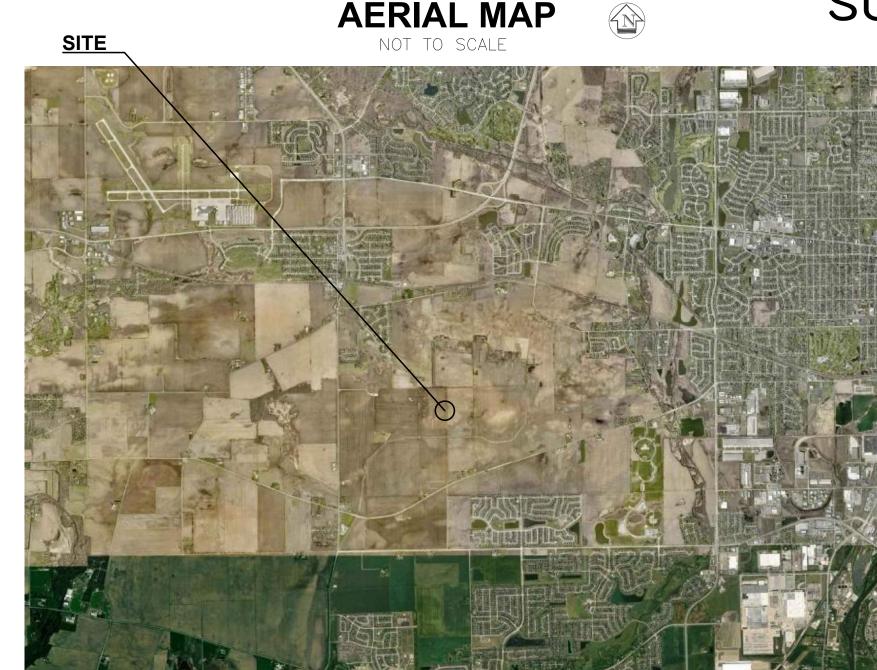
$S\frac{1}{2}SEC 27 & N\frac{1}{2}SEC 34$ **TOWNSHIP: 38N** RANGE: 7E SUGAR GROVE TOWNSHIP

## ORCHARD SOLAR JERICHO ROAD AT BERTRAM ROAD UNINCORPORATED KANE COUNTY SUGAR GROVE, IL, 60554

LOCATION MAP Wheeler Rd



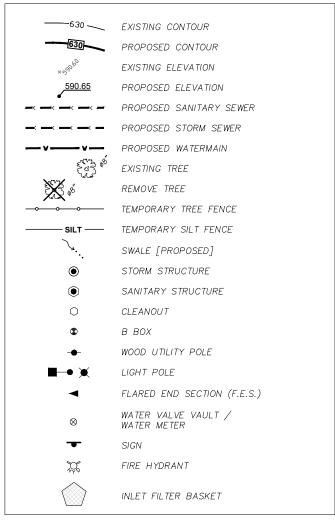
#### **GENERAL NOTES:**

- 1. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING JULIE FOR UTILITY LOCATES A MINIMUM OF 48 HOURS IN ADVANCE OF BEGINNING EXCAVATION.
- 2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOB SITE.
- 3. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN ALL NECESSARY PERMITS AS REQUIRED, PRIOR TO COMMENCING CONSTRUCTION.
- 4. THE ILLINOIS DEPARTMENT OF TRANSPORTATION " STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, AND ALL ADDENDA THERETO, SHALL GOVERN THE EARTHWORK AND PAVING WORK UNDER THIS CONTRACT.
- 5. THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS," LATEST EDITION, SHALL GOVERN THE UNDERGROUND WORK UNDER THIS CONTRACT, EXCEPT AS MODIFIED BY THESE SPECIFICATIONS, OR WHERE IN CONFLICT WITH KANE COUNTY STANDARDS.
- 6. ALL EROSION CONTROL WORK SHALL MEET THE REQUIREMENTS OF THE KANE COUNTY STORM WATER ORDINANCE.
- 7. ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH OSHA REQUIREMENTS AND KANE COUNTY REGULATIONS AND STANDARDS.AND SHALL CONFIRM IN ALL RESPECTS TO ALL STATE AND FEDERAL LAWS AND REGULATIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON JOB
- 8. THE CONTRACTORS SHALL NOTIFY ALL UTILITY COMPANIES FOR FILED LOCATIONS OF THEIR FACILITIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. ANY UTILITY LOCATIONS SHOWN ON THE PLANS ARE BASED ON AVAILABLE RECORDS AND ARE FOR GENERAL DIRECTION ONLY.
- 9. CONSTRUCTION OPERATION SHALL BE CONDUCTED IN SUCH A WAY AS TO PREVENT TRACKING OF MUD OR SOIL, DEBRIS, ASPHALT AND CONCRETE ONTO PUBLIC THOROUGHFARES. AT THE END OF EACH DAY, THE CONTRACTOR SHALL REMOVE MATERIALS DEPOSITED ONTO PUBLIC STREETS AND ALLEYS.
- 10.PUBLIC STREETS AND ALLEYS SHALL BE RESTORED PROMPTLY MEETING KANE COUNTY DOT STANDARDS AND SPECIFICATIONS.
- 11. THE CONTRACTOR SHALL VERIFY THE EXACT ELEVATION AND LOCATION OF ALL EXISTING UTILITIES AND APPURTENANCES PRIOR TO CONSTRUCTION, TO AVOID INTERFERENCES.
- 12. APPROPRIATE PRECAUTIONS SHALL BE TAKEN TO AVOID DAMAGE TO AND TO PROTECT EXISTING UTILITIES AND APPURTENANCES IN THE VICINITY OF WORK.
- 13. ALL SOLAR PANEL LAYOUTS SHOULD BE DONE BY A REGISTERED LAND SURVEYOR AFTER CONFIRMING THE PROPERTY CORNERS IN THE FIELD. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER PRIOR TO INITIATING CONSTRUCTION.

#### **SITE PLAN NOTES:**

- A. SITE LAYOUT HAS BEEN PREPARED BASED UPON OWNER DIRECTION CURRENT AT THE DATE OF THIS DRAWING. SUBSEQUENT OWNER DIRECTION CHANGES MAY EXIST, THEREFORE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- B. EXISTING SITE TOPOGRAPHY BY RIDGELINE CONSULTANTS. CONTRACTOR SHALL FIELD CHECK EXISTING ELEVATIONS AND CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION.
- C. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, (UNLESS OTHERWISE NOTED ON PLANS) INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS AND POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND PROJECT SITEWORK SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE
- SITE BOUNDARY INFORMATION TAKEN FROM ALTA SURVEY PREPARED BY RIDGELINE CONSULTANTS.
- THE CONTRACTOR SHALL ADJUST RIM ELEVATIONS OF ALL EXISTING STRUCTURES TO PROPOSED GRADES AS INDICATED ON PLANS.
- F. NO SPECIAL CONDITIONS WERE PRESENT ON THIS SITE.





#### NOTES:

LOCATION OF UTILITIES SHOWN HEREON IS CERTIFIED AT SURFACE STRUCTURES ONLY. UNDERGROUND LINES AS SHOWN ARE ESTIMATED LOCATIONS BASED ON AVAILABLE VISIBLE EVIDENCE, ENGINEERING PLANS AND OUR BEST JUDGMENT. ACTUAL LOCATIONS OF UNDERGROUND UTILITIES IN THE VICINITY OF ANY PROPOSED CONSTRUCTION SHALL BE VERIFIED BY EXCAVATION.

THE BASIS OF BEARINGS IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM.

A J.U.L.I.E. LOCATE FOR THE UNDERGROUND UTILITIES WAS NOT PROVIDED AT THE TIME OF THE SURVEY. LACKING EXCAVATION, THE TYPE AND LOCATION OF SAID UTILITIES CANNOT BE ACCURATELY, COMPLETELY, AND

FOR BUILDING LINES, EASEMENTS AND OTHER RESTRICTIONS NOT SHOWN HEREON, REFER TO YOUR DEED, TITLE POLICY, ZONING ORDINANCE, ETC

SITE BENCHMARK:

PROJECT NARRATIVE

CONSTRUCT COMMUNITY SOLAR FIELD.

TOTAL PROPERTY AREA = 278.58 ACRES

SPECIAL PROTECTION AREAS:

UNMAPPED FLOODING AREA THROUGH CENTER OF SITE. NO FILL PROPOSED IN FLOODING AREA. THERE ARE WETLANDS LOCATED ONSITE. NO WETLANDS WILL BE DISTURBED.

THERE IS SIGNIFICANT UPSTREAM TRIBUTARY AREA FOR THE SITE. EXISTING CONVEYANCE THROUGH SITE WILL BE

DETENTION/VOLUME CONTROL FACILITY: 4,770 SQ FT OF NET NEW IMPERVIOUS AREA. STORMWATER MANAGEMENT IS NOT REQUIRED BY KANE COUNTY STORMWATER ORDINANCE (UNDER 25,000 SQ FT OF NET NEW IMPERVIOUS AND UNDER 3 ACRES

HYDROLOGICALLY DISTURBED AREA) STORMWATER MITIGATION/BMP IS REQUIRED BY KANE COUNTY STORMWATER ORDINANCE

<u>STORMWATER MITIGATION/BMP</u> BIOSWALES LOCATED AT LOW POINTS TO STOR RUNOFF FROM HYDROLOGICALLY DISCONNECTED SURFACES OF SOLAR PANELS

NO NEW SANITARY SEWERS OR SERVICES PROPOSED

NO NEW WATER MAINS OR SERVICES PROPOSED

ANY DISTURBED DRAIN TILE TO BE REPAIRED/RELOCATED PER AIMA AGREEMENT

SOILS/INFILTRATION RATE: UNDERLYING SOILS ARE PRIMARILY SILT LOAM HYDROLOGIC SOIL GROUP B OR C.

GROUNDWATER ELEVATION: SEASONAL HIGH GROUND WATER ELEVATION UNKNOWN. Note: The exact location of all utilities shall be verified by the contractor prior to construction activities. For utility locations J.U.L.I.E. 1 (800) 892-0123

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF ILLINOIS.

SIGNATURE

MY LICENSE EXPIRES ON NOVEMBER 30, 2025

EXP. 11-30-25 INDEX TO SHEETS NO. DESCRIPTION C - 0.0COVER SHEET C - 1.0EXISTING CONDITIONS, DEMOLITION, AND EROSION CONTROL PLAN C-2.0SITE PLAN PRELIMINARY GRADING AND DRAINAGE PLAN C-2.1PRELIMINARY STORMWATER MANAGEMENT PLAN C - 2.2C - 3.0SITE DETAILS

**CLEAN FIELD** MAHWAH, NJ 07430

MUNICIPALITY APPROVAL STAMP

CONTRACTOR:

contact@inwavere.com **ELECTRICAL ENGINEER:** 



CIVIL ENGINEER BONO CONSULTING

**ENGINEERS** 

4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021

Phone 207.829.5016 • Fax 207.829.5692 • sme-engineers.cor

PROJECT NAME:

ORCHARD SOLAR

LOCATION:

41°44'24.3"N 88°25'26.9"W SUGAR GROVE. IL

**ISSUED FOR:** 08-25-2025 SITE CHECK SET SITE CHECK SET 09-05-2025 PROGRESS SET 09-10-2025 PROGRESS SET 09-17-2025 PROGRESS SET 09-18-2025

DATE: 09/17/2025

COVER SHEET

PROJECT #:

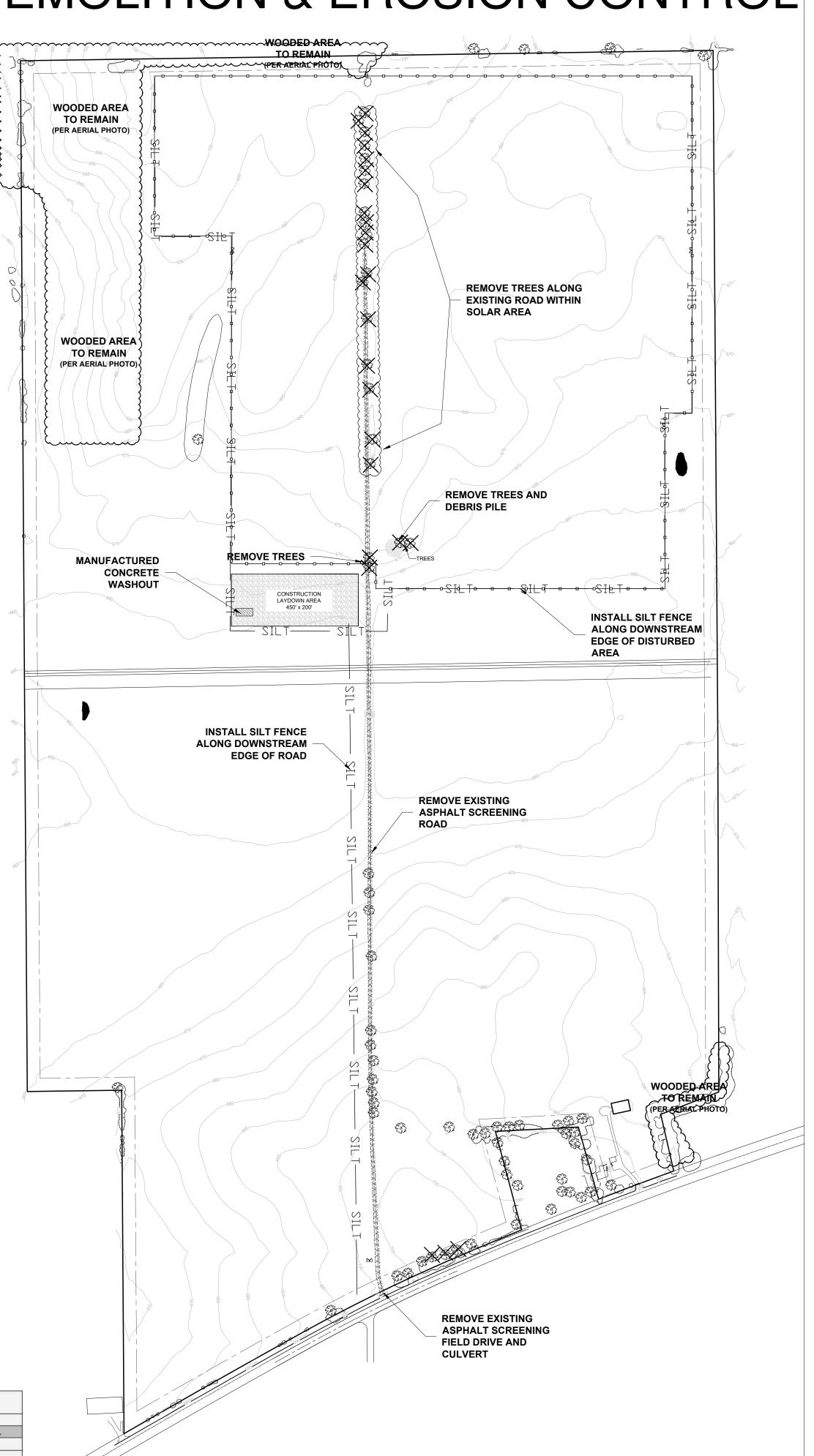
TITLE:

IW-101

SHEET

# EXISTING CONDITIONS WOODED AREA (PER AERIAL PHOTO) **SOIL EROSION AND SEDIMENTATION CONTROL NOTES:** 1. INSTALL ROW SILT FENCE PRIOR TO ANY EARTH DISTURBING ACTIVITIES. 3. A CONCRETE WASHOUT SHOULD BE PROVIDED ON-SITE. CONCRETE CANNOT BE WASHED OUT INTO THE PUBLIC RIGHT-OF-WAY OR STORM **DEMOLITION NOTES** 1. CONTRACTOR SHALL REMOVE THE EXISTING FARM ROAD AND CULVERT 2. CONTRACTOR TO REMOVE TREES AS SHOWN. IF ANY OTHER TREES ARE TO BE REMOVED DUE TO CONFLICT WITH PROPOSED IMPROVEMENTS, **EXISTING GRASS WATERWAY** CONTRACTOR MUST CONTACT BONO CONSULTING FOR APPROVAL. **WOODED AREA** 3. ALL DEMOLITION DEBRIS SHALL BE PROPERLY DISPOSED OF. (PER AERIAL PHOTO) **EXISTING WETLAND EXISTING TREES PER AERIAL PHOTO** PER DELINEATION EXISTING FARM ROAD **ASPHALT SCREENINGS EXISTING TREES DEBRIS PILE EXISTING TILE LINE EXISTING WETLAND** PER DELINEATION **AREA PER AERIAL** PHOTO EVIDENCE EXISTING FIELD DRIVE WITH CULVERT TEMPORARY SEEDING TO BE PROVIDED FOR ALL DISTURBED AREAS THAT WILL NOT BE DISTURBED FOR MORE THAN 14 DAYS PERMANENT SEEDING TO BE PIZZO NATIVE PLANT NURSERY LOW PROFILE PRAIRIE MIX **Temporary Seeding, Species, Rates, & Dates**

### DEMOLITION & EROSION CONTROL



MUNICIPALITY APPROVAL STAMP



CONTRACTOR:

MAHWAH, NJ 07430

RENEWABLES
NAPERVILLE, IL 60565

contact@inwavere.com

ELECTRICAL ENGINEER:

IE DESIGN PLLC
ELK GROVE VILLAGE

ELK GROVE VILLAGE, IL 60007 contact@iedesignco.com

PROFESSIONAL DESIGN FIRM

PROFESSIONAL DESIGN FIRM #
184.008367-0002

CIVIL ENGINEER:

1018 BUSSE HIGHWAY
PARK BIDGE II. 60068

PARK RIDGE, IL 6006
847-823-3300
bbono@bonoconsulting
4234 MERIDIAN PKWY
AURORA, IL 60504
331-229-3512
rwalker@bonoconsultin

Maher Engineers company

DESIGN FIRM NO

ENGINEERS

ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIAN

4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021

PROJECT NAME:

ORCHARD SOLAR

Phone 207.829.5016 • Fax 207.829.5692 • sme-engineers.com

LOCATION:

41°44'24.3"N 88°25'26.9"W SUGAR GROVE, IL

ISSUE #	ISSUED FOR:	DATE
1	SITE CHECK SET	08-25-2025
2	SITE CHECK SET	09-05-2025
3	PROGRESS SET	09-10-2025
4	PROGRESS SET	09-17-2025
5	PROGRESS SET	09-18-2025

SEAL:

CONSTRUCTION

DATE: 09/17/2025

TITLE:

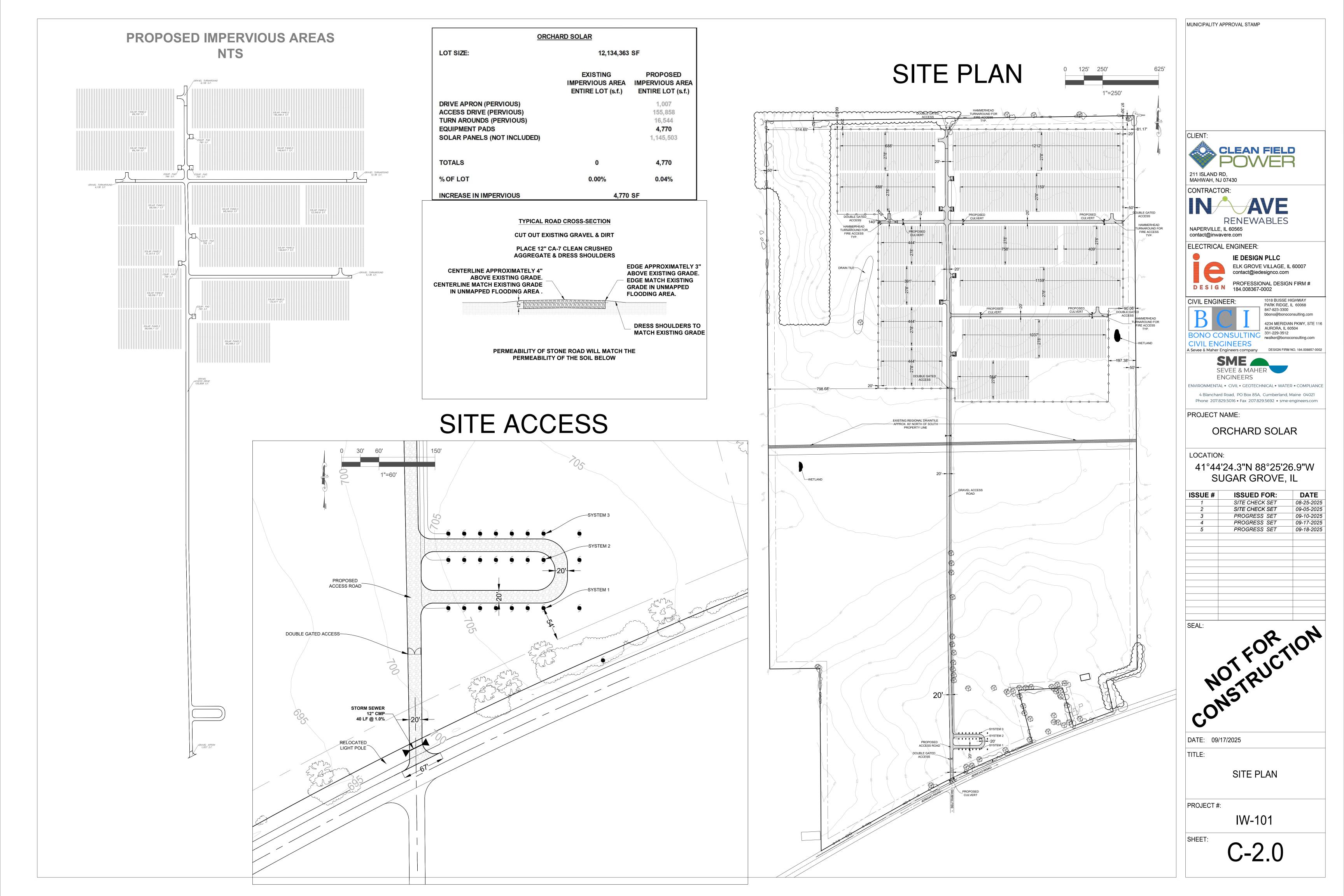
EXISTING CONDITIONS, DEMOLITION, EROSION CONTROL

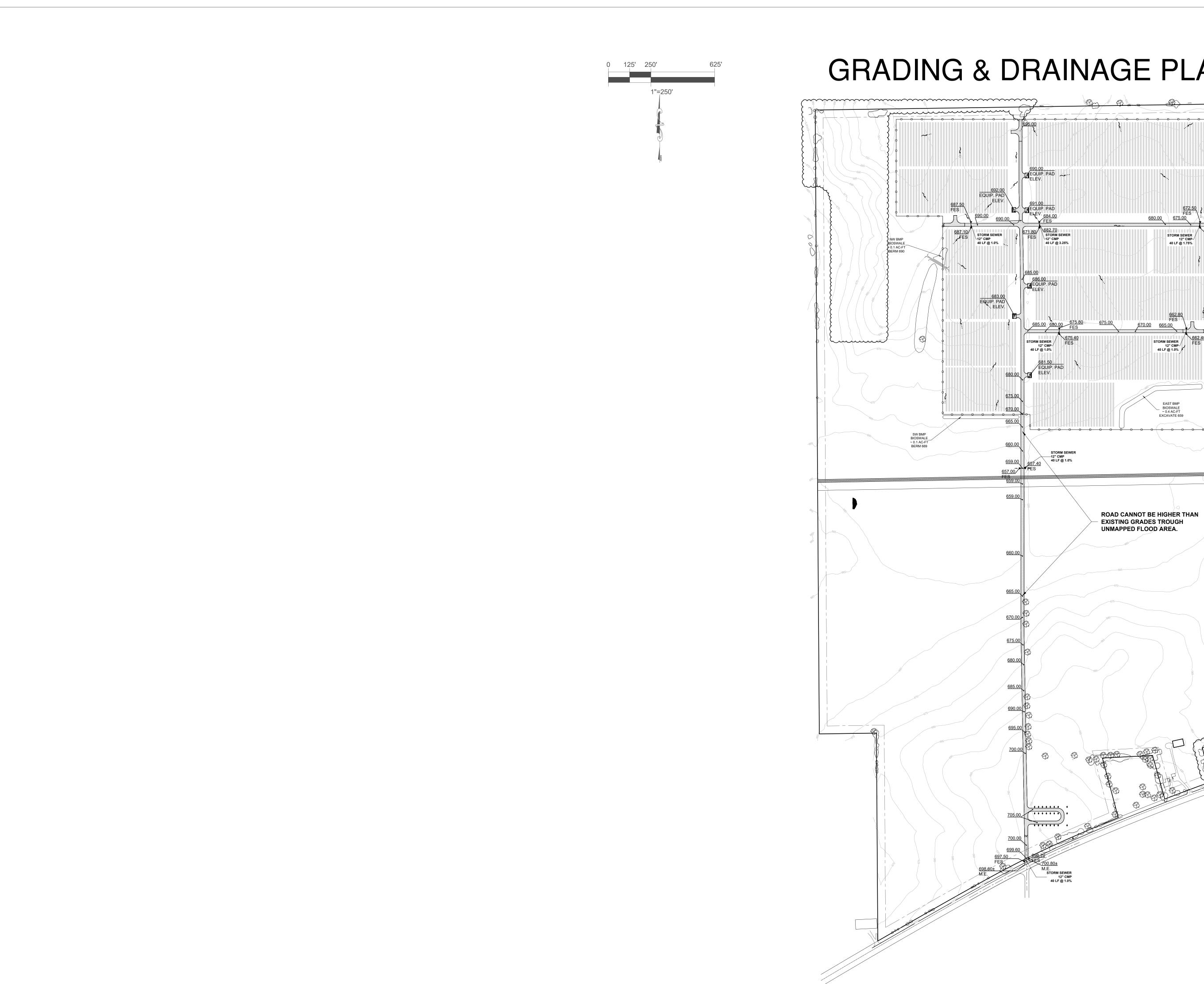
PROJECT #:

IW-101

EET:

C-1.0





GRADING & DRAINAGE PLAN

672.50 FES 680.00 675.00

STORM SEWER / 12" CMP 40 LF @ 1.0% .\*

EAST BMP
BIOSWALE
~ 0.4 AC-FT

EXCAVATE 659

STORM SEWER 12" CMP-40 LF @ 1.75%



**CLEAN FIELD** 211 ISLAND RD, MAHWAH, NJ 07430

CONTRACTOR:

NAPERVILLE, IL 60565 contact@inwavere.com

MUNICIPALITY APPROVAL STAMP

ELECTRICAL ENGINEER:

**IE DESIGN PLLC** ELK GROVE VILLAGE, IL 60007 contact@iedesignco.com PROFESSIONAL DESIGN FIRM # 184.008367-0002

CIVIL ENGINEER:

BONO CONSULTING 331-229-3512 rwalker@bonoconsulting.com

SEVEE & MAHER **ENGINEERS** 

4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021 Phone 207.829.5016 • Fax 207.829.5692 • sme-engineers.com

PROJECT NAME:

ORCHARD SOLAR

LOCATION:

41°44'24.3"N 88°25'26.9"W SUGAR GROVE, IL

ISSUE#	ISSUED FOR:	DATE
1	SITE CHECK SET	08-25-202
2	SITE CHECK SET	09-05-202
3	PROGRESS SET	09-10-20
4	PROGRESS SET	09-17-20
5	PROGRESS SET	09-18-20

PRELIMINARY GRADING AND DRAINAGE PLAN EARTHWORK ANALYSIS

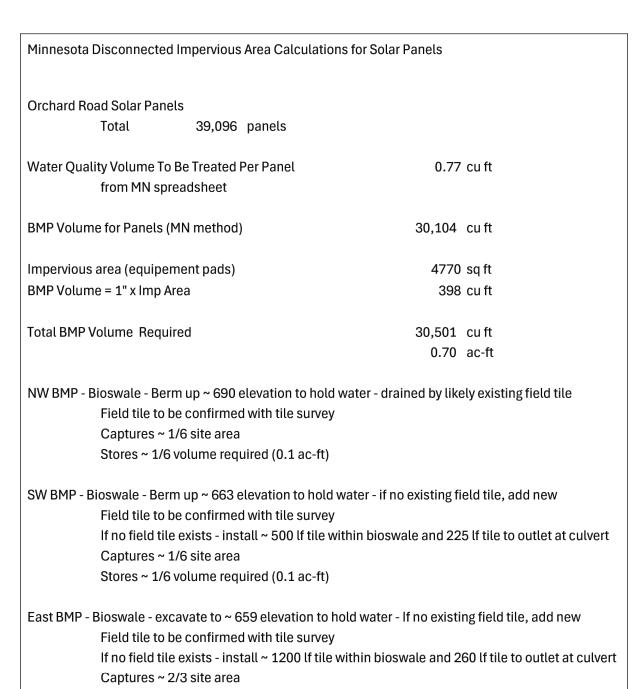
PROJECT #:

IW-101

C-2.1

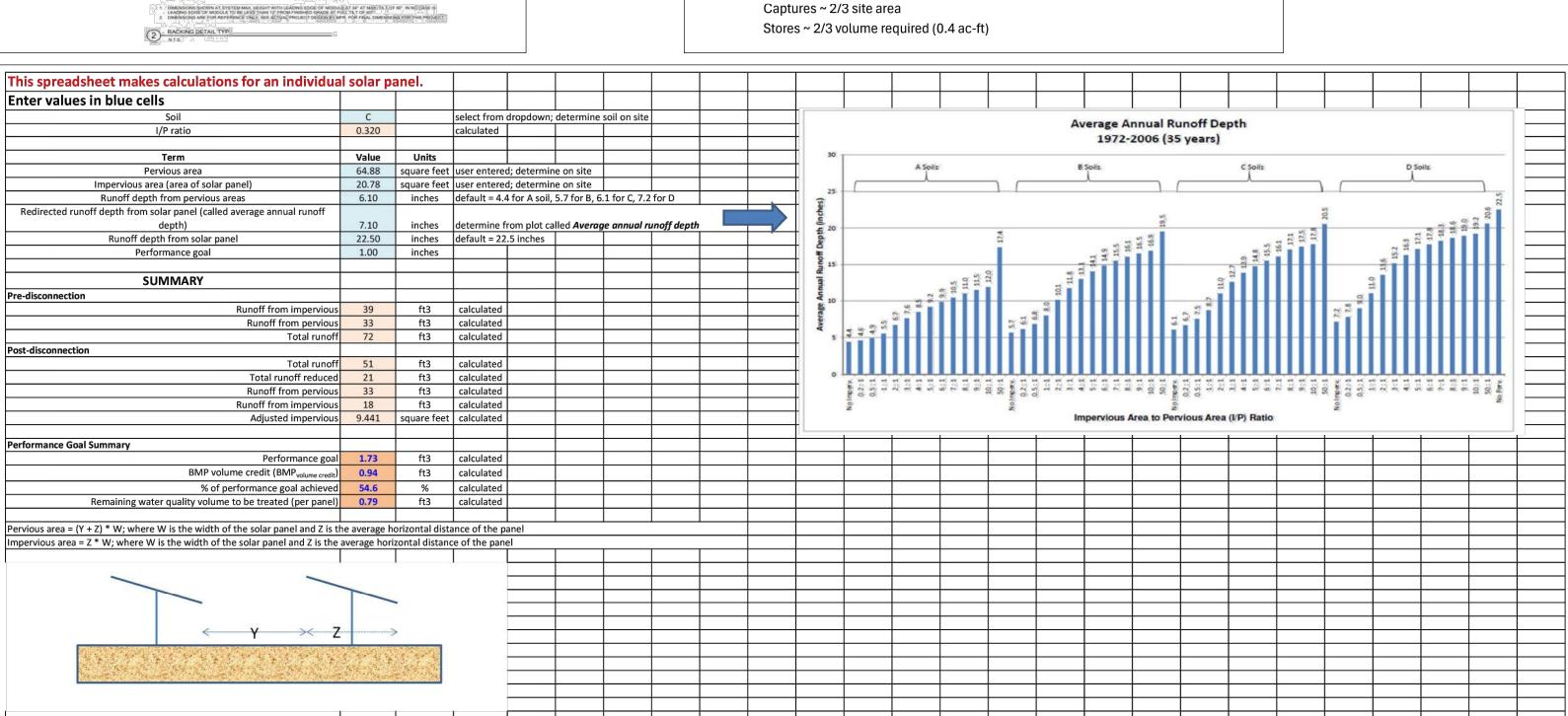
Minnesota Disconnected Impervious Area Calculations for Solar Panels Average Horizontal Length Beneath the Panel Ahnway Series Bi-55-520 to Bi-55-550 Solar Panels 2272 mm 7.45 ft Width 1133 mm 3.72 ft 10.00 ft Spacing Max Angle 1.04719755 radians 60 degrees Min Angle 0 degrees 0 radians Z = (cos(max angle) x length + cos(min angle) x length) / 2 5.59 ft Impervious Area of Solar Panel = Z x Width 20.78 sq ft Imp Area Pervious Area per Solar Panel = (Length + Spacing) x Width

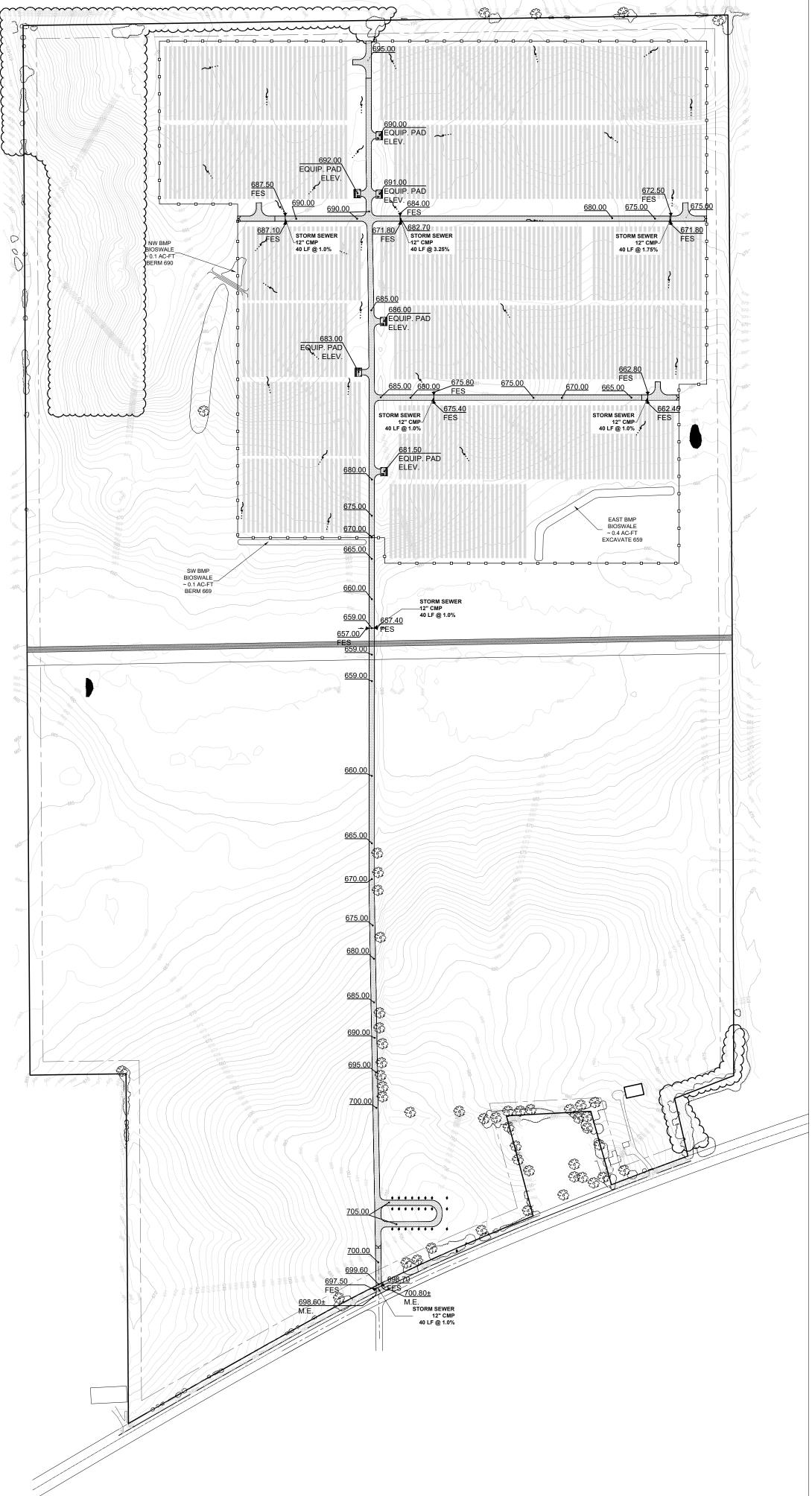
Perv Area 64.88 sq ft



0 125' 250'

1"=250"





MUNICIPALITY APPROVAL STAMP



MAHWAH, NJ 07430 CONTRACTOR:

NAPERVILLE, IL 60565

contact@inwavere.com

ELECTRICAL ENGINEER:



ELK GROVE VILLAGE, IL 60007 contact@iedesignco.com PROFESSIONAL DESIGN FIRM # 184.008367-0002

CIVIL ENGINEER: PARK RIDGE, IL 60068 847-823-3300

**ENGINEERS** 

bbono@bonoconsulting.com 4234 MERIDIAN PKWY, STE 116 AURORA, IL 60504 BONO CONSULTING 331-229-3512 rwalker@bonoconsulting.com CIVIL ENGINEERS

A Sevee & Maher Engineers company DESIGN FIRM NO. 184.008857-0002 SEVEE & MAHER

ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE 4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021 Phone 207.829.5016 • Fax 207.829.5692 • sme-engineers.com

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41°44'24.3"N 88°25'26.9"W SUGAR GROVE, IL

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DATE: 09/17/2025

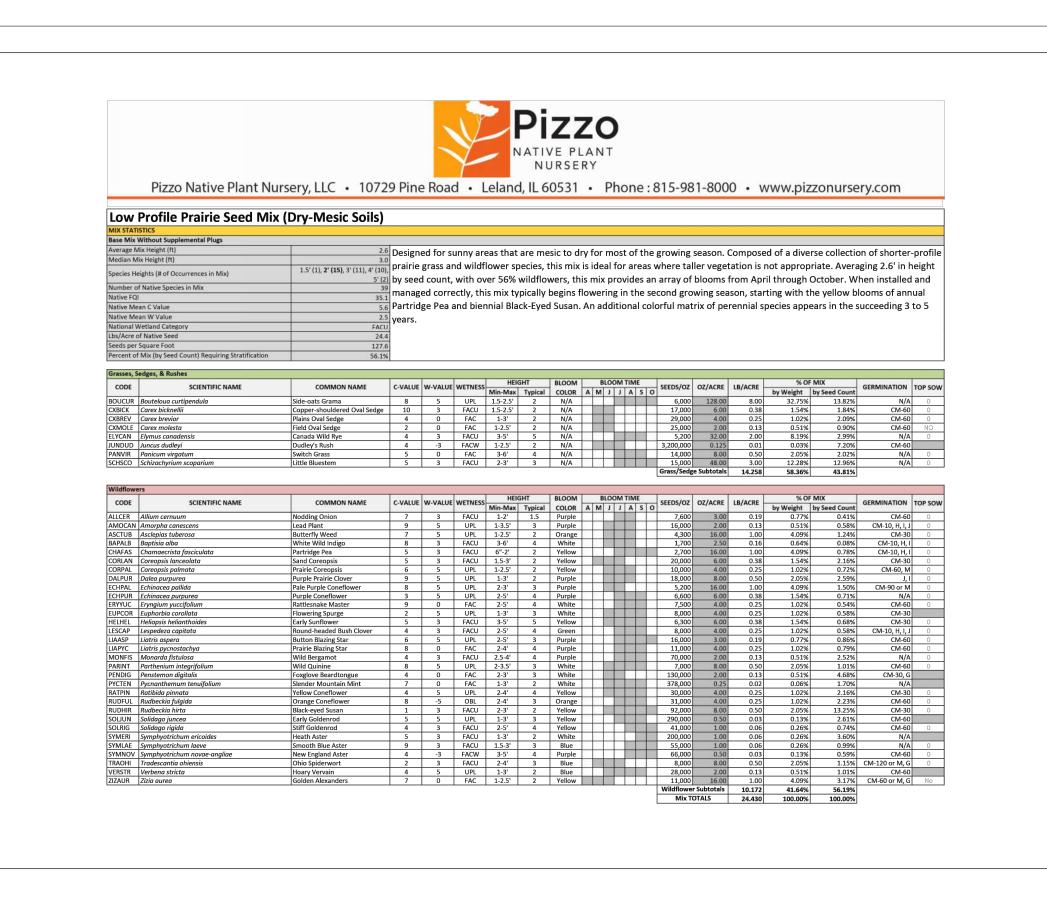
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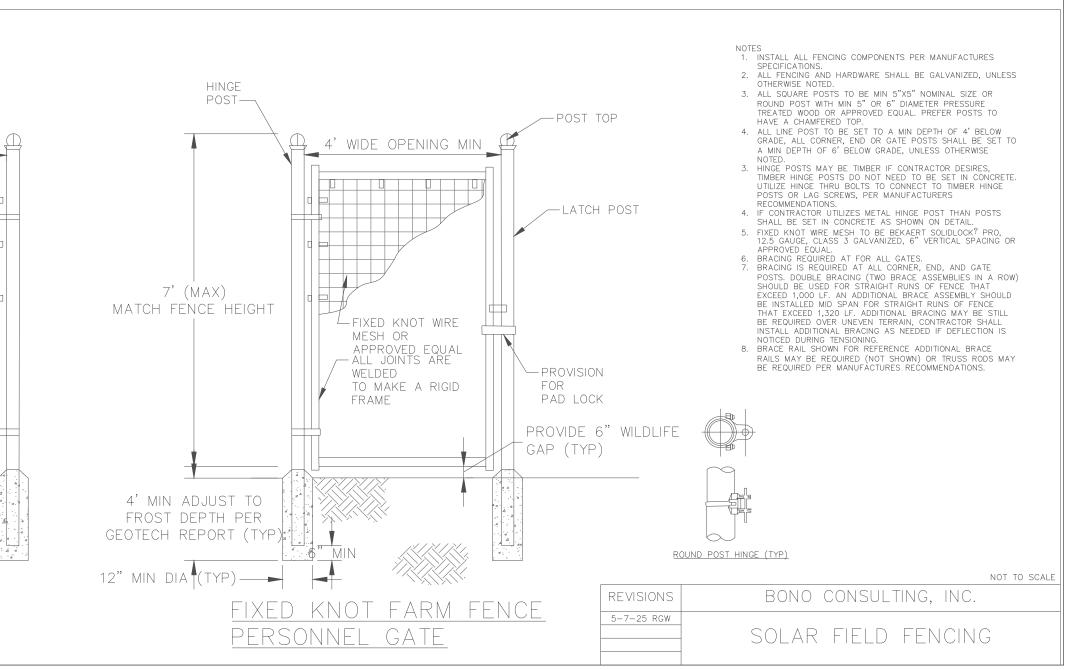
PRELIMINARY STORMWATER MANAGEMENT PLAN

PROJECT #:

IW-101

C-2.2





MUNICIPALITY APPROVAL STAMP



MAHWAH, NJ 07430 CONTRACTOR:

NAPERVILLE, IL 60565 contact@inwavere.com

ELECTRICAL ENGINEER:



**IE DESIGN PLLC** ELK GROVE VILLAGE, IL 60007 contact@iedesignco.com

PROFESSIONAL DESIGN FIRM # 184.008367-0002

CIVIL ENGINEER:

PARK RIDGE, IL 60068 847-823-3300 bbono@bonoconsulting.com 4234 MERIDIAN PKWY, STE 116 AURORA, IL 60504 BONO CONSULTING 331-229-3512 rwalker@bonoconsulting.com

CIVIL ENGINEERS A Sevee & Maher Engineers company DESIGN FIRM NO. 184.008857-0002

**SME** SEVEE & MAHER **ENGINEERS** 

ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE 4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021 Phone 207.829.5016 • Fax 207.829.5692 • sme-engineers.com

PROJECT NAME:

ORCHARD SOLAR

LOCATION:

41°44'24.3"N 88°25'26.9"W SUGAR GROVE, IL

ISSUE #	<b>ISSUED FOR:</b>	D
1	SITE CHECK SET	08-2
2	SITE CHECK SET	09-0
3	PROGRESS SET	09-1
4	PROGRESS SET	09-1
5	PROGRESS SET	09-

DATE: 09/17/2025

TITLE:

**DETAILS** 

PROJECT #:

IW-101

SHEET:

C-3.0

