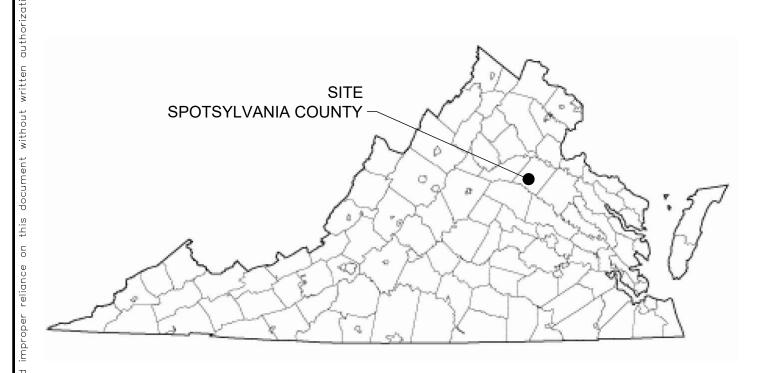
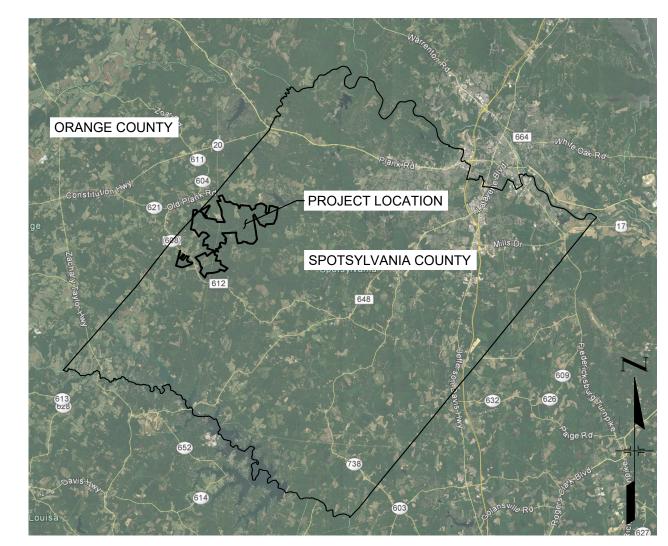
## GENERALIZED DEVELOPMENT PLANS SPOTSYLVANIA SOLAR ENERGY CENTER B SPECIAL USE PERMIT - SUP 18-0002 LIVINGSTON MAGISTERIAL DISTRICT SPOTSYLVANIA COUNTY, VA





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

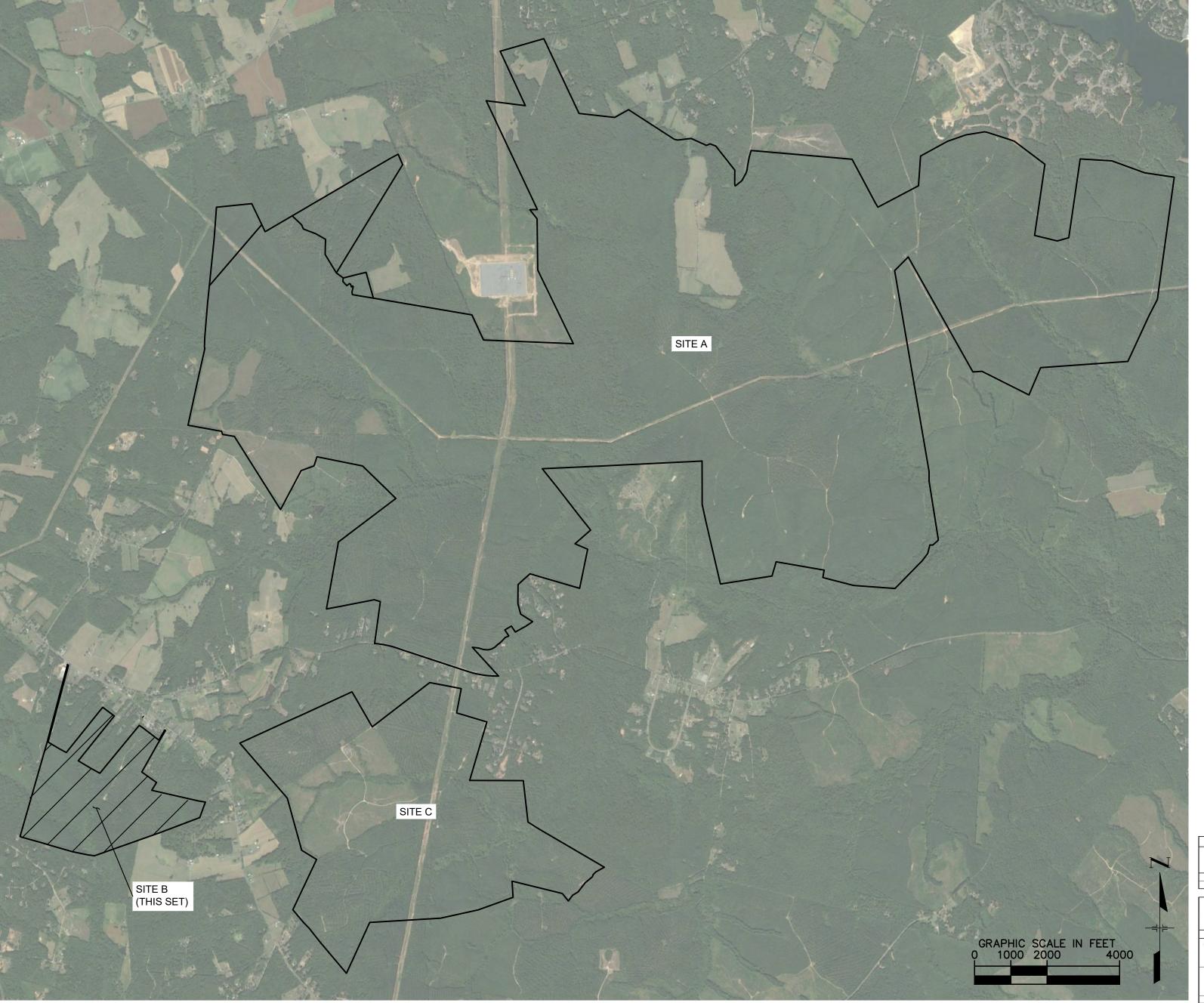
CIVIL ENGINEER KIMLEY-HORN AND ASSOCIATES, INC. 11400 COMMERCE PARK DRIVE, SUITE 400

EMAIL: SEAN.MILLOT@KIMLEY-HORN.COM

RESTON, VA 20191 PHONE: 703-674-1337

SPOTSYLVANIA SOLAR 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 List Table							
Sheet No.	Sheet Title						
C-01	GENERALIZED DEVELOPMENT PLAN COVER						
EX-2-1	GENERALIZED DEVELOPMENT PLAN						
EX-2-2	PRESERVATION AREA PLAN						
EX-2-3	LANDSCAPE AND BUFFER AREA PLAN						
EX-2-4	ACCESS ROAD SERVICE AREAS						
CD-1	CIVIL DETAILS						
SHEETS 1-17	ALTA SURVEY						

OW	/NER INFORMAT	ΓΙΟΝ					
OWNER	TAX MAP PARCEL NUMBER						
RIVEROAK TIMBERLAND INV	ESTMENTS LLC	28-A-58					
NO KNOWN AIRPORTS WITHIN 5-MILES RADIUS OF SITE B.							
CUL	TURAL RESOUF	RCES					
NO KNOWN HISTORIC BUILDII	NGS OR FEATURES	S WITHIN PROXI	MITY OF SITE.				
TRA	AFFIC INFORMA	TION					
• VOLUMES SUBJECT TO CHA	NGE BASED ON TR	RAFFIC IMPACT	STUDY				
RESULTS • SEE TRAFFIC IMPACT ANAL' DISTRIBUTION AND RECOMM • PROPOSED CONSTRUCTION	ENDATIONS						
IM	PERVIOUS ARE	AS*					
	TOTAL	AREA (SF)	AREA (AC)				
SOLAR PANEL POST** (0.11 SF EACH)	16326	1796	0.04				
INVERTER PAD (40' X 10')	4	1600	0.04				
GRAVEL DRIVES (12' WIDTH)	5074 LF	60888	1.40				
TOTAL IMPE	RVIOUS ACRES		1.48				
TOTAL IMPER	VIOUS % OF SITE		0.60%				
*IMPERVIOUS AREAS SHOWN ONLY, NOT TO BE USED FOR **PER DEQ REGULATIONS, ON ARE TO BE USED TO CALCUL 15' SUBJECT TO FINAL ENGIN	DESIGN PURPOSE NLY POLE MOUNTII ATE IMPERVIOUS A	S. NGS FOR THE S	OLAR PANELS				
WATE	ER QUALITY (VR	RM)***					
TP LOAD REDUCTI	ON REQUIRED (LB/	YR)	-29.56				
ACRES PLACED IN CONSERVATION AREA							

ACCORDING TO THE SPOTSYLVANIA "TRAILWAYS MASTER PLAN", NO TRAILS ARE PLANNED WITHIN SITE B.

## SOLID WASTE DISPOSAL CALCULATIONS FOR CONSTRUCTION.

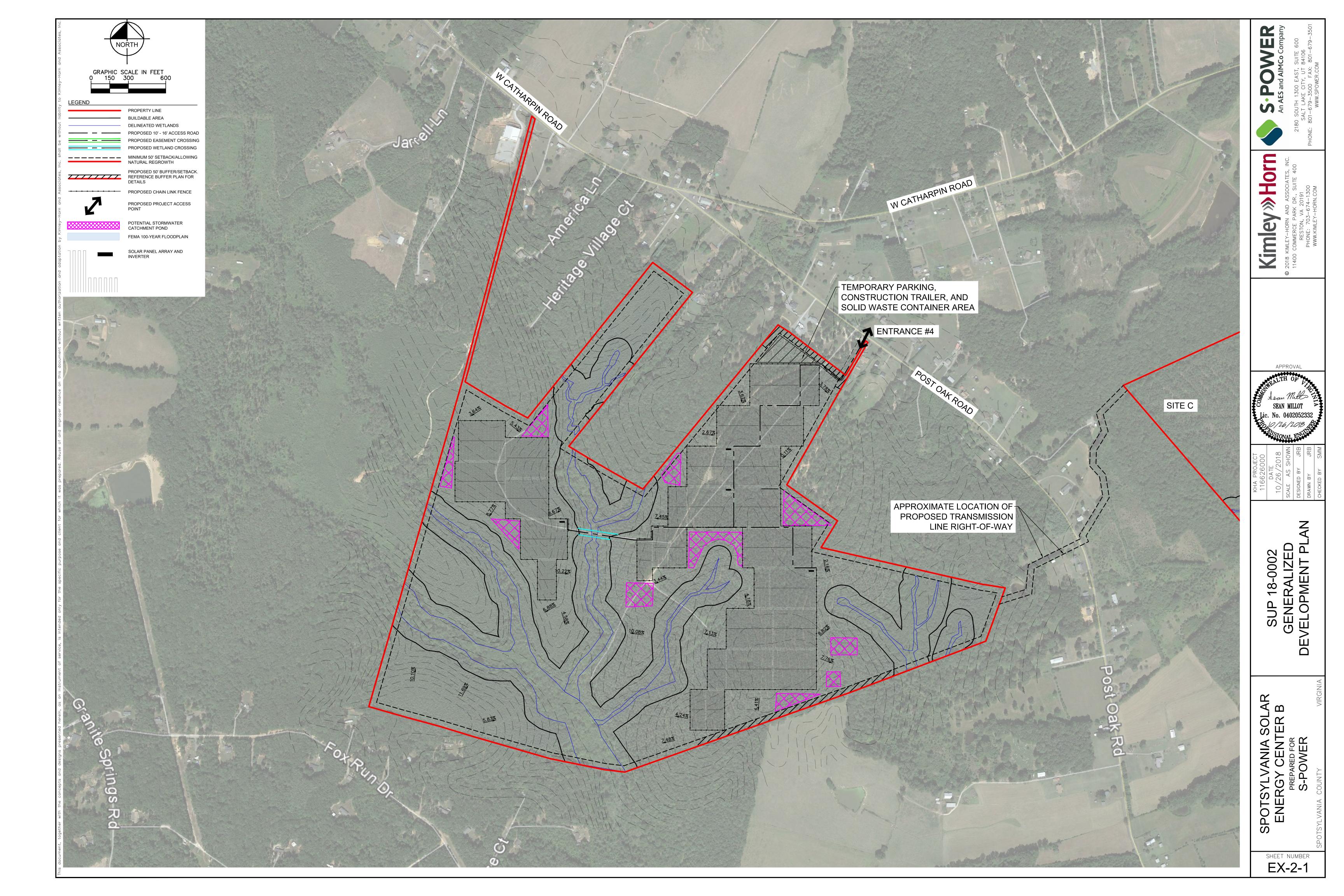
Step 3: Identification of Collection Method							Step 2: Determination of Minimum Storage Car							
Container Type							Determination of Minimum Storage Container and/or Dumpster Size (							
(Compactors, Rol Off, Dumpsters, Carts	(Cubic Yards)		Number of Containers	Pi	Number of ckups Per Week	Material (Trash or Recycle)	Combined Annual		Cubic Yards Per Ton		Number of Annual Collections		Ni Co	
Dumpsters	40 YD		2		1	Trash	Waste Stream				(Minimum 52)		i Arre	
Dumpsters	40 YD		8		2	Recycle	3.25	X	4.44		52	÷		
							10000		of Minimum Storage C	÷			ize	
	S	pots	ylvania County				Determine	T	William Storage C	Jitta			2000	
gener	Non Resider The purpose of this rated from a proposed project	tial eport	Waste Generati is to calculate the and to ensure adequate	nual	waste stream ection service is pro	ovided.	Combined Annual Waste Stream		Cubic Yards Per Ton		Number of Annual Collections (Minimum 52)		Ni Co (A	
			on of Annual Waste				3.25	Х	4.44	÷	52	÷		
of square feet bei "Annual Waste G	e for the proposed project b ng occupied by each use. N eneration Rate" column, ar nual Tonnage" column and	d the	ly each square footag n list the value in "A	ge fig	gure by the correspond I Tonnage" column	onding value in the n. Add all values in	Sufficient area sl	all be	e project must provide ac e provided at the collecti- 1/2 of the total capacity	on ce	enter to accommoda	te a r	ninii	
	200		Annual Waste			Date of the second	Step 3: Identification of Collection Method							
Building Use	Floor Area (square feet)		Generation Rate (tons/sq ft)			Generation Rate 'ons)	Container Typ (Compactors, R		Size		Number of		N	
	2500	X	0.0013	=	3	3.25	Off,		(Cubic Yards)		Containers	Pi		
Office		X	0.0016	=		0	Dumpsters, Ca	rts)						
Industrial		X	0.0057	=		0	Dumpster		10		1			
Industrial Food/Retail			0.00105	=		0								
Industrial Food/Retail Public Facility		X												
Industrial Food/Retail Public Facility Institution/School		X	0.00105	=		0								
Industrial Food/Retail Public Facility	Combined Annual Waste	X	0.00105 0.00155	=		0								

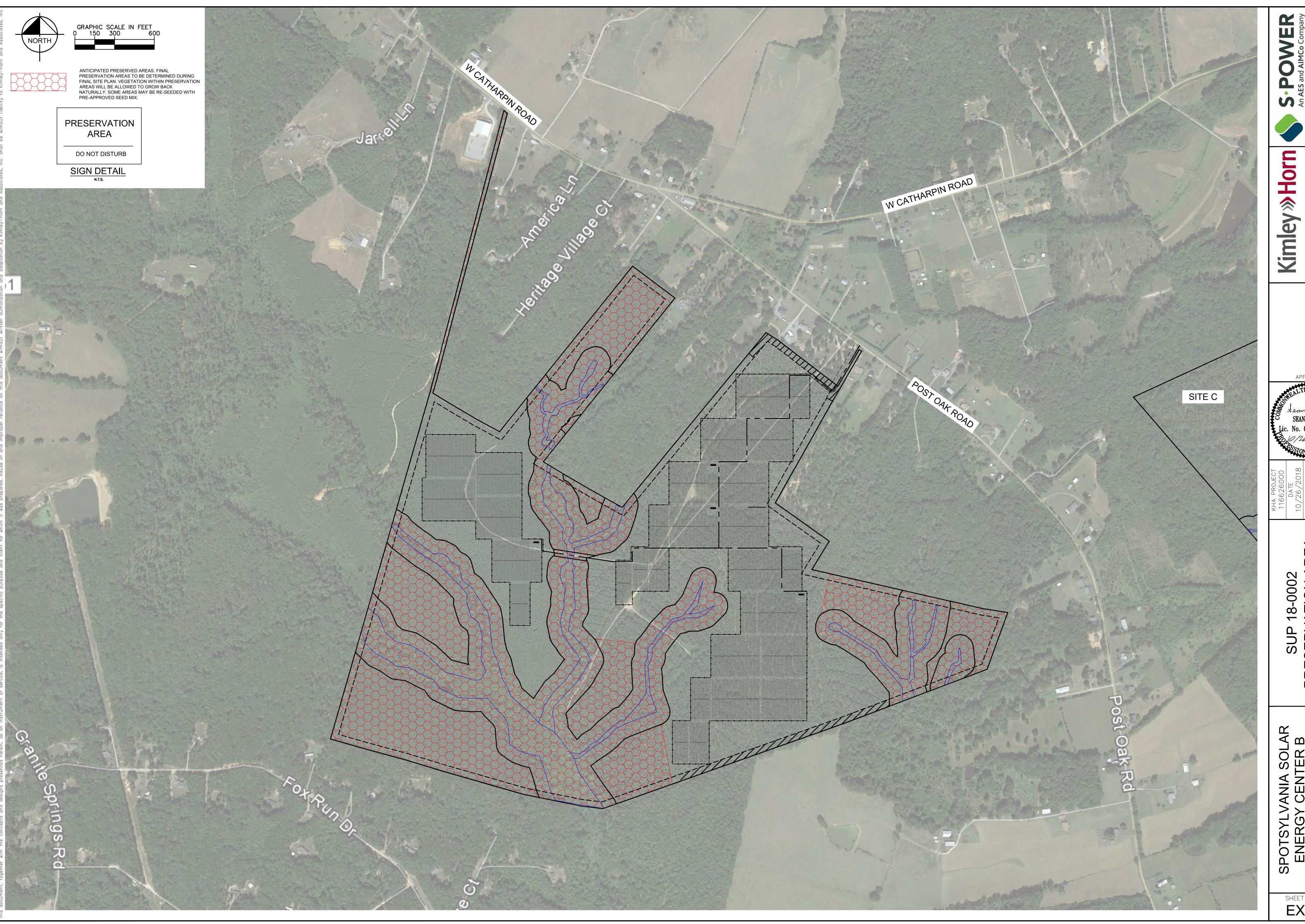
3: Identification of Collection Method	Step 2: Determination of Minimum Storage								
FOR SITES A, B, AND C									
SOLID WAS IL DISI OSAL CALCO	LA HONO I ON CONSTINUCTION								

	F	OR SITES	A, B, AND	) (	;							
llection	Method		Step 2: Determination of Minimum Storage Capacity									
III III			Determination of Minimum Storage Container and/or Dumpster Size (With Onsite Recycle Program)									
f s	Number of Pickups Per Week	Material (Trash or Recycle)	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	
	1	Trash	waste Stream								(Cubic Yards)	
	2	Recycle	3.25	Х	4.44	÷	52	÷	2	=	0.14	
			Determinat	Determination of Minimum Storage Container and/or Dumpster Size (Without Recycle Program)								
ite the an	on Report mual waste stream collection service is p	rovided.	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)	
al Waste	Generation		3.25	Х	4.44	÷	52	÷	1	=	0.28	
re footag ue in "A	umn labeled "Floor Ar ge figure by the corres nnual Tonnage" colum ombined Annual Wast	ponding value in the nn. Add all values in	Sufficient area sha	all be with	e project must provide ac provided at the collection 1/2 of the total capacity	on ce	enter to accommoda	te a i	minimum of two			
Vaste			Step 3: Identification of Collection Method									
n Rate q ft)	(	te Generation Rate Tons)	Container Type (Compactors, Ro		Size		Number of		Number of		Material	
16	=	3.25 0	Off, Dumpsters, Carr	ts)	(Cubic Yards)		Containers	P	ickups Per Wee	:k	(Trash or Recycle)	
57	=	0	Dumpster		10		1		0.5		Trash	
05	=	0										
05	=	0										
55	=	0										

SHEET NUMBER

C-01

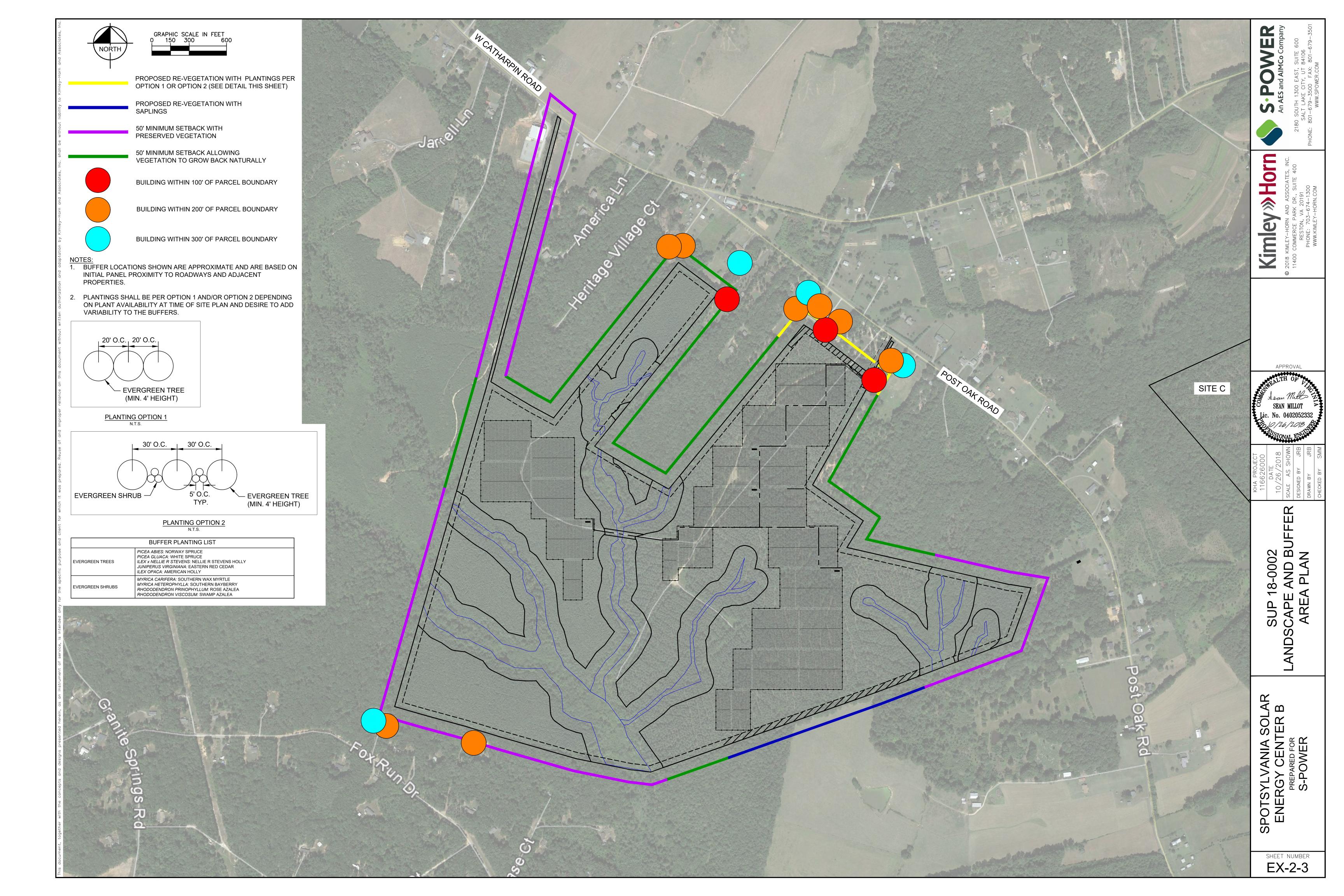


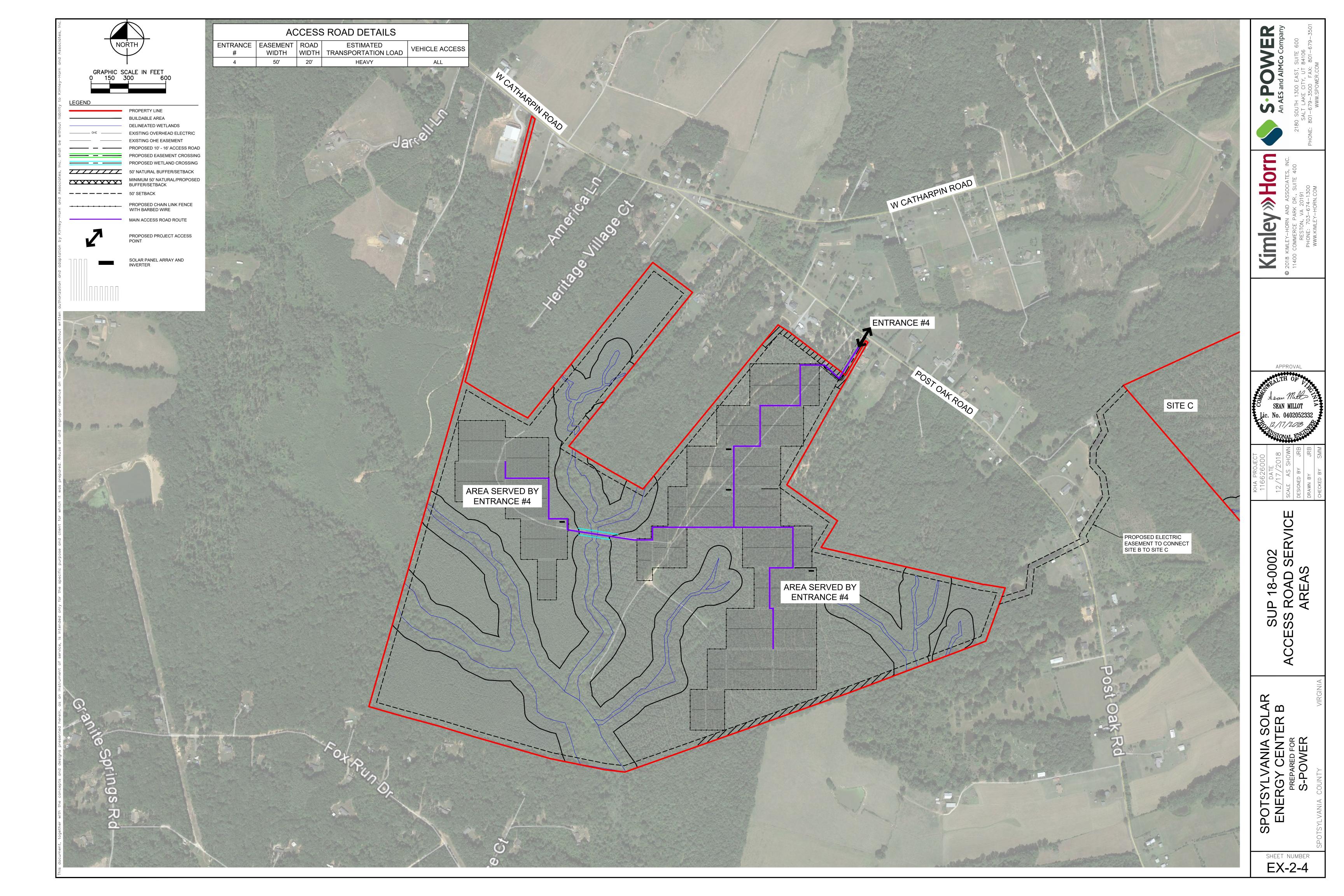


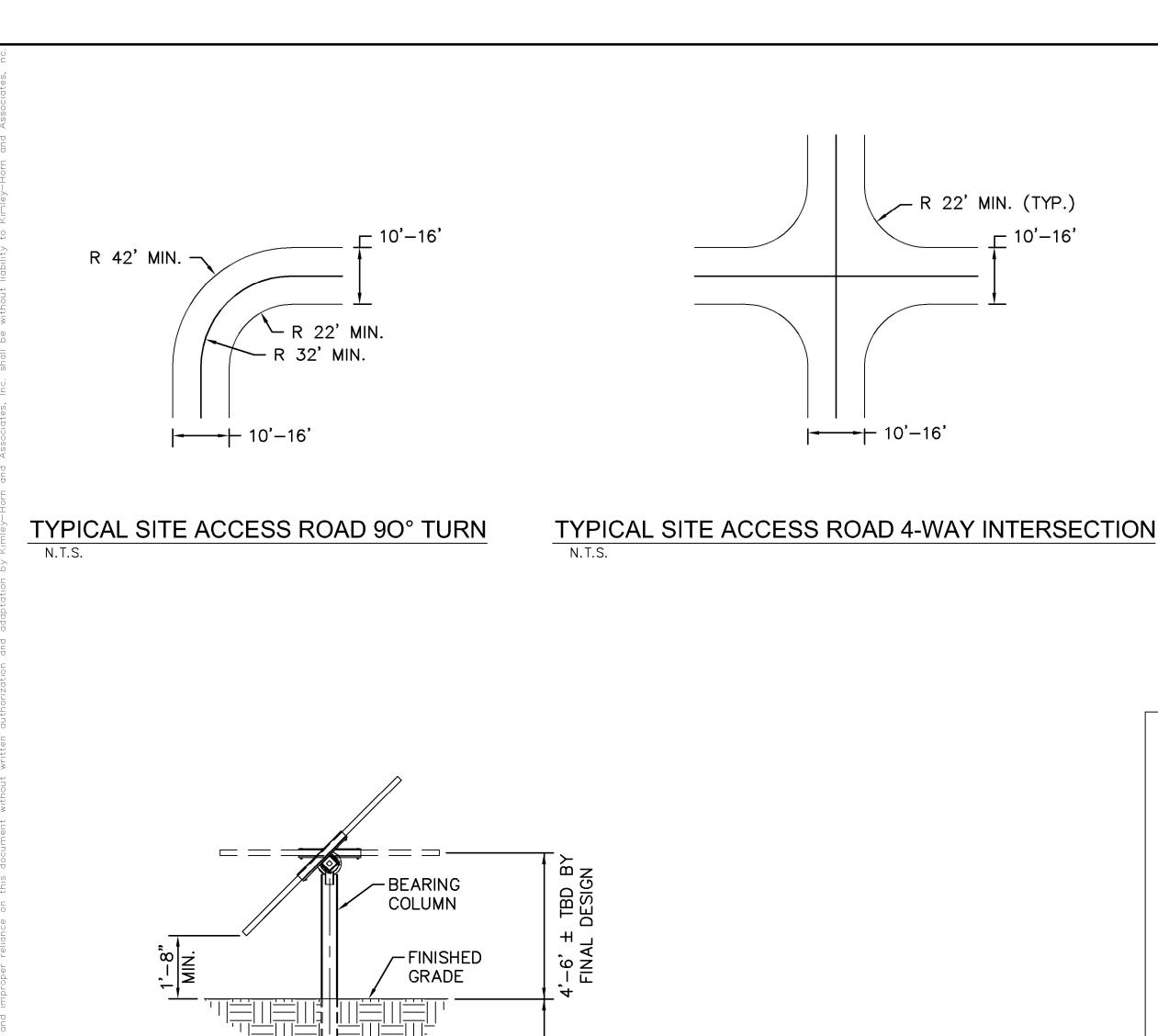
SUP 18-0002 PRESERVATION AREA PLAN

SHEET NUMBER

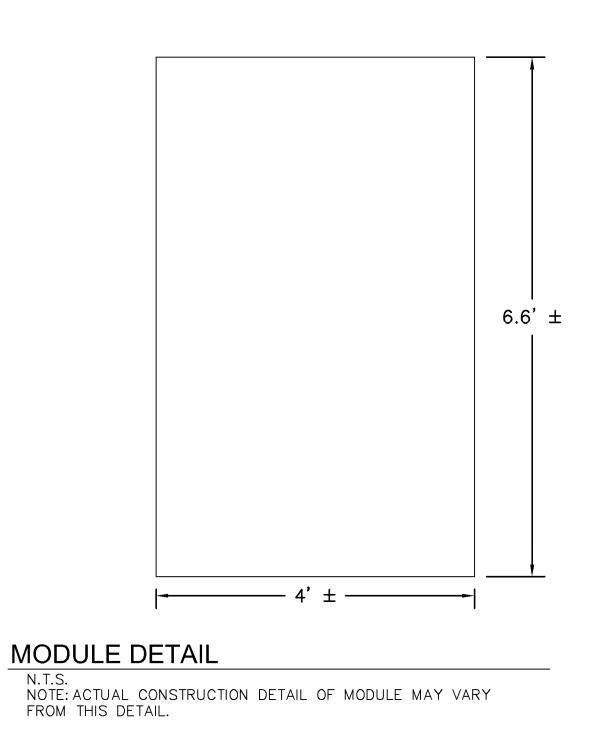
EX-2-2







8, ± FINAL



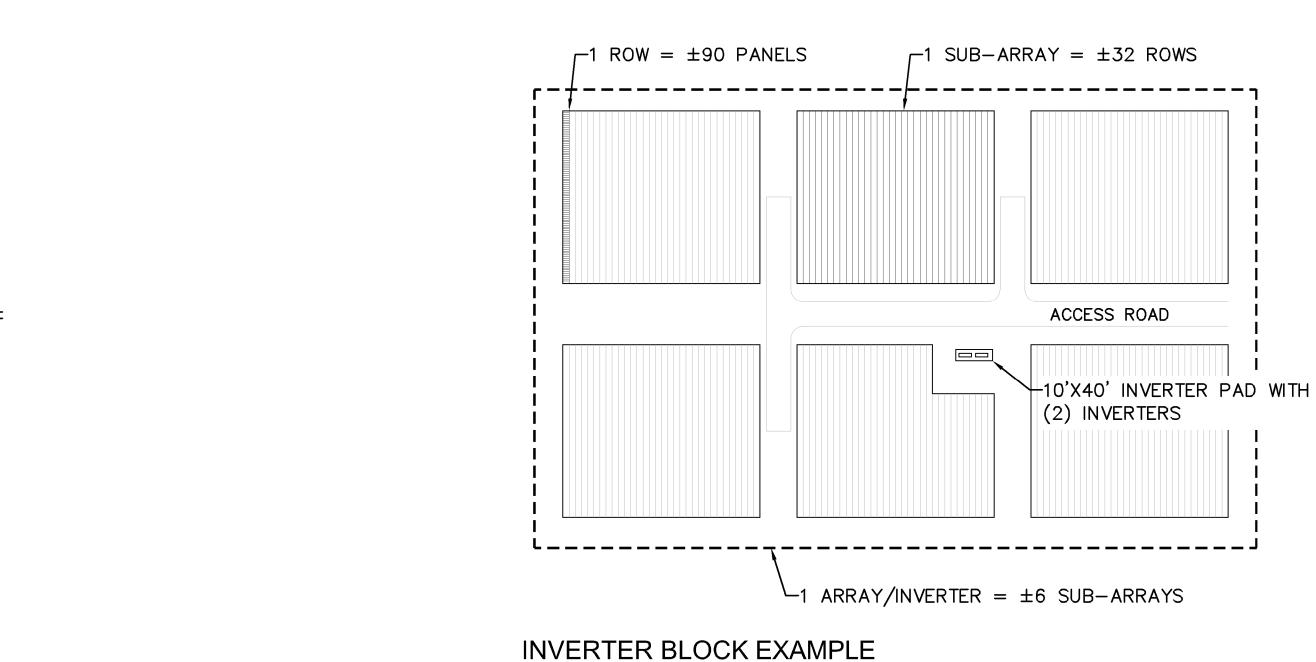
R 22' MIN. (TYP.) -

10'-16'

10'-16'

TYPICAL SITE ACCESS ROAD "T" - INTERSECTION

NOTES:



10'-20' WIDE

NATIVE SOILS

2. SCARIFY, MOISTURE CONDITION, AND RE-COMPACT EXISTING NATIVE SOILS TO 90% OF THE

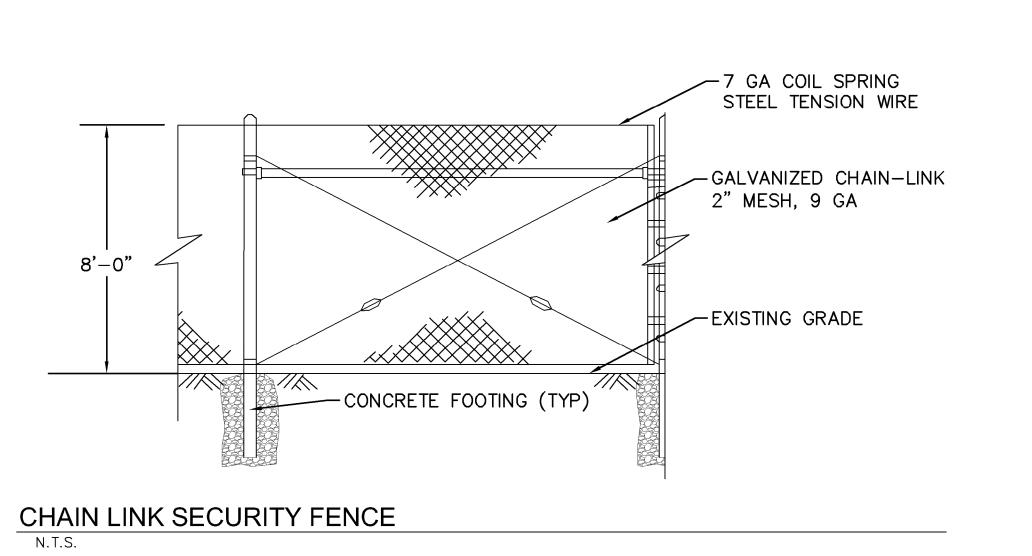
3. COMPACTION SHALL BE VERIFIED BY TESTING BY THE GEOTECHNICAL CONSULTANT.

NOTE: INVERTER PAD APPROXIMATELY 10'X40' WITH (2) 9'LX5.5'WX7.5'H INVERTERS SUBJECT TO FINAL ENGINEERING.

REMOVE ALL GRASSES AND ORGANICS WITHIN ACCESS ROAD AREA.

MATERIAL'S ASTM D-1557 MAXIMUM DRY DENSITY.

TYPICAL SITE ACCESS ROAD - GRAVEL ROAD SECTION



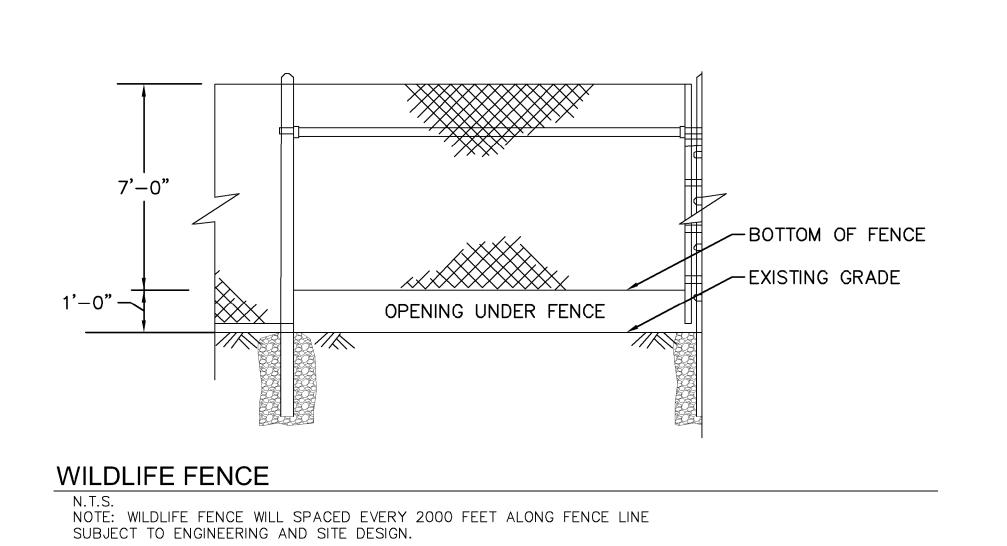
-INSTALLED BY MEANS

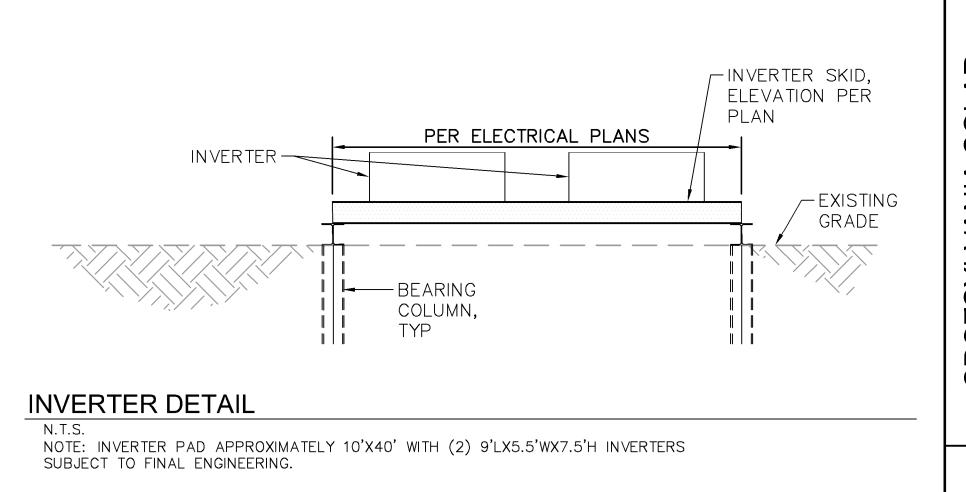
OF PILE

DRIVING

TRACKER RACK AND FOUNDATION DETAIL

N.T.S.
NOTE: ACTUAL CONSTRUCTION DETAIL OF TRACKER RACK AND FOUNDATION MAY VARY FROM THIS DETAIL.





SPOTSYLVANIA SOLAR

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SPOTSYLVANIA COUNTY

SPOTSYLVANIA COUNTY

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**TAILS** 

8-0002

POWER

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**Kimley** » Horn

APPROVAL

-EXISTING GRADE

-PROPOSED GRAVEL

GEOTEXTILE FABRIC

ROAD

-NON-WOVEN