
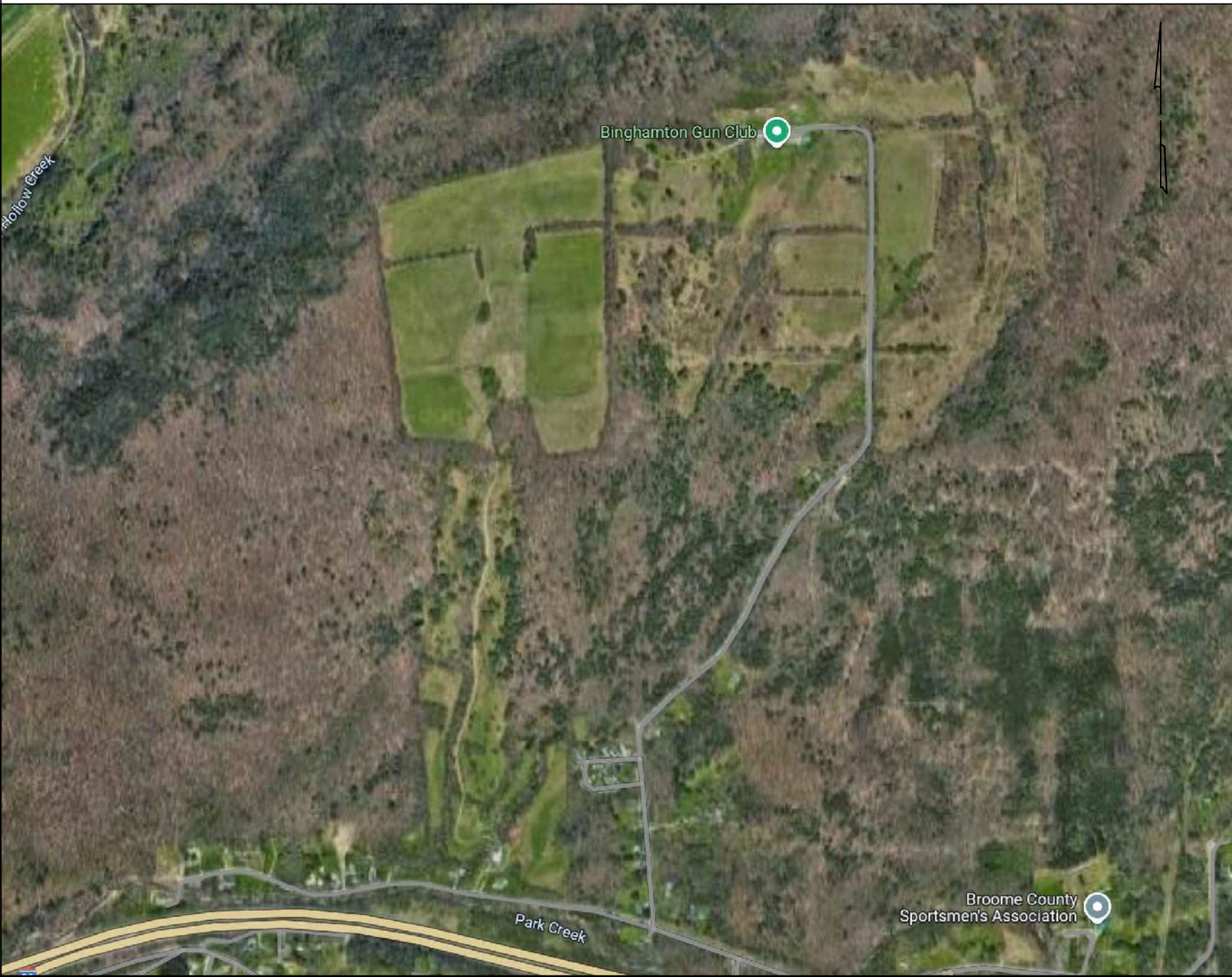


NSF KIRKWOOD SOLAR PROJECT

TOWN OF KIRKWOOD, 149 QUILTY HILL ROAD &
165 FOLEY ROAD, BROOME COUNTY, NY
22.5 MW DC RATED SOLAR ELECTRIC SYSTEM

GENERAL NOTES		PROJECT SCOPE		LOCATION MAP		DRAWING LIST																																																											
<div><div>1. AS CONTAINED HEREIN, CONTRACTOR" IS ASSUMED TO BE NORBUT SOLAR FARMS, LLC. AND "SUBCONTRACTOR" IS NORBUT SOLAR FARMS, LLC'S INSTALLATION SUBCONTRACTOR.</div><div>2. THESE NOTES SET MINIMUM TECHNICAL STANDARDS FOR CONSTRUCTION. THE DRAWINGS GOVERN OVER THESE NOTES TO THE EXTENT SHOWN.</div><div>3. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING: LOCAL BUILDING CODE, LOCAL ELECTRICAL CODE, ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK AND THOSE CODES AND STANDARDS LISTED IN THESE DRAWINGS AND IN THE SUBCONTRACTOR AGREEMENT.</div><div>4. COORDINATE THESE DRAWINGS WITH SPECIFICATIONS AND MANUFACTURER INSTALLATION AND OPERATION MANUALS AND NOTIFY NORBUT SOLAR FARMS, LLC. OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.</div><div>5. DRAWINGS HAVE BEEN DETAILED IN COMPLIANCE WITH U.L. LISTING REQUIREMENTS AND THE BUILDING CODE FOR THE MATERIALS SPECIFIED. IF AN ALTERNATIVE OR SUBSTITUTED MATERIAL IS ACCEPTED AS AN EQUAL BY NORBUT SOLAR FARMS LLC., THE SUBCONTRACTOR WILL ASSUME THE RESPONSIBILITY FOR WHATEVER CONSTRUCTION MODIFICATION AND/OR ADDITIONAL COST THAT IS REQUIRED BY REASON OF THIS ACCEPTANCE.</div><div>6. PRIOR TO THE COMMENCEMENT OF ANY WORK, EACH TRADE SHALL VERIFY EXISTING CONDITIONS AND NOTIFY NORBUT SOLAR FARMS, LLC. OF ANY DISCREPANCIES TO THAT WHICH IS SHOWN IN THESE DRAWINGS, INCLUDING BUT NOT LIMITED TO DIMENSIONS OF THE WORK AREA, STRUCTURE, EXISTING ELECTRICAL SERVICE, CONDUIT PATHS, OBSTRUCTIONS, ACCESSIBILITY ISSUES, AND WORKING CLEARANCES. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE SUBCONTRACTOR AT HIS OWN EXPENSE.</div><div>7. SUBCONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO NORBUT SOLAR FARMS, LLC. FOR APPROVAL PRIOR TO MAKING ANY CHANGES. APPROVED CHANGED REQUIRE A DRAWING REVISION TO MAINTAIN CONTROL OVER THE APPROVED DESIGN. DEVIATION FROM THESE PLANS PRIOR TO NORBUT SOLAR FARMS, LLC. APPROVAL PLACES ALL LIABILITY ON THE SUBCONTRACTOR .</div><div>8. UNLESS INDICATED AS EXISTING (E), ALL PROPOSED MATERIALS AND EQUIPMENT ARE NEW.</div><div>9. ALL ITEMS TO BE REMOVED AND RELOCATED OR REPLACED SHALL BE HANDLED WITH PROPER CARE AND STORED IN A SAFE PLACE TO PREVENT DAMAGE, OR BE REPLACED AT THE SUBCONTRACTOR'S EXPENSE.</div><div>10. ALL EQUIPMENT SHALL BE MOUNTED AS SHOWN, WHERE DETAILS ARE NOT PROVIDED, THE SUBCONTRACTOR SHALL USE DILIGENT EFFORTS TO MOUNT EQUIPMENT SUCH THAT IT WILL BE CLEAN, LEVEL AND SOLID.</div><div>11. ALL SURFACES SHALL BE PATCHED AND PAINTED AROUND NEW DEVICES AND EQUIPMENT TO MATCH EXISTING FINISHES.</div><div>12. ANY METAL SHAVINGS RESULTING FROM SITE WORK SHALL BE CLEANED FROM ROOF SURFACES, ENCLOSURES AND ANY ADDITIONAL AREAS WHERE OXIDIZED OF CONDUCTIVE METAL SHAVINGS MAY CAUSE RUST, ELECTRICAL SHORT CIRCUITS OR OTHER DAMAGE.</div><div>13. NO STRUCTURAL MEMBER SHALL BE DRILLED UNLESS SPECIFICALLY AUTHORIZED BY NORBUT SOLAR FARMS, LLC.</div><div>14. SUBCONTRACTOR ACKNOWLEDGES THAT THE SYSTEM AS INDICATED ON THE PLANS REQUIRES ALL COMPONENTS TO BE INSTALLED TO PROPERLY RESIST WIND LOADS, SUCH AS BALLAST, WIND DEFLECTORS, ETC. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR TO PROVIDE TEMPORARY MEANS TO RESIST WIND LOADS FOR ALL COMPONENTS NOT YET INSTALLED DURING AND AFTER REGULAR WORKING HOURS. THIS MAY INCLUDE TEMPORARY TIE DOWNS, COVERING, BALLAST OR ANY OTHERS, DAMAGE TO ANY INSTALLED SYSTEM COMPONENT OR THE EXISTING FACILITY AS A RESULT OF THE UNFINISHED CONDITION NOT ADEQUATELY RESISTING WIND SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR TO REPAIR OR REPLACE AT THE SUBCONTRACTOR'S COST.</div><div>15. TREES MAY GROW DURING THE LIFE OF THE SYSTEM AND IMPACT THE PRODUCTION.</div></div>		<div>THIS PROJECT CONSISTS OF THE INSTALLATION OF SOLAR MODULES PER THE SYSTEM DESCRIPTION, BELOW. THE MODULES WILL BE INSTALLED ON A GROUND MOUNTED RACKING SYSTEM. THE MODULES WILL BE WIRED IN SERIES STRINGS AND CONNECTED IN PARALLEL TO THE INVERTERS, WHICH CONVERT THE PHOTOVOLTAIC OUTPUT POWER FROM DC TO AC. 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Tectonic

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Project: 12097.006
Title: TITLE SHEET
Date: 12/09/2024
Author: J. Mark Privette
Reviewed: J. Mark Privette
Approved: J. Mark Privette
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DEVELOPER:
NORBUT SOLAR FARMS, LLC
1241 UNIVERSITY AVENUE
ROCHESTER, NY 14607
(585) 504-2211

PAGE SIZE
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PROJECT #
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DATE	REVISION DESCRIPTION	PM	ENG	CNC
01/03/25	FOR COMMENT			
03/26/25	FOR COMMENT			



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NORBUT SOLAR FARMS

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DRAWING #
T1

GENERAL CONSTRUCTION NOTES

- A.

IN THESE DOCUMENTS THE DEVELOPER IS NORBUT SOLAR FARMS.
- B.

ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO IN THESE PLANS SHALL BE OF THE CURRENT REVISION.
- C.

ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
- D.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRE-CAST AND MANUFACTURED ITEMS TO THE OWNER'S ENGINEER FOR APPROVAL. FAILURE TO OBTAIN APPROVAL BEFORE FABRICATION AND/OR INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE.
- E.

WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH NORBUT, OTHER CONTRACTORS AND UTILITY COMPANIES (INCLUDING, BUT NOT LIMITED TO LIGHTING, POWER, TELEPHONE, CABLE, GAS, ETC....).
- F.

CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE SPDES PERMIT FROM NYSDEC. CONTRACTOR SHALL COORDINATE ALL ENVIRONMENTAL ISSUES WITH THE NORBUT ENVIRONMENTAL CONSULTANT.
- G.

THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR CALLED FOR IN THIS CONTRACT.
- H.

ALL UNDERGROUND UTILITIES, INCLUDING DUCTBANKS NOT UNDER THE DRIVEWAY/TRAVELWAYS, MUST BE IN PLACE AND TESTED OR INSPECTED PRIOR TO BASE AND PAVEMENT CONSTRUCTION.
- I.

SEVEN (7) DAYS NOTICE IS REQUIRED TO THE PERTINENT GOVERNMENT AGENCIES AND THE ENGINEER PRIOR TO SITE INSPECTIONS AND/OR WITNESSING ANY SITE/CIVIL TESTING.
- J.

NORBUT SOLAR FARMS WILL SCHEDULE PRECONSTRUCTION MEETINGS WITH OTHER JURISDICTIONAL AGENCIES AS NECESSARY.
- K.

CONSTRUCTION SHALL ADHERE TO APPLICABLE AGENCY CRITERIA, PERMIT CONDITIONS, AS WELL AS SPECIFICATIONS PROVIDED BY OWNER.
- L.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH NORBUT CONCERNING LIMITS OF CONSTRUCTION, TRANSITIONS, ETC. WHICH MAY NOT BE SHOWN ON THESE PLANS.
- M.

CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE OWNER OR ENGINEER IMMEDIATELY FOR RESOLUTION.

SAFETY NOTES

- A.

DURING THE CONSTRUCTION AND MAINTENANCE OF THIS PROJECT, ALL OSHA AND NY STATE SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS PERSONNEL.
- B.

LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION AND CONSTRUCTION WORK PER STANDARD 1910.12.
- C.

CONTRACTOR SHALL PROVIDE AND MAINTAIN ITS OWN SAFETY EQUIPMENT IN ACCORDANCE WITH ITS HEALTH & SAFETY PROGRAM AND ALL OTHER APPLICABLE LEGAL AND HEALTH AND SAFETY REQUIREMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING ITS EMPLOYEES AND SUB CONTRACTORS WITH ADEQUATE INFORMATION AND TRAINING TO ENSURE THAT ALL EMPLOYEES AND SUB CONTRACTORS AND SUB CONTRACTOR'S EMPLOYEES COMPLY WITH ALL APPLICABLE REQUIREMENTS. CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH ALL OCCUPATION SAFETY AND HEALTH REGULATIONS AS WELL AS THE ENVIRONMENTAL PROTECTION LAWS. THE FOLLOWING IS NOT TO BE PERCEIVED AS THE ENTIRE SAFETY PROGRAM BUT JUST BASIC REQUIREMENTS.
- D.

ALL EXCAVATIONS BY THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION RULES AND REGULATIONS. PARTICULAR ATTENTION MUST BE PAID TO THE CONSTRUCTION STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926, SUBPART P.
- E.

ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.
- F.

IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.
- G.

THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL LOCATE ALL EXISTING BURIED UTILITIES BY HAND-DIG METHODS. THE CONTRACTOR SHALL OBTAIN PERTINENT APPROVALS AND PERMITS FROM THE LOCAL JURISDICTION PRIOR TO ALL EXCAVATIONS.

CONSTRUCTION SEQUENCING

CONSTRUCTION SEQUENCING WILL BEGIN WITH SITE MOBILIZATION, INCLUDING ESTABLISHMENT OF SITE SAFETY AND SECURITY MEASURES, SURVEY AND STAKING OF THE SITE PERIMETER TO ESTABLISH THE LIMITS OF DISTURBANCE. ALL STORMWATER POLLUTION PREVENTION (SWPP) MEASURES WILL THEN BE PUT IN PLACE AROUND THE PERIMETER AND IN OTHER AREAS AS INDICATED IN THE SWPP PLAN PRIOR TO ANY SITE DISTURBANCES TO MANAGE STORMWATER THROUGHOUT CONSTRUCTION. SITE ACCESS ROADS AND TEMPORARY CONSTRUCTION ROADS WILL THEN BE CONSTRUCTED FOLLOWED BY ANY REQUIRED TREE CLEARING, REMOVAL OF VEGETATION AND REMOVAL OF ANY DEBRIS OR OTHER MATERIALS FROM SITE THAT CAN NOT BE USED ON THE PROJECT.

CIVIL EARTHWORKS WILL BEGIN BY GRADING THE PROPOSED ROADS & EQUIPMENT AREAS TO THE FINAL DESIGN TOPOGRAPHY THROUGHOUT THE ARRAY. THE INSTALLATION OF THE ARRAY RACKING SYSTEM WILL THEN BEGIN WITH THE INSTALLATION OF THE VERTICAL PILES, WITH TRENCHING FOR BURIED CABLING ALSO BEING DONE IN PARALLEL. SUPPORTING STRUCTURES FOR THE SOLAR PANELS WILL BE INSTALLED ON THE PILES ONCE A SIGNIFICANT PORTION OF PILES ARE INSTALLED. CIVIL CREWS WILL CONTINUE BY PREPARING EQUIPMENT SLABS AND FOUNDATIONS FOR MAJOR EQUIPMENT SUCH AS INVERTERS, TRANSFORMERS AND OTHER PAD MOUNTED EQUIPMENT.

WITH A SIGNIFICANT PORTION OF THE PANEL SUPPORT STRUCTURE IN PLACE, CREWS WILL THEN BEGIN INSTALLING THE SOLAR PANELS ON THE STRUCTURES AS WELL AS THE INSTALLATION OF ELECTRICAL CABLING WITHIN THE ARRAY AND INSTALLATION OF COMBINER BOXES AND EQUIPMENT INSTALLED WITHIN THE ARRAY ITSELF. CONSTRUCTION AT THE POINT OF INTERCONNECTION (POI) WILL BEGIN NEAR THE END OF TRENCHING TO ALIGN WITH THE MEDIUM VOLTAGE RUN FROM THE ARRAY TO THE POI. ONCE THE POI IS ESTABLISHED, EQUIPMENT AT THE POI WILL BE INSTALLED AND COORDINATION WITH THE UTILITY TO HAVE UTILITY OWNED EQUIPMENT INSTALLED WILL OCCUR. WHEN THE EQUIPMENT IS COMPLETELY INSTALLED AND ALL ELECTRICAL CABLING IS COMPLETE, ALL FINAL TERMINATIONS WITHIN EQUIPMENT CABINETS WILL BE COMPLETED AND ALL ELECTRICAL CHECKS AND TESTING WILL BE CONDUCTED.

THE SYSTEM WILL BE INSPECTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) TO ENSURE THE SYSTEM IS INSTALLED PER THE DESIGN AND ALL RELEVANT CODES. THE UTILITY WILL THEN CONDUCT TESTING PRIOR TO ALLOWING THE SYSTEM TO BE ENERGIZED FOR TESTING UNDER LOAD. WITH THE APPROVAL OF THE AHJS AND THE UTILITY, THE SYSTEM WILL THEN REMAIN ENERGIZED FOR PERFORMANCE TESTING WHILE ANY SITE RESTORATION ACTIVITIES ARE COMPLETED. ONCE THE SYSTEM HAS BEEN FULLY TESTED AND ALL DESIGN REQUIREMENTS HAVE BEEN MET, THE SITE WILL UNDERGO FINAL INSPECTIONS BY ALL AHJS. AFTER ALL FINAL INSPECTIONS ARE CARRIED OUT AND PERMITS ARE CLOSED, THE SWPP MEASURES WILL BE REMOVED AND ANY REMAINING CONSTRUCTION ASSETS WILL BE DEMOBILIZED, CONCLUDING ALL CONSTRUCTION ACTIVITIES.

PROJECT SPECIFIC NOTES

- A.

THE CONTRACTOR IS TO COORDINATE HIS WORK AND SITE ACCESS WITH THE OTHER ENTITIES THAT MAY BE WORKING ON SITE. ANY CONFLICTS ON COORDINATION ISSUES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND/OR ENGINEER FOR MUTUAL RESOLUTION.
- B.

THE PROPOSED PROJECT WILL NOT ADVERSELY AFFECT SIGNIFICANT HISTORICAL OR ARCHEOLOGICAL RESOURCES UNDER THE PROVISIONS OF SECTION 106 AND 36 CFR PART 800 OR OTHER APPLICABLE STATE AND FEDERAL STATUTES. IF EVIDENCE OF THE EXISTENCE OF HISTORIC OR ARCHEOLOGICAL RESOURCES IS DISCOVERED OR OBSERVED AT DEVELOPMENT SITES OR DURING DEVELOPMENT ACTIVITIES AFTER FINAL APPROVAL, ALL WORK SHALL CEASE IN THE AREA OF EFFECT AS DETERMINED BY THE DIRECTOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER IMMEDIATELY, AND THE DEPARTMENT OF HISTORICAL RESOURCES WITHIN TWO WORKING DAYS. EXAMPLES OF EVIDENCE OF HISTORIC RESOURCES INCLUDE WHOLE OR FRAGMENTARY STONE TOOLS, SHELL TOOLS, ABORIGINAL OR HISTORIC POTTERY, HISTORIC GLASS, HISTORIC BOTTLES, BONE TOOLS, HISTORIC BUILDING FOUNDATIONS, SHELL MOUNDS, SHELL MIDDENS, OR SAND MOUNDS. THE APPROPRIATE NY STATE AGENCY SHALL ASSESS THE SIGNIFICANCE OF THE FINDS AND MITIGATE ANY ADVERSE EFFECTS AS SOON AS POSSIBLE, BUT NO LATER THAN THIRTY DAYS OF NOTIFICATION.
- C.

THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND SHALL NOT SCALE FROM DRAWINGS. THE DIMENSIONS OF SPECIFIED AND FURNISHED PRODUCTS AND MATERIALS TAKE PRECEDENCE OVER DIMENSIONS AND NOTES SHOWN ON THE DRAWINGS.
- D.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING OR PROPOSED UTILITIES, STRUCTURES, AND OTHER IMPROVEMENTS CAUSED BY HIS/HER ACTIVITIES.
- E.

THE CONTRACTOR IS RESPONSIBLE FOR BRACING, SHORING, OR PROVIDING OTHER MEANS NECESSARY TO PROTECT AND SUPPORT EXISTING AND PROPOSED UTILITIES AND STRUCTURES EXPOSED OR UNEXPOSED DURING CONSTRUCTION.
- F.

REFERENCES TO NYSDOT SPECIFICATIONS SHALL REFER TO THE CURRENT EDITION OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS.
- G.

NYSDOT INDICES SHALL REFER TO THE CURRENT EDITION OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION HIGHWAY SAFETY ADMINISTRATION DESIGN STANDARDS.

TESTING SCHEDULE

ITEM	TEST
PIPE TRENCH BACK FILL (SEE NOTE 1 BELOW) OVER PIPELINES AND AROUND STRUCTURES FROM R.O.W. LINE TO R.O.W. LINE AND IN STRUCTURAL AREAS	OPTIMUM MOISTURE/MAXIMUM DENSITY GRADATION (1 TEST PER 50 CY) DETERMINED BY AASHTO T180-57 (ASTM 95% OF MAXIMUM DENSITY AS D1557-70)
STABILIZED SUB GRADE	SCARIFIED AND COMPACTED TO A MINIMUM OF NINETY-FIVE PERCENT (95%) OF THE MAXIMUM STANDARD PROCTOR DENSITY (ASTM D698).
BASE COURSE (AASHTO #57 COARSE AGGREGATE)	OPTIMUM MOISTURE/MAXIMUM DENSITY MINIMUM 100 LBR COMPACTION OF OPEN GRADED AGGREGATE BY VIBRATORY OR PLATE COMPACTOR FOR A DUMPED HEIGHT REDUCTION OF 1" GRADATION: 100% PASSING 1-1/2" SCREEN, 95-100% PASSING 1" SCREEN, 25-60% PASSING 1/2" SCREEN, 0-10% PASSING #4 SCREEN, AND 0-5% #8 SCREEN
CONCRETE (SEE NOTE 3 BELOW) (PER AASHTO & ASTM SPECS)	SLUMP TEST MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS COMPRESSIVE STRENGTH CYLINDERS AIR CONTENT
RECLAIMED CRUSHED CONCRETE	OPTIMUM MOISTURE/MAXIMUM DENSITY GRADATION

1.

ALL TESTING SHALL BE PERFORMED BY AN INDEPENDENT 3RD PARTY AND SUBSEQUENT REPORTS FURNISHED TO NORBUT WITHIN FOURTEEN (14) DAYS OF COMPLETION.
2.

PIPE TRENCH BACKFILL SHALL BE TESTED EVERY 50 FEET FOR EACH 12 INCH LIFT. TESTS SHALL BE PERFORMED ON EACH LIFT, EXCEPT THAT TESTS SHALL NOT BE FURTHER APART THAN ONE (1) FOOT VERTICALLY. FIELD DENSITIES SHALL BE TAKEN OVER ALL ROAD CROSSINGS. FIELD DENSITIES FOR SANITARY LINES SHALL BE STAGGERED TO INCLUDE RESULTS OVER SERVICE LATERALS. THERE SHALL BE A MINIMUM OF ONE (1) TEST SERIES FOR EACH 6 INCHES OF LIFT OVER PIPELINE BETWEEN MANHOLES. TESTS AROUND STRUCTURES SHALL BE SPIRALED IN 6 INCH LIFTS.
3.

FOR FLEXIBLE PIPE (CORRUGATED STEEL OR ALUMINUM), 95% OF MAXIMUM DENSITY (AASHTO-T99) PER NYSDOT SPECIFICATIONS AS MODIFIED.
4.

APPLIES TO SITE CONCRETE SUCH AS CURBS, GUTTERS, FLUMES, DRIVEWAYS AND SIDEWALKS.
5.

ENGINEER OF RECORD SHALL RECEIVE MATERIAL TESTING REPORTS NO LATER THAN ONE (1) WEEK FROM THE TEST DATE.
6.

EMBANKMENT, FILL, AND BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED IN LIFTS NOT TO EXCEED TWELVE (12) INCHES VERTICALLY. ONE TEST PER 2,500 SQUARE FEET. EACH COMPACTED LIFT SHALL PASS THE AFOREMENTIONED TESTING CRITERIA BEFORE PROCEEDING TO THE NEXT VERTICAL LIFT.
6.

IF SUCCESSIVE VERTICAL LIFTS ARE PLACED, THE DENSITY TESTS SHALL BE STAGGERED SO AS TO NOT BE REPEATED IN THE SAME LOCATION.

SURVEY NOTES

(AS PROVIDED BY SURVEYOR)

SURVEY BY JHA COMPANIES, DATED AUGUST 17, 2023

AQUATIC RESOURCE INVESTIGATION WAS CONDUCTED BY ARM GROUP LLC ON JUNE 19, 2023.

THE BASIS OF BEARING FOR THIS SURVEY IS NEW YORK STATE PLANE COORDINATE SYSTEM CENTRAL ZONE NAD83

FLOOD_ZONE_INFORMATION:

THE SUBJECT PROPERTY FALLS WITHIN FLOOD_ZONE 'X' AS PER THE NATIONAL FLOOD INSURANCE RATE MAP FOR THE TOWN OF KIRKWOOD, COUNTY OF BROOME, STATE OF NEW YORK, COMMUNITY PANEL NO #36007C0381F, EFFECTIVE DATE OF 02/05/2010 (PRELIMINARY). THIS DETERMINATION IS BASED ON SCALED MAP LOCATION AND GRAPHIC PLOTTING.

NOTE:

ALL CONSTRUCTION SHALL CONFORM TO THE TOWN OF KIRKWOOD DESIGN & CONSTRUCTION STANDARDS.

PROJECT NAME:
NSF KIRKWOOD
SOLAR PROJECT
TOWN OF KIRKWOOD
BROOME COUNTY, NY

SHEET NAME:
GENERAL NOTES

DRAWING #
GN-1

DEVELOPER:
NORBUT SOLAR FARMS, LLC
1241 UNIVERSITY AVENUE
ROCHESTER, NY 14607
(585) 504-2213

PROJECT #
12097.006

NSF KIRKWOOD
SOLAR FARMS

Vertical Engineering Consultants, Engineers & Land Surveyors, D.P.C.
1000 Southwestern Blvd., Suite 200
P.O. Box 37
Rochester, NY 14603
Phone: (585) 424-4831
www.verticalengineering.com

Tectonic
Vertical Engineering Consultants, Engineers & Land Surveyors, D.P.C.
1000 Southwestern Blvd., Suite 200
P.O. Box 37
Rochester, NY 14603
Phone: (585) 424-4831
www.tectonicengineering.com

REVISION DESCRIPTION
DATE
01/03/25
FOR COMMENT
02/26/25
FOR COMMENT

PN ENG CHG
GB JMD
GB JMD

J. Mark Pivette PE
NY Reg # 100245-1

A schematic diagram of a polymer chain. It consists of a horizontal line of circles representing monomers. Two 'X' marks are placed on the chain, with a red line segment labeled 'E' above each 'X'. The diagram is set against a background of horizontal lines, with a thick blue line at the top.

1. MAP NO. 101	10. MAP NO. 109
2. MAP NO. 101R-1	11. MAP NO. 110
3. MAP NO. 102	12. MAP NO. 111
4. MAP NO. 103	13. MAP NO. 112
5. MAP NO. 104	14. MAP NO. 113
6. MAP NO. 105	15. MAP NO. 114
7. MAP NO. 106	16. MAP NO. 115
8. MAP NO. 107	17. MAP NO. 115R-1
9. MAP NO. 108	18. MAP NO. 116

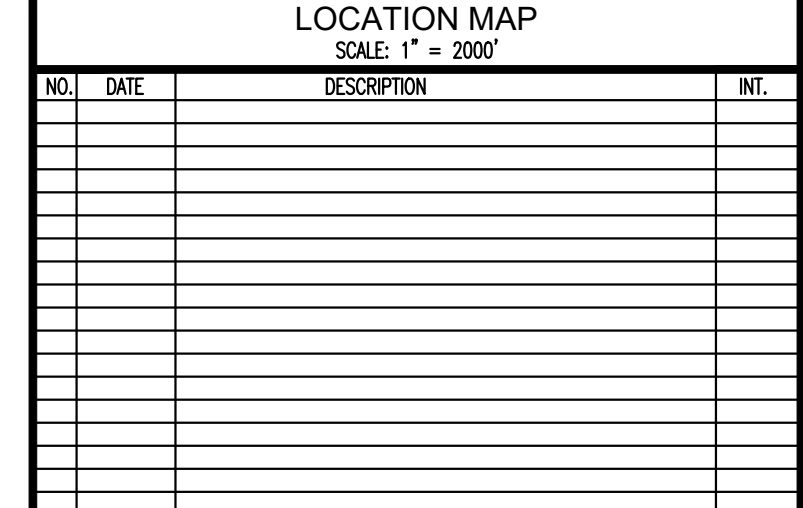
1. MAP ENTITLED "SURVEY FOR THE ESTATE OF DOUGLAS N. HARRIS, LOCATED ON QUALITY HILL ROAD, TOWN OF KIRKWOOD, BROOME COUNTY, NEW YORK," PREPARED BY WILLIAMS & SODAL LAND SURVEYORS, PC, DATED JANUARY 22, 2023. RECORDED IN THE BROOME COUNTY CLERK'S OFFICE ATTACHED TO DEED BOOK: 2716 PAGE: 476.
2. MAP ENTITLED "PLANS FOR IMPROVING WITH FEDERAL AID A PORTION OF THE BINGHAMTON-WINDSOR, PART 2, STATE HIGHWAY NO. 5022 BETWEEN STATION 140+00 AND STATION 142+00 BL IN THE TOWN OF KIRKWOOD" PREPARED BY STATE OF NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF CONSTRUCTION, DATED DECEMBER 6-7, 1961. FILED ON JANUARY 25, 1962 WITH THE STATE OF NEW YORK DEPARTMENT OF PUBLIC WORKS, AS F.A.R.C. 62-1

THE INTENT OF THIS PLAN IS TO REPRESENT THE SUBDIVISION OF ONE NEW LOT SHOWN AS LOT 2 BEING 42.87 ACRES FROM EXISTING BROOME COUNTY TAX MAP NO. 147.00-1-2.11.

A. NORBUT SOLAR FARMS
B. ARM GROUP LLC
C. ROBERT D. AND VERA C. MANN

ROBERT D. & VERNA C. MAIN
LIBER. 2400 PG. 188

1. COPYRIGHT 2023 JHA COMPANIES ALL RIGHTS RESERVED.
2. UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.
3. ONLY BOUNDARY SURVEY MAPS WITH THE SURVEYOR'S SEAL ARE GENUINE TRUE AND CORRECT COPIES OF THE SURVEYOR'S ORIGINAL WORK AND OPINION.
4. CERTIFICATIONS OF THIS BOUNDARY SURVEY MAP SIGNIFY THAT THE MAP WAS PREPARED IN ACCORDANCE WITH THE CURRENT EXISTING CODE OF PRACTICE FOR LAND SURVEYS ADOPTED BY THE NEW YORK STATE ARCHITECTS AND PROFESSIONAL SURVEYORS, INC. THE CERTIFICATION IS LIMITED TO PERSONS FOR WHOM THE BOUNDARY SURVEY MAP IS PREPARED, TO THE TITLE COMPANY, TO THE GOVERNMENT AGENCY, AND TO THE LENDING INSTITUTION LISTED ON THIS BOUNDARY SURVEY MAP.
5. THE CERTIFICATIONS HEREIN ARE NOT TRANSFERABLE.
6. THE LOCATION OF UNDERGROUND IMPROVEMENTS OR ENCROACHMENTS ARE NOT ALWAYS KNOWN AND OFTEN MUST BE ESTIMATED. IF ANY UNDERGROUND IMPROVEMENTS OR ENCROACHMENTS EXIST OR ARE SHOWN, THE IMPROVEMENTS OR ENCROACHMENTS ARE NOT COVERED BY THIS CERTIFICATE.
7. ANY LOCATIONS OF UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE.
8. ROW FOR QUALITY HILL ROAD IS 3 RODS (49.5').
9. FIELD SURVEY COMPLETED JULY 2023.



NEW YORK LAW REQUIRES:
3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE
AND
10 WORKING DAYS IN DESIGN STATE
- STOP CALL
New York One Call System, Inc

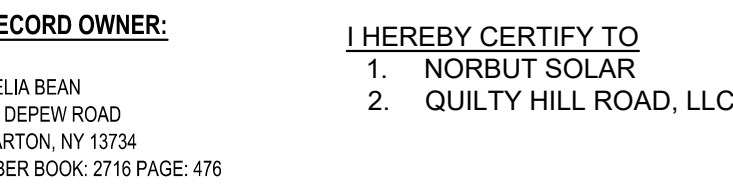


466 SOUTH MAIN STREET
MONTROSE, PA 18801
PA • OH • NY • WV • VA • MD

PROJECT ID:	2023-0642	DRAWN:	BWL
DATE:	2023-11-16	DESIGN:	CTO
SCALE:	AS SHOWN	CHECKED:	CTO

TITLE: SUBDIVISION

PLAN STATUS:	SHEET NO.
PRELIMINARY DRAFT PLAN	1



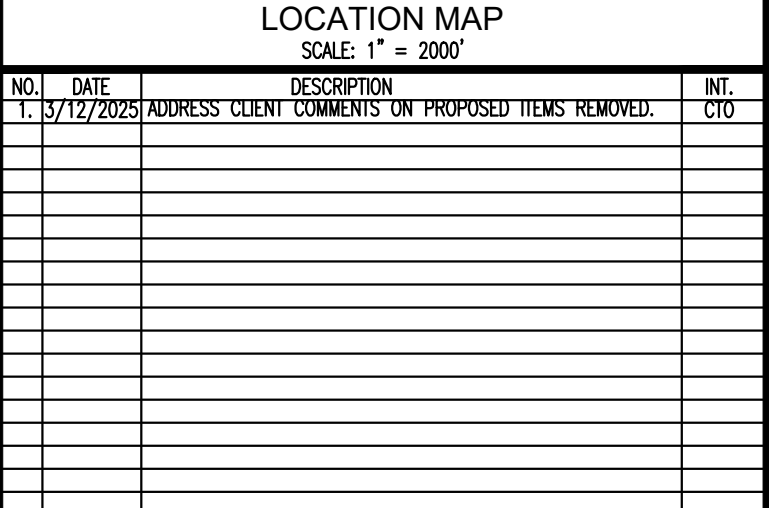
1. MAP ENTITLED "SURVEY FOR BRUCE S. KIBBLER, QUILITY HILL ROAD, TOWN OF KIRKWOOD, BROOME COUNTY, NEW YORK" PREPARED BY RONALD C. SCHIESS, L.S., DATED JULY 1, 1987.
2. MAP ENTITLED "SURVEY FOR BRUCE S. KIBBLER, QUILITY HILL ROAD, TOWN OF KIRKWOOD, BROOME COUNTY, NEW YORK" PREPARED BY RONALD C. SCHIESS, L.S., DATED AUGUST 2, 1988.
3. MAP ENTITLED "SURVEY FOR DERBA A. DEPEW, QUILITY HILL ROAD, TOWN OF KIRKWOOD, BROOME COUNTY, NEW YORK" PREPARED BY RONALD C. SCHIESS, L.S., DATED SEPTEMBER 18, 1990, UPDATED APRIL 12, 1991.
4. MAP ENTITLED "SURVEY FOR DONALD & CHERYL MARSHALL, QUILITY HILL ROAD, TOWN OF KIRKWOOD, BROOME COUNTY, NEW YORK" PREPARED BY SOUTHERN TIER SURVEYING, LLP, DATED NOVEMBER 3, 2004, UPDATED OCTOBER 10, 2005.
5. MAP ENTITLED "SURVEY FOR CHRIS R. & MARGO R. KIBBLER, FOLEY ROAD & QUILITY HILL ROAD, TOWN OF KIRKWOOD, BROOME COUNTY, NEW YORK" PREPARED BY SOUTHERN TIER SURVEYING, LLP, DATED MARCH 23, 2007.
6. MAP ENTITLED "SURVEY FOR THE ESTATE OF DOUGLAS N. HARRIS, LOCATED ON QUILITY HILL ROAD, TOWN OF KIRKWOOD, BROOME COUNTY, NEW YORK" PREPARED BY WILLIAMS & ESSALL LAND SURVEYORS, P.C., DATED JANUARY 25, 2023. RECORDED IN THE BROOME COUNTY CLERK'S OFFICE ATTACHED TO DEED BOOK 176 PAGE 476.
7. MAP ENTITLED "PLANS FOR IMPROVING WITH FEDERAL AID A PORTION OF THE BINGHAMTON-WINDSOR, PART 2, STATE HIGHWAY NO. 3922 BETWEEN STATION 14+00 ON BLAD AND STATION 42+00 IN THE TOWN OF KIRKWOOD, PREPARED BY STATE OF NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF CONSTRUCTION, DATED DECEMBER 6-7, 1981 FILED ON JANUARY 25, 1982 WITH THE STATE OF NEW YORK DEPARTMENT OF PUBLIC WORKS, AS F.R.C. 62-1.

N.Y.S. D.O.T. MAP REFERENCES FOR BOUNDARY OF SH5022:

- | | |
|-------------------|--------------------|
| 1. MAP NO. 101 | 10. MAP NO. 109 |
| 2. MAP NO. 101R-1 | 11. MAP NO. 110 |
| 3. MAP NO. 102 | 12. MAP NO. 111 |
| 4. MAP NO. 103 | 13. MAP NO. 112 |
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| 7. MAP NO. 106 | 16. MAP NO. 115 |
| 8. MAP NO. 107 | 17. MAP NO. 115R-1 |
| 9. MAP NO. 108 | 18. MAP NO. 116 |

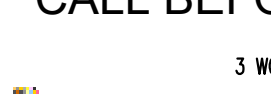
MAP INTENT

THIS PLAN IS INTENDED TO SHOW NORBUT SOLAR FARMS FINAL INTENT ONCE LANDS ARE CONVEYED FROM CELIA BEAN AND A PORTION OF LAND FROM ROBERT D. & VERNA C. MAIN. THIS PLAN REPRESENTS THE COMBINATION OF THREE SEPARATE TAX PARCELS INTO ONE CONTIGUOUS PARCEL BEING 143.63 ACRES.



CALL BEFORE YOU DIG!

NEW YORK LAW REQUIRES:
3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE
AND
10 WORKING DAYS IN DESIGN STATE
— STOP CALL
New York One Call System, Inc.



SEAL

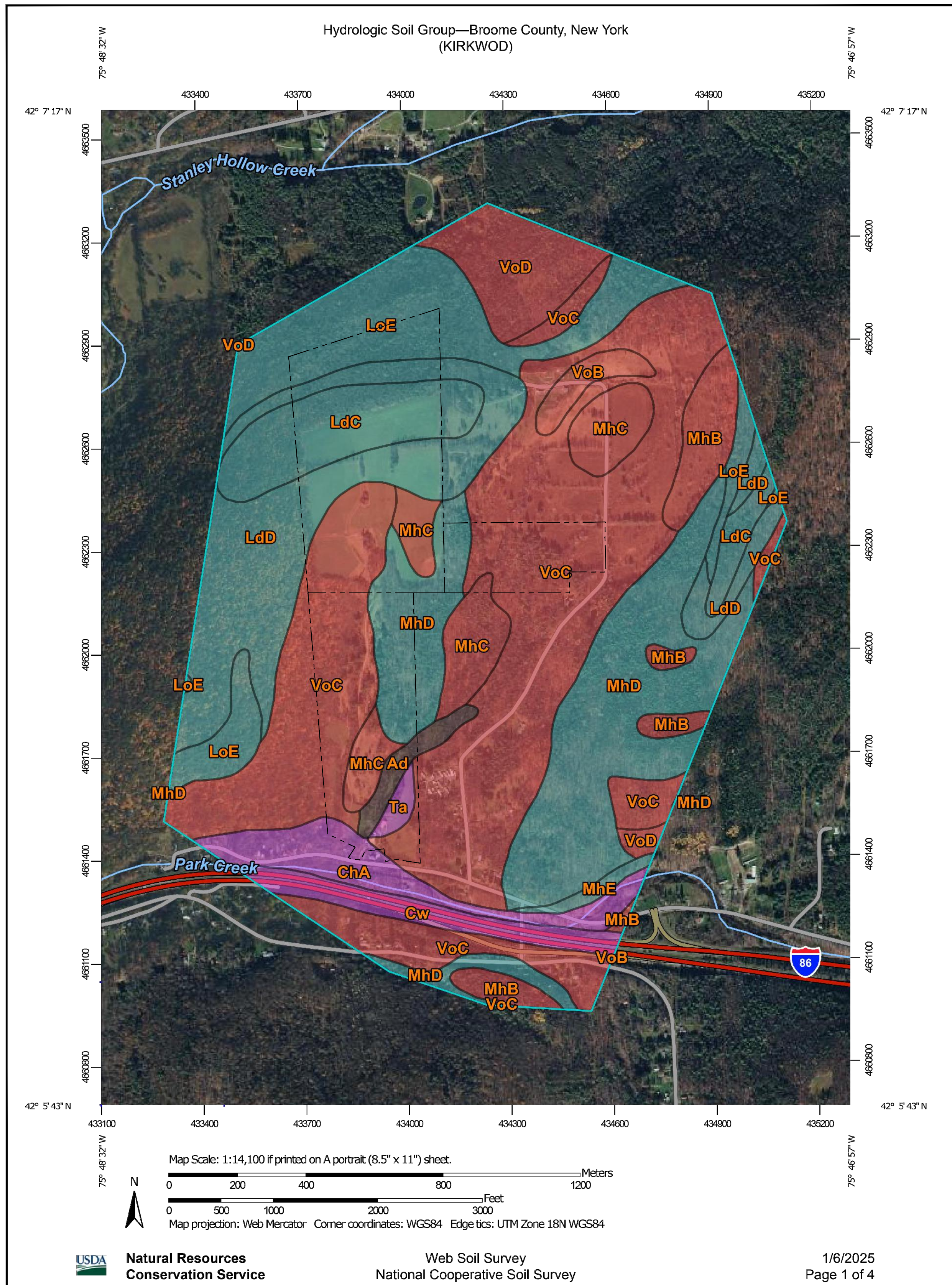


844-542-4757
466 SOUTH MAIN STREET
MONTROSE, PA 18801
MD • NY • OH • PA • VA • WV

PROJECT ID: 2023-0642	DRAWN: BWL
DATE: 2024-06-11	DESIGN: CTO
SCALE: 1"=200'	CHECKED: CTO

COMBINATION OF LANDS
FOR
NORBUT SOLAR FARMS
LOCATED IN
TOWN OF KIRKWOOD
BROOME COUNTY,
NEW YORK

TITLE: PRELIMINARY SKETCH PLAN	
PLAN STATUS: PRELIMINARY PLAN	SHEET NO. 1

[illegible]