Land Resources and Parks Department Staff Report

County Conditional Use Permit Application # 2022-0797

Filing Date: September 21, 2022

Date of Complete Application: October 4, 2022

Hearing Date: November 14, 2022

Applicant (Agent):

Robert Haugen 817 W. Main Street, P.O. Box 128 Brownsville, WI 53006

Owner:

Michels Corporation 817 W. Main St P.O. Box 128 Brownsville, WI 53006-0128

Location

PIN #: 030-1317-0831-000; 030-1317-0831-002; 030-1317-0832-000; 030-1317-0843-000; Location: Part of the NE ¼ of the SW ¼, Section 8, Town of Lomira. The project site will be located south of the Michels Corporation outdoor storage yard and approximately 1300 feet west of N11478 County Road Y.

Applicants Request

An application for a County Conditional Use Permit under the Dodge County Land Use Code, was made by the applicant to allow the construction of an approximate 1.5-acre solar farm facility on the property described above.

Project Details

The proposed project encompasses approximately 1.56-acres and involves the installation of an access road from the Michels storage yard, 5 rows of solar panels, and a metering station. A total of approximately 2.42-acres is expected to be disturbed with this project. The approximate dimensions of the solar panel project area is 294' X 138'. A 7'8" high woven-wire deer exclusion security fence will be constructed around the perimeter of the solar farm. Entrance to the site will be from a gated gravel access road connecting to the adjacent Michels yard.

The proposed project will involve grading of the site prior to the installation of the solar panels and the construction of a service/access road. The project will include the installation of ground-mounted photovoltaic solar panels that are interconnected. The panels will absorb sunlight rays which will activate the solar cells within the panels. The solar panels convert the sunlight to direct current electricity and an inverter will transform the electricity from direct current to alternating current which will be used to power the Michels plant and/or stored for future distribution and consumption. This will be an unmanned solar farm facility. The proposed electrical generation amount from the solar farm is 492,776 KWhs. The proposed solar farm, once constructed, will be leased to WPS/WE Energies.

No wetlands or waterways are present within the project boundary. No outdoor lighting is planned at this time. Site grading activities are scheduled to begin upon permit issuance, with construction and installation of the solar panels in the spring of 2023. Final restoration of the site is expected by late summer 2023.

Erosion control measures will be constructed in place and will prevent construction erosion and runoff pollutants from leaving the site. Silt fencing will be installed along the contour to capture overland, low-

velocity, sheet flow downslope of all exposed soils in accord with the WDNR Technical Standard 1056. It is anticipated that any stormwater runoff from the panels and the site will be contained within the property lines. Erosion control practices will be maintained until 70% vegetation or greater is established. The disturbed areas will be seeded to grass and any additional measures such as erosion matting will be installed if problem areas are discovered. The foundations for the solar panels are 7' piles (C-Channel driven) are anticipated to be constructed for the foundation units. This foundation type is based on the testing that has been completed.

County Jurisdiction

The County has Zoning Jurisdiction over this site as the Town of Lomira has adopted the County's Land Use Code.

Review Criteria

1. Subsections 2.3.6.A through 2.3.6.H of the Land Use Code details procedural matters, the approval criteria and the form for the conditional use permit application. The Committee shall authorize the Land Use Administrator to issue a Conditional Use Permit (CUP) for conditional uses after review and a public hearing, provided that such conditional uses or structure are found to be in accordance with the purpose and intent of this Code and the approval criteria provided in Section 2.3.6.F and are found not to be hazardous, harmful, offensive, or otherwise adverse to the environment or the value of the area.

Land Use Code Provisions:

1. Section 3.7.2.H of the Land Use Code and ss. 91.46 Wisconsin State Statutes identifies "Utility Uses" which includes solar facilities, as a conditional use permit within the A-1 Prime Agricultural Zoning District.

Purpose Statement

The purpose of the A-1 Prime Agricultural Zoning District is to promote areas for uses of a generally exclusive agricultural nature in order to protect farmland, allow participation in the state's farmland preservation program, and accommodate changing practices in the agricultural industry, subject to appropriate standards.

Physical Features of Site

The features of the proposed construction and property that relate to the granting or denial of the conditional use permit request are as follows:

The County has Zoning Jurisdiction over this site as the Town of Lomira has adopted the County's Land Use Code. The site is located within the A-1 Prime Agricultural Zoning District.

The County has Shoreland Jurisdiction over portions of the applicant's property.

- Portions of the property are designated as wetlands.
- The proposed solar facility site lot is not designated as wetlands.

County has Floodplain jurisdiction over portions of the applicant's property.

- Portions of the property are designated as floodplain.
- The proposed solar facility site lot is not designated as floodplain.

The topography of the site is rolling with slopes ranging from 0 to 12%;

Land Use, Site: Agricultural	
	nces to the south along County Road Y and Industrial north within the Village of Brownsville to the north
Designated Archaeological Site: Yes	No ⊠
Town Recommendation: Approve 🖂	Deny No recommendation submitted

STAFF ADVISORY:

This staff advisory is only advice to the Land Resources and Parks Committee. The Committee may or may not consider the advice of the staff and decision making authority is vested in the Committee only.

The staff has reviewed the proposal for compliance with the criteria listed in Sections 2.3.6.F of the code. The staff comments are listed in Exhibit A for review by the committee. The staff has concerns regarding recycling and disposal of the solar panels when the solar farm is no longer in use. Large scale solar panel recycling programs are not prevalent at this time and waste solar panels are currently treated as e-waste and are disposed of in accord with current disposal requirements. It is the staff's position that the owners of the solar farm should be held accountable for the decommissioning and removal of a solar farm equipment and the recycling of the waste when the solar farm is no longer in use.

It is the staff's position that the project is in compliance with the applicable provisions of the Dodge County Land Use Code and the staff believes that the Committee can make the findings necessary under Section 2.3.6.F of the code that are required to approve the Conditional Use Permit for this project. If approved with the following conditions, the staff believes that the project will not have an adverse effect on the adjacent land owners, the community or the environment and the proposal will be consistent with the purpose and intent of the Code.

CONDITIONS:

- 1. The operation of the solar facility shall be conducted without offensive noise, vibration, dust, smoke, odor, glare, lighting or the risk of fire, explosion or other accident and shall not be detrimental to the public health, safety or general welfare of the immediate neighborhood or the community;
- 2. A County Land Use Permit for the construction of the access road, the filling and grading of the site and the construction of the solar facilities shall be obtained by the applicant prior to beginning construction:
- 3. The proposed solar facilities shall be constructed in compliance with all applicable local, state and federal regulatory codes;
- 4. The applicant shall submit a copy of a signed decommissioning agreement to the Department between the property owner of the solar facilities and supporting equipment and buildings detailing requirements for the decommissioning, abandonment and subsequent removal of the solar facilities. This agreement shall contain provisions binding said agreement to existing and future property owners. Decommissioning of the system shall occur in the event the project is not in use for 12 consecutive months. The decommissioning plan shall include provisions for removal of all structures and foundations, restoration of soil and vegetation and assurances that financial resources will be available to fully decommission the site.
- 5. Any significant change or expansion of the solar facilities as shown in the application dated September 21, 2022 may require that a new conditional use permit be obtained;
- 6. The decision of the Committee shall expire one year after the decision is filed with the Department unless construction has been diligently pursued, a Certificate of Zoning Compliance has been issued, the use is established, or the Conditional Use Permit is renewed, for a period not to exceed one year.
- 7. The Conditional Use Permit shall also expire upon termination of a project or if the rights granted by the permit are discontinued for 180 consecutive days.

EXHIBIT A

Staff Review Comments

The staff has reviewed the proposal for compliance with the criteria listed in Section 2.3.6.F of the code. The staff comments are as follows:

- **2.3.6.F.2** Is the project compatible with adjacent uses in terms of scale, site design, operating characteristics (hours of operation, traffic generation, lighting, noise, odor, dust, and other external impacts);
 - It is the staff's position that if the project is constructed in compliance with the development standards of the code, the proposed solar farm facility will be compatible with the adjacent uses;
- 2.3.6.F.3 Will the proposed use be significantly detrimental to the public health, safety, and welfare?
 - It is the staff's position that if the solar farm is constructed and operated in compliance with the development standards of the code, the proposal will not have a significant detrimental impact on the adjacent properties or the community:
 - Recycling and disposal of the solar panels is an area of concern. Large scale solar panel recycling
 programs are not prevalent at this time. Waste solar panels are currently treated as e-waste and are
 disposed of in accord with current disposal requirements. The owners of the solar farm should be held
 responsible for the decommissioning and removal of a solar farm and the recycling of the waste when
 the solar farm is no longer in use.
- **2.3.6.F.4** Will the project cause substantial diminution in value of other property in the neighborhood in which it is to be located:
 - It is the staff's position that if the solar farm is constructed and operated in compliance with the development standards of the code, the project will not have an adverse impact on the value of other property in the area;
- **2.3.6.F.5** Are public safety, transportation and utility facilities and services available to serve the subject property while maintaining sufficient levels of service for existing development?
 - It is the staff's position that there are adequate public facilities to serve the property;
- **2.3.6.F.6** Are there adequate assurances of continuing maintenance for the project?
 - It is the staff's position that there are adequate assurances of continuing maintenance for the project;
 - Recycling and disposal of the solar panels is an area of concern. Large scale solar panel recycling
 programs are not prevalent at this time. Solar panels are currently treated as e-waste and are
 disposed of in accord with current disposal requirements. It is the staff's position that the owners of the
 solar farm should be held responsible for the decommissioning and removal of a solar farm equipment
 and the recycling of the waste when the solar farm is no longer in use.

- **2.3.6.F.7** Will any significant adverse impacts on the natural environment be mitigated to the maximum practical extent?
 - It is the staff's position any significant adverse impacts on the natural environment during construction will be mitigated to the maximum practical extent. Recycling and disposal of the solar panels is an area of concern. Large scale solar panel recycling programs are not prevalent at this time. Solar panels are currently treated as e-waste and are disposed of in accord with current disposal requirements. It is the staff's position that the owners of the solar farm should be held responsible for the decommissioning and removal of a solar farm equipment and the recycling of the waste when the solar farm is no longer in use.
- **2.3.6.F.8** The proposed use will not be located in any hazard areas, including floodplains, floodways, etc., unless any potential danger is mitigated to the maximum extent possible, and to the satisfaction of the Wisconsin Department of Natural Resources;
 - It is the staff's position that the proposed solar facility site is not located in any hazard areas, including floodplains, floodways
- **2.3.6.F.1** Does the proposed project comply with all applicable provisions of this Code;
 - It is the staff's position that the proposed project complies with the applicable provisions of the code;

Dodge County Land Resources and Parks Committee Decision

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Applicants Request

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CONCLUSIONS OF LAW

Based on the facts presented in the application and at the public hearing the Committee concludes that:

2.3.6.F General Approval Criteria for Conditional Use Permits

Conditional Use Permits shall be approved by the Committee if they find that all of the following criteria have been met:

2.3.6.F.2 Is the project compatible with adjacent uses in terms of scale, site design and operating characteristics? (hours of operation, traffic generation, lighting, noise, odor, dust, and other external impacts);

(Yes /	If not, what measures can be taken to mitigate any potential conflicts?
6.F.3 Wil	I the proposed use be significantly detrimental to the public health, safety, and welfa

	If yes, what measures can be taken to mitigate the decrease in the value of	the properties?
	e public safety, transportation and utility facilities and services available to maintaining sufficient levels of service for existing development?	to serve the subject
(Yes /	No / Not Applicable) If not, what can be done to ensure facilities and services will be available?	
	there adequate assurances of continuing maintenance for the project? No/ Not Applicable) If no, what measures can be taken to ensure continued maintenance?	
2.3.6.F.7 Will	there be any significant adverse impacts on the natural environment that re-	quire mitigation?
(Yes /	No) If yes, what measures can be taken to mitigate the potential adverse impace environment?	ts on the
2.3.6.F.8 Is th	ne project located in any hazard areas? (floodplains, floodways, steep slopes	s, etc)
·	If yes, are there any measures that need to be taken to mitigate any potenti	al dangers?

2.3.6.F.4 Will the project cause a substantial decrease in value of other property in the neighborhood in which

it is to be located;

2.3.6.F.1 Does the proposed project comply with all applicable provisions of this Code?
(Yes / No) If not, what changes must be made to bring the project into compliance with the code?

Are any conditions for approval needed in this case to mitigate any potential adverse impacts on the adjacent properties, the environment or the community?
(Yes/No)
 The operation of the solar facility shall be conducted without offensive noise, vibration, dust, smoke, odor, glare, lighting or the risk of fire, explosion or other accident and shall not be detrimental to the public health, safety or general welfare of the immediate neighborhood or the community; A County Land Use Permit for the construction of the access road, the filling and grading of the site and the construction of the solar facilities shall be obtained by the applicant prior to beginning construction; The proposed solar facilities shall be constructed in compliance with all applicable local, state and federal regulatory codes; The applicant shall submit a copy of a signed decommissioning agreement to the Department between the property owner of the solar facilities and supporting equipment and buildings detailing requirements for the decommissioning, abandonment and subsequent removal of the solar facilities. This agreement shall contain provisions binding said agreement to existing and future property owners Decommissioning of the system shall occur in the event the project is not in use for 12 consecutive months. The decommissioning plan shall include provisions for removal of all structures and foundations, restoration of soil and vegetation and assurances that financial resources will be available to fully decommission the site. Any significant change or expansion of the solar facilities as shown in the application dated Septembe 21, 2022 may require that a new conditional use permit be obtained; The decision of the Committee shall expire one year after the decision is filed with the Department unless construction has been diligently pursued, a Certificate of Zoning Compliance has been issued, the use is established, or the Conditional Use Permit is renewed, for a period not to exceed one year. The Conditional Use Permit shall also expire upon termination of a project or if the rights granted by the permit are
Others
Does the committee believe that the Conditional Use Permit Request meets the approval criteria in Section 2.3.6.F of the County Land Use Code? (Yes / No)

Page ___ of ___

Motion by	to approve the conditional use permit request based upon the previously s.
Motion second	
Vote Dale Macheel Donna Maly Ben Priesgen Dan Siegmann Mary Bobholz – Chair	Yes No Abstain Not Present
Motion (Carried / Denied)	
ORDER AND DETERMINATION On the basis of the above findings	s of fact, conclusions of law and the record in this matter the committee
	ry approval of the conditional use permit subject to the conditions listed above Administrator is directed to issue a conditional use permit incorporating the mmittee.
	cional use permit request as proposed and the Land Use Administrator is conditional use permit incorporating the decision of this Committee.
	onal use permit request as proposed. The committee finds that the proposal following approval criteria of the code:
use permit shall become void afte approval for such permit and a co	r issued by the Committee requiring a Zoning official to issue a conditional or one year unless the applicant or appellant shall have met the conditions of anditional use permit has been issued by the Zoning official within such time, tended when so specified by the Committee.
	evoked by the Committee in accord with Section 11.4.4 of the Dodge County opportunity to be heard for violation of any of the conditions imposed.
officer, department, board or bure with the Dodge County Land Reso whom the appeal is taken within 3 and decision making body. The	ppealed by any person or their agent aggrieved by this decision or by any eau of the County, or by any affected town board. Such appeals shall be filed ources and Parks Department or the review and decision making body from 30 days after the date of written notice of the decision or order of the review County assumes no liability for and makes no warranty as to reliance on this noticed prior to expiration of this 30-day period.
If a conditional use permit is denie procedures contained in s. 59.694	ed, the applicant may appeal the decision to the circuit court under the 4(10) Wis. Stats.
Dodge County Land Resources a	nd Parks Committee
SignedChairperson	Attest Secretary
Dated:	Filed:



DODGE COUNTY LAND RESOURCES & PARKS DEPARTMENT

127 E, OAK STREET * JUNEAU, WI \$3039 PHONE: (920) 386-3700 x2 * FAX: (920) 386-3979 E-MAIL: landresources@co.dodge.wi,us

CONDITIONAL USE PERMIT APPLICATION

Application Fee: \$350 (After the Fact Application Fee - \$700)

THIS AREA FOR (OFFICE USE ONLY
Activity No.	Permit Issued Date
220797	
Application Date:	5698-0012
9-21-2022	Sanitary Permit #

Please complete page 1 and 2 of this application form and submit the application form with all of the required information listed in the "Application Checklist" for your project. PRINT OR TYPE. Use blue or black link, do not use pencil. The Dodge County Land Resources and Parks Department will not consider your application unless you complete and submit this application form, the applicable information listed in the "application checklist" for your proposed project and the application fee. Personally identifiable information on this form will not be used for any other purpose, but it must be made available to requesters under Wisconsin's open records law [s.19,31-19,39, Wis. Stats.].

(1)	NAMES & MAILING ADDRESSES		(2) PROP	PERTY DESCR	IPTION							
Applicant (Agent)		Parcel Identification	on Number (PIN)	-N								
	en, Managing Dir. of M & A	030-1317-	0831-000	and 030-	-1317-083	3-1002						
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City • State • ZipCode	51.											
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	Current Use Of Property	(Please che	ck/complete	all that apply	below)							
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☐ Single-Family R	i	☐ Two-Fami	ily Residence	☐ Mult	i-Family Resi	idence						
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DNR NOTICE: You are a	esponsible for complying with State and Federal laws concerning vetlands, takes and streams. Wetlands that are not associated	☐ Filling, Grading or Dredging in the Shoreland District										
with open water can be o	lifficult to identify. Failure to comply may result in removal or	Other: Mixed use - agricultural field and solar farm										
information, visit the Dep	ion that violates the law or other penalties or costs. For more lartment of Natural Resources Wellands Identification Web Page											
(www.dnr.state.wi.us) or	contact a Department of Natural Resources Service Center.		~	the state of	100	W						
18.	(5) CERT				7	and the second						
that I have read the DNR	y apply for a Conditional Use Permit and certify that all the informa Notice shown above. I affirm that all work performed will be done	in accordance with	n the Dodge Count	v Land Use Code :	and with all other	applicable laws						
and regulations. I hereby	authorize members of the Dodge County Land Resources and Pa	rks Department to	enter the above-de	scribed property for	or purposes of ob	olaining						
Signature //	26 44 2		Da	ate 09/15/20	022							
V	Daytime Contact Number (920)	924 _8764 (Cell Number (773) 398-8544)										
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September 19, 2022

Dodge County Land Resources & Parks Dept. 127 E. Oak Street Juneau, WI 53039

Subject:

Conditional Use Permit Application - Michels Brownsville Solar FarmParcels #030-1317-0831-000 And #030-1317-083-1002 (Town of Lomira)

Dear Sir or Madam:

On behalf of our client (Michels Corporation), Mi-Tech Services, Inc. submits this Conditional Use Permit Application for the construction of a proposed solar farm on parcels #030-1317-0831-000 and #030-1317-083-1002, in the Town of Lomira. The proposed project parcels are currently owned by Michels Corporation. Included with this submittal is the *Dodge County Conditional Use Permit Application*, Figures 1-5 depicting the project location and surrounding areas, and the specifications of the proposed construction project. The following addresses the required components of the application submittal in the order in which they are outlined in the "Application Checklist".

- 1. The Site Location Map is included as Figure 1.
- 2. Site Plan is included as Figures 2A and 2B. No future expansion of the solar farm is expected at this time. All disturbed soils will be revegetated in accordance with the WDNR Construction Stormwater Permit and the County Erosion Control Plan for the project; no additional landscaping or buffering is proposed.
- 3. Aerial photographs are included as Figures 2A and Figure 3.
- 4. Detailed Narrative of Proposed Solar Farm Project –

The project site is on parcels #030-1317-0831-000 and #030-1317-083-1002, and located directly south of the Michels Corporation yard, in the Town of Lomira, Dodge County. The parcels are landlocked with no access to nearby S. Oakland Road (CTH Y). The coordinates of the site are 43.608630 / -88.496780. The parcels are currently zoned A1 (Prime Agricultural). The proposed project encompasses approximately 1.56 acres and involves the installation of an access road from the Michels yard, 5 rows of solar panels, and a metering station.

The project parcels are owned by Michels Corporation. Parcel #030-1317-0831-000 is currently leased for agricultural production; parcel #030-1317-083-1002 is undeveloped/wooded. Upon completion of the proposed solar farm, the remainder of parcel #030-1317-0831-000 will remain in agricultural production and the remainder of parcel #030-1317-083-1002 will remain undeveloped/wooded. The approximate dimensions of the solar panel project area are 294' X 138'; a 7'-8" woven-wire deer exclusion fence will be constructed around the perimeter of the solar farm. The solar farm and fence will be entirely on parcel #030-1317-0831-000. Entrance to the solar farm is from a gated gravel access road, connecting to the adjacent Michels yard (refer to Figure 4). This access road crosses both parcels #030-1317-0831-000 and #030-1317-083-1002. No lighting is proposed for the project.



An underground electrical line will connect the solar farm to an existing Michels building in the construction yard. No sanitary facilities are present within the project area and none are proposed for the solar farm project. No hazardous waste will be produced, used or stored on the site.

- 5. Figure 4 provides an Aerial View of the proposed site and construction plan / specifications.
- 6. The proposed Michels Solar Farm project is located on two parcels currently owned by Michels Corporation; as such, a "Signed Agreement" is not applicable. See Figure 5 for Parcel Map.
- 7. A gravel access road will be constructed to connect the solar farm to the adjacent Michels yard. The gravel access road is 8088 sq. ft. and thus the project does not exceed the 20,000 sq. ft. of Impervious surfaces threshold and no County stormwater management plan is required. The project does require a WDNR Construction Site Stormwater Permit (> 1 acre ground disturbance). This WDNR permit will be applied for prior to construction.
- 8. The project disturbs approximately 1.56 acres of land surface, and thus a construction site erosion control plan is required. This Erosion Control Plan will be submitted to the County as part of the Land Use Permit application for the project
- 9. All disturbed soils will be revegetated in accordance with the WDNR Construction Stormwater Permit and the County Erosion Control Plan for the project. Based on our review of Section 7.9.2 Landscaping and buffering requirements, no additional landscaping or buffering is required nor planned for this project.
- 10. All applicable federal, state, and local permits and license that are required in connection with this project, will be obtained.

Should you have any questions or require additional information, please feel free to contact me at (715) 359-9400 ext. 5233 or via email at czelenka@mi-tech.us. Thank you for your review

Best Regards, Mi-Tech Services, Inc.

Cindy Zelenka

Cindy Zelenka Senior Environmental Specialist II

Attachments:

Dodge County Conditional Use Permit Application

Application Fee (ch. #19171)

Figure 1 Site Location Map

Figure 2A Site Map

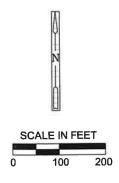
Figure 2B General Project Location and Surrounding Area Map

Figure 3 Site Aerial Map Figure 4 Construction Plan

Figure 5 Parcel Boundary Map







LEGEND

- SITE PARCEL LINE

ADJACENT PARCEL LINE

-×- PROPOSED SECURITY FENCE







LIGHTHOUSE

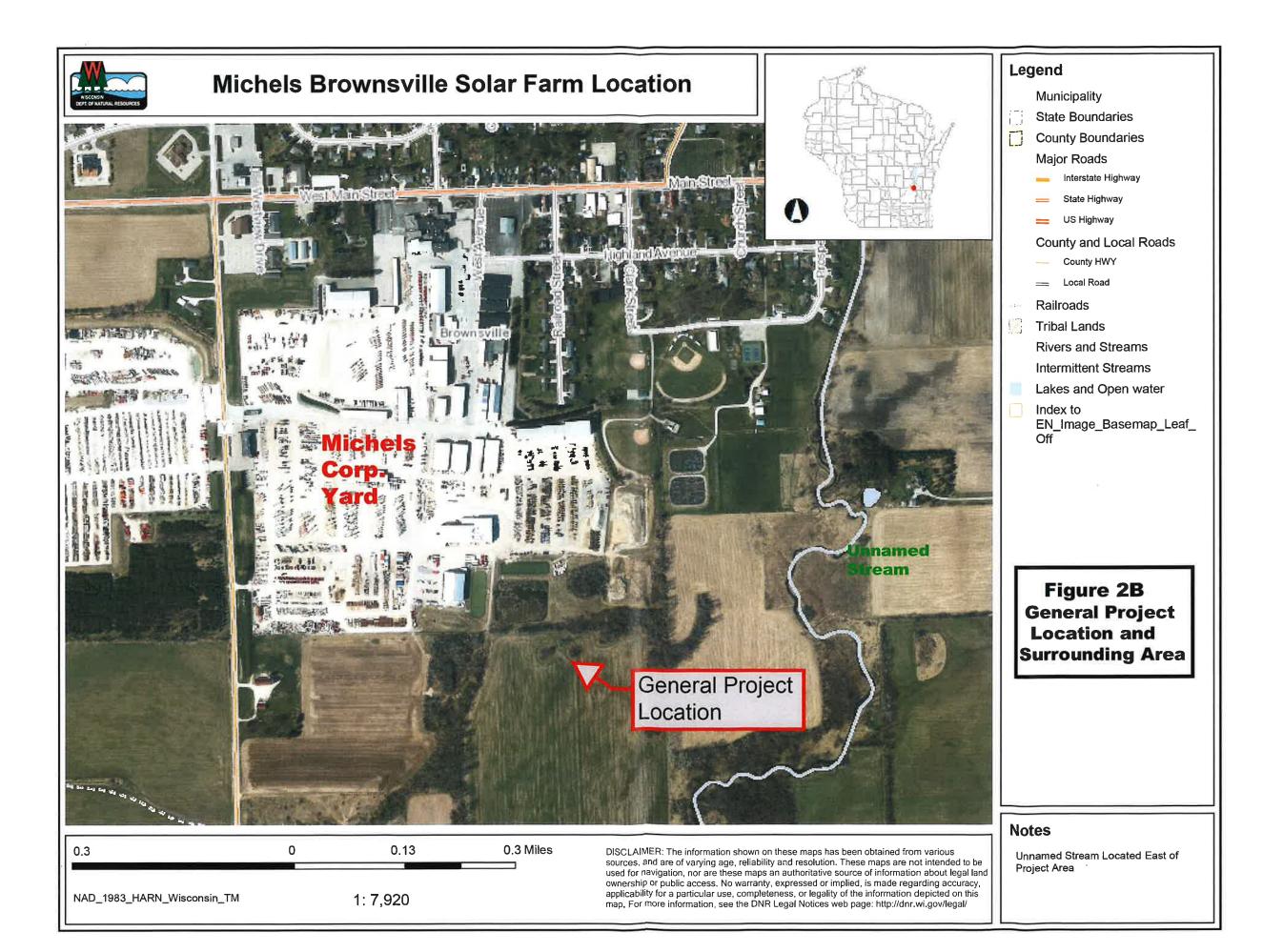
		SOL	AR
PR	OJECT	BR	LS SOLAR FARM OWNSVILLE SE COUNTY, WI
DR	AWN B	r: AL	
СН	ECKED	BY: SF	
REV	DATE	DES	CRIPTION

SHEET TITLE

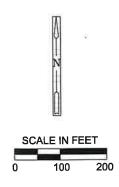
SITE MAP

SHEET NUMBER

FIGURE 2 A







LEGEND

ADJACENT PARCEL LINE
SITE PARCEL LINE
PROJECT BOUNDARY



MI-TECH SERVICES, INC. 4901 Stewart Avenue Wausau, WI 54401 (715) 359-9400 www.mi-tech.us





LIGHTHOUSE SOLAR

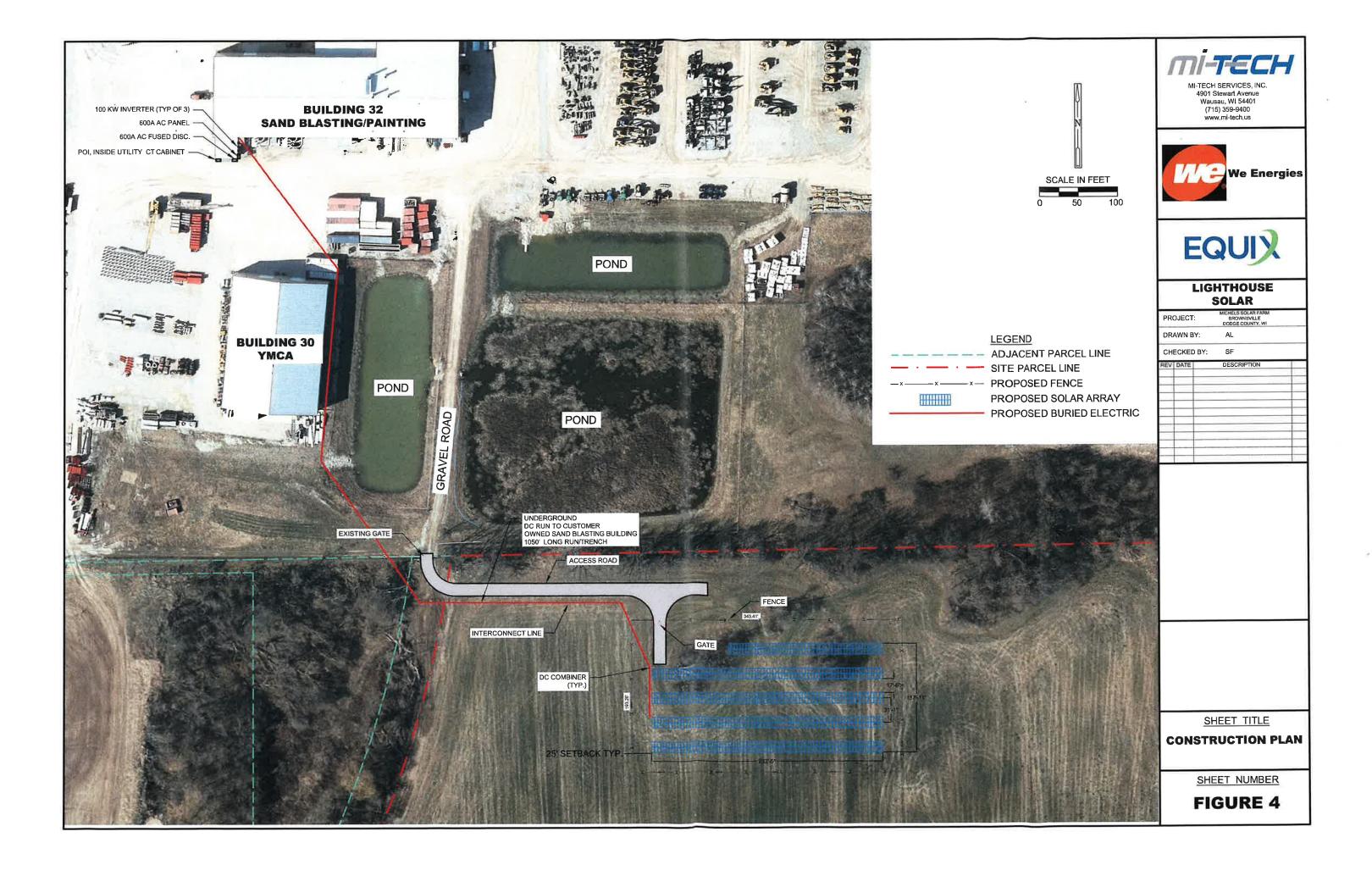
PR	OJECT:	MICHELS SOLAR FARM BROWNSVILLE DODGE COUNTY, WI	
DR	AWN BY:	AL	
СН	ECKED BY:	SF	
REV	DATE	DESCRIPTION	

SHEET TITLE

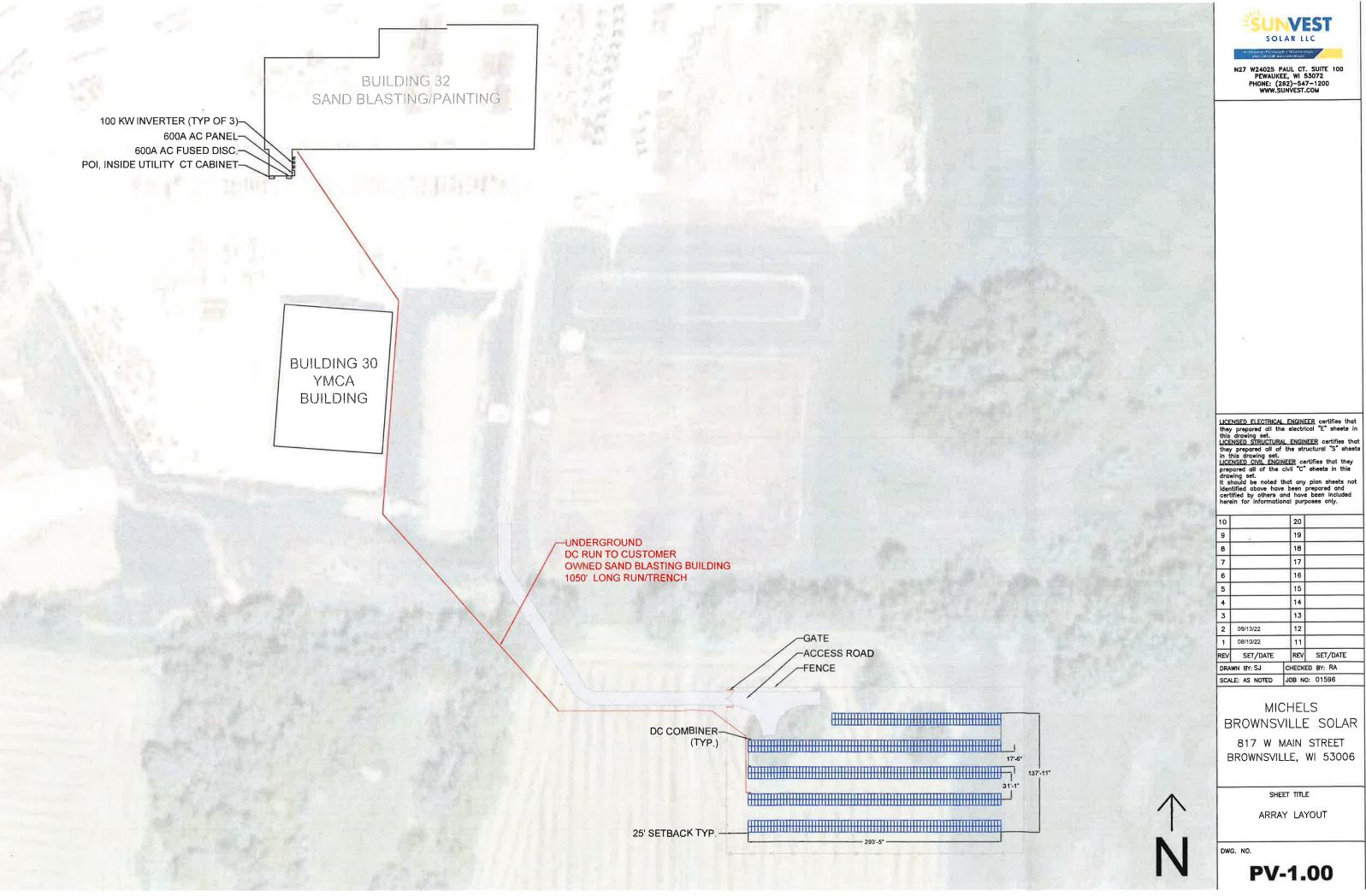
SITE AERIAL MAP

SHEET NUMBER

FIGURE 3







SUNVEST SOLAR LLC

10			20	
9	· ·		19	
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MICHELS BROWNSVILLE SOLAR

817 W MAIN STREET BROWNSVILLE, WI 53006

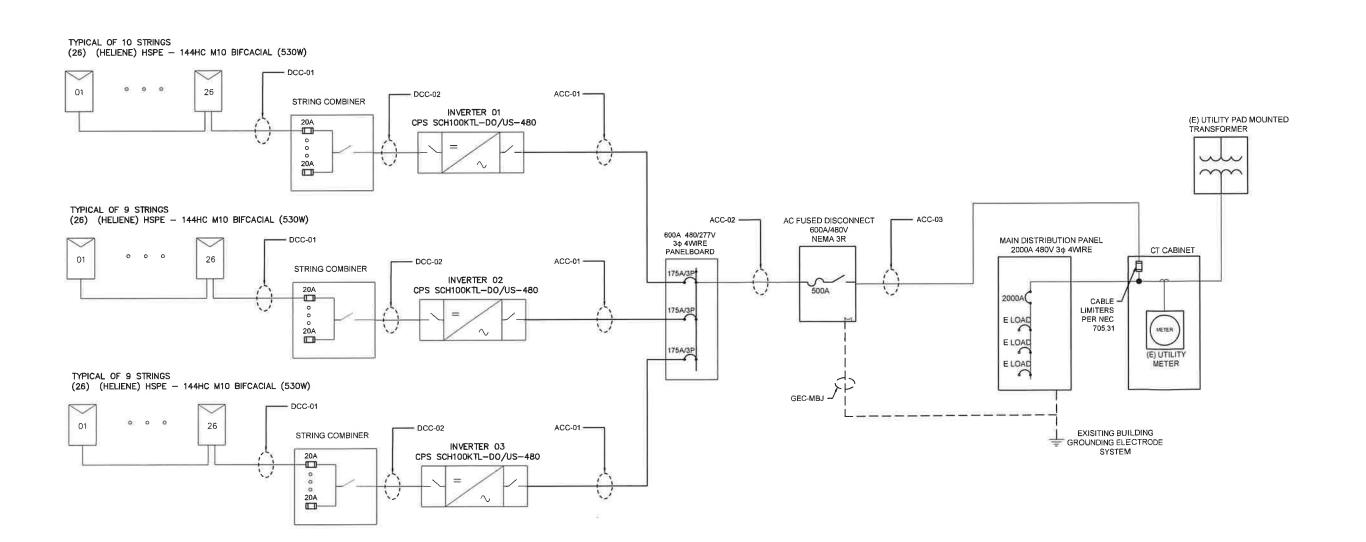
SHEET TITLE

ARRAY LAYOUT

PV-1.00

	PV SYSTEM DETAILS
ARRAY TYPE:	GROUND MOUNT FIXED TILT
DC SYSTEM SIZE:	385.84 KW DC
DC SYSTEM VOLTAGE:	1500 V
AC SYSTEM SIZE:	300 KW AC
MODULES .	(728) (HELIENE) HSPE - 144HC M10 BIFCACIAL (530W)
INVERTERS:	(3) CPS SCA100KTL-DO/US-480-UL
OPTIMIZERS:	N/A
RACKING:	TBD
CLAMPS:	N/A
AZIMUTH:	180°
ARRAY PITCH:	25°

CONDUCT	OR SCHED	ULE								CONDU	T SCHEDULE	
		PHASE						EQUIPMENT				
		CONDUCTOR					NEUTRAL	GROUNDING	EGC			
ID	SETS	QUANTITY	SIZE	INSULATION	MATERIAL*	NEUTRAL SIZE*	QUANTITY	CONDUCTOR*	QUANTITY	SIZE	TYPE	LENGTH (FT)
DCC-01	24	2	#10 AWG	PV, UL 1000V	CU	•·	2	#12 AWG B.C.W	1 per array	2.5"	SCH80	305
DCC-02	3	2	#3/0 AWG	THWN-2	CU	L	2	#6 AWG THWN-2	1	1.5"	SCH80	1050
ACC-01	3	3	#2/0 AWG	THWN-2	CU	#4 AWG THWN-2 CU	1	#6 AWG THWN -2 CU	1	2.0"	EMT	10
ACC-02	1	3	250 KCMIL	THWN-2	CU -	#2 AWG THWN-2 CU	1	#2 AWG THWN -2 CU	1	2.5"	EMT	10
ACC-03	1	3	250 KCMIL	THWN-2	CU	#2 AWG THWN-2 CU	1	N/A	0	2.5"	EMT	20
GEC-MBJ	1		#1/0 AWG	BARE	CU							25





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10		2	0	
9		1	9	
8		1	8	
7		1	7	
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MICHELS BROWNSVILLE SOLAR 817 W MAIN STREET BROWNSVILLE, WI 53006

SHEET TITLE

ONE LINE DIAGRAM

DWG. NO.

E-1.00

Bifacial Technology Enabling Additional Energy

- Heliene modules nove isserved Top Performer sorkings in several categories, from PV Evolution Labs (PV EL) independent quality evaluations
- Canadate Reputation

 Established in 2010. Helicino la recognizión

 Established in 2010. Helicino la recognizión

 In Object de la recognizión de del recognizión de la recognizión de

Manufactured Using International Quality System Standards: ISO9001

Half-Cut Design with Split Junction Box Technology

Harvest from Rear Side

1500V System Voltage Rating

World-class Quality

Liellenge fully automated manufacturing
and campute laded inspection systems
ensure litelenges sevel of product
quality and conserving

All manufacturing functions are
correspond with externational grip in
standards and an ISO 9001 certified. and Caranta Planer or nodes like. On uncurpossed outcome support to our dish its. Heliene fine become the brand of choice for many of the leading coste total installing, developers and coste total installing, developers and

Local Sales, Service and Support

- By incesting hearity in research and divelopment Hearne has been pole to tray on the cutting edge of advances in module technology and manufacturing officiently.

100kW, 1500Vdc/480Vac String Inverters for North America



CPS SCH100KTL-DO/US-480

The 100kW high power CPS three phase string inverters are designed for ground mount applications with 480Vac service voltage. The units are high performance, advanced and reliable inverters designed specifically for the North American environment and grid High efficiencies, wide operating voltages, broad temperature ranges and a NEMA Type 4X enclosure cause this inverter platform to operate at high performance across many applications. The CPS 100kW products ship with the Standard or Centralized Wire-box, each fully integrated and sepanable with AC and Colsconnects would be suffered and companied with AC and Colsconnects would be suffered and sepanable with AC and Colsconnects with AC and Colsconnects would be suffered and sepanable with AC and Colsconn

Key Features

- NFPA 70, NEC 2017 compliant
- Touch safe DC Fuse holders adds convenience and safety
- CPS FlexOM Galeway enables remote FW upgrades ■ Integrated AC & DC disconnect switches
- Copper and Aluminum compatible AC connections
- 1 MPPT with 20 fused inputs for maximum flexibility
- NEMA Type 4X outdoor rated, tough tested enclosure
- Advanced Smart-Grid features
- Full power capacity up to 45°C Generous DC/AC Inverter Load Ratios
- Separable wire-box design for fast service
- Standard 5 year warranty with extensions to 20 years



100KTL Centralized Wire-box



100KTL Standard Wire-box FC protection

Dimensions for 144HC M10 Bifacial Series Modules Electrical Data (STC)

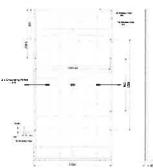
Stability & Looks

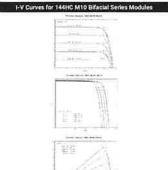
Rugged, double webbed frame design withstands wind, snow, and other mechanical stresses. Framed Glass-Backsheet aesthetic is

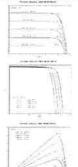
Anti-Reflective

High Reliability

No Compromise Guarantee 15 Year Workmanship Warrenty 25 Year Linear Performance Guarantee







M cer:20m Carlinac

UL Certification

remperature manning	90
Nominal Operating Cell	+45°C
Temperature (NOCT)	(±2°C)
Temperature Coefficient of P	0.36%/°C
Temperature Coefficient of V	-0.28%/°C
Temperature Coefficient of I	0 034%/°C

15 Year Manufacturer's Workmanship Warrant 25 Year Linear Power Quarantee

Fleak Rated Power	P _{my} (W)	540	530	520
Maximum Power Voltage	V ₁₁₇₀ (V)	42.32	41,94	41.55
Maximum Power Current	l _{imu} (A)	12.77	12.64	12.52
Open Circuit Voltage	V _∞ (V)	50.22	49.72	48.73
Short Circuit Current	Isc (A)	13.50	12.27	13.28
Module Efficiency *	Eff (%)	20.9	20.5	20.1
Maximum Series Fuse Rating	MF (A)	30	30	30
Power Output Tolerance		1.00.3	14	
Bifaciality Factor		70%		
STC. Maxwell fest desistore implicits	1000W-164 7	THE AM L	School	day at V

Flectrical Data (NMOT)

Maximum Power	P _{mpo} (W)	400	390	390
Maximum Power Voltage	V _{-1.0} (V)	39.19	38 58	37 96
Maximum Power Current	1_o (A)	10.21	10 11	10.01
Open Circuit Voltage	V, (V)	47 13	46 66	45 73
Short Circuit Current	Isc (A)	10.87	10 77	10 70

Solar Cefs	144 Half Cut, M10, 182mm, PERC Cells
Module Construction	Framed Glass-Backsheet
Dimensions (LxWxD)	2279 x 1134 x 40 mm (89 72 x 44 65 x 1 6 inch)
Weight	29 2 kg (64 3 lbs)
Frame	Double Webbed 15 Micron Anadized Aluminum Alloy
Glass	3 2mm Low-Iron Content, High-Transmission, PV Sular Gla Anti Reflective Coaling
Junction Box	IP-68 rated with 3 hypass diodes
Output Cables	0.3-meter Symmetrical Cables
Connectors	MC4 Compatible

UL61215, UL61730

πperature Rating	gs	Maximum Ratings							
ınal Operating Cell	+45°C	Operational Temperature	-40°C10+85						
perature (NOCT)	(±2°C)	Max System Voltage	1500V						
perature Coefficient of P _{max}	0.36%/'C	Mech. Load Test (Front)	113 psf / 5400						
perature Coefficient of V _s	-0 28%/°C	Mech, Load Test (Back)	50 ps[/2400						
perature Coefficient of I	0.034%/°C	mede cood real (block)	ab poi/ 2400						

Packaging Configuration

Modules per box	27 pieces
Modules per 53 trailer:	702 pieces

144HC M10 Bifacial Module **CPS**

Model Name OC triput Max DC Input Yottage Operating DC Input Yottage Range Start-up DC Input Yottage Power Number of MPP Tracture MPPT Voltage Range @ PF-0 99¹ Max PV Input Current (Isc >1 25) Number of DC Inputs

DC Disconnection Type
DC Surge Prolection
AC Output
Reted AC Output Power @ PF>0 99
Max AC Apparent Power?
Reted Output Vorlage Output Voltage Range³ Grid Connection Type⁴

Max AC Output Current @480Var Rated Output Frequency Output Frequency Range Power Factor Current THD @ Rated Load

Max Faul Corrent Contribution (1 Cycle RMS)
Max OCPD Rating
AC Disconnection Type
AC Surge Protection
System and Performance Topology
Max Efficiency
CEC Efficiency
Stand-by / Night Consumption
Environment
Enclosure Protoction Degree

Enclosure Protoction Degree Cooling Method Operating Temperature Range Non Operating Temperature Ra Operating Humidity Operating Albitide

Operating Attitude
Audicitie Noise
Display and Communication
User Interface and Display
Inverter Monitoring
Site Level Monitoring
Modbus Data Mapping
Remote Dispnosibles i FW Upgin
Mechanicat

vacin	igs	******	
rature	-40°C to +85°C	Mounting / Installation Angle	
je	1500V	AC Termination	
ront)	113 psf / 5400 Pa		
ack)	50 ps(/2400 Pa	DC Termination	
		Fused String Inputs	

dended Terms	10 15 and 20 Years
The cast minus he futter intermediating http://www.harge.harge.anen.e	
Title AC Apparent Flories" rating yand addist MPPT surlage range and tempera	num range of 30°C to 440 C 477°C to 4104°False 100004-20 PF +0.00
The "Output Vistage Plange" and "Output Frequency Flange" may offer execution	ig to the specific god vandoril
Who noutside/market. Data they sald be upman provedure	St. 10 10

No. of Contract

750-1450Vdc 900Vdc / 200W

CPS 5CH100KTL-DO/LI5-480

Load-rated DC switch

mole signaling) up=2 SkV In=20kA (6/20uS

100kVA (105 3kVA & PF>0 60) 423-526Vac 120 3A/126.7A 57 - 63Hz >0 99 (±0 8 udpuslable

or/remate signaling) up=2 5kV In=20kA (8/20uS)

NEMA Type 4X

Vanable speed cooling lars

-22°F to +140°F -30°C to +60°C (derating from +113°F / +45°C)

No low temp minimum to +158°F / +20°C ("Maximum D to 100% <65dBA @ 1m and 25°C

LED indicators, WFI + APP Modous RS485 CPS FlexOM (1 par 32 inverters) SunSpec / CPS Sandard / (with FlaxOM Getowar)

45 28x24 25x9 84m (1150x616x250mm) with Standard Wire-box 39 37x24 25x9 84m (1000x615x250mm) with Centralized Wire-box

15 - 90 degrees from transportal control or impled M10 Stud Type Terminal [3©] (Wire range 1/0AWG - 500kcmli CU/AL, Lugs not supplied)
Screw Clamp Terminal Block [N] (#12 - 1/0AWG CU/AL)

LII 1741-SA-2016, CSA-22 2 NO 107 1-01 JEEE 1547a 2014, FCC PART 15 IEEE 1547a-2014, CA Rule 21, ISO-NE, HECO Rule 14H Voll-RideThru, Freq-RideThru, Ramp-Rate, Specified-PF, Voll-Vor, Freq-Walt, Voll-Walt

5 Years



N27 W24025 PAUL CT. SUITE 100 PEWAUKEE, WI 53072 PHONE: (262)-547-1200 WWW.SUNVEST.COM

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prepared all of the civil "C" sheets in this drawing set. It should be noted that any plan sheets not identified above have been prepared and certified by others and have been included herein for informational purposes only. 18 17

16 15 14 3 13 2 12 09/13/22 08/10/22 11 REV SET/DATE REV SET/DATE DRAWN BY: SJ CHECKED BY: RA SCALE: AS NOTED JOB NO: 01596

MICHELS BROWNSVILLE SOLAR

817 W MAIN STREET BROWNSVILLE, WI 53006

SHEET TITLE

SPEC SHEETS

DWG. NO.

E-4.00

A WARNING

THIS PANEL HAS SECONDARY POWER SOURCE FROM PHOTOVOLTAIC SYSTEM TURN-OFF PHOTOVOLTAIC SYSTEM BREAKER PRIOR TO SERVICING PANEL

MAX AC OUTPUT CURRENT: 380,1 AMPS

MAX AC OUTPUT VOLTAGE: 480 VOLTS

LABEL PLACE AT POINT OF #1 INTERCONNECTION

A WARNING

DUAL POWER SUPPLY

SOURCES: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

LABEL PLACE AT POINT OF #2 INTERCONNECTION

A WARNING

SOLAR GENERATOR UTILITY LOCKABLE AC DISCONNECT SWITCH

AUTHORIZED PERSONNEL ONLY HIGH VOLTAGE- KEEP AWAY

LABEL PLACE AT UTILITY #3 LOCKABLE DISCONNECT

A WARNING

POTENTIAL ARC FLASH HAZARD

LABEL

#4 PLACE AT PV SWITCHBOARD

A WARNING

TURN OFF AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

AUTHORIZED PERSONNEL ONLY HIGH VOLTAGE- KEEP AWAY

LABEL #5

PLACE AT AC COMBINER PANEL

A WARNING

TURN OFF INVERTER PRIOR TO OPERATING AC DISCONNECT

HIGH VOLTAGE- KEEP AWAY

LABEL #6

PLACE AT AC DISCONNECT

A WARNING

ELECTRIC SHOCK HAZARD

IF GROUND FAULT IS INDICATED ALL NORMALLY GROUNDED CONDUCTORS MAY BE UNGROUNDED AND **ENERGIZED**

CAUTION: SOLAR ELECTRIC

SYSTEM CONNECTED

CAUTION: SOLAR CIRCUIT

LARFI

LABEL #10

LABEI #11

PLACE AT INVERTERS

LABEL PLACE ON DC DISCONNECTS AND

LABEL PLACE ON CONDUIT, JUNCTION BOXES

AND COMBINER BOXES AT EVERY 10'

WARNING

DC JUNCTION BOX

PLACE ON DC JUNCTION BOXES

A WARNING

PV ARRAY DC DISCONNECT

-ELECTRICAL SHOCK HAZARD-

-DO NOT TOUCH TERMINALS-

TERMINALS ON BOTH THE LINE AND LOAD

SIDES MAY BE ENERGIZED IN THE OPEN
POSITION

PLACE ON DC DISCONNECTS

MAXIMUM CURRENT:

A WARNING

ELECTRIC SHOCK HAZARD

DO NOT TOUCH TERMINALS TERMINALS ON THE LINE AND LOAD SIDES MAY BE **ENERGIZED IN THE OPEN POSITION**

LABEL

PLACE ON DC DISCONNECTS AND AC DISCONNECTS

A WARNING

PULL BOX

AUTHORIZED PERSONNEL ONLY HIGH VOLTAGE- KEEP AWAY

LABEI #13

PLACE AT PULL BOXES





MPD M-01

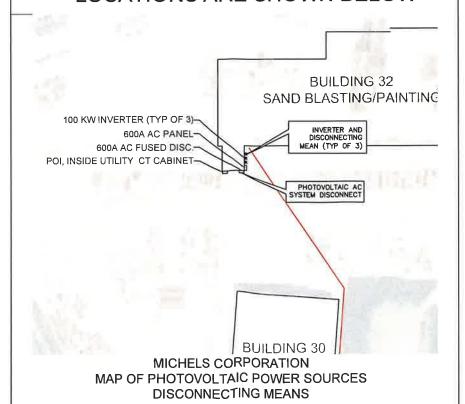
#16 PLACE AT SYSTEM PANELBOARD

PLACE AT INVERTER/DC DISCONNECT

PLACE AT COMBINER BOX

CAUTION

POWER TO THIS SITE IS SUPPLIED BY MULTIPLE SOURCES: DISCONNECT LOCATIONS ARE SHOWN BELOW



SITE DISCONNECT LOCATION PLACECARD

SHEET NOTES:

- 1. SYSTEM LABELS SHALL BE PERMANENTLY ATTACHED BY MECHANICAL MEANS OR SECURED WITH UV-RESISTANT
- 2. MATERIALS USED IN THE CONSTRUCTION OF THE LABELS SHALL BE UV RESISTANT.
- 3. ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS, THAT ARE IN OTHER THAN DWELLING OCCUPANCIES, AND ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS, THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT. (NEC 110.16)
- 4. ALL INTERACTIVE SYSTEM(S) POINTS OF INTERCONNECTION WITH OTHER SOURCES SHALL BE MARKED AT AN ACCESSIBLE LOCATION AT THE DISCONNECTING MEANS AS A POWER SOURCE AND WITH THE RATED AC OUTPUT CURRENT AND THE NOMINAL OPERATING AC VOLTAGE: (NEC 690.54)
- 5. DIRECT-CURRENT PV POWER SOURCES SHALL BE PERMANENTLY I ARELED PER NEC 690.53
- 6. PROVIDE ALL ADDITIONAL LABELS AS REQUIRED PER NEC, NESC, AND OTHER APPLICABLE CODES AND STANDARDS

KEYED NOTES:

- 1. PROVIDE 9"X3" ENGLISH/SPANISH ELECTRICAL WARNING SIGN AT EACH OF THE SITE ENTRANCES AND EVERY 200' ALONG THE FENCE
- 2. PROVIDE SITE DISCONNECT LOCATION PLACECARD AT EACH OF THE SITE ENTRANCES. MARK "YOU ARE HERE" AT EACH OF THE LOCATIONS ON THE MAP



N27 W24025 PAUL CT. SUITE 100 PEWAUKEE, WI 53072 PHONE: (262)-547-1200 WWW.SUNVEST.COM

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20 19 18 17 16 15 14 12 09/13/22 08/10/22 REV SET/DATE SET/DATE CHECKED BY: RA DRAWN BY: SJ SCALE: AS NOTED JOB NO: 01596

MICHELS BROWNSVILLE SOLAR 817 W MAIN STREET BROWNSVILLE, WI 53006

SHEET TITLE

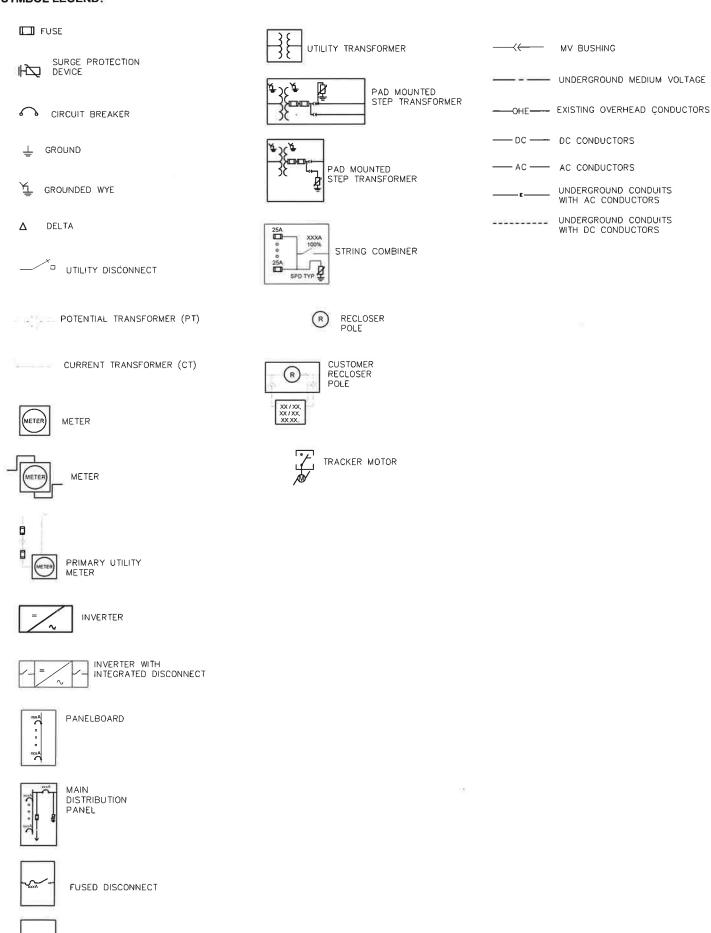
NEC LABELS

DWG. NO.

E-5.00

SYMBOL LEGEND:

NON FUSED DISCONNECT



GENERAL NOTES:

1. GENERAL REQUIREMENTS:

- 1.1 THE WORK TO BE DONE UNDER THIS PROJECT INCLUDES PROVIDING ALL EQUIPMENT, MATERIALS, LABOR AND SERVICES NOT INCLUDED IN THE B.O.M, AND PERFORMING ALL OPERATIONS FOR COMPLETE AND OPERATING SYSTEMS. ANY WORK NOT SPECIFICALLY COVERED BUT NECESSARY TO COMPLETE THIS INSTALLATION, SHALL BE PROVIDED. ALL EQUIPMENT AND WIRING TO BE NEW AND PROVIDED UNDER THIS CONTRACT UNLESS OTHERWISE NOTED.
- 1.2 ENTIRE INSTALLATION, INCLUDING MATERIALS, EQUIPMENT AND WORKMANSHIP, SHALL CONFORM TO THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE (NEC) AS WELL AS ALL APPLICABLE LAWS AND REGULATIONS AND REGULATORY BODIES HAVING JURISDICTION OVER THIS WORK:
- 1.3 THE TERM "FURNISH" SHALL MEAN TO OBTAIN AND SUPPLY TO THE JOB SITE. THE TERM "INSTALL" SHALL MEAN TO FIX IN POSITION AND CONNECT FOR USE. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL. THE TERM "CONTRACTOR" SHALL MEAN ELECTRICAL CONTRACTOR.
- 1.4 ONLY WRITTEN CHANGES AND/OR MODIFICATIONS APPROVED BY THE ENGINEER, CONSULTING ENGINEER OR OWNER'S REPRESENTATIVE WILL BE RECOGNIZED.
- THE ELECTRICAL CONTRACTOR SHALL SUBMIT, FOR THE ENGINEER'S APPROVAL, DETAILED SHOP DRAWINGS OF ALL EQUIPMENT SPECIFIED.
- 1.6 CONTRACTOR SHALL COORDINATE WITH SPECIFICATIONS PROVIDED BY OTHER TRADES.
- PROVIDE OPERATING AND MAINTENANCE MANUALS, PER SPECIFICATIONS, AND GIVE INSTRUCTIONS TO USER FOR ALL EQUIPMENT AND SYSTEMS PROVIDED UNDER THIS CONTRACT AFTER ALL ARE CLEANED AND
- 1.8 KEEP PREMISES FREE FROM RUBBISH. REMOVE ALL ELECTRICAL RUBBISH FROM SITE.
- 1.9 ALL WORK SHALL BE INSTALLED CONCEALED UNLESS OTHERWISE NOTED.
- 1.10 THE WORK SHALL INCLUDE ALL PANELS, DEVICES, FEEDERS AND BRANCH CIRCUIT WIRING AS REQUIRED FOR THE DISTRIBUTION SYSTEM INDICATED AND CALLED FOR ON THE DRAWINGS, REQUIRED BY SPECIFICATIONS AND AS NECESSARY FOR COMPLETE FUNCTIONAL SYSTEMS PRESENTED AND INTENDED.
- 1.11 THE CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR, TOOLS, EQUIPMENT, CONSUMABLES AND SERVICES REQUIRED FOR OBTAINING, DELIVERY, INSTALLATION, CONNECTION, DISCONNECTION, REMOVAL, RELOCATION, REPAIR, REPLACEMENT, TESTING AND COMMISSIONING OF ALL EQUIPMENT AND DEVICES INCLUDED IN OR NECESSARY FOR THE WORK, AS APPLICABLE. THIS INCLUDES SCAFFOLDING, LADDERS, RIGGING, HOISTING, ETC.
- 1.12 ELECTRICAL WORK SHALL INCLUDE ALL REQUIRED CUTTING, PATCHING AND THE FULL RESTORATION OF WALL AND FLOOR STRUCTURE AND SURFACES. ALL EQUIPMENT, WALLS, FLOORS, ETC., DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER, AT THE CONTRACTORS EXPENSE.
- 1.13 BEFORE SUBMITTING HIS BID, THE CONTRACTOR SHALL FULLY AQUAINT HIMSELF/HERSELF WITH THE JOB CONDITIONS AND DIFFICULTIES THAT WILL PERTAIN TO THE EXECUTION OF THIS WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN
- 1.14 THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING UTILITIES.
- 1.15 UPON COMPLETION OF THE ELECTRICAL WORK, THE CONTRACTOR SHALL TEST THE COMPLETE ELECTRICAL SYSTEM FOR SHORTS, GROUNDS, AND PROPER OPERATION, IN THE PRESENCE OF THE OWNER'S
- 1.16 UPON COMPLETION OF WORK, THE CONTRACTOR SHALL CLEAN AND ADJUST ALL EQUIPMENT AND LIGHTING AND TEST SYSTEMS TO THE SATISFACTION OF OWNER AND ENGINEER. RESULTS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- 1.17 THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS OF FINISHED CONSTRUCTION PRIOR TO FABRICATION AND INSTALLATION OF FIXTURES AND EQUIPMENT.
- 1.18 EXACT ROUTING OF CONDUITS AND "MC" CABLES SHALL BE DETERMINED IN THE FIELD.
- 1.19 IF THE OWNER AND/OR HIS REPRESENTATIVE CONSIDERS ANY WORK TO BE INFERIOR, THE RESPECTIVE CONTRACTOR SHALL REPLACE SAME WITH CONTRACT STANDARD WORK WITHOUT ADDITIONAL CHARGE. ALL WORK SHALL BE DONE IN A NEAT, WORKMANLIKE MANNER, LEFT CLEAN AND FREE FROM DEFECTS, AND
- 1.20 THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AS SHOWN ON THE DRAWINGS AND/OR AS SPECIFIED. ALL MATERIALS SHALL BE NEW, AND BEAR THE UL LABEL. ALL WORK SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER.
- 1.21 DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC, AND SHALL BE FOLLOWED AS CLOSELY AS CONDITIONS ALLOW TO COMPLETE THE INTENT OF THE CONTRACT. THE DRAWINGS AND SPECIFICATIONS COMPLIMENT ONE ANOTHER, AND WHAT IS SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS, AND VICE VERSA, IS TO BE INCLUDED IN THE SCOPE OF WORK.
- 1.22 ALL EQUIPMENT CONNECTIONS SHALL BE INSTALLED PER APPLICABLE SEISMIC REQUIRMENTS.
- 1.23 ENGINEER WILL MAKE A FINAL INSPECTION WITH THE OWNER AND CONTRACTOR AND WILL NOTIFY THE CONTRACTOR IN WRITING OF ALL PARTICULARS IN WHICH THIS INSPECTION REVEALS THAT THE WORK IS INCOMPLETE OR DEFECTIVE. THE CONTRACTOR SHALL IMMEDIATELY TAKE SUCH MEASURES AS ARE NECESSARY TO COMPLETE SUCH WORK OR REMEDY SUCH DEFICIENCIES.
- 1.24 THE CONTRACTOR SHALL PERFORM ALL EXCAVATION, TRENCHING AND BACKFILL REQUIRED FOR ELECTRICAL WORK. BACKFILL SHALL BE SUITABLE MATERIAL PROPERLY COMPACTED TO 95% DENSITY IN EACH LAYER OF SIX (6) INCH DEPTH. CONDUIT SHALL BE MINIMUM 30" BELOW FINISHED GRADE.



N27 W24025 PAUL CT. SUITE 100 PEWAUKEE, WI 53072 PHONE: (262)-547-1200 WWW.SUNVEST.COM

ICENSED FLECTRICAL ENGINEER certifies that they prepared all the electrical "E" sheets in this drawing set. this drawing set. LICENSED STRUCTURAL ENGINEER certifies that

LICENSED STRUCTURAL ENGINEER certifies that they prepared all of the structural "S" sheets in this drawing set.

LICENSED CIVIL ENGINEER certifies that they prepared all of the civil "C" sheets in this drawing set.

It should be noted that any plan sheets not identified above have been prepared and certified by others and have been included herein for informational purposes only.

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> MICHELS BROWNSVILLE SOLAR

817 W MAIN STREET BROWNSVILLE, WI 53006

SCALE: AS NOTED JOB NO: 01596

SHEET TITLE

GENERAL NOTES AND SYMBOLS

DWG NO.

G-1.00

GENERAL NOTES:

2. PROJECT COORDINATION:

- 2.1 THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS AT THE SITE AND NOTIFY THE OWNER OF ANY DISCREPANCIES, PRIOR TO COMMENCING WITH THE WORK.
- 2.2 THE CONTRACTOR SHALL REVIEW AND COORDINATE WITH THE DOCUMENTS OF ALL TRADES.
- 2.3 THE CONTRACTOR SHALL FURNISH A SCHEDULE INDICATING HIS PORTION OF TIME, WITHIN THE OVERALL SCHEDULE, REQUIRED TO COMPLETE THE WORK, IN CONJUNCTION WITH ALL TRADES. ALL WORK THAT MAY AFFECT OPERATION OF BUILDING SYSTEMS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.
- 2.4 SHUT DOWN OF POWER SHALL BE COORDINATED WITH THE OWNER, ARCHITECT AND PROJECT MANAGER AT LEAST 14 WORKING DAYS PRIOR TO SHUT DOWN. SHUT DOWNS LONGER THAN 2 DAYS SHALL BE COORDINATED WITH THE ABOVE PERSONNEL AT LEAST ONE MONTH IN ADVANCE. TEMPORARY POWER FOR CONSTRUCTION SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR FOR SHUT DOWNS OVER 2 DAYS.
- 2.5 ALL CONDUITS AND DEVICE BOXES SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR, INCLUDING ALL TECHNOLOGY CONDUITS AND BOXES.
- 2.6 EXACT LOCATIONS OF OUTLETS AND EQUIPMENT SHALL BE COORDINATED WITH ARCHITECTURAL AND MILLWORK PLANS. ALL OUTLET AND EQUIPMENT LAYOUTS SHALL BE VERIFIED AND COORDINATED WITH WORK OF OTHER TRADES.
- 2.7 PROVIDE TEMPORARY LIGHTING AND POWER IN ACCORDANCE WITH ARTICLE 305 OF THE NEC. TEMPORARY LIGHTING FIXTURES IN UNFINISHED AREAS SHALL REMAIN CONNECTED UNTIL REMOVAL IS REQUESTED BY THE CONTRACTOR.
- 2.8 THE CONTRACTOR SHALL CONTACT THE BUILDING MANAGER TO OBTAIN A COPY OF THE GENERAL REQUIREMENTS AND/OR CONDITIONS TO BE USED FOR THIS PROJECT.

3. PROTECTION OF WORK:

3.1 EFFECTIVELY PROTECT ALL MATERIALS AND EQUIPMENT FROM ENVIRONMENTAL AND PHYSICAL DAMAGE UNTIL FINAL ACCEPTANCE. CLOSE AND PROTECT ALL OPENINGS DURING CONSTRUCTION. PROVIDE NEW MATERIALS AND EQUIPMENT TO REPLACE ITEMS DAMAGED.

4. WARRANTIES:

- 4.1 ALL MATERIALS AND EQUIPMENT SHALL BE GUARANTEED IN WRITING FOR A MINIMUM OF ONE YEAR AFTER FINAL ACCEPTANCE BY OWNER.
- 4.2 WORKMANSHIP SHALL BE GUARANTEED IN WRITING FOR A MINIMUM OF 5 YEARS AFTER FINAL ACCEPTANCE BY OWNER
- 4.3 OBTAIN AND DELIVER TO THE OWNER'S REPRESENTATIVE ALL GUARANTEES AND CERTIFICATES OF COMPLIANCE.

5. PERMITS:

5.1 CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTION FEES FOR ELECTRICAL WORK.

RACEWAYS:

- 6.1 ALL CONDUIT SHALL BE MINIMUM SIZE OF 1/2" FOR POWER CIRCUITS AND CONTROL CIRCUITS EXCEPT WHERE FLEXIBLE CONDUIT IS CALLED FOR ON PROJECT DOCUMENTS. ALL EXTERIOR EXPOSED CONDUIT SHALL BE PVC. ALL UNDERGROUND, IN SLAB OR UNDER SLAB SHALL BE SCH. 40 PVC, CHANGE TO SCH. 80 PVC CONDUIT BEFORE EXITING OUT OF UNDERGROUND SECTIONS. EMT IS ALLOWED IN INTERIOR DRY LOCATIONS WHERE NOT SUBJECT TO DAMAGE.
- 6.2 ALL FLEXIBLE CONDUIT IN WET OR DRY AREAS SHALL BE LIQUID TIGHT CONDUIT. NONMETALLIC FLEXIBLE CONDUIT IS SPECIFICALLY PROHIBITED.
- 6.3 CONDUIT SHALL BE RUN AT RIGHT ANGLES AND PARALLEL TO BUILDING LINES, SHALL BE NEATLY RACKED AND SECURELY FASTENED. JUNCTION BOXES SHALL BE PROVIDED WHERE REQUIRED TO FACILITATE INSTALLATION OF WIRES.
- 6.4 ALL CONDUIT AND ELECTRICAL EQUIPMENT SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN AN APPROVED MANNER.
- 6.5 ALL EMPTY RACEWAYS SHALL BE FURNISHED WITH A 200 LB. TEST NYLON DRAG
- 6.6 ARRANGEMENT OF CONDUIT AND EQUIPMENT SHALL BE AS INDICATED, UNLESS MODIFICATION IS REQUIRED TO AVOID INTERFERENCES.
- 6.7 ALL RACEWAY AND WIRING SHALL BE CONCEALED IN FINISHED AREAS. RACEWAY IN MECHANICAL ROOMS, BASEMENTS AND CRAWL SPACES MAY BE SURFACE MOUNTED.
- 6.8 FOR CONDUITS CROSSING EXPANSION JOINTS, PROVIDE EXPANSION FITTINGS FOR SIZE 1-1/4", AND LARGER. PROVIDE SECTIONS OF FLEXIBLE CONDUIT WITH GROUNDING JUMPERS FOR SIZES 1" AND SMALLER.
- 6.9 THE CONTRACTOR SHALL SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS WITH APPROVED FIRE RATED SEALANT. ALL PENETRATIONS THROUGH ALL WALLS AND FLOORS SHALL BE SEALED. FOR ALL SLAB PENETRATIONS THE METHOD, DEPTHS AND LOCATIONS SHALL BE PRE—APPROVED BY THE BUILDING ENGINEER PRIOR TO THE START OF WORK.
- 6.10 THE CONTRACTOR SHALL INSTALL DETECTABLE UNDERGROUND TAPES FOR THE PROTECTION, LOCATION AND IDENTIFICATION OF UNDERGROUND CONDUIT INSTALLATION.
- 6.11 EXACT ROUTING OF CONDUITS AND CABLES SHALL BE DETERMINED IN FIELD.
- 6.12 ALL PENETRATIONS THROUGH FLOORS SHALL BE FIRE STOPPED AND SEALED WITH APPROVED SEALANT.
- 6.13 ELECTRICAL RACEWAY CONNECTIONS TO VIBRATING EQUIPMENT AND MACHINERY, SHALL BE MADE WITH FLEXIBLE LIQUID TIGHT METALLIC CONDUIT.
- 6.14 SECURE ALL SUPPORTS TO BUILDING STRUCTURE UTILIZING TOGGLE BOLTS IN HOLLOW MASONRY, EXPANSION SHIELDS OR INSERTS IN CONCRETE AND BRICK. MACHINE SCREWS IN METAL, BEAM CLAMPS IN FRAMEWORK AND WOOD SCREWS IN WOOD. NAILS, RAWL PLUGS AND WOOD PLUGS ARE NOT PERMITTED. WHERE REQUIRED BY STRUCTURE, PROVIDE THRU BOLTS AND FISH PLATES. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO BUILDING LINES.
- 6.15 DO NOT RUN RACEWAYS CLOSER THAN 6 INCHES WHEN PARALLEL TO HOT WATER OR STEAM PIPES. WHEN CROSSING WATER OR STEAM PIPES CROSS A MINIMUM OF 3 INCHES ABOVE. IF CROSSING BELOW IS UNAVOIDABLE, PROVIDE DRIP SHIELDS EXTENDING 6 INCHES BEYOND THE WATER OR STEAMPIPE. BOXES INSTALLED IN PROXIMITY TO WATER OR STEAM PIPE SHALL BE RATED NEMA 4X.

7. BOXES:

7.1 INTERIOR JUNCTION BOXES SHALL BE SHEET STEEL. EXTERIOR JUNCTION BOXES SHALL BE NONMETALLIC, WITH SCREW COVERS. BOXES SHALL BE SUPPORTED INDEPENDENTLY OF CONDUITS.

8. WIRING:

- 3.1 ALL WIRE SHALL BE MADE OF COPPER WITH INSOLATION SUITABLE FOR THE APPLICABLE ENVIROMENT AND VOLTAGE. CONTRACTOR SHALL GET APPROVAL FOR ANY OTHER WIPE TYPE
- 8.2 UNDER NO CIRCUMSTANCES SHALL FEEDERS BE SPLICED.
- 8.3 ALL ELECTRICAL TERMINAL TEMPERATURE RATINGS ASSUMED TO BE 75°C UNLESS SITE CONDITIONS REQUIRE OTHERWISE.
- 8.4 WIRE SIZES SHALL BE INCREASED WHERE NECESSARY TO LIMIT AC VOLTAGE DROP TO 1.5% TOTAL FROM INVERTER TO POINT OF COMMON COUPLING

9. GROUNDING:

- 9.1 PROVIDE A COMPLETE EQUIPMENT GROUND SYSTEM FOR THE ELECTRICAL SYSTEM AS REQUIRED BY ARTICLE 250 AND 690, OF THE NEC, AND AS SPECIFIED HEREIN.
- 9.2 ALL BRANCH CIRCUITS AND FEEDERS FOR POWER WIRING SHALL CONTAIN A COPPER GROUND WIRE. NO FLEXIBLE METAL CONDUIT OF ANY KIND OR LENGTH SHALL BE USED AS THE EQUIPMENT GROUNDING CONDUCTOR.

10. MECHANICAL SYSTEMS POWER:

- 10.1 DISCONNECT SWITCHES SHALL BE HEAVY DUTY, QUICK MAKE, QUICK BREAK TYPE, ENCLOSED IN A HEAVY SHEET METAL ENCLOSURE WITH HINGED INTERLOCKING COVER, IN PROPER NEMA RATED ENCLOSURES. FUSED OR NON-FUSED AS REQUIRED. DISCONNECT SWITCHES SHALL BE PROVIDED BY CONTRACTOR, EXCEPT AS NOTED ON DRAWINGS.
- 10.2 THE RATING FOR DISCONNECT SWITCHES SHALL BE THE SAME AS, OR GREATER THAN, THE PROTECTIVE DEVICE SERVING THE EQUIPMENT.
- 10.3 A STRUT FRAME SHALL BE PROVIDED AT ALL LOCATIONS WHERE STRUCTURE WILL NOT ADEQUATELY SUPPORT EQUIPMENT, OR FOR FREESTANDING EQUIPMENT.

11. PANEL BOARDS:

- 11.1 PANELBOARDS: SWITCHING UNITS SHALL BE 3 PHASE, 4 WIRE CIRCUIT BREAKER TYPE UNLESS OTHERWISE NOTED. BUS BARS SHALL BE HARD DRAWN COPPER, MINIMUM 98% CONDUCTIVITY, AND SILVER OR TIN-PLATED JOINTS. CABINETS SHALL BE GALVANIZED SHEET STEEL BACK BOX, WITH DOOR AND TRIM AND LAPPED AND WELDED CORNERS. HARDWARE SHALL BE CHROME-PLATED WITH FLUSH LOCK/LATCH HANDLE ASSEMBLY (UP TO 48 IN. HIGH DOORS) OR VAULT HANDLE, LOCK AND 3-POINT CATCH (LARGER THAN 48 IN. HIGH DOORS). HINGES SHALL BE SEMI-CONCEALED, 5-KNUCKLE STEEL WITH NONFRERROUS PINS, 180-DEG OPENING, LOCATED A MAXIMUM 26 IN. ON CENTERS. PROVIDE DOOR IN-DOOR CONSTRUCTION. MINIMUM GUTTER SPACES FOR LIGHTING PANELS SHALL BE 5- BOTTOM. DIRECTORY HOLDER SHALL BE METAL FRAME WITH CLEAR PLASTIC, TRANSPARENT COVER.
- 11.2 PROVIDE A NEW TYPE WRITTEN CIRCUIT DIRECTORY FOR EACH PANEL AFFECTED BY THIS PROJECT.
- 11.3 WHEREVER POSSIBLE, PANELBOARDS SHALL BE RECESSED IN WALL. SURFACE MOUNTED PANELBOARDS SHALL BE MOUNTED ON A PLYWOOD BACKBOARD. PLYWOOD SHALL BE MOUNTED ON TOP OF GYMPSUM BOARD. PLYWOOD SHALL BE PAINTED ON ALL SIDES AND EDGES. COORDINATE WITH OWNER FOR COLOR.
- 11.4 PROVIDE LIGHTNING SURGE PROTECTION FOR MAIN SWITCHBOARD OR MAIN SERVICE PANEL BOARD. PROVIDE GROUNDING OF SURGE DEVICE PER THE NEC.
- 11.5 CONTRACTOR IS RESPONSIBLE FOR BALANCING LOADS ON ALL PHASES AND MAY ALTER ASSIGNMENT OF CIRCUITS FOR BALANCING PHASES.
- 11.6 CIRCUIT SCHEDULES ARE INTENDED TO REPRESENT THE GENERAL WIRING NEEDS OF THE EQUIPMENT SERVICED FROM THE PANEL. THE EXACT CIRCUIT ARRANGEMENT WILL BE DETERMINED BY PANEL SHOP DRAWING AND ARRANGEMENT WILL BE DETERMINED BY PANEL SHOP DRAWING AND PANELS ACTUALLY FURNISHED.

12. IDENTIFICATION:

- 12.1 PROVIDE BLACK PHENOLIC IDENTIFICATION PLATES, WITH WHITE LETTERS ON ALL ELECTRICAL EQUIPMENT FURNISHED IN THIS CONTRACT. ATTACH WITH SUITABLE ADHESIVE.
- 12.2 INSTALL NAMEPLATES ON ALL MAJOR EQUIPMENT, INCLUDE STARTERS, TRANSFORMERS, PANELBOARDS, DISCONNECT SWITCHES AND OTHER ELECTRICAL BOXES AND CABINETS INSTALLED UNDER THIS CONTRACT.
- 12.3 APPLY CABLE/CONDUCTOR IDENTIFICATION MARKERS ON EACH CABLE AND CONDUCTOR IN EACH BOX, ENCLOSURE OR CABINET.

13. RECORD DRAWINGS:

- 13.1 THE CONTRACTOR SHALL SUBMIT SIX (6) COPIES OF SHOP DRAWINGS. THE APPROVAL OF SHOP DRAWINGS SHALL ONLY BE CONSTRUED TO APPLY TO THE GENERAL LAYOUT AND CONFORMANCE TO THE DESIGN CONCEPT OF THE PROJECT AND FOR THE COMPLIANCE WITH THE GENERAL REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL RETAIN THE RESPONSIBILITY FOR ANY DEVIATIONS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- 13.2 PROVIDE SHOP DRAWINGS FOR THE LIGHTING FIXTURES, PANEL BOARDS, CIRCUIT BREAKERS, WIRING DEVICES, FIRE ALARM DEVICES AND SEALS FOR FIRE AND WATER STOPPING.
- 13.3 DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN A RECORD SET OF INSTALLATION PRINTS. HE SHALL NEATLY AND CLEARLY RECORD ON THESE PRINTS ALL DEVIATIONS FROM THE CONTRACT DRAWINGS IN SIZES, LOCATIONS AND DETAILS.
- 13.4 UPON PROJECT COMPLETION, THE CONTRACTOR SHALL COMPLETE THE MARK UP OF ALL PROJECT DRAWINGS TO RECORD INSTALLED CONDITIONS.
- 13.5 REPRODUCIBLE "RECORD" DRAWINGS PREPARED IN CAD FORMAT SHALL BE PROVIDED AS INSTALLED CONDITIONS OF THE WORK. A FULL SIZE PRINT OUT OF THE "RECORD" DRAWING FILE SHALL BE PROVIDED AFTER COMPLETION OF THE INSTALLATION.
- 13.6 UPON COMPLETION AND ACCEPTANCE OF WORK, THE CONTRACTOR SHALL FURNISH WRITTEN INSTRUCTIONS AND EQUIPMENT MANUALS AND DEMONSTRATE THE PROPER OPERATIONS AND MAINTENANCE OF ALL EQUIPMENT AND APPARATUS FURNISHED UNDER THIS CONTRACT.



N27 W24025 PAUL CT. SUITE 100 PEWAUKEE, WI 53072 PHONE: (262)—547—1200 WWW.SUNVEST.COM

LICENSED ELECTRICAL ENGINEER certifies that they prepared oil the electrical "E" sheets in this drawing set.

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MICHELS
BROWNSVILLE SOLAR
817 W MAIN STREET
BROWNSVILLE, WI 53006

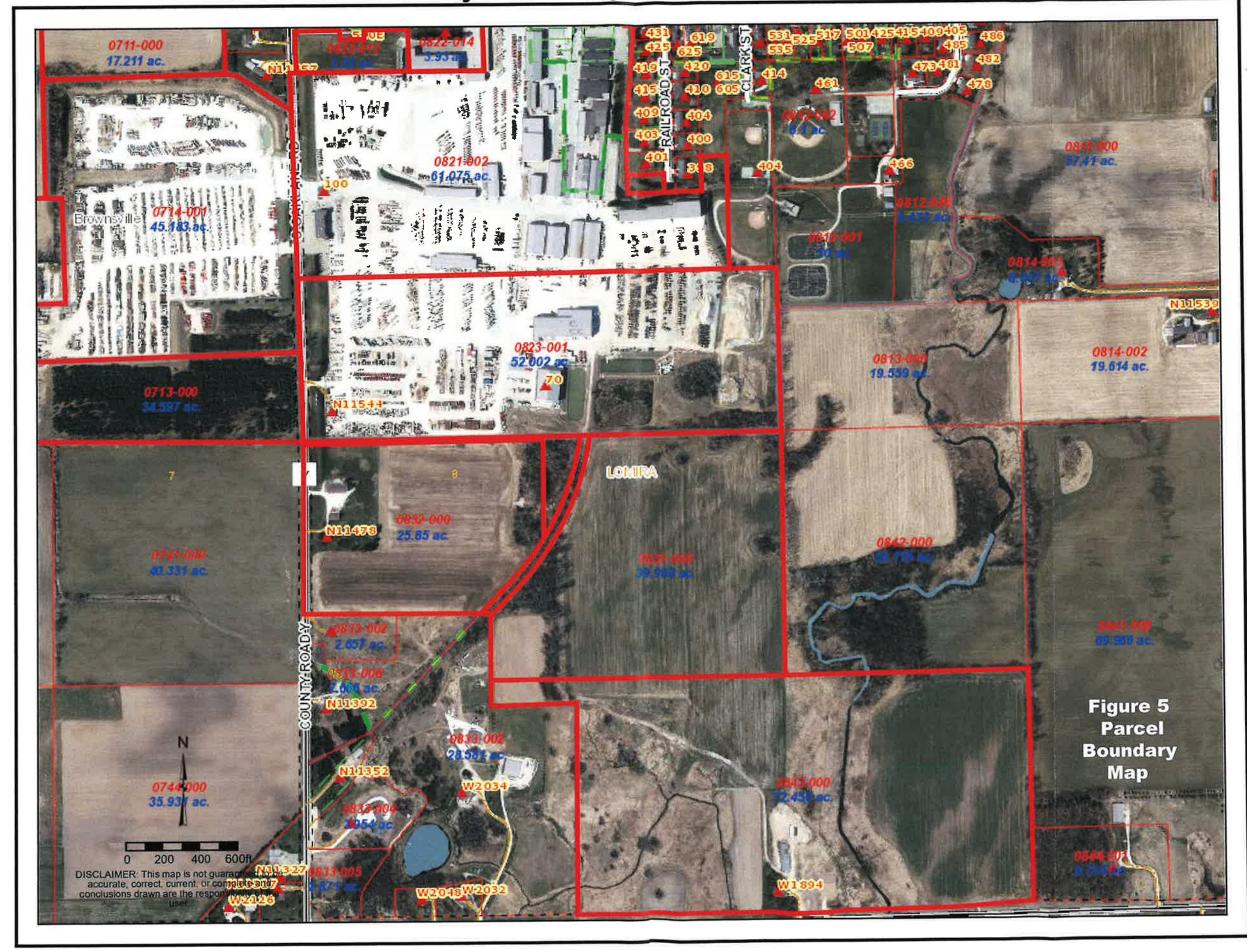
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GENERAL NOTES
AND SYMBOLS

DWG. NO.

G-2.00

Parcels Owned by Michels Corporation are Outlined in Thick Red Lines







September 29, 2022

Dodge County Land Resources & Parks Dept. 127 E. Oak Street Juneau, WI 53039

Subject:

Dodge County Land Use Permit Application - Michels Brownsville Solar Farm

Parcels #030-1317-0831-000 And #030-1317-083-1002 (Town of Lomira)

Mi-Tech Services, Inc. #12297

Dear Sir or Madam:

On behalf of our client (Michels Corporation), Mi-Tech Services, Inc. submits this Land Use Permit Application for the construction of a proposed solar farm at the Michels Corporation (Michels) property in Brownsville, Wisconsin. Included with this submittal is the Dodge County Land Use Permit Application, included with Attachment A and the Storm Water Pollution Prevention Plan (SWPPP) included as Attachment B.

Project Description

The project site is on parcels #030-1317-0831-000 and #030-1317-083-1002, and located directly south of the Michels Corporation yard, in the Town of Lomira, Dodge County. The parcels are landlocked with no access to nearby S. Oakland Road (CTH Y). The coordinates of the site are 43.608630 / -88.496780. The parcels are currently zoned A1 (Prime Agricultural). The proposed project encompasses approximately 1.56 acres and involves the installation of an access road from the Michels yard, 5 rows of solar panels, and a metering station.

Both project parcels are owned by Michels Corporation. The proposed project will be primarily on Parcel #030-1317-0831-000, which is currently leased for agricultural production; parcel #030-1317-083-1002 is a smaller, more narrow, and undeveloped/wooded parcel. Upon completion of the proposed solar farm, the remainder of parcel #030-1317-0831-000 will remain in agricultural production and the remainder of parcel #030-1317-083-1002 will remain undeveloped/wooded. The approximate dimensions of the solar panel project area are 294' X 138'; a 7'-8" woven-wire deer exclusion fence will be constructed around the perimeter of the solar farm. The solar farm and fence will be entirely on parcel #030-1317-0831-000.

Entrance to the solar farm is from a gated gravel access road, connecting to the adjacent Michels yard. The gravel access road will be constructed to connect the solar farm to the adjacent Michels yard, crossing both parcels. The gravel access road is 8,088 sq. ft. and thus the project does not exceed the 20,000 sq. ft. of Impervious surfaces threshold and therefore, no County stormwater management plan is required for this portion of the project. The project does require a WDNR Construction Site Stormwater Permit (> 1 acre ground disturbance). The WDNR permit will be applied for prior to construction.

An underground electrical line will connect the solar farm to an existing Michels building in the construction yard. No sanitary facilities are present within the project area and none are proposed for the solar farm project. No hazardous waste will be produced, used or stored on the site, and no lighting is planned.



Supporting Documentation

A review of Page 2 of the Land Use Application was completed. Mi-Tech determined that two of the nine items are applicable to this project. They include:

<u>Item #7</u> – This project involves the grading and disturbing of more than 2,000 square feet of land. As such, Worksheet No. 6 (Erosion Control Supplemental Information) was completed and is included with the *Land Use Permit Application* in **Attachment A.** The *Storm Water Pollution Prevention Plan* (SWPPP) is included as **Attachment B.**

<u>Item #9</u> – This project involves excavation and grading work. A County *Conditional Use Permit* (CUP) was submitted to Dodge County on September 22, 2022. In response, Mr. Joe Giebel, Code Administration Manager, indicated via email on September 26, 2022, that the CUP submittal was incomplete. On September 29, 2022, Mi-Tech submitted an Addendum to the CUP submittal with the requested information. A copy of the CUP and Addendum submittals will be provided upon request.

Permit Application Fee

On September 28, 2022, Mi-Tech submitted pages 1-2 of the Land Use Permit Application electronically to Ms. Karen Boyd, Dodge County, so that Ms. Boyd could generate an invoice for the permit application fee of \$1,850.00. The fee will be paid directly to Dodge County from the Mi-Tech Services office in Fond du Lac, WI.

Closing

Should you have any questions or require additional information, please feel free to contact me at (715) 359-9400 ext. 5233 or via email at czelenka@mi-tech.us. Thank you for your review

Best Regards, Mi-Tech Services, Inc.

Cindy Zelenka

Cindy Zelenka Senior Environmental Specialist II

Attachments

Attachment A - Land Use Permit Application and Worksheet No. 6 Erosion Control Plan Contents Attachment B – Storm Water Pollution Prevention Plan

cc:

Mr. Robert Haugen - Michels Corporation

Mr. Mark Miller - Equix, Infrastructure, Inc.

Ms. Stephanie Finamore - Mi-Tech Services, Inc.

Attachment A Land Use Permit Application and Worksheet No. 6

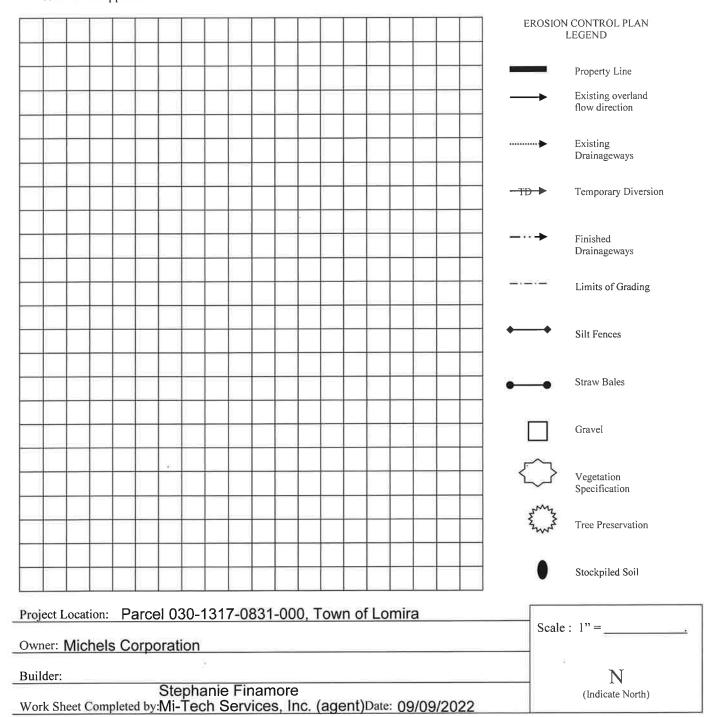
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Worksheet No. 06 Erosion Control Plan Contents

According to Chapter 7 of the Dodge County Land Use Code, a soil erosion control plan needs to be submitted and approved prior to beginning construction or land disturbing activity of any kind in those areas where the soil erosion control provisions of the Land Use Code are enforced. This erosion control plan worksheet is provided to assist you in meeting this requirement.

Instructions:

- 1. Complete this plan by filling in the requested information, completing the site diagram and marking the appropriate boxes on the inside of this form. Give consideration to potential erosion that may occur before, during, and after grading.
- 2. Submit this erosion control plan along with the applicable Dodge County Land Use Permit application and the applicable fees to Dodge County Land Resources and Parks Department, Administration Building, 127 East Oak Street, Juneau, WI 53039 for review and approval.



Completed	Not Applicable	EROSION CONTROL PLAN CONTENTS Site Characteristics
		(Check the appropriate boxes below and complete the site diagram with necessary information.)
		Name, address, daytime phone number of the person(s) charged with installing and maintaining the best management practices of the code.
\square		Scaled drawing of the site showing the following information:
		North arrow, scale and property boundary. Indicate the name of the adjacent street or roadway.
\square		Delineate the proposed land disturbance area.
\square		Location of existing and proposed buildings, roads, access drives, culverts, trees and other structures within 50 feet of the proposed land disturbance.
		Location of existing ditches, drainageways, streams, rivers, lakes, wetlands or wells.
		The approximate steepness and direction of slopes <u>before</u> the proposed land disturbance and <u>after</u> the final grading.
\square		Overland runoff (sheet flow) coming onto the site from adjacent areas.
		EROSION CONTROL PRACTICES TO BE USED
		A Description and location of all temporary best management practices proposed to be used to minimize off-site impact during the construction phase shall be included in the plan.
\square		A Description and location of all temporary best management practices proposed to be used to stabilize the site within 3 days following construction.
		Location of temporary soil storage piles Note: Soil storage piles should be placed behind a sediment fence, a 10 foot wide vegetative strip, or should be covered with a tarp or should be located more than 25 feet from any downslope road or drainageway.
		Location of gravel access drive(s). Note: Gravel drive should have 2 to 3 inch aggregate stone laid at least 7 feet wide and 6 inches thick. Drives should extend from the roadway 50 feet or to the house foundation (whichever is less).
\square		Location of sediment controls (filter fabric fence, straw bale fence or 10-foot wide vegetative strips) that will prevent eroded soil from leaving the site.
		Location of diversions. Note: although not specifically required by code, it is recommended that concentrated flow (drainageways) be diverted (re-directed) around disturbed areas. Overland runoff (sheet flow) from adjacent areas greater than 10,000 square feel should also be diverted around disturbed areas.
		Location of practices that will be applied to control erosion on steep slopes (greater than 12% grade). Note: Such practices include maintaining existing vegetation, placement of additional sediment fences, diversions, and re-vegetation by sodding or by seeding with use of erosion control mats.
		Location of practices that will control erosion in areas of concentrated runoff flow. Note: Unstabilized drainageways, ditches, diversions, and inlets should be protected from erosion through use of such practices as in-channel fabric or straw bale barriers, erosion control mats, staked sod, and rock rip-rap. When used, a given in-channel barrier should not receive drainage from more than two acres of unpaved area, or one acre of paved area. In-channel practices should not be installed in perennial streams (streams with year-round flow.)
	\square	Location of other planned practices not already noted.

_	nned	Management Strategies
Nanned 🗸	☐ Not Planned	(Indicate management strategy by checking the appropriate box:)
		Temporary stabilization of disturbed areas. Note: It is recommended that disturbed areas and soil piles left inactive for extended periods of time be stabilized by seeding (between April 1 st and September 15 th), or by other cover, such as tarping or mulching.
\bigvee		Permanent stabilization of site by re-vegetation or other means as soon as possible (lawn establishment).
		Indicate re-vegetation method: Seed ☑ Sod ☐ Other ☐
		Expected date of permanent re-vegetation: Summer 2023
		Re-vegetation responsibility of: Builder ☑ Owner / Buyer □
		Is temporary seeding or mulching planned if site is not seeded by September 15, or sodded by November 1? Yes 🔽 No 🗌
	\square	Use of downspout and / or sump pump outlet extensions. Note: It is recommended that flow from downspouts and sump pump outlets be routed through plastic drainage pipe to stable areas such as sod or pavement.
		Trapping sediment during dewatering operations. Note: Sediment-laden discharge water from pumping operations should be ponded behind a sediment barrier until most of the sediment settles out.
		Proper disposal of building material waste so that pollutants and debris are not carried off-site by wind or water.
Ø		 Maintenance of erosion control practices. Sediment will be removed from behind sediment fences and barriers before it reaches a depth that is equal to half the barrier's height. Breaks and gaps in sediment fences and barriers will be repaired immediately. Decomposing straw bales will be replaced (typical bale life is three months). All sediment that moves off-site due to construction activity will be cleaned up before the end of the next workday. All sediment that moves off-site due to storm events will be cleaned up before the end of the next workday. Gravel access drives will be maintained throughout construction. All installed erosion control practices will be maintained until the disturbed areas they protect are stabilized.

FOR MORE INFORMATION

For more assistance on plan preparation and plan requirements, refer to Section 7.9 of the Dodge County Land Use Code, and the DNR Wisconsin Construction Site Best Management Technical Standards.

The Dodge County Land Use Code is available through the Dodge County Land Resources and Parks Department, Administration Building, 127 East Oak Street, Juneau, WI 53039, (920) 386-3700 and is available on the Dodge County Website: www.co.dodge.wi.us/landresources/

The DNR Wisconsin Construction Site Best Management Practice technical standards can be downloaded from the internet: dnr.wi.gov/runoff/stormwater

LOCAL ORDINANCES

Check with the town, city or village for any local erosion control ordinances including shoreland zoning requirements. In addition, check with the Department of Natural Resources for additional erosion control and stormwater management plan requirements that may be required at the state or federal level.

EROSION CONTROL REGULATIONS

Dodge County Land Use Code

CONSTRUCTION SITE EROSION CONTROL – Unless otherwise exempted or waived, erosion control plan approval under Chapter 7 of the County Land Use Code shall be required, and all construction site erosion control provisions of the Code shall apply to all land disturbing activity that meets any of the following criteria:

- Disturbs 2,000 square feet or more of total land surface area:
- Involves excavation or filling, or a combination of excavation and filling, in excess of 400 cubic yards of material:
- Disturbs 100 lineal feet of road ditch, grass waterway, or other land area where surface drainage flows in a defined channel;
- Involves excavation or filling, or a combination of excavation and filling, on slopes of 12 percent or greater; or
- Other land disturbing activities, including the installation
 of access drives, that the Committee determines to have
 a high risk of soil erosion or water pollution, or that may
 have a significant adverse impact on environmentally
 sensitive areas.

EXEMPTIONS - The following sites shall be exempt from the construction site erosion control provisions of the County Land Use Code:

The construction of one- and two-family residential buildings on lots outside subdivisions, except those on slopes of 12 percent or greater, those sites with soil depths to bedrock of 60 inches or less, and on those sites with high water table;

Please note: Contact the town, city or village for the local erosion control ordinances that are in effect for all 1 and 2-family construction projects.

FILLING, GRADING LAGOONING OR

DREDGING - In addition to the construction site erosion control regulations listed here, a County Conditional Use Permit is required for filling, grading, lagooning or dredging of any area which is within 300 feet horizontal distance of a navigable water body and which has surface drainage toward the water and on which there is:

- Filling of more than 500 feet of any wetland that is contiguous to the water;
- Filling or grading on slopes of 20 percent or more;
- Filling or grading of more than 1,000 square feet on slopes 12-20 percent or greater;
- Filling or grading of more than 2,000 square feet on slopes of 12% or less.

APPLICATION PROCESS – The following information shall be submitted to the County Land Use Administrator:

- A completed Land Use Permit or Shoreland Land Use Permit Application and Conditional Use Permit Application if required;
- The applicable fees;
- An erosion control plan in accordance with the Land Use Code requirements;
- The erosion control plan must show:
 - Location of the dwelling, other buildings, wells, surface waters and disposal systems on the site with respect to the property lines;
 - 2. Direction of all slopes on the site;
 - 3. Location and type of erosion control measures.

MAINTENANCE

 Sediment controls must be maintained until the site is stabilized by mulching and seeding, sodding or landscaping;

FOR MORE INFORMATION

 Dodge County Land Resources and Parks Department, Administration Building, 127 East Oak Street, Juneau, WI 53039, (920) 386-3700

STORMWATER MANAGEMENT CONTROL PLAN - Unless otherwise exempted or waived, erosion control plan approval under Chapter 7 of the County Land Use Code shall be required, and all stormwater management provisions of the Code shall apply to all land development activity that meets any of the following criteria:

- Divides an existing parcel into 5 separate parcels of 5 acres each or less in total area within a common plan of development;
- Involves the construction of any new public or private roads;
- Results in the addition of impervious surfaces of 20,000 square feet or greater in total area, including smaller individual sites that are part of a common plan of development; or
- Other land development activities, including access drives, that the Land Use Administrator determines may significantly increase downstream runoff volumes, flooding, soil erosion, water pollution or property damage, or significantly impact an environmentally sensitive area.

If a stormwater management plan is required, contact Dodge County Land Resources and Parks Department for application requirements.

Attachment B Storm Water Pollution Prevention Plan (SWPPP)



STORM WATER POLLUTION PREVENTION PLAN FOR THE MICHELS - BROWNSVILLE SOLAR FARM DODGE COUNTY, WI

September 2022

Prepared for:
Michels Corporation
PO Box 128
817 Main Street
Brownsville, WI 53006

Prepared by:
Mi-Tech Services, Inc.
Wausau, WI
Project # 12297

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1.0 INTRODUCTION

1.1 Purpose

This document shall serve as the Storm Water Pollution Prevention Plan (the Plan) for the Michels Corporation Solar Farm project in Brownsville, Dodge County, Wisconsin. The proposed project encompasses approximately 1.56 acres and involves installation of an access road from the Michels yard, 5 rows of solar panels, and a metering station. A security fence will surround the utility for this unmanned facility. The proposed solar farm, once constructed, will be leased to WPS/WE Energies. See **Appendix A** for detailed maps depicting the site location and project area.

Mi-Tech Services is submitting this Plan to the State of Wisconsin to obtain storm water permit coverage. Once the permit is issued, a copy of the permit coverage letter will be available while construction is ongoing.

The object of this plan is to 1) review soil erosion and sedimentation control management practices; and 2) establish and implement the appropriate construction performance standards to minimize or limit the discharge of pollutants carried by storm water runoff in accordance with the State of Wisconsin Chapter NR 216.

The erosion control section describes temporary erosion control practices to be used during construction activities. Erosion control practices during construction will be installed, inspected, and maintained throughout the duration of the construction sequence. Erosion control measures will include, as applicable; slope erosion control devices (silt fence or straw wattle), inlet protection, ditch checks, seeding, mulching, and/or dust control. Regular inspections will occur throughout the duration of the construction sequence to ensure proper installation of erosion control devices is maintained.

2.0 EXISTING CONDITIONS

2.1 Location

The proposed project site is located in T13N, R17E, Section 8, Town of Lomira, Dodge County, Wisconsin on parcels #030-1317-0831-000 and #030-1317-083-1002 and is located directly south of the Michels Corporation yard at 817 Main Street in Brownsville (**Appendix A**). The coordinates of the site are 43.608630 / -88.496780; (43° 36' 31.8" N) (88° 29' 48.3" W).

2.2 Current Land Use

Michels Corporation is a large diverse construction and utility contractor with dozens of locations throughout North America. The corporate office is located on Main Street in Brownsville, WI where the company was started in the late 1950's. In addition to the corporate office, the Brownsville location also includes a large construction equipment and machinery yard. Michels currently owns numerous contiguous parcels in Brownsville including the two for the proposed solar farm project. The larger parcel for the proposed project is currently used for agricultural production; the second smaller parcel is a narrow strip of undeveloped/wooded land. Both parcels are zoned A1 (Prime Agricultural). Refer to **Appendix A** for project location maps and **Appendix B** for existing physical conditions.

2.3 Project Topography

The topography in the project area is gently rolling, with elevations ranging from 986 to 1002 feet above mean sea level (MSL). Elevation is highest at the central portion of the proposed project, and lowest in the southeastern area of the solar farm. See **Appendix B** for the Topographic Map.

The proposed project will involve grading of the site prior to the installation of the solar panels. The proposed elevations will range from 1000' near the northcentral portion of the project with gradual downward sloping to about 990' to the east/southeast and about 992' toward the west. The proposed slope for the project area will be an average of 3%. See **Appendix C** for proposed contours.

2.4 Project Soils

Soil Map Unit Distributions

According to the NRCS Soil Survey, the project encounters two soil units. K values of the soil units range from .32 to .43 and are moderately susceptible to sheet and rill erosion from water. See soils Information included in **Appendix B**, which includes a map of the soil series on the project site and a list of map units, along with their soil erodibility (K values) for the Revised Universal Soil Loss Equation Version 2 (RUSLE2).

Soil Unit	% of Project Area	K Value
Lamartine silt loam (LmB) 2 to 6 percent slopes	22.4%	Moderate (0.32)
LeRoy silt loam (LrC2) 6 to 12 percent slopes, eroded	77.6%	Moderate (0.43)

Note: The higher the K value the more susceptible the soil is to sheet and rill erosion from water

2.5 Floodplain

The project site is in Zone X, area of minimal chance of flood hazard.

3.0 PROJECT ACTIVITIES

3.1 Project Contacts

Project Owner: Michels Corporation	PO Box 128 817 Main Street Brownsville, WI 53006-0128 Attn: Robert Haugen, Managing Director of M&A and Private Capital Investments Phone: (920) 924-8764 Email: rhaugen@michels.us
Solar Farm Design: SunVest Solar, LLC	N27 W24025 Paul Court, Suite 100 Pewaukee, WI 53072 Attn: Roger Aranda Phone: (262) 547-1200 Email: raranda@sunvest.com

Site Design: Equix Infrastructure, Inc.	46 S. Rolling Meadows Drive. Fond du Lac, WI 54937 Attn: Mark Miller Phone: 920-924-3690 Email: mmiller@equixinc.com
Stormwater Design: Mi-Tech Services, Inc.	4901 Stewart Avenue Wausau, WI 54476 Attn: Stephanie Finamore, Sr. Environmental Scientist Phone: (715) 359-9400 Email: sfinamor@mi-tech.us

3.2 General Description of Project

The proposed project encompasses approximately 1.56 acres and involves the installation of an access road from the Michels yard, 5 rows of solar panels, and a metering station. The parcels are landlocked with no access to nearby S. Oakland Road (CTH Y).

Upon completion of the proposed solar farm, the remainder of parcel #030-1317-0831-000 will remain in agricultural production and the remainder of parcel #030-1317-083-1002 will remain undeveloped/wooded. The approximate dimensions of the solar panel project area are 294' X 138'; a 7'-8" woven-wire deer exclusion fence will be constructed around the perimeter of the solar farm. The solar farm and fence will be constructed entirely on parcel #030-1317-0831-000. Entrance to the solar farm is from a gated gravel access road, connecting to the adjacent Michels yard. The access road will cross both parcels #030-1317-0831-000 and #030-1317-083-1002. No lighting is proposed for the project. See **Appendix C** for the Proposed Project Plan Sheets.

3.3 Solar Power Explained

Solar energy involves the use of electromagnetic waves emitted from the sun. The waves are harnessed to generate clean, renewable energy which can provide power to homes and businesses. The process is not only efficient, reliable, and renewable, but is also eco-friendly since it does not produce greenhouse gas emissions or pollution which is typically generated from fossil fuels.

Solar Photovoltaic Systems (commonly called PV cells or solar cells) are the powerhouse behind a PV system. Each cell consists of two thin silicon sheets similar to a battery; one is positively charged and the other is negatively charged. An electrical current is produced when the two layers are joined and exposed to sunlight. A solar panel contains many of the "battery-like cells" to maximize the generation of electricity.

The Michels Brownsville Solar Farm Project will include the installation of ground-mounted photovoltaic (PV) solar panels that are interconnected. The panels will absorb sunlight rays which will activate the solar cells within the framed glass-backsheet constructed panels. It is there that photons (particles of energy), are converted into electrons. The electrons pass through the cells of the solar panel setting loose electrons in motion. The solar panels convert the sunlight to direct current (DC) electricity. An inverter will transform the electricity from direct current to alternating current (AC), which will be used to power the Michels plant and/or stored for future distribution and consumption.

3.3 Project Timeline

Site grading activities are scheduled to begin upon permit issuance, with construction and installation of the solar panels in Spring 2023; final restoration is expected by late summer 2023.

3.4 Area of Site Disturbance

The project area will encompass 1.56 acres across the two parcels. A total of approximately 105,263 square feet (2.42 acres) is expected to be disturbed. This calculation is based on the area within the limits of the silt fence.

No wetlands are waterways are present within the project boundary (Appendix B).

3.5 Construction Sequence

The following summarizes the main construction activities anticipated for this project:

- A. Construct sediment control BMP's.
- B. Install stabilized construction entrances.
- C. Clear and grub as needed, strip and stockpile topsoil.
- D. Grade project site.
- E. Install project facilities (solar panel areas, access road, fence, etc.).
- F. Place salvaged topsoil and seed.
- G. Temporarily stabilize any disturbed areas as soon as possible, or if construction will halt for 14 days or longer.
- H. Complete final stabilization (seed and mulch) within 5 calendar days after final grading or final earth change has been reached on any portion of the site.
- I. Remove temporary erosion and sediment control BMP's when the site has reached final stabilization.

3.6 Nearest Receiving Waters

Following is a list of the waters of that may receive runoff from the Project:

Unnamed Stream located ~900' east from project area (Appendix B).

Erosion control measures will be in-place to prevent construction erosion and runoff pollutants from leaving the site.

3.7 Impaired Waterways

There are no known impaired waterways associated with this project.

4.0 SOIL EROSION SEDIMENTATION CONTROL

The construction methods, sequencing, and scheduling activities described in this document were chosen specifically to minimize the amount and duration of disturbance to topsoil and existing vegetative cover. Erosion prevention and sediment control BMPs will supplement the construction practices to manage construction runoff. Natural regeneration of vegetation is expected to occur relatively rapidly in the project area due to the minimally invasive construction practices and the timing of installation. Sediment and erosion control BMPs used will be concentrated in and near environmentally sensitive areas such as streams.

The need for BMPs in non-environmentally sensitive areas is expected to be minimal as natural revegetation is anticipated; however, additional practices will be installed if problem areas are discovered during the construction site inspection. All sediment control measures will be in-place prior to any installation operations and will be maintained until the revegetation of the disturbed area is complete.

The goals of BMP implementation are to:

- A. Prevent or minimize soil movement from the project route into wetlands, streams, culverts, storm-water inlets, road side ditches, neighboring properties, and public roadways.
- B. Reach "Final Stabilization" as quickly as possible. Final stabilization has been reached when soil-disturbing activities have been completed and a uniform vegetative cover with a density of 70 percent or greater has been established.

A list of the BMPs and initial quantities is provided below. Initial BMP locations are illustrated on the sediment and erosion control drawings in **Appendix D**.

	BEST MANAGEMENT PRACTICES	
Category	ВМР	WDNR Technical Standard
Temporary Erosion Control	Limit Disturbance Temporary Seeding	1059
Temporary Sediment Control	Silt Fence	1056
Permanent Erosion Control	 Re-vegetation (grass) – entire project area Mulch – as needed Erosion Mat – as needed 	1059 1058 1052
Permanent Sediment Control	None proposed	
Pollution Prevention Practices	 Preventive Maintenance – throughout construction Petroleum Project Storage and Handling – throughout construction Spill Prevention and Response – throughout construction 	

4.1 Construction Site Soil Loss and Sediment Discharge Calculation

Calculations are attached and are included in Appendix C.

4.2 Erosion Control

Seed and Mulch:

- A. Stabilization shall be actively implemented as soon as possible after construction and final grading in areas where erosion and/or sediment transport is likely, such as steep slopes, highly erosive soils, within 50 feet of waterbodies or wetlands, etc.
- B. When land disturbance has temporarily ceased, and will not resume for 14 days or more, all exposed soils shall be stabilized as soon as possible.
- C. All exposed soil areas located in the normal wetted perimeter of a ditch or swale shall be stabilized within 24 hours of inactivity within 200' of downstream waterways. If culverts are present, the inlet shall be protected with ditch checks such as filter logs.
- D. Final stabilization shall commence when land disturbance ceases and final grade has been reached on any portion of the site. Finished portions of the site shall be stabilized within 5 calendar days after final grading or final earth change has been reached.
- E. Type 1 Hydro mulch or erosion mat to be used in areas that are permanent seeded.

4.3 Sediment Control

Construction Entrance/Exit:

Stabilized temporary construction access points will not be necessary for this project.

Culverts and Ditches:

No culverts or ditches are present in the vicinity of the project.

Stockpile Protection:

Any soil or dirt storage piles containing more than 10 cu. yds. of material should not be located with a down slope drainage length of less than 25' to a roadway or drainage channel. If remaining for 14 days or more, the piles shall be stabilized by mulching, vegetative cover, tarps, or other means. Erosion from piles which will be in existence for less than 14 days shall be controlled by placing straw bales or silt fence barriers around the pile.

Dewatering Activities:

No dewatering activities are anticipated for this project.

Silt Fence Installation:

Silt fencing shall be installed along the contour to capture overland, low-velocity, sheet flow downgradient of all exposed soils, and prior to discharge to surface waters. WDNR Technical Standard 1056 shall be followed.

5.0 PREVENTIVE MAINTENANCE

All equipment shall be maintained according to manufacturer's specifications. The following provides a general description of equipment maintenance and repair activities, and/or polices, which will occur at Contractor's project yard.

- A. Engines and gearboxes will be inspected and fully serviced as needed to eliminate leaking seals, fuel lines, and gaskets. Leaks that develop during operation will be contained by drip pans, absorbents, or other acceptable means, until company maintenance personnel repair the problem. In cases where continued operation may cause uncontainable fluid losses, the equipment will be removed from service until the problem is corrected.
- B. Vehicles and equipment will be inspected regularly for leaking fluids such as oil, antifreeze, etc.
- C. Engine oil changes may only be completed at the project's construction yard. Maintenance is completed with adequate containment pans and absorbent material to provide for drips and spills associated with maintenance operations. Used oil will be stored in drums with sealed lids and properly managed.
- D. No equipment will be washed on the project site. Washing of equipment will be done at a commercial car or truck wash site with proper water management.
- E. Engine degreasing is not permitted along the project route.

5.1 Petroleum Product Storage and Handling

- A. Stationary fuel tanks will be restricted to the Contractor's project yard. Secondary containment dike or double walled tanks will be provided.
- B. Tanks and hoses will be inspected prior to fueling for integrity and any problems will be immediately corrected.
- C. All fuel transfers will be supervised by a qualified, trained employee; under no circumstances will fuel transfers be left unattended.
- D. A spill kit will be present within 25 feet of the tank(s), and on all trucks with truck mounted "slip tanks" and off-road equipment.
- E. Lubricants and grease will be stored inside job trailers.

5.2 Spill Prevention and Response

A spill is the release of any substance into the environment, (including sediment-laden water and petroleum products) which "poses a potential hazard to human health or the environment because of its quantity, concentration or physical, chemical characteristics."

Spill and leaks will be immediately controlled, contained, and cleaned up. Operations are immediately shut down when necessary to redirect proper resources and manpower in spill response. Contractor's spill response procedures are then implemented. An abbreviated summary of this spill response procedure is below:

- A. Protect yourself and others if there is a safety risk.
- B. If you are able, control the spill and stop the leak.
- C. If you are able, contain the spill and prevent it from spreading.
- D. Isolate the spill material.
- E. Contact your immediate supervisor to report the incident.
- F. Clean up the spill and ensure all proper agency reporting is completed.

5.3 Waste Management

Solid waste generated in the project site may include employee generated waste from lunches, wood pallets, banding and packaging for materials delivered to the project site and other miscellaneous packaging or waste materials. All debris and waste will be removed from the site daily and transported to the construction yard for proper segregation and placed into appropriate dumpsters and/or recycling containers.

5.4 Dewatering

Dewatering is not expected for this project. Should dewatering become necessary, the contractor will construct and maintain all dewatering BMPs necessary to avoid impacts and nuisance conditions to downstream wetlands and water bodies. Dewatering directly into wetlands or streams is not permitted. One or more of the following may be implemented:

- A. Pump water to a well vegetated upland a sufficient distance from a wetland or stream
- B. Geotextile filter bag
- C. Straw bale dewatering structure

5.5 Dust Control

Vehicle speed will be limited to minimize dust at the project site. The need for dust controls in the project area is not anticipated due to the slow-moving nature of the equipment.

6.0 RESTORATION AND STABILIZATION SCHEDULE

Natural regeneration of the vegetation is expected to occur rapidly; however, dormant seeding, and erosion matting may be used to allow for germination as soon as possible after project completion. If compaction appears to be a problem, the soil surface may be roughened by Harley rakes, discs, or other methods in an effort to improve soil to seed contact in select areas.

The temporary BMPs surrounding the disturbed area will be maintained until 70% or greater vegetative cover is established. If the disturbed area has not achieved 70% vegetation before the end of the growing season, the contractor may implement additional stabilization practices. The disturbed soils shall be returned to pre-construction conditions. Ditches, wetlands and other areas will be seeded with a location-appropriate seed mixture. The location may be stabilized with the seed mixture for specific areas of the project.

7.0 EROSION CONTROL INSPECTION AND MAINTENANCE

The contractor or owner's designated representative shall inspect the project locations in accordance with the State of Wisconsin's regulations. Inspections shall be conducted <u>at least once per week</u> during the time construction or maintenance activity is being pursued on the project locations, <u>and at all of the following times</u>:

- A. Within 24 hours after every precipitation event that produces 0.5 inches of rain or more during a 24-hour period, or that results in any discharge.
- B. At each stage, as new portions of the project route are disturbed, required additional erosion control practices shall be implemented.
- C. Upon completion of installation of permanent best management practices.
- D. At the completion of the project. The inspection to be performed at the completion of the project shall be made before the Owner provides the prime contractor with written notice of final acceptance of the project.
- E. Contractor shall correct any deficiencies immediately (within 24 hours of rainfall event) and maintain erosion control measures as needed to correct inadequacies of erosion control system. Contractor shall stage or phase the work in a method to cover disturbed areas in a timely manner prior to continuing subsequent work.
- F. Inspectors shall document each inspection on the Construction Site Inspection Report form. The inspection report is considered a part of the project. See Appendix E for a copy of the Construction Site Inspection Form.
- G. The designated inspector shall be allowed access to the work area for the purpose of inspecting compliance with erosion and sediment control plan, or for performing any work necessary to bring the location into compliance with the erosion control plan. The Contractor shall keep a copy of the erosion control plan on-site throughout construction.

8.0 CHANGES

This Plan will be amended as necessary to include additional requirements, such as supplemental or modified BMPs, designed to correct problems identified, or to address the following situations:

- A. A change in design, construction, operation, maintenance, weather, or seasonal conditions that has a significant effect on the discharge of pollutants to surface waters or ground water.
- B. Inspections or investigations by site operators or local, state, or federal officials, that indicate this Plan is not effective in eliminating or significantly minimizing the discharge of pollutants to surface water or ground water, or that the discharges are causing water quality standard exceedances.
- C. It is determined that this Plan is not achieving the general objectives of minimizing pollutants in storm water discharges associated with construction activity, or this Plan is not consistent with the terms and conditions of the permit.
- D. The State of Wisconsin may determine (and notify in writing) that the project's storm water discharges may cause, have reasonable potential to cause, or contribute to, non-attainment of any applicable water quality standard, or that the Plan does not incorporate the applicable requirements for discharges to protective waters. In response, a supplemental BMP action plan, or appropriate Plan amendments describing Plan modifications to address the identified concerns, will be prepared and implemented.

9.0 PROJECT COMPLETION

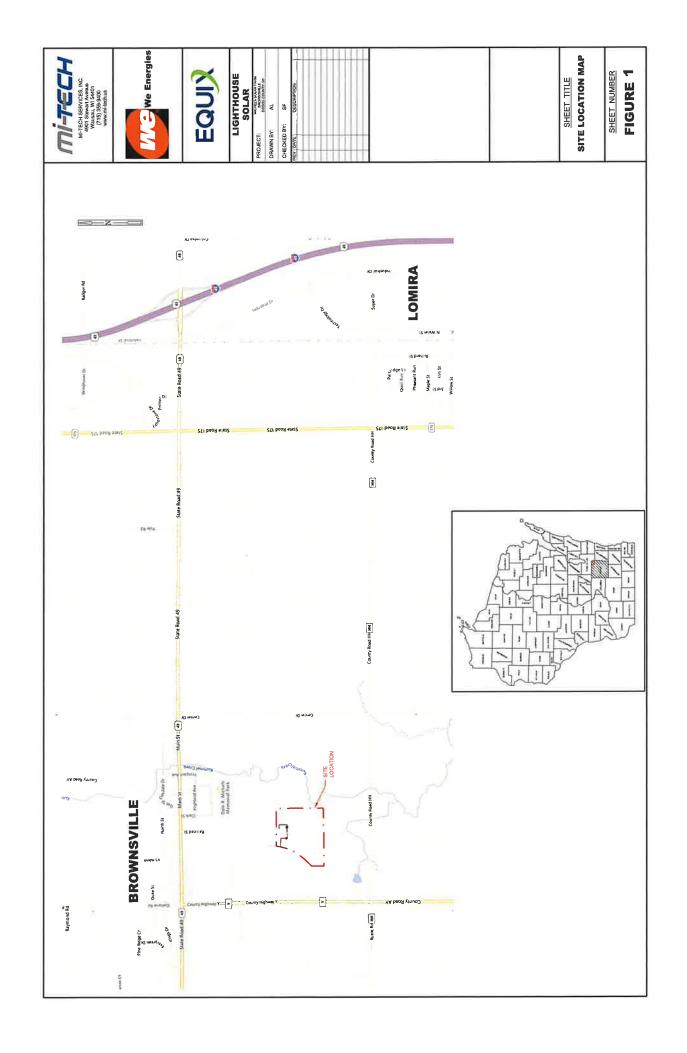
9.1 Final Stabilization

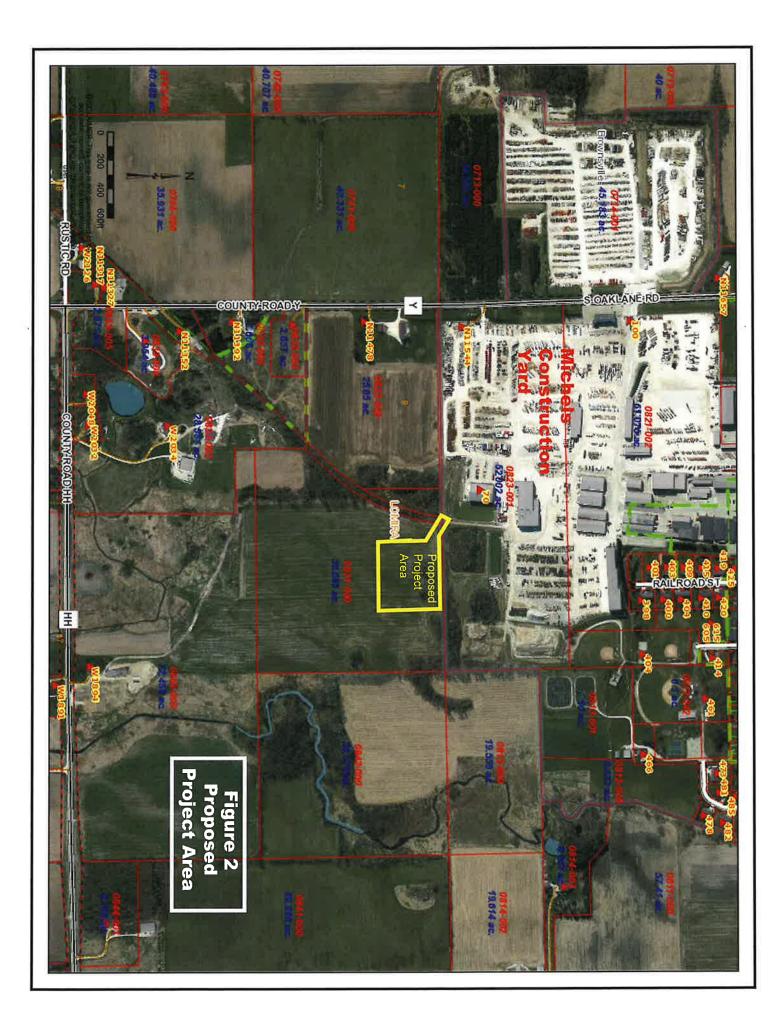
The Permittee(s) must ensure Final Stabilization of the site prior to terminating storm water permit coverage OR have the permit transferred to another entity. Final stabilization includes completion of all the following:

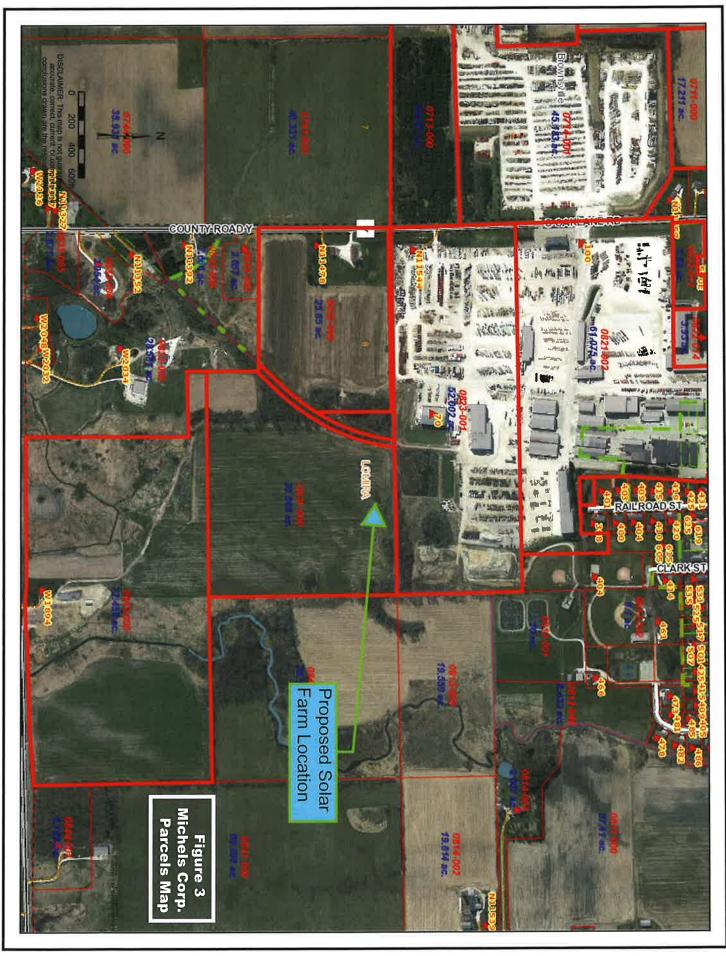
- A. All soil disturbing activities at the site have been completed and all soils are stabilized by a uniform perennial vegetative cover with a density of 70% over the entire pervious surface area, or other equivalent means necessary to prevent soil failure under erosive conditions.
- B. Temporary synthetic and structural erosion prevention and sediment control BMPs (such as silt fence) have been removed. BMPs designed to decompose on site (such as some compost logs) may be left in place (if acceptable to the landowner).

Additional final stabilization considerations are included in the permit, however only those applicable to this utility construction project are summarized above.

APPENDIX A Project Location and Layout Maps







APPENDIX B Existing Conditions



Michels Brownsville Solar Farm Location



Index to
EN_Image_Basemap_Leaf_
Off

Lakes and Open water

Rivers and Streams Intermittent Streams

County and Local Roads

County HWY

Local Road

Tribal Lands

Railroads

County Boundaries

State Boundaries

Municipality

Legend

Interstate Highway

Major Roads

State Highway US Highway

Existing Conditions

Notes

Unnamed Stream Located East of Project Area

0.3 Miles

0.13

0

0.3

1: 7,920

NAD_1983_HARN_Wisconsin_TM

K Factor, Whole Soil

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
LmB	Lamartine silt loam, 2 to 6 percent slopes	.32	0.4	22.4%
LrC2	LeRoy silt loam, 6 to 12 percent slopes, eroded	.43	1.4	77.6%
Totals for Area of Inter	est		1.8	100.09

Description

Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of six factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and saturated hydraulic conductivity (Ksat). Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

"Erosion factor Kw (whole soil)" indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments.

Factor K does not apply to organic horizons and is not reported for those layers.

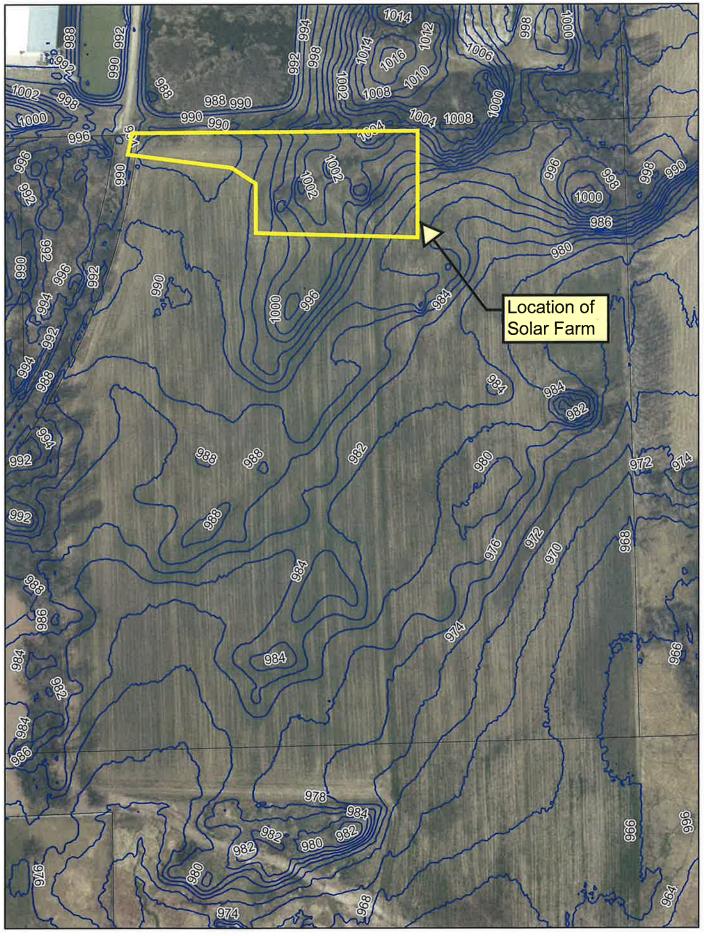
Rating Options

Aggregation Method: Dominant Condition
Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Layer Options (Horizon Aggregation Method): Surface Layer (Not applicable)

Michels Brownsville Solar Farm - Topographic Map



Brownsville Solar Farm 2 Ft Contours

9/21/2022 Page 1 of 3

Web Soil Survey National Cooperative Soil Survey

Natural Resources Conservation Service

USDA

Soils

Soil Map Unit Polygons

8 ۵

> Very Stony Spot Stony Spot

Soil Map Unit Points Soil Map Unit Lines

> Other Wet Spot

Special Line Features

Special Point Features

Borrow Pit Blowout

Water Features

Streams and Canals

Transportation ŧ

Rails

Closed Depression Clay Spot

Gravelly Spot Gravel Pit

> US Routes Interstate Highways

Landfill Lava Flow

Background

Local Roads Major Roads

Aerial Photography

Mine or Quarry Marsh or swamp

Miscellaneous Water

Perennial Water Rock Outcrop

Sandy Spot Saline Spot

Sinkhole Severely Eroded Spot

Φ 0

Slide or Slip

Sodic Spot

MAP INFORMATION

1:15,800 The soil surveys that comprise your AOI were mapped at

misunderstanding of the detail of mapping and accuracy of soil contrasting soils that could have been shown at a more detailed line placement. The maps do not show the small areas of Enlargement of maps beyond the scale of mapping can cause Warning: Soil Map may not be valid at this scale.

measurements. Please rely on the bar scale on each map sheet for map

Web Soil Survey URL: Source of Map: Natural Resources Conservation Service

Coordinate System: Web Mercator (EPSG:3857)

accurate calculations of distance or area are required. Albers equal-area conic projection, should be used if more projection, which preserves direction and shape but distorts Maps from the Web Soil Survey are based on the Web Mercator distance and area. A projection that preserves area, such as the

of the version date(s) listed below. This product is generated from the USDA-NRCS certified data as

Soil Survey Area: Dodge County, Wisconsin Survey Area Data: Version 18, Sep 7, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 20, 2020—Sep

shifting of map unit boundaries may be evident. imagery displayed on these maps. As a result, some minor compiled and digitized probably differs from the background The orthophoto or other base map on which the soil lines were

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
LmB	Lamartine silt loam, 2 to 6 percent slopes	0.4	22.4%
LrC2	LeRoy silt loam, 6 to 12 percent slopes, eroded	1.4	77.6%
Totals for Area of Interest		1.8	100.0%

From: Radermacher, Geri M - DNR

To: Stephanie Finamore

Subject: FW: Request for Wetland Consultation - Michels Brownsville Solar Site, Dodge County (new site)

Date: Monday, September 26, 2022 5:49:52 PM

Attachments: image001.png

image002.png image003.png image004.png image005.png image006.png image007.png image008.png image009.png image010.png Michels Corp REV6.pdf

WDNR SWDV.pdf Historical Aerial Review of Hydric Soil Area.pdf

Hi Stephanie,

Thank you for providing the updated wetland consultation request for the proposed Michels Brownsville Solar Project in Dodge County. The Office of Energy previously provided wetland consultation for the project on July 8, 2022. The updated request includes a modified project area (moved to adjacent parcel to east of original request). I reviewed the updated request and agree it accurately evaluated for the presence of wetland for the purpose of this project and wetland in not present within the modified project area. Please upload this email and attachments with any WDNR permit application submittals as proof of wetland consultation. Please keep in mind all waterways mapped in the WDNR 24K hydro layer and any additional waterways field located are considered navigable unless determined non-navigable by the WDNR through a navigability determination.

Please note this determination did not include a review for approvals or permits needed for:

- Cultural/archaeological/historical resources,
- state threatened or endangered species,
- state stormwater/erosion control permitting,
- state wastewater permitting,
- · state water use permitting, or
- easements needed for crossing of WDNR property (state lands, state trails, etc.)
- resource identification, approvals, permits, or authorizations needed from tribal entities for work within tribal reservation boundaries

As stated in my previous wetland consultation email, the WDNR Office of Energy requires further site documentation to demonstrate that wetlands are not present within projects proposing permanent fill. Further documentation to support an upland determination may include documentation of an aerial imagery review with findings and Google Street View Imagery or clearly labeled site photographs. This Michels Brownsville Solar Farm consultation request included the historical aerial review which sufficiently supported the upland determination, however site visit confirmation is preferred and may be required for future projects.

Thanks,

~Geri

We are committed to service excellence.

Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Geri Radermacher

Energy Project Liaison
Office of Energy- https://dnr.wisconsin.gov/topic/Sectors/UtilityPermitting.html
Wisconsin Department of Natural Resources

141 NW Barstow Room 180 Waukesha WI 53188 Cell Phone: (262) 239-0994 geri.radermacher@wi.gov



From: Stephanie Finamore <sfinamor@mi-tech.us>

Sent: Monday, September 12, 2022 3:27 PM

To: Radermacher, Geri M - DNR < Geri.Radermacher@wisconsin.gov>

Subject: Request for Wetland Consultation - Michels Brownsville Solar Site, Dodge County (new site)

CAUTION: This email originated from outside the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good afternoon Geri -

You provided me with a wetland consultation for a proposed solar farm project in Brownsville (Dodge County) back in July. The proposed project has moved over to the adjacent parcel to the east, and so I am seeking a revised consultation please.

The new site is still located directly south of the Michels Corporation yard, in the City of Brownsville, Dodge County, but is directly east of the other parcel. This parcel is landlocked, and access is from the yard. The coordinates of the site are 43.608616 / -88.493338. The preliminary site plan is attached.

The proposed project involves installation of an access road from the Michels yard, 4.5 rows of solar panels, and a metering station. A security fence will surround the utility. This proposed solar farm, once constructed, will be leased to WPS/WE Energies; the energy generated will be utilized for public consumption.

The site is currently in agricultural production. Based on review of the SWDV (see

attached), there are no mapped wetlands within the project boundary. There is an area of wetland indicator soils along the west side of the parcel, part of the Lamartine silt loam unit (LmB). Based on a review of current and historical aerial photos on Google Earth, there are no signs of wetness, stunted/stressed vegetation, etc. visible anywhere within the project site (including the area of wetland indicator soils). It is our interpretation that the project will not result in impacts to wetlands.

A Stormwater Construction General Permit will be required for construction of the site, and thus we are requesting a wetland consultation/review for this project.

Please let me know if you have any questions or need any additional information.

Thank you for your review.

-Stephanie

Stephanie Finamore

Environmental Manager/Sr. Environmental Scientist II Mi-Tech Services, Inc.

4901 Stewart Ave Wausau WI 54401

Direct 715.359 9400 x5232 Mobile 920 621 8417 Email sfinamor@mi-tech.us

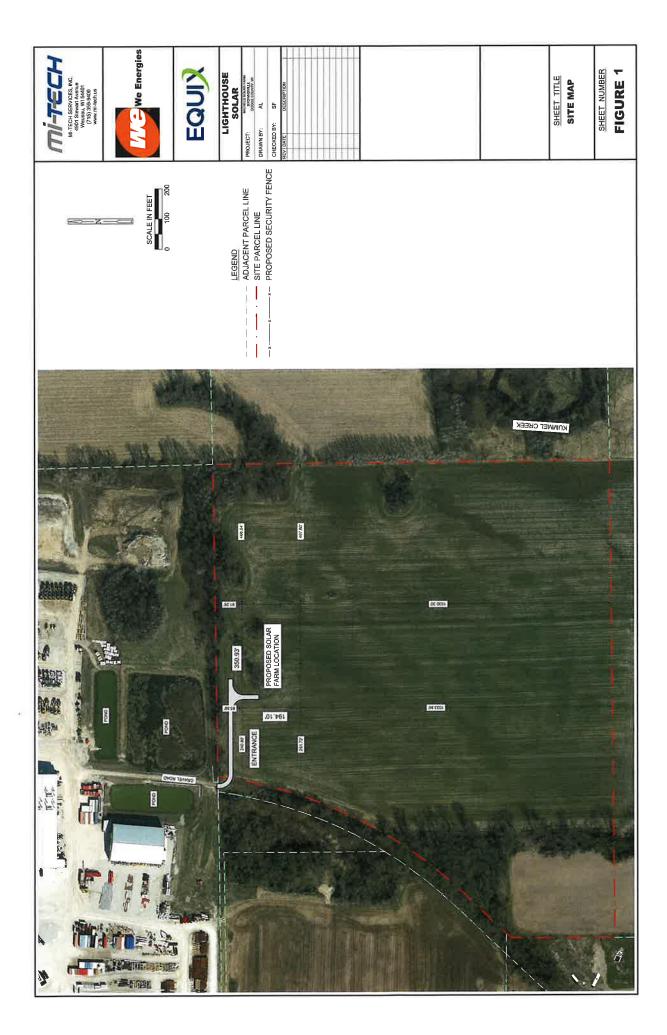
www.mi-tech.us

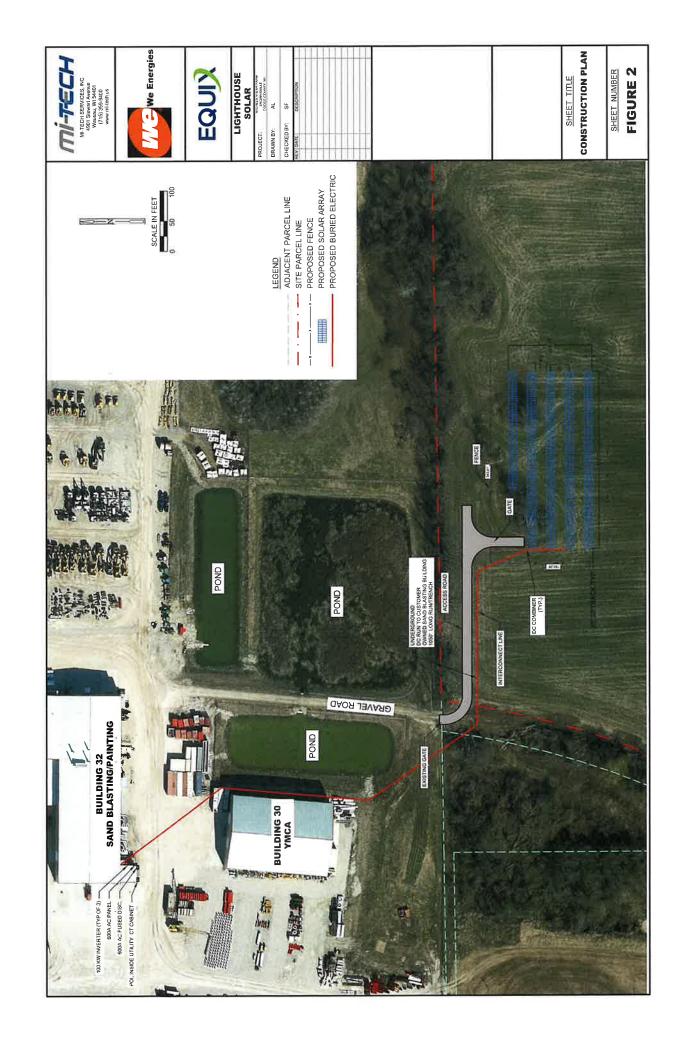


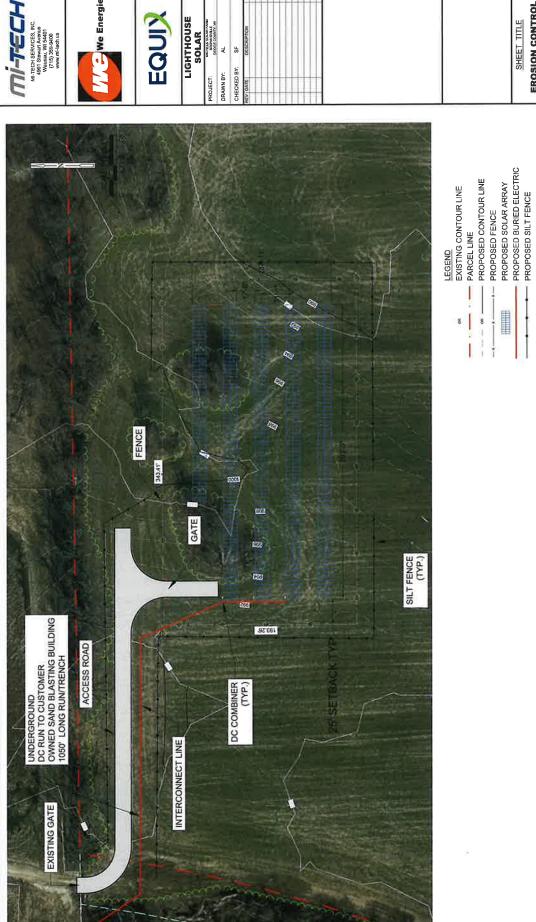


THE BURGLANDS CONTACTO NOTES OF THE PRODUCT OF THE

APPENDIX C Proposed Project Plans







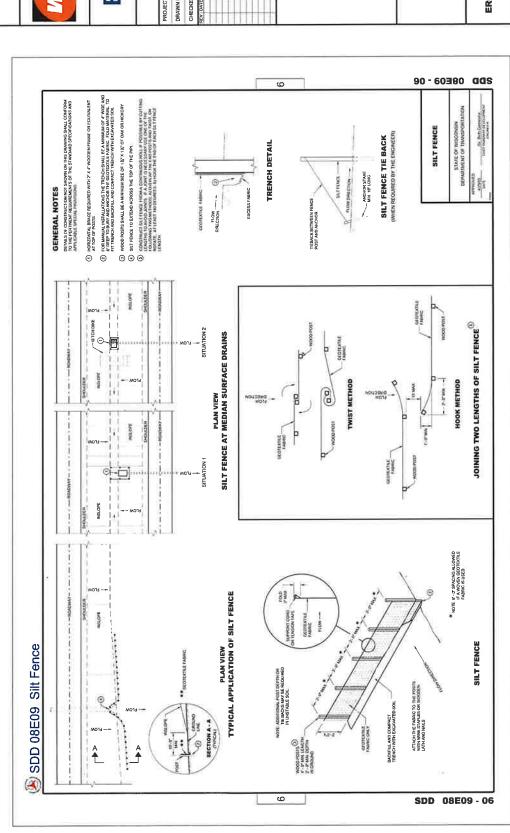
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We Energies

EROSION CONTROL PLAN SHEET TITLE

SHEET NUMBER

Figure 3



MI-TECH Mi-TECH SERVICES, INC, 4901 Slowart Avenue Weuseu, WI 54401 (715) 359-9400 www mi-tech us







LIGHTHOUSE SOLAR SOLAR ECT: WELLS SOLAR FARM WINDY: AL CHECKED BY: DRAWN BY: PROJECT:

EROSION CONTROL PLAN SHEET TITLE

SHEET NUMBER

FIGURE 4



Soil Loss & Sediment Discharge Calculation Tool

for use on Construction Sites in the State of Wisconsin

WDNR Version 2.0 (06-29-2017)



YEAR 1

Michels Corp.

Developer:

Brownsville Solar Farm Project:

09/26/22

Date:

Dodge County:

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Version 1.0	Sediment Discharge (t/ac) (15)	2.3	9.0	0.0	0.0	0.0	0.0	
	Sediment Control Practice (14)	Silt Fence	Silt Fence	•	•		•	
	SDF (13)	1.011	1.011	0.000	0.000	0.000	0.000	
	Soil loss A (tons/acre) (12)	3.8	1.0	***	-	****	****	
	LS Land Cover Factor C Factor (10) (11)	1.00	0,10		****	1		
	LS Factor (10)	0.30	0:30	0.30	-	*****	2444	
	Slope Length (ft) (9)	100	100	100	100	0	0	
	Slope (%) (8)	3.0%	3.0%	3.0%	%0.0	0.0%	%0.0	
	Soil Erodibility K Factor (7)	0.43	0.43	-			2000	
	Sub Soil Texture (6)	Silt Loam	Silt Loam	•		******		
	Annual R Factor (5)	130	130	*****	3	(******)		
	Period % R (4)	23.0%	%0 09		****			
١.	End Date (3)	06/01/23	09/01/23		-	••••		
Dodge	Begin Date (2)	11/01/22	06/01/23	09/01/23				
County:	Activity (1)	Bare Ground	Seed with Mulch or Er. →	End ←	b	•	•	

See Help Page for further descriptions of variables and items in drop-down boxes.

The last land disturbing activity on each sheet must be 'End'. This is either 12 months from the start of construction or final stabilization.

For periods of construction that exceed 12 months, please demonstrate that 5 tons/acre/year is not exceeded in any given 12 month period.

Recommended Permanent Seeding Dates:

Turf, introduced grasses and legumes Native Grasses, forbs, and legumes 8/1-8/21 and Thaw-6/30 4/15-6/1

Designed By: Mi-Tech Services, SMF

NOTE: THIS TOOL ONLY ADDRESSED SOIL EROSION DUE TO SHEET FLOW, MEASURES TO CONTROL CHANNEL EROSION MAY ALSO BE REQUIRED TO MEET SEDIMENT DISCHARGE REQUIRED TO MEET SEDIMENT DISCHARGE REQUIREMENTS.

NONE

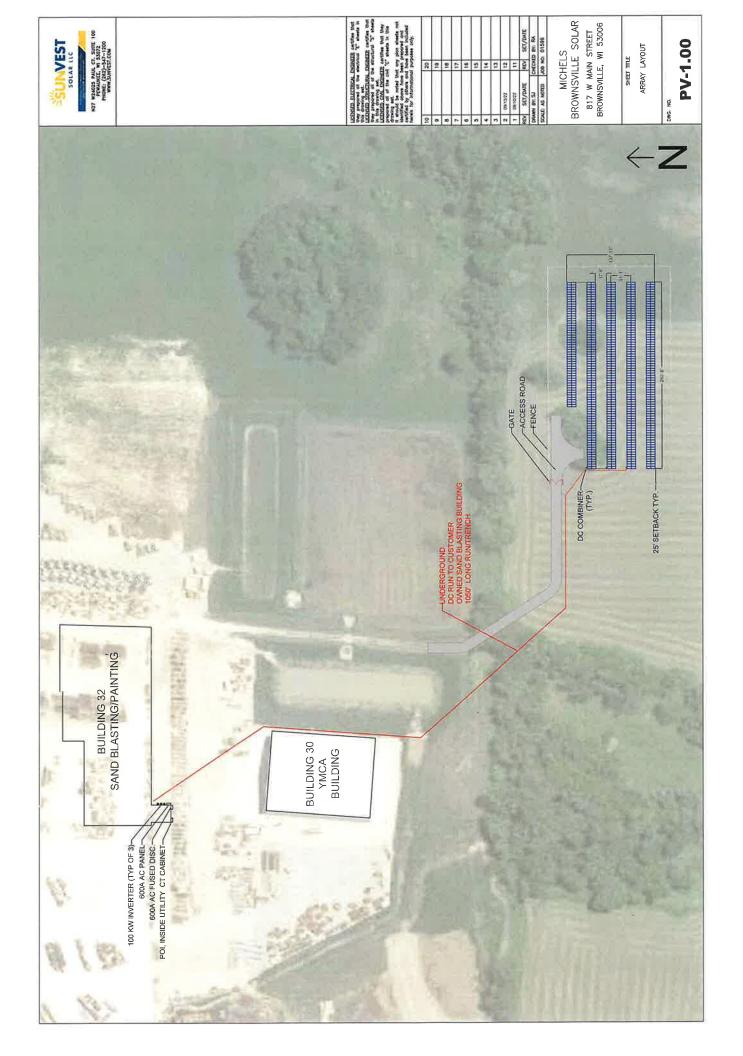
% Reduction Required

TOTAL

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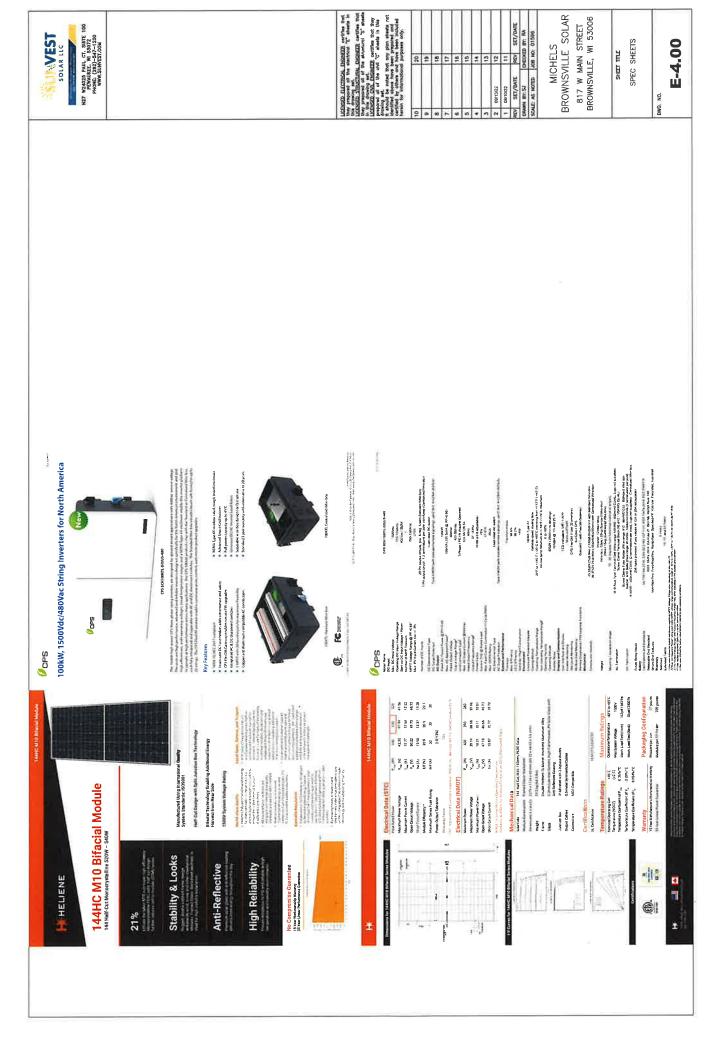
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AWARNING

THIS PANEL HAS SECONDARY POWER SOURCE FROM PHOTOVOLTAIC SYSTEM TURN-OFF PHOTOVOLTAIC SYSTEM BREAKER PRIOR TO SERVICING PANEL MAX AC OUTPUT CURRENT 380 1 AMPS

480 VOLTS MAX AC OUTPUT VOLTAGE

PLACE AT POINT OF INTERCONNECTION

MARNING

SOURCES: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM DUAL POWER SUPPLY

LABEL PLACE AT POINT OF INTERCONNECTION

A WARNING

SOLAR GENERATOR UTILITY LOCKABLE AC DISCONNECT SWITCH AUTHORIZED PERSONNEL ONLY HIGH VOLTAGE- KEEP AWAY

LABEI PLACE ON DC DISCONNECTS AND

88 INVERTERS

LABEL PLACE AT UTILITY
#3 LOCKABLE DISCONNECT

A WARNING

POTENTIAL ARC FLASH HAZARD

LABEL PLACE ON CONDUIT JUNCTION BOXES #9 AND COMBRER BOXES AT EVERY IN

WARNING

DC JUNCTION BOX

LABEL BACE AT PV SWTCHBOARD

▲ WARNING

TURN OFF AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

AUTHORIZED PERSONNEL ONLY HIGH VOLTAGE, KEEP AWAY

A WARNING

PV ARRAY DC DISCONNECT

-ELECTRICAL SHOCK HAZARD -DO NOT TOUCH TERMINALS-

ABET PLACE ON DC JUNCTION BOXES #10

UABEL #5 PLACE AT AC COMBINER PANEL

SIDES MAY BE ENERGIZED IN THE OPEN POSITION

MAXIMUM CURRENT OPERATING VOLTAGE

#11 PLACE ON DC DISCONNECTS

A WARNING AWARNING

ELECTRIC SHOCK HAZARD

TURN OFF INVERTER PRIOR TO OPERATING AC DISCONNECT POWER METER AND AC DISCONNECT AUTHORIZED PERSONVÆL ONLY

LABEL #6 PLACE AT AC DISCONNECT

▲ WARNING

ELECTRIC SHOCK HAZARD

IF GROUND FAULT IS INDICATED ALL NORMALLY MAY BE UNGROUNDED AND GROUNDED CONDUCTORS ENERGIZED

PLACE AT INVERTERS

DO NOT TOUCH TERMINALS
TERMINALS ON THE LINE AND
LOAD SIDES MAY BE
ENERGIZED IN THE OPEN POSITION

M12 AND AC DISCONNECTS

A WARNING

AUTHORIZED PERSONNEL ONLY HIGH VOLTAGE: KEEP AWAY PULL BOX

M13 PLACE AT PULL BOXES

#14 PLACE AT INVERTERS LABEL #15 PLACE AT INVERTERS MPD M-01 ACB-01 SC-1

PLACE AT SYSTEM PANELBOARD LABEL #16

3 EECTIVICA EQUIPMENT SIGNAS ANTHOROGOS, PHILE STEPPENT SIGNAS ANTHOROGOS, PHILE SECTION CONTROL CHARGE, AND SEE IN CONTROL CHARGE, AND SECULATION CH

INTERCONNECTION WITH OTHER SOURCES SHALL BE MARKED AT AN ACCESSIBLE LOCATION AT THE DISCONNECTING MEANS AS A POWER SOURCE AND WITH

4 ALL INTERACTIVE SYSTEM(S) POINTS OF

LATTEL PLACE AT INVERTERIDG DISCONNECT

THE RATED AC OUTPUT CURRENT AND THE NOMINAL OPERATING AC VOLTAGE (NEC 690 54)

H18 PLACE AT COMBINER BOX

6 PROVIDE ALL ADDITIONAL LABELS AS REQUIRED PER NEC. NESC, AND OTHER APPLICABLE CODES AND STANDARDS 5 DIRECT-CURRENT PV POWER SOURCES SHALL BE PERMED 40053

1 PROVIDE 9"X3" ENGLISHISPANISH ELECTRICAL WARNING SIGN AT EACH OF THE SITE ENTRANCES AND EVERY 200 ALONG THE FENCE

2 PROVIDE SITE DISCONNECT LOCATION PLACECARD AT EACH OF THE SITE ENTRANCES MARK YOU ARE HERE" AT EACH OF THE LOCATIONS ON THE MAP

POWER TO THIS SITE IS SUPPLIED BY

CAUTION

MULTIPLE SOURCES: DISCONNECT **LOCATIONS ARE SHOWN BELOW**





2 MATERIALS USED IN THE CONSTRUCTION OF THE LABELS SHALL BE UV RESISTANT

1 SYSTEM LABELS SHALL, BE PERMANENTLY ATTACHED BY MECHANICAL MEANS OR SECURED WITH UV-RESISTANT

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SAND BLASTING/PAINTING

DISCONNECTING
MEAN (TYP OF 3)

600A AC PANEL— 600A AC FUSED DISC.— POI, INSIDE UTILITY CT CABINET 100 KW INVERTER (TYP OF 3)-

PHOTOVOLTAIC AC

BUILDING 32

BROWNSVILLE SOLAR 817 W MAIN STREET BROWNSVILLE, WI 53006 MICHELS

SHEET THE

NEC LABELS

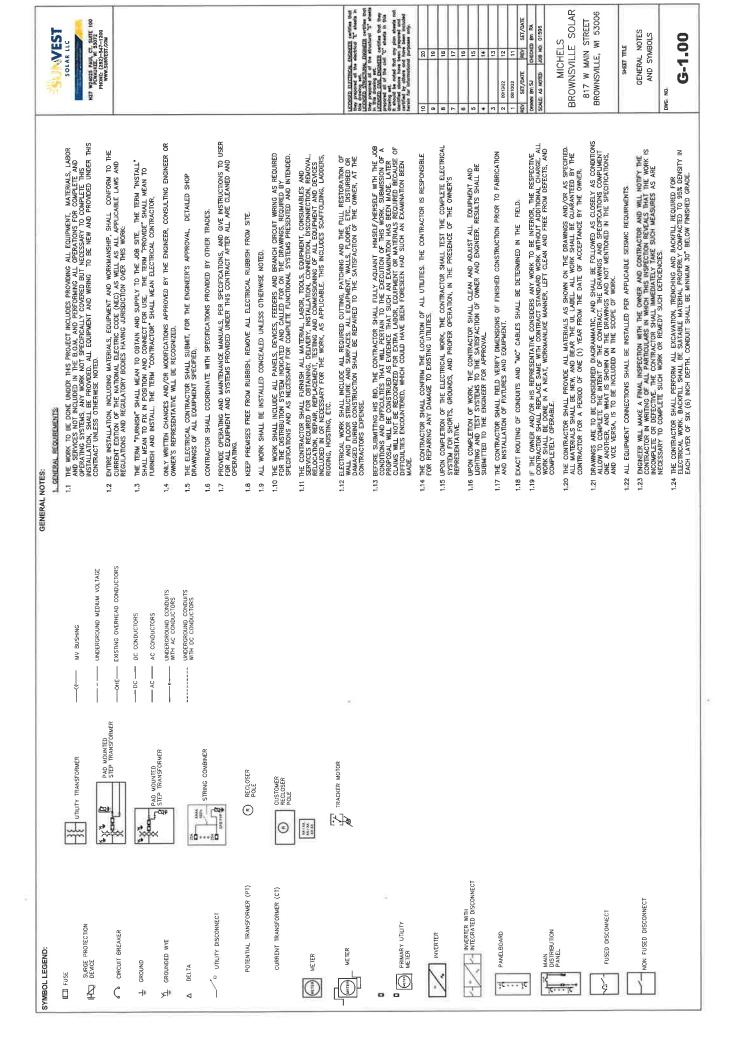
MICHELS CORPORATION
MAP OF PHOTOVOLTAIC POWER SOURCES
DISCONNECTING MEANS

BUILDING 30

SITE DISCONNECT LOCATION PLACECARD

E-5.00

DWG. NO.



GENERAL NOTES:

2. PROJECT COORDINATION

- 2.1 THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS AT THE SITE AND NOTIFY THE OWNER OF ANY DISCREPANCIES, PRIOR TO COMMENCING WITH THE WORK.
- THE CONTRACTOR SHALL REVIEW AND COORDINATE WITH THE DOCUMENTS OF ALL TRADES. 2.2
- THE CONTRACTOR SHALL FURNISH A SCHEDULE INDICATING HIS PORTION OF TIME, WITHIN THE OPERALL SCHEDULE, RECURBED TO CONFIDETE THE WORK, IN CONJUNCTION WITH ALL TREASS, ALL WORK THAT MAY AFFCIT OPERATION OF BUILDING SYSTEMS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE. 2.3
- SAUT DOWN OF POWER SHALL BE COORDINATED WITH THE CHINEER, ARCHITECT AND MOMESTED HANGEST HANGEST ENTED TOWNS SHALL BE COORDINATED WITH THE ADDRESS THAN 2 DOWNS SHALL BE COORDINATED WITH THE ADDRESS THAN 2 DOWNS TOWNS TOWNS THAT SHALL BE PROVIDED BY THE LEGISLARY OF THE ADDRESS TOWNS THAT SHALL BE PROVIDED BY THE LEGISLACK CONTRACTORS FOR SHUT DOWNS OWER 2 DAYS. 24
 - ALL CONDUITS AND DEVICE BOXES SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR, INCLUDING ALL TECHNOLOGY CONDUITS AND BOXES, 2.5
- EXACT LOCATIONS OF OUTLES AND EQUIPMENT SHALL BE CORBINATED WITH ARCHITECTURAL AND MILLIAMENER, PLANS, LAL OUTLET TWO EQUIPMENT LAYOUTS SHALL BE VERRIED AND COORDINATED WITH WORK OF OTHER TRADES. 26
- PROVIDE TEMPORAY LIGHTING AND POWER IN ACCORDANCE WITH ARTICLE 365 OF THE NEC. TEMPORARY LIGHTING PAYLINES IN UNIVILISATION AREAS SHALL REMAIN CONNECTED UNTIL REMOVAL IS REQUESTED BY THE CONTRACTION. 2,7
- THE CONTRACTOR SHALL CONTACT THE BUILDING MANAGER TO OBTAIN A COPY OF THE GENERAL REQUIREMENTS AND/OR CONDITIONS TO BE USED FOR THIS PROJECT. 2.8

3. PROTECTION OF WORK

3, EPECNIZAZ PROFECET LIA AMERIKAZ AND COUPANTE TROA BYNOGNUETYL. AND PHYSOLA DAMAGE UNIT. FRAJ. ACCEPTANCE, GLOSE AND PROTECT ALL OPENINGS DAMAGED. UNIT. FRAJ. ACCEPTANCE, GLOSE AND PROTECT ALL OPENINGS DAMAGED. AND COUPANENT TO REPLACE TEAS

4. WARRANTIES:

- ALL MATERIALS AND EQUIPMENT SHALL BE GUARANTEED IN WRITING FOR A MINIMUM OF ONE YEAR AFTER FINAL ACCEPTANCE BY OWNER.
- WORKMANSHIP SHALL BE CUARANTEED IN WRITING FOR A MINIMUM OF 5 YEARS AFTER FINAL ACCEPTANCE BY OWNER 4.2
- OBTAIN AND DELIVER TO THE OWNER'S REPRESENTATIVE ALL GUARANTEES AND CERTIFICATES OF COMPLIANCE. 2

5. PERMITS:

5.1 CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTION FEES FOR ELECTRICAL WORK.

- ALL CONDUIT SHALL BE IMINUMA STEE OF 1/2" FOR PROBE CREATURE AND CONTROL CREATER. ECCEPT MEDE FLEXELE CONDUIT IS CALLED FOR GO, PROCEST DOCUMENTS. ALL DETECTIONS EXCEPT WHERE EXCENT DETECTION ENTRY OF PROCEST DOCUMENTS AND STALL OF SCHALL BE POR. LAUGHER CONDUIT SHALL DETECTION FOR STALL DETECTION STALL DES CONDUIT SEFORE LOCATIONS WHERE NOT SUBJECT TO DAMAGE. 6.1
- ALL FLEXIBLE CONDUIT IN WET OR DRY AREAS SHALL BE LIQUID TIGHT COMDUIT, NONMETALLIC FLEXIBLE CONDUIT IS SPECIFICALLY PROHIBITED. 6.2
- CONDUIT SHALL BE RUN AT RIGHT ANCLES AND PARALLEL TO BUILDING LINES, SHALL BE NEATLY RACKED AND SECUELEY FASTERING, JUNCTION BOXES SHALL BE PROVIDED WHERE RECUMED TO FAQUITATE INSTALLATION OF WRITES. 6.3
- ALL CONDUIT AND ELECTRICAL EQUIPMENT SHALL BE SUPPORTED FROM BUILDING STRUCTURE IN AN APPROVED MANNER, 6,4

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- ALL EMPTY RACEWAYS SHALL BE FURNISHED WITH A 200 LB, TEST NYLON DRAG LINE. 6.5
 - ARRANGEMENT OF CONDUIT AND EQUIPMENT SHALL BE AS INDICATED, UNLESS MODIFICATION IS REQUIRED TO AVOID INTERFERENCES, 6.6
- ALL RACEWAY AND WRING SHALL BE CONCEALED IN FINISHED AREAS, RACEWAY IN MECHANICAL ROOMS, BASEMENTS AND CRAWL SPACES MAY BE SURFACE MOUNTED. 6.7
- FOR CONDUITS GROSSING EXPANSION, JOINTS, PROVIDE EXPANSION FITTINGS FOR SIZE 1-1/4", AND LAKERER. PROVIDE SECTIONS OF FLEXBLE CONDUIT WITH GROUNDING AJMPRES FOR SIZES 1 AND SMALLER. 6.8
- THE CONTRACTOR SHALL SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS AN FLOORS WITH APPROVED FIRE FACE SEALANT, ALL PENETRATIONS THROUGH ALL WALLS AND FLOORS SHALL BE SEALED. FOR ALL SHARL SHALL BE RELIED, FOR ALL SHARL SHALL BE PRE-APPROVED BY THE BUILDING ENGINEER PRIORY OF THE SIART OF WORK. 6.9
- 6.10 THE CONTRACTOR SHALL INSTALL DETECTABLE UNDERGROUND TAPES FOR THE PROTECTION, LOCATION AND IDENTRICATION OF UNDERGROUND CONDUIT INSTALLATION,
- 6.11 EXACT ROUTING OF CONDUITS AND CABLES SHALL BE DETERMINED IN FIELD,
 - 6.12 ALL PENETRATIONS THROUGH FLOORS SHALL BE FIRE STOPPED AND SEALED WITH APPROVED SEALANT.

6.13 ELECTRICAL RACEWAY CONNECTIONS TO VIBRATING EQUIPMENT AND MACHINERY, SHALL BE MADE WITH FLEXIBLE LIQUID TIGHT METALLIC CONDUIT.

- 6.14 SECURE, ALL SUPPORTS TO BUILDING STRUCTURE, TUTIZING TOGGEE BOLTS IN HOLLOW MASONINE, EENVISION SHELDS OR WISERTS IN CONCRIET AND REICK, MACHINE STREAM, CLAMPER N. FRAMENOR, AND WOOD SUCKERS IN WOOD. WALLS, RAME, FULUS, SHAM, FULUS, AND WOOD DUCKS ARE OF DEFENTION. WHERE RECURINE STRUCTURE, PROVIDE THRU BOLTS AND FISH PATES. SUPPORT RACEMY RESERS AT TO BUILDING LINES.
- DO NOT RUN RACEWAYS CLOSER THAN 6 INCHES WHEN PARALLEL TO HOT WATER OR STEAM PRES GNOSTS AN INMINAUM OF 3 STEAM PRES GNOSTS AN INMINAUM OF 3 STEAM SHOVE IT GNOSSING BELOW IS UNANDOMBLE, PROVIDE DNIP SHELDS EXTENDING 6 INCHES RECYOR THE WATER OR STEAMPREE BOXES INSTALLED IN PROXIMITY TO WATER OR STEAM PIPE SHALL BY AN 4X.

Z. BOXES:

7.1 INTERIOR JUNCTION BOXES SHALL BE SHEET STEEL EXTERIOR JUNCTION BOXES SHALL BE NOMERIALLO, THIN SCREW COVERS. BOXES SHALL BE SUPPORTED INDEPOBRITY OF CONDUITS.

B. WRING:

- ALL WRE SHALL BE MADE OF COPPER WITH INSOLATION SUITABLE FOR THE APPLICABLE ENVIRONBIT AND YOLTAGE, CONTRACTOR SHALL GET APPROVAL FOR ANY OHER WRE TYPE. 8.1
- 8,2 UNDER NO CIRCUMSTANCES SHALL FEEDERS BE SPLICED.
- 8,3 ALL ELECTRICAL TERMINAL TEMPERATURE RATINGS ASSUMED TO BE 75°C UNLESS SITE CONDITIONS REQUIRE OTHERWISE.
- 2 WRE SIZES SHALL BE INCREASED WHERE NECESSARY TO LIMIT AC VOLTAGE DROP 1.5% TOTAL FROM INVERTER TO POINT OF COMMON COUPLING 4.9

- 9.1 PROVIDE A COMPLETE EQUIPMENT GROUND SYSTEM FOR THE ELECTRICAL SYSTEM AS REQUIRED BY ARTICLE 250 AND 690, OF THE NEC, AND AS SPECIFIED HERBIN.
- ALL BRANCH CIRCUITS AND FEEDERS FOR POWER WIRING SHALL CONTAIN A COPPER RECOUNT WIFE, NO FLEXIBLE METAL, COMUDIT OF ANY KIND OR LENGTH SHALL BE USED AS THE EQUIPMENT GROUNDING CONDUCTOR. 9.5

IO. MECHANICAL SYSTEMS POWER

- DISCONIECT SHITCHES SHALL BE HEAVN DUTY, QUICK MAKE, GUICK BREAK TYPE, ENGLÓSED IN A HEAVY SHEET METAL ENGLÖSIFE WITH HINGED INTERLOCKING OOKEN, IN PROCEME RULA RATED ENGLOSINEES. FUSED OR NON-FUSED AS REQUIRED. DISCONIECT SHITCHES SHALL BE PROVIDED BY COMITIACION, EXCEPT AS NOTED ON DAMMINS. 10,1
- 10.2 THE RATING FOR DISCONNECT SWITCHES SHALL BE THE SAME AS, OR GREATER THAN, THE PROTECTIVE DEVICE SERVING THE EQUIPMENT.
- 10.3 A STRUT FRAME SHALL BE PROVIDED AT ALL LOCATIONS WHERE STRUCTURE WILL NOT ADEQUATELY SUPPORT EQUIPMENT, OR FOR FREESTANDING EQUIPMENT.

PANEL BOARDS:

- 11.1 PANEDONOS: SYSTOME UNITS SHALE B. PARCE, A WISC GOLDS BECKER TYPE CAUGUSTS OTHERWISE NOTED. BUS BARS SHAL BE HAND DIAMN COPPER, MINIMUM BARS CANALOTION'S AND STATES. CHARLY SHALL BE CAUAMAS DASHETS STEEL, BACK BOX, WITH COOR AND TRIM, AND LAPPED AND WELD CORNERS. HARDWARE SHALL BE CARCALL THANDLE, LOCK AND "FORWALT CAMED LARGES IN THAN 48 IN, HIGH DOWS), OR WILLIT HANDLE, LOCK AND "FORWALT CAMED LARGES IN THAN 48 IN, HIGH DOWS). HIRES SHALL BE SAM-CONCEALD: "FANDLES STEEL WITH MARKET SHALL BE SAM-CONCEALD: "FANDLES STEEL WITH MARKET SHALL BE SAM-CONCEALD: "FANDLES STEEL WITH MARKET SHALL BE SAM-CONCEALD: "A MANIMUM STIFL KIN WITH CLARK PLASTS," TO NOT CONSTRUCTION, MINIMUM GUITER SPACES FOR LIGHTING PARLS SHALL BE METAL FRAME.
- PROVIDE A NEW TYPE WRITTEN CIRCUIT DIRECTORY FOR EACH PANEL AFFECTED BY THIS PROJECT. 11.2
- 11.3 WHEREVER POSSBILE, PANELBOARDS SHALL BE RECESSED IN WALL. SURFACE MOUNTED PANELBOARDS SHALL BE MOUNTED ON A PETYMOOD BACKBOARD, PLYMOOD SHALL BE MOUNTED ON TOP OF GYMPSIM BOARD. PLYMOOD SHALL BE PAINTED ON ALL SIDES AND EDGES, COORDINATE WITH OWNER FOR COLOR.
- PROVIDE LICHTNING SURGE PROTECTION FOR MAIN SWTCHBOARD OR MAIN SERVICE PANEL BOARD. PROVIDE GROUNDING OF SURGE DEVICE PER THE NEC. 11,4
- 11.5 CONTRACTOR IS RESPONSIBLE FOR BALANCING LOADS ON ALL PHASES AND MAY ALTER ASSIGNMENT OF CIRCUITS FOR BALANCING PHASES.
- 11.6 CRCUIT SCHEDULES ARE INTENDED TO REPRESENT THE GENERAL WIRING NEEDS O GOURHEST SERVICED FROM THE FAMEL. THE RACKST CRCUIT ARRANGEMENT WILL DETERMINED BY PANEL SHOP DRAWING AND ARRANGEMENT WILL BE DETERMINED IN PANEL SHOP DRAWING AND PANELS ACTIVALLY PURNISHED.

12. IDENTIFICATION:

12.1 PROVICE BLACK PHENGLIC IDENTIFICATION PLATES, WITH WHITE LETTERS ON ALL ELECTRICAL EQUIPMENT FURNISHED IN THIS CONTRACT. ATTACH WITH SUITABLE ADHESINE.

ALTERIAL MULTINOS, LINEARD, CARLON DOC MAGENTA MARKETA TO A SHARE A SHARE A MAGENTA MARKETA TO A SHARE A SHARE AND A MAGENTA MARKETA TO A SHARE A SHARE A SHARE MARKETA MARKETA TO A SHARE A SHARE A SHARE MARKETA MARKETA MARKETA TO A SHARE A SHARE MARKETA MA

- 12.2 INSTALL NAMEPLATES ON ALL MAJOR EQUIPMENT, INCLUDE STARTERS, TRANSFORMERS, PAREBOARDS, DSCONMERG SMITCHES AND OTHER ELECTRICAL BOXES AND CARINETS INSTALLED WIDER THIS CONTRACT.
- APPLY CABLE/CONDUCTOR IDENTIFICATION MARKERS ON EACH CABLE AND CONDUCTOR IN EACH BOX, ENCLOSURE OR CABINET. 12.3

13. RECORD DRAWNGS:

- 13.1 PHE CONTRACTOR SHALL SUBMIT SIX (6) COPIES OF SHOP DRAMINGS. THE APPROVAL OF SHOW DRAMINGS SHALL CHAYED FOR CONSTRUED TO APPLY TO THE GEREAL LAYOUT MAN CONFIGURATION TO THE PROJECT AND TOM THE COMPLANCE WITH THE CENTRAL PROMISEMENTS OF THE FROGUEST TO COMINGATOR SHALL RETAIN THE RESPONSIBILITY FOR ANY DEVALUED TOOL MENTS. THE CONTRACT DOUBLENTS. THE CONTRACT DOUBLENTS. THE SHOW THE LIGHT SHAP TO SHAP THE LIGHT SHAP THE SHAP TH
- 13.3 DIRING CONSTRUCTION, THE CONTRACTOR SHALL MANITAIN A RECORD SET OF INSTALLATION PRINTS. HE SHALL NEATLY AND CLEARLY RECORD ON THESE PRINTS ALL DEVALIONS FROM THE CONTRACT PRANNIGS IN SIZES, LOCATIONS AND DETAILS.

BROWNSVILLE SOLAR BROWNSVILLE, WI 53006

MICHELS

817 W MAIN STREET

NEV SET/ONTE REV SET/DATE
DRAWN BY: SJ. CHICKED BY: RA
SCALE: AS NOTED JOB NO: 01598

09/13/22

- 13.4 UPON PROJECT COMPLETION, THE CONTRACTOR SHALL COMPLETE THE MARK UP OF ALL PROJECT DRAWNOS TO RECORD INSTALLED CONDITIONS.
- AS 13.5 REPRODUCIBLE "RECORD" DRAWINGS PREPARED IN CAD FORMAT SHALL BE PROVIDED INSTALLED CADITIONS OF THE WORST. A PULL SIZE PRINT OUT OF THE RECORD DRAWNED THE SHALL BE PROVIDED AFTER COMPLETION OF THE INSTALLATION.
- 13.6 UPON COMPLETON AND ACESTANCE OF WORK, THE CONTRACTOR SALE, IURRISH WITHER INSTINCTIONS AND EQUIPMENT MANUALS AND DEMONSTRATE THE PROPER OPERATIONS AND MAINTENANCE OF ALL EQUIPMENT AND APPARATUS FURNISHED UNDER THIS CONTRACT.



G-2.00

GENERAL NOTES AND SYMBOLS

APPENDIX D WDNR Technical Standards

Seeding For Construction Site Erosion Control

(1059)

Wisconsin Department of Natural Resources Conservation Practice Standard

I. Definition

Planting seed to establish temporary or permanent vegetation for erosion control.

II. Purpose

The purpose of *temporary seeding*¹ is to reduce runoff and erosion until permanent vegetation or other erosion control practices can be established. The purpose of *permanent seeding* is to permanently stabilize areas of exposed soil.

III. Conditions Where Practice Applies

This practice applies to areas of exposed soil where the establishment of vegetation is desired. Temporary seeding applies to disturbed areas that will not be brought to final grade or on which land-disturbing activities will not be performed for a period greater than 30 days, and requires vegetative cover for less than one year. Permanent seeding applies to areas where perennial vegetative cover is needed.

IV. Federal, State and Local Laws

Users of this standard shall be aware of all applicable federal, state and local laws, rules, regulations or permit requirements governing seeding. This standard does not contain the text of federal, state or local laws.

V. Criteria

This section establishes the minimum standards for design, installation and performance requirements.

A. Site and Seedbed Preparation

Site preparation activities shall include:

1. Temporary Seeding

- a. Temporary seeding requires a seedbed of loose soil to a minimum depth of 2 inches.
- Fertilizer application is not generally required for temporary seeding. However, any application of fertilizer or lime shall be based on soil testing results.
- c. The soil shall have a pH range of 5.5 to 8.0.

2. Permanent Seeding

- Topsoil installation shall be completed prior to permanent seeding.
- b. Permanent seeding requires a seedbed of loose topsoil to a minimum depth of 4 inches with the ability to support a *dense* vegetative cover.
- c. Application rates of fertilizer or lime shall be based on soil testing results.
- d. Prepare a tilled, fine, but firm seedbed. Remove rocks, twigs foreign material and clods over two inches that cannot be broken down.
- e. The soil shall have a pH range of 5.5 to 8.0.

B. Seeding

1. Seed Selection

- Seed mixtures that will produce dense vegetation shall be selected based on soil and site conditions and intended final use. Section IX References, lists sources containing suggested seed mixtures.
- b. All seed shall conform to the requirements of the Wisconsin Statutes and of the Administrative Code Chapter ATCP 20.01 regarding noxious weed seed content and labeling.
- Seed mixtures that contain potentially invasive species or species that may be harmful to native plant communities shall be avoided.
- d. Seed shall not be used later than one year after the test date that appears on the label.
- e. Seed shall be tested for purity, germination and noxious weed seed content and shall meet the minimum purity and germination requirements as prescribed in the current edition of Rules for Testing Seed, published by the Association of Official Seed Analysts.

2. Seed Rates

a. Temporary Seeding (Cover Crop)

Areas needing protection during periods when permanent seeding is not applied shall be seeded with annual species for temporary protection. See Table 1 for seeding rates of commonly used species. The residue from this crop may either be incorporated into the soil during seedbed preparation at the next permanent seeding period or left on the soil surface and the planting made as a no-till seeding.

Table 1 Temporary Seeding Species and Rates

Species	Lbs/Acre	Percent Purity
Oats	131 ¹	98
Cereal Rye	131 ²	97
Winter wheat	131 ²	95
Annual Ryegrass	80 ²	97

Spring and summer seeding

b. Permanent Seeding

Rates shall be based on pounds or ounces of Pure Live Seed (PLS) per acre. Section IX contains some possible reference documents that provide seeding rates. Permanent seeding rates may be increased above the minimum rates shown in the reference documents to address land use and environmental conditions.

If a *nurse crop* is used in conjunction with permanent seeding, the nurse crop shall not hinder establishment of the permanent vegetation.

A nurse crop shall be applied at 50% its temporary seeding rate when applied with permanent seed.

3. Inoculation

Legume seed shall be inoculated in accordance with the manufacturer's recommendations. Inoculants shall not be mixed with liquid fertilizer.

4. Sowing

Seed grasses and legumes no more than ¼ inch deep. Distribute seed uniformly. Mixtures with low seeding rates require special care in sowing to achieve proper seed distribution.

Seed may be broadcast, drilled, or hydroseeded as appropriate for the site.

Seed when soil temperatures remain consistently above 53° F. *Dormant seed* when the soil temperature is consistently below 53° F (typically

² Fall seeding

Nov. 1st until snow cover). Seed shall not be applied on top of snow.

VI. Considerations

- A. Consider seeding at a lower rate and making two passes to ensure adequate coverage.
- B. Compacted soil areas may need special site preparation prior to seeding to mitigate compaction. This may be accomplished by chisel plowing to a depth of 12 inches along the contour after heavy equipment has left the site.
- C. Sod may be considered where adequate watering is available.
- D. When working in riparian areas refer to the NRCS Engineering Field Handbook, Chapter 16, Streambank and Shoreline Protection and Chapter 18, Soil Bioengineering for Upland Slope Protection and Erosion Reduction.
- E. A site assessment should be conducted to evaluate soil characteristics, topography, exposure to sunlight, proximity to natural plant communities, proximity to nuisance, noxious and/or invasive species, site history, moisture regime, climatic patterns, soil fertility, and previous herbicide applications.
- F. Use introduced species only in places where they will not spread into existing natural areas.
- G. Lightly roll or compact the area using suitable equipment when the seedbed is judged to be too loose, or if the seedbed contains clods that might reduce seed germination.
- H. See Section IX. References for suggested seed mixes (NRCS, WisDOT, UWEX) or use their equivalent.
- I. Turf seedlings should not be mowed until the stand is at least 6 inches tall. Do not mow closer than 3 inches during the first year of establishment.
- J. Seeding should not be done when the soil is too wet.

- K. Consider watering to help establish the seed. Water application rates shall be controlled to prevent runoff and erosion.
- L. Prairie plants may not effectively provide erosion control during their establishment period without a nurse crop.
- M. Topsoil originating from agricultural fields may contain residual chemicals. The seedbed should be free of residual herbicide or other contaminants that will prevent establishment and maintenance of vegetation. Testing for soil contaminants may be appropriate if there is doubt concerning the soil's quality.
- N. Consider using mulch or a nurse crop if selected species are not intended for quick germination. When mulching refer to WDNR Conservation Practice Standard Mulching for Construction Sites (1058).

VII. Plans and Specifications

Plans and specifications for seeding shall be in keeping with this standard and shall describe the requirements for applying this practice.

All plans, standard detail drawings, or specifications shall include schedule for installation, inspection, and maintenance. The responsible party shall be identified.

VIII. Operation and Maintenance

- A. During construction areas that have been seeded shall at a minimum be inspected weekly and within 24 hours after every precipitation event that produces 0.5 inches of rain or more during a 24-hour period. Inspect weekly during the growing season until vegetation is densely established or permit expires. Repair and reseed areas that have erosion damage as necessary.
- B. Limit vehicle traffic and other forms of compaction in areas that are seeded.
- C. A fertilizer program should begin with a soil test. Soil tests provide specific fertilizer recommendations for the site and can help to avoid over-application of fertilizers.

IX. References

A. Seed Selection References

United States Department of Agriculture – Natural Resource Conservation Service Field Office Technical Guide Section IV, Standard 342, Critical Area Planting.

UWEX Publication A3434 Lawn and Establishment & Renovation.

WisDOT, 2003. State of Wisconsin Standard Specifications For Highway and Structure Construction. Section 630, Seeding.

B. General References

Association of Official Seed Analysts, 2003. Rules for Testing Seed. http://www.aosaseed.com.

Metropolitan Council, 2003. Urban Small Sites Best Management Practice Manual, Chapter 3, Vegetative Methods 3-85 – 3-91. Minneapolis.

The State of Wisconsin list of noxious weeds can be found in Statute 66.0407.

United States Department of Agriculture – Natural Resources Conservation Service. Engineering Field Handbook, Chapters 16 and 18.

UWEX Publication GWQ002 Lawn & Garden Fertilizers.

X. Definitions

Dense (V.A.2.b) A stand of 3-inch high grassy vegetation that uniformly covers at least 70% of a representative 1 square yard plot.

Dormant seed (V.B.4): Seed is applied after climatic conditions prevent germination until the following spring.

Introduced Species (VI.F) Plant species that historically would not have been found in North America until they were brought here by travelers from other parts of the world. This would include smooth bromegrass and alfalfa. Some of these species may have a wide distribution such as Kentucky bluegrass.

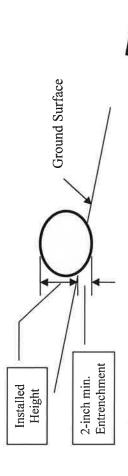
Nurse Crop (V.B.2.b): Also known as a companion crop; is the application of temporary (annual) seed with permanent seed.

Permanent seeding (II) Seeding designed to minimize erosion for an indefinite period after land disturbing construction activities have ceased on the site.

Soil Bioengineering (VI.D) Practice of combining mechanical, biological and ecological concepts to arrest and prevent shallow slope failures and erosion.

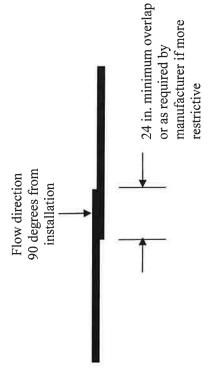
Temporary Seeding (II) Seeding designed to control erosion for a time period of one year or less that is generally removed in order to perform further construction activities or to permanently stabilize a construction site.

Topsoil (V.A.2.a) Consists of loam, sandy loam, silt loam, silty clay or clay loam humus-bearing soils adapted to sustain plant life with a pH range of 5.5 – 8.0. Manufactured topsoil shall through the addition of sand or organic humus material, peat, manure or compost meet the above criteria.



Note: Installed height is measured from the upslope ground surface to the top of the product. Due to settlement and/or deformation, the installed height may not be equivalent to the nominal diameter of the product.

CROSS SECTION



TYPICAL INSTALLATION (Plan View)

Flow
Direction

Direction

A

Flow

Direction

A

Flow

Can in minimum overlap in contact

Notes:

- 1. J-hooks shall be installed so that the ground-product interface elevation at location B is higher than the top of product elevation at location A to create a weir at point A.
- 2. J-hooks shall be installed every 2 vertical feet of drop along the length of the installation.
- 3. Stake overlap as required by manufacturer.

SLOPING INSTALLATION

(Plan View)

LOG-TYPE PRODUCT INSTALLATION ILLUSTRATION FIGURE 1

Silt Fence

(1056)

Wisconsin Department of Natural Resources Conservation Practice Standard

I. Definition

Silt fence is a temporary sediment barrier of entrenched permeable geotextile fabric designed to intercept and slow the flow of sediment-laden sheet flow runoff from small areas of disturbed soil.

II. Purpose

The purpose of this practice is to reduce slope length of the disturbed area and to intercept and retain transported sediment from disturbed areas.

III. Conditions Where Practice Applies

- A. This standard applies to the following applications:
 - 1. Erosion occurs in the form of *sheet and* rill erosion¹. There is no concentration of water flowing to the barrier (*channel* erosion).
 - 2. Where adjacent areas need protection from sediment-laden runoff.
 - 3. Where effectiveness is required for one year or less.
 - Where conditions allow for silt fence to be properly entrenched and staked as outlined in the Criteria Section V.
- B. Under no circumstance shall silt fence be used in the following applications:
 - Below the ordinary high watermark or placed perpendicular to flow in streams, swales, ditches or any place where flow is concentrated.
 - 2. Where the maximum gradient upslope of the fence is greater than 50% (2:1).

IV. Federal, State, and Local Laws

Users of this standard shall be aware of applicable federal, state, and local laws, rules, regulations, or permit requirements governing the use and placement of silt fence. This standard does not contain the text of federal, state, or local laws.

V. Criteria

This section establishes the minimum standards for design, installation and performance requirements.

A. Placement

 When installed as a stand-alone practice on a slope, silt fence shall be placed on the contour. The parallel spacing shall not exceed the maximum slope lengths for the appropriate slope as specified in Table 1.

Table 1.		
Slope	Fence Spacing	
< 2%	100 feet	
2 to 5%	75 feet	
5 to 10%	50 feet	
10 to 33%	25 feet	
> 33%	20 feet	

- 2. Silt fences shall not be placed perpendicular to the contour.
- The ends of the fence shall be extended upslope to prevent water from flowing around the ends of the fence.
- B. Height Installed silt fences shall be a minimum 14 inches high and shall not exceed 28 inches in height measured from the installed ground elevation.

- C. Support Silt fences shall be supported by either steel or wood supports as specified below:
 - 1. Wood supports
 - a. The full height of the silt fence shall be supported by 1 1/8 inches by 1 1/8 inches air or kiln dried posts of hickory or oak.
 - b. The silt fence fabric shall be stapled, using at least 0.5-inch staples, to the upslope side of the posts in at least 3 places.
 - c. The posts shall be a minimum of 3 feet long for 24-inch silt fence and a minimum of 4 feet for 36-inch silt fence fabric.

2. Steel supports

- a. The full height of the silt fence shall be supported by steel posts at least 5 feet long with a strength of 1.33 pounds per foot and have projections for the attachment of fasteners.
- The silt fence fabric shall be attached in at least three places on the upslope side with 50 pound plastic tie straps or wire fasteners.
 To prevent damage to the fabric from fastener, the protruding ends shall be pointed away from the fabric.
- The maximum spacing of posts for nonwoven silt fence shall be 3 feet and for woven fabric 8 feet.
- 4. Silt fence shall have a support cord.
- 5. Where joints are necessary, each end of the fabric shall be securely fastened to a post. The posts shall then be wrapped around each other to produce a stable, secure joint or shall be overlapped the distance between two posts.
- A minimum of 20 inches of the post shall extend into the ground after installation.

D. Anchoring – Silt fence shall be anchored by spreading at least 8 inches of the fabric in a 4 inch wide by 6 inch deep trench, or 6 inch deep V-trench on the upslope side of the fence. The trench shall be backfilled and compacted. Trenches shall not be excavated wider and deeper than necessary for proper installation.

On the terminal ends of silt fence the fabric shall be wrapped around the post such that the staples are not visible.

E. Geotextile Fabric Specifications – The geotextile fabric consists of either woven or non-woven polyester, polypropylene, stabilized nylon, polyethylene, or polyvinylidene chloride. Non-woven fabric may be needle punched, heat bonded, resin bonded, or combinations thereof. All fabric shall meet the following requirements as specified in Table 2.

T	able 2.	
Test Requirement	Method	Value
Minimum grab tensile strength in the machine direction	ASTM D 4632	120 lbs. (550 N)
Minimum grab tensile strength in the cross machine direction	ASTM D 4632	100 lbs. (450 N)
Maximum apparent opening size equivalent standard sieve	ASTM D 4751	No. 30 (600 μm)
Minimum permittivity	ASTM D 4491	0.05 scc ⁻¹
Minimum ultraviolet stability percent of strength retained after 500 hours of exposure	ASTM D 4355	70%

(WisDOT Standard Specifications for Road and Bridge Construction, 2001)

Silt fence shall have a maximum flow rate of 10-gallons/minute/square foot at 50mm constant head as determined by multiplying permittivity in 1/second as determined by ASTM D-4491 by a conversion factor of 74.

F. Removal – Silt fences shall be removed once the disturbed area is permanently stabilized and no longer susceptible to erosion.

¹ All numerical values represent minimum / maximum average roll values. (For example, the average minimum test results on any roll in a lot should meet or exceed the minimum specified values.)

VI. Considerations

- A. Improper placement as well as improper installation and maintenance of silt fences will significantly decrease the effectiveness of this practice.
 - Silt fences should be considered for trapping sediment where sheet and rill erosion may be expected to occur in small drainage areas. Silt fences should not be placed in areas of concentrated flow.
- B. Silt fences should be installed prior to disturbing the upslope area.
- C. Silt fences should not be used to define the boundaries of the entire project. Silt fence should be placed only in areas where it is applicable due to its cost and the fact that it is not biodegradable. For example, silt fence should not be placed in locations where the natural overland flow is from an undisturbed area into disturbed areas of the project. It should also not be used as a diversion.
- D. Silt fence should not be used in areas where the silt fence is at a higher elevation than the disturbed area.
- E. When placing silt fence near trees, care should be taken to minimize damage to the root system. Avoid compaction and root cutting within 1.5 feet multiplied by the inch diameter of the tree (for example: for 10-inch trees keep out a 15-foot radius from the trunk). Refer to UWEX publication Preserving Trees During Construction for more information.
- F. To protect silt fence from damage in areas of active construction or heavy traffic, silt fence should be flagged, marked, or highlighted to improve visibility.
- G. Silt fence effectiveness is generally increased when used in conjunction with other upslope erosion control practices. To further strengthen the silt fence, straw / hay bales can be placed on the down slope side.
- H. To help ensure effectiveness, silt fence should be inspected and repaired as necessary prior to forecasted rain events.

- Where installation with wood posts is difficult, such as when hard or frozen ground is encountered, the use of steel post is recommended.
- J. Silt fence can be mechanically installed with a plow type device provided that the silt fence is trenched in a manner such that equivalent performance is achieved to that specified in Section V.D.

VII. Plans and Specifications

- A. Plans and specifications for installing silt fence shall be in keeping with this standard and shall describe the requirements for applying the practice to achieve its intended purpose. The plans and specifications shall address the following:
 - 1. Location of silt fence
 - 2. Contributory drainage area
 - 3. Schedules
 - 4. Material specification conforming to standard
 - Standard drawings and installation details
 - 6. Restoration after removal
- B. All plans, standard detail drawings, or specifications shall include schedule for installation, inspection, and maintenance. The responsible party shall be identified.

VIII. Operation and Maintenance

- A. Silt fences shall at a minimum be inspected weekly and within 24 hours after every precipitation event that produces 0.5 inches of rain or more during a 24 hour period.
- B. Damaged or decomposed fences, undercutting, or flow channels around the end of barriers shall be repaired or corrected.
- C. Sediment shall be properly disposed of once the deposits reach ½ the height of the fence.

IX. References

UWEX Publication A0327 "Preserving Trees During Construction"

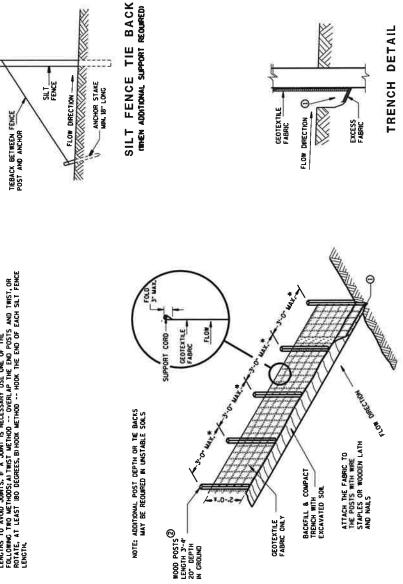
X. Definitions

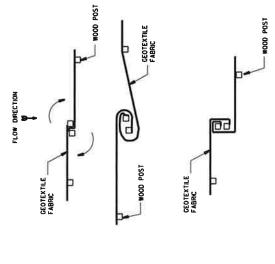
Channel Erosion (III.A.1): The deepening and widening of a channel due to soil loss caused by flowing water. As rills become larger and flows begin to concentrate, soil detachment occurs primarily as a result of shear.

Sheet and Rill Erosion (III.A.1): Sheet and rill erosion is the removal of soil by the action of rainfall and shallow overland runoff. It is the first stage in water erosion. As flow becomes more concentrated rills occur. As soil detachment continues or flow increases, rills will become wider and deeper forming gullies.

GENERAL NOTES

- TRENCH SHALL BE A WANDAUM OF 4" WDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC, FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ② WOOD POSTS SHALL BE A MINIMUM SIZE OF 1/6" x 1/6" OF OAK OR HCKORY.
- © CONSTRUCT SLT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING
 LENGTHS TO AVOID JOINTS, IF A JOINT IS NECESSARY USE ONE OF THE
 FOLLOWING TWO METHODS; AT TWIST METHOD -- OVERLAP THE END POSTS AND TWIST, OR
 ROTATE, AT LEAST 180 DEGREES, BI HOOK METHOD -- HOOK THE END OF EACH SLT FENCE
 LENGTH,





STATE OF THE PERSON AND ADDRESS OF THE PERSON ADDR

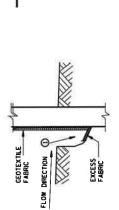
SILT

ANCHOR STAKE MIN. 18" LONG

TWIST METHOD

FLOW DIRECTION

GEOTEXTILE FABRIC



TRENCH DETAIL

*NOTE: 8'-O" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

JOINING TWO LENGTHS OF SILT FENCE ® HOOK METHOD

GEOTEXTILE FABRIC

7-0" MIN.

WOOD POST

This drawing based on Wisconsin Department of Transportation Standard Detail Drawing 8 E 9-6.

SLT FENCE

Mulching For Construction Sites

(1058)

Wisconsin Department of Natural Resources Conservation Practice Standard

I. Definition

Mulching is the application of organic material to the soil surface to protect it from raindrop impact and overland flow. Mulch covers the soil and absorbs the erosive impact of rainfall and reduces the flow velocity of runoff.

II. Purpose

This practice may be used to:

- Reduce soil erosion
- Aid in seed germination and establishment of plant cover
- Conserve soil moisture

III. Conditions Where Practice Applies

This practice may be applied on exposed soils as a temporary control where soil grading or landscaping has taken place or in conjunction with temporary or permanent seeding. Mulching is generally not appropriate in areas of concentrated flow.

IV. Federal, State, and Local Laws

Users of this standard shall comply with applicable federal, state and local laws, rules, regulations or permit requirements governing mulching. This standard does not contain the text of federal, state, or local laws.

V. Criteria

This section establishes the minimum standards for design, installation and performance requirements.

A. Site Preparation:

Soil surface shall be prepared prior to the application of mulch in order to achieve the desired purpose and to ensure optimum contact between soil and mulch. All areas to be mulched shall be reasonably free of rills and gullies.

B. Materials:

Mulch shall consist of natural biodegradable material such as plant residue (including but not limited to straw, hay, wood chips, bark and wood cellulose fiber), or other equivalent materials of sufficient dimension (depth or thickness) and durability to achieve the intended effect for the required time period.

Mulch shall be environmentally harmless to wildlife and plants. Materials such as gravel, plastic, fabric, sawdust, municipal solid waste, *solid waste byproducts*¹, shredded paper, and non-biodegradable products shall not be used.

Mulch shall be free of diseased plant residue (i.e. oak wilt), *noxious weed* seeds, harmful chemical residues, heavy metals, hydrocarbons and other known environmental toxicants.

Marsh hay shall not be used as mulch in lowland areas but may be used on upland sites to prevent the spread of invasive, nonnative species (i.e. reed canary grass) commonly found in marsh hay.

Straw and hay mulch that will be crimped shall have a minimum fiber length of 6 inches.

Wood chips or wood bark shall only be used for sites that are not seeded.

C. Application Rate:

- Mulch shall cover a minimum of 80% of the soil surface for unseeded areas.
 For seeded areas, mulch shall be placed loose and open enough to allow some sunlight to penetrate and air to circulate but still cover a minimum of 70% of the soil surface.
- 2. Mulch shall be applied at a uniform rate of 1½ to 2 tons per acre for sites that are seeded, and 2 to 3 tons per acre for sites that are not seeded. This application results in a layer of ½ to 1½ inches thick for seeded sites, and 1½ to 3 inches thick for sites not seeded.
- 3. Wood chips or wood bark shall be applied at a rate of 6 to 9 tons per acre to achieve a minimum of 80% ground cover. This application should result in a layer of wood chips or wood bark ½ to 1½ inches thick.

D. Mulch Anchoring Methods

Anchoring of mulch shall be based on the type of mulch applied, site conditions, and accomplished by one of the following techniques:

1. Crimping

Immediately after spreading, the mulch shall be anchored by a mulch crimper or equivalent device consisting of a series of dull flat discs with notched edges spaced approximately 8 inches apart. The mulch shall be impressed in the soil to a depth of 1 to 3 inches.

2. Polypropylene Plastic, or Biodegradable Netting

Apply plastic netting over mulch application and staple according to manufacturer's recommendations.

3. Tackifier

Tackifier shall be sprayed in conjunction with mulch or immediately

after the mulch has been placed. Tackifiers must be selected from those that meet the WisDOT Erosion Control Product Acceptability List (PAL). Asphalt based products shall not be applied.

The tackifiers shall be applied at the following minimum application rates per acre:

- a. Latex-Base: mix 15 gallons of adhesive (or the manufacturer's recommended rate which ever is greater) and a minimum of 250 pounds of recycled newsprint (pulp) as a tracer with 375 gallons of water.
- Guar Gum: mix 50 pounds of dry adhesive (or the manufacturer's recommended rate which ever is greater) and a minimum of 250 pounds of recycled newsprint (pulp) as tracer with 1,300 gallons of water.
- e. Other Tackifiers: (Hydrophilic Polymers) mix 100 pounds of dry adhesive (or the manufacturer's recommended rate which ever is greater) and a minimum of 250 pounds of recycled newsprint (pulp) as a tracer with 1,300 gallons of water.

VI. Considerations

- A. Wood products typically absorb available soil nitrogen as they degrade, thus making it unavailable for seed.
- B. The use of mulch behind curb and gutter may not be desirable unless anchored by netting, because air turbulence from nearby traffic can displace the mulch. Consider the use of erosion mat or sod as an alternative.
- C. In areas where lawn type turf will be established, the use of tackifiers is the preferred anchoring method. Crimping will tend to leave an uneven surface and plastic netting can become displaced and entangled in mowing equipment.

- D. A heavier application of mulch may be desired to prevent seedlings from being damaged by frost.
- E. It may be beneficial to apply polyacrylimide in addition to mulch. Refer to WDNR Conservation Practice Standard (1050) Erosion Control Land Application of Anionic Polyacrylamide for information about the advantages and proper use of polymers.
- F. Concentrated flows above the site where mulch is applied should be diverted.
- G. Mulch should be placed within 24 hours of seeding.
- H. Mulching operations should not be performed during periods of excessively high winds that would preclude the proper placement of mulch.
- Materials such as gravel may be effective for erosion control but are not considered mulches.

VII. Plans and Specifications

- A. Plans and specifications for mulching shall be in keeping with this standard and shall describe the requirements for applying the practice to achieve its intended purpose. The plans and specifications shall address the following:
 - 1. Type of mulch used
 - 2. Application rate
 - 3. Timing of application
 - 4. Method of anchoring
- All plans, standard detail drawings, or specifications shall include schedules for installation, inspection, and maintenance.
 The responsible party shall be identified.

VIII.Operation and Maintenance

Mulch shall, at a minimum, be inspected weekly and within 24 hours after every precipitation event that produces 0.5 inches of rain or more during a 24 hour period.

Mulch that is displaced shall be reapplied and properly anchored. Maintenance shall be completed as soon as possible with consideration to site conditions.

IX. References

WisDOT's Erosion Control Product Acceptability List (PAL) can be found on the WisDOT web site:

http://www.dot.wisconsin.gov/business/engrserv/ pal.htm Printed copies are no longer being distributed.

X. Definitions

Noxious weed (V.B): Any weed a governing body declares to be noxious within its respective boundaries. The State of Wisconsin list of noxious weeds can be found in Statute 66.0407.

Solid Waste Byproducts (V.B): Includes industrial, commercial, residential, and agricultural wastes that have been processed, incinerated, or composted and still contain inorganic wastes such as glass and metals and organic wastes including plastics, textiles, rubber, leather, and other miscellaneous organic wastes which may be toxic or hazardous in nature.

Wisconsin Department of Natural Resources Conservation Practice Standard Non-Channel Erosion Mat 1052

DEFINITION

A protective soil cover made of straw, wood, coconut fiber or other suitable plant residue, or plastic fibers formed into a mat, usually with a plastic or biodegradable mesh on one or both sides. Erosion mats are rolled products available in many varieties and combinations of material and with varying life spans.

PURPOSE

The purpose of this practice is to protect the soil surface from the erosive effect of rainfall and prevent erosion during the establishment of grass or other vegetation, and to reduce soil moisture loss due to evaporation. This practice applies to both *Erosion Control Revegetative Mats* (*ECRM*) and *Turf-Reinforcement Mats* (*TRM*).

CONDITIONS WHERE PRACTICE APPLIES

This standard applies to erosion mat selection for use on erodible slopes.

This standard is not for *channel* erosion. For channel applications, reference WDNR Conservation Practice Standard (1053) Channel Erosion Mat.

Be aware of applicable federal, state, and local laws, rules, regulations, or permit requirements governing the use and placement of erosion mat. This standard does not contain the text of federal, state, or local laws.

CRITERIA

Products

Use erosion mat products identified on the Wisconsin Department of Transportation (WisDOT) Erosion Control Product Acceptability List (PAL).

<u>Selection</u>

Use WisDOT PAL classes and types to select and specify erosion mat.

Select the appropriate erosion mat based on site specific slope and slope length conditions in accordance with the WisDOT Facilities Development Manual (FDM Section 10-5) Slope Erosion Control Matrix.

Select erosion mat that will last long enough for turf grass or other vegetation to become densely established.

Use only mats containing exclusively organic material (no plastic) in or near waterways or other sensitive areas.

Conservation Practice Standards are reviewed periodically and updated if needed. To obtain the current version of this standard, contact your local WDNR office or the Standards Oversight Council office in Madison, WI at (608) 441-2677.

WDNR November 2018

¹ Words in the standard that are shown in italics are described in the Definitions section. The words are italicized the first time they are used in the text.

Installation

Install and anchor erosion mat in accordance with manufacturer's instructions.

At the time of installation, retain material labels and manufacturer's installation instructions until the site has been stabilized.

Install ECRMs after topsoil is placed and seeding is complete.

Install TRMs in conjunction with placement of topsoil, followed by ECRM installation.

Install erosion mat so that it bears completely on the soil surface.

Use staples that are at least 6 inches long.

Do not install Class I or Class II - Type B products that incorporate photo- or bio-degradable netting after September 1st of a given year.

CONSIDERATIONS

Use Class I Urban mats in locations where shortly mowed turf grasses are to be established.

ECRMs without topsoiling and seeding can be used for temporary soil stabilization during the non-growing season or for periods of inactivity.

Slope interruption products that are designed, installed and maintained in accordance with DNR Interim Manufactured Perimeter Control and Slope Interruption Products Technical Standard 1071 can be used to reduce slope length.

Some erosion mat products can have detrimental effects on local wildlife. Plastic netting without independent movement of strands can easily entrap small animals moving through the area, leading to dehydration, desiccation, and eventually mortality. Netting that contains biodegradable thread with the "leno" or "gauze" weave (contains strands that can move independently) have the least impact on wildlife.

PLANS AND SPECIFICATIONS

Prepare plans and specifications in accordance with the criteria of this standard and describe the requirements for applying the practice to achieve its intended use.

OPERATION AND MAINTENANCE

Inspect erosion mat at least weekly and within 24 hours after every precipitation event that produces 0.5 inches of rain or more during a 24-hour period.

If there are signs of rilling under the mat, install more staples or more frequent anchoring trenches. If rilling becomes severe enough to prevent establishment of vegetation, remove the section of mat where the damage has occurred. Fill the eroded area with topsoil, compact, reseed and replace the section of mat, trenching and overlapping ends per manufacturer's recommendations. Additional staking is recommended near where rilling was filled.

In situations where soil type, topography, or other conditions result in poor observed performance, use multiple practices such as adding mulch under the mat, or installing appropriately placed check devices to reduce local velocity.

If the reinforcing plastic netting has separated from the mat, remove the plastic and if necessary replace the mat.

Complete maintenance as soon as possible with consideration to site conditions.

REFERENCES

WisDOT "Erosion Control Product Acceptability List" is available online at:

http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/tools/pal/default.aspx

DEFINITIONS

Erosion Control Revegetative Mats (ECRM) (II): A blanket like covering laid on top of a prepared seed bed to protect the soil and seed from the erosive forces of nature.

Turf-Reinforcement Mats (TRM) (II): Helps to permanently stabilize the soil by acting as reinforcement for the roots of the vegetation. This open weaved, synthetic mat is installed on top of soil and filled with topsoil and seeded. As the vegetation grows, the roots intertwine into the mat and reinforces the turf.

Channel: A constructed swale or ditch designed to convey storm water.

Waterways: Natural watercourses such as lakes or streams.

APPENDIX E Construction Site Inspection Form

State of Wisconsin Department of Natural Resources (DNR) PO Box 7921, Madison WI 53707-7921 dnr.wi.gov

CONSTRUCTION SITE INSPECTION REPORT

Page 1 of 2

Form 3400-187 (R 11/16)

Notice: This form was developed in accordance with s. NR 216.48 Wis. Adm. Code for WPDES permittees' convenience, however, use of this specific form is voluntary. Multiple copies of this form may be made to compile the inspection report. Inspections of the construction site and implemented erosion and sediment control best management practices (BMPs) must be performed weekly and within 24 hours after a rainfall event 0.5 inches or greater.

Construction Site Name and Location (Project, Municipality, and	oality, a	nd County):		Site/Facility ID No. (FIN):	
Onsite Contact/Contractor:				Onsite Phone/Cell:	
Note: Inspection reports, along with erosion control and storm water management plans, are required to be maintained on site in accordance with s. NR 216.48 (4) and made available upon request. PLEASE PRINT LEGIBLY.	d stor	n water management plans, ar IBLY.	re required to be maintained on sit	e in accordance with s. NR.	216.48 (4)
Date of inspection: Time of Start: Start: End:	Time of inspecti Start: End:	ection: O am O pm O am O pm	Type of inspection: Weekly	O Precipitation Event	Other (specify)
Weather/Site Conditions: Temp. °F Antecedent O Variable O Soil Moisture O Wet O Last Rainfall Depth:	Frozen or Frozen (Th	snow covere law predicted	Describe current phase of construction: Scheduled Final Stabilization Date for Universal Soil Loss Equation (USLE) 1:	ruction: for Universal Soil Loss Equati	on (USLE) 1:
Last Rainfall Date:			Project on Schedule ² ? Yes	O No	
Name(s) of individual(s) performing inspection:			Inspector Phone/Cell:		
I certify that the information contained on this form is an accurate assessment of site conditions at the time of inspection:	s an ac	curate assessment of site co	nditions at the time of inspection:		
Inspector Signature_			Date:		
Inspection Questions:	Yes	No (Identify Actions Required):		Location/Comments:	Actions Completed by Date & Initials
1. Is the erosion control plan accessible to operators?		☐ Provide onsite copy			
2. Is the permit certificate posted where visible?		☐ Post certificate			
 Is the current phase of construction on sequence with the site-specific erosion and sediment control plan, including installation/stabilization of ponds and ditches? 		Add sediment control Install missing ditch/pipe/pond Stabilize bare soil	р		
4. Are all erosion and sediment control BMPs shown on plan properly installed and in functional condition?		☐ Repair ☐ Modify ☐ Install/Replace			
5. Is inlet protection properly installed and functioning in all inlets likely to receive runoff from the site?		☐ Clean ☐ Replace ☐ Install			
Is the air free of fugitive dust resulting from construction activity and bare soil exposure?		☐ Apply water ☐ Apply dust control product			

¹ The Universal Soil Loss Equation (USLE) model and the Construction Site Soil Loss and Sediment Discharge Guidance are available at: http://dnr.wi.gov/topic/stormwater/standards/const_standards.html ² If the project is not on schedule then the soil loss summary for the project should be reviewed and schedule, plan or practices modified accordingly.

State of Wisconsin Department of Natural Resources dnr.wi.gov

Page 2 of 2 CONSTRUCTION SITE INSPECTION REPORT Form 3400-187 (R 11/16) Page 2 of 2

<u> </u>	Inspection Questions:	Yes	No (Identify Actions Required): Location/Comments: by Date	Actions Completed by Date & Initials
7	Is the public right of way curb line free of tracked soil and accumulation?		 ☐ Install tracking pad ☐ Widen/lengthen pad ☐ Amend stone/Add geotextile ☐ Install wheel washing station ☐ Close entrance/exit ☐ Limit traffic across disturbed areas ☐ Sweep road and curb line 	
œi	Are wetlands, lakes, streams, ditches, or storm sewers downstream of the site free of sedimentation and turbid water leaving the site? ³		 ☐ Repair/Replace erosion control ☐ Add sediment controls ☐ Modify operations ☐ Contact DNR to verify extent of cleanup required 	
တ်	Is dewatering and/or vehicle and equipment washing being done in a manner that prevents erosion and sediment discharge?		 ☐ Install treatment train ☐ Install energy dissipation ☐ Modify discharge location ☐ Modify intake to reduce sediment 	
10.	Are soil stockpiles existing for more than 7 days covered and stabilized?		Seed Install mat/mulch/polymer Cover with tarp/plastic sheeting	
1.	Are downstream channels and other downhill areas protected from scour and erosion?		☐ Install energy dissipation at outfall ☐ Install ditch checks ☐ Install slope interruption ☐ Install onsite detention	
15.	Are good housekeeping practices or treatment controls in place to prevent the discharge of chemicals, cement, trash, and other materials into wetlands, waterways, storm sewers, ditches, or drainage-ways?		☐ Properly dispose of trash ☐ Provide concrete washout station ☐ Contact DNR to verify extent of cleanup required	
13.	Is the plan reflective of current site operations and does it address all erosion and sediment control issues identified during the inspection?		 ☐ Revise sequence ☐ Revise sediment control BMP ☐ Revise erosion control BMP ☐ Revise post-construction storm water BMP 	
14.	Are all areas where construction has temporarily ceased (and will not resume for more than 2 weeks) temporarily stabilized?		☐ Topsoil & seed ☐ Install mat/mulch/polymer ☐ Cover with tarp/plastic sheeting	
15.	Are all areas at final grade permanently vegetated or stabilized with other treatments?		☐ Topsoil & seed ☐ Install mat/mulch/polymer ☐ Sod ☐ Install stone base	
16.	Have temporary sediment controls been removed in areas of the site that meet the permit definition of 'final stabilization'?		 ☐ Water to establish vegetation ☐ Repair or reseed areas ☐ Remove temporary practices 	

³ if sediment discharge enters a wetland or waterbody, the permittee should consult with DNR staff to determine if sediment cleanup and/or additional control measures are required.

⁴ The permittee shall notify the DNR immediately via the spills hotline at (800)943-0003 of any release or spill of a hazardous substance to the environment in accordance with s. 292.11, Wis. Stats., and ch. NR 706, Wis. Adm. Code.

Land Resources and Parks Department Staff Report

County Conditional Use Permit Application # 2022-0821

Filing Date: September 29, 2022 Hearing Date: November 14, 2022

Applicant /Owner:

Skalitzky Drainage LLC N8274 Moungey Ln Waterloo, Wi 53594

Location

PIN #: 014-1013-3634-000; 3633-001; 3631-000 and 3624-001;

Location: Part of the SE ¼ of the SW ¼, Section 36, Town of Elba, the site address being N2566 Benninger Road.

Applicants Request

An application for a County Conditional Use Permit under the Dodge County Land Use Code, was made by the applicant to allow for the creation of an approximate 2.5-acre nonfarm single family residential lot within the A-1 Prime Agricultural Zoning District. The proposed 2.5-acre lot contains the existing farm buildings and residence which are intended for non-farm residential use. The remaining 116+acres of farmland will remain in agricultural use at this time.

County Jurisdiction

The County has Zoning Jurisdiction over this site as the Town of Elba has adopted the County's Land Use Code.

Review Criteria

- 1. Subsections 2.3.6.A through 2.3.6.H of the Land Use Code details procedural matters, the approval criteria and the form for the conditional use permit application.
- 2. According to Section 3.7.4 of the Code, the Committee may authorize the Land Use Administrator to issue a Conditional Use Permit (CUP) for those conditional uses listed under Section 3.7.2 of this Code after review and a public hearing, provided that such conditional uses are in accordance with Section 2.3.6 of this Code and Wis. Stats. 91.46.

Land Use Code Provisions:

1. Section 3.7.2.D of the Land Use Code identifies proposals that convert a farm residence to a nonfarm residence through a change in occupancy as a conditional use in the A-1 Prime Agricultural Zoning District provided the proposal complies with the requirements listed in 3.7.2.D.1 through 3.7.2.D.3.

Purpose Statement

The purpose of the A-1 Prime Agricultural Zoning District is to promote areas for uses of a generally exclusive agricultural nature in order to protect farmland, allow participation in the state's farmland preservation program, and accommodate changing practices in the agricultural industry, subject to appropriate standards.

Physical Features of Site

The features of the proposed construction and property that relate to the granting or denial of the conditional use permit request are as follows:

The County has Zoning Jurisdiction over this site as the Town of Elba has adopted the County's Land Use Code. The site is located within the A-1 Prime Agricultural Zoning District.

The County has Shoreland Jurisdiction over portions of the remnant lands.

- Portions of the remnant land are designated as wetlands.
- The proposed 2.5-acre lot is not designated as wetlands.

The County has Floodplain jurisdiction over portions of the remnant lands.

The 2.5-acre lot is designated as floodplain.

The base farm tract contains 119.1-acres that are located within the A-1 Prime Agricultural Zoning District;

 5.67-acres are available for non-farm resident 	ential use under Section 3.7.2.D.1 of the code.
The topography of the site is rolling with slopes ran	ging from 0 to 12%;
Land Use, Site: Residential and agricultural.	
Land Use, Area: Agricultural with scattered residen	ces along County Road BB.
Designated Archaeological Site: Yes	No ⊠
Town Recommendation: Approve ⊠	Deny ☐ No recommendation submitted ☐

STAFF ADVISORY:

This staff advisory is only advice to the Land Resources and Parks Committee. The Committee may or may not consider the advice of the staff and decision making authority is vested in the Committee only.

The staff has reviewed the proposal for compliance with the criteria listed in Sections 2.3.6.F and 3.7.2.D of the Dodge County Land Use Code and with Chapter 91.46 of the Wisconsin State Statutes. The staff comments are listed in Exhibit A for the Committee review.

It is the staff's position that the project as proposed is in compliance with the applicable provisions of the Dodge County Land Use Code and the provisions of Chapter 91.46 of the Wisconsin State Statutes and the staff believes that the Committee can make the findings necessary under Section 2.3.6.F and 3.7.2.D of the code that are required to approve the Conditional Use Permit for this project. If approved with the following conditions, the staff believes that the project will not have an adverse effect on the adjacent land owners, the community or the environment, and the proposal will be consistent with the purpose and intent of the Code.

CONDITIONS:

- 1. The applicant shall obtain the required land division approvals for the proposed lot from the County and local municipalities if required, prior to the creation of these lots;
- 2. The proposed non-farm residential lot shall not exceed 5.67-acres in area unless the lot is successfully rezoned out of the A-1 Prime Agricultural Zoning District;
- 3. Only one single family residential unit may be located on the proposed non-farm residential lot unless this lot is successfully rezoned into a zoning district which allows additional residential units;
- 4. The acreage of the proposed non-farm residential lot shall count towards the total non-farm residential acreage that can be created from the base farm tract for this property;
- 5. A "Notice of Zoning Limitations" document shall be recorded with the Dodge County Register of Deeds Office for the following parcels which make up the "base farm tract" which notifies the potential buyers of these parcels that there may be limitations as to the number of new lots that can be created from this base farm tract:
 - 014-1013-3634-000; 014-1013-3634-001; 014-1013-3631-000; 014-1013-3624-001;
- 6. The owner and subsequent owners of this non-farm residential lot hereby agree to comply with Subsection 9.2, Right to Farm provisions of the Dodge County Land Use Code and that they will not cause unnecessary interference with adjoining farming operations producing agricultural products and using generally accepted agricultural practices, including access to active farming operations;
- 7. The decision of the Committee shall expire one year after the decision is filed with the Department unless construction has been diligently pursued, a Certificate of Zoning Compliance has been issued, the use is established, or the Conditional Use Permit is renewed, for a period not to exceed one year.
- 8. The Conditional Use Permit shall also expire upon termination of a project or if the rights granted by the permit are discontinued for 180 consecutive days.

"EXHIBIT A"

<u>Staff Review Comments</u>
The staff has reviewed the proposal for compliance with the criteria listed in Section 2.3.6.F and 3.7.2 of the code. The staff comments are as follows:

Subsection 3.7 Is the proposed conditional use permit request in compliance with Chapter 91.46, Wisconsin State Statutes?

Proposed Use:	Complies ⊠	Potential Problem	N/A
 3.7.2.D.1 Non-farm residential acreage ratio: Acreage of Base Farm Tract: 119 Non-farm residential acreage: 2.5 Farm acreage remaining after projections 	.069 acres; acres; ect is completed		
 The ratio of all "nonfarm residentia not exceed 1 to 20 (0.05). Ratio of non-farm residentia 	•	•	
3.7.2.D.2 The total number of non-farm resid	ential units on th ⊠	e base farm tract shall no	ot exceed 4;
 1 - Number of proposed 	non-farm residen d non-farm reside	ct: Itial units located on base ential units located on ba Uunits located on base fa	se farm tract;
The total number of residential units	of any kind on th	ne base farm tract shall n	ot exceed 5;
<u> </u>	esidential units l d residential units	ocated on base farm trac s located on base farm tra ated on base farm tract;	
3.7.2.D.3.a Location of the proposed lots:	\boxtimes		
Will the proposed nonfarm resi farm use; ☐ Yes; ☐ No;	dential lot conve	rt cropland or "prime farn	nland" into non-
3.7.2.D.3.b Location of the proposed lots: Will the location of the nonfarm agricultural use of other "protection" ☐ Yes; No;		ignificantly impair the cur	rent or future
Non-Farm Residential Cluster:			

- **2.3.6.F.2** Is the project compatible with adjacent uses in terms of scale, site design, operating characteristics (hours of operation, traffic generation, lighting, noise, odor, dust, and other external impacts);
 - It is the staff's position that the proposed lot that contains an existing residential use will be compatible with the adjacent uses;
- **2.3.6.F.3** Will the proposed use be significantly detrimental to the public health, safety, and welfare?
 - It is the staff's position that the proposal will not have a significant detrimental impact on the adjacent properties or the community as the lot will contain an existing residence;
- **2.3.6.F.4** Will the project cause substantial diminution in value of other property in the neighborhood in which it is to be located:
 - It is the staff's position that the proposal will not have an adverse impact on the value of other property in the area;
- **2.3.6.F.5** Are public safety, transportation and utility facilities and services available to serve the subject property while maintaining sufficient levels of service for existing development?
 - It is the staff's position that there are adequate public facilities to serve the property;
- **2.3.6.F.6** Are there adequate assurances of continuing maintenance for the project?
 - It is the staff's position that there are adequate assurances of continuing maintenance for the project.
- **2.3.6.F.7** Will any significant adverse impacts on the natural environment be mitigated to the maximum practical extent?
 - It is the staff's position that the proposal will not have an adverse impact on the natural environment.
- **2.3.6.F.8** The proposed use will not be located in any hazard areas, including floodplains, floodways, etc., unless any potential danger is mitigated to the maximum extent possible, and to the satisfaction of the Wisconsin Department of Natural Resources;
 - It is the staff's position that proposed use will not be located in any hazard areas.
- **2.3.6.F.1** Does the proposed project comply with all applicable provisions of this Code:
 - It is the staff's position that the proposed project complies with the applicable provisions of the code;

Dodge County Land Resources and Parks Committee Decision

County Conditional Use Permit Application # 2022-0821

Filing Date: September 29, 2022 Hearing Date: November 14, 2022

Applicant /Owner:

Skalitzky Drainage LLC N8274 Moungey Ln Waterloo, Wi 53594

Location

PIN #: 014-1013-3634-000; 3633-001; 3631-000 and 3624-001;

Location: Part of the SE $\frac{1}{4}$ of the SW $\frac{1}{4}$, Section 36, Town of Elba, the site address being N2566 Benninger Road.

Applicants Request

An application for a County Conditional Use Permit under the Dodge County Land Use Code, was made by the applicant to allow for the creation of an approximate 2.5-acre nonfarm single family residential lot within the A-1 Prime Agricultural Zoning District. The proposed 2.5-acre lot contains the existing farm buildings and residence which are intended for non-farm residential use. The remaining 116+acres of farmland will remain in agricultural use at this time.

CONCLUSIONS OF LAW

Based on the facts presented in the application and at the public hearing the Committee concludes that:

According to Section 3.7.2.D of the Land Use Code and Wisconsin State Statute 91.46, a proposal to convert a farm residence to a nonfarm residence through a change in occupancy can be approved if all of the following apply:

3.7.2.D.1 Does the proposal meet the nonfarm residential acreage standards for the A-1 Prime Agricultural Zoning District?

(Yes / No)

If no, the request shall be denied.

3.7.2.D.2 Does the proposal meet the density standards for the A-1 Prime Agricultural Zoning District?

(Yes / No)

If no, the request shall be denied.

3.7.2.D.3.a \	Will the proposed nonfarm residential lot convert cropland or "prime farmland" into non-farm use;
(Yes/	No) If yes, are there reasonable alternative locations for the proposed lot that would convert less cropland or prime farmland into nonfarm residential use?
	Vill the location of the nonfarm residential lot significantly impair the current or future agricultural protected farmland"?
(Yes/	No) If yes, are there any mitigation measures that can be implemented in order to minimize the impact of the nonfarm residential use on the adjacent agricultural use?
	eral Approval Criteria for Conditional Use Permits se Permits shall be approved by the Committee if they find that all of the following criteria have
	the project compatible with adjacent uses in terms of scale, site design and operatings? (hours of operation, traffic generation, lighting, noise, odor, dust, and other external impacts);
(Yes/	No)
	If not, what measures can be taken to mitigate any potential conflicts?
2.3.6.F.3 Will	the proposed use be significantly detrimental to the public health, safety, and welfare?
(Yes/	No)
	If yes, what measures can be taken to mitigate the potential detrimental impacts?
2.3.6.F.4 Will is to be locate	the project cause substantial decrease in value of other property in the neighborhood in which id;
(Yes/	No)
	If yes, what measures can be taken to mitigate the decrease in the value of the properties?

	public safety, transportation and utility facilities and services available to serve the subject maintaining sufficient levels of service for existing development?
(Yes / N	No / Not Applicable)
l	f not, what can be done to ensure facilities and services will be available?
2.3.6.F.6 Are t	here adequate assurances of continuing maintenance for the project?
	(Yes / No/ Not Applicable)
	If no, what measures can be taken to ensure continued maintenance?
2.3.6.F.7 Will t	there be any significant adverse impacts on the natural environment that require mitigation?
(Yes / N	No)
	If yes, what measures can be taken to mitigate the potential adverse impacts on the environment?
2.3.6.F.8 Is the	e project located in any hazard areas? (floodplains, floodways, steep slopes, etc)
(Yes / N	No)
	If yes, are there any measures that need to be taken to mitigate any potential dangers?
2.3.6.F.1 Does	s the proposed project comply with all applicable provisions of this Code;
(Yes / N	No)
	If not, what changes must be made to bring the project into compliance with the code?

Are any conditions for approval needed in this case to mitigate any potential adverse impacts on the adjacent properties, the environment or the community?

(Yes/No)

- 1. The applicant shall obtain the required land division approvals for the proposed lot from the County and local municipalities if required, prior to the creation of these lots;
- 2. The proposed non-farm residential lot shall not exceed 5.67-acres in area unless the lot is successfully rezoned out of the A-1 Prime Agricultural Zoning District;
- 3. Only one single family residential unit may be located on the proposed non-farm residential lot unless this lot is successfully rezoned into a zoning district which allows additional residential units;
- 4. The acreage of the proposed non-farm residential lot shall count towards the total non-farm residential acreage that can be created from the base farm tract for this property;
- 5. A "Notice of Zoning Limitations" document shall be recorded with the Dodge County Register of Deeds Office for the following parcels which make up the "base farm tract" which notifies the potential buyers of these parcels that there may be limitations as to the number of new lots that can be created from this base farm tract:
 - 014-1013-3634-000; 014-1013-3634-001; 014-1013-3631-000; 014-1013-3624-001;
- 6. The owner and subsequent owners of this non-farm residential lot hereby agree to comply with Subsection 9.2, Right to Farm provisions of the Dodge County Land Use Code and that they will not cause unnecessary interference with adjoining farming operations producing agricultural products and using generally accepted agricultural practices, including access to active farming operations;
- 7. The decision of the Committee shall expire one year after the decision is filed with the Department unless construction has been diligently pursued, a Certificate of Zoning Compliance has been issued, the use is established, or the Conditional Use Permit is renewed, for a period not to exceed one year.
- 8. The Conditional Use Permit shall also expire upon termination of a project or if the rights granted by the permit are discontinued for 180 consecutive days.

Others					
Does the committee believe that the 2.3.6.F and 3.7.2.D of the County La					
(Yes / No)					
Motion by previously mentioned findings and c		deny) the con	ditional use per	mit request based ι	pon the
Motion second					
Vote Dale Macheel Donna Maly Ben Priesgen Dan Siegmann Mary Bobholz – Chair	☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes	NoNoNoNoNoNoNo	Abstain Abstain Abstain Abstain Abstain Abstain	Not Present Not Present Not Present Not Present Not Present Not Present	

Motion (Carried / Denied)

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Page	of

ORDER AND	DETERMINATION
On the basis of	of the above findings of fact, conclusions of law and the record in this matter the committee
	Granted preliminary approval of the conditional use permit subject to the conditions listed above and the Land Use Administrator is directed to issue a conditional use permit incorporating the decision of this Committee.
	Granted the conditional use permit request as proposed and the Land Use Administrator is directed to issue a conditional use permit incorporating the decision of this Committee.
	Denied the conditional use permit request as proposed. The committee finds that the proposal does not meet the following approval criteria of the code:
use permit sha approval for s	Approval Any order issued by the Committee requiring a Zoning official to issue a conditional all become void after one year unless the applicant or appellant shall have met the conditions of uch permit and a conditional use permit has been issued by the Zoning official within such time, the time may be extended when so specified by the Committee.
	This order may be revoked by the Committee in accord with Section 11.4.4 of the Dodge County de after notice and opportunity to be heard for violation of any of the conditions imposed.
officer, depart with the Dodg whom the app and decision r	decision may be appealed by any person or their agent aggrieved by this decision or by any ment, board or bureau of the County, or by any affected town board. Such appeals shall be filed e County Land Resources and Parks Department or the review and decision making body from real is taken within 30 days after the date of written notice of the decision or order of the review making body. The County assumes no liability for and makes no warranty as to reliance on this astruction is commenced prior to expiration of this 30-day period.
	Il use permit is denied, the applicant may appeal the decision to the circuit court under the ontained in s. 59.694(10) Wis. Stats.
Dodge County	Land Resources and Parks Committee
Signed	Chairperson Secretary

Dated: _____

Filed: _____





DODGE COUNTY LAND RESOURCES & PARKS DEPARTMENT

127 E. Oak Street • Juneau, WI 53039 РНОNE: (920) 386-3700 x2 • Fax: (920) 386-3979 E-маіі: landresources@co.dodge.wi.us

CONDITIONAL USE PERMIT APPLICATION

This Area For	OFFICE USE ONLY
Activity No. 220821	Permit Issued Date
Application Date:	Receipt#15/-00// 575/-00// Sanitary Permit #:
4-29-2122	Darmary 1 offiners.

Application Fee: \$350 (After the Fact Application Fee - \$700)

Please complete page 1 and 2 of this application form and submit the application form with all of the required information listed in the "Application Checklist" for your project. PRINT OR TYPE. Use blue or black ink, do not use pencil. The Dodge County Land Resources and Parks Department will not consider your application unless you complete and submit this application form, the applicable information listed in the "application checklist" for your proposed project and the application fee. Personally identifiable information on this form will not be used for any other purpose, but it must be made available to requesters under Wisconsin's open records law [s.19.31-19.39, Wis. Stats.].

(1)	Names & Mailing Addresses		(2) PROPERTY DESCRIPTION							
Applicant (Agent)	IN DRAINAGE	Parcel Identification N	3634-000							
Street Address W \$59.3	M. del L	FLBA	T/O N R 13 E							
City State ZipCode	W 53594	<u></u> <u>S</u> ω ^{1/4} <u>S</u>	36 Acreage Lot (Block) 2.50							
Property Owner (If differ	rent from applicant) NA-NASE	Subdivision or CSM (\	/olume/Page/Lot) DO NOT Include City/State/ZipCode)							
Street Address D 2566 City • State • ZipCode	benninger The	Address Of Property (2566 Benniger PD							
Reese	ulle w 53579	Is this property	connected to public sewer? ☐ Yes Z No							
	(3) PROPERTY USE	(4) PROPOSED PROJECT								
	Current Use Of Property	(Please check/	complete all that apply below)							
☐ Vacant Property		☐ Non-Farm Re	esidential Lot Single Family Residence							
Single-Family R		☐ Two-Family F	Residence							
Active-Working	Farm Operation	□ Tavern or Re	estaurant							
☐ Business • Indu	strial • Commercial • (Describe below)	☐ Non-Metallic Mine/Quarry ☐ Wind Tower								
Other		☐ Create/Expand Business ☐ Wildlife Pond > 2-acres								
		☐ Wireless Cor	mmunications Tower							
	DNR Notice	☐ Contractor's	Offices and Storage Yards							
construction on or near w with open water can be d modification of constructi information, visit the Dep	esponsible for complying with State and Federal laws concerning retlands, lakes and streams. Wetlands that are not associated ifficult to identify. Failure to comply may result in removal or on that violates the law or other penalties or costs. For more artment of Natural Resources Wetlands Identification Web Page contact a Department of Natural Resources Service Center.		ng or Dredging in the Shoreland District							
	(5) CERT									
	y apply or a Conditional Use Permit and certify that all the information of the Conditional Use Permit and certify that all the information of the Dodge County Land Resources and Party application request and to conduct land use code inspections. Daytime Contact Number (1)	0.0	ached is true and correct to the best of my knowledge. I affirm Dodge County Land Use Code and with all other applicable laws In the above-described property for purposes of obtaining Date 9-28-22							
	AREA BELOW THIS LINE	FOR OFFICE US	E ONLY							
	LAND RESOURCES AND PA	RKS COMMITTEE	ACTION							
Date of De	cision D	ecision								
☐ A PPROVED	Conditions		Land Resources and Parks Department							
☐ DENIED										
			Date:							

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PRELIMINARY CERTIFIED SURVEY

PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 AND PART OF THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 36, TOWNSHIP 10 NORTH, RANGE 13 EAST, TOWN OF ELBA, DODGE COUNTY, WISCONSIN.





SEPTIO AREA

2.50 AC

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243.5'

N01°03'19"W

SW 1/4 = SW 1/4

N89°43'31"E

1298'

SOUTHWEST CORNER, SECTION 36, T.10N., R.13E.

Scale 1" = 200' 400

96.3

872°33'00"E|

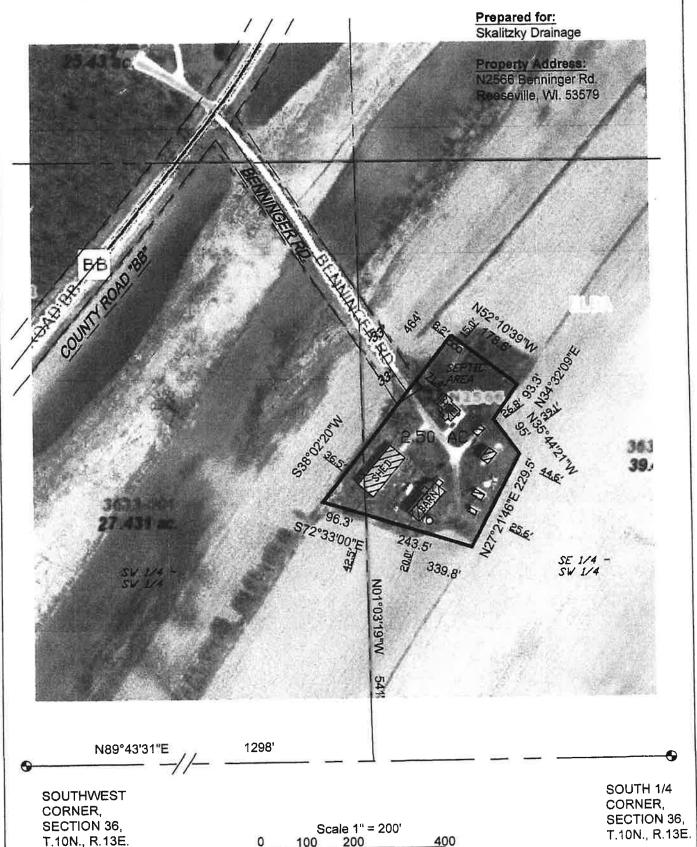
SOUTH 1/4 CORNER, SECTION 36, T.10N., R.13E.

SE 1/4 -SW 1/4

PRELIMINARY CERTIFIED SURVEY

PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 AND PART OF THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 36, TOWNSHIP 10 NORTH, RANGE 13 EAST, TOWN OF ELBA, DODGE COUNTY, WISCONSIN.





Land Resources and Parks Department Staff Report

County Rezoning Petition # 2022-0860

Filing Date: October 17, 2022 Hearing Date: November 14, 2022

Applicant (Agent):

Andrea Lindemann P.O. Box 426 Johnson Creek, WI 53038

Owner:

Patricia Braasch N1308 Poplar Grove Road Watertown, WI 53098

Location

PIN# 026-0916-1533-000; 026-0916-1534-000;

Part of the SE ¼ and SW ¼'s of the SW ¼, Section 15, Town of Lebanon, the site address being N1308 Poplar Grove Road.

Applicants Request

A rezoning petition has been submitted by the applicant in order they be allowed to rezone approximately 29-acres of land from the A-1 Prime Agricultural Zoning District to the A-2 General Agricultural Zoning District to allow for the creation of two non-farm residential lots at this location. An approximate 8-acre lot will contain an existing residence and accessory buildings and the approximate 21-acre lot is vacant agricultural and recreational land which is intended for non-farm residential use.

Land Use Code Provisions

- 1. Subsections 2.3.4.A through 2.3.4.J of the Land Use Code details procedural matters, the approval criteria and the form for the petition. The Committee must hold a public hearing and report to the County Board. The role of the Town boards in the process is also outlined in this section.
- 2. Subsection 2.3.4.B states that a petition for rezoning may be made by any property owner in the area to be affected by the rezoning.

Purpose Statements

The purpose of the A-1 Prime Agricultural Zoning District is to promote areas for uses of a generally exclusive agricultural nature in order to protect farmland, allow participation in the state's farmland preservation program, and accommodate changing practices in the agricultural industry, subject to appropriate standards.

The purpose of the A-2 General Agricultural Zoning District is to promote areas for agriculture which are transitional, allowing for expansion of urban areas limited to rural residential development, and the conversion of agricultural land to other related uses, subject to appropriate standards.

Physical Features of Site

The features of the proposed construction and property that relate to the rezoning request are as follows:

The applicant owns approximately 78.7-acres of land at this location. Approximately 29-acres are located along the east side of Poplar Grove Road and 49.1-acres along the west side of Poplar Grove Road and approximately .5-acres along the south side of Poplar Grove Road. The applicant is proposing to create an approximate 8-acre and a 21-acre non-farm residential lot along the east side of Poplar Grove Road. The applicant is also proposing to create an approximate 21-acre and a 28-acre lot along the west side of Poplar Grove Road for agricultural and open space recreational use. The remaining approximate .7-acres is intended to be dedicated to the Town for road purposes.

The County has Zoning Jurisdiction over this site as the Town of Lebanon has adopted the County's Land Use Code. The site is located within the A-1 Prime Agricultural Zoning District. A request has been made to rezone the 29-acres of land along the east side of Poplar Grove Road in order to create the proposed 8-acre and the 21-acre lots.

The County has Shoreland Jurisdiction over portions of the proposed lots.

- Portions both lots to be created along the east side of the road are designated as wetlands.
- Portions of both lots to be created along the west side of the road are designated as wetlands.
- The approximate .7-acre lot along the south side of Poplar Grove Road is not designated as a wetland.

The County has Floodplain jurisdiction over portions of all of the lots

- Portions both lots to be created along the east side of the road are designated as floodplain.
- Portions of both of the lots to be created along the west side of the road are designated as floodplain.
- The approximate .7-acre lot along the south side of Poplar Grove Road is not designated as a floodplain.

The topography of the site is rolling with slopes ranging from 0 to 12%;

Land Use, Site: Residential, agricultural and open space recreational.

Land Use, Area: Agricultural and open space wetland areas with scattered residences along Poplar Grove Road.

Designated Archaeological Site:	Yes _	No [X
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Density Standards

The base farm tract for this property contains 78.7-acres within the A-1 Prime Agriculture Zoning District. The Code would allow a maximum of 3.7-acres for non-farm residential use under the conditional use permit process. Therefore, in this case, rezoning is required to allow for the creation of an approximate 8-acre and a 21-acre non-farm residential lot along the east side of Poplar Grove Road.

The proposal is consistent with the Dodge County Comprehensive Plan and Farmland Preservation Plan:

- Portions of the site are designated as agricultural according to the County's Future Land Use Map
 which can include a limited amount of residential development, but where the predominant land use
 would be agricultural in nature.
- Portions of the site are also designated as conservancy which will remain in open space recreational
 use.

Town Recommendation

The Town Board has submitted a recommendation to the Department approving the rezoning petition.

STAFF ADVISORY:

This staff advisory is only advice to the Land Resources and Parks Committee. The Committee may or may not consider the advice of the staff and decision making authority is vested in the Committee only.

The staff has reviewed the petition for compliance with the approval criteria listed in Section 2.3.4.I of the Code with Chapter 91.48 of the Wisconsin State Statutes. The staff comments are listed in Exhibit A for the Committee review.

The staff believes that the committee can make the findings necessary under Section 2.3.4.I of the code and Chapter 91.48 of the Wisconsin State Statutes in order to submit a favorable recommendation to the County Board for this proposal.

Exhibit A

2.3.4.1 Approval Criteria

In acting on a rezoning petition, the County Board of Supervisors shall consider the stated purpose of the proposed zoning district and shall approve the rezoning petition only if it finds that:

- **2.3.4.I.1** Adequate public facilities and services (including sewage and waste disposal, water, gas, electricity, schools, police and fire protection, and roads and transportation, as applicable) will be available to serve the subject property while maintaining adequate levels of service to existing development;
 - It is the staff's position that there are adequate public facilities and services to serve the proposed lots:
- **2.3.4.I.2** Provision of public facilities to accommodate development will not place an unreasonable burden on the ability of affected local units of government to provide them;
 - It is the staff's position that the proposed development project will not place an unreasonable burden on the ability of the Town to provide adequate public facilities or services;
- **2.3.4.1.3** The proposed development will not result in significant adverse impacts upon surrounding properties or the natural environment, including air, water, noise, stormwater management, soils, wildlife, and vegetation;
 - It is the staff's position that if the proposed lots is developed in accord with the Land Use Code provisions, the development project will not have an unreasonable adverse effect on surrounding properties or the environment;
- **2.3.4.I.4** The land proposed for rezoning is suitable for development and will not cause unreasonable soil erosion or have an unreasonable adverse effect on rare or irreplaceable natural areas;
 - It is the staff's position that the area to be rezoned is suitable for development and if the land is developed in accord with the land use code provisions, the project will not cause unreasonable soil erosion;
- **2.3.4.I.5** The proposed rezoning is consistent with the Dodge County Comprehensive Plan and Farmland Preservation Plan and the stated purposes of this Code;
 - It is the staff's position that the proposal is consistent with the Dodge County Comprehensive Plan
 as the site is designated as agricultural according to the County's Future Land Use Map which can
 include a limited amount of residential development, but where the predominant land use would be
 agricultural in nature.
 - The staff also notes that the areas that are designated as conservancy will remain in open space recreational use.
 - It is the staff position that the proposal is consistent with the Farmland Preservation Plan

- **2.3.4.I.6** The proposed rezoning will not be used to legitimize, or "spot zone," a nonconforming use or structure;
 - It is the staff's position that the proposed rezoning is consistent with the County's Future Land Use Map as this site intended for residential development is designated as agriculture. Therefore it is the staff's position that the proposed rezoning will not result in spot rezoning.
- **2.3.4.1.7** The proposed rezoning is the minimum action necessary to accomplish the intent of the petition, and an administrative adjustment, variance, or Conditional Use Permit could not be used to achieve the same result.
 - It is the staff's position that the proposed rezoning is the minimum action necessary to accomplish the intent of the petition;
- **2.3.4.l.8** For all proposed rezoning petitions that will remove land from the A-1 Prime Agricultural Zoning District, the following additional findings shall be made:
- **2.3.4.I.8.a** The land is better suited for a use not allowed in the A-1 Prime Agricultural Zoning District;
 - It is the staff's position that the land is better suited to non-farm residential and open space recreational use.
- **2.3.4.I.8.b** The rezoning is substantially consistent with the Dodge County Comprehensive Plan and Farmland Preservation Plan:
 - The property is designated as agricultural and conservancy according to the County's Future Land Use Map and therefore it is the staff's position that the proposed rezoning is substantially consistent with the Dodge County Comprehensive Plan and the Farmland Preservation plan;
- **2.3.4.1.8.c** The rezoning will not substantially impair or limit current or future agricultural use of surrounding parcels of land that are zoned for or legally restricted to agricultural use;
 - It is the staff's position that the proposed rezoning will not substantially impair or limit the current or future agricultural use of the adjacent parcels;

2.3.4.J Approval by Affected Town Boards

Approval of rezoning petitions by affected town boards shall occur pursuant to the procedures set forth in Section 2.2.15.

 The Town Board has submitted a recommendation to the Department approving the rezoning petition.



DODGE COUNTY LAND RESOURCES & PARKS DEPARTMENT

127 E. OAK STREET • JUNEAU, WI 53039 PHONE: (920) 386-3700 • FAX: (920) 386-3979 E-MAIL: landresources@co.dodge.wi.us

220860

τ THIS AREA FOR OFFICE USE ONLY τ
Activity No. Application Date:

REZONING PETITION

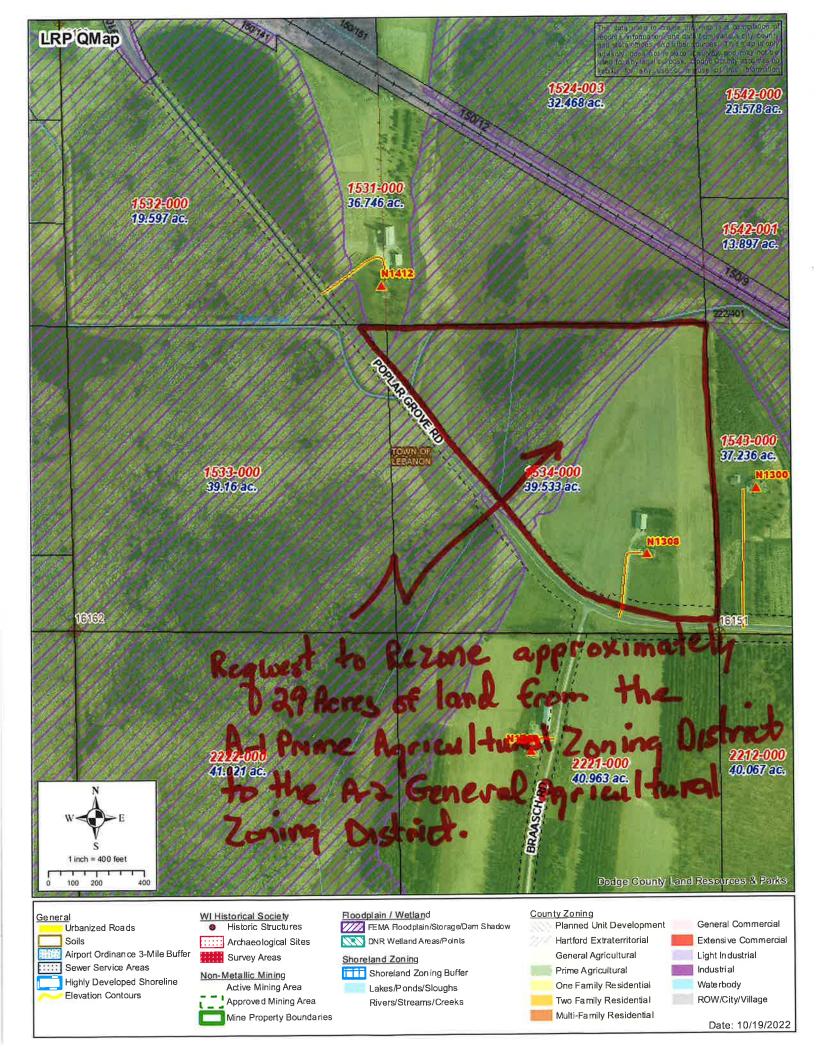
etition Fee: \$350 (Payable to Dodge County)					
Names & Mailing Addresses	PROPERTY DESCRIPTION				
Petitioner (Agent) Andrea Windemann	Parcel Identification Number (PIN) 026-0916-1533-000/026-0916-1534-				
Street Address PO BOX 426 N+308 Popter Grove Rd.	Lebanon 9 16				
City·State·ZipCode Water Johnson Crack, w1	Section 1/4 1/4 Acreage Lot (Block)				
Property Owner (If different from petitioner) PATOLIA BYZASU	Subdivision or CSM (Volume/Page/Lot) Address Of Property (DO NOT Include City/State/ZipCode)				
Street Address N308 Paplar Grove, Rd. City · State · ZipCode					
Watertown, WI 53098	Is this property connected to public sewer? ☐ Yes Þ\No				
	CT PERSON				
Name and daytime phone number (include area code) of a page 1997. Name	son we can contact if we have any questions about your petition. Daytime Phone (920) 941 - 0079				
Propose	ED REZONING				
A-I Primes Agricultural	Proposed Zoning District				
Q	For Rezoning antial lots				
Please complete the site ma	p on the reverse side of this sheet.				
	ATIFICATE aforementioned property and certify that all the information				
Signature Signature	and correct to the best of my knowledge. Date _ B (10 22				
Daytime Contact Number (<u>0</u> 120)	<u> 205 - 0073</u>				
	NE FOR OFFICE USE ONLY ◆				
9/10/2022 Request by Applicant tohold is	5I OFRZIN Until Town agress is approved				

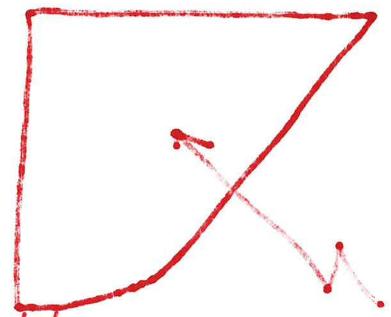
Sketch Map – Attach a sketch map or aerial photo of the proposed land to be rezoned to the application. The sketch map or aerial photo shall be at a scale of 1" = 200' or other appropriate scale. This sketch map or aerial photo shall include the following information:

- 1. North arrow, date and scale;
- 2. Reference to a section corner or existing lot line;
- 3. The location and dimensions of the proposed area to be rezoned;
- 4. The location of the existing and proposed lot lines;
- 5. The location and dimensions of any existing or proposed easements;
- 6. The location of any existing buildings, water wells, septic systems, water courses, drainage ditches and other features pertinent to the rezoning petition;
- 7. The location and name of existing roads, easements of record, public access to navigable waters and dedicated areas;
- 8. The location of existing and proposed driveways:
- 9. Any other additional information pertinent to this rezoning petition;

(An aerial photo of your site may be available through the Dodge County Planning, Development and Parks Department. Please contact our office for additional information (920) 386-3700)

Please submit the <u>application form, sketch map and the appropriate application fee</u> (payable to Dodge County) to the address listed on the front of this form.





Reguest to Rezone approximately 329 heres of land from the At Prime Agricultural 200 ing District to the Az General Agricultural 200 ing District Zoning District.

Land Resources and Parks Department Staff Report

County Rezoning Petition # 2022-0609- Proposed Revision

Filing Date: October 24, 2022

Committee Review Date: November 14, 2022

Applicant (Agent):

Glen Beske W10003 County Road F Fox Lake, WI 53933

Owner:

Gerhardt and Carol Beske Family Trust W9701 County Road F Fox Lake, WI 53933

Location

PIN# 018-1313-1322-000

Part of the NW ¼ of the NW ¼, Section 13, T13N, R13E, Town of Fox Lake, the site address being W10003 County Road F.

Applicants Request

On September 20, 2022, the County Board of Supervisors approved a rezoning petition for the property described above to rezone approximately 10-acres of land from the A-1 Prime Agricultural zoning district to the A-2 General Agricultural zoning district under the Dodge County Land Use Code as shown in Exhibit A in order to allow for the creation of an approximate 10-acre non-farm residential lot.

On October 24, 2022, the applicant has requested a revision to the shape of the proposed area to be rezoned as shown in Exhibit B.

The staff's question to the Committee is: Is the proposed revision considered as substantially the same plan as approved by the County Board on September 20, 2022 or does this proposed revision need to go back to the Committee for a new public hearing and to the County Board for review and approval.



JODGE COUNTY LAND RESOURCES & PARKS DEPARTMENT

127 E. OAK STREET • JUNEAU, WI 53039
PHONE: (920) 386-3700 • FAX: (920) 386-3979
E-MAIL: landresources@co.dodge.wi.us

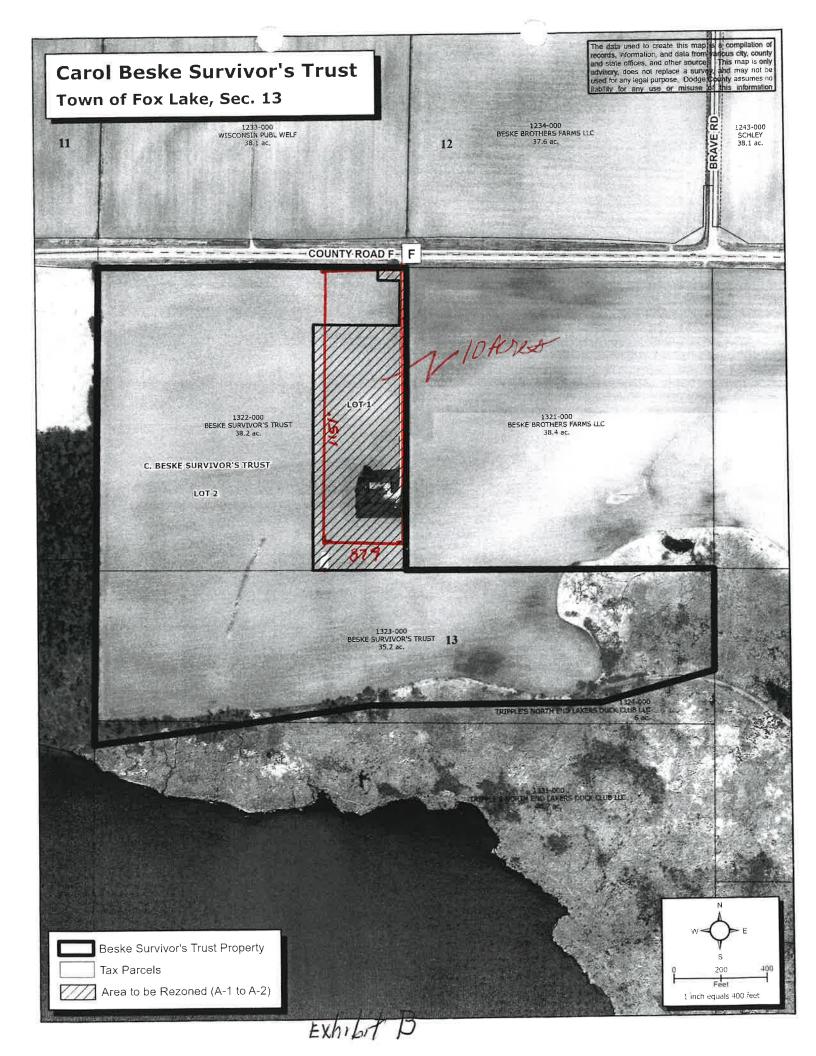
220609

τ THIS AREA FOR OFFICE USE ONLY τ Activity No. Application Date:

REZONING PETITION

NAMES & MAILING ADDRESSES	PROPERTY DESCRIPTION					
Petitioner (Agent)	Parcel Identification Number (PIN)					
Glan Beske	018-1313-1322-000					
Street Address	Town T N R					
W10003 Cty F						
City · State · ZipCode For Lake, will 53 433 Property Owner (If different from petitioner)	13 NW PW 10					
Property Owner (If different from petitioner) Gerhardt J & Carol Beske Family Street Address	Subdivision or CSM (Volume/Page/Lot)					
Street Address W9701 Chy F	Address Of Property (DO NOT Include City/State/ZipCode) い10003 Cメッド					
For Lake, WI 53933	Is this property connected to public sewer? ☐ Yes ☐ No					
CONTACT	PERSON					
	son we can contact if we have any questions about your petition.					
Name <u>Carol Beske</u>	Daytime Phone (120) 928- 239 >					
PROPOSED REZONING						
Current Zoning District	Proposed Zoning District					
A-1 Prime Agricultural	A-2 General Agricultural					
Reason For Rezoning to existing Buildings Residential lot Containing the						
Please complete the site map of	on the reverse side of this sheet.					
CERTIFICATE						
I, the undersigned, hereby petition to rezone the afor both above and attached is true and	ementioned property and certify that all the information I correct to the best of my knowledge.					
Signature Men Besh Date 07-19-2022						
Daytime Contact Number (920) 20 Y - 9806						
◆AREA BELOW THIS LINE FOR OFFICE USE ONLY ◆						
Reguest for Nevisib west be respond 10/24/2020						
V V	I					





DODGE COUNTY LAND RESOURCES AND PARKS COMMITTEE MINUTES October 24, 2022

The Dodge County Land Resources and Parks Committee met on **October 24, 2022** at 7:00 p.m. on the 1st Floor of the Administration Building, Juneau, Wisconsin.

Call to Order: Chair Mary Bobholz called the meeting to order at 7:00 PM.

Members present: Mary Bobholz, Dale Macheel, Donna Maly and Benjamin Priesgen

Members absent: Dan Siegmann.

Other County Board members in attendance requesting a per diem: **None**

Staff present: Bill Ehlenbeck - Director, Joseph Giebel – Manager of Code Administration, Jason Roy – Parks Manager, Kim Nass – Corporation Counsel

Others present: Members of the public for the public hearings. Glenn Daily, Cindy Haerterich from the Friends of the Dodge County Parks Group.

The Chairman asked the staff to confirm compliance with the open meeting laws and the public hearing notice requirements. Mr. Giebel noted that the meeting was properly noticed in accord with the open meeting law and noted that the required notices for the public hearings listed on the agenda were posted, mailed and published in accord with the statute and code requirements.

1. The minutes from the October 10, 2022 meeting were reviewed by the Committee.

Motion by Donna Maly to approve the minutes as written.

Second by Ben Priesgen Vote: 4-0 Motion carried.

The hearing procedures were read into the record.

PUBLIC HEARING

Dodge County Land Resources and Parks Committee – Request to rezone certain lands located within the Towns of Calamus, Lomira and Trenton so that the Dodge County Land Use Maps for these Towns are consistent with the Dodge County Comprehensive Plan and the Dodge County Farmland Preservation Plan Map.

Motion by Mary Bobholz to submit a favorable recommendation to the County Board of Supervisors on the request to rezone certain lands located within the Towns of Calamus, Lomira and Trenton so that the Dodge County Land Use Maps for these Towns are consistent with the Dodge County Comprehensive Plan and the Dodge County Farmland Preservation Plan Map.

Second by Dale Macheel Vote 4-0 Motion carried.

On the basis of the findings of fact, conclusions of law and the record in this rezoning matter, the committee shall provide a favorable recommendation to the County Board on the rezoning petition as proposed. An ordinance shall also be drafted effectuating the recommendation of the committee and said ordinance shall be submitted to the Board for approval:

Administrative Business:

Motion by Ben Priesgen to meet in closed session for the purpose of conferring with legal counsel for Dodge County, who will render oral or written advice concerning strategy to be adopted by Dodge County with respect to litigation in which it is involved, namely, Katrina Dalgren, Plaintiff, v. Dodge County and Dodge County Land Resources and Parks Committee, Defendants, and, Dodge County Wisconsin Circuit Court Case No. 22-CV-289.

Second by Donna Maly Vote 4-0 Motion carried. 7:19 PM

This portion of the meeting was closed pursuant to Section 19.85(1)(g), of the Wisconsin Statutes.

Reconvene into Open Session

Motion by Donna Maly to reconvene in open session. 7:50 PM Second by Ben Priesgen
Motion carried 4-0

PARK SYSTEM

Comprehensive Outdoor Recreation Plan kick off with Friends of Dodge County Parks Board

Bill Ehlenbeck introduced the Committee and the members of the Friends of Dodge County Parks Board and Ben Rohr of Vandewalle & Associates. Mr. Rohr is the Project Manager for the County Outdoor Recreation Plan being updated. Mr. Rohr facilitated the discussion with the project overview, objectives, project schedule, goals and priorities. The Committee, Friends Board and staff shared thoughts and ideas about opportunities and improvements.

OTHER BUSINESS

No Committee Member Reports, No other Per Diems.

Next Meeting: November 14, 2022, 7:00 PM

Motion by order of the Chair to adjourn the meeting.

Meeting adjourned at 8:48 p.m.

Respectfully Submitted,

Secretary		

Disclaimer: The above minutes may be approved, amended or corrected at the next committee meeting.