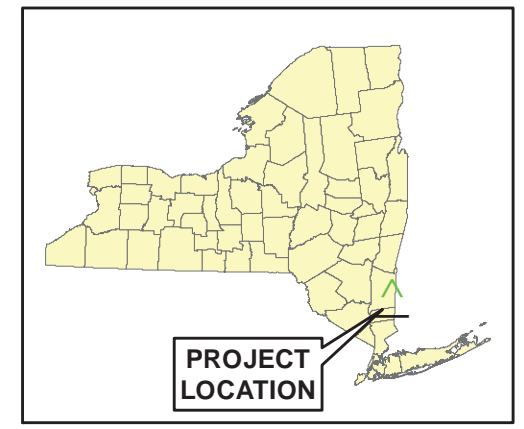


## **Figures: Project Description**

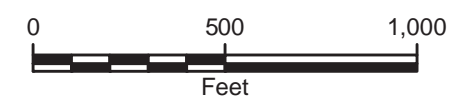
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**Legend**

- Project Development Area
- Rasco Parcel
- Property
- Elevation Contour - 10ft

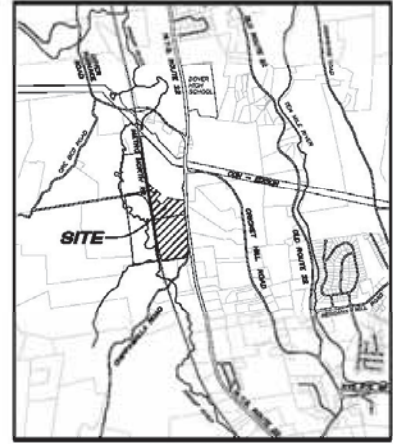
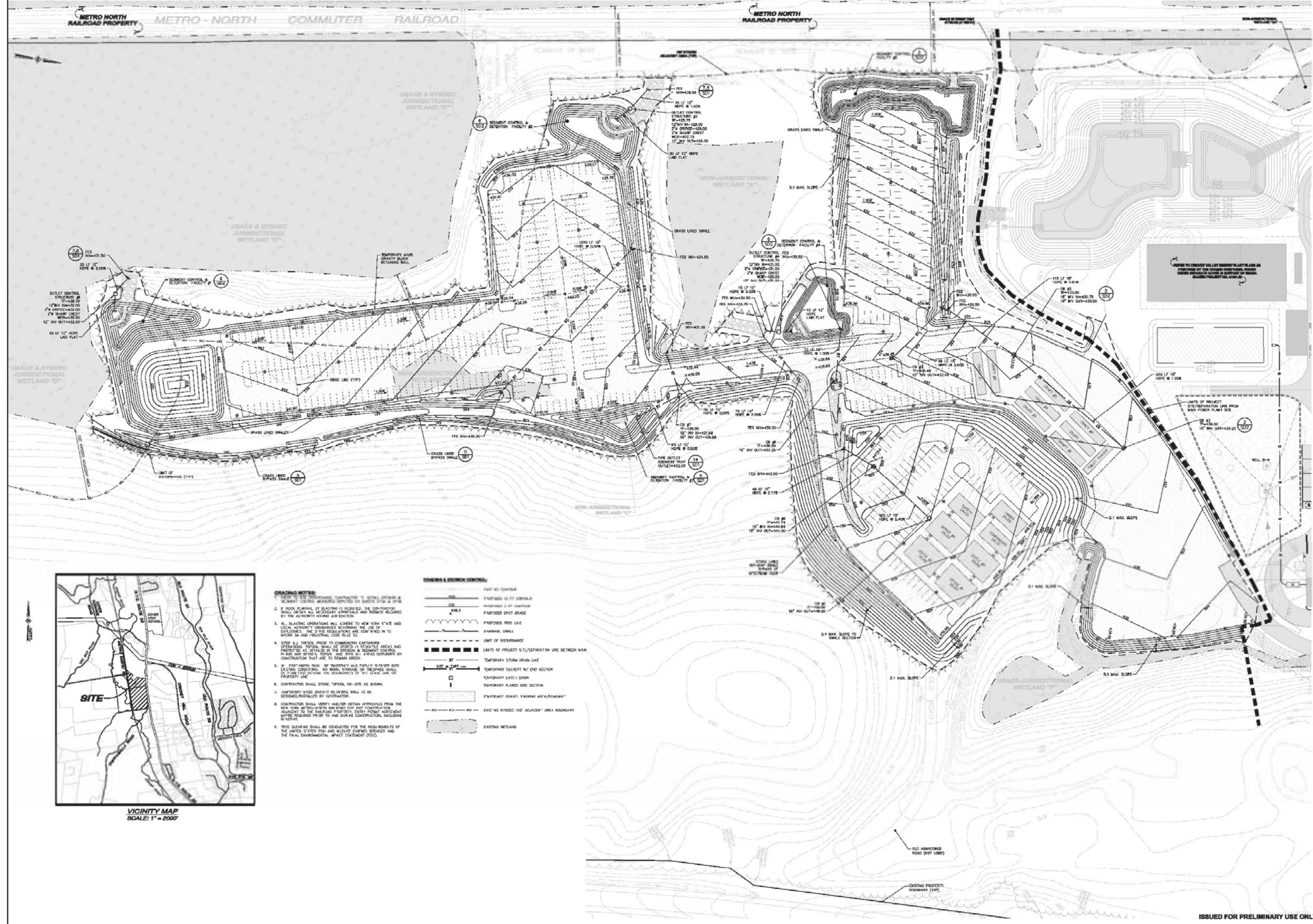
SOURCE:  
 2009 Dutchess County Color Infrared Orthoimagery  
 obtained from NYS GIS Clearinghouse.  
<http://www.nysgis.state.ny.us/gateway/mg/2004/dutchess/>



**CRICKET VALLEY  
 ENERGY**  
**FIGURE 1-1  
 CURRENT PROJECT  
 PROPERTY**

Town of Dover, Dutchess County, New York

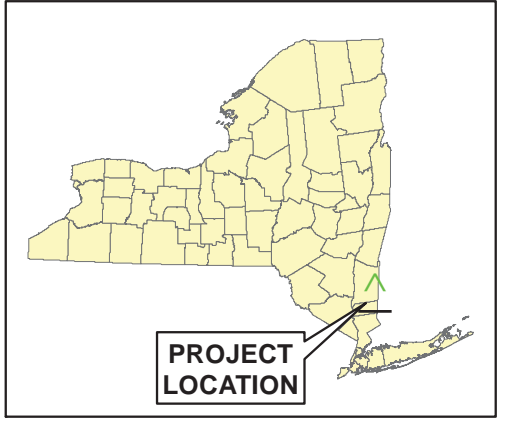
User: MNeeta  
Path: G:\Project\GIS\CRICKET\MXD\20120713\CV\_RascoPropTempConstCAD.mxd



- CONSTRUCTION NOTES:**
- IF ROCK IS ENCOUNTERED BY BLASTING IT SHALL BE REMOVED TO THE DEPTH OF THE UNDERLYING BEDROCK AND REPAIRED BY THE CONTRACTOR.
  - ALL BLASTING OPERATIONS SHALL BE IN ACCORDANCE WITH THE NEW YORK STATE AND LOCAL REGULATORY AGENCIES GOVERNING THE USE OF EXPLOSIVES. THE STATE REGULATORY AGENCY SHALL BE NOTIFIED IN 12 HOURS OF ANY AND ALL BLASTING OPERATIONS.
  - STOP ALL WORK, PRIOR TO COMMENCING EARTHWORK OPERATIONS, UNLESS THE CONTRACTOR HAS OBTAINED APPROVAL FROM THE USACE AND NYSDEC AS DETAILED IN THE EROSION AND SEDIMENT CONTROL PLAN AND DETAILS TYPED. ANY TYPE OF EARTHWORK BY CONSTRUCTION THAT ARE TO BE MAINTAINED.
  - IF EROSION CONTROL MEASURES ARE NOT INSTALLED PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY AND SHALL BE RESPONSIBLE FOR THE COST OF THE EROSION CONTROL MEASURES.
  - CONTRACTOR SHALL NOTIFY AND/OR OBTAIN APPROVAL FROM THE NEW YORK METROPOLITAN AREA BOARD FOR ANY CONSTRUCTION ADJACENT TO THE RAILROAD PROPERTY. ENTRY POINT AGREEMENT MUST BE OBTAINED PRIOR TO THE START OF CONSTRUCTION.
  - TREE CLEARING SHALL BE CONDUCTED FOR THE REQUIREMENTS OF THE UNITED STATES FISH AND WILDLIFE SERVICE AND THE FINAL ENVIRONMENTAL IMPACT STATEMENT (FEIS).

**SYMBOLS & BOUNDARY CONTROL:**

Proposed 12" Spot Drain	Proposed 18" Spot Drain
Proposed Swale	Drainage Swale
Limit of Disturbance	Limit of Project
Temporary Storm Drain Line	Temporary Catch Basin
Temporary Placed End Section	Temporary Heavy Parking Area/Storage
Existing Wetland	USACE & NYSDEC 100' Adjacent Area Boundary
	Existing Wetland



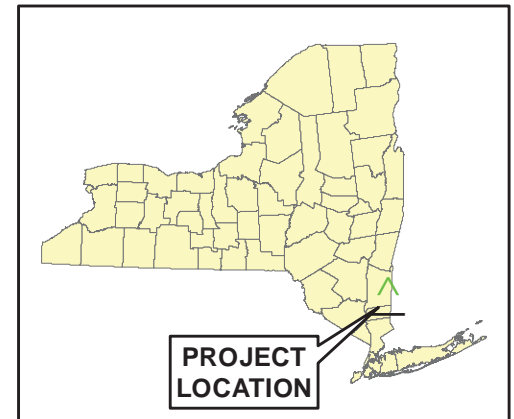
**ARCADIS**

**CRICKET VALLEY ENERGY**

**FIGURE 1-2  
PROPOSED TEMPORARY CONSTRUCTION AREA - FORMER RASCO PARCEL**

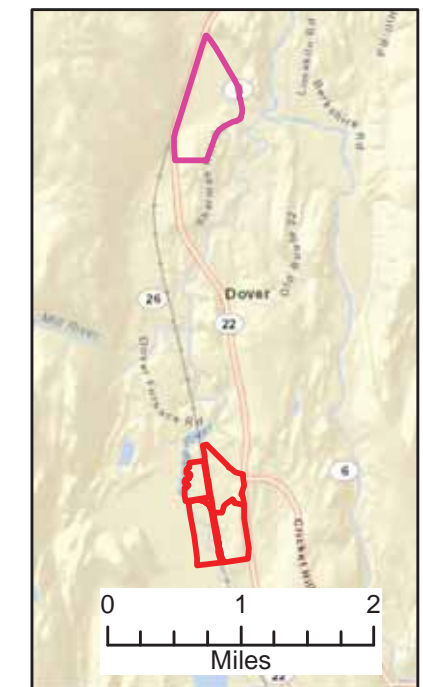
Town of Dover, Dutchess County, New York

ISSUED FOR PRELIMINARY USE ONLY

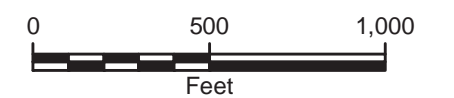


**Legend**

- Laydown Review Area
- Property



SOURCE:  
 2009 Dutchess County Color Infrared Orthoimagery  
 obtained from NYS GIS Clearinghouse.  
<http://www.nysgis.state.ny.us/gateway/mg/2004/dutchess/>

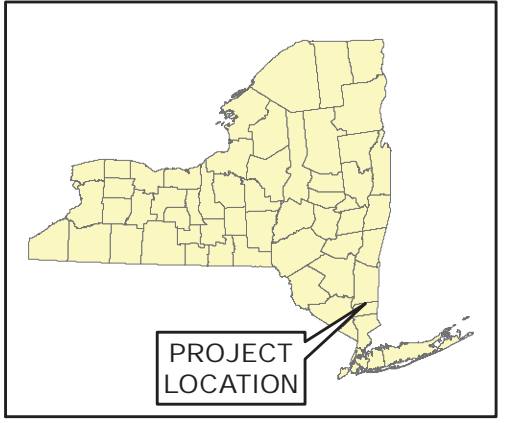
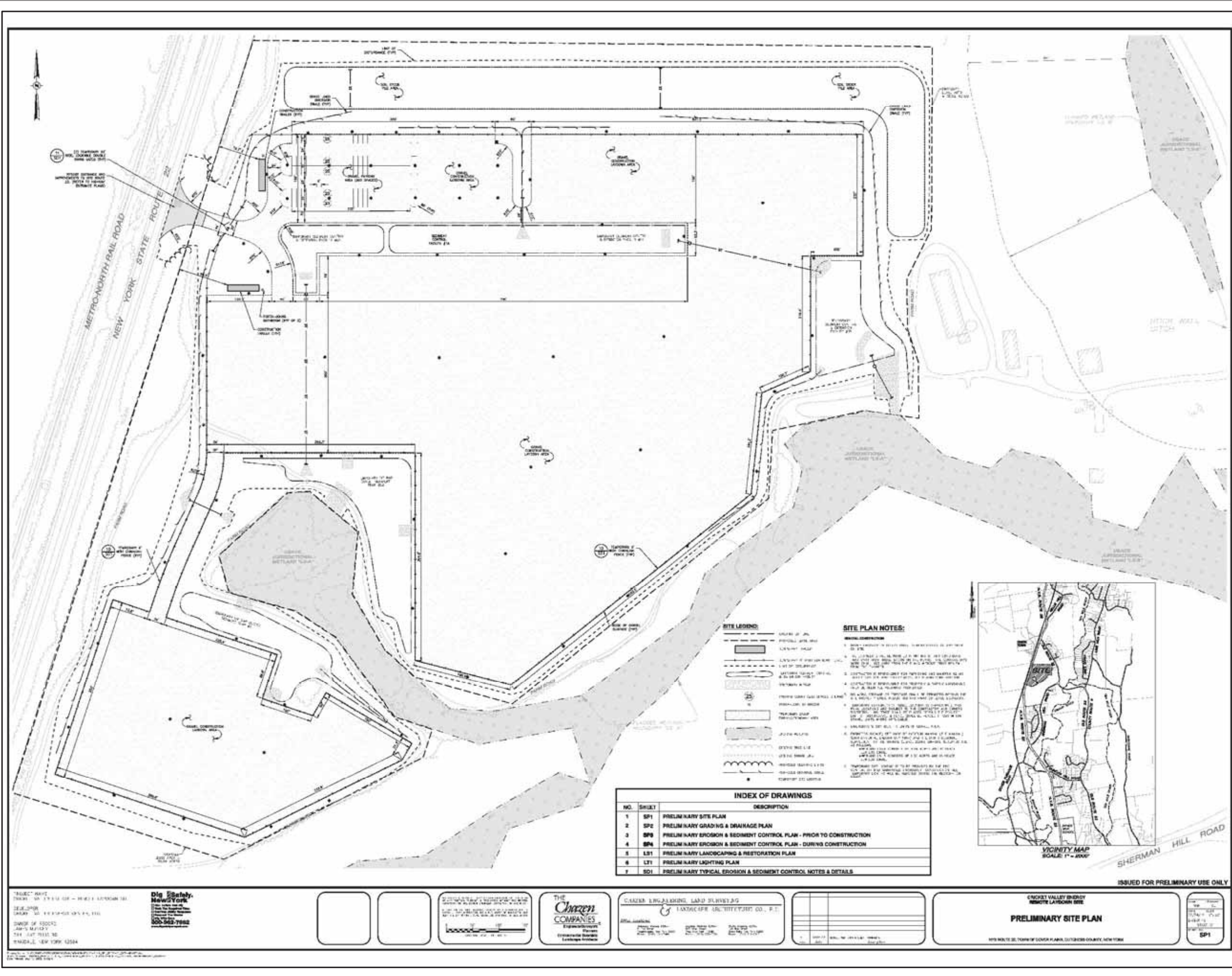


**CRICKET VALLEY  
 ENERGY**

**FIGURE 1-3  
 REMOTE LAYDOWN SITE**

**Town of Dover, Dutchess County, New York**

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 Path: G:\Projects\GIS\CRICKET\WDXD\20120529\_Section1\CV\_RascocAD.mxd



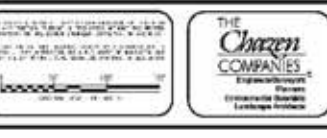
**CRICKET VALLEY ENERGY**

**FIGURE 1-4**  
 PROPOSED TEMPORARY  
 CONSTRUCTION AREA -  
 REMOTE LAYDOWN SITE

Town of Dover, Dutchess County, New York

PROJECT NAME:  
 DRAWN BY:  
 CHECKED BY:  
 DATE:  
 SCALE:

**Big Safety**  
 New York  
 500-543-7555

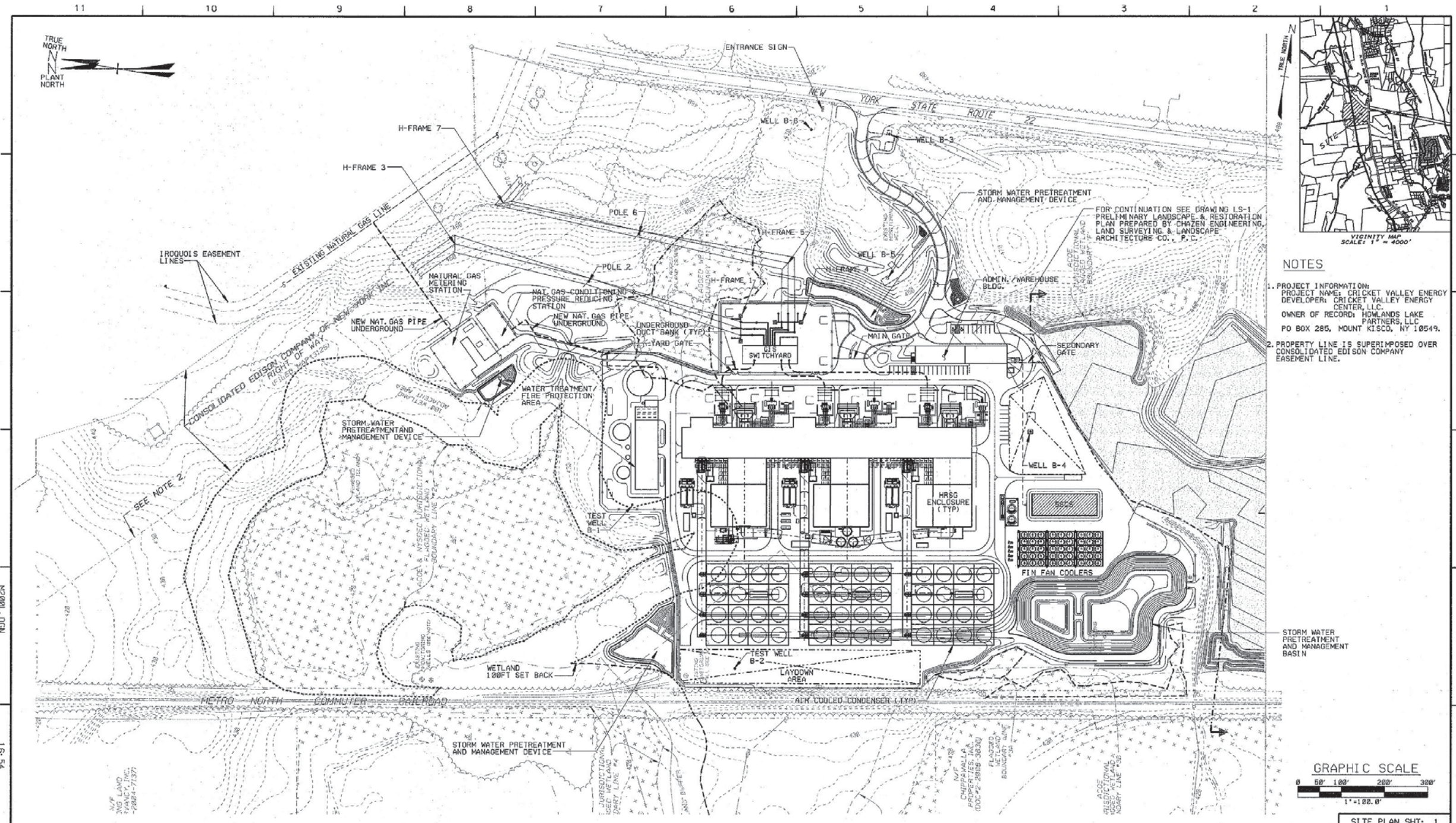
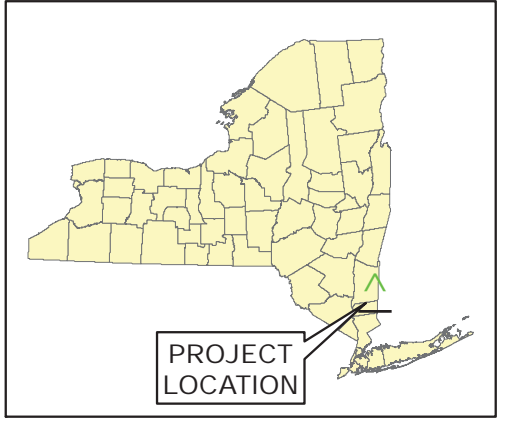


CAAZER ENGINEERING, LAND SURVEYING  
 LANDSCAPE ARCHITECTURE CO., P.C.

PROJECT NO.:	DATE:
PROJECT NAME:	SCALE:
PROJECT LOCATION:	PROJECT STATUS:

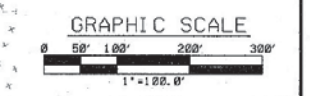
CRICKET VALLEY ENERGY  
 REMOTE LAYDOWN SITE  
**PRELIMINARY SITE PLAN**  
 1000 STATE ST. TOWN OF DOVER, DUTCHESS COUNTY, NEW YORK

ISSUED FOR PRELIMINARY USE ONLY  
 SP1



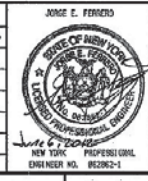
**NOTES**

- PROJECT INFORMATION:  
PROJECT NAME: CRICKET VALLEY ENERGY  
DEVELOPER: CRICKET VALLEY ENERGY CENTER, LLC  
OWNER OF RECORD: HOWLANDS LAKE PARTNERS, LLC  
PO BOX 285, MOUNT KISCO, NY 10549.
- PROPERTY LINE IS SUPERIMPOSED OVER CONSOLIDATED EDISON COMPANY EASEMENT LINE.



Rev No	Revision	Date	Drawn	Checked	Approved	Rev No	Revision	Date	Drawn	Checked	Approved
S	REVISED SWITCHYARD AND ARRANGEMENT OF TRANSMISSION LINE POLES/FRAMES.	08/04/10	SM			N	ISSUED FOR PERMITTING	10/16/09	JGF		
T	REVISED TO INCORPORATE CLIENTS COMMENTS.		JF			P	REVISED TO INCLUDE HRSG AND GENERATOR ENCLOSURES	10/29/09	JFH	JEF	
						Q	GENERAL REVISION	02/24/10	ZU		
						R	ADDED WELLS B-6. REVISED SWITCHYARD ARRANGEMENT AND RELOCATED TRANSMISSION LINE POLES.	11/22/10	JGF		

SITE PLAN SHT: 1



Engineering Review		Checked		Date	
Chief Eng.	Eng.	Chief Eng.	Eng.	Chief Eng.	Eng.
Drawn	Designed	Checked	Approved for Construction	Work Order	Drawing No.
JGF	JGF	JGF	JGF	3000	M200

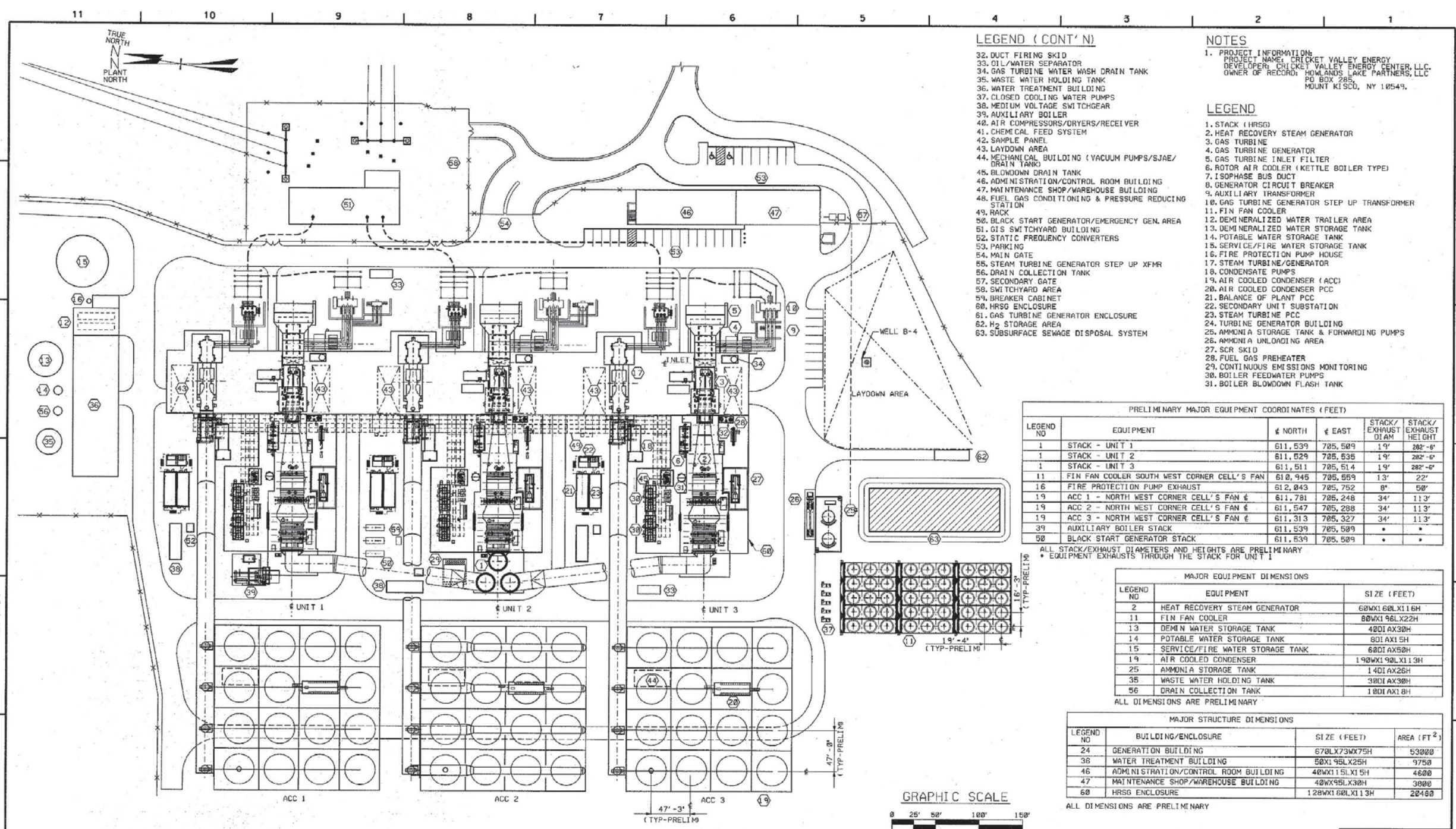
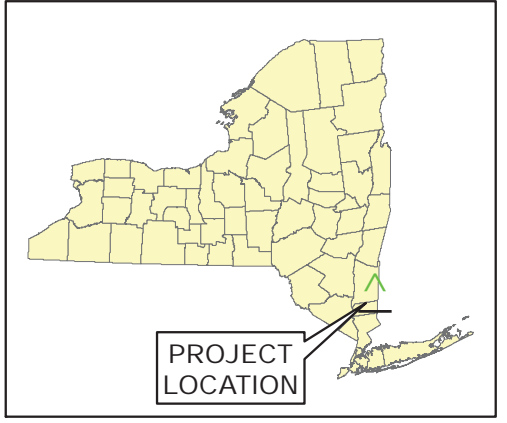
**CRICKET VALLEY ENERGY**  
TOWN OF DOVER  
DUTCHESS COUNTY, NEW YORK  
GENERAL ARRANGEMENT  
PLOT PLAN STUDY

**BURNS AND ROE ENTERPRISES, INC.**  
Engineers and Constructors - Grade I, NJ  
New York Certificate of Authorization No. C008877



**CRICKET VALLEY ENERGY**  
FIGURE 1-5  
PROJECT PLOT PLAN  
Town of Dover, Dutchess County, New York

06-JUN-2012 1:59:54 K20001.DGN



**LEGEND (CONT'N)**

- 32. DUCT FIRING SKID
- 33. OIL/WATER SEPARATOR
- 34. GAS TURBINE WATER WASH DRAIN TANK
- 35. WASTE WATER HOLDING TANK
- 36. WATER TREATMENT BUILDING
- 37. CLOSED COOLING WATER PUMPS
- 38. MEDIUM VOLTAGE SWITCHGEAR
- 39. AUXILIARY BOILER
- 40. AIR COMPRESSORS/DRYERS/RECEIVER
- 41. CHEMICAL FEED SYSTEM
- 42. SAMPLE PANEL
- 43. LAYDOWN AREA
- 44. MECHANICAL BUILDING (VACUUM PUMPS/SJAE/ DRAIN TANK)
- 45. BLOWDOWN DRAIN TANK
- 46. ADMINISTRATION/CONTROL ROOM BUILDING
- 47. MAINTENANCE SHOP/WAREHOUSE BUILDING
- 48. FUEL GAS CONDITIONING & PRESSURE REDUCING STATION
- 49. RACK
- 50. BLACK START GENERATOR/EMERGENCY GEN. AREA
- 51. GIS SWITCHYARD BUILDING
- 52. STATIC FREQUENCY CONVERTERS
- 53. PARKING
- 54. MAIN GATE
- 55. STEAM TURBINE GENERATOR STEP UP XFMR
- 56. DRAIN COLLECTION TANK
- 57. SECONDARY GATE
- 58. SWITCHYARD AREA
- 59. BREAKER CABINET
- 60. HRSG ENCLOSURE
- 61. GAS TURBINE GENERATOR ENCLOSURE
- 62. H<sub>2</sub> STORAGE AREA
- 63. SUBSURFACE SEWAGE DISPOSAL SYSTEM

**NOTES**

1. PROJECT INFORMATION:  
 PROJECT NAME: CRICKET VALLEY ENERGY CENTER  
 DEVELOPER: CRICKET VALLEY ENERGY CENTER, LLC  
 OWNER OF RECORD: HOWLANDS LAKE PARTNERS, LLC  
 PO BOX 285  
 MOUNT KISCO, NY 10549.

**LEGEND**

- 1. STACK (HRSG)
- 2. HEAT RECOVERY STEAM GENERATOR
- 3. GAS TURBINE
- 4. GAS TURBINE GENERATOR
- 5. GAS TURBINE INLET FILTER
- 6. ROTOR AIR COOLER (KETTLE BOILER TYPE)
- 7. ISOPHASE BUS DUCT
- 8. GENERATOR CIRCUIT BREAKER
- 9. AUXILIARY TRANSFORMER
- 10. GAS TURBINE GENERATOR STEP UP TRANSFORMER
- 11. FIN FAN COOLER
- 12. DEMINERALIZED WATER TRAILER AREA
- 13. DEMINERALIZED WATER STORAGE TANK
- 14. POTABLE WATER STORAGE TANK
- 15. SERVICE/FIRE WATER STORAGE TANK
- 16. FIRE PROTECTION PUMP HOUSE
- 17. STEAM TURBINE/GENERATOR
- 18. CONDENSATE PUMPS
- 19. AIR COOLED CONDENSER (ACC)
- 20. AIR COOLED CONDENSER PCC
- 21. BALANCE OF PLANT PCC
- 22. SECONDARY UNIT SUBSTATION
- 23. STEAM TURBINE PCC
- 24. TURBINE GENERATOR BUILDING
- 25. AMMONIA STORAGE TANK & FORWARDING PUMPS
- 26. AMMONIA UNLOADING AREA
- 27. SCR SKID
- 28. FUEL GAS PREHEATER
- 29. CONTINUOUS EMISSIONS MONITORING
- 30. BOILER FEEDWATER PUMPS
- 31. BOILER BLOWDOWN FLASH TANK

PRELIMINARY MAJOR EQUIPMENT COORDINATES (FEET)

LEGEND NO	EQUIPMENT	± NORTH	± EAST	STACK/ EXHAUST DIAM	STACK/ EXHAUST HEIGHT
1	STACK - UNIT 1	611,539	785,509	19'	282'-6"
1	STACK - UNIT 2	611,529	785,535	19'	282'-6"
1	STACK - UNIT 3	611,511	785,514	19'	282'-6"
11	FIN FAN COOLER SOUTH WEST CORNER CELL'S FAN	618,945	785,559	13'	22'
16	FIRE PROTECTION PUMP EXHAUST	612,843	785,752	8'	58'
19	ACC 1 - NORTH WEST CORNER CELL'S FAN ±	611,781	785,248	34'	113'
19	ACC 2 - NORTH WEST CORNER CELL'S FAN ±	611,547	785,288	34'	113'
19	ACC 3 - NORTH WEST CORNER CELL'S FAN ±	611,313	785,327	34'	113'
39	AUXILIARY BOILER STACK	611,539	785,509	*	*
58	BLACK START GENERATOR STACK	611,539	785,509	*	*

ALL STACK/EXHAUST DIAMETERS AND HEIGHTS ARE PRELIMINARY  
 \* EQUIPMENT EXHAUSTS THROUGH THE STACK FOR UNIT 1

MAJOR EQUIPMENT DIMENSIONS

LEGEND NO	EQUIPMENT	SIZE (FEET)
2	HEAT RECOVERY STEAM GENERATOR	60WX160LX116H
11	FIN FAN COOLER	80WX196LX22H
13	DEMIN WATER STORAGE TANK	48DIAX30H
14	POTABLE WATER STORAGE TANK	80DIAX15H
15	SERVICE/FIRE WATER STORAGE TANK	68DIAX58H
19	AIR COOLED CONDENSER	190WX190LX13H
25	AMMONIA STORAGE TANK	14DIAX26H
35	WASTE WATER HOLDING TANK	39DIAX38H
56	DRAIN COLLECTION TANK	18DIAX18H

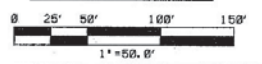
ALL DIMENSIONS ARE PRELIMINARY

MAJOR STRUCTURE DIMENSIONS

LEGEND NO	BUILDING/ENCLOSURE	SIZE (FEET)	AREA (FT <sup>2</sup> )
24	GENERATION BUILDING	678LX73WX75H	53988
36	WATER TREATMENT BUILDING	50X195LX25H	9758
46	ADMINISTRATION/CONTROL ROOM BUILDING	48WX15LX15H	4688
47	MAINTENANCE SHOP/WAREHOUSE BUILDING	48WX95LX30H	3898
60	HRSG ENCLOSURE	128WX168LX113H	28488

ALL DIMENSIONS ARE PRELIMINARY

**GRAPHIC SCALE**



Rev No	Revision	Date	Des	Chkd	Approved (Chief Eng)	Rev No	Revision	Date	Des	Chkd	Approved (Chief Eng)
L	REVISED TO INCORPORATE CLIENTS COMMENTS.				JF	G	ISSUED FOR PERMITTING	1/8/09	JGF		
H	REVISED TO INCLUDE HRSG AND GENERATOR ENCLOSURES	1/8/09	JFH	JEF		H	REVISED TO INCLUDE HRSG AND GENERATOR ENCLOSURES	1/8/09	JFH	JEF	
J	GENERAL REVISION	2/2/09	ZU			J	GENERAL REVISION	2/2/09	ZU		
K	REVISED SWITCHYARD.	2/18/09	SM			K	REVISED SWITCHYARD.	2/18/09	SM		

SITE PLAN SHT: 3

JOSE E. FERRARO  
 Engineering Review  
 MECH ENGR  
 1/12/09

CRICKET VALLEY ENERGY  
 TOWN OF DOVER  
 DUTCHESS COUNTY, NEW YORK  
 GENERAL ARRANGEMENT  
 POWER ISLAND PLANT

BURNS AND ROE ENTERPRISES, INC.  
 Engineers and Constructors - Oradell, NJ  
 New York Certificate of Authorization No. 0004677

Approved for Construction: [Signature] Date: 1/12/09  
 Scale: 1"=50'-0" Chief Mechanical Engineer

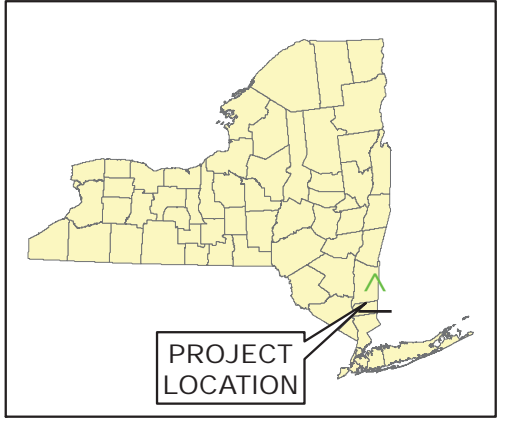
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 Sh: Rev: L



**CRICKET VALLEY ENERGY**

**FIGURE 1-6  
 PROJECT POWER ISLAND DETAILS**

Town of Dover, Dutchess County, New York



TANGRAM 3DS



CRICKET VALLEY  
ENERGY  
FIGURE 1-7  
UPDATED PROJECT  
RENDERING

Town of Dover, Dutchess County, New York



### Figure 1-8 - Project Construction Schedule Cricket Valley Energy Center

