



CITY OF NEW BEDFORD, MA
DEPARTMENT OF PUBLIC INFRASTRUCTURE

1105 Shawmut Ave, New Bedford, MA 02746

Parcel ID: **046 0152**

Water Service Permit

Issue Date: **April 12, 2023**

Expires: **April 12, 2024**

Permit No.: **W-34208**

I HEREBY ACKNOWLEDGE the receipt of a copy of the Regulations prescribed in the Ordinance of the City, for the use of Water, and I request that the water may be furnished at **561 PURCHASE ST New Bedford, MA 02740**.

Type of Use: **Commercial**

Type of Pipe: **4" Die Supply**

Owner Information

Name : **VERDEAN VETERANS MEMORIAL FOUNDATION INC**

Address: **561 PURCHASE ST 561 Purchase St NEW BEDFORD , MA 02740**

Service Connecting Location: **8 in Water Main at Street**

Desiree Martin

Property Owner of Representative

Amanda Jupin

Issued By:

Hydraulic Overview

Job Number: 12-1-2022
Report Description: Ordinary Group I

Job		
Job Number 12-1-2022	Design Engineer CH PRATT COMPANY	
Job Name: CAPE VERDEAN AMERICAN VETERANS HALL	Phone 774-545-6636	FAX
Address 1 561 PURCHASE STREET	State Certification/License Number	
Address 2 NEW BEDFORD	AHJ NEW BEDFORD FIRE DEPARTMENT	
Address 3 MASSACHUSETTS	Job Site/Building ATTIC LEVEL	

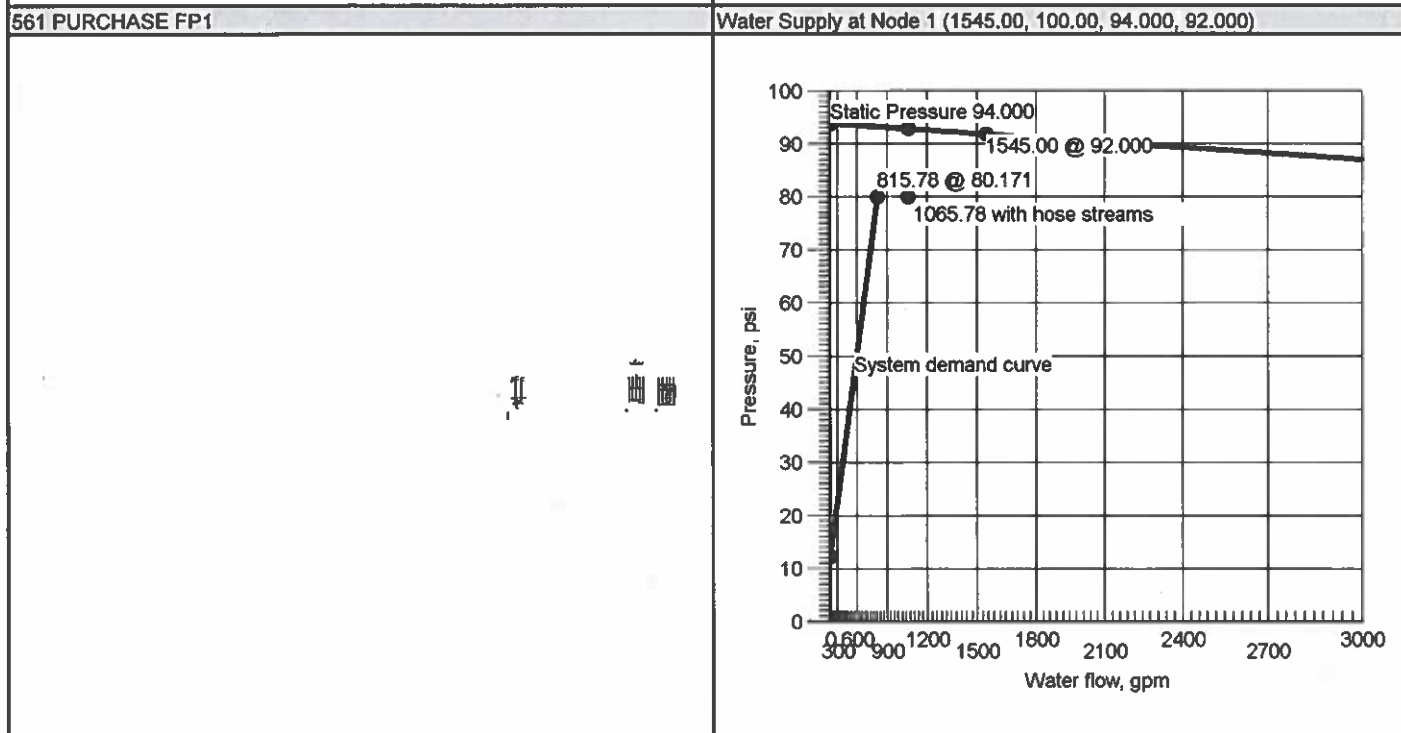
System		
Density 0.150gpm/ft ²	Area of Application 1500.00ft ² (Actual 2658.58ft ²)	
Most Demanding Sprinkler Data 5.6 K-Factor 19.50 at 12.125	Hose Streams 250.00	
Coverage Per Sprinkler 130.00ft ²	Number Of Sprinklers Calculated 35	Number Of Sprinklers Calculated 0
System Pressure Demand 80.171	System Flow Demand 815.78	
Total Demand 1065.78 @ 80.171	Pressure Result +12.823 (13.8%)	

Supplies						Check Point Gauges			
Node	Name	Flow(gpm)	Hose Flow(gpm)	Static(psi)	Residual(psi)	Identifier	Pressure(psi)	K-Factor(K)	Flow(gpm)
1	Water Supply	1545.00	250.00	94.000	92.000	BOR	74.708	94.38	815.78



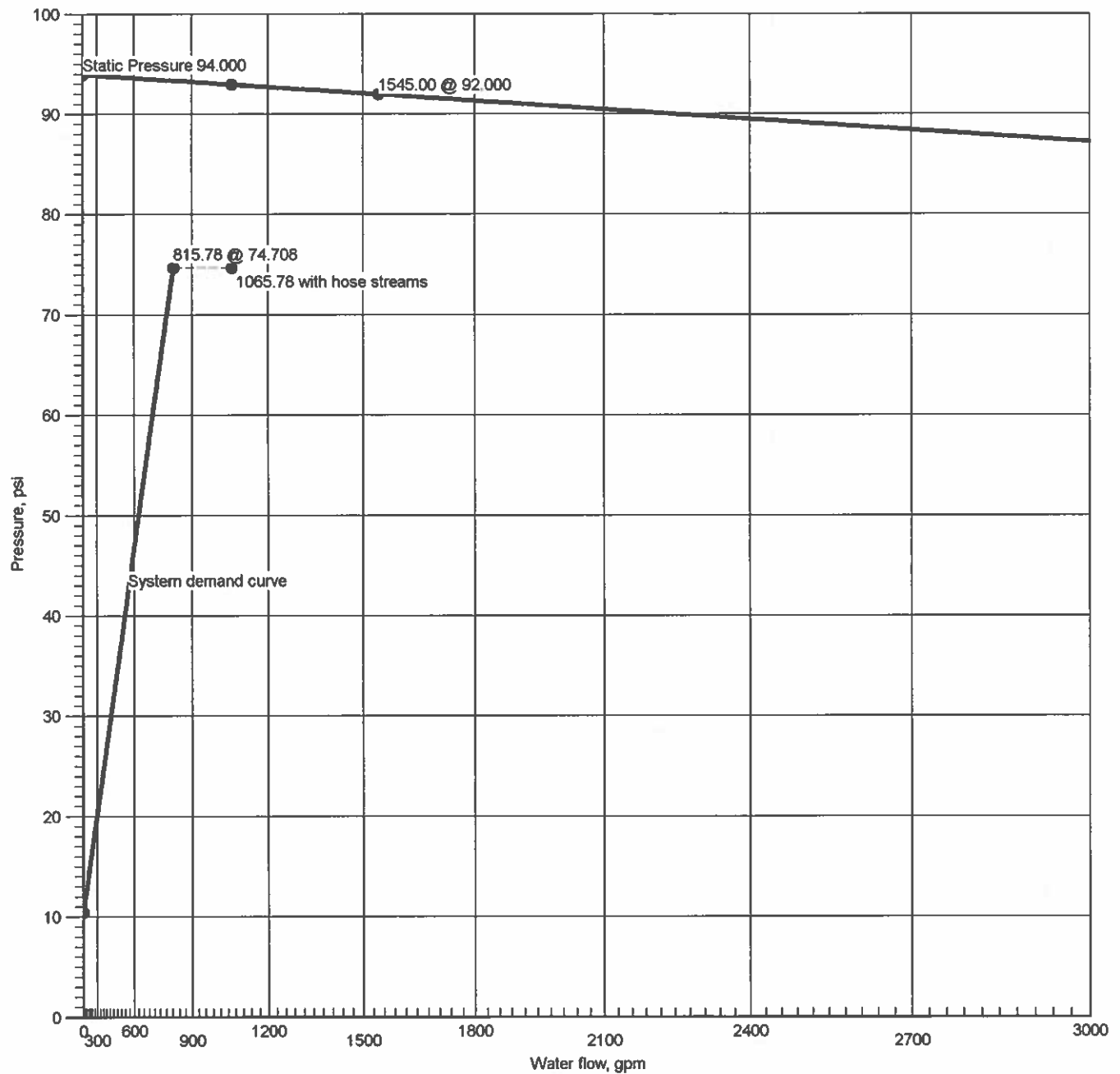
NR Phillips

Digitally signed by NR Phillips
Date: 2022.12.05 10:30:33 -05'00'





BOR



Hydraulic Graph

BOR

Static Pressure

N/A

Residual Pressure

N/A

Available Pressure at Time of Test

N/A

System Demand

74.708 @ 815.78

System Demand (Including Hose Allowance at Source)

74.708 @ N/A



Node Analysis

Job Number: 12-1-2022
Report Description: Ordinary Group I

Node	Elevation(foot)	Fittings	Pressure(psi)	Discharge(gpm)
1	-2'-2	S	80.171	815.78
101	26'-6½	Spr(-12.265)	12.265	19.61
102	21'-6½	Spr(-14.182)	14.182	21.09
103	26'-6½	Spr(-12.125)	12.125	19.50
104	26'-6½	Spr(-12.771)	12.771	20.01
105	21'-6½	Spr(-14.022)	14.022	20.97
106	21'-6½	Spr(-14.761)	14.761	21.51
107	21'-6½	Spr(-13.857)	13.857	20.85
108	21'-6½	Spr(-13.700)	13.700	20.73
109	21'-6½	Spr(-14.423)	14.423	21.27
110	26'-6½	Spr(-13.858)	13.858	20.85
111	21'-6½	Spr(-16.004)	16.004	22.40
112	18'-6½	Spr(-15.270)	15.270	21.88
113	18'-6½	Spr(-15.099)	15.099	21.76
114	18'-6½	Spr(-15.890)	15.890	22.32
115	21'-6½	Spr(-15.640)	15.640	22.15
116	18'-6½	Spr(-17.221)	17.221	23.24
117	26'-6½	Spr(-15.759)	15.759	22.23
118	21'-6½	Spr(-18.177)	18.177	23.88
119	26'-6½	Spr(-20.205)	20.205	25.17
120	21'-6½	Spr(-17.767)	17.767	23.60
121	21'-6½	Spr(-23.261)	23.261	27.01
122	18'-6½	Spr(-19.548)	19.548	24.76
123	21'-6½	Spr(-22.743)	22.743	26.71
124	18'-6½	Spr(-24.991)	24.991	28.00
125	18'-6½	Spr(-19.134)	19.134	24.50
126	18'-6½	Spr(-24.470)	24.470	27.70
127	26'-6½	Spr(-19.983)	19.983	25.03
128	21'-6½	Spr(-23.008)	23.008	26.86
129	21'-6½	Spr(-22.496)	22.496	26.56
130	18'-6½	Spr(-24.721)	24.721	27.84
131	18'-6½	Spr(-24.205)	24.205	27.55
569	18'-6½	Spr(-16.854)	16.854	22.99
586	18'-6½	Spr(-15.549)	15.549	22.08
593	18'-6½	Spr(-14.942)	14.942	21.65
605	18'-6½	Spr(-14.774)	14.774	21.52
3	26'-6½	T(7'-0½)	21.014	
4	17'-0	PO(8'-9½)	29.419	
5	21'-6½	T(7'-0½)	24.183	
6	17'-0	T(15'-0½)	30.598	
7	17'-0	PO(8'-9½)	29.693	
8	21'-6½	T(7'-0½)	23.647	
9	17'-0	PO(8'-9½)	29.082	
10	18'-6½	T(7'-0½)	25.977	
11	17'-0	PO(8'-9½)	29.579	
12	18'-6½	T(7'-0½)	25.436	
13	17'-0	PO(8'-9½)	28.981	
15	2'-4	LtE(10'-0½), BOR	74.708	
419	8'-6	E(9'-4½)	58.693	
425	2'-4	BFP(-5.000)	73.643	
455	4'-5½	DPV(-2.291)	63.750	



Hydraulic Analysis

Job Number: 12-1-2022
Report Description: Ordinary Group I

Pipe Type	Diameter	Flow	Velocity	HWC	Friction Loss	Length	Pressure
Downstream	Elevation	Discharge	K-Factor	Pt	Fittings	Eq. Length	Summary
Upstream				Pn		Total Length	
Route 1							
BL	1.6820	19.50	2.82	100	0.017455	8'-0"	Pf 0.140
103	26'-6½"	19.50	5.6	12.125	Sprinkler	8'-0"	Pe
101	26'-6½"			12.265		8'-0"	Pv
BL	1.6820	39.11	5.65	100	0.063261	8'-0"	Pf 0.506
101	26'-6½"	19.61	5.6	12.265	Sprinkler	8'-0"	Pe
104	26'-6½"			12.771		8'-0"	Pv
BL	1.6820	59.12	8.54	100	0.135874	8'-0"	Pf 1.087
104	26'-6½"	20.01	5.6	12.771	Sprinkler	8'-0"	Pe
110	26'-6½"			13.858		8'-0"	Pv
BL	1.6820	79.97	11.55	100	0.237571	8'-0"	Pf 1.901
110	26'-6½"	20.85	5.6	13.858	Sprinkler	8'-0"	Pe
117	26'-6½"			15.759		8'-0"	Pv
BL	1.6820	102.20	14.76	100	0.373992	7'-0"	Pf 5.256
117	26'-6½"	22.23	5.6	15.759	Sprinkler,	7'-0½"	Pe
3	26'-6½"			21.014	T(7'-0½")	14'-0½"	Pv
BL	2.1570	152.41	13.38	100	0.233263	9'-6½"	Pf 4.271
3	26'-6½"	50.21		21.014	Flow (q) from Route 6	8'-9½"	Pe 4.133
4	17'-0"			29.419	PO(8'-9½")	18'-3½"	Pv
CM	4.2600	482.26	10.86	100	0.071447	1'-6"	Pf 1.179
4	17'-0"	329.85		29.419	Flow (q) from Route 2	15'-0½"	Pe
6	17'-0"			30.598	T(15'-0½")	16'-6"	Pv
CM	4.2600	815.78	18.36	100	0.188941	82'-7½"	Pf 24.411
6	17'-0"	333.52		30.598	Flow (q) from Route 3	46'-7"	Pe 3.685
419	8'-6"			58.693	Z, 2fE(6'-4½"), T(15'-0½"), 2E(9'-4½")	129'-2½"	Pv
FR	4.0260	815.78	20.56	100	0.248781	4'-0½"	Pf 3.299
419	8'-6"			58.693		4'-0½"	Pe 1.758
455	4'-5½"			63.750	DPV(-2.291)	4'-0½"	Pv
DY	4.0260	815.78	20.56	120	0.177554	2'-4"	Pf 8.969
455	4'-5½"			63.750		20'-0"	Pe 0.924
425	2'-4"			73.643	T(20'-0"), BFP(-5.000)	22'-4"	Pv
DY	4.2200	815.78	18.71	140	0.106156	0'-0"	Pf 1.065
425	2'-4"			73.643		10'-0½"	Pe
15	2'-4"			74.708	LIE(10'-0½"), BOR	10'-0½"	Pv
UG	4.2200	815.78	18.71	140	0.106156	16'-4½"	Pf 3.516
15	2'-4"			74.708		16'-8½"	Pe 1.947
1	-2'-2"			80.171	E(16'-8½"), S	33'-1½"	Pv
		250.00			Hose Allowance At Source		
1		1065.78					
Route 2							
BL	1.6820	20.73	2.99	100	0.019543	8'-0"	Pf 0.156
108	21'-6½"	20.73	5.6	13.700	Sprinkler	8'-0"	Pe
107	21'-6½"			13.857		8'-0"	Pv
BL	1.6820	41.57	6.00	100	0.070823	8'-0"	Pf 0.567
107	21'-6½"	20.85	5.6	13.857	Sprinkler	8'-0"	Pe
109	21'-6½"			14.423		8'-0"	Pv
BL	1.6820	62.84	9.07	100	0.152095	8'-0"	Pf 1.217
109	21'-6½"	21.27	5.6	14.423	Sprinkler	8'-0"	Pe
115	21'-6½"			15.640		8'-0"	Pv
BL	1.6820	84.99	12.27	100	0.265871	8'-0"	Pf 2.127
115	21'-6½"	22.15	5.6	15.640	Sprinkler	8'-0"	Pe
120	21'-6½"			17.767		8'-0"	Pv
BL	1.6820	108.59	15.68	100	0.418398	7'-0"	Pf 5.880
120	21'-6½"	23.60	5.6	17.767	Sprinkler,	7'-0½"	Pe
8	21'-6½"			23.647	T(7'-0½")	14'-0½"	Pv
BL	2.1570	161.86	14.21	100	0.260730	4'-6½"	Pf 3.470
8	21'-6½"	53.27		23.647	Flow (q) from Route 7	8'-9½"	Pe 1.966
9	17'-0"			29.082	PO(8'-9½")	13'-3½"	Pv
CM	4.2600	329.85	7.42	100	0.035384	9'-6"	Pf 0.336
9	17'-0"	167.99		29.082	Flow (q) from Route 4	9'-6"	Pe
4	17'-0"			29.419		9'-6"	Pv
Route 3							
BL	1.6820	20.97	3.03	100	0.019967	8'-0"	Pf 0.160
105	21'-6½"	20.97	5.6	14.022	Sprinkler	8'-0"	Pe
102	21'-6½"			14.182		8'-0"	Pv



Hydraulic Analysis

Job Number: 12-1-2022
Report Description: Ordinary Group I

Pipe Type	Diameter	Flow	Velocity	HWC	Friction Loss	Length	Pressure
Downstream	Elevation	Discharge	K-Factor	Pt	Pn	Eq. Length	Summary
Upstream						Total Length	
BL	1.6820	50.21	7.25	100	0.100404	1'-0"	Pf 0.810
119	26'-6½"	25.17	5.6	20.205	Sprinkler,	7'-0½"	Pe
3	26'-6½"			21.014	T(7'-0½")	8'-1"	Pv
Route 7							
BL	1.6820	26.56	3.84	100	0.030918	8'-0"	Pf 0.247
129	21'-6½"	26.56	5.6	22.496	Sprinkler		Pe
123	21'-6½"			22.743		8'-0"	Pv
BL	1.6820	53.27	7.69	100	0.112025	1'-0"	Pf 0.903
123	21'-6½"	26.71	5.6	22.743	Sprinkler,	7'-0½"	Pe
8	21'-6½"			23.647	T(7'-0½")	8'-1"	Pv
Route 8							
BL	1.6820	26.86	3.88	100	0.031569	8'-0"	Pf 0.253
128	21'-6½"	26.86	5.6	23.008	Sprinkler		Pe
121	21'-6½"			23.261		8'-0"	Pv
BL	1.6820	53.87	7.78	100	0.114382	1'-0"	Pf 0.922
121	21'-6½"	27.01	5.6	23.261	Sprinkler,	7'-0½"	Pe
5	21'-6½"			24.183	T(7'-0½")	8'-1"	Pv
Route 9							
BL	1.6820	27.55	3.98	100	0.033085	8'-0"	Pf 0.265
131	18'-6½"	27.55	5.6	24.205	Sprinkler		Pe
126	18'-6½"			24.470		8'-0"	Pv
BL	1.6820	55.25	7.98	100	0.119873	1'-0"	Pf 0.967
126	18'-6½"	27.70	5.6	24.470	Sprinkler,	7'-0½"	Pe
12	18'-6½"			25.436	T(7'-0½")	8'-1"	Pv
Route 10							
BL	1.6820	27.84	4.02	100	0.033737	8'-0"	Pf 0.270
130	18'-6½"	27.84	5.6	24.721	Sprinkler		Pe
124	18'-6½"			24.991		8'-0"	Pv
BL	1.6820	55.84	8.06	100	0.122235	1'-0"	Pf 0.986
124	18'-6½"	28.00	5.6	24.991	Sprinkler,	7'-0½"	Pe
10	18'-6½"			25.977	T(7'-0½")	8'-1"	Pv

Equivalent Pipe Lengths of Valves and Fittings (C=120 only)

$$\left(\frac{\text{Actual Inside Diameter}}{\text{Schedule 40 Steel Pipe Inside Diameter}} \right)^{4.87} = \text{Factor}$$

C Value Multiplier

Value Of C	100	130	140	150
Multiplying Factor	0.713	1.16	1.33	1.51

**Job**

CAPE VERDEAN AMERICAN VETERANS HALL
561 PURCHASE STREET
NEW BEDFORD
MASSACHUSETTS

Design Basis

Occupancy:	Ordinary Group I
Total Sprinklers:	140
Number Of Sprinklers Calculated:	35
Number Of Nozzles Calculated:	0
K-Factor:	5.6
Orifice Size:	0.5
Design Density:	0.150gpm/ft ²
Average Density:	0.307gpm/ft ²
Area of Application:	1500.00ft ² (Actual 2658.58ft ²)

Demand At Base Of Riser (BOR)

Total Demand Flow(gpm):	815.78
Pressure(psi):	74.708

Water Supply Information At Time Of Design

Static Pressure(psi):	94.000
Residual Pressure(psi):	92.000
Supply Flow(gpm):	1545.00
 Total Demand Flow(gpm):	 1065.78
Total Demand Pressure(psi):	80.171



Flow Diagram (Top View)

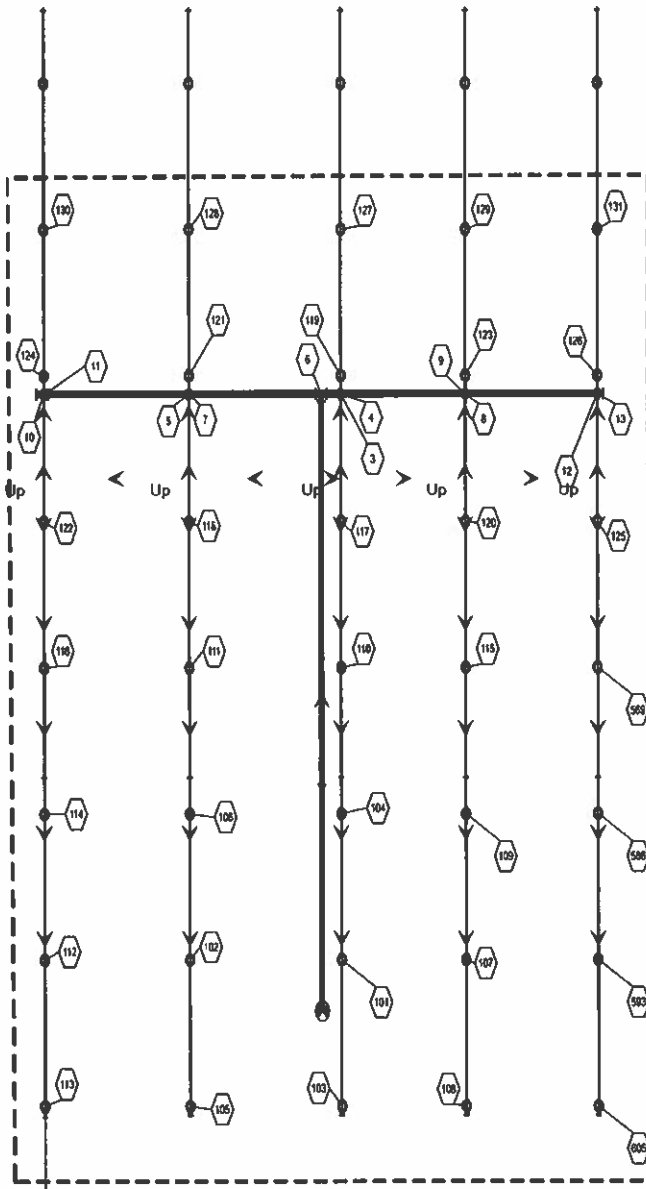
Job Number: 12-1-2022
Report Description: Ordinary Group I





Flow Diagram (Current View)

Job Number: 12-1-2022
Report Description: Ordinary Group I



SECURITY FEATURES INCLUDE FAKE WATERMARK PAPER HEAT SENSITIVE ICON AND FOIL HOLOGRAM



CeMat Contracting Co., Inc.
56 Condit St
New Bedford, MA 02745-6016
(508) 999.2660

Santander Bank, N.A.
6-7516/110

4.12.23

006179

PAY TO THE
ORDER OF

City of New Bedford

Four Hundred Fifty Five

— $\frac{50}{100}$ Have a bless day:0)

\$ 465. $\frac{50}{100}$

DOLLARS

MEMO WATER SUPPLY PERMIT



AUTHORIZED SIGNATURE

Ken Smith

⑈006179⑈ ⑆011075150⑆ 13200172917⑈



W-34208

City of New Bedford Water Permit

pending Payment 4.11.2023

Status: Active

Date Created: Apr 11, 2023

Applicant

Desiree Martin
deray36@hotmail.com
561 Purchase St
3rd Floor
New Bedford, Massachusetts 02740
5089621947

Primary Location

561 PURCHASE ST
New Bedford, MA 02740

Owner:

VERDEAN VETERANS MEMORIAL FOUNDATION INC
561 PURCHASE ST 561 Purchase St NEW BEDFORD ,
MA 02740

Property Owner Information

Property Owner Name

Verdean Veterans Memorial Foundation Inc

Property Owner Street Address

561 Purchase St

Property Owner City

New Bedford

Property Owner State

Ma

Property Owner Zip Code

02740

Property Owner Telephone Number

7743054118

Permit Info

Permit For

New Fire Supply Service

Property Location

561 Purchase St

Connecting Location

8 in Water Main at Street

Work Description

Tap 4 in service to building from 8 in water main

Type of Use

Commercial

Pipe Size

4 in

Part of jointly-shared private line

No

Date Connected

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Comments

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Applicant Information

Is applicant the property owner?

Yes

Signature of Property Owner or Representative

Desiree Martin
04/11/2023

Attachments

-  Verdean Hall Permission.pdf
Uploaded by Desiree Martin on Apr 11, 2023 at 10:54 am
-  Verdean Vets Permit Docs.pdf
Uploaded by Desiree Martin on Apr 11, 2023 at 10:55 am
-  561 Purchase St - Plans.pdf
Uploaded by Amanda Jupin on Apr 11, 2023 at 3:37 pm

History

Date	Activity
Apr 11, 2023 at 10:43 am	Desiree Martin started a draft of Record W-34208
Apr 11, 2023 at 10:46 am	Desiree Martin altered Record W-34208, changed ownerEmail from "" to "deray36@hotmail.com"
Apr 11, 2023 at 10:46 am	Desiree Martin altered Record W-34208, changed ownerStreetName from "" to "561 Purchase St"
Apr 11, 2023 at 10:54 am	Desiree Martin added attachment Verdean Hall Permission.pdf to Record W-34208
Apr 11, 2023 at 10:55 am	Desiree Martin added attachment Verdean Vets Permit Docs.pdf to Record W-34208
Apr 11, 2023 at 10:56 am	Desiree Martin submitted Record W-34208
Apr 11, 2023 at 10:56 am	approval step Application Reviewwas assigned to Amanda Jupin on Record W-34208
Apr 11, 2023 at 3:37 pm	Amanda Jupin added attachment 561 Purchase St - Plans.pdf to Record W-34208
Apr 11, 2023 at 3:37 pm	Amanda Jupin approved approval step Application Review on Record W-34208
Apr 11, 2023 at 3:37 pm	approval step DPI Engineer Reviewwas assigned to Stephanie Crampton on Record W-34208
Apr 11, 2023 at 3:37 pm	approval step Conservation Reviewwas assigned to COURTNEY COHEN on Record W-34208
Apr 11, 2023 at 3:37 pm	approval step Health Reviewwas assigned to Joseph Carvalho on Record W-34208
Apr 11, 2023 at 3:37 pm	Amanda Jupin assigned approval step DPI Engineer Review to Amanda Jupin on Record W-34208
Apr 11, 2023 at 3:38 pm	Amanda Jupin approved approval step DPI Engineer Review on Record W-34208
Apr 11, 2023 at 3:38 pm	Amanda Jupin assigned approval step Health Review to Amanda Jupin on Record W-34208
Apr 11, 2023 at 3:38 pm	Amanda Jupin assigned approval step Health Review to Joseph Carvalho on Record W-34208
Apr 11, 2023 at 3:38 pm	Amanda Jupin assigned approval step Conservation Review to Chancery Perks on Record W-34208
Apr 11, 2023 at 3:39 pm	Amanda Jupin waived approval step Health Review on Record W-34208
Apr 11, 2023 at 3:39 pm	Amanda Jupin waived approval step Conservation Review on Record W-34208

Timeline

Label	Status	Activated	Completed	Assignee	Due Date
 Application Review	Complete	Apr 11, 2023 at 10:56 am	Apr 11, 2023 at 3:37 pm	Amanda Jupin	-
 DPI Engineer Review	Complete	Apr 11, 2023 at 3:37 pm	Apr 11, 2023 at 3:38 pm	Amanda Jupin	-
Health Review	Skipped	Apr 11, 2023 at 3:37 pm	Apr 11, 2023 at 3:39 pm	Joseph Carvalho	-
Conservation Review	Skipped	Apr 11, 2023 at 3:37 pm	Apr 11, 2023 at 3:39 pm	Chancery Perks	-
 Permit Fee	Active	Apr 11, 2023 at 3:39 pm	-	-	-
 Issue Permit	Inactive	-	-	-	-

56! purchase

1. Owner to have a hydrant flow test performed by a fire sprinkler company and witness by D.P.I. the test results submitted to D.P.I.

2. The owner to submit site plan for review showing fire service connection from water main.

3. Fire supply service to be in accordance With D.P.I. construction regulations

Need 6" applying for 4" must submit calculations to verify supported size

(the service installed perpendicular from the main to property line to building; bends are not allowed).

4. The owner to apply for a fire supply service permit for the Fire sprinkler system.

5. Install backflow preventers per City/State and D.E.P. plumbing codes and regulations.

6. At the completion of the Fire Sprinkler System installation the owner to make an appointment with D.P.I. to have the fire system inspected and tested.

Message left for Karen 344 3/27

Domestic supply

4272