Field Hudson, New Hampshire



Photo 1: Drainage to depressed area. Looking northeast from the gate to the field



Photo 2: View up driveway, looking east from gate to field



Site PhotographsFreedom Athletic Field Hudson, New Hampshire



Photo 2: Visible erosion from flow concentration



Photo 5: Drainage from two sides toward depression



Photo 3: Parking lot drainage directed toward driveway



Photo 5: View northward down east fence



APPENDIX B

Geotechnical Report



🚄 Geotechnical Engineering 🚄 Environmental Studies 🚄 Materials Testing 🚄 Construction Monitoring 🚄

December 4, 2019

Erin Lambert Wilcox & Barton, Inc, 57 Hoit Road Concord, NH 03301

RE: Field Investigation and Guelph Permeameter Testing

Freedom Fields Derry Road Hudson, New Hampshire

GSI Project No. 219291

Geotechnical Services, Inc. (GSI) submits this letter report in connection with the November 27, 2019 site visit by GSI to sample in-situ soils and conduct Guelph Permeameter testing at the project site located in Hudson, New Hampshire.

BACKGROUND

The Freedom Fields project is located southwest of the Hills Garrison Elementary School at 190 Derry Road in Hudson, New Hampshire. The fields are accessed by a gravel drive south of the school. The original Freedom Fields were constructed south of the school at the top of a large hill. Following the completion of these fields, the town financed the construction of an additional multi-use field west and downhill from the first set of fields. The new Freedom field lies 40 feet lower in elevation than the fields at the top of the hill. The field as defined by the civil plan set consists of a 365 by 230-foot field built utilizing 6-inches of gravel and 6-inches of loam. Site development details and grading information are contained on the civil plan set entitled "Town of Hudson, New Hampshire – Freedom Fields -2," prepared by the Town of Hudson, New Hampshire dated April 2017.

Since the field was constructed, it has been observed that stormwater runoff from the slope uphill from the field is directed toward the field due to the site topography. The gravel road built to access the field has eroded due to the runoff. The runoff water has been documented to collect and pond on the field surface saturating the field surface for extended periods of time. A crushed stone pad was constructed adjacent to the field entrance, presumably due to ponding of water by the gate.





△ 55 North Stark Highway Weare NH △ 603/529/7766

∠ FAX 603/529/7080





View of athletic field from the gravel access drive

FIELD INVESTIGATION

An on-site field investigation was undertaken to assess the soil conditions and permeability within the athletic field. A series of six (6) shallow test holes were advanced to depths of 2 to 3 feet below existing grades. The composition and stratiography of the soils were documented, and samples were collected for grain size analysis. The samples were classified according to the Burmister classification system. Test hole locations are depicted on the attached Figure 1.

Field descriptions of the soils encountered, observed depth to groundwater when observed, and other pertinent observations are as follows:

Test Hole #1 (Northwest corner of the athletic field)

0 to 6": Dark brown, damp, fine to medium Sand, some Silt, trace small roots 6" to 8": Light gray/brown, damp, fine to coarse Sand, little Gravel, little Silt 8" to 24"+: Brown, damp, fine to coarse Sand, little Silt, trace Gravel

Test Hole #2 (North and center of the athletic field)

0 to 7": Dark brown, damp, fine to medium Sand, some Silt, trace small roots 7" to 12": Tan, damp, fine to coarse Sand, some Gravel, little Silt 12" to 26"+: Brown, damp, fine to coarse Sand, trace to little Silt

Test Hole #3 (Northeast corner of the athletic field)

0 to 7": Dark brown, damp, fine to medium Sand, some Silt, trace small roots 7" to 11": Tan, damp, fine to coarse Sand, some Gravel, little Silt 11" to 25"+: Brown, damp, fine to coarse Sand, trace to little Silt

Test Hole #4 (Southeast corner of the athletic field)

0 to 6": Dark brown, damp, fine to medium Sand, some Silt, trace small roots 6" to 11": Tan, damp, fine to coarse Sand, some Gravel, little Silt 11" to 27"+: Brown, damp, fine to coarse Sand, trace to little Silt

Test Hole #5 (South and center of the athletic field)

0 to 7": Dark brown, damp, fine to medium Sand, some Silt, trace small roots 7" to 11": Tan, damp, fine to coarse Sand, some Gravel, little Silt 11" to 29": Tan, damp, fine to medium Sand, some Silt 29" to 35"+: Brown, damp, fine to coarse Sand, trace to little Silt Groundwater at 35"



Test Hole #6 (Southwest corner of the athletic field)

0 to 8": Dark brown, damp, fine to medium Sand, some Silt, trace small roots

8" to 11": Tan/brown, damp, fine to coarse Sand, some Gravel, little Silt

11" to 20": Brown, damp, fine to coarse Sand, trace Gravel, trace Silt

20" to 27"+: Dark brown, fine to coarse Sand, some Silt, trace roots

In addition to the groundwater observation at test hole #5, standing water was observed in multiple test holes in the interim time before being backfilled. Groundwater levels within the month of November are historically lower than other times of the year, therefore, groundwater may be present closer to ground surface at other times. GSI also observed the field surface to be uneven with sporadic, patchy vegetation, which may result from an overly saturated surface subject to wear.





Athletic field surface

GUELPH PERMEAMETER TESTING

To measure the in-situ permeability of the existing soils within the athletic field, the Guelph Permeameter test was employed. The Guelph Permeameter is a constant head permeameter that utilizes a siphon principle to measure in-situ hydraulic conductivity. The purpose of this testing was to evaluate the saturated hydraulic conductivity or K_{sat} of the infiltrating soils to determine the effect of soil infiltration and permeability upon the drainage characteristics of the athletic field.





Guelph testing in progress



The Guelph permeameter test each consists of one test run at 10cm and one at 5cm to determine a statistical average for the rate of hydraulic conductivity based on differing head heights. Tests were conducted at all six of the test holes. The Guelph permeameter testing yielded field saturated hydraulic conductivity rates within a highly variable range of 0.1 to 1.5 inches per hour. Saturated hydraulic conductivity was observed to be highest at the northwest corner of the field and decreasing rapidly toward the east and south. Minimal infiltration was noted at test hole locations #5 and #6. It is likely that the shallow groundwater observed on site has an effect on the permeability rates, slowing them further.

LABORATORY TESTING

A series of seven samples were collected at the site and delivered to the GSI laboratory in Weare, New Hampshire for grain size analysis. Seven sieve analysis were completed upon samples of the topsoil and underlaying strata. The topsoil was found to contain 32 to 34 percent silt. The sands below had a highly variable Silt content of 5 to 26 percent. Although three out of four sieves conducted upon the sands indicated a silt content less than 10 percent, the difficulty in infiltrating through the overlying soils, the quantity of runoff which reaches the field area, and the proximity to groundwater are all assumed to negatively affect the draining characteristics of the athletic field.

GSI appreciates the opportunity to be of service to you on this project. We trust that this letter report will be responsive to your needs at this time. If you have any questions or comments regarding this letter report, please feel free to call.

Very truly yours,

GEOTECHNICAL SERVICES, INC.

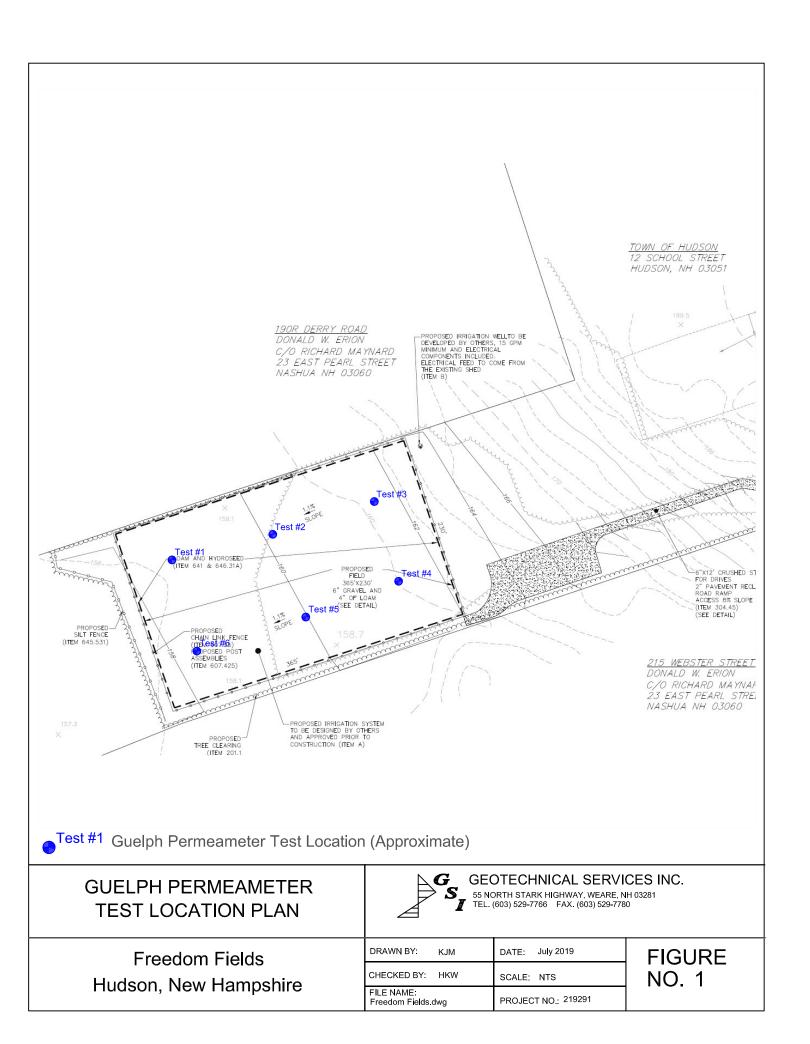
Kevin Maynard Staff Engineer

Harry Wetherbee, P.E. *Principal Engineer*

Attachments:

Guelph Permeameter Test Location Plan Guelph Permeameter Test Results Laboratory Test Results







Project:Freedom FieldsTest Date:11/27/2019Project #:219291Location:Test Locaton #1

Location: Hudson, New Hampshire **Depth:** N/A

Tested by: Kevin Maynard Reservoir: Combined

Soil Description: Sandy Loam Reservoir Constant: 35.41

Well Head Height = 5cm

Reading Number	Time (m)	Time Interval (m)	Water Level (cm)	W Level Change (cm)	Rate of Water Level Change (cm/min)
1	ı	-	36.0	=	=
2	1	1.00	36.5	0.5	0.5
3	2	1.00	37.0	0.5	0.5
4	0	1 00	07.5	٥ ـ	Λ.Γ.

			50.0		
2	1	1.00	36.5	0.5	0.5
3	2	1.00	37.0	0.5	0.5
4	3	1.00	37.5	0.5	0.5
5	4	1.00	38.0	0.5	0.5
6	5	1.00	38.5	0.5	0.5
7	6	1.00	39.0	0.5	0.5
8	7	1.00	39.5	0.5	0.5
9	8	1.00	40.0	0.5	0.5
10	9				_

Rate of Water Level Change/60 = R1

R1 = 0.008 cm/sec

Well Head Height = 10cm

Reading		Time	Water	W Level	Rate of Water Level Change
Number	Time (m)	Interval (m)	Level (cm)	Change (cm)	(cm/min)
1	-	1	25.0	-	-
2	1	1.00	26.1	1.1	1.1
3	2	1.00	27.2	1.1	1.1
4	3	1.00	28.3	1.1	1.1
5	4	1.00	29.4	1.1	1.1
6	5	1.00	30.5	1.1	1.1
7	6	1.00	31.6	1.1	1.1
8	7	1.00	32.7	1.1	1.1
9	8	1.00	33.8	1.1	1.1
10	9	1.00	34.9	1.1	1.1

Rate of Water Level Change/60 = R2

R2 = 0.018 cm/sec

Field Saturated Conductivity:

Ksat (cm/sec) = (.145 R2 - .191 R1) =

1.07E-03 cm/sec

Ksat (in/hr) = (202 R2 - 270 R1) =

1.5 in/hour



Project:Freedom FieldsTest Date:11/27/2019Project #:219291Location:Test Locaton #2

Location: Hudson, New Hampshire Depth: N/A

Tested by: Kevin Maynard Reservoir: Combined

Soil Description: Silty Loam Reservoir Constant: 35.41

Well Head Height = 5cm

Reading		Time	Water	W Level	Rate of Water Level Change	
Number	Time (m)	Interval (m)	Level (cm)	Change (cm)	(cm/min)	_
1	ı	ı	11.0	-	-	İ
2	1	1.00	11.2	0.2	0.2	İ
3	2	1.00	11.4	0.2	0.2	İ
4	3	1.00	11.6	0.2	0.2	İ
5	4	1.00	11.8	0.2	0.2	
6	5	1.00	12.0	0.2	0.2	İ
7	6	1.00	12.2	0.2	0.2	İ
8	7	1.00	12.4	0.2	0.2	R
9	8	1.00	12.6	0.2	0.2	CI
10	0					ı

Rate of Water Level Change/60 = R1

R1 = 0.003 cm/sec

Well Head Height = 10cm

Reading	J	Time	Water	W Level	Rate of Water Level Change	
Number	Time (m)	Interval (m)	Level (cm)	Change (cm)	(cm/min)	
1	ı	-	7.0	-	-	
2	1	1.00	7.5	0.5	0.5	
3	2	1.00	8.0	0.5	0.5	
4	3	1.00	8.5	0.5	0.5	
5	4	1.00	9.0	0.5	0.5	
6	5	1.00	9.5	0.5	0.5	
7	6	1.00	10.0	0.5	0.5	
8	7	1.00	10.5	0.5	0.5	Rate of Water Level
9	8	1.00	11.0	0.5	0.5	Change/ $60 = R2$
10	9	1.00	11.5	0.5	0.5	R2 = 0.008 cm/sec

Field Saturated Conductivity:

Ksat (cm/sec) = (.145 R2 - .191 R1) = 5.72E-04 cm/sec

Ksat (in/hr) = (202 R2 - 270 R1) = 0.8 in/hour



Project:Freedom FieldsTest Date:11/27/2019Project #:219291Location:Test Locaton #3

Location: Hudson, New Hampshire **Depth:** N/A

Tested by: Kevin Maynard Reservoir: Combined

Soil Description: Silty Loam Reservoir Constant: 35.41

Well Head Height = 5cm

Reading Number	Time (m)	Time	Water	W Level Change (cm)	Rate of Water Level Change (cm/min)
Nullibel	Time (m)	intervar (iii)	Level (CIII)	Change (Cili)	(СПІ/ППП)
1	-	-	30.0	-	-
2	1	1.00	30.2	0.2	0.2
3	2	1.00	30.3	0.1	0.1
4	3	1.00	30.4	0.1	0.1
5	4	1.00	30.5	0.1	0.1
6	5	1.00	30.6	0.1	0.1
7	6	1.00	30.7	0.1	0.1
8	7	1.00	30.8	0.1	0.1
9	8	1.00	30.9	0.1	0.1

Rate of Water Level Change/60 = R1

R1 = 0.002 cm/sec

Well Head Height = 10cm

	g				Rate of Water	
Reading		Time	Water	W Level	Level Change	
Number	Time (m)	Interval (m)	Level (cm)	Change (cm)	(cm/min)	
1	-	-	27.0	-	-	
2	1	1.00	27.3	0.3	0.3	
3	2	1.00	27.6	0.3	0.3	
4	3	1.00	27.9	0.3	0.3	
5	4	1.00	28.1	0.2	0.2	
6	5	1.00	28.4	0.3	0.3	
7	6	1.00	28.7	0.3	0.3	
8	7	1.00	29.0	0.3	0.3	Rate of Water Level
9	8	1.00	29.3	0.3	0.3	Change/ $60 = R2$
10	9	1.00	29.6	0.3	0.3	R2 = 0.005 cm/sec

Field Saturated Conductivity:

Ksat (cm/sec) = (.145 R2 - .191 R1) = 4.07E-04 cm/sec

Ksat (in/hr) = (202 R2 - 270 R1) = 0.6 in/hour



Project: Freedom Fields **Test Date:** 11/27/2019 **Project #:** 219291 **Location:** Test Locaton #4

Location:Hudson, New HampshireDepth:N/ATested by:Kevin MaynardReservoir:Combined

Soil Description: Silty Loam Reservoir Constant: 35.41

Well Head Height = 5cm

Rate of Water Reading Time Water W Level **Level Change** Number Time (m) Interval (m) Level (cm) Change (cm) (cm/min) 4.0 2 1.00 4.1 0.1 0.1 3 2 1.00 4.2 0.1 0.1 4 3 1.00 4.3 0.1 0.1 5 4 1.00 4.4 0.1 0.1 6 5 1.00 4.5 0.1 0.1 6 1.00 4.6 0.1 0.1 8 7 1.00 4.7 0.1 9 8 1.00 4.8 0.1 10 9

0.1 Rate of Water Level 0.1 Change/60 = R1

R1 = 0.002 cm/sec

Well Head Height = 10cm

Reading Number	Time (m)	Time Interval (m)	Water Level (cm)	W Level Change (cm)	Rate of Water Level Change (cm/min)
1	ī	ı	1.0	ı	ı
2	1	1.00	1.2	0.2	0.2
3	2	1.00	1.4	0.2	0.2
4	3	1.00	1.6	0.2	0.2
5	4	1.00	1.8	0.2	0.2
6	5	1.00	2.0	0.2	0.2
7	6	1.00	2.2	0.2	0.2
8	7	1.00	2.4	0.2	0.2
9	8	1.00			
10	9	1.00			

Rate of Water Level Change/60 = R2

R2 = 0.003 cm/sec

Field Saturated Conductivity:

Ksat (cm/sec) = (.145 R2 - .191 R1) =

1.65E-04 cm/sec

Ksat (in/hr) = (202 R2 - 270 R1) =

0.2 in/hour



Project:Freedom FieldsTest Date:11/27/2019Project #:219291Location:Test Locaton #5

Location: Hudson, New Hampshire **Depth:** N/A

Tested by: Kevin Maynard Reservoir: Combined

Soil Description: Silty Loam Reservoir Constant: 35.41

Groundwater observed at 31"

Well Head Height = 5cm

Rate of Water	Rate	of	Water
---------------	------	----	-------

Reading		Time	Water	W Level	Level Change	
Number	Time (m)	Interval (m)	Level (cm)	Change (cm)	(cm/min)	_
1	ı	-	51.5	-	-	
2	2	2.00	51.6	0.1	0.1	
3	4	2.00	51.7	0.1	0.1	
4	6	2.00	51.8	0.1	0.0	
5	8	2.00	51.9	0.1	0.1	
6	10	2.00	52.0	0.1	0.1	
7	12	2.00	52.1	0.1	0.1	
8						Rate of Water Level
9						Change/60 = R1
10						R1 = 0.001 cm/sec

Well Head Height = 10cm

Reading Number	Time (m)	Time Interval (m)	Water Level (cm)	W Level Change (cm)	Rate of Water Level Change (cm/min)
1	-	-	50.0	-	-
2	1	1.00	50.1	0.1	0.1
3	2	1.00	50.2	0.1	0.1
4	3	1.00	50.3	0.1	0.1
5	4	1.00	50.4	0.1	0.1
6	5	1.00	50.5	0.1	0.1
7	6	1.00	50.6	0.1	0.1
8	7	1.00	50.7	0.1	0.1
9	8	1.00			
10	9	1.00			

Rate of Water Level Change/60 = R2

R2 = 0.002 cm/sec

Field Saturated Conductivity:

Ksat (cm/sec) = (.145 R2 - .191 R1) = 8.25E-05 cm/sec

Ksat (in/hr) = (202 R2 - 270 R1) = 0.1 in/hour



Project:Freedom FieldsTest Date:11/27/2019Project #:219291Location:Test Locaton #6

Location: Hudson, New Hampshire **Depth:** N/A

Tested by: Kevin Maynard Reservoir: Combined

Soil Description: Silty Loam Reservoir Constant: 35.41

Groundwater observed at 34"

Well Head Height = 5cm

Rate	of	Water
	•	

Reading		Time	Water	W Level	Level Change	
Number	Time (m)	Interval (m)	Level (cm)	Change (cm)	(cm/min)	_
1	ı	-	38.0	-	-	
2	2	2.00	38.1	0.1	0.1	
3	4	2.00	38.2	0.1	0.1	
4	6	2.00	38.3	0.1	0.0	
5	8	2.00	38.4	0.1	0.1	
6	10	2.00	38.5	0.1	0.1	
7	12	2.00	38.6	0.1	0.1	
8						Rate of Water Level
9						Change/60 = R1
10						R1 = 0.001 cm/sec

Well Head Height = 10cm

					Rate of Water	
Reading		Time	Water	W Level	Level Change	
Number	Time (m)	Interval (m)	Level (cm)	Change (cm)	(cm/min)	
1	-	-	37.0	-	-	
2	1	1.00	37.1	0.1	0.1	
3	2	1.00	37.2	0.1	0.1	
4	3	1.00	37.3	0.1	0.1	
5	4	1.00	37.4	0.1	0.1	
6	5	1.00	37.5	0.1	0.1	
7	6	1.00	37.6	0.1	0.1	
8	7	1.00	37.7	0.1	0.1	Rate of
9	8	1.00	37.8	0.1	0.1	Change
10	9	1.00				R2

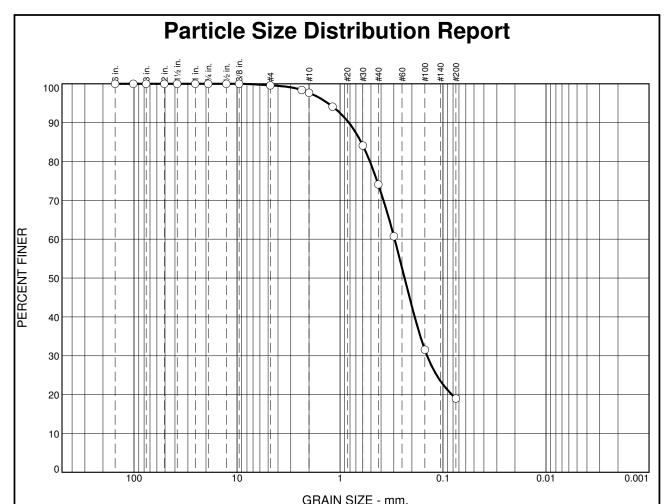
Rate of Water Level Change/60 = R2

R2 = 0.002 cm/sec

Field Saturated Conductivity:

Ksat (cm/sec) = (.145 R2 - .191 R1) = 8.25E-05 cm/sec

Ksat (in/hr) = (202 R2 - 270 R1) = 0.1 in/hour



GI B WIT GIZE THINK								
% +3"	% Gravel			% Sand			% Fines	
% +3	Coarse	Medium	Fine	Coarse	Medium	Fine	% Filles	
0.0	0.0	0.0	2.3	13.6	31.5	33.6	19.0	

SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
6"	100.0		
4"	100.0		
3"	100.0		
2"	100.0		
1.5"	100.0		
1"	100.0		
0.75"	100.0		
0.5"	100.0		
0.375"	100.0		
#4	99.6		
#8	98.4		
#10	97.7		
#16	94.1		
#30	84.1		
#40	74.1		
#50	60.7		
#100	31.6		
#200	19.0		

<u> </u>	Material Description						
Topsoil - coarse	to fine SAND, little S	Silt, trace fine Gravel					
PI =	Atterberg Limits	PI=					
PL=	LL=	PI=					
	Coefficients						
D ₈₅ = 0.6238	$D_{60} = 0.2949$	D ₅₀ = 0.2361					
D ₈₅ = 0.6238 D ₃₀ = 0.1425 C _u =	D ₁₅ = C _c =	D ₁₀ =					
o _u −	O ^C -						
11000	Classification						
USCS=	AASHTO)=					
	<u>Remarks</u>						

Sample No.: L-525-19 Source of Sample: On-Site Materials Date: 12/9/19 Location: Test Hole #2 Elev./Depth: 0-7"

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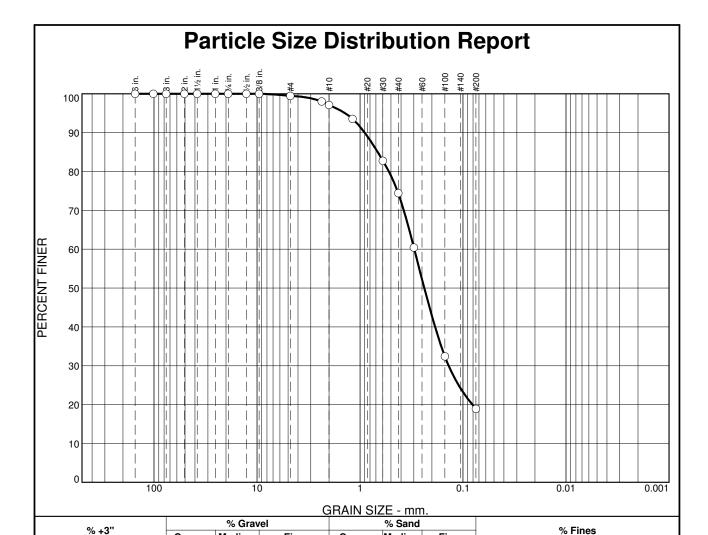
Client: Wilcox & Barton

Project: Freedom Fields

Hudson, New Hampshire

Weare, New Hampshire

Project No: 219291



Coarse Medium

Fine

0.0		0.0	0.0	2.9		14.3 30.5		33.4
					,			
SIEVE	PERCEN	т 9	SPEC.*	PASS?				Mate
SIZE	FINER	PI	ERCENT	(X=NO)		Top	osoil - co	oarse to f
6"	100.0				1	1		
4"	100.0							
3"	100.0							
2"	100.0							
1.5"	100.0							<u>At</u>
1"	100.0					PL	=	L
0.75"	100.0							
0.5"	100.0							
0.375"	100.0					l n _o	0.67	41 Ē
#4	99.5					1 58	5-0.07	+1 L
#8	98.0					J D3	0 = 0.13	// [
#10	97.1				1	I Cu	5= 0.67 0= 0.13 =	(
#16	93.5				1	~		
#30	82.8				1	1		C
#40	74.4				1	l us	CS=	_

Fine

Coarse Medium

Material Description Topsoil - coarse to fine SAND, little Silt, trace fine Gravel								
PL=	Atterberg Limits LL=	PI=						
D ₈₅ = 0.6741 D ₃₀ = 0.1377 C _u =	Coefficients D60= 0.2973 D15= Cc=	D ₅₀ = 0.2375 D ₁₀ =						
USCS=	Classification USCS= AASHTO=							
	<u>Remarks</u>							

(no specification provided)

60.4

32.4

#50 #100

#200

Sample No.: L-526-19 Source of Sample: On-Site Materials **Date:** 12/9/19 Elev./Depth: 0-6" Location: Test Hole #4

GEOTECHNICAL SERVICES, INC.

Client: Wilcox & Barton

Project: Freedom Fields

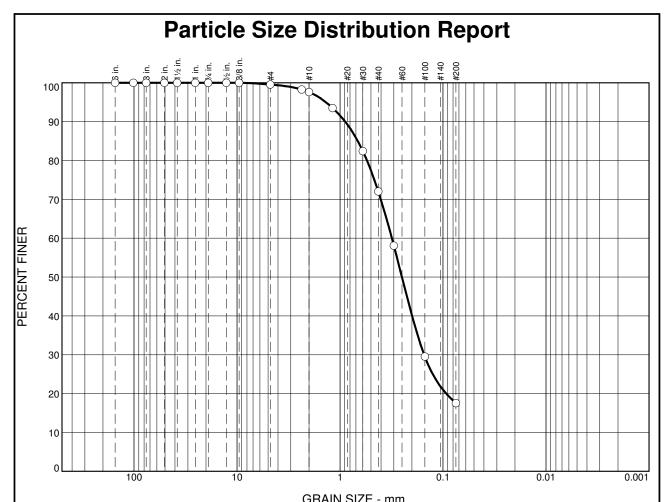
Hudson, New Hampshire

Weare, New Hampshire

Project No: 219291

Figure

18.9



OTTAIN OIZE THIN.									
% +3"	% Gravel			% Sand			% Fines		
% +3	Coarse	Medium	Fine	Coarse	Medium	Fine	% rilles		
0.0	0.0	0.0	2.4	15.2	32.5	32.4	17.5		

SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
6"	100.0		
4"	100.0		
3"	100.0		
2"	100.0		
1.5"	100.0		
1"	100.0		
0.75"	100.0		
0.5"	100.0		
0.375"	100.0		
#4	99.5		
#8	98.3		
#10	97.6		
#16	93.5		
#30	82.4		
#40	72.0		
#50	58.1		
#100	29.5		
#200	17.5		
I		1	

<u> </u>	Material Description						
Topsoil - coarse	to fine SAND, little S	Silt, trace fine Gravel					
PI =	Atterberg Limits	PI=					
PL=	LL=	PI=					
	Coefficients						
D ₈₅ = 0.6725 D ₃₀ = 0.1524 C _u =	$D_{60} = 0.3137$	D ₅₀ = 0.2505					
$D_{30} = 0.1524$	D ₁₅ = C _c =	D ₁₀ =					
o _u –	O _C -						
	Classification						
USCS=	AASHTO)=					
	Remarks						

Sample No.: L-527-19 Source of Sample: On-Site Materials Date: 12/9/19 Location: Test Hole #5 Elev./Depth: 0-7"

GEOTECHNICAL SERVICES, INC.

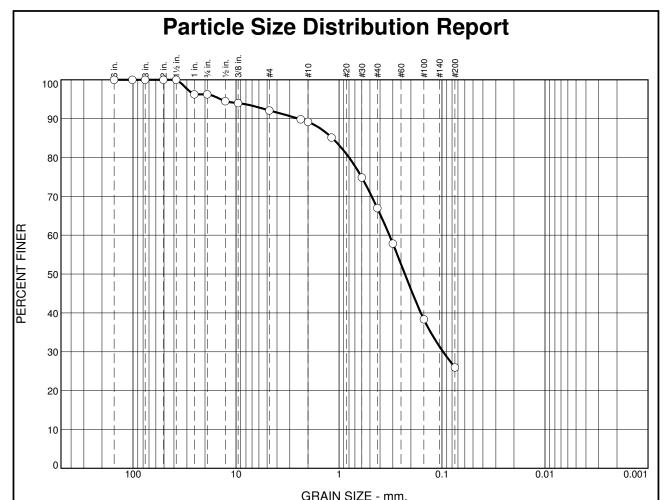
Client: Wilcox & Barton

Project: Freedom Fields

Hudson, New Hampshire

Weare, New Hampshire

Project No: 219291



01.0 til t 01.22 til til								
9/ . 2"	% Gravel			% Sand			% Fines	
% +3"	Coarse	Medium	Fine	Coarse	Medium	Fine	% rilles	
0.0	3.8	2.2	4.8	14.4	22.3	26.5	26.0	

SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
6"	100.0		
4"	100.0		
3"	100.0		
2"	100.0		
1.5"	100.0		
1"	96.2		
0.75"	96.2		
0.5"	94.5		
0.375"	94.0		
#4	92.1		
#8	89.8		
#10	89.2		
#16	85.1		
#30	74.8		
#40	67.0		
#50	57.8		
#100	38.4		
#200	26.0		

Material Description coarse to fine SAND, some Silt, little coarse to fine Gravel					
course to fine 57	coarse to fine SAND, some Sin, natic coarse to fine Graver				
PL=	Atterberg Limits	PI=			
D ₈₅ = 1.1665 D ₃₀ = 0.0975 C _u =	Coefficients D ₆₀ = 0.3246 D ₁₅ = C _C =	D ₅₀ = 0.2294 D ₁₀ =			
USCS=	Classification AASHT	O=			
	<u>Remarks</u>				

Sample No.: L-528-19 Source of Sample: On-Site Materials Date: 12/11/19 Location: Test Hole #5 Elev./Depth: 11"-29"

GEOTECHNICAL SERVICES, INC.

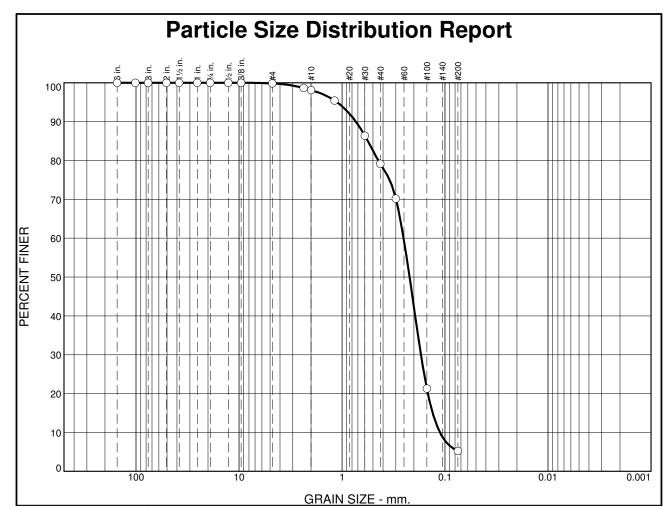
Client: Wilcox & Barton

Project: Freedom Fields

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Project No: 219291



0/ - 2"	% Gravel		% Sand			% Fines	
% +3"	Coarse	Medium	Fine	Coarse	Medium	Fine	% Filles
0.0	0.0	0.0	1.9	11.7	27.1	54.1	5.2

SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
6"	100.0		
4"	100.0		
3"	100.0		
2"	100.0		
1.5"	100.0		
1"	100.0		
0.75"	100.0		
0.5"	100.0		
0.375"	100.0		
#4	99.8		
#8	98.7		
#10	98.1		
#16	95.4		
#30	86.4		
#40	79.1		
#50	70.2		
#100	21.3		
#200	5.2		

Material Description coarse to fine SAND, trace Silt, trace fine Gravel					
PL=	Atterberg Limits	PI=			
D ₈₅ = 0.5617 D ₃₀ = 0.1712 C _u = 2.25	$\begin{array}{c} \underline{\text{Coefficients}} \\ D_{60} = 0.2523 \\ D_{15} = 0.1316 \\ C_{\text{C}} = 1.04 \end{array}$	D ₅₀ = 0.2209 D ₁₀ = 0.1121			
USCS=	Classification AASHT	O=			
	<u>Remarks</u>				

Sample No.: L-529-19 Source of Sample: On-Site Materials Date: 12/9/19 Location: Test Hole #5 Elev./Depth: 29"-35"

GEOTECHNICAL SERVICES, INC.

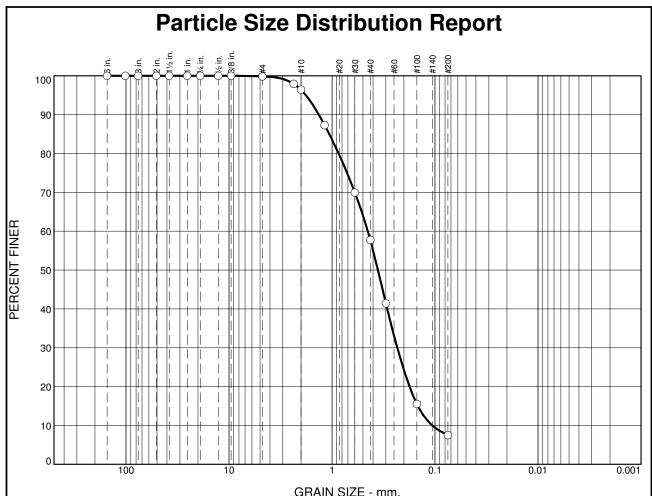
Client: Wilcox & Barton

Project: Freedom Fields

Hudson, New Hampshire

Weare, New Hampshire

Project No: 219291



9/ . 2"		% Grav	el % Sand			% Fines	
% +3"	Coarse	Medium	Fine	Coarse	Medium	Fine	% Fines
0.0	0.0	0.0	3.6	26.5	36.8	25.6	7.5

SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
6"	100.0		
4"	100.0		
3"	100.0		
2"	100.0		
1.5"	100.0		
1"	100.0		
0.75"	100.0		
0.5"	100.0		
0.375"	100.0		
#4	99.8		
#8	97.9		
#10	96.4		
#16	87.3		
#30	69.9		
#40	57.7		
#50	41.4		
#100	15.5		
#200	7.5		

Material Description coarse to fine SAND, trace Silt, trace fine Gravel					
PL=	Atterberg Limits	PI=			
D ₈₅ = 1.0645 D ₃₀ = 0.2323 C _U = 4.23	$\begin{array}{c} \textbf{Coefficients} \\ \textbf{D}_{60} = 0.4492 \\ \textbf{D}_{15} = 0.1465 \\ \textbf{C}_{\text{C}} = 1.13 \end{array}$	D ₅₀ = 0.3583 D ₁₀ = 0.1062			
USCS=	Classification AASHT	O=			
	Remarks				

Sample No.: L-530-19 Source of Sample: On-Site Materials Date: 12/9/19 Location: Test Hole #6 Elev./Depth: 11"-27"

GEOTECHNICAL SERVICES, INC.

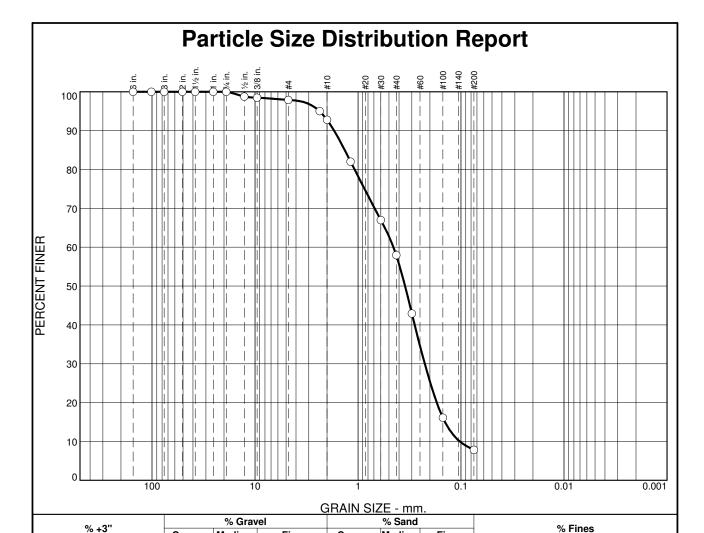
Client: Wilcox & Barton

Project: Freedom Fields

Hudson, New Hampshire

Weare, New Hampshire

Project No: 219291



Coarse

25.9

Medium

32.3

Fine

26.8

SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
6"	100.0		
4"	100.0		
3"	100.0		
2"	100.0		
1.5"	100.0		
1"	100.0		
0.75"	100.0		
0.5"	98.8		
0.375"	98.5		
#4	97.9		
#8	95.0		
#10	92.8		
#16	82.0		
#30	66.9		
#40	57.9		
#50	42.9		
#100	16.1		
#200	7.8		

Coarse

0.0

0.0

Medium

1.5

Fine

5.7

Material Description coarse to fine SAND, trace Silt, trace med to fine Gravel					
PL=	Atterberg Limits	PI=			
D ₈₅ = 1.3472 D ₃₀ = 0.2248 C _U = 4.40	Coefficients D ₆₀ = 0.4528 D ₁₅ = 0.1430 C _C = 1.08	D ₅₀ = 0.3495 D ₁₀ = 0.1029			
USCS=	Classification AASHT	O=			
	<u>Remarks</u>				

(no specification provided)

Sample No.: L-531-19 Source of Sample: On-Site Materials Date: 12/11/19 Location: Test Hole #2 Elev./Depth: 8"-24"

GEOTECHNICAL SERVICES, INC.

Client: Wilcox & Barton

Project: Freedom Fields

Hudson, New Hampshire

Weare, New Hampshire

Project No: 219291

Figure

7.8



