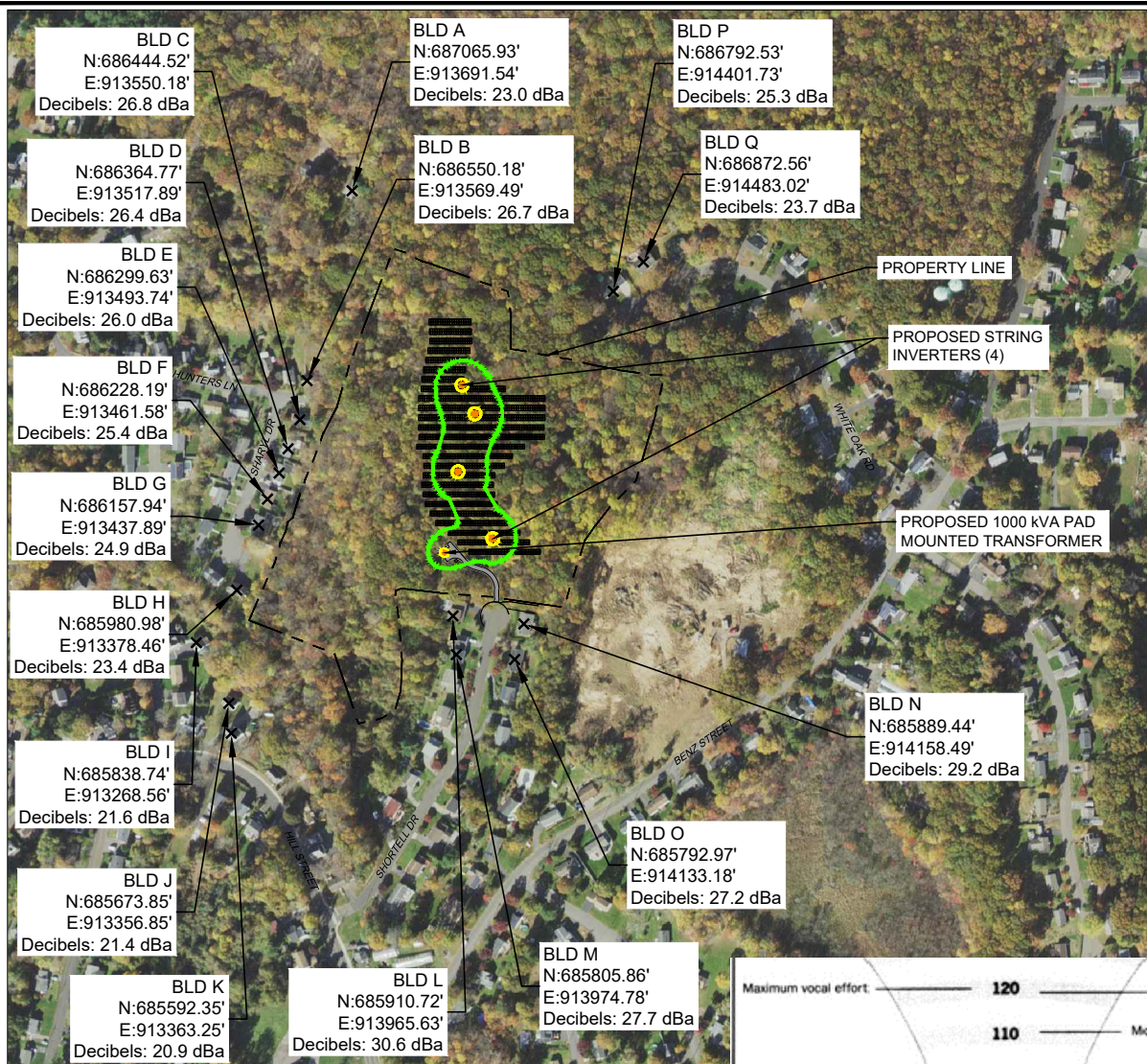


# **Exhibit N**

## **Nosie Study**

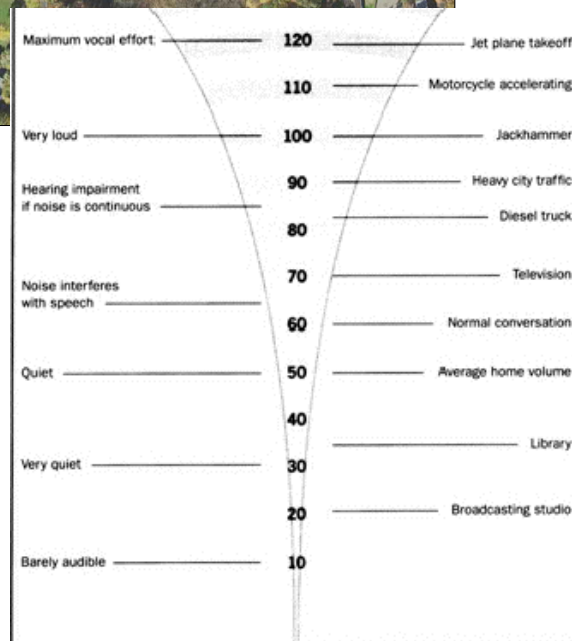
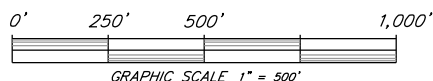


#### NOTES:

- Chint Power specifies that the CPS SCH275KTL-DO/US-800 Three Phase String Inverters create 63.8 dBA at a distance of 1 meter from the unit. Calculated sound levels for these units at 3 meters is 54.3 dBA.
- Sound levels for the Cooper 1000 kVA Pad Mounted Transformers have a sound level of 60 dBA [measured at 0.3 meter, as per NEMA TR1 (ANSI/IEEE Std. C57.12-90-1993, sec. 13.3.4)]. Assuming the measurement was taken at 1 meter to be conservative, the calculated sound level at 3 meters is 50.5 dBA.
- Other decibel ranges were derived using the following distance damping equation [ $L_2 = L_1 - 20 \text{ Log}(d_1/d_2)$ ]. This damping equation was the only factor considered in decibel range attenuation estimates. Elevation, ambient noise, vegetation, angle of solar array and other structures which would further effect the attenuation of sound levels were not considered in this study. Daytime sound levels depicted on this plan are for (4) Chint Power CPS 250kW string inverters, and (1) 1000kVA Cooper Pad Mounted Transformer with all equipment operating simultaneously at maximum noise level.
- Nighttime operation noise levels area shown on plan "Sound 2".
- Sound levels reported do not account for any background noise. Local background noise may exceed sound created by project equipment.

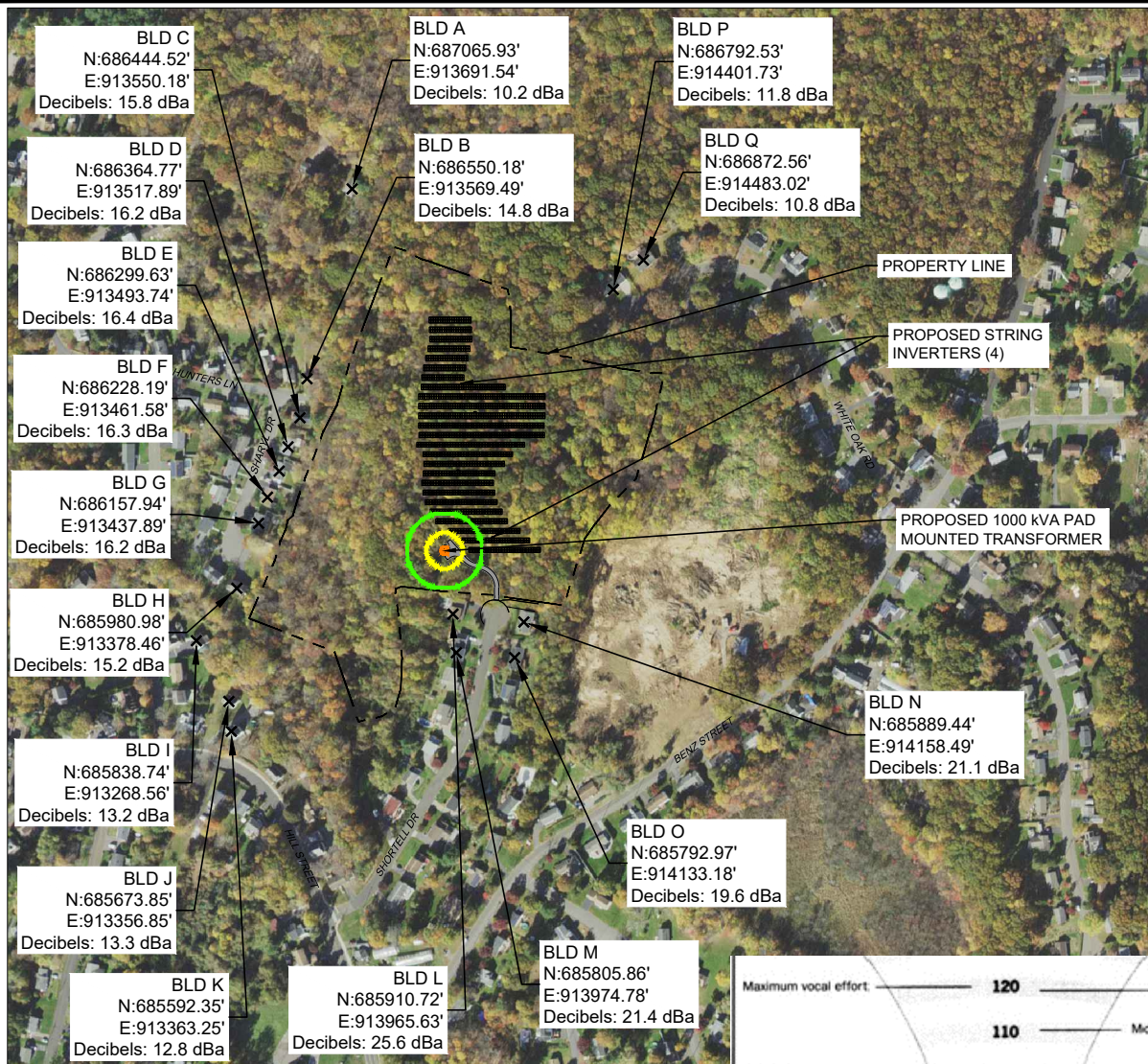
#### Legend:

- 70 dBA range
- 60 dBA range
- 50 dBA range
- 40 dBA range



Decibel Breakdown Compared to Everyday Noises



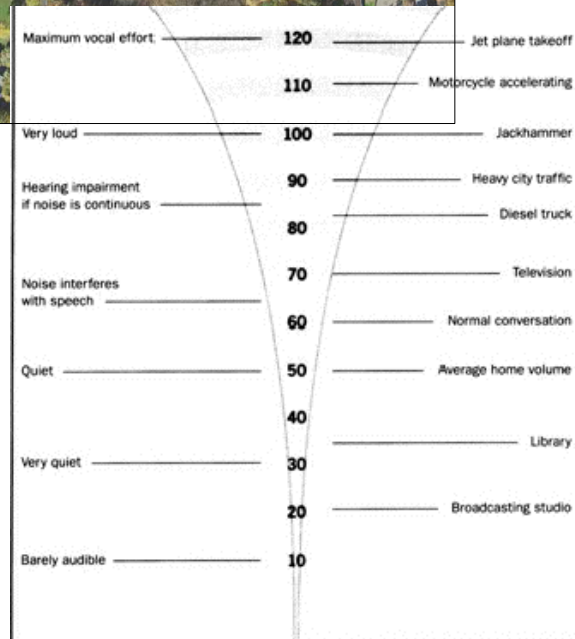
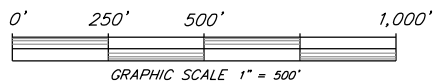


#### NOTES:

1. Sound levels for the Cooper 1000 kVA Pad Mounted Transformers have sound level of 60 dBA [measured at 0.3 meter, as per NEMA TR1 (ANSI/IEEE Std. C57.12-90-1993, sec. 13.3.4)] Assuming the measurement was taken at 1 meter to be conservative, the calculated sound level at 3 meters is 50.5 dBA.
2. Other decibel ranges were derived using the following distance damping equation [ $L_2 = L_1 - 20 \log(d_1/d_2)$ ]. This damping equation was the only factor considered in decibel range attenuation estimates. Elevation, ambient noise, vegetation, angle of solar array and other structures which would further effect the attenuation of sound levels were not considered in this study. Nighttime sound levels depicted are for the (1) 1000 kVA Cooper Pad Mounted Transformer operating at maximum noise level.
3. For nighttime calculations it was assumed that the array inverters make negligible noise when not loaded with power or operating. For the nighttime calculation we assumed they will make no noise and only modeled the (1) 1000 kVA Cooper Pad Mounted Transformer running at maximum noise.
4. Sound levels reported do not account for any background noise. Local background noise may exceed sound created by project equipment.

#### Legend:

- 50 dBA range
- 40 dBA range
- 30 dBA range



Decibel Breakdown Compared to Everyday Noises

## NIGHTTIME OPERATION SOUND LEVEL PLAN

Project: HILL STREET SOLAR

Location: ANSONIA, CT

Plan ID:

**S-2**

## BASIC SOUND LEVEL ESTIMATES FOR NOISE PRODUCED BY PROJECT TRANSFORMERS

Scale:  
1" = 500'

Date:  
5/07/25

DRAWN BY:  
JBC

CHECKED BY: JBC

Revision Date:





FAST

51.5

A  
dB

TACKLIFE



SLOW  
FAST









FAST

48.6

A  
dB

TACKLIFE



SLOW  
FAST

MAX  
MIN

HOLD







10.2

TACKLIFE

⏻

SLOW  
FAST

MAX  
MIN

HOLD  
⬇️