

**Application of Pennsylvania-American Water Company for the Acquisition  
of the Wastewater Collection and Treatment System Owned by the York City Sewer  
Authority (the “Authority”) and Operated by the City of York (the “City”)  
(collectively “York”)**

**66 Pa. C.S. § 1329  
Application Filing Checklist – Water/Wastewater  
Docket No. A-2021-3024681**

16. Map of Service Area. Provide a scalable map or plan of suitable scale highlighting the boundaries of the proposed service area that includes:
- a. The extent of the proposed service area with any existing adjoining service areas identified.
  - b. A north arrow depicting map orientation.
  - c. A written description of the boundaries for the service territory utilizing bearing angles and distances.
  - d. Size of the service territory area in terms of acres or square miles.
  - e. Identification and depiction of all municipal boundaries relative to the service area.
  - f. Depiction of the location or route of the waterworks or wastewater collection, treatment or disposal facilities.

**RESPONSE:** For subparts a. through e., see enclosed maps and descriptions attached as **Appendix A-16-a through e.**

**Appendix A-16-f** is a map that has been marked **CONFIDENTIAL**.

The service territory map encompasses the municipal boundaries of The City of York. In addition, the service territory encompasses three parcels where the wastewater treatment plant is in Manchester Township (see **Appendix A-16-c**, page 6 of 6 for bearings and distances).

**Administering the Industrial Pretreatment Program (IPP)**

See enclosed maps and descriptions attached **Appendix A-16-a through e - IPP**. Bearings and distances of this area are attached as **Appendix A-16-c – IPP**.

The following descriptions apply to the bulk interconnection points:

**Bulk Sewer Service Connections Outside the Wastewater System  
Certificated Territory**

**Application of Pennsylvania-American Water Company for the Acquisition of the Wastewater Collection and Treatment System Owned by the York City Sewer Authority (the “Authority”) and Operated by the City of York (the “City”) (collectively “York”)**

**66 Pa. C.S. § 1329**

**Application Filing Checklist – Water/Wastewater  
Docket No. A-2021-3024681**

**North York Borough Bulk Interconnection.** The interconnection receives bulk sewage from North York Borough through a metered single sewer collection line at a manhole location within Manchester Township approximately 400 feet east of Toronita Street and approximately 300 feet north of the North York Borough and Manchester Township municipal boundary lines.

**Manchester Township Bulk Interconnection (1 of 3).** The interconnection receives bulk sewage from a portion of Manchester Township through a metered single sewer collection line at a manhole location within Manchester Township approximately 400 feet east of Toronita Street and approximately 300 feet north of the North York Borough and Manchester Township municipal boundary lines.

**York Township Bulk Interconnection.** The interconnection receives bulk sewage from York Township through a metered single sewer collection line at a manhole located within Spring Garden Township on the York College property approximately 500 feet west of S. George Street (The City of York and Spring Garden Township municipal line) and 450 north of Country Club Road in Spring Garden Township.

**Bulk Sewer Service Connections at or within the Wastewater System  
Certificated Territory**

**Manchester Township Bulk Interconnection (2 of 3).** The interconnection receives bulk sewage from a portion of Manchester Township through a metered single sewer collection line at a manhole located within the wastewater treatment plant property.

**Manchester Township Bulk Interconnection (3 of 3).** The interconnection receives bulk sewage from a portion of Manchester Township through a metered single sewer collection line at a manhole located approximately 100 feet west of Clugston Road and approximately 250 feet east of The York City and Manchester Township Municipal line within The City of York.

**Spring Garden Township Bulk Interconnection (1 of 4).** The interconnection receives bulk sewage from a portion of Spring Garden Township through a metered single sewer collection line at a manhole within W. Springettsbury Avenue approximately 350 feet west of Jessop Place at The City of York and Spring Garden Township municipal line.

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**66 Pa. C.S. § 1329**

**Application Filing Checklist – Water/Wastewater  
Docket No. A-2021-3024681**

**Spring Garden Township Bulk Interconnection (2 of 4).** The interconnection receives bulk sewage from a portion of Spring Garden Township through a metered single sewer collection line at a manhole located within Veterans Memorial Park approximately 300 feet southeast of Rockdale Avenue and approximately 200 feet within The City of York.

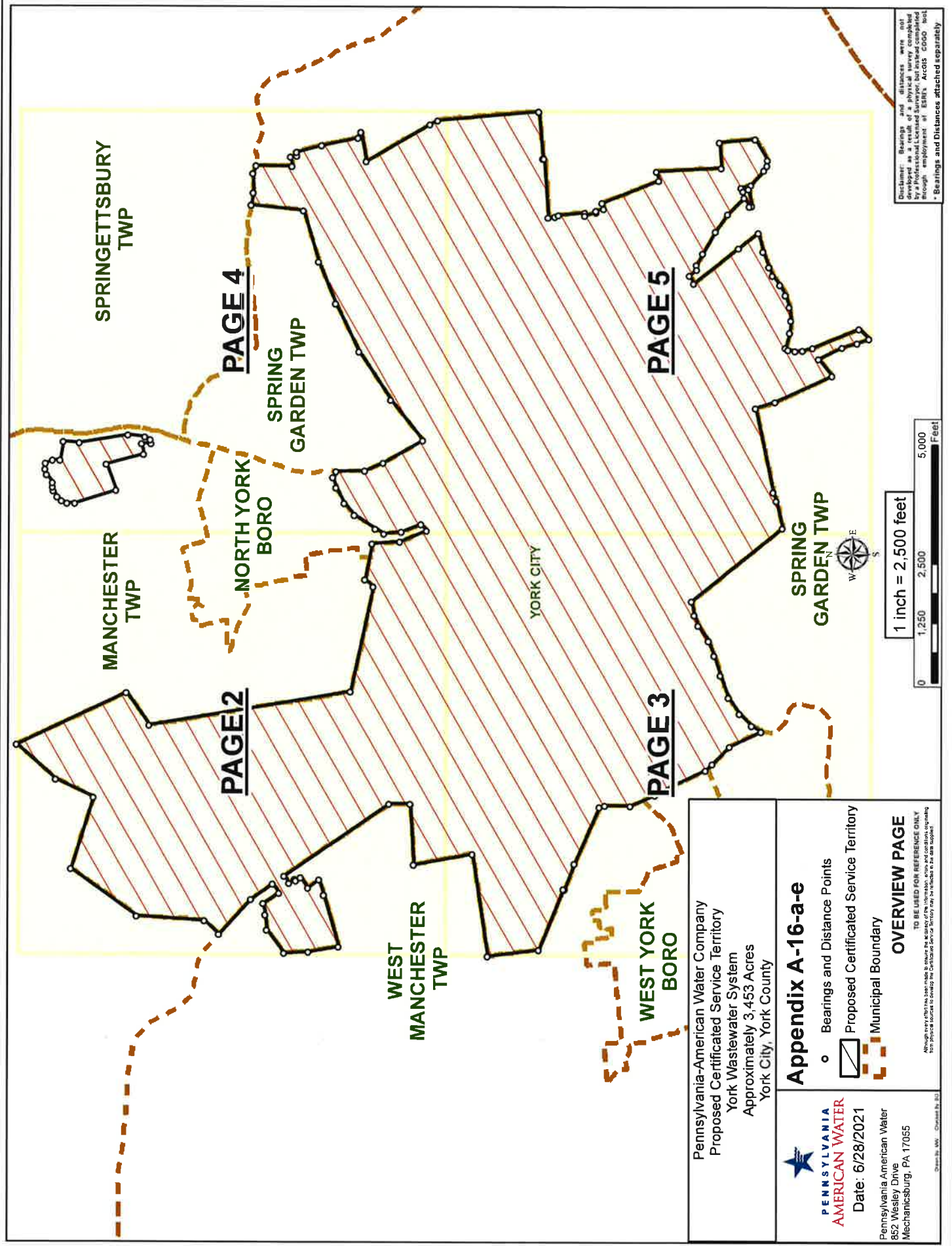
**Spring Garden Township Bulk Interconnection (3 of 4).** The interconnection receives bulk sewage from a portion of Spring Garden Township through a metered single sewer collection line at a manhole located at the intersection of Norway Street and Sunbeam Alley at The City of York and Spring Garden Township municipal line.

**Spring Garden Township Bulk Interconnection (4 of 4).** The interconnection receives bulk sewage from a portion of Spring Garden Township through a metered single sewer collection line at a manhole located within S. Richland Avenue approximately 50 feet north of Zinns Quarry Road at The City of York municipal line and approximately 400 feet north of the Spring Garden Township municipal line.

**West York Borough Bulk Interconnection.** The interconnection receives bulk sewage from West York Borough through a metered single sewer collection line at a manhole located in West Poplar Street approximately 180 west of Rusk Avenue at The City of York and West York Borough municipal line.

**West Manchester Township Bulk Interconnection (1 of 2).** The interconnection receives bulk sewage from a portion of West Manchester Township through a metered single sewer collection line at a manhole located approximately 300 feet west of the intersection of Roosevelt Avenue and Wood Street at The City of York and West Manchester municipal line.

**West Manchester Township Bulk Interconnection (2 of 2).** The interconnection receives bulk sewage from a portion of West Manchester Township through a metered single sewer collection line at a manhole located within South Richland Avenue approximately 50 south of Codorus Street within the City of York.



Disclaimer: Bearings and distances were not developed as a result of a physical survey completed through employment of ERM's ArcGIS COGO tool. Bearings and Distances attached separately.

Pennsylvania-American Water Company  
 Proposed Certified Service Territory  
 York Wastewater System  
 Approximately 3,453 Acres  
 York City, York County

**Appendix A-16-a-e**

- Bearings and Distance Points
- ▭ Proposed Certified Service Territory
- ▭ Municipal Boundary

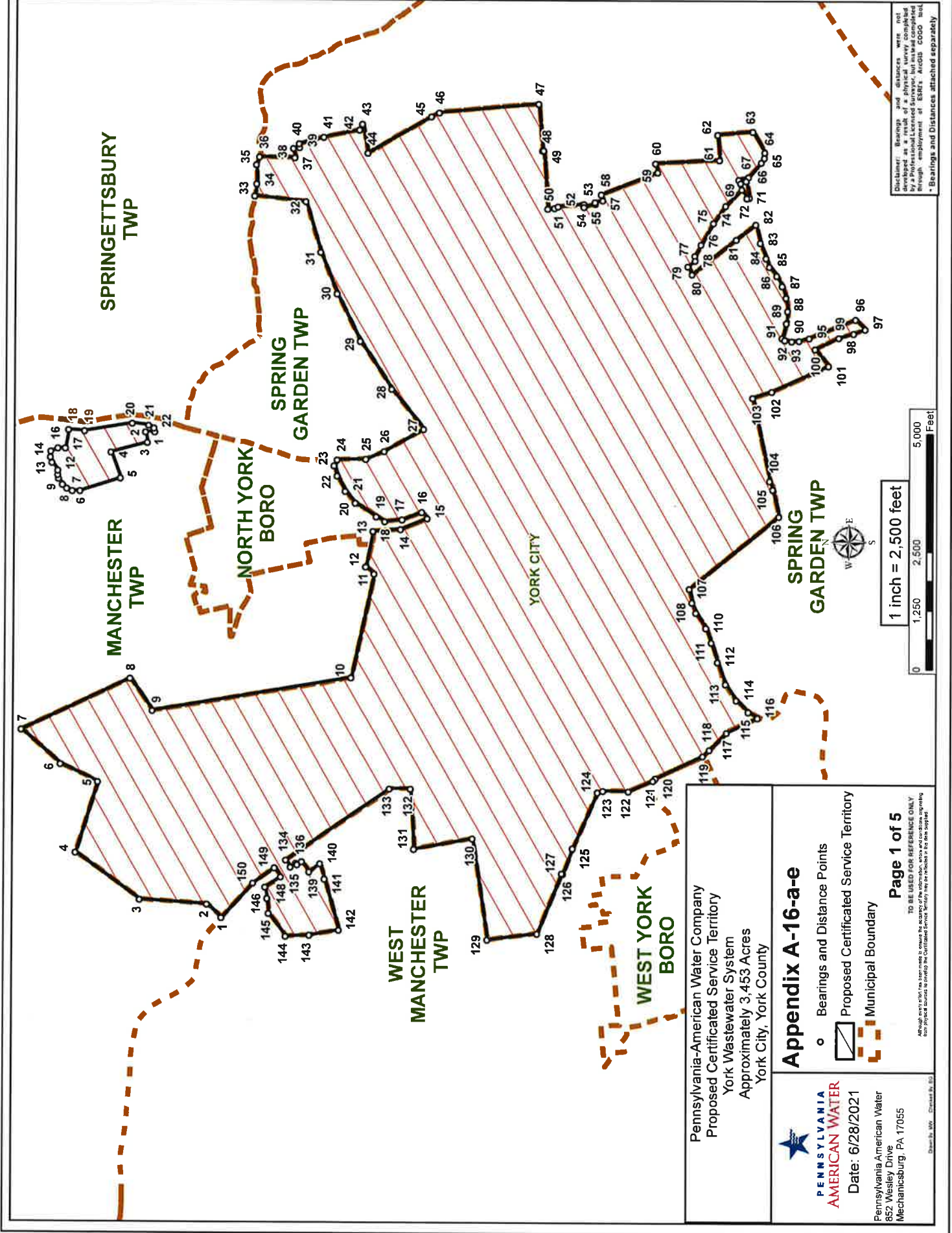
**OVERVIEW PAGE**

TO BE USED FOR REFERENCE ONLY  
 Although every effort has been made to ensure the accuracy of the information, errors and omissions do occur. The physical location to develop the Certified Service Territory may vary from that shown in the data supplied.

**PENNSYLVANIA AMERICAN WATER**  
 Date: 6/28/2021  
 Pennsylvania American Water  
 882 Wesley Drive  
 Mechanicsburg, PA 17055

Drawn by: MW Checked by: BJJ





Disclaimer: Bearings and distances were not developed as a result of a physical survey completed through employment of ESR's. AUG03 C000 BAK  
 \* Bearings and Distances attached separately



Pennsylvania-American Water Company  
 Proposed Certified Service Territory  
 York Wastewater System  
 Approximately 3,453 Acres  
 York City, York County

**Appendix A-16-a-e**

- Bearings and Distance Points
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- ▭ Municipal Boundary

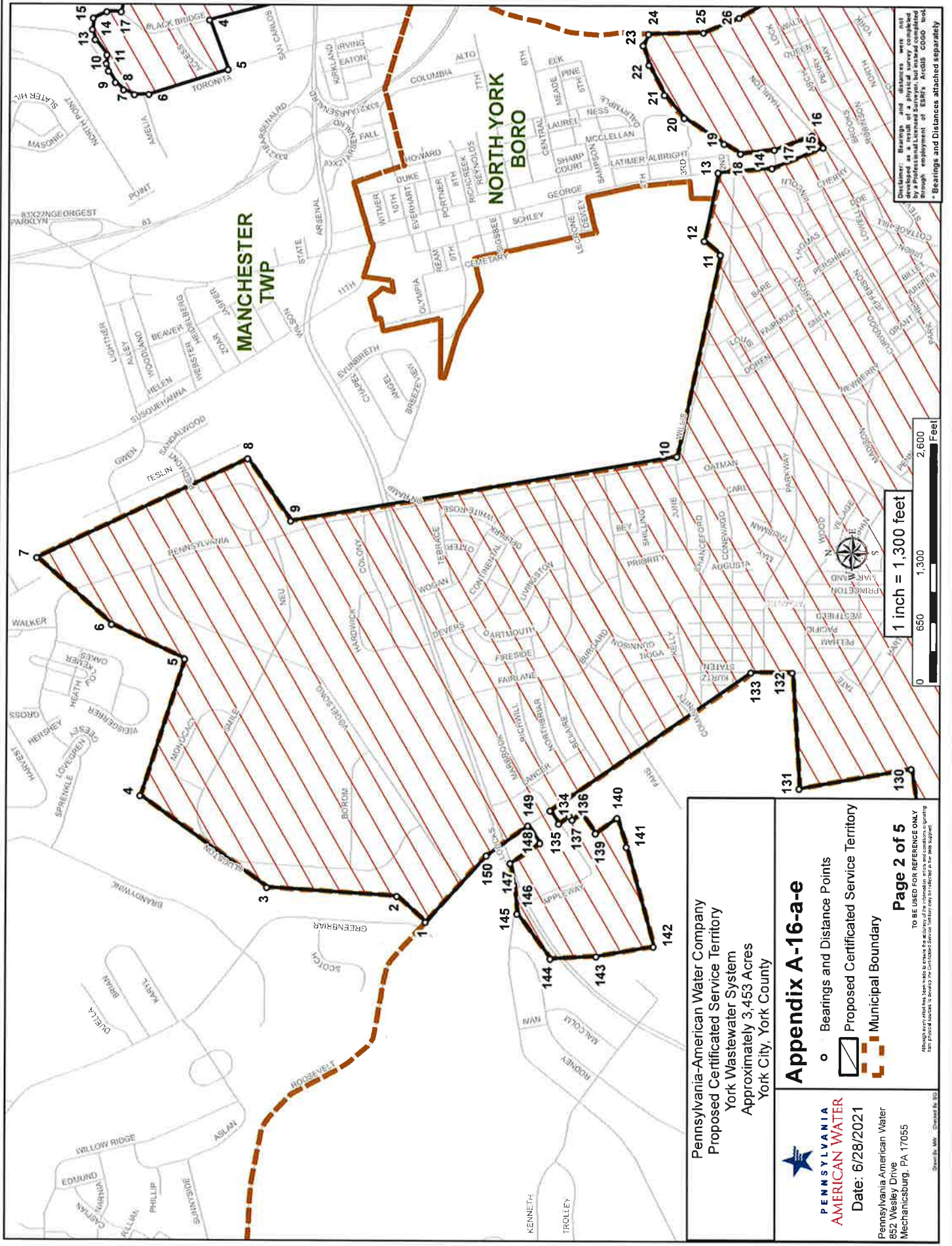
**Page 1 of 5**

TO BE USED FOR REFERENCE ONLY  
 Although every effort has been made to ensure the accuracy of the information, which was obtained exclusively from physical records to provide the Certified Service Territory, no liability is assumed by the user.

**PENNSYLVANIA AMERICAN WATER**  
 Date: 6/28/2021  
 Pennsylvania American Water  
 852 Wesley Drive  
 Mechanicsburg, PA 17055

Drawn by: MW Checked by: BSJ





Disclaimer: Bearings and distances were not prepared as a result of a physical survey completed through employment of ES&S's ArcGIS COGO tool. \* Bearings and Distances attached separately.



Pennsylvania-American Water Company  
 Proposed Certified Service Territory  
 York Wastewater System  
 Approximately 3,453 Acres  
 York City, York County

**Appendix A-16-a-e**

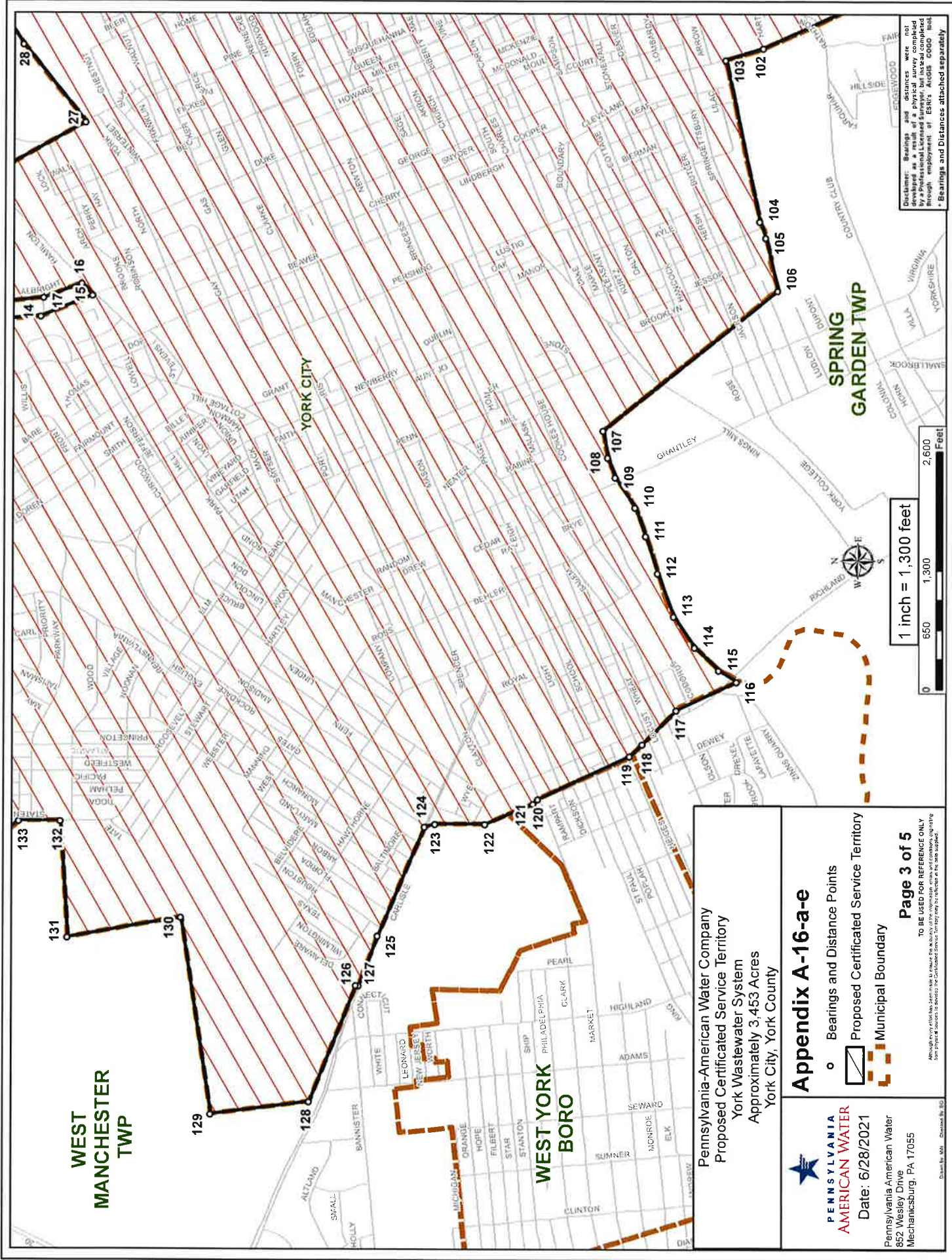
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 Although every effort has been made to ensure the accuracy of the information, errors and omissions do occur. No financial reliance should be placed on this information without independent verification.

**PENNSYLVANIA AMERICAN WATER**  
 Date: 6/28/2021  
 Pennsylvania American Water  
 852 Wesley Drive  
 Mechanicsburg, PA 17055





Disclaimer: Bearings and distances were not developed as a result of a physical survey completed through employment of ES&S's ArcGIS COGO tool. \* Bearings and Distances attached separately.



Pennsylvania-American Water Company  
 Proposed Certified Service Territory  
 York Wastewater System  
 Approximately 3,453 Acres  
 York City, York County

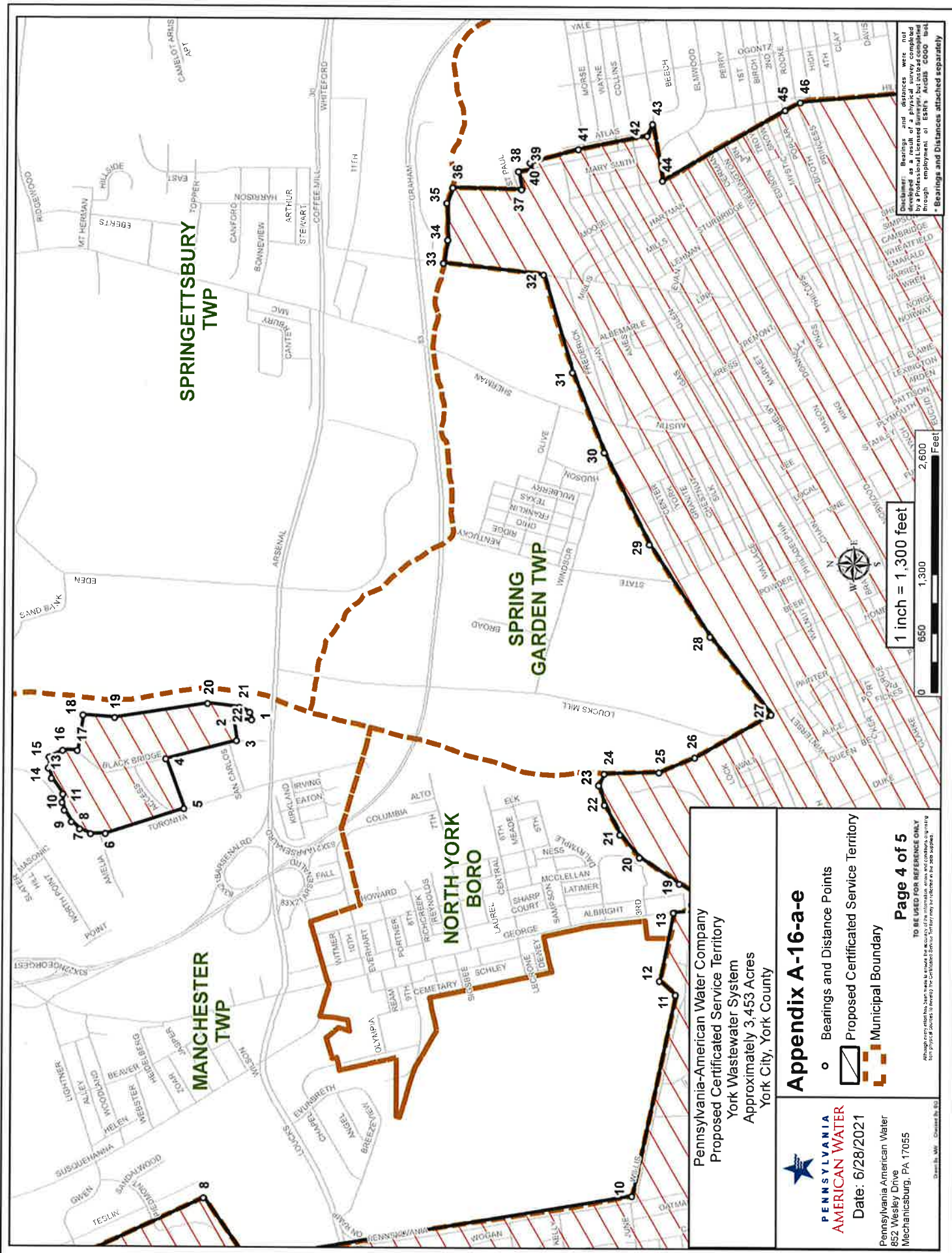
**Appendix A-16-a-e**

- Bearings and Distance Points
- ▭ Proposed Certified Service Territory
- ▭ Municipal Boundary

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 TO BE USED FOR REFERENCE ONLY  
 Although every effort has been made to ensure the accuracy of the information, errors and omissions do occur. The user assumes all responsibility for the use of this information.

**PENNSYLVANIA AMERICAN WATER**  
 Date: 6/28/2021  
 Pennsylvania American Water  
 852 Wesley Drive  
 Mechanicsburg, PA 17055





Disclaimer: Bearings and distances were not developed as a result of a physical survey completed by the Engineer. The bearings and distances were developed through employment of GPS technology.

Bearings and Distances attached separately



Pennsylvania-American Water Company  
 Proposed Certified Service Territory  
 York Wastewater System  
 Approximately 3,453 Acres  
 York City, York County

### Appendix A-16-a-e

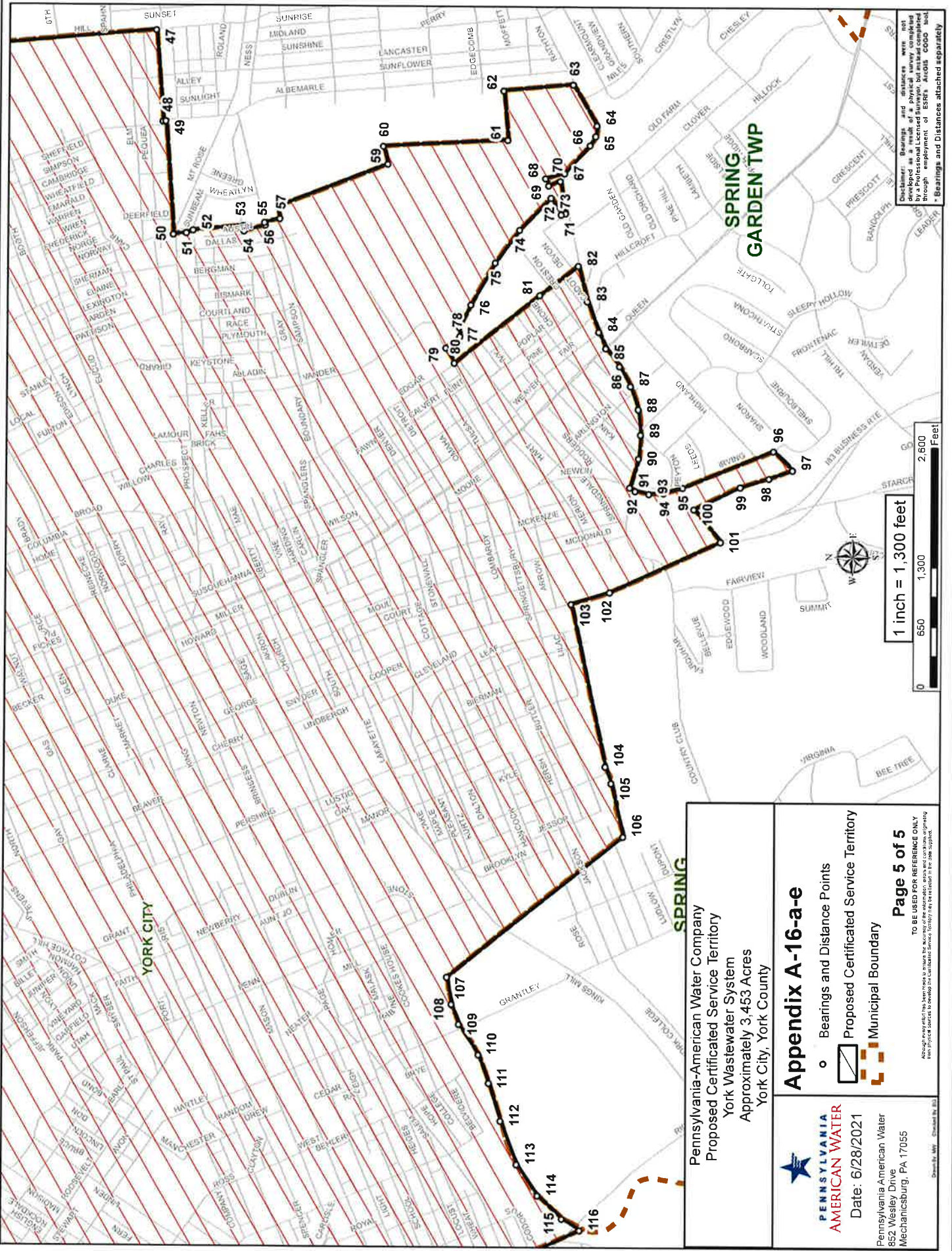
- Bearings and Distance Points
- ▭ Proposed Certified Service Territory
- ▨ Municipal Boundary

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TO BE USED FOR REFERENCE ONLY  
 Although every effort has been made to ensure the accuracy of the information on this construction drawing, the Engineer does not warrant the accuracy of the information. The Engineer's responsibility is limited to the design of the wastewater system.

**PENNSYLVANIA AMERICAN WATER**  
 Date: 6/28/2021  
 Pennsylvania American Water  
 852 Wesley Drive  
 Mechanicsburg, PA 17055





Disclaimer: Bearings and distances were not developed as a result of a physical survey, completed solely for informational purposes. The information is provided through the use of GIS software and is not guaranteed to be 100% accurate. Bearings and Distances attached separately.



Pennsylvania-American Water Company  
 Proposed Certified Service Territory  
 York Wastewater System  
 Approximately 3,453 Acres  
 York City, York County

**Appendix A-16-a-e**

- Bearings and Distance Points
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**Page 5 of 5**  
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Date: 6/28/2021  
 Pennsylvania American Water  
 852 Wesley Drive  
 Mechanicsburg, PA 17055

## Appendix A-16-c

<b>Starting Point: At the southwest corner where the municipal boundaries of West Manchester Township, Manchester Township and York City meet.</b>			
From	To	Bearing	Distance (ft)
1	2	N42°05'42"E	420.52
2	3	N3°38'29"E	1,429.70
3	4	N35°36'57"E	1,710.10
4	5	S72°11'53"E	1,572.03
5	6	N24°55'56"E	888.81
6	7	N41°24'58"E	1,104.88
7	8	S25°13'40"E	2,557.77
8	9	S55°11'55"W	830.50
9	10	S9°37'33"E	4,311.56
10	11	S77°44'55"E	2,259.90
11	12	N40°35'32"E	233.23
12	13	S78°35'31"E	766.49
13	14	S4°25'50"E	593.25
14	15	S22°14'41"E	609.50
15	16	N47°42'32"E	177.91
16	17	N20°51'56"W	445.10
17	18	N6°07'21"W	376.48
18	19	N30°09'07"E	208.31
19	20	N32°44'31"E	528.02
20	21	N49°29'24"E	330.00
21	22	N62°04'06"E	370.46
22	23	N72°32'31"E	225.95
23	24	S63°44'06"E	140.85
24	25	S1°33'21"E	607.86
25	26	S22°58'13"E	424.77
26	27	S29°17'59"E	971.29
27	28	N51°24'46"E	1,092.65
28	29	N56°17'04"E	1,216.79
29	30	N63°35'18"E	1,129.57
30	31	N67°57'54"E	946.62
31	32	N73°12'08"E	1,125.69
32	33	N6°10'49"E	1,110.90
33	34	S79°41'39"E	259.95
34	35	N88°32'46"E	408.49
35	36	S69°13'09"E	178.17
36	37	S0°59'56"W	760.08
37	38	N79°48'45"E	202.24
38	39	S7°03'41"E	140.14
39	40	N80°39'33"E	78.60
40	41	S15°27'36"E	556.49
41	42	S11°23'02"E	778.79
42	43	S64°53'25"E	144.32



## Appendix A-16-c

43	44	S79°45'25"W	632.98
44	45	S29°55'24"E	1,570.13
45	46	S27°45'06"E	187.78
46	47	S5°08'11"E	2,154.13
47	48	S85°37'04"W	1,000.60
48	49	S3°36'55"E	32.91
49	50	S85°50'17"W	1,243.26
50	51	S7°17'06"E	142.11
51	52	S22°04'01"E	80.96
52	53	S5°15'39"E	555.75
53	54	S83°55'03"W	57.91
54	55	S14°54'32"E	244.04
55	56	N74°51'09"E	33.95
56	57	S13°50'37"E	173.35
57	58	N75°51'01"E	136.11
58	59	S21°10'51"E	1,297.71
59	60	N75°46'44"E	203.22
60	61	S3°01'52"E	1,379.62
61	62	N85°04'26"E	543.14
62	63	S5°10'31"E	766.32
63	64	S59°55'00"W	516.35
64	65	N83°46'17"W	116.84
65	66	N57°32'32"W	118.31
66	67	N47°59'44"W	410.97
67	68	N15°53'35"W	216.03
68	69	S66°05'47"W	86.19
69	70	S21°59'12"E	133.15
70	71	S80°11'24"W	355.37
71	72	N15°44'40"W	46.46
72	73	N58°04'56"E	213.89
73	74	N45°38'00"W	491.37
74	75	N53°32'33"W	447.48
75	76	N59°50'40"W	530.50
76	77	N61°55'56"W	280.03
77	78	S84°25'35"W	102.26
78	79	N37°50'02"W	200.44
79	80	S59°49'37"W	190.63
80	81	S38°14'08"E	1,199.82
81	82	S37°39'41"E	529.48
82	83	S75°28'32"W	401.25
83	84	S69°10'17"W	353.58
84	85	S66°46'01"W	196.19
85	86	S51°50'51"W	247.28
86	87	S60°58'05"W	247.59
87	88	S71°12'29"W	263.91
88	89	S83°54'54"W	279.73
89	90	N84°49'48"W	262.64

## Appendix A-16-c

90	91	N73°27'53"W	330.90
91	92	S31°48'08"W	72.43
92	93	S11°12'30"W	151.86
93	94	S2°33'43"E	162.99
94	95	S16°53'18"E	220.55
95	96	S21°52'06"E	1,073.68
96	97	S44°57'31"W	292.84
97	98	N19°58'59"W	269.99
98	99	N16°50'39"W	327.11
99	100	N25°17'37"W	567.70
100	101	S50°15'10"W	460.82
101	102	N24°33'32"W	1,336.69
102	103	N17°05'48"W	438.16
103	104	S77°53'10"W	1,810.18
104	105	S70°06'51"W	192.25
105	106	S77°03'23"W	595.63
106	107	N38°34'23"W	2,461.89
107	108	S79°33'00"W	297.42
108	109	S69°04'58"W	231.79
109	110	S56°16'22"W	395.71
110	111	S69°20'37"W	331.83
111	112	S72°10'03"W	429.27
112	113	S69°44'51"W	503.62
113	114	S55°26'11"W	410.85
114	115	S43°32'10"W	364.41
115	116	S33°20'14"W	233.45
116	117	N25°12'35"W	731.97
117	118	N44°56'40"W	524.06
118	119	N43°24'06"W	190.27
119	120	N24°54'39"W	1,120.80
120	121	N45°31'54"W	71.06
121	122	N23°08'13"W	571.32
122	123	N0°20'03"E	547.44
123	124	N15°47'56"W	118.20
124	125	N66°22'01"W	1,300.33
125	126	N69°00'47"W	581.11
126	127	N13°14'54"E	30.27
127	128	N67°48'02"W	1,370.94
128	129	N7°24'56"W	1,083.53
129	130	N81°21'35"E	2,170.93
130	131	N10°10'48"W	1,262.97
131	132	N86°29'29"E	1,272.12
132	133	N0°09'30"W	451.97
133	134	N34°25'45"W	2,676.64
134	135	S56°04'41"W	177.04
135	136	S35°59'46"E	142.45
136	137	S54°49'23"W	49.55



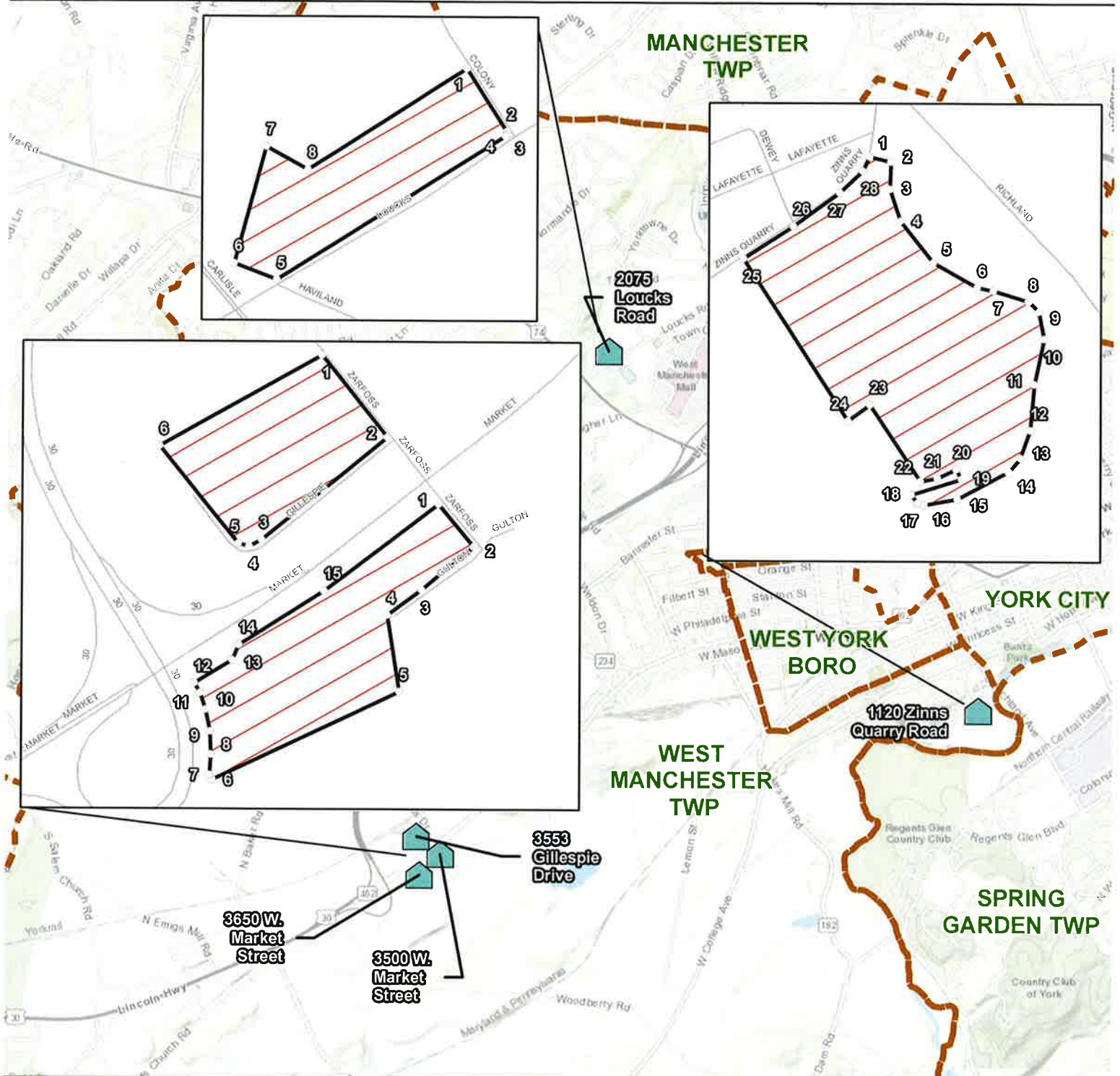
## Appendix A-16-c

137	138	S35°31'36"E	125.27
138	139	S54°21'26"W	265.82
139	140	S35°40'22"E	288.26
140	141	S72°01'05"W	334.51
141	142	S74°29'55"W	1,128.69
142	143	N9°31'01"W	639.09
143	144	N3°11'43"W	504.48
144	145	N52°59'52"E	610.81
145	146	N83°44'14"E	314.50
146	147	N80°07'28"E	243.35
147	148	S34°16'02"E	395.87
148	149	N54°43'01"E	230.28
149	150	N35°28'42"W	563.08
150	1	N47°26'15"W	990.55

## Appendix A-16-c





<b>Starting Point: At a point approximately 280 feet southeast from the intersection of San Carlos Road and Black Bridge Road, said point being point "1".</b>			
<b>From</b>	<b>To</b>	<b>Bearing</b>	<b>Distance (ft)</b>
1	2	N0°53'18"E	199.18
2	3	S80°30'24"W	234.01
3	4	N14°45'17"W	809.43
4	5	S69°32'45"W	583.03
5	6	N17°42'42"W	910.52
6	7	N1°22'43"W	158.57
7	8	N22°55'15"E	132.83
8	9	N41°57'34"E	121.10
9	10	N57°50'07"E	148.69
10	11	N73°41'19"E	87.16
11	12	S86°24'44"E	92.38
12	13	N53°47'52"E	212.86
13	14	N73°43'48"E	116.78
14	15	S86°12'30"E	125.43
15	16	S25°42'23"E	162.64
16	17	S0°12'22"W	162.09
17	18	S81°09'40"E	396.01
18	19	S4°31'51"W	345.31
19	20	S9°04'25"E	1,040.14
20	21	S6°22'28"W	353.63
21	22	S26°07'48"W	126.61
22	1	S76°54'49"W	87.78





**Pennsylvania-American Water Company  
Proposed Certificated Service Territory  
West Manchester Township  
Approximately 64 Acres  
West Manchester Township, York County, PA**

**Appendix A-16 - a through e - IPP**

-  West Manchester IPP Customers
-  Bearings and Distance Points
-  Municipal Boundary
-  Proposed Certificated Service Territory

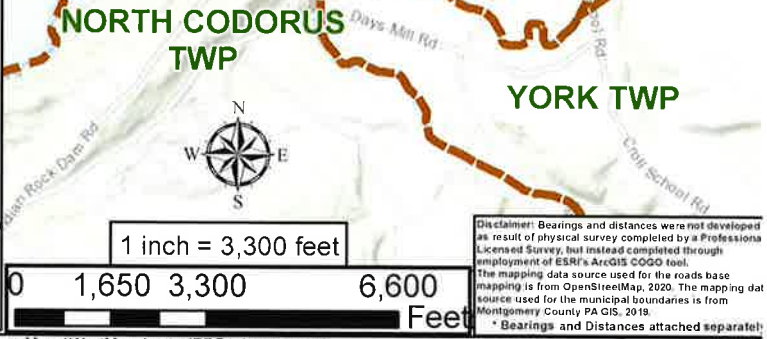


Date: 6/25/2021

Pennsylvania American Water  
852 Wesley Drive  
Mechanicsburg, PA 17055

TO BE USED FOR REFERENCE ONLY

Although every effort has been made to ensure the accuracy of the information, errors and conditions originating from physical sources in the original Certified Service Territory may be reflected in the data supplied.



Disclaimer: Bearings and distances were not developed as a result of physical survey completed by a Professional Licensed Surveyor, but instead completed through employment of ESRI's ArcGIS COGO tool. The mapping data source used for the roads base mapping is from OpenStreetMap, 2020. The mapping data source used for the municipal boundaries is from Montgomery County PA GIS, 2018. \* Bearings and Distances attached separately!

<b>3553 Gillespie Drive</b>			
<b>PIN: 51000IG0052B0 &amp; 51000IG0052Q0</b>			
<b>From</b>	<b>To</b>	<b>Bearing</b>	<b>Distance(Ft)</b>
1	2	S38°45'22"E	530.141566
2	3	S50°42'21"W	817.568569
3	4	S63°01'31"W	70.410215
4	5	N76°46'39"W	55.470581
5	6	N39°17'39"W	631.98947
6	1	N60°34'24"E	938.983012

<b>2075 Loucks Road</b>			
<b>PIN: 51000JH0056H0 &amp; 51000JH0056E0</b>			
<b>From</b>	<b>To</b>	<b>Bearing</b>	<b>Distance(Ft)</b>
1	2	S32°14'12"E	390.921185
2	3	S7°58'17"E	14.90502
3	4	S39°30'10"W	14.945355
4	5	S57°45'37"W	1414.716208
5	6	N68°44'09"W	237.948773
6	7	N15°06'17"E	634.447711
7	8	S60°34'19"E	247.521048
8	1	N57°25'15"E	992.529391



<b>1120 Zinns Quarry Road</b>			
<b>PIN: 51000170212A0</b>			
<b>From</b>	<b>To</b>	<b>Bearing</b>	<b>Distance(Ft)</b>
1	2	S76°08'57"E	83.313606
2	3	S1°41'44"W	104.969962
3	4	S19°01'00"E	127.074136
4	5	S38°21'10"E	202.363883
5	6	S61°02'24"E	194.771584
6	7	S78°22'41"E	61.974598
7	8	S73°03'03"E	139.862071
8	9	S46°47'26"E	55.149438
9	10	S12°13'31"E	106.584093
10	11	S12°15'11"W	175.881553
11	12	S5°20'54"W	176.334664
12	13	S20°02'56"W	111.576535
13	14	S39°59'14"W	70.242538
14	15	S61°49'17"W	220.588379
15	16	S80°02'11"W	130.440299
16	17	N73°20'21"W	26.842896
17	18	N37°14'05"W	40.009411
18	19	N72°49'04"E	202.718202
19	20	N29°56'13"W	42.70143
20	21	S64°50'09"W	78.593101
21	22	S79°32'41"W	66.805176
22	23	N33°42'51"W	348.284913
23	24	S54°19'09"W	104.4987
24	25	N33°09'00"W	735.924328
25	26	N56°59'02"E	227.863784
26	27	N54°19'30"E	218.390145
27	28	N46°15'23"E	121.363139
28	1	N25°49'24"E	60.847165

<b>3500 &amp; 3650 W. Market Street</b>			
<b>PINS: 51000IG0052F0 &amp; 51000IG0052J0</b>			
<b>From</b>	<b>To</b>	<b>Bearing</b>	<b>Distance(Ft)</b>
1	2	S39°43'22"E	278.853514
2	3	S50°29'20"W	343.080803
3	4	S53°50'08"W	215.401717
4	5	S9°21'47"E	391.03558
5	6	S64°43'53"W	1040.314047
6	7	N29°36'04"W	25.036651
7	8	N3°38'19"E	103.419881
8	9	N2°05'10"W	116.345907
9	10	N12°27'46"W	113.317936
10	11	N17°38'37"W	88.416119
11	12	N33°16'59"W	56.576457
12	13	N58°30'48"E	223.693102
13	14	N22°46'22"E	84.767925
14	15	N57°25'50"E	506.694222
15	1	N52°52'21"E	726.575175

**MANCHESTER TWP**

2650  
Blackbridge  
Road

2651  
Blackbridge  
Road

2100 N.  
George  
Street





1750  
Toronita  
Street

**SPRINGGETTSBURY TWP**

**SPRING GARDEN TWP**

**Pennsylvania-American Water Company  
Proposed Certificated Service Territory  
Manchester Township  
Approximately 186.78 Acres  
Manchester Township, York County, PA**

**Appendix A-16 - a though e - IPP**

-  Manchester Twp IPP Customers
-  Bearings and Distance Points
-  Municipal Boundary
-  Proposed Certificated Service Territory



Date: 6/25/2021

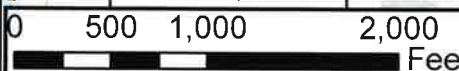
Pennsylvania American Water  
852 Wesley Drive  
Mechanicsburg, PA 17055

Drawn By: A.S. Check to Date: kg

TO BE USED FOR REFERENCE ONLY

Although every effort has been made to ensure the accuracy of the information, errors and omissions originating from physical sources used to develop the Certificated Service Territory may be reflected in the data supplied.

1 inch = 1,000 feet



Disclaimer: Bearings and distances were not developed as result of physical survey completed by a Professional Licensed Surveyor, but instead completed through employment of ESRI's ArcGIS 10.6.0 tool. The mapping data source used for the roads base mapping is from OpenStreetMap, 2020. The mapping data source used for the municipal boundaries is from Montgomery County PA GIS, 2019.  
\* Bearings and Distances attached separately!



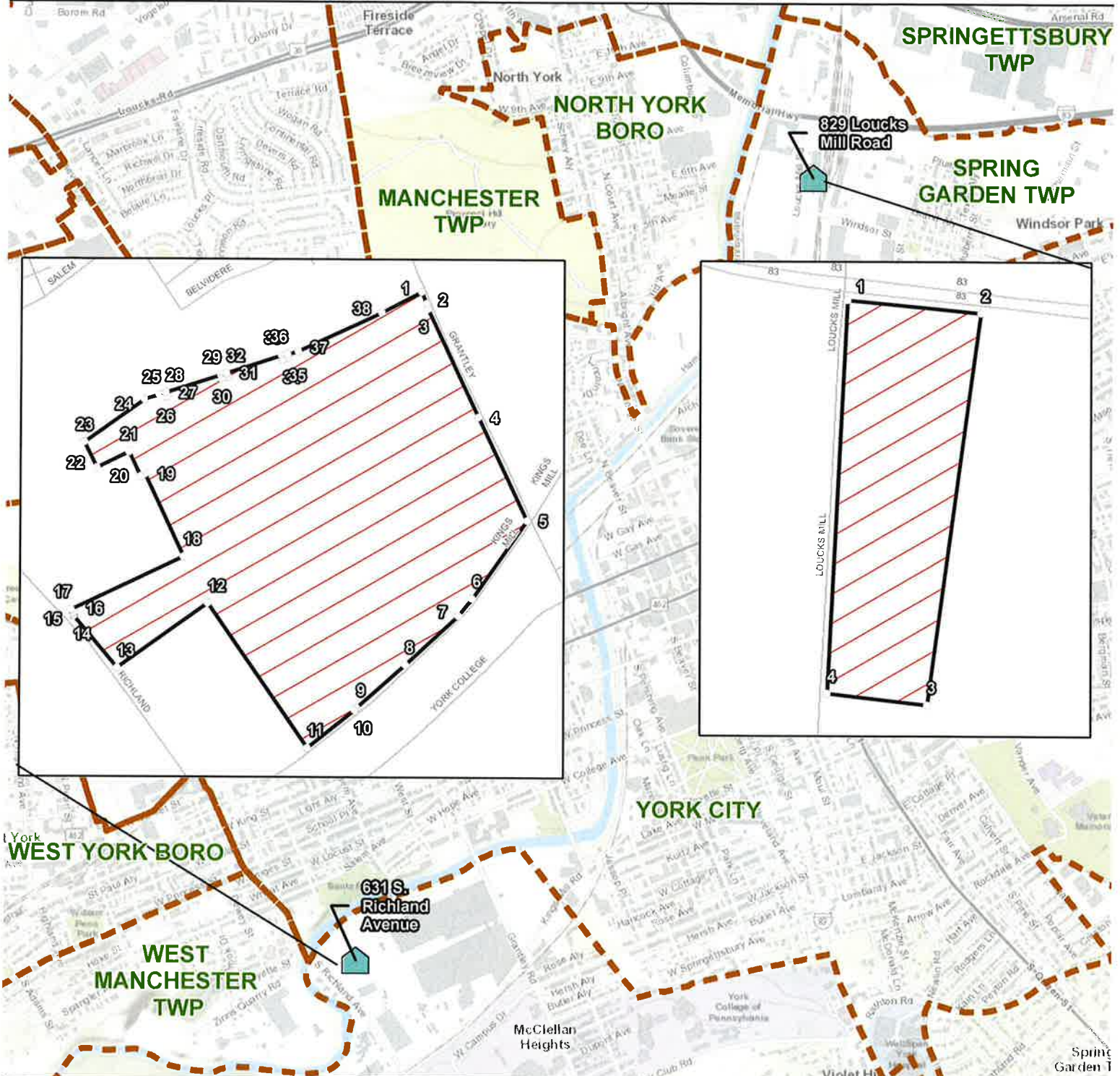
Manchester Township

2650 - 2651 Blackbridge Road			
PIN: 36000KI0216A0 & 36000KI0231R0 & 36000KI0231S0			
From	To	Bearing	Distance(Ft)
1	2	S33°09'40"E	175.03395
2	3	S25°38'28"E	167.336887
3	4	S18°26'06"E	419.807222
4	5	S13°34'13"E	180.020742
5	6	S0°00'00"W	168.961
6	7	S6°04'21"W	285.2134
7	8	S14°08'11"W	693.92007
8	9	S17°06'59"W	276.979162
9	10	S14°36'25"W	217.311785
10	11	S21°23'52"W	190.420907
11	12	S24°09'58"W	229.66497
12	13	N55°13'44"W	128.300864
13	14	N62°49'00"W	517.20756
14	15	S11°41'12"W	145.343235
15	16	S15°58'44"W	163.55607
16	17	S22°25'51"W	185.493557
17	18	S25°41'49"W	168.855079
18	19	S33°50'07"W	163.57188
19	20	S39°04'20"W	206.198338
20	21	S44°55'51"W	197.794017
21	22	S48°22'18"W	264.332426
22	23	S53°57'56"W	179.358503
23	24	S58°16'11"W	223.123802
24	25	S63°16'45"W	295.658099
25	26	N25°21'17"W	655.205422
26	27	S86°50'23"W	679.875879
27	28	S1°55'21"E	107.096288
28	29	S0°01'59"E	389.464064
29	30	N86°47'25"W	436.821194
30	31	S84°39'49"W	196.314874
31	32	S76°35'02"W	240.696506
32	33	S54°43'07"W	118.576567
33	34	N35°04'00"W	437.26713
34	35	N78°56'38"E	548.655175
35	36	N63°26'05"E	102.89401
36	37	N11°24'19"W	74.899013
37	38	N18°02'24"W	458.986726
38	39	S86°38'02"E	290.827743
39	40	N15°07'30"W	269.008685
40	41	N88°53'29"W	301.105349
41	42	N18°02'24"W	287.769675
42	43	N68°17'21"E	660.270868
43	44	S76°54'37"E	1561.734635
44	45	N1°36'37"E	837.329464
45	46	N38°55'48"E	31.50216
46	47	N73°56'25"E	36.412023
47	48	S84°30'35"E	1089.15447
48	49	N10°59'31"W	299.55044
49	50	N18°19'59"W	185.453963
50	51	N25°36'12"W	295.962406
51	52	N31°38'31"W	184.782486
52	1	N42°18'30"E	1495.291285

<b>2100 N. George Street</b>			
<b>PIN: 36000KH017100</b>			
<b>From</b>	<b>To</b>	<b>Bearing</b>	<b>Distance(Ft)</b>
1	2	S70°27'48"E	531.452912
2	3	S12°01'29"E	963.223261
3	4	S5°11'54"W	906.560501
4	5	S38°34'28"W	56.904784
5	6	S72°05'50"W	610.605865
6	7	N16°48'31"W	315.308079
7	8	N2°11'14"W	978.909257
8	9	N75°15'22"E	133.461529
9	10	N11°50'01"W	728.755048
10	1	N32°41'31"E	270.402186





<b>1750 Toronita Street</b>			
<b>PIN: 36000KI0231F0 &amp; 36000KI0231W0</b>			
<b>From</b>	<b>To</b>	<b>Bearing</b>	<b>Distance(Ft)</b>
1	2	S71°06'53"W	817.158435
2	3	N1°11'02"E	272.709204
3	4	S41°07'36"E	22.097357
4	5	S75°32'33"E	22.895012
5	6	N70°36'12"E	34.795965
6	7	N16°58'41"E	31.403664
7	8	N2°29'51"E	22.167058
8	9	N46°24'58"E	17.224725
9	10	N63°35'36"E	121.443356
10	11	N67°14'07"E	56.876661
11	12	N72°22'59"E	420.039771
12	13	N78°24'18"E	22.126131
13	14	S57°21'01"E	15.521683
14	15	S19°38'13"E	17.669635
15	16	S12°15'36"E	22.034538
16	17	S12°15'36"E	38.767075
17	1	S18°04'39"E	194.151815





**Pennsylvania-American Water Company  
 Proposed Certificated Service Territory  
 Spring Garden Township  
 Approximately 67.4 Acres  
 Spring Garden Township, York County, PA**

**Appendix A-16 - a through e - IPP**

-  Spring Garden TWP IPP Customers
-  Bearings and Distance Points
-  Municipal Boundary
-  Proposed Certificated Service Territory

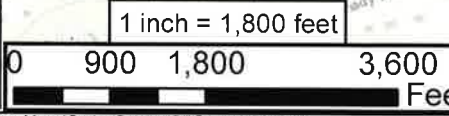


Date: 6/25/2021

Pennsylvania American Water  
 852 Wesley Drive  
 Mechanicsburg, PA 17055

TO BE USED FOR REFERENCE ONLY

Although every effort has been made to ensure the accuracy of the information, errors and conditions originating from physical sources to develop the Certificated Service Territory may be reflected in the data supplied.



Disclaimer: Bearings and distances were not developed as result of physical survey completed by a Professional Licensed Survey, but instead completed through employment of ESRI's ArcGIS COGO tool. The mapping data source used for the roads base mapping is from OpenStreetMap, 2020. The mapping data source used for the municipal boundaries is from Montgomery County PA GIS, 2019.  
 \* Bearings and Distances attached separately.

<b>631 S. Richland Avenue</b>			
<b>PIN: 48000280005B0 &amp; 4800028000500 &amp; 48000280005C0</b>			
<b>From</b>	<b>To</b>	<b>Bearing</b>	<b>Distance(Ft)</b>
1	2	S23°36'24"E	61.157916
2	3	S14°56'28"E	26.874601
3	4	S25°17'36"E	579.599667
4	5	S25°24'07"E	552.93523
5	6	S34°54'01"W	463.425019
6	7	S38°08'10"W	106.831688
7	8	S47°21'50"W	351.340444
8	9	S48°56'42"W	317.53366
9	10	S29°03'24"W	14.299756
10	11	S51°38'48"W	294.650539
11	12	N34°42'57"W	851.626221
12	13	S54°30'11"W	541.363648
13	14	N40°18'17"W	326.176989
14	15	N20°33'00"W	6.67474
15	16	N14°20'47"E	11.558447
16	17	N38°28'12"W	19.85488
17	18	N64°36'27"E	602.14276
18	19	N25°06'27"W	441.451802
19	20	S64°35'06"W	24.999355
20	21	N25°24'57"W	130.820334
21	22	S64°40'21"W	175.479916
22	23	N25°59'44"W	135.309217
23	24	N54°41'44"E	357.187504
24	25	N71°57'17"E	79.45944
25	26	S18°02'50"E	19.999967
26	27	N71°57'17"E	29.99964
27	28	N18°02'40"W	19.999657
28	29	N71°57'18"E	280.000241
29	30	S18°02'37"E	20.000608
30	31	N71°57'17"E	29.99964
31	32	N18°02'37"W	20.000608
32	33	N71°57'19"E	279.999931
33	34	S18°13'55"E	19.999002
34	35	N71°57'22"E	29.934185
35	36	N18°02'33"W	15.000616
36	37	N71°57'21"E	54.569849
37	38	N65°21'18"E	447.719419
38	1	N62°30'36"E	218.599652

<b>829 Loucks Mill Road</b>			
<b>PIN: 4800002000600 &amp; 4800002000500</b>			
<b>From</b>	<b>To</b>	<b>Bearing</b>	<b>Distance(Ft)</b>
1	2	S84°37'26"E	308.032945
2	3	S7°53'55"W	901.672174
3	4	N83°36'22"W	229.132161
4	1	N2°52'11"E	897.586419