



Staff Report 11-07-2016

Owner: Leonard Bullock and James Bullock

Applicant: Bullock Solar, LLC

Parcel ID: 0581 02028

Location: 5495 Jacksontown Road; southwest corner of intersection at Jacksontown Road and Wilson Brothers Road

Current Zoning: (A-R) Agricultural Residential

Quasi-Judicial Hearing: 07/10/2016

Prepared by: Amy Sandidge

Description of Conditional Use Permit Request:

The applicant is requesting a conditional use permit to allow construction of a 50 MW solar farm under the use category of "Solar Energy System, Large Scale".

Exhibits as follows:

- Exhibit 1.** Application & signature pages
- Exhibit 2.** Statement of justification
- Exhibit 3.** NCDOT driveway permit
- Exhibit 4.** NC DENR Permit Sediment and Erosion Plan
- Exhibit 5.** Decommission Plan
- Exhibit 6.** Interconnection Agreement Signature Pages
- Exhibit 7.** Aerial photography/surrounding Zoning map
- Exhibit 8.** Landscape Plan
- Exhibit 9.** Site plan
- Exhibit 10.** Solar Farm regulations (as per zoning ordinance)
- Exhibit 11.** Conditional Use Permit Check List

DRAFT Findings of Fact

1. The request is for a conditional use permit to allow a 50 MW solar farm on a parcel zoned (A-R) Agricultural Residential.
2. The property is owned by Leonard Bullock and James Bullock
3. The property is located at 5495 Jacksontown Road.
4. The property consists of 543 acres of which approximately 312 acres will be the array footprint.
5. The majority of the property is cleared open land.
6. The application requesting a conditional use permit was filed on October 10, 2016.
7. The adjoining property owners were notified on October 25, 2016.
8. The property was posted on October 27, 2016.

Staff Comments

The applicant is requesting a conditional use permit to construct a 50 MW solar farm. As proposed, the solar farm project area is 543.26 acres with the solar footprint covering approximately 312 acres.

As submitted the site plan shows a thirty foot vegetative landscape buffer along the entire perimeter of the site. This buffer includes an eight foot fence along the entire perimeter. The applicant has committed to planting evergreen trees, a minimum of six feet tall within this buffer. No plant species have been identified at the time this staff report was prepared but the applicant is aware they need to evergreen and from the USDA Plant Hardiness Zone 7B. In addition to the evergreen landscaping the site will also place opaque fencing strips in the perimeter fencing to further block the view of the solar farm. Existing vegetation is considered sparse around the perimeter but the applicant will strive to save any existing trees to help create a denser buffer where possible. Staff has requested these areas be shown on the site plan but applicant has been able to provide a detailed plan of existing conditions that may be preserved for the future.

The majority of the area surrounding this property is zoned A-R (Agricultural Residential). However, there are a few R30 zoned and properties to the west the project site. Several of these parcels are landlocked behind the project parcel. The applicant is providing an easement that begins just behind the existing church and dissects the middle of the solar farm to provide access to an existing cemetery and an existing vacant home.

This easement creates two separate fenced areas within the single solar farm. The easement is proposed at 25' wide. The solar farm ordinance calls for a 100' setback from right-of-ways; the applicant is requesting to reduce this to 15' on each side. The easement will be lightly traveled and not the primary access points for site maintenance. The proposed easement is an established dirt path that appears to have been in existence for many years but has grown up and almost impassable at the present time. Bullock Solar, LLC will repair and maintain the easement over the lifetime of the solar farm.

The site plan shows the interior road system within the solar farm. After a cursory review by the Fire Chief, it was determined that several more fire/emergency access points will be needed throughout the entire farm. These will be reviewed and added at the construction plan review stage.

A NCDOT driveway permit, E-911 address, and NC DENR Erosion and Sedimentation Control permit have all been obtained and submitted to staff. The applicant has received approval for the interconnection from Duke Energy and an abbreviated copy with signatures has been provided as part of the application. The point of interconnection to electric grid is shown on the site plan.

The site contains two large ponds and several streams running across the property, requiring a 100 ft. buffer (50 ft. each side), which the applicant has shown on the site plan. Aerial views show some dense wooded areas around each of the pond but it is unclear to staff how much of this area will be cleared.

The construction entrance and permanent site access will be located off Jacksontown Road, approximately 1200 feet south of Oak Level Church. There will be an additional entrance just north of Oak Level Church. The applicant's site plan does indicate a general location for construction parking or staging areas. The applicant has stated that due to the overall size of the farm the project will be developed in several stages. The applicant proposes that the construction will start at the northern border with Wilson Brothers Road and work its way south with the staging areas moving with the construction. Staff believes a general condition statement will be sufficient to keep materials and vehicles out of the right-of-way on project of this size.

The solar panels will have no moving parts and will have a relatively low profile with a height of 9-10 feet (ordinance requires less than 25 feet). The applicant states that solar components will have a UL listing and will be designed with anti-reflective coatings.

No permanent lighting is proposed for this site.

Staff Review Items

- Applicant to provide a recorded copy of the easement agreement and maintenance plan for the record.
- No construction staging or materials storage area is shown on the site plan. Board should consider adding condition that all materials, vehicles and activity will be outside of the Right-of-way.
- No tree or shrub species are mentioned – they must be evergreen as shown within USDA Plant Hardiness Zone 7B.
- Fire Access lanes will be required as a part of the building review with fire access turnarounds for emergency vehicles. Internal emergency/fire access roads must meet fire code prior to construction.



Vance COUNTY

NORTH CAROLINA

Conditional Use Permit Application

Vance County Planning & Development Department

156 Church Street, Suite 3
Henderson, NC 27536
Ph: (252) 738-2080
Fax: (252) 738-2089

For Administrative Use Only:

Case #	
Fee Paid	
BOA Date	

Property Owner Information

Property Owner: Leonard Bullock and James Bullock
 Mailing Address: 802 Bass Landing Pl.
 City: Greensboro State: NC Zip Code: 27455
 Phone #: (336) 540 - 1661 Fax #: () -
 E-mail Address: bullock1@triad.rr.com

Applicant Information

Applicant: Bullock Solar, LLC
 Mailing Address: 601-A W. Main St.
 City: Carrboro State: NC Zip Code: 27510
 Phone #: (919) 230 - 2937 Fax #: () -
 E-mail Address: martin@ccrenew.com

Property Information *For multiple properties please attach an additional sheet.*

Property Address: Jacksontown Rd., Manson, NC 27553
 Tax Map Number: 0581 02028 PIN (parcel identification #): 0581 02 028
 Type of Petition: Conditional Use Permit
 Existing Zoning: AR Proposed Zoning: AR
 Acreage: 543.26 acres Road Frontage: 8,889.52 feet
 Existing Use: Agriculture, Wooded

Deed Reference

- Metes and bounds description attached
- Site plan/sketch of proposal attached



Vance COUNTY

NORTH CAROLINA

Conditional Use Permit Application

Vance County Planning & Development Department

C. The use or development complies with all required regulations of the Zoning Ordinance and all applicable specific conditions and specifications;

Yes No

Please see attached. _____

D. The use or development is located, designed and proposed to be operated so as to maintain or enhance the value of adjoining or abutting property, or that use or development is a public necessity;

Yes No

Please see attached. _____

E. The use or development will be in harmony with the area in which it is located and will be in general conformity with the plan of development of the County.

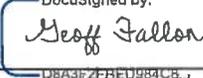
Yes No

Please see attached. _____

Property Owners Signature

_____ Date _____
Please sign in blue or black ink

Applicants' Signature

DocuSigned by:

_____ Date 10/10/2016
08A3F2E8E0984C6
Please sign in blue or black ink



Vance COUNTY

NORTH CAROLINA

Conditional Use Permit Application

Vance County Planning & Development Department

C. The use or development complies with all required regulations of the Zoning Ordinance and all applicable specific conditions and specifications;

Yes No

Please see attached. _____

D. The use or development is located, designed and proposed to be operated so as to maintain or enhance the value of adjoining or abutting property, or that use or development is a public necessity;

Yes No

Please see attached. _____

E. The use or development will be in harmony with the area in which it is located and will be in general conformity with the plan of development of the County.

Yes No

Please see attached. _____

Property Owners Signature

Leonard Bullock
Please sign in blue or black ink

Date 28 July 2016

Applicants' Signature

Please sign in blue or black ink

Date _____

**Statement of Justification in Support of Conditional Use Permit
Bullock Solar, LLC
5495 Jacksontown Road, Manson, NC 27553**

Project Narrative

This document is in support of a conditional use permit for a proposed solar energy system, large scale (solar farm), Bullock Solar, LLC to be located at 5495 Jacksontown Road, Manson, NC 27553. The site will have access from Jacksontown Road. The solar farm will contain rows of Photovoltaic (PV) cell panels mounted on posts set in the ground. These rows of panels are referred to as “solar arrays.” The solar arrays will be fixed in place facing south in order to receive the maximum amount of solar energy. This configuration contains no moving parts. Solar components will comply with the current edition of the National Electric Code, be UL listed (or equivalent), and designed with an anti-reflective coating.

The power generated from the solar farm will be sold to Duke Energy Progress for use by consumers to replace energy produced from a non-renewable source.

Statements of Justification

The use requested is among those listed as an eligible conditional use in the district in which the subject property is located.

The proposed solar farm is permitted as a conditional use in the Table of Permitted Uses of the Vance County Zoning Ordinance. The proposed solar farm will comply with all of the requirements in Section 6.10.N. Solar Energy Systems, Large Scale (Solar Farms) of the Vance County Zoning Ordinance, as can be seen in the attached site plan. The proposed solar farm will meet all required setbacks, buffering, noise and lighting requirements.

The use or development is located, designed and proposed to be operated so as to maintain or promote the public health or safety.

The proposed solar farm will not endanger the public health or safety of Vance County. The site will generate almost no traffic. Employees will visit the site once a week or even less frequently for routine maintenance of the arrays and the property.

The solar panels that comprise the solar arrays are made primarily of glass; they do not contain dangerous materials, nor do they emit dust, noxious fumes or liquids.



Adequate utilities, access to roads, drainage, sanitation and other necessary facilities are being provided.

The active area of the solar array public utility will be enclosed by an eight foot (8') high fence and gated for security purposes. Access codes to the gate will be provided to local police, fire and emergency service providers. Vehicular access to the site is adequate for the use proposed and for emergency services. The facility shall meet all requirements of the North Carolina State Building Code.

The use or development complies with all required regulations of the Zoning Ordinance and all applicable specific conditions and specifications.

As outlined in Section 6 N. of the Vance County Zoning Ordinance, the conditional use permit for Bullock Solar, LLC meets the requirements of the ordinance including, but not limited to, the following:

1. The system, equipment, and structures shall not exceed 25' in height except for any utility owned or required equipment at the point of interconnection and substation.
2. All solar equipment, including fences will be at least 100' set back from any public right-of-way and 50' from any other property lines.
3. All equipment shall be enclosed by a fence that is at least eight feet in height. A thirty-foot vegetative buffer shall be placed along the perimeter of the buffer. This buffer will be well-maintained and reach a height of 8' within three years. It shall consist of evergreen foliage. Existing vegetation may be used in lieu of providing additional vegetation.
4. No lighting is proposed for the site.
5. Noise levels will be minimized to the extent practicable. Noise levels at any property line shall not exceed fifty decibels where adjacent to residences or a residential district.
6. To the extent practicable, all new utilities will be placed underground.
7. All components will have a UL listing and be designed with an anti-reflective coating. Individual panels and arrays will be placed such as to minimize the glare towards adjacent buildings or rights-of-way.
8. All facilities will be built in compliance with the North Carolina State Building and Electrical Codes, as well as the Building and Electrical Codes of Vance County. All facilities will be inspected by a Vance County building inspector.
9. Bullock Solar, LLC will permit Vance County to inspect the solar farm annually for three years following the issuance of the zoning permit, and Vance County will be permitted to inspect the site additionally as deemed necessary.

10. Verification of authorization for interconnection with Duke Energy Progress will be provided prior to the installation of the solar farm.
11. Bullock Solar, LLC or the landowner will remove all obsolete or unused systems within twelve months of the cessation of operations, per the attached decommissioning agreement. Notification will be provided to Vance County of the site decommissioning.
12. We request a variance from the Vance County Zoning Ordinance Section 6 (N)(2) providing for 100 foot setbacks from street right-of-ways for the two access easements being granted through the subject property to Oak Level Church and Evans Heirs. These access ways provide access to an existing cemetery and an old farmhouse. They are internal to the site and will not be heavily travelled. We propose instead a fifteen foot (15') setback on either sides of these twenty-five foot (25') wide access easements. Oak Level Church and Evans Heirs are in support of the proposed variance. We will meet the 100-foot setback for all public right-of-ways.

The use or development is located, designed and proposed to be operated so as to maintain or enhance the value of adjoining or abutting property, or that use or development is a public necessity.

Solar energy is essential and desirable to the public convenience and welfare. Demand for electricity has increased in recent years, and our society is currently dependent upon conventional sources of power such as coal, gas, and nuclear energy. Conventional sources of electricity are expensive, finite resources that require significant environmental disruption and public safety risk to maintain or extract. Solar energy is a clean, cheap, unlimited resource with little environmental impact.

Allowing the property to develop as a solar farm provides an opportunity for locally generated energy resources in Vance County and creates income for the property owners and tax base for the County. Solar farms allow property owners to maintain large tracts of land that are easily redeveloped at the appropriate time in the future.

The proposed solar farm will not substantially injure the value of adjoining or abutting property. Solar farms make good neighbors. They are quiet and have no moving parts. The only sound produced occurs during daylight hours with the quiet hum of electrical transformers and invertors delivering solar power to the grid. At night, when the sun is not available, there is no energy being created and no sound on the site. The solar panels are designed to absorb light, rather than reflect it, which mitigates glare concerns for adjoining properties.



Solar energy is a public necessity. Demand for electricity has drastically increased in recent years, and our society is currently dependent upon conventional sources of power such as coal, gas and nuclear energy. Conventional sources of electricity are expensive, finite resources that require significant environmental disruption and public safety risk to maintain or extract. Solar energy is a clean, cheap, unlimited resource with very minimal environmental impact. Allowing the Property to develop as a solar farm will maintain the rural character of the area while providing a sustainable benefit to the community.

The use or development will be in harmony with the area in which it is located and will be in general conformity with the plan of development of the County.

The proposed solar farm is consistent with the land use pattern that exists in the area today. Neighboring properties are being utilized as agricultural, vacant, and forested uses. Solar farms are a low-impact, passive development: they are quiet and they do not create the noise, dust, or odor as a traditional "farm" can. Solar panels are shorter in height than a typical home. The requested solar farm will be fully screened from adjoining properties with a 30' evergreen buffer. The proposed solar farm will be in conformity with Vance County's Land Use Plan through maintaining this rural character and ultimately decommissioning will allow this site to return to agricultural use following its service as a solar farm.

For these reasons, we respectfully request approval of the proposed conditional use permit.



Transportation

PAT McCRORY

Secretary

NICHOLAS J. TENNYSON

Secretary

10/6/2016

Leonard Bullock
802 Bass Landing Pt.
Greensboro, NC 27455

COUNTY: Vance

SUBJECT: Driveway Permit D53-91-16-006

ROUTE(S): SR1369 (.8 miles south from the intersection of SR1200W and SR1201W)

Attached for your file is a copy of the Driveway Permit which you requested.

This permit is approved with the understanding the owner/agent is responsible for the proper construction of the above drive and subject to the attached Special Provisions.

Please refer to Permit **D53-91-16-006** in all future correspondence with this office concerning this drive. Should you have any questions, please contact this office at (252) 598-5100.

A PERFORMANCE AND INDEMNITY BOND IN THE VALUE OF \$1,000.00 IS REQUIRED AND SHALL BE POSTED WITH THE DISTRICT OFFICE PRIOR TO THE START OF WORK.

Sincerely,

Stephen D. Winstead, P.E.
District Engineer

cc: J. R. Hopkins, P. E., Division Engineer
County Maintenance Engineer

State of North Carolina | Department of Transportation | Division Five – District 3
321 Gillburg Road | CS # 07-15-01 | Henderson, North Carolina 27537
252-598-5100 Telephone | 252-492-0123 Fax

D53-91-16-006

9 HOLIDAY AND HOLIDAY WEEKEND LANE CLOSURE RESTRICTIONS

1. For unexpected occurrence that creates unusually high traffic volumes, as directed by the Engineer.
2. For New Year's Day, between the hours of 6:00 a.m. December 31st and 7:00 p.m. January 2nd. If New Year's Day is on a Friday, Saturday, Sunday or Monday, then until 7:00 p.m. the following Tuesday.
3. For Easter, between the hours of 6:00 a.m. Thursday and 7:00 p.m. Monday.
4. For Memorial Day, between the hours of 6:00 a.m. Friday and 7:00p.m. Tuesday.
5. For Independence Day, between the hours of 6:00 a.m. the day before Independence Day and 7:00 p.m. the day after Independence Day. If Independence Day is on a Friday, Saturday, Sunday or Monday, then between the hours of 6:00 a.m. the Thursday before Independence Day and 7:00 p.m. the Tuesday after Independence Day.
6. For Labor Day, between the hours of 6:00 a.m. Friday and 7:00 p.m. Tuesday.
7. For Thanksgiving Day, between the hours of 6:00 a.m. Tuesday and 7:00 p.m. Monday.
8. For Christmas, between the hours of 6:00 a.m. the Friday before the week of Christmas Day and 7:00 p.m. the following Tuesday after the week of Christmas Day.

Holidays and holiday weekends shall include New Year's, Easter, Memorial Day, Independence Day, Labor Day, Thanksgiving, and Christmas. The Contractor shall schedule his work so that lane closures are not required during these periods, unless otherwise directed by the Engineer.

- 10 Mr. Frank Carpenter, Vance County Maintenance Engineer, at (252) 257-3938, shall be notified 48 hours prior to beginning work and/or to schedule pipe installation inspection.
- 11 Driveway Turnout Grades (Fig. 6), as found attached with this driveway permit SHALL be followed for entrance to be approved to eliminate drainage onto the NCDOT highway system.

- 10 All earth areas disturbed shall be regraded and reseeded in accordance with Division of Highways Standards and Specifications as follows (per acre); Year Round Mixture: 50# Pensacola Bahia Grass, 50# KY 31 Tall Fescue, 5# Centipede, 500# 10-20-20 Fertilizer, 4,000# Limestone; 2:1 Slopes Standard Mix: use year round mixture (delete centipede) add 25# Sericea Lespedeza; Crown Vetch on 2:1 Slope (Sept.- May) use year round mixture, add Crown Vetch @ 15 lb. Per acre (delete Centipede and Bahia).
- 11 Excavated areas adjacent to pavement having more than a 2" drop shall be safed up at a 6:1 or flatter slope and designated by appropriate delineation during periods of inactivity, including, but not limited to, night and weekend hours.
- 12 Excavated material shall not be placed on the roadway at anytime.
- 13 Please note that approval of the driveway permit does not constitute review or approval of utilities or sidewalk by NCDOT. Plans and a completed encroachment agreement shall be submitted to the District Engineer's office for review and approval.
- 14 It is the responsibility of the owner/agent to secure any construction easements (temporary or permanent) from property owners affected by the construction limits.
- 15 All right of way and easements necessary for construction and maintenance shall be dedicated to NCDOT with proof of dedication furnished to the District Engineer prior to beginning work.
- 16 The Applicant is responsible for identifying project impacts to waters of the United States (wetland, intermittent streams, perennial streams and ponds) located within the NCDOT right-of-way. The discharge of dredged or fill material into waters of the United States requires authorization from the United States Army Corps of Engineers (USACE) and certification from the North Carolina Division of Water Quality (NCDWQ). The Applicant is required to obtain pertinent permits or certification from these regulatory agencies if construction of the project impacts waters of the United States within the NCDOT right-of-way. Additional information can be obtained by contacting the USACE or NCDWQ.
- 17 The Applicant is responsible for avoiding impacts to federally protected species during project construction. Bald Eagle, Michaux's Sumac, smooth coneflower, dwarf wedgemussel, harperella, red-cockaded woodpecker and tar spinymussel are federally funded species that have been identified within NCDOT right-of-way in Durham, Person, Granville, Wake, Franklin, Vance and Warren Counties. Additional information can be obtained by contacting the North Carolina Natural Heritage Program or the United States Fish and Wildlife Service.

22 Spencer Ellis, 321 Gillburg Road, Henderson, NC 27537, (252) 598-5100 shall be notified in writing or by phone 48 hours prior to beginning work. Verification of the posted bond will be required with this letter in order to begin construction.

SIGNATURES OF APPLICANT

PROPERTY OWNER (APPLICANT)

COMPANY _____
SIGNATURE James W. Bullock
ADDRESS 7405 PORTPATRICK CT.
WAKE FOREST, NC Phone No. 919-556-5080

WITNESS
NAME Cathy Schwarz
SIGNATURE Catherine Schwarz
ADDRESS 7401 Portpatrick Ct.
Wake Forest, NC 27587

AUTHORIZED AGENT

COMPANY Cypress Creek EPC, LLC
SIGNATURE Kirk Kieffer (Kirk Kieffer)
ADDRESS 601-A West Main Street
Carrboro, NC 27510 Phone No. 919-240-4815

WITNESS
NAME Keith Billy
SIGNATURE Keith Billy
ADDRESS 601 A W. Main St
Carrboro, NC 27510

APPROVALS

APPLICATION RECEIVED BY DISTRICT ENGINEER

Steve D. Winters SIGNATURE 10/6/16 DATE

APPLICATION APPROVED BY LOCAL GOVERNMENTAL AUTHORITY (when required)

Angie Zindley SIGNATURE Planner TITLE 10/5/16 DATE

APPLICATION APPROVED BY NCDOT

Steve D. Winters SIGNATURE District Engineer TITLE 10-6-2016 DATE

INSPECTION BY NCDOT

SIGNATURE TITLE DATE

COMMENTS:



Energy, Mineral
and Land Resources
ENVIRONMENTAL QUALITY

PAT MCCRORY

Governor

DONALD R. VAN DER VAART

Secretary

TRACY DAVIS

Director

October 12, 2016

LETTER OF APPROVAL

Cypress Creek EPC, LLC
Kirk Kieffer
601-A West Main St
Carrboro, NC 27510

RE: Project Name: Bullock Solar, LLC
Acres Approved: 340
Project ID: VANCE-2017-003
County: Vance City: Henderson
Address: Jacksontown Road
River Basin: Roanoke
Stream Classification: Other
Submitted By: Michael Crowley
Date Received by LQS: September 26, 2016
Plan Type: Other
Plan Description: Plan submitted to cover sediment and erosion control for the installation of a 75MW solar farm facility.

Dear Sir or Madam:

The subject erosion and sedimentation control plan was approved by default. The Sedimentation Pollution Control Act (hereinafter "Act") states that this plan must be filed a minimum of 30 days (15 days for revised plans) prior to the activity and the approving authority must approve or disapprove the submitted plan within 30 days (15 days for revised plans) of receipt of G.S. 113A-54.1. The Act further states that if the approving authority fails to approve or disapprove the submitted plan within the 30-day (15 days for revised plans) period, the plan will be deemed approved. The enclosed Certificate of Approval must be posted at the job site. This plan approval shall expire three (3) years following the date of approval, if no land-disturbing activity has been undertaken, as is required by Title 15A NCAC 4B .0129.

Title 15A NCAC 4B .0118(a) requires that a copy of the approved erosion control plan be on file at the job site. Also, this letter gives the notice required by G.S. 113A-61.1(a) of our right of periodic inspection to insure compliance with the approved plan.

North Carolina's Sedimentation Pollution Control Act is performance-oriented, requiring protection of existing natural resources and adjoining properties. If, following the commencement of this project, the

Division of Energy, Mineral, and Land Resources
3800 Barrett Drive • Phone: 919-791-7200 • FAX: 919-571-4718
Internet: <http://portal.ncdenr.org/web/nc/>

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Bullock Solar, LLC
Vance County

10/05/2016

Decommission Plan

As a supplement to the Conditional Use Permit application to establish a photovoltaic solar array power generation facility located at 5495 Jacksontown Road, Manson, NC 27553, PIN #058102028; Bullock Solar, LLC presents this decommissioning plan.

Decommissioning will occur as a result of any of the following conditions:

- 1. The system does not produce power for a period of 12 months; or
- 2. The system is rendered inoperable and will not be repaired or replaced

The operator of the facility will do the following as a minimum to decommission the project:

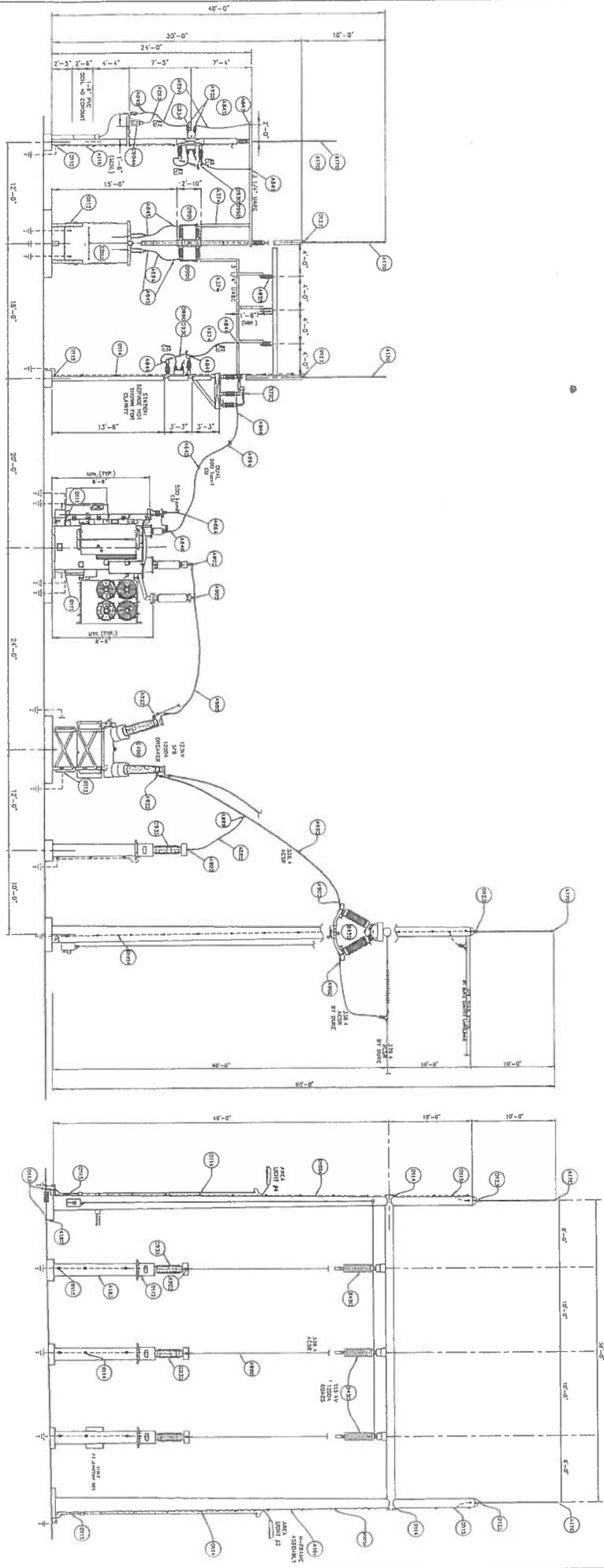
- 1. Remove all non-utility owned equipment, conduits, structures, and foundations to a depth of at least three feet below grade; and
- 2. Restore the land, to the extent possible, to the condition in which it existed before construction of the Solar Energy System ("SES"), by replacing a layer of top soil where the existing top soil has been removed or eroded as a result of construction and operation of the SES; and
- 3. Establish vegetative ground cover on the site that is native to the region, unless future redevelopment is better suited to occur on land without vegetative cover.

Bullock Solar, LLC shall notify the county when the site is abandoned. All said removal and decommissioning shall occur within 12 months of any aforementioned decommissioning condition.

The operator of the farm, currently Bullock Solar, LLC, is responsible for decommissioning the SES.

SES Operator Signature: DocuSigned by:
Geoff Fallon
08A3F2EBED984C8... Date: 10/5/2016





SECTION A-A
SCALE 3/16"=1'-0"

SECTION B-B
SCALE 3/16"=1'-0"

INSTALLATION NOTES:
 1. Interpretation/variation to verify that conductor terminal, race, wire and fit are to match terminal, race size, type, rating and protection.

REFERENCES:

SPEC. PLAN	4000	21 OF 5
PLAN VIEW	4000	22 OF 51
SECTION A-A	4000	23 OF 51
SECTION B-B	4000	24 OF 51
REVISION FOR PLAN	4000	25 OF 51
REVISION FOR PLAN	4000	26 OF 51
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REVISION FOR PLAN	4000	28 OF 51
REVISION FOR PLAN	4000	29 OF 51
REVISION FOR PLAN	4000	30 OF 51

ELECTRICAL SYMBOLS AND NOTATION THE SYMBOLS AND NOTATION SHOWN HEREIN ARE TO BE USED IN CONNECTION WITH THE ELECTRICAL WORK SHOWN ON THIS DRAWING. FOR A COMPLETE LIST OF SYMBOLS AND NOTATION, REFER TO THE ELECTRICAL CODE AND THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA) AND THE INTERNATIONAL BROTHERHOOD OF ELECTRICAL INQUIRY (IBEW) STANDARDS.			
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6	1.6	1.6	1.6
7	1.7	1.7	1.7
8	1.8	1.8	1.8
9	1.9	1.9	1.9
10	1.10	1.10	1.10
11	1.11	1.11	1.11
12	1.12	1.12	1.12
13	1.13	1.13	1.13
14	1.14	1.14	1.14
15	1.15	1.15	1.15
16	1.16	1.16	1.16
17	1.17	1.17	1.17
18	1.18	1.18	1.18
19	1.19	1.19	1.19
20	1.20	1.20	1.20
21	1.21	1.21	1.21
22	1.22	1.22	1.22
23	1.23	1.23	1.23
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25	1.25	1.25	1.25
26	1.26	1.26	1.26
27	1.27	1.27	1.27
28	1.28	1.28	1.28
29	1.29	1.29	1.29
30	1.30	1.30	1.30
31	1.31	1.31	1.31
32	1.32	1.32	1.32
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34	1.34	1.34	1.34
35	1.35	1.35	1.35
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37	1.37	1.37	1.37
38	1.38	1.38	1.38
39	1.39	1.39	1.39
40	1.40	1.40	1.40
41	1.41	1.41	1.41
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43	1.43	1.43	1.43
44	1.44	1.44	1.44
45	1.45	1.45	1.45
46	1.46	1.46	1.46
47	1.47	1.47	1.47
48	1.48	1.48	1.48
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58	1.58	1.58	1.58
59	1.59	1.59	1.59
60	1.60	1.60	1.60
61	1.61	1.61	1.61
62	1.62	1.62	1.62
63	1.63	1.63	1.63
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65	1.65	1.65	1.65
66	1.66	1.66	1.66
67	1.67	1.67	1.67
68	1.68	1.68	1.68
69	1.69	1.69	1.69
70	1.70	1.70	1.70
71	1.71	1.71	1.71
72	1.72	1.72	1.72
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74	1.74	1.74	1.74
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82	1.82	1.82	1.82
83	1.83	1.83	1.83
84	1.84	1.84	1.84
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86	1.86	1.86	1.86
87	1.87	1.87	1.87
88	1.88	1.88	1.88
89	1.89	1.89	1.89
90	1.90	1.90	1.90
91	1.91	1.91	1.91
92	1.92	1.92	1.92
93	1.93	1.93	1.93
94	1.94	1.94	1.94
95	1.95	1.95	1.95
96	1.96	1.96	1.96
97	1.97	1.97	1.97
98	1.98	1.98	1.98
99	1.99	1.99	1.99
100	2.00	2.00	2.00

NORTH CAROLINA

INTERCONNECTION AGREEMENT

Between

DUKE ENERGY PROGRESS, LLC.

AND

BULLOCK SOLAR, LLC

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If to the Interconnection Customer:

Interconnection Customer: Bullock Solar, LLC

Attention: Cypress Creek Renewables - Attn. Project Manager

Address: 3250 Ocean Park Blvd, Suite 355.

City: Santa Monica State: CA Zip: 90405

Phone: 310-581-6299 Fax: _____

E-mail Address: lines@ccrenew.com or info@ccrenew.com

If to the Utility:

Utility: Duke Energy Progress

Attention: Jim Eckelkamp

Address: 3401 Hillsborough Street

City: Raleigh State: NC Zip: 27607

Phone: 919-546-7706 Fax: 919-546-4048

E-Mail Address: james.eckelkamp@duke-energy.com

13.2 Billing and Payment

Billings and payments shall be sent to the addresses set out below:

If to the Interconnection Customer:

Interconnection Customer: Bullock Solar, LLC

Attention: C/O Cypress Creek Renewables - Attn. Project Manager

Address: 3250 Ocean Park Blvd., Suite 355.

City: Santa Monica State: CA ZIP: 28732

E-mail Address lines@ccrenew.com or info@ccrenew.com

13.4 Designated Operating Representative

The Parties may also designate operating representatives to conduct the communications which may be necessary or convenient for the administration of this Agreement. This person will also serve as the point of contact with respect to operations and maintenance of the Party's facilities.

Interconnection Customer's Operating Representative:

Interconnection Customer: Bullock Solar, LLC

Attention: Cypress Creek Renewables – Attn. Project Manager

Address: 3250 Ocean Park Blvd., Suite 355

City: Santa Monica State: CA Zip: 90405

Phone: 310-581-6299 Fax:

E-Mail Address: lines@ccrenew.com or info@ccrenew.com

Utility's Operating Representative:

Utility: Duke Energy Progress

Attention: Sammy Roberts

Address: 3401 Hillsborough Street

City: Raleigh State: NC Zip: 27607

Phone: 919-546-5678 Fax: 919-546-4048

E-Mail Address: Sammy.roberts@Duke-energy.com

13.5 Changes to the Notice Information

Either Party may change this information by giving five Business Days written notice prior to the effective date of the change.

