PAGES 1-16: APPLICATION SUBMISSION

Green Providence Wind I

CITY OF PROVIDENCE ZONING BOARD OF REVIEW

INSPECTION & STANDARDS RECEIVED

FEB 20 2020

and the first the states in the second

APPLICATION FOR VARIANCE OR SPECIAL USE PERMIT

Check Each Type Zoning Relief Sought:

1	
-	Í

Variance – Use * Variance – Dimensional* Special Use Permit **

* Attach Appendix A to apply for a Use or Dimensional Variances **Attach Appendix B to apply for a Special Use Permit

 Applicant:
 Green Providence Wind I, LLC

 Name:
 Mark Depasquale, Manager

 E-mail
 md@green-ri.com

 Phone
 401-295-4998

 Home/Office
 Home/Office

Owner: Provport, Inc.

E-mail wgbesq@aol.com Phone 401-781-4719 Home/Office

Lessee: same as applicant

E-mail _____ Phone:

Home/Office

Address 3760 Quaker Ln. North Kingstown, RI Zip Code 02852

401-580-2060 Mobile (Cell)

Address 35 Terminal Road Providence, RI Zip Code 02903

Mobile (Cell)

Address _____ Zip Code

Mobile (Cell)

Does the proposal require review by any of the following (check each):

- n/a Downtown Design Review Committee
- n/a I-195 Redevelopment District Commission
- n/a Capital Center Commission
- n/a Historic District Commission

1.	Location of Property:	1 Fields Poir	nt Drive (56 Lot 322)
		Street Addres	SS
		W-3	
2.	Zoning District(s):	-	
	Special purpose or overla	y district(s):	no
3a.	Date owner purchased th	e Property:	10/2/2015
3b.	Month/year of lessee's oc	cupancy:	2020 subject to all permits being received

Page 4 of 11



3. Dimensions of each lot:

· · · · ·

Lot # 322	Frontage 220' +/-	_depth <u>212' +/-</u>		sq. ft.
Lot #	Frontage	_ depth	_ Total area	sq. ft.
Lot #	Frontage	_ depth	_ Total area	sq. ft.

4. Size of each structure located on the Property:

	Principal Structure:	Total gross square footage	12,990
	Footprint 12990	Height <u>24'+/-</u>	Floors 1
	Accessory Structure: Tota Footprint		Floors
	Pootprint	Incignt	110013
5.	Size of proposed structure(s): Footprint 1.31ac bl 3650 sf +/- foundation on	Total gross square footage: ade swing area Height 342	Floors n/a
6a.	Existing Lot coverage: (include	all buildings, decks, etc.) 12,990	sf
6b,	Proposed Lot coverage: (includ	e new construction) 1.31 ac (rotat	on of blades) 3650 sf_ foundation only
7a.	Present Use of Property (each l Equipment maintenance bldg. &	ot/structure):	990 sf building to remain
7b.		/structure) as recorded in Dept. nicle maintenance and outisde par	
8.	Proposed Use of Property (eacl .same as existing and (1) wind en		
9.	Number of Current Parking Sp	oaces: No change proposed	
10.	Describe the proposed construct	ction or alterations (each lot/stru	cture):
		located within an existing building	•
11.	Are there outstanding violation <u>n/a</u> Zoning Ordinance <u>n/a</u> RI State Building Co <u>n/a</u> Providence Housing		r any of the following:
12.	List all Sections of the Zoning section:	Ordinance from which relief is	s sought and description of each
	902 90' building	height limitation, structue is 342', v	
		rty line setback required, 0' propos	
	1202-cc-11 376.2 prope	ty line setback required, 125' prop	. (Harborside), variance 251.2' '

1202-cc-09 342' structure setback required, 25' proposed, variance 317'.

Page 5 of 11

Page 2 of 58

13. Explain the changes proposed for the Property.

No changes are propo associated equipment	psed except for the construction of (1) 1.5 MW wind energy system and for electrical interconnection.

The undersigned acknowledge(s) and agree(s) that members of the Zoning Board of Review and its staff may enter upon the exterior of the Property in order to view the Property prior to any hearing on the application.

The undersigned further acknowledge(s) that the statements herein and in any attachments or appendices are true and accurate, and that providing a false statement in this application may be subject to criminal and/or civil penalties as provided by law, including prosecution under the State and Municipal False Claims Acts. Owner(s)/Applicant(s) are jointly responsible with their attorneys for any false statements.

Owner(s):	Applicant(s):
William G. Brody, Sec,	Mark DePasquale
Type Name	Type Name
Signature	Signature
Type Name	Type Name
Signature	Signature

All requirements listed and described in the Instruction Sheet must be met or this application will not be considered complete.

Page 6 of 11



APPENDIX A

APPLICATION FOR VARIANCE(S)

Rhode Island General Laws § 45-24-41(c) requires that the Applicant for a variance demonstrate:

- (1) That the hardship from which the applicant seeks relief is due to the unique characteristics of the subject land or structure and not to the general characteristics of the surrounding area; and is not due to a physical or economic disability of the applicant, excepting those physical disabilities addressed in § 45-24-30(16);
- (2) That the hardship is not the result of any prior action of the applicant and does not result primarily from the desire of the applicant to realize greater financial gain;
- (3) That the granting of the requested variance will not alter the general character of the surrounding area or impair the intent or purpose of the zoning ordinance or the comprehensive plan upon which the ordinance is based;
- (4) That the relief to be granted is the least relief necessary; and
- (5) (a) For a use variance: That the land or structure cannot yield any beneficial use if it is required to conform to the provisions of the zoning ordinance;
 - (b) For a dimensional variance, that the hardship suffered by the owner of the subject property if the dimensional variance is not granted amounts to more than a mere inconvenience.

Please provide the following information:

. . .

1. What is the specific hardship from which the applicant seeks relief? Building height limitation, unique characteristics of the property, and location in I-2 zone adjacent to

W-3 zone where the use is allowed require the dimensional relief requested for the proposed use

2. Specify any and all unique characteristics of the land or structure that cause the hardship?

The required height is necessary to capture the wind regime needed for efficient energy production

without turbulence and not exceed FAA limitations. (a) Is the hardship caused by an economic disability? 3.

- Yes
 No x

 Yes
 No x
 (b) Is the hardship caused by a physical disability?
 - (c) If the response to subsection (b) is "yes," is the physical disability covered by the Americans with Disabilities Act of 1990 (ADA), 42 U.S.C. § 12101 et seq.? Yes ____ No x
- 4. Did the owner/applicant take any prior action with respect to the Property that resulted in the need for the variance requested? (Examples include, but are not limited to, any changes the owner/applicant made to the structure(s), lot lines, or land, or changes in use of the Property)? Yes _____ No X

If "yes," describe any and all such prior action(s), and state the month/year taken.

Page 7 of 11

Page 4 of 58

5. State any and all facts to support your position that the applicant is not seeking the variance(s) primarily in order to obtain greater financial gain.

The applicant is seeking variances to provide renewable energy.

6. State any and all facts that support your position that you are seeking the least relief necessary to lessen or eliminate the hardship (for example, why there are no viable alternatives to your proposed plan).

The tower that is proposed is a specialized design to minimize the height relief needed. FAA limits the height above sea level to no more than elevation 350 MSL.

......

7. If you are seeking a USE VARIANCE, set forth all facts that demonstrate that the Property cannot have any beneficial use if you are required to use it in a manner allowed in the zoning district.

N/A____

ь, г.**.**

8. If you are seeking a DIMENSIONAL VARIANCE, set forth all facts that indicate that if the variance is not granted, the hardship the owner/applicant will suffer is more than a mere inconvenience.

The required height and location is necessary to capture the wind regime needed for efficient energy production without turbulence and to avoid conflicts with existing operational turbines on the Narragansett Bay Commission properties to the north as well as FAA.

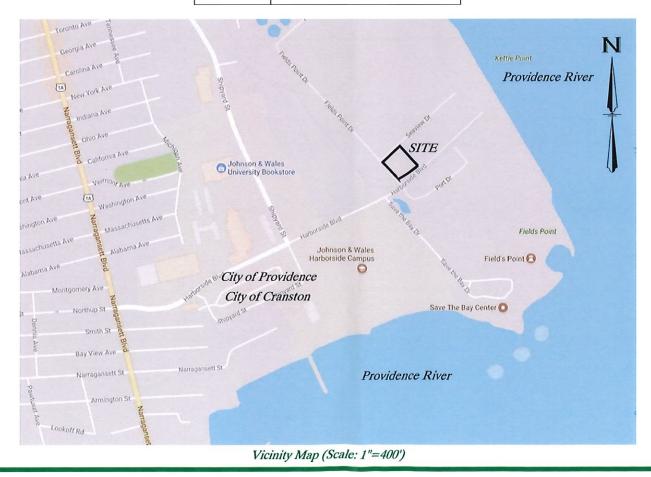
Page 8 of 11

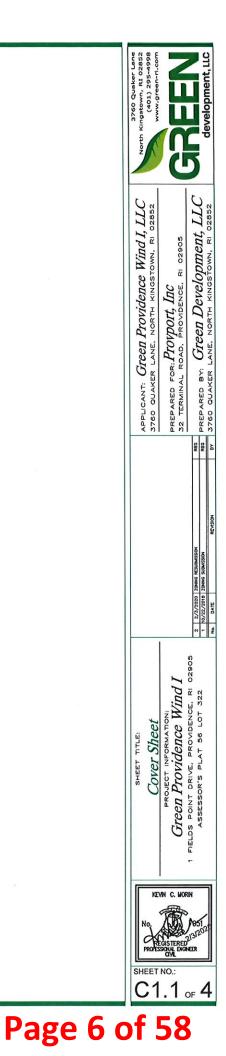
Page 5 of 58

ZONING SUBMISSION Green Providence Wind I 1 Fields Point Drive Providence, Rhode Island 02905 Assessor's Plat 56 Lot 322

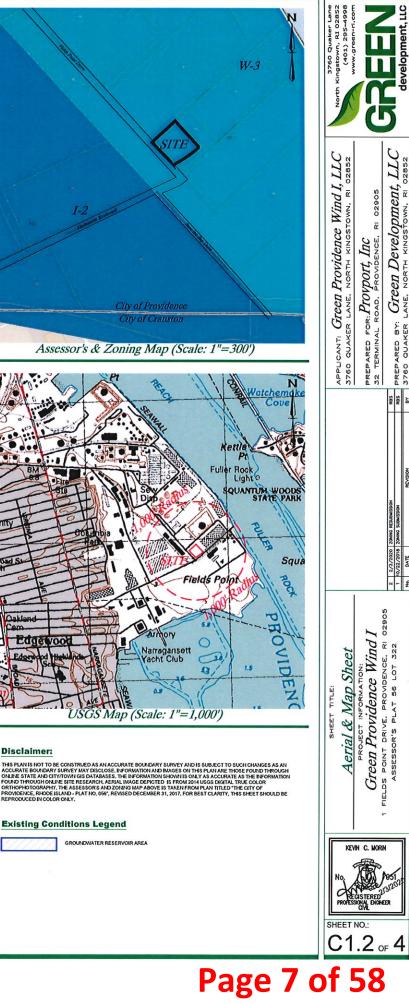
Sheet I	ndex
---------	------

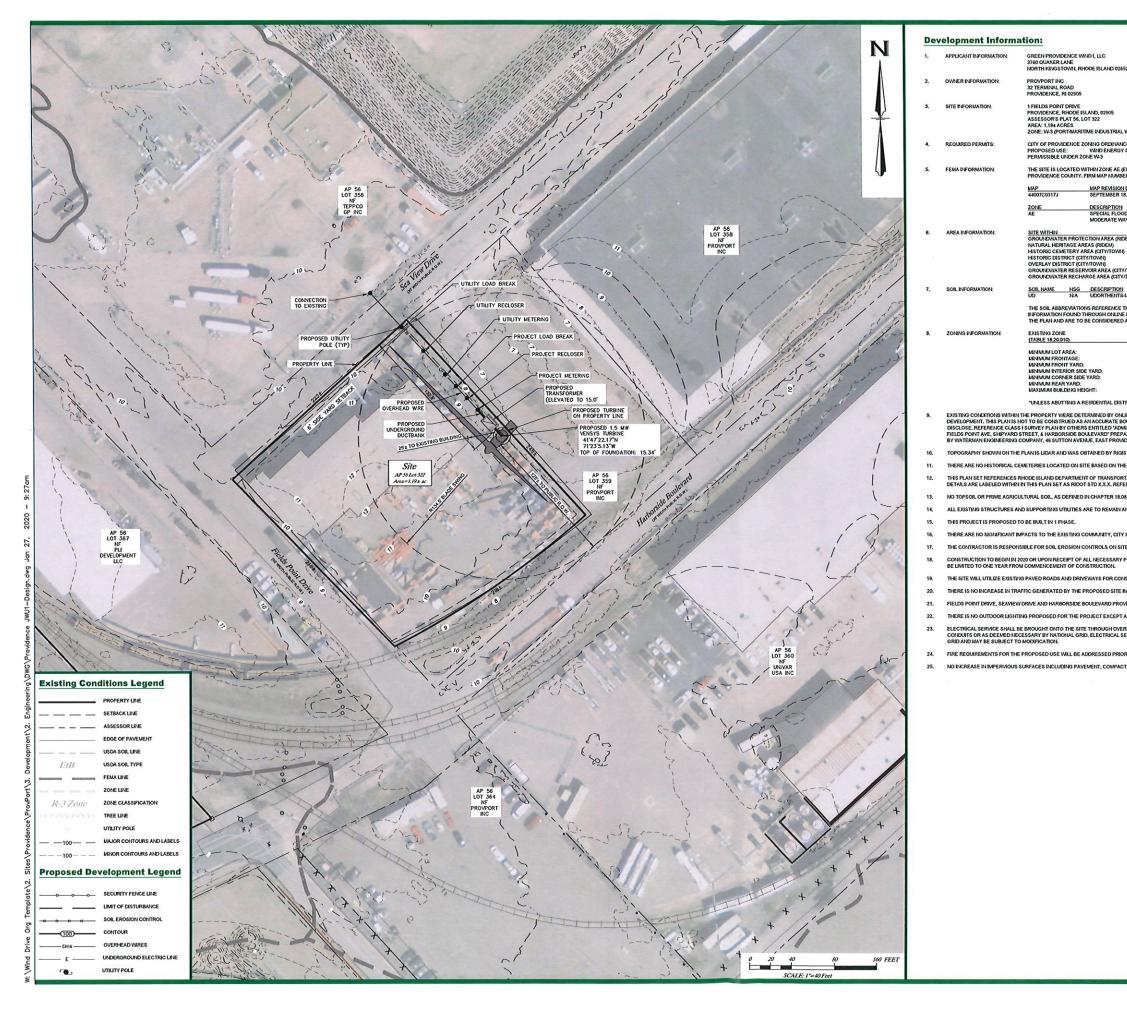
Sheet Number	Sheet Title
C1.1	Cover Sheet
C1.2	Aerial & Map Sheet
C1.3	Site Plan
C1.4	Detail Sheet
1 of 1	Vensys 82 (Wind Turbine Detail)











2852 AL WATERFRONT DISTRICT) NICE TABLE 12-2: USE MATRIX 32' SYSTEM (PRINCPLA USE)	3760 Quaker Lane North Kingstown, RI 02852 (401) 295-4998		development. LLC
E REAV. 13 AS DELINEATED ON THE FLOOD INSURANCE RATE MAP FIRMS FOR THE CITY OF PROVIDENCE, REARS, REVISION DATES AND ZONE DESCRIPTIONS ARE AS FOLLOW. MILDITE BERS, REVISION DATES AND ZONE DESCRIPTIONS ARE AS FOLLOW. MILDITE DOI HUJARD AREAS BURRANTED BY 100-YEAR FLOOD BASE FLOOD ELEVATION (ELEV.12 WITHIN LIMIT OF WAVE ACTION MO AD AD AD AD AD AD AD AD AD AD	APPLICANT: Green Providence Wind I, LLC 3760 QUAKER LANE, NORTH KINGSTOWN. RI 02852	prepared for: <i>Ptovpoit, Inc</i> 32 terminal road, providence. Ri 02905	
TA SERGURED BY FAA. REINED UTLITY POLES AND TRANSITION TO URDERGROUND DUCTBUNK WITH TWO (2) 4 BK-H UNDERGROUND SERVICES ARE BOWN SCHEMATICULLY AND DETAILED DESIGN SMULL BE COORDINATED WITH INFORM. XOR TO OBTAINING A BUILDING PERMIT. INCITED GRAVEL OR STRUCTURES ARE PROPOSED.	Site Plan	Green Providence Wind I	ASSESSOR'S PLAT 56 LOT 322

Page 8 of 58

SHEET NO .:

C1.3 of 4

Wind Energy System (Principal Use)

Win	d Energy System (Principal Use)	-
(SECT)	ON 1202 - PRINCIPAL USE STANDARDS)	Ere Pe
1.	THE DESIGN OF THE WIND ENERGY SYSTEM SHALL CONFORM TO APPLICABLE INDUSTRY STANDARDS AS SUCH STANDARDS EXIST AS OF THE DATE CONSTRUCTIONIS COMMENCED. THE FACILITY OWNER OR OPERATOR SWILL SUBMIT CERTIFICATES OF DESIGN COMPLIANCE OF DIADED BY THE EQUIPMENT MULTIFACTURERS FROM UNDERWRITERS LABORATORIES, DET NORSKE VERITAS, GERMANSHCER LLOTD WIND DERRORES, OR SILLAR CERTIFICING ORGANIZATIONS.	EST/
2.	ALL WIND TURBINES SHALL BE NEWLY MANUFACTURED AS OF THE DATE OF INSTALLATION. EXPERIMENTALIFROTOTYPE WHO TURBINES MAY DE APPROVED AS A SPECIAL USE, (MND TURBINES BENNO USED FOR THIS FROCCET ARE IND TEXPENJENTIAL PROTOTYPE)	2. /
3.	ALL WIND ENERGY SYSTEMS SHALL BE EQUIPPED WITH A REDUNDANT BRAKING SYSTEM. TH'S INCLUDES BOTH AERODYNAWIC OVER-SPEED CONTROLS INCLUDION VARUALE PITCH, TR, AND OTHER SIMULAR SYSTEMS) AND MECHANICAL BRAKES. MECHANICAL BRAKES SHALL BE OPERATED IN A FAL-SAFE MODE. STALL REGULATION IS NOT CONSIDERED A SUFFICIENT BRAKING SYSTEM FOR OVER-SPEED PROTECTION.	3. 1
4	ALL ELECTRICAL COMPONENTS OF THE WIND ENERGY SYSTEM SHALL CONFORM TO APPLICABLE LOCAL, STATE, AND NATIONAL CODES, AND APPLICABLE INTERNATIONAL STANDARDS,	4. 1
5.	AN ENGINEERS CERTIFICATE SHALL BE CONFLETED BY A STRUCTURAL ENGINEER, LICENSED IN THE STATE OF RHODE ISLAND, CERTIFINIA THAT THE TOWER AND FOUNDATION OF THE WIND TURBINES ARE COMPARILE WITH AND ARE APPORTATE FOR THE PARTICULAR MODEL OF WIND TURBINE USED, AND THAT THE SPECIFIC SOILS AT THE SITE CAN SUPPORT THE WIND TURBINE.	
6. 6.a.	WND TURBINES SHALL COMPLY WITH THE FOLLOWING DESIGN STANDARDS: WND TURBINES SHALL BE A NONOBITUSINE AND NONFERLECTIVE COLOR. THE FACILITY OWNER OR OPERATOR SHALL MANTIAN THE PANT ON WIND TURBINES SAT ALL TURES IN GOOD REPAR.	5.
6.b.	WIND TURBINES SHALL NOT DISPLAY ADVERTISING, EXCEPT FOR REASONABLE IDENTIFICATION OF THE TURBINE MANUFACTURER, OR THE FACILITY OWNER AND OPERATOR.	
6.c.	WITHIN THE WIND ENERGY SYSTEM, WIND TURBINES SHALL BE OF A GENERALLY CONSISTENT SIZE, DESIGH, AND COLOR, OF SIMLAR HEIGHT AND ROTOR DIAVETER, AND ROTATE IN THE SAME DIRECTION.	6.
6.d. 6.e.	WIND TURBINES SHALL NOT BE ARTHFICIALLY UT, EXCEPT TO THE EXTERT REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION OR OTHER APPLICABLE REGULATORY AUTHORITIES. ON-SITE TRANSMISSION AND POWER LINES BETWEEN WIND TURBINES SHALL, TO THE MAXIMUM	7.
	EXTENT PRACTICABLE, BE PLACED UNDERGROUND, REACH THE PROPERTY LINE, AND BE LOCATED AND CONSTRUCTED IN SUCH A WAY AS TO IMPINIZE USRUPTION TO THE PROPERTYS PRIMARY PURPOSE AS WELL AS TO FACILITATE THE INTERCONNECTION OF OTHER COMMERCIAL WIND POWER	
6 <i>J</i> .	GENERATING FACILITIES. NONESSENTIAL APPURTENANCES ARE PROHIBITED TO BE AFFIXED TO ANY WIND TURBINE, INCLUDING, BUT NOT UNITED TO. CELLULAR OR RADIO ANTENNAE.	8.
6.g.	A CLEARLY VISIBLE WARNING SIGN ADJUSING PERSONS OF THE PRESENCE OF HIGH VOLTAGE LEVELS SHALL BE PLACED AT THE BASE OF ALL PAD-MOUNTED TRANSFORMERS AND SUBSTATIONS.	9.
7.	THE APPLICANT SHALL COMMISSION AND SUBMIT AT THE TIVE OF PERMIT APPLICATION A WILDLIFE ASSESSMENT (WRACT STUDY), CONDUCTED BY A QUILIFED WILDLIFE EXPERT HAVING NO LESS THAN TEN VERIS OF EXPERIENCE CONSULTION WILDLIFE ASSESSMENTS, INSUCATING YOSSIER ERISKS TO LOCAL WILDLIFE, HUBITAT, AND MIGRATORY BINDS, ADDITIONALLY, THE APPLICANTS WILDLIFE EXPERT SHALL ALSO DEVELOP A MITIGATION PHAN IF APPLICANTE, THAT ADDRESSES MITIGATES ANY RISK TO WILDLIFE.	
	MGRATORY BIRDS, AND AFFILIATED HABITAT. ALL WIND TURBINES AT TIME OF APPLICATION SHALL BE LOCATED OUT OF BIRD AND BAT MORATION PATH/MYS/CORRIDORS WHERE WIND TURBINE CONSTRUCTION WOLD POSE A SUBSTATIAL RISK.	10.
8.	WND TURBINES SHULL NOT BE CUMBABLE UP TO A HEXHT OF AT LEAST 15 FEET ABOVE GROUND SURFACE, JLL ACCESS DOORS TO WND TURBINES AND ELECTRICAL EQUIPMENT SHULL BE LOCKED OR FEINCED, AS APPROPRIATE, TO PREVENT ENTRY BY NON-AUTHORIZED PERSONS. (SEE ATTACHED)	
9.	WND TURBINES SHALL BE SET BACK FROM ALL STRUCTURES ON A PARTICIPATING PROPERTY OWNERS IS PROPERTY A DISTANCE OF NO LESS THAN THE WIND ENERGY SYSTEM HEIGHT. THE SETBACK DISTANCE MEASURED FROM THE INERGEST FORMT ON THE OUTSIDE EDGE OF A TOWER TO THE NERGEST FORMT ON E	12.
	THE FOUNDATION OF THE OCCUPIED BUILDING.	13.
	WND TURBINE HEIGHT = 342 NEAREST STRUCTURE FOUNDATION = 25 VARUACE REQUESTED = 342 - 25 = 317	13.
10.	ALL WAND TURBILE'S SHALL BE SET BACK FROM THE NEAREST PROPERTY LINE A DISTANCE OF NOT LESS THAN THE NORMAL SETBACK REQURRENTS FOR THAT ZOWNA DISTRICT OR 110 PERCENT OF THE WIND ENERGY SYSTEM HEIGHT, WHO'EVERS IS GREATER. THE SETBACK DISTRICT OR 110 PERCENT OF THE WIND PROPERTY LINE TO THE NEAREST POINT ON THE OUTSIDE EDGE OF A TOWER, OPERATION AND MAINTENAVICE BUILDINGS) AND SUBSTATIONS SHALL BE LOCATED IN ACCORDANCE WITH ZOWNG DISTRICT YARD REQURRENENTS. ALL WIND FARM STRUCTURES, EXCEPT FOR WIND TURBINES, HALL	15.
	COMPLY WITH THE REGULATIONS OF THE ZONING DISTRICT. (A VARIANCE IS REQUIRED) WIND TURBINE HEIGHT = 342' REQUIRED PROPERTY LINE = 50 (MIDER COMMON OWERSHP) HEAREST PROPERTY LINE = 0 (MIDER COMMON OWERSHP)	16.
11.	VARUNCE REQUESTED = 378.2 - 0" = 376.2 ALL WND TURBRES SHULL BE SET BACK FROM THE NEAREST FUBLIC RIGHT-OF-WAY A DISTANCE OF 110 PERCENT OF THE WND EXERCITY SYSTEM HEIGHT, AS MEASURED FROM THE RIGHT-OF-WAY LINE TO THE	17.
	NEAREST POINT ON THE OUTSIDE EDGE OF A TOWER, (A VARIANCE IS REQUIRED)	<u>STR</u> 18.
	REQUIRED PROPERTY LIKE SETBACK = 342 X 110% = 376.2 NEAREST PUBLIC R.O.W. LIKE = 135 VARUNCE REQUESTED = 376.2 - 125 = 251.2 THE FACILITY OWNER OR OPERATOR SHALL COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES	19.
12.	REGULATING SOUND GENERATION, IN THE EVENT THAT ANY SOUND LEVELS FROM A WHOT TURBUE ARE FOUND TO BE INECCESS OF PERMISSIBLE LEVELS, THE FACLUTY OWNER OR OPERATOR SHALL TAKE NECESSARY MEASURES TO BRING SOUND LEVELS DOWN TO A LEVEL ACCEPTABLE.	20.
13.	WND TURBINE SHADOW FLICKER SHALL NOT EXCEED 30 HOURS PER YEAR ON ANY MINDOW OF AN EXISTING RESIDENTIAL STRUCTURE LOCATED ON A PARCEL OWNED BY AN ENTITY OTHER THAN THE PARCEL OWNER WHERE THE TURBINE IS LOCATED.	MAI
14.	THE FACILITY OWNER AND OPERATOR SHALL, AT THEIR SOLE EXPENSE, COMPLETE DECOMMISSIONING OF THE WIND ENERGY SYSTEM, OR INDIVIDUAL WIND TURBINES, MITHIN ONE YEAR AFTER THE END OF THE	21.
	USEFUL LIFE OF THE WIND EXERCY SYSTEM OR NOMOKUL, WIND TURBINES, THE WIND EXERCY SYSTEM OR TURBINES WALLE BE CERENCE TO BE AT THE BIO OF ITS USEFUL LIFE IT ITS JABNOSILE OF AR A PERIOD OF THUE IN EXCESS OF IND DAYS, DECOMMISSIONING INCLUDES REMOVAL OF WIND TURBINES, STRUCTIRES, ROADS MAID FOUNDATIONS TO A DEPITIOF 48 INVESS, AND MAY OTHER ELEMENT CONSTRUCTED BY FACULTY OWNER OR OPERATOR FOR THE PURPOSE OF MARITAINING OR OPERATING THE WIND DERROY SYSTEM.	22.
15.	WIND ENERGY SYSTEMS ARE PERMITTED IN THE 1-2 ZONE BY SPECIAL USE PERMIT, PROVIDED THE PARCEL ABUTS A W-3 ZONE AND WIND ENERGY SYSTEM IS NOT LESS THAN 1,000 FEET FROM A RESIDENTIAL ZONE.	
S	bil Erosion and Sediment Control Notes:	
1.	ALL DISTING UTILITIES SHOWN ARE FROM VISIBLE INFORMATION, DRAWINGS FROM OTHERS, RIGIS DATA, SURVEYED INFORMATION HADDRE INFORMATION PROVIDED TO GENER DREVELOPHENT ADD IS SUBJECT TO CHAUGE AND ARE TO BE CONSIDERED APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE TO CONTACT THE REPORTER UTILITY ENDREVERING DEPARTMENTS AND AND COMPAVES TO LOCATE ALL EXISTING SUBSURFACE UTILITIES AND STRUCTURES IN AND AROUND THE LIMIT OF DISTURBANCE.	23.
2.	CONTRACTOR TO CALL THE DIG SAFE CENTER TOLL FREE AT 1-888-344-7233, 72 HOURS PRIOR TO ANY EXCANATON WORK TAKES PLACE. CONTRACTOR TO NOTIFY THE DESIGNE BORNEER OF ANY DISCREPANCES FOUND DURING UTITY RESEARCHFRORT OF EXCANATION. ANY DANAGE TO ANY ESITING UTILITIES WHICH ARE SHOWN AND NOT SHOWNON THE FLANS OR DETAILED BY DIG SAFE SHULL BE THE RESPONSIBILITY OF THE SITE CONTINUCTOR.	24. Se
3.	CONTRACTOR IS LABLE TO OBTAIN ALL MUNICIPAL, STATE AND FEDERAL APPROVALS AND PERMITS PRIOR TO THE START OF CONSTRUCTION.	Di
4.	DALY SWEEPING AT CONSTRUCTION ENTRANCE DURING CONSTRUCTION IS REQURED TO MINIMZE SECUMENTS ON BUTTOMNOODS ROAD, THE CONTRACTOR SHALL PROVIDE STORAGE FOR WATER AS NECESSARY TO ENSURE PROPER DUST CONTROL.	1. 2.
5.	CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING (RAD) OF ALL MATERIALS LEGALLY AS INDICATED ON THE PLANS TO AN APPROVED OFF-SITE LOCATION.	3.
6.	CONTRACTOR'S STOCKPILE AND STAGING AREAS WITHIN THE LIMIT OF DISTURBANCE SHALL BE RESTORED TO MATCH PRIOR CONDITIONS OR PROPOSED CONDITIONS SHOWN ON THE PLANS.	4.
7.	TH& PLAN SET REFERENCES RHODE ISLAND DEPARTMENT OF TRANSPORTATION (RIDOT) STANDARD DETAILS WHCH CAN BE FOUND ON THE RIDOT ONLINE DATABASE. DESIGNATED DETAILS ARE LABELED WITHIN IN THIS PLAN SET AS RIDOT STD XXX.	5, 6.
8.	REFERENCE LINK: HTTP://WWW.DOT.RI.GOV.DOCUVENTS.DOR/GBUSINESS.RIDOT_STD_DETAILS.PDF NO TOPSOIL OR PRIME AGRICULTURAL SOIL SHALL BE REMOVED FROM THE SITE FOR INSTALLATION OF THE FACILITY.	8. 9

THIS PROJECT IS PROPOSED TO BE BUILT IN 1 PHASE

rosion and Sedimentation Control Measures, ermanent Stabilization, and Maintenance TABLISHMENT OF VEGETATIVE COVER

SLOPES SHALL NOT BE LEFT URATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON. THE CONTRACTOR SHALL JURTATE APROPRIATE VEGETATIVE PRACTICES ON ALL DISTURED ADREAS AS SOON AS POSSIBLE BUTINOT MORE THAVIFOURTEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT RAEA HAS TEMPORARILY OR PERIMAVENTLY CASESO, URLESS THE CONTINYT IN THAT RAEA HAS TEMPORARILY OR PERIMAVENTLY CASESO, URLESS THE CONTINYT IN TO RESUME WITHIN TWENT-ORE (21) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERIMAVENTLY CASESO, URLESS THE CONTINYT IN TO RESUME WITHIN TWENT-ORE (21) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERIMAVENTLY CASESO, URLESS THE CONTINYT IN THAT AREA HAS AND TEMPORARILY OR ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED OR PROTECTED.

THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STOKES, ROOTS, LUMPS OF SOIL, TREE LINES, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH RHOOE ISLAND'S STANDARD SPECIFICATION, M.20.

TYPE	LBS/AC
WINTER RYE	100
MILLET OR SUDANGRASS	40
ANNUAL OR PERENNIAL RYE GRASS	60

TEMPORARY TREATMENTS SHALL CONSIST OF HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR RIBER LIPIND. TEMPORARY HAY MULCH TO BE TACKED IN PLACE WITHINTON URSHIRETITIDS, SIGDES OF BASINS SHALL BE INTERATED WITHORTH AMERICAN GREEN EROSION CONTROL BLAVESTS SUCH AS 5150 OR APPROVED EQUAL. THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEE/ HAY OR STRAW APPLICATIONS SHALL BE IN THE AMOUNT OF 2 TONS/ACRE.

ALL STRAW WATTLE OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED. ALL FILL SHALL BE THOROUGH, Y COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH LOCAL MANCIPAL REQUIREMENTS AND THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE SECTION 202.

STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDED AND/OR STABILIZED.

ALL AREAS PROPOSED TO BE VEGETATED THAT ARE DISTURBED BY CONSTRUCTION SHALL BE THE BEDD UMN PERMUNET, RECEIVE JUNET, MET YOU DOUD IT WARN NOW THE AND THE AND

MAXIMUM PERMANENT GRADED SLOPE WITHIN THE SITE IS TO BE 3.1 UNLESS NOTED OTHERWISE

. THE CONSTRUCTION SUPERNITENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION AND FOR SEEING THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN. THE CONTINCTOR MUST REPAR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PRODO FOR USE YEAR AND SHALL DO SO AT NO ADDITIONAL DO NOT DEVELOP WITHIN EXPENSE TO THE OWNER

REFERENCE THE 'RHODE ISLAND SOIL EROSION AND SEDMENTATION CONTROL HANDBOOK' PREPARED BY THE USDA SOIL CONSERVATION SERVICE 1989 AS A GUIDE.

N-STRUCTURAL MEASURES

CONSTRUCTION TRAFFIC SHALL BE LIMITED TO THE ACCESS ROAD AND AREAS TO BE GRADED.

. TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. STOCKPILE LOCATION SHALL BE SUBJECT TO APPROVAL BY THE PROJECT ENSINEER. A SECIMENT BARRER SHALL SURROWND ALL TOPSOIL STOCKPILES.

ALL TYPES OF WASTE GENERATED AT THE SITE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH STATE LAW AND TOWN OF PROVIDENCE REGULATIONS. CONSTRUCTION DEBRIS SHALL BE DISPOSED OF DALLY TO AVOID EXPOSURE TO PRECIPITATION.

THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION OF NON-STRUCTURAL MEASURES AND FOR SEENS THAT THE APPROPRIATE WORKERS ARE WARE OF THE PROVISIONS OF THE PLAN.

REFERENCE THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE USDA SOIL CONSERVATION SERVICE 1989, AS A GUIDE,

RUCTURAL MEASURES

WATTLE OR SILT FENCE SHALL BE INSTALLED DOWNSTREAM OUTSIDE THE LIVITS OF ANY SED CONSTRUCTION AS SHOWN ON THE SITE PLANS AND PRIOR TO THE COMMENCEMENT

THE CONSTRUCTION SUPERINTENDENT SHALL HAVE THE OVERALL RESPONSIBILITY FOR STRUCTURAL DESCREE INFLEMENTATION AND FOR SEEING THAT THE APPROPRIATE WORKERS ARE AVARAGE OF THE PROVISIONS OF THE FLAN.

REFERENCE THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE USDS SOIL CONSERVATION SERVICE 1989, AS A GUIDE.

AINTENANCE: SHORT TERM / LONG TERM

SEDIMENTS TRACKED SPILLED ON EXISTING IMPERVIOUS AREAS ON SITE SHALL BE SWEPT DAILY.

ALL STRAW WATTLE/SILT FENCE, TEMPORARY TREATMENTS (HAY, STRAW, ETC.), AND 2. ALL STRAW WATTLESKT FENCE. TEMPORARY TREATMENTS (MY, STRAW, ETC), MD TEMPORARY PROTECTION SHALL BE MANNARE OB THE CONTRACTOR THROUGHOUT CONSTRUCTION. STRAW WATTLESKT FENCE SHALL BE INSPECTED BY THE CONTRACTOR WITHIN 21HOURS AFTER EACH STORM VEWT OR EVENT TO TAX'S, MHCHARCTOR THROUGHOUT UNDERMINING AND DE TERIORATION. A STORM EVENT SHALL BE DEFINED AS 0.25 INCHES OF RAIN WITHIN 2.4 HOURS AFTER ACH STORM WATTLESKT FENCE SHALL BE REPARED OR REPLACED ORIGINAL EDUCING THE STRAW WATTLESKT FENCE SHALL BE REPARED OR REPLACED ORIGINAL EDUCING THE STRAW WATTLESKT FENCE SHALL BE REPARED OR REPLACED ORIGINAL EDUCING THE STRAW WATTLESKT FENCE SHALL BE REPARED STRAWT. THE AFFORMED GROUPD COVER IS STRAUMANTLESKT FENCE SHALL BE REPARED STRAWT. AFFORMED GROUPD COVER IS STRAUMANTLESKT FENCE SHALL STRAWT OR CRASS OR AFFORMED GROUPD COVER HAS BEEN ESTABLISHED THE STRAW WATTLESKT. FENCE SHALL SENT FENCE SHALL STRAUE STRAWT OR CRASS OR AFFORMED GROUPD COVER HAS BEEN ESTABLISHED THE STRAWT WATTLESKT. THE AT AN ACCEPTABLE STRAWT OR CRASS OR AFFORMED GROUPD COVER HAS BEEN ESTABLISHED THE STRAWT WATTLESKT. FENCE SHALL BE STRAWT.

I. THE CONTRACTOR SHALL MAINTAIN ALL TOPSOIL STOCKPILES AND SEDIMENT BARRIERS THROUGHOUT CONSTRUCTION. EXTREME CARE SHALL BE TAKEN TO ENSURE THAT SEDIMENTS DO NOT SPILL OVER THE SECIMENT BARRIER. STRAW WATTLE OR SILT FENCE SHALL BE STAKED AROUND THE STOCKPILES.

L THE CONSTRUCTION SUPERVITENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR THE MANTERNANCE PROGRAM DURING THE CONSTRUCTION PHASE AND FOR A PERIOD OF ONE YEAR AFTER CONSTRUCTION. THE SUPERVITENDENT SHALL SEE THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN.

equence of Construction and Staging of Land isturbing Activities

CONTRACTOR IS RESPONSIBLE FOR SOIL EROSION AND SEDIMENT CONTROL (SE & SC) ONSITE. SEQUENCE OF CONSTRUCTION PROVIDED MAY BE MODIFIED AS FIELD CONDITIONS WARRANT WITH PRIOR APPROVAL FROM THE OWNER OR OWNER'S REPRESENTATIVE.

CONSTRUCTION TO BEGIN IN 2020 OR UPON RECEIPT OF ALL NECESSARY APPROVALS. SURVEY AND STAKE LIMIT OF SEDIMENTATION BARRIERS LIMIT OF DISTURBANCE.

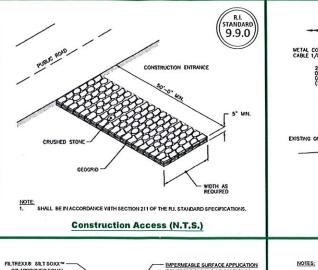
PLACE SEDIMENTATION BARRIERS (STRAW WATTLE OR SILT FENCE) AS SHOWN ON THE PLANS AND STAXED OUT IN THE FIELD. IN NO CASE IS THE LIMIT OF WORK TO EXTEND BEYOND THE

EXCAVATE AND INSTALL THE PROPOSED MONOPOLE FOOTING AND FOUNDATION, GEOTECHNICAL AND STRUCTURAL ENGINEERING SERVICES FOR THE FOUNDATION SYSTEM FOR THE TURBINE ARE TO BE PROVIDED BY OTHERS PRIOR TO CONSTRUCTION.

INSTALL UNDERGROUND UTILITIES AND BACKFILL FOUNDATION.

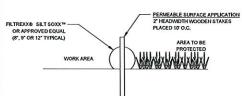
CONSTRUCT THE PROPOSED MONOPOLE AND BLADES AND RELATED ABOVE-GROUND ELECTRICAL EQUIPMENT.

FINISH PERMANENT STABILIZATION AS REQUIRED. THE CONTRACTOR SHALL CLEAN AND FLUSH THE DRAINAGE STRUCTURES AS NEEDED.



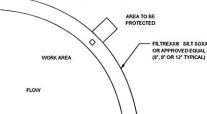


Impermeable Surface Application Section View



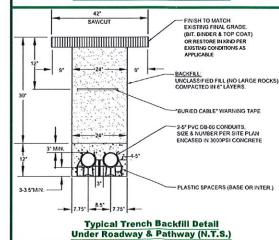
Permeable Surface Application Section View

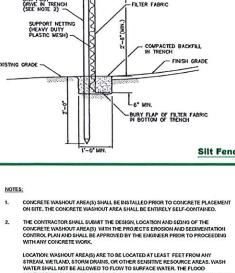
IMPERMEABLE SURFACE APPLICATION CONCRETE BLOCKS OR SAND BAGS SIZED AS PLACED 10 O.C. PERMEABLE SURFACE APPLICATION 2" HEAD/MOTH WOODEN STAKES PLACED 10" O.C.



- **Plan View** RACTOR TO USE FILTREXXØ SILT SOXX™ OR APPROVED EQUAL
- ALL MATERIAL TO MEET FILTREDX® SPECIFICATIONS. SILT SOXTTM FILL TO MEET APPLICATION REQUIREMENTS. FILTER MEDIA TO BE DISFERSED ON SITE, AS DETERMINE OB ENXINEER. SEE PLANS FOR LOCATION AND SUFFACE APPLICATION TYPE. TO BE INCOMPORTED AS NECESSARY.

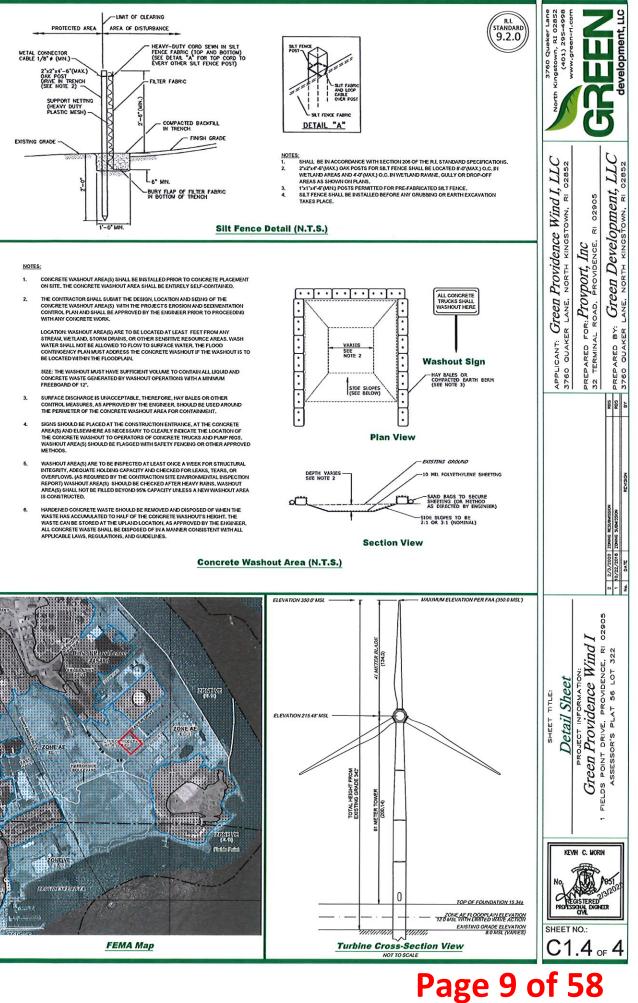
Silt Soxx Sediment Barrier (N.T.S.)

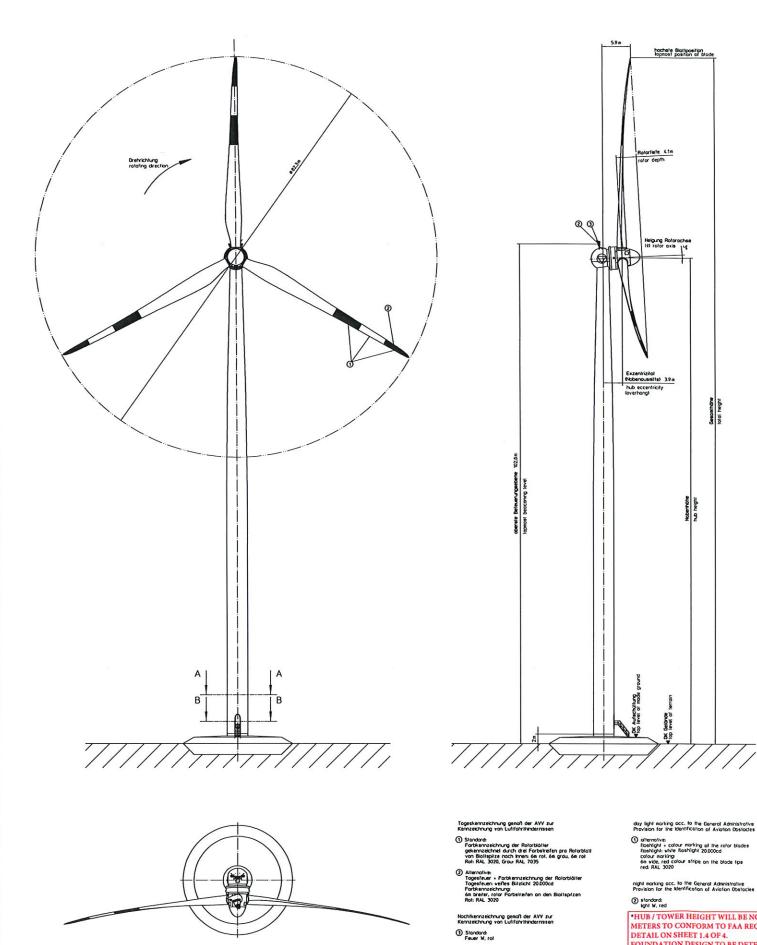




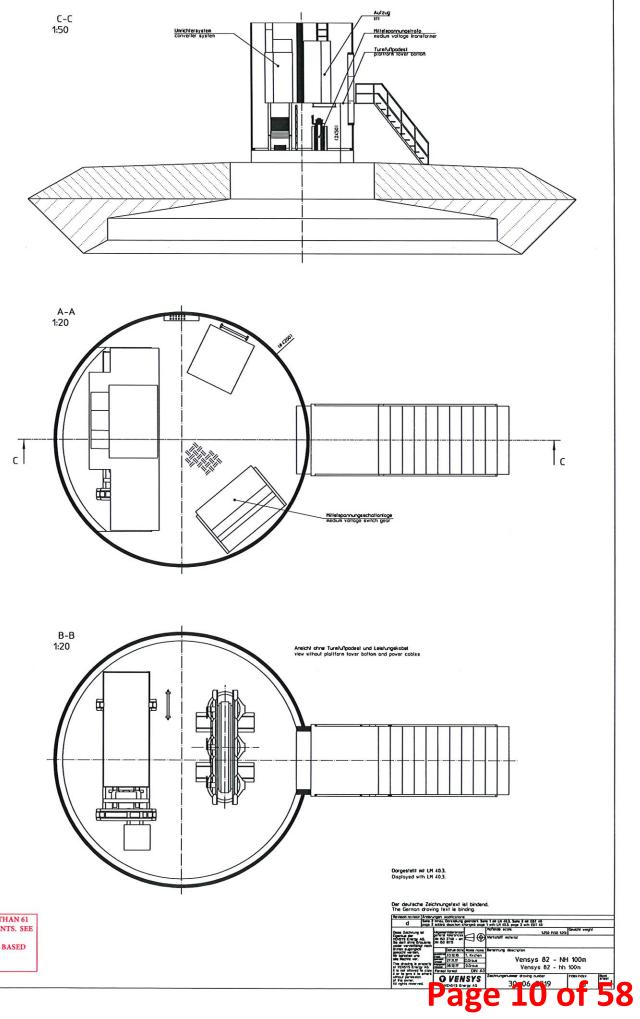
SIZE: THE WASHOUT MUST HAVE SUFFICIENT VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS WITH A MINIMUM

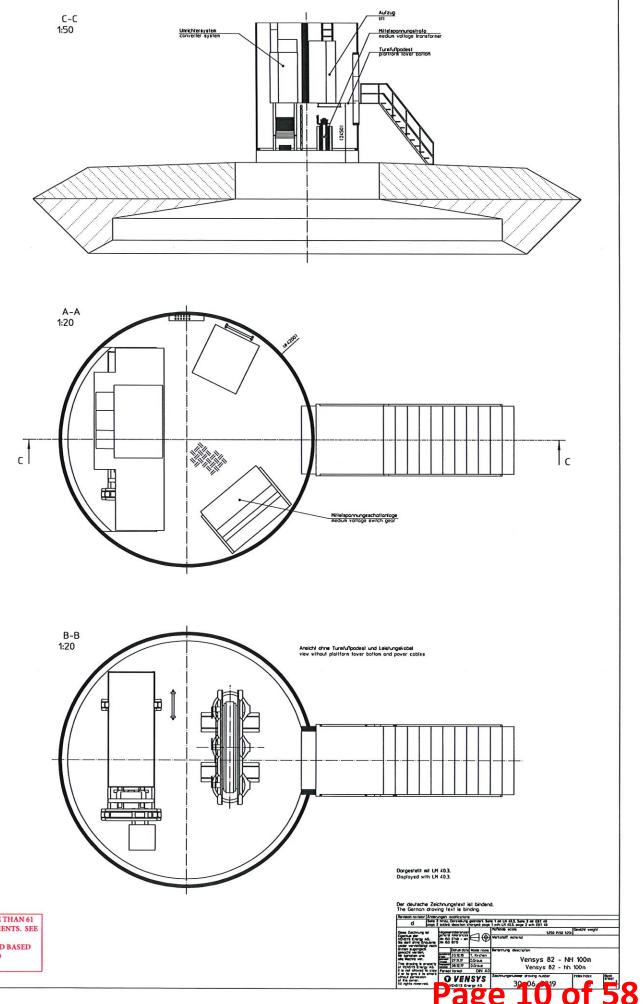
- AREA(S) AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS, WASHOUT AREA(S) SHOULD BE FLAGGED WITH SAFETY FENCING OR OTHER APPROV
- EPORTI WASHOUT AREA/S) SHOULD BE CHECKED AFTER HEAVY RAINS, WASHOUT

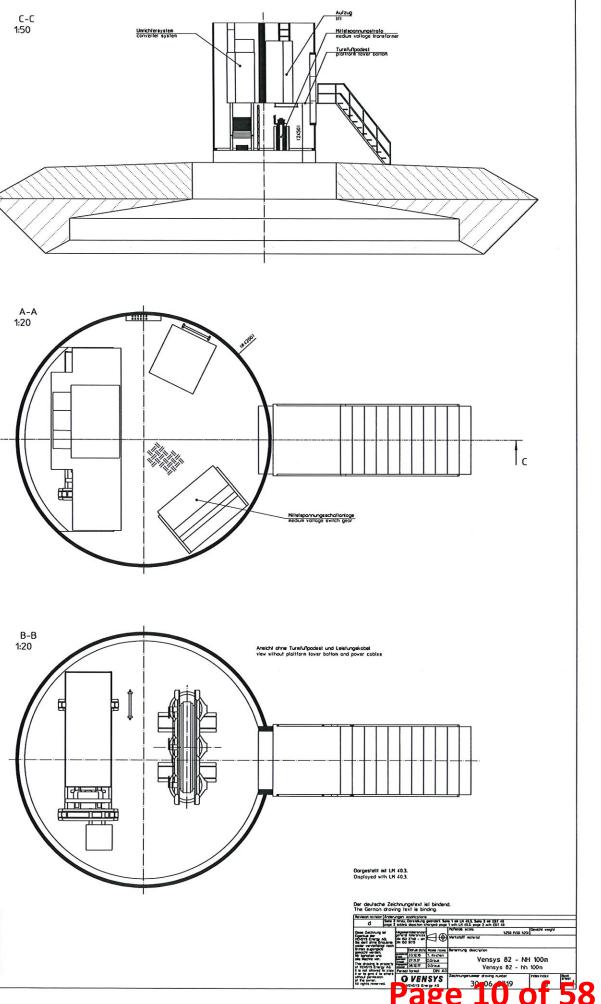




• .







night marking acc. to the General Administrative Provision for the Identification of Aviation Obstacles

HOW W. RED HUB / TOWER HEIGHT WILL BE NO MORE THAN 61 METERS TO CONFORM TO FAA REQUIREMENTS. SEE DETAIL ON SHEET 1.4 OF 4. FOUNDATION DESIGN TO BE DETERMINED BASED ON GEOTECHINCAL INVESTIGATION AND STRUCTURAL ENGINEERING DESIGN



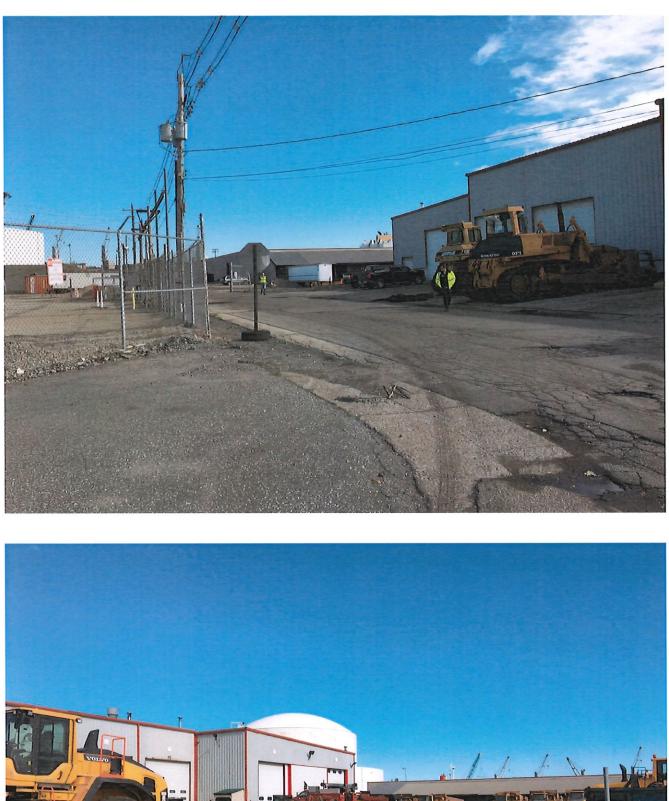


Page 11 of 58



l





1:

Page 13 of 58

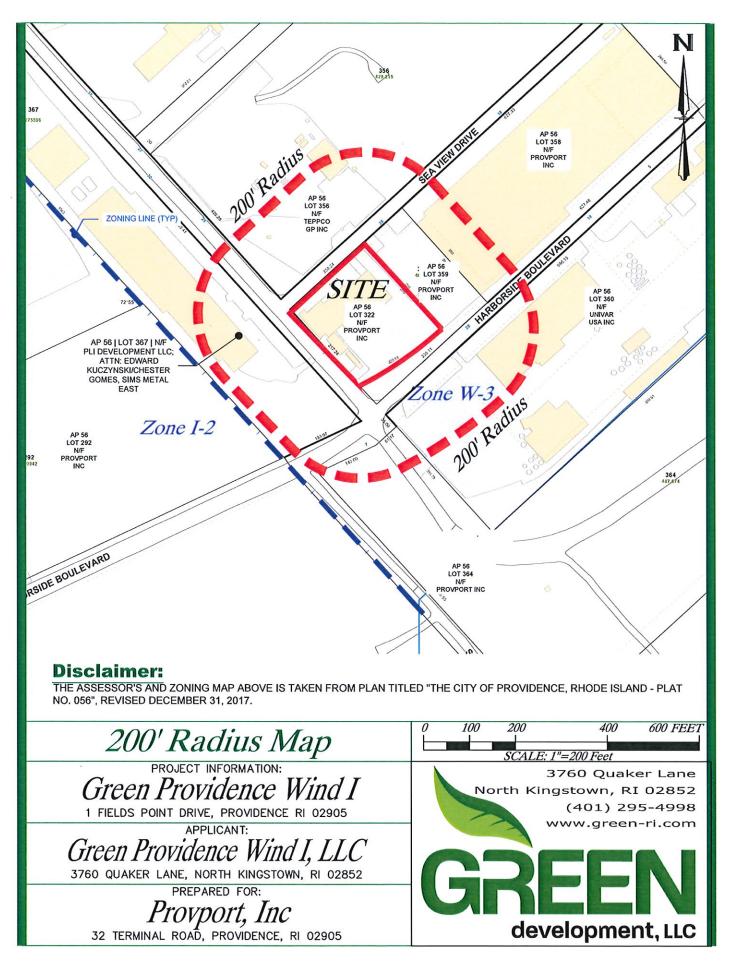






l





Page 16 of 58

Department of Planning and Development

RECOMMENDATION TO THE ZONING BOARD OF REVIEW

MAY 13, 2020

Application Type

Dimensional Variance

Neighborhood

Washington Park

Applicant

Green Providence Wind II LLC, Applicant. Mark DePasquale, Owner

Parcel

AP 56 Lot 322

Address

1 Fields Point Drive

Parcel Size

± 49,717 SF

Zoning District

W-3

Variance Requested

- 1. Dimensional variances for height of wind turbine
- 2. Dimensional variances for setback of wind turbine



Updated: April 28, 2020

1 FIELDS POINT DRIVE



Proposed development

SUMMARY

Project Description

The applicant is seeking a dimensional variance seeking relief from height and setback limits of Table 9-1 and Section 1202.CC.9, 10 & 11 in the installation and operation of a 342 foot turbine as part of a Wind Energy System (Principal Use).

Location Map

Discussion

The applicant is proposing to install a wind turbine on the subject property. The applicant is seeking dimensional variances for the proposed height and setback.

The proposed turbine height of approximately 342' exceeds the 90' height limit of the W-3 zone requiring a dimensional variance of 252'. The applicant also requires relief from setback requirements pertaining to the location of turbines from lot lines. The ordinance requires that turbines be set back 110% of the turbine height from the property line and nearest right of way. Further, turbines are required to be set back the distance of the turbine height from neighboring structures on the lot. The turbine will be set to the northern lot line, requiring a variance of approximately 376.2'. A variance of approximately 251' is required for the 125' proposed setback from adjacent rights of way, where 376.2' is required. A setback of 342' is required from other buildings on the lot and a variance of 317' is required with 25' proposed.

It is the DPDs opinion that the need for relief can be attributed to the unique characteristics of the

lot, which cannot accommodate the required setbacks due to the required height of the turbine. Per the application, the siting of the turbines and the proposed height is necessitated by the need to capture the required amount of wind necessary for energy generation without interfering with other proximate turbines. The subject lot, and all adjacent lots are owned by Provport, who has co-signed the application. Wind energy operation is permitted by right in the W-3 zone. A negative effect on neighborhood character or the health of the community is not expected as a result of the variance as the subject zone is intended to accommodate uses of varying intensity and there are numerous turbines in the vicinity.

In addition to the variance criteria, the applicant is required to demonstrate that shadow flicker on property not owned by the applicant will be limited to no more than 30 hours a year. The DPD would not object to granting the requested relief subject to demonstrating that shadow flicker will be limited.

Recommendation

Based on the foregoing discussion, the DPD recommends that the requested relief be granted subject to the applicant demonstrating that shadow flicker will be limited as required.

Page 17 of 58

PAGES 18-58: ZBR MEETING PRESENTATION SUBMISSION

Green Providence Wind I and II Providence Zoning Board

May 13, 2020





















Page 18 of 58



Project Team

Legal: Mancini-Carter, PC

Applicant/Project Owner: Green Providence Wind I, LLC Green Providence Wind IIO, LLC

Land Planner: JDL Enterprises / Joseph Lombardo

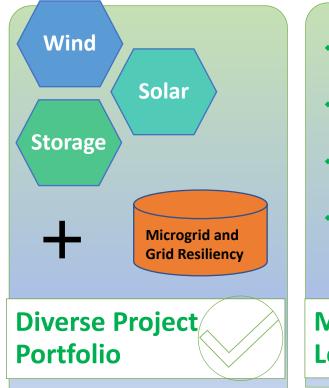
Civil Engineer: Green Development, LLC

Landowners: Johnson & Wales ProvPort

Turbine Supplier: Vensys North America





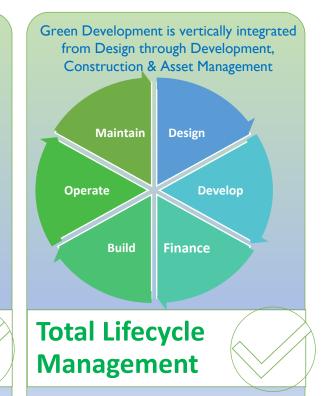


- 1st Large project under DG & REG
- Ist Virtual Net Metering Project
- 1st Multi-Municipal
 Collaborative Project
- #1 Delivering Virtual Net Metering Credits in RI

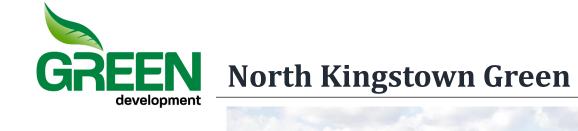
Market Leadership Founded in 2009

- 55.1 MW in Operational Wind & Solar Projects
- Largest Share: RI Net Metered Customers
- 200+ Million kWh's successfully delivered to RI entities.

Experience & Results



Page 20 of 58



















Page 23 of 58















Project Overview

Wind Energy Generating Systems

- 58-meter tower with 82 meter rotor diameter (41 meter blade length)
- Nearly identical to turbines operating north of this area at Narragansett Bay Commission
- Green Providence Wind II– (2) wind energy generating systems
 Plat 56 Lot 370
 Property Size 21.3 acres
 Use: Recreational fields for JWU, Urban Coastal Greenway
- Green Providence Wind I– (1) wind energy generating system
 - Plat 56 Lot 322
 - Property Size 49,717 sf
 - Use: Waterfront commercial (vehicle maintenance/storage facility)
 - Previously approved for zoning variance for this use in December 2018

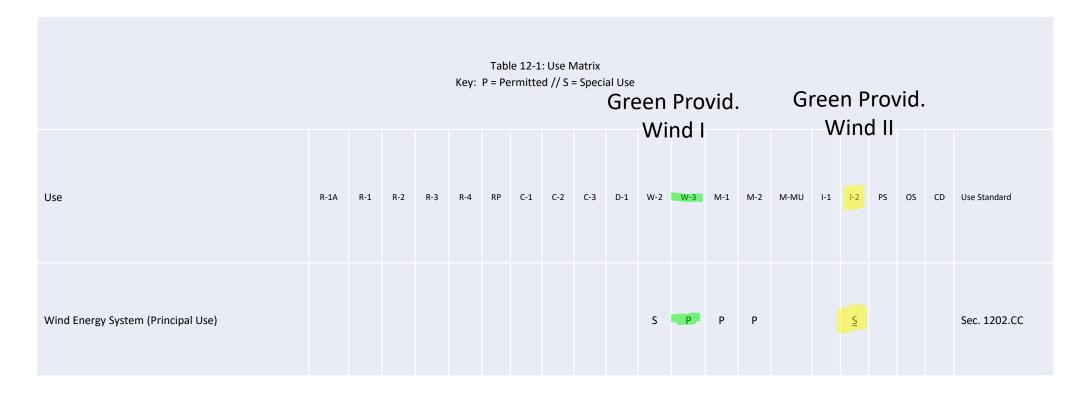


Page 26 of 58



Zoning Ordinance

ARTICLE 12. USES 1201 USE MATRIX



Page 27 of 58



- Port/Community Working Group Meeting 11/22/19
- Save the Bay 11/21/19 Met to discuss overview of project
- CRMC Preliminary Determination





Relief Requested – Green Providence Wind II

<u>Variances</u>

- Section 702-75' Building Height Limitation Structure height is 341', variance of 266'
- Section 1202-cc-10 A 375.1' property line setback is required, 69' is proposed for one of the turbines, requiring a variance of 306.1'
- Section 1202-cc-11 A 375.1' right of way setback is provided, 69' is proposed for one of the turbines, requiring a variance of 306.1'

Special Use Permit (Special Use in I-2 Zone) – The property is located in an I-2 Zone and adjacent to a W-3 zone and is located more than 1,000' from a residential zone as required in Ordinance 1202-cc-15

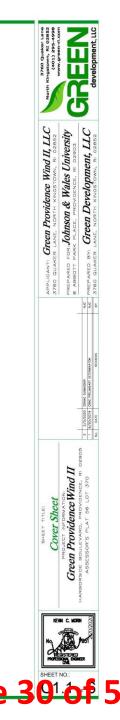
Page 29 of 58

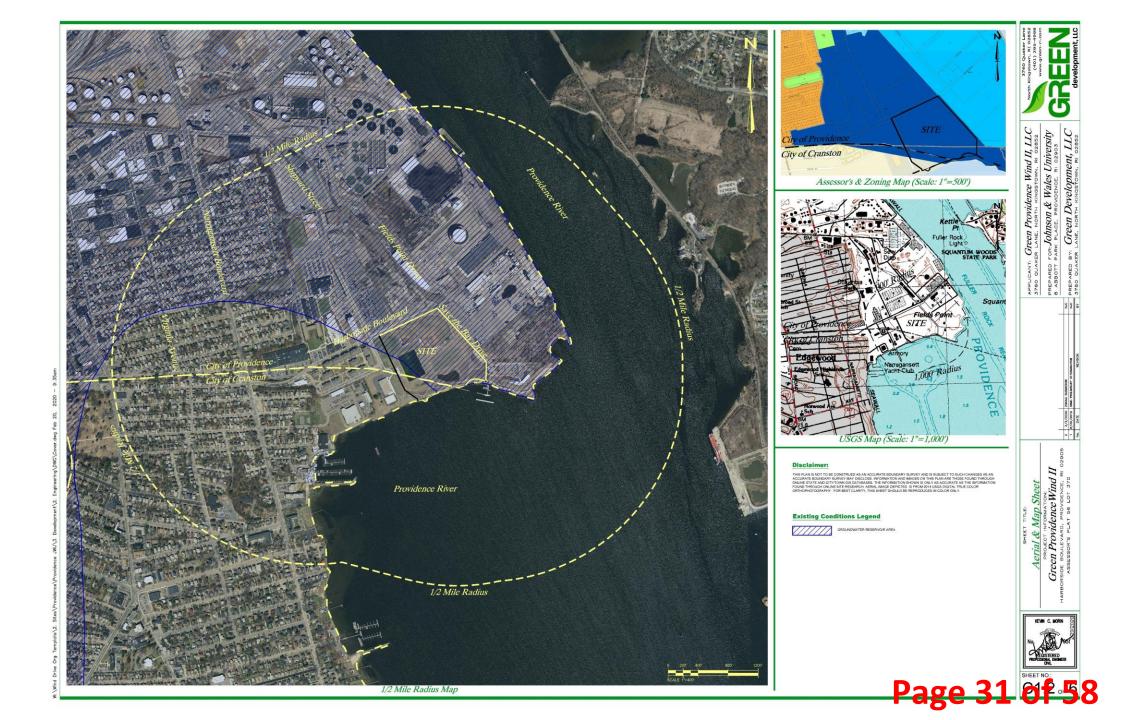
Zoning Submission

Green Providence Wind II 0 Harborside Boulevard Providence, Rhode Island 02905 Assessor's Plat 56 Lot 370

Sheet Index		
Sheet Number	Sheet Title	
C1.1	Cover Sheet	
C1.2	Aerial & Map Sheet	
C1.3	Existing Site Analysis Plan	
C1.4	Overall Site Plan	
C1.5	Construction Detail	
C1.6	Detail Sheet 1	
C1.7	Vensys Turbine Detail	

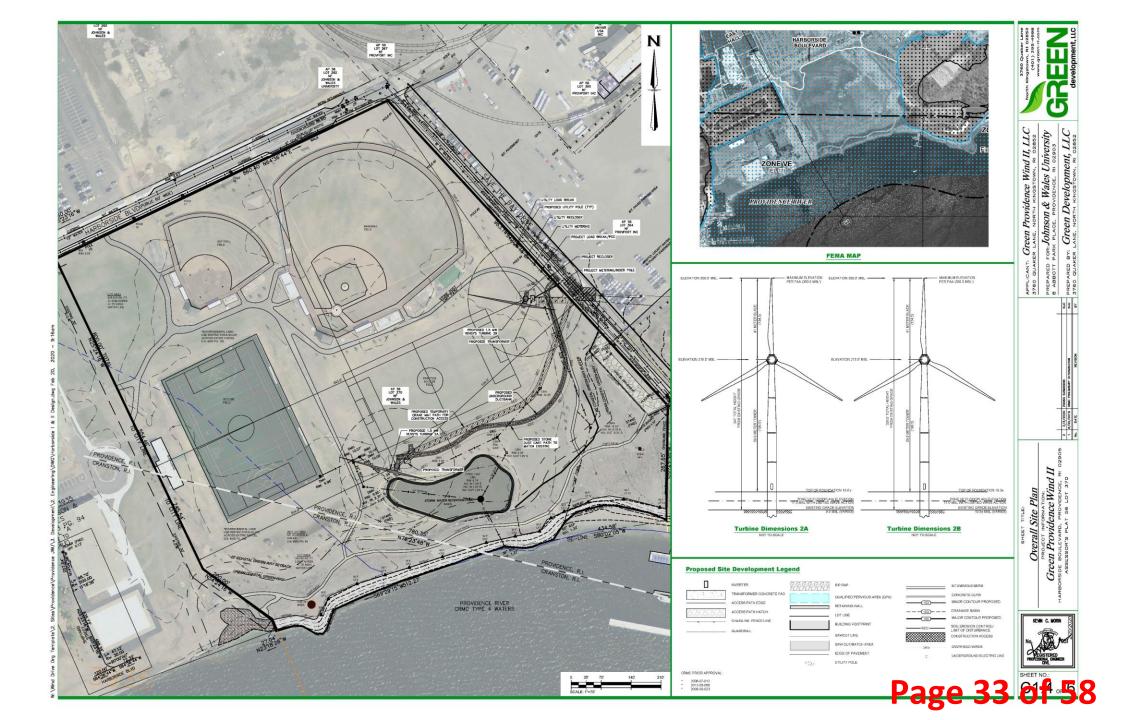


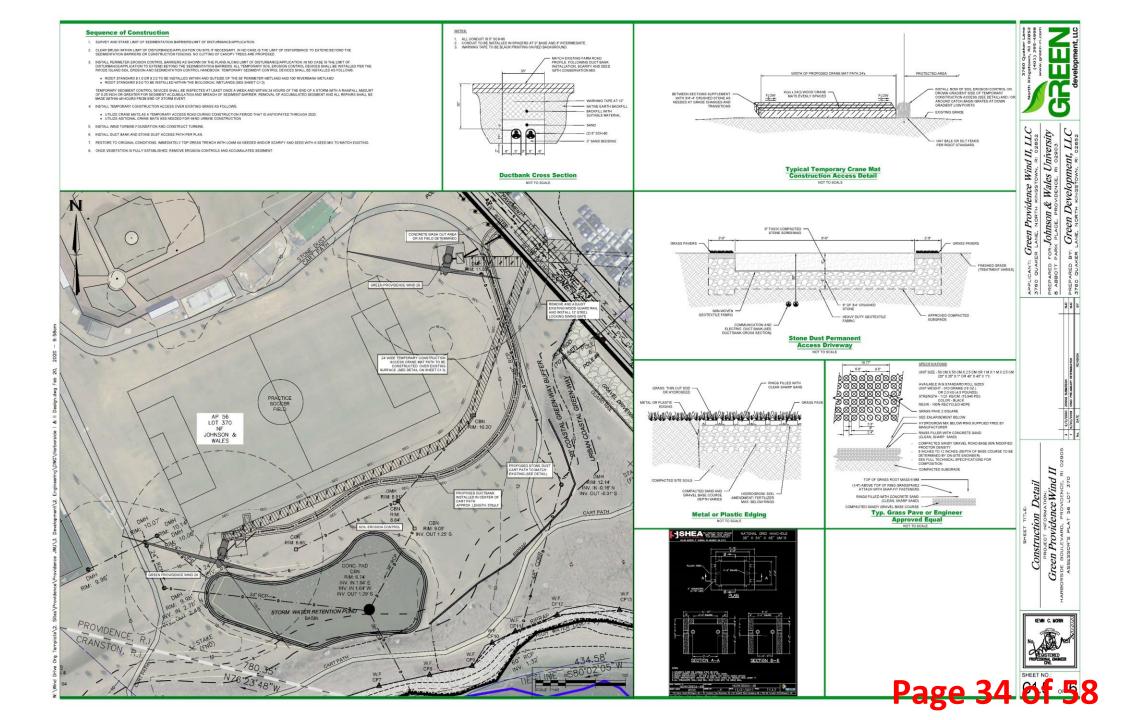






	GREEN DEVELOPMEN	NT, LLC				er Lane 1 02852 05-1998	4
	GREEN DEVELOPMEN 3750 DUAKER LANE NORTH KINGSTOWN,	RHODE IBLAND 02852				60 Quaker Lane stown, RI 02852 (401) 295-4998	i LL
OWNER INFORMATION	JOHN9ON & WALES 8 ABBOTT PARK PLAC PROVIDENCE, RHODE	CE E 19 AND 12903				3760 Quaker Lane Kingstown, RI 02852 (401) 295-4998	
SITE INFORMATION						3 North King	
REQUIRED PERMITS.	ZONE: 1-2 (EDUCATION CITY OF PROVIDENCE	NAL INSTITUTION DISTRICT) E ZONING ORDINANCE TABLE	12-2 USE MATRIX				65
EMA INFORMATION	OTY OF ROVIDENCE ZONNEG ROAMOE TABLE 12.2 USE MATRIX. PROPARE USE: WHILD ENERGY AVSITUM IPRIVOPAL USE; THE SITE IS LOCATED WITHIN ZONE VE BLEV. 17, AS DELIBATED ON THE FLOOD INSURANCE RATE IMP (FRM) FOR THE OTY OF PROVIDENCE.						0
	PROVIDENCE COUNT	Y. FIRM MAP NUMBERS, REVI	SICN DATES AND 20	ONE DESCRIPTIONS ARE AS FOLLOW.		U.	AU
	MAP 44007C0317J	MAP REVISION DATE SEPTEMBER 17, 2013				I, LLC	ersit)
	20NE VE(17)	COASTAL FLOOD ZONE	WITH VELOCITY HAD	SARD, BASE FLOOD ELEVATION (ELV 17)		<i>d II</i> , ^{ві о2}	
AREA INFORMATION	SITE WITHIN	TECTION AREA (RIDEM)		YESNO		ind n	Un RI O
	HISTORIC CEMETERY HISTORIC DISTRICT (C OVERLAY DISTRICT (C OROUNDWATER RESI GROUNDWATER RESI	TECTION AREA (RIDEM) AREAS (RIDEM) / AREA (CITY/TOWN) CITY/TOWN) CITY/TOWN) ERVOIR AREA (CITY/TOWN) MARGE AREA (CITY/TOWN)		Y <u>ESRIC</u> NO NO NO NO YES NO		Green Providence Wind II, r Lane, North Kingstown, ri 02	II & Wales Univ PROVIDENCE, RI 028 Development
SOIL INFORMATION:	SOIL NAME HSG	3 DESCRIPTION				Provia NORTH	Day
	PIA A UD N/A UrS N/A		AND COMPLEX			Pro	CE.
	THE SOIL ABBREVIAT INFORMATION FOUND THE PLAN AND ARE 1	IONS REFERENCE THE SOIL D THROUGH ONLINE RESEAR TO BE CONSIDERED APPROVE	SURVEY OF RHODE OH FROM RIGIS DAT MATE BASED ON PI	ISLAND, PREPARED BY THE USDA SOLL CONSERVATION A. THE ABBREVIATIONS CORRESPOND TO SOLLAREAS SIS DATABASE	N SERVICE OUTLINE ON	CON NE.	FOR: Johnson
ZONING INFORMATION	EXISTING ZONE (TABLE 18 20.010)		ZONE 1-3 (INSTITUTIONAL)	Navana area		CANT: Green	PARK
						ш	
	MINIMUM FRONTAGE MINIMUM FRONT YAR MINIMUM INTERIOR S	ID SIDE YARD	NONE NONE			NAD OUL	ABBOTT
	NINI MUM LOT AREA NINI MUM FRONTAGE NINI MUM FRONT YAR NINI MUM KTERIOR S NINI MUM CORNER BE NINI MUM CORNER BE	DE YARD: 3: HEIGHT	NONE NONE NONE NONE NONE 75*			APPLICANT: 3760 QUAKI	AB AB
	JUNLESS ABUTTING A	A RESIDENTIAL DISTRICT (NO				4 n	
EXISTING CONDITIONS WITHIN DEVELOPMENT, THIS PLAN IS N	THE PROPERTY WERE DE KOT TO BE CONSTRUED A	ETERMINED BY ONLINE INFOR	RMATION, AERIAL M. SURVEY AND MAY P	APPING, THE RIGIS DATABASE AND INFORMATION PRO BE SUBJECT TO SUCH CHANGES AS AN ACCURATE BOI	VIDED TO GREEN UNEARY SURVEY MAY		2
				U.S. SURVEY FEET ARE REFERENCED TO NAVDIS DATI			
				CEMETERY COMMISSION WEBSITE AND RESOURCES			
AND HOURS				AREA. ALL WORK WILL BE COORDINATED AS NECESSA			
THIS PLAN SET REFERENCES R DETAILS ARE LABELED WITHIN	HODE ISLAND DEPARTM IN THIS PLAN SET AS RID	ENT OF TRANSPORTATION (R XOT STD X X X REFERENCE L	IDOT) STANDARD D INK: HTTP:////WW/DO	ETALS WHICH CAN BE FOUND ON THE RECT ONLINE O TRIGOVIDOCUMENTS/DOINGBUSINESS/RIDOT_STD_1	DATABASE DESIGNATED DETAILS PDF		
NO TOPSOL OR PRIME AGRICU ALL EXISTING STRUCTURES AN				THE SITE FOR INSTALLATION OF THE FACILITY.			
THIS PROJECT IS PROPOSED T		BARE TO REMAIN AND PROT	EGTED CERNIC CO	STRUGTON ACTIVITES.			NOSIM
THERE ARE NO SIGNIFICANT IN							Access summary
				OF SECIMENTATION BARRERS AS SHOWN ON PLAN. HAVE BEEN RECEIVED, THE PROPOSED SCHEDULE OF	F CONSTRUCTION WELL		2 2
				ELL AS ADDITIONAL STONE DUST PATHS CONSISTENT			2/3/2020
CONDITIONS							~
HERE IS NO PLACEMBE IN THAT							p D
ARBOR SIDE BOULEVARD AND							0
HERE IS NO OUTDOOR LIGHTI							528
HERE IS NO OUTDOOR LIGHT	E BROLIGHT ONTO THE SI	TE THROUGH OVERHEAD UT	WITY POLES AND TH	RANSITION TO UNDERGROUND DUCTBAINK WITH TWO (MTICALLY AND DETAILED DESION SHALL BE COORDING	(2) 4 INOH UNDERGROUND ATED WITH NATIONAL	an	Ш RI 02905
THERE IS NO OUTDOOR LIGHT ELECTRICAL SERVICE SHALL B CONDUTS OR AS DEEMED NEC DRID AND MAY BE SUBJECT TO TIRE REQUIREMENTS FOR THE	E BROUGHT ONTO THE SI ESSARY BY NATIONAL OF MODIFICATION. PROPOSED USE WILL BE	THE THROUGH OVERHEAD UT RED. ELECTRICAL SERVICES (CADDRESSED PRIOR TO OBT.	ILITY POLES AND TH ARE SHOWN SCHEW AINING A BUILDING (NTICALLY AND DETAILED DESION SHALL BE COORDIN	(2) 4 INCH UNDERGROUND ATED WITH NATIONAL	Plan	<i>пd II</i> се, гі о29 370
HERE IS NO OUTDOOR LIGHT ILECTRICAL SERVICE SHALL B CONDUITS OR AS DEEMED NEC IRIDAND MAY BE SUBJECT TO THE REQUIREMENTS FOR THE IO SIGNIFICANT INCREASE IN I	E BROUGHT ONTO THE SI ESSARY BY NATIONAL OF MODIFICATION. PROPOSED USE WILL BE NPERVIOUS SURFACES II	ITE THROUGH OVERHEAD UT IRD ELECTRICAL SERVICES (E ADDRESSED PRIOR TO OBT. INCLUDING PAVEMENT, COMP	'LITY POLES AND TH ARE SHOWN SCHEW ANNING A BUILDING I PACTED GRAVEL OF	NTICALLY AND DETAILED DESIGN SHALL BE COORDIN PERMIT. STRUCTURES ARE PROPOSED.	ATED WITH NATIONAL	vsis Plan	ION: Wind II DENCE, RI 029
HERE IS NO OUTDOOR LIGHT LECTRICAL, SURVICE SHALL B CONDURS OR AS DEEMED NEC SIROLAND MAY BE SUBJECT TO THE REQUIREMENTS FOR THE IO SIGNIFICANT INCREASE IN I NG SAFE NOTE: PRE-MARKING RE-MARKING REQUIREMENTS	E BROUGHT ONTO THE SI IESSARY BY NATIONAL OF MODIFICATION. PROPOSED USE WILL BE NPERVIOUS SURFACES IN MEANS TO MARK OUT TH VARY SUGHTLY FROM ST	ITE THROUGH OVERHEAD UT IRD ELECTRICAL SERVICES (E ADDRESSED PRIOR TO OBT. INCLUDING PAVEMENT, COMP	'LITY POLES AND TH ARE SHOWN SCHEW ANNING A BUILDING I PACTED GRAVEL OF	NTICALLY AND DETAILED DESION SHALL BE COORDIN	ATED WITH NATIONAL	ue: nalysis Plan	RATION: 100 Wind II ROVIDENCE, RI 029 56 LOT 370
HERE IS NO OUTDOOR LIGHT LECTRICAL SERVICE SHALL B CONDUTE OR AD DESMED NOS NERVICE SHALL B REFERENCES AND AVE BUILDOT TO THE REQUIREMENTS FOR THE IO SEMPERANT INCREASE IN I NO SEMPERANT INCREASE IN INCREMENTS REQUIREMENTS STEE CONDITIONED IN THE SEMPERANT STEE STEE SEMPERANT IN THE SEMPERANT SEMPERANT IN THE SEMPERANT IN THE SEMPERANT STEED IN THE SEMPERANT SEMPERANT IN THE SEMPERANT SEMPERANT IN THE SEMPERANT IN THE SEMPERANT IN THE SEMPERANT SEMPERANT IN THE SEMPERANT SEMPERANT SEMPERANT IN THE SEMPERANT SEMPERANT SEMPERANT SEMPERANT IN THE SEMPERANT	E BROUGHT ONTO THE SI ESSARY BY NATIONAL OI MODFICATION. PROPOSED USE WILL BE NPERVICUS SURFACES II MEANS TO MARK OUT TH- VARY SUGHTLY FROM S' ONS LEGEND	ITE THROUGH OVERHEAD UT IRD ELECTRICAL SERVICES (E ADDRESSED PRIOR TO OBT. INCLUDING PAVEMENT, COMP	ILITY POLES AND TH ARE SHOWN SCHEW ANNING A BUILDING I PACTED GRAVEL OF HERE THE WORK W	NTICALLY MID DETAILED DERION SHALL BE COORDIN DERIMT. ISTRUCTURES ARE PROPOSED. LL TAKE PLACE, USING WHITE STAKES, PAINT OR PLAC	ATED WITH NATIONAL	Analysis Plan	VFORMATION: <i>dence Wind II</i> 0, providence, ri 029 AT 58 LOT 370
HERE IS NO OUTDOOR LIGHTI LICETTRAA. SERVICE SHALL SO ONOUTTE OR NO BERMED NEE IRIDAND MAY BE BUBLECT TO THE RECOMMENDATION OF AN ANY HERE RECOMMENDATION OF AN ANY SIGNET COMMENDATION OF AN ANY RECHARGE AND ANY ANY ANY ANY ANY ANY RECHARGE ANY ANY ANY ANY ANY ANY ANY ANY ANY RECHARGE ANY	E BROUGHT ONTO THE SI ESSARY BY NATIONAL OI MODFICATION. PROPOSED USE WILL BE NPERVICUS SURFACES II MEANS TO MARK OUT TH VARY SUGHTLY FROM S ONS LEGEND	ITE THROUGH OVERHEAD LT IRD. ELECTRICAL GERVICES / ELECTRICAL GERVICES / INCLUDING PAVEMENT, COMP HE AREA ON THE GROUND W TATE TO STATE 	LETY POLES AND TH ARE SHOWN SCHEW ANNING A BUILDING H PACTED GRAVEL OR HERE THE WORK W	NTICALLY AND DETAILED DERION SMALL SE COORDIN VERMT. STRUCTURES ARE PROPOSED. LL TARE PLACE, USING WHITE STAREE, PAINT OR FLAC NTER MAIN	ATED WITH NATIONAL	HEET TILE: The Analysis Plan	CT INFORMATION: OVIDENCE Wind II VARD, PROVIDENCE, RI 0291 S PLAT 56 LOT 370
HERE IS NO OUTDOOR LIGHT LECTRICAL SERVICE SHALL B CONDUTE OR AD DESMED NOS RECADE WAY BUILDED'T INE REQUIREMENTS FOR THE OS SERVICIONT INCREASE IN IN ING SAFE NOTE PRE-MARKING RE-MARKING REQUIREMENTS ING SITE CONDITION	E BROUGHT ONTO THE SI ESSARY BY NATIONAL OB ESSARY BY INATIONAL OB MODEFICITIES PROPOSED LISE WILL BE MPERVICUS SURFACES II MEANS TO MARK OUT TH VARY SUGHTLY FROM S' ONE LEGENS INE (CLSS 1)	ITE THROUGH OVERHEAD LT IRID ELECTRICAL SERVICES / E ADDRESSED PRIOR TO OBT. NOLUDING PAVEMENT, COMP HE AREA ON THE GROUND WI TATE TO STATE.	LETY POLES AND TH ARE SHOWN SCHEW ANNING A BUILDING H PACTED GRAVEL OR HERE THE WORK W	NTONLY AND CETALED DERIVED DERIVE SHALL SE COORDIN STRUKTURES ARE PROPORED ULL TAKE PLACE, USING WHITE STAKES, PANT OF PLAC ATER MAIN NE MAIN	ATED WITH NATIONAL	внеет птие: g Site Analysis Plan	COLECT INFORMATION: Providence Wind II ULEVARD, PROVIDENCE, RI 0291 DOPYS PLAT 56 LOT 370
нене із но оцлосоя цанті целеталь, ваучися ница на колито яка в десербани колито яка на решанасти те не лединемоста пол ница на не динемоста пол ница на не имана полите решиниста по дите ноте решиниста на по дите ноте решиниста на по дите ноте решиниста по дите ноте решиниста на по дите ноте решиниста на по дите ноте решиниста на по дите ноте на по дите на по дите на по дите на по дите на по дите на по дите на на по дите на по дите на по дите на на по дите на на на по дите на на на на на на на на на на	EBROUGHT ONTO THE SI ESSARY 91 MATORIL () MORTICATION PROPOSED USE WILL BE MPERVICUS SURFACES II MEANS TO SURFACES II MEANS TO SURFACES II MEANS TO SURFACES II MEANS () MEANS	TU CASHREVO HOUSENT 3TH CESTRER RECEIPTION AS A CONTROL OF THE THEO OF NOTIFIC AS A CONTROL OF THE THEO OF NOTIFICATION AS A CONTROL OF THE THEO OF THE OF T	TUTY POLES AND IT ARE SHOWN SCHEV ANING A BUILDING I PACTED GRAVEL OR HERE THE WORK WI — DUSTING W — DUSTING G	NTONLY AND CETALED DERIVED DERIVE SHALL SE COORDIN STRUKTURES ARE PROPORED ULL TAKE PLACE, USING WHITE STAKES, PANT OF PLAC ATER MAIN NE MAIN	ATED WITH NATIONAL	SHEET TILE: ting Site Analysis Plan	PROJECT INFORMATION: On Providence Wind II BOULEVARD, PROVIDENCE, RI ESSOR'S PLAT 56 LOT 370
HERE IN DO OUTDOOR LIGHT	E BROUGHT ONTO THE SI ESSARY BY NATIONAL OB MODIFICATION PROPOSED USE WILL BE MEENIOUS SURFACES IN MEANS TO MARK OUT TH- VARY SUGHTLY FROM S' ONS LEGEND INE (CLASS I) UNE	TU CASHREVO HOUSENT 3TH CESTRER RECEIPTION AS A CONTROL OF THE THEO OF NOTIFIC AS A CONTROL OF THE THEO OF NOTIFICATION AS A CONTROL OF THE THEO OF THE OF T	TUTY POLES AND IT ARE SHOWN SCHEV ANING A BUILDING I PACTED GRAVEL OR HERE THE WORK WI — DUSTING W — DUSTING G	NTONLY AND CETALED DERIVED DERIVE SHALL SE COORDIN STRUKTURES ARE PROPORED ULL TAKE PLACE, USING WHITE STAKES, PANT OF PLAC ATER MAIN NE MAIN	ATED WITH NATIONAL	знеет пие. Sxisting Site Analysis Plan	PROJECT INFORMATION: On Providence Wind II BOULEVARD, PROVIDENCE, RI ESSOR'S PLAT 56 LOT 370
нене и но очтоски цант. нене и но очтоски цант. некото как и семкие нис. векото как и семкие нис. векото как и семкие на кака о констраните и со на о констраните и со на на кака и со на		TU CASHREVO HOUSENT 3TH CESTRER RECEIPTION AS A CONTROL OF THE THEO OF NOTIFIC AS A CONTROL OF THE THEO OF NOTIFICATION AS A CONTROL OF THE THEO OF THE OF T	TUTY POLES AND IT ARE SHOWN SCHEV ANING A BUILDING I PACTED GRAVEL OR HERE THE WORK WI — DUSTING W — DUSTING G	NTONLY AND CETALED DERIVED DERIVE SHALL SE COORDIN STRUKTURES ARE PROPORED ULL TAKE PLACE, USING WHITE STAKES, PANT OF PLAC ATER MAIN NE MAIN	ATED WITH NATIONAL	N 1	PROJECT INFORMATION: On Providence Wind II BOULEVARD, PROVIDENCE, RI ESSOR'S PLAT 56 LOT 370
нене ія но очтосое цант исство, вакуст в нац. в видат то техно и нац. в нац. так нац. нац. нац. нац. нац. нац. нац. нац. нац. нац. нац. нац. не велиненота пот не не велиненота пот не нац.	E EIRICAJOT ONTO THE SE SIGNEY AN INTONNA ON MODERICATORI. MODERICATORI. PREPROVOLS UNE WILL BEE MERNET DARKO CHI TA MA NEL (DIS) NEL (DIS) NEL (DIS) NEL (DIS) NEL (DIS) RECENTANY BULFFER AL (DEED-WAY BULFFER AL (DEED-WAY BEE NEL	TU CASHREVO HOUSENT 3TH CESTRER RECEIPTION AS A CONTROL OF THE THEO OF NOTIFIC AS A CONTROL OF THE THEO OF NOTIFICATION AS A CONTROL OF THE THEO OF THE OF T	TUTY POLES AND IT ARE SHOWN SCHEV ANING A BUILDING I PACTED GRAVEL OR HERE THE WORK WI — DUSTING W — DUSTING G	NTONLY AND CETALED DERIVED DERIVE SHALL SE COORDIN STRUKTURES ARE PROPORED ULL TAKE PLACE, USING WHITE STAKES, PANT OF PLAC ATER MAIN NE MAIN	ATED WITH NATIONAL	Existing Site Analysis Plan	PROJECT INFORMATION: On Providence Wind II BOULEVARD, PROVIDENCE, RI ESSOR'S PLAT 56 LOT 370
нене ін мо очлосоя цент истоться, вакуст в нац. за наках на наках на наках на наках на наках на н	E LEIRCART ONTO THE SE SEMAY 24 MINTONIA OI MODIFICATION. PREPROVOLS USE WILL BE BREFENOLS SURFACES IS MEANET DURANC USE MINTON ONTO LEADER ONTO LEADER NE (CIS) NE (CIS) NE (CIS) REE LASS) REE REE-WAY SULFFER AL GREENWAY SULFFER AL GREENWAY NE (CIS) NE (CIS)	TU CASHREVO HOUSENT 3TH CESTRER RECEIPTION AS A CONTROL OF THE THEO OF NOTIFIC AS A CONTROL OF THE THEO OF NOTIFICATION AS A CONTROL OF THE THEO OF THE OF T	TUTY POLES AND IT ARE SHOWN SCHEV ANING A BUILDING I PACTED GRAVEL OR HERE THE WORK WI — DUSTING W — DUSTING G	NTONLY AND CETALED DERIVED DERIVE SHALL SE COORDIN STRUKTURES ARE PROPORED ULL TAKE PLACE, USING WHITE STAKES, PANT OF PLAC ATER MAIN NE MAIN	ATED WITH NATIONAL	внеет пице: Existing Site Analysis Plan	Green information: Green Providence Wind II Harbonele Bouleaners, providence a ozo assessor's plat b6 lot 370
нене із но силосон ціян Л целетної, земися вичца в селито на сило восона вича в селито на сило восона вича в селито на сило во селито по територи на сило во селитори по територи на сило во селитори на сило во се		TU CASHREVO HOUSENT 3TH CESTRER RECEIPTION AS A CONTROL OF THE THEO OF NOTIFIC AS A CONTROL OF THE THEO OF NOTIFICATION AS A CONTROL OF THE THEO OF THE OF T	TUTY POLES AND IT ARE SHOWN SCHEV ANING A BUILDING I PACTED GRAVEL OR HERE THE WORK WI — DUSTING W — DUSTING G	NTONLY AND CETALED DERIVED DERIVE SHALL SE COORDIN STRUKTURES ARE PROPORED ULL TAKE PLACE, USING WHITE STAKES, PANT OF PLAC ATER MAIN NE MAIN	ATED WITH NATIONAL		PROJECT INFORMATION: On Providence Wind II BOULEVARD, PROVIDENCE, RI ESSOR'S PLAT 56 LOT 370
нене із но очлосое цант пистиков, ванчи в нації на пистиков, ванчи в нації на пистиков, ванчи в нації на пистиков на транавлання на не не ледилемоть по тик- не педилемоть по тик- в сокитоля тиковаков пара за транавлання пара пара за транавлання на пара за тра	В ВООСНИКОТО ТНЕ ВЕ ВИ ВООСНОТО ТНЕ ВИ ВИ ВООСНОТО ТНЕ ВИ ВИ ВООСНОТО ТНЕ ВИ ВИ ВООСНОТО ТНЕ ВИ ВИ ВООСНИТО ТНЕ МАСОРИСАТИТИ ВИ ВИСТИ ВИ ВИ ВИТИ ВИ ВИТИВИ ВИТИВИ. ВИ ВИТИ ВИТИ ВИ ВИТИВИ ВИТИВИ ВИТИВИ ВИ ВИТИВИ ВИ ВИТИВИ ВИТИВИ ВИТИВИ ВИТИВИ ВИТИВИ ВИТОВИ ВИТОВИ ВИТОВИ ВИТИВИ ВИТО ВИТИВИ ВИТОВИ ВИТОВИ. ВИТО ВИТО ВИТОВИ ВИ ВИТОВИ ВИТОВИ ВИТОВИ ВИТОВИ ВИТОВИ ВИТОВИ. ВИТОВИ ВИТОВИ ВИТОВИ ВИТОВИ ВИТОВИ ВИТОВИ ВИТОВИ ВИТОВИ ВИТОВИ ВИТОВИ ВИТОВИ ВИТОВИ ВИТОВИ ВИТИВИ ВИТИВИ ВИТИВИ. ВИ ВИТОВИ ВИТИТИВИ ВИТИВИ ВИТИВИ ВИТИВИ ВИТОВИ ВИТОВИ ВИТ	TU CASHREVO HOUSENT 3TH CESTRER RECEIPTION AS A CONTROL OF THE THEO OF NOTIFIC AS A CONTROL OF THE THEO OF NOTIFICATION AS A CONTROL OF THE THEO OF THE OF T	TUTY POLES AND IT ARE SHOWN SCHEV ANING A BUILDING I PACTED GRAVEL OR HERE THE WORK WI — DUSTING W — DUSTING G	NTONLY AND CETALED DERIVED DERIVE SHALL SE COORDIN STRUKTURES ARE PROPORED ULL TAKE PLACE, USING WHITE STAKES, PANT OF PLAC ATER MAIN NE MAIN	ATED WITH NATIONAL		РАСЛЕСТ ИКРАНАТОН. <i>Green Providence Wind II</i> НАЯВОНЗОВ ВОЦЕХАНО, РЕОУДЕЛСЕ, RI АSESSON'S PLAT OF UT 370
Соссила А и везности полноми и и видист и полноми и и видист и полноми и и и и и и и и и полноми и и и и и и и и полноми и и и и и и и полноми и и и и и и полноми и и и и и полноми и и и и и полноми и и и и полноми и и и и полноми и и и и полноми и и полноми и и полноми		TU CASHREVO HOUSENT 3TH CESTRER RECEIPTION AS A CONTROL OF THE THEO OF NOTIFIC AS A CONTROL OF THE THEO OF NOTIFICATION AS A CONTROL OF THE THEO OF THE OF T	TUTY POLES AND IT ARE SHOWN SCHEV ANING A BUILDING I PACTED GRAVEL OR HERE THE WORK WI — DUSTING W — DUSTING G	NTONLY AND CETALED DERIVED DERIVE SHALL SE COORDIN STRUKTURES ARE PROPORED ULL TAKE PLACE, USING WHITE STAKES, PANT OF PLAC ATER MAIN NE MAIN	ATED WITH NATIONAL		РАСЛЕСТ ИКРАНАТОН. <i>Green Providence Wind II</i> НАЯВОНЗОВ ВОЦЕХАНО, РЕОУДЕЛСЕ, RI АSESSON'S PLAT OF UT 370
Helle II NO OUTDOOP LIGHT HELECTICK-LEWERK SERVICE BALL LECTICK-LEWERK SERVICE BALL Service Ball SERVICE BALL Service Ball Service Ball THE REQUERTION FOR THE Service Ball Service Ball Service Ball Service Ball Service Ball Service Ball Service Ball HERE Service Ball HERE Service Ball	Employing Services (Services) MICORICICUS MICORICICUS MICORICICUS MICORICUS MICORICUS MICORAL M	TU CASHREVO HOUSENT 3TH CESTRER RECEIPTION AS A CONTROL OF THE THEO OF NOTIFIC AS A CONTROL OF THE THEO OF NOTIFICATION AS A CONTROL OF THE THEO OF THE OF T	TUTY POLES AND IT ARE SHOWN SCHEV ANING A BUILDING I PACTED GRAVEL OR HERE THE WORK WI — DUSTING W — DUSTING G	NTONLY AND CETALED DERIVED DERIVE SHALL SE COORDIN STRUKTURES ARE PROPORED ULL TAKE PLACE, USING WHITE STAKES, PANT OF PLAC ATER MAIN NE MAIN	ATED WITH NATIONAL		РАСЛЕСТ ИКРАНАТОН. <i>Green Providence Wind II</i> НАЯВОНЗОВ ВОЦЕХАНО, РЕОУДЕЛСЕ, RI АSESSON'S PLAT OF UT 370







Engineering Design

- Minimize Site Disturbance
 - Example from another wind site site
 - Crane mats across pasture/hayfield during construction stage
 - Minimize disturbance and restoration required



Providence Wind II

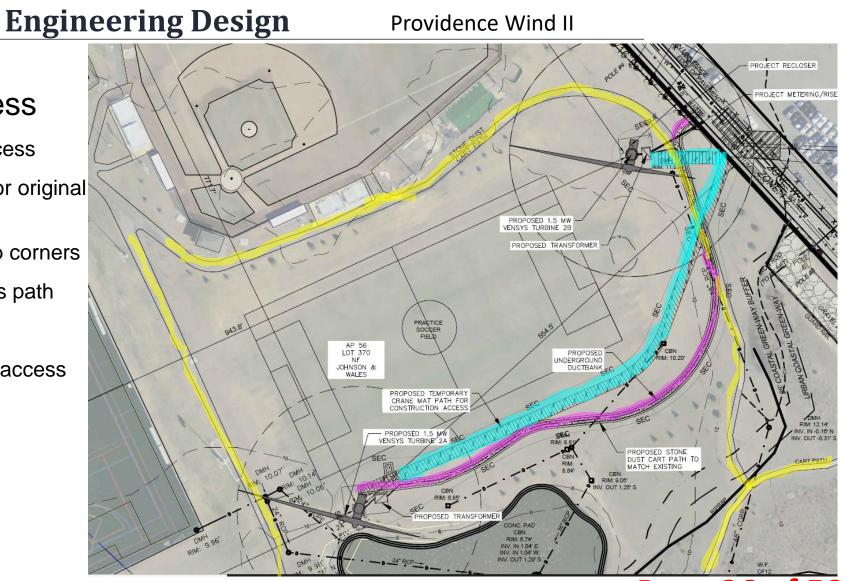


Page 35 of 58



Creative Site Access

- Pervious surface for access
- Match design concept for original complex
- Soft bends versus sharp corners
- Existing pervious access path
- Proposed access path
- Crane mat construction access

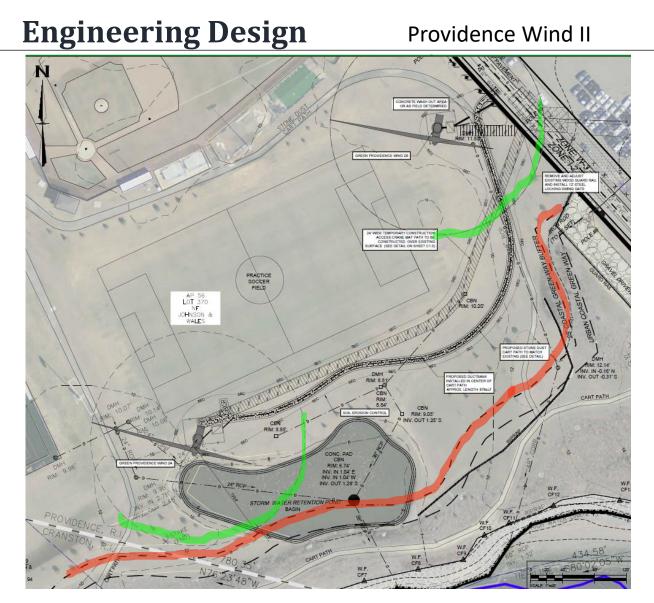


Page 36 of 58



CRMC Coastal Feature/ Urban Coastal Greenway

- CRMC PD Application
- Turbines and Blade Swing (—) Avoid UCG and 25' Buffer (—) per CRMC Standards
- Less than 1 acre of land disturbance through the use of crane mats for construction access



Page 37 of 58



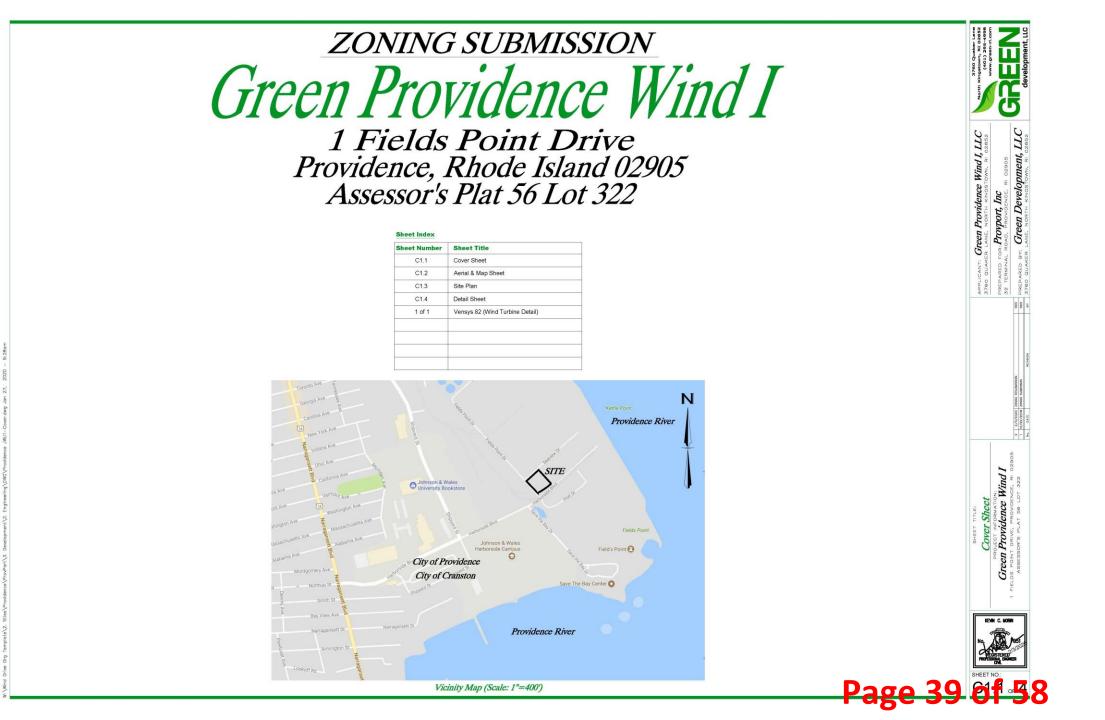
Relief Requested – Green Providence Wind I

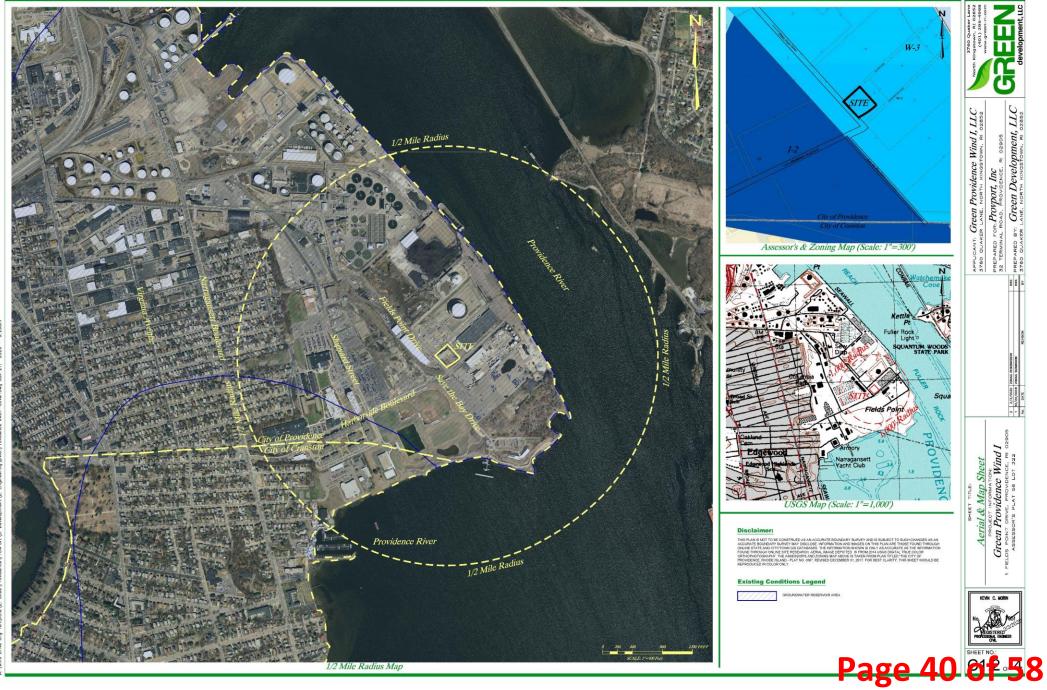
<u>Variances</u>

- Section 902-90' Building Height Limitation Structure height is 342', variance of 252'
- Section 1202-cc-10 A 376.2' property line setback is required, 0' is proposed, requiring a variance of 376.2'
- Section 1202-cc-11 A 376.2' right of way setback is provided, 125' is proposed requiring a variance of 251.2'
- 1202-cc-09 A 342' structure setback is required, 25' is proposed, requiring a variance of 317'

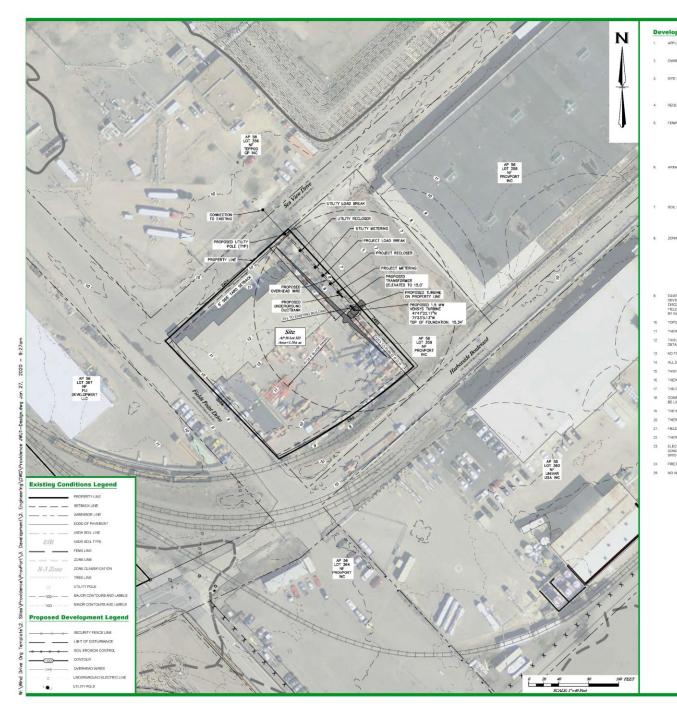
Permitted Use in W-3 zone (No Special Use Permit required)

Page 38 of 58

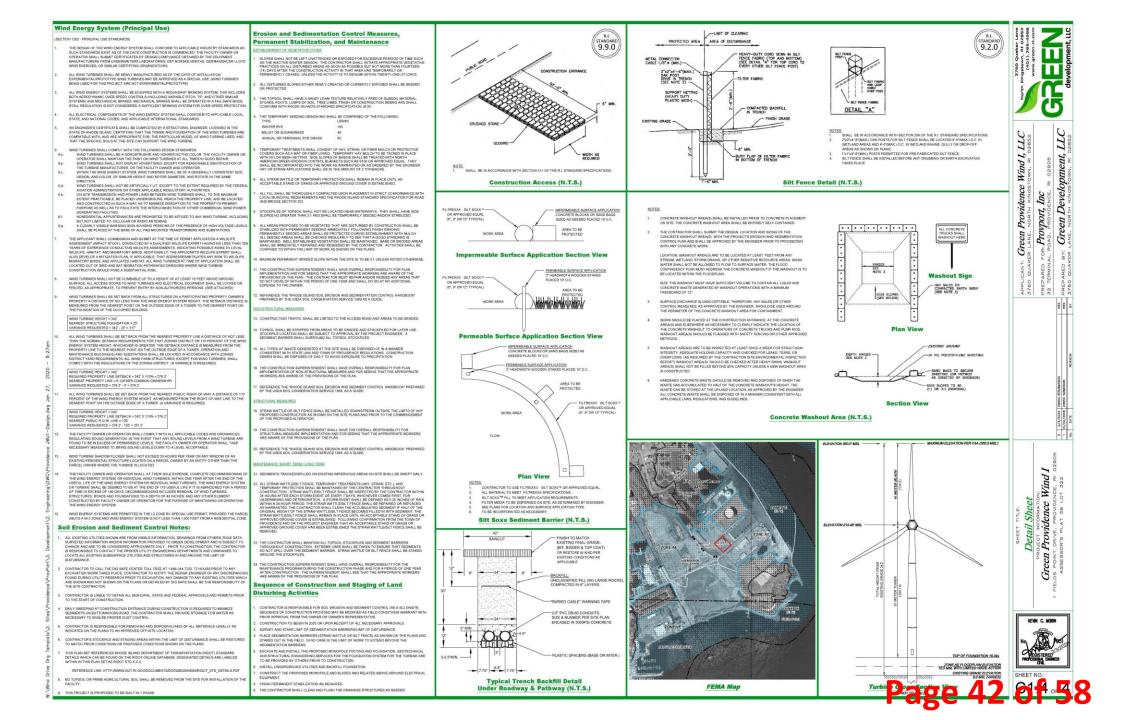




id Drive Org Template/2. Sites/Providence/ProvPart/3. Development/2. Engineering/DWC/Providence UMU1-Cover.deg Jan 27, 2020 - 9:23am



PLICANT INFORMATION	GREEN PROVIDENCE V 2750 GUAKER LANE NORTH KINGSTOWN, R	WND1, LLC				3760 Quaker Lane Kingstown, RI 02852 (401) 295-4998 www.dreen-ri.com	Z	development, LLC
NER INFORMATION:	PROVPORT INC						H	dol
E INFORMATION	XI (1990)MAL (HOL) PROVIDENCE (HOL							
OURED PERMITS	CITY OF PROVIDENCE.		2	C	5			
MA INFORMATION.	PROPAGE LUE: WHO ENERGY SYSTEM (PRACPAL LUE) PRIMINE LUCKETZORE W HARE AND							
		FIRM MAP NUMBERS, RI MAP REVISION DATE SEPTEMBER 18, 2013		ZONE DESCRIPTIONS ARE AS FOLLOW:	1012-0420	LLC		LLC
	WAP 44007C0317J					LI		LL(
	ZONE AE	SPECIAL FLOOD HAZ	ARD AREAS INUNDAT (TION)	TED BY 100-YEAR FLOOD BASE FLOOD ELEVATION (ELEV.12 WITHIN LIN	ITOF	dI,	5	III,
EA INFORMATION:	STE WITHIN GROUNDWATER PROT INATURAL HERITAGE AI HISTORIC COMETERY / HISTORIC DISTRICT (CI OVERLAY DISTRICT (CI GROUNDWATER REGE GROUNDWATER REGE	ECTION AREA (RIDEM) REAS (RIDEM) INEA (CITY/TOWN) TY/TOWN) TY/TOWN RYOIR AREA (CITY/TOWN AREA REA (CITY/TOWN	0	758500 NG NG NG NG NG YES NG		RI 029		
LINFORMATION	SOIL NAME HSG UD N/A	DESCRIPTION UDORTHENTS-URBAN	I LAND COMPLEX			DVIG	IT,	Q F
				E ISLAND, PREPARED BY THE USDA SOLIDONSERVATION SERVICE ATA, THE ABBREVIATIONS CORRESPOND TO SOLI AREAS OUTLINE ON RIGIS DATABASE		n Pro	OVPO	Green D
NING INFORMATION	EXISTING ZONE (TABLE 18 20.010)		ZONE W3 WATERFRONT			CC S	Pro	GZ
	MINIMUM LOT AREA. NINI MUM FRONTAGE NINI MUM FRONT YARD NINI MUM INTERIOR SID NINI MUM CORNER SID NINI MUM CORNER SID NINI MUM REAR YARD. NIAXIMUM BUILDING HE	E YARD. E YARD. JIGHT:	NONE NONE 6 NONE NONE 80			APPLICANT: G	PREPARED FOR: Provport, Inc. 32 TERMINAL ROAD, PROVIDENCE.	ARED BY: QUAKER
		RESIDENTIAL DISTRICT (7				APPLIC 3760	32	
STING CONDITIONS WITHIN VELOPMENT THIS PLAN IS N ICLOSE REFERENCE CLASS LDS POINT AVE. SHIPYARD 3	THE PROPERTY WERE DET KOT TO BE CONSTRUED AS I SURVEY PLAN BY OTHER STREET, & HARBORSDE BO	ERMINED BY ONUNE INF AN ACCURATE BOUNDA IS ENTITLED 'ADMINISTR SULEVARD' PREPARED F	FORMATION, AERIAL RY SURVEY AND MA ATIVE SUBDIVISION OR PROV. PORT, INC.	MAPPING, THE RIGIS DATABASE AND INFORMATION PROVIDED TO GR PE FUBLIEGT TO SUCH CHANGES AS AN ACCURATE BOLINGAPY SUM- ORT OF PROVIDENCE, RHODE SLAND, TERMINAL ROAD, NEW YORK C, TERMINAL ROAD, PROVIDENCE, IN-RODE SLAND DATED MAY 24, 2001 14.	EEN VEY MAY WENUE, PREPARED			Ress Ress Trans
				14. N.U.S. SURVEY FEET ARE REFERENCED TO NAVD80 DATUM.				
				AL CENETERY COMMISSION WEBSITE AND RESOURCES				
IS PLAN SET REFERENCES F	HODE ISLAND DEPARTMENT IN THIS PLAN SET AS RECO	T OF TRANSPORTATION	(RIDOT) STANDARD	DETAILS WHICH CAN BE FOUND ON THE RIDOT ONLINE DATABASE. DE DOT RIGOV/DOCUMENTS/DONGBUSINESS/RIDOT_STD_DETAILS.PDF	SKINATED			
				M THE SITE FOR INSTALLATION OF THE FACILITY.				REVOICE
LEXISTING STRUCTURES AN		ARE TO REMAIN AND PR	OTECTED DURING C	ONSTRUCTION ACTIVITIES.				REV
IS PROJECT IS PROPOSED T ERE ARE NO SIGNIFICANT IN		VALUE WITH CITY OFFICE	CEP OD TO THE END	E-A MENT				58 8
				IT OF SECIMENTATION BARRERS AS SHOWN ON PLAN.				ZONNO REJUNISION ZONNO SUMMISSON
NETRUCTION TO BEGIN IN 2	220 OR UPON RECEIPT OF	ALL NECESSARY PERMIT	IS ONCE ALL PERMI	TS HAVE BEEN RECEIVED, THE PROPOSED SCHEDULE OF CONSTRUCT	ION WILL			DANO
E SITE WILL UTILIZE EXISTIN								2 2/3/2020 2 1 h0/22/2016 2 No. DATE
ERE IS NO INCREASE IN TRA								2/3/1 10/22/01
LDS POINT DRIVE, SEAVIEW				DY VEHICLE ADDESS TO THE PROPERTY.				n - 9
				TRANSITION TO UNDERGROUND DUCTRANK WITH TWO (2) 4 INCH UND EMATICALLY AND DETAILED DESIGN SHALL BE COORDINATED WITH NA	ERGROUND TIONAL			
E REQUIREMENTS FOR THE	PROPOSED USE WILL BE A	DORESSED PRIOR TO O	BTAINING A BUILDIN	S PERMIT.		Site Plan	Green Providence Wind	1 FIELDS POINT DRIVE, PROVIDENCE, RI 02905 ASSESSOR'S PLAT 56 LOT 322
				Page 4	1	No. ROPES		H 1312022 ER

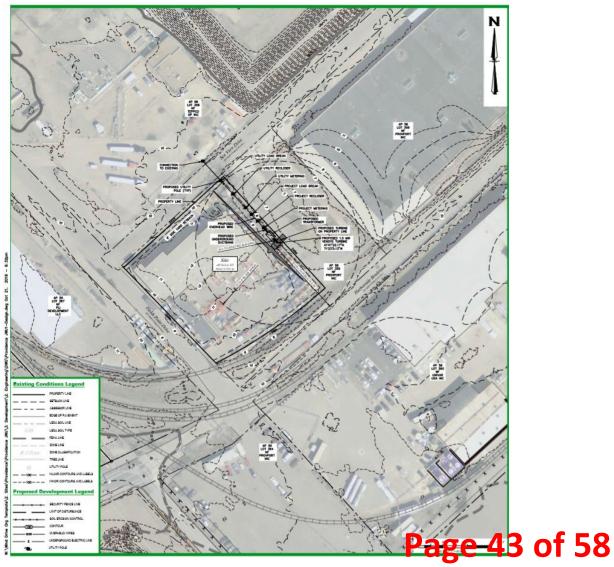




Providence Wind I

- Existing developed areas, minimal disturbance during construction
- Existing impervious surface onsite



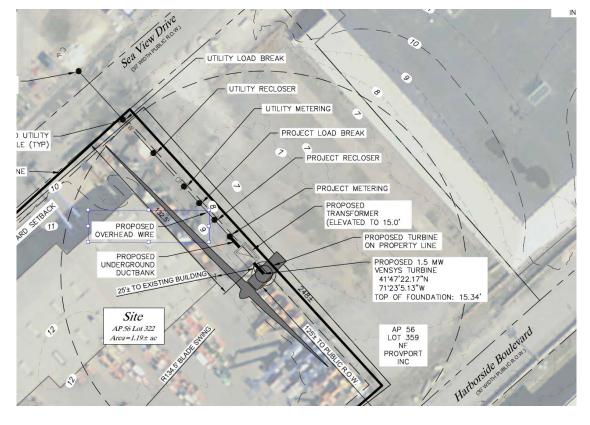




Engineering / Design

Providence Wind I

 Adjacent properties requiring dimensional variance are under common ownership





Page 44 of 58



Variance Criteria

- Variance is due to the unique characteristics of the subject land or structure and not to the general characteristics of the surrounding area
- Hardship is not the result of any prior action of the applicant and does not result primarily from the desire of the applicant to realize greater financial gain
- Granting of the variance will not alter the general character of the surrounding area or impair the intent or purpose of the Ordinance or the Comprehensive Plan
- That the relief to be granted is the least relief necessary

Page 45 of 58



Special Use Standards

Special Use Permit Criteria

- Consider the written opinion from the Department of Planning and Development
- Make specific finding of fact, in writing, with evidence supporting them, that demonstrates that:
 - The proposed special use permit is set forth specifically in this Ordinance, and complies with any condition set forth therein for the authorization of such special use permit, including those listed in Article 12
 - Granting the proposed special use permit will not substantially inure the use and enjoyment of nor significantly devalue neighboring property
 - Granting the proposed special use permit will not be detrimental or injurious to the general health or welfare of the community

Page 46 of 58



Unique Characteristics and Least Relief

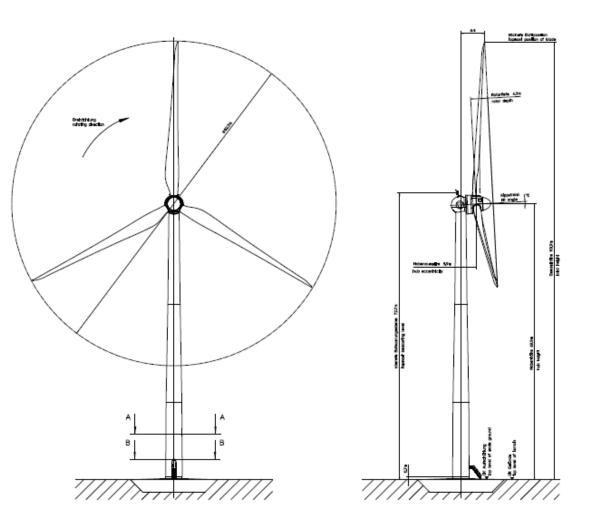
...due to the unique characteristics of the subject land or structure and not to the general characteristics of the surrounding area...



- Based on existing wind patterns and surrounding characteristics, The WECS model selected is the minimum necessary for a viable project
- 58 meter tower/ hub height proposed
- Reduced height by 49 feet due to TF Green flight path







Page 48 of 58



- Shadow flicker may occur when the sun is very low in the sky at sunrise and sunset.
- Model **does not account for existing objects on the ground** such as tree or buildings.

f 58

Page 49 o

- Model assumes receptors are "glass" houses and doesn't take into account window locations, size, orientation.
- Model takes into account wind resource and weather



Shadow Flicker - Defined

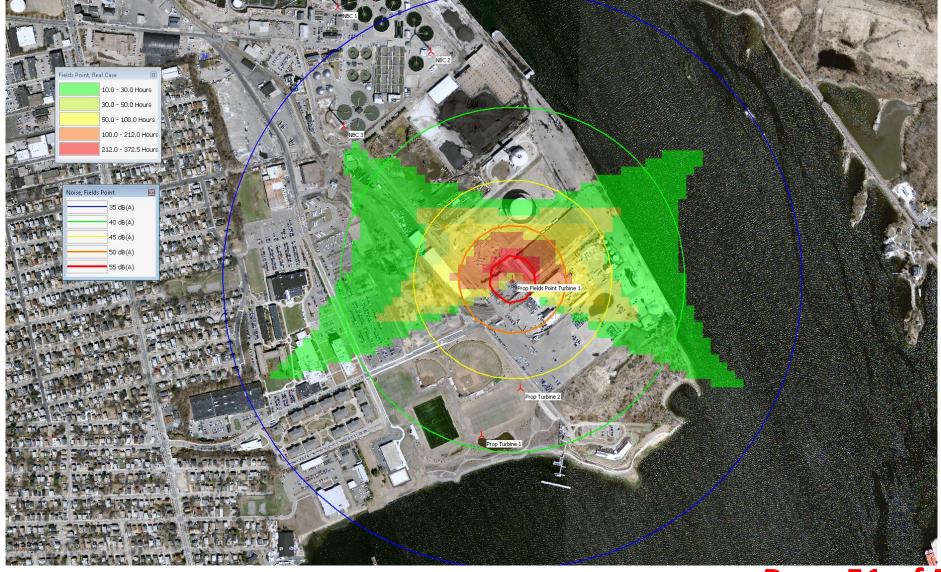
"Shadow flicker can be defined as an intermittent change in the intensity of light in a given area resulting from the operation of a wind turbine due to its interaction with the sun. While indoors, an observer experiences repeated changes in the brightness of the room as shadows cast from the wind turbine blades briefly pass by windows as the blades rotate. In order for this to occur, the wind turbine must be operating, the sun must be shining, and the window must be within the shadow region of the wind turbine, otherwise there is no shadow flicker."

Reference: Report entitled "Wind Energy Development Project Town of Coventry, Rhode Island" prepared by Epsilon Associates, Inc. September 11, 2018

Page 50 of 58

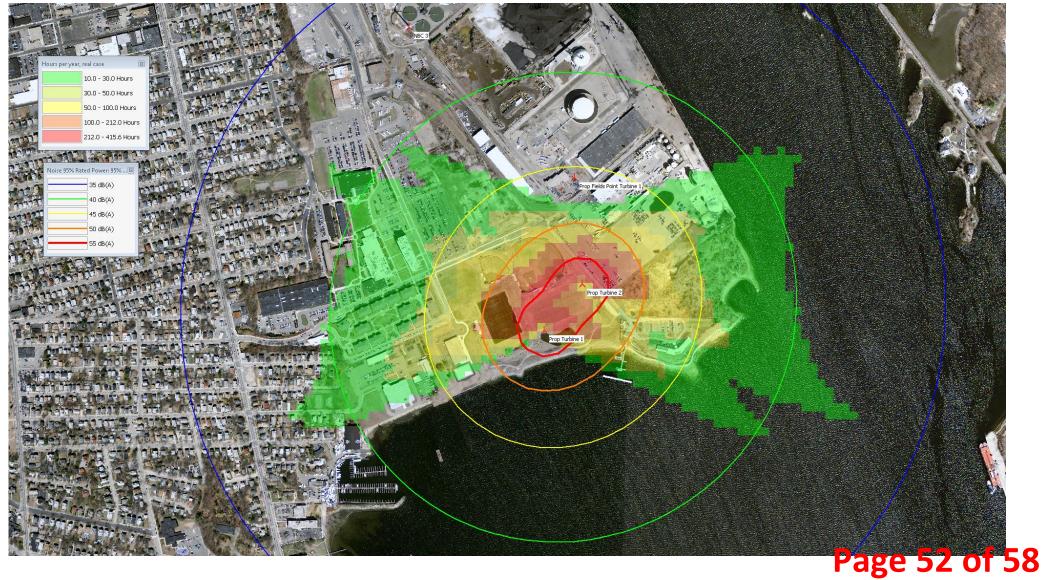


Noise and Shadow Flicker - PVD Wind I (Fields Pt. Drive)



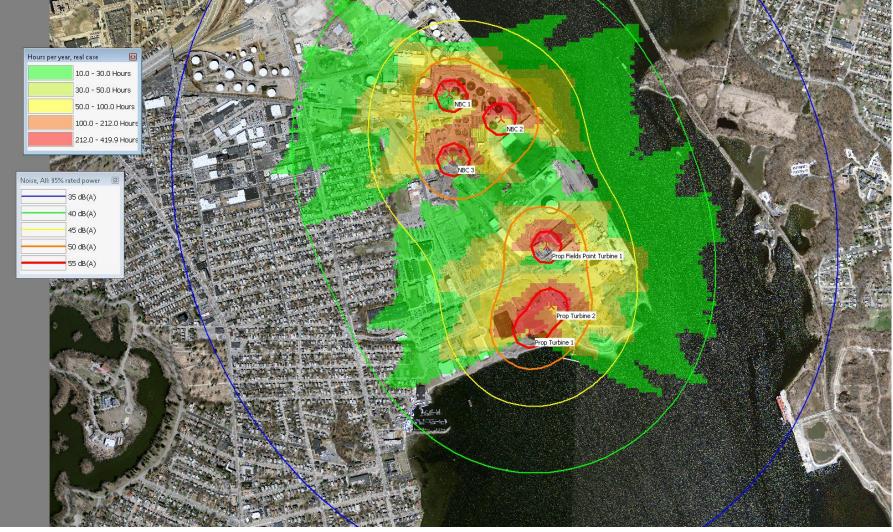
Page 51 of 58







Noise and Shadow Flicker – Combined Existing and Proposed with NBC Existing Turbines

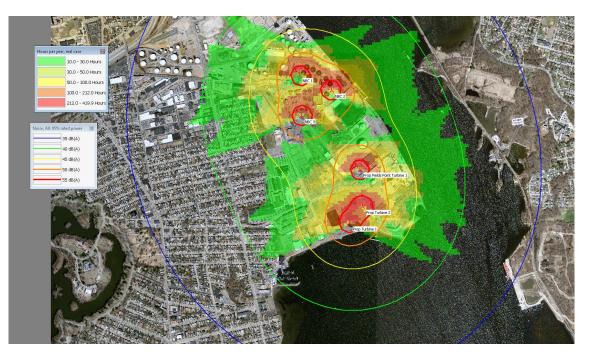


Page 53 of 58



Noise and Shadow Flicker Summary

- Meets the requirements of the ordinance for flicker – Shall not exceed 30 hours per year on any window of an existing residential structure owned by an entity other than the parcel owner where the turbine is located
- Noise levels <= 55 dBA (Chapter 16, Article III "Noise Control"
- No known complaints for NBC turbines located north of the project in closer proximity to residential areas



Chapter 16 Article III "Noise Control":

Zoning District	Time	Sound Limit dBA		
Residential	7:00 a.m. to 9:59 p.m. 10:00 p.m. to 6:59 a.m.	65 dBA 55 dBA		
Downtown	2:00 a.m. to 7:00a.m. All other times	55 dBA 75 dBA		
Commercial/Industrial	2:00 a.m. to 7:00 a.m. All other times	55 dBA 75 dBA		
Open Spaces	2:00 a.m. to 7:00 a.m. All other times	55 dBA 75 dBA		
Waterfront	2:00 a.m. to 7:00 a.m.	55 dBA		

Page 54 of 58



Variance Standards Met

- The hardships presented are due to the unique characteristics of the subject land or structure and not to the general characteristics of the surrounding area; and is not due to a physical or economic disability of the applicant:
 - The height of the wind energy systems is necessary in order to capture the amount of wind necessary for energy generation without turbulence and is limited by FAA restrictions.
 - Wind turbines must be placed a certain distance apart for optimal performance

2. The hardship is not the result of any prior action of the Applicants and does not result primarily from the desire of the Applicant to realize financial gain.

 The applicants took no prior action concerning the property (Prior zoning variance granted in 2018 for Harborside III). There is not greater financial gain from the locations of the turbine, and just a desire to establish a working wind energy system.

Page 55 of 58



3. The granting of the requested variances will not alter the general character of the surrounding area or impair the intent or purpose of the Zoning Ordinance or the Comprehensive Community Plan

- Wind turbines are characteristic of the type and developed suited for W-3 zone as a permitted use and the I-2 zone as a special use permit for the land uses designated in the Comprehensive Community Plan.
- The turbines are similar to other located around the Port
- 4. The relief sought is the least relief necessary in order to relieve the hardship
 - Without dimensional variances the wind turbines would not be able to effectively and efficiently produce renewable energy.
 - The locations were determined so as not to interfere with wind turbines already located north of the Property
- 5. The hardship to be suffered by the owner of the Property if the dimensional is not granted amounts to more than a mere inconvenience
 - The variances are necessary to create an effective wind energy system

Page 56 of 58



Special Use Permit Standards Met

- Granting the proposed special use permit will not substantially inure the use and enjoyment of nor significantly devalue neighboring property
 - The proposed wind energy systems are located and design to be sensitive to the use and enjoyment and value of the neighboring properties.
 - The wind energy systems are located more than 1,000' from a residential zone as per the zoning ordinance
 - The wind energy system are consistent with existing turbines in proximity to the site





Special Use Permit Standards Met

2. Granting the proposed special use permit will not be detrimental or injurious to the general health or welfare of the community

- The noise and flicker have been shown to meet the requirements of the ordinance so as not to be detrimental or injurious to the general health or welfare of the community
- The coastal urban coastal greenway and buffer is protected with the proposed wind energy system sighting

