



TOWN OF HAMPDEN
DEPARTMENT OF PUBLIC WORKS

106 WESTERN AVE.
HAMPDEN, ME 04444

TEL 862-3337

FAX 862-3910

June 10, 2016

To: Angus Jennings
From: Sean Currier
Subject: Maine Ground Developers (Ammo Park) and the Sargent Corporation (Business Park) Sewer Acceptance Recommendation

Angus,

As you are aware, Maine Ground Developers and Sargent Corporation is requesting the recently installed SDR35 PVC sanitary sewer from Ammo Industrial Park Road, through Carey Circle (Business Park), connecting to the existing Town owned sanitary sewer system near Route 202, to be formally accepted by the Town of Hampden as public infrastructure.

Maine Ground Developers has submitted the proper documentation pursuant to "Section 5.5 Transfer of Ownership to the Town" of the Town of Hampden, Sewer Ordinance. The sewer main has been installed by Sargent Corporation and all pressure/vacuum testing of applicable sewer has been completed and inspected by Greg Nash. Deflection testing was also completed. Although the deflection testing was not completed per the Sewer Ordinance, it was completed per ASTM standards, therefore, I am comfortable with accepting the tests. I will be pursuing changes in our ordinance which fall more in line with the ASTM standards shortly. The only outstanding item from Maine Ground Developers, is submission to the Town for the requested 100' wide maintenance easement for future sewer maintenance activities. Based on inspection and testing results, I recommend the acceptance of the Ammo Park portion of the sewer **with condition** of receiving the easement (not currently completed) stamped by a Maine licensed Professional Engineer and being recorded with the Penobscot County Registry of Deeds.

Sargent Corporation has submitted the proper documentation pursuant to "Section 5.5 Transfer of Ownership to the Town" of the Town of Hampden, Sewer Ordinance. The sewer main has been installed by Sargent Corporation and all pressure/vacuum testing of applicable sewer has been completed and inspected by Woodard and Curran Engineers. The sewer manholes were not tested per the Sewer Ordinance, but were tested after being backfilled. The tests resulted in no loss of pressure, therefore I would

recommend acceptance. Deflection testing was completed per ASTM standards as stated above. As previously mentioned, I will be proposing testing language changes to the current Sewer Ordinance to more closely represent current construction practice and standards. The entire Business Park proposed sewer system was also flushed (cleaned) by Allen's Environmental. Based on the inspection and testing results, I recommend the acceptance of the Business Park portion of the sewer.

Thank you for your consideration in this matter.

Sincerely,

Sean Currier

Attachments:

- Maine Ground Developers packet submission
- Letter stating completion from Greg Nash (Ammo Park)
- Sargent Corporation packet submission
- Email stating completion from Woodard and Curran (Business Park)



Maine Ground Developers, Inc.

8 Ammo Industrial Park
Bangor, ME 04401-6378
(207) 947-1028

June 9, 2016

Mr. Sean Currier
Town of Hampden – Public Works
106 Western Ave.
Hampden, ME 04444

Re: Request for Transfer of Ownership – Ammo Park Extension Sanitary Sewer

Mr. Currier,

As you are aware, we have completed the installation of the sanitary sewer for the Ammo Park Extension, in Maine Ground Developers, Inc's Ammo Industrial Park. At this time, we are requesting written approval from the Town stating that the sewer improvements have been completed as specified in the Town of Hampden Sewer Ordinance excepting the Right of Way provision.

We further request you go before the Town Council to request a conditional acceptance of the referenced sewer line subject to the satisfactory completion of a swap of your current right of way through Ammo Park with the anticipated right of way which includes the water and sewer extension.

Enclosed you will find our letter of warranty, lien waiver and the vacuum, pressure and mandrel test results.

Please contact me at 207-945-6451 or tthibodeau@freightlinerofmaine.com should you need additional information.

Sincerely,

Tracy Thibodeau
Agent



Maine Ground Developers, Inc.

8 Ammo Industrial Park
Bangor, ME 04401-6378
(207) 947-1028

June 9, 2016

LETTER OF WARRANTY

PROJECT: Maine Ground Developers, Inc. Ammo Park Extension

Maine Ground Developers, Inc hereby warrants the sanitary sewer installed as part of the Ammo Park Extension from defects in material or workmanship for a period of 18 months from the time of acceptance by the Town, excluding any damages or problems caused by a lack of maintenance, negligence, alterations, misuse or acts of God. The Town shall notify Maine Ground Developers, Inc in writing, within thirty (30) days of knowledge of defect, at which time Maine Ground Developers, Inc, or a representative of their choosing, will correct, repair or replace the defective item, at their discretion, meeting the material and workmanship standards established in the Town of Hampden Sewer Ordinance. Maine Ground Developers, Inc, or its representative, shall be given access to the site and reasonable work area to perform warranty work during normal business hours. Maine Ground Developers, Inc shall be given first opportunity to correct, repair, or replace any defective item at no cost to the Town within a reasonable amount of time. If Maine Ground Developers, Inc is not afforded this opportunity, all costs incurred to remedy the defect shall be at the Town's expense.

Maine Ground Developers, Inc

Tracy Thibodeau
Agent
422 Perry Road
Bangor, ME 04401
207-945-6451



Maine Ground Developers, Inc.

8 Ammo Industrial Park
Bangor, ME 04401-6378
(207) 947-1028

June 8, 2016

LIEN AND CLAIM WAIVER

PROJECT: Maine Ground Developer, Inc – Ammo Park Extension

The undersigned, on oath, state that all persons and firms who supplied work, labor, materials and services to the undersigned in connection with said Project have been fully paid by the undersigned for such work items and does fully release and hold harmless the Town from any and all claims, liens or rights to claim or lien, arising out of this Project.

Maine Ground Developers, Inc.

by *Way & Clabod*
Title *Agent*

State of *Maine*
County of *Penobscot*

Subscribed and sworn to before me this *8th* day of *June*, *2016*.

Nancy M. Gott
Notary Public - _____

My Commission Expires: *May 13, 2021*

NANCY M. GOTT
Notary Public • State Of Maine
My Commission Expires May 13, 2021

Section 5.3. Requirements for Extending Sanitary Sewer Systems: All extensions to the sanitary sewer system shall be properly designed in accordance with this Ordinance and the most recent edition of the Recommended Standards for Sewage Works, as adopted by the Great Lakes Upper Mississippi River Board of State Sanitary Engineers. All design computations, plans and specifications shall be stamped and signed by a professional engineer, currently registered in the State of Maine. Plans and specifications and computations for sewer extension shall be submitted to and approval obtained from the Town before construction may proceed. Plans and profiles of proposed sewerline construction shall be a scale of 1 inch equals 40 feet horizontal and 1 inch equals 4 feet vertical. Topographic base mapping shall be controlled with minimum 2 foot contour intervals. All mapping shall be based on MSL (Mean Sea Level) and Digital Data of GEO referenced plans as described below:

Submission of digital data/preparation of geo-referenced plans: The digital submission should include all applicable sewer features (pipes, junctions, pumps, etc), topography, property lines, wetlands, or any other applicable features as would be shown on a printed plan. Features are to be GPS located using at least sub-meter accuracy GPS units. Plans are to be geographically referenced using no less than four non-linear (dispersed across the area) projected control points of at least sub-meter accuracy and shall be submitted in one of two acceptable formats: 1) Universal Transverse Mercator (UTM) Zone 19 meters, or 2) US State Plan Coordinate System Maine Zone East 1983 feet. Accepted file types are MapInfo .tab and associated files, ESRI .shp and associated files, AutoCAD .dwg files. AutoCAD files must be purged of all empty layers and presented with model space objects only. All files are to be submitted with clear layer names, such as "Sewer-Line-8inch", that obviously describe each layer (for example, "gp-pl-0" is not acceptable). Metadata should be included if available. If not available, a text file should be included with the following: surveyor or engineer name and license number, phone number, mailing address, email address, projection and datum used, date of preparation of data, description of equipment used to collect data (make, model, manufacturer's reported accuracy level), any disclaimers, limitations, or other notes. Files should be submitted on a CD or DVD.

Section 5.5. Transfer of Ownership to the Town: All extensions of public sewerage shall become the property of the Town through the following procedures initiated by the Developer:

The developer shall:

1. Request written approval from the Town indicating that all sewer improvements have been completed as specified herein to their satisfaction.
2. Indicate in writing to the Manager that said improvements will be guaranteed against defects in materials or workmanship for a period of 18 months from the time of acceptance by the Town.
3. Indicate in writing to the Manager that said sewer improvements are free and clear of any liens, all right-of-ways have been deeded to the Town as shown on the approved subdivision plans.
4. Petition the Manager in writing to go before the Council to request acceptance of the sewer line.

After all the above items have been completed by the developer, the manager may then schedule the item for review by the Town Council. The Town Council shall be the ruling authority on acceptance.

Nash Consulting

20 Nash Hill Road
Newburgh, Me 04444
Tel: 207-234-2650
E-mail: nshcon@uninets.net

To: Sean Milligan

5/20/2016

From: Greg Nash

Subject: Ammo Sewer Replacement – Test Reports

Sean,

Attached you find copies of the test reports for the subject project.

1. Manhole vacuum testing
2. Sewer Line pressure testing
3. Pipe mandrel and flushing

As always it is a pleasure working with Sargent Corporation.

Please let me know if I can be of any further assistance in this matter.

Respectfully,

Greg Nash

A handwritten signature in black ink, appearing to read "Greg Nash", written over the printed name.

MANHOLE TESTING REPORT

Project: AMMO SEWER REPLACE Date: 5/16
Location: STA 29+43 M.H. No.: "J"
M.H. Purpose/Size: SEWER / 4'Ø M.H. Depth: 86"
Spec. Ref.: STA 29+43

Type of Test:

Vacuum Pass Fail
Exfiltration _____
Infiltration See Remarks _____

Vacuum Test:

Allowable Loss 1.0 in/hg/min
Gauge Reading Zero Condition _____ in/hg
Gauge reading Start Test _____ in/hg
Gauge Reading End Test _____ in/hg
Difference _____ in/hg
Duration of Test _____ min

Exfiltration Test:

Allowable Loss _____ Gal/Hr
Depth to Water below M.H. _____
Start Test _____ in.
End Test _____ in.
Difference _____ in.
Duration of Test _____ Hours
Water Loss _____ Gallons

Infiltration: Record Observations Below

Remarks: MANHOLE WAS EXCAVATED AND ALL JOINTS WATER PLUGGED. RETESTED - PASSED - OBSERVED BY PAUL WEAVER

Observed By:

Contractor Greg Nash (Date) 5/20/16
TOWN OF HAMPDEN (Date)

MANHOLE TESTING REPORT

Project: ANNINO SEWER REPLACE Date: 4/29/16
 Location: STA 7+05 M.H. No.: MHC
 M.H. Purpose/Size: SEWER / 4'φ M.H. Depth: 8'-4"
 Spec. Ref.: STA 7+05

Type of Test:

	Pass	Fail
Vacuum		
Exfiltration		
Infiltration See Remarks		

Vacuum Test:

Allowable Loss	<u>1.0</u>	in/hg/min
Gauge Reading Zero Condition	<u>0.0</u>	in/hg
Gauge reading Start Test	<u>9.9</u>	in/hg
Gauge Reading End Test	<u>9.6</u>	in/hg
Difference	<u>.3</u>	in/hg
Duration of Test	<u>1 MIN</u>	min

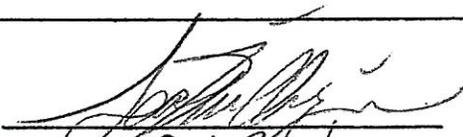
Exfiltration Test:

Allowable Loss		Gal/Hr
Depth to Water below M.H.		
Start Test		in.
End Test		in.
Difference		in.
Duration of Test		Hours
Water Loss		Gallons

Infiltration: Record Observations Below

Remarks: _____

Observed By: _____

 Contractor  TOWN OF HAMPDEN	<u>05/11/16</u> (Date) <u>4/29/16</u> (Date)
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MANHOLE TESTING REPORT

Project: AMMO SEWER REPLACE Date: 4/26/16
Location: STA 29+43 M.H. No.: MH J
M.H. Purpose/Size: SEWER / 4' φ M.H. Depth: 86"
Spec. Ref.: STA 29+43

Type of Test:

Pass

Fail

Vacuum

Exfiltration

Infiltration See Remarks

Vacuum Test:

~~###~~

Allowable Loss	_____	in/hg/min
Gauge Reading Zero Condition	_____	in/hg
Gauge reading Start Test	_____	in/hg
Gauge Reading End Test	_____	in/hg
Difference	_____	in/hg
Duration of Test	_____	min

Exfiltration Test:

Allowable Loss	_____	Gal/Hr
Depth to Water below M.H.	_____	
Start Test	_____	in.
End Test	_____	in.
Difference	_____	in.
Duration of Test	_____	Hours
Water Loss	_____	Gallons

Infiltration: Record Observations Below

Remarks: LEAKING AROUND 6" SERVICE PIPE -
WOULD NOT DRAW VACUUM

Observed By:

[Signature]
Contractor
[Signature]

05/16/2016
(Date)
4/26/16
(Date)

MANHOLE TESTING REPORT

Project: Ammo SEWER REPLACE Date: 4/26/16
 Location: STA 27+95 M.H. No.: MHI
 M.H. Purpose/Size: SEWER / 4'4 M.H. Depth: 98"
 Spec. Ref.: STA 27+95

Type of Test:

Pass **Fail**

Vacuum
 Exfiltration
 Infiltration See Remarks

Vacuum Test:

Allowable Loss	<u>1.0</u>	in/hg/min
Gauge Reading Zero Condition	<u>0.0</u>	in/hg
Gauge reading Start Test	<u>10.0</u>	in/hg
Gauge Reading End Test	<u>10.0</u>	in/hg
Difference	<u>0</u>	in/hg
Duration of Test	<u>1 MIN</u>	min

Exfiltration Test:

Allowable Loss		Gal/Hr
Depth to Water below M.H.		
Start Test		in.
End Test		in.
Difference		in.
Duration of Test		Hours
Water Loss		Gallons

Infiltration: Record Observations Below

Remarks: _____

Observed By:

<u><i>Greg Nash</i></u> Contractor	<u>05/11/2016</u> (Date)
<u>Greg Nash</u> TOWN OF HAMPDEN	<u>4/26/16</u> (Date)

MANHOLE TESTING REPORT

Project: Ammo SEWER REPLACE Date: 4/22/16
 Location: STA 24+50 M.H. No.: MH "H"
 M.H. Purpose/Size: SEWER / 4' φ M.H. Depth: _____
 Spec. Ref.: STA 24+50

Type of Test:

Pass
Fail

Vacuum _____
 Exfiltration _____
 Infiltration See Remarks _____

Vacuum Test:

Allowable Loss	<u>1.0</u>	in/hg/min
Gauge Reading Zero Condition	<u>0.0</u>	in/hg
Gauge reading Start Test	<u>10.0</u>	in/hg
Gauge Reading End Test	<u>9.5</u>	in/hg
Difference	<u>.5</u>	in/hg
Duration of Test	<u>1 MIN</u>	min

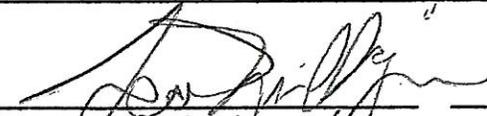
Exfiltration Test:

Allowable Loss		Gal/Hr
Depth to Water below M.H.	_____	
Start Test	_____	in.
End Test	_____	in.
Difference	_____	in.
Duration of Test	_____	Hours
Water Loss	_____	Gallons

Infiltration: Record Observations Below

Remarks: _____

Observed By:

 _____ Contractor	<u>05/11/2016</u> _____ (Date)
<u>TOWN OF HAMPDEN</u> _____	<u>4/22/16</u> _____ (Date)

MANHOLE TESTING REPORT

Project: Ammd SEWER REPLACE Date: _____
 Location: STA 20+50 M.H. No.: MH "G"
 M.H. Purpose/Size: SEWER / 4'φ M.H. Depth: _____
 Spec. Ref.: STA 20+50

Type of Test:

	<u>Pass</u>	Fail
<u>Vacuum</u>	_____	_____
Exfiltration	_____	_____
Infiltration See Remarks	_____	_____

Vacuum Test:

Allowable Loss	<u>1.0</u>	in/hg/min
Gauge Reading Zero Condition	<u>0.0</u> 10.1	in/hg
Gauge reading Start Test	<u>10.1</u>	in/hg
Gauge Reading End Test	<u>9.6</u>	in/hg
Difference	<u>.5</u>	in/hg
Duration of Test	<u>1 MIN</u>	min

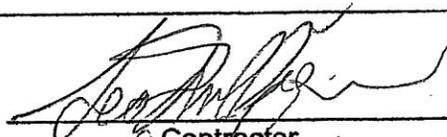
Exfiltration Test:

Allowable Loss	_____	Gal/Hr
Depth to Water below M.H.	_____	
Start Test	_____	in.
End Test	_____	in.
Difference	_____	in.
Duration of Test	_____	Hours
Water Loss	_____	Gallons

Infiltration: Record Observations Below

Remarks: _____

Observed By:

 Contractor	<u>05/11/2016</u> (Date)
<u>Greg Wash</u> TOWN OF HAMPDEN	<u>4/22/16</u> (Date)

MANHOLE TESTING REPORT

Project: AMMO SEWER REPLACE Date: 4/22/16
 Location: STA 16+95 M.H. No.: MH 'E'
 M.H. Purpose/Size: SEWER / 4'φ M.H. Depth: _____
 Spec. Ref.: 16+95

Type of Test:

Pass
Fail

Vacuum
 Exfiltration _____
 Infiltration See Remarks _____

Vacuum Test:

Allowable Loss	<u>1.0</u>	in/hg/min
Gauge Reading Zero Condition	<u>0.0</u>	in/hg
Gauge reading Start Test	<u>10.0</u>	in/hg
Gauge Reading End Test	<u>9.9</u>	in/hg
Difference	<u>.1</u>	in/hg
Duration of Test	<u>1 MIN</u>	min

Exfiltration Test:

Allowable Loss	_____	Gal/Hr
Depth to Water below M.H.	_____	
Start Test	_____	in.
End Test	_____	in.
Difference	_____	in.
Duration of Test	_____	Hours
Water Loss	_____	Gallons

Infiltration: Record Observations Below

Remarks: _____

Observed By: _____


 Contractor _____ Date: 05/14/2010
 _____ Date: 4/22/16
 TOWN OF HAMPDEN (Date)

MANHOLE TESTING REPORT

Project: AMMO SEWER REPLACE Date: 4/22/16
 Location: STA 13+00 M.H. No.: MH 'E'
 M.H. Purpose/Size: 4' φ / SEWER M.H. Depth: _____
 Spec. Ref.: STA 13+00

Type of Test:

	<u>Pass</u>	Fail
<u>Vacuum</u>		
Exfiltration		
Infiltration See Remarks		

Vacuum Test:

Allowable Loss	<u>1.0</u>	in/hg/min
Gauge Reading Zero Condition	<u>0.0</u>	in/hg
Gauge reading Start Test	<u>10.4</u>	in/hg
Gauge Reading End Test	<u>9.6</u>	in/hg
Difference	<u>0.8</u>	in/hg
Duration of Test	<u>1 MIN</u>	min

Exfiltration Test:

Allowable Loss		Gal/Hr
Depth to Water below M.H.		
Start Test		in.
End Test		in.
Difference		in.
Duration of Test		Hours
Water Loss		Gallons

Infiltration: Record Observations Below

Remarks: _____

Observed By: _____

 Contractor <u>Greg Nash</u> TOWN OF HAMPDEN	<u>05/11/2016</u> (Date) <u>4/22/16</u> (Date)
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MANHOLE TESTING REPORT

Project: AMMO SEWER REPLACE Date: 4/21/16
 Location: STA 11403 M.H. No.: D
 M.H. Purpose/Size: SEWER 4' M.H. Depth: 6'
 Spec. Ref.: _____

Type of Test:

Pass **Fail**

Vacuum
 Exfiltration
 Infiltration See Remarks

Vacuum Test:

Allowable Loss	<u>1.0</u>	in/hg/min
Gauge Reading Zero Condition	<u>0.0</u>	in/hg
Gauge reading Start Test	<u>10.0</u>	in/hg
Gauge Reading End Test	<u>10.0</u>	in/hg
Difference	<u>0</u>	in/hg
Duration of Test	<u>1.0</u>	min

Exfiltration Test:

Allowable Loss	_____	Gal/Hr
Depth to Water below M.H.	_____	
Start Test	_____	in.
End Test	_____	in.
Difference	_____	in.
Duration of Test	_____	Hours
Water Loss	_____	Gallons

Infiltration: Record Observations Below

Remarks: _____

Observed By:

<u><i>[Signature]</i></u> Contractor <u><i>Greg Nash</i></u> TOWN OF HAMPDEN	<u><i>05/11/2016</i></u> (Date) <u><i>4/21/16</i></u> (Date)
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MANHOLE TESTING REPORT

Project: AMMO SEWER REPLACE Date: 4/15/16
 Location: STA 3+05 FIELD M.H. No.: "B"
 M.H. Purpose/Size: SEWER 4'φ M.H. Depth: 8 FT
 Spec. Ref.: STA 3+05

Type of Test:

	<u>Pass</u>	Fail
<u>Vacuum</u>		
Exfiltration		
Infiltration See Remarks		

Vacuum Test:

Allowable Loss	<u>1.0</u>	in/hg/min
Gauge Reading Zero Condition	<u>0</u>	in/hg
Gauge reading Start Test	<u>10.0</u>	in/hg
Gauge Reading End Test	<u>9.9</u>	in/hg
Difference	<u>0.1</u>	in/hg
Duration of Test	<u>1 MIN (60 SEC)</u>	min

Exfiltration Test:

Allowable Loss		Gal/Hr
Depth to Water below M.H.		
Start Test		in.
End Test		in.
Difference		in.
Duration of Test		Hours
Water Loss		Gallons

Infiltration: Record Observations Below

Remarks: _____

Observed By: _____

 Contractor <u>Greg Tash</u> TOWN OF HAMPDEN	<u>05/11/2016</u> (Date) <u>4/15/16</u> (Date)
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SEWER LINE PRESSURE TEST REPORT

PROJECT: Ammo Sewer Replace DATE: 4/26/16

LOCATION: Hampden Ammo Park

TEST LOCATION
MANHOLE # "I" TO MANHOLE# "J"

PIPE SIZE DIA. 8" LENGTH FT. 148

SERVICES INSTALLED: YES NO

GROUND WATER ABOVE PIPE: YES NO

TEST
AIR PRESS START: 3.9 AIR PRESS FINISH: 3.9

TIME START: 12:06 TIME FINISH: 12:10

TEST RESULT
PASSED: FAILED:

OBSERVED BY: [Signature]
CONTRACTOR: SARGENT CORP.

[Signature]
OWNER: TOWN OF HAMPDEN

SEWER LINE PRESSURE TEST REPORT

PROJECT: Ammo Sewer Replace DATE: 4/26/16

LOCATION: Hampden Ammo Park

TEST LOCATION

MANHOLE # "H" TO MANHOLE# "I"

PIPE SIZE DIA. 8" LENGTH FT. 345

SERVICES INSTALLED: YES NO

GROUND WATER ABOVE PIPE: YES NO

TEST

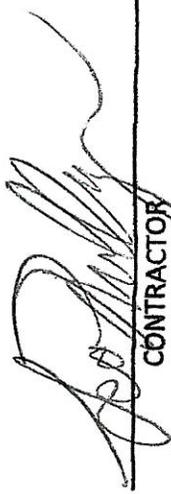
AIR PRESS START: 3.8 AIR PRESS FINISH: 3.8

TIME START: 1:00 TIME FINISH: 1:04

TEST RESULT

PASSED: FAILED:

OBSERVED BY:


CONTRACTOR


OWNER:

SARGENT CORP.

TOWN OF HAMPDEN

SEWER LINE PRESSURE TEST REPORT

PROJECT: Ammo Sewer Replace DATE: 4/26/16

LOCATION: Hampden Ammo Park

TEST LOCATION
MANHOLE # "G" TO MANHOLE# "H"

PIPE SIZE DIA. 8" LENGTH FT. 400

SERVICES INSTALLED: YES NO

GROUND WATER ABOVE PIPE: YES NO

TEST
AIR PRESS START: 3.9 AIR PRESS FINISH: 3.9

TIME START: 3:14 TIME FINISH: 3:18

TEST RESULT
PASSED: FAILED:

OBSERVED BY: [Signature]
CONTRACTOR
SARGENT CORP.

[Signature]
OWNER:
TOWN OF HAMPDEN

SEWER LINE PRESSURE TEST REPORT

PROJECT: Ammo Sewer Replace DATE: 4/26/16

LOCATION: Hampden Ammo Park

TEST LOCATION
MANHOLE # "F" TO MANHOLE# "G"

PIPE SIZE DIA. 8" LENGTH FT. 355

SERVICES INSTALLED: YES NO

GROUND WATER ABOVE PIPE: YES NO

TEST
AIR PRESS START: 3.9 AIR PRESS FINISH: 3.9

TIME START: 3:39 TIME FINISH: 3:43

TEST RESULT
PASSED: FAILED:

OBSERVED BY: [Signature]
CONTRACTOR
SARGENT CORP.

[Signature]
OWNER:
TOWN OF HAMPDEN

SEWER LINE PRESSURE TEST REPORT

PROJECT: Ammo Sewer Replace DATE: 4/26/16

LOCATION: HAMPDEN Ammo Park

TEST LOCATION
MANHOLE # "E" TO MANHOLE# "F"

PIPE SIZE DIA. 8" LENGTH FT. 395

SERVICES INSTALLED: YES NO

GROUND WATER ABOVE PIPE: YES NO

TEST
AIR PRESS START: 4.0 AIR PRESS FINISH: 4.0

TIME START: 4:48 TIME FINISH: 4:52

TEST RESULT
PASSED: FAILED:

OBSERVED BY: [Signature]
CONTRACTOR
SARGENT CORP.

[Signature]
OWNER:
TOWN OF HAMPDEN

SEWER LINE PRESSURE TEST REPORT

PROJECT: Ammo Sewer Replace DATE: 4/26/16

LOCATION: Hampden Ammo Park

TEST LOCATION
MANHOLE # "D" TO MANHOLE# "E"

PIPE SIZE DIA. 8" LENGTH FT. 197

SERVICES INSTALLED: YES NO

GROUND WATER ABOVE PIPE: YES NO

TEST
AIR PRESS START: 3.6 AIR PRESS FINISH: 3.6

TIME START: 4:28 TIME FINISH: 4:32

TEST RESULT
PASSED: FAILED:

OBSERVED BY: [Signature] OWNER: [Signature]
CONTRACTOR: SARGENT CORP. TOWN OF HAMPDEN

SEWER LINE PRESSURE TEST REPORT

PROJECT: AMMO SEWER DATE: 4/27/16

LOCATION: HAMPDEN AMMO PARK

TEST LOCATION

MANHOLE # "B" TO MANHOLE# "C"

PIPE SIZE DIA. 8" LENGTH FT. 400

SERVICES INSTALLED: YES

GROUND WATER ABOVE PIPE: YES

NO
NO

TEST

AIR PRESS START: _____ AIR PRESS FINISH: _____

TIME START: _____ TIME FINISH: _____

TEST RESULT

PASSED: FAILED: _____

OBSERVED BY: _____

[Signature]
CONTRACTOR
SARGENT CORP.

D. PATTERSON
OWNER:
TOWN OF HAMPDEN

SEWER LINE PRESSURE TEST REPORT

PROJECT: Ammo Sewer Replace DATE: 4/27/16

LOCATION: Hampden Ammo Paris

TEST LOCATION
MANHOLE # "C" TO MANHOLE# D

PIPE SIZE DIA. 8" LENGTH FT. 398

SERVICES INSTALLED: YES NO

GROUND WATER ABOVE PIPE: YES NO

TEST
AIR PRESS START: _____ AIR PRESS FINISH: _____

TIME START: _____ TIME FINISH: _____

TEST RESULT
PASSED: FAILED: _____

OBSERVED BY: [Signature] CONTRACTOR: SARGENT CORP.
OWNER: D. PATTERSON TOWN OF HAMPDEN

Nash Consulting

20 Nash Hill Road
Newburgh, Me 04444
Tel: 207-234-2650
E-mail: nshcon@uninets.net

To: Sean Currier, PWD

5/20/2016

From: Greg Nash

Subject: Ammo Sewer Replacement – Final

Sean,

This letter is to document that the Ammo Sewer Replacement Project is now complete and ready for Town of Hampden acceptance. All completed test forms are attached including:

1. Manhole vacuum testing
2. Sewer Line pressure testing
3. Pipe mandrel and flushing
4. As built marked up field drawings

Sargent Corporation also has been issued a copy of all test forms.

Please let me know if I can be of any further assistance in this matter.

As always it is a pleasure working for the Town of Hampden.

Respectfully,

Greg Nash



SARGENT

C O R P O R A T I O N

Excellence for Generations.

AN EMPLOYEE OWNED COMPANY

June 6, 2016

Mr. Sean Currier
Town of Hampden – Public Works
106 Western Ave.
Hampden, ME 04444

Re: Request for Transfer of Ownership – Carey Circle Extension Sanitary Sewer

Mr. Currier,

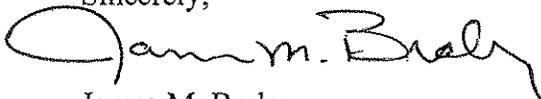
As you are aware, we have completed the installation of the sanitary sewer for the Carey Circle Extension, in the Hampden Business Park. At this time, we are requesting written approval from the Town stating that the sewer improvements have been completed as specified in the Town of Hampden Sewer Ordinance.

We further request you go before the Town Council to request acceptance of the referenced sewer line.

Enclosed you will find our letter of warranty, lien waiver and the vacuum, pressure and mandrel test results.

Please contact me at 207-990-1735 or jbraley@sargent-corp.com, should you need additional information.

Sincerely,



James M. Braley
Project Manger

Main Office
378 Bennoch Road
P.O. Box 435
Stillwater, Maine 04489
Phone: (207) 827-4435
Fax: (207) 827-6150

Bangor Regional Office
489 Odlin Road
Suite 101
Bangor, ME 04401
Phone: (207) 990-1735
Fax: (207) 990-2432

Mid-Atlantic Regional Office
11139 Air Park Road
Suite 1
Ashland, VA 23005
Phone: (804) 368-7118
Fax: (804) 368-7387

SARGENT

C O R P O R A T I O N

Excellence for Generations.

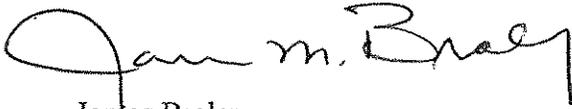
AN EMPLOYEE OWNED COMPANY

LETTER OF WARRANTY

PROJECT: Hampden Business Park – Carey Circle Extension

Sargent Corporation hereby warrants the sanitary sewer installed as part of the Carey Circle Extension from defects in material or workmanship for a period of 18 months from the time of acceptance by the Town, excluding any damages or problems caused by a lack of maintenance, negligence, alterations, misuse or acts of God. The Town shall notify Sargent Corporation, in writing, within thirty (30) days of knowledge of defect, at which time Sargent Corporation, or a representative of their choosing, will correct, repair or replace the defective item, at their discretion, meeting the material and workmanship standards established in the Town of Hampden Sewer Ordinance. Sargent Corporation, or its representative, shall be given access to the site and reasonable work area to perform warranty work during normal business hours. Sargent Corporation shall be given first opportunity to correct, repair, or replace any defective item at no cost to the Town within a reasonable amount of time. If Sargent Corporation is not afforded this opportunity, all costs incurred to remedy the defect shall be at the Town's expense.

Sargent Corporation



James Braley
Project Manager
378 Bennoch Road
P.O. Box 435
Stillwater, ME 04489
207-990-1735

Main Office
378 Bennoch Road
P.O. Box 435
Stillwater, Maine 04489
Phone: (207) 827-4435
Fax: (207) 827-6150

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SARGENT

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AN EMPLOYEE OWNED COMPANY

LIEN AND CLAIM WAIVER

PROJECT: Hampden Business Park – Carey Circle Extension

The undersigned, on oath, state that all persons and firms who supplied work, labor, materials and services to the undersigned in connection with said Project have been fully paid by the undersigned for such work items and does fully release and hold harmless the Town from any and all claims, liens or rights to claim or lien, arising out of this Project.

Sargent Corporation

by Jam M. Brady
Title PROJECT MANAGER

State of MAINE
County of PENOBSCOT

Subscribed and sworn to before me this 7th day of June, 2016.

Notary Public - Graig Olney

My Commission Expires: 8/2/21

Main Office
378 Bennoch Road
P.O. Box 436
Stillwater, Maine 04489
Phone: (207) 827-4435
Fax: (207) 827-6150

Bangor Regional Office
489 Odlin Road
Suite 101
Bangor, ME 04401
Phone: (207) 990-1735
Fax: (207) 990-2432

Mid-Atlantic Regional Office
11139 Air Park Road
Suite 1
Ashland, VA 23005
Phone: (804) 368-7118
Fax: (804) 368-7387

SARGENT

C O R P O R A T I O N

Excellence for Generations.

Mandrel Test Data Sheet

Date: 5/19/16

Project: Hampton Bus-Park

Pipe Material: SDR35

Max Allowed Deflection: 5%

Upstream MH Sta. #	Downstream MH Sta. #	Pipe Dia. (inches)	Length (feet)	Pass or Fail
33	34	12	250	Fail
32	33	12	280	Pass
31	32	12	140	Pass
34	35	12	400	Pass
35	SMITH	12	315	Pass
25	24	8	170	Pass
26	25	8		Pass
27	26	8		Pass
28	27	8		Pass
24	23 (Partial Test)	8/12		8" through

Inspector: _____
(Signature)

Date: _____

Contractor: MATT CHAMBERS
(Signature)

Date: 5/19/16

SARGENT

C O R P O R A T I O N

Excellence for Generations

~~WATER AND SEWER SERVICES COMPANY~~

SEWER PRESSURE TEST

PROJECT: Hampden Business Park

Date: 12/7/15

From: Existing SAH 23 To: SAH 24

Pressure at start of test: 4 psi

Pressure at end of test: 4 psi

Change: 0

Time at start of test: 2:47 pm

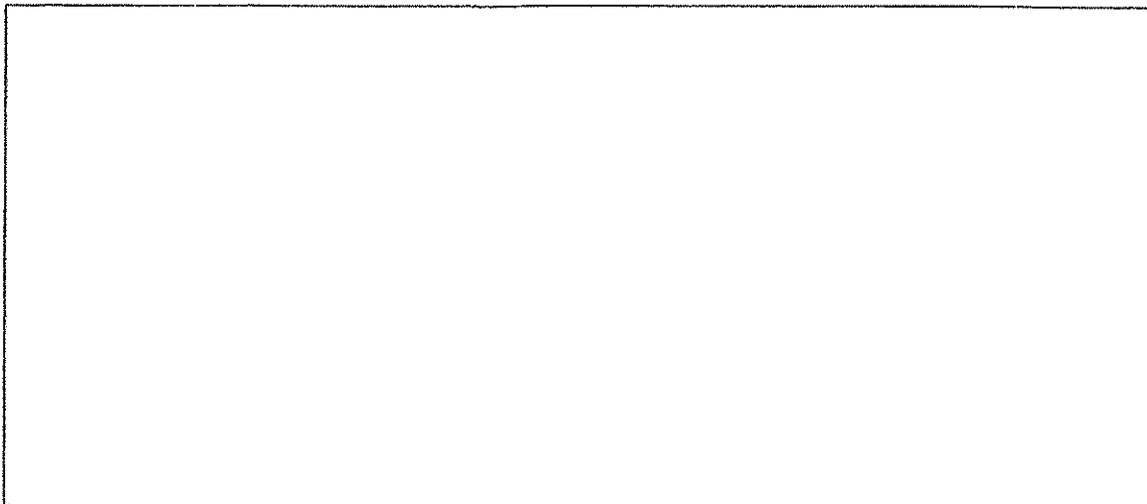
Time at finish of test: 2:50 pm

Duration: 3 minutes

Test Performed By: Austin Mann

Test Witnessed By: James Wil

Location Sketch



SARGENT

C O R P O R A T I O N

Excellence for Generations.

~~ENVIRONMENTAL ENGINEERING~~

SEWER PRESSURE TEST

PROJECT: Hamden Business Park

Date: 12/7/15

From: SMA 24 To: SMA 25

Pressure at start of test: 4 psi

Pressure at end of test: 4 psi

Change: 0

Time at start of test: 1:50 pm

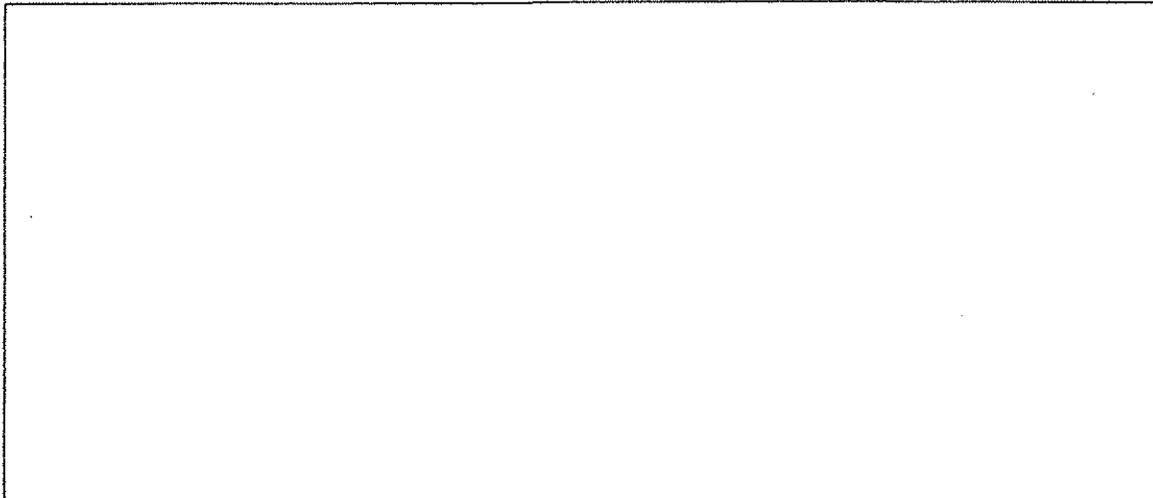
Time at finish of test: 1:53 pm

Duration: 3 minutes

Test Performed By: AWT 41000

Test Witnessed By: James Wilson

Location Sketch



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Excellence for Generations



SEWER PRESSURE TEST

PROJECT: Hampton Business Park

Date: 12/7/15

From: SMH 25 To: SMH 26

Pressure at start of test: 4 psi

Pressure at end of test: 4 psi

Change: 0

Time at start of test: 1:03 pm

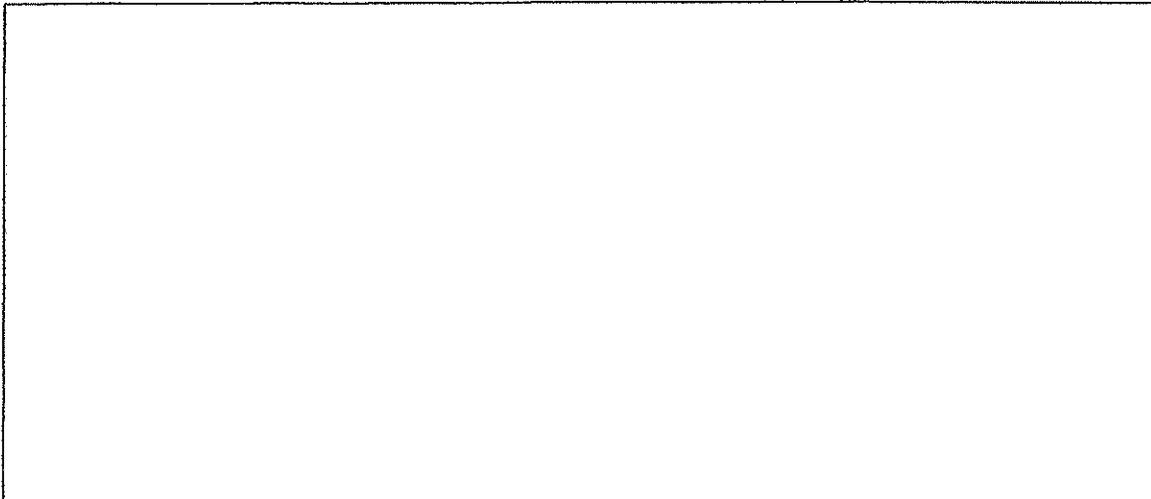
Time at finish of test: 1:06 pm

Duration: 3 minutes

Test Performed By: [Signature]

Test Witnessed By: James J. White

Location Sketch



SARGENT

C O R P O R A T I O N

Excellence for Generations.

SEWER REPAIRS

SEWER PRESSURE TEST

PROJECT: Hamden Bus. Park

Date: 3/24/10

From: SMT 26 To: SMT 27

Pressure at start of test: 4 Psi

Pressure at end of test: 4 Psi

Change: 0

Time at start of test: 3:30

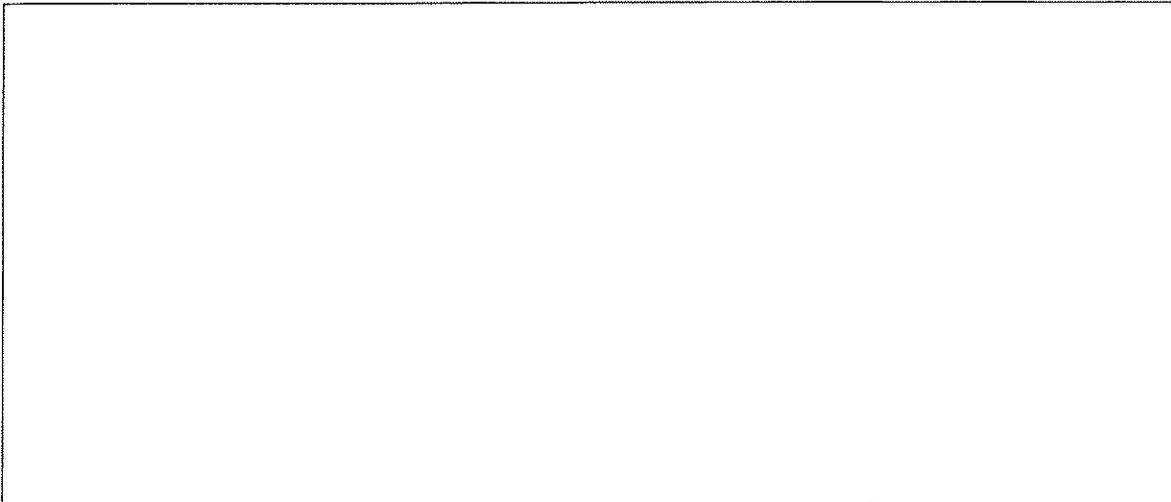
Time at finish of test: 3:34

Duration: 4 min.

Test Performed By: Doug Baker

Test Witnessed By: Josh Griffin-Macdonald

Location Sketch



SARGENT

C O R P O R A T I O N

Excellence for Generations.

W E T E R N P A C I F I C C O M P A N Y

SEWER PRESSURE TEST

PROJECT:

Hampton Bus Park

Date:

3/24/10

From:

SMT 27

To:

SMT 28

Pressure at start of test:

4 Psi

Pressure at end of test:

4 Psi

Change:

0

Time at start of test:

3:50

Time at finish of test:

3:54

Duration:

4 min.

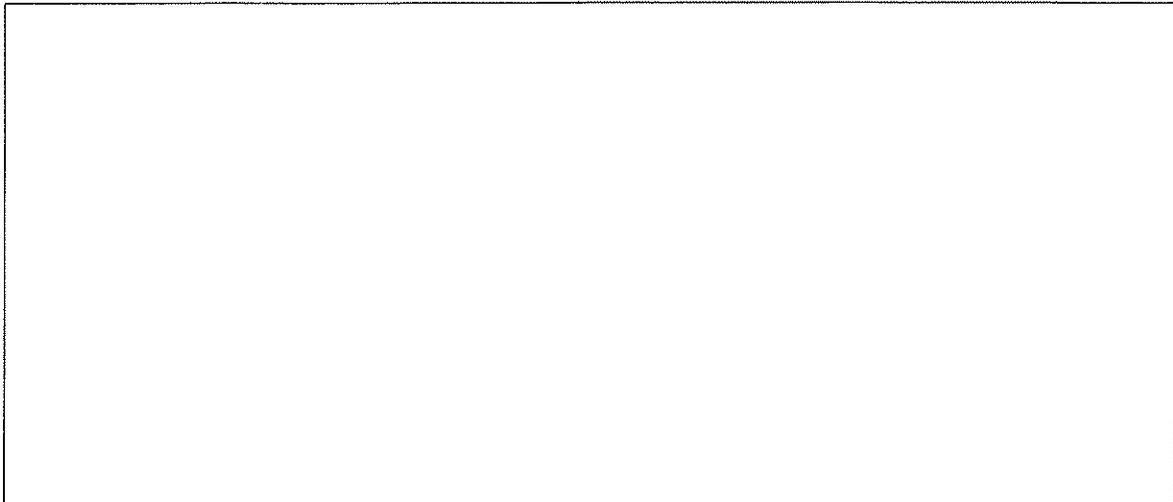
Test Performed By:

Doug Banner

Test Witnessed By:

Joshua Clayton Murdock

Location Sketch



SARGENT

C O R P O R A T I O N

Excellence for Generations.



SEWER PRESSURE TEST

PROJECT: Hampden Bus Park

Date: 5/25/16

From: Exist SMH B To: SMH 29
C

Pressure at start of test: 4 Psi

Pressure at end of test: 4 Psi

Change: 0

Time at start of test: 9:30

Time at finish of test: ~~9:34~~ ~~9:35.30~~ 9:36

Duration: 5.5 ~~4~~ min.

Test Performed By: Doug Bauer

Test Witnessed By: John Coffin-McKibbin

Location Sketch





SEWER PRESSURE TEST

PROJECT: Hampden Buss. Park

Date: 5/25/10

From: SMH 29 To: SMH 30

Pressure at start of test: 4 Psi

Pressure at end of test: 4 Psi

Change: 0

Time at start of test: 9:45

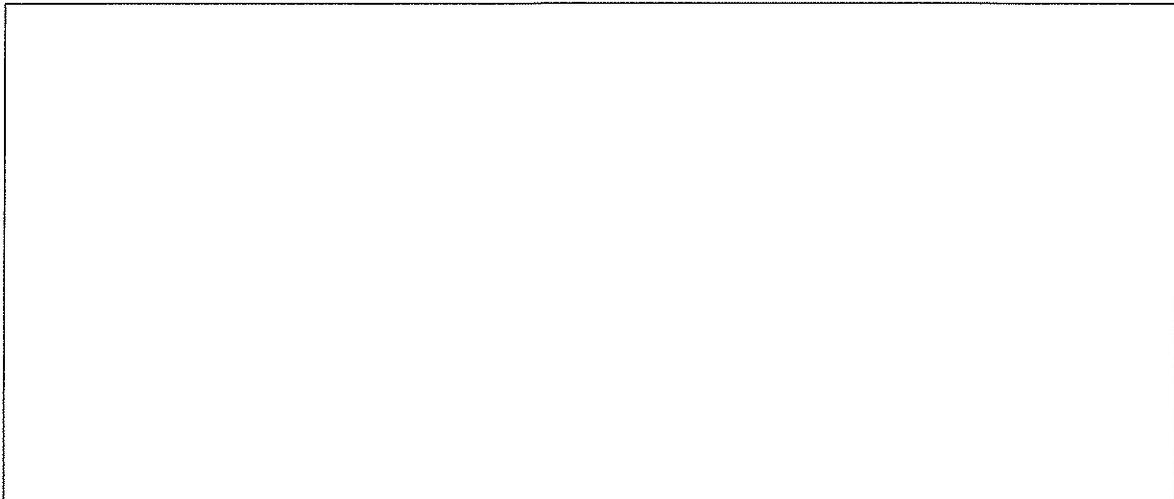
Time at finish of test: 9:51

Duration: 6 min

Test Performed By: Doug Bane

Test Witnessed By: Jack Cuffa-mcdonald.

Location Sketch



SARGENT

C O R P O R A T I O N

Excellence for Generations.

W E L C O M E T O T H E F U T U R E

SEWER PRESSURE TEST

PROJECT:

Hampden Bus. Park

Date:

8/25/10

From:

SMH 30

To:

SMH 31

Pressure at start of test:

4 Psi

Pressure at end of test:

4 Psi

Change:

0

Time at start of test:

10:30

Time at finish of test:

10:36

Duration:

6 min.

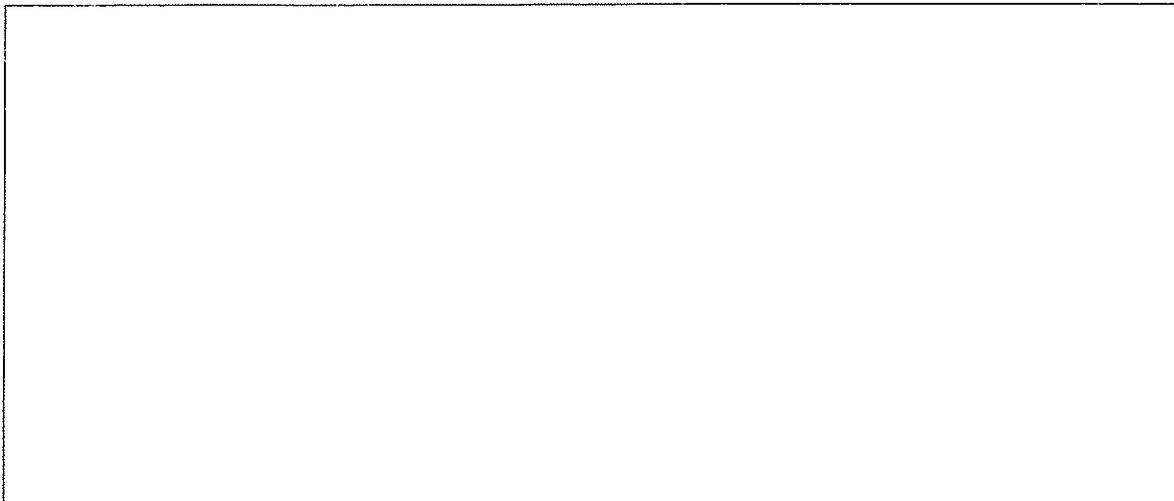
Test Performed By:

Doug Ranz

Test Witnessed By:

Joe Offen-Mackinold

Location Sketch



SARGENT

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Excellence for Generations.



SEWER PRESSURE TEST

PROJECT: Hampton Business Park

Date: 6/25/16

From: SMH 31 To: SMH 32

Pressure at start of test: ~~11.10~~ 4 psi

Pressure at end of test: ~~11.16~~ 4 psi

Change: ~~6 mins~~ 0

Time at start of test: 11:10

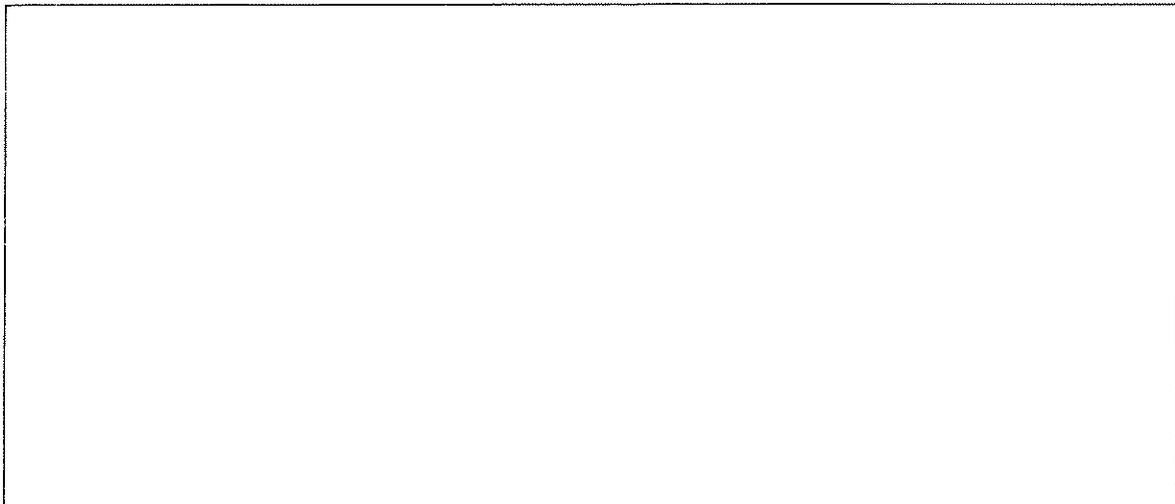
Time at finish of test: 11:16

Duration: 6 mins

Test Performed By: David Barnes

Test Witnessed By: Joshua Caffin-Macdonald

Location Sketch



SARGENT

C O R P O R A T I O N

Excellence for Generations.



SEWER PRESSURE TEST

PROJECT: Hampton Business Park

Date: 6/25/16

From: SMH 32 To: SMH 33

Pressure at start of test:

~~4.25~~ 4 psi

Pressure at end of test:

~~4.11~~ 4 psi

Change:

~~6 min~~ 0

Time at start of test:

1:05

Time at finish of test:

1:11

Duration:

6 mins

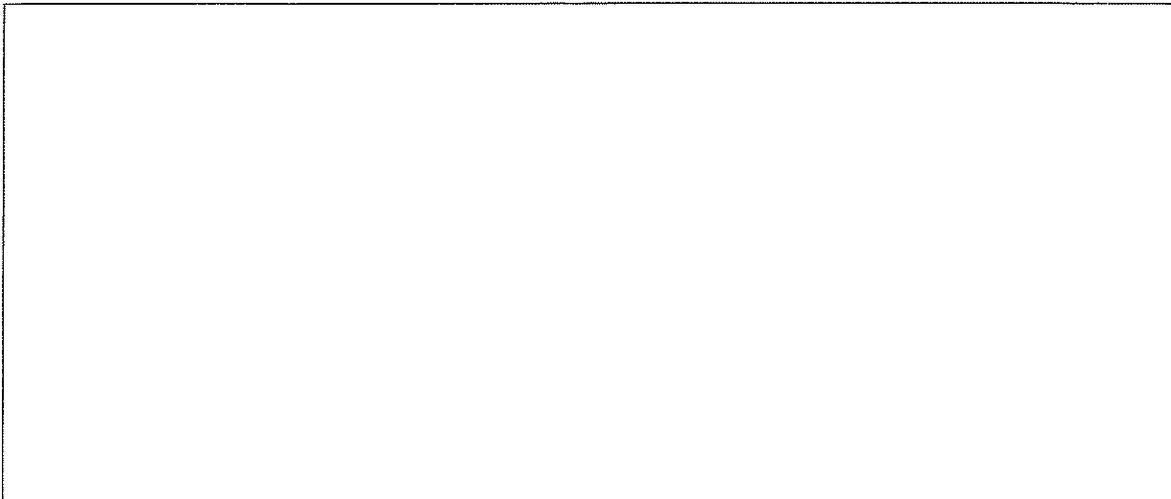
Test Performed By:

Don Bain

Test Witnessed By:

Joshua Carter-McDonald

Location Sketch



SARGENT

C O R P O R A T I O N

Excellence for Generations.

AN ENVIRONMENTAL SCIENCE COMPANY

SEWER PRESSURE TEST

PROJECT: Hampden Business Park

Date: 5/25/16

From: SMH 33 To: SMH 34

Pressure at start of test: 4 psi

Pressure at end of test: 4 psi

Change: 0

Time at start of test: 13:50

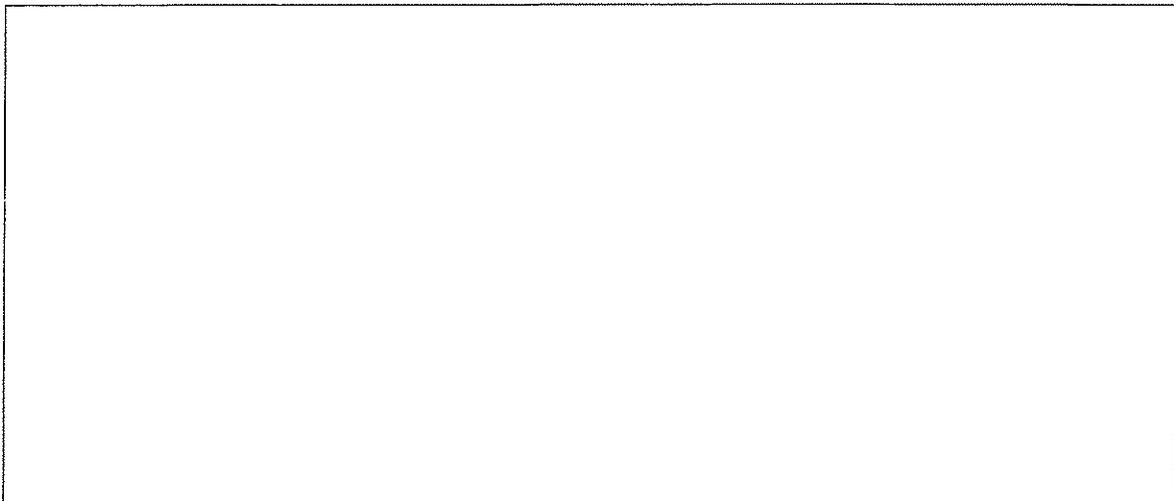
Time at finish of test: 13:56

Duration: 6

Test Performed By: 1. Doug Bains

Test Witnessed By: Jaha Coffin-Macdonald

Location Sketch



SARGENT

C O R P O R A T I O N

Excellency for Generations.



SEWER PRESSURE TEST

PROJECT: Hampton Business Park

Date: 12/8/15

From: S/H# 35 To: S/H# 34

Pressure at start of test: 4 psi

Pressure at end of test: 4 psi

Change: 0

Time at start of test: 9:45 am

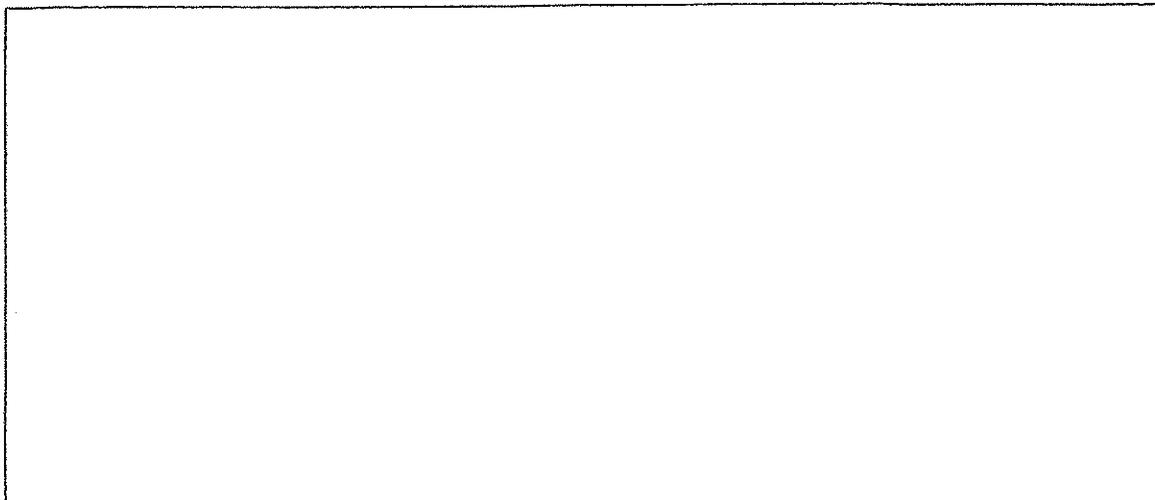
Time at finish of test: 9:48 am

Duration: 3 minutes

Test Performed By: AMM

Test Witnessed By: James d. Wilder

Location Sketch



SARGENT

C O R P O R A T I O N

Excellence for Generations.

MEMBERSHIP OWNERS COMPANY

SEWER PRESSURE TEST

PROJECT: Hampton Business Park

Date: 12/8/15

From: EXISTING SMAA To: SMH 35

Pressure at start of test: 4 PSI

Pressure at end of test: 4 PSI

Change: 0

Time at start of test: 7:56 am

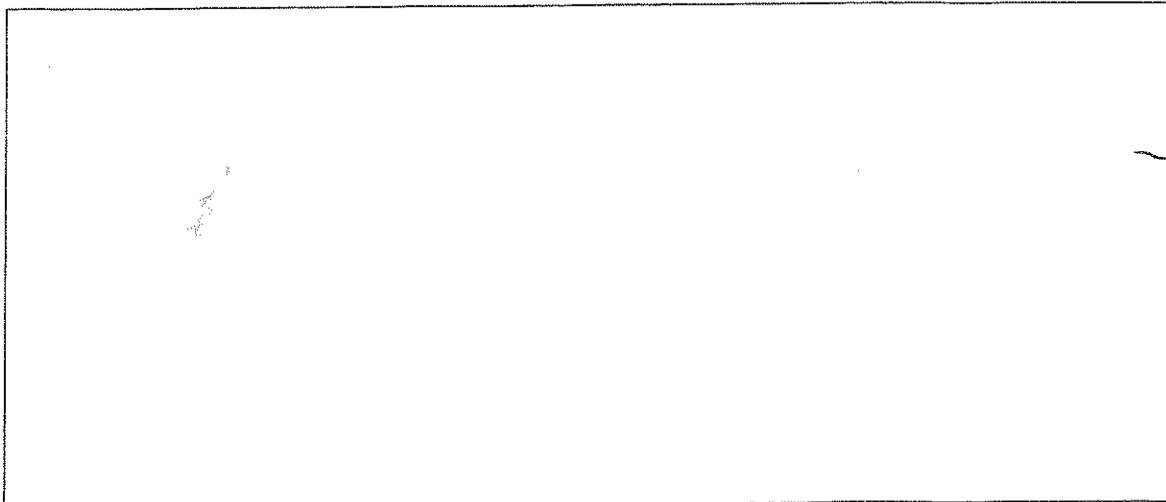
Time at finish of test: 7:59 am

Duration: 3 min

Test Performed By: Scott Mason

Test Witnessed By: Josh Crofton

Location Sketch



MANHOLE VACUUM TEST

PROJECT: Hampton Business Park

Date: 12-09-15

Structure #: 24 Diameter of Structure: 4'

Vacuum at start of test: 10

Vacuum at end of test: 9.75

Change: .25

Time at start of test: 10:00 a.m.

Time at finish of test: 10:02 a.m.

Duration: 2min

Test Performed By: Jacob Stevens

Test Witnessed By: Josh Crofton

SARGENT

C O R P O R A T I O N

Excellence for Generations.

MANHOLE VACUUM TEST

PROJECT: HAMPDEN BUSINESS PARK

Date: 12/7/15

Structure #: 25 Diameter of Structure: 4'

Vacuum at start of test: 10

Vacuum at end of test: 10

Change: 0

Time at start of test: 2:11

Time at finish of test: 2:13

Duration: 2 min

Test Performed By: Doug Bann

Test Witnessed By: John Wilk

SARGENT

C O R P O R A T I O N

Excellence for Generations.

MANHOLE VACUUM TEST

PROJECT: HAMPDEN BUSINESS PARK

Date: 12/7/15

Structure #: 26 Diameter of Structure: 4'

Vacuum at start of test: 10

Vacuum at end of test: 9.5

Change: 0.5

Time at start of test: 2:42

Time at finish of test: 2:44

Duration: 2 MIN

Test Performed By: Don Danner

Test Witnessed By: Jim White

SARGENT

C O R P O R A T I O N

Excellence for Generations.

MANHOLE VACUUM TEST

PROJECT: HAMPDEN BUSINESS PARK

Date: 1/5/16

Structure #: 27 Diameter of Structure: 4'

Vacuum at start of test: 10

Vacuum at end of test: 9.75

Change: 0.25

Time at start of test: 3:11

Time at finish of test: 3:13

Duration: 2 MIN

Test Performed By: Don Barber

Test Witnessed By: [Signature]

SARGENT

C O R P O R A T I O N

Excellence for Generations.

MANHOLE VACUUM TEST

PROJECT: HAMPDEN BUSINESS PARK

Date: 1/7/16

Structure #: 28 Diameter of Structure: 4'

Vacuum at start of test: 10

Vacuum at end of test: 9.75

Change: 0.25

Time at start of test: 2:33

Time at finish of test: 2:35

Duration: 2 MIN

Test Performed By: Don Barron

Test Witnessed By: Jim White

SARGENT

C O R P O R A T I O N

Excellence for Generations.

WATER • SEWER • GAS • RENEWABLE ENERGY

SEWER PRESSURE TEST MANHOLE VACUUM

PROJECT: Hempden Businesspark

Date: 12-09-15

From: SMH29 To: _____

Pressure at start of test: 10

Pressure at end of test: 10

Change: 0

Time at start of test: 8:52 am

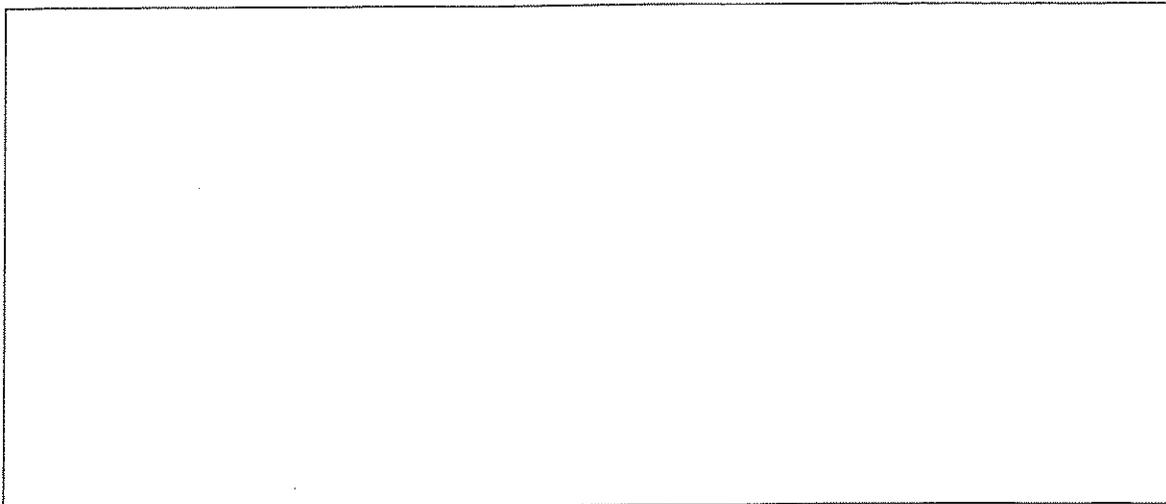
Time at finish of test: 8:54 am

Duration: 2min

Test Performed By: Jacob Stevens

Test Witnessed By: Josh Crofton

Location Sketch



SARGENT

C O R P O R A T I O N

Excellence for Generations

AN EMPLOYEE OWNED COMPANY

SEWER PRESSURE TEST MAN HOLE Vacuum

PROJECT: Hampton Businesspark

Date: 12-09-15

From: SMH 30 To: _____

Pressure at start of test: 10

Pressure at end of test: 9.5

Change: .5

Time at start of test: 8:17 am

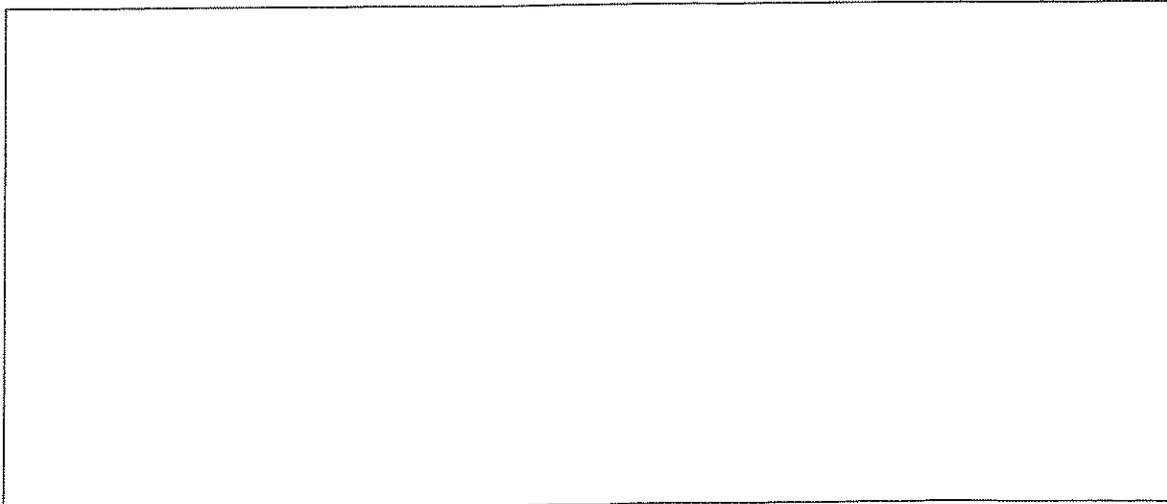
Time at finish of test: 8:19 am

Duration: 2min

Test Performed By: Jacob Stevens

Test Witnessed By: Josh Crofton

Location Sketch



SARGENT

C O R P O R A T I O N

Excellence for Generations

AN EMPLOYEE OWNED COMPANY

SEWER PRESSURE TEST

MANHOLE *Valuum*

PROJECT: *Hamden Business park*

Date: *12-08-15*

From: *SMH 31* To: _____

Pressure at start of test: 10

Pressure at end of test: 10

Change: 0

Time at start of test: 3:30 pm

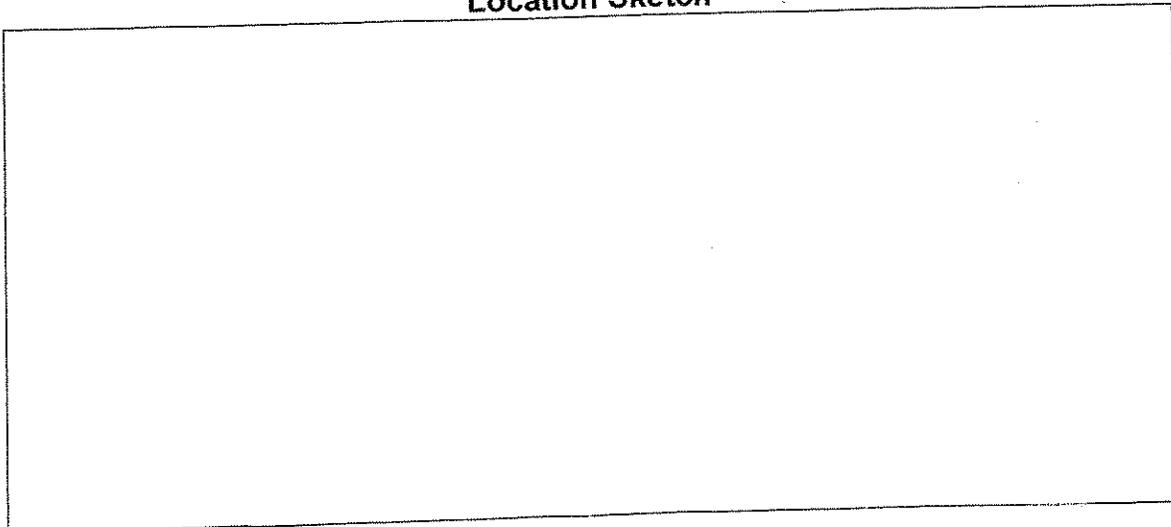
Time at finish of test: 3:32 pm

Duration: 2 min

Test Performed By: Jacob Stevens

Test Witnessed By: Josh Crofton

Location Sketch



SARGENT

C O R P O R A T I O N

Excellence for Generations.

AN UNLIMITED COMPANY

~~SEWER PRESSURE TEST~~ MANHOLE Vacuum Test

PROJECT: Hamilton business park

Date: 12-08-15

From: SMH 32 To: _____

Pressure at start of test: 10

Pressure at end of test: 9.75

Change: .25

Time at start of test: 3:00 PM

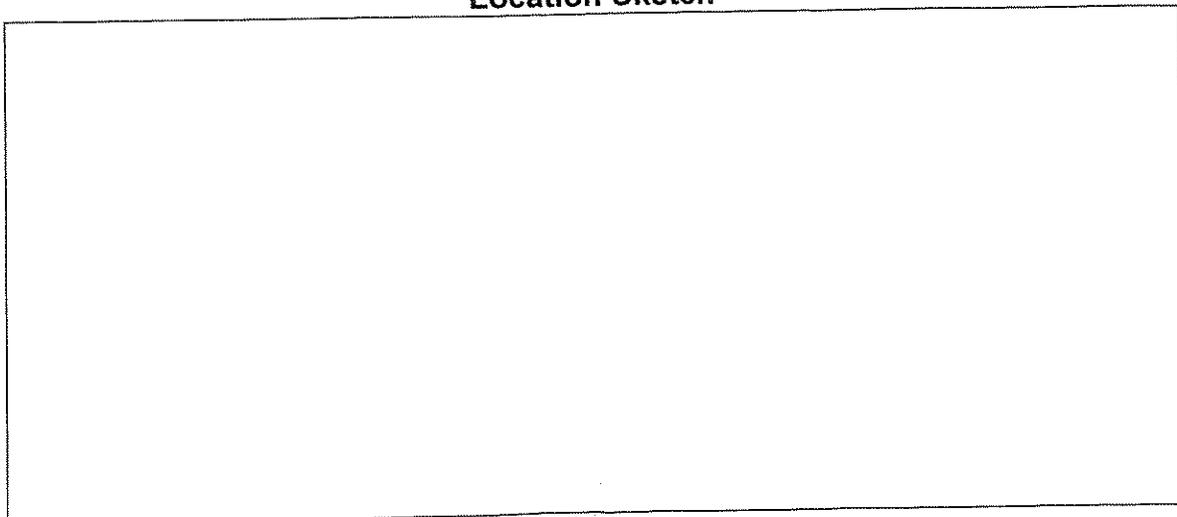
Time at finish of test: 3:02 PM

Duration: 2 min

Test Performed By: Jacob Stevens

Test Witnessed By: Josh Crofton

Location Sketch



SARGENT

C O R P O R A T I O N

Excellence for Generations.

MANHOLE VACUUM TEST

PROJECT: Hampton Business Park

Date: 12-08-15

Structure #: 33 Diameter of Structure: 4'

Vacuum at start of test: 10

Vacuum at end of test: 9.75

Change: .25

Time at start of test: 2:16 PM

Time at finish of test: 2:18:30 PM

Duration: 2 1/2 m.

Test Performed By: Jacob Stevens

Test Witnessed By: Josh Crifen

SARGENT

CORPORATION

Excellence for Generations.

MANHOLE VACUUM TEST

PROJECT: Hampton Business Park

Date: 12/8/15

Structure #: 34 Diameter of Structure: 4'

Vacuum at start of test: 10

Vacuum at end of test: 9.25

Change: .75

Time at start of test: 1:19 pm

Time at finish of test: 1:21:30 pm

Duration: 2 1/2 min

Test Performed By: Jacob Stevens

Test Witnessed By: Josh Crofton

SARGENT

C O R P O R A T I O N

Excellence for Generations.

MANHOLE VACUUM TEST

PROJECT: Hampton Business Park

Date: 12/8/15

Structure #: 35 Diameter of Structure: 4'

Vacuum at start of test: 10

Vacuum at end of test: 9.5

Change: .5

Time at start of test: 11:50 am

Time at finish of test: 11:52 am

Duration: 2 min

Test Performed By: Jacob Stevens

Test Witnessed By: Josh Crafton



Sean Currier <publicworks@hampdenmaine.gov>

RE: Construction Site Inspection Form

1 message

Joshua Crofton-MacDonald <jcroftonmac@woodardcurran.com>

Thu, Jun 9, 2016 at 7:31 PM

To: Sean Currier <publicworks@hampdenmaine.gov>

Hi Sean,

I just wanted to confirm that I did inspect both of the outstanding items.

1. For the wye connection it was an easy excavation and realignment.
2. The failed deflection test was more involved. The sewer run had sagged due to the weight of the saturated soil above it. Sargent excavated down to the pipe and removed the bad piece of pipe. They were careful to not disturb the soil below the pipe. After laying a new piece of pipe Sargent backfilled with a few additional inches of crushed stone top help facilitate drainage and help alleviate the weight of the soil above. They then pulled the ASTM standard mandrel to re-test the deflection and the new pipe passed.

Feel free to email or call with any additional questions.

Best, Josh

From: Joshua Crofton-MacDonald
Sent: Thursday, June 09, 2016 2:36 PM
To: Sean Currier <publicworks@hampdenmaine.gov>
Subject: RE: Construction Site Inspection Form

Hi Sean,

Yes! Both of the issues have been fixed and I witnessed the deflection test. The issues were corrected and the test happened on June 7th. Sorry for the late update.

So all the sewer and water main has been installed and tested. Sargent is on site installing the road now. I have collected the compaction testing results during the road installation. Would you like me to send those to you?

Best, Josh

Sent from my Verizon, Samsung Galaxy smartphone

----- Original message -----

From: Sean Currier <publicworks@hampdenmaine.gov>

Date: 6/9/16 2:28 PM (GMT-05:00)

To: Joshua Crofton-MacDonald <jcroftonmac@woodardcurran.com>

Subject: Fwd: Construction Site Inspection Form

Josh, did you inspect the correction of the 2 outstanding items for the business park? deflection problem and wye connection removal?

thanks,

Sean

Sean Currier

Public Works Director

Town of Hampden

106 Western Avenue

Hampden, ME 04444

(207)862-3337

----- Forwarded message -----

From: **Sean Currier** <publicworks@hampdenmaine.gov>
Date: Thu, Jun 2, 2016 at 1:18 PM
Subject: Fwd: Construction Site Inspection Form
To: Sean Currier <publicworks@hampdenmaine.gov>

On Fri, May 27, 2016 at 9:36 AM, Joshua Crofton-MacDonald <jcroftonmac@woodardcurran.com> wrote:

Hi Sean,

Here's an update on the testing at the Business Park:

- All manholes have been vacuum tested. This test was not performed according to the towns sewer ordinance because the manholes were backfilled prior to testing. However, all the backfilled manholes were held at a vacuum of 10 inches of mercury for the specified amount of time and passed without a pressure drop.
- All sewer pressure testing has been completed. All sewer runs were pressurized to 4 psi and held for the specified amount of time without a pressure drop
- All sewer runs have been deflection tested using an ASTM standard diameter mandrel. This is not in accordance with Hampden's sewer ordinance. If you have more questions on this, feel free to give me a call or email.

Sargent is currently excavating a section of sewer run that failed the mandrel test. This one section is located in the cross-country run. Once they realign the pipe they will retest with the mandrel.

Thanks, Josh