

AUGUST 8, 2017
PRESENTATION
6PM

Public Informational Meeting
Town of Hamden

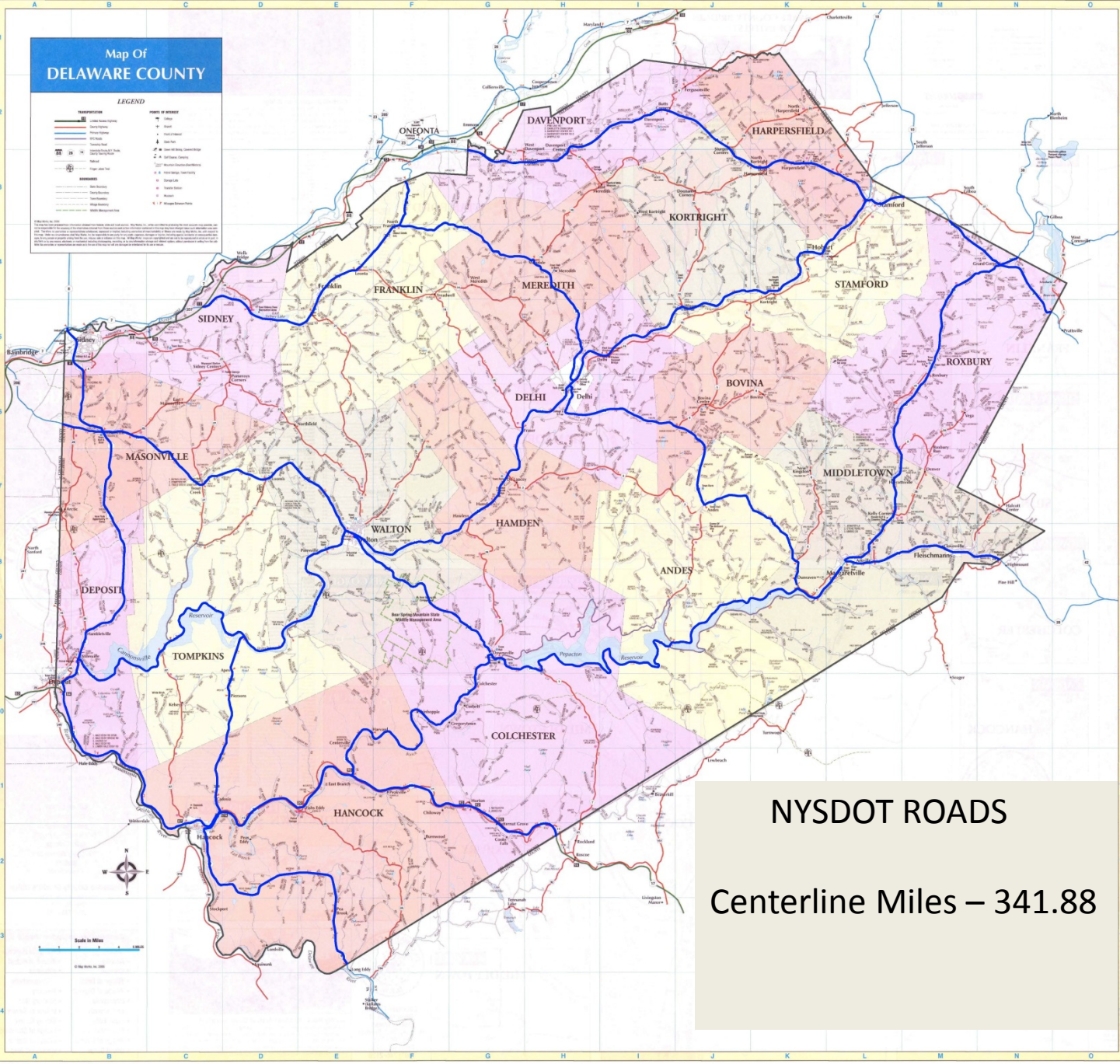
Background of Delaware County and Delaware County DPW

- ▣ Total Area – 1,467 Sq Mi
 - Larger than the state of Rhode Island – 1,212 Sq Mi
- ▣ Population – 47,980 (2010)
 - 32.7 People/Sq Mi

Map Of DELAWARE COUNTY

LEGEND

- ROADS**
 - Interstate
 - State Route
 - County Route
 - Local Road
 - Unimproved Road
 - Road Under Construction
 - Road Closed
 - Road to be Relocated
 - Road to be Widened
 - Road to be Resurfaced
 - Road to be Repaved
 - Road to be Reconstructed
 - Road to be Reopened
 - Road to be Relocated and Widened
 - Road to be Relocated and Resurfaced
 - Road to be Relocated and Reconstructed
 - Road to be Relocated and Reopened
 - Road to be Relocated and Widened and Resurfaced
 - Road to be Relocated and Widened and Reconstructed
 - Road to be Relocated and Widened and Reopened
 - Road to be Relocated and Widened and Resurfaced and Reconstructed
 - Road to be Relocated and Widened and Resurfaced and Reopened
 - Road to be Relocated and Widened and Reconstructed and Reopened
 - Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened
- OTHER FEATURES**
 - Interstate
 - State Route
 - County Route
 - Local Road
 - Unimproved Road
 - Road Under Construction
 - Road Closed
 - Road to be Relocated
 - Road to be Widened
 - Road to be Resurfaced
 - Road to be Reconstructed
 - Road to be Reopened
 - Road to be Relocated and Widened
 - Road to be Relocated and Resurfaced
 - Road to be Relocated and Reconstructed
 - Road to be Relocated and Reopened
 - Road to be Relocated and Widened and Resurfaced
 - Road to be Relocated and Widened and Reconstructed
 - Road to be Relocated and Widened and Reopened
 - Road to be Relocated and Widened and Resurfaced and Reconstructed
 - Road to be Relocated and Widened and Resurfaced and Reopened
 - Road to be Relocated and Widened and Reconstructed and Reopened
 - Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened
- WATER**
 - River
 - Stream
 - Lake
 - Pond
 - Reservoir
 - Dam
 - Canal
 - Trench
 - Ditch
 - Embankment
 - Levee
 - Floodplain
 - Wetland
 - Swamp
 - Marsh
 - Prairie
 - Field
 - Pasture
 - Forest
 - Woodland
 - Shrubland
 - Grassland
 - Tundra
 - Desert
 - Mountain
 - Hill
 - Valley
 - Plateau
 - Plain
 - Steppe
 - Savanna
 - Tundra
 - Desert
 - Mountain
 - Hill
 - Valley
 - Plateau
 - Plain
 - Steppe
 - Savanna



NYSDOT ROADS
Centerline Miles – 341.88

DELAWARE COUNTY ROAD INDEX

ROUTE	CLASSIFICATION	LENGTH (MILES)	START POINT	END POINT
1	Interstate	1.0	Oneonta	Oneonta
2	State Route	1.5	Oneonta	Oneonta
3	County Route	2.0	Oneonta	Oneonta
4	Local Road	2.5	Oneonta	Oneonta
5	Unimproved Road	3.0	Oneonta	Oneonta
6	Road Under Construction	3.5	Oneonta	Oneonta
7	Road Closed	4.0	Oneonta	Oneonta
8	Road to be Relocated	4.5	Oneonta	Oneonta
9	Road to be Widened	5.0	Oneonta	Oneonta
10	Road to be Resurfaced	5.5	Oneonta	Oneonta
11	Road to be Reconstructed	6.0	Oneonta	Oneonta
12	Road to be Reopened	6.5	Oneonta	Oneonta
13	Road to be Relocated and Widened	7.0	Oneonta	Oneonta
14	Road to be Relocated and Resurfaced	7.5	Oneonta	Oneonta
15	Road to be Relocated and Reconstructed	8.0	Oneonta	Oneonta
16	Road to be Relocated and Reopened	8.5	Oneonta	Oneonta
17	Road to be Relocated and Widened and Resurfaced	9.0	Oneonta	Oneonta
18	Road to be Relocated and Widened and Reconstructed	9.5	Oneonta	Oneonta
19	Road to be Relocated and Widened and Reopened	10.0	Oneonta	Oneonta
20	Road to be Relocated and Widened and Resurfaced and Reconstructed	10.5	Oneonta	Oneonta
21	Road to be Relocated and Widened and Resurfaced and Reopened	11.0	Oneonta	Oneonta
22	Road to be Relocated and Widened and Reconstructed and Reopened	11.5	Oneonta	Oneonta
23	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	12.0	Oneonta	Oneonta
24	Road to be Relocated and Widened and Reconstructed and Reopened	12.5	Oneonta	Oneonta
25	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	13.0	Oneonta	Oneonta
26	Road to be Relocated and Widened and Reconstructed and Reopened	13.5	Oneonta	Oneonta
27	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	14.0	Oneonta	Oneonta
28	Road to be Relocated and Widened and Reconstructed and Reopened	14.5	Oneonta	Oneonta
29	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	15.0	Oneonta	Oneonta
30	Road to be Relocated and Widened and Reconstructed and Reopened	15.5	Oneonta	Oneonta
31	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	16.0	Oneonta	Oneonta
32	Road to be Relocated and Widened and Reconstructed and Reopened	16.5	Oneonta	Oneonta
33	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	17.0	Oneonta	Oneonta
34	Road to be Relocated and Widened and Reconstructed and Reopened	17.5	Oneonta	Oneonta
35	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	18.0	Oneonta	Oneonta
36	Road to be Relocated and Widened and Reconstructed and Reopened	18.5	Oneonta	Oneonta
37	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	19.0	Oneonta	Oneonta
38	Road to be Relocated and Widened and Reconstructed and Reopened	19.5	Oneonta	Oneonta
39	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	20.0	Oneonta	Oneonta
40	Road to be Relocated and Widened and Reconstructed and Reopened	20.5	Oneonta	Oneonta
41	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	21.0	Oneonta	Oneonta
42	Road to be Relocated and Widened and Reconstructed and Reopened	21.5	Oneonta	Oneonta
43	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	22.0	Oneonta	Oneonta
44	Road to be Relocated and Widened and Reconstructed and Reopened	22.5	Oneonta	Oneonta
45	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	23.0	Oneonta	Oneonta
46	Road to be Relocated and Widened and Reconstructed and Reopened	23.5	Oneonta	Oneonta
47	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	24.0	Oneonta	Oneonta
48	Road to be Relocated and Widened and Reconstructed and Reopened	24.5	Oneonta	Oneonta
49	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	25.0	Oneonta	Oneonta
50	Road to be Relocated and Widened and Reconstructed and Reopened	25.5	Oneonta	Oneonta
51	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	26.0	Oneonta	Oneonta
52	Road to be Relocated and Widened and Reconstructed and Reopened	26.5	Oneonta	Oneonta
53	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	27.0	Oneonta	Oneonta
54	Road to be Relocated and Widened and Reconstructed and Reopened	27.5	Oneonta	Oneonta
55	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	28.0	Oneonta	Oneonta
56	Road to be Relocated and Widened and Reconstructed and Reopened	28.5	Oneonta	Oneonta
57	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	29.0	Oneonta	Oneonta
58	Road to be Relocated and Widened and Reconstructed and Reopened	29.5	Oneonta	Oneonta
59	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	30.0	Oneonta	Oneonta
60	Road to be Relocated and Widened and Reconstructed and Reopened	30.5	Oneonta	Oneonta
61	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	31.0	Oneonta	Oneonta
62	Road to be Relocated and Widened and Reconstructed and Reopened	31.5	Oneonta	Oneonta
63	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	32.0	Oneonta	Oneonta
64	Road to be Relocated and Widened and Reconstructed and Reopened	32.5	Oneonta	Oneonta
65	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	33.0	Oneonta	Oneonta
66	Road to be Relocated and Widened and Reconstructed and Reopened	33.5	Oneonta	Oneonta
67	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	34.0	Oneonta	Oneonta
68	Road to be Relocated and Widened and Reconstructed and Reopened	34.5	Oneonta	Oneonta
69	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	35.0	Oneonta	Oneonta
70	Road to be Relocated and Widened and Reconstructed and Reopened	35.5	Oneonta	Oneonta
71	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	36.0	Oneonta	Oneonta
72	Road to be Relocated and Widened and Reconstructed and Reopened	36.5	Oneonta	Oneonta
73	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	37.0	Oneonta	Oneonta
74	Road to be Relocated and Widened and Reconstructed and Reopened	37.5	Oneonta	Oneonta
75	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	38.0	Oneonta	Oneonta
76	Road to be Relocated and Widened and Reconstructed and Reopened	38.5	Oneonta	Oneonta
77	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	39.0	Oneonta	Oneonta
78	Road to be Relocated and Widened and Reconstructed and Reopened	39.5	Oneonta	Oneonta
79	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	40.0	Oneonta	Oneonta
80	Road to be Relocated and Widened and Reconstructed and Reopened	40.5	Oneonta	Oneonta
81	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	41.0	Oneonta	Oneonta
82	Road to be Relocated and Widened and Reconstructed and Reopened	41.5	Oneonta	Oneonta
83	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	42.0	Oneonta	Oneonta
84	Road to be Relocated and Widened and Reconstructed and Reopened	42.5	Oneonta	Oneonta
85	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	43.0	Oneonta	Oneonta
86	Road to be Relocated and Widened and Reconstructed and Reopened	43.5	Oneonta	Oneonta
87	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	44.0	Oneonta	Oneonta
88	Road to be Relocated and Widened and Reconstructed and Reopened	44.5	Oneonta	Oneonta
89	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	45.0	Oneonta	Oneonta
90	Road to be Relocated and Widened and Reconstructed and Reopened	45.5	Oneonta	Oneonta
91	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	46.0	Oneonta	Oneonta
92	Road to be Relocated and Widened and Reconstructed and Reopened	46.5	Oneonta	Oneonta
93	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	47.0	Oneonta	Oneonta
94	Road to be Relocated and Widened and Reconstructed and Reopened	47.5	Oneonta	Oneonta
95	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	48.0	Oneonta	Oneonta
96	Road to be Relocated and Widened and Reconstructed and Reopened	48.5	Oneonta	Oneonta
97	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	49.0	Oneonta	Oneonta
98	Road to be Relocated and Widened and Reconstructed and Reopened	49.5	Oneonta	Oneonta
99	Road to be Relocated and Widened and Resurfaced and Reconstructed and Reopened	50.0	Oneonta	Oneonta
100	Road to be Relocated and Widened and Reconstructed and Reopened	50.5	Oneonta	Oneonta

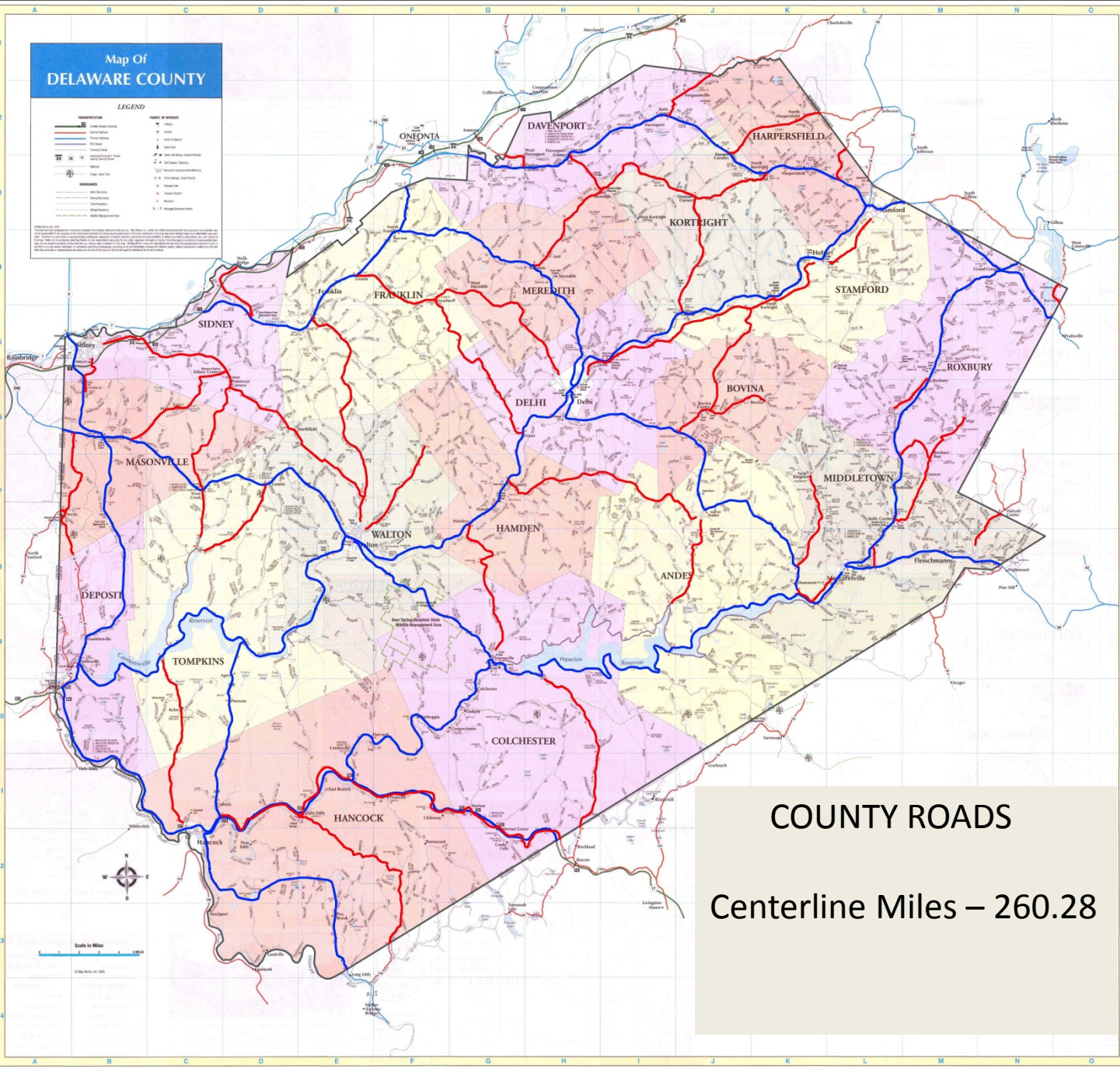
DELAWARE COUNTY PLACES INDEX

PLACE	POPULATION	AREA (SQ. MILES)	LOCATION
Oneonta	1,200	1.0	Oneonta
Davenport	800	1.5	Davenport
Harpersfield	600	2.0	Harpersfield
Kortright	400	2.5	Kortright
Stamford	300	3.0	Stamford
Franklin	200	3.5	Franklin
Mererith	150	4.0	Mererith
Bovina	100	4.5	Bovina
Sidney	80	5.0	Sidney
Masonville	60	5.5	Masonville
Walton	40	6.0	Walton
Hamden	30	6.5	Hamden
Andes	20	7.0	Andes
Deposit	15	7.5	Deposit
Tompkins	10	8.0	Tompkins
Colchester	8	8.5	Colchester
Hancock	6	9.0	Hancock

Map Of DELAWARE COUNTY

LEGEND

- ROADS**
 - Interstate
 - State Route
 - County Route
 - Local Road
 - Unimproved Road
- WATER**
 - Major Waterway
 - Minor Waterway
 - Stream
 - Canal
 - Reservoir
 - Lake
 - Pond
 - Swamp
 - Wetland
- BOUNDARIES**
 - County
 - Ward
 - Unincorporated Area
 - Water
 - Other
- POINTS OF INTEREST**
 - City
 - Village
 - Hamlet
 - Post Office
 - Fire Station
 - Police Station
 - Public Building
 - Religious Building
 - Historic Site
 - Landmark
 - Other



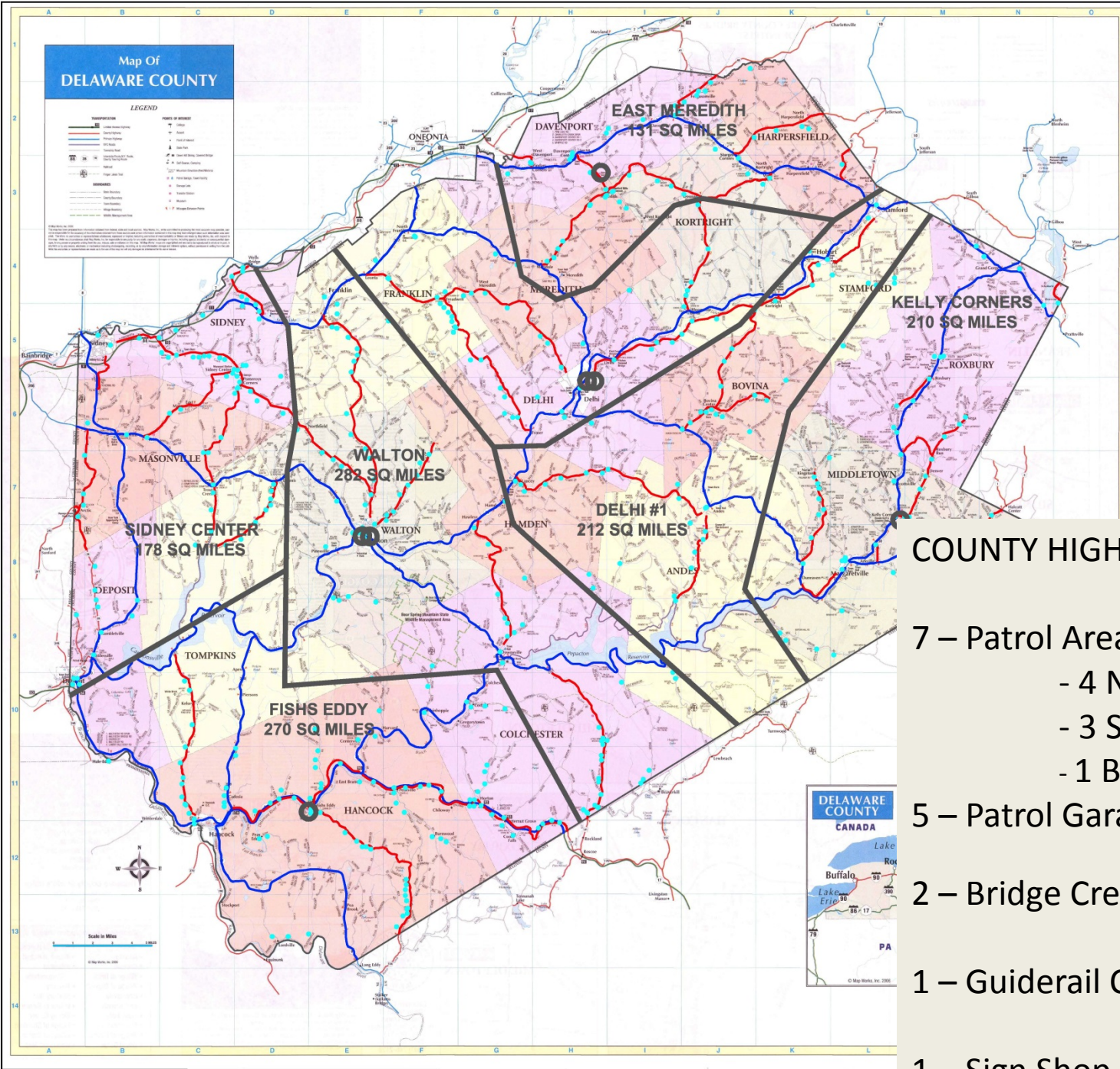
COUNTY ROADS
Centerline Miles – 260.28

DELAWARE COUNTY ROAD INDEX

ROUTE	CLASSIFICATION	LENGTH (MILES)	STARTING POINT	ENDING POINT
1	Interstate	1.0	Delaware	Delaware
2	State Route	1.5	Delaware	Delaware
3	State Route	2.0	Delaware	Delaware
4	State Route	2.5	Delaware	Delaware
5	State Route	3.0	Delaware	Delaware
6	State Route	3.5	Delaware	Delaware
7	State Route	4.0	Delaware	Delaware
8	State Route	4.5	Delaware	Delaware
9	State Route	5.0	Delaware	Delaware
10	State Route	5.5	Delaware	Delaware
11	State Route	6.0	Delaware	Delaware
12	State Route	6.5	Delaware	Delaware
13	State Route	7.0	Delaware	Delaware
14	State Route	7.5	Delaware	Delaware
15	State Route	8.0	Delaware	Delaware
16	State Route	8.5	Delaware	Delaware
17	State Route	9.0	Delaware	Delaware
18	State Route	9.5	Delaware	Delaware
19	State Route	10.0	Delaware	Delaware
20	State Route	10.5	Delaware	Delaware
21	State Route	11.0	Delaware	Delaware
22	State Route	11.5	Delaware	Delaware
23	State Route	12.0	Delaware	Delaware
24	State Route	12.5	Delaware	Delaware
25	State Route	13.0	Delaware	Delaware
26	State Route	13.5	Delaware	Delaware
27	State Route	14.0	Delaware	Delaware
28	State Route	14.5	Delaware	Delaware
29	State Route	15.0	Delaware	Delaware
30	State Route	15.5	Delaware	Delaware
31	State Route	16.0	Delaware	Delaware
32	State Route	16.5	Delaware	Delaware
33	State Route	17.0	Delaware	Delaware
34	State Route	17.5	Delaware	Delaware
35	State Route	18.0	Delaware	Delaware
36	State Route	18.5	Delaware	Delaware
37	State Route	19.0	Delaware	Delaware
38	State Route	19.5	Delaware	Delaware
39	State Route	20.0	Delaware	Delaware
40	State Route	20.5	Delaware	Delaware
41	State Route	21.0	Delaware	Delaware
42	State Route	21.5	Delaware	Delaware
43	State Route	22.0	Delaware	Delaware
44	State Route	22.5	Delaware	Delaware
45	State Route	23.0	Delaware	Delaware
46	State Route	23.5	Delaware	Delaware
47	State Route	24.0	Delaware	Delaware
48	State Route	24.5	Delaware	Delaware
49	State Route	25.0	Delaware	Delaware
50	State Route	25.5	Delaware	Delaware
51	State Route	26.0	Delaware	Delaware
52	State Route	26.5	Delaware	Delaware
53	State Route	27.0	Delaware	Delaware
54	State Route	27.5	Delaware	Delaware
55	State Route	28.0	Delaware	Delaware
56	State Route	28.5	Delaware	Delaware
57	State Route	29.0	Delaware	Delaware
58	State Route	29.5	Delaware	Delaware
59	State Route	30.0	Delaware	Delaware
60	State Route	30.5	Delaware	Delaware
61	State Route	31.0	Delaware	Delaware
62	State Route	31.5	Delaware	Delaware
63	State Route	32.0	Delaware	Delaware
64	State Route	32.5	Delaware	Delaware
65	State Route	33.0	Delaware	Delaware
66	State Route	33.5	Delaware	Delaware
67	State Route	34.0	Delaware	Delaware
68	State Route	34.5	Delaware	Delaware
69	State Route	35.0	Delaware	Delaware
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71	State Route	36.0	Delaware	Delaware
72	State Route	36.5	Delaware	Delaware
73	State Route	37.0	Delaware	Delaware
74	State Route	37.5	Delaware	Delaware
75	State Route	38.0	Delaware	Delaware
76	State Route	38.5	Delaware	Delaware
77	State Route	39.0	Delaware	Delaware
78	State Route	39.5	Delaware	Delaware
79	State Route	40.0	Delaware	Delaware
80	State Route	40.5	Delaware	Delaware
81	State Route	41.0	Delaware	Delaware
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83	State Route	42.0	Delaware	Delaware
84	State Route	42.5	Delaware	Delaware
85	State Route	43.0	Delaware	Delaware
86	State Route	43.5	Delaware	Delaware
87	State Route	44.0	Delaware	Delaware
88	State Route	44.5	Delaware	Delaware
89	State Route	45.0	Delaware	Delaware
90	State Route	45.5	Delaware	Delaware
91	State Route	46.0	Delaware	Delaware
92	State Route	46.5	Delaware	Delaware
93	State Route	47.0	Delaware	Delaware
94	State Route	47.5	Delaware	Delaware
95	State Route	48.0	Delaware	Delaware
96	State Route	48.5	Delaware	Delaware
97	State Route	49.0	Delaware	Delaware
98	State Route	49.5	Delaware	Delaware
99	State Route	50.0	Delaware	Delaware
100	State Route	50.5	Delaware	Delaware

DELAWARE COUNTY PLACES INDEX

PLACE	POPULATION	LOCATION
Delaware	10,000	Delaware
Franklin	5,000	Franklin
Stamford	4,000	Stamford
Delhi	3,000	Delhi
Walton	2,500	Walton
Hamden	2,000	Hamden
Anes	1,500	Anes
Colchester	1,000	Colchester
Hancock	800	Hancock
Other places



DELAWARE COUNTY ROAD INDEX

ROUTE	START	END	START	END	START	END
1	100	100	100	100	100	100
2	100	100	100	100	100	100
3	100	100	100	100	100	100
4	100	100	100	100	100	100
5	100	100	100	100	100	100
6	100	100	100	100	100	100
7	100	100	100	100	100	100
8	100	100	100	100	100	100
9	100	100	100	100	100	100
10	100	100	100	100	100	100
11	100	100	100	100	100	100
12	100	100	100	100	100	100
13	100	100	100	100	100	100
14	100	100	100	100	100	100
15	100	100	100	100	100	100
16	100	100	100	100	100	100
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18	100	100	100	100	100	100
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22	100	100	100	100	100	100
23	100	100	100	100	100	100
24	100	100	100	100	100	100
25	100	100	100	100	100	100
26	100	100	100	100	100	100
27	100	100	100	100	100	100
28	100	100	100	100	100	100
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33	100	100	100	100	100	100
34	100	100	100	100	100	100
35	100	100	100	100	100	100
36	100	100	100	100	100	100
37	100	100	100	100	100	100
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39	100	100	100	100	100	100
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41	100	100	100	100	100	100
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44	100	100	100	100	100	100
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50	100	100	100	100	100	100
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97	100	100	100	100	100	100
98	100	100	100	100	100	100
99	100	100	100	100	100	100
100	100	100	100	100	100	100

COUNTY HIGHWAY PATROLS

- 7 – Patrol Areas Total
 - 4 North Patrols
 - 3 South Patrols
 - 1 Bridge Maintenance

5 – Patrol Garages

2 – Bridge Crews in Delhi

1 – Guiderail Crew in Delhi

1 – Sign Shop in Delhi



COUNTY OWNED EQUIPMENT

- ▣ PICKUPS - 34
 - ▣ SINGLE AXLES - 18
 - ▣ TANDEM AXLES - 22
 - ▣ TRACTOR AND TRAILERS - 15
 - ▣ SPECIALIZED TRUCKS/TRAILERS - 12
 - ▣ TRACTORS - 5
 - ▣ BACKHOES - 8
 - ▣ LOADERS - 6
 - ▣ ROLLERS - 9
 - ▣ GRADERS - 3
 - ▣ BULLDOZERS - 2
 - ▣ BROOMS - 5
 - ▣ WOOD CHIPPER - 4
 - ▣ EXCAVATORS - 9
 - ▣ CRANES - 3
 - ▣ SPECIALIZED EQUIPMENT - 16
 - ▣ CARS AND VANS - 11
-
- TOTAL PIECES OF EQUIPMENT/TRUCKS - 182
 - TOTAL EST. VALUE EQUIP - \$6.9 MILLION
 - TOTAL EST. VALUE VEHICLES - \$8.5 MILLION

Existing Facility



**BRIDGE SHOP
(LEWIS BUILDING)**

**FUEL
TANK**

**OFFICE OF
EMPLOYMENT/TRAINING
VETERANS SERVICE**

**D.P.W
OFFICES**

D.P.W SHOP

**FABRICATION SHOP
(POLE BARN)**

**SERVICE
DEPARTMENT
(WICKHAMS)**

SALT SHED

**SKELETON
BUILDING**

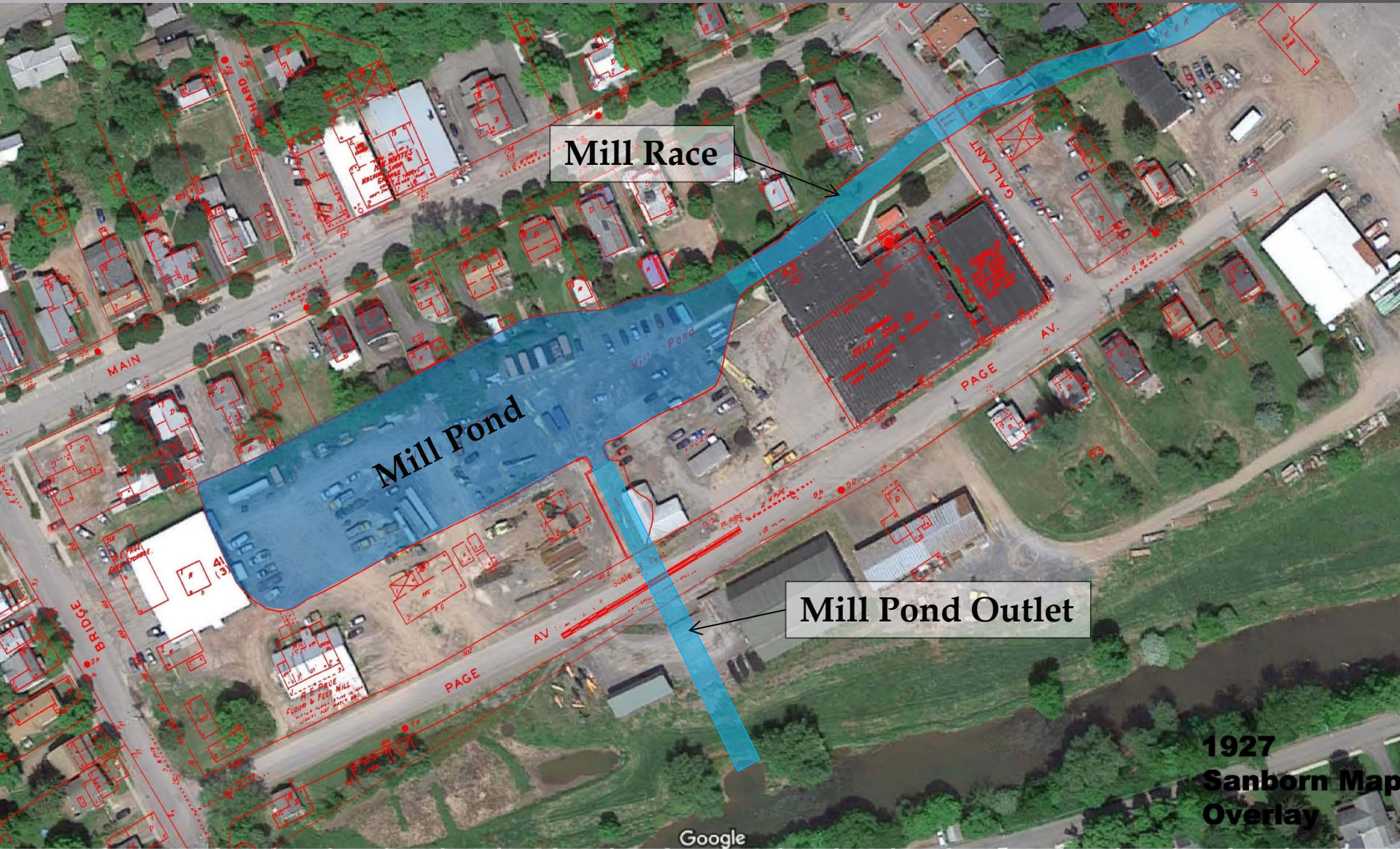
D.P.W STOREHOUSE

SALT SHED

CABINET SHOP

**HOPPER
HANGER**

1927 Sanborn Map



Mill Race

Mill Pond

Mill Pond Outlet

1927
Sanborn Map
Overlay



SCALE = 1:2,256



Measure Tools

Close

Distance Area Location

Select Area Units:

Acres

Select a measure mode:



Area: 13.770 Acres

Streets Imagery Topo



Roof Issues

- ▣ 1990 – Leaks throughout garage & Annex
- ▣ August 8, 1990 Resolution #187 Authorization of Award for Proposal 29-90 Garage Roof Replacement
Total Cost \$733,690
 - ▣ Contract 1 General Construction
 - ▣ Contract 2 Roofing
 - ▣ Contract 3 Mechanical

Resolution Failed - Noes 1187 to Ayes 312

Concerns

- Too much money to put into old building, recommended pressure treated lumber under membrane roof
- Building not suited for highway building, set up dedicated fund of \$100,000 per year to build a new facility in 10-12 years

Roof Issues Cont.

- ▣ 1991 –New Flat Roof
 - Cost: \$168,250
 - Life: 20 year warranty (12/10/1990)
 - Encapsulated asbestos in old roof
 - Little/no insulation
- ▣ 2000-2006 Excessive leaks in maintenance area
 - Needed new dry space for mechanics to work
 - Purchased Wickham's Property & Buildings in 2006
- ▣ Began research for new shop
 - Possibly between DPW office building and Wickham's building

Roof Issues Cont.

- ▣ 2013 – Consulted Delaware Engineering for new roof plan
 - Structural deficiencies in existing building
 - Costly structural changes to support new roof
- ▣ 2014 Wendel retained for conceptual design of new maintenance facility
 - Identify what size building would be needed to facilitate DPW needs
 - Establish what size building could be built with minimal effect to flood surface water elevations

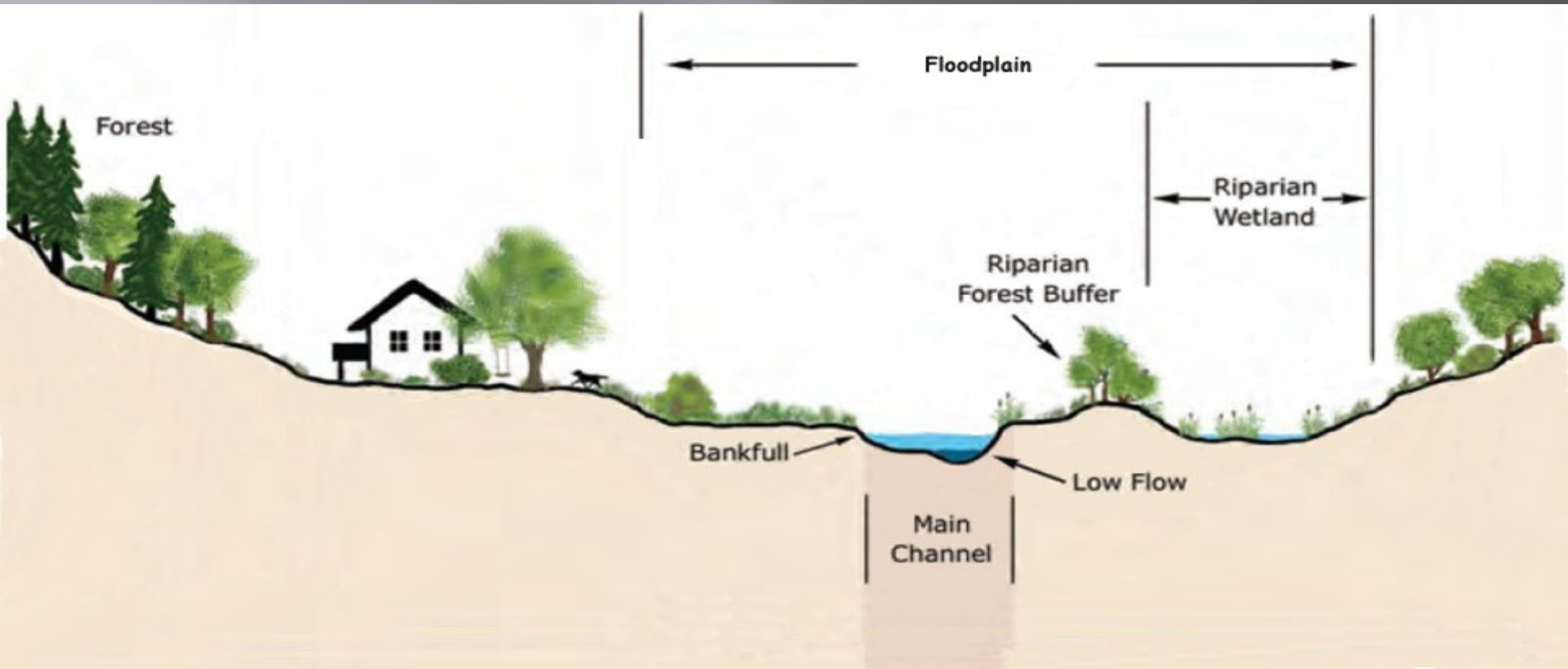
Roof Leak



[VIDEO](#)

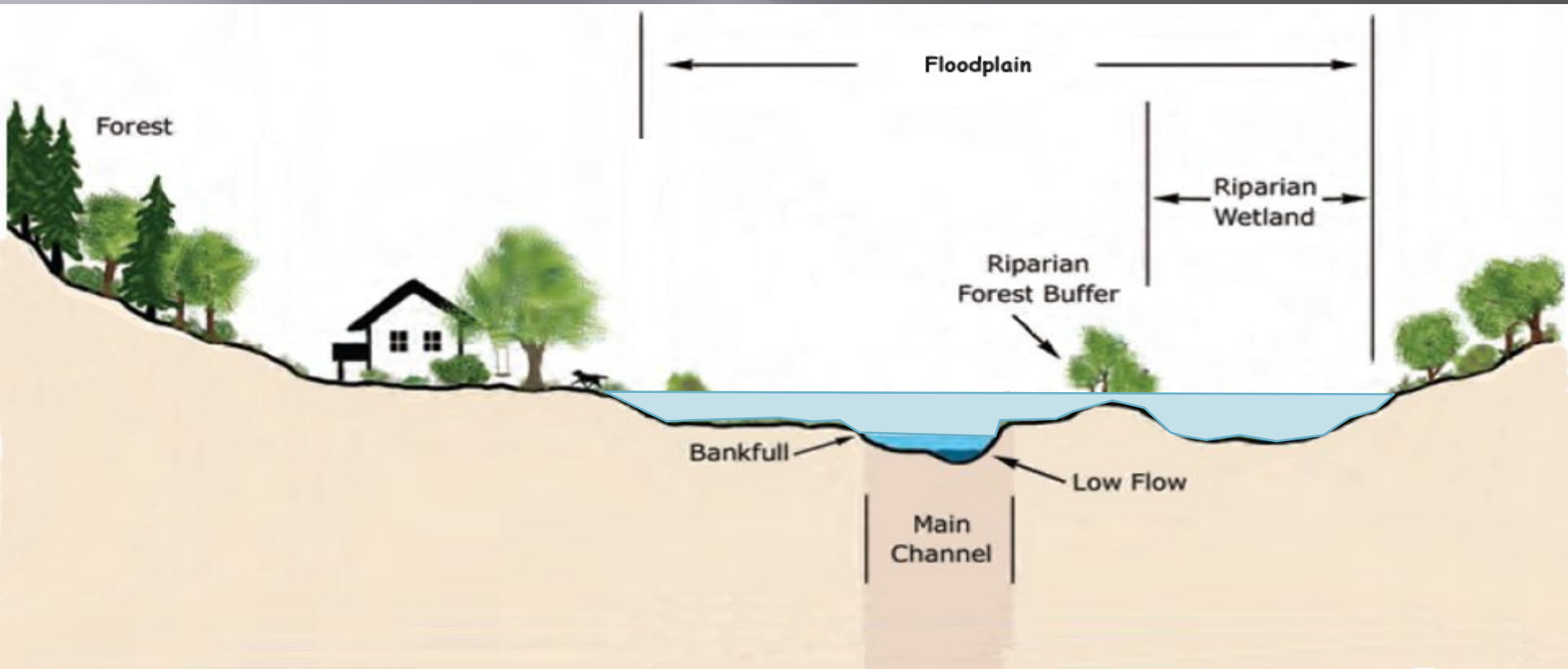
Floodplain

The floodplain is part of the river during storm conditions



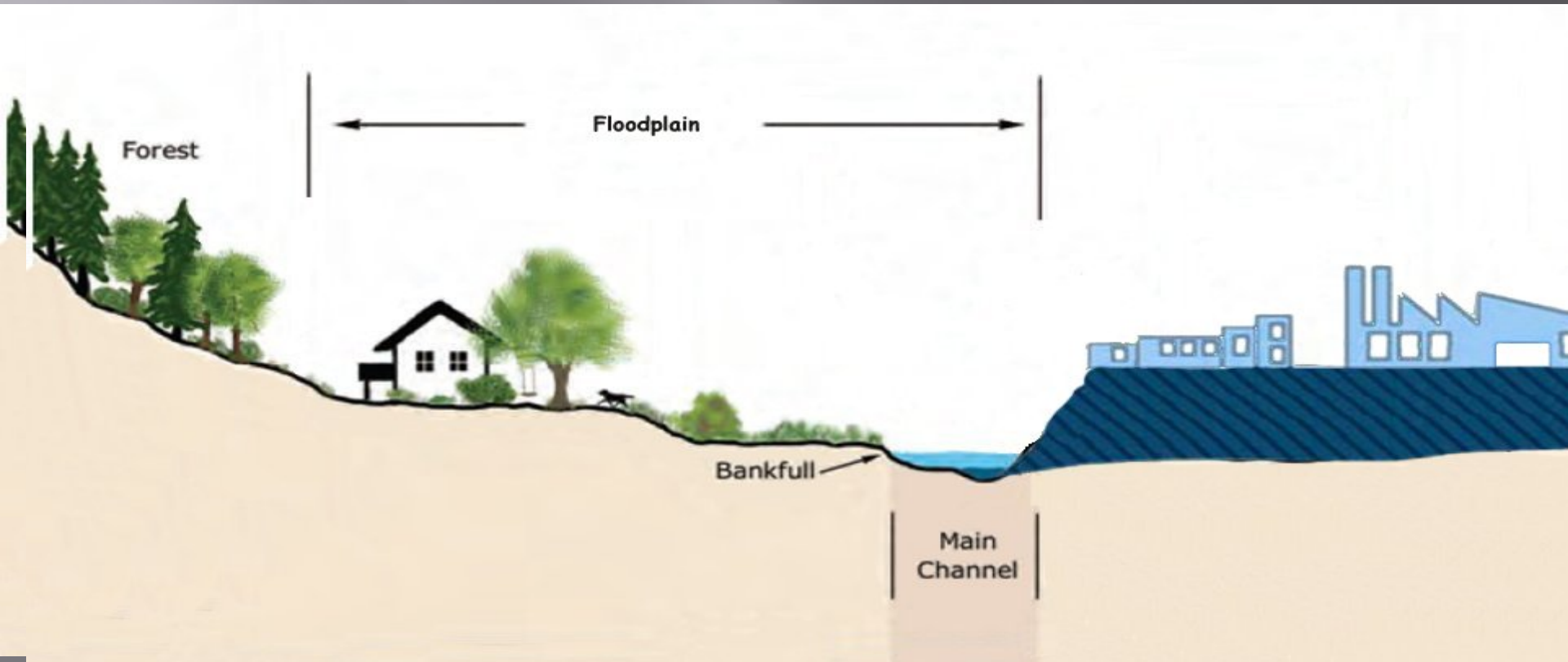
Floodplain

The floodplain is part of the river during storm conditions



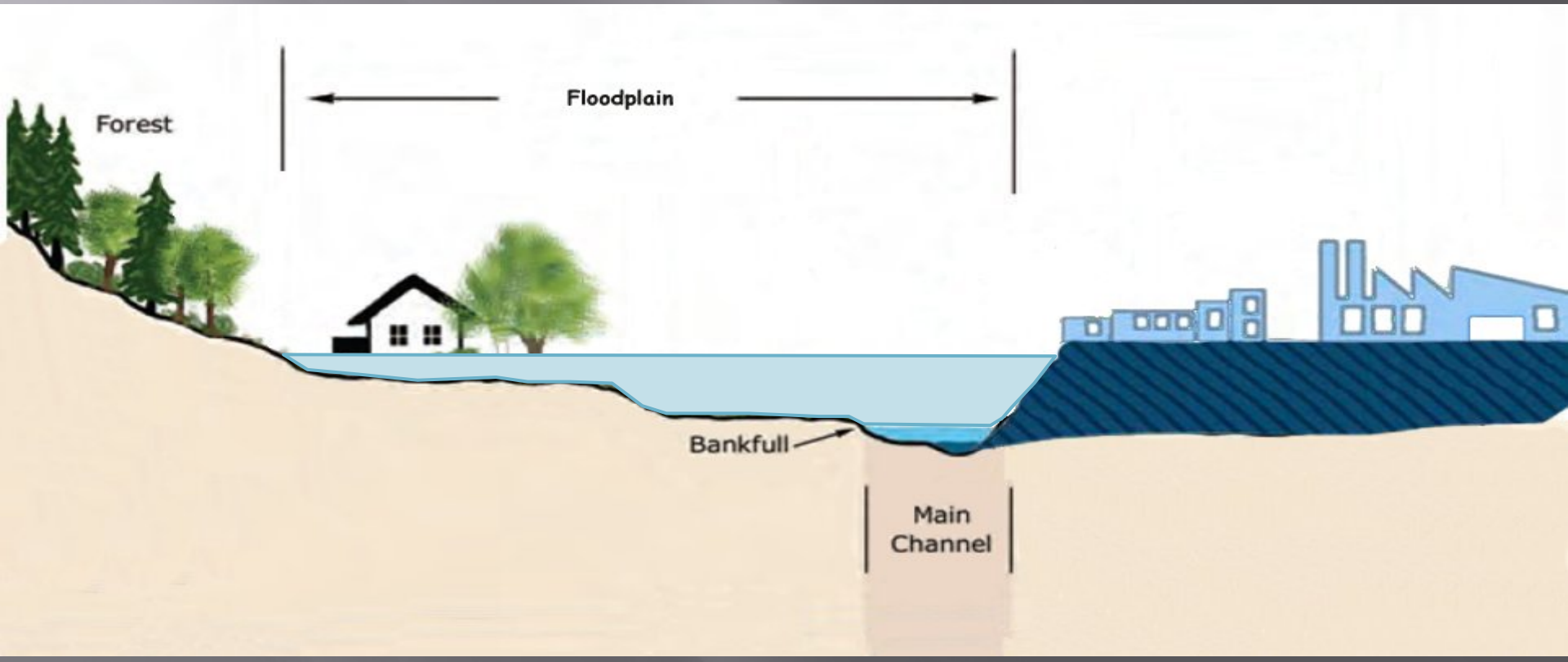
necessarily Tomorrow's floodplain

If large areas of the floodplain are filled, then there will be an increase in the land area needed to store flood waters. This means your home, farm, or business may be impacted.

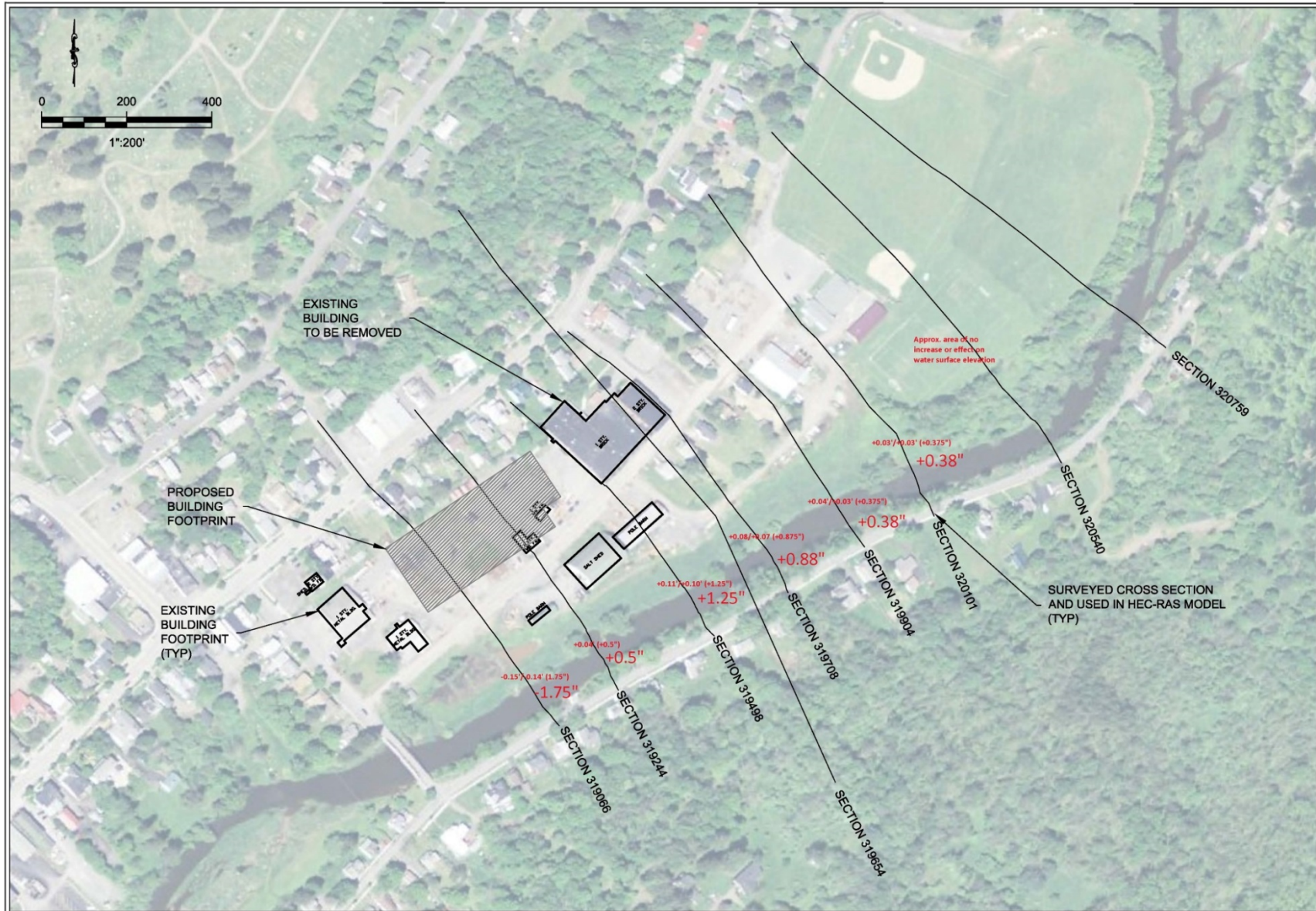



necessarily Tomorrow's floodplain

If large areas of the floodplain are filled, then there will be an increase in the land area needed to store flood waters. This means your home, farm, or business may be impacted.



Initial Study w/No Mitigation



REVISION DATE DATE	
	
DCDPW	
CONCEPTUAL NOT FOR CONSTRUCTION	
CROSS SECTIONS-PLAN VIEW	DELHI, NY
DCDPW FACILITY CROSS SECTIONS	
DATE:	2/6/15
DESIGNED BY:	GDP
DRAWN BY:	GDP
CHECKED BY:	CFW
WEC JOB NO.	NY E037.2014
PLAN NO.	1
SHEET 1 of 2	

Results of initial study

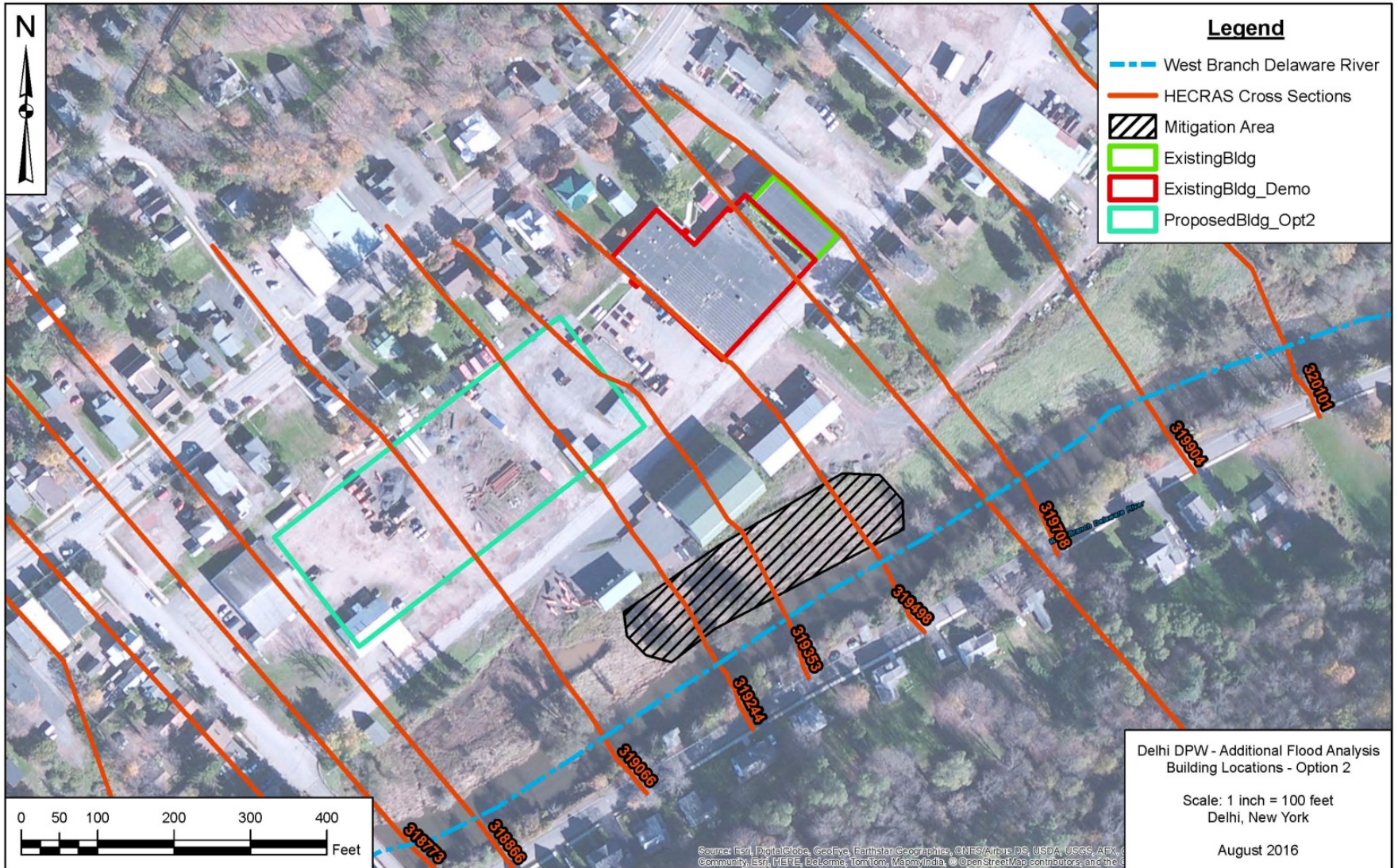
- ▣ New building could be constructed with compensating flood mitigation
- ▣ However, would still raise the 100 year water surface elevation
- ▣ Need for second study with a more strict design criteria

Second Study Criteria

- ▣ Structure set above the 500 year flood elevation
- ▣ Zero impact on the 100 year flood elevation
- ▣ Option 1
 - Largest possible structure to fit on site with no rise of the 100 year flood elevation
- ▣ Option 2
 - Similar to option 1 with removal of salt shed and skeleton building for additional mitigation area
- ▣ Option 3
 - Assume proposed building will be placed in existing building footprint and existing structure demolished

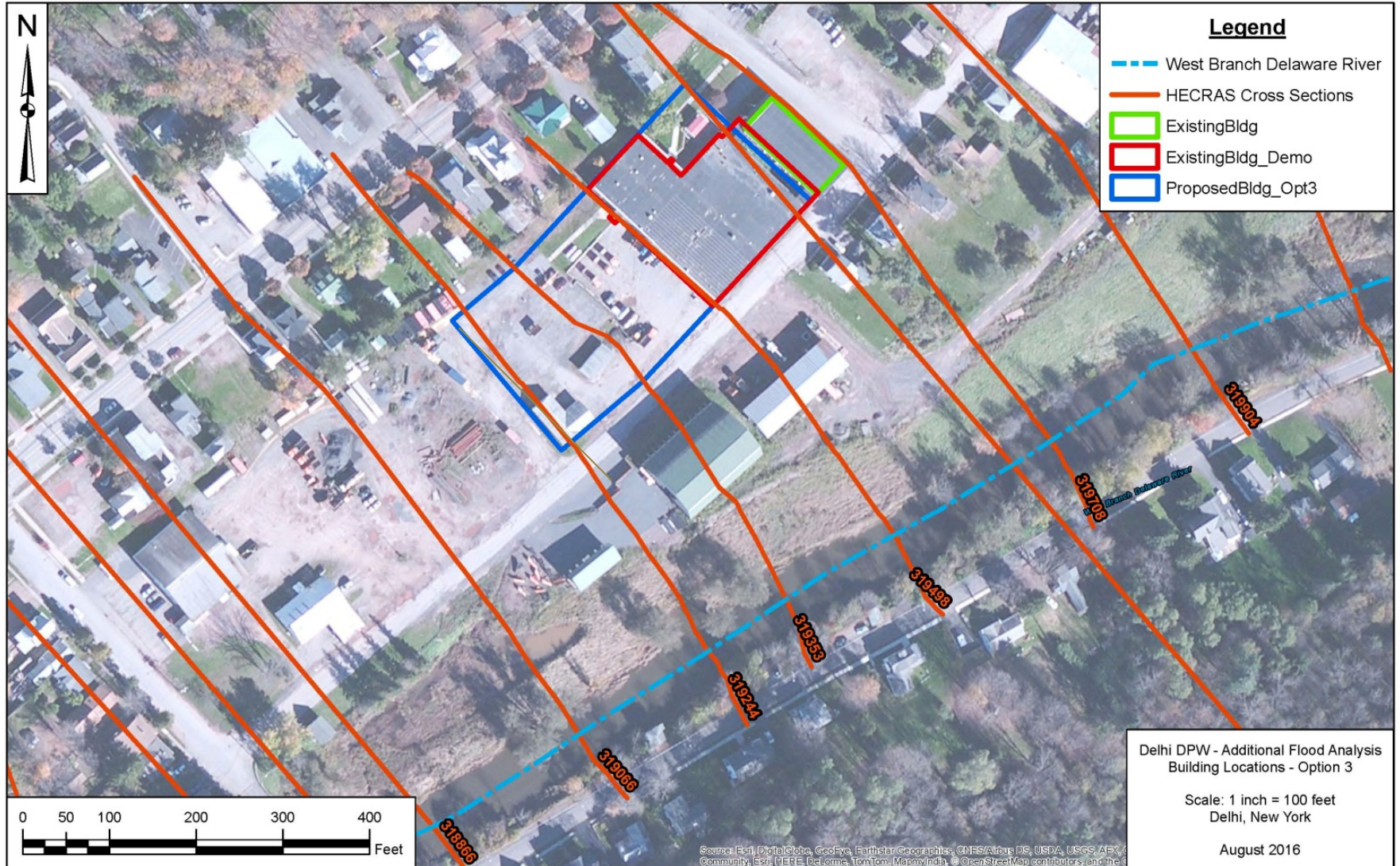
Option 2

Similar to Option 1 with Mitigation and the removal of the Salt Shed and Skeleton Buildings



Option 3

Locate Proposed Building in Existing Building Footprint



Results of Second Study

- ▣ Option 1
 - Structure would need to be much smaller than existing building
 - Not considered a feasible alternative
- ▣ Option 2
 - Initial increase of water surface elevation adjacent to mitigation area
 - Decrease in water surface elevation upstream
- ▣ Option 3
 - Provides best results per design criteria
 - More in depth model needs to be preformed
 - Proposed floor elevation raised 5' from current floor elevation

OFF-SITE STORAGE

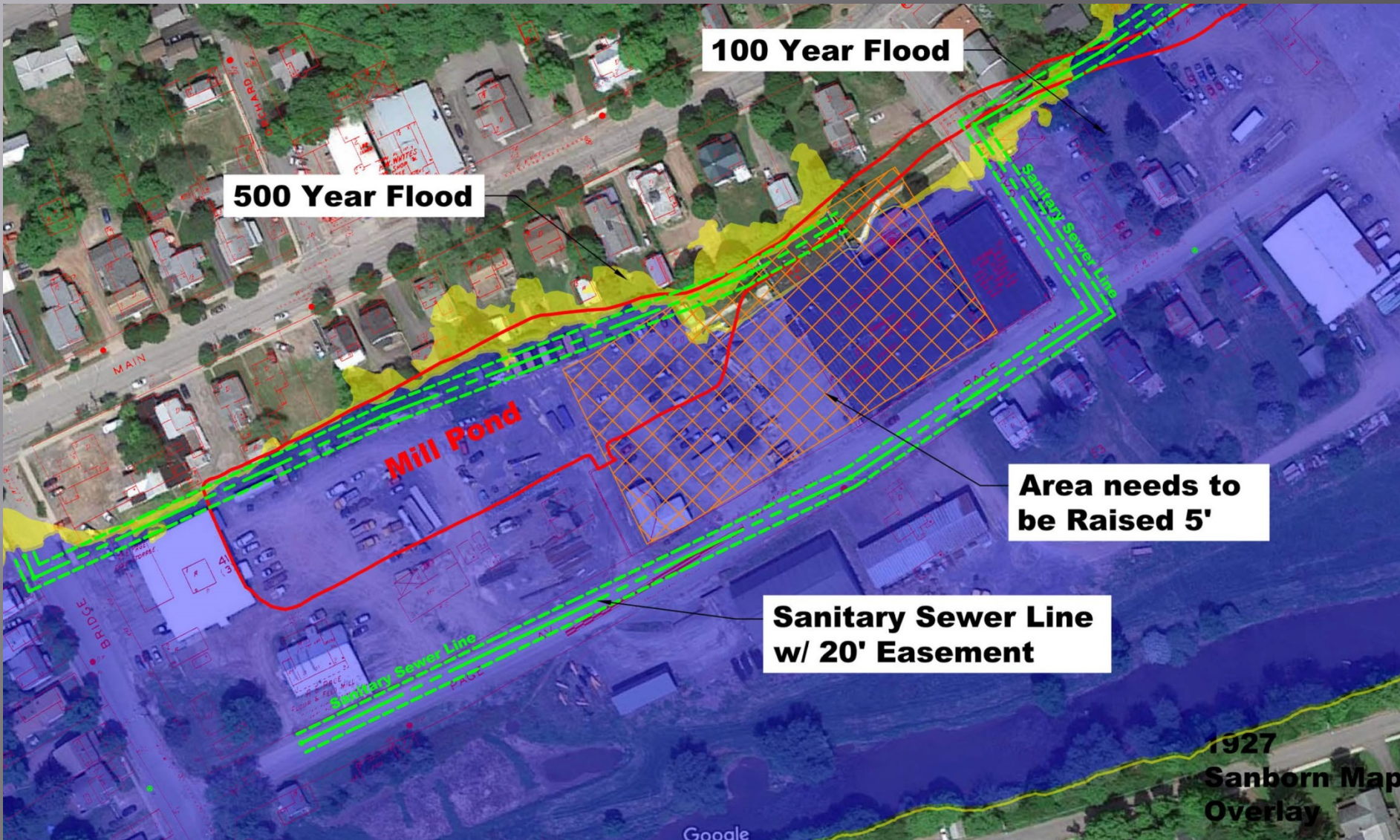
Minimize proposed building footprint and increase mitigation area

- ▣ Storing some equipment in an off-site fenced storage area
- ▣ Relocate salt shed, skeleton building, & hopper hanger off site

- ▣ **Properties in Delhi Vicinity**
 - Lack of suitable land
 - Unstaffed/unsecure locations

- ▣ **Solid Waste Management Center (SWMC)**
 - Minimal land suitable
 - Lost travel time
 - Walton patrol considerations

Issues with Current Site





01/10/2010

25 Year Storm Event



01/10/2010















YOUR MOUTH
NOT YOUR
CLEAN UP
YOURSELF

KEEP AREA
CLEAN OR
CLEAN UP
YOURSELF

ACE







COUNTY OFFICES
DEPARTMENT OF
PUBLIC WORKS
PLANNING BOARD
UPSTAIRS



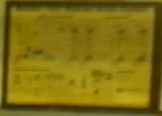




EXIT



KEEP AREA
CLEAR OR
KEEP OUT







Current Site Restrictions

- ▣ In the 100 year flood zone
 - New building will impact flooding
- ▣ Old Mill pond
 - Needs to be excavated and filled with suitable material
- ▣ Sewer easement
 - Limits our area of expansion
- ▣ Large area needs to be raised
 - Flood restriction, building accessibility problems
- ▣ Off site storage
 - Costly, will affect the logistics of DPW activities

Current Site Restrictions

- ▣ 2013 County All Hazard Mitigation Plan Update
 - Implement mitigation activities to protect people and infrastructure from flooding hazards
 - Prioritize and implementation of mitigation strategies or projects designed to benefit essential facilities
 - Relocate the County DPW Main Shop out of the floodplain

Current Site Restrictions

- ▣ Delaware County Soil and Water working diligently with local Flood Commissions to make the communities more flood resilient
- ▣ County Bridge standards increased to make the County system more flood resilient
- ▣ Executive Order 13690 prevents federal funding from being used for siting of facilities in floodplains wherever there is a practicable alternative

Current Site Restrictions

- ▣ After evaluation of various building options & current site restrictions, the present site was deemed unpractical and uneconomical for future development

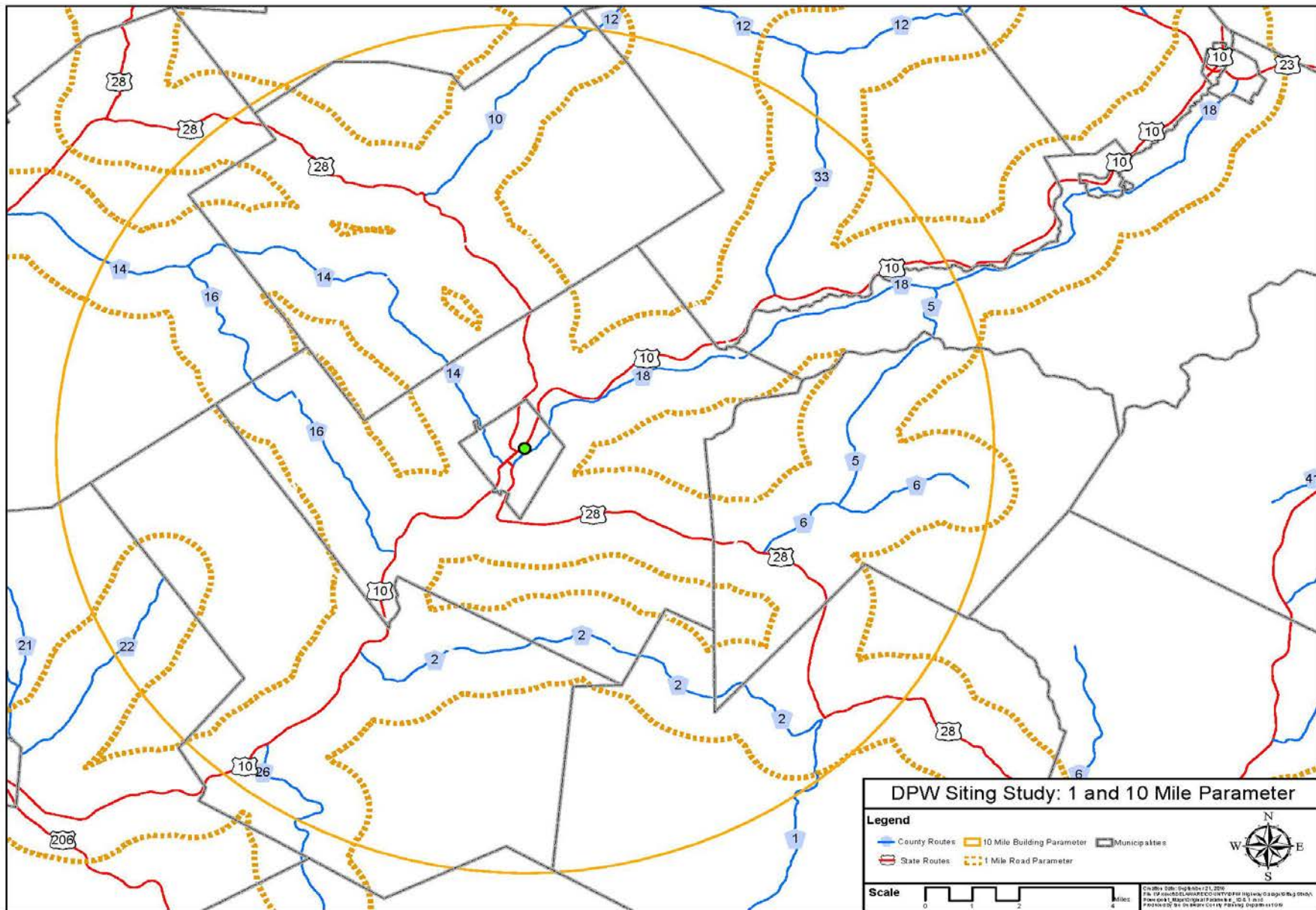


Google

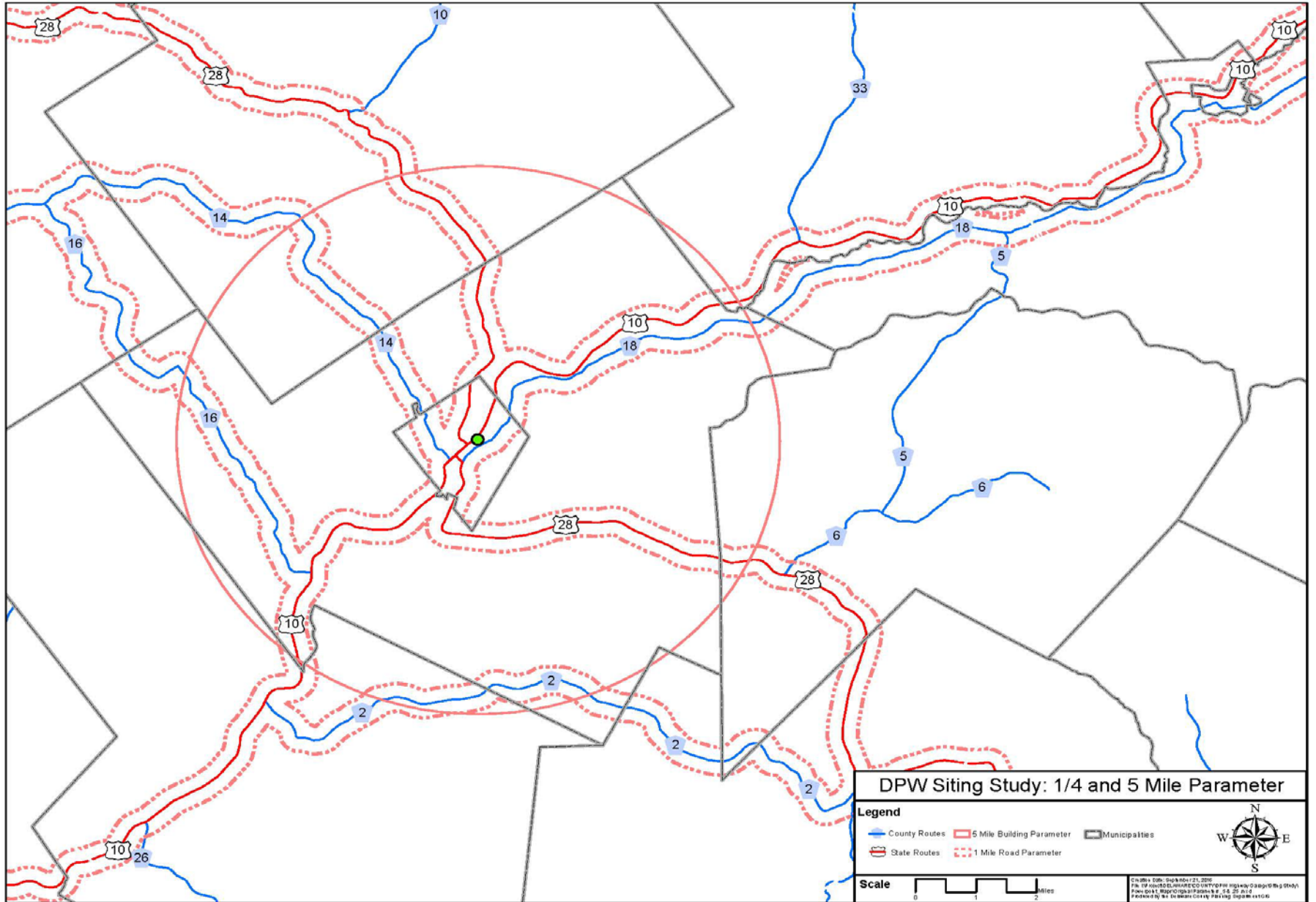
Search for a New Site

- ▣ Delaware County Highway Committee asked the Planning department to establish a search criteria to find suitable sites in the local area.
- ▣ Original siting study criteria
 - 10 mile radius from Delhi
 - 1 mile from State or County Highway
 - 25 Acre lot size minimum
- ▣ The search criteria was then modified to:
 - 5 Mile Radius from Delhi
 - ¼ Mile from State/County Rd
 - Include 15-25 Acre lots along with 25 Acres and greater.
- ▣ A field visit was than performed on the top 3 sites

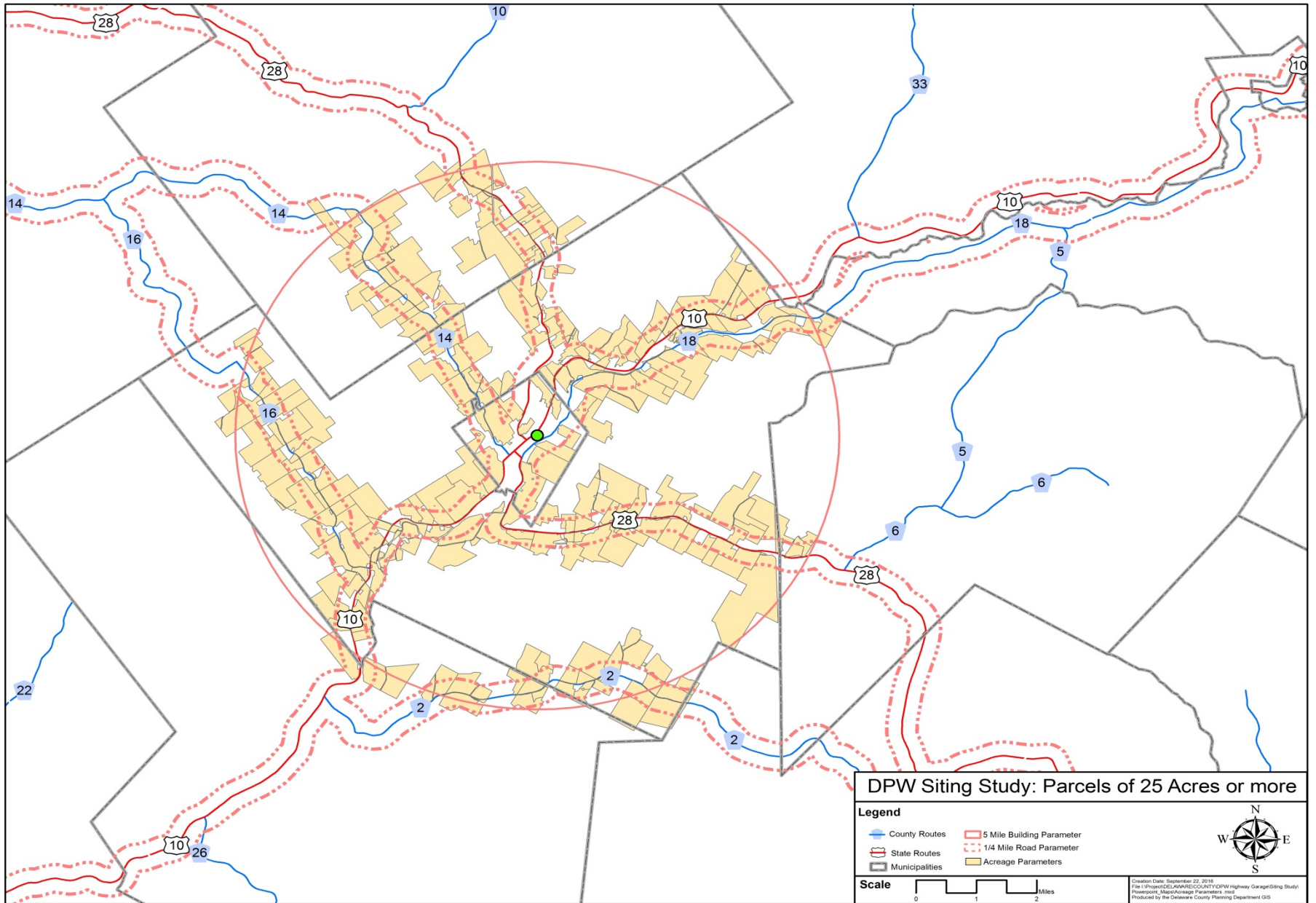
Original Parcel Selection Parameters: 10 miles and 1 mile



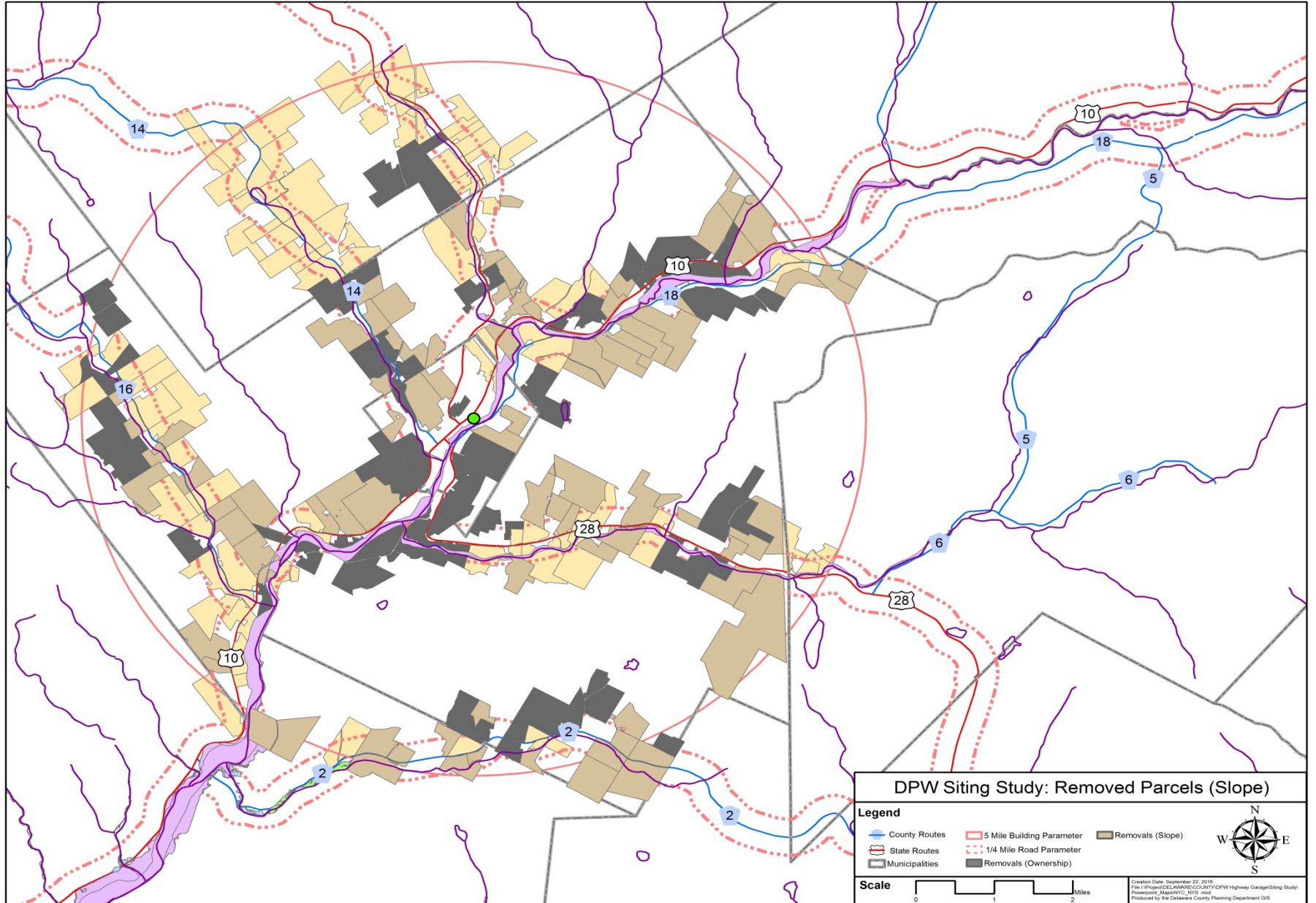
Revised Parcel Selection Parameters: 5 miles and 1/4 mile



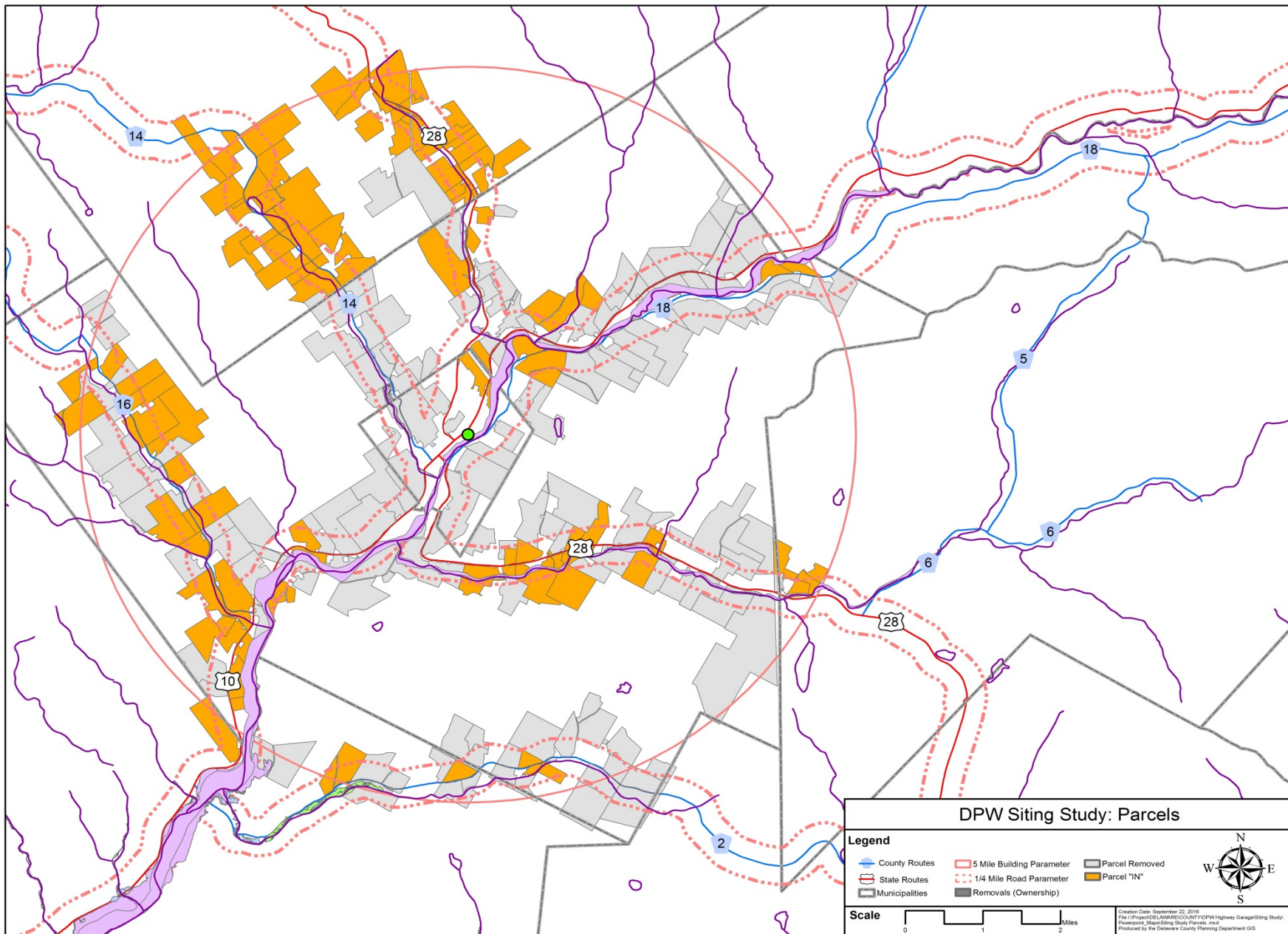
Parcel Identified with Acreage Parameter



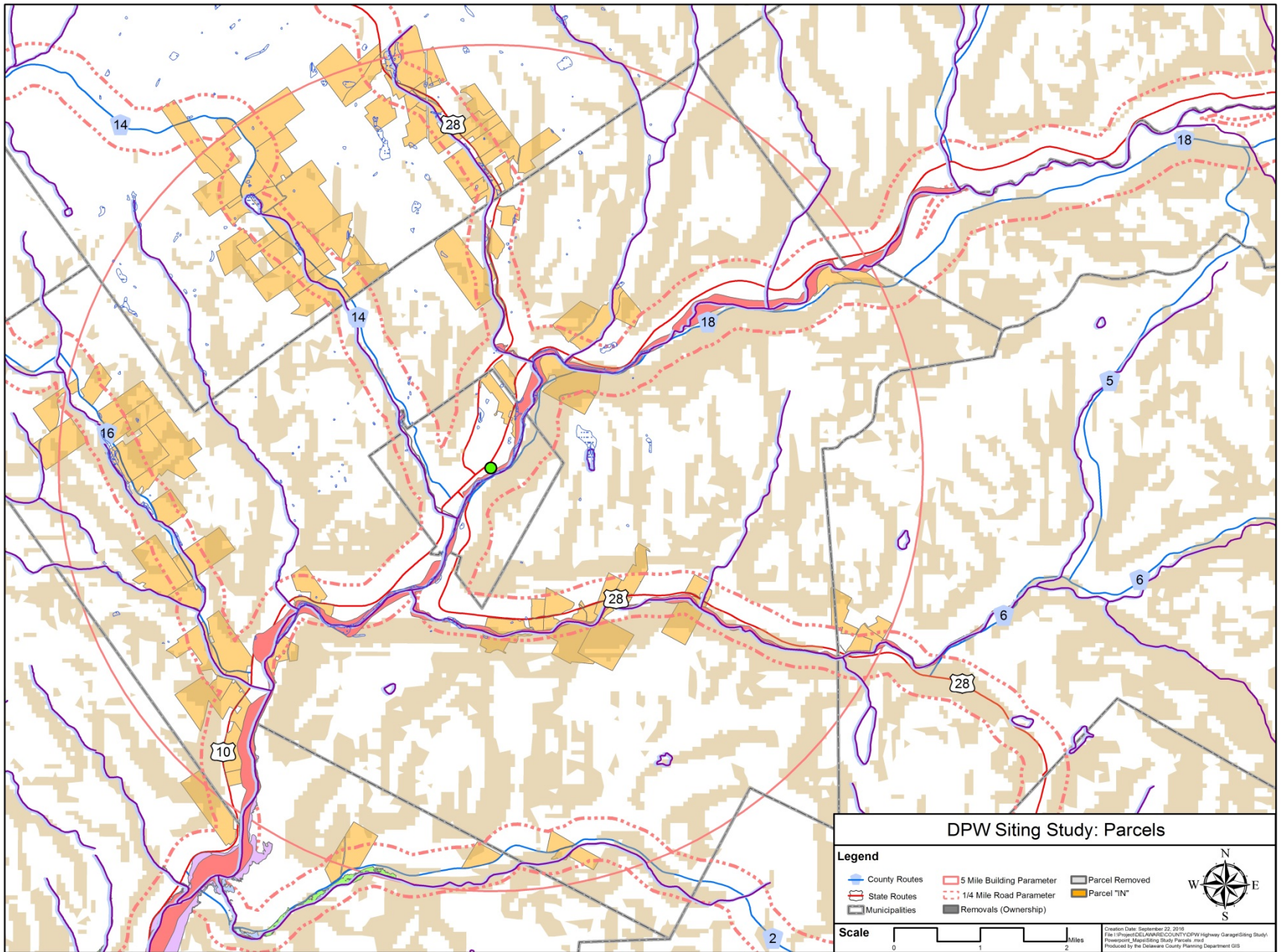
Parcel Removed by Ownership and Slope Limitations



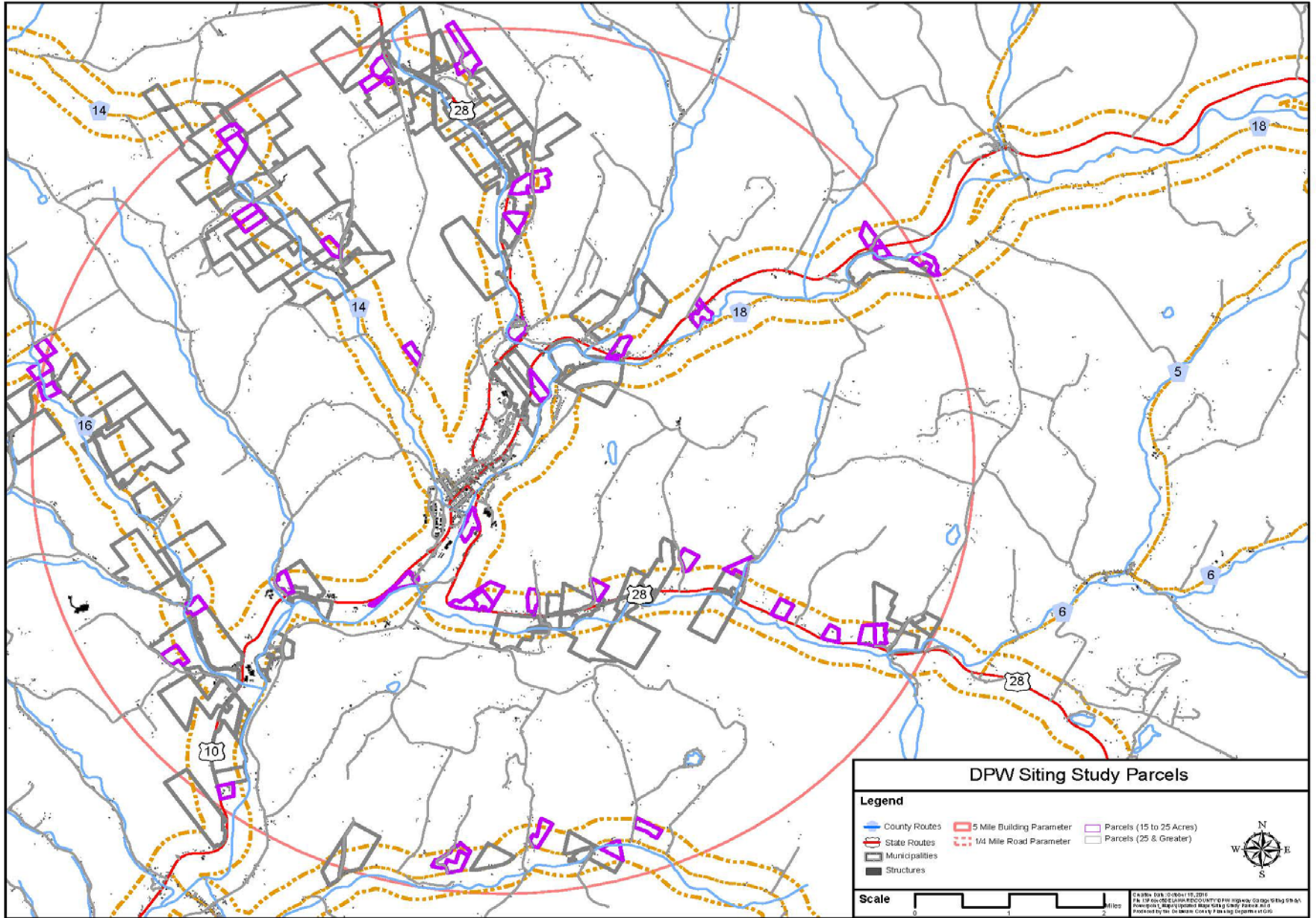
Parcels IN & Removed Results



Preliminary Parcel Findings



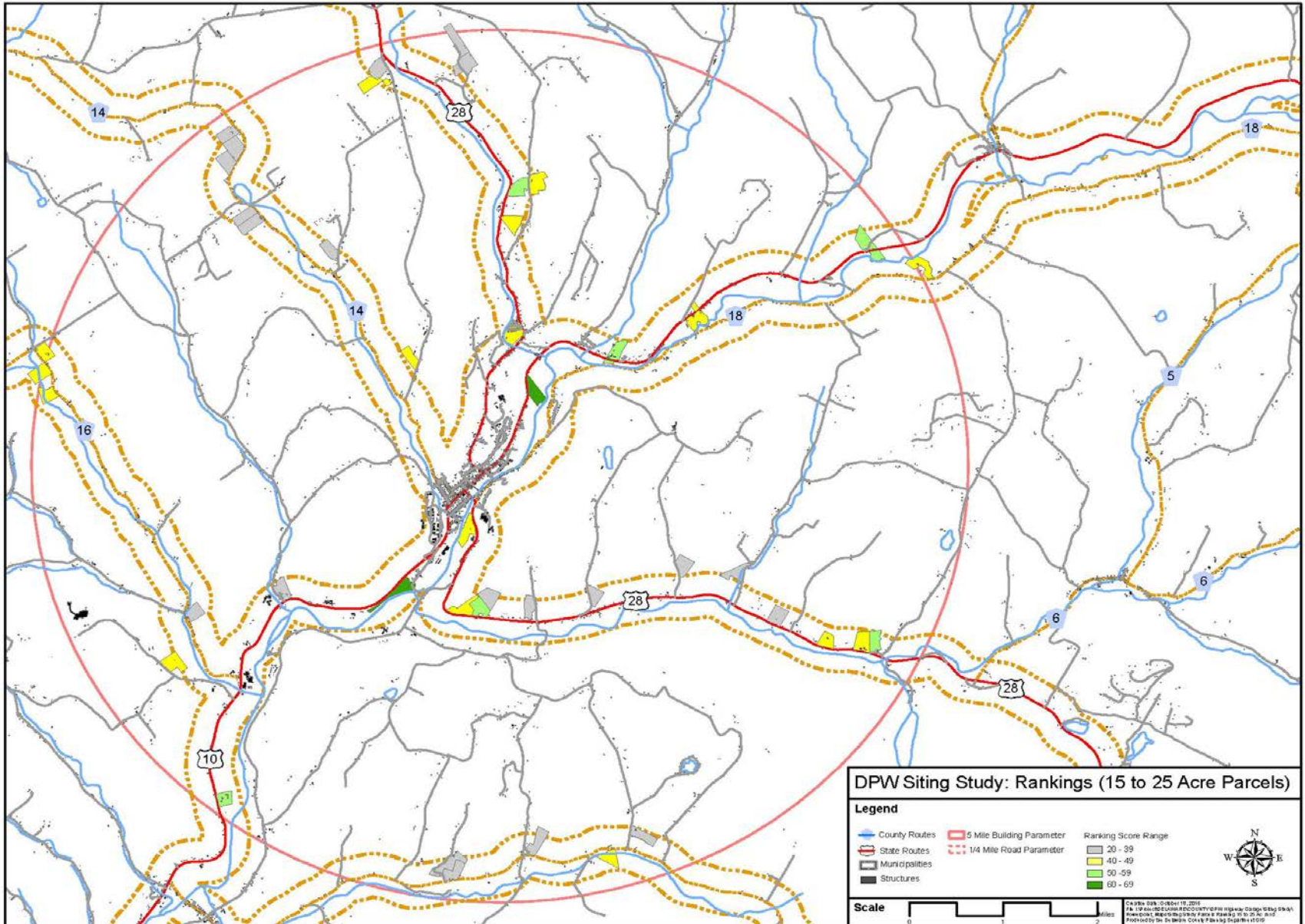
DPW Siting Study Parcels: Acreage Parameters



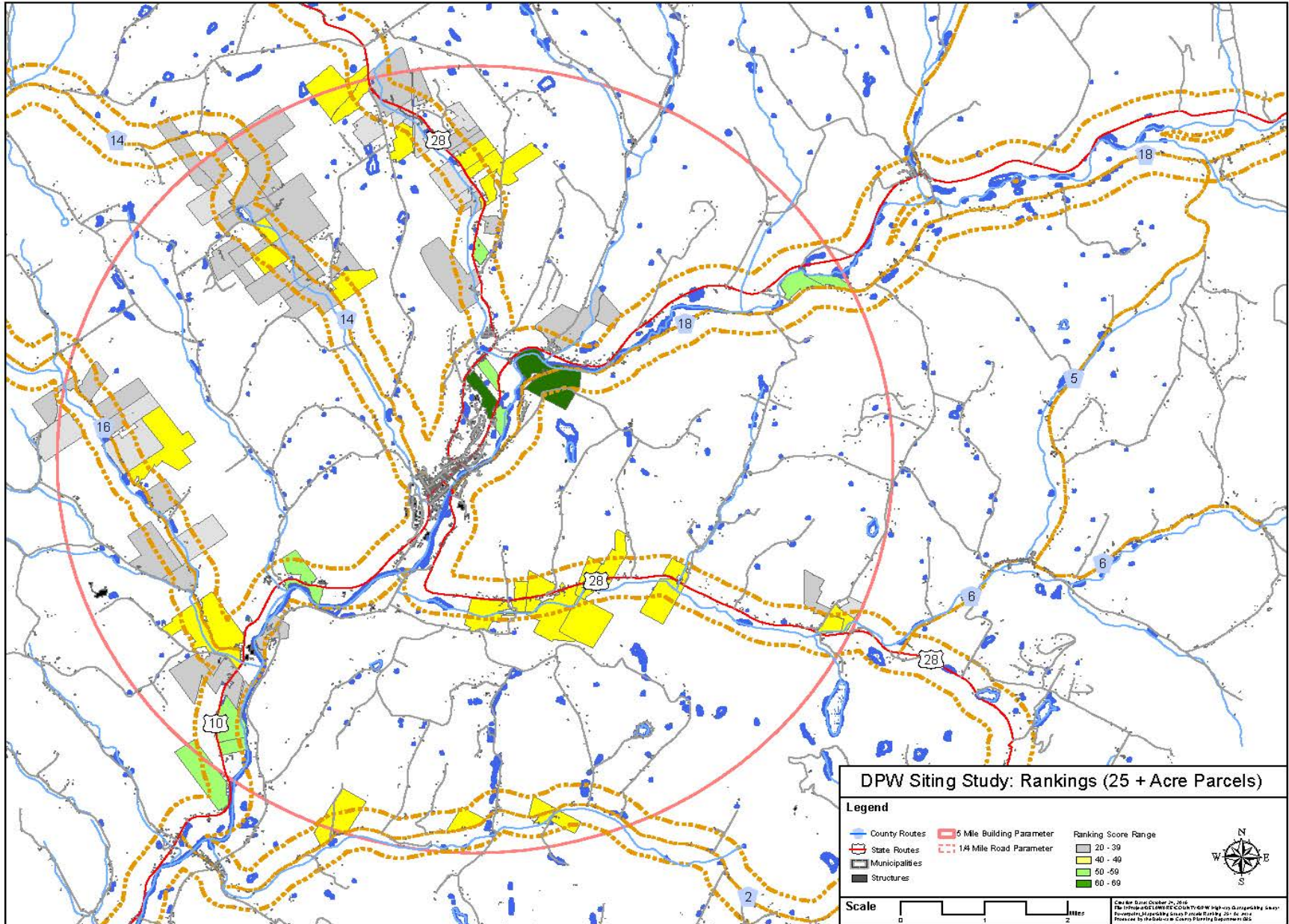
Ranking Matrix Parameters

Description	Weight
Access - Directly to Site	10
3 Phase Power	10
Soils - Construction and Sanitary System	8
Access - During Flood Events	10
Access - Along Routes to Site for Tractor Trailers	10
Municipal Water	5
Municipal Sewer	5
Aquifer Possibilities	7
On-Site Grades	6
Existing Site Use - Occupied/Unoccupied	5
Existing Buildings On-Site - Demo/Usable	5
Benefits to Community	6
Proximity to Existing facility during Transition	5
Fiber for Computers/Phone	9

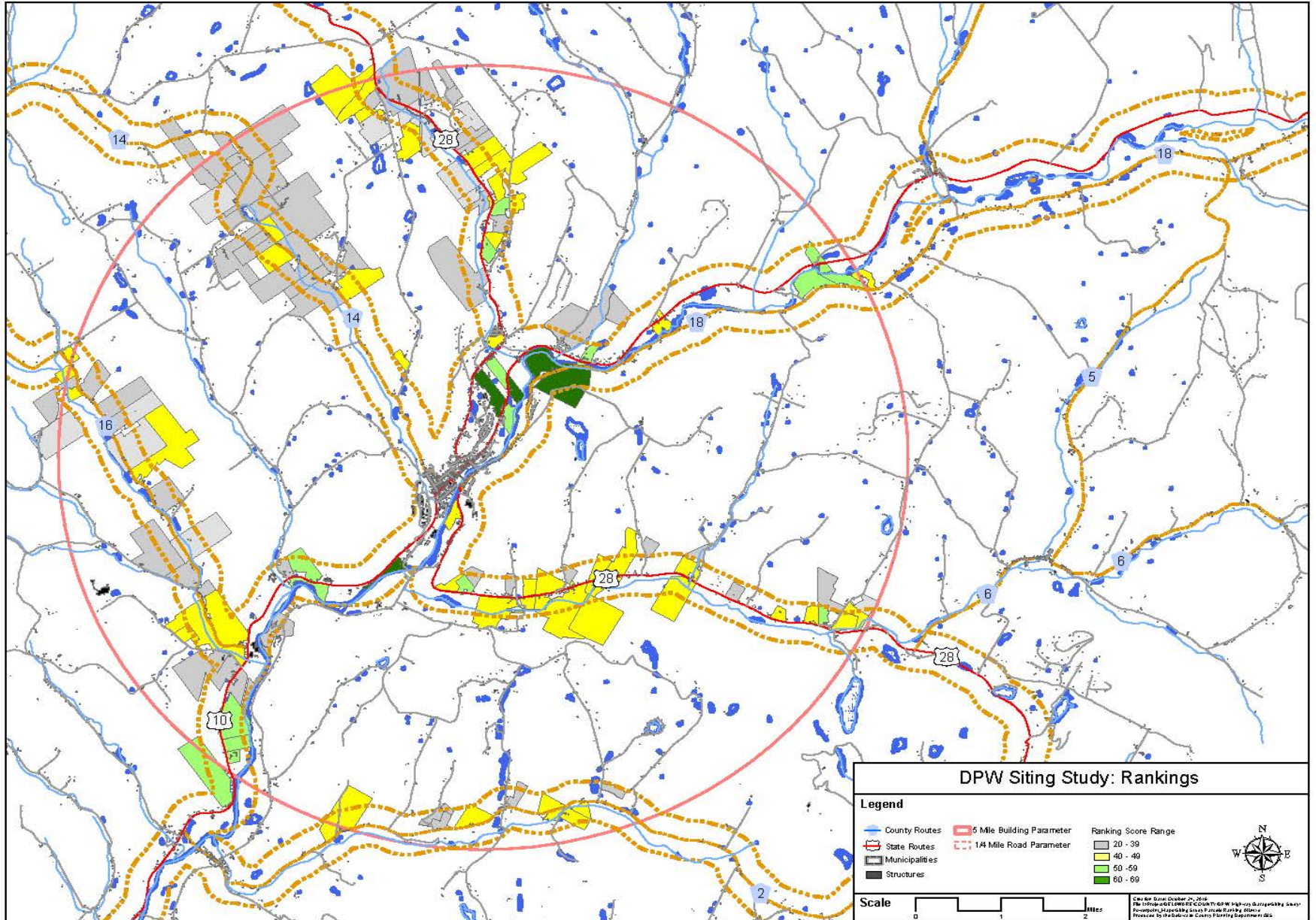
DPW Siting Study Parcels: 15 to 25 Acre Rankings



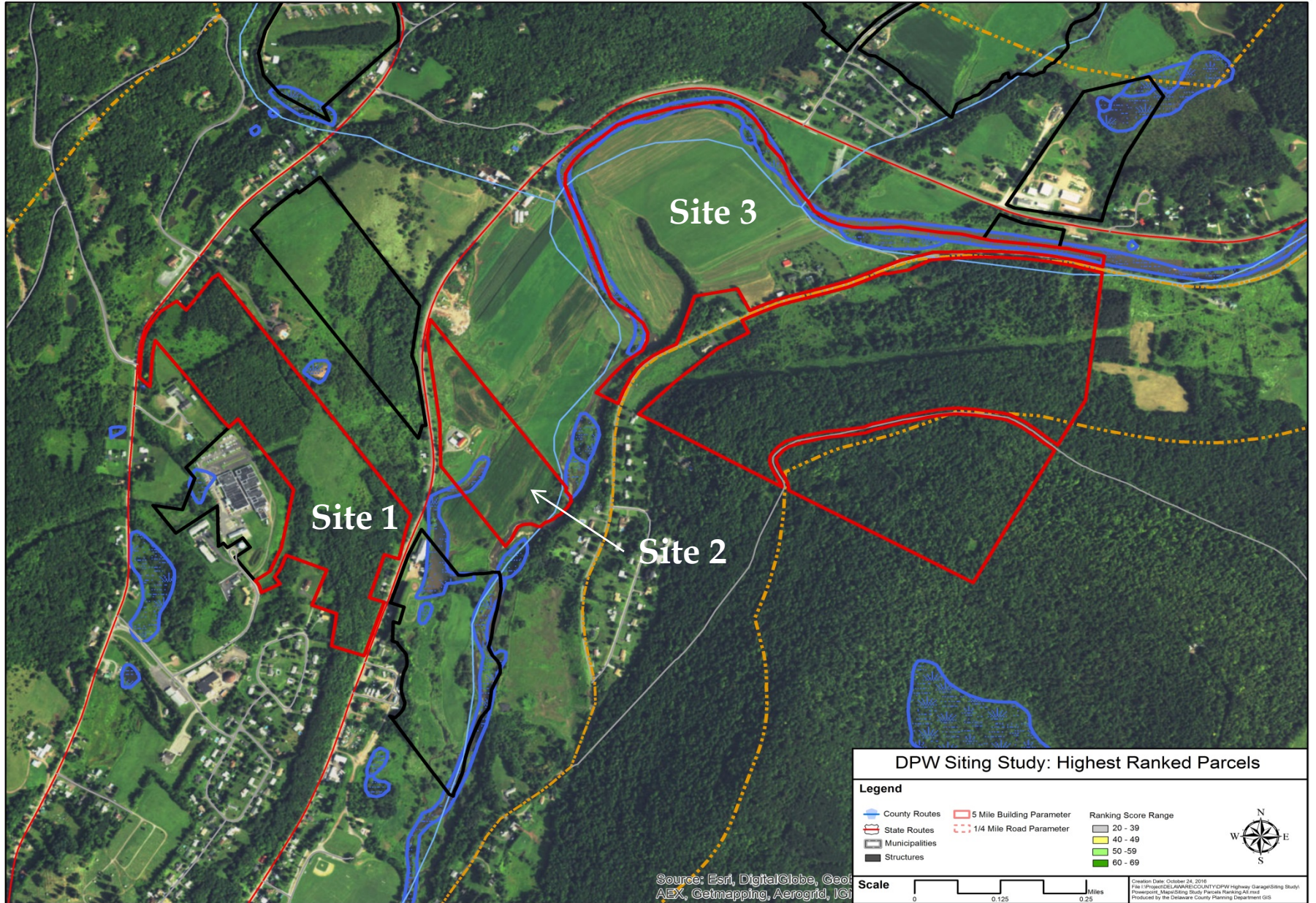
DPW Siting Study Parcels: 25+ Acre Rankings



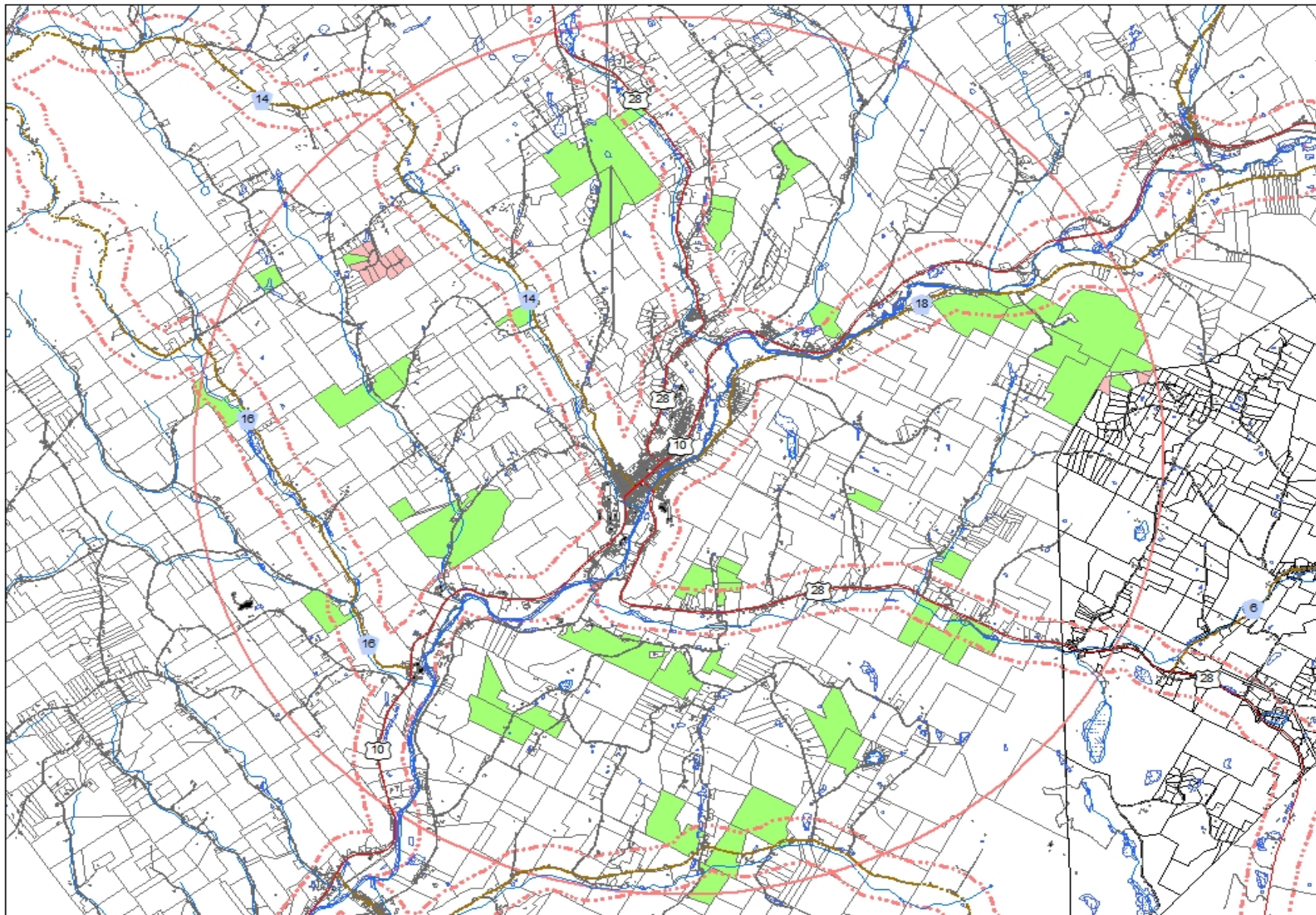
DPW Siting Study Parcels: All Rankings



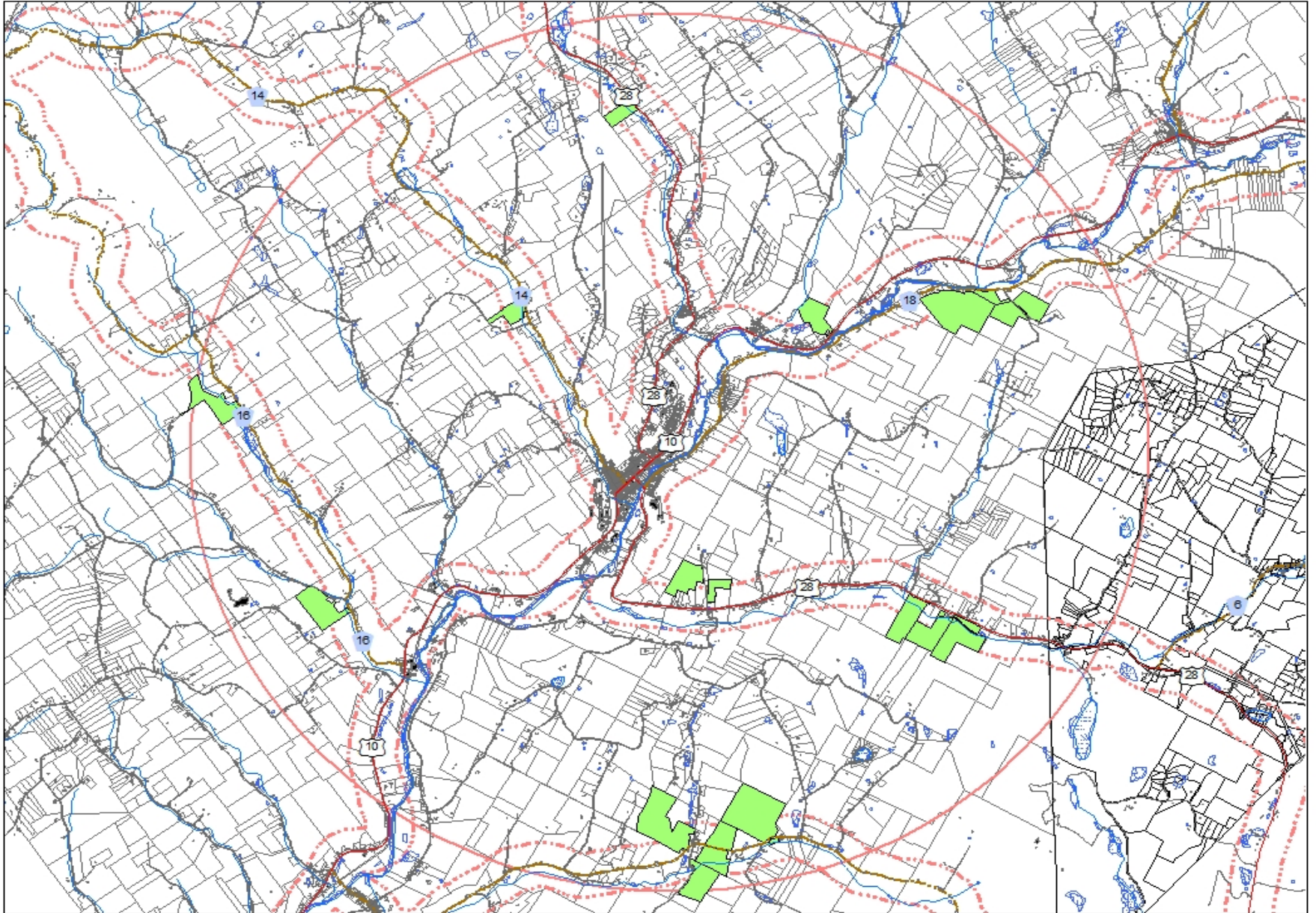
Top Ranked Sites: Aerial



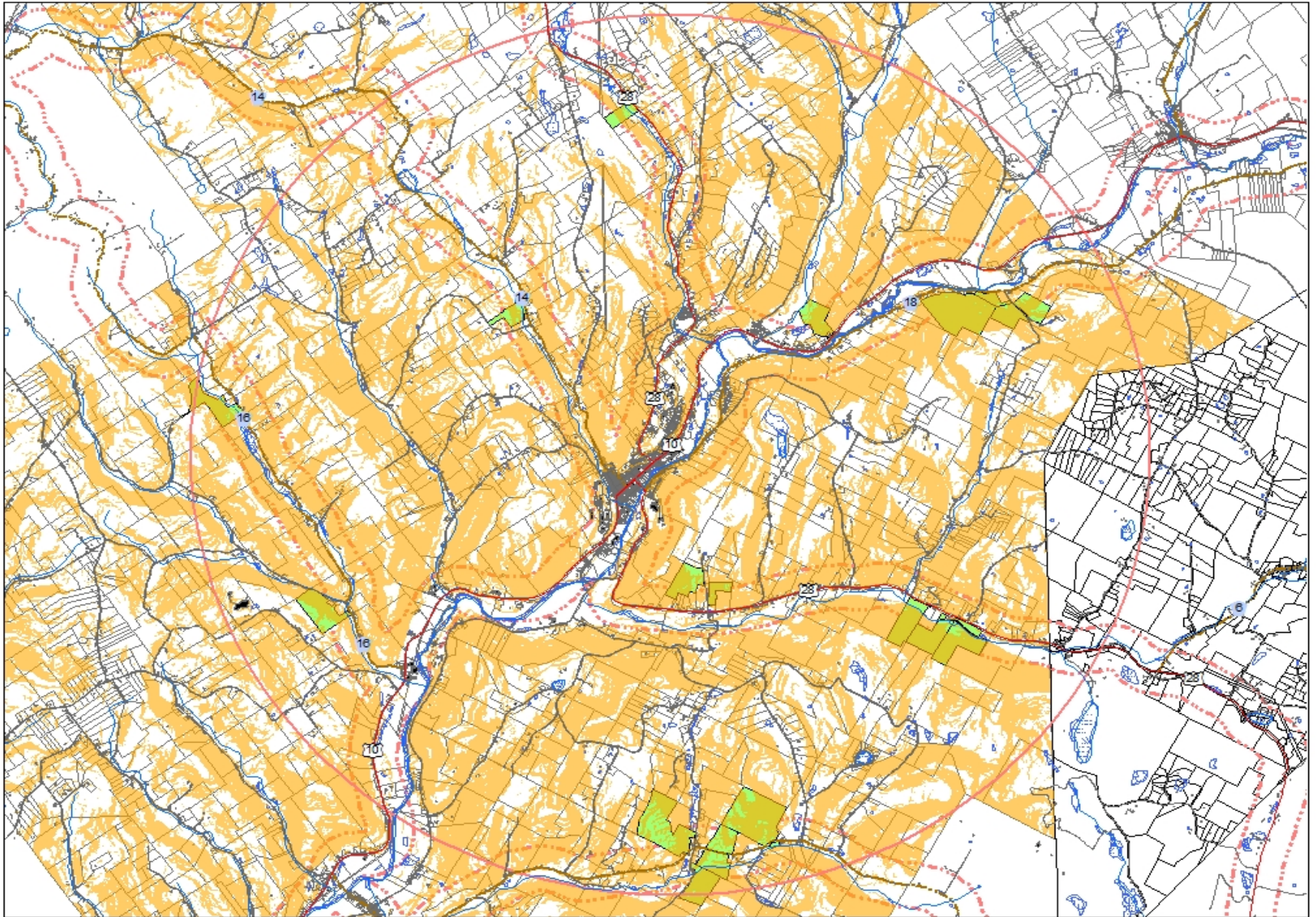
DPW SITING STUDY: NYC LAND REVIEW



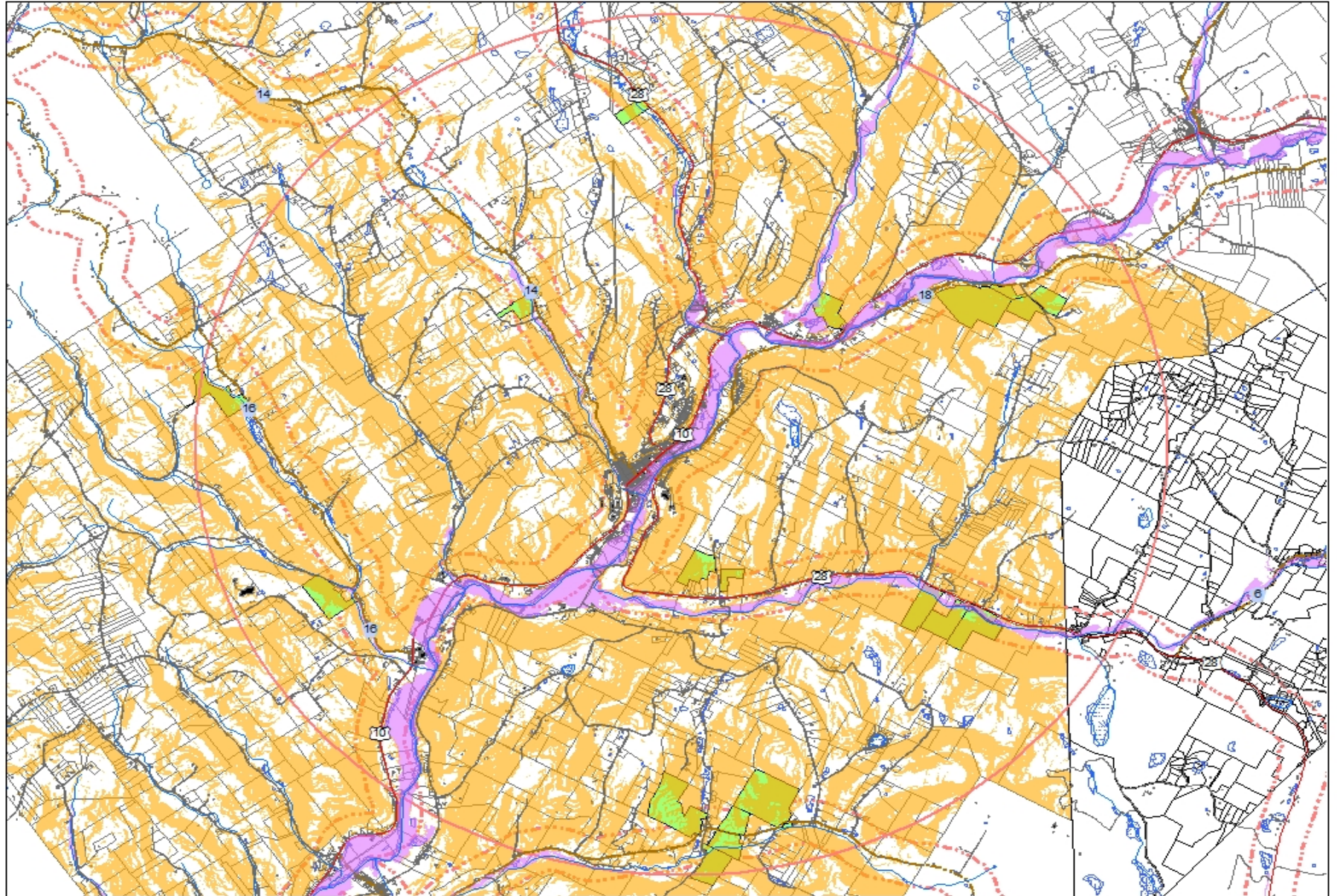
DPW SITING STUDY: DISTANCE CRITERIA



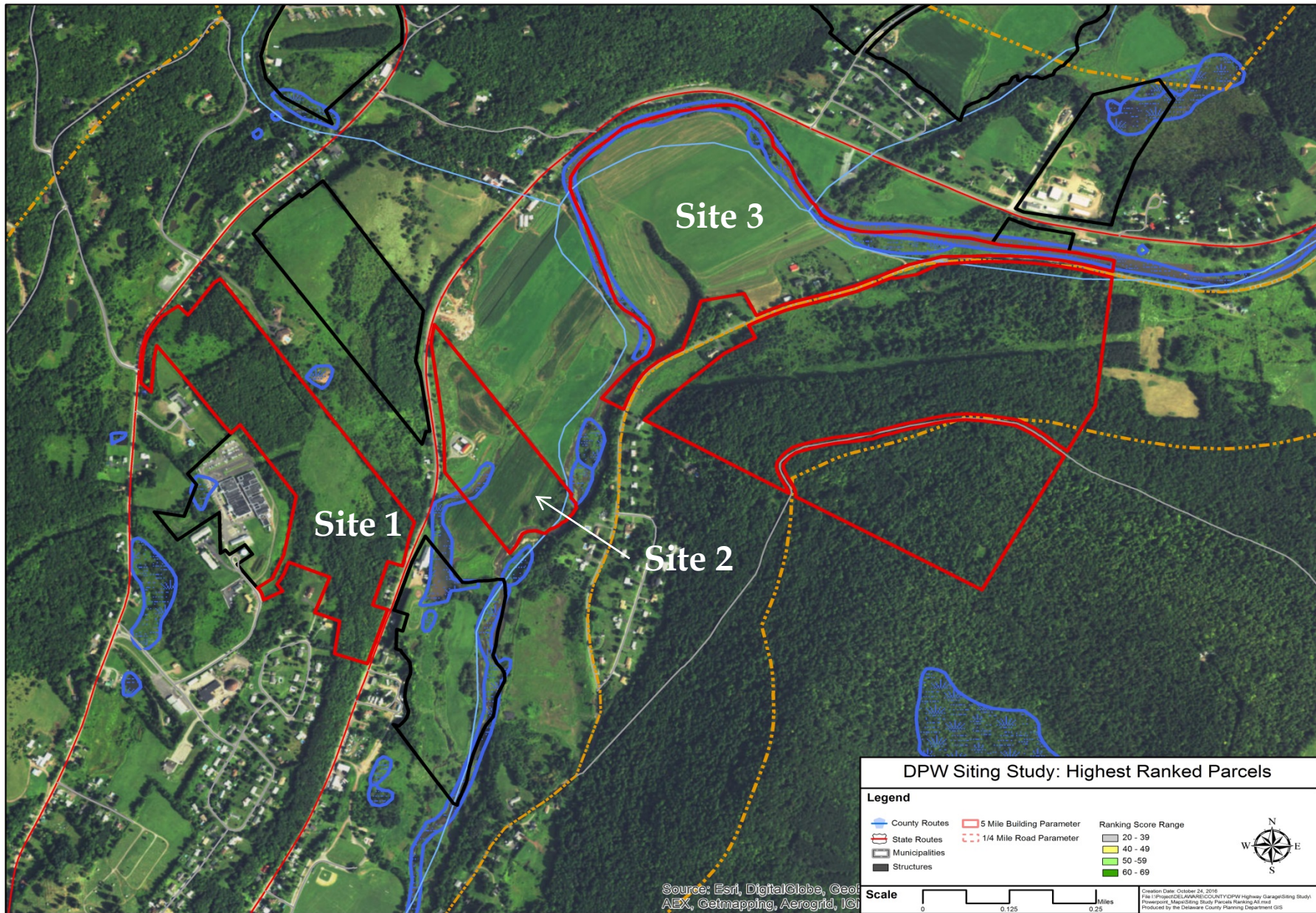
DPW SITING STUDY : NYC RESULTS



NYC LAND SITING STUDY REVIEW



Top Ranked Sites: Aerial



Site 3 County Route 18 Property



Source: Esri, DigitalGlobe, GeoEye, I-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



TOTAL PARCEL
AREA 213.506
ACRES

DELAWARE COUNTY D.P.W.

DELAWARE COUNTY DPW
CR-18 LOT

AERIAL MAP

DATE: 9/2016	SCALE: NTS	SHEET: 2 OF 7
-----------------	---------------	------------------



100 YEAR FLOOD ZONE

500 YEAR FLOOD ZONE

DELAWARE COUNTY D.P.W.

DELAWARE COUNTY DPW
CR-18 LOT

FLOOD ZONE MAP

DATE:
9/2016

SCALE:
NTS

SHEET:
4 OF 7

FARMLAND 27± ACRES

PERVIOUS AREA 15.5± ACRES

**IMPERVIOUS AREA
7.5 ± ACRES**

**PERVIOUS AREA
3.5± ACRES**

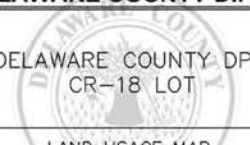
**UNDISTURBED
RESIDENTIAL AREA
7.75± ACRES**

DELAWARE COUNTY D.P.W.

DELAWARE COUNTY DPW
CR-18 LOT

LAND USAGE MAP

DATE: 9/2016	SCALE: NTS'	SHEET: 5 OF 7
-----------------	----------------	------------------





PROPOSED BRIDGE (SHOWN @ 140LF)

PROPOSED ROAD (≈1600LF)

CR-18

DELAWARE COUNTY D.P.W.

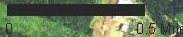
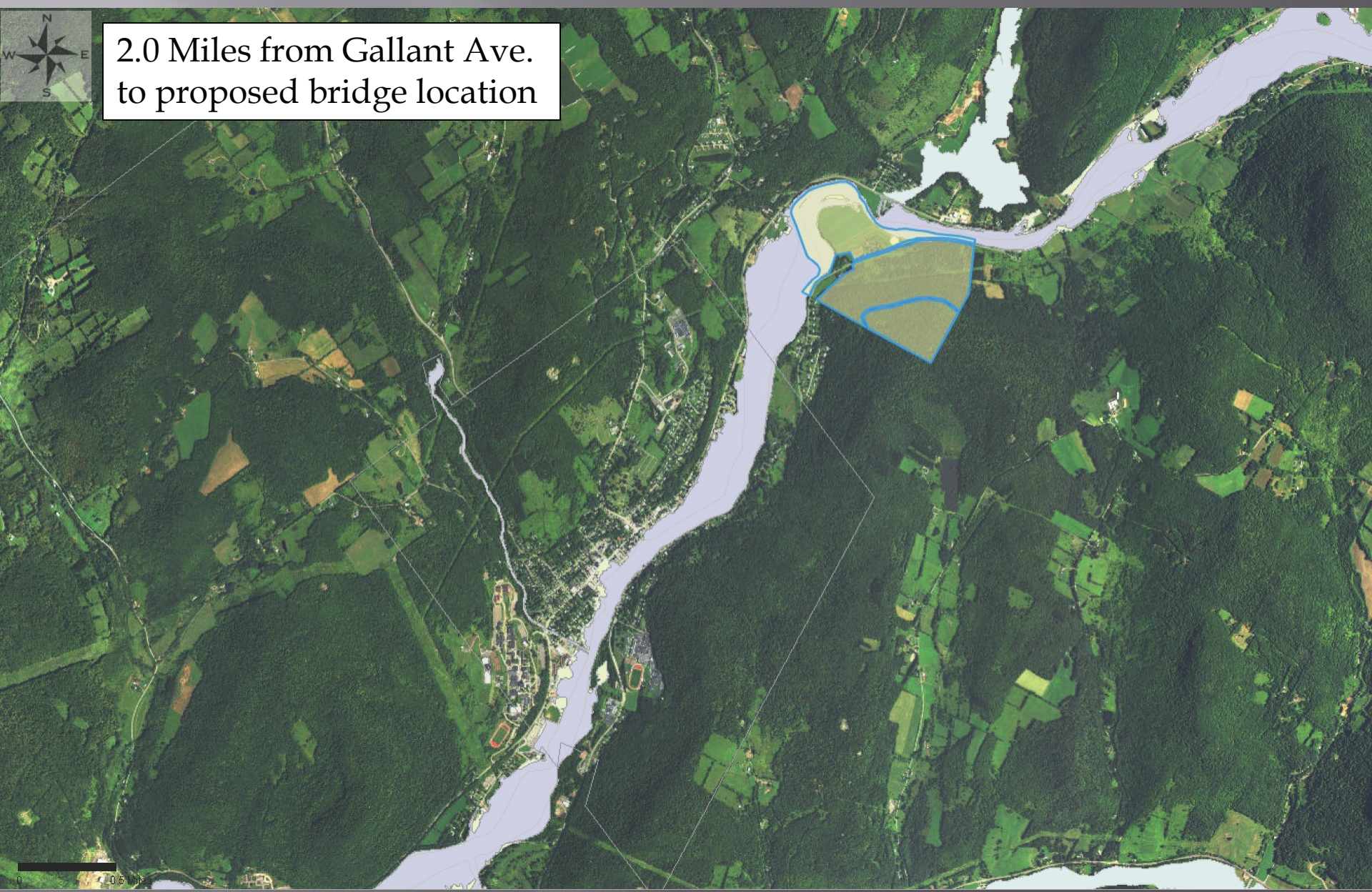
DELAWARE COUNTY DPW
CR-18 LOT

ROAD PLAN

DATE: 9/2016	SCALE: NTS'	SHEET: 7 OF 7
-----------------	----------------	------------------



2.0 Miles from Gallant Ave.
to proposed bridge location



FUNDING

Contributions to Project

- ▣ Machinery \$2,000,000
- ▣ Road \$3,500,000
- ▣ Capital \$6,000,000
- Sub-Total \$11,500,000

- ▣ CHIPS
 - Rollover \$ 962,608
 - 2017/2018 \$2,120,468
- Sub-Total \$3,083,076

TOTAL CONTRIBUTIONS \$14,583,076

Estimated Costs

- ▣ Property 213 acres - \$1,395,000 (listed) = \$6550/acre
- ▣ Road connecting CR 18 to SR 10 - \$510,000
- ▣ Bridge across W.Br. Del. River - \$4,000,000
- ▣ Salt Shed - \$400,000 (later date)
- ▣ Admin/Engineering/Planning Bldg - (later date)
- ▣ Pole Barn/Lewis Bldg - (later date)
- ▣ Maintenance Building - \$12,500,000
- ▣ Septic - \$135,000
- ▣ Well - \$205,000
- ▣ Stormwater - \$55,000
- ▣ Site Development - \$750,000
- ▣ Fuel Depot - (later date)
- ▣ Soft Costs - \$3,678,000

- ▣ TOTAL ESTIMATED COST \$23,228,000

Totals

FUNDING CONTRIBUTION

\$14,583,076

TOTAL COST OF PROJECT \$23,228,000

TOTAL AMOUNT REMAINING \$8,644,924

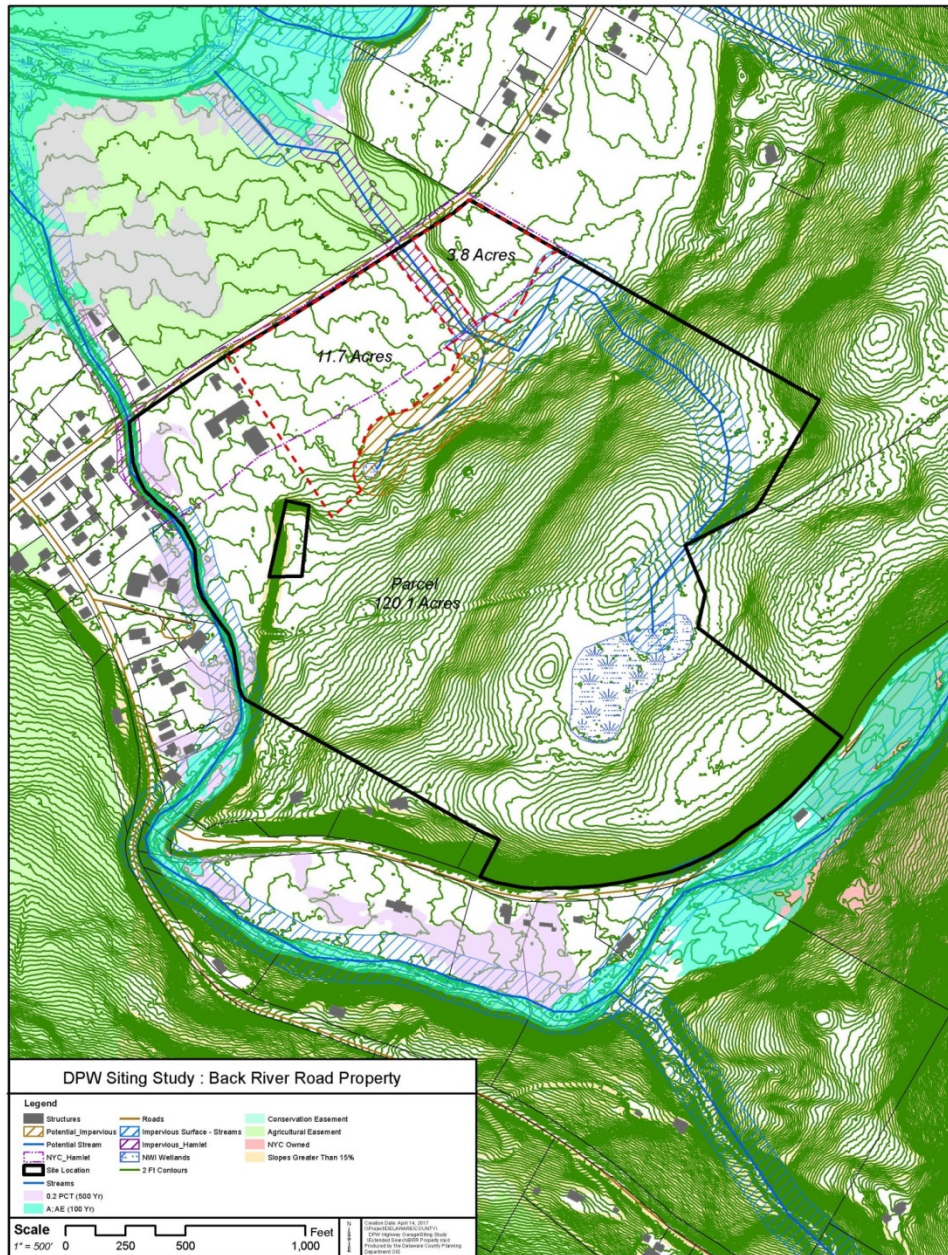
(Assumes NO Outside Funding for Project)

DPW Siting Study
Expanded Parcel Search

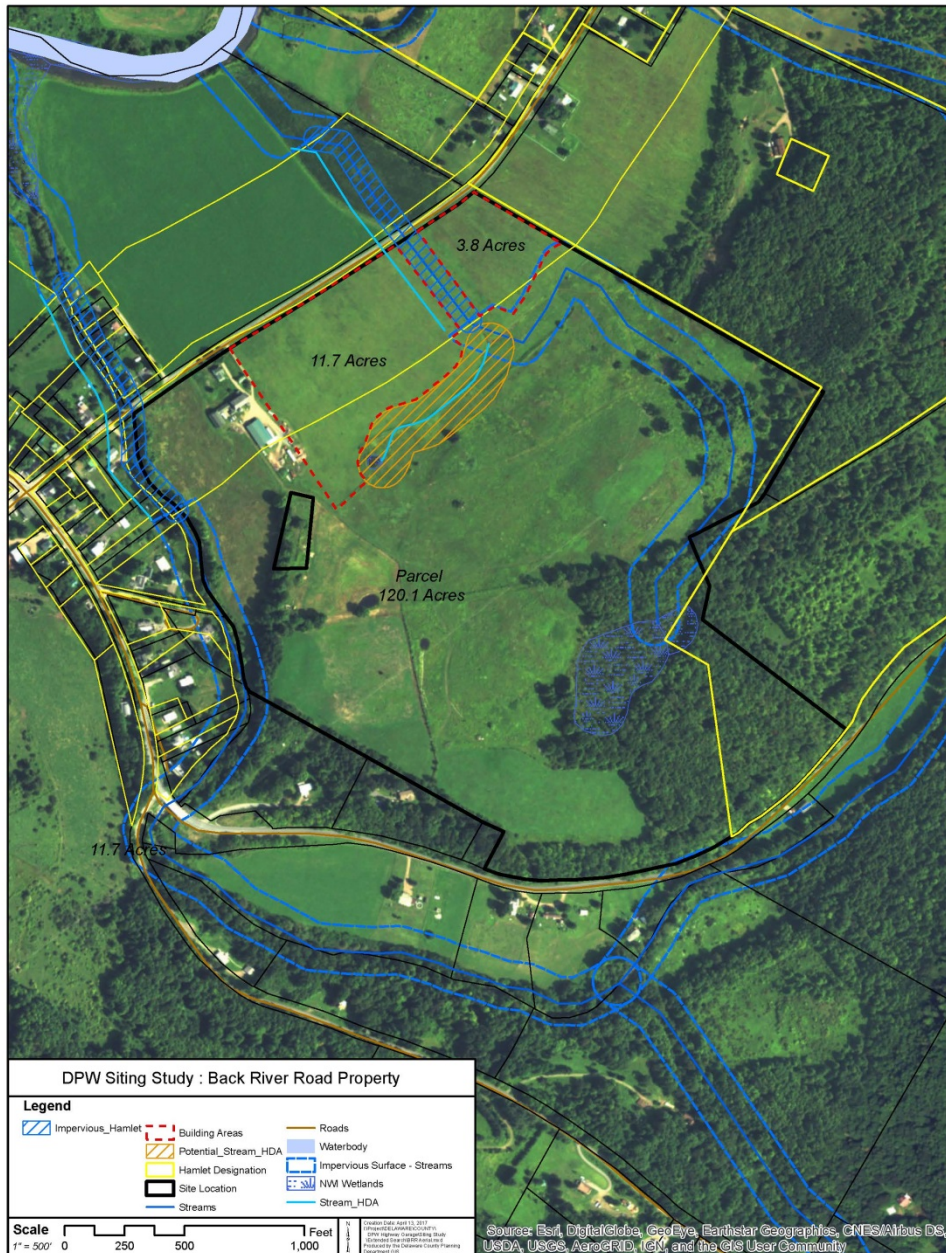
(Volunteered Parcels)

April 26, 2017

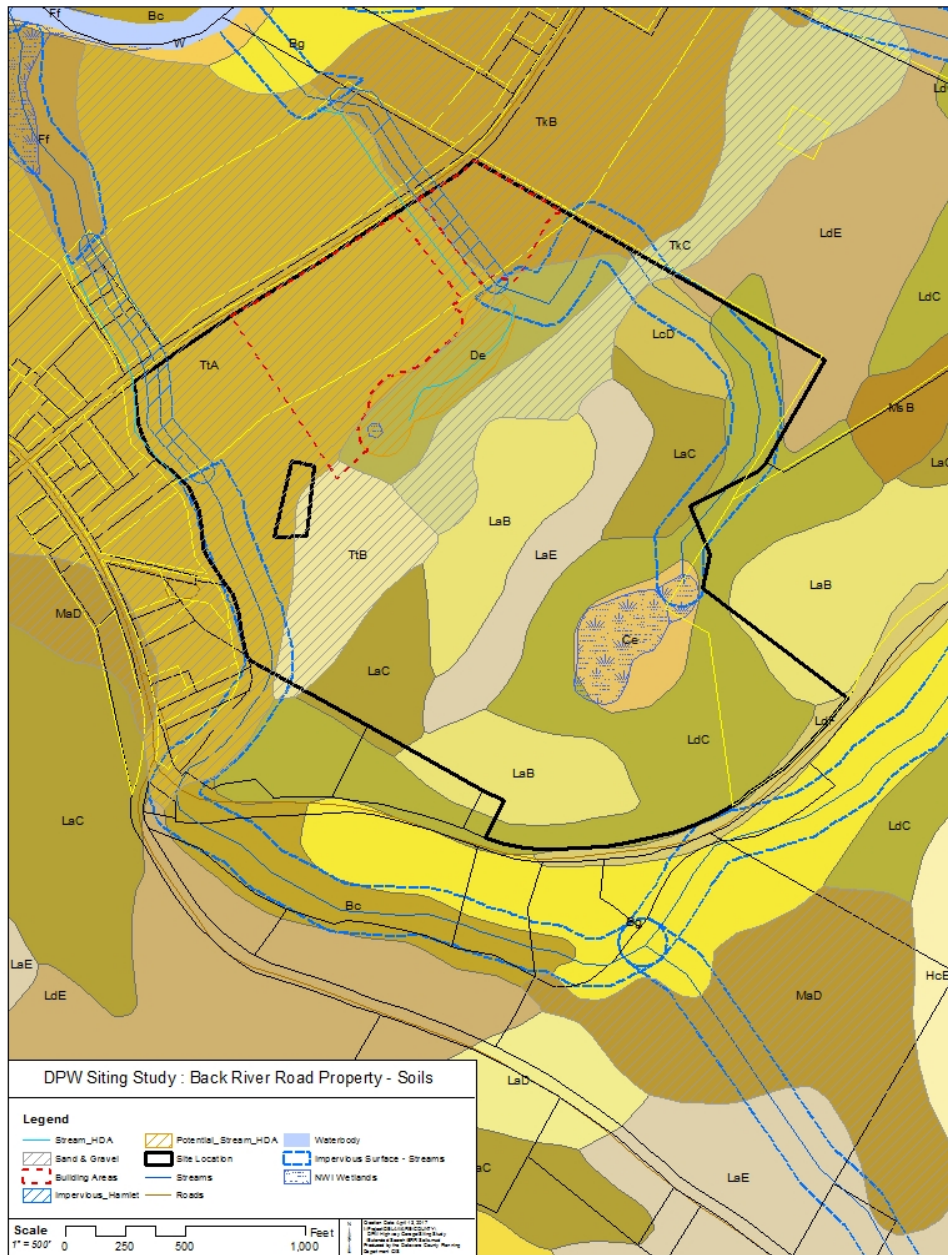
Back River Road Property



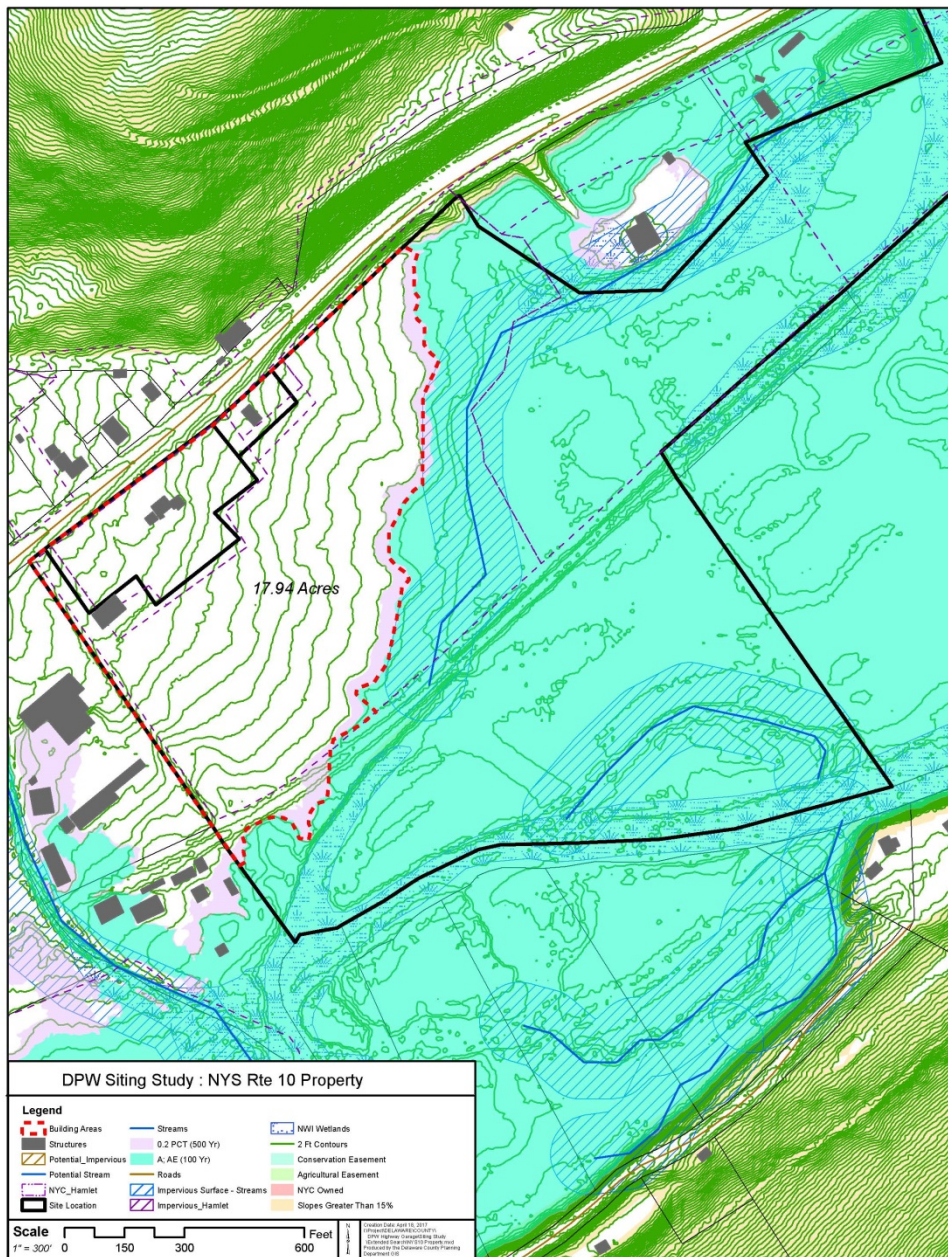
Back River Road Property - Aerial



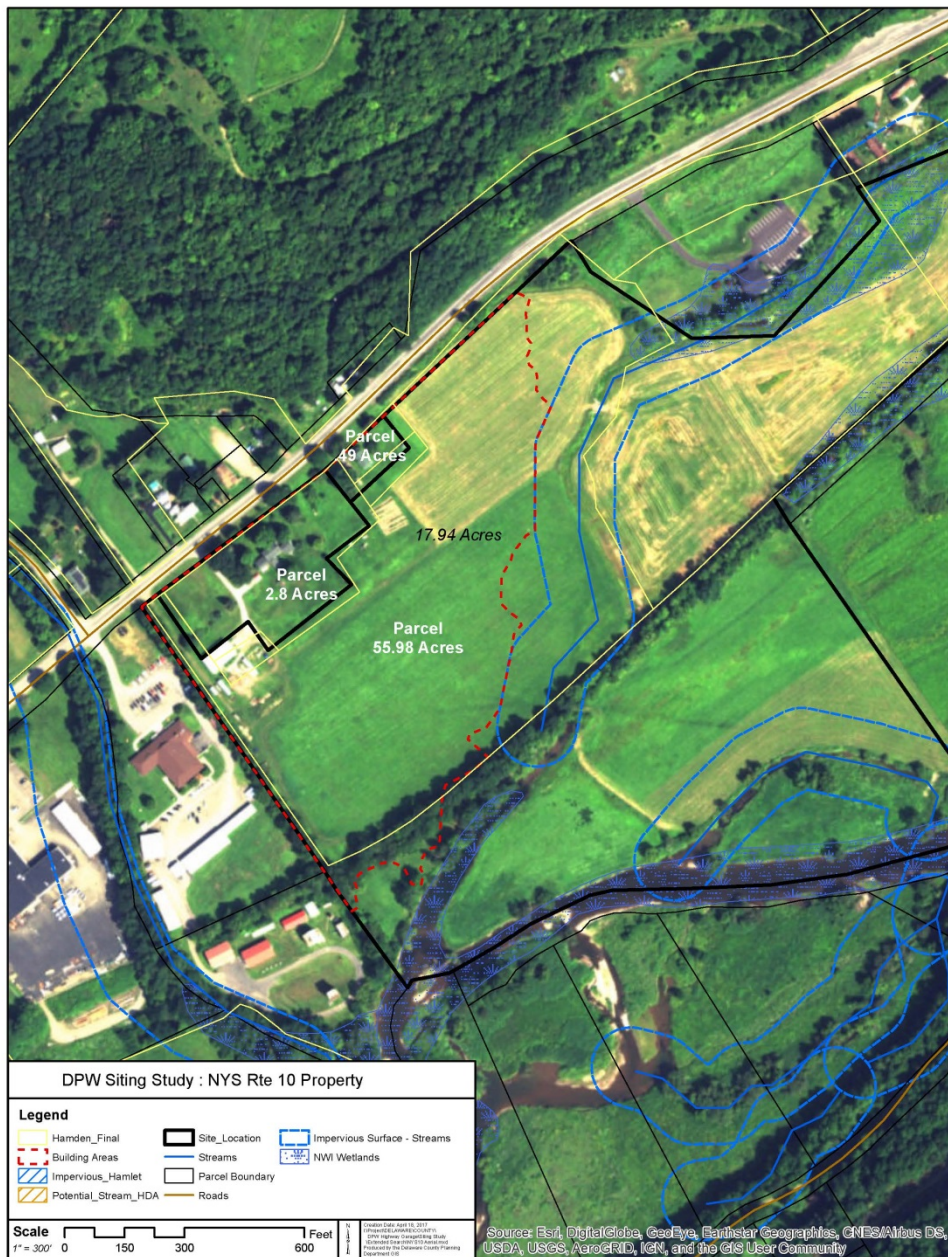
Back River Road Property - Soils



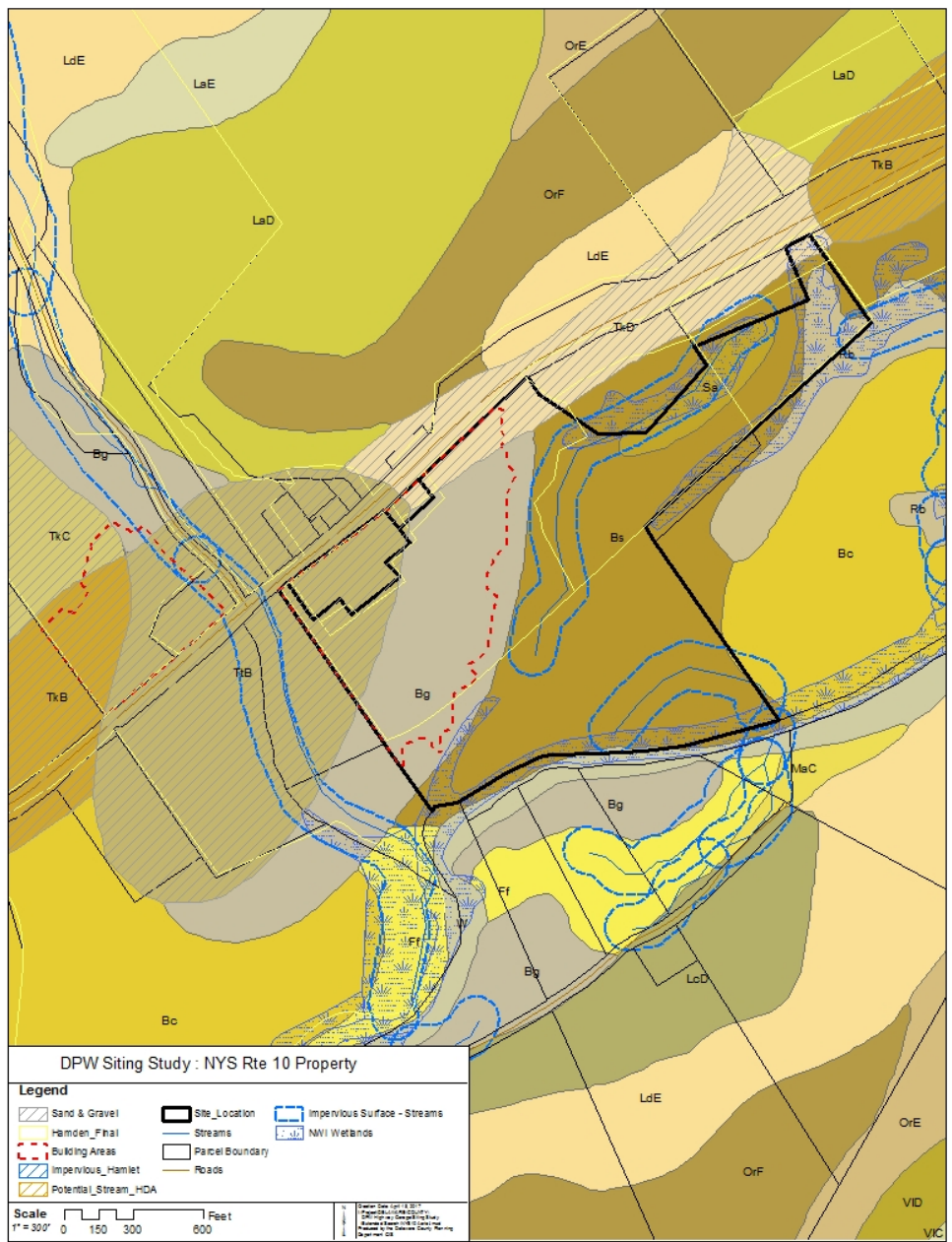
NYS Route 10 Property - Soil



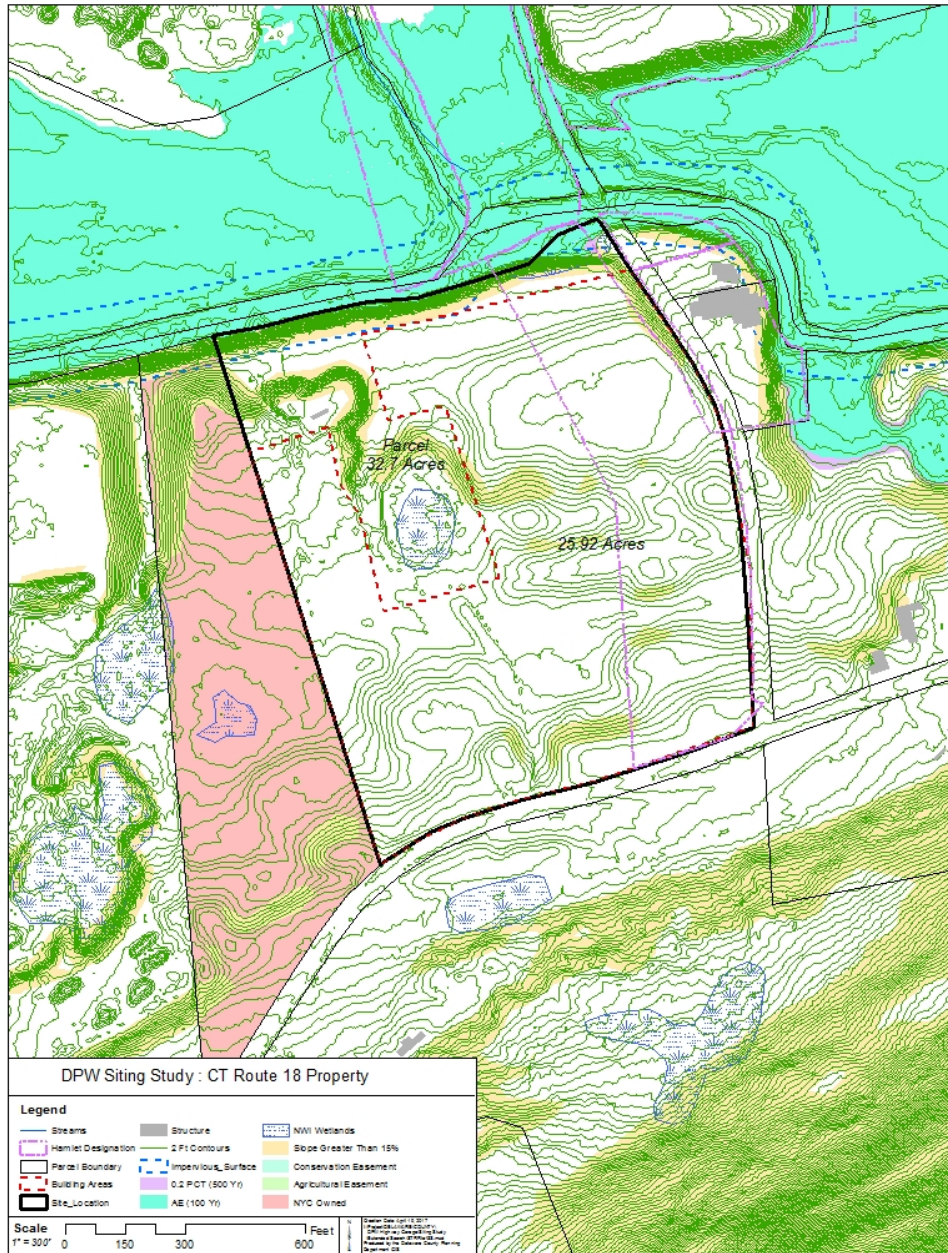
NYS Route 10 Property - Aerial



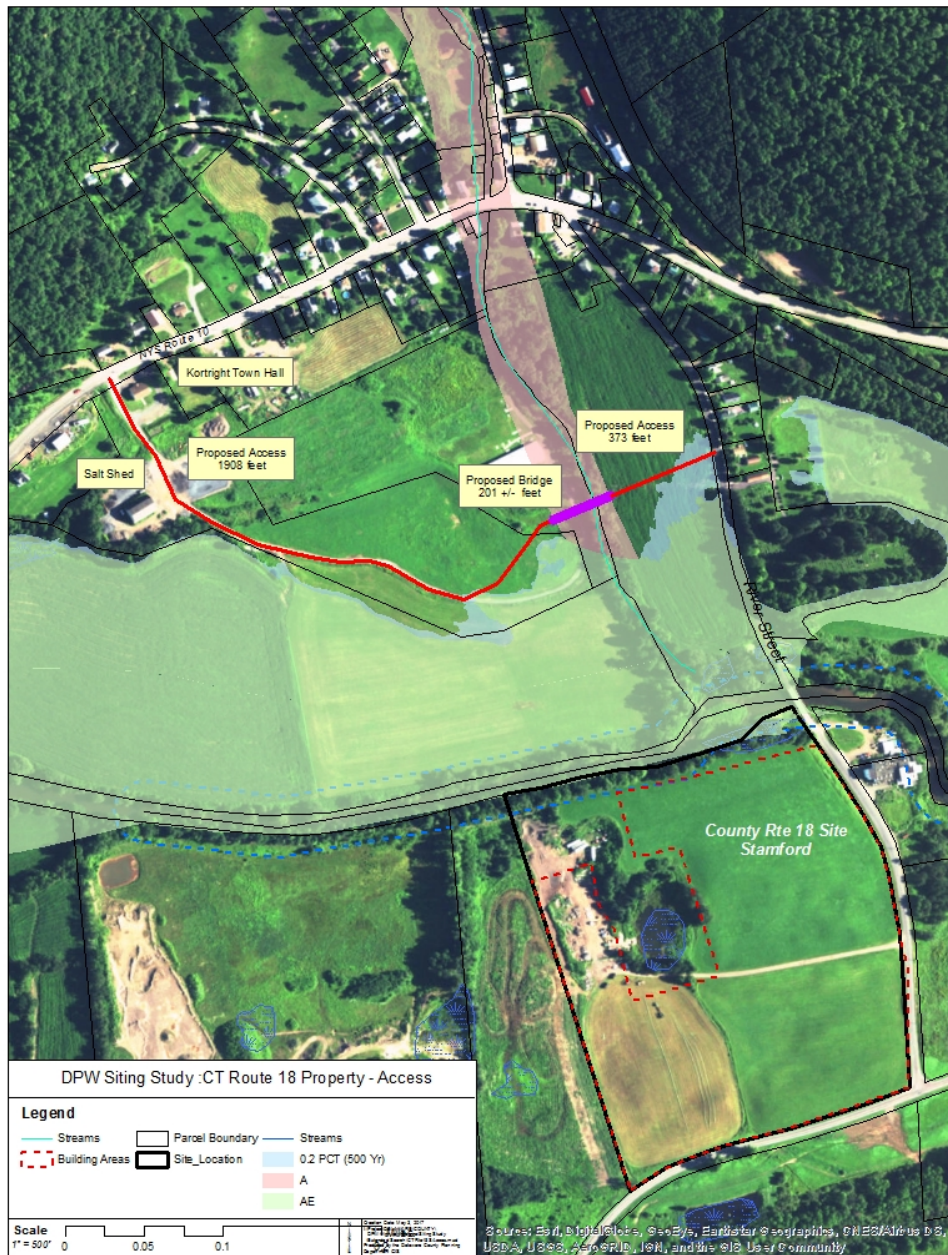
NYS Route 10 Property - Soil



CT Route 18 - Stamford



CT Route 18 - Access : Stamford



Site Rankings

Site Name	ADS	3PP	S_Septic	AFE	ATT	MW	MSR	AP	OSG	ESU_Occ	Ebldg	B_Comm	PEF	Wetlands	Fiber	Score
Back River Rd	10	6	8	4	5	5	0	0	6	2	2	1	1	8		58
NYS Rte 10	10	8	3	5	10	0	0	5	6	2	3	1	1	7		61
NYS Rte 10 B	10	8	8	5	10	0	0	0	2	2	0	1	1	8		55
CT Rte 18 S	10	8	8	2	2	2	1	5	3	5	0	2	1	7		56

Site Location

Score

Back River Road

58

NYS Route 10

61

NYS Route 10 B

55

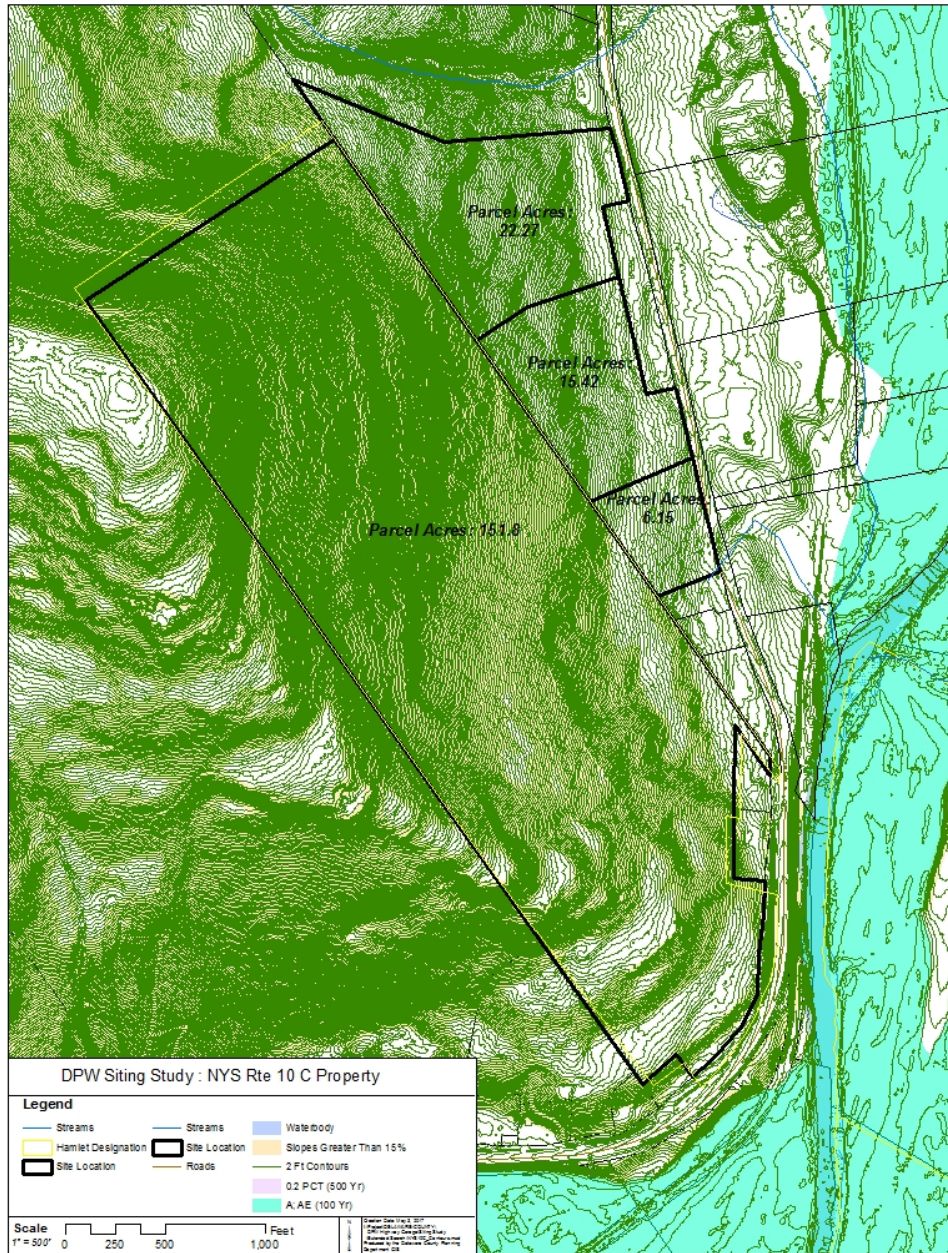
CT Route 18

56

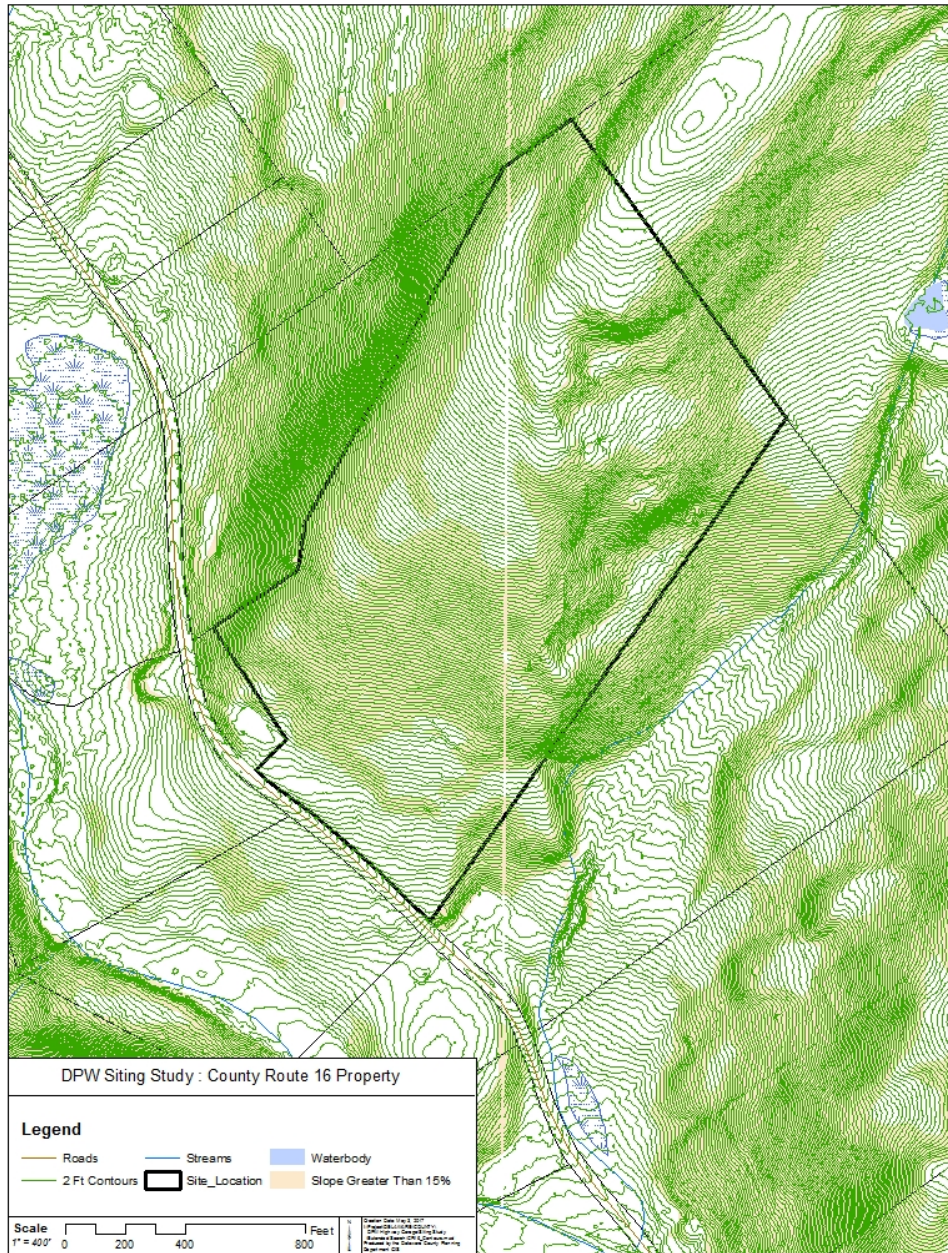
DPW Siting Study
Expanded Parcel Search

May 4, 2017

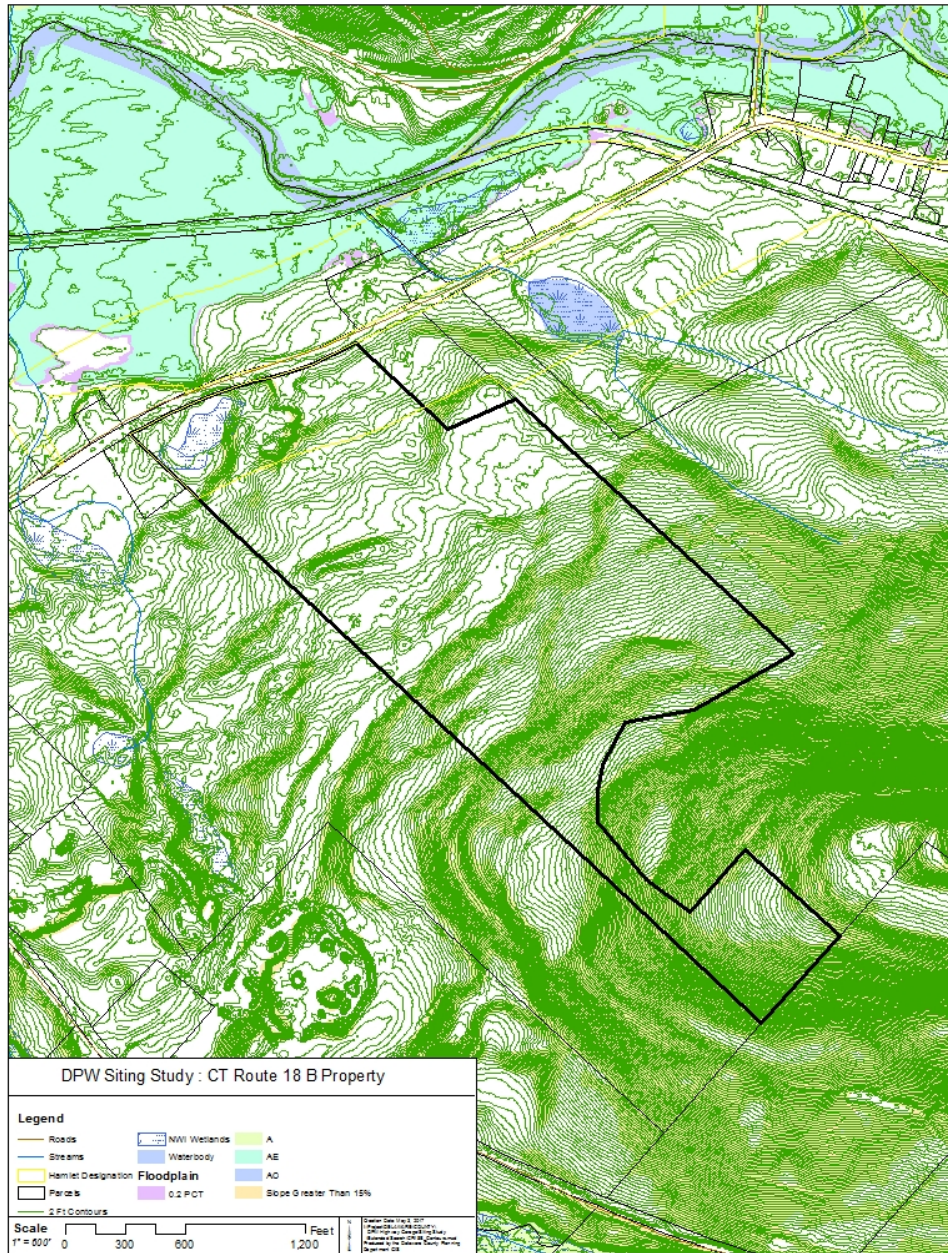
NYS Route 10 C Property: Hamden



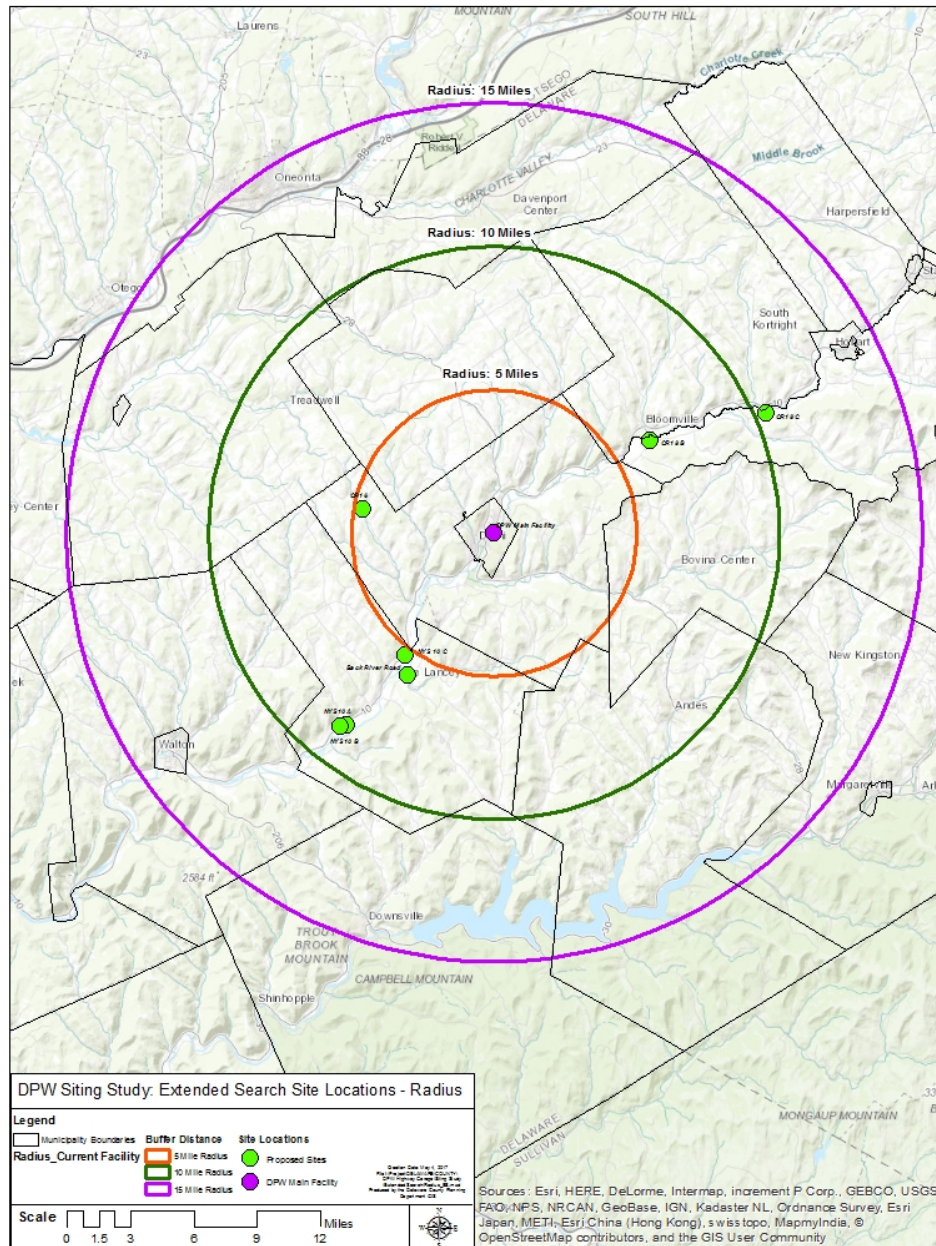
County Route 16 Property: Delhi



County Route 18 B Property: Stamford



Extended Site Locations - Radius



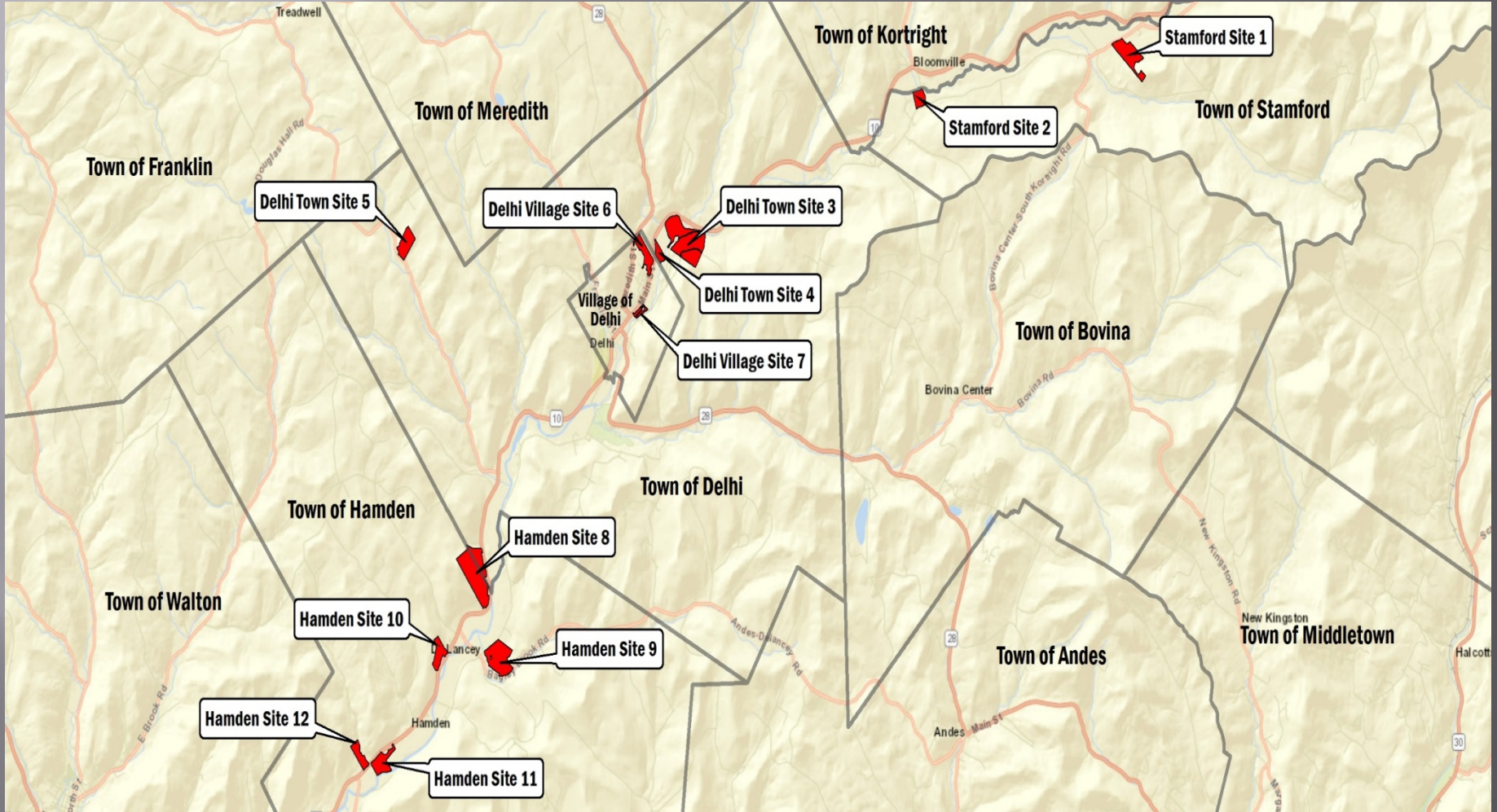
Delaware County DPW Facility Site Selection

By Wendel

Site Selection Process

1. Facility Programing
2. Typical Building/Site Layout
3. Candidate Sites
 - Sites 3, 4 and 6 originally by County Planning,
 - plus 8 volunteered sites and existing site
 - Confirmed availability of all
 - Site 6 off list due to unavailability
4. Establish Selection Criteria
 - Supervisor Input
5. Score Sites (1 – 10)
 - Site visits on 5/30/17 and 5/31/17
6. Establish Criteria Weight Parameters
 - Supervisor Input
7. Ranking of Sites
 - (Score x Average Weight)

Candidate Sites



Supervisor/Committee Weighting

Supervisor #	1	2	3	4	5	6	7	8	9	10
Criteria	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
Access	20%	10%	10%	20%	10%	15%	0%	20%	20%	10%
Capital Costs	20%	5%	10%	10%	4%	20%	0%	20%	10%	15%
Demolition	5%	5%	5%	5%	3%	5%	10%	5%	10%	5%
Environmental	5%	5%	10%	5%	10%	5%	5%	10%	5%	15%
Flood Plain	15%	25%	10%	5%	25%	10%	25%	10%	25%	5%
Neighborhood	10%	10%	5%	15%	3%	5%	0%	0%	2%	5%
Inc. Operational Costs	5%	5%	10%	5%	10%	15%	25%	0%	15%	5%
Soils	5%	15%	10%	15%	3%	5%	10%	10%	5%	10%
Topography	5%	5%	10%	10%	10%	5%	25%	5%	2%	5%
Utilites	5%	10%	10%	5%	12%	10%	0%	10%	4%	20%
Water	5%	5%	10%	5%	10%	5%	0%	10%	2%	5%
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

11	12	13	14	15	16	17	18	19	Total	Average Weight	Order of Weight
10%	15%	15%	20%	10%	9%	5%	9%	0%	228%	12.67%	
8%	10%	10%	10%	25%	15%	25%	9%	0%	226%	12.56%	
6%	5%	5%	10%	0%	5%	10%	9%	0%	108%	6.00%	
10%	5%	10%	20%	5%	5%	5%	9%	0%	144%	8.00%	
10%	15%	15%	20%	10%	15%	5%	9%	0%	254%	14.11%	
10%	5%	10%	0%	20%	5%	5%	9%	0%	119%	6.61%	
10%	15%	5%	20%	10%	15%	25%	9%	0%	204%	11.33%	
10%	5%	10%	0%	20%	10%	0%	9%	0%	152%	8.44%	
8%	5%	5%	0%	0%	6%	0%	9%	0%	115%	6.39%	
10%	15%	10%	0%	0%	10%	10%	10%	0%	151%	8.39%	
8%	5%	5%	0%	0%	5%	10%	9%	0%	99%	5.50%	
100%	100%	100%	100%	100%	100%	100%	100%	0%	1800%	100.00%	

Selection Criteria & Weighting

Selection Criteria	Average Weight
Access	12.67 %
Capital Cost	12.56 %
Demolition	6.00 %
Environmental	8.00 %
Flood Plain	14.11 %
Neighborhood	6.61 %
Increased Operational Costs	11.33 %
Soils	8.44 %
Topography	6.39 %
Utilities	8.39 %
Water	5.50 %
Total	100 %

Top 4 Highest Ranked Sites

Selection Criteria	Average Weighting	Site 9		Site 1		Site 3		Site 11	
		Score	Weighted Score	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score
Access	12.67 %	6	76.02	5	63.35	3	38.01	6	76.02
Capital Cost	12.56 %	7	87.92	7	87.92	4	50.24	8	100.48
Demolition	6.00 %	9	54.00	10	60.00	10	60.00	7	42.00
Environmental	8.00 %	7	56.00	7	56.00	6	48.00	6	48.00
Flood Plain	14.11 %	10	141.10	9	129.99	8	112.88	7	98.77
Neighborhood	6.61 %	6	39.66	9	59.49	7	46.27	7	46.27
Increased Operational Costs	11.33 %	5	56.65	3	33.99	9	101.97	5	56.65
Soils	8.44 %	6	50.64	8	67.52	6	50.64	6	50.64
Topography	6.34 %	10	63.90	8	51.12	10	63.90	8	51.12
Utilities	8.39 %	6	50.34	6	50.34	5	41.95	6	50.34
Water	5.50 %	4	22.00	5	27.50	8	44.00	5	27.50
Total	100 %	698.23		684.22		657.86		647.79	
Ranking		1		2		3		4	

Next Steps

1. **TOP 4 SITES**

- Due Diligence - Environmental Impact Paper Search
- Contact Local Code Officials
- Test Fitting – Conceptual Design/Cost Estimate/Schedule
- Traffic and Site Access (Bridges, Roads, Intersections, etc.)
- Assess Operational Costs

2. **TOP RANKED SITE**

- Preliminary Design/Cost Estimate
- SEQR
 - Detailed Impact Assessments
- Temporary Relocation – TBD (?)
- Acquisition
- Final Design/Cost Estimate
- Bidding
- Construction

TIMELINE OF IN-HOUSE SITING STUDY

- 8-30-2016 Woidt Engineer H&H Study Draft – 3 Options for Page Ave
- 9-14-2016 Possible Location Presented to DPW Committee
- 9-28-2016 Siting Study Presented to DPW Committee
- 11-9-2016 Siting Study Rankings Presented to DPW Committee
- 12-14-2016 Site Visit Top 3 Ranked Presented to DPW Committee
- 1-4-2017 Siting Study Presented to County Board (Executive Session)
- 3-22-2017 DPW Chairman Presented to Public at Committee/Board
- 4-26-2017 Extended Search Study Presented to County Board
- 5-4-2017 Extended Search II Study Presented to DPW Committee
- 5-19-2017 Presentation to Ag Farmland Protection Board
- 6-28-2017 Wendel Siting Study Presentation to County Board
- 7-12-2017 Public Informational Meeting at Delhi Academy

- Today's Public Informational Meeting

Questions