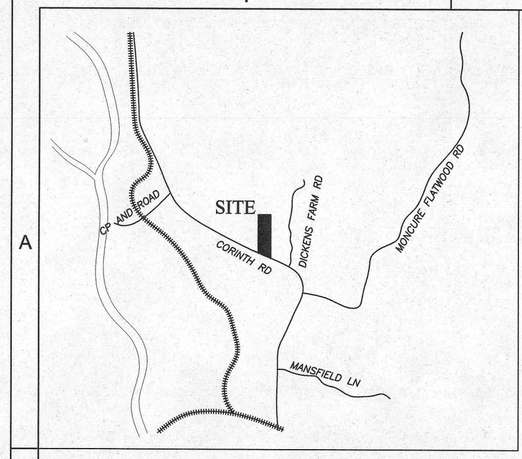
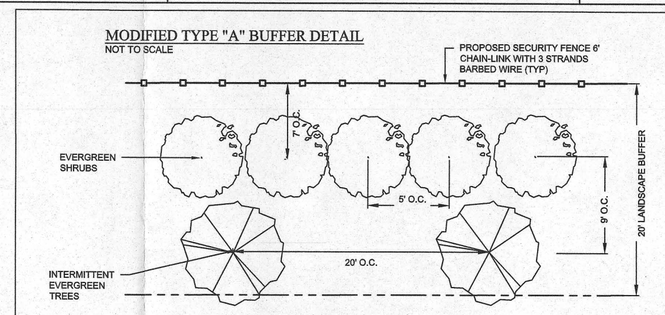



VICINITY MAP
(NOT TO SCALE)




NOTES
1. PLANTING AREA WILL BE 20' WIDE
2. EVERGREEN SHRUBS WILL BE A MINIMUM OF 36" AT TIME OF PLANTING
3. EVERGREEN SHRUBS
ILEX VOMITORIA (WAX MYRTLE)
VIBURNUM AWABUKI 'CHINCO' (CHINDO VIBURNUM)
JUNIPERUS VIRGINIANA (EASTERN RED CEDAR)
ILEX X'EMILY BRUNER' (EMILY BRUNER HOLLY)
EVERGREEN TREES
ILEX VOMITORIA (VAUPON HOLLY)
MAGNOLIA GRANDIFLORA (SOUTHERN MAGNOLIA)

NOTES

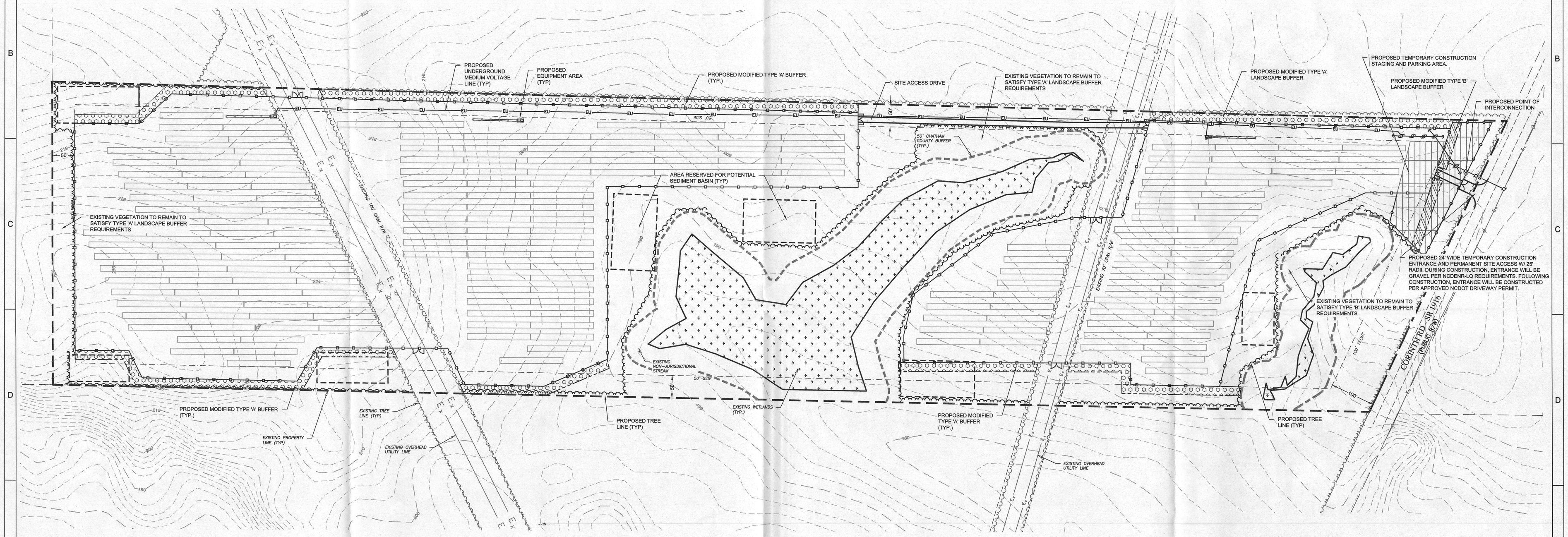
1. EXISTING PROPERTY INFORMATION

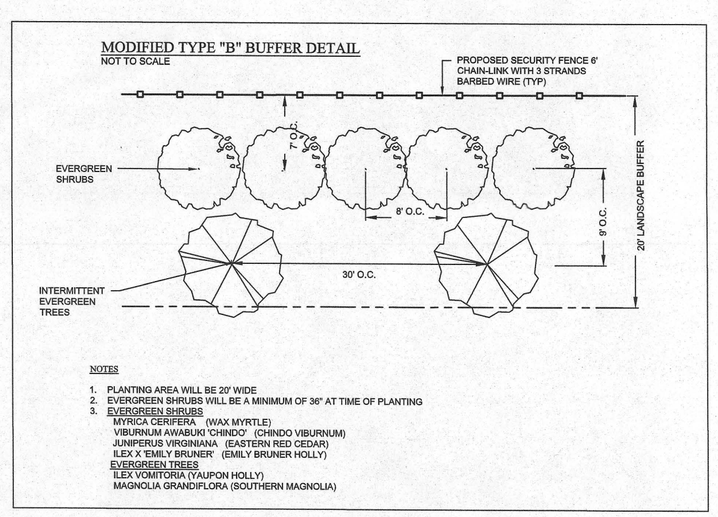
| PIN | OWNER | DB/PG | PARCEL ACREAGE | LEASED ACREAGE | LAND USE |
|---|---|---|---|---|---|
| 5751 | PHYLLIS T. BUCHANAN | 568/0797 | 46.8± | 46.8± | VACANT |

RIVER BASIN: CAPE FEAR
WATERSHED: WS-IV PA
MINIMUM SETBACK REQUIREMENTS:

| | EXISTING ZONING: R-1 | SOLAR |
|---|---|---|
| FRONT | 40' | 100' |
| SIDE | 25' | 50' |
| REAR | 25' | 50' |

2. THE PURPOSE OF THIS PLAN IS FOR A CONDITIONAL USE PERMIT APPLICATION FOR REVIEW AND APPROVAL BY THE CHATHAM COUNTY BOARD OF COMMISSIONERS TO CONSTRUCT A SOLAR ELECTRIC POWER PLANT. THE LOCATION OF PROPOSED IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO: FENCING, SOLAR ARRAY RACKING, EQUIPMENTS, OVERHEAD POLES & LINES, ETC., SHOWN IS APPROXIMATE AND MAY BE SUBJECT TO MODIFICATION DUE TO SITE CONDITIONS, ADDITIONAL PERMITTING REQUIREMENTS (NCDOT, NCDEQ, USACOE, ETC.), EQUIPMENT SPECIFICATIONS, AND/OR OTHER CONSTRAINTS. ANY REVISIONS WILL BE SUBMITTED FOR STAFF APPROVAL PRIOR TO CONSTRUCTION TO VERIFY COMPLIANCE WITH ZONING REQUIREMENTS AND CONDITIONS AS APPROVED.
3. TOPOGRAPHIC DATA & EXISTING IMPROVEMENTS SHOWN ON THIS PLAN IS PER NCDOT LIDAR TOPOGRAPHY, CHATHAM COUNTY GIS AND AERIAL IMAGERY.
4. WATERS OF THE US SHOWN PER REPORT PREPARED BY PILOT ENVIRONMENTAL, INC AND VERIFIED BY THE USACoE ON 07/25/2017. THEY HAVE NOT BEEN FIELD LOCATED.
5. THE PROPERTY SHOWN HEREON DOES NOT CONTAIN SPECIAL FLOOD HAZARD AREAS (SFHAS) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD (I.E. 100-YR. EVENT) PER FEMA FIRM MAP PANEL NO. 3710969700J AND 3710969700K EFFECTIVE DATE 2/02/2007.
6. ALL RIGHT-OF-WAYS ARE PUBLIC, UNLESS NOTED OTHERWISE.
7. UTILITY LINES AND SERVICES SHOWN HEREON ARE APPROXIMATE PER AERIAL PHOTOGRAPHY OR AS REPORTED BY VARIOUS RESPONSIBLE PARTIES. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE AND MUST BE FIELD VERIFIED. CALL NC ONE CALL CENTER BEFORE DIGGING AT 811.
8. COPIES OF ALL PERMITS AND APPROVED PLANS MUST BE KEPT ON-SITE IN A PERMIT BOX THAT IS CONSPICUOUSLY LOCATED AND EASILY ACCESSIBLE DURING CONSTRUCTION.
9. A SEDIMENT AND EROSION CONTROL PLAN WILL BE APPROVED BY NCDEQ-LQS PRIOR TO BEGINNING CONSTRUCTION.
10. A DRIVEWAY PERMIT WILL BE APPROVED BY NCDOT PRIOR TO BEGINNING CONSTRUCTION.
11. PROJECT AREA, INCLUDING CONSTRUCTION STAGING AREAS, WILL BE CLEARED AND GRUBBED AS NECESSARY, RETAINING PRE-DEVELOPMENT DRAINAGE PATTERNS (I.E. NO MASS GRADING). A PORTION OF PROJECT AREAS MAY CONSIST OF TREE CLEARING ONLY (NO GRUBBING) TO ALLEVIATE SHADING OF THE ARRAY, AS INDICATED ON THE SITE PLAN. MINOR GRADING ONLY WILL OCCUR AROUND EQUIPMENT AREAS TO DIVERT SURFACE DRAINAGE. CONSTRUCTION STAGING AND AREAS SUBJECT TO RUTTING DURING CONSTRUCTION WILL BE TEMPORARILY STABILIZED WITH LOGGING MATS, WHICH WILL BE REMOVED FOLLOWING CONSTRUCTION.
12. PROPOSED TEMPORARY LAYDOWN YARD/CONSTRUCTION STAGING AREA TO BE USED DURING SITE CONSTRUCTION. A PORTION OF THIS AREA (HATCHED) WILL BE COVERED WITH LOGGING MATS TO ALLOW DELIVERY OF CONSTRUCTION MATERIALS. PRIOR TO CONSTRUCTION, THIS AREA WILL BE COMPACTED BY A SMOOTH DRUM ROLLER TO REDUCE/PREVENT RUTTING. FOLLOWING CONSTRUCTION, THE LOGGING MATS ARE REMOVED AND THE ENTIRE AREA IS RESTORED TO PRE-CONSTRUCTION CONDITIONS.
13. ACCESS AISLES ARE COMPACTED BY A SMOOTH DRUM ROLLER TO REDUCE/PREVENT RUTTING. LOGGING MATS MAY BE PLACED IN HIGH TRAFFIC OR POORLY DRAINING AREAS DURING CONSTRUCTION ACTIVITIES TO IMPROVE ACCESS.
14. PROPOSED 24' ACCESS GATE (TWO 12' SECTIONS) IS 6' TALL CHAIN LINK WITH 3 STRANDS OF BARBED WIRE. GATE WILL BE LOCKED WITH STANDARD KEYED OR COMBINATION LOCK. EMERGENCY PERSONNEL (AS DESIGNATED BY CHATHAM COUNTY) WILL BE PROVIDED A KEY OR COMBINATION FOR ACCESS.
15. NO LIGHTING IS PROPOSED FOR THIS SITE.
16. ALUMINUM SIGNS ("DANGER - HIGH VOLTAGE" AND "DANGER - NO TRESPASSING") MEASURING 14" X 10" IN SIZE, WILL BE PLACED ON PERMANENT SECURITY FENCING, ALTERNATING EVERY 100' AROUND THE ARRAY.
17. SYSTEMS, EQUIPMENT AND STRUCTURES WILL NOT EXCEED FIFTEEN (15) FEET IN HEIGHT WHEN GROUND MOUNTED. EXCLUDED FROM THIS HEIGHT REQUIREMENT, HOWEVER, ARE OVERHEAD ELECTRIC DISTRIBUTION LINES AND UTILITY POLES.
18. BEFORE ANY LAND DISTURBANCE ACTIVITIES MAY BEGIN, THE RIPARIAN BUFFER BOUNDARIES SHALL BE CLEARLY FLAGGED AND APPROVED BY COUNTY STAFF. TREE PROTECTION FENCING SHALL BE INSTALLED ALONG THE APPROVED FLAGGING LINES.

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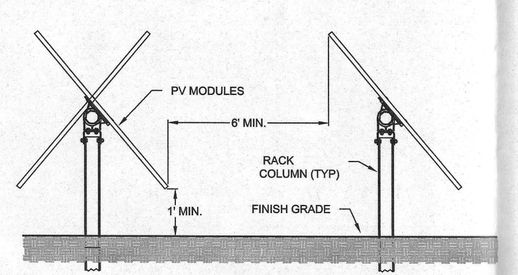
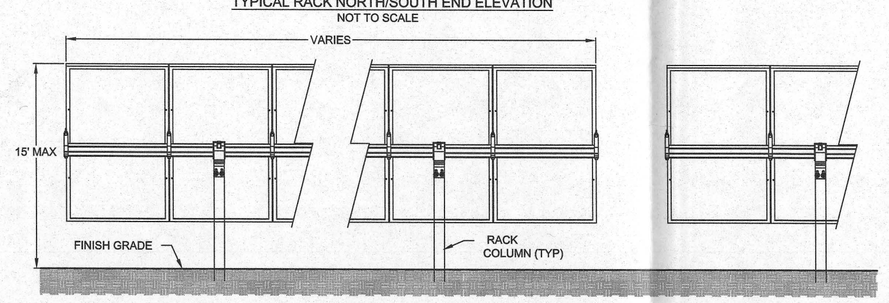



TYPICAL RACK NORTH/SOUTH END ELEVATION
NOT TO SCALE




TYPICAL TRACKER RACK EAST/WEST SIDE ELEVATION
NOT TO SCALE

## SITE PLAN LEGEND

- EXISTING PROPERTY LINE
- EXISTING PROPERTY LINE (NOT SURVEYED)
- EXISTING RIGHT-OF-WAY
- EXISTING SETBACK
- PROPOSED LEASE LINE
- EXISTING FENCE LINE
- PERMANENT SECURITY FENCE (6' CHAIN-LINK WITH 3 STRANDS BARBED WIRE)
- TEMPORARY SECURITY FENCE (6' CHAIN-LINK)
- EXISTING OVERHEAD POWER LINE
- PROPOSED OVERHEAD MEDIUM VOLTAGE LINE
- PROPOSED UNDERGROUND MEDIUM VOLTAGE LINE
- EXISTING TREE LINE
- PROPOSED TREE LINE
- PROPOSED TREE CLEARING
- PROPOSED SOLAR ARRAY
- PROPOSED EQUIPMENT AREA
- EXISTING UTILITY POLE
- PROPOSED UTILITY POLE (BY STRATA)
- PROPOSED UTILITY POLE (BY OTHERS)
- PROPOSED GUY WIRE

100 0 100 200
SCALE: 1" = 100'

NORTH CAROLINA PROFESSIONAL SEAL 44970 ENGINEER JEREMIAH SPAETH
SEAL
04/17/2018

| REV | DATE | REVISION DESCRIPTION | BY | CHK | APP |
|---|---|---|---|---|---|
| | | | | | |

4/17/2018
DATE

ZONING SITE PLAN
DRAWING DESCRIPTION

STRATA SOLAR
50101 Governors Drive
Suite 280
Chapel Hill, NC 27517
919-960-6015
www.stratasolar.com
NC License No.: D-0298

FLATWOOD
SOLAR ELECTRIC POWER PLANT
2301 CORINTH ROAD
MONCURE, NORTH CAROLINA 27559
PROJECT NAME AND ADDRESS
CHATHAM COUNTY

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| | |
|---|---|
| PROJ NO: C-507-16-FLTWD | DFTR: RBJ |
| SIZE: 24.0" x 36.0" | CHKD: JRD |
| SCALE: 1" = 100' | ENGR: JNS |
| DRAWING NO. | REVISION |
| C2.01 | 0 |