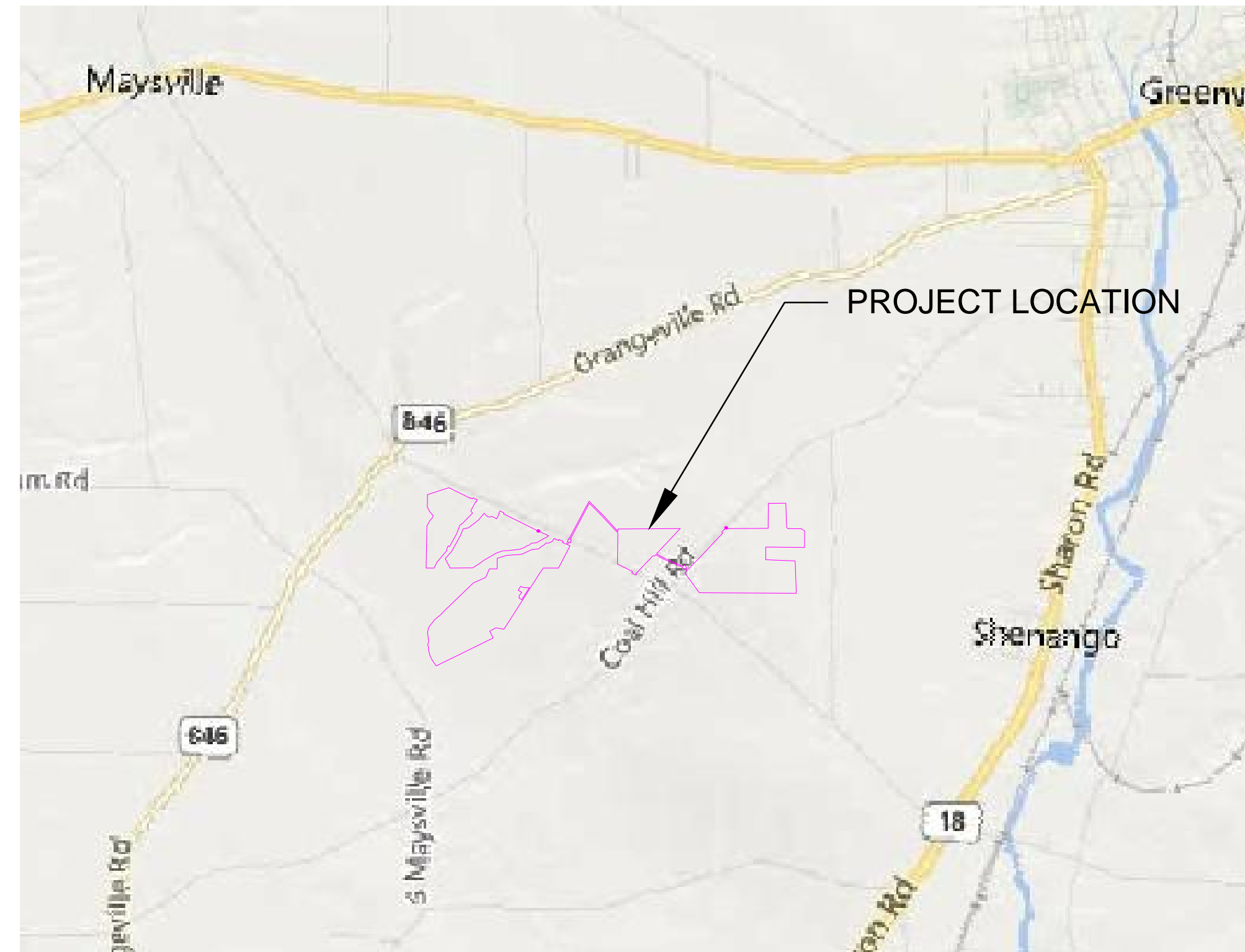


# FINAL LAND DEVELOPMENT PLAN FOR WELCOME SOLAR, LLC WEST SALEM TOWNSHIP, MERCER COUNTY, PENNSYLVANIA

## GENERAL NOTES

1. THE EXISTING 2' CONTOURS UTILIZED IN THIS PLAN SET TO SHOW THE EXISTING GRADE ARE FROM A COMBINATION OF FIELD RUN TOPOGRAPHY AND LIDAR DATA PUBLISHED BY PA MAP PROGRAM, PA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES, BUREAU OF TOPOGRAPHIC AND GEOLOGIC SURVEY (PA DCNR BIOS). FIELD RUN TOPOGRAPHIC SURVEY WAS PERFORMED BY FISHER ASSOCIATES IN JUNE 2020.
2. PROPERTY BOUNDARIES, LANDOWNER INFORMATION SHOWN ARE BASED ON A BOUNDARY SURVEY PERFORMED BY FISHER ASSOCIATES IN JUNE 2020.
3. EXISTING STRUCTURES, TREE LINES AND ROADWAYS HAVE BEEN LOCATED BY A COMBINATION OF FIELD RUN TOPOGRAPHY AND PER AVAILABLE ONLINE AERIAL PHOTOGRAPHY PUBLISHED BY PA MAP PROGRAM, PA DCNR, WIGS.
4. THE HORIZONTAL DATUM IS PENNSYLVANIA STATE PLANE, NORTH AMERICAN DATUM 1983 (NAD 83), NORTH ZONE WHICH ORIGINATES FROM THE LIDAR DATA AND NOT FIELD RUN TOPOGRAPHIC SURVEY.
5. THE VERTICAL DATUM IS PENNSYLVANIA STATE PLANE, NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88) WHICH ORIGINATES FROM THE LIDAR DATA AND WAS FIELD VERIFIED BY THE FIELD RUN TOPOGRAPHIC SURVEY.
6. THE UTILITIES SHOWN ON THIS PLAN ARE FOR REFERENCE PURPOSES ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXACT LOCATION PRIOR TO ANY EXCAVATION BY NOTIFYING THE PENNSYLVANIA ONE CALL SYSTEM AT LEAST THREE (3) DAYS IN ADVANCE BY CALLING 800-242-1776.
7. THE WETLANDS SHOWN ON THIS PLAN WERE DELINEATED BY FISHER ASSOCIATES IN JUNE 2020 AND ARE FIELD LOCATED IN NAD 83 DATUM.
8. ALL EROSION AND SEDIMENTATION CONTROL CONSTRUCTION SHALL BE IN ACCORDANCE WITH INSTALLATION MATERIALS AND SPECIFICATIONS OF PADEP CHAPTER 102 REGULATIONS.
9. ALL EXISTING UTILITIES HAVE BEEN SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION.
10. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL ABOVE AND BELOW GROUND UTILITIES AND STRUCTURES AND WILL BE RESPONSIBLE FOR THE PROTECTION OF THESE UTILITIES AND STRUCTURES AT ALL TIMES.
11. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE AND ANY DAMAGE ON THE CONTRACTORS NEGLIGENCE SHALL BE REPAIRED IMMEDIATELY AND COMPLETELY AT HIS EXPENSE.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF DAMAGED OR DESTROYED LANDSCAPE AND LAWNS.
13. THE LOCATIONS AND DIMENSIONS SHALL BE STRICTLY ADHERED TO UNLESS OTHERWISE DIRECTED BY THE LOCAL JHA. PLAN CHANGES, SHOULD THEY BE REQUIRED, ME SUBJECT TO LOCAL JHA APPROVAL.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A COPY OF ALL PERMITS RELATED TO THE CONSTRUCTION SHOWN ON THESE PLANS ON THE JOB SITE AT ALL TIMES.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC SAFETY AS MANDATED BY PENNDOT, OSHA, PADEP AND OTHER AGENCIES.
16. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE PROJECT SITE PRIOR TO THE START OF CONSTRUCTION.
17. EXISTING OIL AND GAS WELLS SHOWN ON THE PLAN WERE FIELD LOCATED AND ANY UNDERGROUND LINES ARE BASED ON PA 1 CALL FLAGGING AND THE CONTRACTOR SHALL FIELD VERIFY THOSE LOCATIONS PRIOR TO EXCAVATION NEAR THEM.
18. UTILITY EXCAVATIONS SHALL BE OPENED ONLY LONG ENOUGH TO PROPERLY INSTALL AND INSPECT ALL UNDERGROUND FACILITIES IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS.
19. NO DISTURBANCE IS PERMITTED WITHIN THE WETLAND AREA. ALL WETLAND AREAS SHALL BE MARKED OFF AND PROTECTED DURING CONSTRUCTION.
20. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS. MONUMENTS AND SURVEY MARKERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
21. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRAFFIC AND TRAFFIC CONTROL DEVICES DURING CONSTRUCTION.
22. ACCESS TO THIS PARCEL FROM S.R. 4002 AND S.R. 4003 WILL REQUIRE A HIGHWAY OCCUPANCY PERMIT(S) ISSUED BY THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION, PURSUANT TO SECTION 420 OF THE PENNSYLVANIA ACT OF JUNE 1, 1945 (P.L. 1242 NO. 428), KNOWN AS THE "STATE HIGHWAY LAW", BEFORE ACCESS TO A STATE HIGHWAY IS PERMITTED.
23. THE PROPOSED 20' ACCESS DRIVE IMPACTS/CROSSES STREAMS. NO IN-STREAM WORK IS ALLOWED FROM OCTOBER 1 THROUGH DECEMBER 31. GENERAL PERMIT DRAWINGS HAVE BEEN PREPARED TO ADDRESS THE CHAPTER 105 REGULATIONS.
24. NO FILL OR WASTE MATERIAL SHALL BE STORED WITHIN 50' OF TOP OF STREAM BANK.



SCALE 1" = 2,000'

**FINAL SUBMISSION  
ISSUED DATE  
ON 08/13/2021**

### APPLICANT:

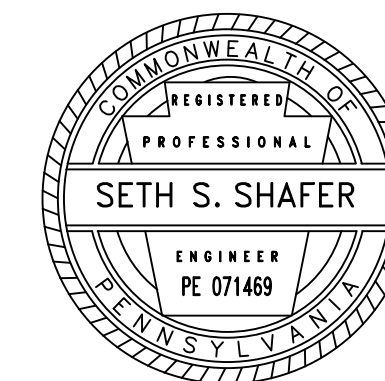
WELCOME SOLAR, LLC  
5000 HOPYARD ROAD  
SUITE 302  
PLEASANTON, CA 94588

PREPARED BY:

**FISHER ASSOCIATES**

WWW.FISHERASSOC.COM

400 Southpointe Blvd Suite 105, Canonsburg, PA 15317  
Phone: 724-749-1203



## INDEX OF SHEETS

SHEET NAME	SHEET CLASSIFICATION(S)	SHEET NUMBER(S)
COVER SHEET	GN-00	1
INDEX SHEET/LEGEND	GN-01	2
EXISTING SITE PLANS	EX-01 TO EX-12	3 TO 14
PROPOSED SITE PLANS	C-01 TO C-12	15 TO 26
GRADING PLANS	G-00 TO G-06	27 TO 33
EASEMENT PLANS	ESMT-01 TO ESMT-04	34 TO 37
DETAILS	D-01 TO D-03	38 TO 40

## LAND OWNERS:

FIRST NAME:	LAST NAME:	PARCEL NUMBER:	PARCEL ACREAGE:
LUCINDA M AND ARTHUR L	WERGER	31-068-012	122.701 ACRES
LUCINDA M AND ARTHUR L	WERGER	31-068-015	71.629 ACRES
ZACHARY P	HAWKINS	31-068-040	94.117 ACRES

## FINAL PERMITS

- GENERAL NPDES PERMIT #: PAC430049/ ISSUED ON 6-8-2021/ EXPIRES 12-7-2024
- PASPGP-5 DEP AUTHORIZATION #: GP054300221-003/ ISSUED ON 6-8-2021/ EXPIRES 6-8-2026

## PA ONE CALL UNDERGROUND UTILITY PROTECTION ACT

FISHER ASSOCIATES HEREBY STATES THAT, PURSUANT TO THE PROVISIONS OF ACT NO. 287 OF 1974, AS AMENDED BY ACT 187 OF 1998, AND ACT 181 OF 2008 OF THE PENNSYLVANIA LEGISLATURE, IT HAS PERFORMED THE FOLLOWING IN PREPARING THESE DRAWINGS REQUIRING EXCAVATION OR DEMOLITION WORK AT SITES WITHIN THE POLITICAL SUBDIVISION(S) SHOWN ON THE DRAWINGS:

- PURSUANT TO SECTION 4, CLAUSE (2) OF SAID ACT, FISHER ASSOCIATES REQUESTED FROM EACH USER'S OFFICE DESIGNATED ON SUCH UST PROVIDED BY THE ONE CALL SYSTEM NOTIFICATION, THE INFORMATION PRESCRIBED BY SECTION 2, CLAUSE (4) OF SAID ACT, NOT LESS THAN (10) NOR MORE THAN (90) WORKING DAYS BEFORE FINAL DESIGN IS TO BE COMPLETED.
- PURSUANT TO SECTION 4, CLAUSE (5) OF SAID ACT, FISHER ASSOCIATES HAS MET THEIR OBLIGATIONS OF CLAUSE (2) BY CALLING THE ONE CALL STORM SERVING THE LOCATION WHERE EXCAVATION IS TO BE PERFORMED.
- PURSUANT TO SECTION 4, CLAUSE (3) OF SAID ACT, FISHER ASSOCIATES HAS SHOWN UPON THESE DRAWINGS "THE POSITION AND TYPE OF EACH LINE, AS DERIVED PURSUANT TO THE REQUEST MADE AS REQUIRED BY CLAUSE (2). THE SERIAL NUMBER PROVIDED BY THE ONE CALL STSILM, THE TOLL-FREE ONE CALL SYSTEM PHONE NUMBER, AND THE NAME OF THE USER, THE USER'S DESIGNATED OFFICE ADDRESS AND PHONE NUMBER AS SHOWN ON THE UST REFERRED TO IN SECTION 4, CLAUSE (5) OF SAID ACT.

AND FISHER ASSOCIATES DOES NOT MAKE ANY REPRESENTATION, WARRANTY, ASSURANCE OR GUARANTEE THAT THE INFORMATION RECEIVED PURSUANT TO SAID REQUEST AND AS REFLECTED ON THESE DRAWINGS IS CORRECT OR ACCURATE, BUT REA LEW ASSOCIATES, INC. IS REFLECTING SAID INFORMATION ON THESE DRAWINGS ONLY DUE TO THE REQUIREMENTS OF THE SAID ACT NO. 181 OF 2008. ONE CALL SYSTEM SERIAL NO. NOTIFICATION BY FISHER ASSOCIATES.

DATE: 5/1/2020

ONE CALL SYSTEM SERIAL NUMBER: 20201220695, 20201220698



### ACKNOWLEDGMENT BOX

STATE OF PENNSYLVANIA  
COUNTY OF MERCER  
BEFORE ME THE SUBSCRIBER A \_\_\_\_\_ IN AND FOR THE SAID COUNTY AND STATE PERSONALLY APPEARED \_\_\_\_\_ AND ACKNOWLEDGE THE BELOW. WITNESS MY HAND SEAL THIS \_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_.

SIGNATURE \_\_\_\_\_

I, UNDERSIGNED HERBY DECLARE THAT I AM THE OWNER OF THE LAND SHOWN HEREON AND WISH IT TO BE RECORDED AS SUCH.

SIGNATURE \_\_\_\_\_

I HEREBY CERTIFY THAT THE TRACT SHOWN HEREON IS A TRUE AND ACCURATE SURVEY.

SIGNATURE \_\_\_\_\_

PLAN IS NULL AND VOID UNLESS RECORDED BY \_\_\_\_\_  
NO DEEDS MAY BE TRANSFERRED UNTIL PLAN IS RECORDED.

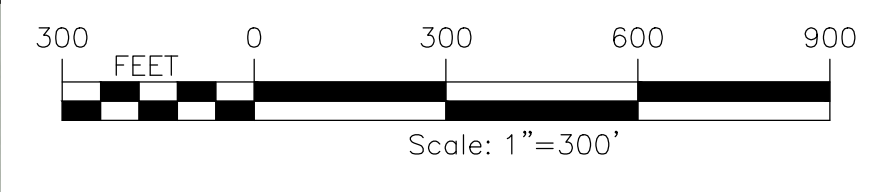
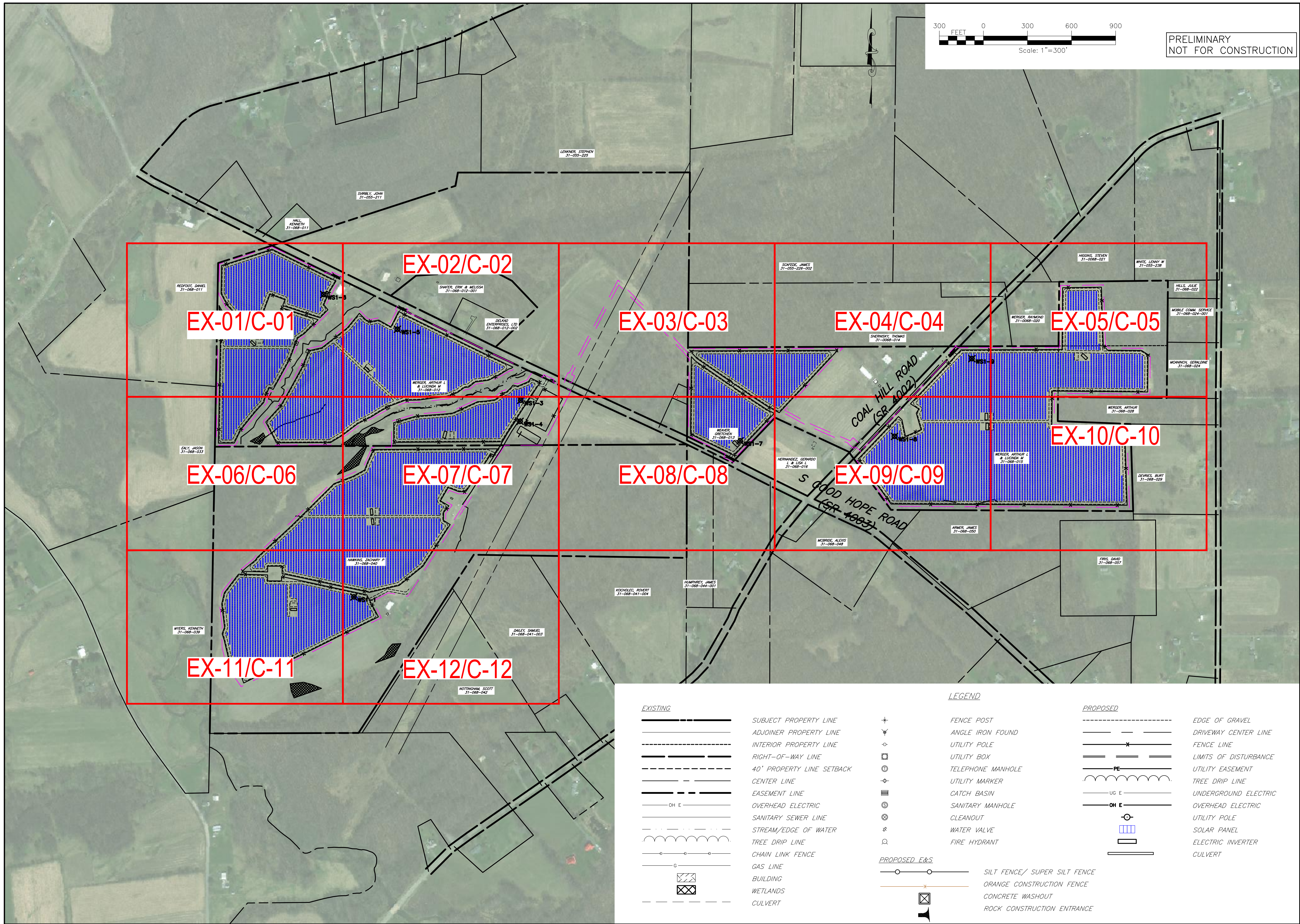
DATE OF ACTION: \_\_\_\_\_ BOARD OF \_\_\_\_\_ DATE OF APPROVAL: \_\_\_\_\_  
TOWNSHIP SUPERVISORS (ALL CONDITIONS MET)

CHAIRMAN \_\_\_\_\_ SECRETARY \_\_\_\_\_

APPROVED: \_\_\_\_\_ DATE OF APPROVAL: \_\_\_\_\_  
MERCER COUNTY REGIONAL PLANNING COMMISSION

CHAIRMAN \_\_\_\_\_ SECRETARY \_\_\_\_\_

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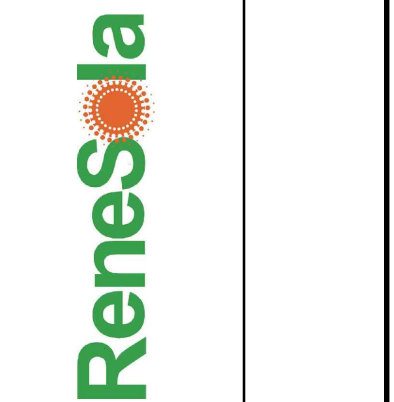


PRELIMINARY  
NOT FOR CONSTRUCTION

EXISTING		LEGEND		PROPOSED	
	SUBJECT PROPERTY LINE		FENCE POST		EDGE OF GRAVEL
	ADJOINER PROPERTY LINE		ANGLE IRON FOUND		DRIVEWAY CENTER LINE
	INTERIOR PROPERTY LINE		UTILITY POLE		FENCE LINE
	RIGHT-OF-WAY LINE		UTILITY BOX		LIMITS OF DISTURBANCE
	40' PROPERTY LINE SETBACK		TELEPHONE MANHOLE		UTILITY EASEMENT
	CENTER LINE		UTILITY MARKER		TREE DRIP LINE
	EASEMENT LINE		CATCH BASIN		UNDERGROUND ELECTRIC
	OVERHEAD ELECTRIC		SANITARY MANHOLE		OVERHEAD ELECTRIC
	SANITARY SEWER LINE		CLEANOUT		UTILITY POLE
	STREAM/EDGE OF WATER		WATER VALVE		SOLAR PANEL
	TREE DRIP LINE		FIRE HYDRANT		ELECTRIC INVERTER
	CHAIN LINK FENCE				CULVERT
	GAS LINE				
	BUILDING				
	WETLANDS				
	CULVERT				
		<b>PROPOSED E&amp;S</b>			
			SILT FENCE/ SUPER SILT FENCE		
			ORANGE CONSTRUCTION FENCE		
			CONCRETE WASHOUT		
			ROCK CONSTRUCTION ENTRANCE		

PROJECT	WELCOME SOLAR, LLC WEST SALEM TOWNSHIP MERCER COUNTY, PA	TITLE OF DRAWING	INDEX PLAN
FA PROJECT NO.	200251	PROJECT MANAGER	S. SHAFER
DRAWN BY	KO	SCALE	AS SHOWN
ISSUE DATE	08/07/2020		
REV	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3	FINAL PLANS TO MCRPC	8/13/2021	JEC
2	MERCER CCD TDL COMMENTS	4/16/2021	JML
1	TWP. & CO. REVIEW COMMENTS	12/30/2020	JEC

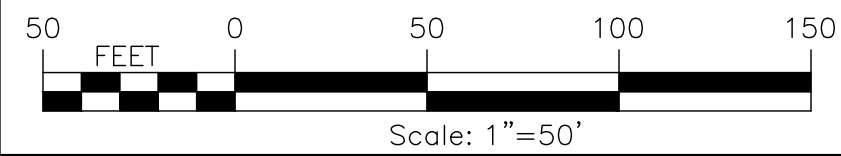
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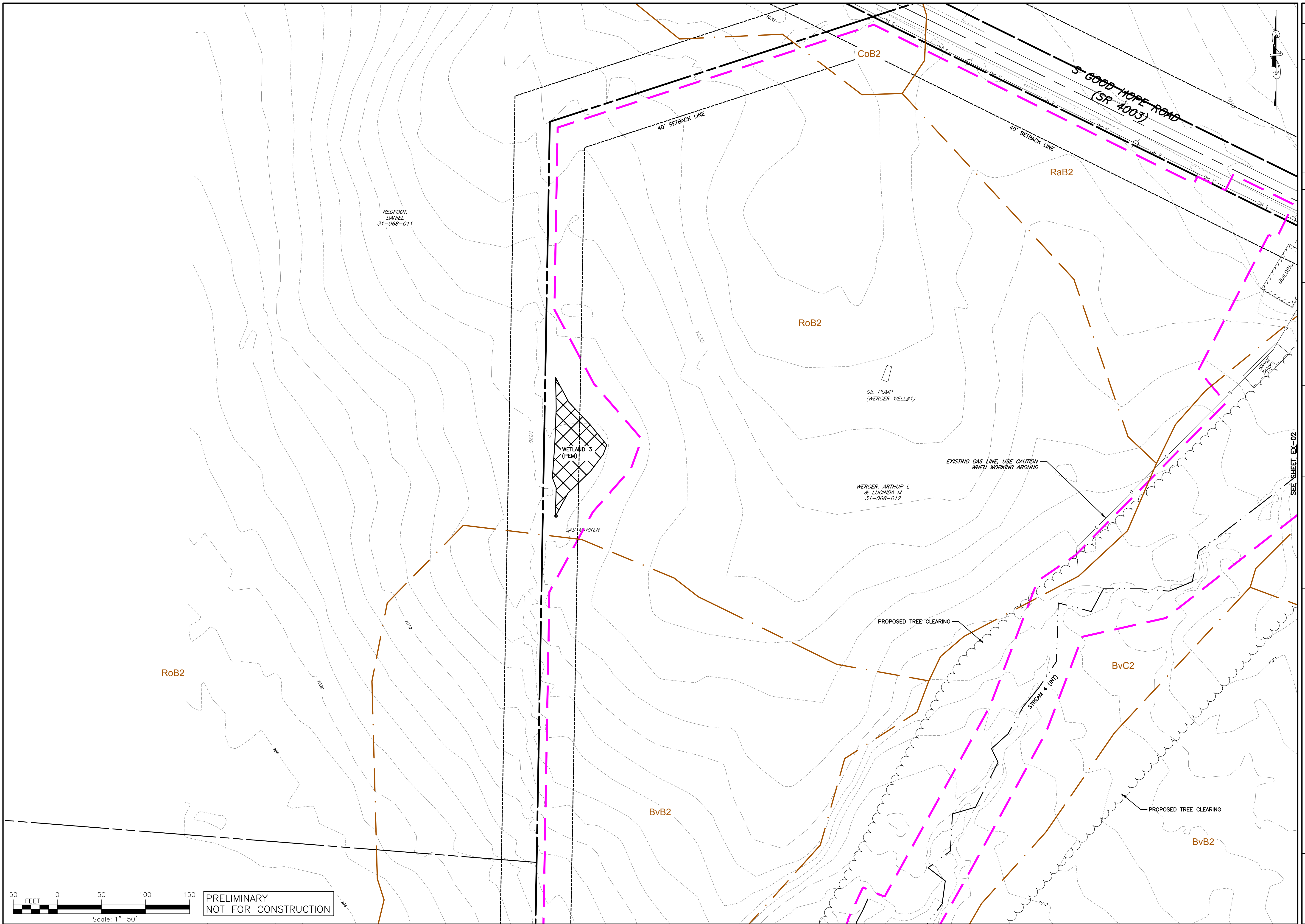
PROJECT: WELCOME SOLAR, LLC  
 WEST SALEM TOWNSHIP  
 MERCER COUNTY, PA

DRAWING NO.  
**GN-01**  
 SHEET 02 OF 40

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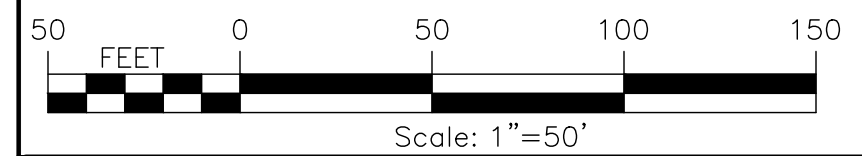
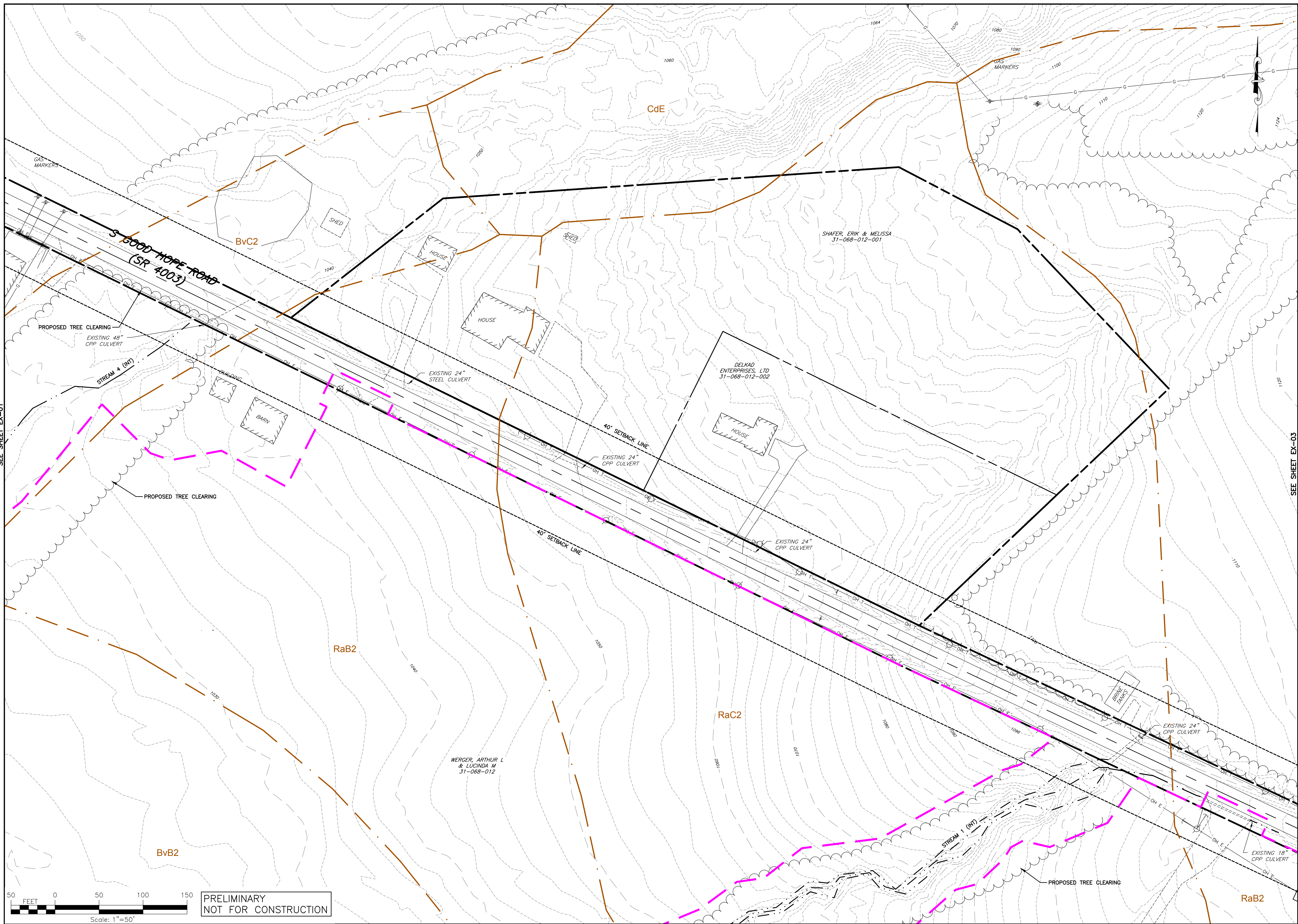


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PROJECT WELCOME SOLAR, LLC WEST SALEM TOWNSHIP MERCER COUNTY, PA		PROJECT NO. 200251		PROJECT MANAGER S. SHAFER		DRAWN BY J. LOEWER		SCALE AS SHOWN		ISSUE DATE 08/07/2020	
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SHEET 03 OF 40		SEE SHEET EX-06		SEE SHEET EX-02		SEE SHEET EX-01		SEE SHEET EX-03		SEE SHEET EX-04	

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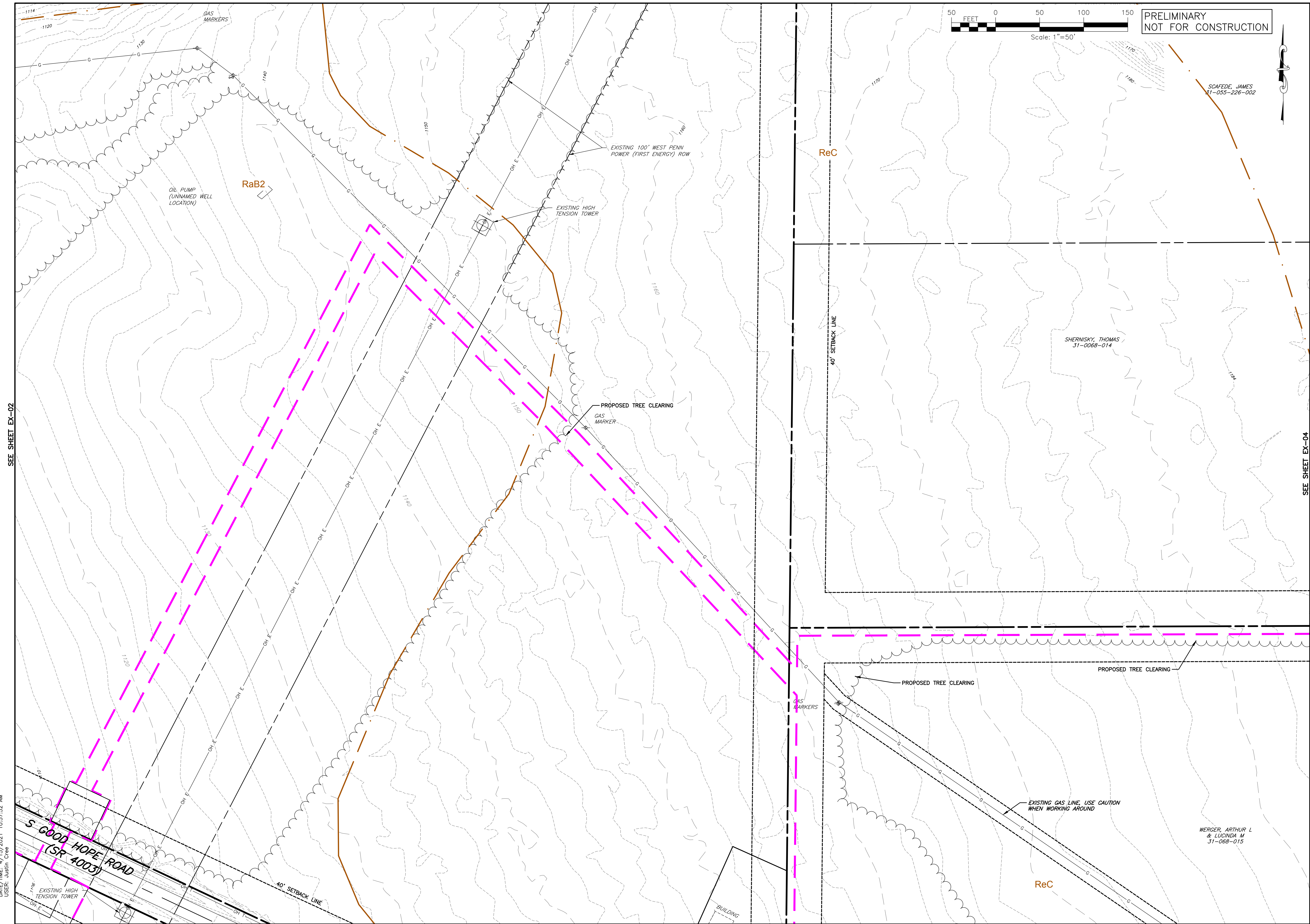


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SEE SHEET EX-07

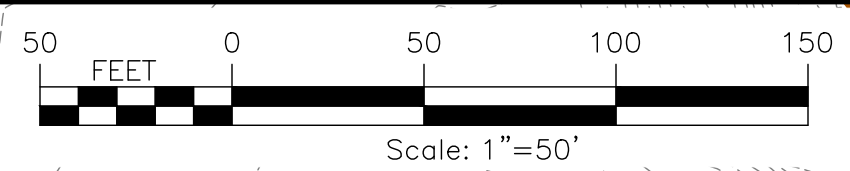
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FA PROJECT NO. 200251	PROJECT MANAGER S. SHAFER	DRAWN BY J. LOEWER	SCALE AS SHOWN	
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3		FINAL PLANS TO MCRPC	8/13/2021	JEC
2		MERCER CCD TDL COMMENTS	4/16/2021	JML
1		TWP. & CO. REVIEW COMMENTS	12/30/2020	JEC

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SEE SHEET EX-02

SEE SHEET EX-04



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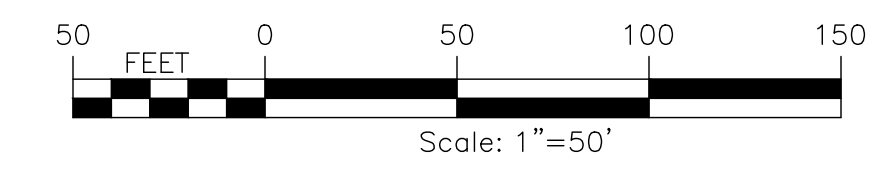
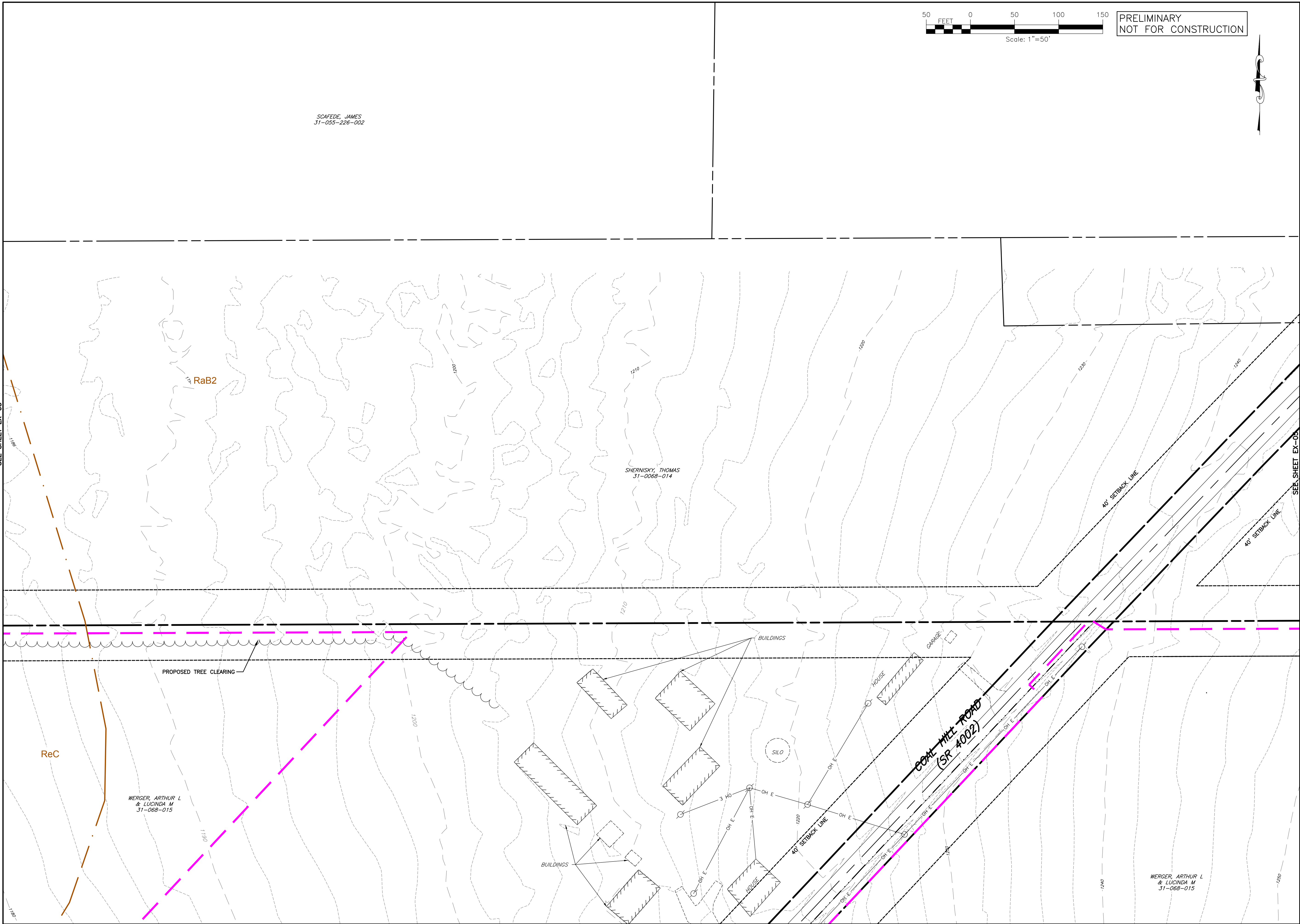
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DRAWN BY J. LOEWER		SCALE AS SHOWN		DESCRIPTION DATE BY	
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DRAWN BY J. LOEWER		SCALE AS SHOWN		MERCER CCD TDL COMMENTS 4/16/2021 JML	
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PROJECT  
 WELCOME SOLAR, LLC  
 WEST SALEM TOWNSHIP  
 MERCER COUNTY, PA

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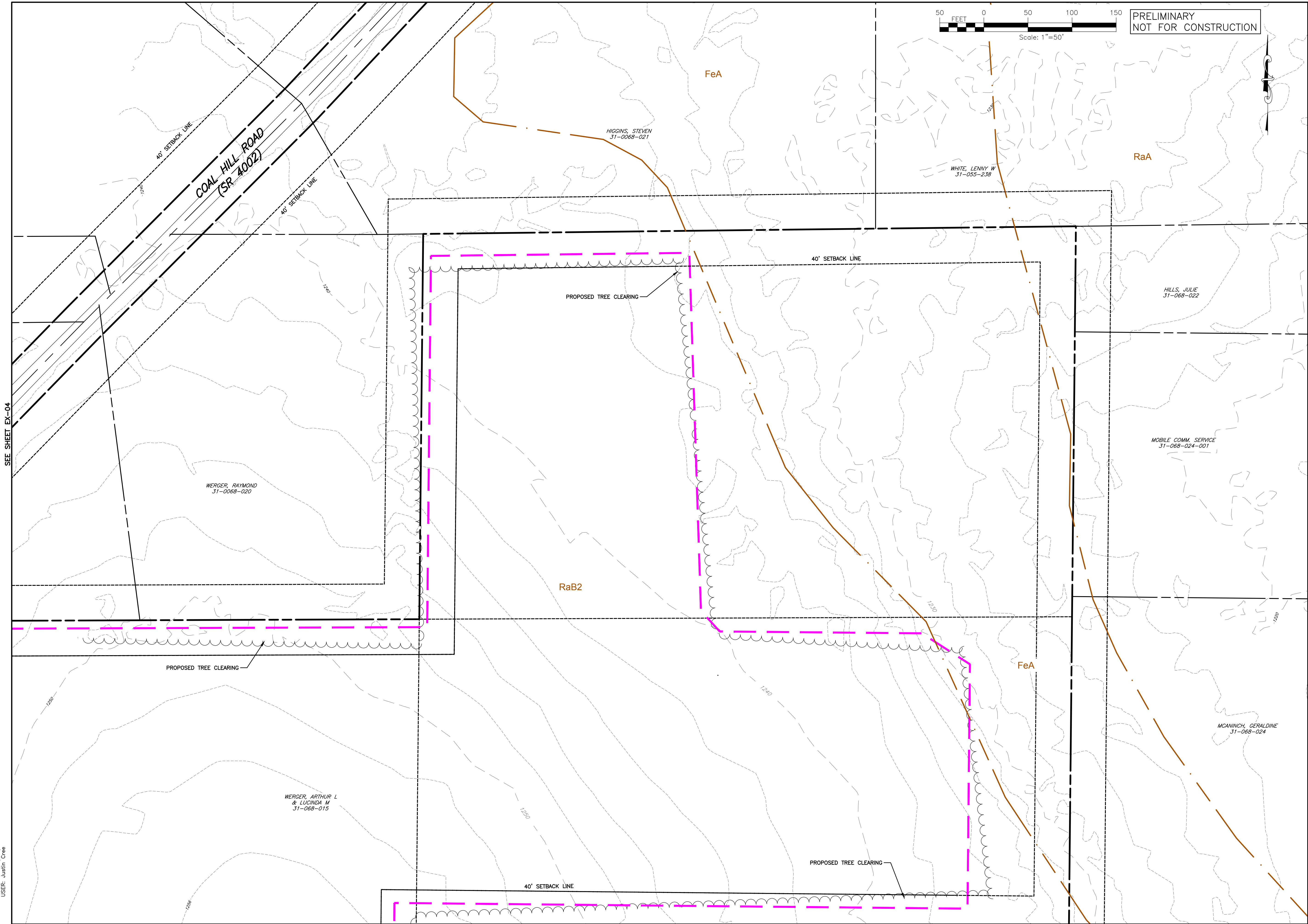


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SCAFFE, JAMES  
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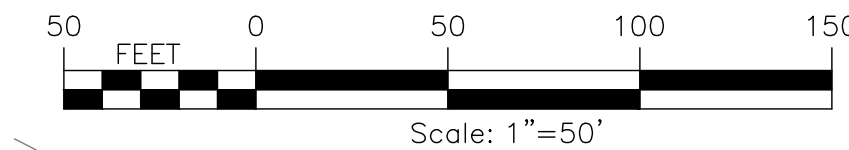
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DRAWN BY J. LOEWER		ISSUE DATE 08/07/2020	
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2		MERCER CCD TDL COMMENTS	4/16/2021
1		TWP. & CO. REVIEW COMMENTS	12/30/2020
			JEC
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			JEC
			BY

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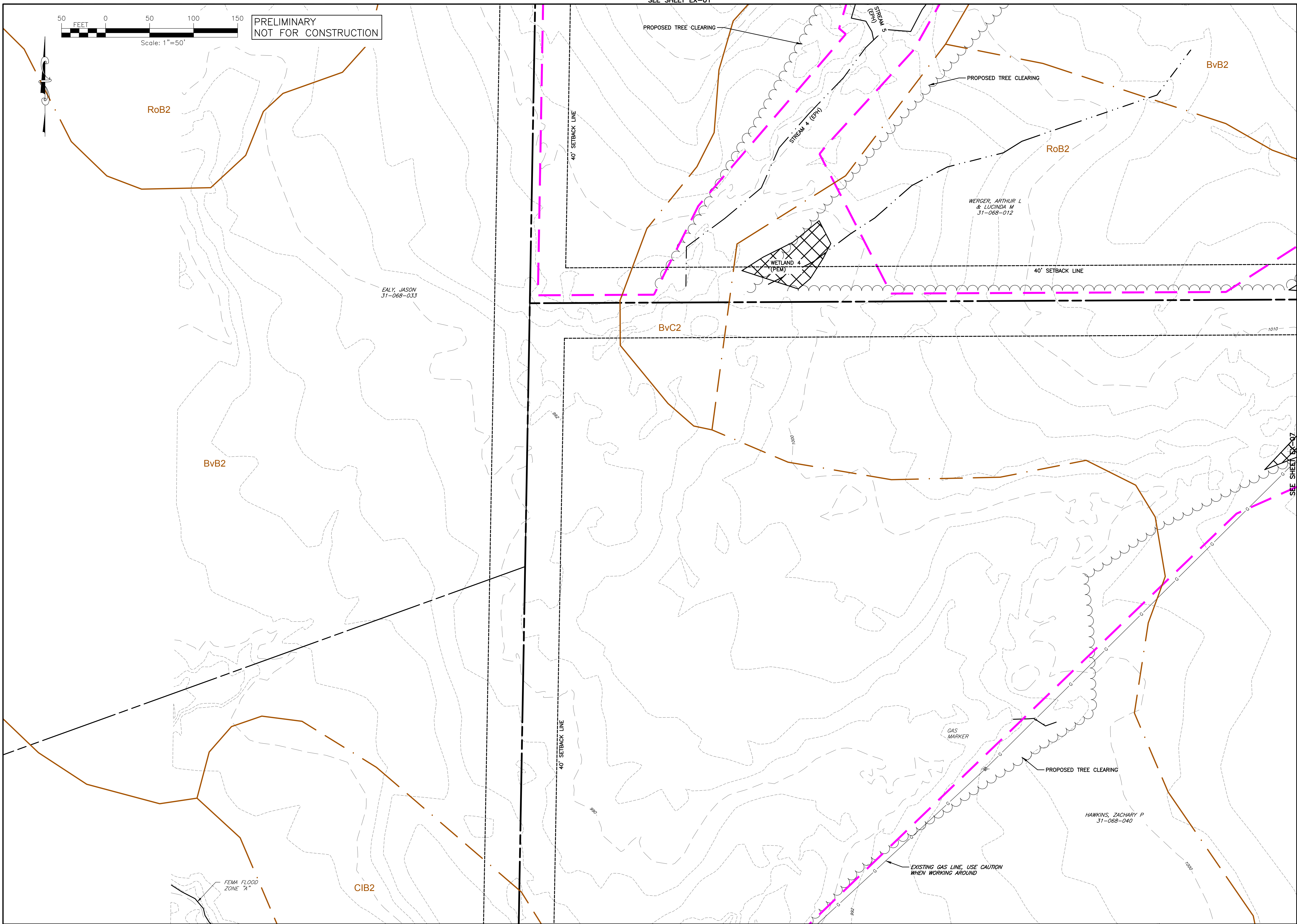
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FA PROJECT NO. <b>200251</b> PROJECT MANAGER <b>S. SHAFER</b> DRAWN BY <b>J. LOEWER</b> SCALE <b>AS SHOWN</b>		ISSUE DATE <b>08/07/2020</b>		COPYRIGHT © 2020 FISHER ASSOCIATES, P.E.L.L.A./D.P.C. The contents of this document are not to be used for any purpose other than that for which they were prepared without the written permission of Fisher Associates, Inc. or its affiliates and named client only.		REV 1 TWP. & CO. REVIEW COMMENTS 12/30/2020 JEC		REV 2 MERCER CCD TDL COMMENTS 4/16/2021 JML		REV 3 FINAL PLANS TO MCRPC 8/13/2021 JEC		REV 4 DATE 4/16/2021	

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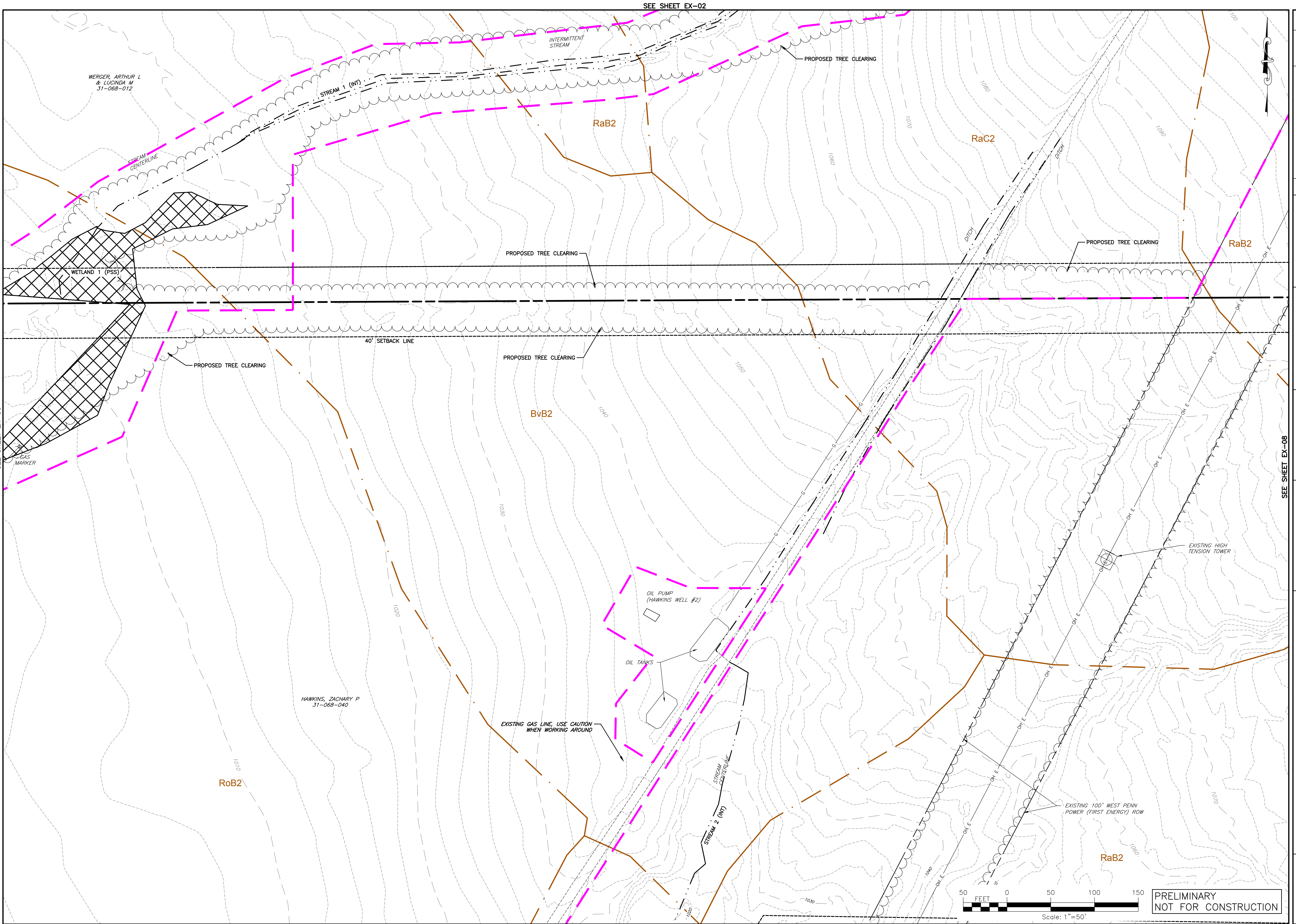
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 FISHER ASSOCIATES WWW.FISHERASSOC.COM		 RENE SOLA	
PROJECT: WELCOME SOLAR, LLC WEST SALEM TOWNSHIP MERCER COUNTY, PA		TITLE OF DRAWING: EXISTING CONDITIONS PLAN	
DRAWING NO. <b>EX-06</b>		SHEET 08 OF 40	
FA PROJECT NO. 200251	PROJECT MANAGER S. SHAFER	DRAWN BY J. LOEWER	ISSUE DATE 08/07/2020
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1	TWP. & CO. REVIEW COMMENTS		12/30/2020 JEC

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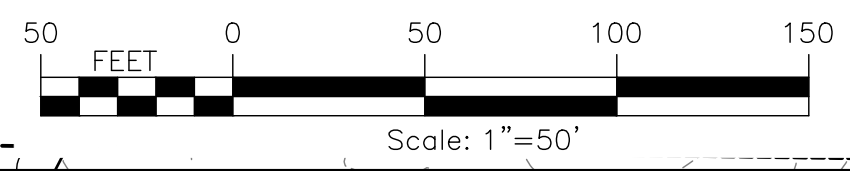


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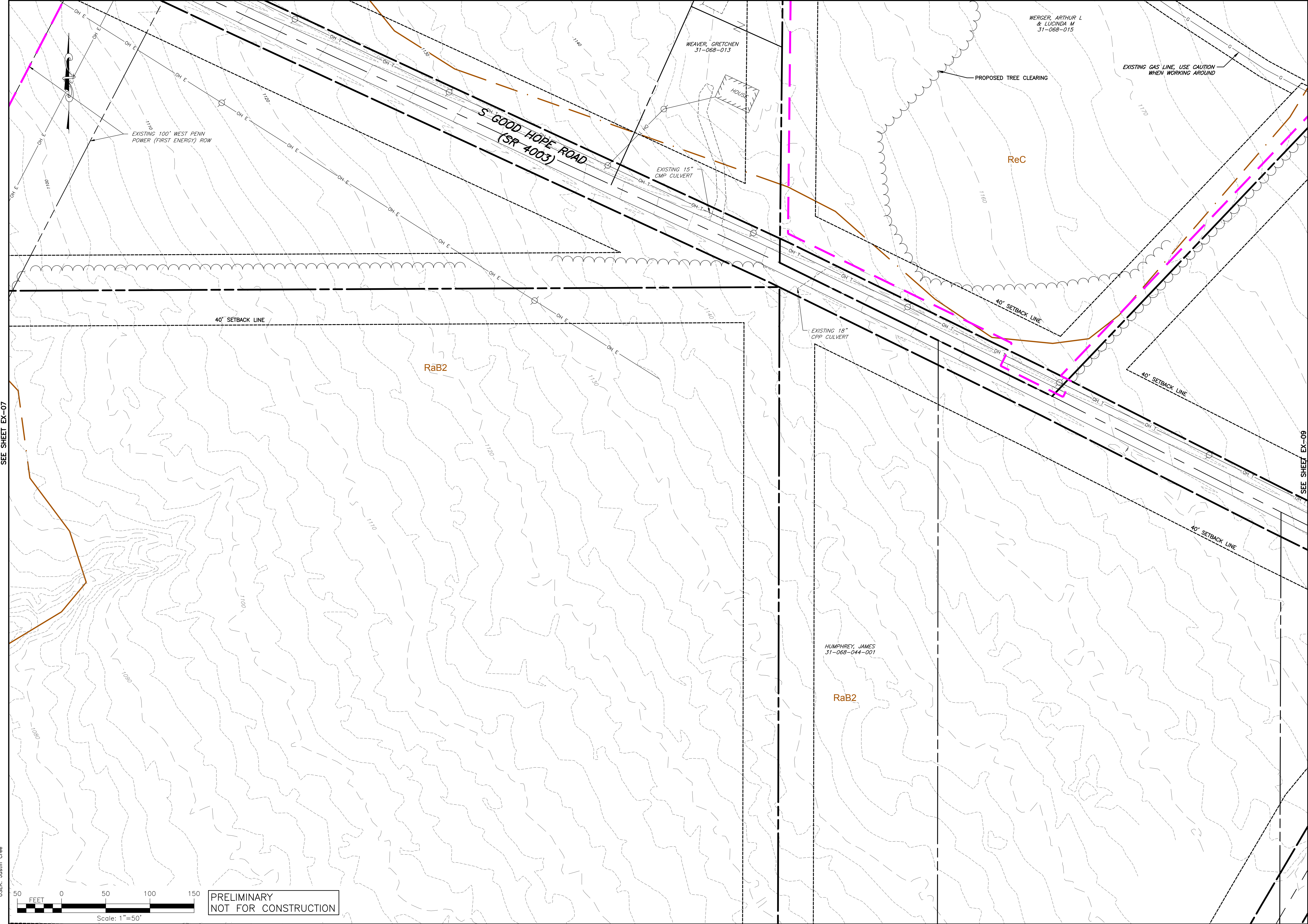
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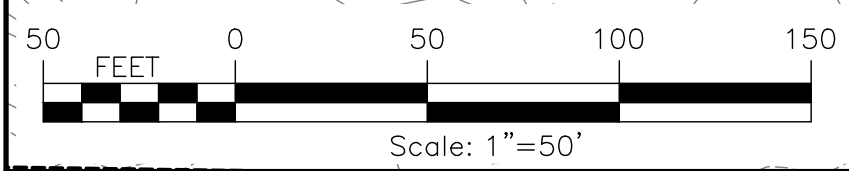
 FISHER ASSOCIATES WWW.FISHERASSOCI.COM				PROJECT WELCOME SOLAR, LLC WEST SALEM TOWNSHIP MERCER COUNTY, PA	DRAWING NO. <b>EX-07</b> SHEET 09 OF 40	
FA PROJECT NO. 200251		PROJECT MANAGER S. SHAFER		TITLE OF DRAWING EXISTING CONDITIONS PLAN		
DRAWN BY J. LOEWER		SCALE AS SHOWN		ISSUE DATE 08/07/2020		
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7		DESCRIPTION	DATE	BY		
6						
5						
4						
3		FINAL PLANS TO MCRPC	8/13/2021	JEC		
2		MERCER CCD TDL COMMENTS	4/16/2021	JML		
1		TWP. & CO. REVIEW COMMENTS	12/30/2020	JEC		



SEE SHEET EX-07

SEE SHEET EX-09

FILE NAME: H:\Projects\200951-00-welcome\_solar\Eng\CAD\mercator\_site\CUT\200251 - existing sheets 7-12.dwg  
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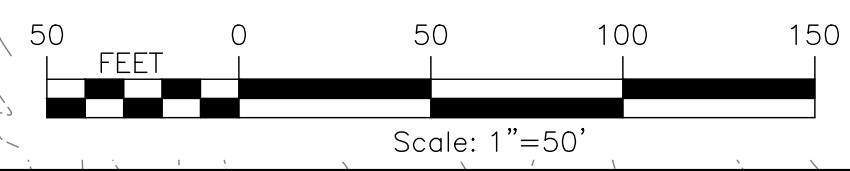
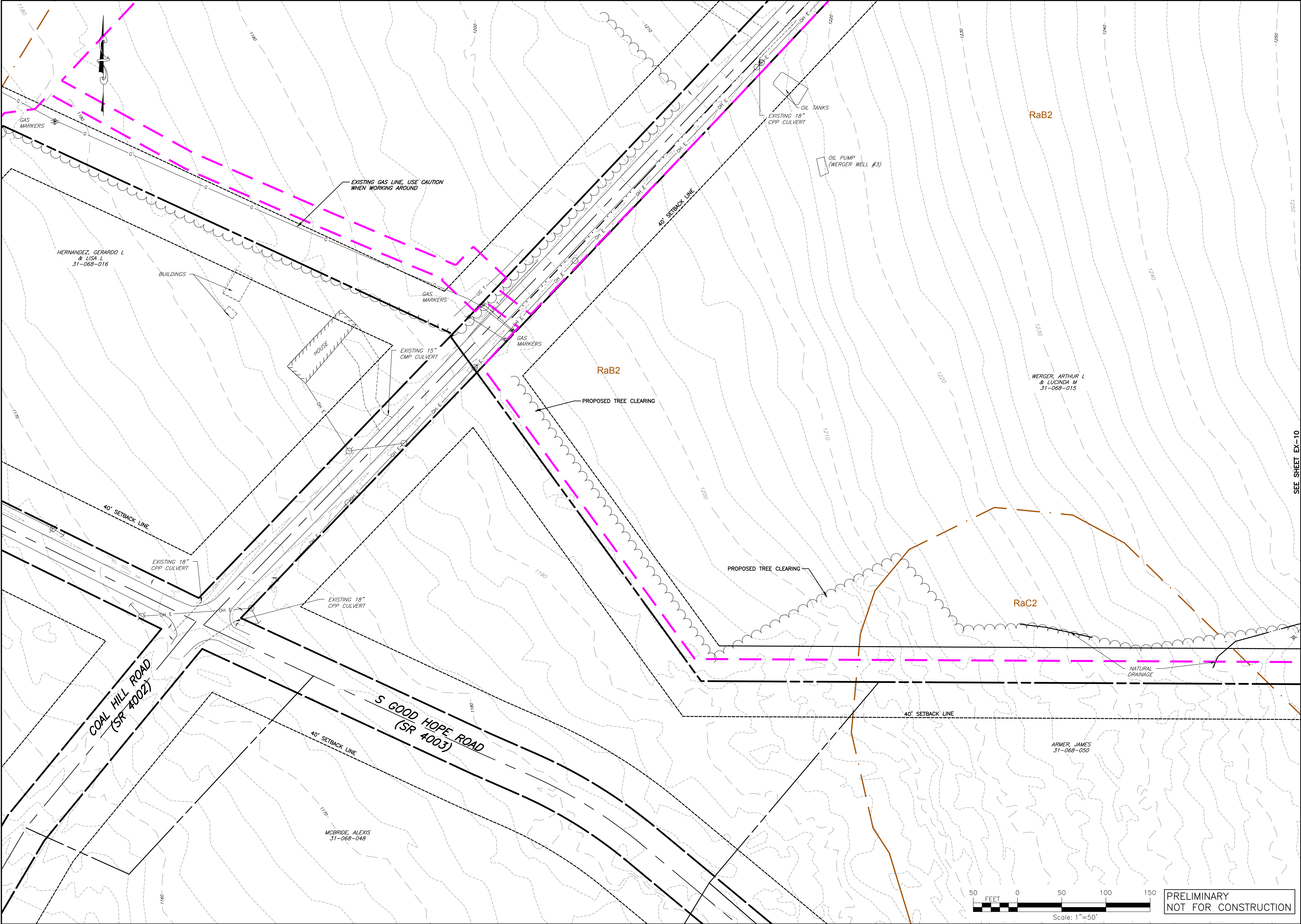
**PRELIMINARY  
NOT FOR CONSTRUCTION**

				
PROJECT WELCOME SOLAR, LLC WEST SALEM TOWNSHIP MERCER COUNTY, PA		FA PROJECT NO. 200251 PROJECT MANAGER S. SHAFER		
TITLE OF DRAWING EXISTING CONDITIONS PLAN		DRAWN BY J. LOEWER SCALE AS SHOWN		
DRAWING NO. <b>EX-08</b>		ISSUE DATE 08/07/2020		
SHEET 10 OF 40		COPYRIGHT © 2020 FISHER ASSOCIATES, P.E.L.L.C., D.P.C. The contents of this document are not to be used for any purpose other than that specifically intended by the author without the written permission of Fisher Associates, Inc. or its authorized agent and named client.		
7	REV	DESCRIPTION	DATE	BY
6				
5				
4				
3		FINAL PLANS TO MCRPC	8/13/2021	JEC
2		MERCER CCD TDL COMMENTS	4/16/2021	JML
1		TWP. & CO. REVIEW COMMENTS	12/30/2020	JEC



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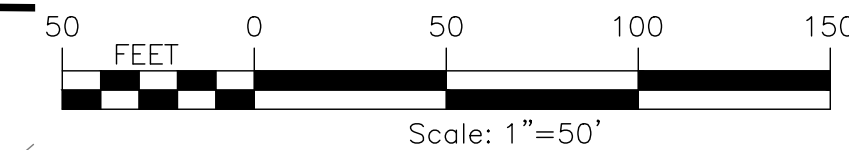
SEE SHEET EX-08

SEE SHEET EX-10



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 <b>FISHER ASSOCIATES</b> WWW.FISHERASSOC.COM		 <b>ReneSola</b>	
PROJECT WELCOME SOLAR, LLC WEST SALEM TOWNSHIP MERCER COUNTY, PA	TITLE OF DRAWING EXISTING CONDITIONS PLAN	FA PROJECT NO. 200251 PROJECT MANAGER S. SHAFER DRAWN BY J. LOEWER SCALE AS SHOWN	ISSUE DATE 08/07/2020
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DRAWING NO. <b>EX-09</b>		SHEET 11 OF 40	



PRELIMINARY  
NOT FOR CONSTRUCTION

FeA

40' SETBACK LINE

WERGER, ARTHUR  
31-068-028

WERGER, ARTHUR L  
& LUCINDA M  
31-068-015

RaB2

DEVRIES, BURT  
31-068-029

PROPOSED TREE CLEARING

EXISTING GAS LINE, USE CAUTION  
WHEN WORKING AROUND

40' SETBACK LINE

ARMER, JAMES  
31-068-050

RaC2

FIRIS, DAVID  
31-068-057

RaA

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SEE SHEET EX-09

REV	DESCRIPTION	DATE	BY
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6			
5			
4	FINAL PLANS TO MCRPC	8/13/2021	JEC
3	MERCER CCD TDL COMMENTS	4/16/2021	JML
2	TWP. & CO. REVIEW COMMENTS	12/30/2020	JEC
1			

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carefully before using it.

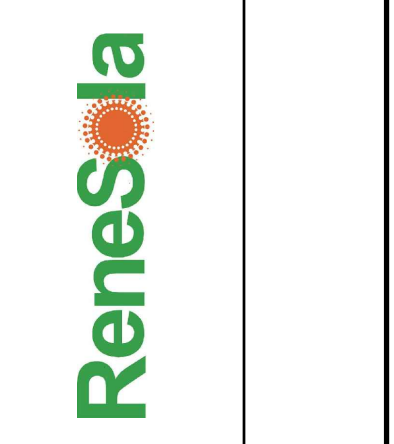
FA PROJECT NO.  
**200251**

PROJECT MANAGER  
**S. SHAFER**

DRAWN BY  
**J. LOEWER**

SCALE  
**AS SHOWN**

ISSUE DATE  
**08/07/2020**



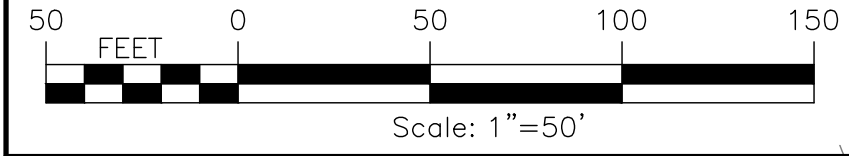
PROJECT  
WELCOME SOLAR, LLC  
WEST SALEM TOWNSHIP  
MERCER COUNTY, PA

TITLE OF DRAWING  
EXISTING CONDITIONS PLAN

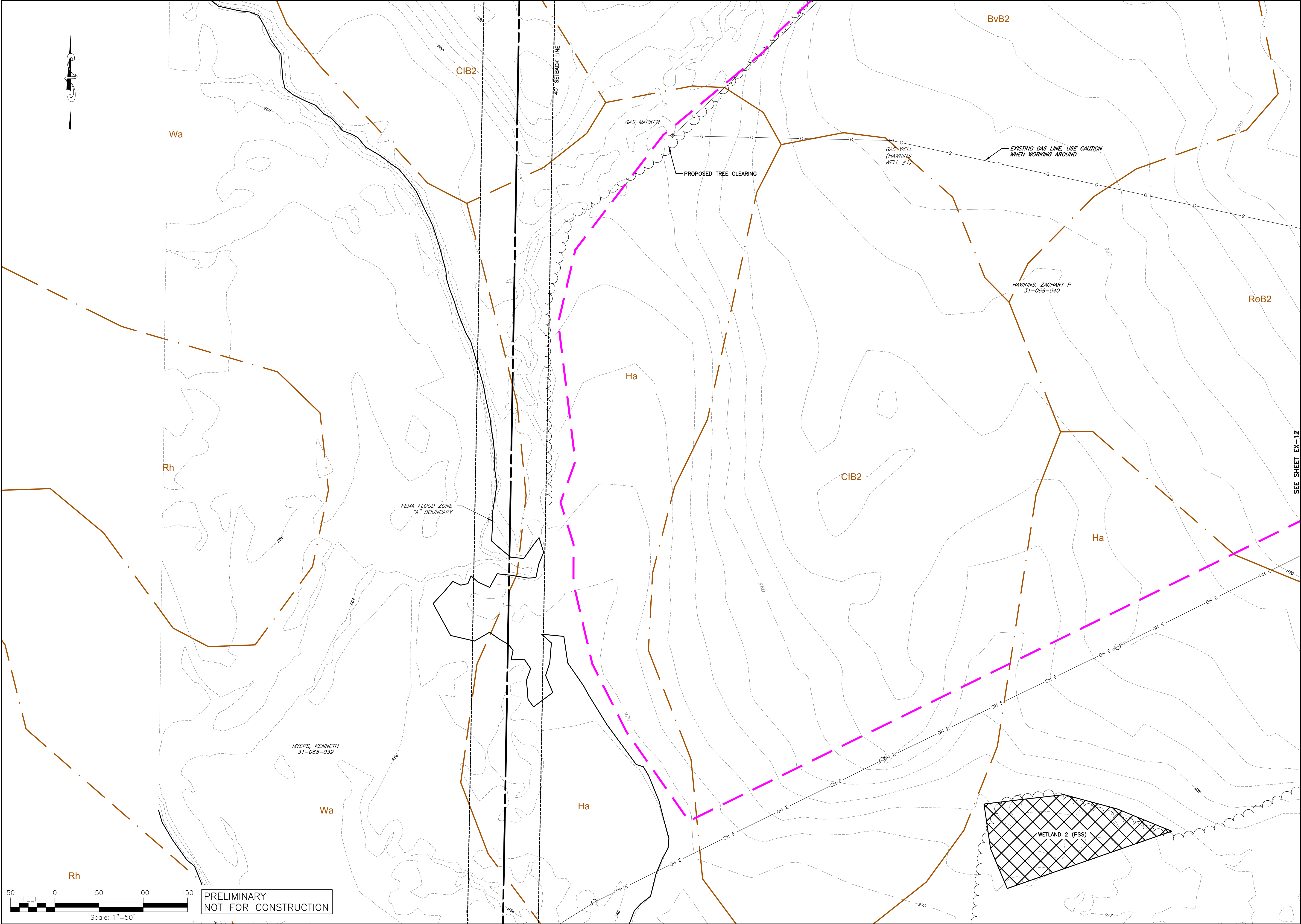
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**EX-10**



SHEET 12 OF 40

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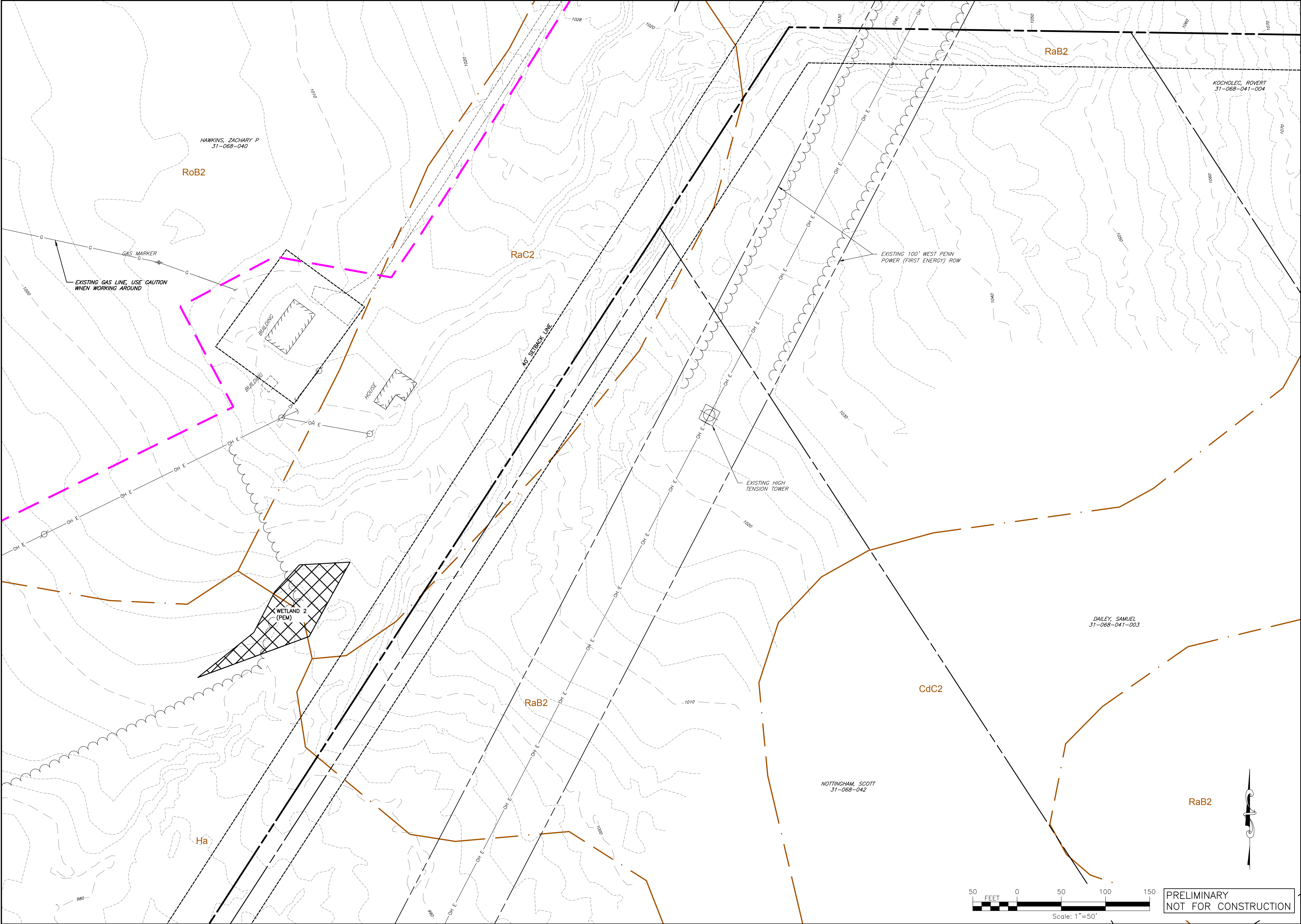


			
PROJECT WELCOME SOLAR, LLC WEST SALEM TOWNSHIP MERCER COUNTY, PA		TITLE OF DRAWING EXISTING CONDITIONS PLAN	
DRAWING NO. <b>EX-11</b>		SHEET 12 OF 40	
FA PROJECT NO. 200251 PROJECT MANAGER S. SHAFER		DRAWN BY J. LOEWER SCALE AS SHOWN	
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3 FINAL PLANS TO MCRPC 8/13/2021 JEC		2 MERCER CCD TDL COMMENTS 4/16/2021 JML	
5 		6 	
7 		7 	
		DESCRIPTION DATE BY	

SEE SHEET EX-12

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DATE/TIME: 4/15/2021 11:20:18 AM  
USER: Justin Cree

SEE SHEET EX-11



REV	DESCRIPTION	DATE	BY
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6			
5			
4			
3	FINAL PLANS TO MCRPC	8/13/2021	JEC
2	MERCER CCD TDL COMMENTS	4/16/2021	JML
1	TWP. & CO. REVIEW COMMENTS	12/30/2020	JEC

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FA PROJECT NO.  
**200251**

PROJECT MANAGER  
**S. SHAFER**

DRAWN BY  
**J. LOEWER**

SCALE  
**AS SHOWN**

ISSUE DATE  
**08/07/2020**



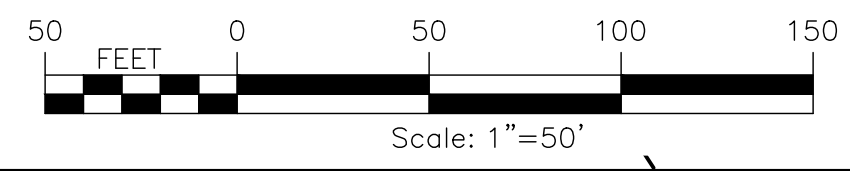
**ReneSola**

PROJECT  
WELCOME SOLAR, LLC  
WEST SALEM TOWNSHIP  
MERCER COUNTY, PA

TITLE OF DRAWING  
EXISTING CONDITIONS PLAN

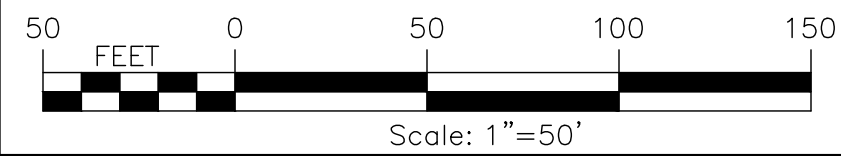
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**EX-12**

SHEET 14 OF 40

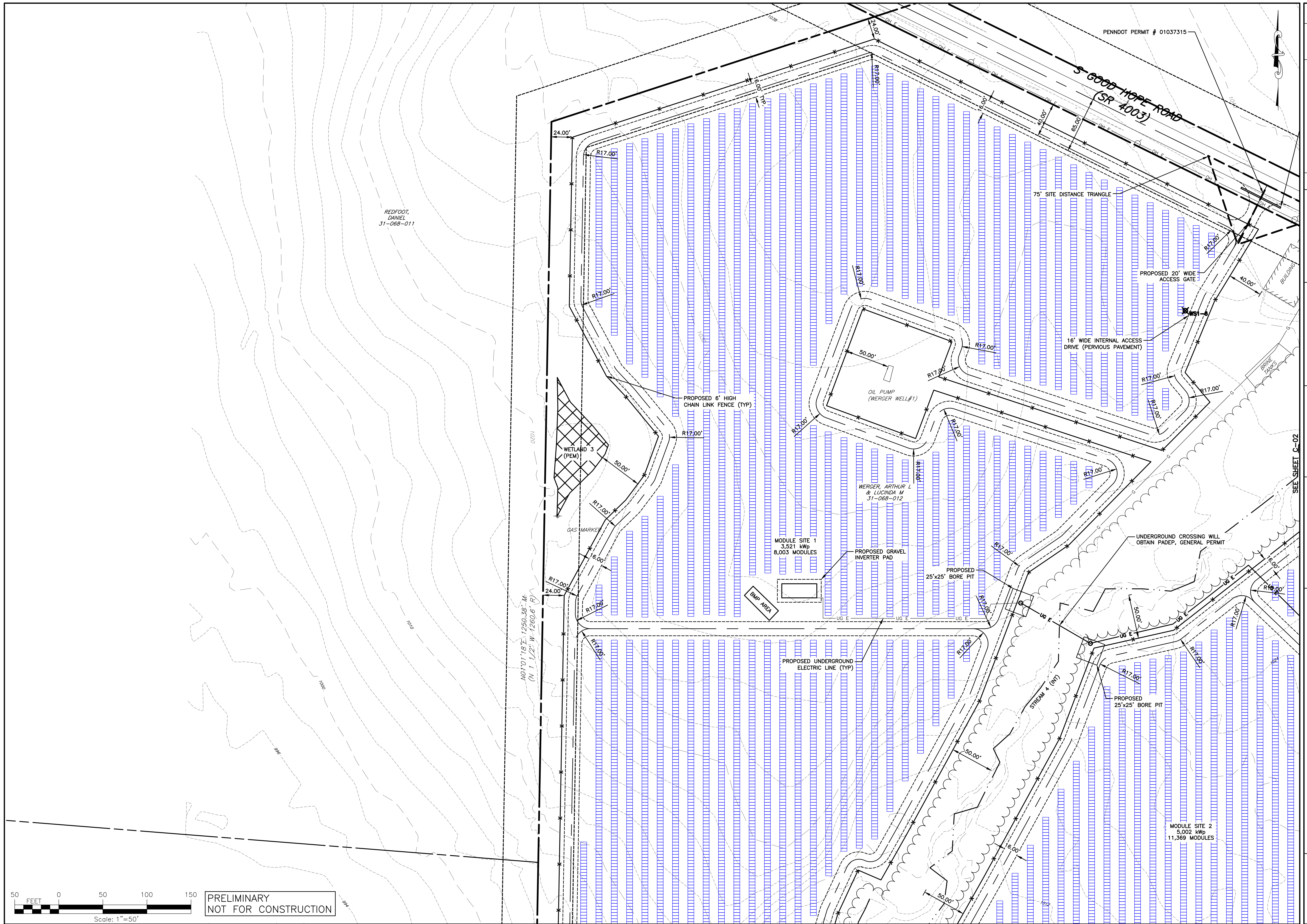


PRELIMINARY  
NOT FOR CONSTRUCTION

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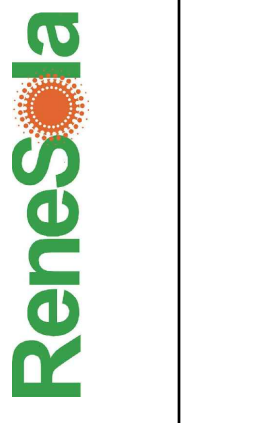


PENNDOT PERMIT # 01037315

REDFOOT,  
 DANIEL  
 31-068-011

AN01'01"18" N  
 (N 1 1/2° W 1250.38' 14")  
 (N 1 1/2° W 1250.6' R)

PROJECT WELCOME SOLAR, LLC WEST SALEM TOWNSHIP MERCER COUNTY, PA		TITLE OF DRAWING DESIGN SHEET C-01		
DRAWING NO. <b>C-01</b>		SHEET 15 OF 40		
PROJECT NO. 200251		PROJECT MANAGER S. SHAFER		
DRAWN BY KO		ISSUE DATE 08/07/2020		
SCALE 1" = 50'		DESCRIPTION TWP. & CO. REVIEW COMMENTS 12/30/2020 JEC 4/16/2021 JML 8/13/2021 JEC		
FA PROJECT NO. 200251		PROJECT MANAGER S. SHAFER		
DRAWN BY KO		ISSUE DATE 08/07/2020		
SCALE 1" = 50'		DESCRIPTION TWP. & CO. REVIEW COMMENTS 12/30/2020 JEC 4/16/2021 JML 8/13/2021 JEC		
7	REV	DESCRIPTION	DATE	BY
6				
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3				
2				
1				



PROJECT  
 WELCOME SOLAR, LLC  
 WEST SALEM TOWNSHIP  
 MERCER COUNTY, PA

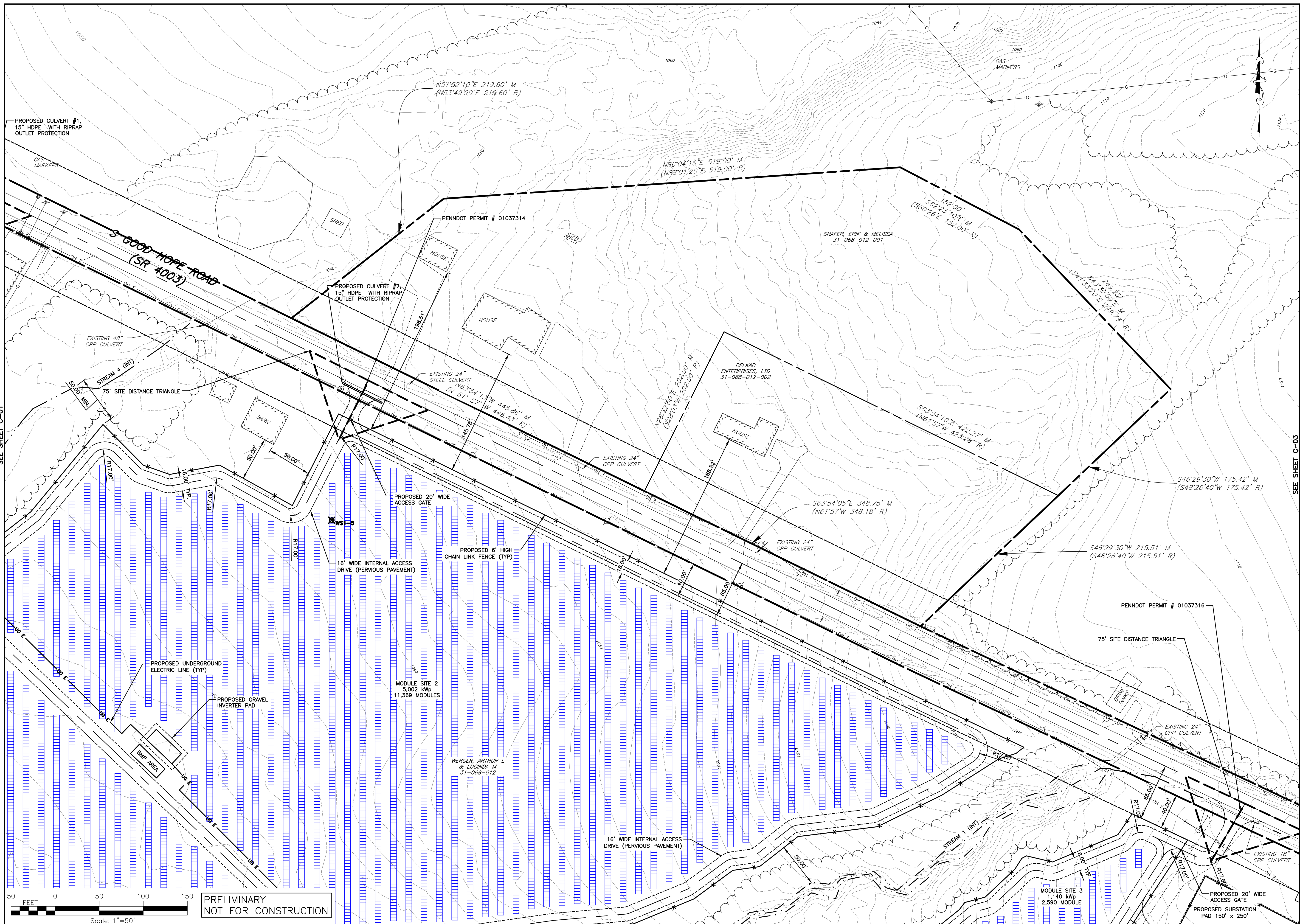
DRAWING NO.  
**C-01**

SHEET 15 OF 40

SEE SHEET C-06

SEE SHEET C-02

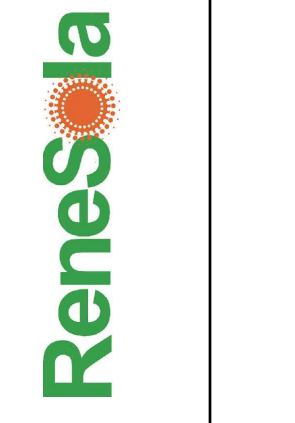
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 USER: Justin Cree



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 NOT FOR CONSTRUCTION

SEE SHEET C-07

PROJECT WELCOME SOLAR, LLC WEST SALEM TOWNSHIP MERCER COUNTY, PA		TITLE OF DRAWING DESIGN SHEET C-02	
DRAWING NO. <b>C-02</b>		SHEET 16 OF 40	
PROJECT NO. 200251		PROJECT MANAGER S. SHAFER	
DESIGNER KO		ISSUE DATE 08/07/2020	
SCALE 1" = 50'		DESCRIPTION TWP. & CO. REVIEW COMMENTS 12/30/2020 JEC 4/16/2021 JML 8/13/2021 JEC	
REVISIONS 7 6 5 4 3 2 1		REV 7 6 5 4 3 2 1	
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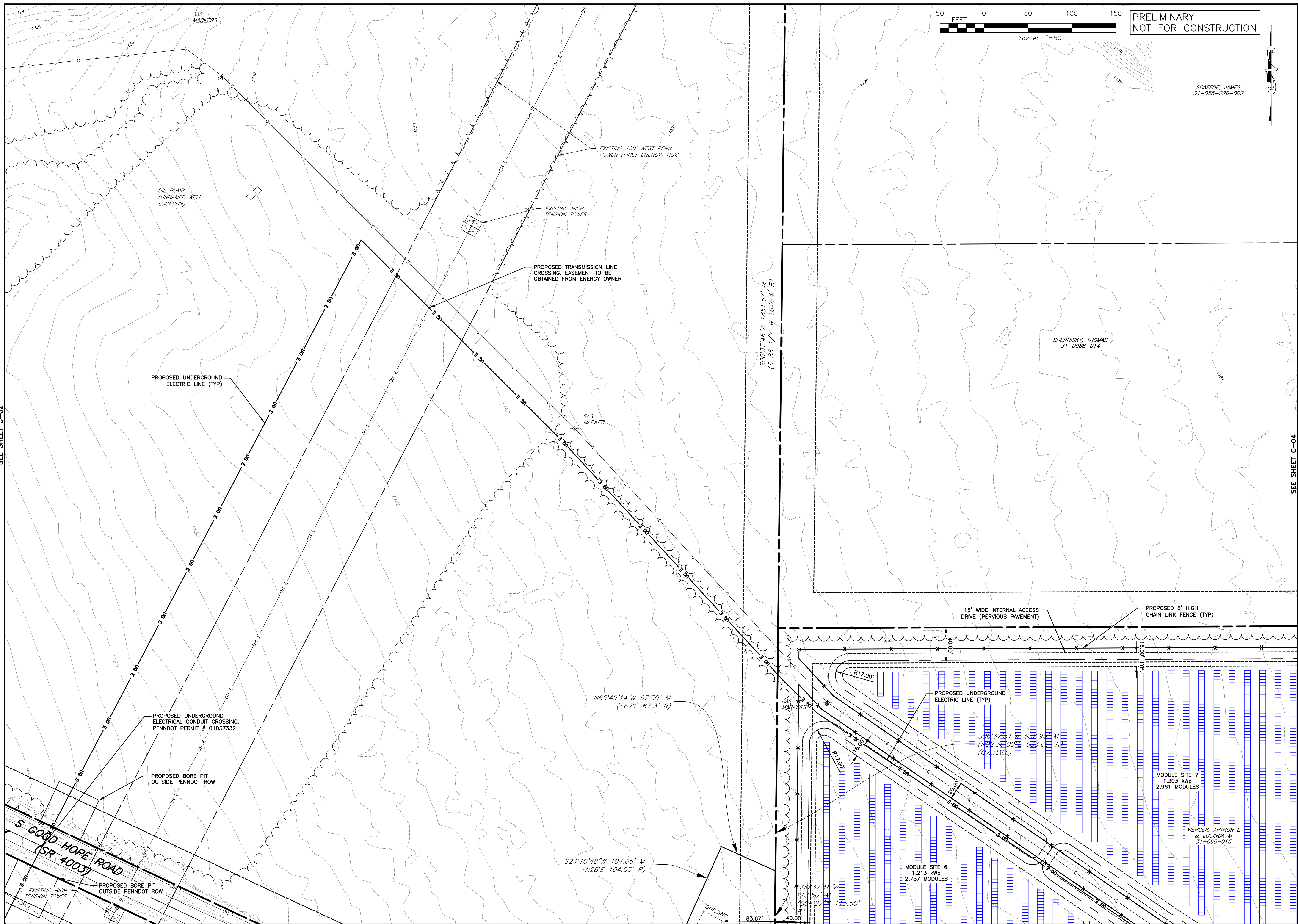


PROJECT  
 WELCOME SOLAR, LLC  
 WEST SALEM TOWNSHIP  
 MERCER COUNTY, PA

DRAWING NO.  
**C-02**  
 SHEET 16 OF 40



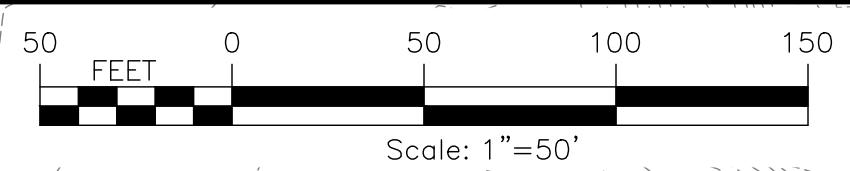
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SEE SHEET C-02

SEE SHEET C-04

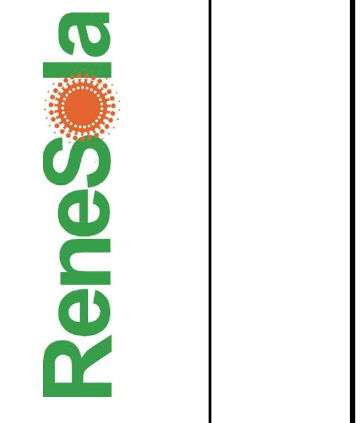
SEE SHEET C-08



PRELIMINARY  
NOT FOR CONSTRUCTION

SCAFEDE, JAMES  
31-055-226-002

PROJECT <b>WELCOME SOLAR, LLC</b> WEST SALEM TOWNSHIP MERCER COUNTY, PA		TITLE OF DRAWING <b>DESIGN SHEET C-03</b>	
DRAWING NO. <b>C-03</b>		SHEET 17 OF 40	
PROJECT NO. <b>200251</b>		PROJECT MANAGER <b>S. SHAFER</b>	
DESIGNER <b>KO</b>		ISSUE DATE <b>08/07/2020</b>	
SCALE <b>1" = 50'</b>		DESCRIPTION <b>FINAL PLANS TO MCRPC</b>	
DATE <b>8/13/2021</b>		BY <b>JEC</b>	
REV <b>1</b>		TWP. & CO. REVIEW COMMENTS <b>12/30/2020</b>	
REV <b>2</b>		JML <b>4/16/2021</b>	
REV <b>3</b>		JEC <b>8/13/2021</b>	
REV <b>4</b>		MCRPC <b>4/16/2021</b>	
REV <b>5</b>		JEC <b>8/13/2021</b>	
REV <b>6</b>		JEC <b>8/13/2021</b>	
REV <b>7</b>		JEC <b>8/13/2021</b>	



PROJECT  
**WELCOME SOLAR, LLC**  
 WEST SALEM TOWNSHIP  
 MERCER COUNTY, PA

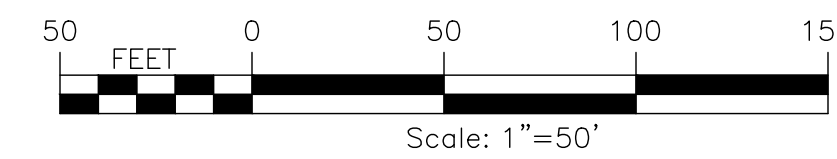
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**C-03**

SHEET 17 OF 40

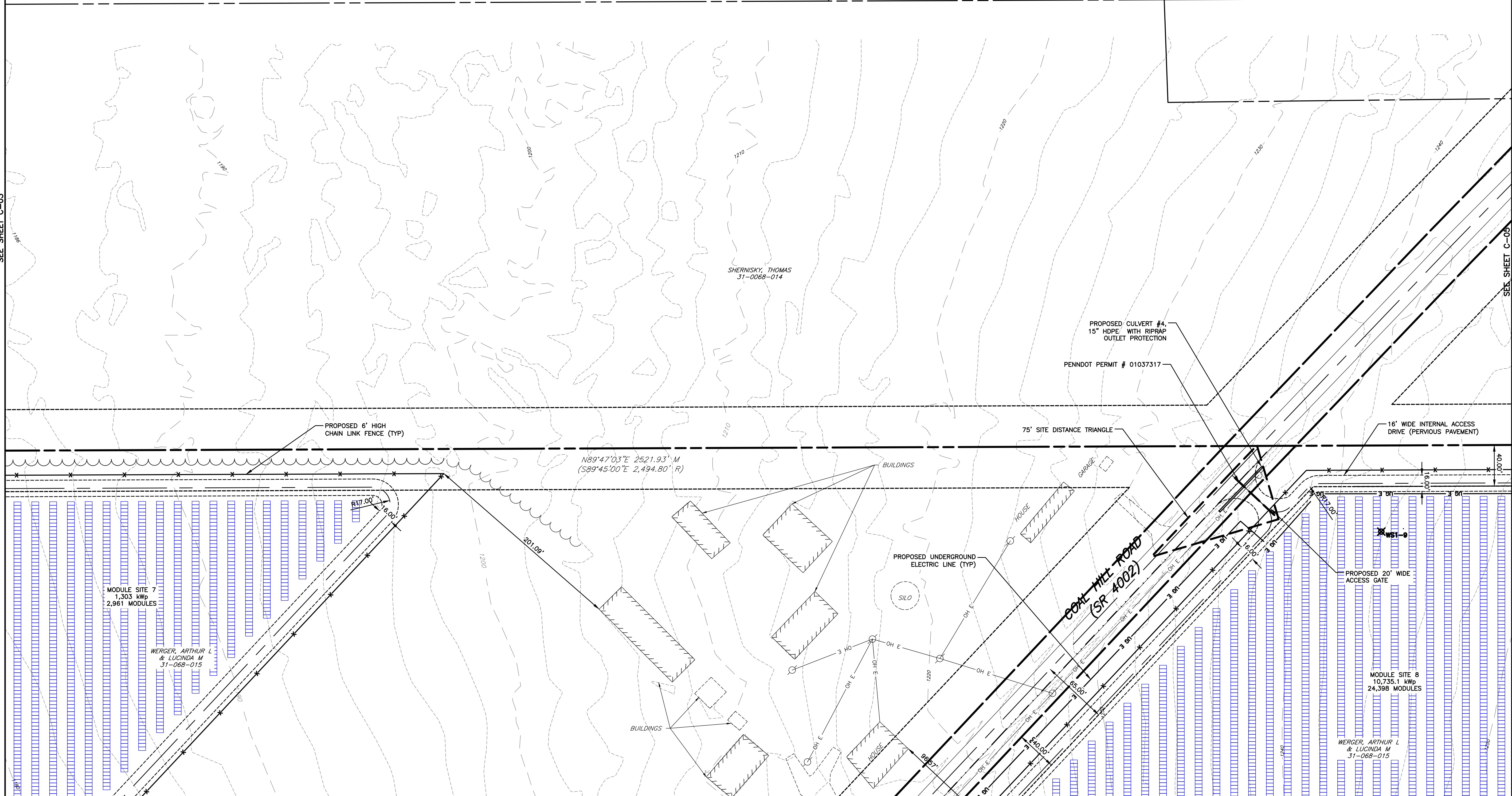
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SEE SHEET C-03



SCAFFE, JAMES  
 31-055-226-002



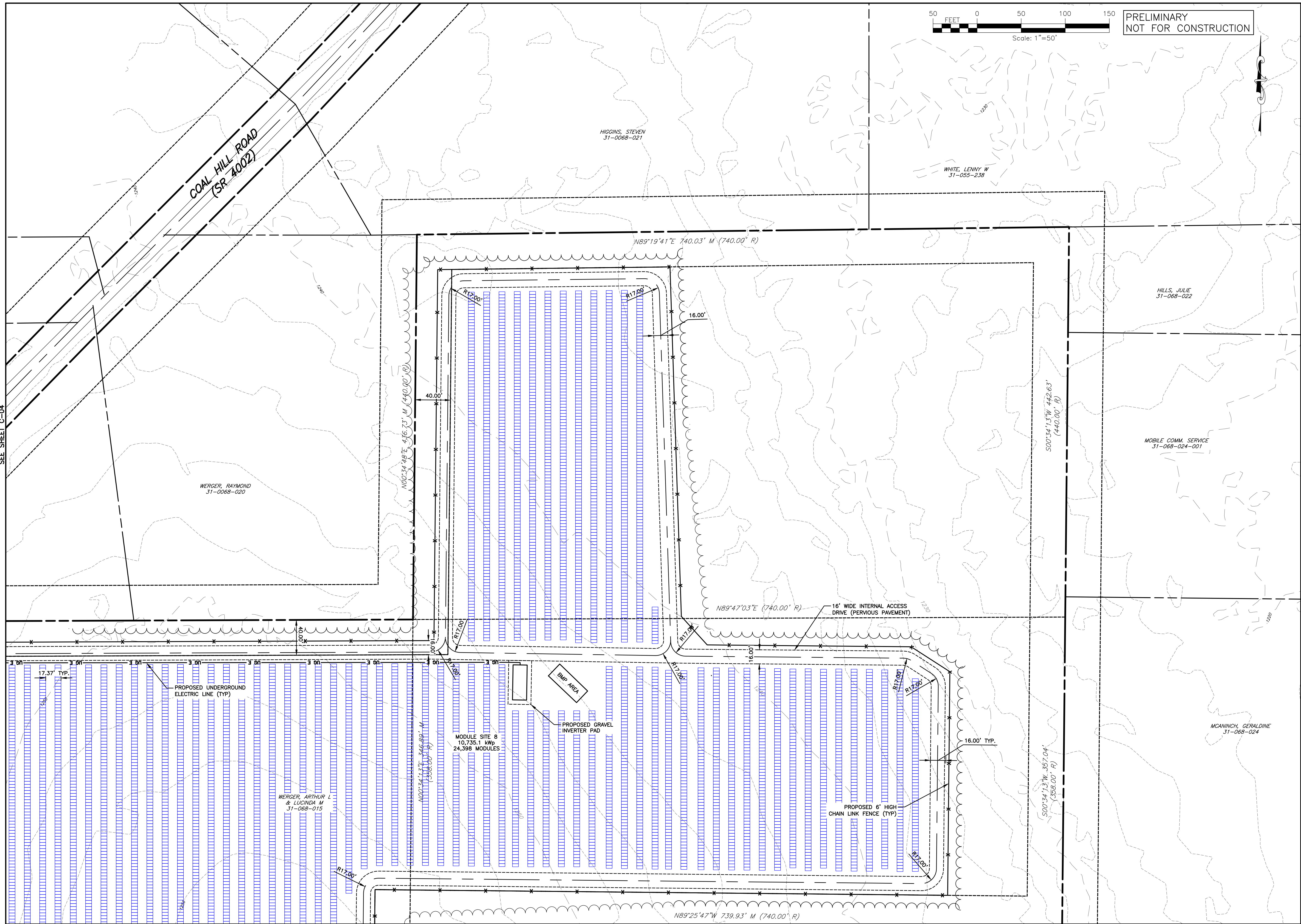
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SEE SHEET C-09

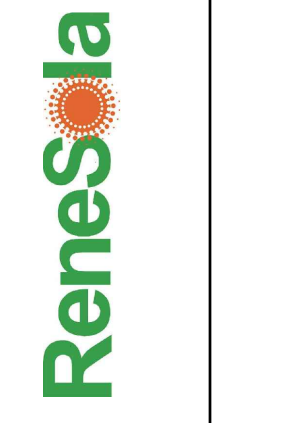
 FISHER ASSOCIATES WWW.FISHERASSOC.COM		 ReneSola	
PROJECT WELCOME SOLAR, LLC WEST SALEM TOWNSHIP MERCER COUNTY, PA		TITLE OF DRAWING DESIGN SHEET C-04	
DRAWING NO. <b>C-04</b>		SHEET 18 OF 40	
FA PROJECT NO. 200251	PROJECT MANAGER S. SHAFER	DRAWN BY KO	SCALE 1" = 50'
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7	REV	DESCRIPTION	DATE
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4		FINAL PLANS TO MCRPC	8/13/2021
3		MERCER CCD TDL COMMENTS	4/16/2021
2		TWP. & CO. REVIEW COMMENTS	12/30/2020
1			
	BY		

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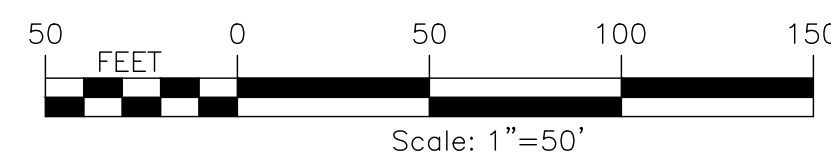
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DRAWING NO.		C-05		
TITLE OF DRAWING		DESIGN SHEET C-05		
FA PROJECT NO.		200251		
PROJECT MANAGER		S. SHAFER		
DRAWN BY		KO		
SCALE		1" = 50'		
ISSUE DATE		08/07/2020		
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7	REV	DESCRIPTION	DATE	BY
6				
5				
4				
3		FINAL PLANS TO MCRPC	8/13/2021	JEC
2		MERCER CCD TDL COMMENTS	4/16/2021	JML
1		TWP. & CO. REVIEW COMMENTS	12/30/2020	JEC



PROJECT  
WELCOME SOLAR, LLC  
WEST SALEM TOWNSHIP  
MERCER COUNTY, PA

C-05

SHEET 19 OF 40



PRELIMINARY  
NOT FOR CONSTRUCTION

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DATE/TIME: 4/15/2021 12:15:18 PM  
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FEMA FLOOD  
ZONE "A"

N01°01'18"E 1250.38' M  
(N 1 1/2' W 1200.6' R)

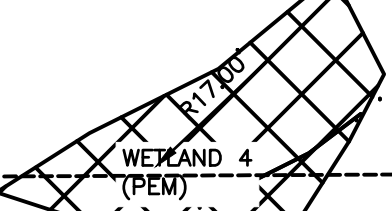
S89°43'28"W 3212.32' M  
(S 88 1/2' W 3201' R)

MODULE SITE 1  
3,521 kWp  
8,003 MODULES

MODULE SITE 2  
5,002 kWp  
11,369 MODULES

WERGER, ARTHUR L  
& LUCINDA M  
31-068-012

PROPOSED CULVERT #5,  
24" HDPE WITH RIPRAP  
OUTLET PROTECTION



16' WIDE INTERNAL ACCESS  
DRIVE (PERVIOUS PAVEMENT)

PROPOSED 6' HIGH  
CHAIN LINK FENCE (TYP)

MODULE SITE 4  
5,758 kWp  
13,087 MODULES

HAWKINS, ZACHARY P  
31-068-040

7	REV	DESCRIPTION	DATE	BY
6				
5				
4		FINAL PLANS TO MCRPC	8/13/2021	JEC
3		MERCER CCD TDL COMMENTS	4/16/2021	JML
2		TWP. & CO. REVIEW COMMENTS	12/30/2020	JEC
1				

FA PROJECT NO.  
200251  
PROJECT MANAGER  
S. SHAFER  
DESIGNED BY  
KO  
SCALE  
1" = 50'

ISSUE DATE  
08/07/2020

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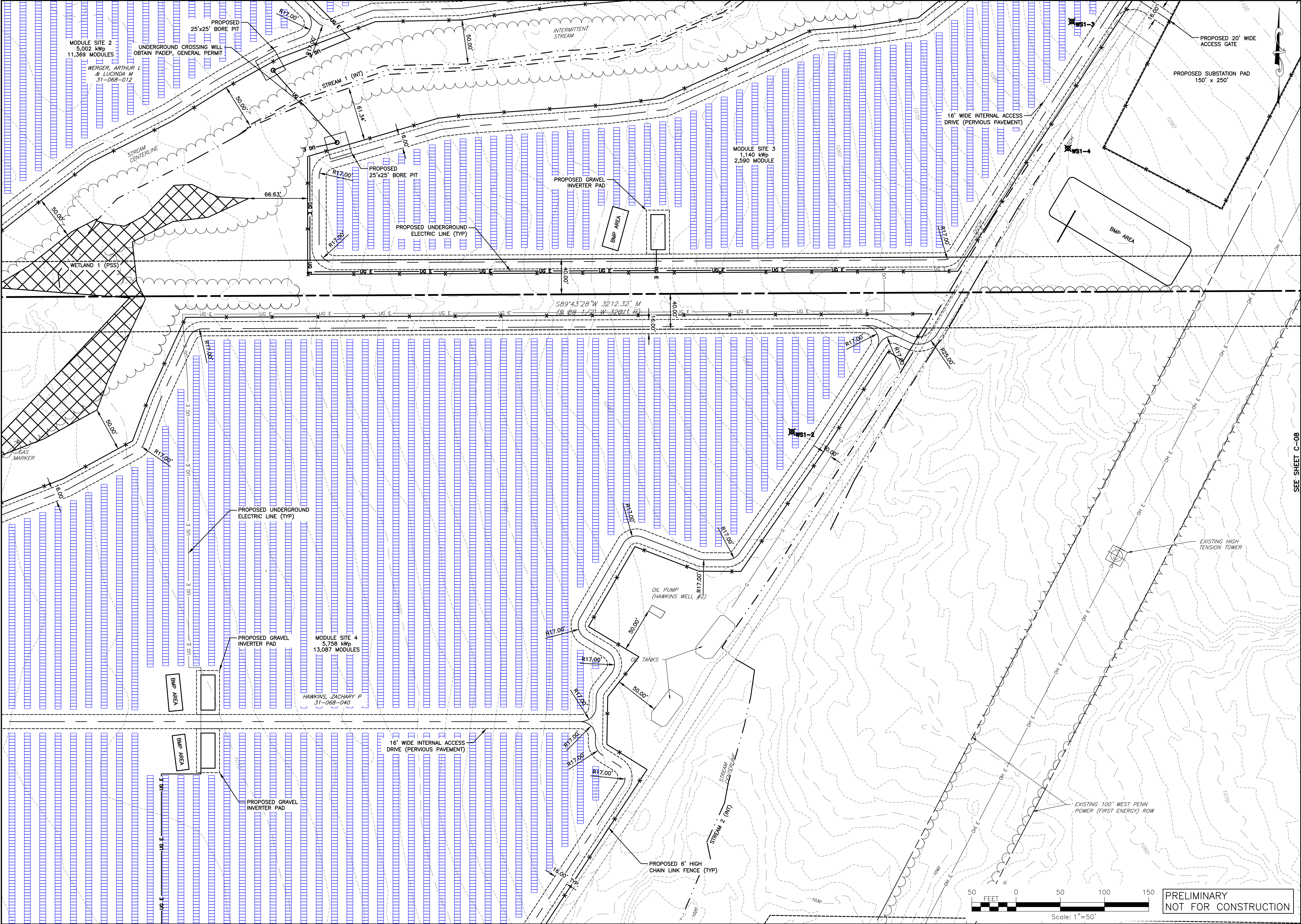
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PROJECT  
WELCOME SOLAR, L.L.C.  
WEST SALEM TOWNSHIP  
MERCER COUNTY, PA

TITLE OF DRAWING  
DESIGN SHEET C-06

DRAWING NO.  
**C-06**  
SHEET 20 OF 40

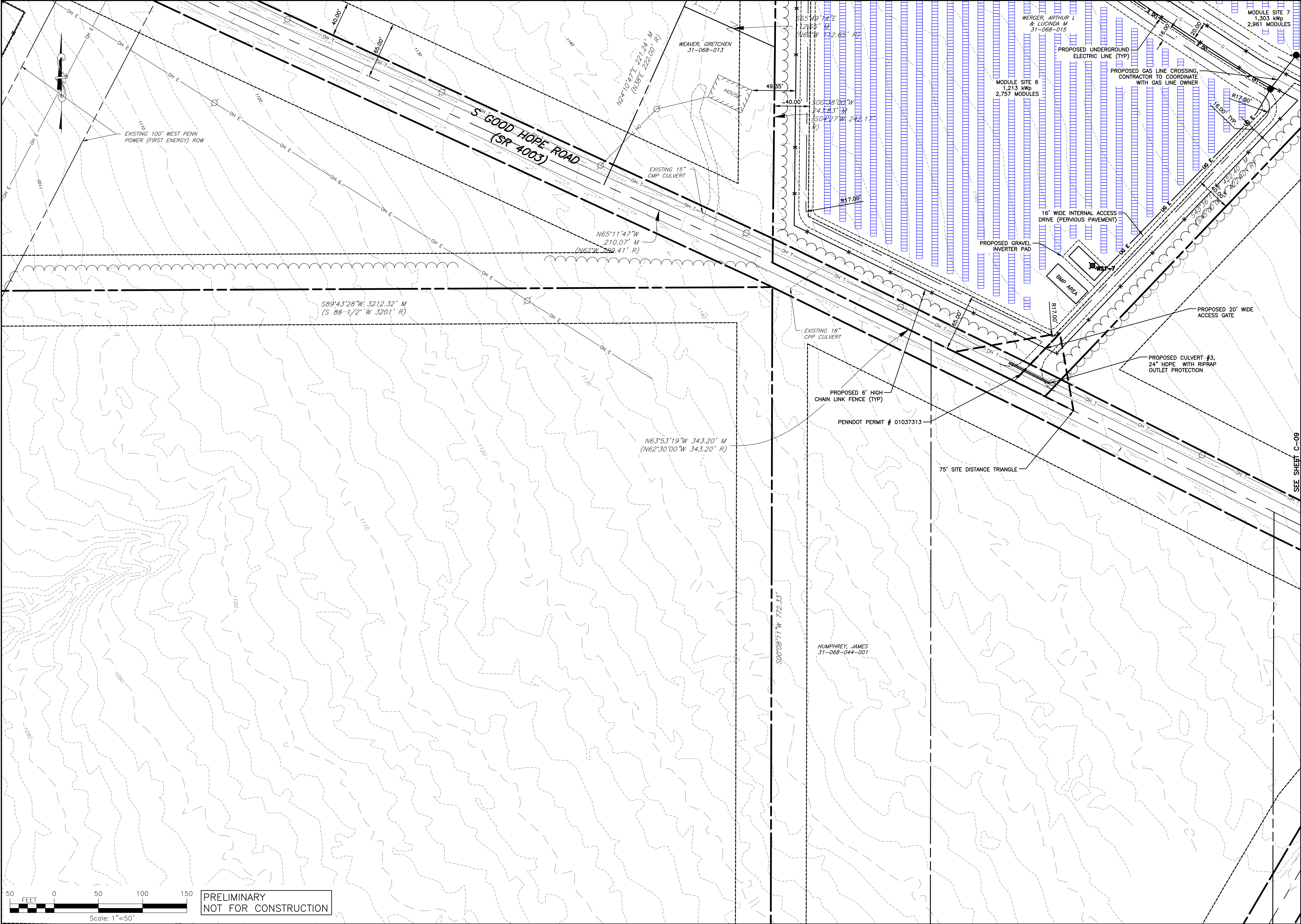


SEE SHEET C-06

SEE SHEET C-08

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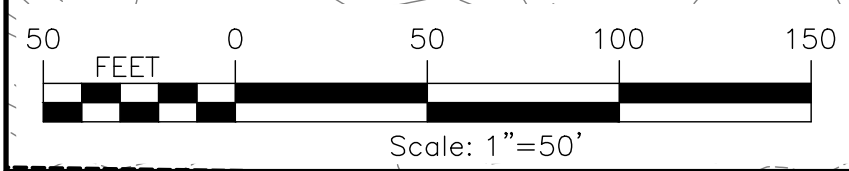
PROJECT <b>WELCOME SOLAR, LLC</b> WEST SALEM TOWNSHIP MERCER COUNTY, PA		PROJECT NO. <b>200251</b>		PROJECT MANAGER <b>S. SHAFER</b>		DRAWING BY <b>KO</b>		SCALE <b>1" = 50'</b>		ISSUE DATE <b>08/07/2020</b>	
DRAWING NO. <b>C-07</b>		TITLE OF DRAWING <b>DESIGN SHEET C-07</b>		COPYRIGHT © 2020 FISHER ASSOCIATES, P.C. FISHER ASSOCIATES, P.C. IS THE REGISTERED SERVICE MARK OF FISHER ASSOCIATES, P.C. ALL RIGHTS RESERVED. THE CONTENTS OF THIS DOCUMENT ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF FISHER ASSOCIATES, P.C.		TWP. & CO. REVIEW COMMENTS 12/30/2020 JEC		JEC		DATE BY	
REV 1 2 3 4 5 6 7		DESCRIPTION TWP. & CO. REVIEW COMMENTS MERCER CCD TDL COMMENTS FINAL PLANS TO MCRPC		12/30/2020 JEC 4/16/2021 JML 8/13/2021 JEC		12/30/2020 JEC 4/16/2021 JML 8/13/2021 JEC		DATE BY		JEC JML JEC	



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SEE SHEET C-09

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 USER: Justin Cree



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PROJECT WELCOME SOLAR, LLC WEST SALEM TOWNSHIP MERCER COUNTY, PA		TITLE OF DRAWING DESIGN SHEET C-08		DRAWING NO. <b>C-08</b>		SHEET 22 OF 40	
PROJECT NO. 200251		PROJECT MANAGER S. SHAFER		DRAWN BY KO		SCALE 1" = 50'	
FA PROJECT NO. 200251		PROJECT MANAGER S. SHAFER		DRAWN BY KO		SCALE 1" = 50'	
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7	REV	DESCRIPTION	DATE	BY			
6							
5							
4		FINAL PLANS TO MCRPC	8/13/2021	JEC			
3		MERCER CCD TDL COMMENTS	4/16/2021	JML			
2		TWP. & CO. REVIEW COMMENTS	12/30/2020	JEC			
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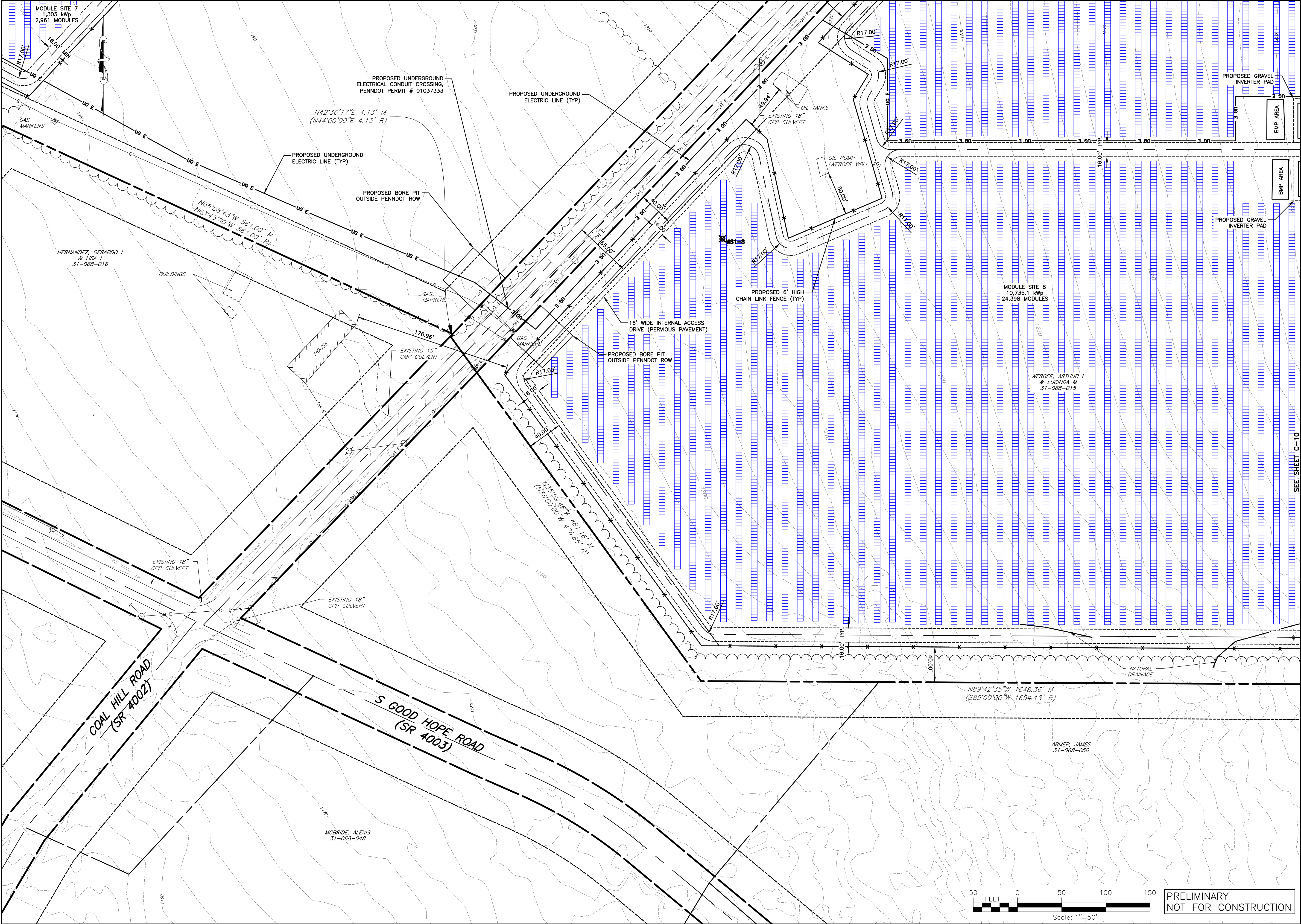


PROJECT  
 WELCOME SOLAR, LLC  
 WEST SALEM TOWNSHIP  
 MERCER COUNTY, PA

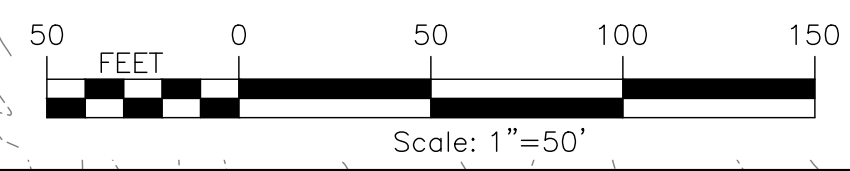
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**C-08**

SHEET 22 OF 40

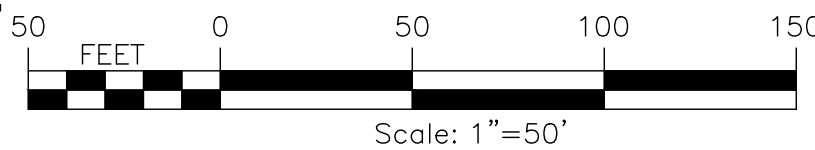
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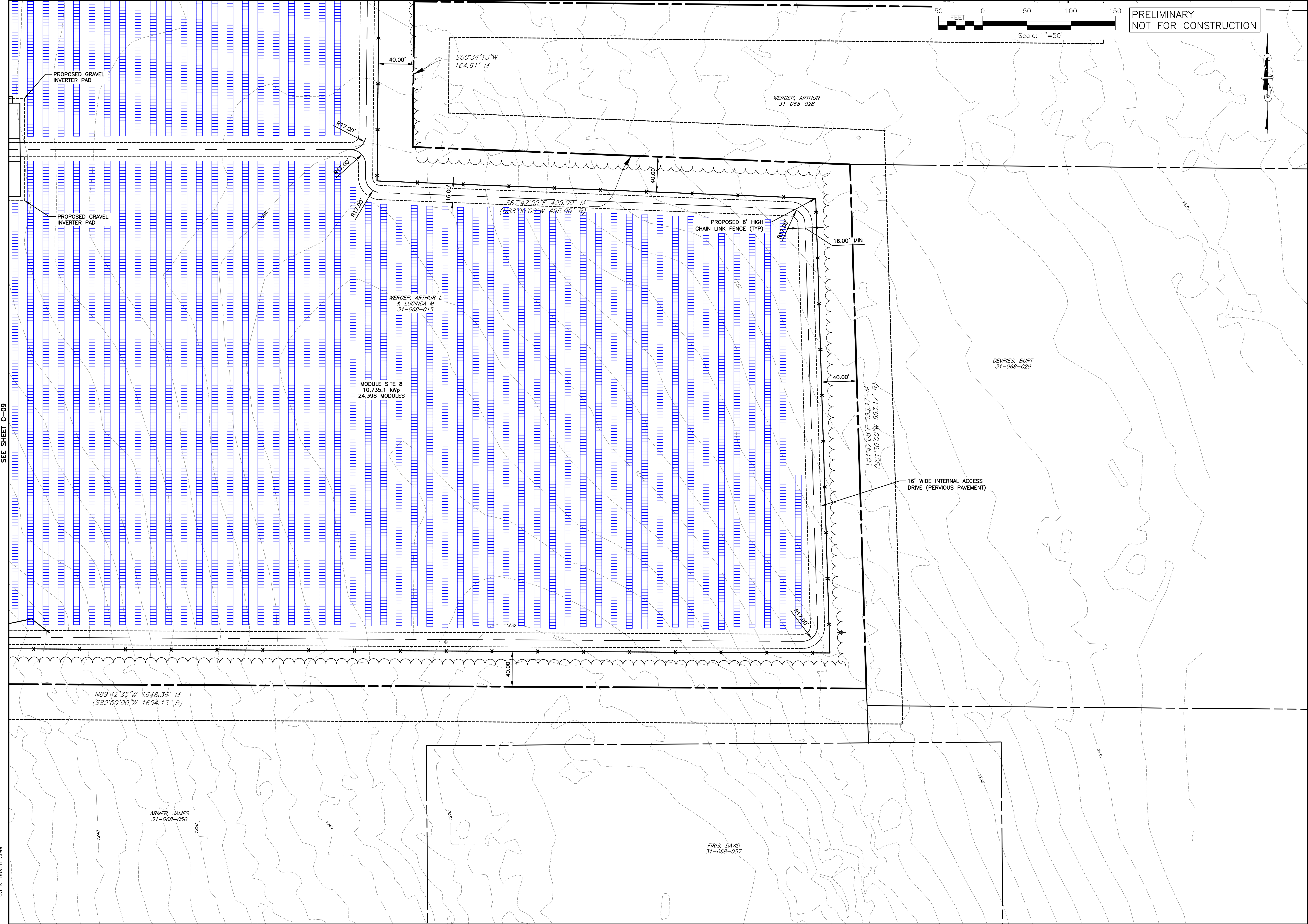
PROJECT WELCOME SOLAR, LLC WEST SALEM TOWNSHIP MERCER COUNTY, PA		TITLE OF DRAWING DESIGN SHEET C-09		
DRAWING NO. <b>C-09</b>		SHEET 23 OF 40		
PROJECT NO. 200251		PROJECT MANAGER S. SHAFER		
DESIGNER KO		ISSUE DATE 08/07/2020		
SCALE 1" = 50'		FA PROJECT NO. 200251		
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7	REV	DESCRIPTION	DATE	BY
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5				
4				
3		FINAL PLANS TO MCRPC	8/13/2021	JEC
2		MERCER CCD TDL COMMENTS	4/16/2021	JML
1		TWP. & CO. REVIEW COMMENTS	12/30/2020	JEC



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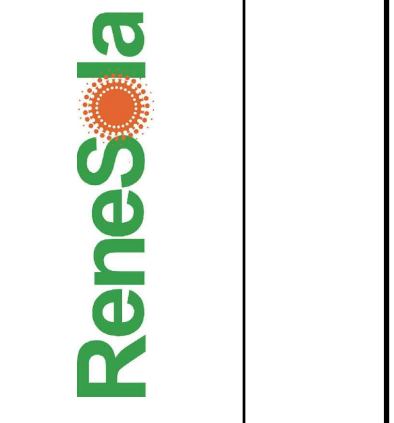
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PROJECT NO. <b>200251</b>		PROJECT MANAGER <b>S. SHAFER</b>		
DRAWN BY <b>KO</b>		ISSUE DATE <b>08/07/2020</b>		
SCALE <b>1" = 50'</b>				
FA PROJECT NO. <b>200251</b>		PROJECT MANAGER <b>S. SHAFER</b>		
DRAWN BY <b>KO</b>		ISSUE DATE <b>08/07/2020</b>		
SCALE <b>1" = 50'</b>				
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7	REV	DESCRIPTION	DATE	BY
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3		FINAL PLANS TO MCRPC	8/13/2021	JEC
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1		TWP. & CO. REVIEW COMMENTS	12/30/2020	JEC



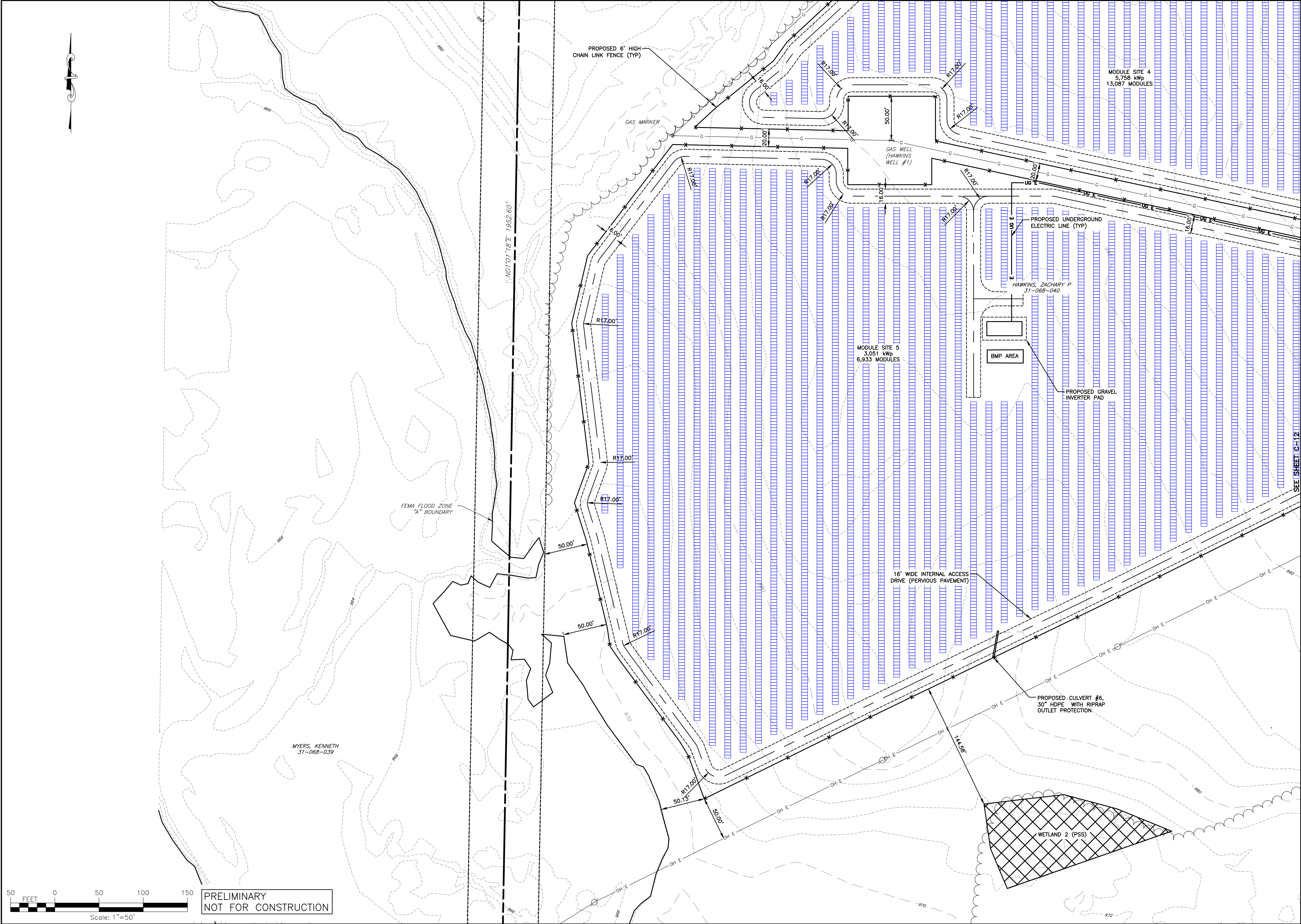
PROJECT  
 WELCOME SOLAR, LLC  
 WEST SALEM TOWNSHIP  
 MERCER COUNTY, PA

TITLE OF DRAWING  
 DESIGN SHEET C-10

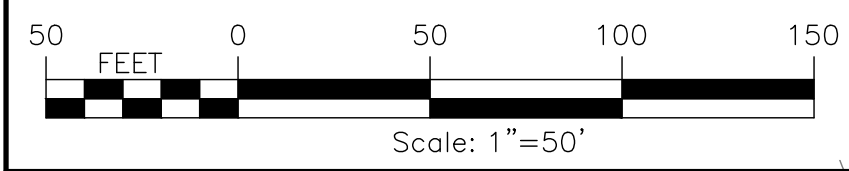
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SHEET 24 OF 40





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PROJECT MANAGER <b>S. SHAFER</b>		DESIGNER <b>KO</b>		ISSUE DATE <b>08/07/2020</b>	
FA PROJECT NO. <b>200251</b>		SCALE <b>1" = 50'</b>		REV 1 TWP. & CO. REVIEW COMMENTS 12/30/2020 JEC	
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PROJECT  
WELCOME SOLAR, LLC  
WEST SALEM TOWNSHIP  
MERCER COUNTY, PA

C-11

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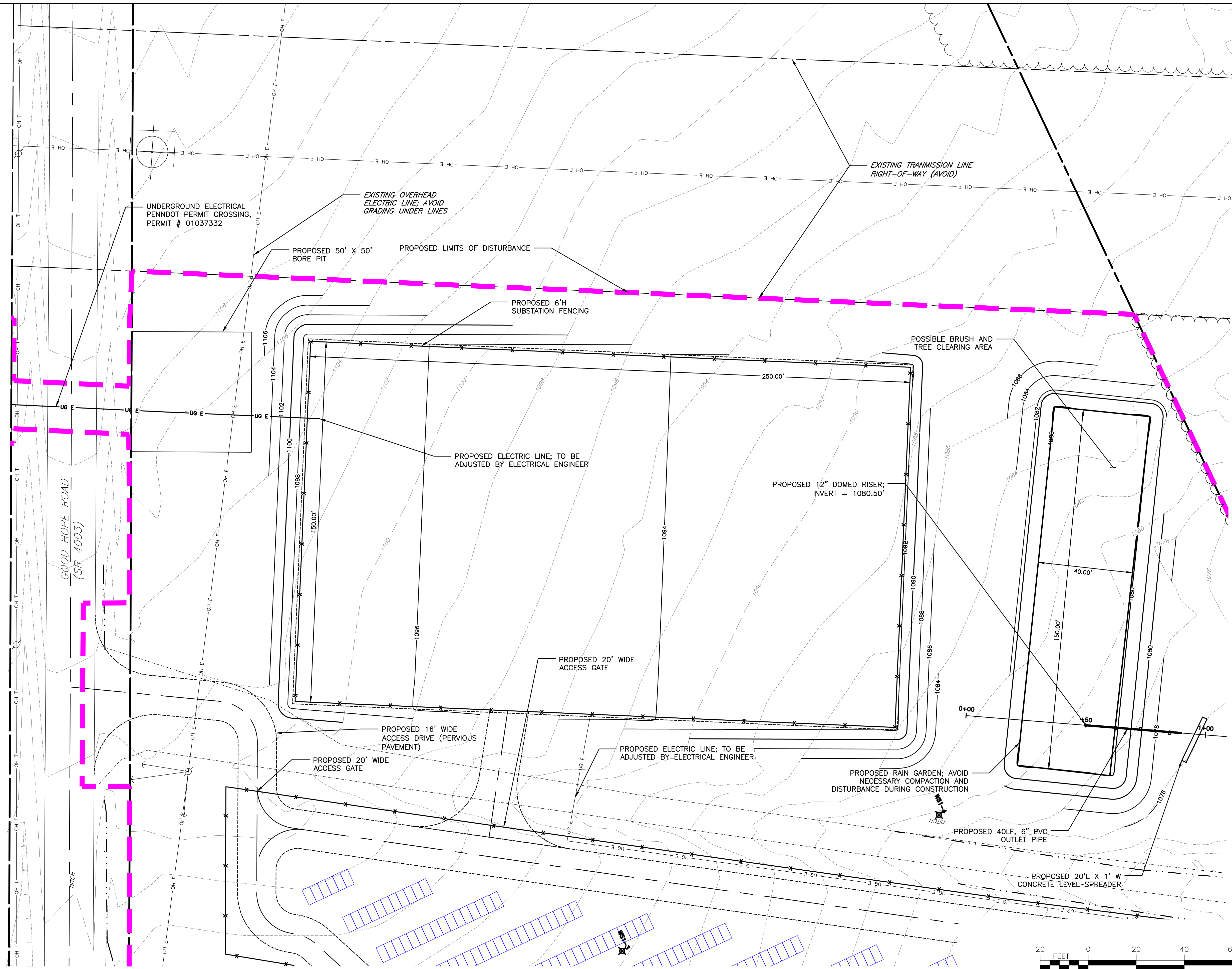
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PROJECT NO. <b>200251</b>		PROJECT MANAGER <b>S. SHAFER</b>		DRAWN BY <b>KO</b>		SCALE <b>1" = 50'</b>	
FA PROJECT NO. <b>200251</b>		PROJECT MANAGER <b>S. SHAFER</b>		DRAWN BY <b>KO</b>		SCALE <b>1" = 50'</b>	
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PROJECT <b>WELCOME SOLAR, LLC</b> WEST SALEM TOWNSHIP MERCER COUNTY, PA		TITLE OF DRAWING <b>DESIGN SHEET C-12</b>		DRAWING NO. <b>C-12</b>		SHEET 26 OF 40	

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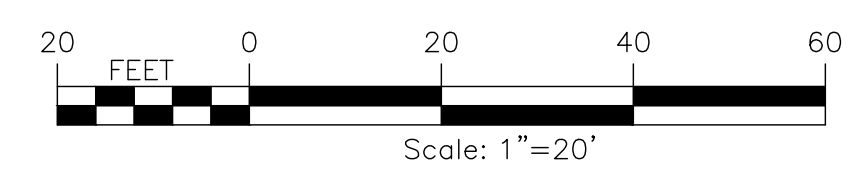


				
PROJECT: WELCOME SOLAR, LLC WEST SALEM TOWNSHIP MERCER COUNTY, PA		FA PROJECT NO. 200251 PROJECT MANAGER S. SHAFER		
TITLE OF DRAWING: GRADING INDEX PLAN		DRAWN BY: KO SCALE: AS SHOWN		
DRAWING NO. <b>G-00</b>		ISSUE DATE 08/07/2020		
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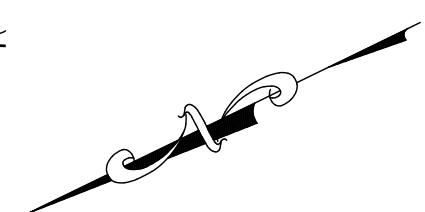
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 USER: Joseph Lower



- NOTES:**
1. ALL PROPOSED ELECTRICAL LINES ARE APPROXIMATE LOCATIONS. FINAL LOCATIONS TO BE COORDINATED DURING CONSTRUCTION DESIGN.
  2. ELECTRICAL EQUIPMENT, INCLUDING INVERTERS, SHALL BE DESIGNED AND SPECIFIED BY THE ELECTRICAL ENGINEER OR OWNER.
  3. PROPOSED GRAVEL SUBSTATION PAD SHALL BE GRADED AT A MAXIMUM OF 2.0%.
  4. ALL GRADING AND DISTURBANCE SHALL REMAIN OFF ANY EXISTING ROADWAY OR ELECTRIC RIGHT-OF-WAY EASEMENTS.



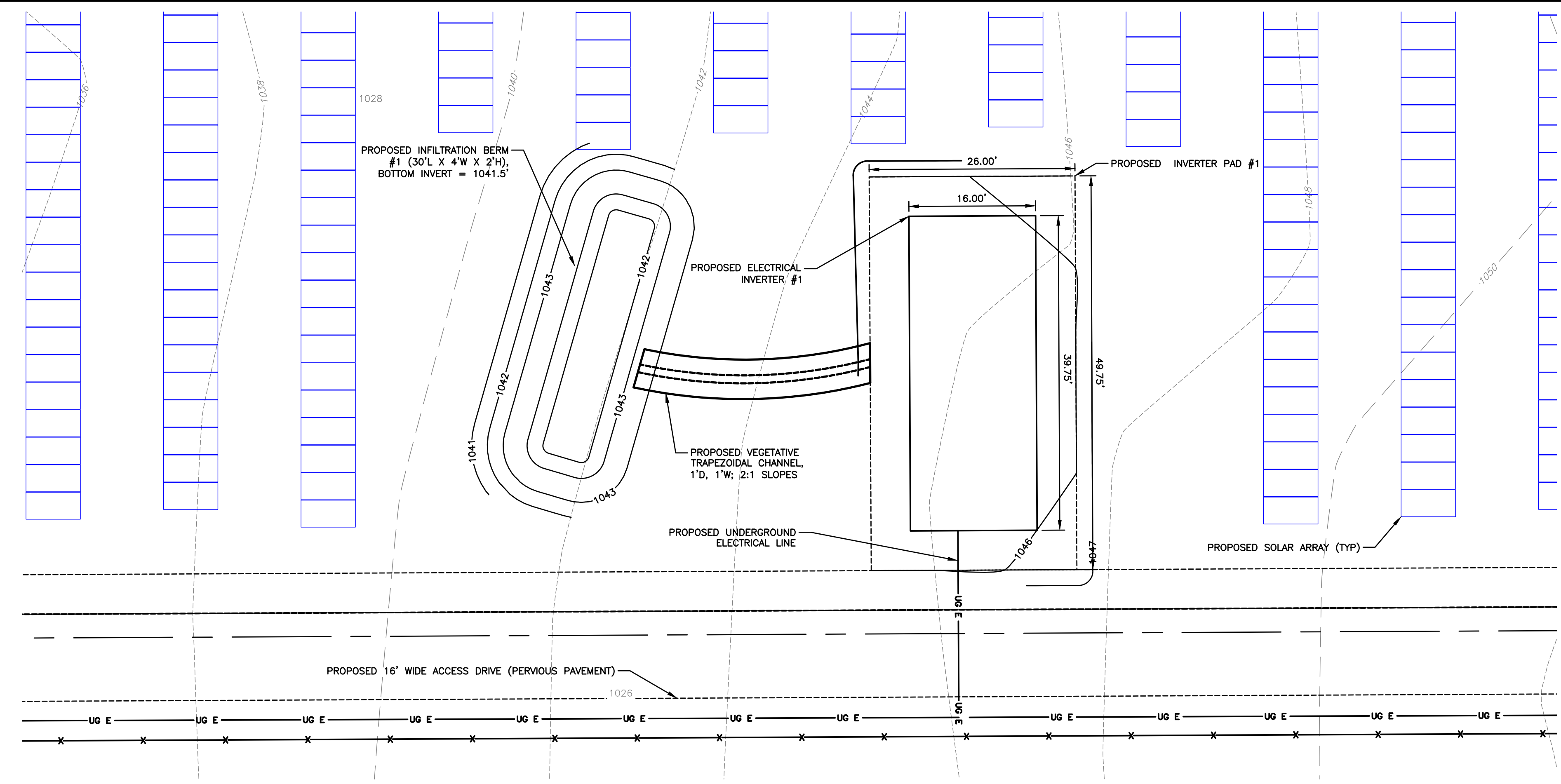
SUBSTATION GRADING PLAN VIEW



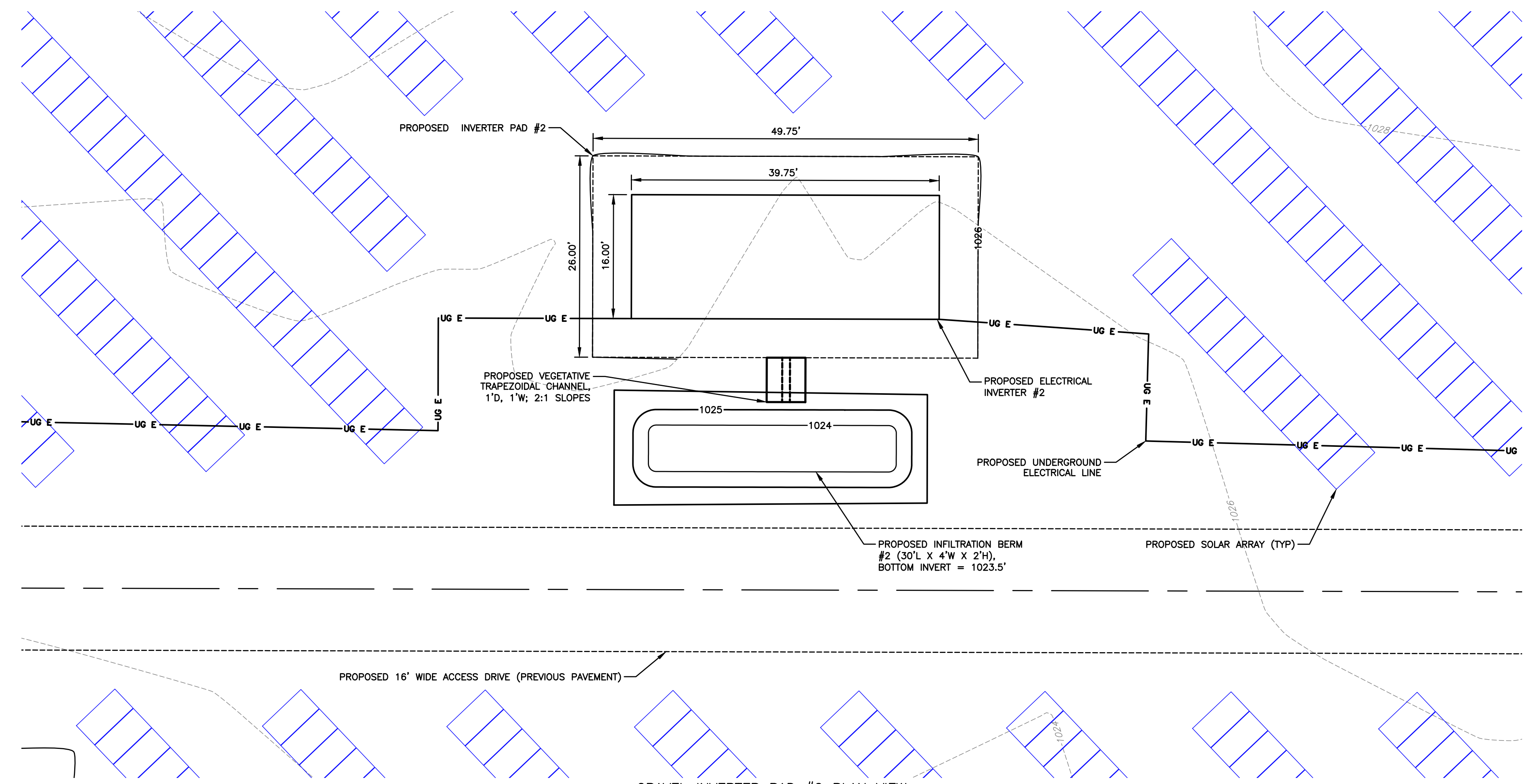
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FA PROJECT NO. 200251		PROJECT MANAGER S. SHAFER		ISSUE DATE 08/07/2020	
DESIGNER KO		SCALE AS SHOWN		AS SHOWN	
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7	REV	DESCRIPTION	DATE	BY	
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5					
4					
3		FINAL PLANS TO MCRPC	8/13/2021	JEC	
2		MERCER CCD TDL COMMENTS	4/16/2021	JML	
1		TWP. & CO. REVIEW COMMENTS	12/30/2020	JEC	



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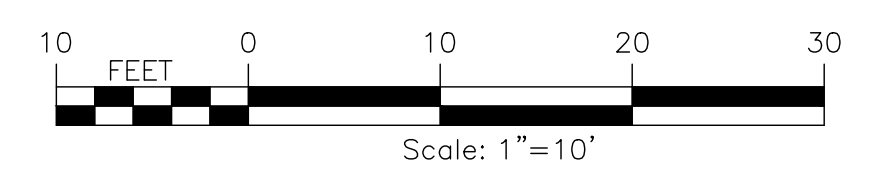


GRAVEL INVERTER PAD #1 PLAN VIEW



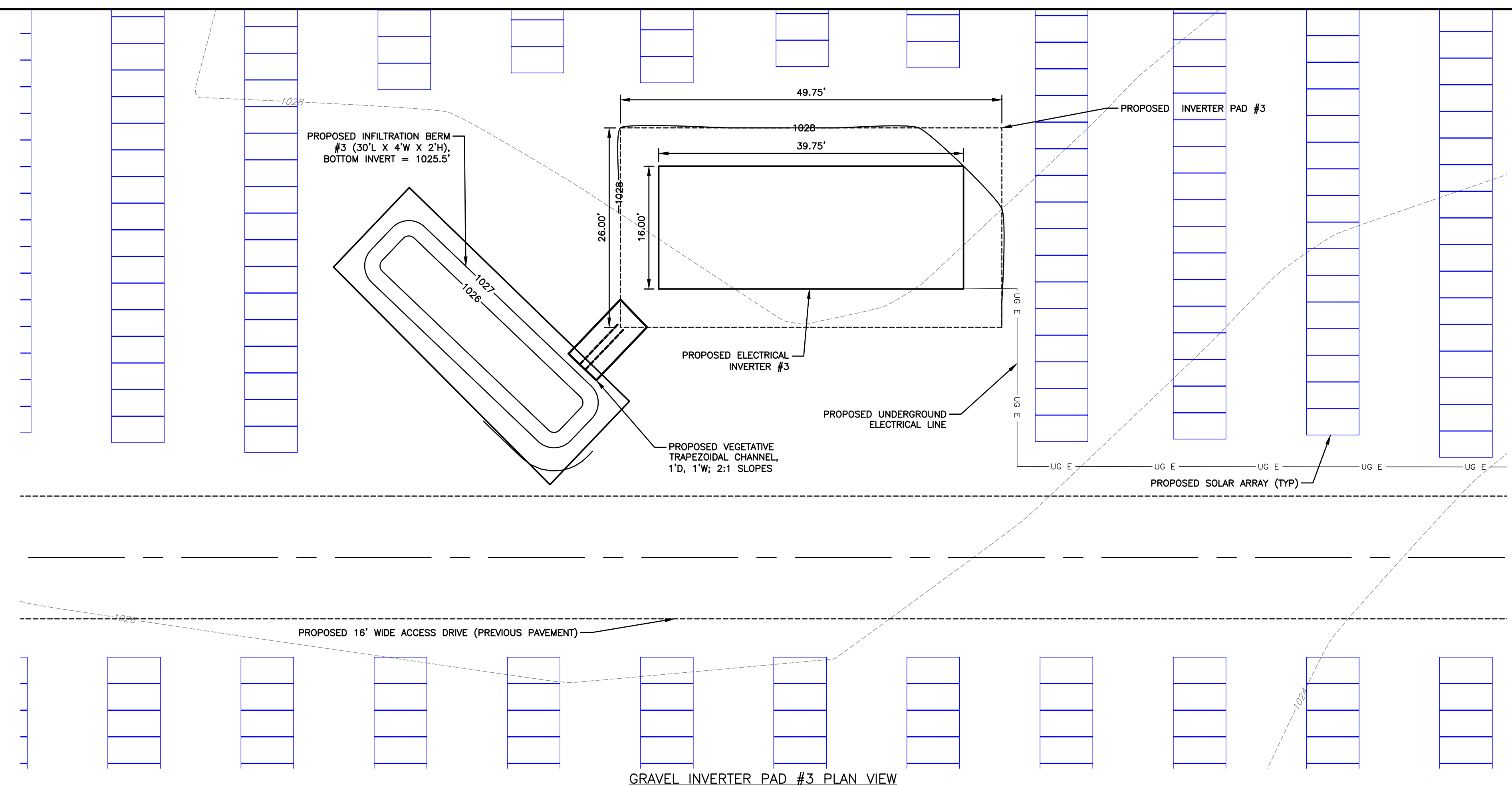
GRAVEL INVERTER PAD #2 PLAN VIEW

- NOTES:**
1. ALL PROPOSED ELECTRICAL LINES ARE APPROXIMATE LOCATIONS. FINAL LOCATIONS TO BE COORDINATED DURING CONSTRUCTION DESIGN.
  2. ELECTRICAL EQUIPMENT, INCLUDING INVERTERS, SHALL BE DESIGNED AND SPECIFIED BY THE ELECTRICAL ENGINEER OR OWNER.
  3. PROPOSED GRAVEL INVERTER PADS SHALL NOT EXCEED 1% SLOPE.

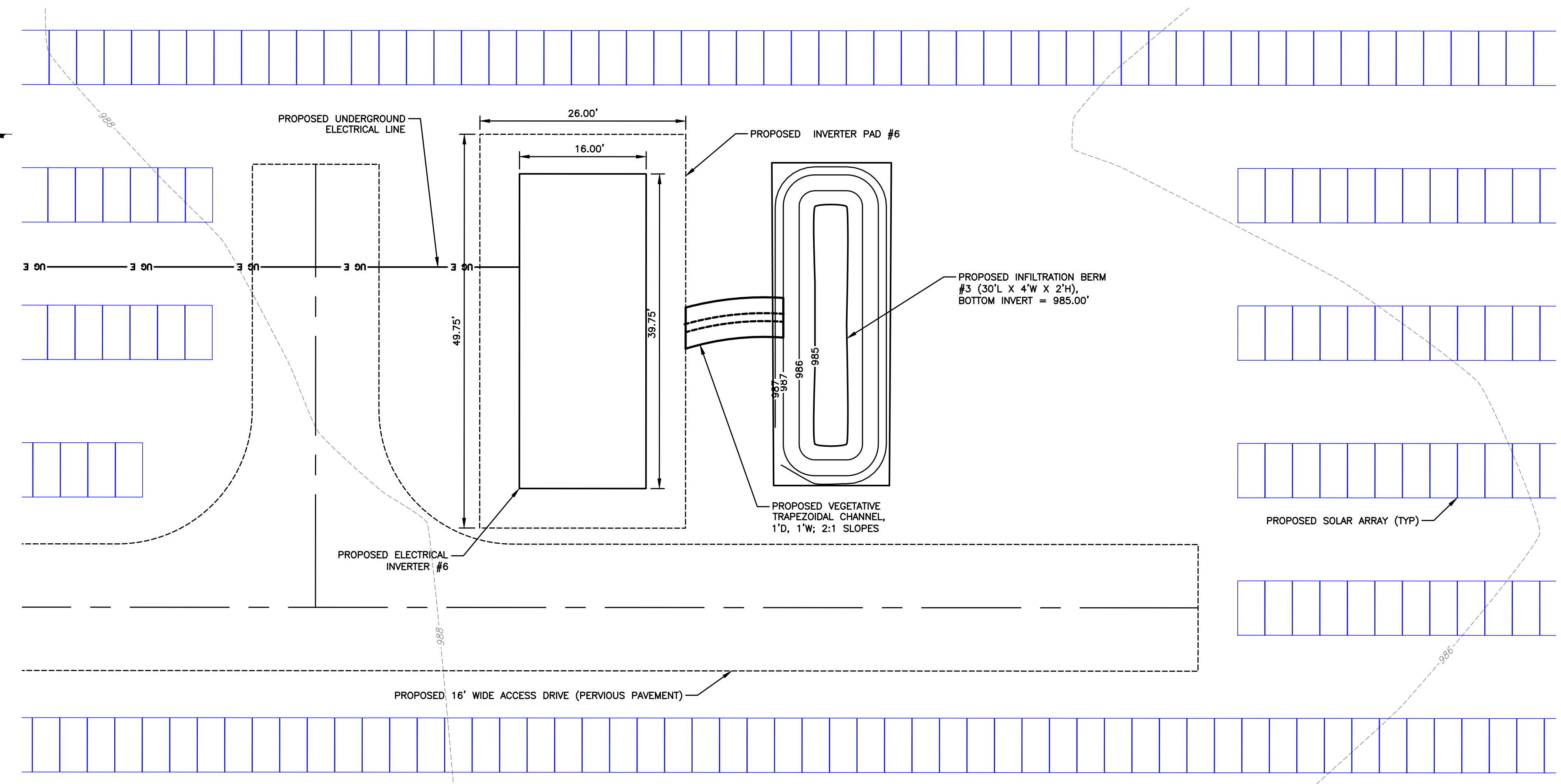


PROJECT WELCOME SOLAR, LLC WEST SALEM TOWNSHIP MERCER COUNTY, PA		TITLE OF DRAWING INVERTER GRADING PLANS	
DRAWING NO. <b>G-02</b>		SHEET 29 OF 40	
PROJECT MANAGER S. SHAFER		ISSUE DATE 08/07/2020	
DRAWN BY KO		SCALE AS SHOWN	
FA PROJECT NO. 200251		REV 7 6 5 4 3 2 1	
DESCRIPTION FINAL PLANS TO MCRPC MERCER CCD TDL COMMENTS TWP. & CO. REVIEW COMMENTS		DATE 8/13/2021 4/16/2021 12/30/2020	
BY JEC		JEC	
JML		JML	
JEC		JEC	
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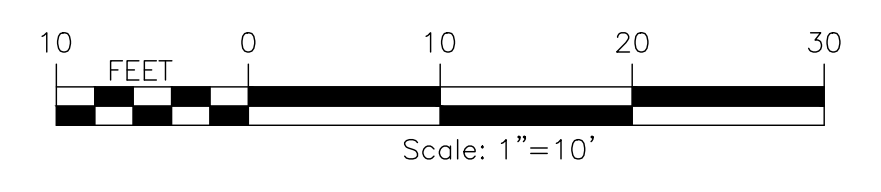


GRAVEL INVERTER PAD #3 PLAN VIEW



GRAVEL INVERTER PAD #6 PLAN VIEW

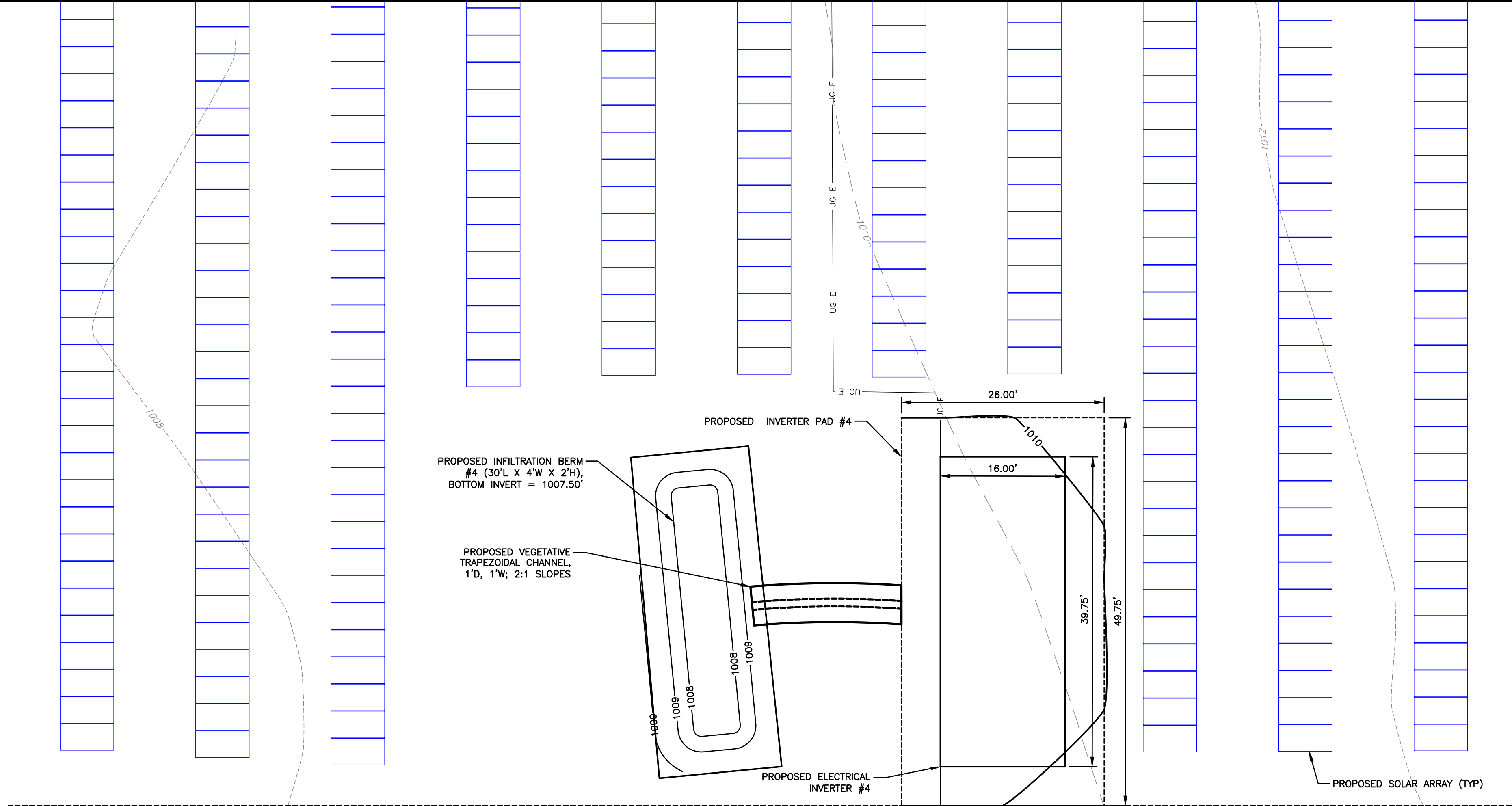
- NOTES:**
1. ALL PROPOSED ELECTRICAL LINES ARE APPROXIMATE LOCATIONS. FINAL LOCATIONS TO BE COORDINATED DURING CONSTRUCTION DESIGN.
  2. ELECTRICAL EQUIPMENT, INCLUDING INVERTERS, SHALL BE DESIGNED AND SPECIFIED BY THE ELECTRICAL ENGINEER OR OWNER.
  3. PROPOSED GRAVEL INVERTER PADS SHALL NOT EXCEED 1% SLOPE.



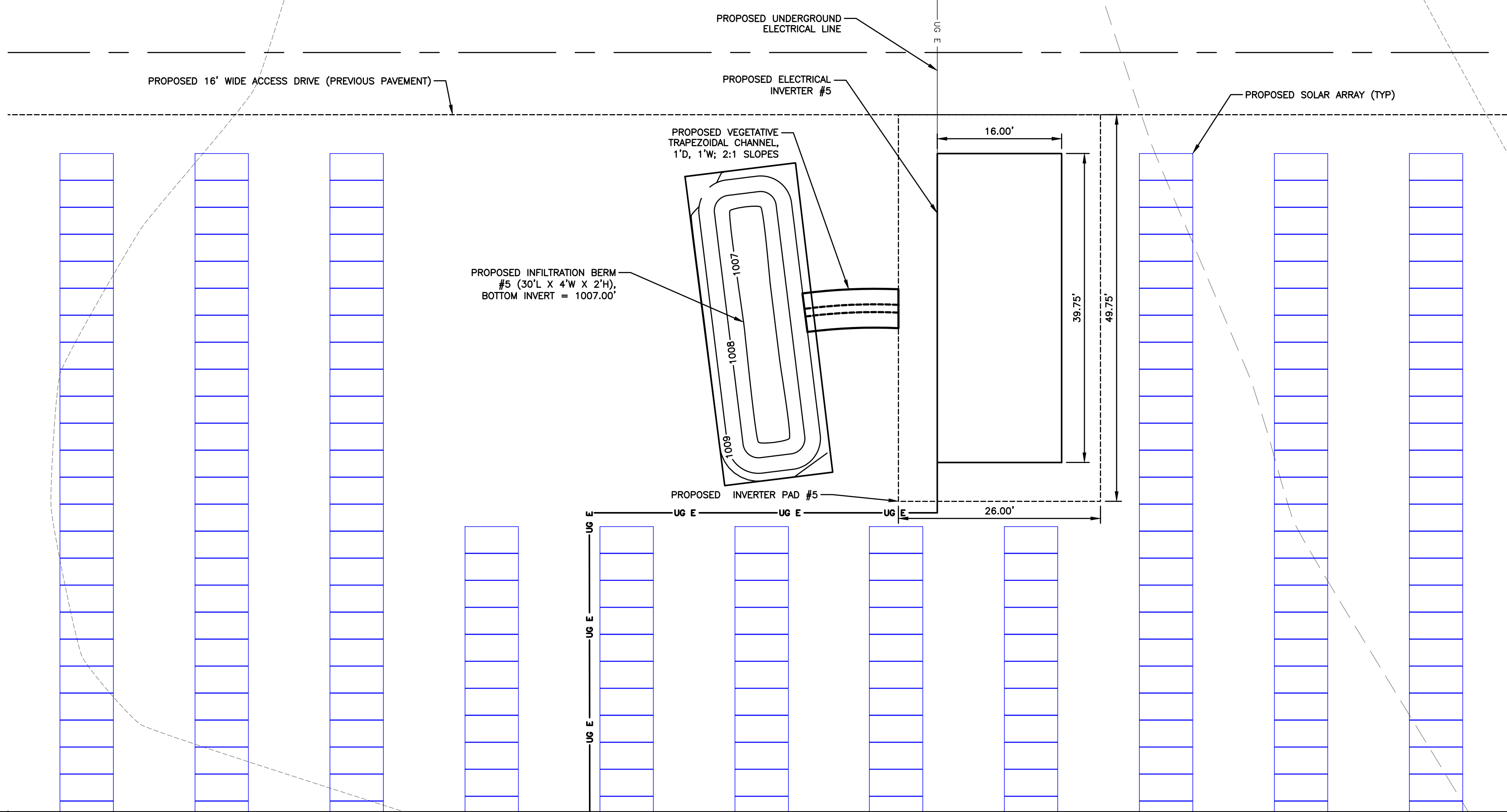
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DRAWING NO. <b>G-03</b>		SHEET 30 OF 40		
PROJECT NO. 200251		PROJECT MANAGER S. SHAFER		
DRAWN BY KO		SCALE AS SHOWN		
ISSUE DATE 08/07/2020		AS SHOWN		
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7	REV	DESCRIPTION	DATE	BY
6				
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3		FINAL PLANS TO MCRPC	8/13/2021	JEC
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1		TWP. & CO. REVIEW COMMENTS	12/30/2020	JEC

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GRAVEL INVERTER PAD #4 PLAN VIEW

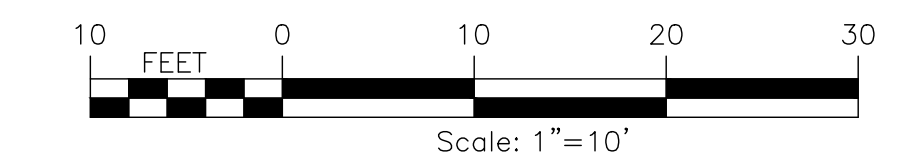


GRAVEL INVERTER PAD #5 PLAN VIEW



NOTES:

1. ALL PROPOSED ELECTRICAL LINES ARE APPROXIMATE LOCATIONS. FINAL LOCATIONS TO BE COORDINATED DURING CONSTRUCTION DESIGN.
2. ELECTRICAL EQUIPMENT, INCLUDING INVERTERS, SHALL BE DESIGNED AND SPECIFIED BY THE ELECTRICAL ENGINEER OR OWNER.
3. PROPOSED GRAVEL INVERTER PADS SHALL NOT EXCEED 1% SLOPE.



PROJECT WELCOME SOLAR, LLC WEST SALEM TOWNSHIP MERCER COUNTY, PA		TITLE OF DRAWING INVERTER GRADING PLANS		DRAWING NO. <b>G-04</b>	
PROJECT NO. 200251		PROJECT MANAGER S. SHAFER		ISSUE DATE 08/07/2020	
DRAWN BY KO		SCALE AS SHOWN		DATE 12/30/2020	
DESIGNER KO		AS SHOWN		BY JEC	
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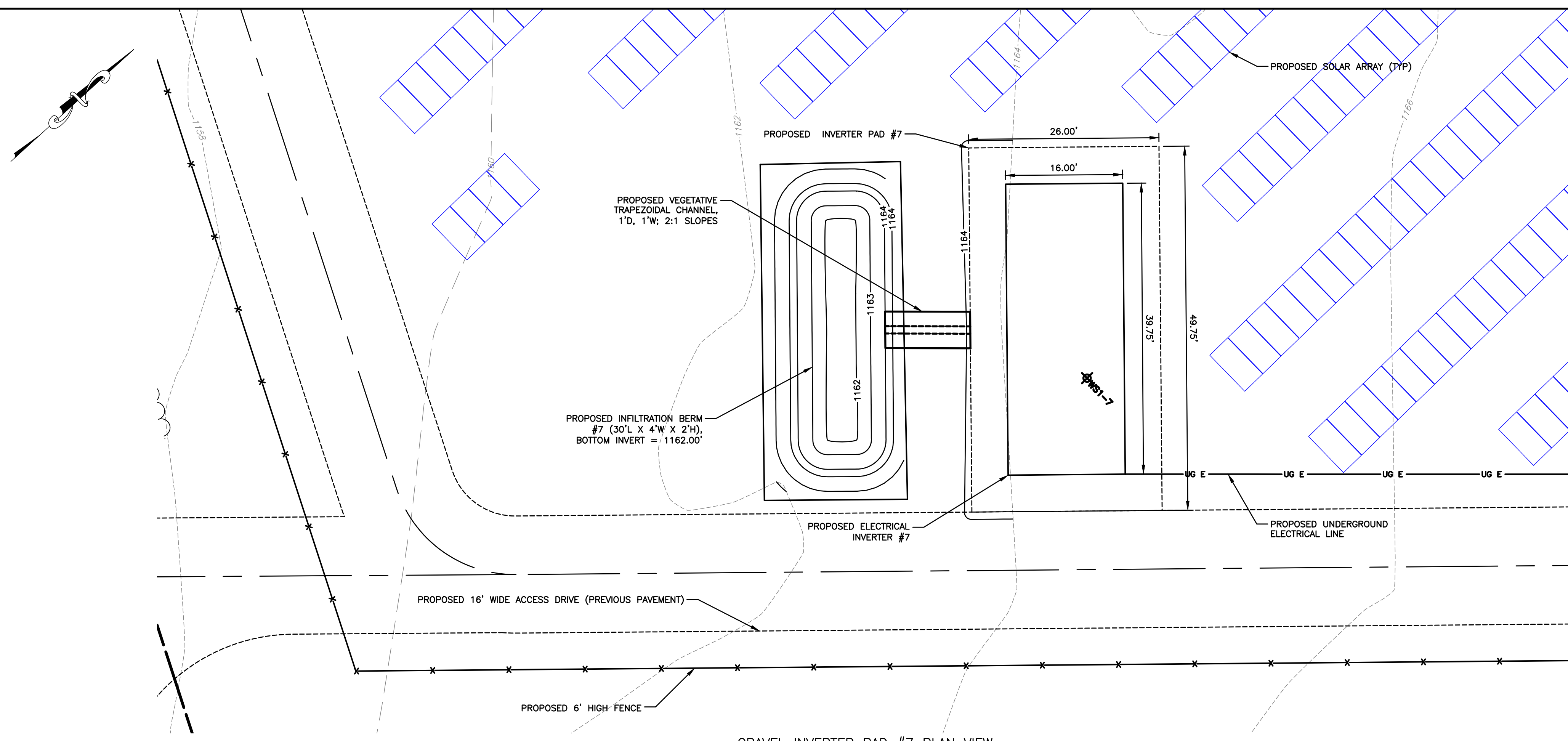
PROJECT  
 WELCOME SOLAR, LLC  
 WEST SALEM TOWNSHIP  
 MERCER COUNTY, PA

TITLE OF DRAWING  
 INVERTER GRADING PLANS

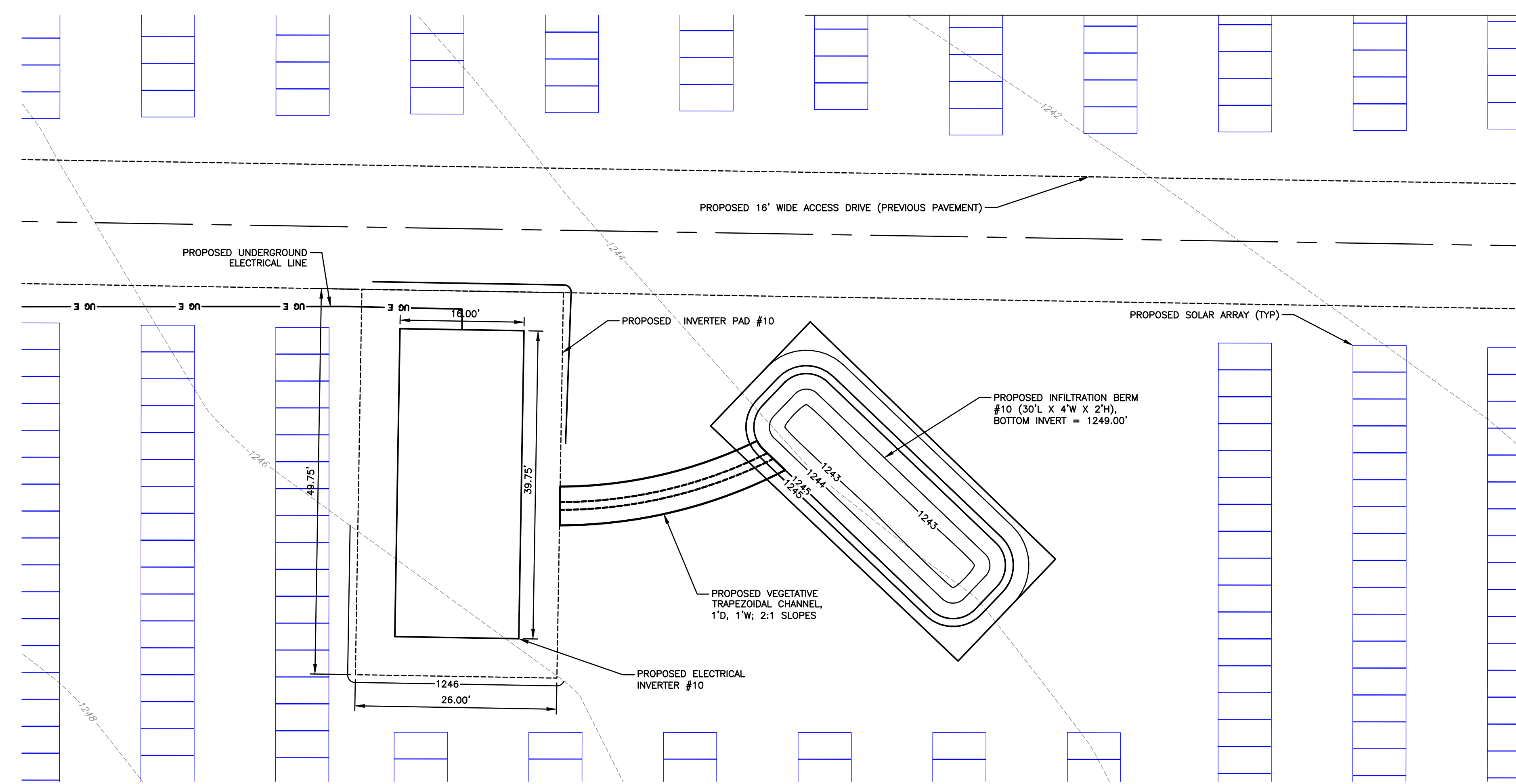
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SHEET 31 OF 40

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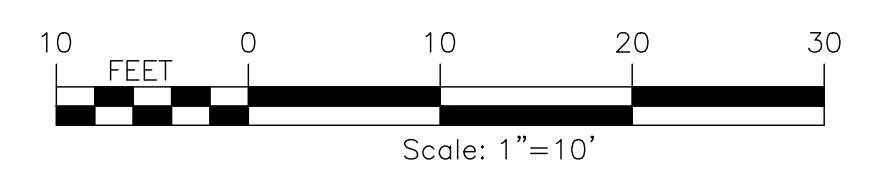


GRAVEL INVERTER PAD #7 PLAN VIEW



GRAVEL INVERTER PAD #10 PLAN VIEW

- NOTES:
1. ALL PROPOSED ELECTRICAL LINES ARE APPROXIMATE LOCATIONS. FINAL LOCATIONS TO BE COORDINATED DURING CONSTRUCTION DESIGN.
  2. ELECTRICAL EQUIPMENT, INCLUDING INVERTERS, SHALL BE DESIGNED AND SPECIFIED BY THE ELECTRICAL ENGINEER OR OWNER.
  3. PROPOSED GRAVEL INVERTER PADS SHALL NOT EXCEED 1% SLOPE.

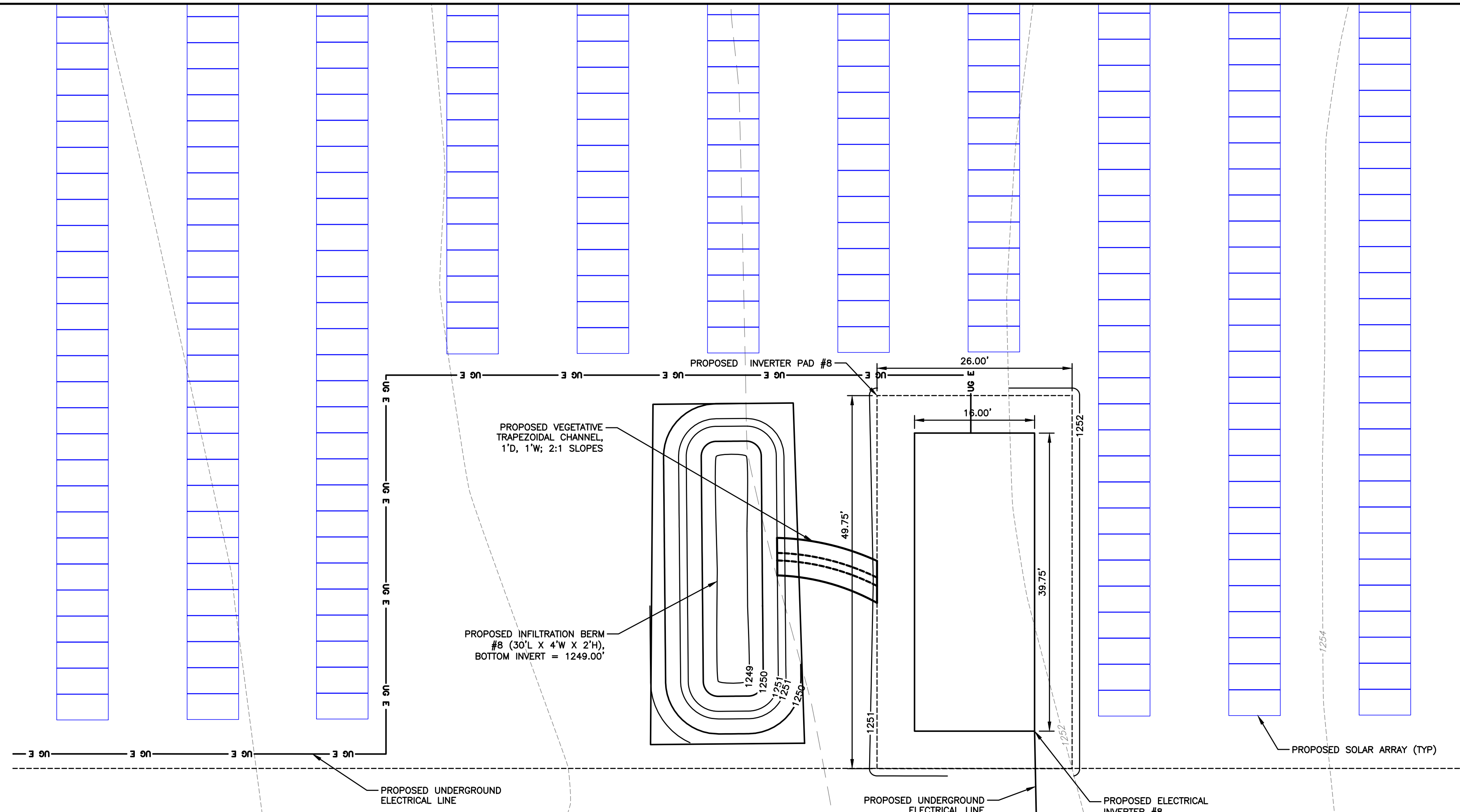


PROJECT WELCOME SOLAR, LLC WEST SALEM TOWNSHIP MERCER COUNTY, PA		TITLE OF DRAWING INVERTER GRADING PLANS		DRAWING NO. <b>G-05</b>		SHEET 32 OF 40	
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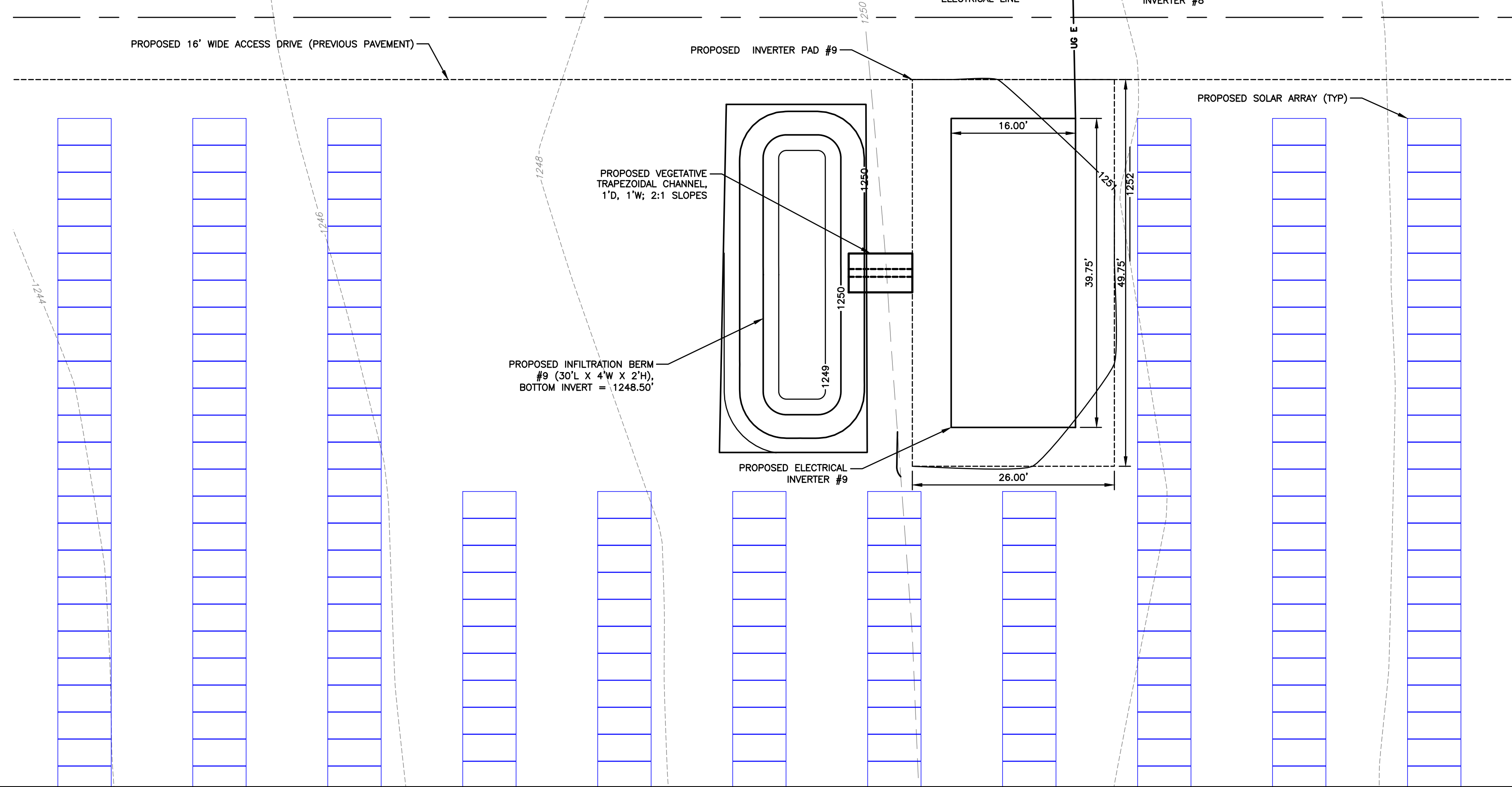


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GRAVEL INVERTER PAD #8 PLAN VIEW

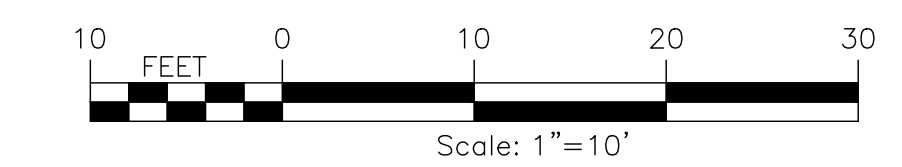


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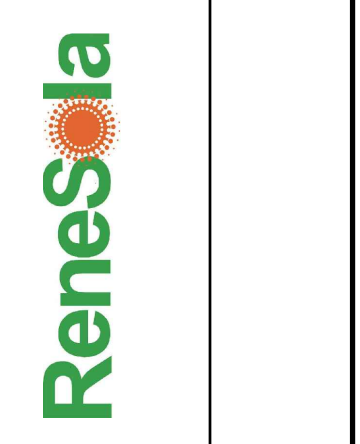


NOTES:

1. ALL PROPOSED ELECTRICAL LINES ARE APPROXIMATE LOCATIONS. FINAL LOCATIONS TO BE COORDINATED DURING CONSTRUCTION DESIGN.
2. ELECTRICAL EQUIPMENT, INCLUDING INVERTERS, SHALL BE DESIGNED AND SPECIFIED BY THE ELECTRICAL ENGINEER OR OWNER.
3. PROPOSED GRAVEL INVERTER PADS SHALL NOT EXCEED 1% SLOPE.

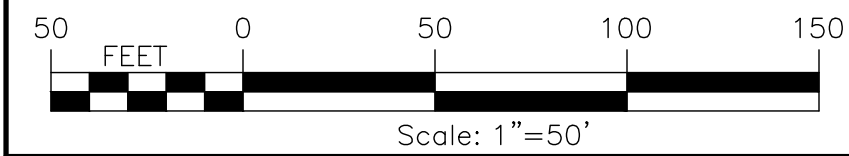


PROJECT WELCOME SOLAR, LLC WEST SALEM TOWNSHIP MERCER COUNTY, PA		TITLE OF DRAWING INVERTER GRADING PLANS		DRAWING NO. <b>G-06</b>	
PROJECT NO. 200251		PROJECT MANAGER S. SHAFER		ISSUE DATE 08/07/2020	
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DATE 12/30/2020		BY JEC		AS SHOWN	

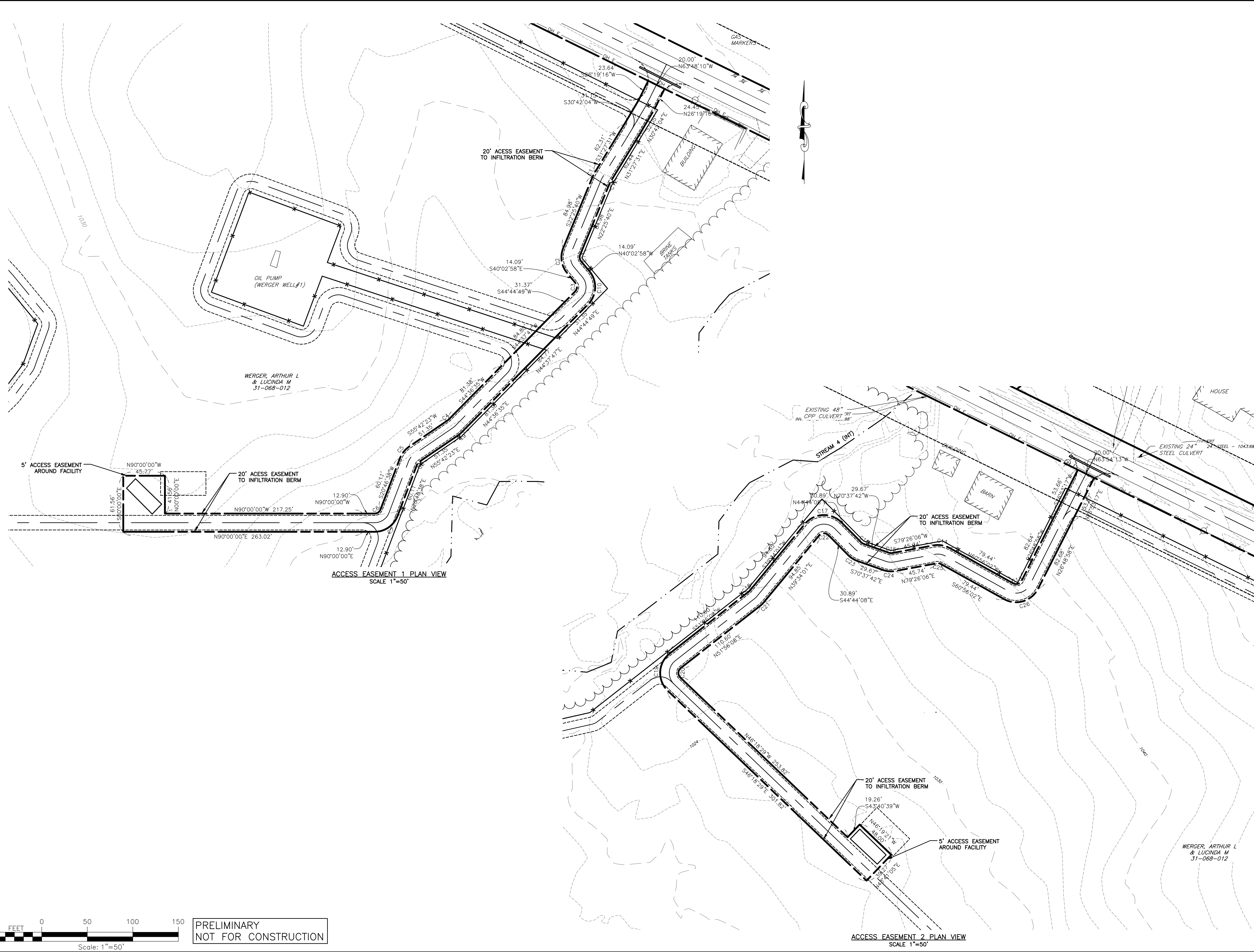



PROJECT  
 WELCOME SOLAR, LLC  
 WEST SALEM TOWNSHIP  
 MERCER COUNTY, PA

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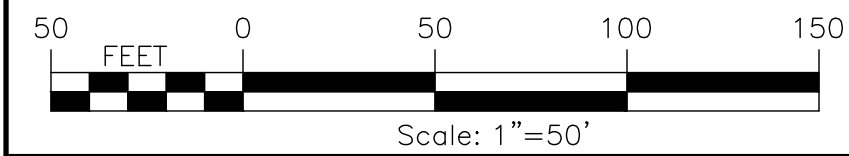


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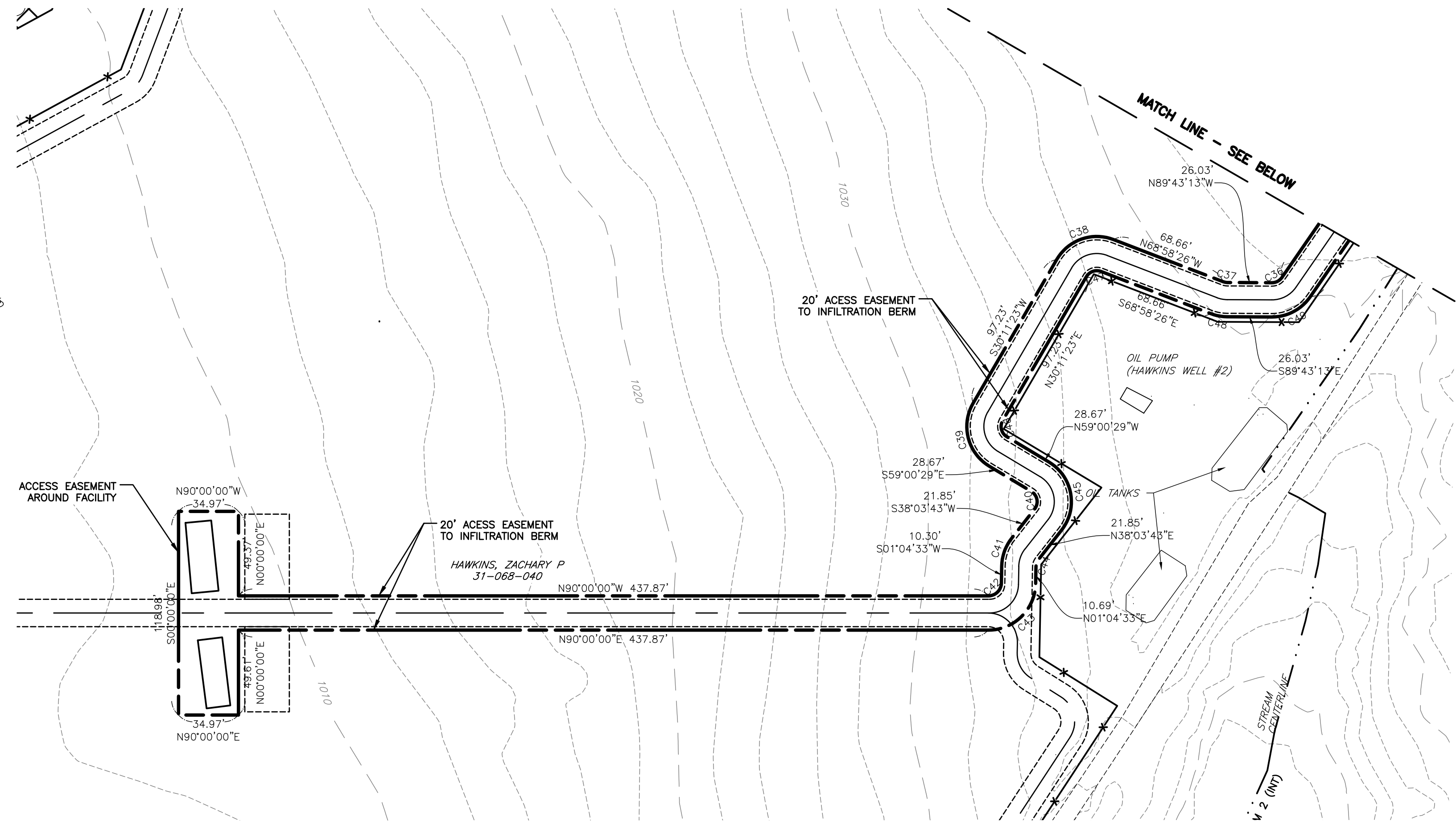


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FA PROJECT NO. 200251 PROJECT MANAGER S. SHAFER		DRAWN BY KO		TITLE OF DRAWING O&M EASEMENT PLAN	
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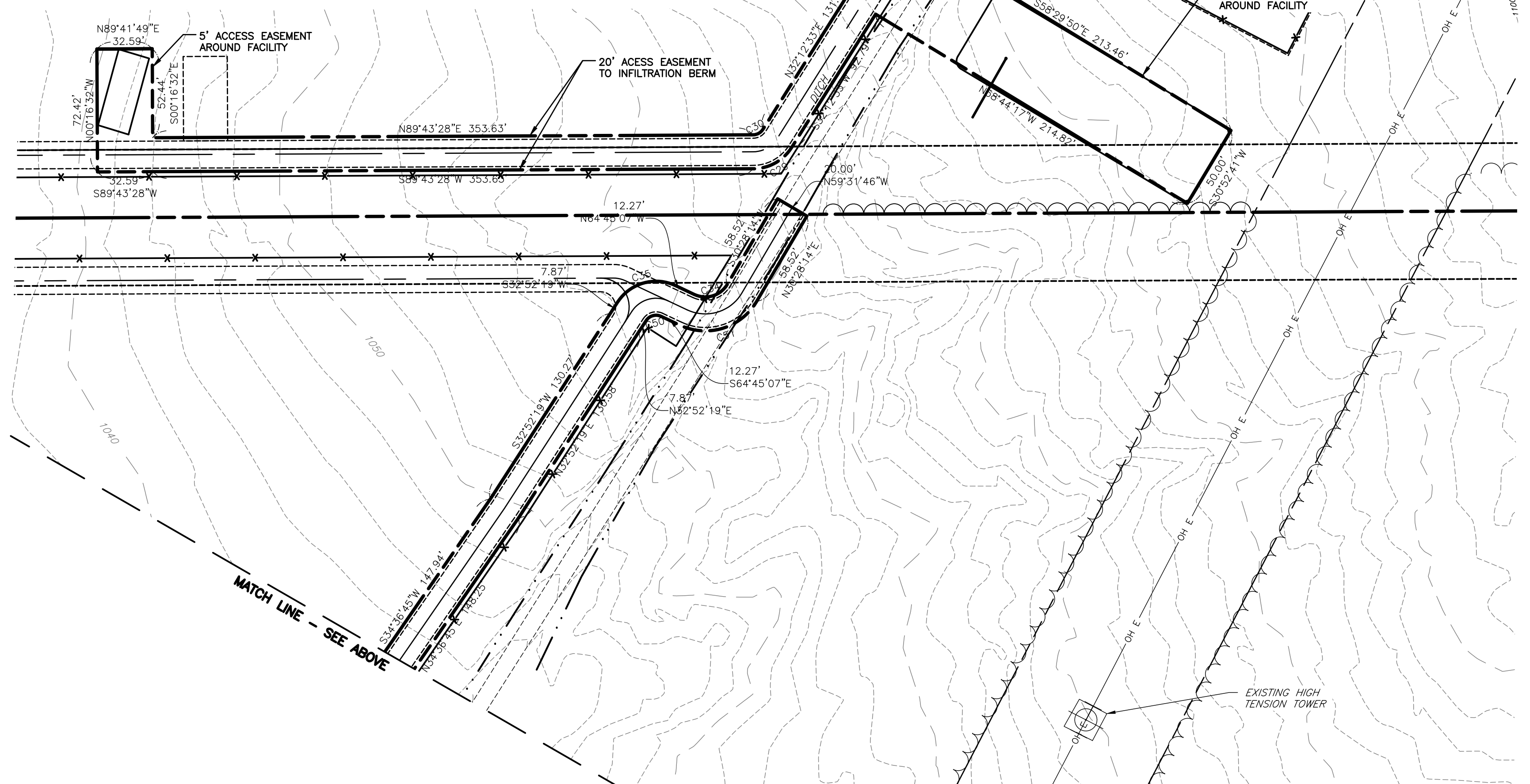
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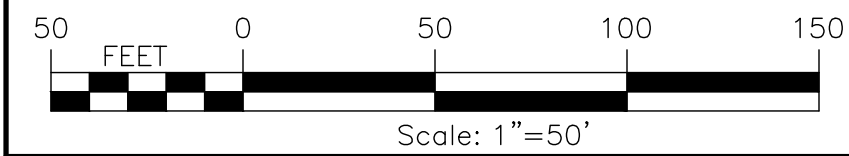
ACCESS EASEMENT\_3 PLAN VIEW  
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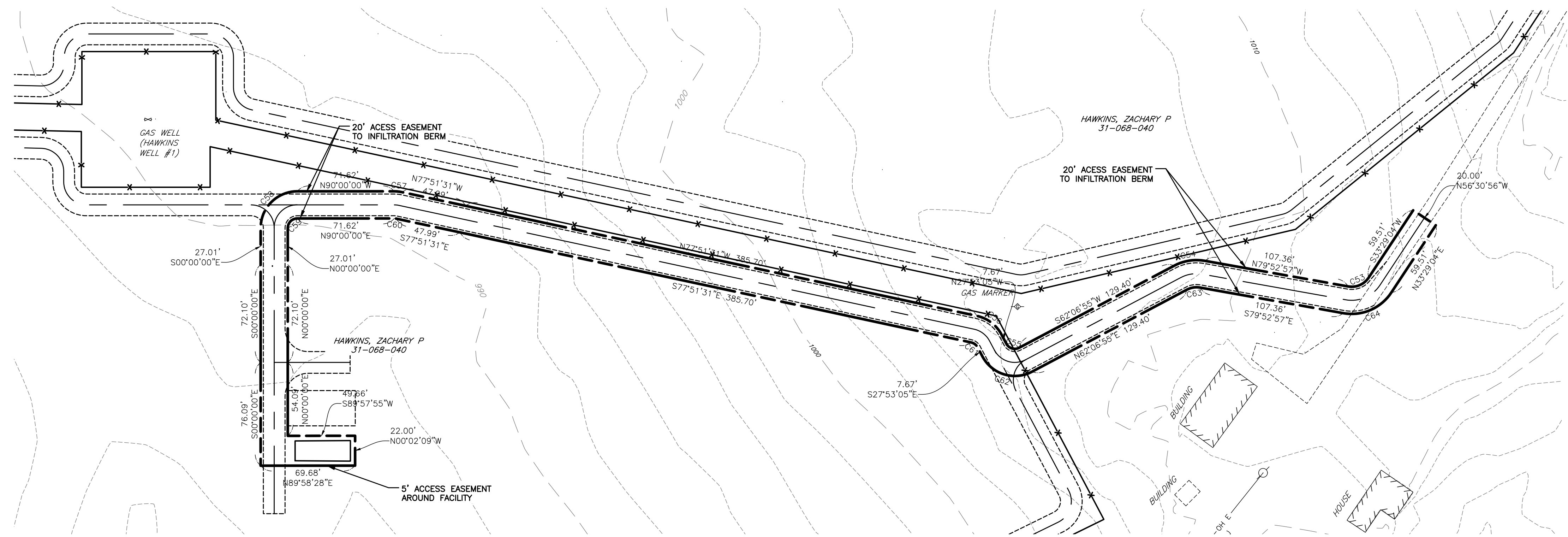
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PROJECT WELCOME SOLAR, LLC WEST SALEM TOWNSHIP MERCER COUNTY, PA		FA PROJECT NO. 200251 PROJECT MANAGER S. SHAFER		
TITLE OF DRAWING O&M EASEMENT PLAN		DRAWN BY KO SCALE AS SHOWN		
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1		TWP. & CO. REVIEW COMMENTS	12/30/2020	JEC

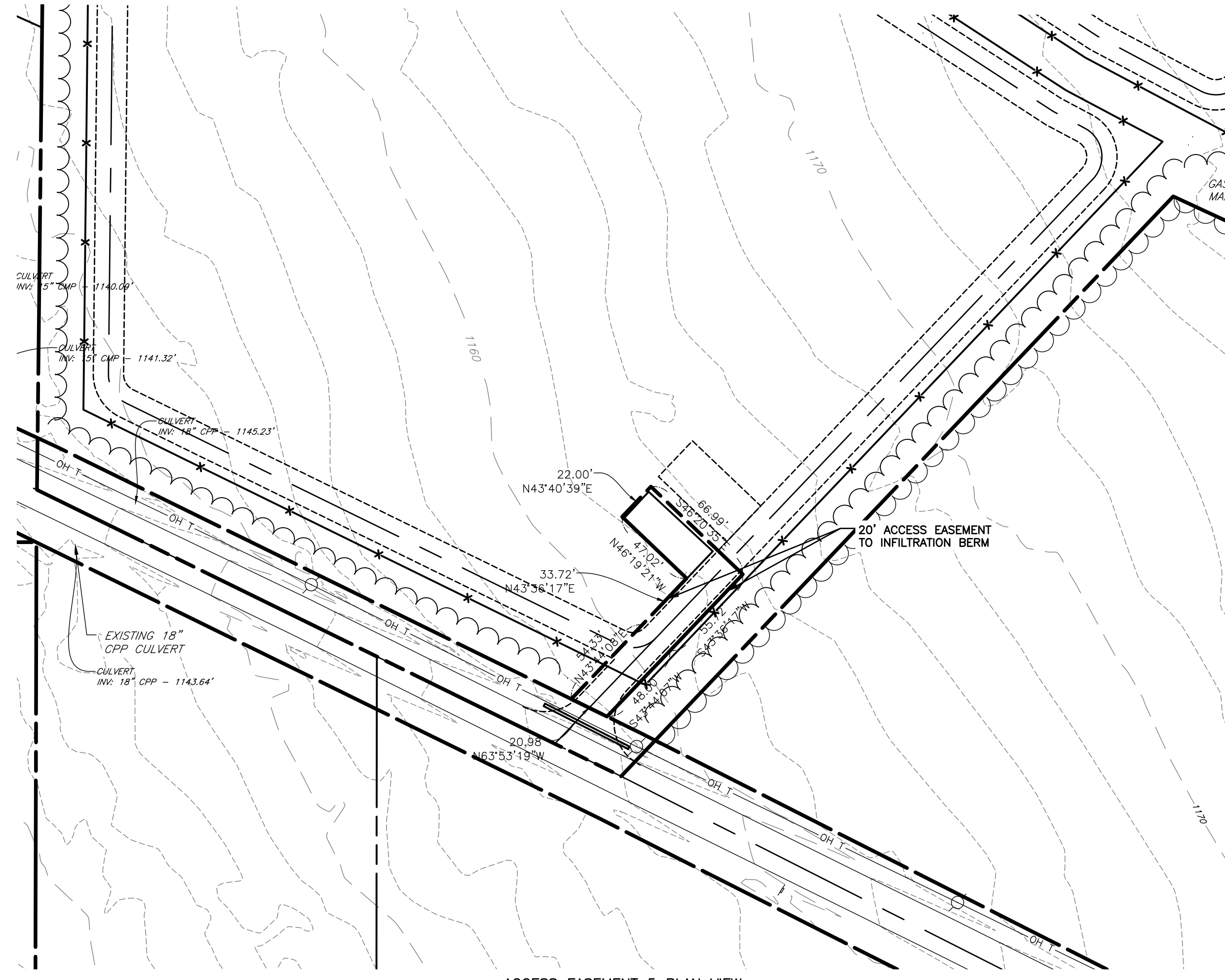
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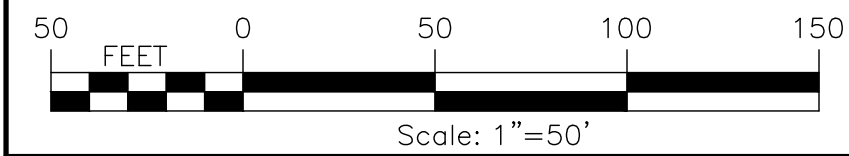
ACCESS EASEMENT 4 PLAN VIEW  
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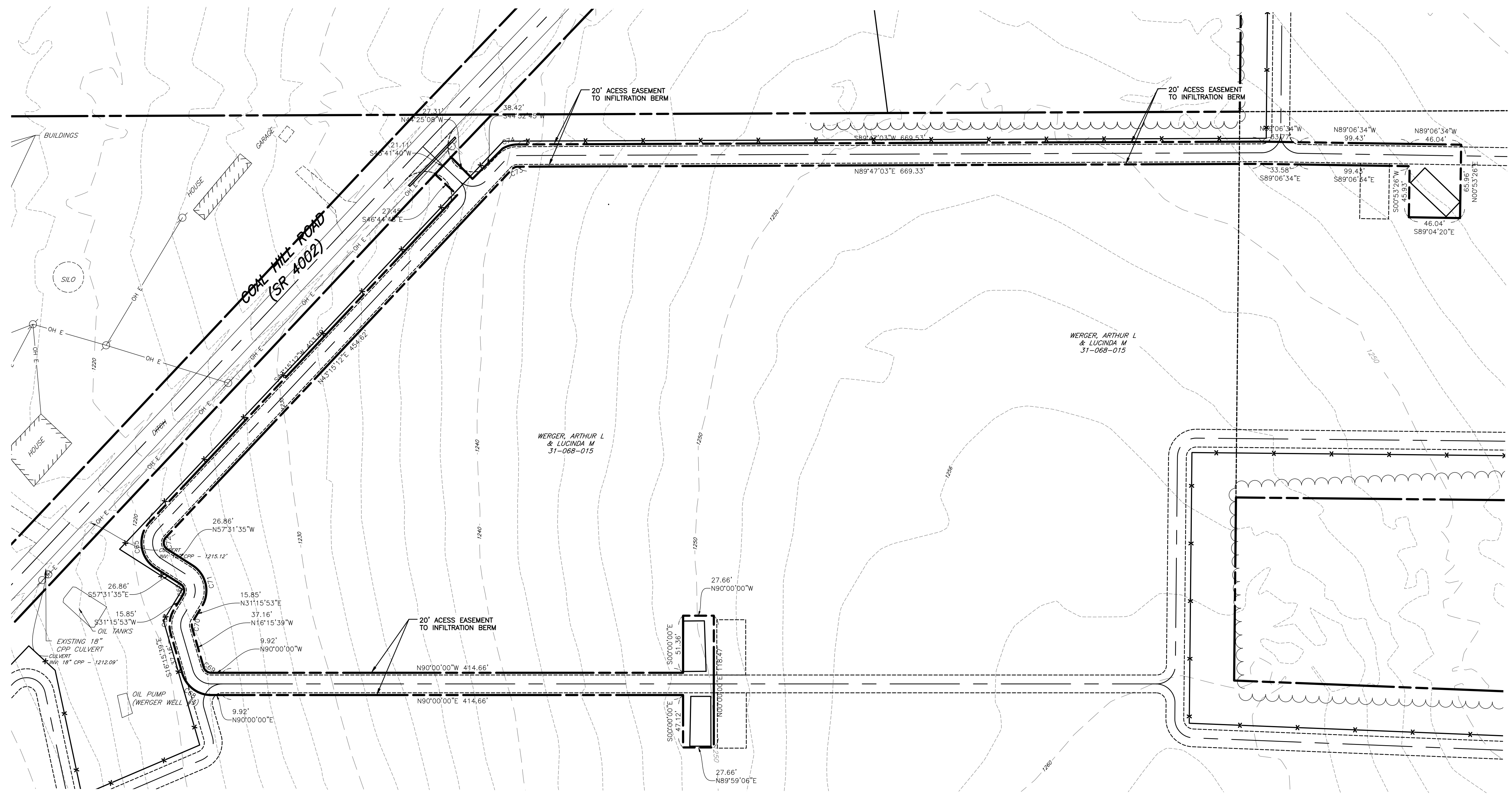
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FA PROJECT NO. <b>200251</b>		PROJECT MANAGER <b>S. SHAFER</b>		DRAWN BY <b>KO</b>		SCALE <b>AS SHOWN</b>	
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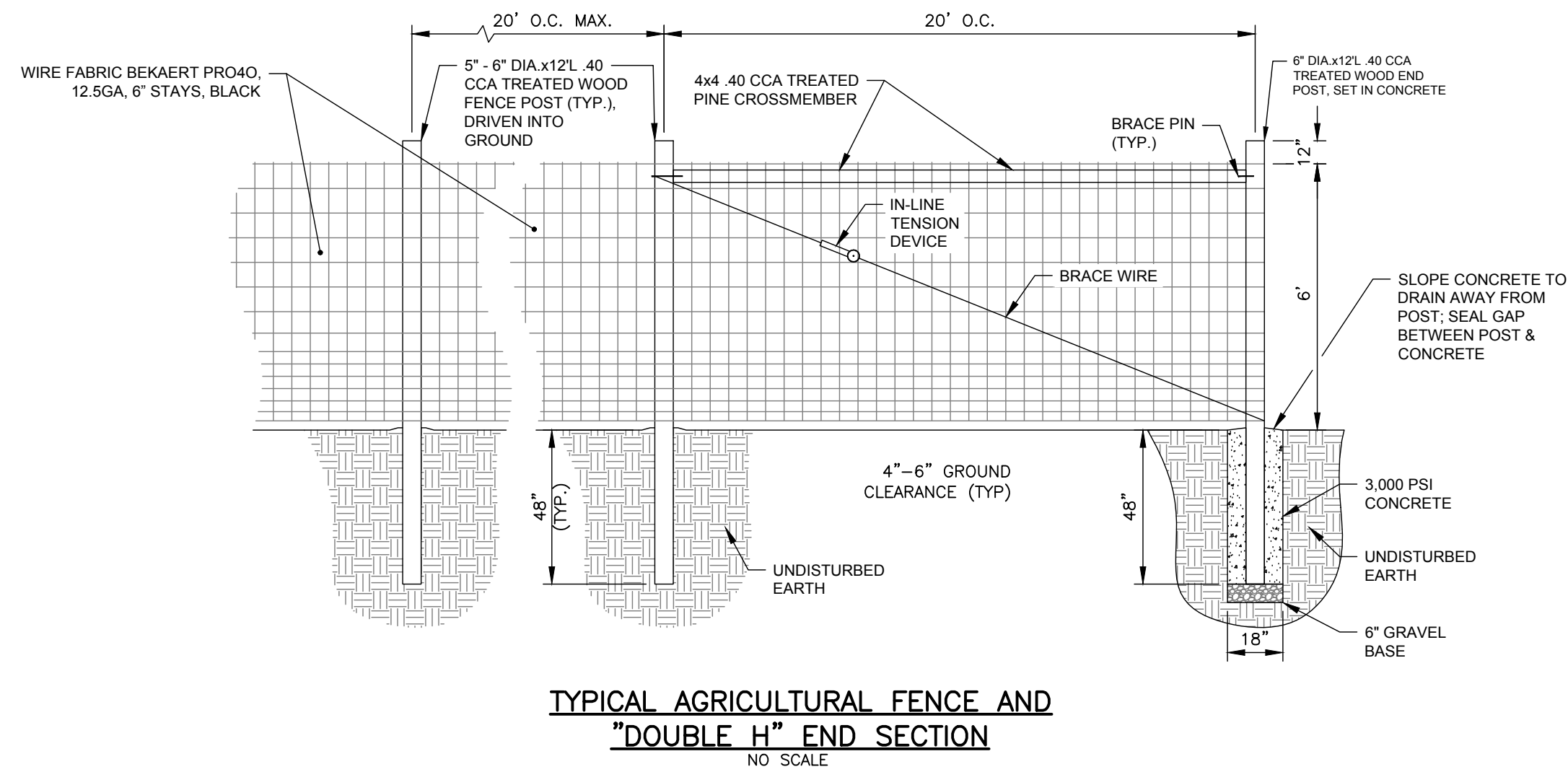


ACCESS EASEMENT 6 PLAN VIEW  
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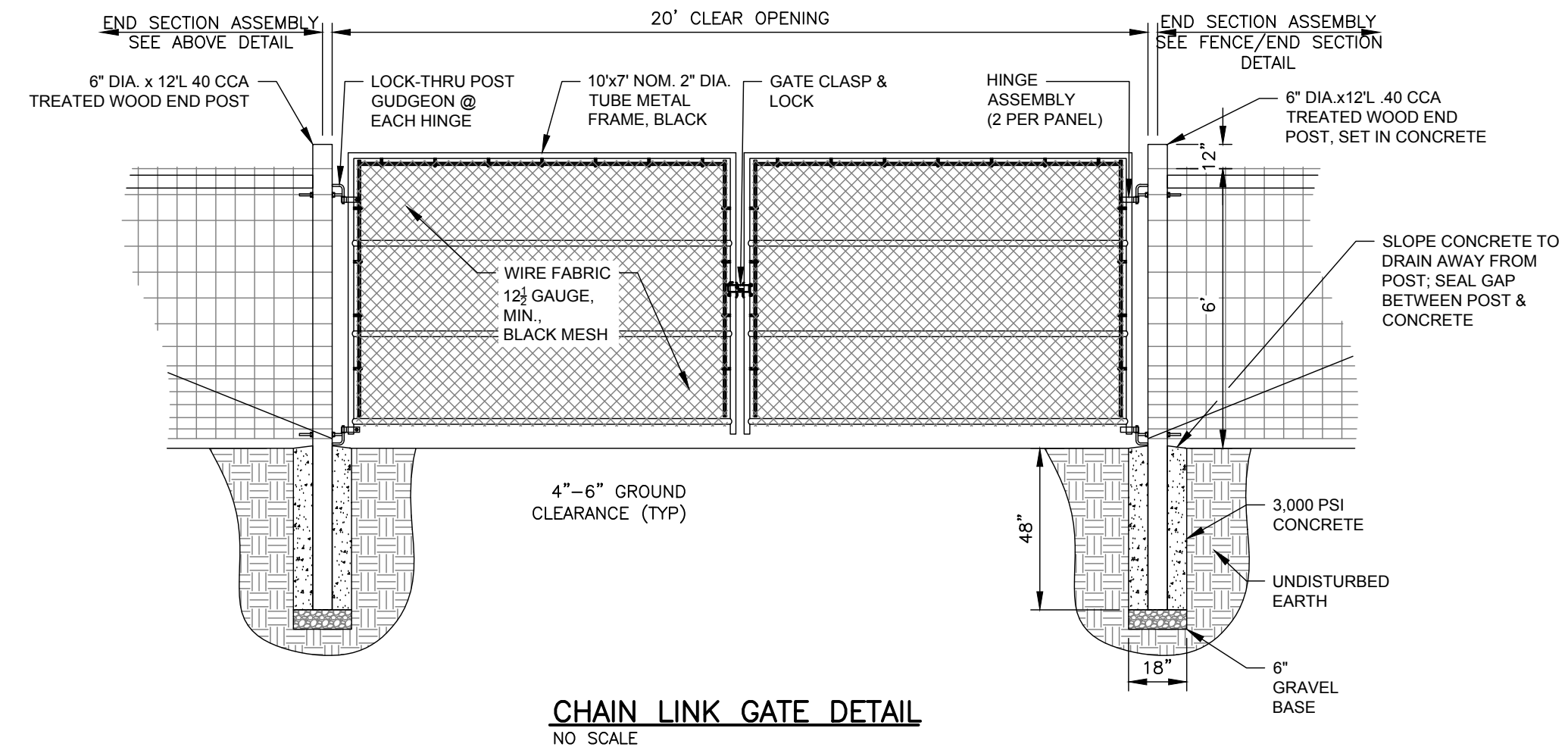


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4		FINAL PLANS TO MCRPC	8/13/2021	JEC	
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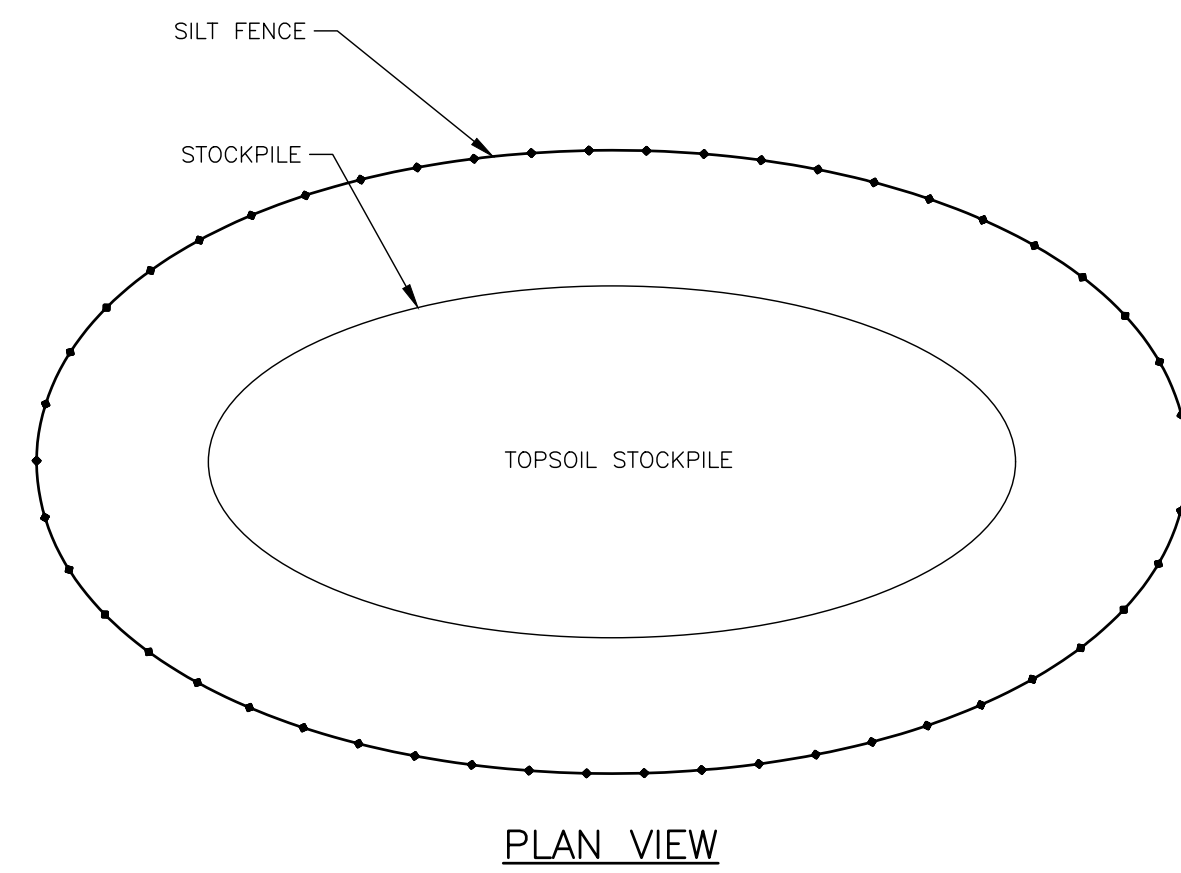




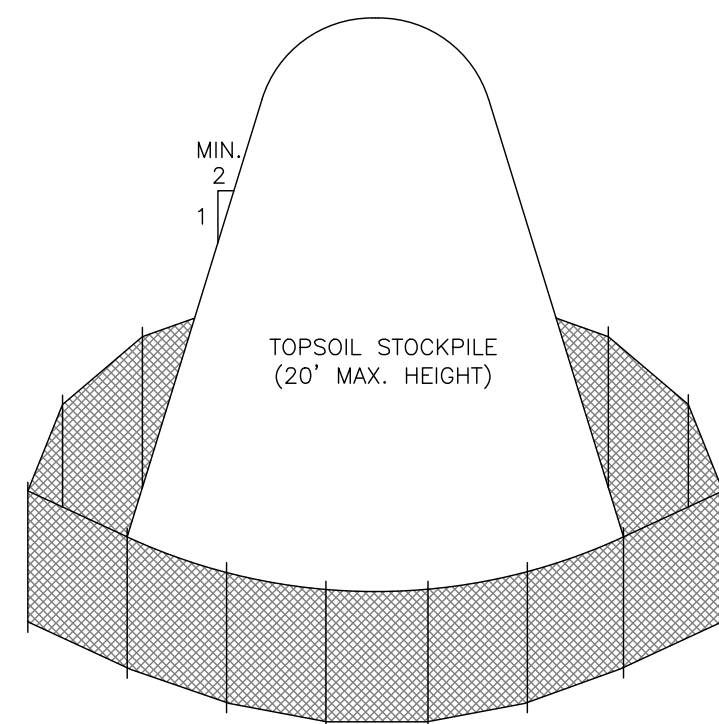
**TYPICAL AGRICULTURAL FENCE AND "DOUBLE H" END SECTION**  
NO SCALE



**CHAIN LINK GATE DETAIL**  
NO SCALE



**PLAN VIEW**

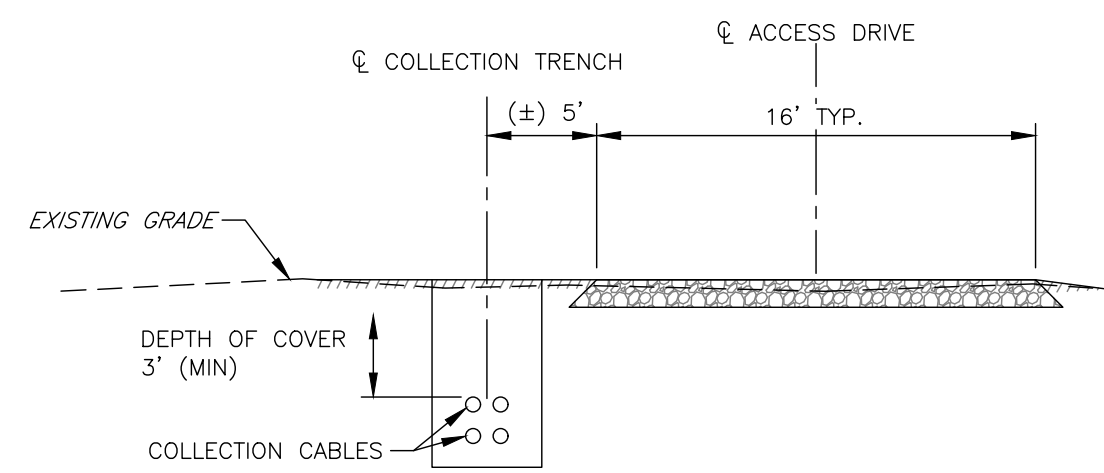


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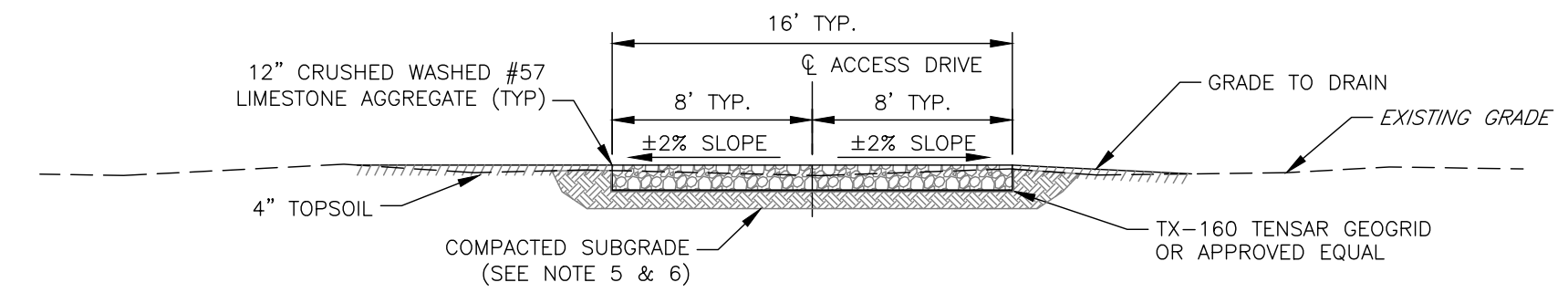
NOTE:

1. SILT FENCE MUST BE PLACED DOWNSLOPE OF ALL TEMPORARY STOCKPILES. IMMEDIATELY APPLY TEMPORARY SEEDING TO ALL STOCKPILES WHICH WILL REMAIN IN PLACE 14 DAYS OR MORE.
2. STOCKPILES SHOULD BE KEPT AT LEAST 100' AWAY FROM ALL WET AND LOWLAND AREAS.
3. STOCKPILES TO BE KEPT AT SAFE DISTANCE FROM ALL OVERHEAD WIRES.
4. STOCKPILE HEIGHT SHOULD NOT EXCEED 20'.

**TEMPORARY TOPSOIL STOCKPILES**  
NOT TO SCALE



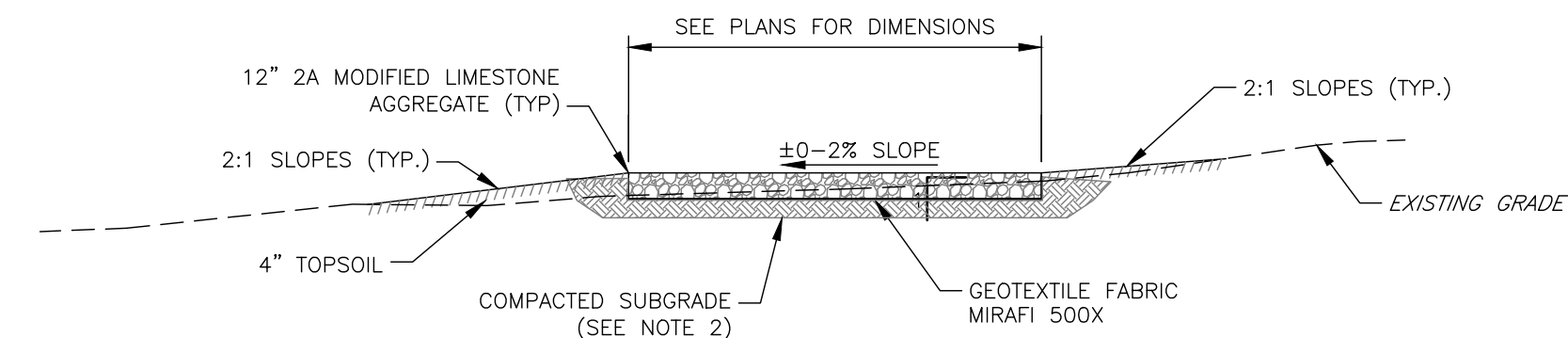
**COLLECTION CABLE INSTALLATION DETAIL ADJACENT TO ACCESS DRIVE**  
NO SCALE



NOTES:

1. TOP OF DRIVE SHALL BE DESIGNED AND PLACED TO MATCH THE ELEVATION OF THE EXISTING GRADE AS SHOWN.
2. LIMITS OF CROSS SLOPES SHALL BE:  
0% - 2% MAX FOR ACCESS DRIVE DURING CONSTRUCTION  
2% - 4% MAX FOR ACCESS DRIVE AFTER CONSTRUCTION
3. WASHED LIMESTONE SHALL BE USED TO ENSURE THERE ARE NO FINES IN THE PAVEMENT SECTION. THIS ENSURES THE AGGREGATE WILL BE FREE DRAINING AND ACT A PVIOUS PAVEMENT SECTION.
4. EXCAVATED TOPSOIL SHALL BE DISTRIBUTED ALONG EITHER SIDE OF THE ACCESS ROAD AND VEGETATED. THE TOPSOIL SHALL BE TAPERED TO THE EXISTING GRADE AND NOT IMPEDE NATURAL DRAINAGE PATTERNS.
5. THE PREPARED SUBGRADE SURFACE IS TO BE VISUALLY OBSERVED, AND ALL DELETERIOUS MATERIALS AND ORGANIC MATTER, ARE TO BE EXCAVATED AND REMOVED. THE EXPOSED SUBGRADE SURFACE IS TO BE COMPACTED AND BE PROOF-ROLLED UNDER THE OBSERVATION OF A QUALIFIED GEOTECHNICAL ENGINEER.
6. IF THE PROOF ROLLING EVALUATION INDICATES ANY OF THE EXISTING SUBGRADES ARE FOUND TO BE IN A LOOSE/SOFT/WET, OR UNSTABLE CONDITION, BASE STABILIZATION COULD BE PROVIDED BENEATH THE ACCESS DRIVE EMBANKMENT FILL AREAS OR POOR SUBGRADE CONDITIONS TO HELP STIFFEN, STABILIZE AND IMPROVE THE SUBGRADE CONDITIONS FOR THE ACCESS DRIVE FILL PLACEMENT AND COMPACTION. THE BASE STABILIZATION SHALL INCLUDE THE PLACEMENT OF A STABILIZATION/SEPARATION GEOTEXTILE FABRIC OVER THE EXPOSED SUBGRADES, FOLLOWING SITE STRIPPING, FOLLOWED BY PLACEMENT OF APPROXIMATELY 2 FEET TO 3 FEET OF A COMPACTED OVERSIZED STRUCTURAL GRANULAR FILL MATERIAL (I.E. WELL GRADED COARSE TO FINE 'SHOT ROCK' OR COARSER CRUSHER RUN STONE, WITH A MAXIMUM PARTICLE SIZE OF ±6-INCHES) OVER THE STABILIZATION GEOTEXTILE. THE OVERSIZED STRUCTURAL GRANULAR FILL MATERIAL SHALL BE FULLY ENCAPSULATE WITH THE GEOTEXTILE FABRIC. A LAYER OF BI-AXIAL GEOTRID (I.E. TENSAR BX-1100 OR SUITABLE EQUIVALENT) MAY BE INCORPORATED OVER THE STABILIZATION GEOTEXTILE TO FURTHER REINFORCE THE BASE STABILIZATION LAYER, IF DEEMED NECESSARY BY THE GEOTECHNICAL ENGINEER.

**ACCESS DRIVE CROSS SECTION DETAIL**  
NO SCALE



NOTES:

1. LIMITS OF CROSS SLOPES SHALL BE:  
0% - 1% MAX FOR INVERTER PADS  
1% - 2% MAX FOR SUBSTATION PAD
2. THE PREPARED SUBGRADE SURFACE IS TO BE VISUALLY OBSERVED, AND ALL DELETERIOUS MATERIALS AND ORGANIC MATTER, ARE TO BE EXCAVATED AND REMOVED. THE EXPOSED SUBGRADE SURFACE IS TO BE COMPACTED AND BE PROOF-ROLLED UNDER THE OBSERVATION OF A QUALIFIED GEOTECHNICAL ENGINEER.
3. EXCAVATED TOPSOIL SHALL BE DISTRIBUTED ALONG EITHER SIDE OF THE ACCESS ROAD AND VEGETATED. THE TOPSOIL SHALL BE TAPERED TO THE EXISTING GRADE AND NOT IMPEDE NATURAL DRAINAGE PATTERNS.
4. EROSION CONTROL BLANKETS SHOULD BE USED TO STABILIZE THE PADS CUT/FILL SLOPES IF THEY ARE MORE THAN 5 FEET.

**INVERTER/ SUBSTATION GRAVEL PAD DETAIL**  
NO SCALE

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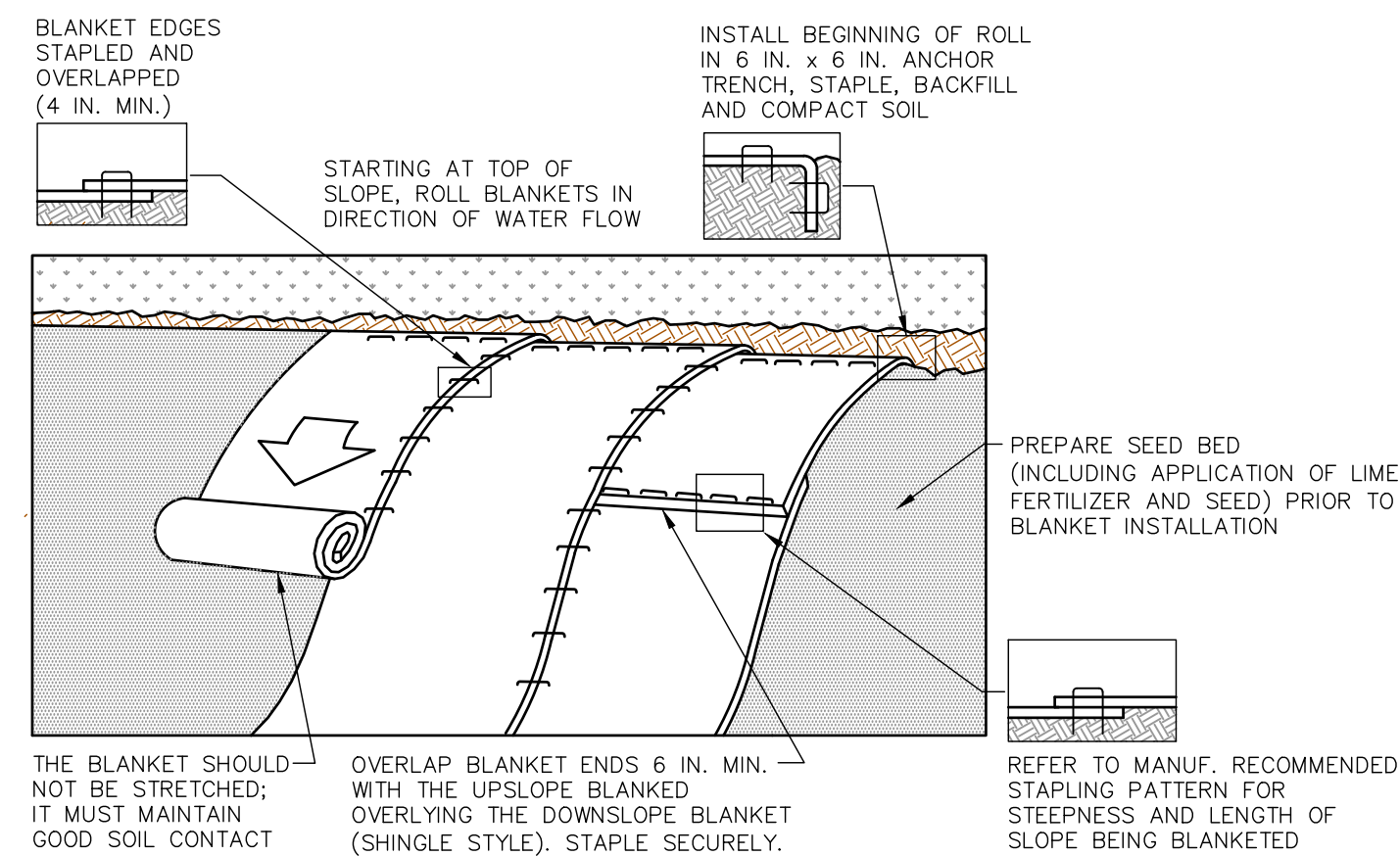
PROJECT  
WELCOME SOLAR, LLC  
WEST SALEM TOWNSHIP  
MERCER COUNTY, PA

TITLE OF DRAWING  
SITE PLAN DETAILS

DRAWING NO.

D-01

SHEET 38 OF 40



**NOTES:**

SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.

PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.

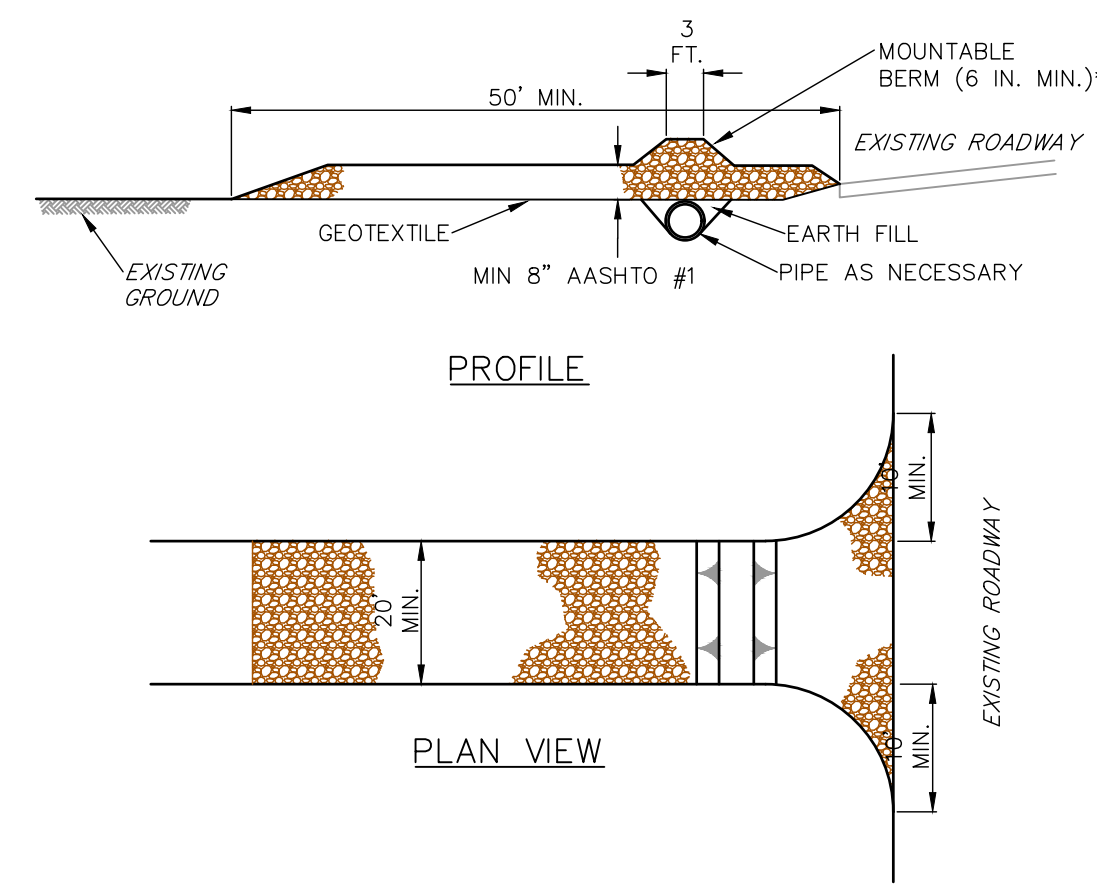
SLOPE SURFACE SHALL BE FREE OF ROCKS, CLOUDS, STICKS, AND GRASS.

BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.

THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

**STANDARD CONSTRUCTION DETAIL #1-1**  
**EROSION CONTROL BLANKET INSTALLATION**  
NOT TO SCALE



**NOTES:**

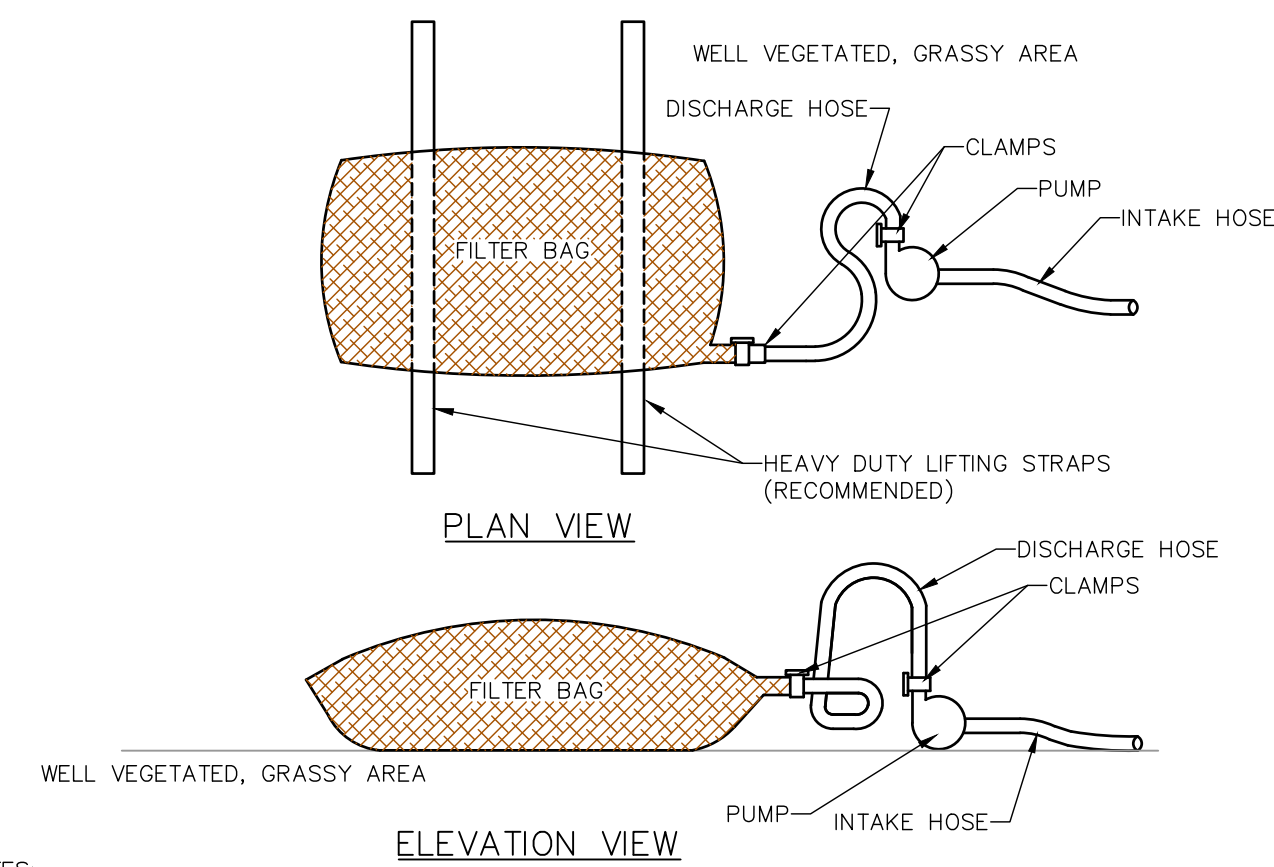
REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.

RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.

MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK, WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

**STANDARD CONSTRUCTION DETAIL #3-1**  
**ROCK CONSTRUCTION ENTRANCE**  
NOT TO SCALE



**NOTES:**

LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL NOT BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5% FOR SLOPES EXCEEDING 5%. CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

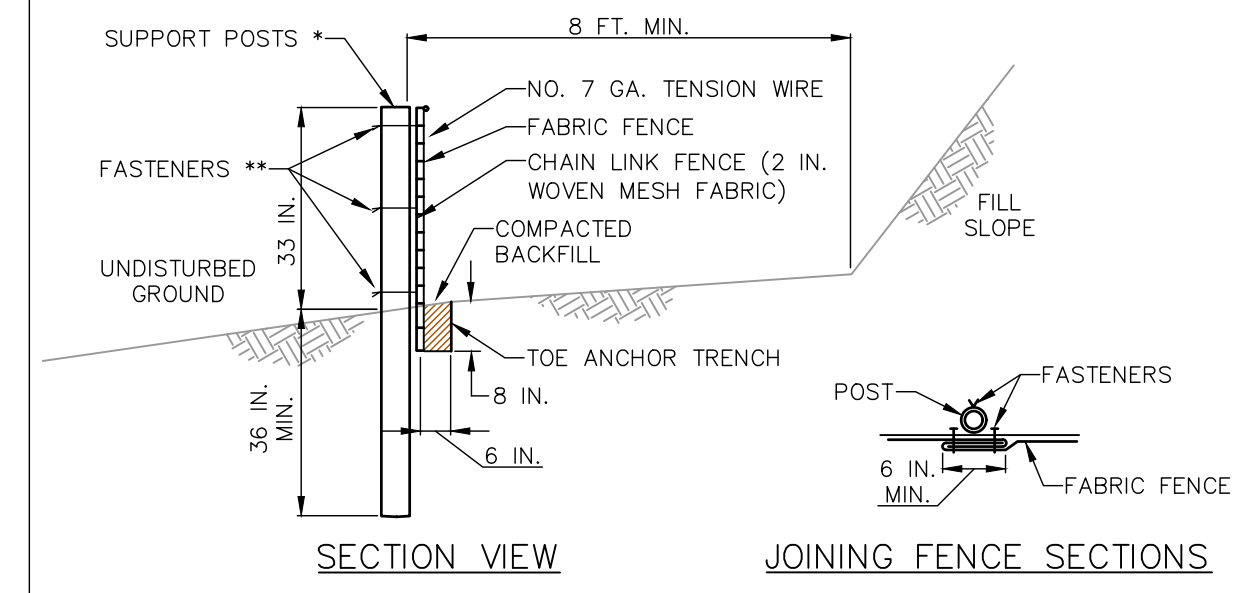
NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

**STANDARD CONSTRUCTION DETAIL #3-16**  
**PUMPED WATER FILTER BAG**  
NOT TO SCALE



**NOTES:**

FABRIC SHALL HAVE THE MINIMUM PROPERTIES AS SHOWN IN TABLE 4.3 OF THE PA DEP EROSION CONTROL MANUAL.

FABRIC WIDTH SHALL BE 42 IN. MINIMUM.

POSTS SHALL BE INSTALLED USING A POSTHOLE DRILL.

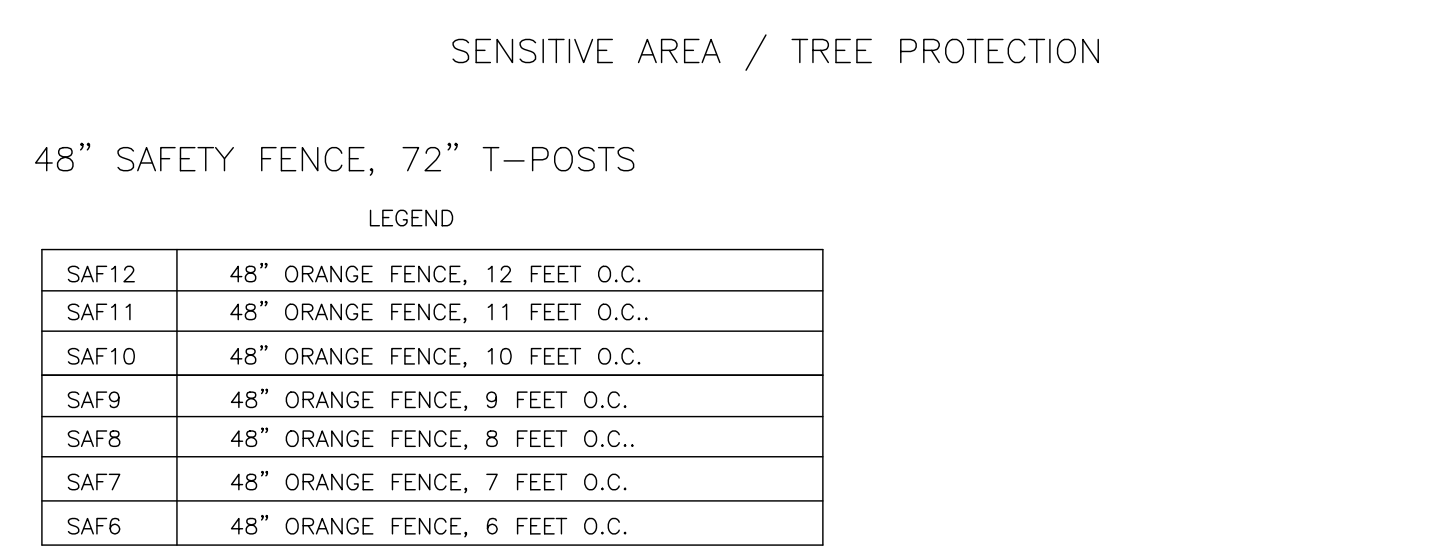
CHAIN LINK SHALL BE GALVANIZED NO. 11.5 GA. STEEL WIRE WITH 2-1/4 IN. OPENING, NO. 11 GA. ALUMINUM COATED STEEL WIRE IN ACCORDANCE WITH ASTM-A-491, OR GALVANIZED NO. 9 GA. STEEL WIRE TOP AND BOTTOM WITH GALVANIZED NO. 11 GA. STEEL INTERMEDIATE WIRES. NO. 7 GAGE TENSION WIRE TO BE INSTALLED HORIZONTALLY THROUGH HOLES AT TOP AND BOTTOM OF CHAIN-LINK FENCE OR ATTACHED WITH HOG RINGS AT 5 FT MAX. CENTERS.

SILT FENCE SHALL BE PLACED AT LEVEL EXISTING GRADE. BOTH ENDS OF THE FENCE SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.

SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVE GROUND HEIGHT OF THE FENCE.

FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN TRIBUTARY AREA IS PERMANENTLY STABILIZED.

**STANDARD CONSTRUCTION DETAIL #4-10**  
**SUPER SILT FENCE**  
NOT TO SCALE



**LEGEND**

SAF12	48" ORANGE FENCE, 12 FEET O.C.
SAF11	48" ORANGE FENCE, 11 FEET O.C.
SAF10	48" ORANGE FENCE, 10 FEET O.C.
SAF9	48" ORANGE FENCE, 9 FEET O.C.
SAF8	48" ORANGE FENCE, 8 FEET O.C.
SAF7	48" ORANGE FENCE, 7 FEET O.C.
SAF6	48" ORANGE FENCE, 6 FEET O.C.

1. ALL SENSITIVE AREAS SHALL BE PROTECTED AS PER PLAN.

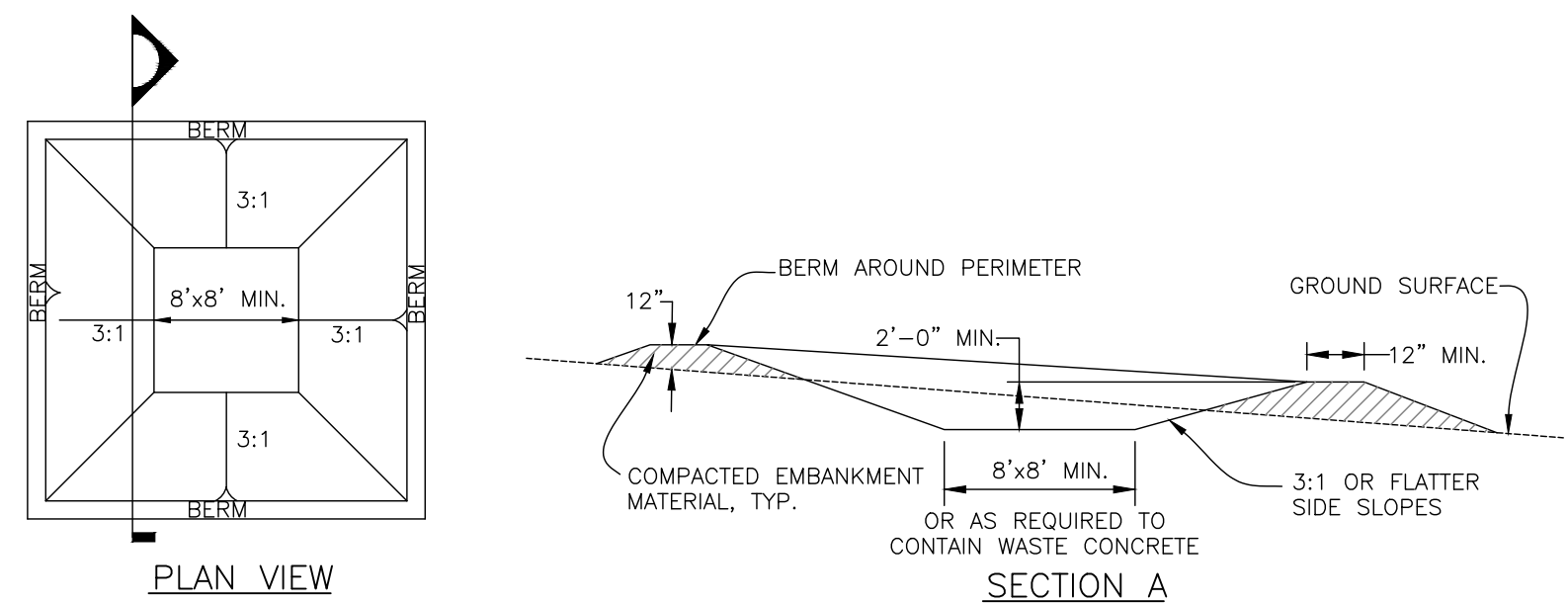
2. ALL TREES IN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED AND PROTECTED WITH HIGH VISIBILITY FENCE AS PER PLAN.

3. WHEN PRACTICABLE, INSTALL HIGH VISIBILITY 3 FEET OUTSIDE OF THE DRIP LINE OF THE TREE.

4. SAFETY FENCE SHOULD BE FASTENED SECURELY TO THE T-POSTS.

5. THE FENCING MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION; ANY CHANGE OF THE PROTECTIVE FENCING MUST BE APPROVED.

**CONSTRUCTION SAFETY FENCE**  
NOT TO SCALE



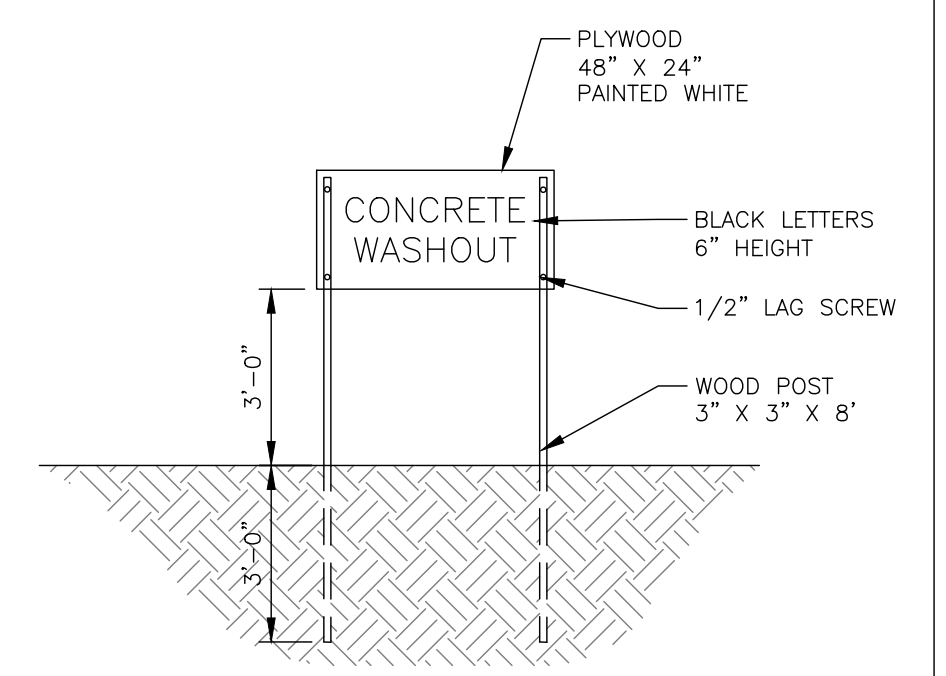
**CONCRETE WASHOUT AREA INSTALLATION NOTES:**

- CONTRACTOR TO DETERMINE LOCATION OF CONCRETE WASHOUT AREA.
- THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON THE SITE.
- VEHICLE TRACKING CONTROL IS REQUIRED AT THE ACCESS POINT.
- SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
- EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.

**CONCRETE WASHOUT AREA MAINTENANCE NOTES:**

- THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
- AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED AT AN APPROVED WASTE SITE.
- WHEN THE CONCRETE WASHOUT AREA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZE IN ACCORDANCE WITH THE PA E&S POLLUTION CONTROL PROGRAM MANUAL (2012).

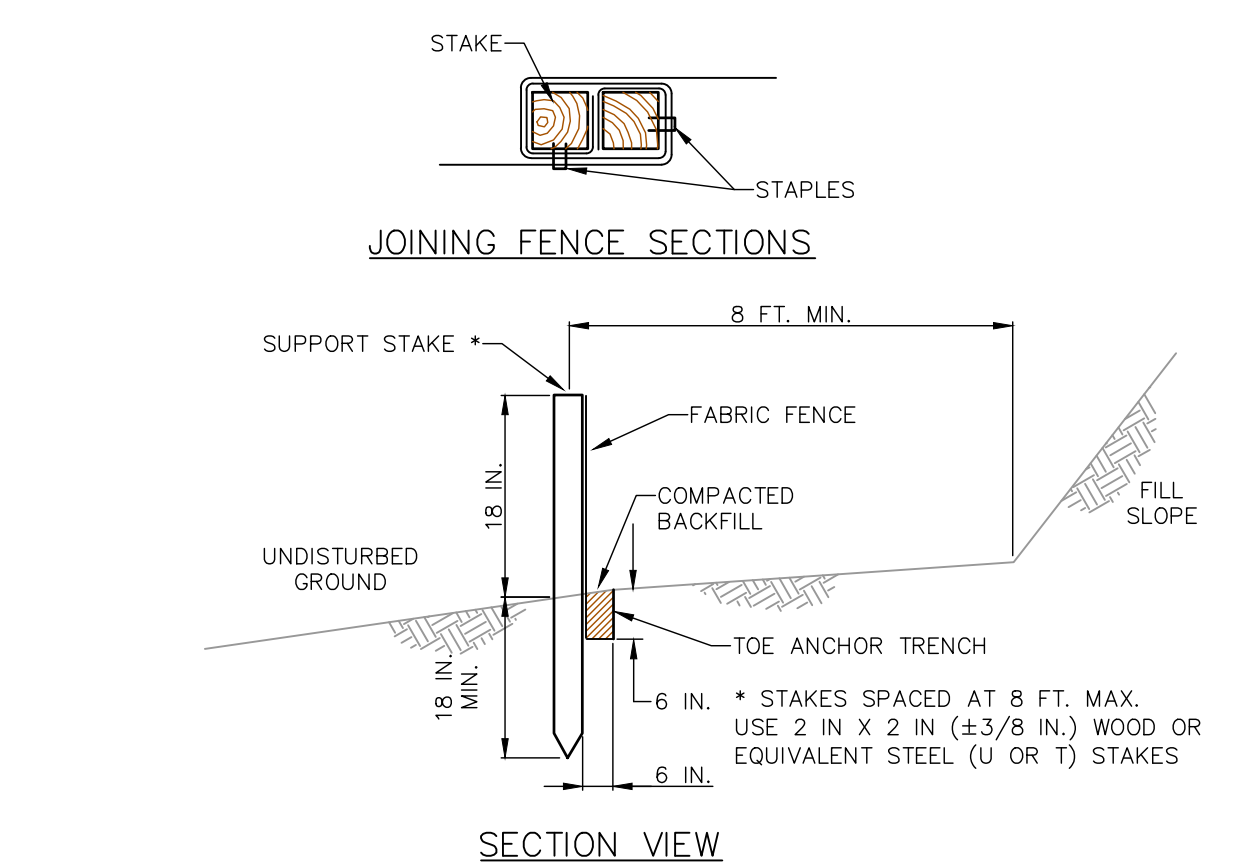
**CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)**  
NOT TO SCALE



**NOTES:**

- SUMPS TO BE LOCATED IN YARD BUT SHOULD BE KEPT AS FAR FROM DRAINAGE CHANNELS AND WETLAND AREAS AS PRACTICAL.
- SUMPS TO BE CLEANED AND WASTE CONCRETE REMOVED AND PROPERLY DISPOSED OF UPON COMPLETION OF WORK.
- 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:**

FABRIC SHALL HAVE THE MINIMUM PROPERTIES AS SHOWN IN TABLE 4.3 OF THE PA DEP EROSION CONTROL MANUAL.

FABRIC WIDTH SHALL BE 30 IN. MINIMUM. STAKES SHALL BE HARDWOOD OR EQUIVALENT STEEL (U OR T) STAKES.

SILT FENCE SHALL BE PLACED AT LEVEL EXISTING GRADE. BOTH ENDS OF THE FENCE SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.

SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVE GROUND HEIGHT OF THE FENCE.

ANY SECTION OF SILT FENCE WHICH HAS BEEN UNDERMINED OR TOPPED SHALL BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET (STANDARD CONSTRUCTION DETAIL # 4-6).

FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN TRIBUTARY AREA IS PERMANENTLY STABILIZED.

**STANDARD CONSTRUCTION DETAIL #4-7**  
**STANDARD SILT FENCE (18" HIGH)**  
NOT TO SCALE

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USER: Joseph Lower

NO.	REV	DATE	DESCRIPTION
7			
6			
5			
4		8/13/2021	JEC
3		4/16/2021	JML
2			MERCER CCD TDL COMMENTS
1			TWP. & CO. REVIEW COMMENTS
		12/30/2020	JEC
			BY

PROJECT: WELCOME SOLAR, LLC  
WEST SALEM TOWNSHIP  
MERCER COUNTY, PA

TITLE OF DRAWING: EROSION & SEDIMENT CONTROL DETAILS

DRAWING NO.: D-02

SHEET 39 OF 40

PRELIMINARY NOT FOR CONSTRUCTION

