

Debora J. Anderson, Wetland Scientist
45 Willow Street
Norwood, MA. 02062
781-603-8421
Terrapin666888@comcast.net

February 24, 2017

Westwood Conservation Commission
Carby Street Municipal Office Building
50 Carby Street
Westwood, MA 02090

RE: Notice of Intent Application, 281 Grove Street, Westwood

Dear Commissioners:

On behalf of the Applicants, William and Mary Jo Hannigan, I am pleased to submit this Notice of Intent application for the installation of a residential solar ground mounted PV array and transformer on a parcel known as 281 Grove Street in Westwood, MA. This is a joint filing under the Massachusetts Wetlands Protection Act (WPA) and the Westwood Wetlands Protection Bylaw and Regulations (Chapter 392).

Portions of the proposed work is located in the 100-foot Buffer Zone to Bordering Vegetated Wetlands. A copy of this filing is being submitted concurrently to the Mass. Department of Environmental Protection and the Town of Westwood, Town Clerk.

Please find attached one (1) original and eight (8) copies of the following:

1. Cover Letter dated February 24, 2017
2. Filing Fee Checks
3. Notice of Intent – Project Narrative
4. WPA Form 3 – Notice of Intent
5. Conservation Commission - Time Waiver Requirement Form
6. Worksheet for Fees – Westwood Wetlands Protection Bylaw
7. A copy of the filing fee checks
8. Abutter Notification Documentation including:
 - Westwood Assessor's Certified Abutter's List & Map
 - Notification to Abutter's Under the Massachusetts Wetlands Protection Act and Westwood's Wetlands Protection Bylaw
9. Site Documentation including:
 - Town of Westwood GIS Map
 - MassGIS NHESP Map
10. Site photos

11. Plan entitled "Existing Conditions Plan in Westwood, Mass., 281 Grove Street", dated January 5, 2017, prepared by MetroWest Engineering, Inc.
12. Plan entitled "Existing Conditions Plan in Westwood, Mass., 281 Grove Street", dated January 5, 2017, final revision date February 10, 2017, prepared by Metro West Engineering, Inc.
13. Overview Plans entitled "Hannigan – 281 Grove Street", sheets 2 of 3 and 3 of 3, dated February 17, 2017, prepared by Bluesel Home Solar, Inc.

Thank you.

Sincerely,

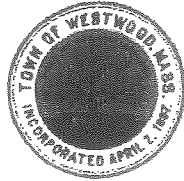


Debora J. Anderson
Wetland Scientist

Cc: Mass. Department of Environmental Protection
William and Mary Jo Hannigan, Applicant/Property Owners
Bluesel Home Solar, Inc.
Town of Westwood, Town Clerk
file

TOWN OF WESTWOOD
Commonwealth of Massachusetts

Joseph J. Previtera, Chairman
Leo J. Crowe
William Stowe
Charles Pace



Steven Woodworth, Vice Chair
Michael Ferry
John C. Masterson

CONSERVATION COMMISSION

Wetland Permit Application: Town Clerk

Westwood Conservation Commission
Westwood Town Hall
50 Carby Street
Westwood, MA 02090

Dear Commission:

I here certify that a complete copy of the application and plans submitted to the Westwood Conservation Commission for a permit under the Wetland Protection Act, M.G.L. c. 131, s40 and/or the Westwood Wetlands Protection Bylaw, Article 18 has been filed with the Westwood Town Clerk.

The application was submitted to the Town Clerk on (date) 3/2/17

Deborah Amodeo
Applicant's or Representative's Signature

3/2/17
Date

Applicant's Name William AND MARY Jo Hanigan

Project Location : 281 Grove Street

Project Type: Installation of A residential solar ground mounted PV array AND transformer.

Westwood Conservation Commission
50 Carby Street
Westwood, MA 02090

Phone (781) 251-2580
Fax (781) 461-6837

281 Corvse st.

TOWN OF WESTWOOD

Commonwealth of Massachusetts

Joseph L. Previtera, Chairman
Leo F. Crave
William Stowe
Council President



Steven Woodworth, Vice Chair
Michael Perry
John C. Masterson

CONSERVATION COMMISSION

Filing Procedure Summary

The following procedures must be followed when filing under M.G.L. c.131, §40 or the Westwood Wetlands Protection Bylaw, Article 18, for a wetland permit. The procedures apply to Notice of Intent, Abbreviated Notice of Intent, Request for Determinations, and Abbreviated Notice of Resource Area Determination. All applications for permits under M.G.L. c.131, §40 must also be filed under the Westwood Wetlands Protection Bylaw, Article 18.

This summary is not to be considered all inclusive and in no way should an applicant misconstrue its contents to replace any part of M.G.L. c.131, §40 or the Westwood Wetlands Bylaw, Article 18.

✓ Nine (9) copies of the permit application and plans must be filed with the Conservation Commission by Certified Mail or hand delivered to the Commission Wednesday before noon, two weeks prior to the meeting.

✓ One copy of the permit application must be filed with the Town Clerk at least five (5) working days prior to the public hearing. All plans and supporting documents submitted to the Conservation Commission must accompany the filing to the Town Clerk.

✓ The applicant must FAX a signed affidavit to the Conservation Commission indicating that a complete copy of the application and associated plans has been filed with the Town Clerk. The FAX number is (781) - 461- 6837.

✓ One complete copy of the application must be filed with the Department of Environmental Protection at:

Department of Environmental Protection
NERO – Wetlands Division
205B Lowell Street
Wilmington, MA 01887

✓ The application must include a certified list of abutters located within 300 feet of the property boundaries, according to the most recent records of the Town Assessors.

Westwood Conservation Commission
50 Carby Street
Westwood, MA 02090

Phone (781) 251-2580
Fax (781) 461-6837

281 Grove St.

The applicant, at the applicant's expense, shall post to each abutter by certified mail, seven (7) working days prior to the hearing, by Return Receipt Requested or Certificate of Mailing, a copy of the public hearing notice supplied to applicant by the Commission and shall state where copies of the application, including plans, may be examined. Such notice shall include the date, time and location of the public hearing.

At the applicant's expense, the Commission shall publish a legal notice in the Daily Transcript announcing the public hearing. The legal notice must be published at least five (5) working days prior to the hearing date. The notice shall include the date, time and location of the public hearing.

The application must include a signed copy of the 45 day waiver form. This allows the Commission adequate time to respond to all filings in a reasonable fashion during times of increased work load.

The application must include a copy of the Town of Westwood filing fee worksheet, a wetland transmittal worksheet and checks to cover the appropriate fees made out to the Town of Westwood.

A copy of the decision rendered by the Conservation Commission for a Determination will be sent to the applicant, to the Department of Environmental Protection and the Building Department.

The applicant must provide the Conservation Commission with the following information on or before the opening of the public hearing:

- 1 A copy of the local newspaper advertisement.
2. Proof of abutter notification sent to each abutter.

281 GROVE STREET – NOTICE OF INTENT APPLICATION NARRATIVE

EXISTING CONDITIONS

The project site, 281 Grove Street, is vacant property. The locus has a record area of 7.92 acres and was historically part of a much larger parcel of land. The property is owned by the William and Mary Jo Hannigan of 245 Grove Street. The area of the property that is the subject of this Notice of Intent filing is located mainly in the northwest section of the parcel. A field has been maintained in this section of the parcel for many years. A portion of this field is on the subject parcel and the other part of the field is located on an abutters property. The field is bound by an intermittent stream channel along its borders with the exception of the southeast portion. Bordering Vegetated Wetlands are associated with this stream and consists of wet meadow on the west portion and a tree/shrub swamp border around the perimeter of the field. Access to the field is via an upland opening in the vegetation at this southeast corner.

WETLAND RESOURCE AREAS

On December 19, 2016, Debbie Anderson, Wetlands Scientist, inspected the property located at 281 Grove Street in Westwood, Massachusetts for the presence of wetland resources as defined by the Massachusetts Wetlands Protection Act (M.G.L. Ch. 131, S. 40) and its implementing regulations (310 CMR 10.00 et seq.), the Town of Westwood Wetlands Protection Bylaw (Chapter 392), the Town of Westwood Conservation Commission Regulations, and the U.S. Clean Water Act. The following is a brief description of the wetland resources located on and adjacent to the site.

Aside from Buffer Zone, the Massachusetts Wetlands Protection Act Regulations have established five (5) freshwater resource categories: (1) Bank; (2) Bordering Vegetated Wetlands; (3) Land Under Water Bodies and Waterways; (4) Land Subject to Flooding; and (5) Riverfront Area. The site was examined and areas that qualified as any of the above resource categories were identified. Vegetated wetlands are identified by the presence of a vegetational community comprised of 50% or more wetland plant species and the presence of wetland hydrology (i.e. hydric soils and/or other indicators of hydrology). Bordering Vegetated Wetlands are delineated in accordance with the methodology set forth in "Delineating Bordering Vegetated Wetlands under the Massachusetts Wetlands Protection Act: A Handbook", dated March 1995, produced by the Massachusetts Department of Environmental Protection, Division of Wetlands and Waterways.

Two areas of Bordering Vegetated Wetlands associated with an intermittent stream channel that bounds three sides of the field were identified on and adjacent to the property. The delineated wetlands were identified with pink flagging tape and identified with flag numbers (DA A-1 to DA A-30) and flag numbers (DA B-1) to (DA B-4). The plant species identified in wetland and upland areas of the site include: Red Maple, Eastern White Pine, Yellow Birch and American Elm, Red Cedar, White Ash, White Birch and Apple in the tree and sapling layers; Multiflora Rose, Arrowwood, Red-Osier Dogwood, Greenbrier and Japanese Barberry in the shrub layer; Sensitive Fern, Soft Rush, Sedges, Goldenrods and Upland Grasses in the groundcover layer; and Oriental Bittersweet and Poison Ivy woody vines. MassDEP Bordering Vegetated Wetland Field Data Forms are attached for a data point at (DA B-1).

A line running parallel to and 100-feet from the delineated Bordering Vegetated Wetland flags encompasses the Buffer Zone to the wetland and is regulated by the Massachusetts Wetlands Protection Act and the Westwood Wetlands Protection Bylaw.

As part of the wetland evaluation for this site, the Massachusetts Natural Heritage Atlas, October 1, 2008 Edition, published by the Massachusetts Natural Heritage and Endangered Species Program, was reviewed. According to the Atlas, the site does not exist within any area designated as an Estimated Habitat of Rare Wetlands Wildlife or Priority Habitat. According to the Atlas, there are no Certified or Potential Vernal Pools located within 200-feet of the site.

PROPOSED WORK

The application in front of the Commission requests permission to install a residential solar ground mounted PV array and associated transformer. The entire project will be located outside of the 50-foot Buffer Zone with the exception of a portion of the temporary trenching required to install the electric conduit from the transformer, located near the house at 245 Grove Street to the solar array located in the field via the upland access route in the southeast corner of the field. Erosion/sediment controls consisting of compost socks are proposed to protect the resource areas and act as the limit of work.

The total disturbance for the project includes: solar panels within the 100-foot Buffer Zone totaling 425 square feet; solar panels and utility pedestal located outside of the 100-foot Buffer Zone totaling 641 square feet; and temporary trenching located outside of the 100-foot Buffer Zones totaling 1,428 square feet. The entire area of disturbance within the 100-foot Buffer Zone will be 425 square feet for the solar panels and a temporary impact of 1,428 square feet for the trenching required to install the electric conduit. The area below and around the solar panels will be maintained as field through mowing. No vegetation will be removed for the project and no grading is required.

The Applicant is requesting the Commission approve a project to install solar panels to produce electricity. The use of solar power as a renewable energy source is becoming more and more popular. The Applicants are proposing the installation of the solar array in an area that is well hidden due to the vegetation surrounding the field, therefore; minimizing visual impact to abutters. No vegetation is required for the installation of the panels and the transformer.

COMPLIANCE WITH THE PERFORMANCE STANDARDS DEFINED IN 310 CMR 10.00

310 CMR 10.02: Statement of Jurisdiction

(2) Activities Subject to Regulation under M.G.L. c. 131, § 40.

(a) Activities Within the Areas Subject to Protection under M.G.L. c. 131, § 40. Any activity proposed or undertaken within an area specified in 310 CMR 10.02(1), which will remove, fill, dredge or alter that area, is subject to Regulation under M.G.L. c. 131, § 40 and requires the filing of a Notice of Intent except:

(b) Activities Within the Buffer Zone. Any activity other than minor activities identified in 310 CMR 10.02(2)(b)2. proposed or undertaken within 100 feet of an area specified in 310 CMR 10.02(1)(a) (hereinafter called the Buffer Zone) which, in the judgment of the issuing authority, will alter an Area Subject to Protection under M.G.L. c. 131, § 40 is subject to regulation under M.G.L. c. 131, § 40 and requires the filing of a Notice of Intent. (See also 310 CMR 10.05(3)(a)2.). The areas subject to jurisdiction identified in 310 CMR 10.02(1)(b) through (f) do not have a buffer zone.

2. The following minor activities, provided that they comply with 310 CMR 10.02(2)(b)1., are not otherwise subject to regulation under M.G.L. c. 131, § 40:

e. The conversion of lawn to uses accessory to residential structures such as decks, sheds, patios, pools, replacement of a basement bulkhead and the installation of a ramp for compliance with accessibility requirements, provided the activity, including material staging and stockpiling is located more than 50 feet from the mean annual high-water line within the Riverfront Area, Bank or from Bordering Vegetated Wetland, whichever is farther, and erosion and sedimentation controls are implemented during construction. The conversion of such uses accessory to existing single family houses to lawn is also allowed. (Mowing of lawns is not subject to jurisdiction under 310 CMR 10.00);

Other Resource Areas

10.54: Bank (Naturally Occurring Banks and Beaches)

Banks are likely to be significant to public or private water supply, to ground water supply, to flood control, to storm damage prevention, to the prevention of pollution and to the protection of fisheries and wildlife habitat. Where Banks are composed of concrete, asphalt or other artificial impervious material, said Banks are likely to be significant to flood control and storm damage prevention.

Where a proposed activity involves the removing, filling, dredging or altering of a Bank, the issuing authority shall presume that such area is significant to the interests specified in 310 CMR 10.54(1). This presumption is rebuttable and may be overcome upon a clear showing that the Bank does not play a role in the protection of said interests. In the event that the presumption is deemed to have been overcome, the issuing authority shall make a written determination to this effect, setting forth its grounds (Form 6).

No work is proposed on the Banks of the intermittent stream.

10.55: Bordering Vegetated Wetlands (Wet Meadows, Marshes, Swamps and Bogs)

Bordering Vegetated Wetlands are likely to be significant to public or private water supply, to ground water supply, to flood control, to storm damage prevention, to prevention of pollution, to the protection of fisheries and to wildlife habitat.

Presumption: Where a proposed activity involves the removing, filling, dredging or altering of a Bordering Vegetated Wetland, the issuing authority shall presume that such area is significant to the interests specified in 310 CMR 10.55(1). This presumption is rebuttable and may be overcome upon a clear showing that the Bordering Vegetated Wetland does not play a role in the protection of said interests. In the event that the presumption is deemed to have been overcome, the issuing authority shall make a written determination to this effect, setting forth its grounds (Form 6).

This project does not propose work within Bordering Vegetated Wetlands.

10.56: Land Under Water Bodies and Waterways (Under any Creek, River, Stream, Pond or Lake)

Land Under Water Bodies and Waterways is likely to be significant to public and private water supply, to ground water supply, to flood control, to storm damage prevention, to prevention of pollution and to protection of fisheries and wildlife habitat. Where such land is composed of concrete, asphalt or other artificial impervious material, said land is likely to be significant to flood control and storm damage prevention.

Where Land Under Water Bodies and Waterways is composed of pervious material, such land represents a point of exchange between surface and ground water.

Where a project involves removing, filling, dredging or altering of Land Under Water Bodies and Waterways, the issuing authority shall presume that such area is significant to the interests specified in 310 CMR 10.56(1). This presumption is rebuttable and may be overcome upon a clear showing that said land does not play a role in the protection of said interests. In the event that the presumption is deemed to have been overcome, the issuing authority shall make a written determination to this effect, setting forth the grounds (Form 6).

This project does not include work in Land Under Water Bodies and Waterways

10.57: Land Subject to Flooding (Bordering and Isolated Areas)

Bordering Land Subject to Flooding is an area which floods from a rise in a bordering waterway or water body. Such areas are likely to be significant to flood control and storm damage prevention.

Where a project involves removing, filling, dredging or altering of Land Subject to Flooding (both Bordering and Isolated Areas) the issuing authority shall presume that such an area is significant to, and only to, the respective interests specified in 310 CMR 10.57(1)(a) and (b). This presumption may be overcome only upon a clear showing that said land does not play a role in the protection of said interests. In the event that the presumption is deemed to have been overcome, the issuing authority shall make a written determination to this effect, setting forth its grounds (Form 6).

No Bordering Land Subject to Flooding is located on the site associated with the intermittent stream.

WESTWOOD WETLANDS BYLAW AND REGULATIONS**REGULATIONS: BUFFER ZONE ACTIVITY REGULATIONS****SECTION A: PERMITS AND CONDITIONS****A-8 PERMANENT STRUCTURES IN UPLAND BUFFER ZONE RESOURCE AREAS**

In order to avoid adverse impacts to Wetland Resource Areas and Upland Buffer Zone Resources Areas, the Commission may require all permanent structures to remain outside the Upland Buffer Zone Resource Area. In certain cases, e.g. where there is already an existing structure within a Wetland Resource Area or Upland Buffer Zone Resource Area, or in the case of a legal building lot created prior to March 1, 1998, the Commission, in order to avoid hardship to the property owner, may permit structures or additions to structures

within the Upland Buffer Zone Resource Area. In such cases, the Commission may require mitigation in the form of plantings to enhance an existing vegetated buffer before allowing any further alteration in any part of the Upland Buffer Zone Resource Area.

The proposed project consists of the installation of a residential solar array and transformer within an existing maintained field and adjacent to the home at 245 Grove Street. The proposed solar array will be located more than 50-feet from the delineated edge of Bordering Vegetated Wetlands within an existing maintained field. No tree and natural vegetation removal is proposed and erosion and sediment control measures will be employed during installation.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands

Provided by MassDEP:

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

MassDEP File Number

Document Transaction Number

Westwood

City/Town

Important:
 When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Note:
 Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

A. General Information

1. Project Location (Note: electronic filers will click on button to locate project site):

281 Grove Street Westwood 02090
 a. Street Address b. City/Town c. Zip Code
 Latitude and Longitude: 42° 14' 39.5772" N 71° 13' 1.4304" W
 d. Latitude e. Longitude
5/127 19A
 f. Assessors Map/Plat Number g. Parcel /Lot Number

2. Applicant:

William and Mary Jo Hannigan
 a. First Name b. Last Name
 c. Organization
245 Grove Street
 d. Street Address
Westwood MA 02090
 e. City/Town f. State g. Zip Code
 h. Phone Number i. Fax Number j. Email Address

3. Property owner (required if different from applicant): Check if more than one owner

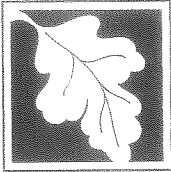
Mary Jo Hannigan, Trustee
 a. First Name b. Last Name
Grove Street Meadow 281 Nominee Trust
 c. Organization
245 Grove Street
 d. Street Address
Westwood MA 02090
 e. City/Town f. State g. Zip Code
 h. Phone Number i. Fax Number j. Email address

4. Representative (if any):

Debora Anderson
 a. First Name b. Last Name
 c. Company
45 Willow Street
 d. Street Address
Norwood MA 02062
 e. City/Town f. State g. Zip Code
781-603-8421 Terrapin666888@comcast.net
 h. Phone Number i. Fax Number j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

\$500.00 \$237.50 \$262.50
 a. Total Fee Paid b. State Fee Paid c. City/Town Fee Paid



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 3 – Notice of Intent
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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A. General Information (continued)

6. General Project Description:

The proposed project includes the installation of a residential solar ground mounted PV array and Associated transformer. A portion of the work is located in the 100-foot Buffer Zone to BVW.

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

- | | |
|---|---|
| 1. <input checked="" type="checkbox"/> Single Family Home | 2. <input type="checkbox"/> Residential Subdivision |
| 3. <input type="checkbox"/> Commercial/Industrial | 4. <input type="checkbox"/> Dock/Pier |
| 5. <input type="checkbox"/> Utilities | 6. <input type="checkbox"/> Coastal engineering Structure |
| 7. <input type="checkbox"/> Agriculture (e.g., cranberries, forestry) | 8. <input type="checkbox"/> Transportation |
| 9. <input type="checkbox"/> Other | |

7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

1. Yes No If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR 10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Norfolk
 a. County

#184382

b. Certificate # (if registered land)

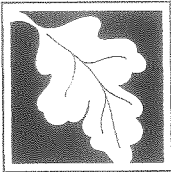
c. Book

d. Page Number

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 3 – Notice of Intent
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Bank	1. linear feet _____	2. linear feet _____
b. <input type="checkbox"/> Bordering Vegetated Wetland	1. square feet _____	2. square feet _____
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet _____ 3. cubic yards dredged _____	2. square feet _____

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet _____ 3. cubic feet of flood storage lost _____	2. square feet _____ 4. cubic feet replaced _____
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet _____ 2. cubic feet of flood storage lost _____	3. cubic feet replaced _____
f. <input type="checkbox"/> Riverfront Area	1. Name of Waterway (if available) - specify coastal or inland _____	

2. Width of Riverfront Area (check one):

- 25 ft. - Designated Densely Developed Areas only
- 100 ft. - New agricultural projects only
- 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project: _____ square feet

4. Proposed alteration of the Riverfront Area:

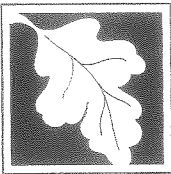
a. total square feet _____ b. square feet within 100 ft. _____ c. square feet between 100 ft. and 200 ft. _____

5. Has an alternatives analysis been done and is it attached to this NOI? Yes No

6. Was the lot where the activity is proposed created prior to August 1, 1996? Yes No

3. Coastal Resource Areas: (See 310 CMR 10.25-10.35)

Note: for coastal riverfront areas, please complete **Section B.2.f.** above.



WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

MassDEP File Number

Document Transaction Number

Westwood

City/Town

B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

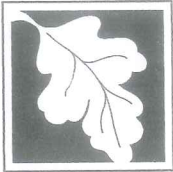
Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	_____	
	1. square feet	

	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	_____	_____
	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	_____	_____
	1. square feet	2. cubic yards dune nourishment
	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	_____	
	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	_____	
	1. square feet	
h. <input type="checkbox"/> Salt Marshes	_____	_____
	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	_____	
	1. square feet	

	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	_____	
	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	

	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	_____	
	1. square feet	
4. <input type="checkbox"/> Restoration/Enhancement	If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.	
	_____	_____
	a. square feet of BVW	b. square feet of Salt Marsh
5. <input type="checkbox"/> Project Involves Stream Crossings		
	_____	_____
	a. number of new stream crossings	b. number of replacement stream crossings



WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

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C. Other Applicable Standards and Requirements

- This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

- a. Yes No **If yes, include proof of mailing or hand delivery of NOI to:**

**Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581**

10/1/2008

b. Date of map

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); *OR* complete Section C.2.f, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

- c. Submit Supplemental Information for Endangered Species Review*

1. Percentage/acreage of property to be altered:

(a) within wetland Resource Area

percentage/acreage

(b) outside Resource Area

percentage/acreage

2. Assessor's Map or right-of-way plan of site

2. Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **

(a) Project description (including description of impacts outside of wetland resource area & buffer zone)

(b) Photographs representative of the site

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/>). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

** MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 3 – Notice of Intent
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Westwood

City/Town

C. Other Applicable Standards and Requirements (cont'd)

(c) MESA filing fee (fee information available at http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/ mesa/ mesa_fee_schedule.htm). Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

Projects altering 10 or more acres of land, also submit:

(d) Vegetation cover type map of site

(e) Project plans showing Priority & Estimated Habitat boundaries

(f) OR Check One of the Following

1. Project is exempt from MESA review. Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/ mesa/ mesa_exemptions.htm; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. Separate MESA review ongoing. a. NHESP Tracking # _____ b. Date submitted to NHESP _____

3. Separate MESA review completed. Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

a. Not applicable – project is in inland resource area only b. Yes No

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

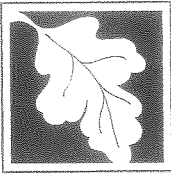
South Shore - Cohasset to Rhode Island border, and the Cape & Islands:

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -
 Southeast Marine Fisheries Station
 Attn: Environmental Reviewer
 1213 Purchase Street – 3rd Floor
 New Bedford, MA 02740-6694
 Email: DMF.EnvReview-South@state.ma.us

Division of Marine Fisheries -
 North Shore Office
 Attn: Environmental Reviewer
 30 Emerson Avenue
 Gloucester, MA 01930
 Email: DMF.EnvReview-North@state.ma.us

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.



WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

MassDEP File Number

Document Transaction Number

Westwood

City/Town

C. Other Applicable Standards and Requirements (cont'd)

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
 a. Yes No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.
-
- b. ACEC
5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
 a. Yes No
6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
 a. Yes No
7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
 a. Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
 1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
 2. A portion of the site constitutes redevelopment
 3. Proprietary BMPs are included in the Stormwater Management System.
 b. No. Check why the project is exempt:
 1. Single-family house
 2. Emergency road repair
 3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

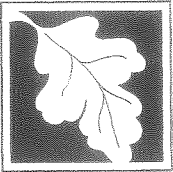
D. Additional Information

- This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 3 – Notice of Intent
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Westwood

City/Town

D. Additional Information (cont'd)

3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.

4. List the titles and dates for all plans and other materials submitted with this NOI.

"Existing Conditions Plan in Westwood, Mass., 281 Grove Street"

a. Plan Title

MetroWest Engineering, Inc.

Robert A. Gemma, P.L.S.

b. Prepared By

c. Signed and Stamped by

February 10, 2017

1"=20'

d. Final Revision Date

e. Scale

f. Additional Plan or Document Title

g. Date

5. If there is more than one property owner, please attach a list of these property owners not listed on this form.

6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.

7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.

8. Attach NOI Wetland Fee Transmittal Form

9. Attach Stormwater Report, if needed.

E. Fees

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

1396

2/22/17

2. Municipal Check Number

3. Check date

1394

2/22/17

4. State Check Number

5. Check date

Bluesel Home Solar, Inc.

6. Payor name on check: First Name

7. Payor name on check: Last Name

HANNIGAN FOR 281 GROVE ST., WESTWOOD, MA 02090



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

City/Town

E. Fees

- Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

2. Municipal Check Number	3. Check date
4. State Check Number	5. Check date
6. Payor name on check: First Name	7. Payor name on check: Last Name

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

WILLIAM AND MARY-JO HANNIGAN

William Hannigan
Mary-Jo Hannigan

1. Signature of Applicant(s)

2. Date

2/16/2017

3. Signature of Property Owner (if different)

4. Date

2/16/2017

MICHAEL TANGHE

5. Signature of Representative (if any)

6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a copy of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



A. Applicant Information

1. Location of Project:

281 Grove Street Westwood
 a. Street Address b. City/Town
 1394 \$237.50
 c. Check number d. Fee amount

2. Applicant Mailing Address:

William and Mary Jo Hannigan
 a. First Name b. Last Name

 c. Organization
 245 Grove Street
 d. Mailing Address
 Westwood MA 02090
 e. City/Town f. State g. Zip Code
 617-842-4448 wjhannigan@verizon.net
 h. Phone Number i. Fax Number j. Email Address

3. Property Owner (if different):

Mary Jo Hannigan, Trustee
 a. First Name b. Last Name
 Grove Street Meadow 281 Nominee Trust
 c. Organization
 245 Grove Street
 d. Mailing Address
 Westwood MA 02090
 e. City/Town f. State g. Zip Code
 617-842-4448 wjhannigan@verizon.net
 h. Phone Number i. Fax Number j. Email Address

B. Fees

Fee should be calculated using the following process & worksheet. **Please see Instructions before filling out worksheet.**

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

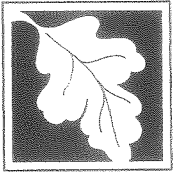
Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Category 2d: electric generating	1	\$500.00	\$500.00
facility activities			

Step 5/Total Project Fee: \$500.00

Step 6/Fee Payments:

Total Project Fee:	\$500.00
	a. Total Fee from Step 5
State share of filing Fee:	\$237.50
	b. 1/2 Total Fee less \$12.50
City/Town share of filing Fee:	\$262.50
	c. 1/2 Total Fee plus \$12.50

C. Submittal Requirements

a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

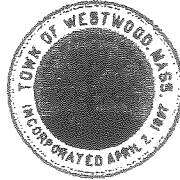
Department of Environmental Protection
 Box 4062
 Boston, MA 02211

b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and the city/town fee payment.

To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)

TOWN OF WESTWOOD
Commonwealth of Massachusetts

Joseph J. Priorella, Chairman
Lyn F. Crowe
William Street
Charles Pace



Steven Woodworth, Vice Chair
Michael Ferry
John C. Masterson

CONSERVATION COMMISSION

Time Waiver Requirement

Westwood Conservation Commission
Westwood Town Hall
50 Carby Street
Westwood, MA 02090

Dear Commission:

I hereby waive the benefit of the time requirements set forth in Chapter 131 s. 40, (Wetland Protection Act) of the Massachusetts General Laws, 310 CMR. 10.00 Regulations, and the Town of Westwood Wetlands Protection By-Law, which require the Conservation Commission to convene a hearing and issue a Determination or Order within the time periods specified therein.

The public hearing shall be scheduled for the next available time slot on the meeting agenda upon receipt of the filing of a COMPLETE Notice of Intent or Request for Determination of Applicability.

The Order of Conditions or Determination of Applicability shall be issued within 45 days of the close of the public hearing.

Debra Anderson
Applicant's or Representative's Signature

2/24/17
Date

Applicant's Name William and Mary Jo Hannigan

Project Location : 281 Grove Street

Project Type: Installation of A residential solar ground mounted PV array and transformer.

Westwood Conservation Commission
50 Carby Street
Westwood, MA 02090

Phone (781) 251-2580
Fax (781) 461-6837

Worksheet for Fees
Westwood Wetlands Bylaw – Article 18
(in Addition to DEP filing Fees)

Applicant: William and Mary Jo Hannigan

Address: 245 Coroue Street, Westwood

Location of Project: 281 Coroue Street

Notice of Intent

- | | | |
|---|-------------------------------------|--|
| 1. Minor project | <input checked="" type="checkbox"/> | \$100.00 |
| 2. Major project | <input type="checkbox"/> | \$250.00 plus \$1.00 additional sq. ft. |
| 3. New single family home | <input type="checkbox"/> | \$500.00 plus \$1.00 per 10 sq. ft. of disturbance |
| 4. Subdivision road and utility | <input type="checkbox"/> | \$750.00 plus \$5.00 per road sideline in resource or buffer zone |
| 5. Drainage detention/retention | <input type="checkbox"/> | \$750.00 plus \$1.00 per 10cf. of basin in resource or buffer zone |
| 6. Multiple Dwelling | <input type="checkbox"/> | \$500.00 plus \$100.00/unit and \$1.00 per 10 sq. ft. of disturbance |
| 7. Commercial institutional, industrial | <input type="checkbox"/> | \$750.00 plus \$1.00 per 10 sq. ft. of disturbance |
| 8. Request for Det. of Applicability | <input type="checkbox"/> | @ \$50.00 |
| 9. ANORAD | <input type="checkbox"/> | \$750.00 plus \$1.00 per 10 sq. ft. of disturbance |
| 10. Application filed after enforcement | <input type="checkbox"/> | Double application fees |
| 11. Amendments | <input type="checkbox"/> | \$100.00 |
| 12. Certificate of Compliance | | |
| Residence | <input type="checkbox"/> | \$100.00 |
| Non Residence | <input type="checkbox"/> | \$100.00 |
| Commercial or subdivision | <input type="checkbox"/> | \$200.00 |
| 13. Emergency Certificate | <input type="checkbox"/> | \$100.00 |
| 14. Agent Site Visit | | |
| Resident | <input type="checkbox"/> | \$25.00 per hour |
| Non Resident | <input type="checkbox"/> | \$45.00 per hour |

Total \$ 100.-

See Westwood Wetlands Protection Bylaw Regulations for more detail.



**TOWN OF WESTWOOD
BOARD OF ASSESSORS**

580 High St.
Westwood, Ma. 02090

Maureen Bleday
Michael P. Krone
Mark F. Murphy

phone: 781-326-1904
fax: 781-251-2588

February 6, 2017

*Grove Street Meadow 281 Nominee Trust
M F Hannigan & J C Platt Trustees
120 Culloden Drive
Canton, Mass 02021*

Dear Grove Street Meadow 281 Nominee Trust,

*Attached please find a list of abutters and abutters to abutters within 300' of the locus,
281 Grove St., Westwood known as Assessor's Map 05, Lot 127.*

*This list reflects owners of record as of January 1, 2017 or current owners, according to our
records.*

Sincerely,


Michael Krone
Assessor

djr

ABUTTERS LIST FOR 281 GROVE ST
WESTWOOD, MA

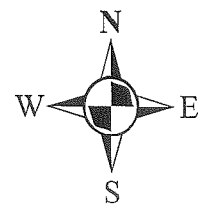
MAP & LOT	OWNER	CO-OWNER	Mailing Address	City	St Zip	Location
03009	KLIMA J V & LORBER M	TRUS SUMMER ST REALTY TRUST	429 SUMMER ST	WESTWOOD	MA 02090	409 SUMMER ST
03011	J FRANK&ELIZABETH W KOEHA	KEOHANE WESTWOOD REALTY T	359 SUMMER ST	WESTWOOD	MA 02090	359 SUMMER ST
03012	FUSCO KRISTIN B		155 GROVE ST	WESTWOOD	MA 02090	155 GROVE ST
03013	DANGELO STEVEN	HELENA S DANGELO	151 GROVE ST	WESTWOOD	MA 02090	151 GROVE ST
05019	HATHORNE ESTATE REALTY TR	ERIC J & JULIA B WOODARD	303 GROVE ST	WESTWOOD	MA 02090	303 GROVE ST
05020	THOMPSON PETER C	JOAN J THOMPSON	217 GROVE ST	WESTWOOD	MA 02090	217 GROVE ST
05022	RANDS ROBERT D	AMELIA R RANDS	157 GROVE ST	WESTWOOD	MA 02090	157 GROVE ST
05025	KJELLMAN JOANNA C		258 GROVE ST	WESTWOOD	MA 02090	258 GROVE ST
05026	FRISOLI MICHAEL R	KERRY L FISOLI	304 GROVE ST	WESTWOOD	MA 02090	304 GROVE ST
05111	SHARIFZADEH KHALIL	SIMIN SHARIFZADEH	246 GROVE ST	WESTWOOD	MA 02090	246 GROVE ST
05119	PRICE GEORGE W	ELENA M PRICE	325 SUMMER ST	WESTWOOD	MA 02090	325 SUMMER ST
05120	OTEY MICHAEL	ILANA OTEY	315 SUMMER ST	WESTWOOD	MA 02090	315 SUMMER ST
05122	KAREN MANOR TRUSTEE	LEE ESTATE REALTY TRUST	303 GROVE STREET	WESTWOOD	MA 02090	315 GROVE ST
05123	TIERNEY JOHN J	MARGARET L HEGER	232 GROVE STREET	WESTWOOD	MA 02090	295 GROVE ST
05124	MCFARLAND DUNCAN M		299 CLAPBOARDTREE ST	WESTWOOD	MA 02090	263 GROVE ST
05125	GROVE STREET MEADOW	245 N M F HANNIGAN & J C PLATT	C/O MARY- JO F HANNIGAN	CANTON	MA 02021	245 GROVE ST
05127	GROVE STREET MEADOW	281 N M F HANNIGAN & J C PLATT	C/O MARY-JO F HANNIGAN	CANTON	MA 02021	281 GROVE ST

ABUTTERS FOR 281 GROVE ST



MAP 05, LOT 127

WESTWOOD BOARD OF ASSESSORS



NOTICE TO ABUTTERS
Under the Massachusetts Wetlands Protection Act
and
Westwood Wetland Bylaw

Notice of Intent

The Westwood Conservation Commission will hold a public hearing, under M.G.L. Chapter 131, Section 40 and the Westwood Wetland Bylaw on

Date: 3/22/2017

Time: 7:00 p.m.

Place: Carby Street Municipal Office Building
50 Carby Street
Westwood, MA. 02090

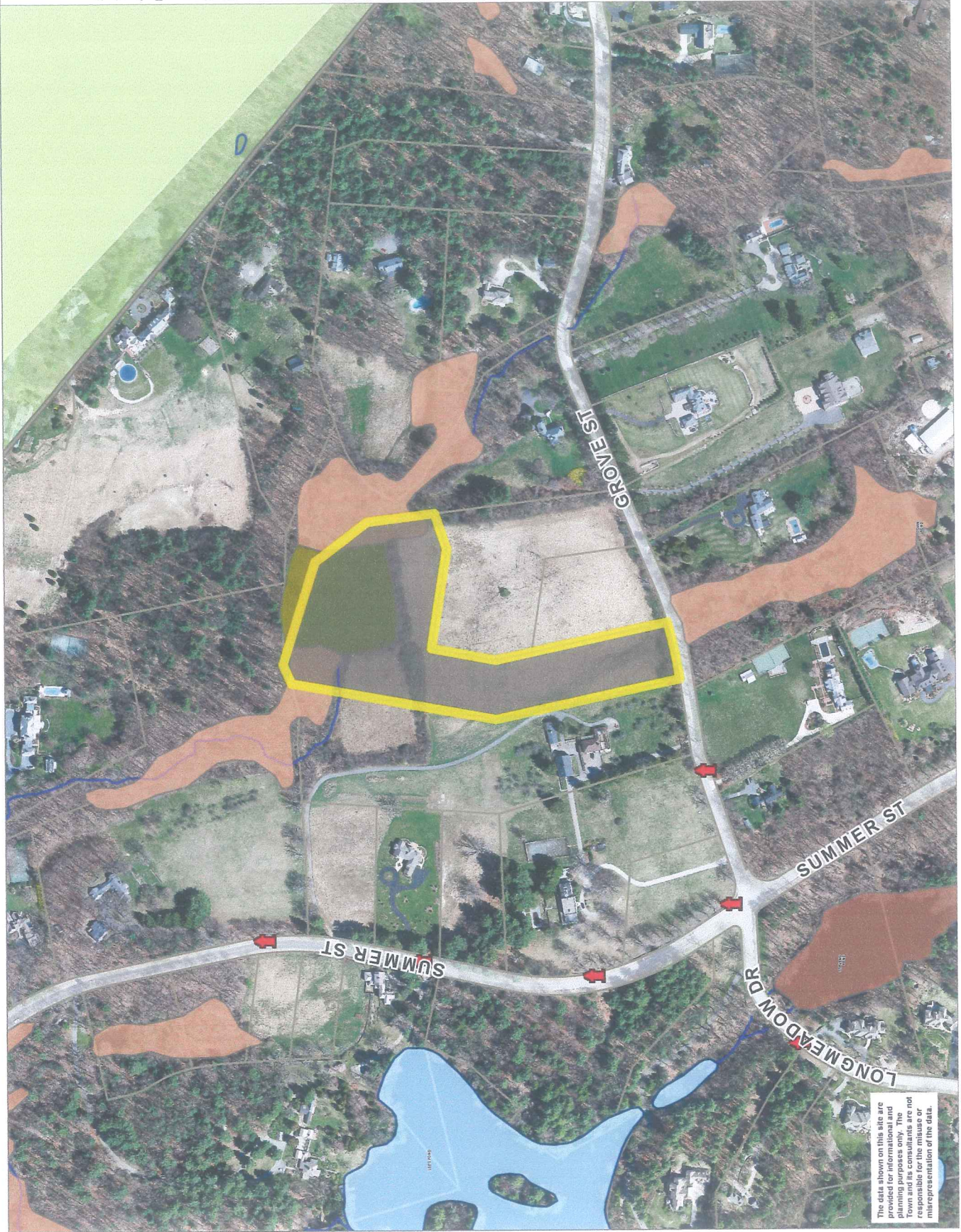
A permit is requested by William + Mary Jo Hannigan
of 245 Croone Street

The property is located at 281 Croone Street

A complete copy of this filing is available to the public at the Westwood Conservation Commission office. Notice of the Conservation Commission meeting is posted in the Town Hall not less than 48 hours in advance as required by Open Meeting Law.



- Address Numbers
- Veterans Park Paths
- Veterans Park Bicycles
- Hydrants
- In Service
- Out of Service
- Repair Requested
- Built
- Trains
- Wetlands (Misc(S))
- Deep Marsh
- Open Water
- Shallow Marsh Meadow
- Shrub Swamp
- Wooded Swamp Confil
- Wooded Swamp Decic
- Wooded Swamp Intac
- Wetlands (State Restricted)
- Wetlands (Town)
- NHESP Certified Vernal Pools
- Parcels
- Play with Onitros
- Train ROW
- Road ROW
- MA Highways
- US Highway
- Numbered Routes
- Town Boundary
- Abutting Towns

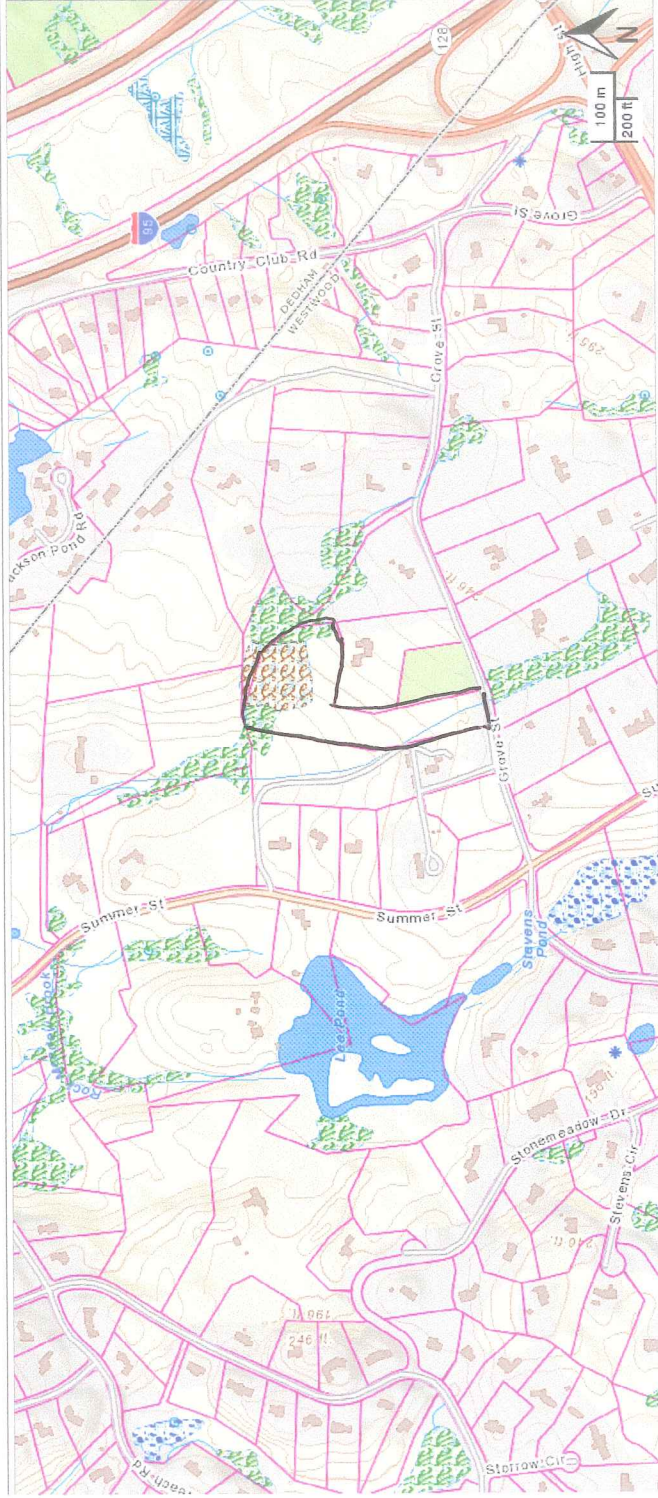


The data shown on this site are provided for informational and planning purposes only. The data is not intended to be used for legal purposes. The user is responsible for the misuse or misrepresentation of the data.



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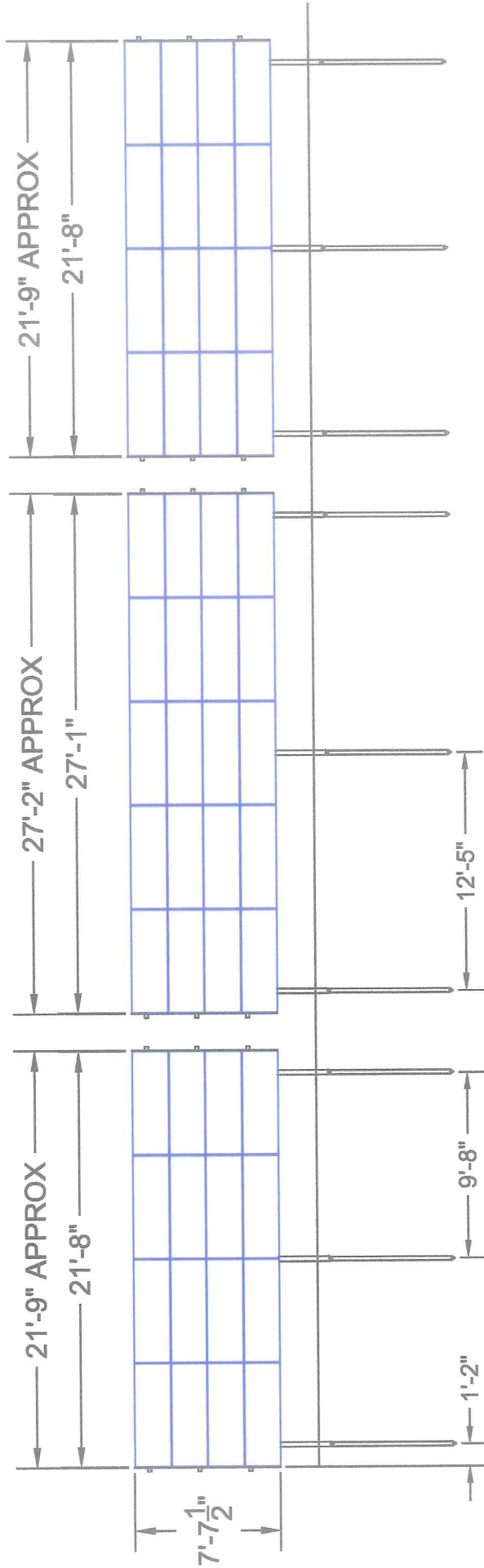
281 Grove Street, Westwood



DEP Wetlands Hydrologic Connections	NHESP Priority Habitats of Rare Species	Potential Vernal Pools
DEP Wetlands Linear Features SHORELINE	NHESP Estimated Habitats of Rare Wildlife	NHESP Certified Vernal Pools
HYDROLOGIC CONNECTION	Tax Parcels for Query	Detailed Features
MEAN WATER LINE	Tax Parcels	Tax Parcels
WETLAND LIMIT	Structures	Structures
CLOSURE LINE	MassGIS Statewide Basemap	MassGIS Topographic Features Basemap
DEP Wetlands Detailed		
Barrier Beach System		
Barrier Beach-Deep Marsh		
Barrier Beach-Wooded Swamp Mixed Trees		
Barrier Beach-Coastal Beach		
Barrier Beach-Coastal Dune		
Barrier Beach-Marsh		
Barrier Beach-Salt Marsh		
Barrier Beach-Shrub Swamp		
Barrier Beach-Wooded Swamp Coniferous		
Barrier Beach-Wooded Swamp Deciduous		
Bog		
Coastal Bank Bluff or Sea Cliff		
Coastal Beach		
Coastal Dune		
Cranberry Bog		
Deep Marsh		
Barrier Beach-Open Water		
Open Water		
Rocky Intertidal Shore		
Salt Marsh		
Shallow Marsh Meadow or Fen		
Shrub Swamp		
Tidal Flat		
Wooded Swamp Coniferous		
Wooded Swamp Deciduous		
Wooded Swamp Mixed Trees		

Proprietary and Confidential Information.
 Disclosure without prior consent of
 Blue Selenium Solar, LLC is prohibited.

REVISIONS:		
NO.	DATE	BY
		ECN #



GROUND MOUNTED
 SOLAR ARRAY
 (FRONT VIEW)

RESIDENTIAL SOLAR
 GROUND MOUNTED
 PHOTOVOLTAIC INSTALLATION:

HANNIGAN, WILLIAM
 281 GROVE ST.,
 WESTWOOD, MA 02090

GROUND MOUNT = 35 DEG TILT
 AZIMUTH = 180 DEG

AVERAGE TSRF = 90% ASSUMED

MODULES:
 LG320N1C-G4

WESTWOOD, MA
 WIND SPEED = 105 MPH
 SNOW LOAD = 40 PSF

RACK:
 SUNMODO CORPORATION
 4 ROWS PER COLUMN IN LANDSCAPE
 AUGER GROUND MOUNTED SYSTEM

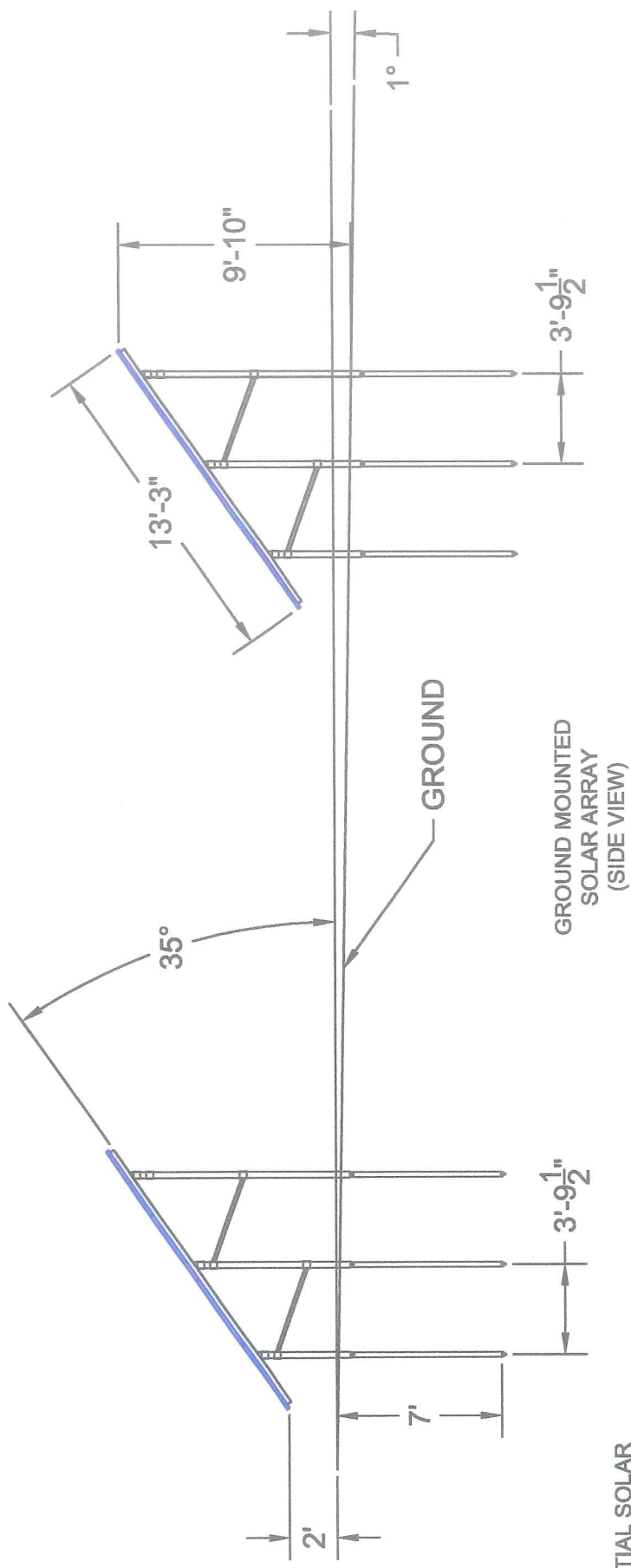
84 MODULES x 320W = 26.9 KW-DC
 EST PROD = 32,885 KWH/YR
 (PV SIM 10% SHADE ASSUMED)

BLUE SELENIUM SOLAR, LLC
 17 JAN SEBASTIAN DRIVE, SUITE 12, SANDWICH, MA 02563
 PHONE (508)833-8500, WWW.BLUESEL.COM

DRAWN BY: OC	DATE: 02-17-17	SCALE: NA	SHEET: 1 OF 3	BORDER: C
NAME: HANNIGAN - 281 GROVE ST.				DWG NUMBER-REV 04096-04

Proprietary and Confidential Information.
 Disclosure without prior consent of
 Blue Selenium Solar, LLC is prohibited.

REVISIONS:		
NO.	DATE	BY
		ECN #



RESIDENTIAL SOLAR
 GROUND MOUNTED
 PHOTOVOLTAIC INSTALLATION:

HANNIGAN, WILLIAM
 281 GROVE ST.,
 WESTWOOD, MA 02090

GROUND MOUNT = 35 DEG TILT
 AZIMUTH = 180 DEG

AVERAGE TSRF = 90% ASSUMED

MODULES:
 LG320N1C-G4

WESTWOOD, MA
 WIND SPEED = 105 MPH
 SNOW LOAD = 40 PSF

RACK:
 SUNMODO CORPORATION
 4 ROWS PER COLUMN IN LANDSCAPE
 AUGER GROUND MOUNTED SYSTEM
 84 MODULES x 320W = 26.9 KW-DC
 EST PROD = 32,885 KWH/YR
 (PV SIM 10% SHADE ASSUMED)

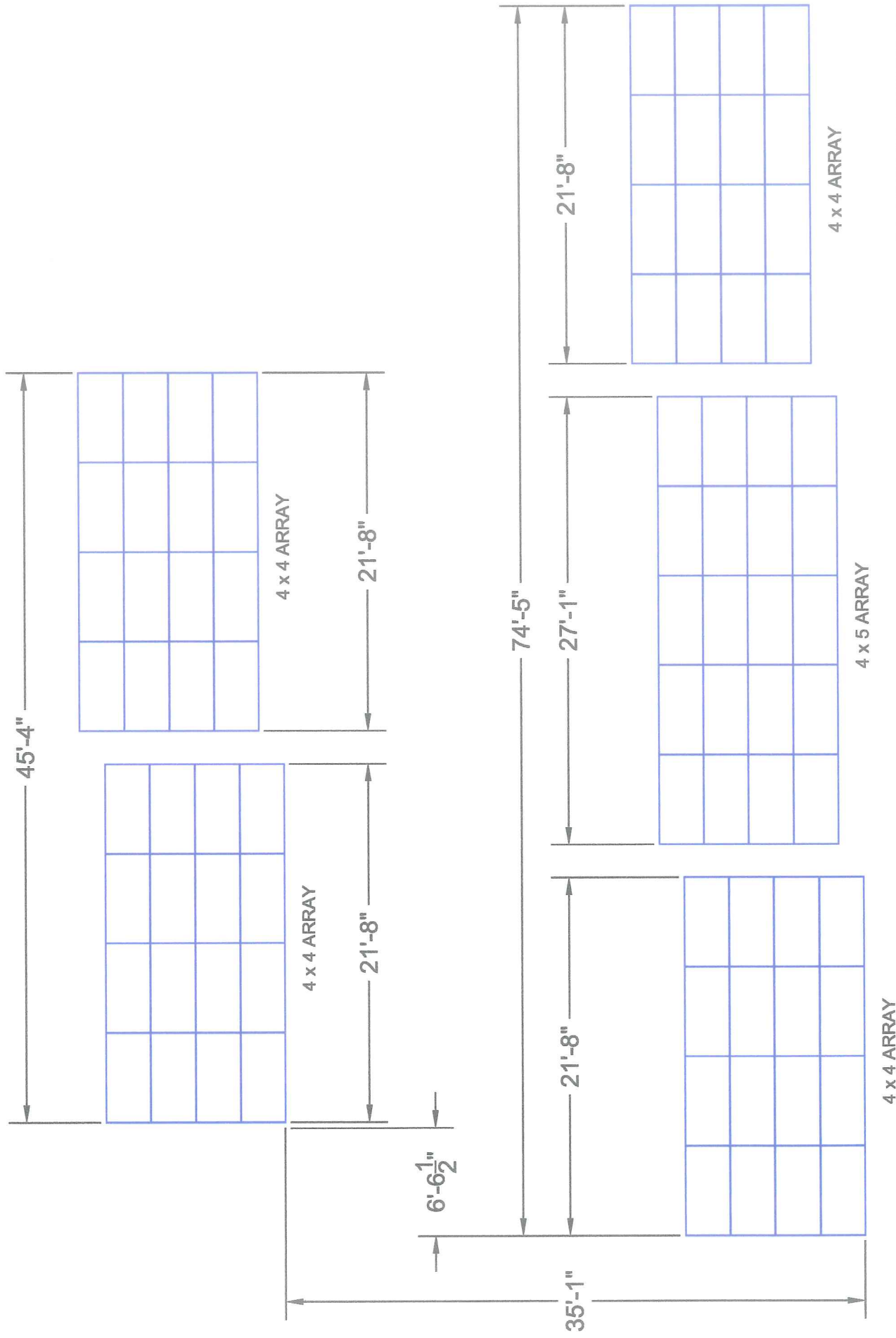
BLUE SELENIUM SOLAR, LLC
 17 JAN SEBASTIAN DRIVE, SUITE 12, SANDWICH, MA 02563
 PHONE (508)833-9500, WWW.BLUESEL.COM

DRAWN BY: OC	DATE: 02-17-17	SCALE: N/A	SHEET: 2 OF 3	BORDER: C
NAME: HANNIGAN - 281 GROVE ST.				DWG NUMBER: REV 04096-04

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REVISIONS:		
NO.	DATE	BY

ECN #



GROUND MOUNTED
SOLAR ARRAY
(TOP VIEW)

BLUE SELENIUM SOLAR, LLC			
17 JAN SEBASTIAN DRIVE, SUITE 12, SANDWICH, MA 02563			
PHONE (508)333-9500, WWW.BLUESEL.COM			
DRAWN BY: OC	DATE: 02-17-17	SCALE: N/A	SHEET: 3 OF 3
NAME: HANNIGAN - 281 GROVE ST.			BORDER: C
DWG NUMBER: REV			04096-04