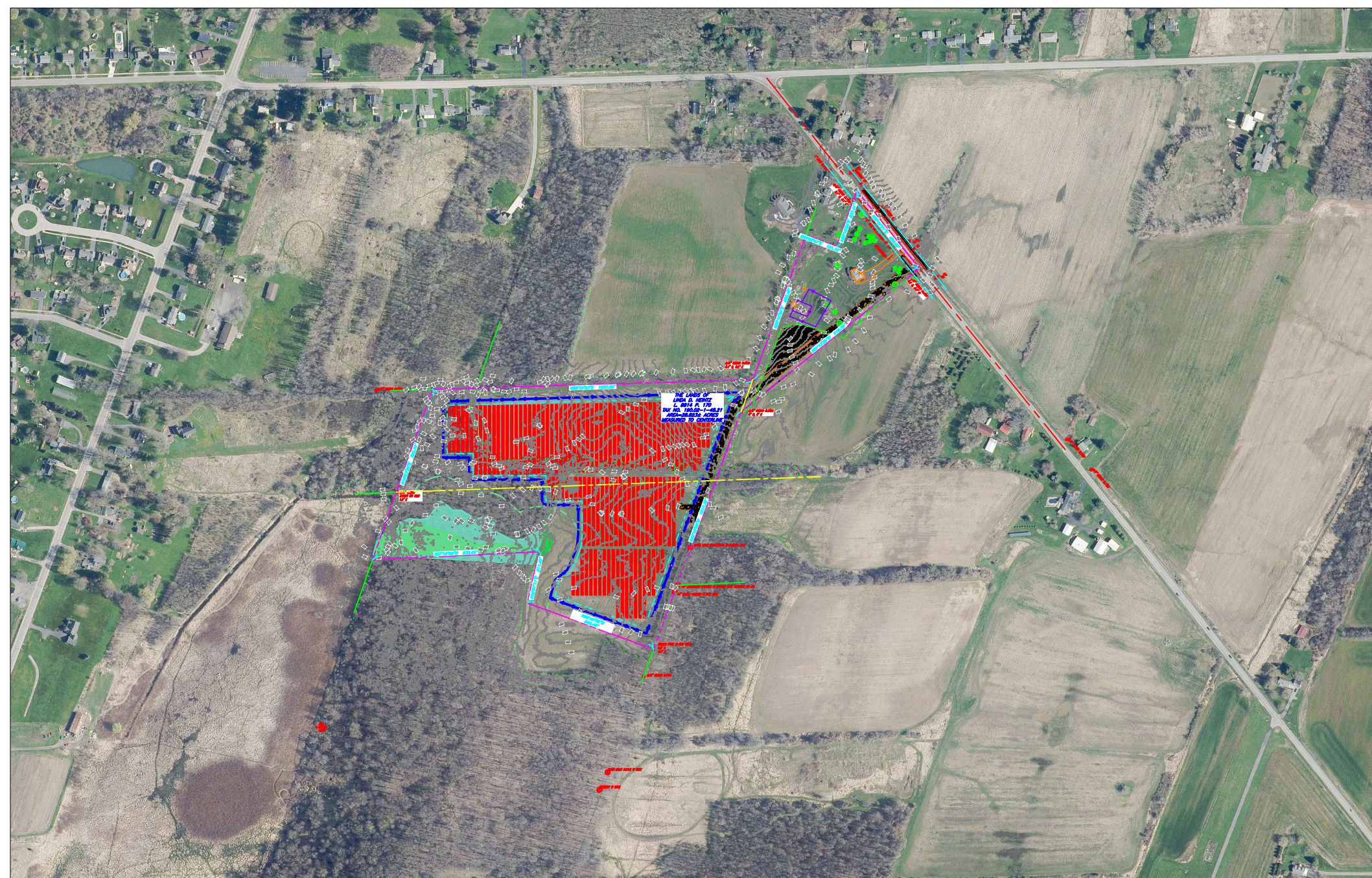


TOBIN ROAD SOLAR

4008.96 KWDC / 3000.00 KWAC PV PLANT

55 TOBIN ROAD, HENRIETTA, NY 14467

SITE MAP



SCALE: 1" = 500'

VICINITY MAP



SCALE: NTS

PROJECT OWNER

HEINTZ
55 TOBIN ROAD, HENRIETTA, NY
14467

EPC

SUSTAINABLE ENERGY DEVELOPMENTS
DBA GREENSPARK SOLAR
318 TIMOTHY LN, ONTARIO, NY 14519

SYSTEM SUMMARY:

TOTAL DC SYSTEM SIZE 4008.96 KWDC
TOTAL AC SYSTEM SIZE 3000.00 KWAC
MOUNTING SINGLE AXIS TRACKER
SYSTEM TILT +/- 52°
SYSTEM AZIMUTH 90° / 270°

PV MODULE HANWHA Q-CELL, Q.PEAK DUO
XL-G11.3/BFG
PV MODULE POWER 580 W
PV MODULE QUANTITY 6912

INVERTER SUNGROW
INVERTER POWER 125 KW
INVERTER QUANTITY 24

DESIGN CRITERIA

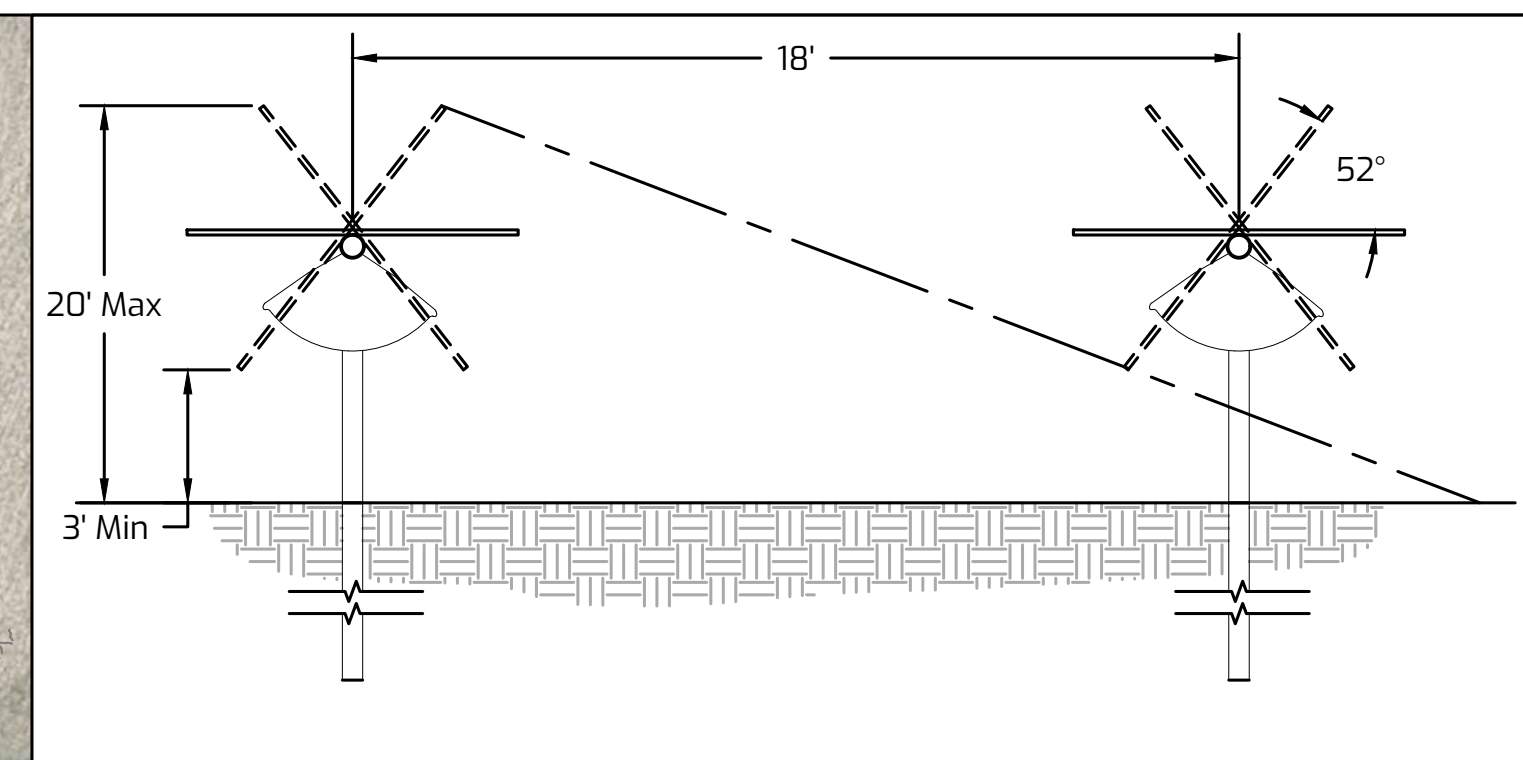
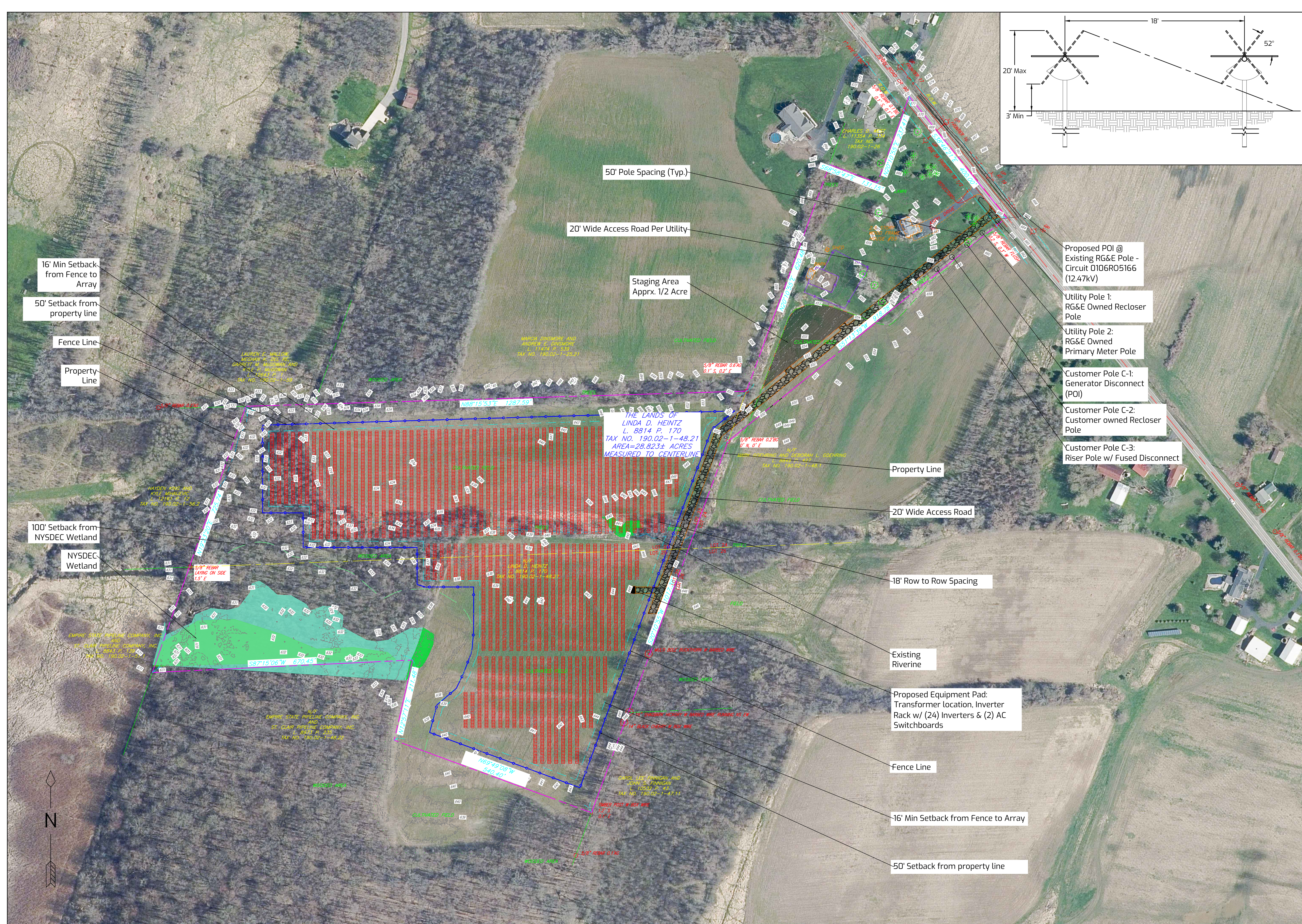
CODE REFERENCE NEC 2017
BUILDING AUTHORITY HENRIETTA
ELECTRICAL UTILITY COMPANY RG&E
WIND LOAD (ASCE 7-16) 105 MPH
GROUND SNOW LOAD (ASCE 7-16) 40 PSF
EXPOSURE CATEGORY B
HIGH TEMP (ASHRAE 2% HIGH) 31°C
LOW TEMP (ASHRAE EXTREME LOW) -20°C

DRAWING INDEX

GENERAL
G000 TITLE SHEET
G100 OVERALL SITE-PLAN

ELECTRICAL
E000 ELECTRICAL NOTES
E100 THREE LINE DIAGRAM
E101 THREE LINE DIAGRAM

7					
6					
5					
4	30% DEVELOPMENT DESIGN REV 1	09/18/23	CRP		
3	30% DEVELOPMENT DESIGN	08/23/23	CRP		
2	POLE LINE UP CHANGE & 3-LINE REVISION	06/29/23	CRP		
1	POLE LINE UP CHANGE	06/19/23	CRP		
REV	DESCRIPTION	DATE	BY		
NOT FOR CONSTRUCTION					
					
PROJECT: TOBIN ROAD SOLAR ADDRESS: 55 TOBIN ROAD, HENRIETTA, NY 14467 SHEET TITLE: TITLE SHEET					
DRAWING NO. G000					



REV	DATE	DESCRIPTION	BY
7			
6			
5			
4	09/18/23	30% DEVELOPMENT DESIGN REV 1	CRP
3	08/29/23	30% DEVELOPMENT DESIGN	CRP
2	06/29/23	POLE LINE UP CHANGE & 3-LINE REVISION	CRP
1	06/19/23	POLE LINE UP CHANGE	CRP

DRAWN BY: CRP
 ISSUE DATE: 09/18/23
 SCALE: T = 100'

NOT FOR CONSTRUCTION



PROJECT: TOBIN ROAD SOLAR
 ADDRESS: 55 TOBIN ROAD, HENRIETTA, NY 14467
 SHEET TITLE: SITE PLAN
 DRAWING NO.:

G100

A. SAFETY NOTES

- A.1 DC VOLTAGE FROM THE PV MODULES IS ALWAYS PRESENT AT THE DC TERMINALS DURING DAYLIGHT HOURS.
- A.2 SUBCONTRACTORS SHALL PERFORM ALL WORK IN A SAFE AND RESPONSIBLE MANNER.
- A.3 LOCK-OUT TAG-OUT PROCEDURES SHALL BE OBSERVED DURING CONSTRUCTION, TESTING AND MAINTENANCE.
- A.4 CONTRACTORS SHALL ADHERE TO ALL RELEVANT FEDERAL, STATE AND LOCAL SAFETY REGULATIONS.
- A.5 ALL CONTRACTORS SHALL TRAIN ON-SITE EMPLOYEES ON THE SITE SAFETY AND ESTABLISHED REPORTING OF NEAR-MISSES AND ACCIDENTS.
- A.6 ALL CONTRACTORS SHALL PROVIDE AND UTILIZE THE CORRECT PERSONAL PROTECTION EQUIPMENT FOR THEIR PERSONNEL.

B. GENERAL NOTES

- B.1 THE GENERAL NOTES APPLY TO ALL DRAWINGS UNDER THE CONTRACT. REFER TO INDIVIDUAL DRAWINGS FOR ADDITIONAL NOTES
- B.2 ALL WORK SHALL BE INSTALLED IN A NEAT AND PROFESSIONAL MANNER.
- B.3 ALL EQUIPMENT USED IS TO BE APPROVED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) AND LABELLED FOR ITS INTENDED PURPOSE.
- B.4 ALL OUTDOOR ENCLOSURES ARE TO BE NEMA 3R RATED OR BETTER.
- B.5 TORQUE ALL MECHANICAL CONNECTIONS TO EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
- B.6 METAL SHAVINGS RESULTING FROM SITE WORK MUST BE CLEANED FROM ENCLOSURES.
- B.7 ROOF PENETRATIONS SHALL BE COMPLETED AND SEALED PER MANUFACTURER'S SPECIFICATION AND ANY APPLICABLE CODE.
- B.8 IF OBSTRUCTIONS OR EQUIPMENT IS NOT WHERE DRAWINGS INDICATE, CONTACT THE DESIGNER BEFORE MAKING ADJUSTMENTS.
- B.9 ELECTRICAL INSTALLATION METHODS SHALL BE APPROVED BY THE ENGINEER AND/OR OWNER'S REPRESENTATIVE, USING A 'GOLDEN ROW' PROCESS OF VERIFICATION ON-SITE.

C. GROUNDING

- C.1 ALL METAL NON-CURRENT CARRYING PARTS MUST BE ELECTRICALLY BONDED TO THE GROUNDING SYSTEM PER NEC.
- C.2 SELF TAPPING SCREWS THAT ARE THREAD-CUTTING, SUCH AS SHEET METAL SCREWS, CANNOT BE USED FOR BONDING EQUIPMENT TO GROUND, PER NEC 250.8.
- C.3 GROUND LUGS MUST BE RATED FOR THE GIVEN CONDITIONS, BE IT OUTDOORS OR UNDERGROUND.
- C.4 ALL GROUNDING ELECTRODE CONDUCTORS SHALL BE INSTALLED IN A CONTINUOUS LENGTH EXCEPT WHERE SPLICED BY AN IRREVERSIBLE MECHANICAL CONNECTOR OR EXOTHERMIC WELD.
- C.5 GROUNDING JUMPERS MUST BE INSTALLED BETWEEN EACH ARRAY ROW AND MODULE-TO-MODULE UNLESS OTHERWISE NOTED IN MANUFACTURER SPECIFICATIONS.

D. WIRING AND WIRING METHODS:

- D.1 ALL WIRING METHODS AND INSTALLATION PRACTICES MUST CONFORM TO THE RELEVANT NEC, LOCAL AND STATE CODES.
- D.2 MODULE LEAD CONNECTORS MUST BE INSTALLED SUCH THAT THEY ARE PROTECTED FROM EXPOSURE TO DIRECT SUNLIGHT OR RAIN. THEY MUST NOT BE INSTALLED AT MODULE GAPS OR IN DIRECT CONTACT WITH THE MODULE BACKSHEET.
- D.3 PV CONNECTORS SHALL MATCH IN BRAND MAKE AND MODEL TO THE MODULE MANUFACTURER. CROSS MATING OF DIFFERENT BRANDS WILL NOT BE ALLOWED.
- D.4 MODULE WIRING SHALL BE LOCATED AND SECURED UNDER THE ARRAY USING SUITABLE WIRING CLIPS.
- D.5 PROTECT WIRE FROM SHARP EDGES WITH UV RATED SPIRAL WRAP, EDGE-GUARD OR SPLIT LOOM.
- D.6 ALL FREE AIR CABLES, SUCH AS PV MODULE LEADS, MUST BE SECURED WITHIN 12" OF CONNECTION POINTS AND EVERY 24" THEREAFTER.
- D.7 ZIP TIES ARE INTENDED FOR ORGANIZING AND BUNDLING WIRES, NOT AS PERMANENT SUPPORT. SUN-BUNDLERS OR APPROVED ALTERNATIVES CAN BE USED TO SUPPORT AND SECURE CONDUCTORS.
- D.8 PV WIRES SHOULD BE LABELED ON BOTH ENDS OF THE CONDUCTORS WITH SPECIFIC INVERTER AND STRING NUMBERS. USE SHRINK WRAPPING OR OTHER APPROVED METHODS.
- D.9 WIRE COLOR SPECS
BLACK (-) AND RED (+) FOR DC WIRES
BROWN, ORANGE, YELLOW FOR 3-PHASE 480V AND 600V
BLACK, RED, BLUE FOR 3-PHASE 208V
- D.10 WIRE SPLICING IS TO BE AVOIDED WHEREVER POSSIBLE. IF SPLICING IS NECESSARY, IT SHALL BE MADE IN AN ENCLOSURE, OR LOCATION APPROVED BY THE ENGINEER.
- D.11 TORQUE ALL ELECTRICAL TERMINATIONS PER MANUFACTURER'S SPECIFICATIONS, AND MARK THE POINT INDICATING THE FINAL TORQUED LOCATION.
- D.12 USE OF ALUMINUM CONDUCTORS IS ONLY ALLOWED AT TERMINALS ALLOWING AL CONNECTIONS, OR TO BE MADE WITH OTHER APPROVED METHODS.
- D.13 ALL AL CONNECTIONS MUST USE OXIDE-INHIBITING GREASE, OR DE-OX.
- D.14 ALL LUGS PROCURED MUST BE DUAL RATED FOR AL/CU.
- D.15 ALL CRIMPS ARE TO BE PERFORMED PER MANUFACTURER'S INSTRUCTIONS. ALL CRIMPING TOOLS ARE TO BE APPROVED BY THE ENGINEER, AND PHOTO DOCUMENTATION OF THE CORRECT CRIMPING METHOD PROVIDED.
- D.16 FOR USE WITH BIFACIAL MODULES: MODULE LEAD AND SOURCE CIRCUIT WIRING WILL BE MANAGED SO AS TO REDUCE SHADING TO THE BACK-SIDE OF MODULES.

E. CIVIL CONSTRUCTION

- E.1 ALL BACKFILLING IS TO BE DONE WITH MAXIMUM 6" LIFTS OR ACCORDING TO THE CIVIL ENGINEER'S SITE SPECIFIC DIRECTIVES.
- E.2 THE USE OF NATIVE MATERIALS FOR BACKFILL IS ALLOWED IF FOUND TO BE SUITABLE FOR COMPACTION AND FREE OF ROCKS, ORGANIC MATERIAL, AND DEBRIS.
- E.3 RETURN TRENCHES, RUTS AND OTHER SOIL DISTURBANCES TO A STABILIZED CONDITION AND SIMILAR TO ORIGINAL STATE.

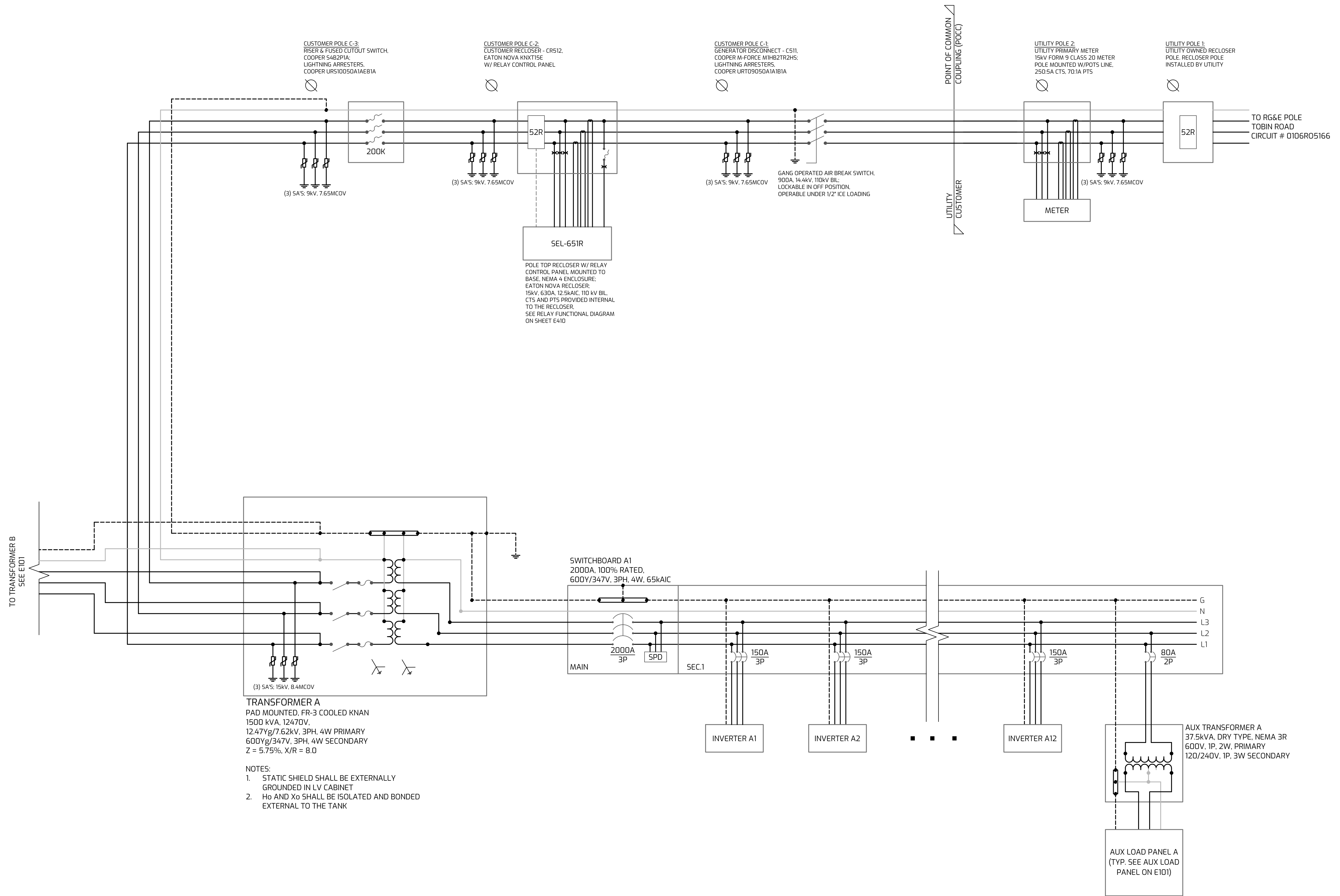
F. CONDUITS AND RACEWAYS

- F.1 CONDUIT EXPANSION JOINTS ARE NEEDED FOR ALL ABOVE-GROUND CONDUITS AS PER NEC 300.7. CONDUIT EXPANSION JOINTS ARE NEEDED WHERE ROOF EXPANSION JOINTS ARE LOCATED.
- F.2 CONDUITS LEAVING THE GROUND AND INTO AN ENCLOSURE REQUIRE EXPANSION JOINTS FOR FROST HEAVE.
- F.3 ALL ABOVE GROUND PVC CONDUIT MUST BE SCHEDULE 80. ALL BELOW GROUND PVC CONDUIT PASSING UNDER ROADWAYS AND PARKING AREAS MUST BE SCHEDULE 80. OTHERWISE, SCHEDULE 40 IS ALLOWED.
- F.4 CONDUIT STUB-UPS MUST USE RMC OR A PVC SLEEVE TO PROTECT CONDUIT FROM DAMAGE.
- F.5 CONDUITS ARE TO BE APPROPRIATELY SEALED WHEN ENTERING A BUILDING AS PER NEC 300.7.
- F.6 FOR ALL CONDUITS ENTERING ENCLOSURE BOTTOMS, USE SEALING LOCK-NUTS LISTED AS WEATHERPROOF. FOR ALL CONDUITS ENTERING ENCLOSURE SIDES, USE MYERS-TYPE HUBS AND INSTALL AT THE LOWERS PRACTICAL LOCATION ON THE ENCLOSURE.
- F.7 ALL CONDUIT ENTERING INVERTERS AND DC COMBINERS SHALL BE SEALED WITH UL LISTED EXPANDING FOAM, POLYWATER SEAL, OR APPROVED ALTERNATIVE. PUTTY DUCT SEALANT IS NOT ACCEPTABLE.
- F.8 CONDUITS LONGER THAN 200' WITH NEGATIVE SLOPE TOWARD ELECTRICAL EQUIPMENT MUST HAVE A PULL-BOX OR VAULT ADJACENT TO THE ENTRY POINT OF THE EQUIPMENT TO ALLOW FOR POTENTIAL WATER EGRESS.
- F.9 HAND-HOLES, PULL BOXES, OR CONDUIT BODIES SHALL BE INSTALLED WHEN THE RACEWAY HAS MORE THAN 360 DEGREES OF BENDS, OR AS NECESSARY NOT TO EXCEED MANUFACTURER'S MAXIMUM CABLE PULLING TENSION, WHETHER OR NOT SHOWN ON DRAWINGS.
- F.10 ALL EMT MUST USE LISTED AND APPROVED RAIN TIGHT FITTINGS WHEN INSTALLED OUTDOORS OR IN WET LOCATIONS.
- F.11 WHEN TRANSITIONING FROM FREE AIR TO CONDUIT, UTILIZE CORD GRIPS TO SEAL OFF THE CONDUIT END.
- F.12 ALL CONDUIT SIZES PROVIDED ARE MINIMUM AS REQUIRED BY RELEVANT ELECTRIC CODES. CONTRACTORS MAY UPSIZE CONDUITS AS NEEDED FOR EASIER WIRE PULLING. IF APPROVED BY THE ENGINEER.

G. TESTING

- G.1 POLARITY TESTING MUST BE PERFORMED AT ALL PV SOURCE CIRCUITS AND PV OUTPUT CIRCUITS.
- G.2 OPEN CIRCUIT VOLTAGE TESTING MUST BE PERFORMED AT ALL PV SOURCE CIRCUITS TO ENSURE MODULES AND CONNECTIONS ARE EFFECTIVE.
- G.3 INSULATION RESISTANCE TESTING MUST BE PERFORMED ON ALL DC AND AC LOW VOLTAGE CIRCUITS.
- G.4 HI-POT TESTING MUST BE PERFORMED ON ALL MEDIUM VOLTAGE CIRCUITS.
- G.5 NON-CURRENT CARRYING METAL PARTS MUST BE CHECKED FOR CONNECTION TO GROUND.
- G.6 GROUND RESISTANCE TESTING TO BE PERFORMED PER NEC AND NOT TO EXCEED 25 OHMS.
- G.7 ALL TESTING MUST BE RECORDED AND RESULTS REVIEWED BY THE ENGINEER.
- G.8 ALL TESTING TO BE PERFORMED PER COMMISSIONING TEST EXHIBIT K PROVIDED BY THE OWNER.

			CRP	CRP	CRP	CRP	BY
			09/18/23	09/18/23	09/18/23	06/19/23	DATE
			30% DEVELOPMENT DESIGN REV 1	30% DEVELOPMENT DESIGN	POLE LINE UP CHANGE 6-3-JUNE REVISION		DESCRIPTION
7	6	5	4	3	2	1	REV
DRAWN BY: CRP			ISSUE DATE: 09/18/23	SCALE: NONE			
NOT FOR CONSTRUCTION							
							
PROJECT: TOBIN ROAD SOLAR		ADDRESS: 55 TOBIN ROAD, HENRIETTA, NY 14467					
DRAWING NO. E000		SHEET TITLE: ELECTRICAL NOTES					



TRANSFORMER A
 PAD MOUNTED, FR-3 COOLED KNAN
 1500 kVA, 12470V,
 12.47Yg/7.62kV, 3PH, 4W PRIMARY
 600Yg/347V, 3PH, 4W SECONDARY
 Z = 5.75%, X/R = 8.0

- NOTES:**
1. STATIC SHIELD SHALL BE EXTERNALLY GROUNDED IN LV CABINET
 2. Ho AND Xo SHALL BE ISOLATED AND BONDED EXTERNAL TO THE TANK

SYSTEM SUMMARY:
 (6912) HANWHA Q-CELL, Q.PEAK DUO XL-G11.3/BFG, 580W MODULES; 4008.96 KWDC TOTAL
 (24) SUNGROW INVERTERS; 3000.00 KWAC TOTAL

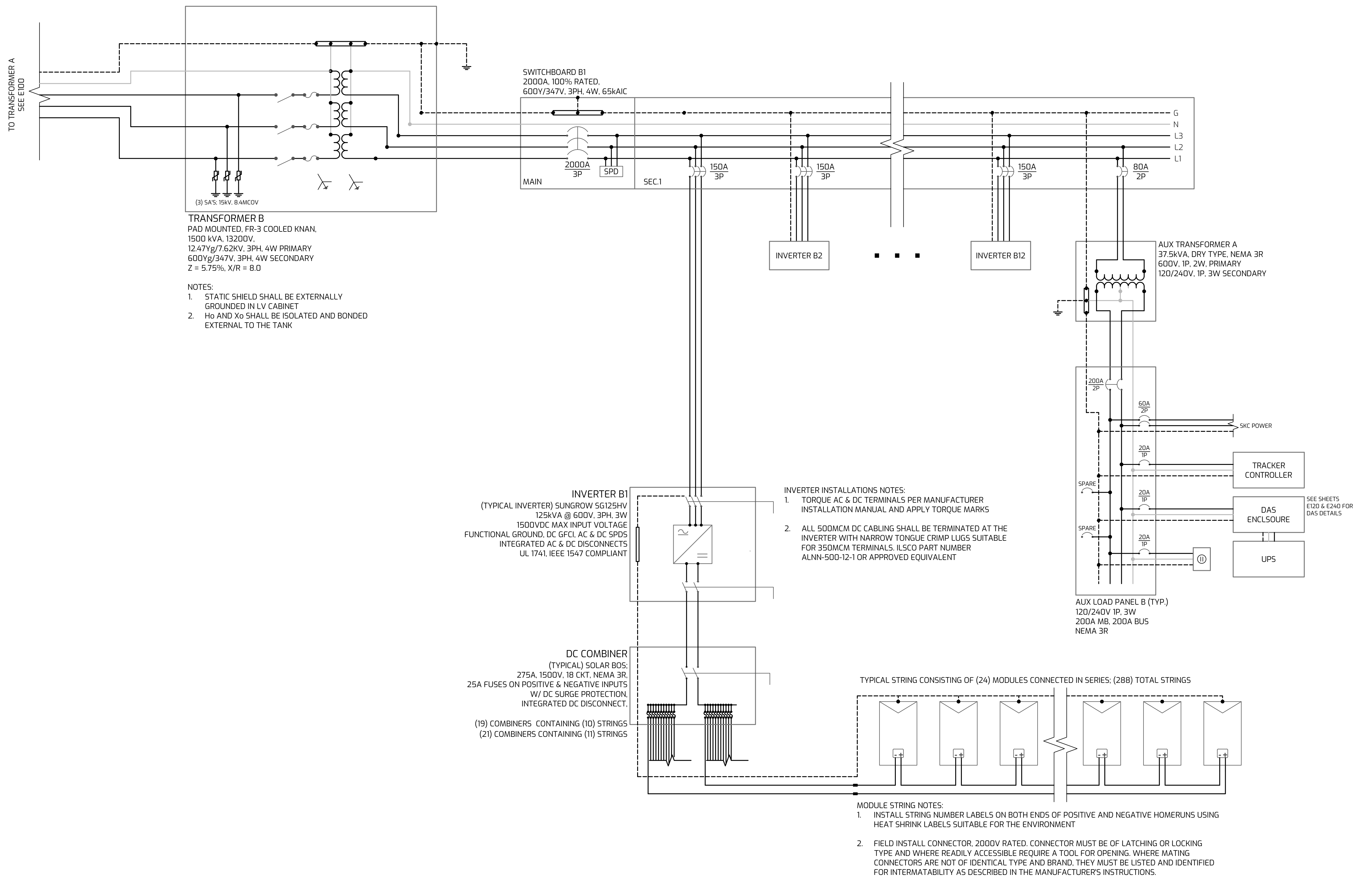
7	REV				
6	REV				
5	REV				
4	30% DEVELOPMENT DESIGN REV 1	09/18/23	CRP	09/18/23	CRP
3	30% DEVELOPMENT DESIGN	08/23/23	CRP	08/23/23	CRP
2	POLE LINE UP CHANGE 3-4 LINE REVISION	06/29/23	CRP	06/29/23	CRP
1	POLE LINE UP CHANGE	06/17/23	CRP	06/17/23	CRP
	DESCRIPTION			DATE	BY

NOT FOR CONSTRUCTION



PROJECT: TOBIN ROAD SOLAR
ADDRESS: 55 TOBIN ROAD, HENRIETTA, NY 14467
SHEET TITLE: 3 LINE DIAGRAM

DRAWING NO. E100



TRANSFORMER B
PAD MOUNTED, FR-3 COOLED KNAN,
1500 kVA, 13200V,
12.47Vg/7.62kV, 3PH, 4W PRIMARY
600Yg/347V, 3PH, 4W SECONDARY
Z = 5.75%, X/R = 8.0

- NOTES:
1. STATIC SHIELD SHALL BE EXTERNALLY
GROUNDED IN LV CABINET
2. Ho AND Xo SHALL BE ISOLATED AND BONDED
EXTERNAL TO THE TANK

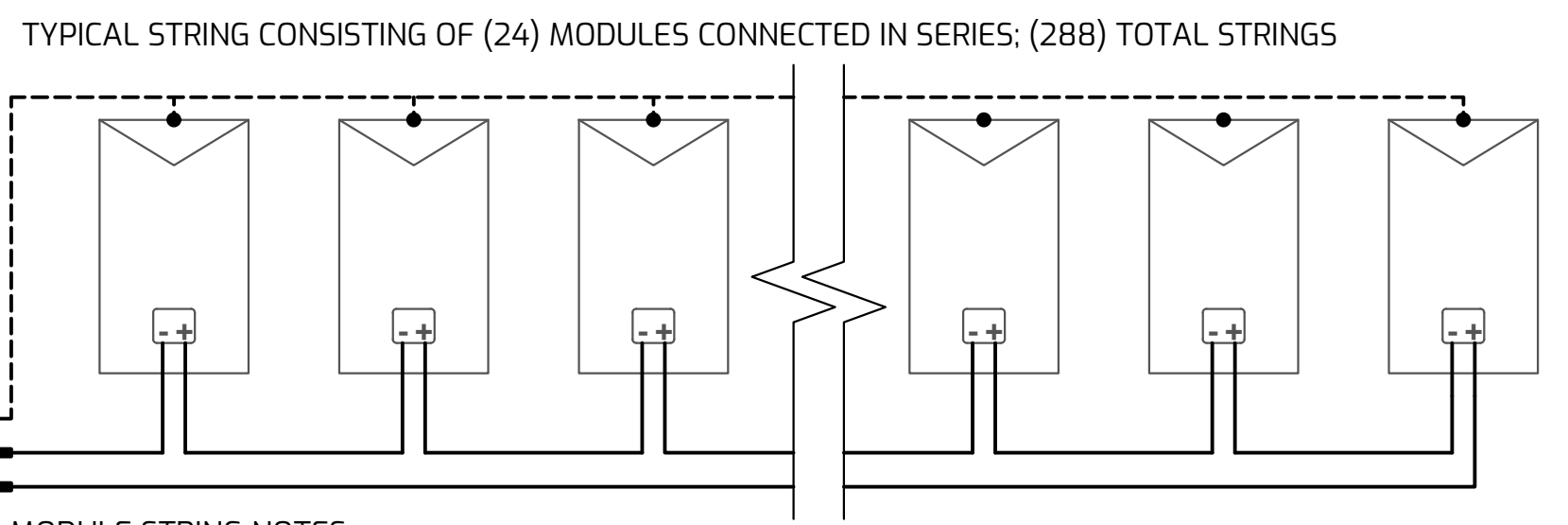
INVERTER B1
(TYPICAL INVERTER) SUNGROW SG125HV
125kVA @ 600V, 3PH, 3W
1500VDC MAX INPUT VOLTAGE
FUNCTIONAL GROUND, DC GFCI, AC & DC SPD5
INTEGRATED AC & DC DISCONNECTS
UL 1741, IEEE 1547 COMPLIANT

- INVERTER INSTALLATIONS NOTES:
1. TORQUE AC & DC TERMINALS PER MANUFACTURER
INSTALLATION MANUAL AND APPLY TORQUE MARKS
2. ALL 500MCM DC CABLING SHALL BE TERMINATED AT THE
INVERTER WITH NARROW TONGUE CRIMP LUGS SUITABLE
FOR 350MCM TERMINALS. ILSCO PART NUMBER
ALNN-500-12-1 OR APPROVED EQUIVALENT

DC COMBINER
(TYPICAL) SOLAR BOS:
275A, 1500V, 18 CKT, NEMA 3R,
25A FUSES ON POSITIVE & NEGATIVE INPUTS
W/ DC SURGE PROTECTION,
INTEGRATED DC DISCONNECT.

(19) COMBINERS CONTAINING (10) STRINGS
(21) COMBINERS CONTAINING (11) STRINGS

AUX LOAD PANEL B (TYP.)
120/240V 1P, 3W
200A MB, 200A BUS
NEMA 3R



- MODULE STRING NOTES:
1. INSTALL STRING NUMBER LABELS ON BOTH ENDS OF POSITIVE AND NEGATIVE HOMERUNS USING
HEAT SHRINK LABELS SUITABLE FOR THE ENVIRONMENT
2. FIELD INSTALL CONNECTOR, 2000V RATED. CONNECTOR MUST BE OF LATCHING OR LOCKING
TYPE AND WHERE READILY ACCESSIBLE REQUIRE A TOOL FOR OPENING. WHERE MATING
CONNECTORS ARE NOT OF IDENTICAL TYPE AND BRAND, THEY MUST BE LISTED AND IDENTIFIED
FOR INTERMABILITY AS DESCRIBED IN THE MANUFACTURER'S INSTRUCTIONS.

SYSTEM SUMMARY:
(6912) HANWHA Q-CELL, Q.PEAK DUO XL-G11.3/BFG, 580W MODULES; 4008.960 KWDC
TOTAL
(24) SUNGROW INVERTERS; 3.000 KWAC TOTAL

NO.	REV	DESCRIPTION	DATE	BY
7				
6				
5				
4		30% DEVELOPMENT DESIGN REV 1	09/19/23	CRP
3		30% DEVELOPMENT DESIGN	08/23/23	CRP
2		POLE LINE UP CHANGE 5 3-LINE REVISION	06/29/23	CRP
1		POLE LINE UP CHANGE	06/19/23	CRP

DRAWN BY:
CRP
ISSUE DATE:
09/18/23
SCALE:
NONE

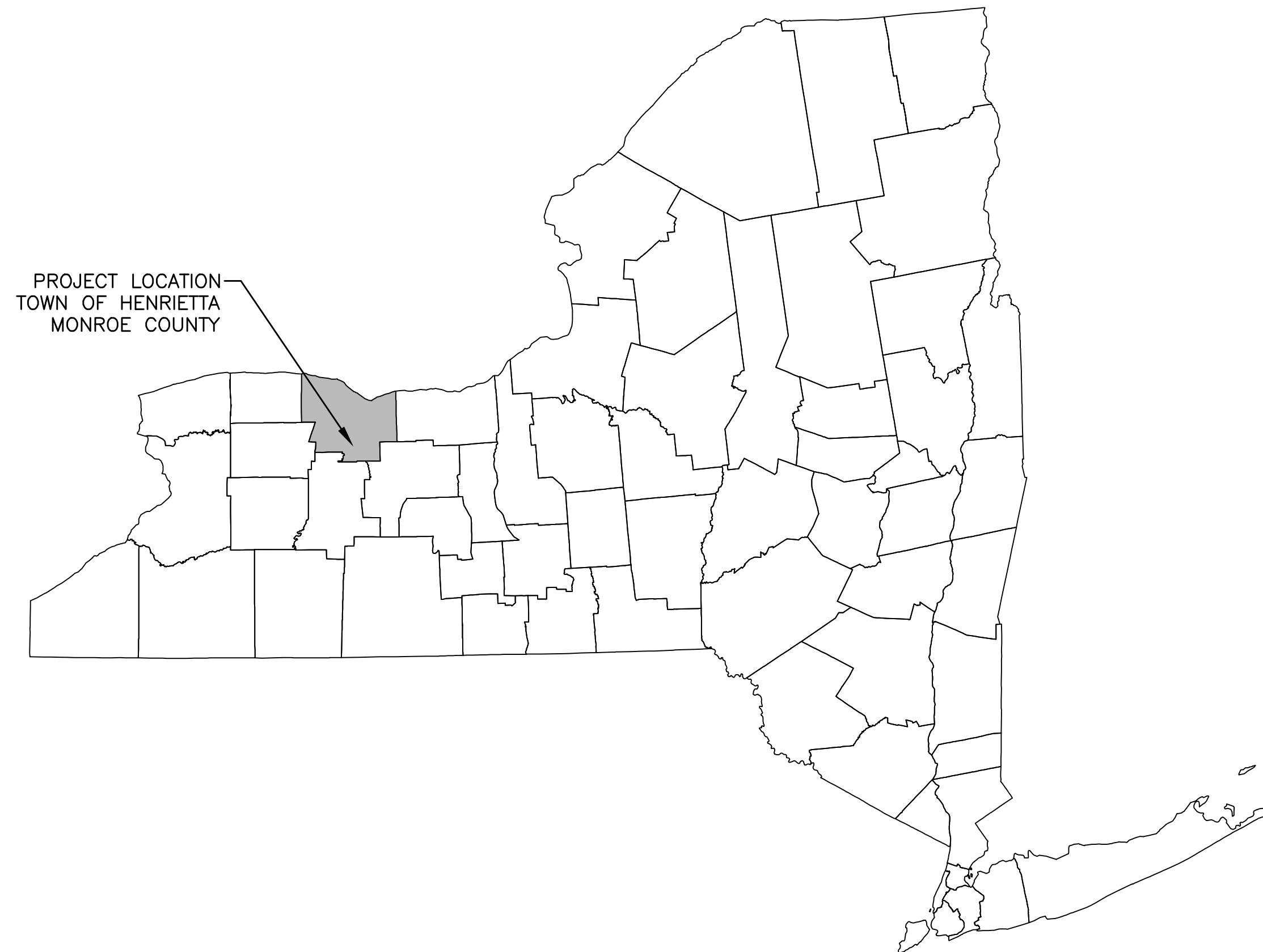
**NOT FOR
CONSTRUCTION**



PROJECT: TOBIN ROAD SOLAR	ADDRESS: 55 TOBIN ROAD, HENRIETTA, NY 14467
SHEET TITLE #####	

DRAWING NO.
E101

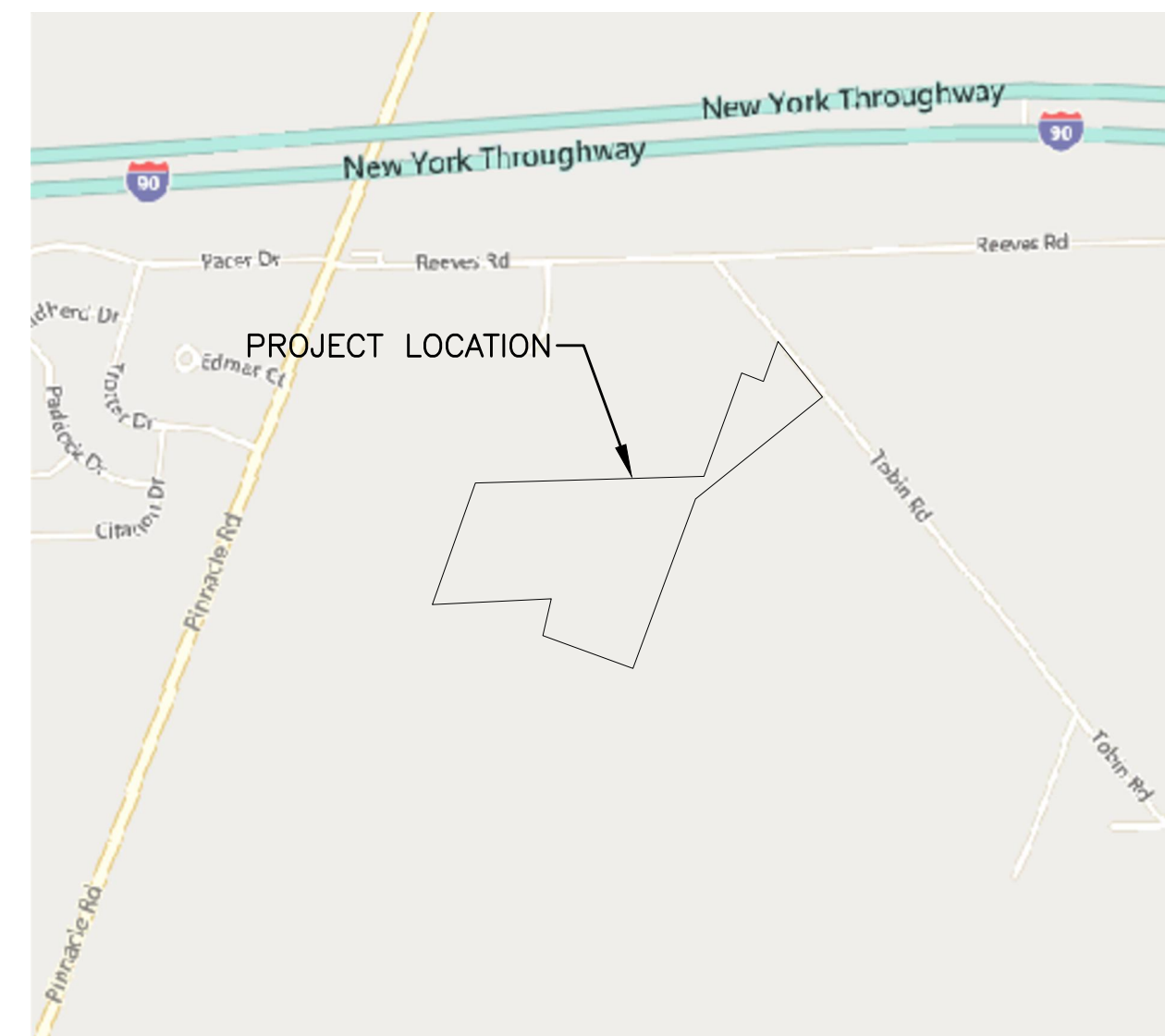
TOBIN HENRIETTA SOLAR PRELIMINARY SITE PLAN



NEW YORK STATE MAP
N.T.S.

55 TOBIN ROAD
TOWN OF HENRIETTA
MONROE COUNTY, NY 14467

PROJECT No. 230529.03



LOCATION MAP
N.T.S.

INDEX OF DRAWINGS:		
DRAWING NO.	SHEET NO.	DESCRIPTION
C-001	1 OF 17	COVER SHEET
C-002	2 OF 17	GENERAL NOTES
C-100	3 OF 17	EXISTING CONDITIONS PLAN
C-101	4 OF 17	TREE CLEARING PLAN
C-200	5 OF 17	OVERALL SITE PLAN
C-201	6 OF 17	CIVIL SITE PLAN INDEX
C-202	7 OF 17	CIVIL SITE PLAN-1
C-203	8 OF 17	CIVIL SITE PLAN-2
C-300	9 OF 17	GRADING PLAN
C-301	10 OF 17	ACCESS ROAD PLAN AND PROFILE
C-302	11 OF 17	EQUIPMENT PAD GRADING PLAN
C-400	12 OF 17	EROSION CONTROL PLAN
C-500	13 OF 17	SITE REVEGETATION PLAN
C-700	15 OF 17	DETAILS
C-705	16 OF 17	DETAILS
C-710	17 OF 17	DETAILS
C-715	18 OF 17	DETAILS

PROJECT SITE INFORMATION	
SITE ADDRESS	55 TOBIN ROAD
COUNTY PARCEL NUMBER	190.02-1-48.21
UTILITY NAME	RG&E
DEVELOPER NAME	TOBIN HENRIETTA SOLAR LLC
DEVELOPER ADDRESS	318 TIMOTHY LN, ONTARIO, NY 14519
CIVIL ENGINEER OF RECORD (EOR) NAME	STEVE MELLOTT, P.E., CFM
CIVIL EOR ADDRESS	180 CHARLOTTE ST. ROCHESTER, NY
CIVIL EOR CONTACT INFORMATION	585-334-1310
APPLICABLE BUILDING PERMIT AUTHORITY	TOWN OF HENRIETTA

CIVIL SITE BASIS AND QUANTITY ESTIMATES			
PROJECT ZONING	RURAL RESIDENTIAL		
PROPERTY AREA (ACRES)	57.355		
APPROXIMATE LEASE AREA (ACRES)	14.591		
	REQUIRED	DESIGNED	
FRONT SETBACK (FT)	100	100 FROM A PUBLIC ROAD	
REAR SETBACK (FT)	50	50	
SIDE SETBACK (FT)	50	50	
PANEL HEIGHT (FT)	20'-MAX	8'-11 1/2"	
FENCE HEIGHT (FT)	7		
CHAIN-LINK FENCE (LF)	2,700		
ROAD WIDTH (FT)	20		
ROAD AREA (SF)	29,984		

SYSTEM SUMMARY	
SYSTEM AC SIZE (MW)	3000.00 KWAC
SYSTEM DC SIZE (DC)	4008.96 KWDC
MOUNTING	SINGLE-AXIS TRACKER
SYSTEM TILT	+52°/-52°
MODULE TYPE	HANWHA Q.CELL, Q.PEAK DUO
	XL-G113./BFG
MODULE COUNT	4992
INVERTER TYPE	SUNGROW SG125KW
INVERTER COUNT	24

PREPARED BY:



WWW.FISHERASSOC.COM

NOTE:

AS AN INTEGRAL PART OF THIS APPROVAL THE PLANNING BOARD EXPRESSLY APPROVES THE COLOR, TEXTURES, AND FINISH OF THE BUILDING AS DEPICTED ON SITE ELEVATION OR OTHER DOCUMENTS SUBMITTED WITH THIS APPLICATION. ANY PROPOSED CHANGE IN COLOR, TEXTURE, OF FINISH OF THE BUILDING, FROM THAT APPROVED BY THE PLANNING BOARD SHALL REQUIRE A RE-APPLICATION FOR REVIEW AND APPROVAL OF THE PLANNING BOARD.

FILE NAME: H:\Projects\23\230529-03-GSSP\23_Heintz\Eng\CAD\CUT\230529-03 C-001 Cover sheet.dwg
DATE/TIME: 10/5/2023 10:56:41 AM
USER: Steven Heintz

PROJECT NO. 230529-03	PROJECT MANAGER S. MELLOTT	DRAWN BY J. TORRES	SCALE AS SHOWN	ISSUE DATE 10/5/2023						
PROJECT: TOBIN HENRIETTA SOLAR TOWN OF HENRIETTA MONROE, NEW YORK TITLE OF DRAWING: COVER SHEET										
DRAWING NO. C-001										
SHEET 1 OF 17										
7	6	5	4	3	2	1	REV	DESCRIPTION	DATE	BY

NEW YORK STATE AG & MARKETS GUIDELINES FOR SOLAR ENERGY PROJECTS (REV. 10/18/2019)

CONSTRUCTION REQUIREMENTS

- BEFORE ANY TOPSOIL IS STRIPPED, REPRESENTATIVE SOIL SAMPLES SHOULD BE OBTAINED FROM THE AREAS TO BE DISTURBED...
STRIPPED TOPSOIL SHOULD BE STOCKPILED FROM WORK AREAS (E.G. PARKING AREAS, ELECTRIC CONDUCTOR TRENCHES, ALONG ACCESS ROADS, EQUIPMENT PADS) AND KEPT SEPARATE FROM OTHER EXCAVATED MATERIAL...
SURFACE OF ACCESS ROADS LOCATED OUTSIDE OF THE GENERATION FACILITY'S SECURITY FENCE AND CONSTRUCTED THROUGH AGRICULTURAL FIELDS SHALL BE LEVEL WITH THE ADJACENT FIELD SURFACE...
INSTALL CULVERTS AND/OR WATERBARS TO MAINTAIN OR IMPROVE SITE SPECIFIC NATURAL DRAINAGE PATTERNS...
DO NOT ALLOW VEHICLES OR EQUIPMENT OUTSIDE THE PLANNED LOD WITHOUT THE EM SEEKING PRIOR APPROVAL FROM THE LANDOWNER...
PROPOSED PERMANENT ACCESS SHOULD BE ESTABLISHED AS SOON AS POSSIBLE BY REMOVING TOPSOIL ACCORDING TO THE DEPTH OF TOPSOIL AS DIRECTED BY THE EM...
WHEN OPEN-CUT TRENCHING IS PROPOSED, TOPSOIL STRIPPING IS REQUIRED FROM THE WORK AREA ADJACENT TO THE TRENCH...
ELECTRIC COLLECTION, COMMUNICATION AND TRANSMISSION LINES INSTALLED ABOVE GROUND CAN CREATE LONG TERM INTERFERENCE WITH MECHANIZED FARMING ON AGRICULTURAL LAND...
ALL BURIED UTILITIES LOCATED WITHIN THE GENERATION FACILITY'S SECURITY FENCE MUST HAVE A MINIMUM DEPTH OF 18-INCHES OF COVER...
THE FOLLOWING REQUIREMENTS APPLY TO ALL BURIED UTILITIES LOCATED OUTSIDE OF THE GENERATION FACILITY SECURITY FENCE:
IN CROPLAND, HAYLAND, AND IMPROVED PASTURE BURIED ELECTRIC CONDUCTORS MUST HAVE A MINIMUM DEPTH OF 48-INCHES OF COVER...
WHERE ELECTRICAL CONDUCTORS ARE BURIED DIRECTLY BELOW THE GENERATION FACILITY'S ACCESS ROAD OR IMMEDIATELY ADJACENT (AT ROAD EDGE) TO THE ACCESS ROAD...
WHEN BURIED UTILITIES ALTER THE NATURAL STRATIFICATION OF SOIL HORIZONS AND NATURAL SOIL DRAINAGE PATTERNS...

POST-CONSTRUCTION RESTORATION REQUIREMENTS APPLICABLE TO CONTINUED USE AGRICULTURAL AREAS THAT SUFFERED GROUND DISTURBANCE DUE TO CONSTRUCTION ACTIVITIES (TYPICALLY LANDS OUTSIDE OF THE DEVELOPED PROJECT'S SECURITY FENCE)

- ALL CONSTRUCTION DEBRIS IN ACTIVE AGRICULTURE AREAS INCLUDING PIECES OF WIRE, BOLTS, AND OTHER UNUSED METAL OBJECTS WILL NEED TO BE REMOVED AND PROPERLY DISPOSED OF AS SOON AS PRACTICAL TO PREVENT MIXING WITH ANY TOPSOIL...
EXCESS CONCRETE WILL NOT BE BURIED OR LEFT ON THE SURFACE IN ACTIVE AGRICULTURAL AREAS. CONCRETE TRUCKS WILL BE WASHED OUTSIDE OF ACTIVE AGRICULTURAL AREAS. REMOVE ALL EXCESS SUBSOIL AND ROCK UNNEARTHED FROM CONSTRUCTION RELATED ACTIVITIES OCCURRING IN AREAS INTENDED TO RETURN TO AGRICULTURAL USE...

- EXCESS STRIPPED TOPSOIL SHALL NOT BE UTILIZED FOR FILL WITHIN THE PROJECT AREA. ANY EXTRA TOPSOIL REMOVED FROM PERMANENTLY IMPACTED AREAS (E.G. ROADS, EQUIPMENT PADS, ETC.) SHOULD BE EVENLY SPREAD IN ADJACENT AGRICULTURAL PROJECT AREAS...
REGRADE ALL ACCESS ROADS OUTSIDE OF THE SECURITY FENCING (AS DETERMINED NECESSARY BY THE EM) TO ALLOW FOR FARM EQUIPMENT CROSSING AND RESTORE ORIGINAL SURFACE DRAINAGE PATTERNS...
REPAIR ALL SURFACE OR SUBSURFACE DRAINAGE STRUCTURES DAMAGED DURING CONSTRUCTION AS CLOSE TO PRECONSTRUCTION CONDITIONS AS POSSIBLE...
ON AGRICULTURAL LAND NEEDING RESTORATION BECAUSE OF GROUND DISTURBANCE, POSTPONE ANY RESTORATION PRACTICES UNTIL FAVORABLE (WORKABLE, RELATIVELY DRY) TOPSOIL/SUBSOIL CONDITIONS EXIST...
IN ALL CONTINUED USE AGRICULTURAL LAND WHERE THE TOPSOIL WAS STRIPPED, SUBSOIL DECOMPACTION SHALL BE CONDUCTED PRIOR TO TOPSOIL REPLACEMENT...
SEED ALL AGRICULTURAL AREAS FROM WHICH THE VEGETATION WAS REMOVED OR DESTROYED WITH THE SEED MIX SPECIFIED BY THE LANDOWNER/AGRICULTURE PRODUCER...
SOIL AMENDMENTS SHOULD BE APPLIED AS NECESSARY SO THAT RESTORED AGRICULTURAL AREAS' SOIL PROPERTIES, AT A MINIMUM, REASONABLY REFLECT THE PRE-CONSTRUCTION SOIL TEST RESULTS...
MONITORING AND REMEDIATION
PROJECT COMPANIES SHALL PROVIDE A MONITORING AND REMEDIATION PERIOD OF ONE COMPLETE GROWING SEASON FOLLOWING THE DATE UPON WHICH THE DESIRED CROP IS PLANTED...
ON SITE MONITORING SHALL BE CONDUCTED SEASONALLY AT LEAST THREE TIMES DURING THE GROWING SEASON (SPRING, SUMMER, FALL)...
TOPSOIL THICKNESS AND TRENCH SETTLING - THE EM OBSERVATIONS MAY REQUIRE SMALL HAND DUG HOLES TO OBSERVE THE PERCENTAGE OF SETTLED TOPSOIL...
EXCESSIVE ROCK (>4-INCHES) - DETERMINED BY A VISUAL INSPECTION OF DISTURBED AREAS AS COMPARED TO UNAFFECTED PORTIONS...
SOIL COMPACTION - PROJECT AFFECTED AGRICULTURAL SOILS SHOULD BE TESTED USING AN APPROPRIATE SOIL PENETROMETER OR OTHER SOIL COMPACTION MEASURING DEVICE...
DRAINAGE - THE EM SHALL VISUALLY INSPECT THE RESTORED AGRICULTURAL AREAS IN SEARCH OF PERSISTENT STUNTED CROP GROWTH...
AGRICULTURE FENCING AND GATES - THE EM SHALL INSPECT PROJECT ASSOCIATED FENCING AND GATES (INSTALLED, ALTERED OR REPAIRED) WITHIN THE PROJECT'S LOD...

STORM WATER POLLUTION PREVENTION PLAN NOTES:

- REFER TO THE STORMWATER POLLUTION PREVENTION PLAN PREPARED FOR THE PROJECT FOR MORE INFORMATION...
THE CONTRACTOR SHALL PROVIDE A QUALIFIED INSPECTOR TO INSPECT THE PROJECT AT THE END OF EACH WORK WEEK AND PROVIDE A REPORT AT LEAST ONCE PER WEEK...
ALL INLETS TO THE STORM SEWER SHALL HAVE INLET PROTECTION. ADD INLET PROTECTION ON INLET NEXT TO ROAD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE BEST MANAGEMENT PRACTICES (BMP'S) UNTIL GROUND COVER IS ESTABLISHED...
REMOVE AND STOCKPILE TOPSOIL IN ACCORDANCE WITH THE NEW YORK STATE AG & MARKETS GUIDELINES FOR SOLAR ENERGY PROJECTS (REV. 10/18/2019)...
IF THE SEASONS PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE "STANDARDS", NETTING OR LIQUID MULCH BINDER...
CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS. EROSION CONTROL MEASURES SHALL NOT BE REMOVED BEFORE 80% UNIFORM VEGETATION HAS BEEN ACHIEVED...
ALL EROSION CONTROL MEASURES ARE TO BE REPLACED WHENEVER THEY BECOME CLOGGED OR INOPERABLE AND SHALL BE REPLACED WHEN THEY HAVE REACHED THE DESIGN LIFE INDICATED IN THE NYS GUIDELINES FOR URBAN EROSION SEDIMENT CONTROL DESIGN MANUAL OR EVERY THREE MONTHS...
CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF TOPSOIL TO ALL DISTURBED AREAS...
CONTRACTOR SHALL DESIGNATE A MEMBER OF HIS/HER FIRM TO BE RESPONSIBLE TO MONITOR EROSION CONTROL, EROSION CONTROL STRUCTURES THROUGHOUT CONSTRUCTION...
ALL DISTURBED AREAS SHALL BE FINISH GRADED TO PROMOTE VEGETATION ON ALL EXPOSED AREAS AS SOON AS PRACTICABLE...
EROSION CONTROL MEASURES SHOULD BE RELOCATED INWARD AS PERMETER SLOPE CONSTRUCTION PROGRESSES AND RECONSTRUCTED TO THE NYS STANDARDS & SPECIFICATIONS AT THE END OF EACH DAY...
PERIMETER AREAS SHALL BE TEMPORARILY STABILIZED WITH SEED AND MULCH PROGRESSIVELY A MINIMUM AT THE END OF EACH WEEK...
SLOPE TRACKING SHALL BE IMPLEMENTED ON ALL SLOPE 1 ON 3 OR GREATER AT THE END OF EACH WORK DAY AND PRIOR TO FINAL SLOPE GRADING AND STABILIZATION...

SITE STABILIZATION:

- WHEN FINAL GRADE IS ACHIEVED DURING NON-GERMINATING MONTHS, THE AREA SHOULD BE MULCHED UNTIL THE BEGINNING OF THE NEXT PLANTING SEASON...
MULCHES SHOULD BE APPLIED AT THE RATES SHOWN IN THE MULCH APPLICATION RATES TABLE...
STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKIFIED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDLOWN...
TOPSOIL SHOULD NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION...
WHEN USED AS A MULCH REPLACEMENT, THE APPLICATION RATE (THICKNESS) OF THE COMPOST SHOULD BE 1/2" TO 3/4"...
POLYMERIC AND GUM TACKIFIERS MIXED AND APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS...
SYNTHETIC BINDERS, OR CHEMICAL BINDERS, MAY BE USED AS RECOMMENDED BY THE MANUFACTURER...
MULCH ON SLOPES OF 8% OR STEEPER SHOULD BE HELD IN PLACE WITH NETTING...
SHREDDED PAPER HYDROMULCH SHOULD NOT BE USED ON SLOPES STEEPER THAN 5%...
LIME, FERTILIZER, SEED, AND MULCH DISTURBED AREAS PER THE EROSION AND SEDIMENT CONTROL PLANS...
NO CONSTRUCTION TRAFFIC SHALL OCCUR TO REMOVE ANY Bmps UNTIL THE FINAL STABILIZATION HAS ACHIEVED 80% PERENNIAL VEGETATIVE COVER...

SEQUENCE OF CONSTRUCTION:

- PRE-CONSTRUCTION MEETING HELD TO INCLUDE PROJECT MANAGER, OPERATOR'S ENGINEER, CONTRACTOR, TOWN M54 REPRESENTATIVE, AND SUB-CONTRACTORS PRIOR TO LAND DISTURBING ACTIVITIES...
INSTALL PERIMETER SILT FENCE...
BEGIN CLEARING AND GRUBBING OPERATIONS...
STRIP TOPSOIL AND STOCKPILE IN A LOCATION ACCEPTABLE TO CONSTRUCTION MANAGER...
COMMENCE EARTHWORK CUT AND FILLS...
AS ROADWAY AND ACCESS DRIVES ARE BROUGHT TO GRADE...
STABILIZE ALL AREAS AS SOON AS PRACTICABLE...
INSTALL UTILITIES...
STABILIZE ALL AREAS IDELE IN EXCESS OF 7 DAYS...
REMOVE TEMPORARY CONSTRUCTION EXITS AND PERIMETER SILT FENCE...
REMOVE SILT FENCE WITHIN WETLANDS DURING CONSTRUCTION...

GENERAL NOTES:

- THE EXISTING UNDERGROUND STRUCTURES AND UTILITIES SHOWN ON THIS MAP HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORD MAPS...
HIGHWAY DRAINAGE ALONG ALL ROADS AND PRIVATE DRIVES SHALL BE KEPT CLEAN OF MUD, DEBRIS ETC...
CONTRACTOR SHALL CONSULT THE OWNER OR THEIR REPRESENTATIVE BEFORE DEVIATING FROM THESE PLANS...
IN ALL TRENCH EXCAVATIONS, CONTRACTOR MUST LAY THE TRENCH SIDE SLOPES BACK TO A SAFE SLOPE...
IF SUSPICIOUS AND/OR HAZARDOUS MATERIAL IS ENCOUNTERED DURING DEMOLITION/CONSTRUCTION...
EXCAVATED WASTE MATERIAL REMOVED FROM THE SITE SHALL BE PLACED AT A LOCATION ACCEPTABLE TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION...
AREAS DISTURBED OR DAMAGED AS PART OF THIS PROJECTS CONSTRUCTION THAT ARE OUTSIDE OF THE PRIMARY WORK AREA...
TREES MAY BE CLEARED WITHIN THE FLOODPLAIN OR WETLAND AREAS AS LONG AS THE STUMPS ARE NOT CLEARED OR GRUBBED...

WASTE/HAZARDOUS MATERIAL PRACTICES:

- WHENEVER POSSIBLE COVERED TRASH CONTAINERS SHOULD BE USED...
DAILY SITE CLEANUP IS REQUIRED TO REDUCE DEBRIS AND POLLUTANTS IN THE ENVIRONMENT...
CONTRACTOR SHALL PROVIDE A SAFE STORAGE SPACE FOR ALL PAINTS, STAINS AND SOLVENTS INSIDE A COVERED STORAGE AREA...
ALL FUELS, OILS AND GREASE MUST BE KEPT IN CONTAINERS AT ALL TIMES...

EROSION & SEDIMENT CONTROL NOTES:

- INSTALL EROSION CONTROL MEASURES AS INDICATED ON THE PLAN PRIOR TO THE START OF ANY EXCAVATION WORK...
REFER TO STORM WATER POLLUTION PLAN NOTES FOR EROSION CONTROL MEASURE NOTES...

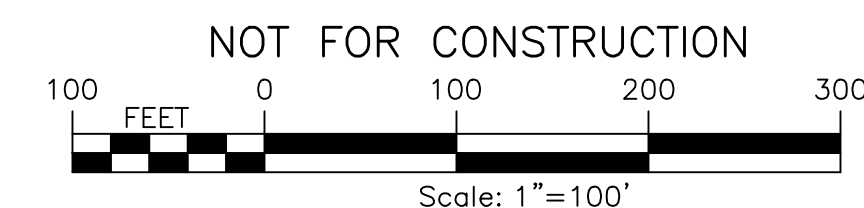
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 USER: Steven Heintz



LEGEND

- PROJECT BOUNDARY
- PROPERTY SETBACK
- ADJACENT PROPERTY LINE
- INTERIOR LOT LINE
- RIGHT-OF-WAY
- EXISTING TREE LINE
- EXISTING FENCE
- EXISTING GRAVEL ROAD
- EXISTING UTILITY POLE
- DELINEATED WETLANDS
- WETLAND BUFFER

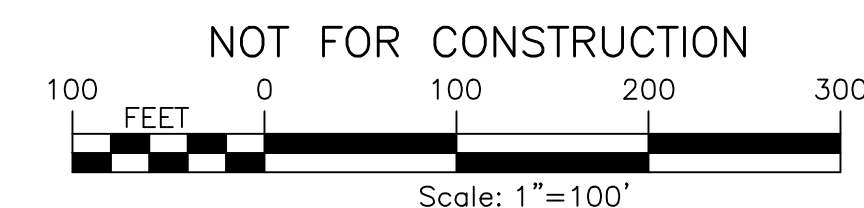
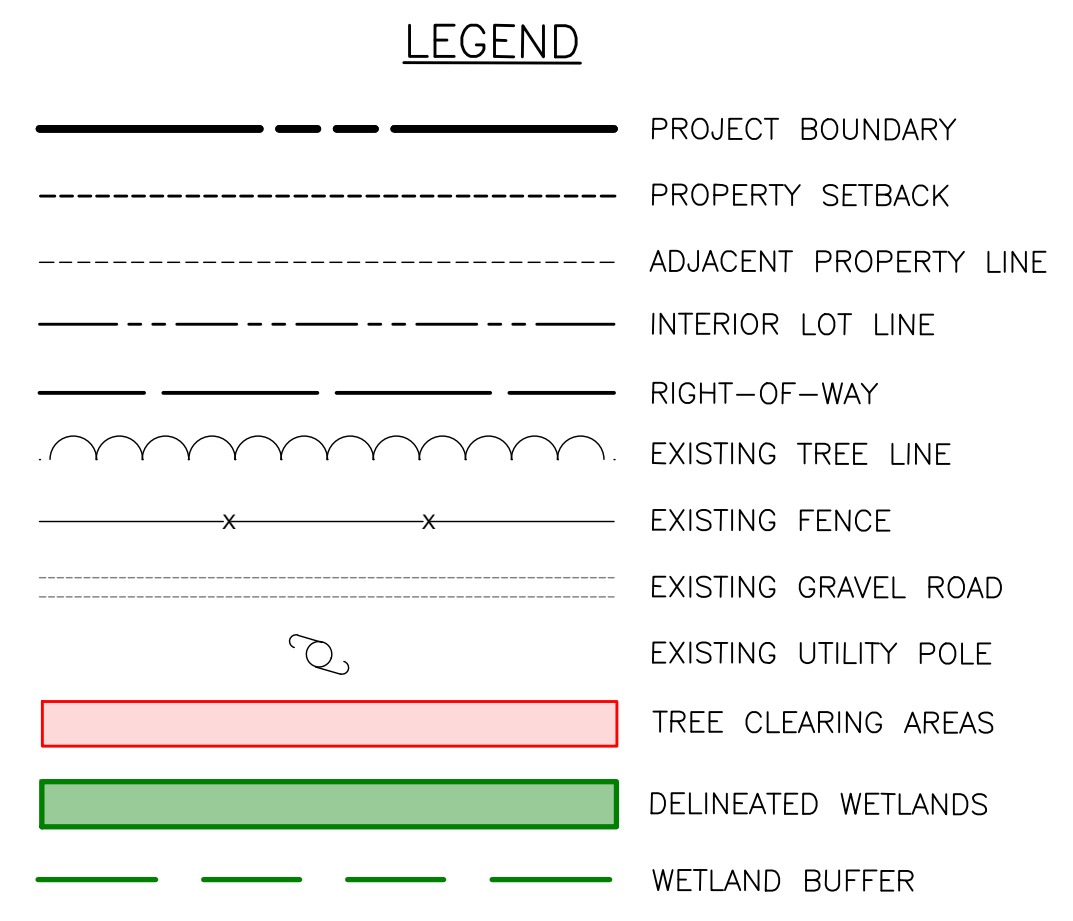


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TITLE OF DRAWING EXISTING CONDITIONS PLAN		PROJECT NO. 230529-03		PROJECT MANAGER S. MELLOTT	
DRAWN BY J. TORRES		SCALE AS SHOWN		ISSUE DATE 10/5/2023	
DESIGNER'S ASSOCIATES FISHER ASSOCIATES P.E. L.S. D.P.C. <small>New York State Education Law Section 1605(3) requires that the design professional responsible for the design of any project, other than the design of a building, be a duly licensed professional engineer or surveyor. If an item bearing the seal of an engineer or a duly licensed architect, engineer or a duly licensed interior designer, or a duly licensed landscape architect, or a duly licensed professional engineer or surveyor is shown on the drawing, the professional seal and the signature of the professional seal holder are required.</small>		REV		DESCRIPTION DATE BY	
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6					
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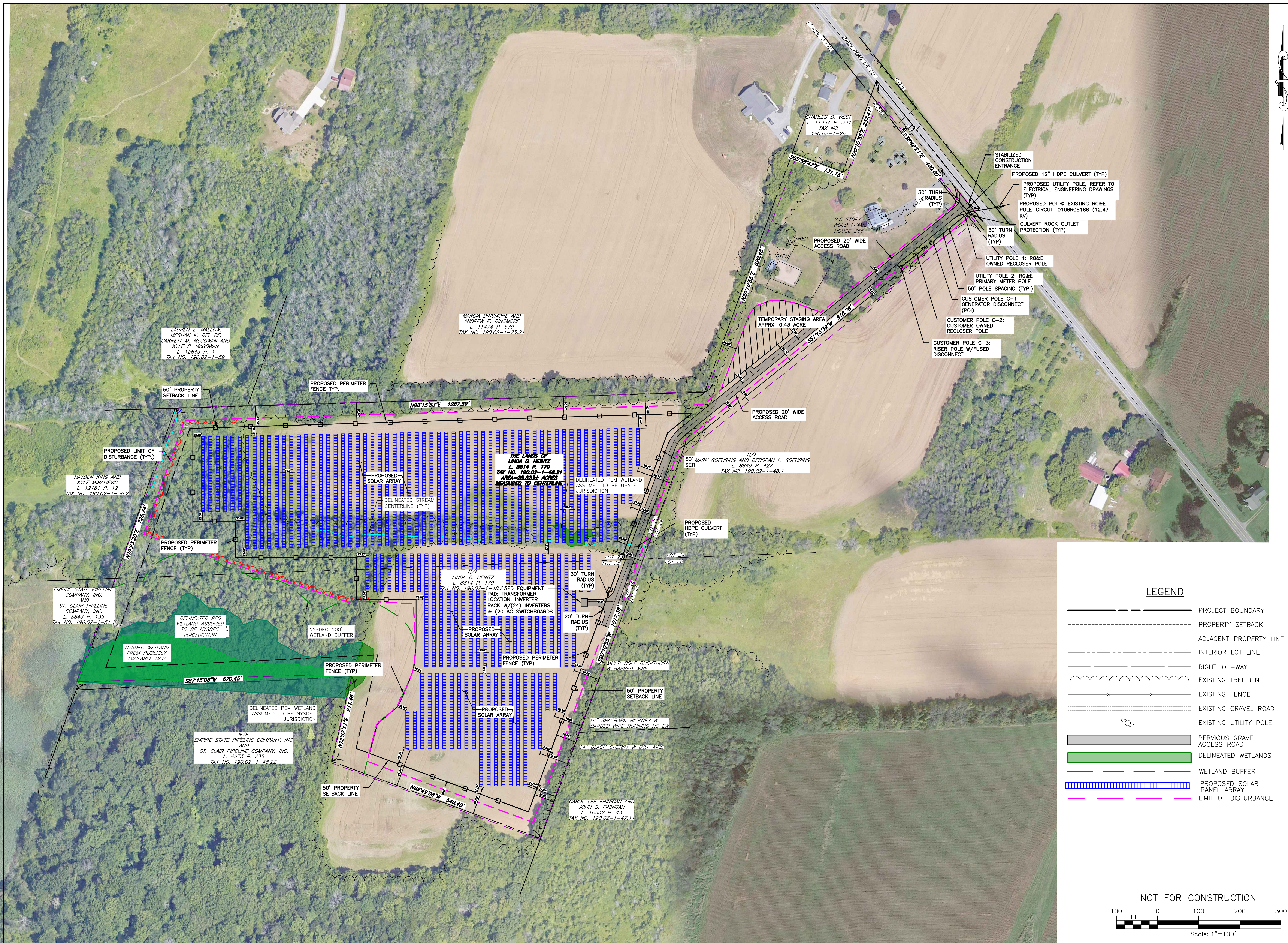


NOTE:
 TREE CLEARING & GRUBBING
 AREA = 2.50 ACRES



PROJECT TOBIN HENRIETTA SOLAR TOWN OF HENRIETTA MONROE, NEW YORK		DRAWING NO. C-101	
TITLE OF DRAWING TREE CLEARING PLAN		SHEET 04 OF 17	
PROJECT MANAGER S. MELLOTT		ISSUE DATE 10/5/2023	
DRAWN BY J. TORRES		AS SHOWN	
FA PROJECT NO. 230529-03		REV	
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DATE		DESCRIPTION	
DATE		BY	

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FA PROJECT NO. 230529-03
 PROJECT MANAGER S. MELLOTT
 DRAWN BY J. TORRES
 SCALE AS SHOWN
 ISSUE DATE 10/5/2023

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PROJECT: TOBIN HENRIETTA SOLAR TOWN OF HENRIETTA MONROE, NEW YORK
 TITLE OF DRAWING: OVERALL SITE PLAN

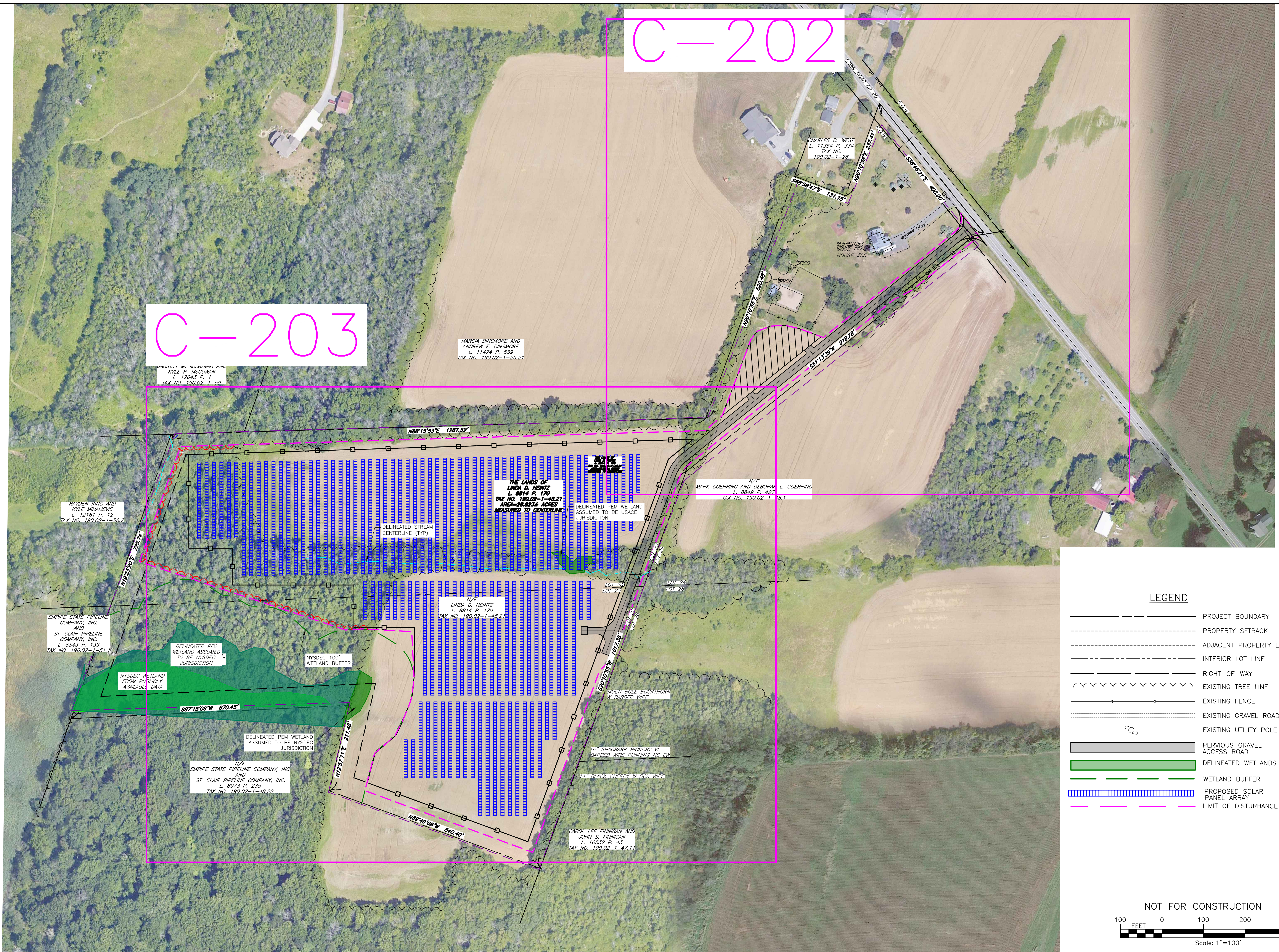
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 SHEET 5 OF 17

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- PROPERTY SETBACK
- ADJACENT PROPERTY LINE
- INTERIOR LOT LINE
- RIGHT-OF-WAY LINE
- EXISTING TREE LINE
- EXISTING FENCE
- EXISTING GRAVEL ROAD
- EXISTING UTILITY POLE
- PERVIOUS GRAVEL ACCESS ROAD
- DELINEATED WETLANDS
- WETLAND BUFFER
- PROPOSED SOLAR PANEL ARRAY
- LIMIT OF DISTURBANCE

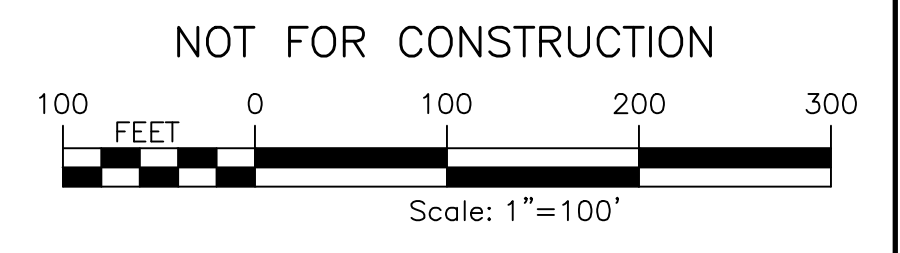
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- PROJECT BOUNDARY
- PROPERTY SETBACK
- ADJACENT PROPERTY LINE
- INTERIOR LOT LINE
- RIGHT-OF-WAY
- EXISTING TREE LINE
- EXISTING FENCE
- EXISTING GRAVEL ROAD
- EXISTING UTILITY POLE
- PERVIOUS GRAVEL ACCESS ROAD
- DELINEATED WETLANDS
- WETLAND BUFFER
- PROPOSED SOLAR PANEL ARRAY
- LIMIT OF DISTURBANCE



	PROJECT: TOBIN HENRIETTA SOLAR TOWN OF HENRIETTA MONROE, NEW YORK			TITLE OF DRAWING: CIVIL SITE PLAN INDEX			
FA PROJECT NO. 230529-03		PROJECT MANAGER S. MELLOTT		DRAWN BY J. TORRES		ISSUE DATE 10/5/2023	
AS SHOWN		SCALE		AS SHOWN		REV	
						DESCRIPTION	
						DATE	
						BY	

DRAWING NO.
C-201
 SHEET 6 OF 17

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 USER: Steven Heintz



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 LINDA D. HEINTZ
 L. 8814 P. 170
 TAX NO. 190.02-1-48.21
 AREA=26.8236 ACRES
 MEASURED TO CENTERLINE

N/A
 MARK GOEHRING AND DEBORAH L. GOEHRING
 L. 8849 P. 427
 TAX NO. 190.02-1-48.1

NOT FOR CONSTRUCTION

Scale: 1"=50'

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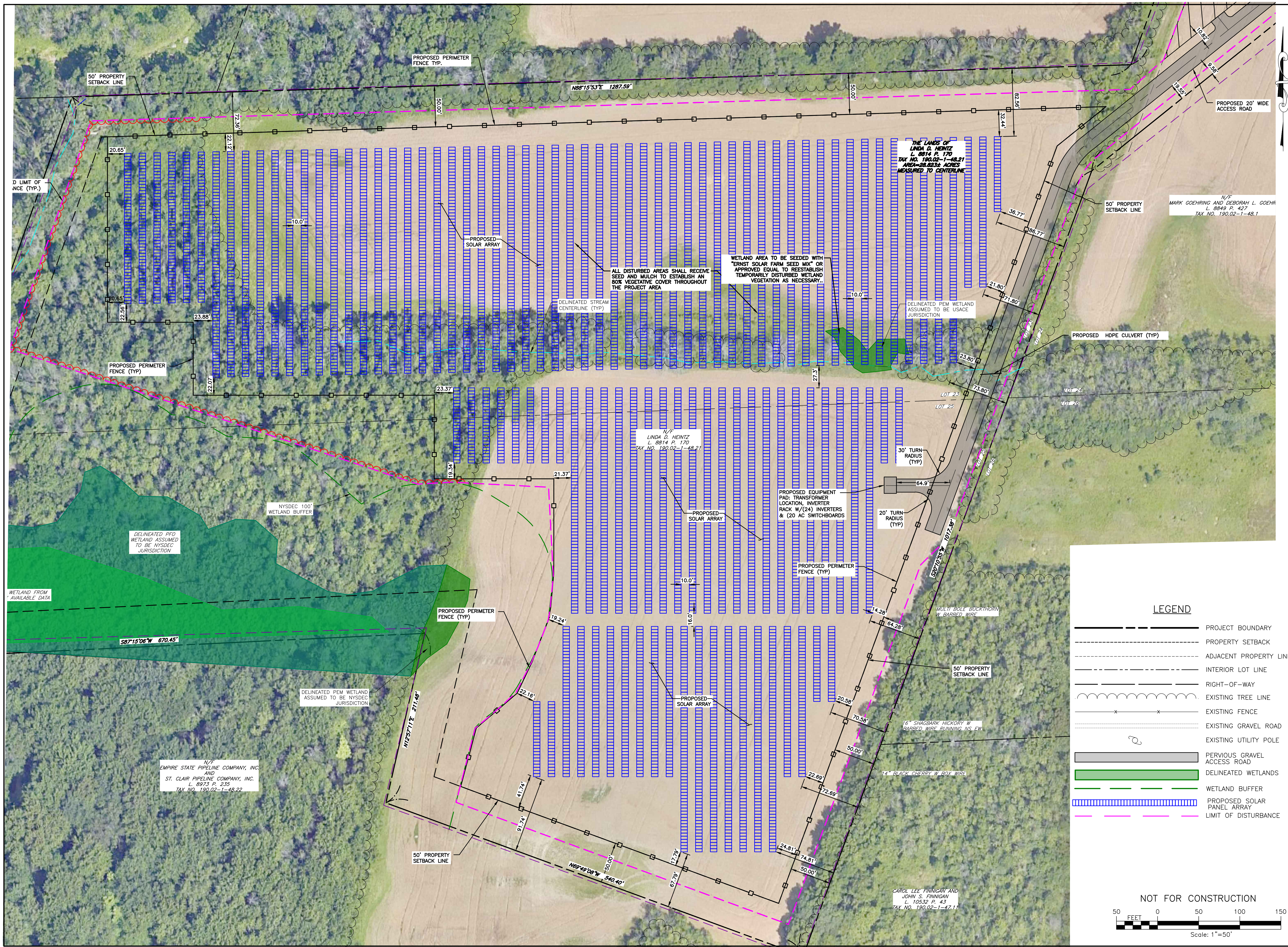
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	INTERIOR LOT LINE
	RIGHT-OF-WAY
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	EXISTING GRAVEL ROAD
o	EXISTING UTILITY POLE
	PERVIOUS GRAVEL ACCESS ROAD
	DELINEATED WETLANDS
	WETLAND BUFFER
	PROPOSED SOLAR PANEL ARRAY
	LIMIT OF DISTURBANCE

PROJECT	TOBIN HENRIETTA SOLAR TOWN OF HENRIETTA MONROE, NEW YORK	DRAWING NO.	C-202
TITLE OF DRAWING	CIVIL SITE PLAN -1	DRAWN BY	AS SHOWN
PROJECT MANAGER	S. MELLOTT	ISSUE DATE	10/5/2023
SCALE	AS SHOWN	DESCRIPTION	DATE
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DRAWN BY	J. TORRES	1	
PROJECT MANAGER	S. MELLOTT	2	
SCALE	AS SHOWN	3	
ISSUE DATE	10/5/2023	4	
DESCRIPTION	AS SHOWN	5	
DATE	10/5/2023	6	
BY	AS SHOWN	7	

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LEGEND

- PROJECT BOUNDARY
- PROPERTY SETBACK
- ADJACENT PROPERTY LINE
- INTERIOR LOT LINE
- RIGHT-OF-WAY
- EXISTING TREE LINE
- EXISTING FENCE
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- EXISTING UTILITY POLE
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- DELINEATED WETLANDS
- WETLAND BUFFER
- PROPOSED SOLAR PANEL ARRAY
- LIMIT OF DISTURBANCE

NOT FOR CONSTRUCTION

Scale: 1"=50'

PROJECT	TOBIN HENRIETTA SOLAR TOWN OF HENRIETTA MONROE, NEW YORK	DATE		BY	
TITLE OF DRAWING	CIVIL SITE PLAN - 2	REV			
DRAWING NO.	C-203	DESCRIPTION			
ISSUE DATE	10/5/2023				
PROJECT NO.	230529-03				
PROJECT MANAGER	S. MELLOTT				
DRAWN BY	J. TORRES				
SCALE	AS SHOWN				

STATE OF NEW YORK
 STEVEN C. MELLOTT
 LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
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THE LANDS OF LINDA D. HEINTZ
 L. 8814 P. 170
 TAX NO. 190.02-1-48.21
 AREA=28.8234 ACRES
 MEASURED TO CENTERLINE

N/F
 MARK GOEHRING AND DEBORAH L. GOEHR
 L. 8849 P. 427
 TAX NO. 190.02-1-48.1

N/F
 LINDA D. HEINTZ
 L. 8814 P. 170
 TAX NO. 190.02-1-48.21

N/F
 EMPIRE STATE PIPELINE COMPANY, INC.
 AND
 ST. CLAIR PIPELINE COMPANY, INC.
 L. 8973 P. 235
 TAX NO. 190.02-1-48.22

CAROL LEE FINNIGAN AND
 JOHN S. FINNIGAN
 L. 10532 P. 43
 TAX NO. 190.02-1-47.11

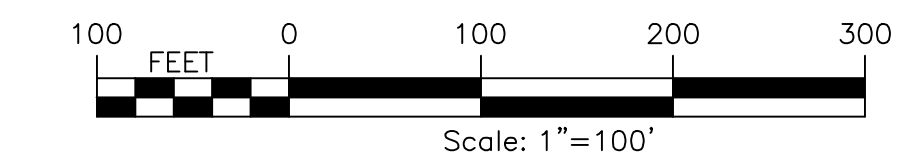
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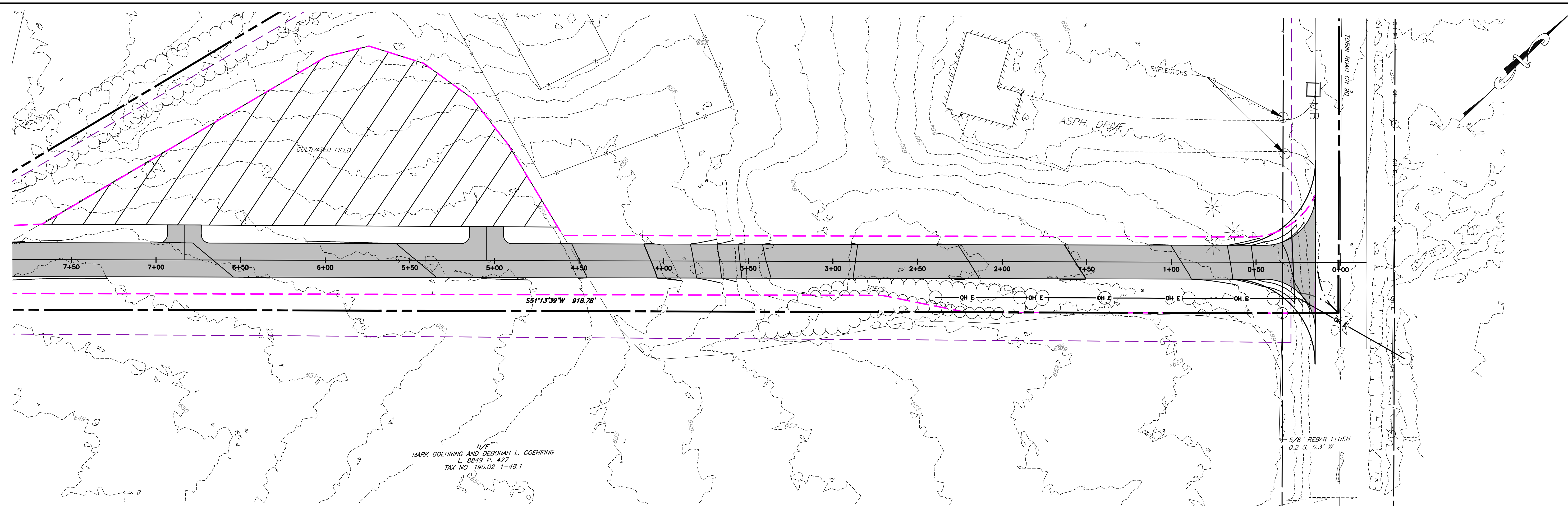
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- EXISTING GRAVEL ROAD
- EXISTING UTILITY POLE
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- WETLAND BUFFER
- PROPOSED SOLAR PANEL ARRAY
- LIMIT OF DISTURBANCE
- PROPOSED FENCE
- PROPOSED STAGING AREA
- PROPOSED UTILITY POLE

NOT FOR CONSTRUCTION



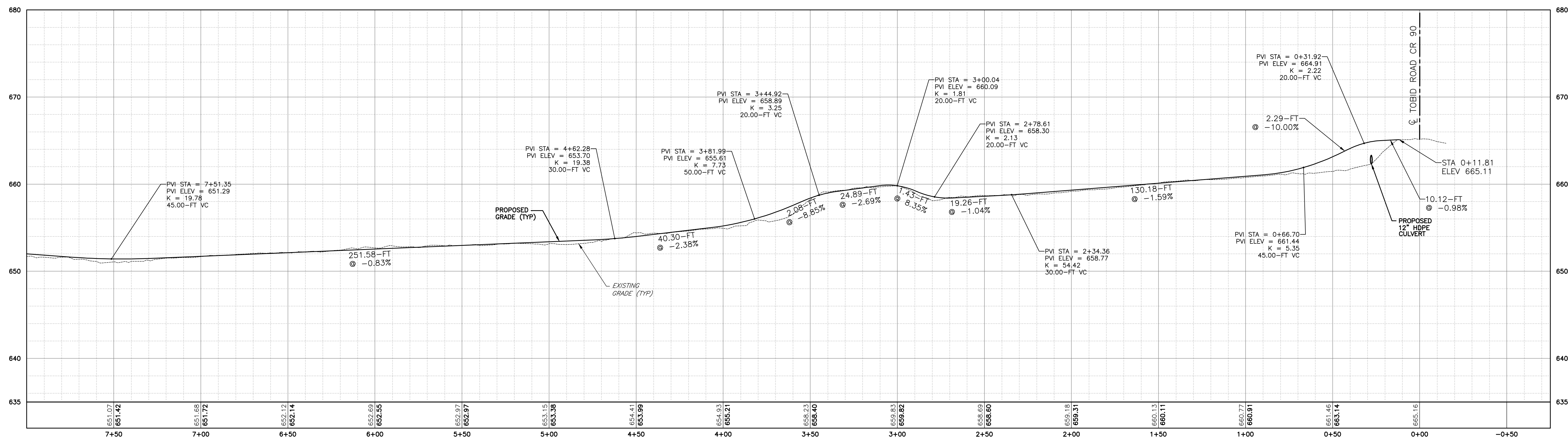
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TITLE OF DRAWING GRADING PLAN		DRAWN BY J. TORRES	SCALE AS SHOWN
PROJECT MANAGER S. MELLOTT		ISSUE DATE 10/5/2023	REV
FIRM NAME FISHER ASSOCIATES P.E. L.S., L.A., D.P.C.		PROJECT NO. 230529-03	DESCRIPTION
REGISTERED PROFESSIONAL ENGINEER STEVEN C. MELLOTT STATE OF NEW YORK LICENSE NO. 136817		DRAWN BY J. TORRES	DATE
PROJECT BOUNDARY		PROJECT MANAGER S. MELLOTT	REV 7
PROPERTY SETBACK		PROJECT NO. 230529-03	REV 6
ADJACENT PROPERTY LINE		PROJECT MANAGER S. MELLOTT	REV 5
INTERIOR LOT LINE		DRAWN BY J. TORRES	REV 4
RIGHT-OF-WAY		SCALE AS SHOWN	REV 3
EXISTING TREE LINE		ISSUE DATE 10/5/2023	REV 2
EXISTING FENCE		FIRM NAME FISHER ASSOCIATES	REV 1
EXISTING GRAVEL ROAD		PROJECT BOUNDARY	DESCRIPTION
EXISTING UTILITY POLE		ADJACENT PROPERTY LINE	DATE
PERVIOUS GRAVEL ACCESS ROAD		INTERIOR LOT LINE	BY
DELINEATED WETLANDS		RIGHT-OF-WAY	DATE
WETLAND BUFFER		EXISTING TREE LINE	BY
PROPOSED SOLAR PANEL ARRAY		EXISTING FENCE	DATE
LIMIT OF DISTURBANCE		EXISTING GRAVEL ROAD	BY
PROPOSED FENCE		EXISTING UTILITY POLE	DATE
PROPOSED STAGING AREA		PERVIOUS GRAVEL ACCESS ROAD	BY
PROPOSED UTILITY POLE		DELINEATED WETLANDS	DATE

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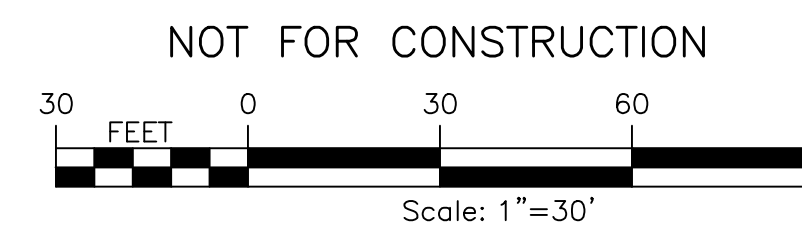
N/E
 MARK GOEHRING AND DEBORAH L. GOEHRING
 L. 8949 P. 427
 TAX NO. 190.02-1-48.1

5/8" REBAR FLUSH
 0.2 S, 0.3' W



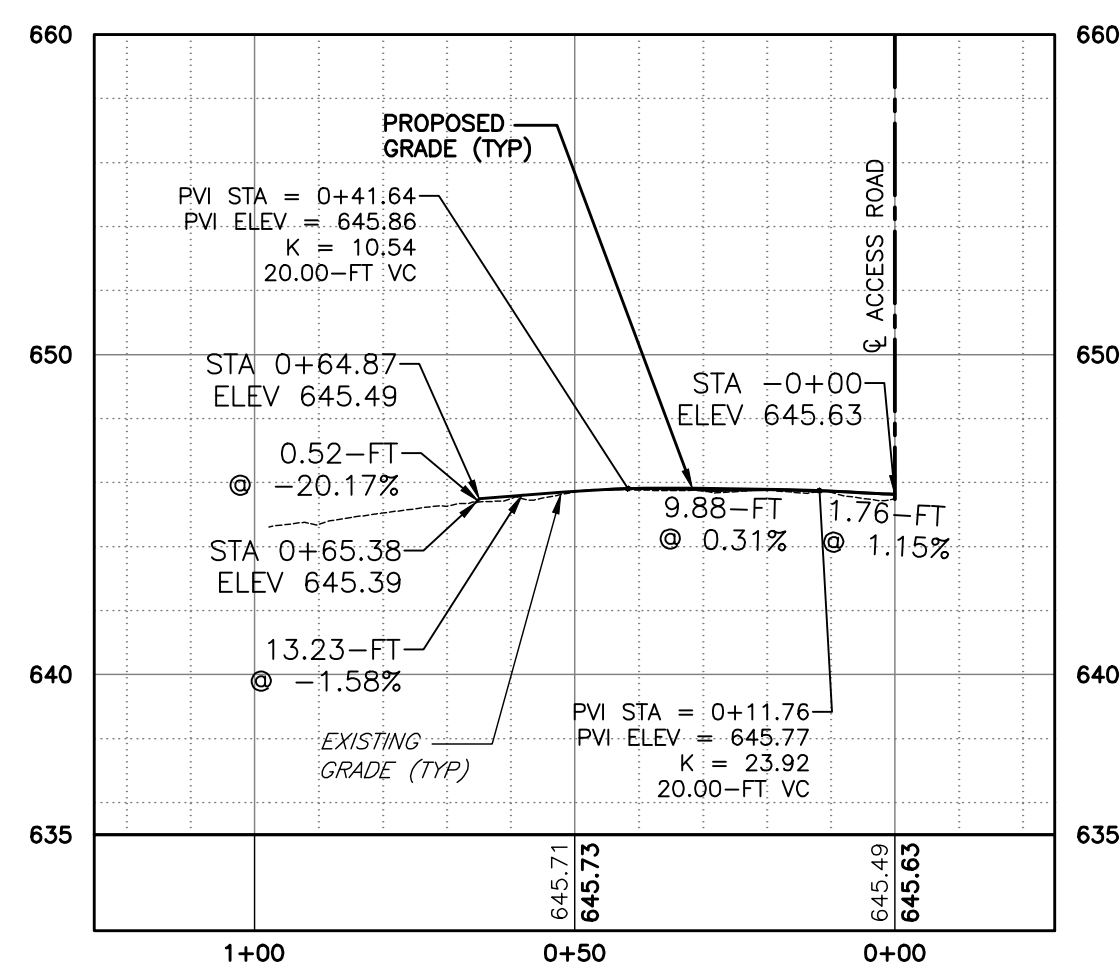
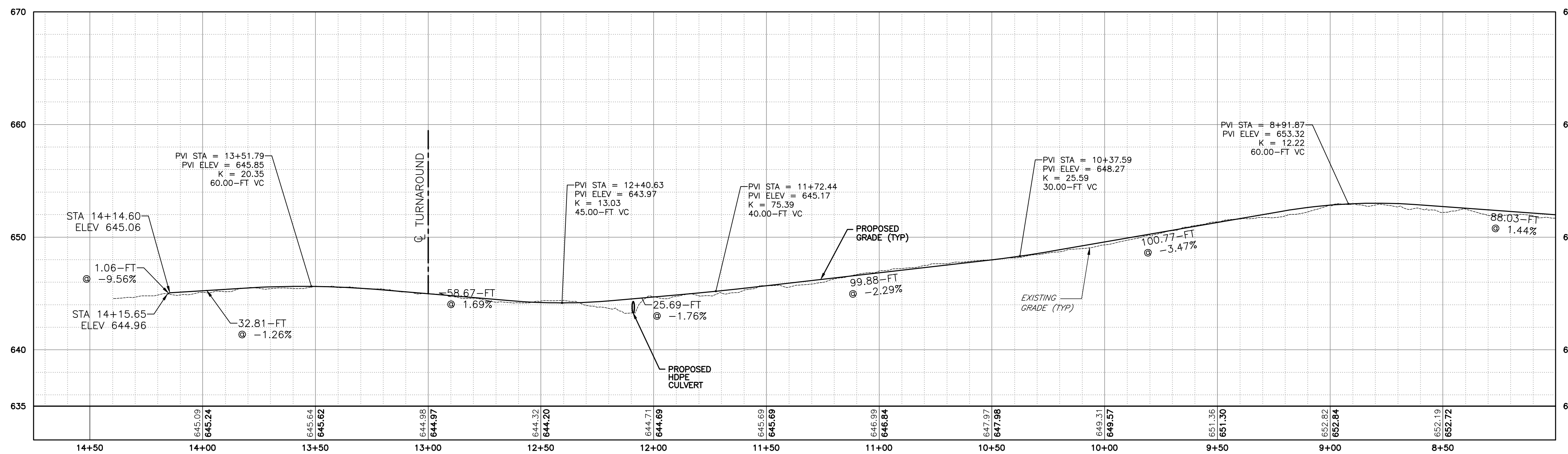
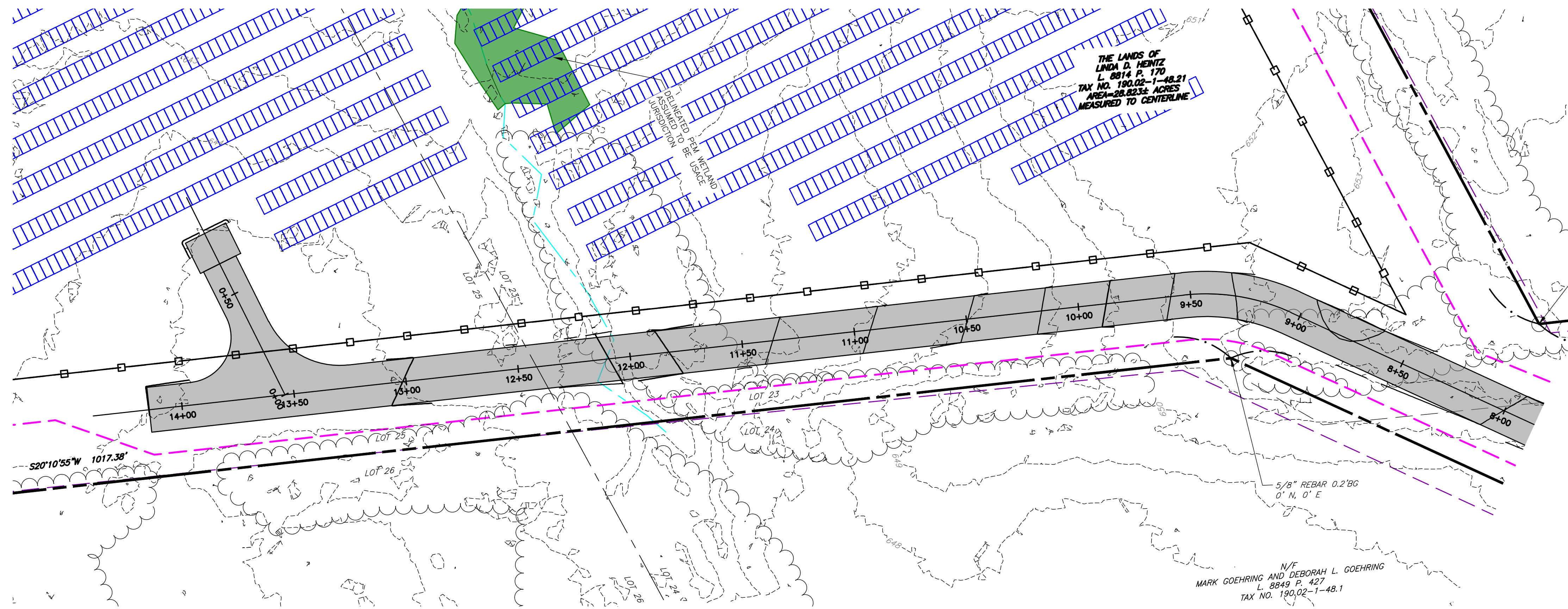
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- PROJECT BOUNDARY
- PROPERTY SETBACK
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- EXISTING TREE LINE
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- PROPOSED STAGING AREA
- PROPOSED UTILITY POLE

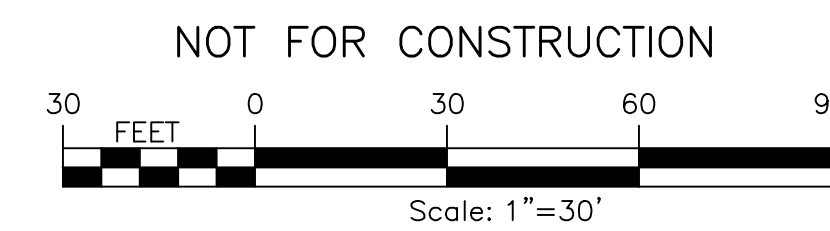


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PROJECT NO. 230529-03 PROJECT MANAGER S. MELLOTT DRAWN BY J. TORRES SCALE AS SHOWN					ISSUE DATE 10/5/2023				
PROJECT: TOBIN HENRIETTA SOLAR TOWN OF HENRIETTA MONROE, NEW YORK TITLE OF DRAWING: ACCESS ROAD PLAN AND PROFILE									
DRAWING NO. C-301 SHEET 10 OF 17									

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 USER: Steven Heintz

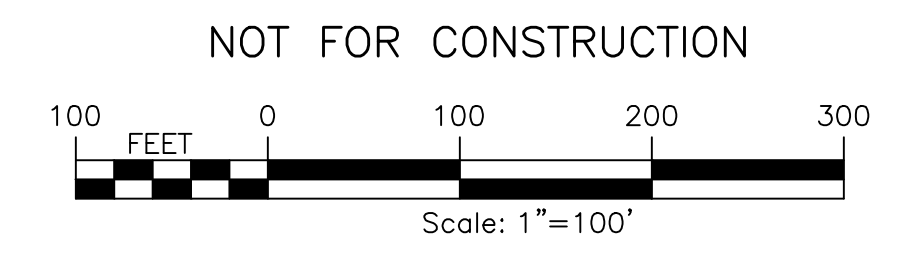
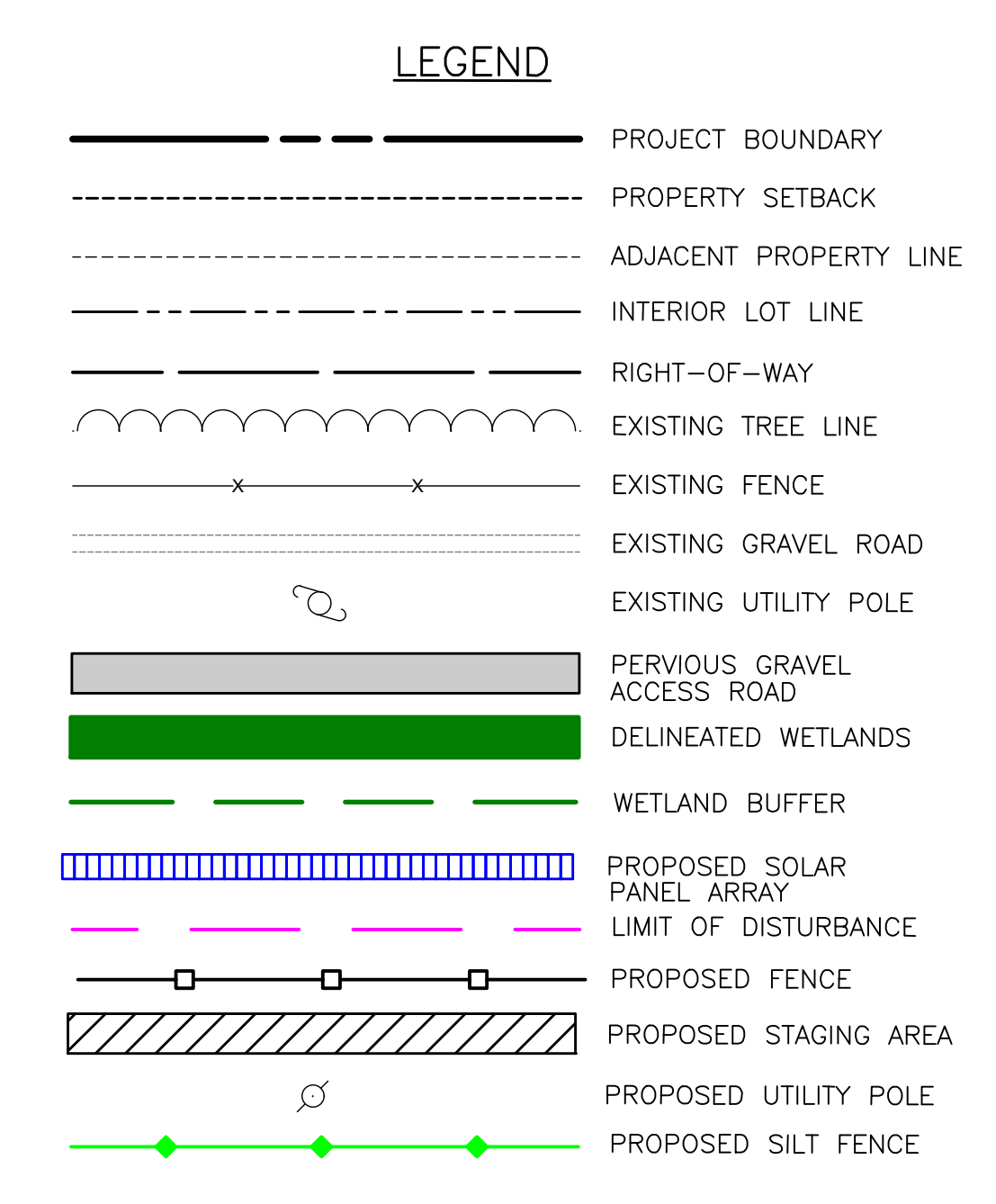
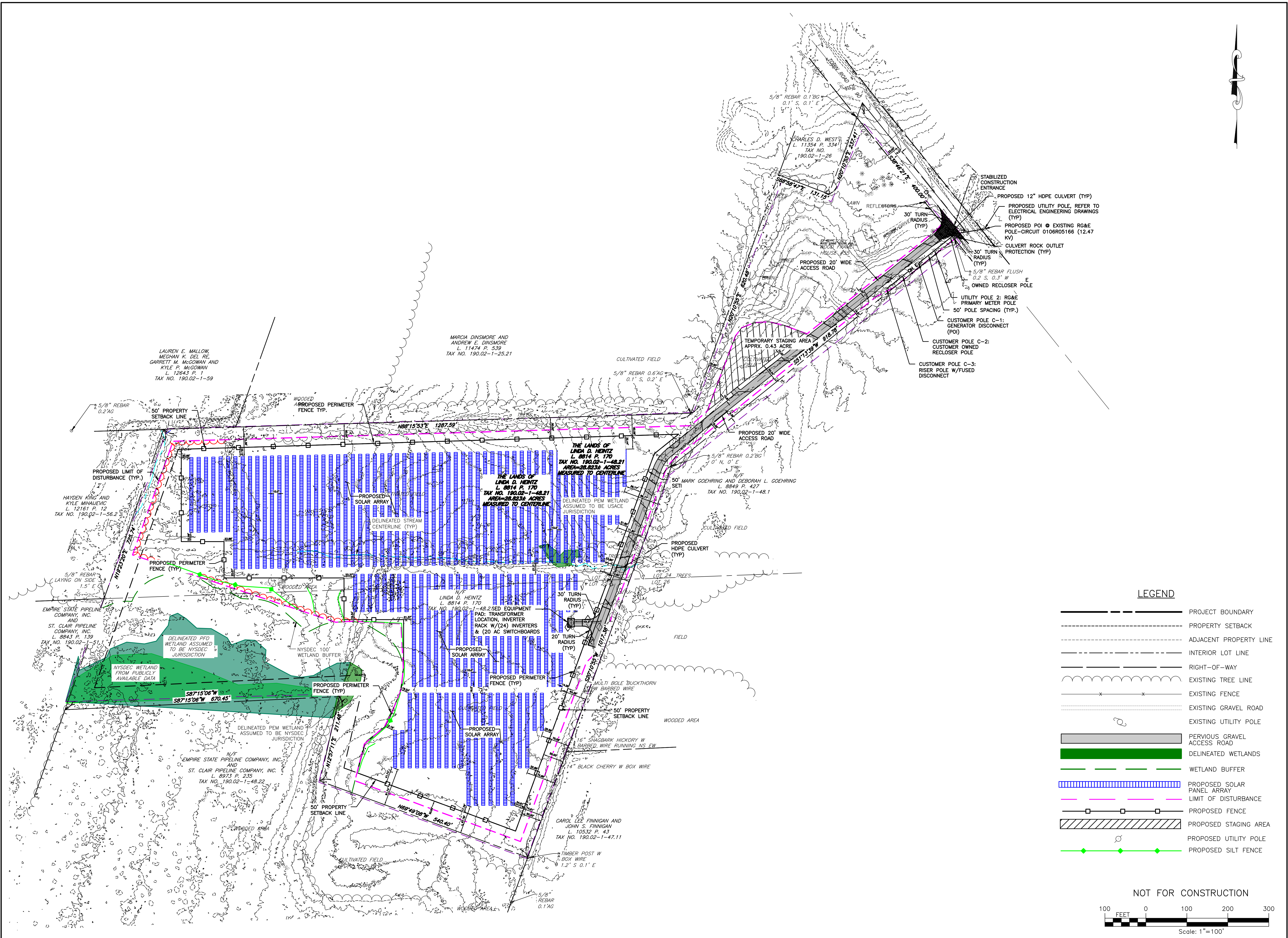


LEGEND			
	PROJECT BOUNDARY		DELINEATED WETLANDS
	PROPERTY SETBACK		WETLAND BUFFER
	ADJACENT PROPERTY LINE		PROPOSED SOLAR PANEL ARRAY
	INTERIOR LOT LINE		PROPOSED FENCE
	RIGHT-OF-WAY		LIMIT OF DISTURBANCE
	EXISTING TREE LINE		PERVIOUS GRAVEL ACCESS ROAD
	EXISTING FENCE		PROPOSED STAGING AREA
	EXISTING GRAVEL ROAD		PROPOSED UTILITY POLE
	EXISTING UTILITY POLE		



PROJECT TOBIN HENRIETTA SOLAR TOWN OF HENRIETTA MONROE, NEW YORK		TITLE OF DRAWING ACCESS ROAD PLAN AND PROFILE	
DRAWING NO. C-302		SHEET 11 OF 17	
PROJECT MANAGER S. MELLOTT		DRAWN BY J. TORRES	
PROJECT NO. 230529-03		SCALE AS SHOWN	
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BY		DATE	

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 USER: Steven Nelson



PROJECT TOBIN HENRIETTA SOLAR TOWN OF HENRIETTA MONROE, NEW YORK		TITLE OF DRAWING EROSION CONTROL PLAN	
DRAWING NO. C-400		SHEET 12 OF 17	
PROJECT MANAGER S. MELLOTT		ISSUE DATE 10/5/2023	
DRAWN BY J. TORRES		AS SHOWN	
PROJECT NO. 230529-03		DATE 10/5/2023	
FIRM NAME FISHER ASSOCIATES		DESCRIPTION EROSION CONTROL PLAN	
PROJECT NO. 230529-03		REV	
PROJECT MANAGER S. MELLOTT		7	
DRAWN BY J. TORRES		6	
SCALE AS SHOWN		5	
ISSUE DATE 10/5/2023		4	
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LEGEND

- PROJECT BOUNDARY
- PROPERTY SETBACK
- ADJACENT PROPERTY LINE
- INTERIOR LOT LINE
- RIGHT-OF-WAY
- EXISTING TREE LINE
- EXISTING FENCE
- EXISTING GRAVEL ROAD
- EXISTING UTILITY POLE
- PERVIOUS GRAVEL ACCESS ROAD
- DELINEATED WETLANDS
- WETLAND BUFFER
- PROPOSED SOLAR PANEL ARRAY
- LIMIT OF DISTURBANCE
- PROPOSED FENCE
- PROPOSED STAGING AREA
- PROPOSED UTILITY POLE
- SEED AND MULCH APPLICATION AREA (17.3 ACRES)

OPTION A - PREFERRED SEED MIX

Species	Scientific Name	Pure Live Seeds Per Square Foot	% of Mixture
Chewing Fescue	<i>Festuca rubra</i>	53.00	15.14%
Creeping Red Fescue	<i>Festuca rubra</i>	26.00	7.43%
Hard Fescue	<i>Festuca ovina</i>	57.00	16.29%
Kentucky Bluegrass	<i>Poa pratensis</i>	73.00	20.86%
Sheep Fescue	<i>Festuca ovina</i>	62.50	17.86%
Crimson Clover	<i>Trifolium incarnatum</i>	10.00	2.86%
Heal All	<i>Prunella vulgaris*</i>	1.50	0.43%
Western Yarrow (native source)	<i>Achillea millefolium occidentale**</i>	13.00	3.71%
White Dutch Clover	<i>Trifolium repens</i>	54.00	15.43%
Graminoids Total		271.50	77.57%
Forb Total		78.50	22.43%
Total Seed Mix		350.00	100.00%

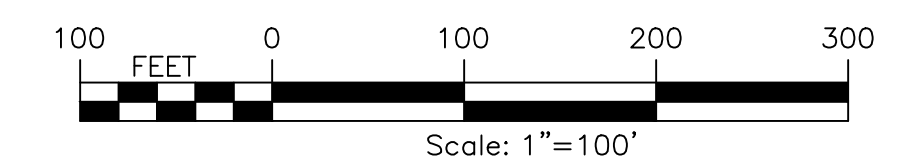
*Species may exist in limited quantities. If not available, allocate this portion of seed mix to *T. repens*.
 **This is a short statured sub-species. Seed mix must contain this or an equivalent short statured subspecies.

OPTION B - SEED MIX TO BE USED IF OPTION A IS NOT AVAILABLE.

Species	Scientific Name	Pure Live Seeds Per Square Foot	% of Mixture
Redtop (short variety)	<i>Agrostis gigantea</i>	100.00	26.35%
Canada Bluegrass	<i>Poa compressa</i>	25.00	6.59%
Kentucky Bluegrass	<i>Poa pratensis</i>	75.00	19.76%
Autumn Bentgrass	<i>Agrostis peruviana</i>	75.00	19.76%
Path Rush	<i>Juncus tenuis</i>	35.00	9.22%
Crimson Clover	<i>Trifolium incarnatum</i>	10.00	2.64%
Heal All	<i>Prunella vulgaris*</i>	1.50	0.40%
Western Yarrow (native source)	<i>Achillea millefolium occidentale**</i>	13.00	3.43%
White Dutch Clover	<i>Trifolium repens</i>	45.00	11.86%
Graminoids Total		310.00	72.46%
Forb Total		69.50	18.31%
Total Seed Mix		379.50	100.00%

*Species may exist in limited quantities. If not available, allocate this portion of seed mix to *T. repens*.
 **This is a short statured sub-species. Seed mix must contain this or an equivalent short statured subspecies.

NOT FOR CONSTRUCTION



PROJECT	TOBIN HENRIETTA SOLAR TOWN OF HENRIETTA MONROE, NEW YORK
TITLE OF DRAWING	LANDSCAPING PLAN
DRAWING NO.	C-500
SHEET	13 OF 17
DATE	10/5/2023
DESCRIPTION	AS SHOWN
REV	1
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3	2
2	1

ISSUE DATE: 10/5/2023

SCALE: AS SHOWN

DRAWN BY: J. TORRES

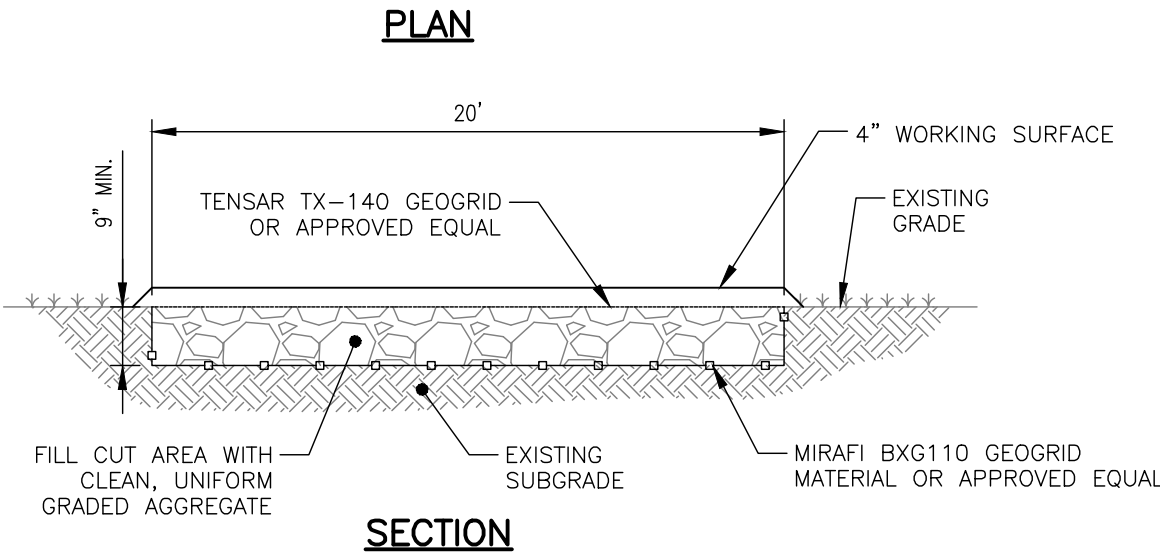
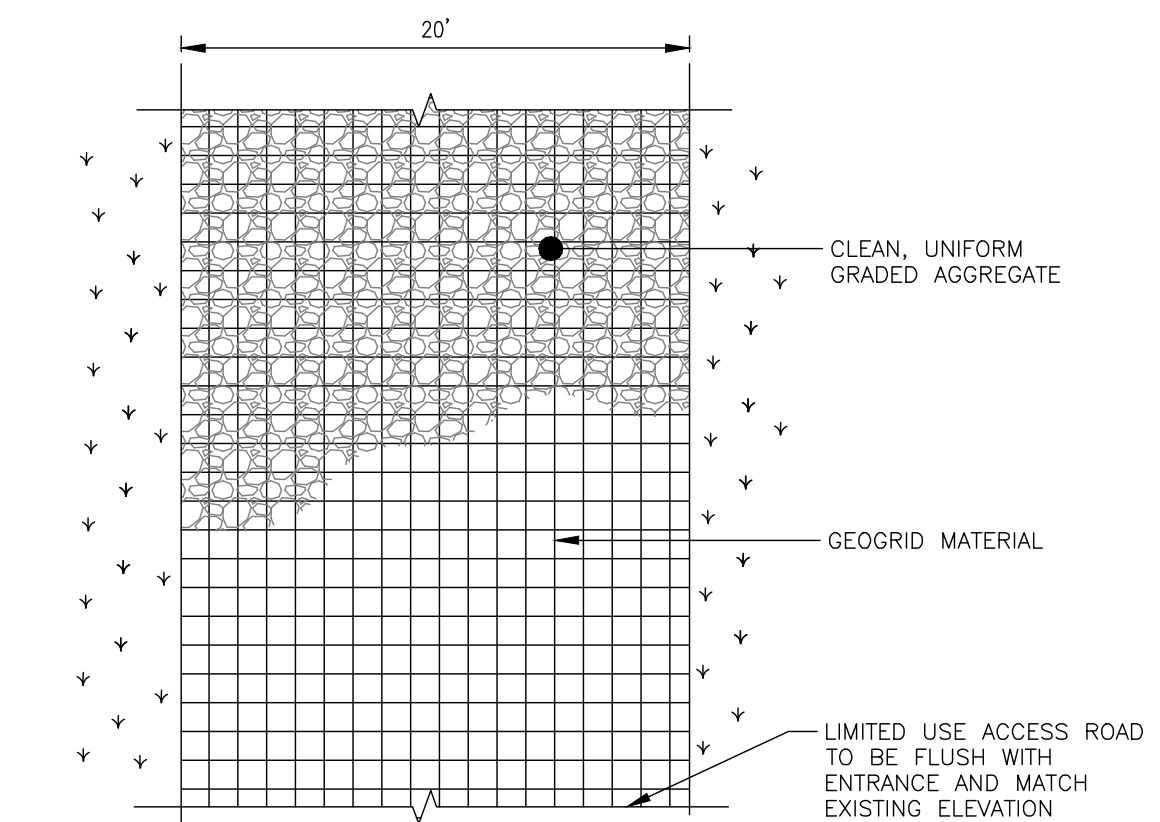
PROJECT MANAGER: S. MELLOTT

FA PROJECT NO.: 230529-03

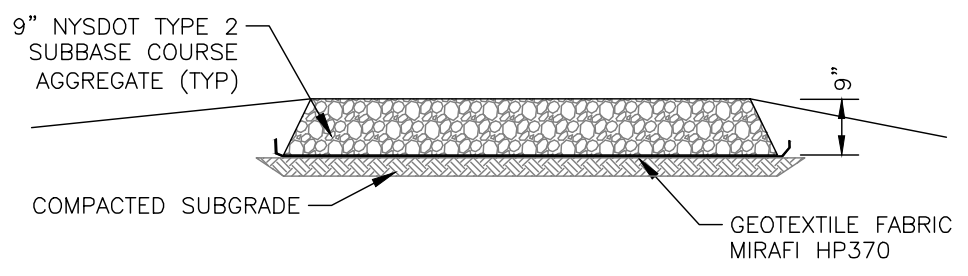
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PERVIOUS GRAVEL ROAD DETAIL
 NOT TO SCALE



- STAGING AREA NOTES:**
1. STRIP AND STOCKPILE TOPSOIL.
 2. INSTALL STAGING AREA.
 3. REMOVE STONE WHEN STAGING AREA IS NO LONGER NEEDED.
 4. DECOMPACT SUBGRADE SOILS PER NYSDEC SWDM TABLE 5.3 SOIL RESTORATION REQUIREMENTS.
 5. REINSTALL STOCKPILED TOPSOIL.
 6. SEED AND MULCH THE DISTURBED AREA.

TEMPORARY STAGING AREA
 NOT TO SCALE

PERVIOUS ROAD GENERAL NOTES:

1. REMOVE STUMPS, ROCKS AND DEBRIS AS NECESSARY. FILL VOIDS TO MATCH EXISTING NATIVE SOILS AND COMPACTION LEVEL.
2. REMOVED TOPSOIL MAY BE SPREAD IN ADJACENT AREAS TO PROVIDE A SMOOTH SURFACE. COMPACT TO THE DEGREE OF THE NATIVE INSITU SOIL. DO NOT PLACE IN AN AREA THAT IMPEDES STORMWATER DRAINAGE.
3. GRADE ROADWAY, WHERE NECESSARY, TO NATIVE SOIL AND DESIRED ELEVATION. MINOR GRADING FOR GROSS SLOPE CUT AND FILL MAY BE REQUIRED.
4. PERVIOUS ACCESS ROAD CROSS SLOPE SHALL BE 2% IN MOST CASES AND SHOULD NOT EXCEED 6%. THE LONGITUDINAL SLOPE OF THE ACCESS DRIVE SHOULD NOT EXCEED 15%.
5. SOIL RESTORATION PRACTICES SHALL BE IMPLEMENTED WITHIN THE LIMITS OF THE PERVIOUS ACCESS ROAD IN AREAS WHERE THE UNDERLYING SOILS HAVE BEEN COMPACTED IN SUCH A MANNER THAT DOES NOT ALLOW FOR INFILTRATIONS OF THE STORMWATER RUNOFF. CONDITIONS SHALL BE VERIFIED BY SOIL PENETROMETER READINGS AND SHALL BE COMPARED TO THE RESPECTIVE RECORDED READINGS TAKEN PRIOR TO CONSTRUCTION, EVERY 100 LINEAR FEET ALONG THE PROPOSED ROADWAY.
6. IF THE PERVIOUS ACCESS ROAD IS COMPLETED DURING THE INITIAL PHASES OF CONSTRUCTION, A STANDARD NEW YORK STATE STABILIZED CONSTRUCTION ACCESS SHALL BE CONSTRUCTED AND UTILIZED TO REMOVE SEDIMENT FROM CONSTRUCTION VEHICLES AND EQUIPMENT PRIOR TO ENTERING THE LIMITED USE PERVIOUS ACCESS ROAD FROM ANY LOCATION ON, OR OFF SITE. MAINTENANCE OF THE PERVIOUS ACCESS ROAD WILL BE REQUIRED IF SEDIMENT IS OBSERVED WITHIN THE CLEAN STONE.
7. 4" OF AGGREGATE WILL BE ADDED AS A WORKING SURFACE DURING CONSTRUCTION, AGGREGATE WILL BE REMOVED ONCE CONSTRUCTION IS FINALIZED.

GEOGRID MATERIAL NOTES:

1. THE GEOGRID, OR COMPARABLE PRODUCT, IS INTENDED FOR USE FOR ALL CONDITIONS, IN ORDER TO ASSIST IN MATERIAL SEPARATION FROM NATIVE SOILS AND PRESERVE ACCESS LOADS.
2. GRAVEL FILL MATERIAL SHALL CONSIST OF 1-4" CLEAN, DURABLE, SHARP-ANGLED CRUSHED STONE OF UNIFORM QUALITY, MEETING THE SPECIFICATIONS OF NYSOT ITEM 703-02, SIZE DESIGNATION 3-5 OF TABLE 703-4. STONE MAY BE PLACED IN FRONT OF, AND SPREAD WITH, A TRACKED VEHICLE. GRAVEL SHALL NOT BE COMPACTED.
3. GEOGRID SHALL BE MIRAFI BXG110 OR APPROVED EQUAL.
4. IF MORE THAN ONE ROLL WIDTH IS REQUIRED, ROLLS SHOULD OVERLAP A MINIMUM OF SIX INCHES.
5. REFER TO MANUFACTURER'S SPECIFICATION FOR PROPER TYING AND CONNECTIONS.
6. PERVIOUS ACCESS ROAD SHALL BE TOP DRESSED AS REQUIRED WITH ONLY 1-4" CRUSHED STONE MEETING NYSOT ITEM 703-02 SPECIFICATIONS.

REV	DESCRIPTION	DATE	BY
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PROJECT NO. 230529-03
 PROJECT MANAGER S. MELLOTT
 DRAWN BY J. TORRES
 SCALE AS SHOWN
 ISSUE DATE 10/5/2023

STATE OF NEW YORK
 SEVEN C. MELLOTT
 LICENSED PROFESSIONAL ENGINEER
 02172

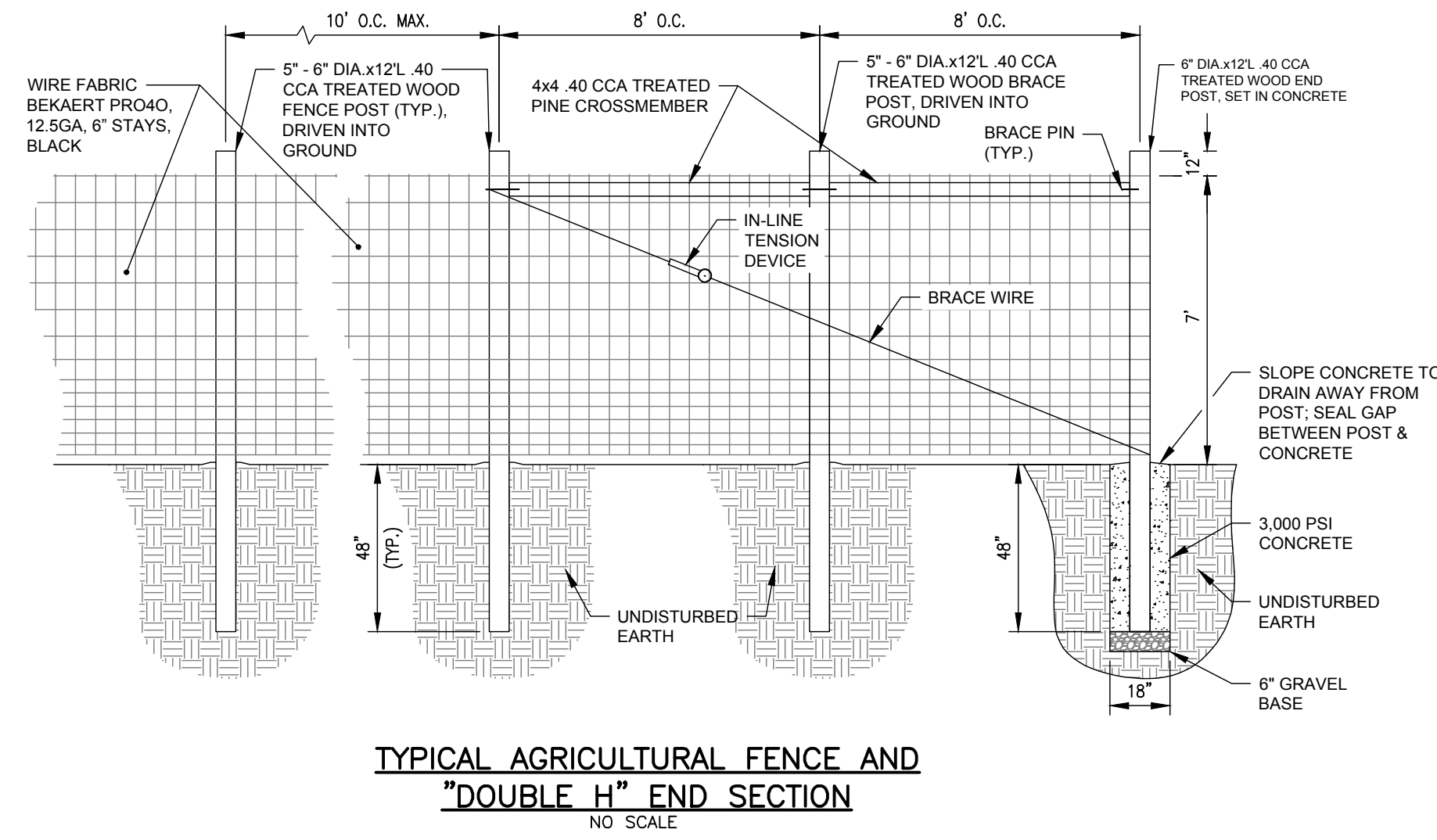


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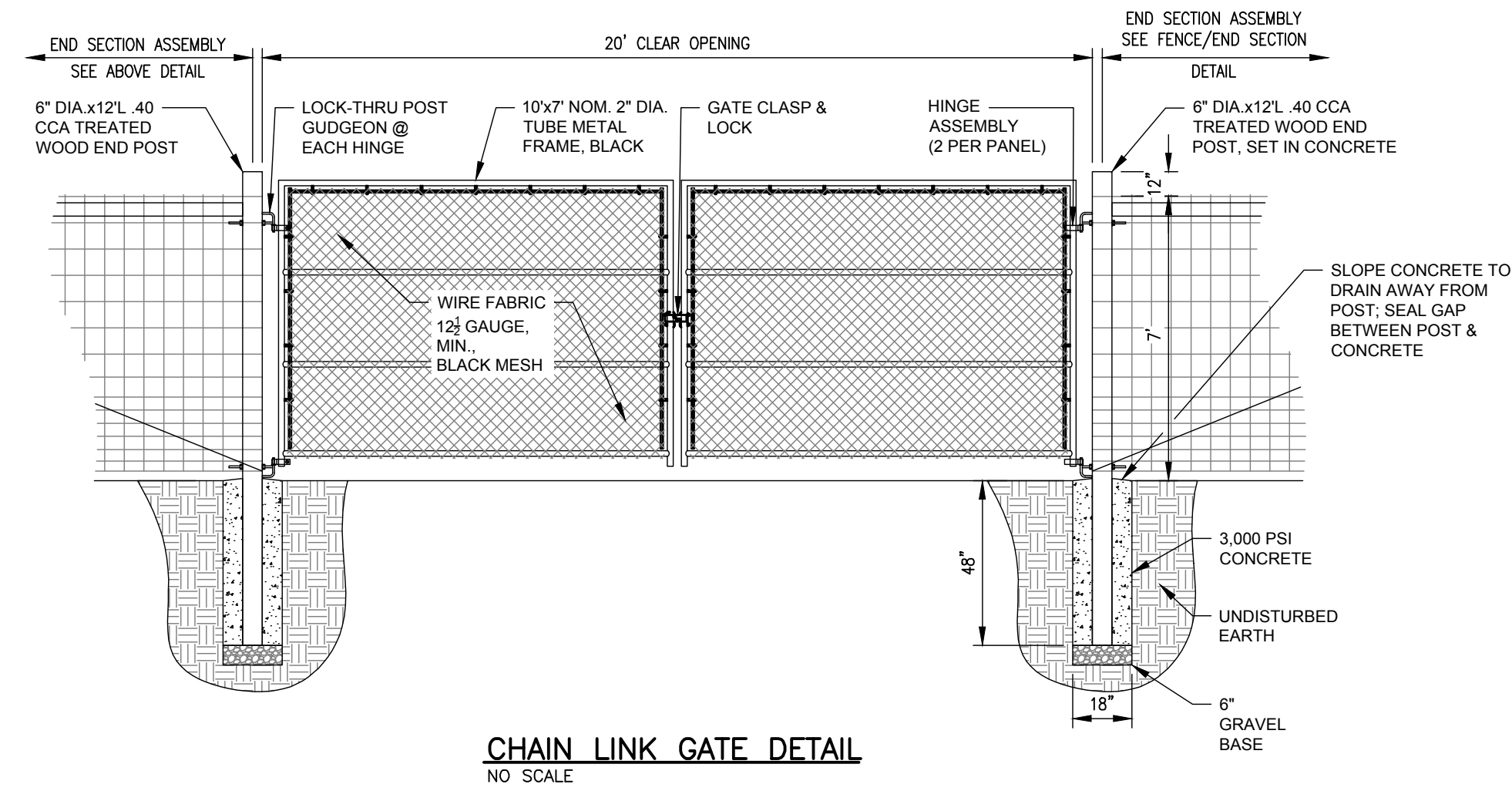
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 SHEET 15 OF 17

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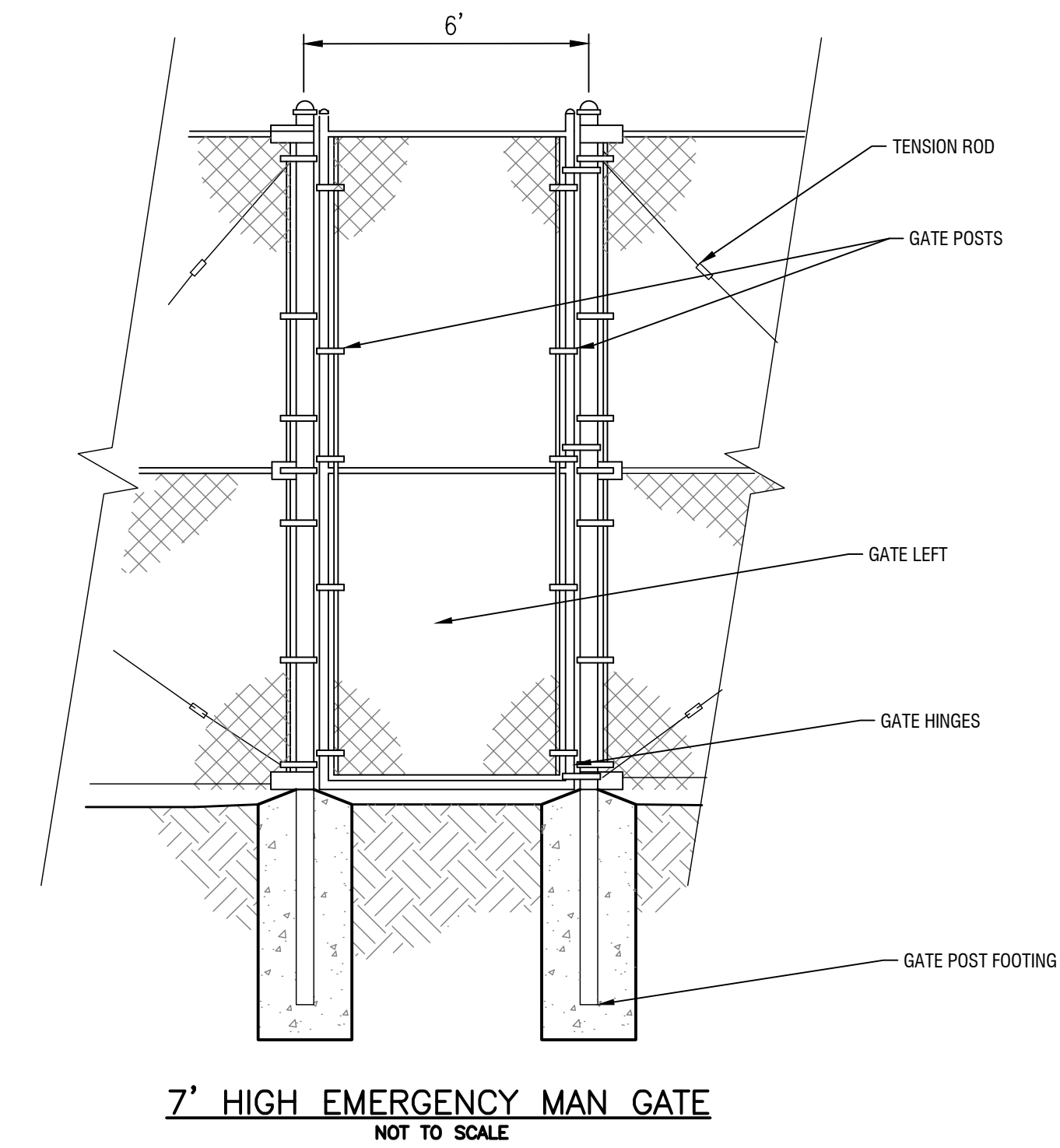
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TYPICAL AGRICULTURAL FENCE AND
 "DOUBLE H" END SECTION
 NO SCALE



CHAIN LINK GATE DETAIL
 NO SCALE

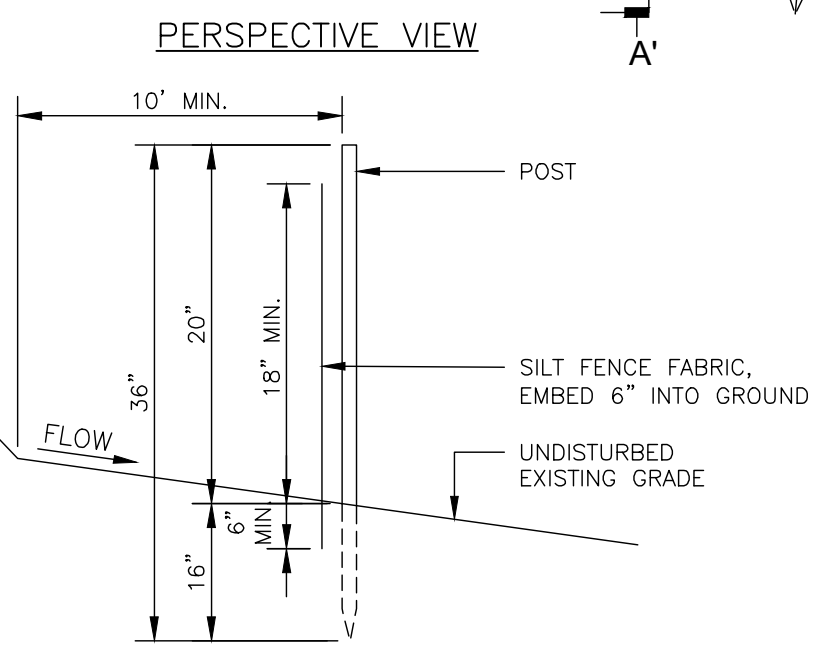
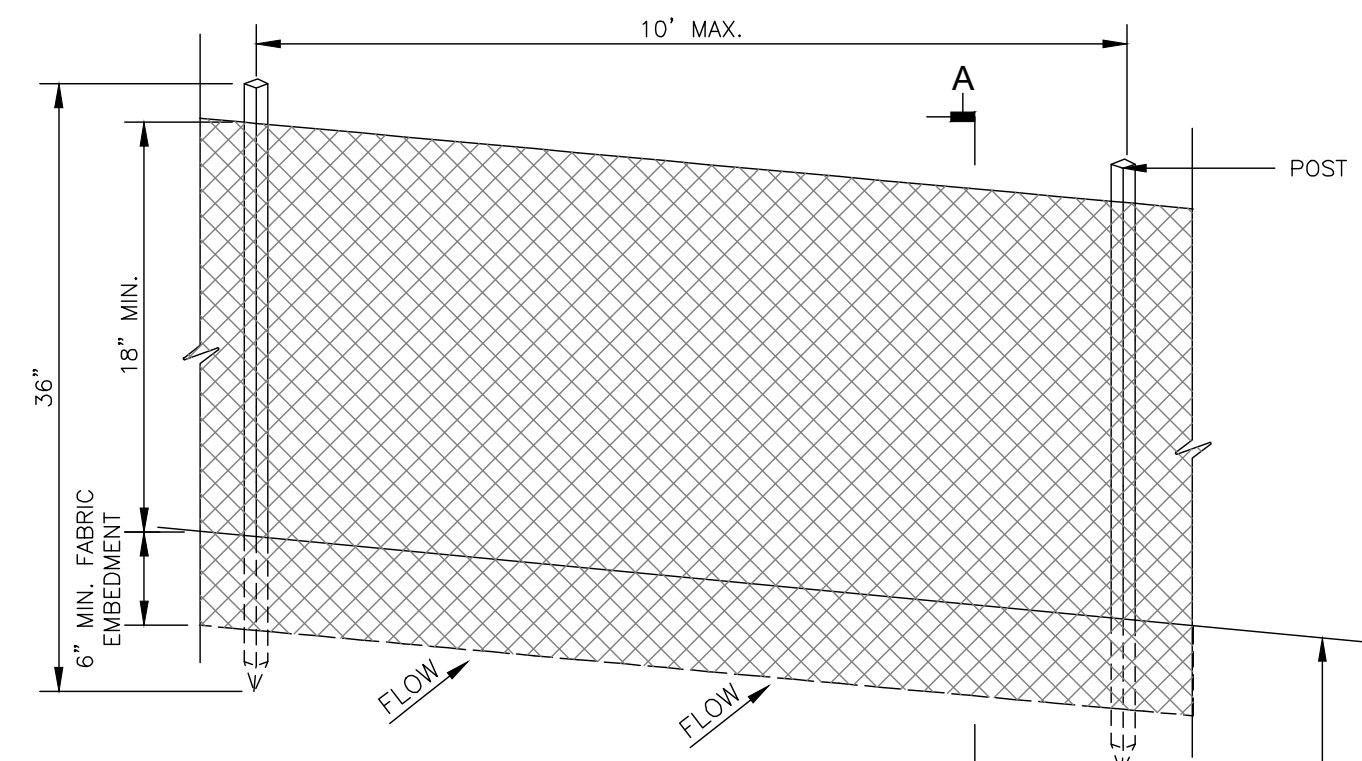


7' HIGH EMERGENCY MAN GATE
 NOT TO SCALE

PROJECT TOBIN HENRIETTA SOLAR TOWN OF HENRIETTA MONROE, NEW YORK		DRAWING NO. C-705	
TITLE OF DRAWING DETAILS		SHEET 16 OF 17	
PROJECT NO. 230529-03		PROJECT MANAGER S. MELLOTT	
DRAWN BY J. TORRES		SCALE AS SHOWN	
ISSUE DATE 10/5/2023		REV	
AS SHOWN		DESCRIPTION	
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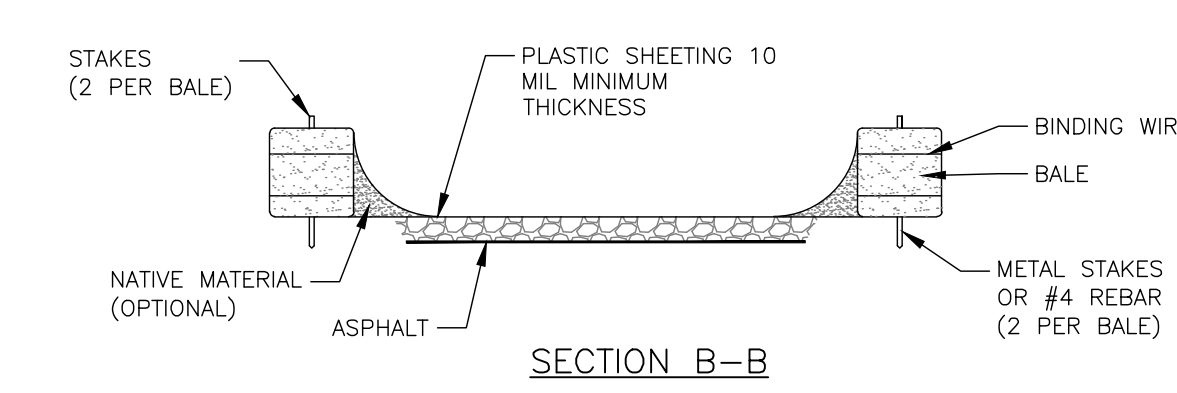
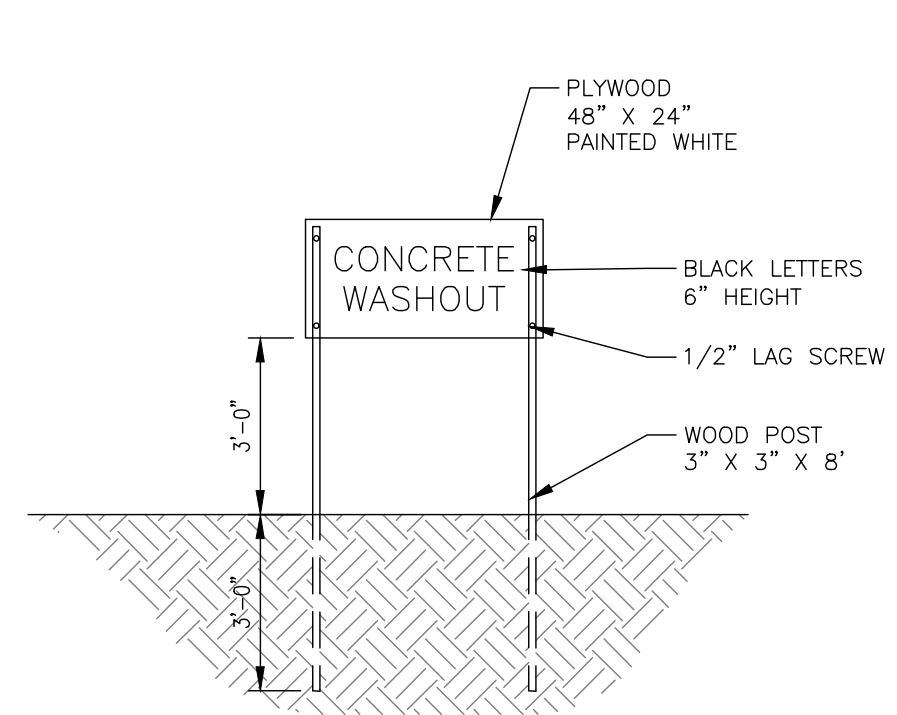
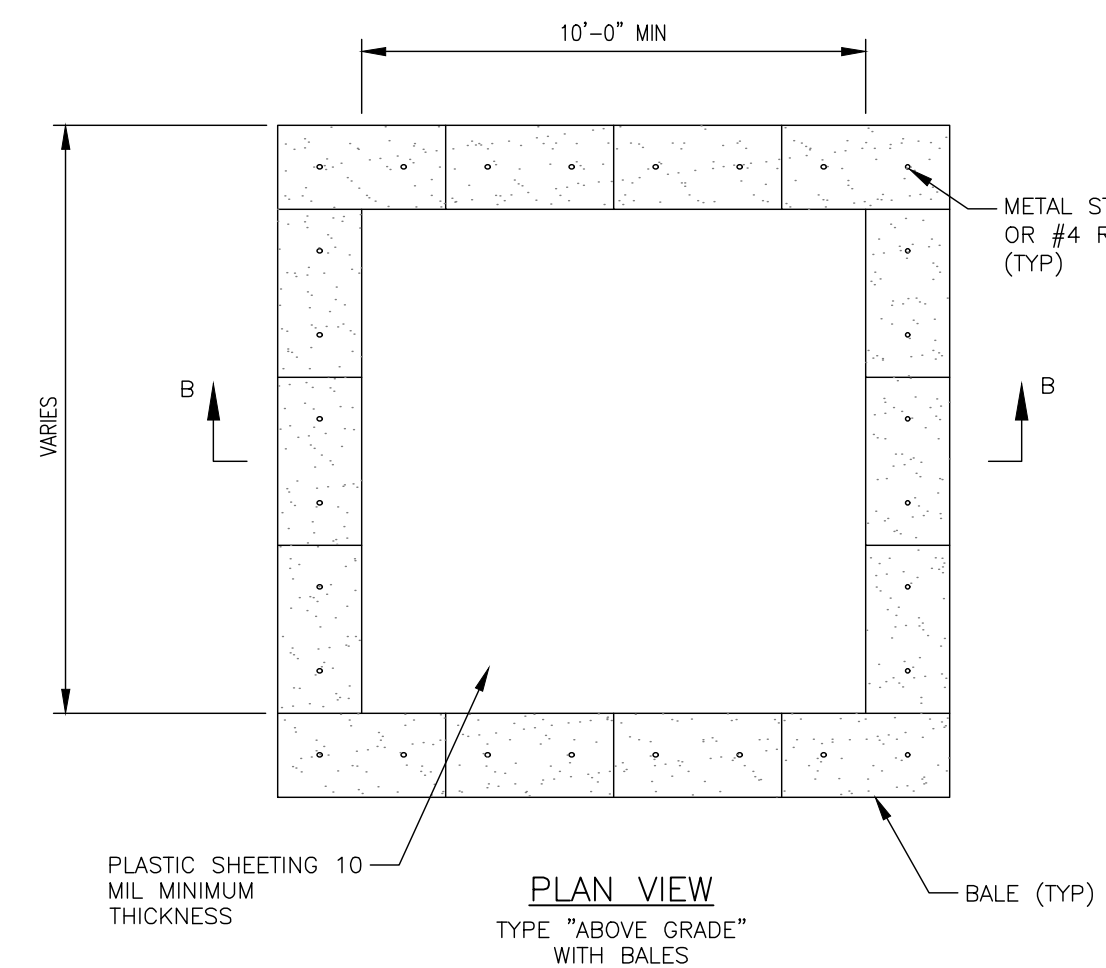
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NOTES:

1. WHEN TWO SECTIONS OF SILT FENCE FABRIC ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABLUNKA T140N, OR APPROVED EQUAL.
2. PREFABRICATED UNITS SHALL MEET THE MINIMUM REQUIREMENTS SHOWN.
3. MAINTENANCE SHALL BE PERFORMED IMMEDIATELY AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

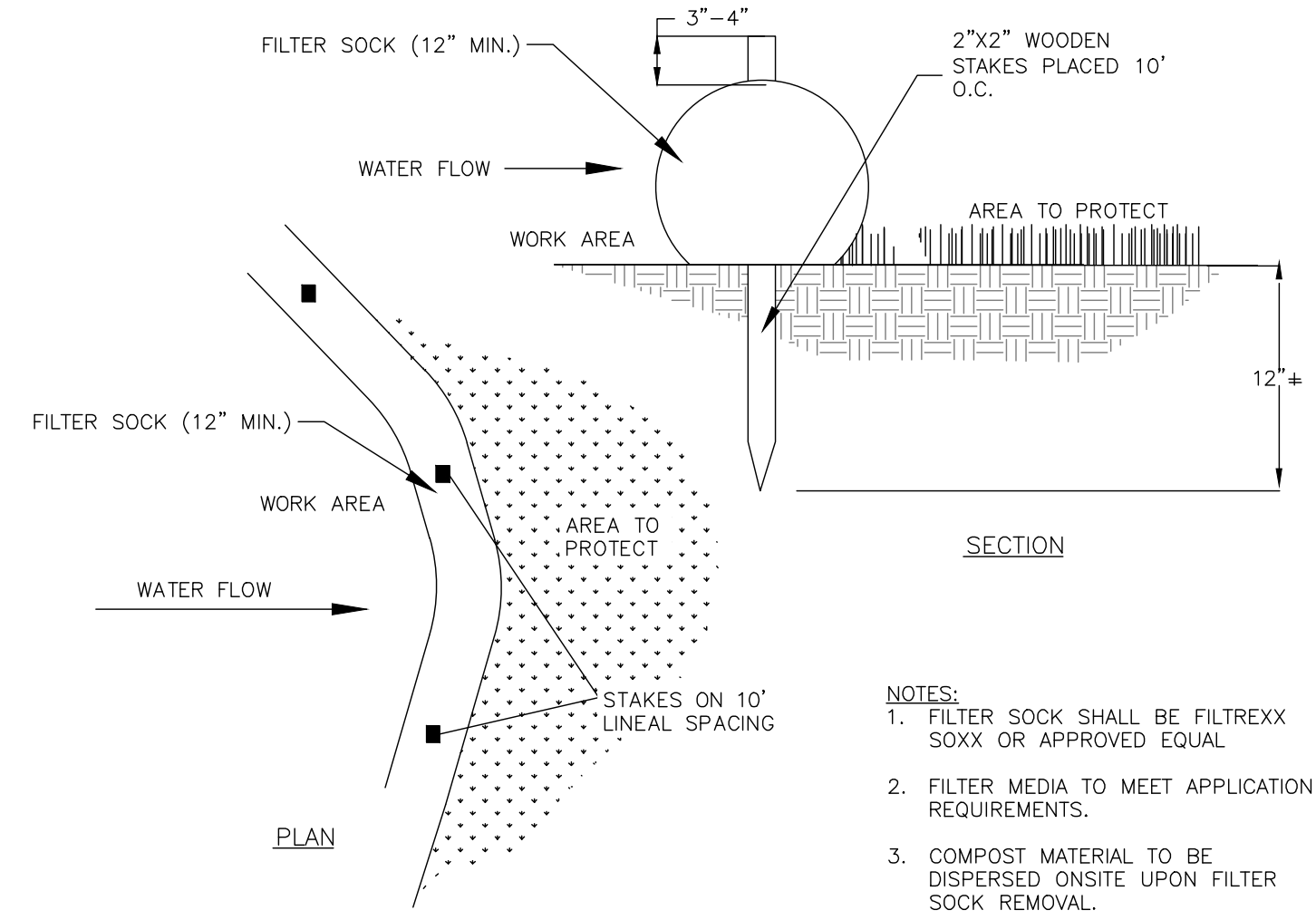
SILT FENCE DETAIL
NOT TO SCALE



NOTES:

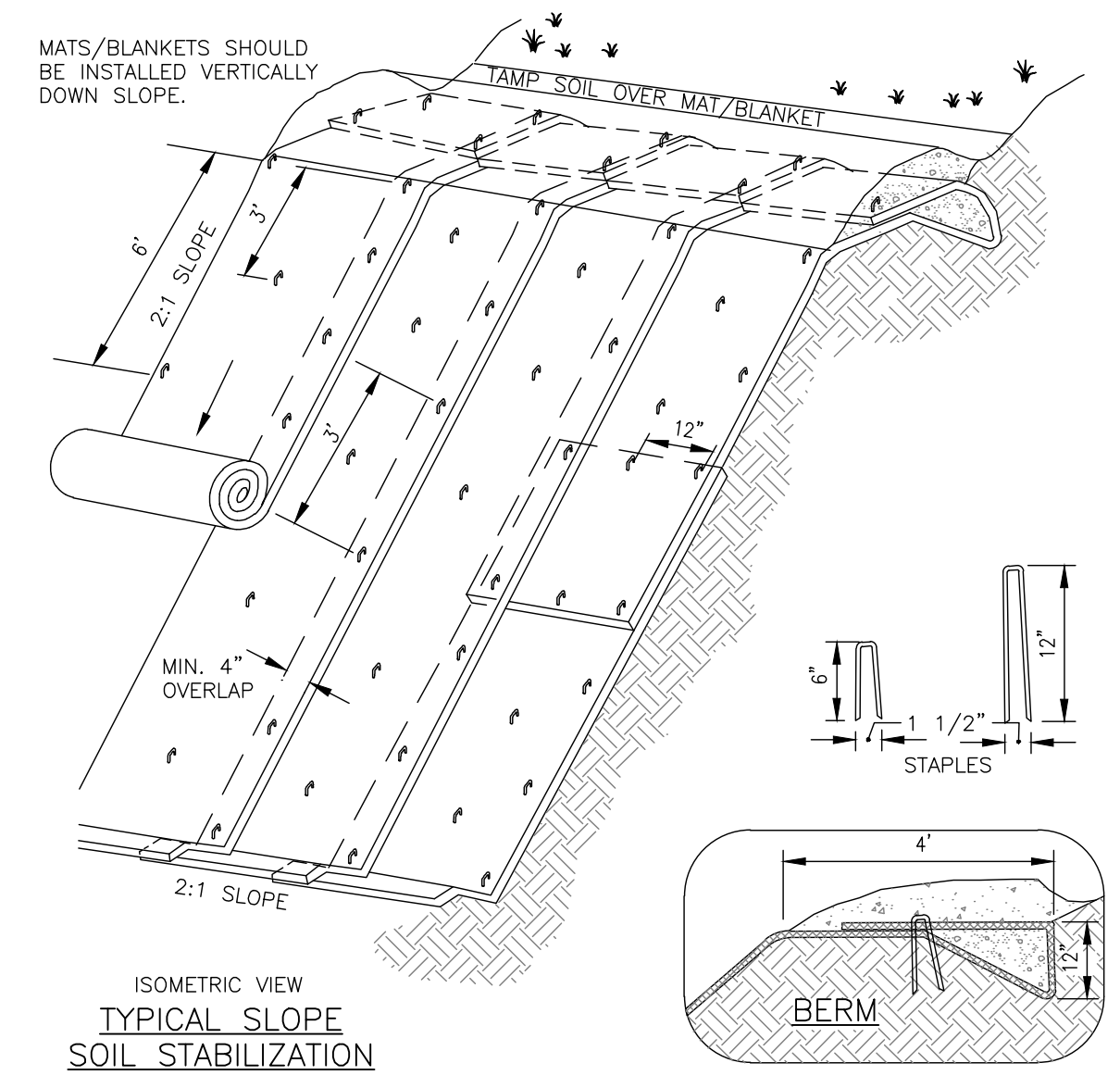
1. SUMPS TO BE LOCATED IN YARD BUT SHOULD BE KEPT AS FAR FROM DRAINAGE CHANNELS AND WETLAND AREAS AS PRACTICAL.
2. SUMPS TO BE CLEANED AND WASTE CONCRETE REMOVED AND PROPERLY DISPOSED OF UPON COMPLETION OF WORK.
3. METAL STAKES AND/OR #4 REBAR MUST BE LONG ENOUGH TO PENETRATE 6" OF GRAVEL AND ANCHOR INTO UNDERLYING ASPHALT.

CONCRETE WASHOUT (BERM TYPE)
NOT TO SCALE



- NOTES:**
1. FILTER SOCK SHALL BE FILTREXX SOXX OR APPROVED EQUAL.
 2. FILTER MEDIA TO MEET APPLICATION REQUIREMENTS.
 3. COMPOST MATERIAL TO BE DISPERSED ONSITE UPON FILTER SOCK REMOVAL.

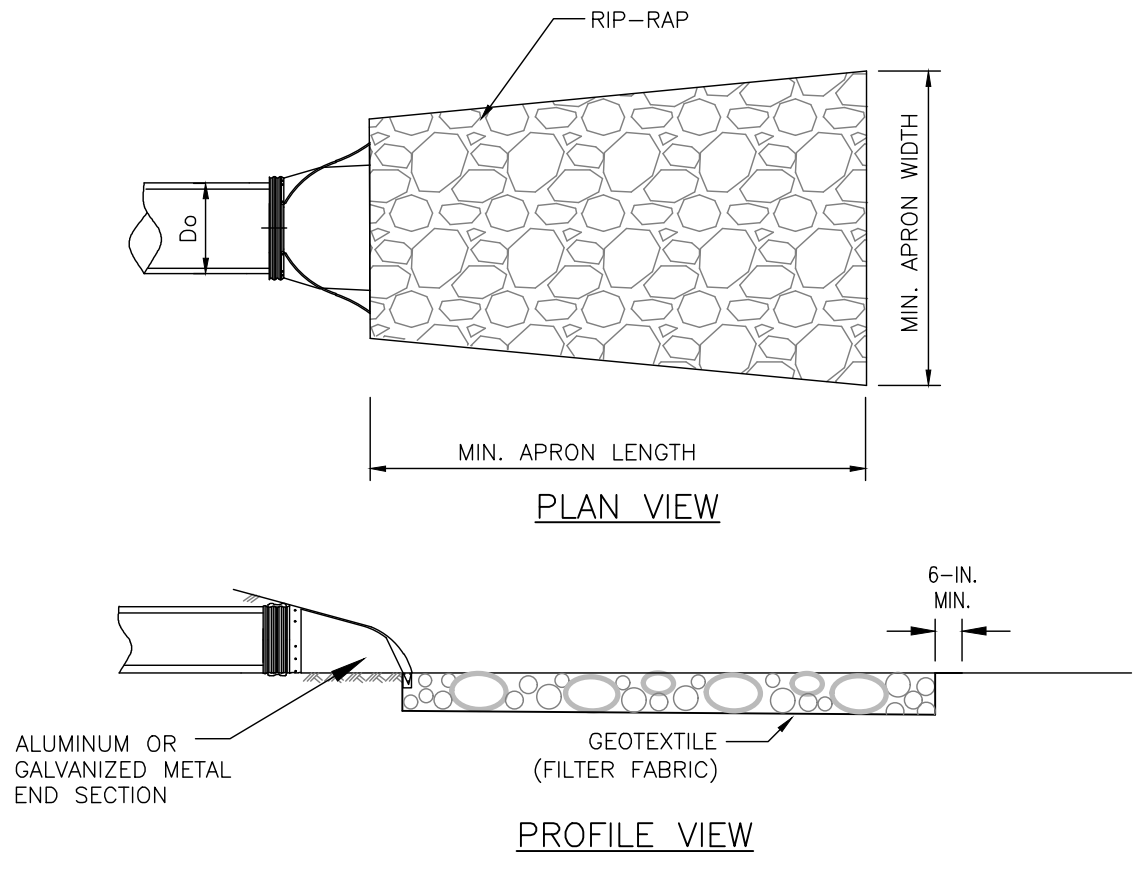
FILTER SOCK - OPTIONAL REPLACEMENT TO SILT FENCE
NOT TO SCALE



NOTES:

1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
2. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
3. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

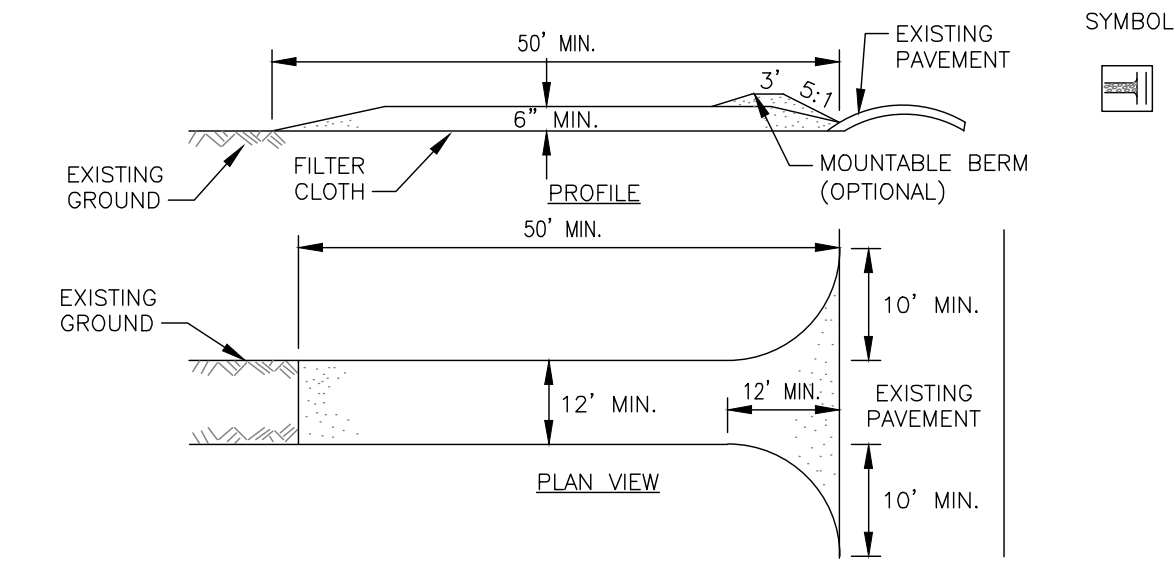
EROSION BLANKETS SLOPE INSTALLATION
NOT TO SCALE



NOTE: REFER TO TABLE FOR LENGTH, WIDTH, AND DEPTH OF RIP-RAP

OUTLET PIPE DIAMETER, D _o (IN)	MINIMUM APRON WIDTH (FT)	MINIMUM APRON LENGTH (FT)	DEPTH OF RIP-RAP (IN)
8	8	8	8
12	3	6	12
18	4	8	18
24	6	12	18
30	8	14	24
36	10	16	24
>36	12	18	30

TYPICAL CULVERT ROCK OUTLET PROTECTION
NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE, AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

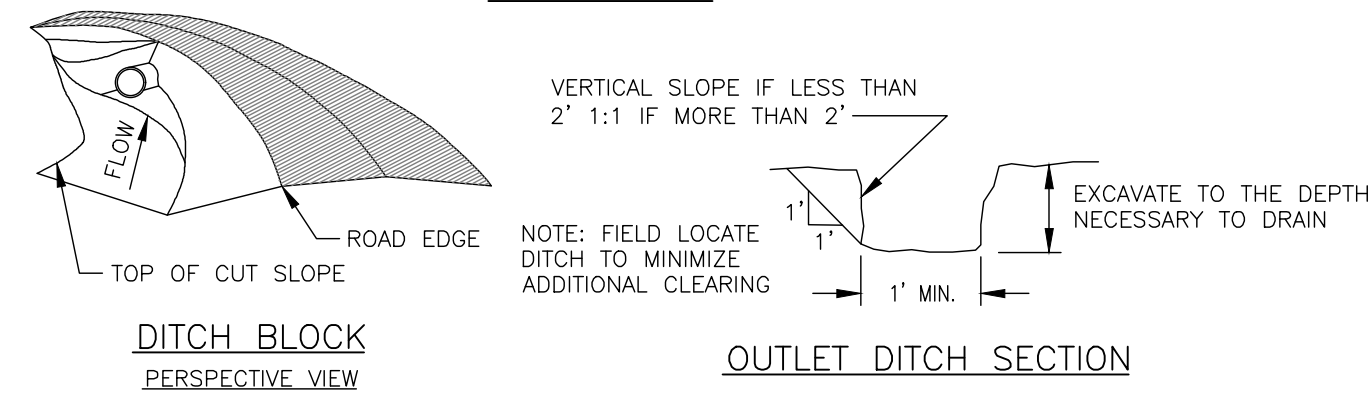
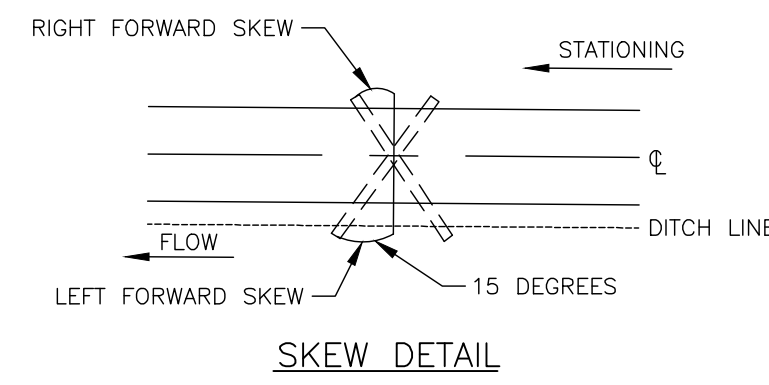
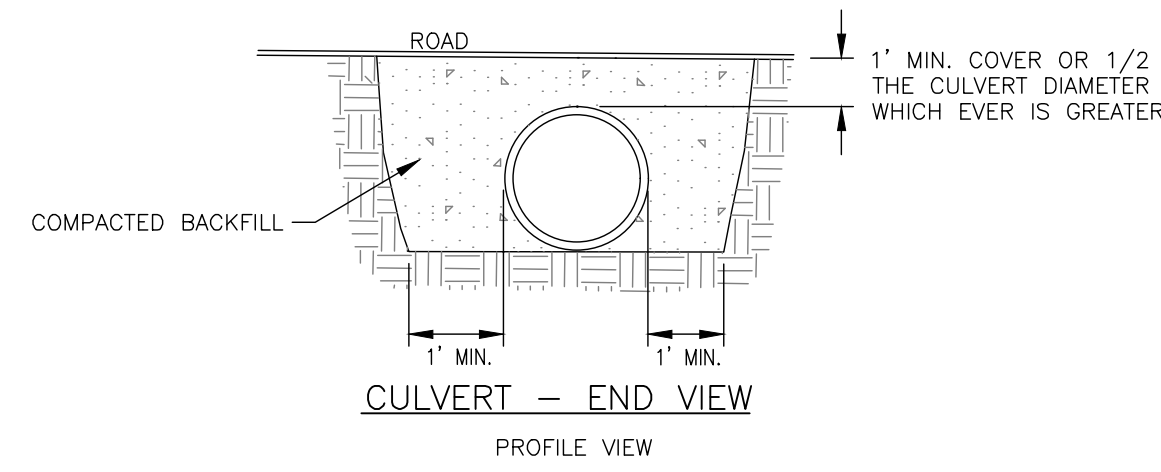
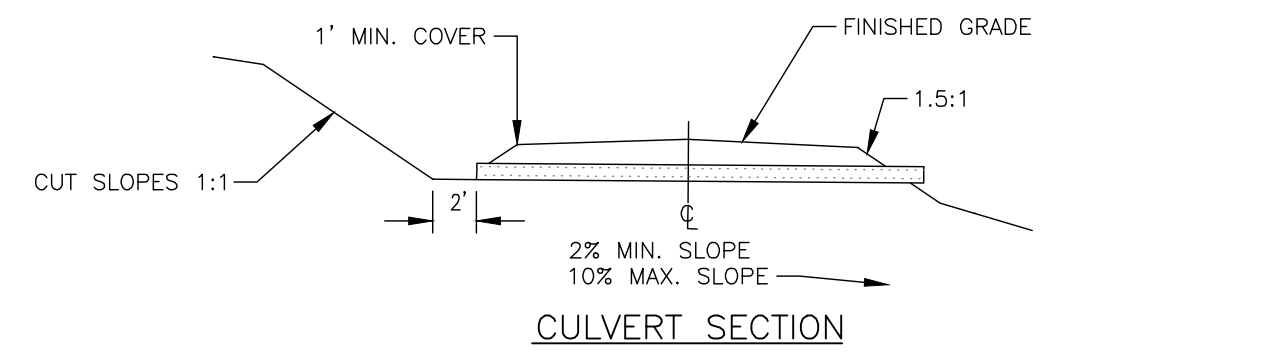
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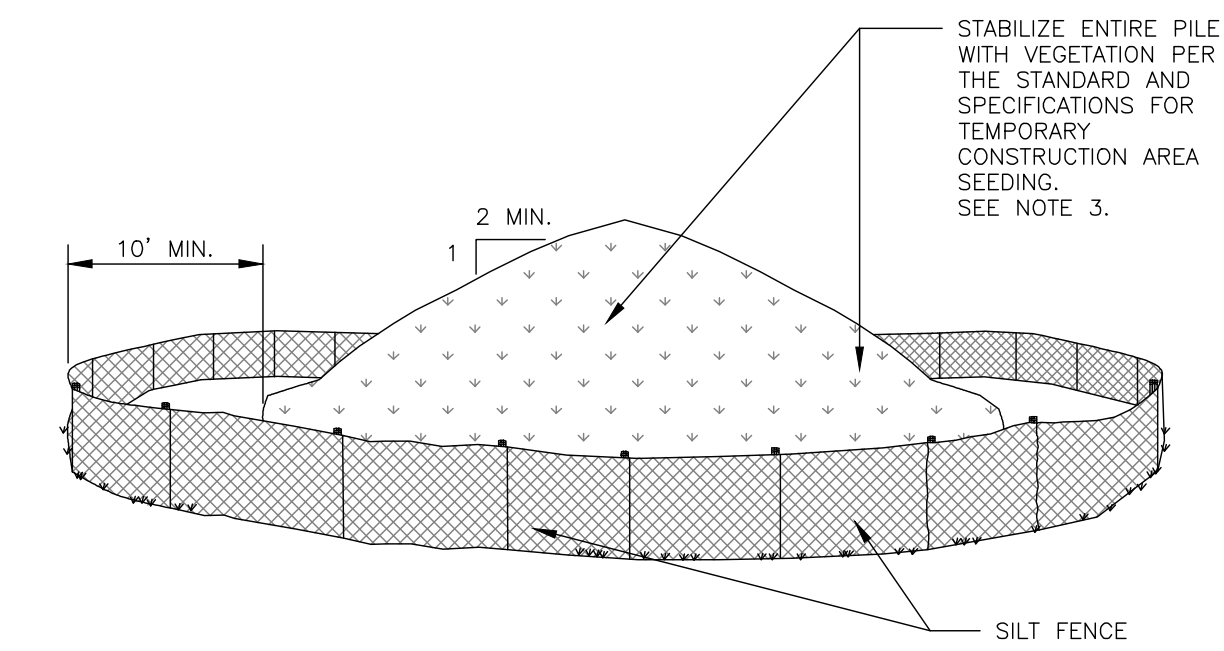
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SCALE	AS SHOWN	DATE	
DRAWN BY	J. TORRES	DATE	
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PROJECT MANAGER	S. MELLOTT	DESCRIPTION	
ISSUE DATE	10/5/2023	DATE	
SCALE	AS SHOWN	DATE	
DRAWN BY	J. TORRES	DATE	
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PROJECT MANAGER	S. MELLOTT	DESCRIPTION	
ISSUE DATE	10/5/2023	DATE	
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PROJECT MANAGER	S. MELLOTT	DESCRIPTION	
ISSUE DATE	10/5/2023	DATE	
SCALE	AS SHOWN	DATE	
DRAWN BY	J. TORRES	DATE	
PROJECT NO.	230529-03	REV	
PROJECT MANAGER	S. MELLOTT	DESCRIPTION	
ISSUE DATE	10/5/2023	DATE	
SCALE	AS SHOWN	DATE	
DRAWN BY	J. TORRES	DATE	

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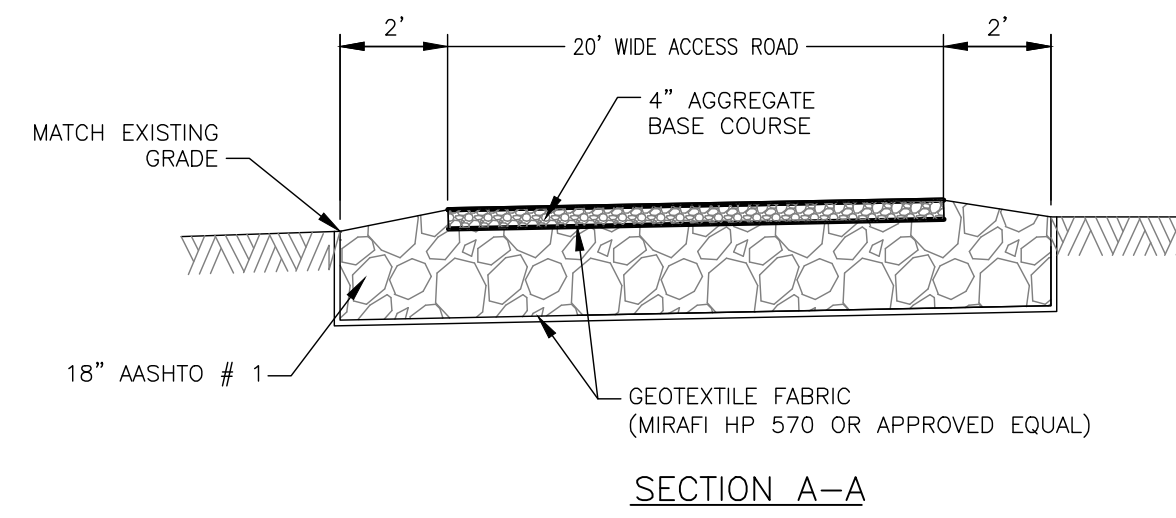
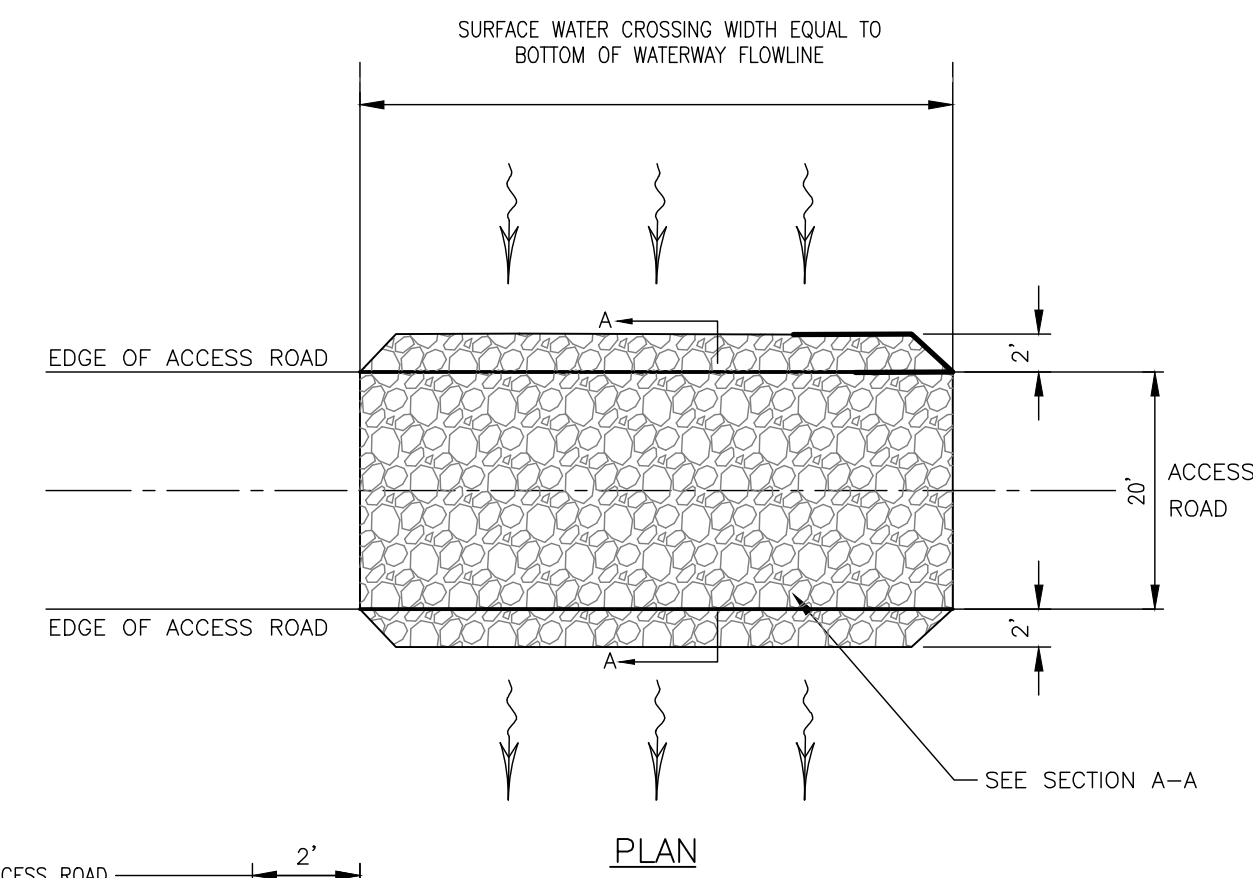


ROAD CULVERT
NOT TO SCALE



- NOTES:**
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY, STABILIZED AND LOCATED AWAY FROM KNOWN WORK AREAS TO PREVENT RELOCATION.
 2. MAXIMUM STOCKPILE HEIGHT SHALL BE 12 FEET.
 3. EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, INSTALLED PER SILT FENCE DETAIL, THEN STABILIZED IN ACCORDANCE WITH THE NYSDEC STANDARD AND SPECIFICATIONS FOR TEMPORARY CONSTRUCTION AREA SEEDING WITHIN 7 DAYS OF COMPLETION.
 4. A PERIMETER DIKE/SWALE SHALL BE LOCATED UP-SLOPE OF THE TOPSOIL STOCKPILE TO DIVERT STORMWATER AROUND THE STOCKPILE.

STABILIZED SOIL STOCKPILE
NOT TO SCALE



- NOTES:**
1. DRAINAGE CROSSING SHALL BE FIELD VERIFIED TO DETERMINE APPROPRIATE USE OF AT GRADE CROSSING OR CULVERT INSTALLATION TO PROVIDE POSITIVE DRAINAGE.
 2. CROSS SLOPE SHALL BE LESS THAN DITCH FLOWLINE SLOPE TO REDUCE WATER VELOCITY.
 3. DRAINAGE CROSSINGS TO BE SET AT GRADE WITH EXISTING GROUND.

AT GRADE SURFACE WATER CROSSING
NOT TO SCALE

REV	DESCRIPTION	DATE	BY
7			
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1			

CONTRACT NO. 230529-03
 FISHER ASSOCIATES
 P.E. L.S. L.A. D.P.C.
 New York State Education Law Section 170(2)(b) requires that the seal of any professional engineer or land surveyor be placed on any drawing or report prepared by the engineer or land surveyor and that the seal of the professional engineer or land surveyor be placed on any drawing or report prepared by the professional engineer or land surveyor.

PROJECT NO. 230529-03
 PROJECT MANAGER S. MELLOTT
 DRAWN BY J. TORRES
 SCALE AS SHOWN
 ISSUE DATE 10/5/2023



PROJECT TOBIN HENRIETTA SOLAR TOWN OF HENRIETTA MONROE, NEW YORK
 TITLE OF DRAWING DETAILS

DRAWING NO. **C-715**
 SHEET 18 OF 17

NOT FOR CONSTRUCTION