

## Project Highlights

### A 1.44 MW DC Net Metering Accessory Use (behind meter) Solar Facility

- Location: 100% cleared and devoid of vegetation.
- Proposed site plan does not interfere with operations and has access to current on-site metering.
- 3,600 400W solar modules
- Fixed tilt-ground mounted
- 8 ft panel height
- 7 ft security fence meeting NEC regulations w/25' panel set back.
- Proposed storage facility building; house/protect sensitive electrical equipment, and, access to water to clean panels (water only), if necessary

# Legal

- 1965: The North Smithfield Zoning Board of Review granted a Special Exception for office building, garage and sand washing plant.
- 2001: Judge Michael Silverstein, Rhode Island Superior Court, issues a Judgment which declared the Holliston property “is in conformity with the zoning ordinances of the Town of North Smithfield as of April 23, 2001 and as set forth in the Certificate of Zoning Compliance of same date.”
- 2013: Judge Michael Silverstein, Rhode Island Superior Court Consent Judgment, decrees that private road (Burrillville portion) “is a legal, non-conforming use of the property and shall be allowed to continue and the Town shall take no action to interfere with or interrupt said use.”

# Accessory Use Holliston Sand

## Purpose – Electrical Independence

- Solar facility sized to produce over 80% of Holliston Sand's last three-year average usage. Completely located on company owned land
  - No visual view scape to any residential properties or abutters
  - All interconnections behind meter on site; utilizing existing public right-of way electrical infrastructure
- Strict adherence to all RIDEM regulations
  - Stormwater management plan
  - Setbacks for wetlands and reservoir
- Final designs will meet all local solar ordinance requirements

# Section 6.19: Water Supply Protection Overlay District Report

- Section 6.19.8.2(3) of North Smithfield Zoning Ordinance requires an analysis that demonstrates the proposed activity will not be detrimental to the purpose of the district.
- Applicant retained services of Mr. Scott P. Rabideau, PWS, Principal of Natural Resource Services, Inc. of Harrisville, Rhode Island to determine proposed solar use on the Holliston site. While not yet a submission requirement, applicant seeks to quell any concerns at the onset of the application process.
- NRS Report conclusion, see page 4: *“Given the reasons above, the proposed solar array is not anticipated to have any negative impact on the groundwater resources of the community.”*

**SYSTEM SUMMARY**

MODULE	400 W
STRING QTY.	133
MODULES / STR	27
MODULE QTY.	3,591
TOTAL DC SIZE	1.44 MW
TOTAL AC SIZE	0.99 MW
ARRAY AZIMUTH	180°
TILT	20°

Rev	Description	Date	Chg	Chk
G	UPDATED ACCORDING TO NEW SURVEY	03/12/20	SB	XW
F	UPDATED TO NEW POLE LOCATIONS	02/13/20	SB	XW
E	UPDATED TO NEW POLE LOCATIONS	08/03/19	SB	XW
D	UPDATED TO NEW DC SIZE	01/09/20	SB	XW
C	REVISED PER COMMENTS	01/06/20	XW	RS
B	UPDATED ACCORDING TO NEW PROPERTY LINE	12/04/19	SB	XW
A	PRELIMINARY	11/06/19	SB	XW

DESIGNER'S SEAL AND SIGN



SYSTEM DESIGNER

SYSTEM OWNER

PROJECT NAME AND ADDRESS

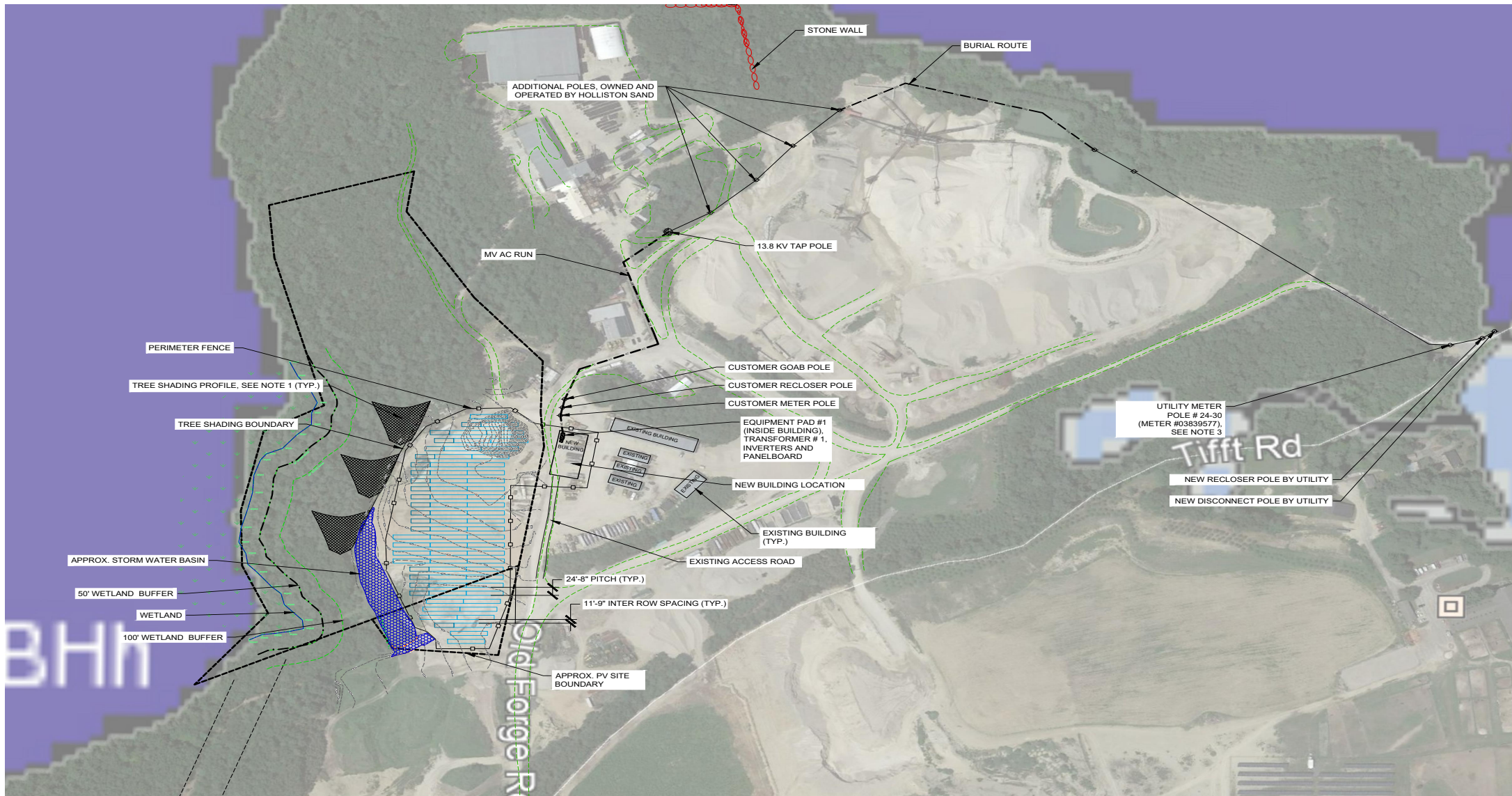
HOLLISTON SAND SOLAR  
77 TIFFT RD (POLE 24), NORTH  
SMITHFIELD, RI 02896

SHEET TITLE

PRELIMINARY GROUND MOUNT  
PV SITE PLAN

ENGINEER	-	DRAWN BY	S.BANSAL
PROJECT NO.	-	SHEET NO.	BD-01
CREATION DATE	11/06/2019		
SCALE	AS NOTED		

ARCH D



**NOTES:**

1. ALL TREE HEIGHTS ON THE DRAWING ARE ESTIMATES (50') AND NEED TO BE FIELD VERIFIED.
2. ALL POLES AND METER LOCATIONS ARE APPROXIMATES AND NEED TO BE FINALIZED.
3. EXISTING METER SHALL BE REPLACED WITH BIDIRECTIONAL METER.
4. AREA > 15 % SLOPE REQUIRES REGRADING.

