

## **APPENDIX A**

### **Department of Transportation Solar Array Site Summaries**

- Exit 109 Analysis**
- Exit 112 Analysis**
- Exit 109 and Exit 112 Access Locations**
- Airport Location**

**Augusta, ME Solar – ME DOT**  
**Utility: CMP**

**Exit 109 site** –I95 exit 109 interchange Augusta, ME 04330 (Approx.)





- a. 1.44 miles from site to substation (Capitol St) CKT 215D3 (See attached map) \* See Note i below
- b. Transformer Size: 34.5/12.47 kV rated at 10/14 MVA
- c. Solar System Max Potential Size:
  - i. Estimated the interchange can support 2.5 MW AC \* See Note ii below
- d. CMP System Max Potential Size:
  - i. Estimated at 5 MW AC
- e. Interconnection cost estimates:
  - i. Estimated On-Site Interconnection Cost = ~\$210k
- f. Notes:
  - i. There is also an option to connect to the Manchester substation approx. 3.4 miles away. This is not recommended as there are several projects already in queue on those circuits.
  - ii. This estimate does not account for any wetlands, adverse slopes, rock outcroppings, etc. This estimate only allows for a ~20 ft. setback from the highway, more may be required.
  - iii. Cost estimates as follows:
    - 1. 3-phase line build: \$60k
    - 2. Standard interconnection cost: \$150k
  - iv. The current CMP queue list shows no generation ahead of this project.
- g. Conclusion:
  - i. Based on the above RLC would recommend proceeding with this site. The lack of any generation in the queue ahead of this project is a good thing.
  - ii. However, there will be some extra costs associated with this site as underground bores will be needed to connect each of the three individual interchanges. In essence, this site will act as three smaller individual sites connected at the final POI. This will entail three step-up transformers, an additional high side combiner, additional protection, and additional amounts of cable for example.



# ME DOT - Exit 109

RLC Engineering

## Legend

-  3-phase build (0.15 mi)
-  Capitol St 3-phase (1.28 mi)
-  Capitol St substation
-  Esstimated land

Google Earth

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Ganneston Park

Capitol Street



3000 ft



**Augusta, ME Solar – ME DOT**  
**Utility: CMP**

**Exit 112 site** – I95 exit 112 interchange Augusta, ME 04330 (Approx.)




- a. 1.46 miles from site to substation (North Augusta) CKT 272D3 (See attached map)
- b. Transformer Size: 115/12.47 kV rated at 10/14 MVA
- c. Solar System Max Potential Size:
  - i. Estimated the interchange can support 1.875 MW AC \* See Note i below
- d. CMP System Max Potential Size:
  - i. Estimated at 5 MW AC
- e. Interconnection cost estimates:
  - i. Estimated On-Site Interconnection Cost = ~\$190k
- f. Notes:
  - i. This estimate does not account for any wetlands, adverse slopes, rock outcroppings, etc. This estimate only allows for a ~20 ft. setback from the highway, more may be required.
  - ii. Cost estimates as follows:
    - 1. Possible capacitor settings upgrade: \$40k
    - 2. Standard interconnection cost: \$150k
  - iii. The current CMP queue list shows 1.25 MW AC generation in the queue ahead of this project.
- g. Conclusion:
  - i. Based on the above RLC would recommend proceeding with this site. Minimal generation in the queue ahead of this project is a good thing.
  - ii. This is a smaller site, so any reduction in system size will have a greater effect on the production of the system. For example ledge outcroppings or unfavorable terrain may prevent modules from being placed in certain areas.



# ME DOT - Exit 112

RLC Engineering

## Legend

-  Estimated land
-  Existing 3-phase (1.46 mi)
-  North Augusta substation

North Augusta

Google Earth

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4000 ft




# Exit 109, Augusta

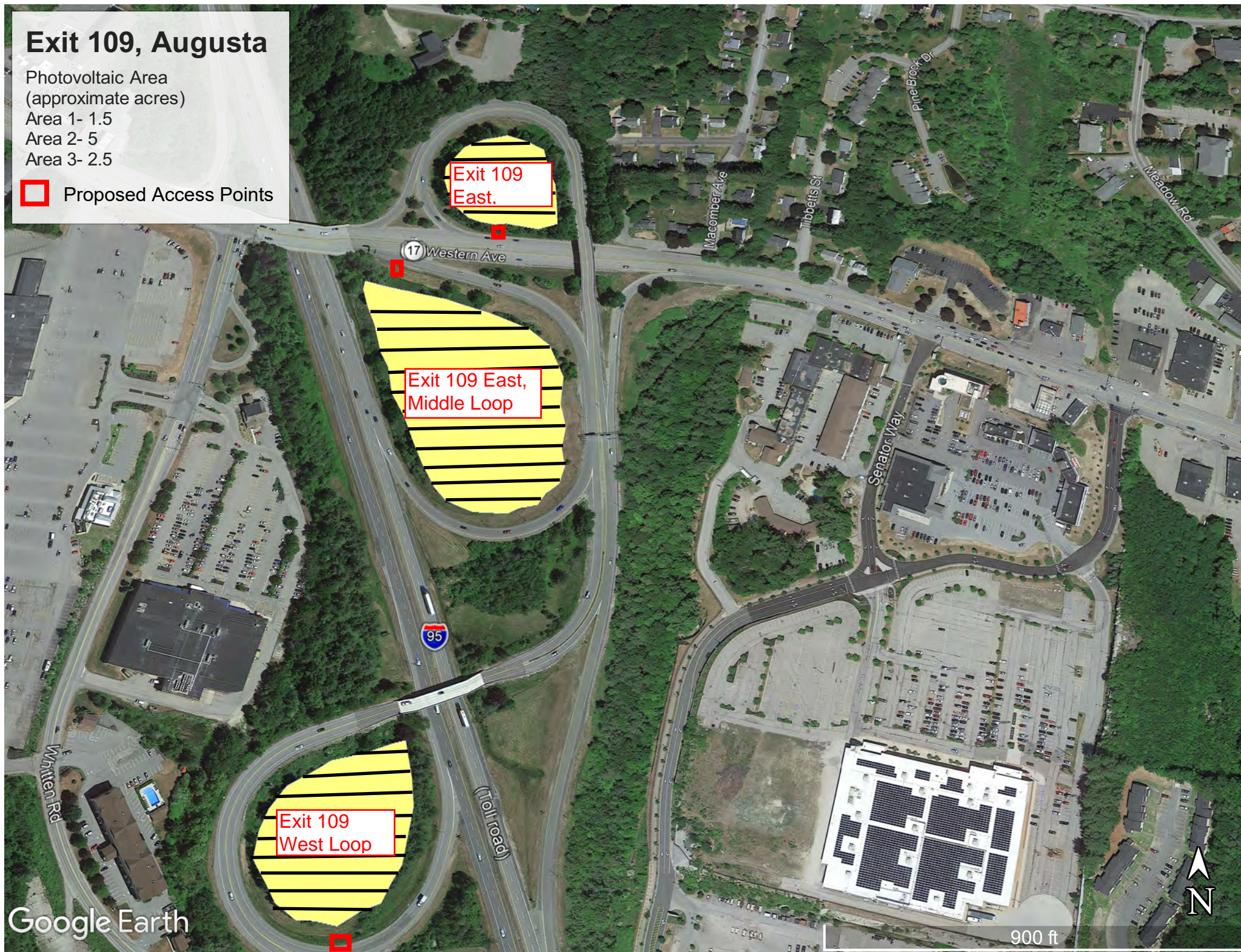
Photovoltaic Area  
(approximate acres)

Area 1- 1.5

Area 2- 5


Area 3- 2.5

 Proposed Access Points



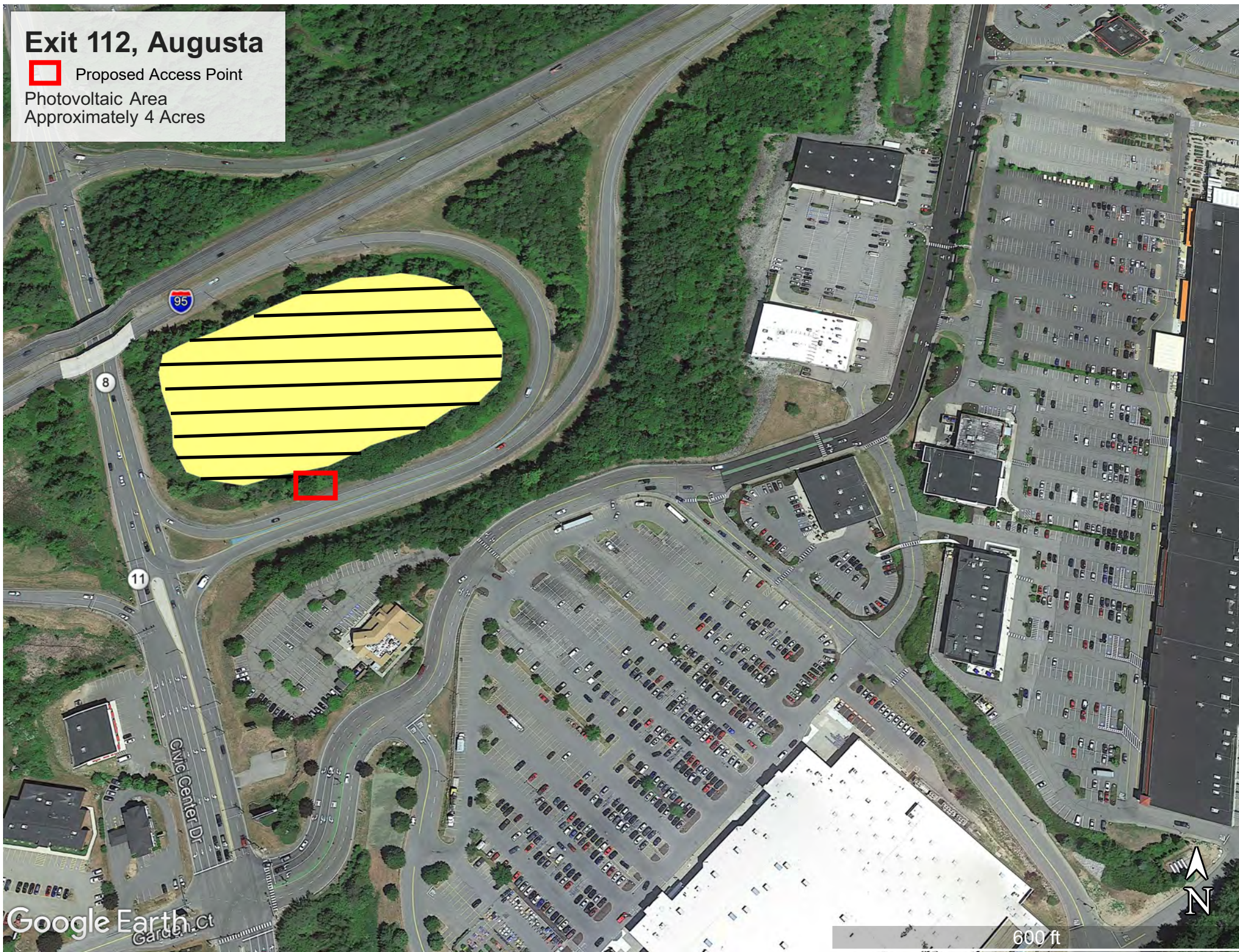


# Exit 112, Augusta

 Proposed Access Point

Photovoltaic Area

Approximately 4 Acres





# Augusta Airport

29

10

28

24

22

19

9-52  
DRAGON PRODUCTS CO LLC  
50.12 ac

9-64  
AUG. CITY OF  
86.60 ac

9-65  
AUG. CITY OF  
38.90 ac

9-5  
MAINE STATE OF  
376.22 ac

9-2  
CENTRAL MAINE POWER CO  
38.62 ac

9-3  
PEACHEY PROPERTIES LLC  
8.27 ac

9-3A  
KIMBALL ISLAND LLC  
7.50 ac

9-49  
MULHOLLAND  
25.21 ac

9-62  
BEST APARTMENTS  
28.00 ac

9-63  
MANDUCA  
14.48 ac

9-44  
ACHEY PROPERTIES LLC  
54.24 ac

Site 2 - Approximately 35 acres

Site 1  
approximately  
35 acres

AUGUSTA  
STATE  
AIRPORT

WINTHROP  
STREET

WINTHROP

TALE PINEWAY

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