

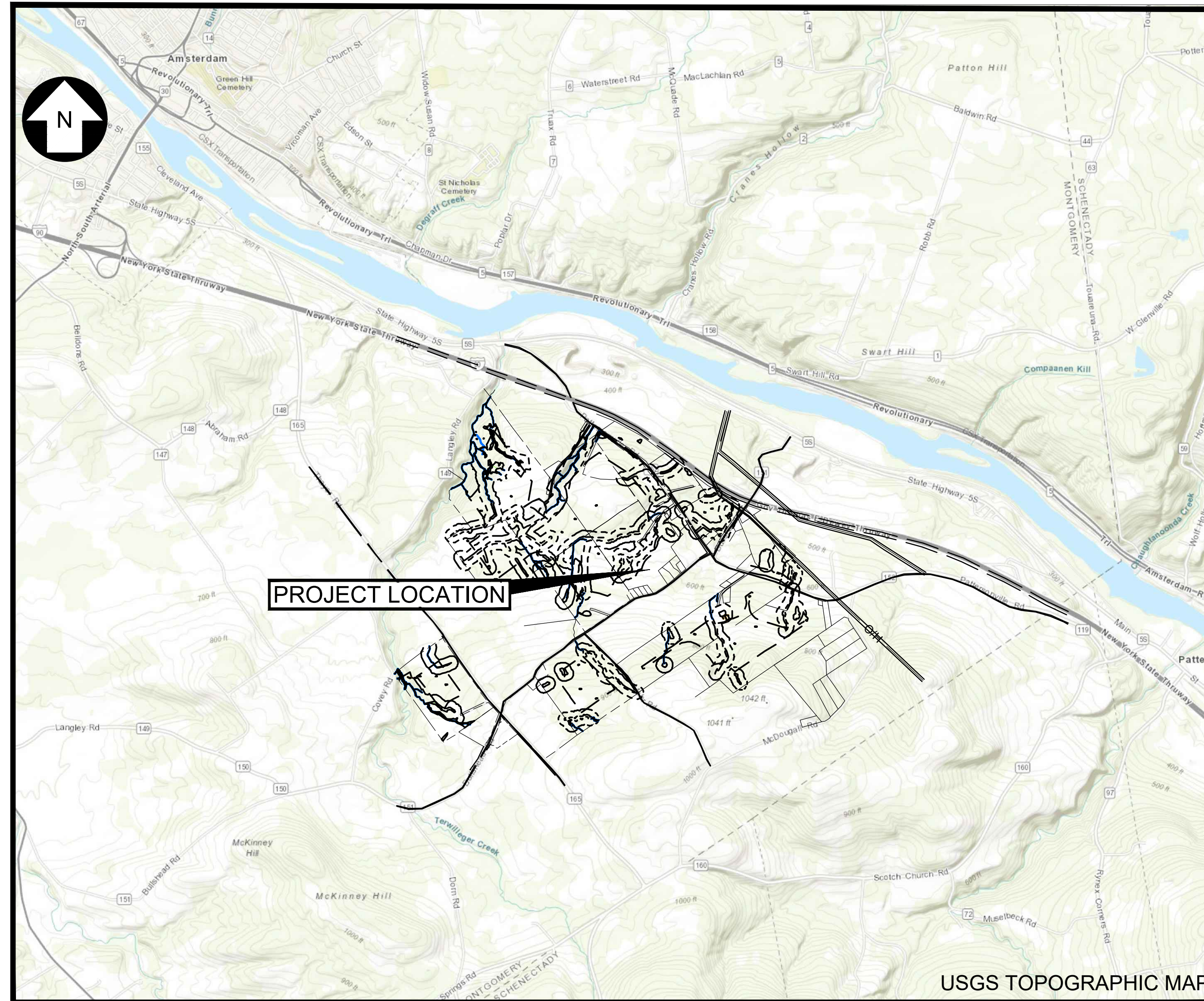
HIGH RIVER ENERGY CENTER

TOWN OF FLORIDA
MONTGOMERY COUNTY, NEW YORK

LAT: 42.900376°

LONG: -74.144362°

PREPARED FOR:
HIGH RIVER ENERGY CENTER, LLC
700 UNIVERSE BLVD.
JUNO BEACH, FL 33408



LOCATION MAP
N.T.S.

PRELIMINARY
NOT FOR CONSTRUCTION



TRC 249 Western Avenue
Agusta, ME 04330

PROJECT NO: 327851

REV	DESCRIPTION	DATE	DES	CHK	APP
F	ISSUED FOR ARTICLE 10 SUBMISSION	09-12-19	CMW	PGT	
E	ISSUED FOR CLIENT REVIEW	08-21-19	SEK	PGT	
D	ISSUED FOR CLIENT REVIEW	08-09-19	CMW	PGT	
C	ISSUED FOR CLIENT REVIEW	07-19-19	CMW	PGT	

PGT DESIGNED	PRELIMINARY COVER SHEET HIGH RIVER ENERGY CENTER HIGH RIVER ENERGY CENTER, LLC MONTGOMERY CO., NY		G-001	REV. F
ESB DRAWN				
CHECKED				
APPROVED				
REVIEW 1	04/08	DATE	AS NOTED	SCALE
REVIEW 2				

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

GENERAL DRAWING INDEX:

- G-001 COVER SHEET
- G-002 DRAWING INDEX
- G-003 GENERAL NOTES & LEGEND

CIVIL DRAWING INDEX:

- C-001 OVERALL SITE LAYOUT & KEY SHEET
- C-002 EXISTING CONDITIONS & CLEARING PLAN
- C-003 THRU 036 SITE PLAN
- C-037 THRU 066 GRADING AND DRAINAGE PLANS
- C-067 CIVIL DETAILS 1
- C-068 CIVIL DETAILS 2
- C-069 SOLAR RACKING DETAILS
- C-070 FENCING DETAILS
- C-071 EROSION & SEDIMENTATION CONTROL DETAILS 1
- C-072 EROSION & SEDIMENTATION CONTROL DETAILS 2
- C-073 EROSION & SEDIMENTATION CONTROL DETAILS 3
- C-074 EROSION & SEDIMENTATION CONTROL DETAILS 4

LANDSCAPING DRAWING INDEX:

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- L-002 THRU 004 LANDSCAPE SCREENING PLAN - SCREENING SCENARIOS
- L-005 LANDSCAPE NOTES, DETAILS & PLANTING SCHEDULES
- L-006 THRU 007 LANDSCAPING SCREENING TEMPLATES & PLANTING SCHEDULES

SUBSTATION DRAWING INDEX:

- S-001 COLLECTOR SUBSTATION POWER ONE-LINE DIAGRAM
- S-002 COLLECTOR SUBSTATION GENERAL ARRANGEMENT PLAN
- S-003 COLLECTOR SUBSTATION ELEVATIONS & SECTIONS A-A AND B-B
- S-004 COLLECTOR SUBSTATION ELEVATIONS & SECTIONS C-C AND D-D
- S-005 COLLECTOR SUBSTATION YARD LIGHTING PLAN
- S-006 COLLECTOR SUBSTATION FENCE & GROUNDING PLAN
- S-007 COLLECTOR SUBSTATION FENCE & GROUNDING DETAILS
- S-008 COLLECTOR SUBSTATION CONTROL HOUSE ELECTRICAL LAYOUT PLAN
- S-009 SWITCHYARD SUBSTATION POWER ONE-LINE DIAGRAM
- S-010 SWITCHYARD SUBSTATION GENERAL ARRANGEMENT PLAN
- S-011 SWITCHYARD SUBSTATION SECTIONS A-A AND B-B
- S-012 SWITCHYARD SUBSTATION SECTIONS C-C, D-D, AND E-E
- S-013 SWITCHYARD SUBSTATION LIGHTING PLAN
- S-014 SWITCHYARD SUBSTATION FENCE & GROUNDING PLAN
- S-015 SWITCHYARD SUBSTATION FENCE & GROUNDING DETAILS
- S-016 SWITCHYARD SUBSTATION CONTROL HOUSE ELECTRICAL LAYOUT PLAN

COLLECTION SYSTEM DRAWING INDEX:

- CS-001 COLLECTION TRENCH, BORING AND CROSSING DETAILS
- CS-002 COLLECTION SYSTEM WETLAND CROSSING DETAIL
- CS-003 COLLECTION SYSTEM SECTIONALIZING ENCLOSURE
- CS-004 COLLECTION SYSTEM GROUNDING DETAILS

TRANSMISSION DRAWING INDEX:

- T-001 TYPICAL NATIONAL GRID TRANSMISSION TYPE (VI.ST.D1) STR.
- T-002 TYPICAL NATIONAL GRID TRANSMISSION TYPE (D2.ST.DE) STR.
- T-003 PLAN & PROFILE DRAWING

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327851-HIGH RIVER-GEN-002.dwg 2019.09.27

249 Western Avenue Agusta, ME 04330		PROJECT NO: 327851				PGT DESIGNED ESB DRAWN CHECKED APPROVED	PRELIMINARY DRAWING INDEX HIGH RIVER ENERGY CENTER HIGH RIVER ENERGY CENTER, LLC FLORIDA MONTGOMERY CO., NY																																
		<table border="1"> <thead> <tr> <th>REFERENCE ITEMS</th> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DES</th> <th>CHK</th> <th>APP</th> </tr> </thead> <tbody> <tr> <td></td> <td>F</td> <td>ISSUED FOR ARTICLE 10 SUBMISSION</td> <td>09-12-19</td> <td>CMW</td> <td>PGT</td> <td></td> </tr> <tr> <td></td> <td>E</td> <td>ISSUED FOR CLIENT REVIEW</td> <td>08-21-19</td> <td>SEK</td> <td>PGT</td> <td></td> </tr> <tr> <td></td> <td>D</td> <td>ISSUED FOR CLIENT REVIEW</td> <td>08-09-19</td> <td>CMW</td> <td>PGT</td> <td></td> </tr> <tr> <td></td> <td>C</td> <td>ISSUED FOR CLIENT REVIEW</td> <td>07-19-19</td> <td>CMW</td> <td>PGT</td> <td></td> </tr> </tbody> </table>	REFERENCE ITEMS	REV	DESCRIPTION		DATE	DES	CHK	APP		F	ISSUED FOR ARTICLE 10 SUBMISSION	09-12-19	CMW	PGT			E	ISSUED FOR CLIENT REVIEW	08-21-19	SEK	PGT			D	ISSUED FOR CLIENT REVIEW	08-09-19	CMW	PGT			C	ISSUED FOR CLIENT REVIEW	07-19-19	CMW	PGT		REVIEW 1 DATE AS NOTED REVIEW 2 SCALE
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GENERAL NOTES:

SURVEY NOTES:

- PROPERTY BOUNDARY SURVEY INFORMATION PROVIDED BY CT MALE ASSOCIATES DATED JUNE 2019.
- TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY DUDEK DATED MAY 2019.
- WETLAND BOUNDARY INFORMATION PROVIDED BY TRC DATED MAY 2018.
- ZONING BOUNDARY INFORMATION OBTAINED FROM THE TOWN OF FLORIDA ZONING MAPS.
- SOILS INFORMATION FROM USDA-NRCS WEB SOIL SURVEY FOR MONTGOMERY COUNTY, NY DATED SEPTEMBER 3, 2018.
- FLOOD ZONE CLASSIFICATION: SITE LIES OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN (ZONE X); AS SHOWN ON THE FOLLOWING MAPS NUMBERED:

36057C0212E - DATED JANUARY 19, 2018
36057C0215E - DATED JANUARY 19, 2018
36057C0216E - DATED JANUARY 19, 2018
36057C0217E - DATED JANUARY 19, 2018
36057C0238E - DATED JANUARY 19, 2018
- HORIZONTAL DATUM: NEW YORK STATE PLANE, EAST ZONE, NAD83 U.S. FOOT. VERTICAL DATUM: NAVD88.

SWPPP NOTE:

THE EROSION AND SEDIMENTATION CONTROL MEASURES FOR THIS PROJECT SHALL BE IN SUBSTANTIAL COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THE PROJECT IN ACCORDANCE WITH NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY (GP-0-15-002) OR GP IN EFFECT AT COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

REMOVAL NOTES:

- TREES AND OTHER VEGETATION MAY BE REDUCED TO CHIPS BY THE USE OF CHIPPING MACHINES OR STUMP GRINDER AND USED AS REQUIRED FOR EROSION CONTROL. ALL OTHER CHIPS AND WOOD WASTE RESULTING FROM REMOVAL OPERATIONS SHALL BE DISPOSED OF OFF-SITE AT A FACILITY AND IN A MANNER APPROVED BY THE OWNER.
- ALL DEMOLITION WASTE, DEBRIS AND RUBBISH SHALL BE PROPERLY REMOVED FROM THE SITE AS IT OCCURS. ALL MATERIALS SHALL BE PROPERLY DISPOSED OF OFF-SITE IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
- TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING IMPROVEMENTS AND FACILITIES TO REMAIN IN PLACE. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND REPLACEMENT OF DAMAGED ITEMS AS A RESULT OF CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.

SAFETY NOTE:

PORTIONS OF THE WORK WILL BE CARRIED OUT NEAR AND UNDER ENERGIZED EQUIPMENT. EXTREME CAUTION IS REQUIRED AT ALL TIMES. THE CONTRACTOR SHALL STRICTLY FOLLOW ALL NATIONAL GRID SAFETY REQUIREMENTS WHEN WORKING WITHIN NATIONAL GRID RIGHT OF WAY. FAILURE TO DO SO WILL RESULT IN TERMINATION.

EARTHWORK:

UNLESS INDICATED OTHERWISE, REFER TO THE LATEST EDITION OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS FOR GENERAL REQUIREMENTS, PRODUCTS AND EXECUTION RELATED TO CONSTRUCTION OF BUT NOT LIMITED TO: CLEARING, GRUBBING, ROADS, UTILITY TRENCH EXCAVATION, BORROW, SUBGRADE, SUBBASE, GRANULAR FILL, AND AGGREGATE BASE.

PROJECT CONSTRUCTION SEQUENCING NOTES:

THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCING OR CONSTRUCTION PHASING PLAN FOR OWNER APPROVAL THAT COMPLIES WITH PERMITTING REQUIREMENTS. THE PLAN SHALL SHOW THAT ACTIVE LAND DISTURBANCE ACTIVITIES WILL BE LIMITED TO LESS THAN FIVE (5) ACRES IN SIZE AND SHALL DISCUSS BUT IS NOT LIMITED TO THE FOLLOWING:

- THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS FOR TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED AND THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
- PRIOR TO THE START OF ONSITE EARTHWORK ACTIVITIES, THE CONTRACTOR SHALL ESTABLISH THE CONSTRUCTION WORKSPACE LIMITS AND IDENTIFY AND MARK SENSITIVE RESOURCES.
- THE CONTRACTOR SHALL INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs) IN ORDER TO PROTECT DOWN GRADIENT AREAS.
- AFTER PERMANENT EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED AND FUNCTIONING ON THE CURRENT CONSTRUCTION PHASE, THE CONTRACTOR SHALL OBTAIN OWNER APPROVAL PRIOR TO BEGINNING EARTHWORK ON THE SUBSEQUENT CONSTRUCTION PHASE.

EXISTING	LEGEND	PROPOSED
	PROPERTY/ROW LINE	
	SETBACK LINE	
	EASEMENT LINE	
	LIMIT OF DISTURBANCE	
	EDGE OF PAVEMENT	
	CURBING	
	EDGE OF GRAVEL	
	CONTOUR MINOR	
	CONTOUR MAJOR	
	BUILDING	
	STONEWALL	
	TREELINE	
	CHAIN LINK FENCE	
	CULVERT	
	OVERHEAD ELECTRIC	
	UTILITY POLE	
	UTILITY POLE W/ GUY	
	UTILITY POLE W/ LIGHT	
	LIGHT POLE	
	BOLLARD	
	SOILS	
	STREAM	
	200' STREAM BUFFER	
	EDGE OF WETLANDS	
	200' WETLAND BUFFER	
	DELINEATED WETLANDS/WATERBODIES	
	DRAINAGE FLOW	
	INFILTRATION TRENCH	
	SIGN	
	MAILBOX	
	STONE CHECK DAM	
	SILT FENCE	
	COLLECTOR LINE	
	TEST PIT	
	SOIL BORING	
	VERNAL POOL	
	STABILIZED PERVIOUS ROAD SECTION	

HIGH RIVER SYSTEM SPECIFICATIONS	
SYSTEM STC DC RATING	113.15 (MW)
SYSTEM AC CAPACITY	97.02(MW)
SYSTEM AC RATING AT POI	90.00
DC/AC RATIO AT POI	1.26
MODULE MODEL	JINKO 415W / SAFE HARBOR 370W
MODULE STC DC RATING	415/ 370 (W)
MODULE COUNT	273520 (265460 / 8060)
MODULES PER STRING	26
STRING COUNT	10520
3 STRING TRACKER	1468
2 STRING TRACKER	421
1 STRING TRACKER	464
FIXED TILT (2 STRINGS PER ARRAY)	2405
INVERTER MODEL	PE FS3350MVA 1500V
INVERTER RATING	3.465 (MW)
QUANTITY OF INVERTERS	28.00
TRANSFORMER RATING	3.75 (MVA)
QUANTITY OF TRANSFORMERS	28.00
DC SYSTEM VOLTAGE	1500 (V)
INTERCONNECTION VOLTAGE	34.5/115 (KV)
TRANSMISSION LENGTH	500 (FEET)
RACKING SYSTEM	FIXED TILT (2x10 PORTRAIT) - (117000 / 8060 MODULES TRACKER (1 HIGH IN PORTRAIT) - (148460 MODULES)
MODULE TILT	FIXED - 25° TRACKER - -60° TO 60°
AZIMUTH	FIXED - 180° TRACKER - 0° AXIS
ROW-TO-ROW SPACING (LF)	FIXED - 15.67 TRACKER - 12.96
ASHRAE 2% DESIGN BULB TEMP MAX	31° (C)
ASHRAE EXTREME ANNUAL MEAN MINIMUM DRY-BULB TEMP	-23° (C)
PROPERTY AREA	1124.76 (AC)
FENCED AREA	480 (AC)
FENCING LENGTH	80,771 (LF)
ROADS	34,633 (LF)

CUT AND FILL REPORT			
NAME	CUT	FILL	NET
	(Cu. Yd.)	(Cu. Yd.)	(Cu. Yd.)
AREA 1	96.86	1577.44	1480.58<Fill>
AREA 2 & 2A	38430.28	54763.78	16333.49<Fill>
AREA 3	3102.80	15364.69	12261.90<Fill>
AREA 4	237587.79	237935.03	347.25<Fill>
AREA 5	2240.28	8681.78	6441.49<Fill>
AREA 6	395.64	13698.90	13303.26<Fill>
AREA 6A	40.72	1745.73	1705.01<Fill>

327851-HIGH RIVER-GEN-003.dwg 2018.08.13

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PGT DESIGNED ESB DRAWN PMM CHECKED APPROVED	PRELIMINARY GENERAL NOTES & LEGEND HIGH RIVER SOLAR NEXTERA ENERGY MONTGOMERY CO., NY		FLORIDA	TRC	G-003	REV. F
	REVIEW 1 DATE 04/11 REVIEW 2 SCALE	AS NOTED				

