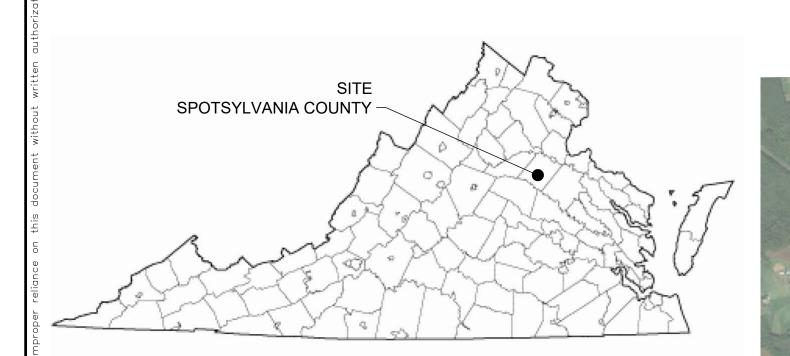
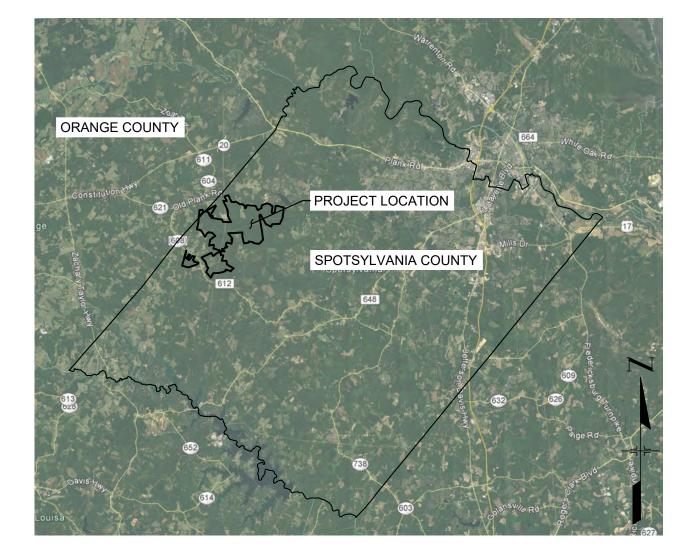
GENERALIZED DEVELOPMENT PLANS

SPOTSYLVANIA SOLAR ENERGY CENTER A SPECIAL USE PERMIT - SUP 18-0001

LIVINGSTON MAGISTERIAL DISTRICT SPOTSYLVANIA COUNTY, VA





VICINITY MAP - SPOTSYLVANIA COUNTY, VA

OWNER/APPLICANT

2180 SOUTH 1300 EAST, SUITE 600 SALT LAKE CITY, UT 84106 PHONE: 801-679-3513 CONTACT: DANIEL MENAHEM EMAIL: DMENAHEM@SPOWER.COM

CIVIL ENGINEER

CONTACT: SEAN MILLOT, P.E.

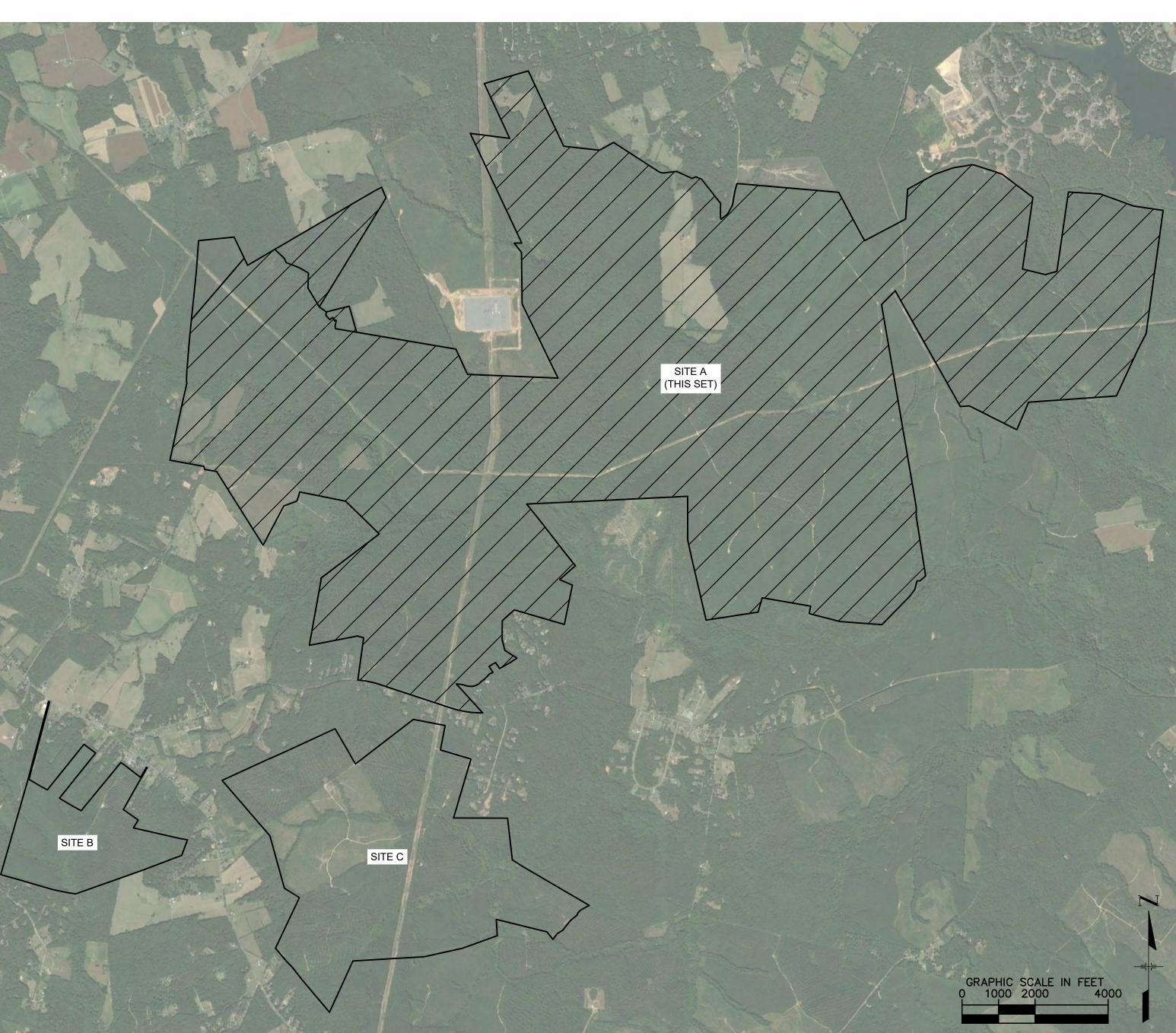
RESTON, VA 20191 PHONE: 703-674-1337

11400 COMMERCE PARK DRIVE, SUITE 400

EMAIL: SEAN.MILLOT@KIMLEY-HORN.COM

SPOTSYLVANIA SOLAR E	ENERGY CENTER
OWNER	sPOWER
EXISTING AND PROPOSED ZONING	AGRICULTURE 3 (A-3)
EXISTING USE	SILVICULTURE
PROPOSED USE	SOLAR ENERGY FACILITY
TOTAL POWER TO BE GENERATED	500 MEGAWATTS AC (MWac)
OVERALL PROJECT SITE DATA:	
PROPERTY AREA	6,350 ACRES
DISTURBED AREA	3,500 ACRES
POWER GENERATED	500 MWac
SITE A DATA:	
PROPERTY AREA	5,200 ACRES
DISTURBED AREA	2,800 ACRES
POWER GENERATED	400 MWac
SITE B DATA:	
PROPERTY AREA	245 ACRES
DISTURBED AREA	200 ACRES
POWER GENERATED	30 MWac
SITE C DATA:	
PROPERTY AREA	905 ACRES
DISTURBED AREA	500 ACRES

POWER GENERATED



VICINITY MAP - PROJECT LIMITS

Sheet No.	Sheet Title
C-01	GENERALIZED DEVELOPMENT PLAN COVER
EX-1-0	GENERALIZED DEVELOPMENT PLAN - OVERALL
EX-1-1	GENERALIZED DEVELOPMENT PLAN - 1
EX-1-2	GENERALIZED DEVELOPMENT PLAN - 2
EX-1-3	GENERALIZED DEVELOPMENT PLAN - 3
EX-1-4	GENERALIZED DEVELOPMENT PLAN - 4
EX-1-5	GENERALIZED DEVELOPMENT PLAN - 5
EX-1-6	GENERALIZED DEVELOPMENT PLAN - 6
EX-1-7	GENERALIZED DEVELOPMENT PLAN - 7
EX-1-8	GENERALIZED DEVELOPMENT PLAN - 8
EX-1-9	GENERALIZED DEVELOPMENT PLAN - 9
EX-2-0	PRESERVATION AREA PLAN
EX-2-1	LANDSCAPE AND BUFFER AREA PLAN
EX-2-2	ACCESS ROAD SERVICE AREAS
EX-2-3	COUNTY TRAIL OVERLAY MAP
CD-1	CIVIL DETAILS
SHEETS 1-17	ALTA SURVEY

OWNER INFORM	ATION - SITE A	PROJEC	T INFORMAT	ΓΙΟΝ - SITE A	A			
OWNER	TAX MAP PARCEL NUMBER		AIRPORT	S				
	28-A-71	NO KNOWN AIRPORTS WITHIN A 5-MILE RADIUS OF SITE A.						
	29-A-2A	CULTURAL RESOURCES						
	29-A-2A	TWO KNOWN PLACES OF BURIAL ON OR NEAR PROXIMITY OF PROJECT.						
	28-A-77	NO HISTORIC BUILDINGS EXIST AT THE PROJECT SITE.						
	16-A-1	TRAFFIC INFORMATION						
		VOLUMES SUBJECT TO CHANGE BASED ON TRAFFIC IMPACT STUDY RESULTS						
	29-A-24	SEE TRAFFIC IMPACT ANALYSIS AND EXHIBITS FOR ADDITIONAL						
RIVEROAK TIMBERLAND	29-A-25	TRAFFIC DISTRIBUTION A • PROPOSED CONSTRUCT	R DAY					
INVESTMENTS LLC	29-A-26		MPERVIOUS A	REAS*				
	29-A-27		TOTAL	AREA (SF)	AREA (AC)			
	17-A-47	SOLAR PANEL POST**	TOTAL	7111271 (61)	7111271 (710)			
	29-A-28	(0.11 SF EACH)	217,680	23,945	0.55			
	29-A-22 18-A-15	INVERTER PAD	195	78,000	1.79			
	18-A-20	(40' X 10')		,				
	29-A-7	GRAVEL DRIVES (12' WIDTH) 215,439 LF 2,585,268		2,585,268	59.35			
	28-A-1	TOTAL IMP	ERVIOUS ACRES	}	61.69			
CHARLES WOOLFREY CONSTRUCTION INC	28-A-78	TOTAL IMPE	1.19%					
ROBERT S COLEMAN JR	29-A-1	*IMPERVIOUS AREAS SHO						
GARY THOMAS WOOLFREY	28-A-79	ONLY, NOT TO BE USED I			THE SOLAR			
	30-A-1	PANELS ARE TO BE USED	REA. ASSUMED					
GOODWIN BROTHERS LUMBER COMPANY, LLC	18-A-16	SPACING OF 15' SUBJECT TO FINAL ENGINEERING.						
·	17-A-4	WATER QUALITY (VRRM)*** TP LOAD REDUCTION REQUIRED (LB/YR)			277.00			
	17-A-4				377.09			
MEADOWO ENTERDRICES	17-A-3 17-5-19	ACRES PLACED IN CONS	1,173.01					
MEADOWS ENTERPRISES		***WATER QUALITY VALUES SHOWN FOR THE SITE ARE FOR PRELIMINARY USE ONLY, NOT TO BE USED FOR DESIGN PURPO						
	17-A-3A 17-A-48			3223.0111				

SOLID WASTE DISPOSAL CALCULATIONS FOR CONSTRUCTION

	Step 3: Id	dentifi	cation of Collection	Meth	bod		100		Step 2: Determin	natio	n of Minimum Sto	rage	Capacity		
Container Type							Determination	on of	Minimum Storage Cor	itain	er and/or Dumpst	er Siz	e (With Onsit	te Re	cycle Program)
(Compactors, Roll Off, Dumpsters, Carts)	Size (Cubic Yards)		Number of Containers		Number of kups Per Week	Material (Trash or Recycle)	Combined Annual Waste Stream		Cubic Yards Per Ton		Number of Annual Collections		Number of Containers (Minimum		Minimum Size of Each Storage Container or Dumpster
Dumpsters	40 YD	-	2		1	Trash	Transaction Statement	X 4.44 rmination of Minimum Stora			(Minimum 52)		2)		(Cubic Yards)
Dumpsters	40 YD		8		2	Recycle	3.25	Х	4.44	÷	52	+	2	=	0.14
							Determina	tion	of Minimum Storage C	ontai	iner and/or Dump	ster S	Size (Without	Recy	ele Program)
generate	Non Reside The purpose of this d from a proposed pro	report ject an		ion R nnual v	waste stream etion service is pr	ovided.	Combined Annual Waste Stream		Cubic Yards Per Ton		Number of Annual Collections (Minimum 52)		Number of Containers (Minimum 1)		Minimum Size of Each Storage Container or Dumpster (Cubic Yards)
	Step 1: Deter	minati	on of Annual Wast	e Gen	eration		3.25	x	4,44		52	-	15		0.28
Complete the table for	or the proposed project	being :	submitted. In the col	lumn la	abeled "Floor Are	ea" enter the amount	2000			ccom		Angi	to recogling		9.20
of square feet being "Annual Waste Gene	or the proposed project occupied by each use, eration Rate" column, a al Tonnage" column an	Multip and the	ly each square foota n list the value in "A the total next to "C Annual Waste	ge figu Annual	are by the corresp Tonnage" columned Annual Waste	onding value in the in. Add all values in e Stream."	Per design standa Sufficient area sh	rd the	e project must provide a e provided at the collecti 1 1/2 of the total capacity	on ce	modation for future inter to accommoda	on an	ninimum of tw d 1/2 of the tot		containers or more,
of square feet being "Annual Waste Gene the "Annua	occupied by each use, eration Rate" column, a al Tonnage" column an Floor Area	Multip and the	ly each square foota n list the value in "A the total next to "C Annual Waste Generation Rate	ge figu Annual	are by the corresp Tonnage" columned Annual Waste Annual Waste	onding value in the in. Add all values in Stream."	Per design standa Sufficient area sh of equal capacity, recycle collection	rd the all be with	e project must provide a e provided at the collecti 1 1/2 of the total capacity	on ce	modation for future inter to accommodal for refuse collection	on an	minimum of tw d 1/2 of the tot thod		containers or more, pacity used for
of square feet being. "Annual Waste Gene the "Annual Building Use	occupied by each use, ration Rate" column, a al Tonnage" column an Floor Area (square feet)	Multip and the	y each square foota n list the value in "A the total next to "C Annual Waste Generation Rate (tons/sq ft)	ge figu Annual	Tonnage" columned Annual Waste	conding value in the in. Add all values in a Stream."	Per design standa Sufficient area sh of equal capacity, recycle collection Container Typ (Compactors, R.	rd the all be with	e project must provide ac e provided at the collection 1/2 of the total capacity Step 3: Ide	on ce	modation for future inter to accommodal for refuse collection cation of Collection Number of	nte a r on an	ninimum of tw d 1/2 of the tot thod Number of	al ca	eontainers or more, pacity used for Material
of square feet being "Annual Waste Genethe "Annual Building Use Office	occupied by each use, eration Rate" column, a al Tonnage" column an Floor Area	Multip and the d enter	ly each square foota n list the value in "A the total next to "C Annual Waste Generation Rate (tons/sq ft) 0.0013	ge figu Annual	Tonnage" columned Annual Waste	onding value in the m. Add all values in 9 Stream." de Generation Rate Tons) 3.25	Per design standa Sufficient area sh of equal capacity, recycle collection Container Typ (Compactors, R. Off,	rd the all be with	e project must provide ac e provided at the collecti 1/2 of the total capacity Step 3: Ide	on ce	modation for future inter to accommodal for refuse collection	nte a r on an	minimum of tw d 1/2 of the tot thod	al ca	containers or more, pacity used for
of square feet being "Annual Waste Gene the "Annual Building Use Office Industrial	occupied by each use, ration Rate" column, a al Tonnage" column an Floor Area (square feet)	Multip and the d enter	y each square foota n list the value in "A" the total next to "C Annual Waste Generation Rate (tons/sq ft) 0.0013	ge figu Annual	Tonnage" columned Annual Waste	onding value in the m. Add all values in stream." c Generation Rate Tons) 3.25	Per design standa Sufficient area sh of equal capacity, recycle collection Container Typ (Compactors, R. Off, Dumpsters, Car	rd the all be with	e project must provide ac provided at the collection 1/2 of the total capacity Step 3: Ide Size (Cubic Yards)	on ce	modation for future nter to accommode I for refuse collection cation of Collection Number of Containers	nte a r on an	thod Number of ickups Per Wee	al ca	containers or more, pacity used for Material (Trash or Recycle)
of square feet being "Annual Waste Gene the "Annual Building Use Office Industrial Food/Retail	occupied by each use, ration Rate" column, a al Tonnage" column an Floor Area (square feet)	Multip and the d enter	ly each square foota, n list the value in "A" the total next to "C Annual Waste Generation Rate (tons/sq ft) 0.0013 0.0016 0.0057	ge figu Annual	Tonnage" columned Annual Waste	onding value in the in. Add all values in Stream." e Generation Rate Tons) 3.25 0 0	Per design standa Sufficient area sh of equal capacity, recycle collection Container Typ (Compactors, R. Off,	rd the all be with	e project must provide ac e provided at the collection 1/2 of the total capacity Step 3: Ide	on ce	modation for future inter to accommodal for refuse collection cation of Collection Number of	nte a r on an	ninimum of tw d 1/2 of the tot thod Number of	al ca	eontainers or more, pacity used for Material
of square feet being "Annual Waste Gene the "Annual Building Use Office Office Office Food/Retail Public Facility	occupied by each use, ration Rate" column, a al Tonnage" column an Floor Area (square feet)	Multip and the ad enter	ly each square foota. It is the value in "A the total next to "C Annual Waste Generation Rate (tons/sq ft) 0.0013 0.0016 0.0057 0.00105	ge figu Annual	Tonnage" columned Annual Waste	onding value in the m. Add all values in Stream." e Generation Rate Tons) 3.25 0 0	Per design standa Sufficient area sh of equal capacity, recycle collection Container Typ (Compactors, R. Off, Dumpsters, Car	rd the all be with	e project must provide ac provided at the collection 1/2 of the total capacity Step 3: Ide Size (Cubic Yards)	on ce	modation for future nter to accommode I for refuse collection cation of Collection Number of Containers	nte a r on an	thod Number of ickups Per Wee	al ca	containers or more, pacity used for Material (Trash or Recycle)
of square feet being "Annual Waste Gene the "Annual Building Use Office Industrial Food/Retail	occupied by each use, ration Rate" column, a al Tonnage" column an Floor Area (square feet)	Multip and the d enter	ly each square foota, n list the value in "A" the total next to "C Annual Waste Generation Rate (tons/sq ft) 0.0013 0.0016 0.0057	ge figu Annual Combin	Tonnage" columned Annual Waste	onding value in the in. Add all values in Stream." e Generation Rate Tons) 3.25 0 0	Per design standa Sufficient area sh of equal capacity, recycle collection Container Typ (Compactors, R. Off, Dumpsters, Car	rd the all be with	e project must provide ac provided at the collection 1/2 of the total capacity Step 3: Ide Size (Cubic Yards)	on ce	modation for future nter to accommode I for refuse collection cation of Collection Number of Containers	nte a r on an	thod Number of ickups Per Wee	al ca	containers or more, pacity used for Material (Trash or Recycle)

		Step 2: Determi	natio	n of Minimum Ste	rage	Capacity		
Determination	on of	Minimum Storage Cor	ıtain	er and/or Dumpst	er Siz	e (With Onsit	e Re	
Combined Annual Waste Stream		Cubic Yards Per Ton		Number of Annual Collections (Minimum 52)		Number of Containers (Minimum 2)		Minimum Size of Each Storage Container or Dumpster (Cubic Yards)
3.25	Х	4.44	÷	52	+	2	=	0.14
Determina	tion :	of Minimum Storage C	onta	iner and/or Dump	ster 5	Size (Without	Recy	cle Program)
Combined Annual Waste Stream		Cubic Yards Per Ton		Number of Annual Collections (Minimum 52)		Number of Containers (Minimum 1)		Minimum Size of Each Storage Container or Dumpster (Cubic Yards)
		4.44 project must provide a					-	0.28
Per design standa Sufficient area sh of equal capacity.	rd the	project must provide a provided at the collecti 1/2 of the total capacity	on ce	modation for future inter to accommoda I for refuse collecti	e onsi nte a r on an	ninimum of tw d 1/2 of the tot	o (2)	containers or more,
Per design standa Sufficient area sh	rd the all be with	project must provide a provided at the collecti 1/2 of the total capacity	on ce	modation for future enter to accommoda	e onsi nte a r on an	ninimum of tw d 1/2 of the tot	o (2) al ca	containers or more,

SHEET NUMBER

