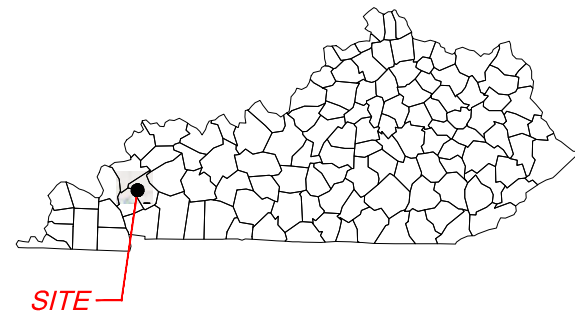
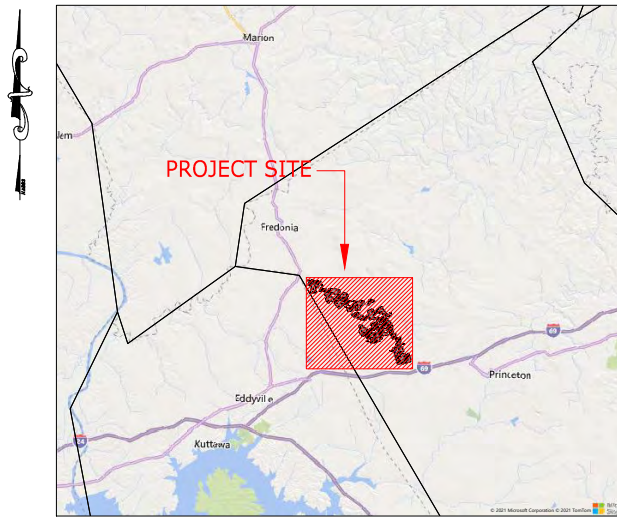


# CALDWELL SOLAR

## CALDWELL COUNTY KENTUCKY



STATE MAP



VICINITY MAP

Sheet List Table	
Sheet Number	Sheet Title
CDW-E-000-01	COVER SHEET
CDW-E-000-02	LEGEND & SYMBOLS
CDW-E-500-03	OVERALL ARRAY SITE PLAN
CDW-E-500-04	OVERALL ARRAY SITE PLAN WITH AERIAL
CDW-E-502-01	SOLAR ARRAY SITE PLAN
CDW-E-502-02	SOLAR ARRAY SITE PLAN
CDW-E-502-03	SOLAR ARRAY SITE PLAN
CDW-E-502-04	SOLAR ARRAY SITE PLAN
CDW-E-502-05	SOLAR ARRAY SITE PLAN
CDW-E-502-06	SOLAR ARRAY SITE PLAN
CDW-E-502-07	SOLAR ARRAY SITE PLAN
CDW-E-522-03	TYPICAL OVERHEAD COLLECTOR LINE DETAILS
CDW-E-522-04	TYPICAL OVERHEAD COLLECTOR LINE DETAILS
CDW-L-100-01	VEGETATION SCREENING NOTES AND DETAILS - VEG. NTD

**PROJECT DESCRIPTION & NOTES**

- BOUNDARY INFORMATION PROVIDED BY NATIONAL GRID RENEWABLES.
- TOPOGRAPHIC INFORMATION SHOWN FROM PUBLIC LIDAR DATABASE.
- WETLAND INFORMATION PROVIDED BY NATIONAL GRID RENEWABLES
- PARCEL DATA PROVIDED BY NATIONAL GRID RENEWABLES



**OWNER:**  
NATIONAL GRID RENEWABLES  
8400 NORMANDALE LAKE BLVD. SUITE 1200  
BLOOMINGTON, MN 55437  
PHONE: 952-988-9000



**ENGINEER:**  
TIMMONS GROUP  
971 NORTH GILBERT ROAD, SUITE 204  
GILBERT, AZ 85234  
TELEPHONE: (480) 386-8058  
WWW.TIMMONS.COM

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PROJECT NAME & ADDRESS  
**CALDWELL SOLAR**  
CALDWELL COUNTY  
KENTUCKY

DATE	08/10/2021
PROJECT NUMBER	46831
DRAWN BY	TIMMONS GROUP
DESIGNED BY	TIMMONS GROUP































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REVISIONS	
#	DESCRIPTION
1	ISSUED FOR REVIEW











DRAWING DESCRIPTION  
**COVER SHEET**

SCALE	SHEET NUMBER
N.T.S.	CDW-E-000-01

# LEGEND:

-  CALDWELL PROJECT BOUNDARY
-  PROPERTY LINE
-  ROADS
-  RAIL ROADS
-  EASEMENT
-  OVERHEAD ELECTRIC LINE
-  UNDERGROUND WATER LINE
-  25' SETBACK FROM PROJECT BOUNDARY
-  25' ROAD SETBACK
-  25' WETLAND SETBACK
-  75' RAILROAD SETBACK
-  WETLAND STREAM
-  200' RESIDENT SETBACK
-  WETLANDS
-  FLOW DEPTH > 4'
-  FLOODPLAIN
-  VEGETATION SCREENING EXISTING
-  VEGETATION SCREENING PROPOSED
-  PROPOSED SITE ROAD
-  PROPOSED OVERHEAD CORRIDOR
-  DIRECTION BORE
-  PROPOSED SITE FENCE
-  PROPOSED FEEDER 11A
-  PROPOSED FEEDER 11B
-  PROPOSED FEEDER 12A
-  PROPOSED FEEDER 12B
-  PROPOSED FEEDER 21A
-  PROPOSED FEEDER 21B
-  PROPOSED FEEDER 22A
-  PROPOSED FEEDER 22B

# SYMBOLS:

-  PROPOSED POWER POLE
-  MV SECTIONALIZING CABINET
-  PROPOSED MET STATION
-  PROPOSED JUNCTION BOX
-  BORE BIT
-  3 - INVERTER PAD
-  4 - INVERTER PAD
-  5 - INVERTER PAD
-  6 - INVERTER PAD
-  13, 12, 11, 10 TABLE PV PANEL TRACKER

Y:\84146831-Caldwell Solar\Dwg\Electrical\CDW-E-000-01 COVER SHEET.dwg | Plotted on 11/30/2021 8:27 AM by Christopher Carr

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PROJECT NAME & ADDRESS  
**CALDWELL SOLAR**  
 CALDWELL COUNTY  
 KENTUCKY

DATE	08/10/2021
PROJECT NUMBER	46831
DRAWN BY	TIMMONS GROUP
DESIGNED BY	TIMMONS GROUP

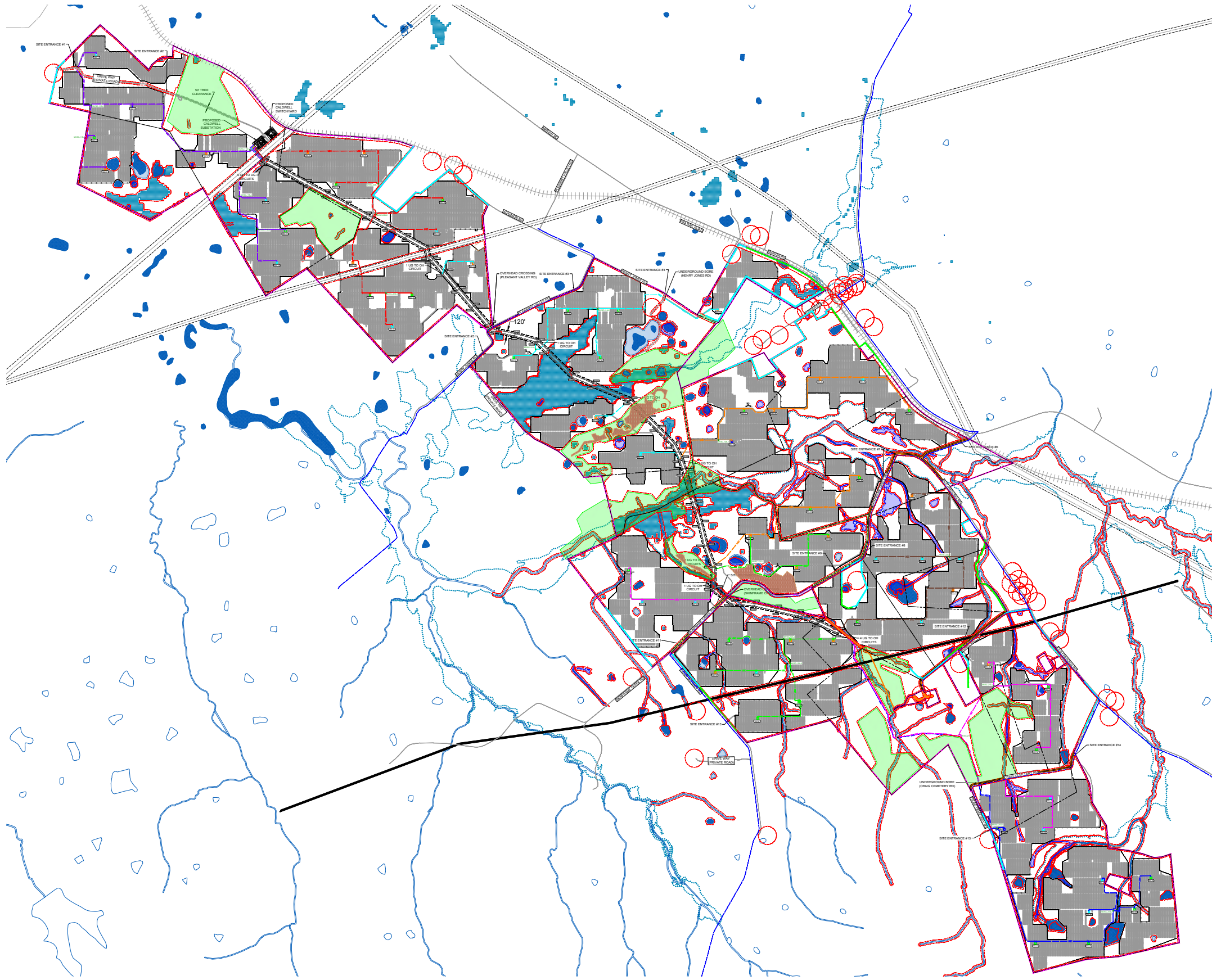
SEAL  


REVISIONS	
#	DESCRIPTION
A	08/27/21 ISSUED FOR REVIEW
B	
C	
D	
E	

DRAWING DESCRIPTION  
**LEGEND & SYMBOLS**  
 34"x22" FULL SIZE  
 (17"x11" PLOTS ARE HALF SCALE)

SCALE	SHEET NUMBER
N.T.S.	CDW-E-000-02

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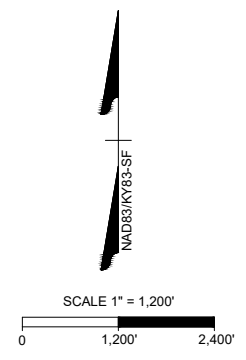
### QUANTITY SUMMARY OVERALL

SYSTEM DC RATING (MW)	260.06
SYSTEM AC CAPACITY AT POI (MW)	200
DC/AC RATIO (AT POI)	1.30
MODULE MODEL	FIRST SOLAR 480W
GCR	35%
PITCH (CENTER TO CENTER)	19 FT
TOTAL 480W MODULES	541,782
INVERTER MODEL	TMEIC 840
TOTAL NUMBER SKIDS	65
TOTAL NUMBER INVERTERS	265
DC SYSTEM VOLTAGE (V)	1500
COLLECTOR SYSTEM VOLTAGE (kV)	34.5
AZIMUTH	0°
SITE FENCE (ACRES)	1,449
SITE FENCE (FEET)	240,446
TOTAL ROAD LENGTH (FEET)	97,750
TOTAL OH POLE STRUCTURES	75
TOTAL OH LINE LENGTH (FEET)	35,423

- ### LEGEND:
- CALDWELL PROJECT BOUNDARY
  - PROPERTY LINE
  - ROADS
  - RAIL ROADS
  - EASEMENT
  - OVERHEAD ELECTRIC LINE
  - UNDERGROUND WATER LINE
  - - - 25' SETBACK FROM PROJECT BOUNDARY
  - - - 25' ROAD SETBACK
  - - - 25' WETLAND SETBACK
  - - - 75' RAILROAD SETBACK
  - WETLAND STREAM
  - 200' RESIDENT SETBACK
  - ▨ WETLANDS
  - ▨ FLOW DEPTH > 4'
  - ▨ FLOODPLAIN
  - ▨ VEGETATION SCREENING EXISTING
  - ▨ VEGETATION SCREENING PROPOSED
  - ▨ PROPOSED SITE ROAD
  - ▨ PROPOSED OVERHEAD CORRIDOR
  - ▨ DIRECTION BORE
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  - PROPOSED FEEDER 11A
  - PROPOSED FEEDER 11B
  - PROPOSED FEEDER 12A
  - PROPOSED FEEDER 12B
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  - PROPOSED FEEDER 22A
  - PROPOSED FEEDER 22B

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  - 4 4 - INVERTER PAD
  - 5 5 - INVERTER PAD
  - 6 6 - INVERTER PAD

13, 12, 11, 10 TABLE PV PANEL TRACKER



Call at least two full working days before you begin excavation.



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PROJECT NAME & ADDRESS  
**CALDWELL SOLAR**  
 CALDWELL COUNTY  
 KENTUCKY

DATE	08/10/2021
PROJECT NUMBER	46831
DRAWN BY	TIMMONS GROUP
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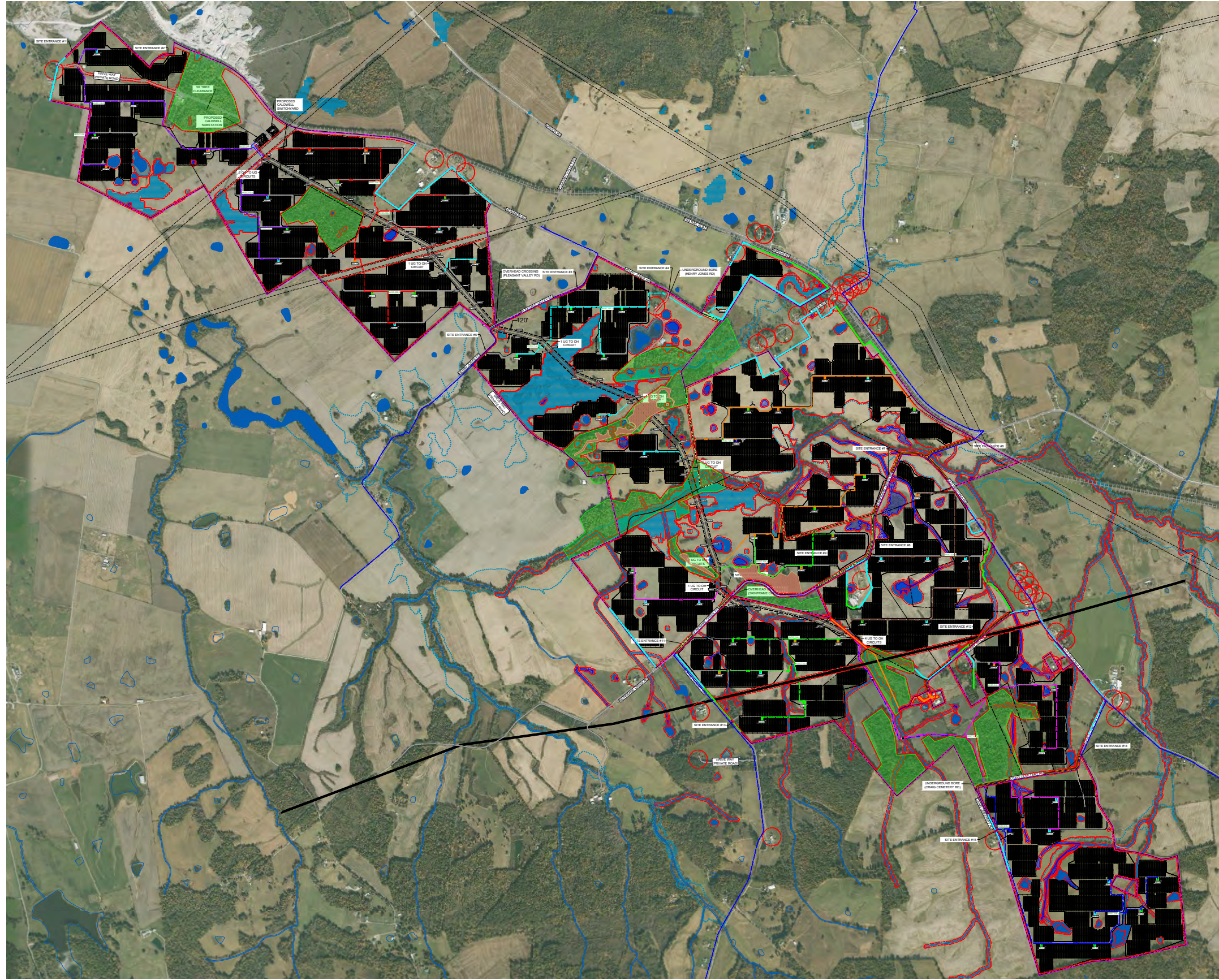
#	REVISION	DESCRIPTION
A	09/27/21	ISSUED FOR REVIEW
B	12/01/21	UPDATED ARRAY LAYOUT
C		
D		
E		

DRAWING DESCRIPTION  
**OVERALL ARRAY SITE PLAN**

34"x22" FULL SIZE  
 (17"x11" PLOTS ARE HALF SCALE)

SCALE	SHEET NUMBER
1" = 1200'	CDWE-E-500-03

Y:\94146831-Caldwell Solar\Drawings\Electrical\CDW-E-500-03-OVERALL SOLAR ARRAY SITE PLAN.dwg | Plotted on 12/1/2021 1:37 PM by Christopher Carr



### QUANTITY SUMMARY OVERALL

SYSTEM DC RATING (MW)	260.06
SYSTEM AC CAPACITY AT POI (MW)	200
DC/AC RATIO (AT POI)	1.30
MODULE MODEL	FIRST SOLAR 480W
GCR	35%
PITCH (CENTER TO CENTER)	19 FT
TOTAL 480W MODULES	541,782
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TOTAL OH LINE LENGTH (FEET)	35,423

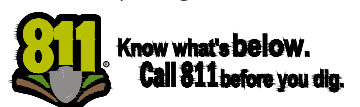
- ### LEGEND:
- CALDWELL PROJECT BOUNDARY
  - PROPERTY LINE
  - ROADS
  - RAIL ROADS
  - EASEMENT
  - OVERHEAD ELECTRIC LINE
  - UNDERGROUND WATER LINE
  - 25' SETBACK FROM PROJECT BOUNDARY
  - 25' ROAD SETBACK
  - 25' WETLAND SETBACK
  - 75' RAILROAD SETBACK
  - WETLAND STREAM
  - 200' RESIDENT SETBACK
  - WETLANDS
  - FLOW DEPTH > 4'
  - FLOODPLAIN
  - VEGETATION SCREENING EXISTING
  - VEGETATION SCREENING PROPOSED
  - PROPOSED SITE ROAD
  - PROPOSED OVERHEAD CORRIDOR
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  - PROPOSED SITE FENCE
  - PROPOSED FEEDER 11A
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  - PROPOSED FEEDER 12A
  - PROPOSED FEEDER 12B
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  - PROPOSED FEEDER 21B
  - PROPOSED FEEDER 22A
  - PROPOSED FEEDER 22B

- ### SYMBOLS:
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  - PROPOSED MV SECTIONALIZING CABINET
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  - PROPOSED JUNCTION BOX
  - BORE BIT
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  - 4 4 - INVERTER PAD
  - 5 5 - INVERTER PAD
  - 6 6 - INVERTER PAD

13, 12, 11, 10 TABLE PV PANEL TRACKER



Call at least two full working days before you begin excavation.



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**CALDWELL SOLAR**  
CALDWELL COUNTY  
KENTUCKY

DATE: 08/10/2021  
PROJECT NUMBER: 46831  
DRAWN BY: TIMMONS GROUP  
DESIGNED BY: TIMMONS GROUP

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### REVISIONS

#	DATE	DESCRIPTION
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B	12/01/21	UPDATED ARRAY LAYOUT
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D		
E		

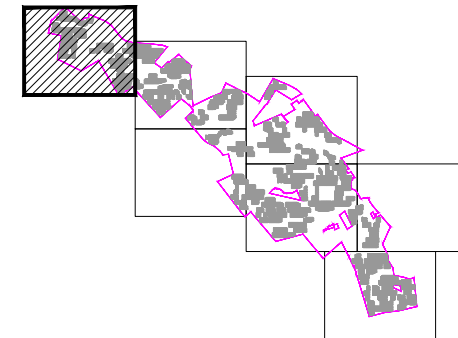
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**OVERALL ARRAY SITE PLAN WITH AERIAL**  
34"x22" FULL SIZE  
(17"x11" PLOTS ARE HALF SCALE)  
SCALE: 1" = 1200'  
SHEET NUMBER: CDW-E-500-04

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MATCHLINE SEE SHEET CDW-E-502.02

**KEY MAP:**

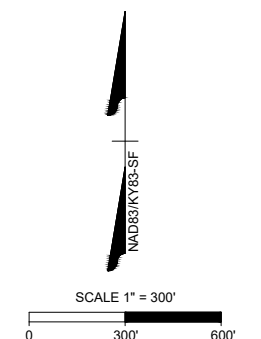


**LEGEND:**

- CALDWELL PROJECT BOUNDARY
- PROPERTY LINE
- ROADS
- RAIL ROADS
- EASEMENT
- OVERHEAD ELECTRIC LINE
- UNDERGROUND WATER LINE
- 25' SETBACK FROM PROJECT BOUNDARY
- 25' ROAD SETBACK
- 25' WETLAND SETBACK
- 75' RAILROAD SETBACK
- WETLAND STREAM
- 200' RESIDENT SETBACK
- WETLANDS
- FLOW DEPTH > 4'
- FLOODPLAIN
- VEGETATION SCREENING EXISTING
- VEGETATION SCREENING PROPOSED
- PROPOSED SITE ROAD
- PROPOSED OVERHEAD CORRIDOR
- DIRECTION BORE
- PROPOSED SITE FENCE
- UGC PROPOSED FEEDER 11A
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- UGC PROPOSED FEEDER 12A
- UGC PROPOSED FEEDER 12B
- UGC PROPOSED FEEDER 21A
- UGC PROPOSED FEEDER 21B
- UGC PROPOSED FEEDER 22A
- UGC PROPOSED FEEDER 22B

**SYMBOLS:**

- PROPOSED POWER POLE
- PROPOSED MV SECTIONALIZING CABINET
- PROPOSED MET STATION
- PROPOSED JUNCTION BOX
- BORE BIT
- 3 - INVERTER PAD
- 4 - INVERTER PAD
- 5 - INVERTER PAD
- 6 - INVERTER PAD
- 13, 12, 11, 10 TABLE PV PANEL TRACKER



Call at least two full working days before you begin excavation.



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PROJECT NAME & ADDRESS  
**CALDWELL SOLAR**  
 CALDWELL COUNTY  
 KENTUCKY

DATE	08/10/2021
PROJECT NUMBER	46831
DRAWN BY	TIMMONS GROUP
DESIGNED BY	TIMMONS GROUP

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#	DATE	DESCRIPTION
A	09/27/21	ISSUED FOR REVIEW
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E		

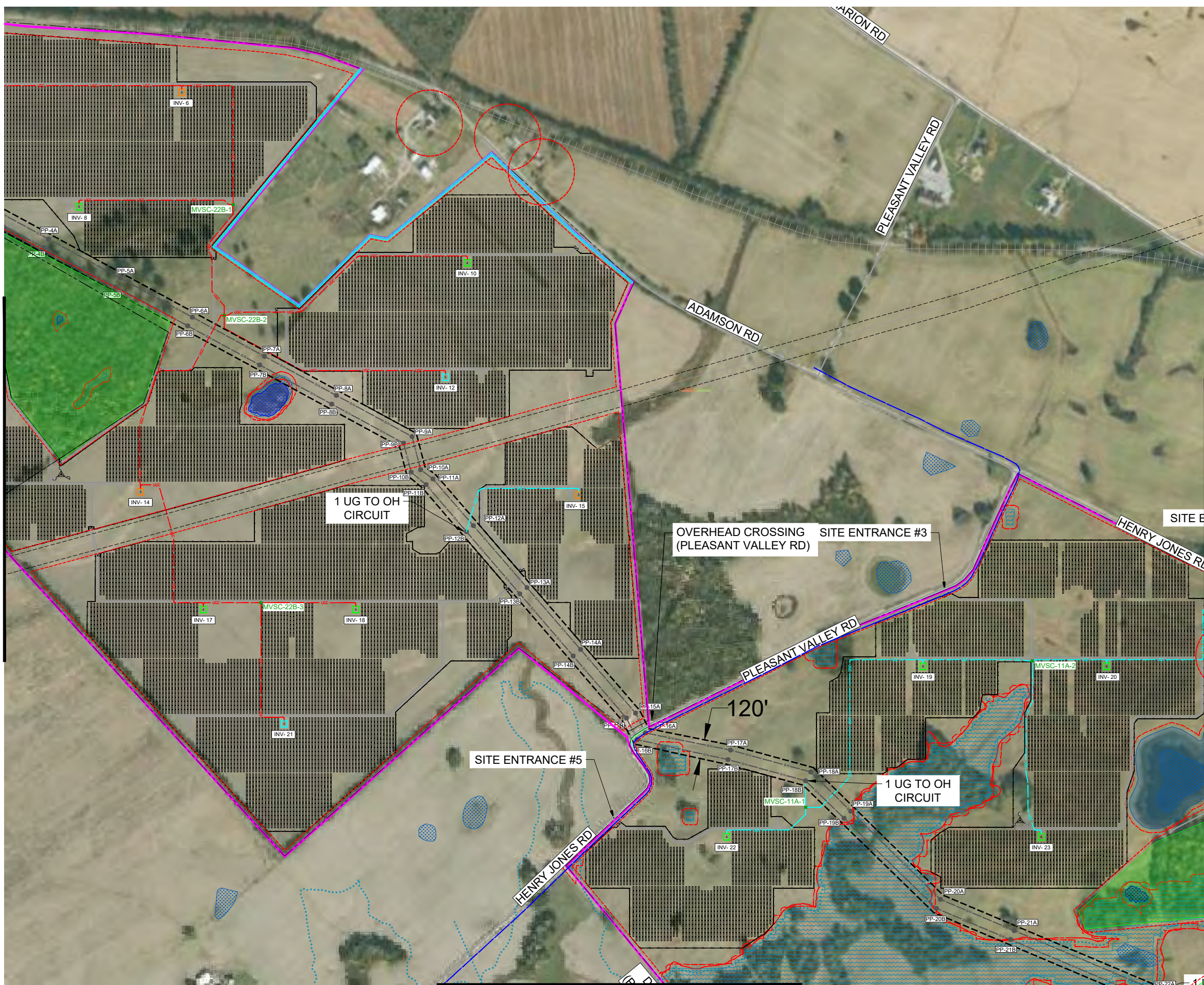
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**SOLAR ARRAY SITE PLAN**

34"x22" FULL SIZE  
 (17"x11" PLOTS ARE HALF SCALE)

SCALE	SHEET NUMBER
1" = 300'	CDW-E-502-01

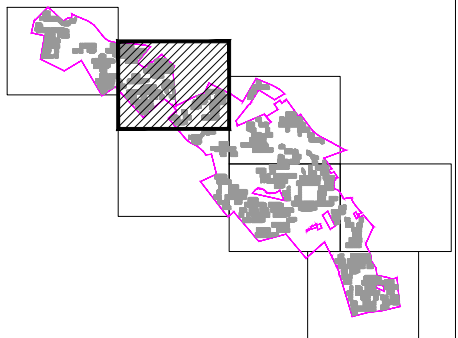
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MATCHLINE SEE SHEET CDW-E-502.01



MATCHLINE SEE SHEET CDW-E-502.04

**KEY MAP:**



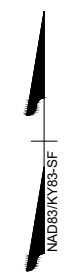
**LEGEND:**

- CALDWELL PROJECT BOUNDARY
- - - PROPERTY LINE
- ROADS
- = RAIL ROADS
- - - EASEMENT
- OVERHEAD ELECTRIC LINE
- UNDERGROUND WATER LINE
- - - 25' SETBACK FROM PROJECT BOUNDARY
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- - - 25' WETLAND SETBACK
- - - 75' RAILROAD SETBACK
- WETLAND STREAM
- 200' RESIDENT SETBACK
- WETLANDS
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- FLOODPLAIN
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- VEGETATION SCREENING PROPOSED
- PROPOSED SITE ROAD
- PROPOSED OVERHEAD CORRIDOR
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- UGC PROPOSED FEEDER 12B
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- UGC PROPOSED FEEDER 21B
- UGC PROPOSED FEEDER 22A
- UGC PROPOSED FEEDER 22B

**SYMBOLS:**

- PROPOSED POWER POLE
- PROPOSED MV SECTIONALIZING CABINET
- PROPOSED MET STATION
- PROPOSED JUNCTION BOX
- BORE BIT
- 3 - INVERTER PAD
- 4 - INVERTER PAD
- 5 - INVERTER PAD
- 6 - INVERTER PAD

13, 12, 11, 10 TABLE PV PANEL TRACKER



SCALE 1" = 300'

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 CALDWELL COUNTY  
 KENTUCKY

DATE: 08/10/2021  
 PROJECT NUMBER: 46831  
 DRAWN BY: TIMMONS GROUP  
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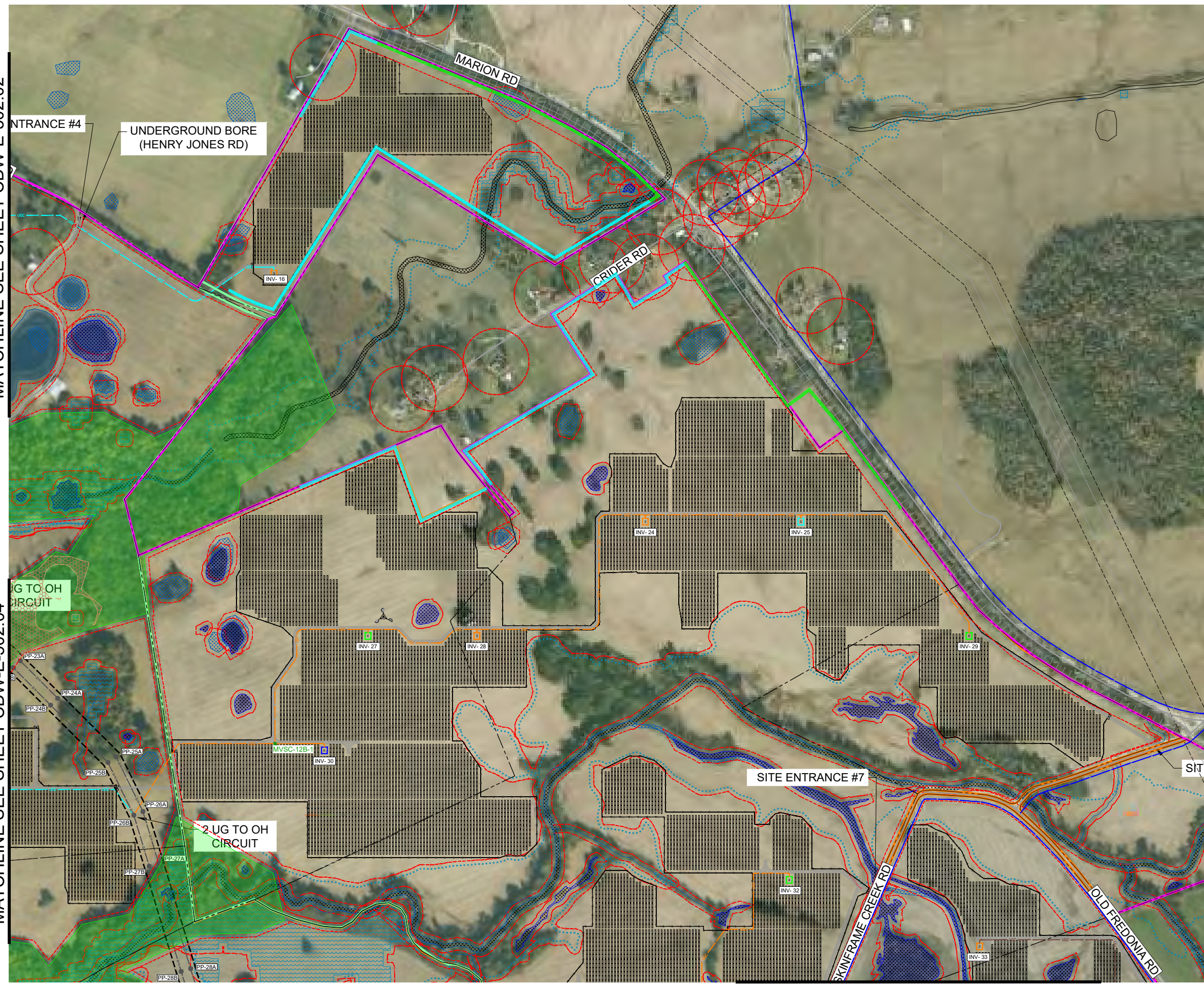
**REVISIONS**

#	DATE	DESCRIPTION
A	09/27/21	ISSUED FOR REVIEW
B		
C		
D		
E		

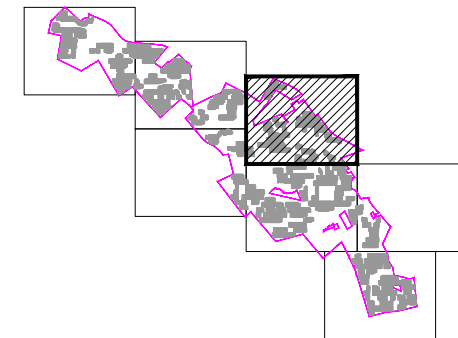
DRAWING DESCRIPTION  
**SOLAR ARRAY SITE PLAN**  
 34"x22" FULL SIZE  
 (17"x11" PLOTS ARE HALF SCALE)  
 SCALE: 1" = 300'  
 SHEET NUMBER: CDW-E-502-02

MATCHLINE SEE SHEET CDW-E-502.02

MATCHLINE SEE SHEET CDW-E-502.04



**KEY MAP:**

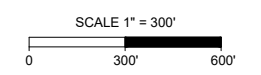
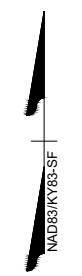


**LEGEND:**

- CALDWELL PROJECT BOUNDARY
- PROPERTY LINE
- ROADS
- + + + + + RAIL ROADS
- EASEMENT
- OVERHEAD ELECTRIC LINE
- UNDERGROUND WATER LINE
- 25' SETBACK FROM PROJECT BOUNDARY
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- 200' RESIDENT SETBACK
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- FLOW DEPTH > 4'
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- UGC PROPOSED FEEDER 21B
- UGC PROPOSED FEEDER 22A
- UGC PROPOSED FEEDER 22B

**SYMBOLS:**

- PROPOSED POWER POLE
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- 6 - INVERTER PAD
- 13, 12, 11, 10 TABLE PV PANEL TRACKER



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MATCHLINE SEE SHEET CDW-E-502.05

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DATE	08/10/2021
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DRAWN BY	TIMMONS GROUP
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#	REVISION
A	09/27/21 ISSUED FOR REVIEW
B	12/01/21 UPDATED ARRAY LAYOUT
C	
D	
E	

DRAWING DESCRIPTION  
**SOLAR ARRAY SITE PLAN**

34"x22" FULL SIZE  
 (17"x11" PLOTS ARE HALF SCALE)

SCALE	SHEET NUMBER
1" = 300'	CDW-E-502-03

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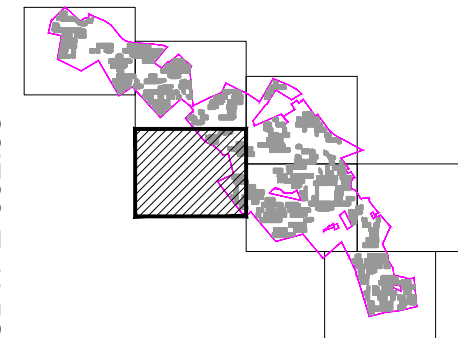
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MATCHLINE SEE SHEET CDW-E-502.03

MATCHLINE SEE SHEET CDW-E-502.05

**KEY MAP:**

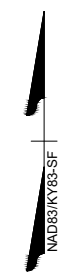


**LEGEND:**

- CALDWELL PROJECT BOUNDARY
- PROPERTY LINE
- ROADS
- RAIL ROADS
- EASEMENT
- OVERHEAD ELECTRIC LINE
- UNDERGROUND WATER LINE
- 25' SETBACK FROM PROJECT BOUNDARY
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- PROPOSED SITE ROAD
- PROPOSED OVERHEAD CORRIDOR
- DIRECTION BORE
- PROPOSED SITE FENCE
- UGC PROPOSED FEEDER 11A
- UGC PROPOSED FEEDER 11B
- UGC PROPOSED FEEDER 12A
- UGC PROPOSED FEEDER 12B
- UGC PROPOSED FEEDER 21A
- UGC PROPOSED FEEDER 21B
- UGC PROPOSED FEEDER 22A
- UGC PROPOSED FEEDER 22B

**SYMBOLS:**

- PROPOSED POWER POLE
- PROPOSED MV SECTIONALIZING CABINET
- PROPOSED MET STATION
- PROPOSED JUNCTION BOX
- BORE BIT
- 3 - INVERTER PAD
- 4 - INVERTER PAD
- 5 - INVERTER PAD
- 6 - INVERTER PAD
- 13, 12, 11, 10 TABLE PV PANEL TRACKER



SCALE 1" = 300'  
0 300' 600'

Call at least two full working days before you begin excavation.



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YOUR VISION ACHIEVED THROUGH OURS.  
THIS DRAWING PREPARED AT THE  
**GILBERT OFFICE**  
11000 W. GILBERT AVENUE, SUITE 200  
GILBERT, AZ 85234  
TEL: 480.386.8055 FAX: 480.386.1010 WWW.TIMMONSGROUP.COM

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renewables

PROJECT NAME & ADDRESS  
**CALDWELL SOLAR**  
CALDWELL COUNTY  
KENTUCKY

DATE	08/10/2021
PROJECT NUMBER	46831
DRAWN BY	TIMMONS GROUP
DESIGNED BY	TIMMONS GROUP

**PRELIMINARY**  
NOT FOR CONSTRUCTION

REVISIONS	
#	DESCRIPTION
A	09/27/21 ISSUED FOR REVIEW
B	
C	
D	
E	

DRAWING DESCRIPTION  
**SOLAR ARRAY SITE PLAN**

34"x22" FULL SIZE  
(17"x11" PLOTS ARE HALF SCALE)

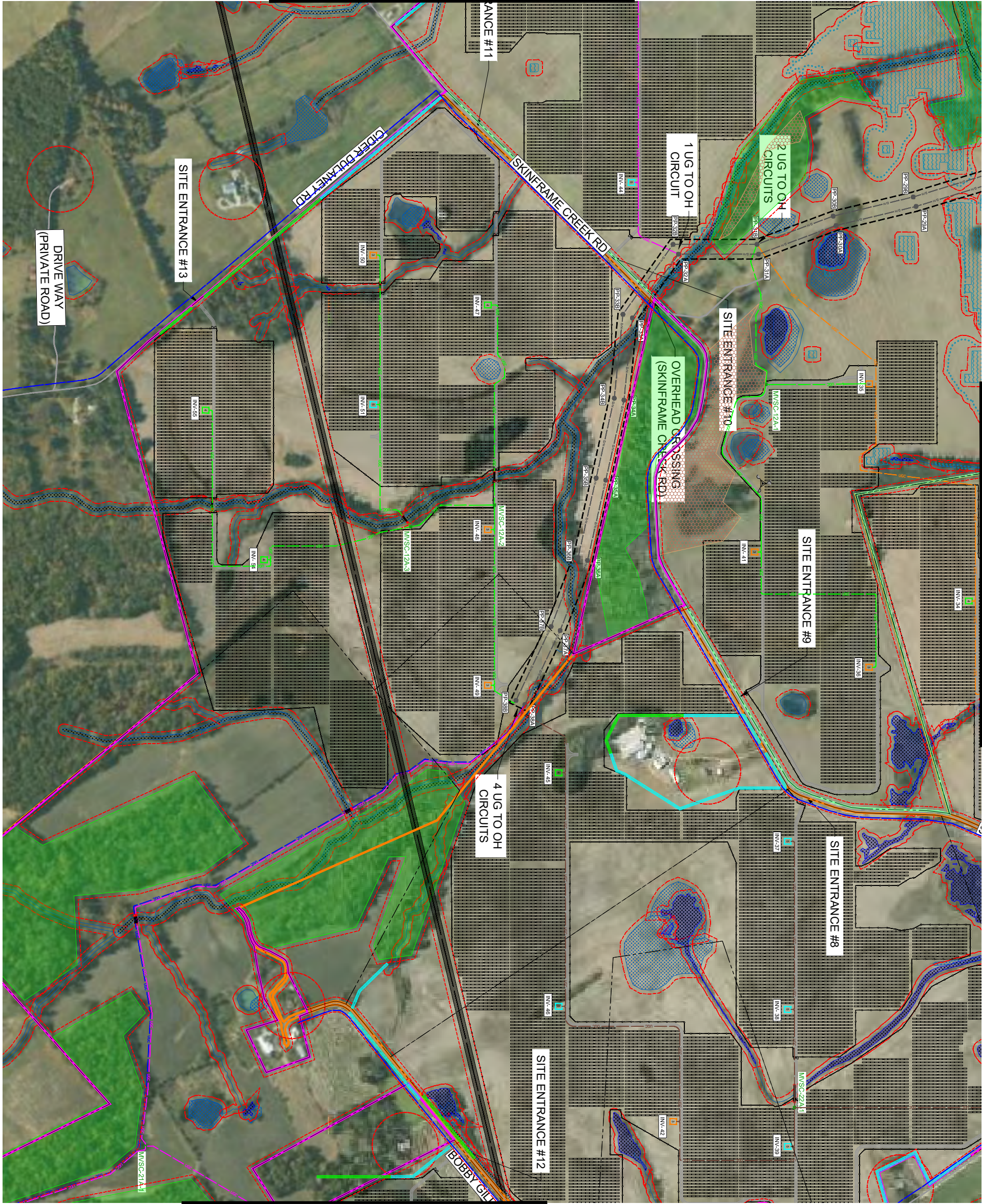
SCALE	SHEET NUMBER
1" = 300'	CDW-E-502-04

Y:\84146831-Caldwell Solar\Drawings\Electrical\CDW-E-502 SOLAR ARRAY SITE PLAN\_STATE.dwg | Plotted on 11/30/2021 8:16 AM | by Christopher Carr



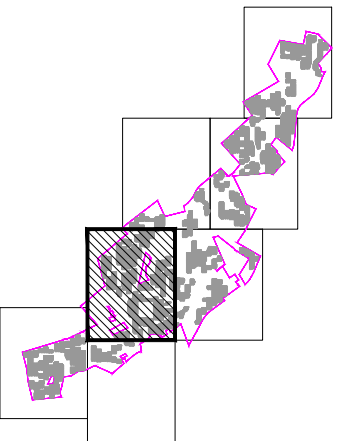
MATCHLINE SEE SHEET CDW-E-502.04

MATCHLINE SEE SHEET CDW-E-502.03



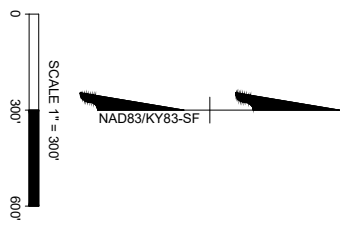
MATCHLINE SEE SHEET CDW-E-502.06

KEY MAP:



LEGEND:

- CALDWELL PROJECT BOUNDARY
  - PROPERTY LINE
  - RAILS
  - RAIL ROADS
  - EASEMENT
  - OVERHEAD ELECTRIC LINE
  - UNDERGROUND WATER LINE
  - 25' SETBACK FROM PROJECT BOUNDARY
  - 25' ROAD SETBACK
  - 25' WETLAND SETBACK
  - 75' RAILROAD SETBACK
  - WETLAND STREAM
  - 200' RESIDENT SETBACK
  - WETLANDS
  - FLOW DEPTH > 4'
  - FLOODPLAIN
  - VEGETATION SCREENING EXISTING
  - VEGETATION SCREENING PROPOSED
  - PROPOSED SITE ROAD
  - PROPOSED OVERHEAD CORRIDOR
  - DIRECTION BORE
  - PROPOSED SITE FENCE
  - UGC PROPOSED FEEDER 11A
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  - UGC PROPOSED FEEDER 12A
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**CALDWELL SOLAR**  
CALDWELL COUNTY  
KENTUCKY

DATE: 08/10/2021  
PROJECT NUMBER: 48831  
DRAWN BY: TIMMONS GROUP  
CHECKED BY: TIMMONS GROUP  
SCALE: TIMMONS GROUP

**PRELIMINARY**  
**NOT FOR CONSTRUCTION**

NO.	REVISIONS	DATE
1	ISSUED FOR PERMIT	08/10/2021
2	ISSUED FOR REVIEW	
3		
4		
5		
6		

SOLAR ARRAY SITE PLAN

3/4" = 1' FULL SIZE  
(1/2" = 1' FULL SIZE ARE IN ALL SCALE)

SCALE: 1" = 300'

SHEET NUMBER: CDW-E-502-05

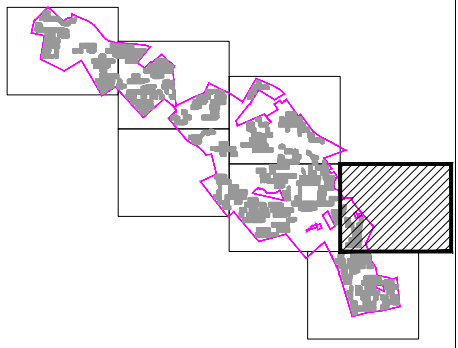
Y:\94146831-Caldwell Solar\Drawings\Electrical\CDW-E-502 SOLAR ARRAY SITE PLAN.dwg | Plotted on 11/30/2021 8:18 AM | by Christopher Carr

MATCHLINE SEE SHEET CDW-E-502.05



MATCHLINE SEE SHEET CDW-E-502.07

**KEY MAP:**

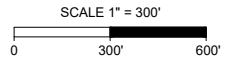
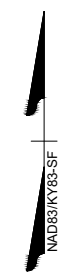


**LEGEND:**

- CALDWELL PROJECT BOUNDARY
- PROPERTY LINE
- ROADS
- + + + + + RAIL ROADS
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Call at least two full working days before you begin excavation.



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PROJECT NAME & ADDRESS  
**CALDWELL SOLAR**  
 CALDWELL COUNTY  
 KENTUCKY

DATE	08/10/2021
PROJECT NUMBER	46831
DRAWN BY	TIMMONS GROUP
DESIGNED BY	TIMMONS GROUP

PRELIMINARY  
 NOT FOR CONSTRUCTION

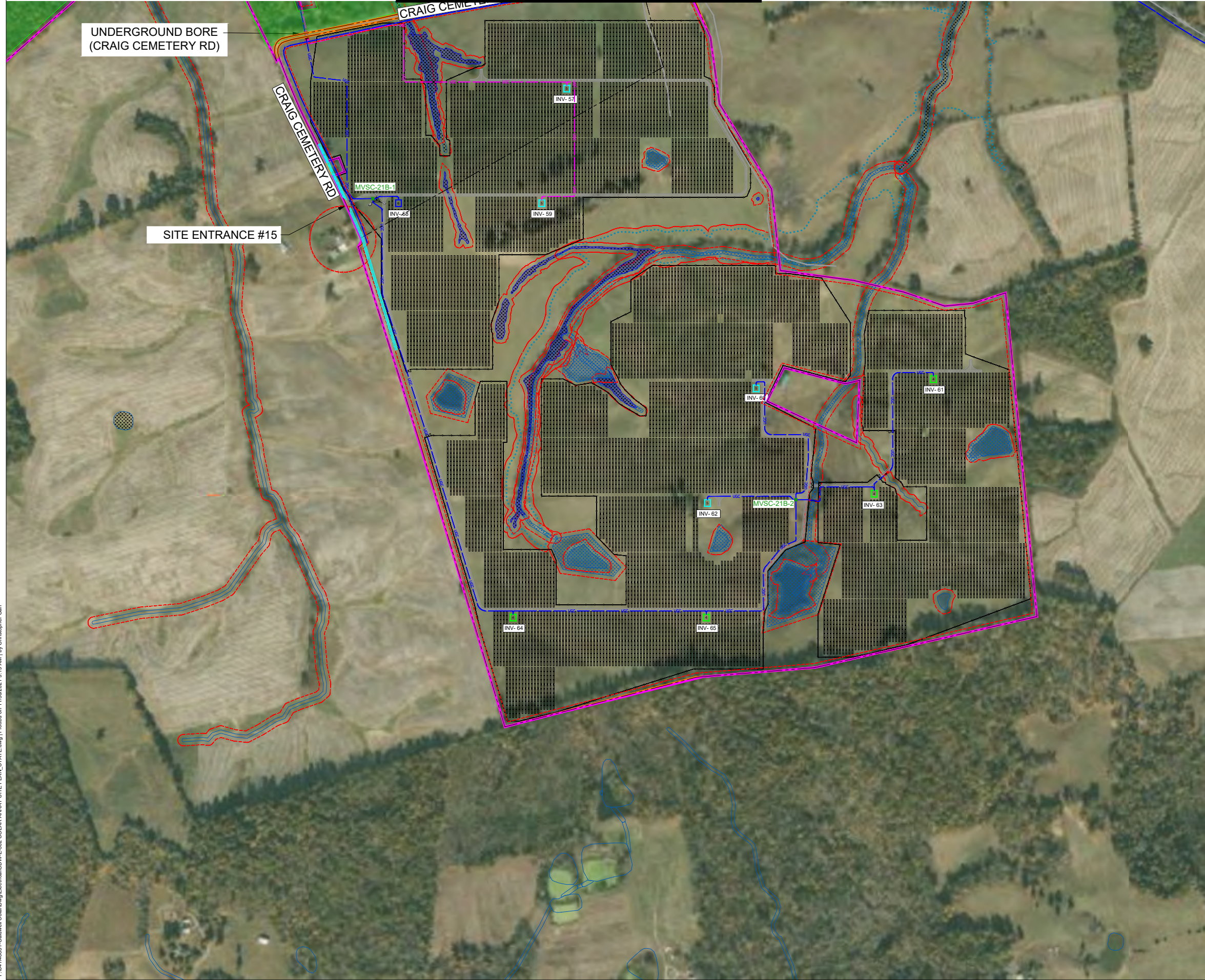
REVISIONS	
#	DESCRIPTION
A	09/27/21 ISSUED FOR REVIEW
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DRAWING DESCRIPTION  
**SOLAR ARRAY SITE PLAN**

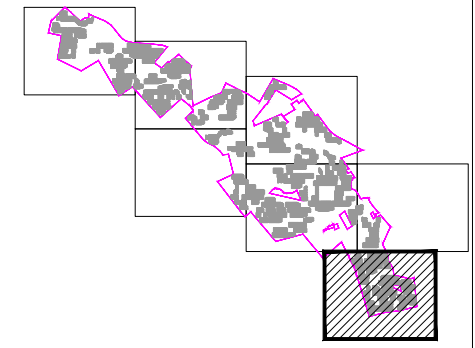
34"x22" FULL SIZE  
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SCALE	SHEET NUMBER
1" = 300'	CDW-E-502-06

MATCHLINE SEE SHEET CDW-E-502.06



**KEY MAP:**

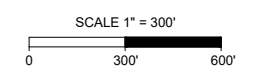
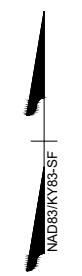


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**CALDWELL SOLAR**  
 CALDWELL COUNTY  
 KENTUCKY

DATE: 08/10/2021  
 PROJECT NUMBER: 46831  
 DRAWN BY: TIMMONS GROUP  
 DESIGNED BY: TIMMONS GROUP

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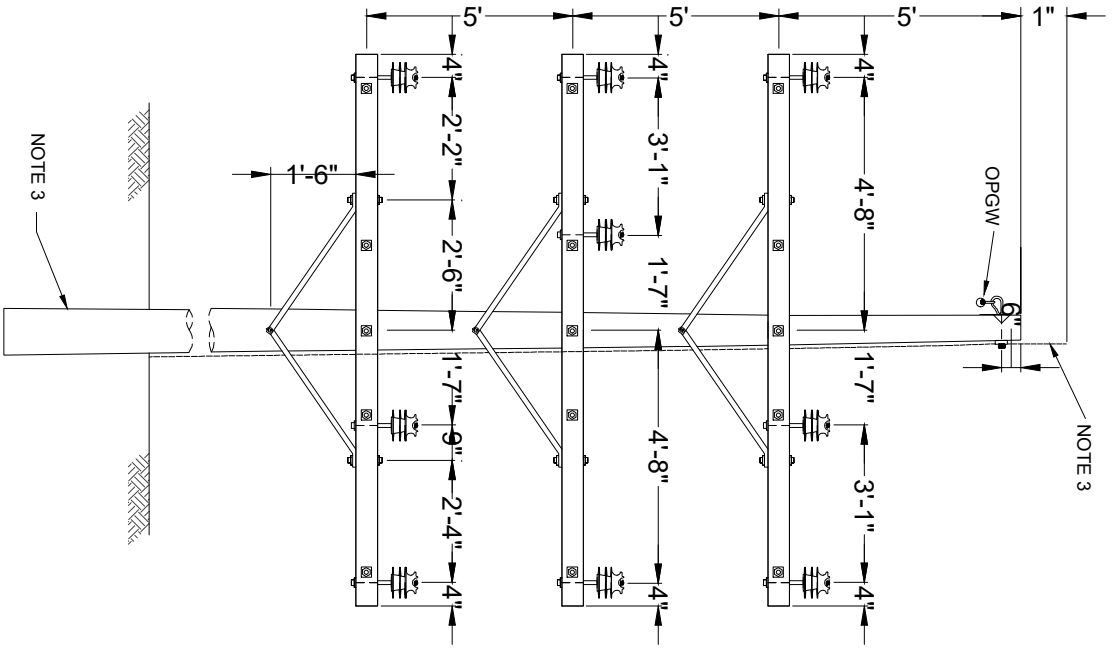
**REVISIONS**

#	DATE	DESCRIPTION
A	09/27/21	ISSUED FOR REVIEW
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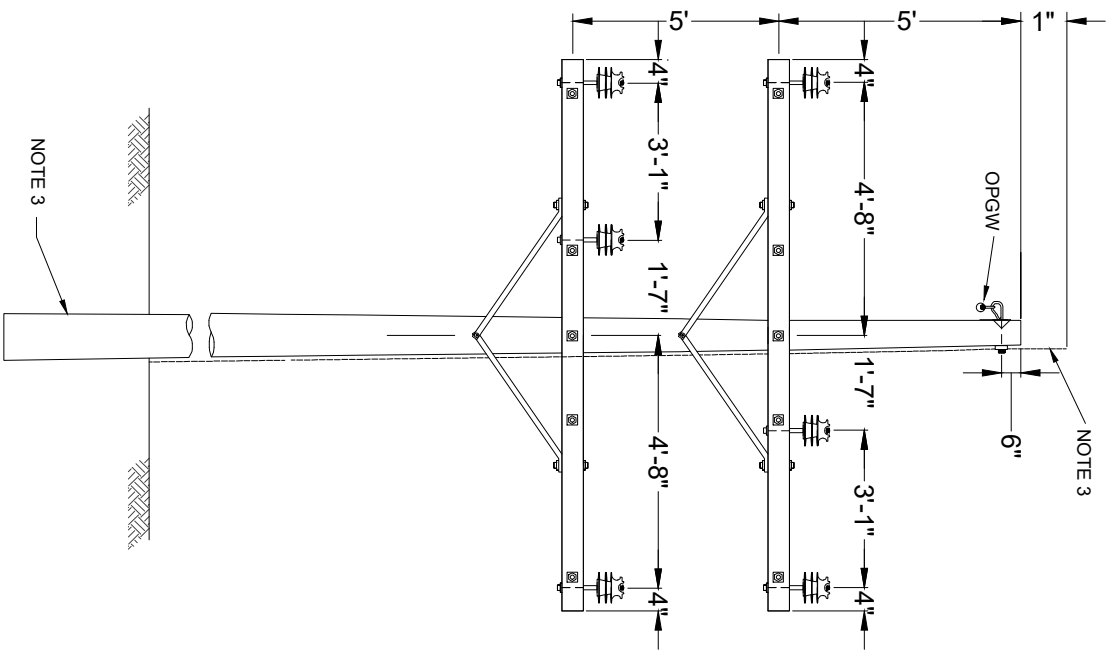
DRAWING DESCRIPTION  
**SOLAR ARRAY SITE PLAN**  
 34"x22" FULL SIZE  
 (17"x11" PLOTS ARE HALF SCALE)  
 SCALE: 1" = 300'  
 SHEET NUMBER: CDW-E-502-07

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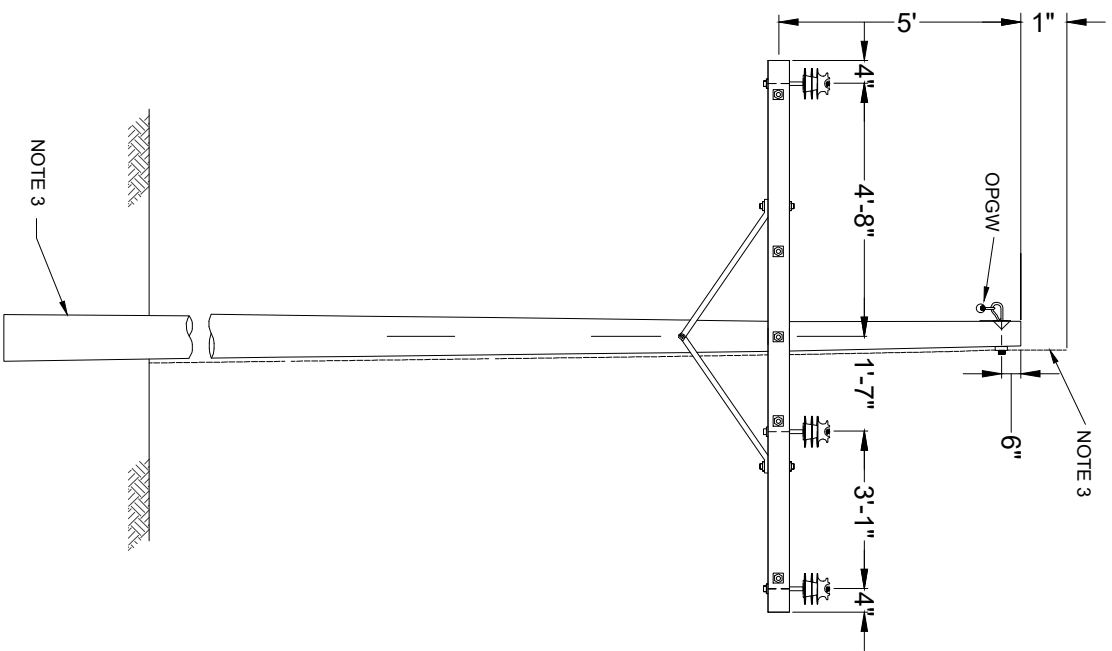
- NOTES:**
1. OFFSET LOCATION OF INSIDE POST INSULATORS BETWEEN CIRCUITS AS SHOWN.
  2. AT LINE ANGLES, MOUNT THE OHGW SUPPORT ASSEMBLY ON THE INTERIOR ANGLE SIDE OF THE POLE.
  3. THE FOLLOWING MATERIALS ARE TO BE SPECIFIED SEPARATELY ON PLAN AND PROFILE DRAWINGS AND STAKING SHEETS: POLE, POLE GROUNDING ASSEMBLY, AND ANY ADDITIONAL GROUNDING OR POLE FOUNDATION UNITS.



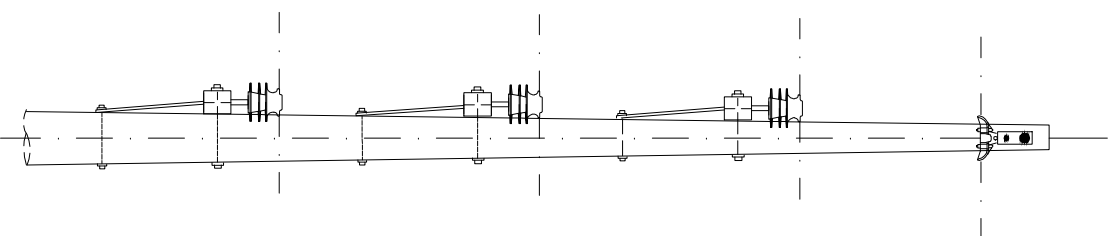
**HOME RUN TRIPLE CIRCUIT  
WOOD POLE**



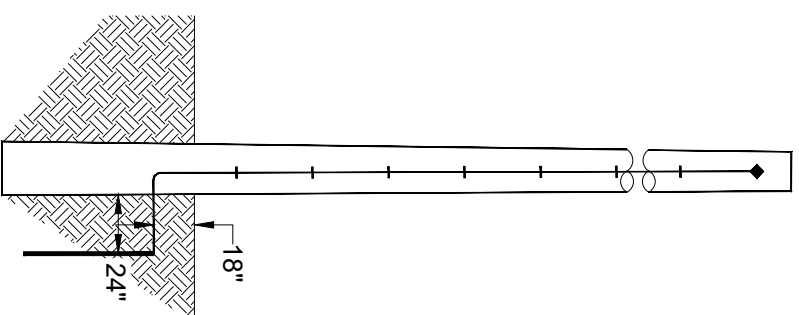
**DOUBLE CIRCUIT  
WOOD POLE**



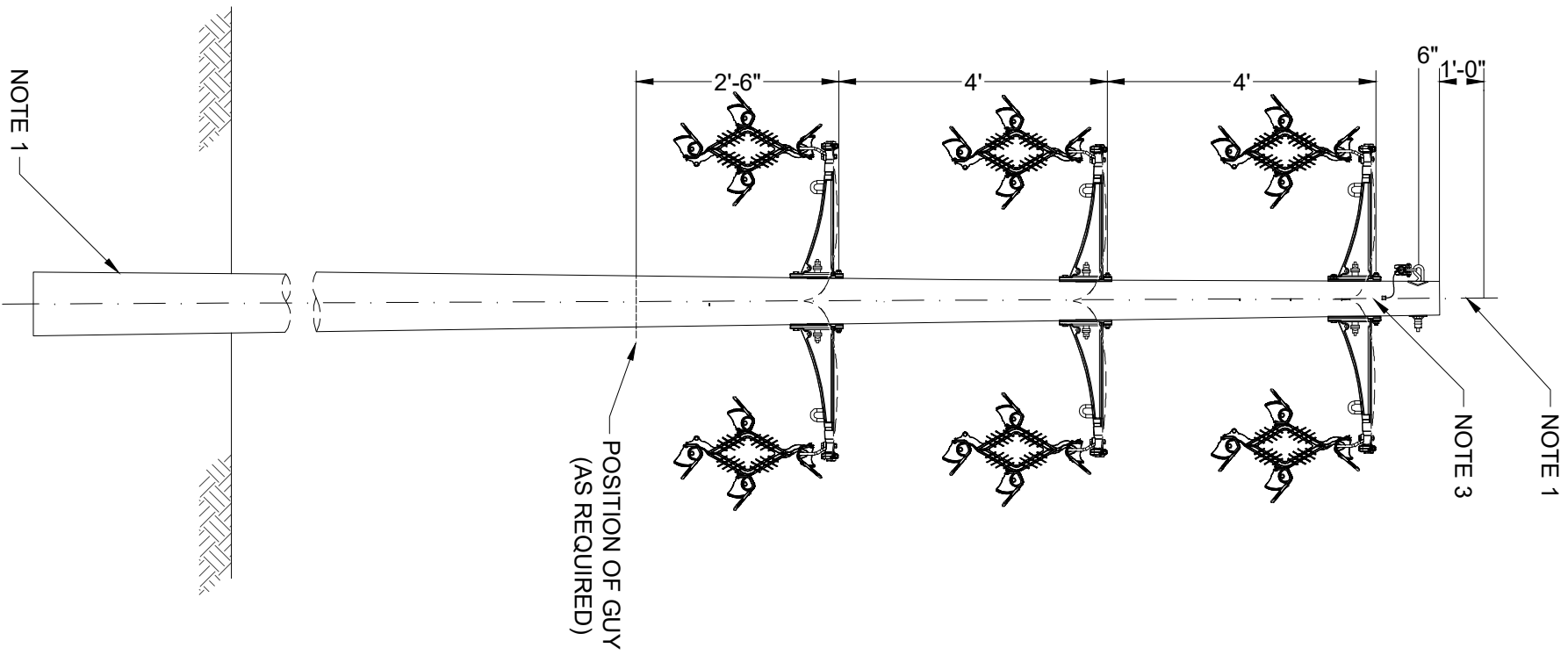
**SINGLE CIRCUIT  
WOOD POLE**



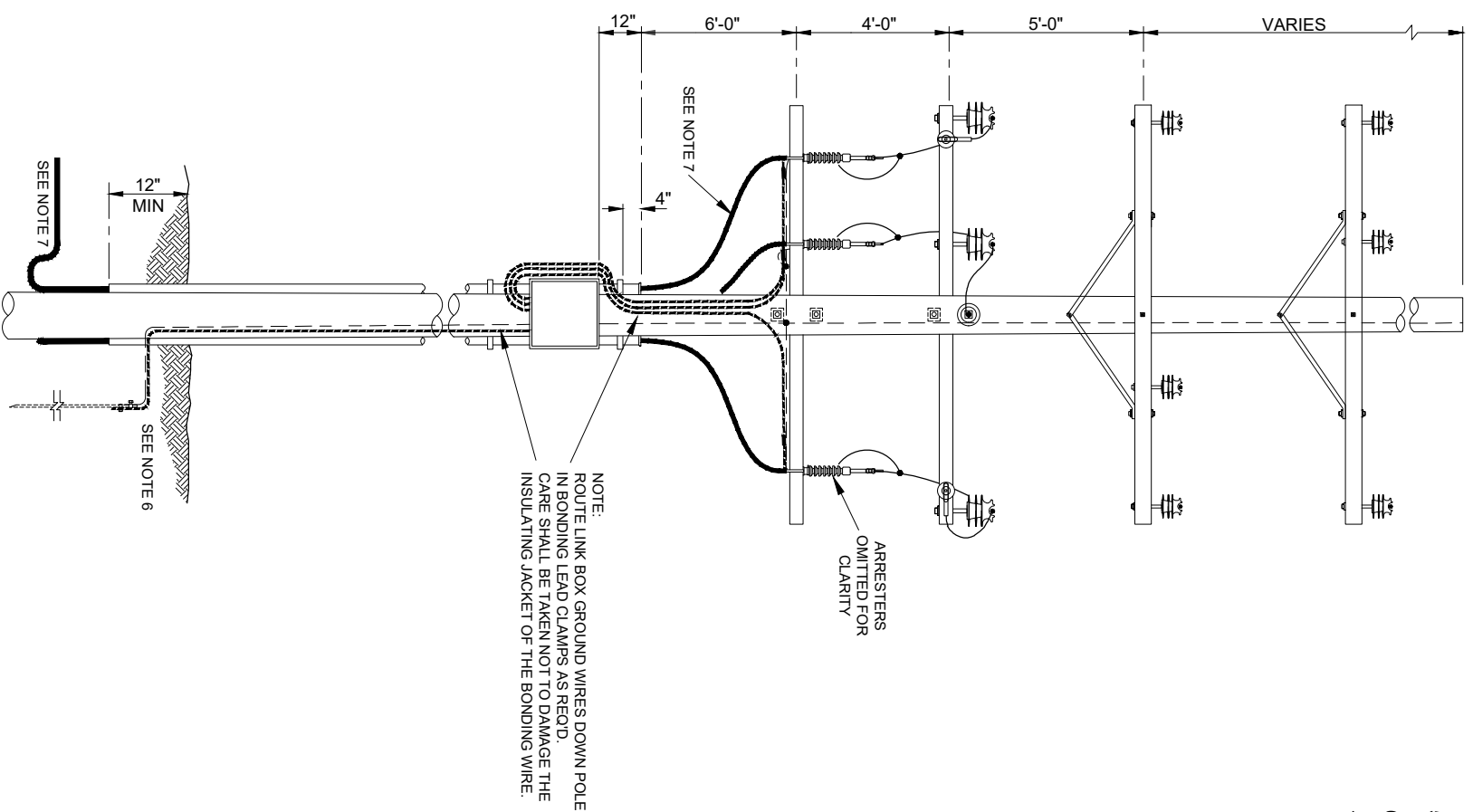
**HOME RUN  
TRIPLE CIRCUIT  
WOOD POLE  
SIDE VIEW**



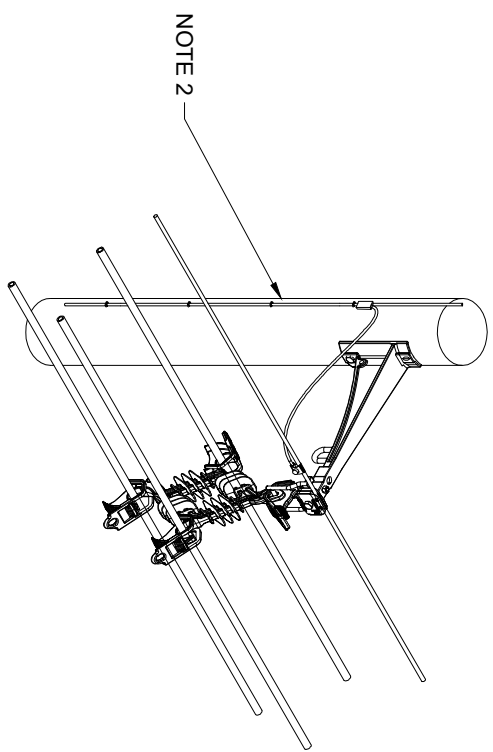
**GROUNDING  
DETAILS**



**HOME RUN 6-CIRCUIT  
STEEL POLE**



**TRIPLE CIRCUIT TANGENT  
34.5KV POLE RISER**



**BRACKET DETAIL**

- NOTES:**
1. THE FOLLOWING MATERIALS ARE TO BE SPECIFIED SEPARATELY ON PLAN AND PROFILE DRAWINGS AND STAKING SHEETS: POLE, POLE GROUNDING ASSEMBLY, AND ANY ADDITIONAL GROUNDING OR POLE FOUNDATION UNITS.
  2. GROUND ALL MESSENGER WIRES TO POLE GROUND WIRE AS SHOWN.
  3. ALL CONDUITS SHALL BE NON-METALLIC.
  4. MINIMUM 9" CLEARANCE BETWEEN GROUNDED PARTS AND BARE CONDUCTOR.
  5. MINIMUM 23" CLEARANCE BETWEEN PHASE CONDUCTORS.
  6. SURGE ARRESTER GROUND LEADS SHALL BE TIED IN TO GROUNDWIRE DOWNLEAD AS SHOWN.
  7. LINK BOXES/SVL'S SHALL HAVE DIRECT CONNECTION TO POLE GROUND/GCC COUNTERPOISE.
  8. MAINTAIN NO LESS THAN 23" BEND RADIUS TO POSITION CABLE.

NOTE:  
ROUTE LINK BOX GROUND WIRES DOWN POLE IN BONDING LEAD CLAMPS AS REQ'D. CABLE SHALL BE TAKEN NOT TO DAMAGE THE INSULATING JACKET OF THE BONDING WIRE.

ARRESTERS OMITTED FOR CLARITY

SEE NOTE 7

12" MIN

SEE NOTE 6

NOTE 2

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TEL 480.386.8058 FAX 804.560.1016 www.timmons.com

**CALDWELL SOLAR**  
CALDWELL COUNTY  
KENTUCKY

DATE: 08/10/2021  
PROJECT NUMBER: 48831  
DRAWN BY: TIMMONS GROUP  
DESIGNED BY: TIMMONS GROUP  
SEAL:

**PRELIMINARY  
NOT FOR CONSTRUCTION**

**REVISIONS**

#	MANDATORY	DESCRIPTION
1	08/21/21	ISSUED FOR REVIEW
2		
3		
4		

TYPICAL OVERHEAD COLLECTOR LINE DETAILS

SCALE: 3/8"=1' FULL SIZE  
1/2"=1' PLOTS AND HALF SCALE  
SHEET NUMBER: CDW-E-522-04  
N.T.S.

# GENERAL NOTES

## PRE-CONSTRUCTION

- CONTRACTOR IS RESPONSIBLE FOR CONTACTING KENTUCKY 811 AT 1-800-752-6007 FOR LOCATION OF ALL UTILITY LINES. TREES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM SEWER/WATER CONNECTIONS.
- NOTIFY LANDSCAPE ARCHITECT OF CONFLICTS.
- VERIFY ALL PLANT MATERIAL QUANTITIES ON THE PLAN PRIOR TO BIDDING. PLANT LIST TOTALS ARE FOR CONVENIENCE ONLY AND SHALL BE VERIFIED PRIOR TO BIDDING.
- PROVIDE PLANT MATERIALS TO THE PLAN PRIOR TO BIDDING. VARIETY INDICATED ON PLANS. ALL PLANT MATERIALS AND INSTALLATION SHALL COMPLY WITH RECOMMENDATIONS AND REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK". IF SPECIFIED PLANT MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON AVAILABILITY TO THE LANDSCAPE ARCHITECT.
- TOGETHER WITH PROPOSAL FOR USE OF EQUIVALENT MATERIAL, PROVIDE AND INSTALL ALL PLANTS AS IN ACCORDANCE WITH DETAILS AND CONTRACT SPECIFICATIONS.
- SOIL TESTS SHALL BE PERFORMED TO DETERMINE SOIL CHARACTER AND QUALITY. NECESSARY SOIL AMENDMENTS SHALL BE PERFORMED PER TEST RESULTS TO ENSURE PLANT HEALTH.

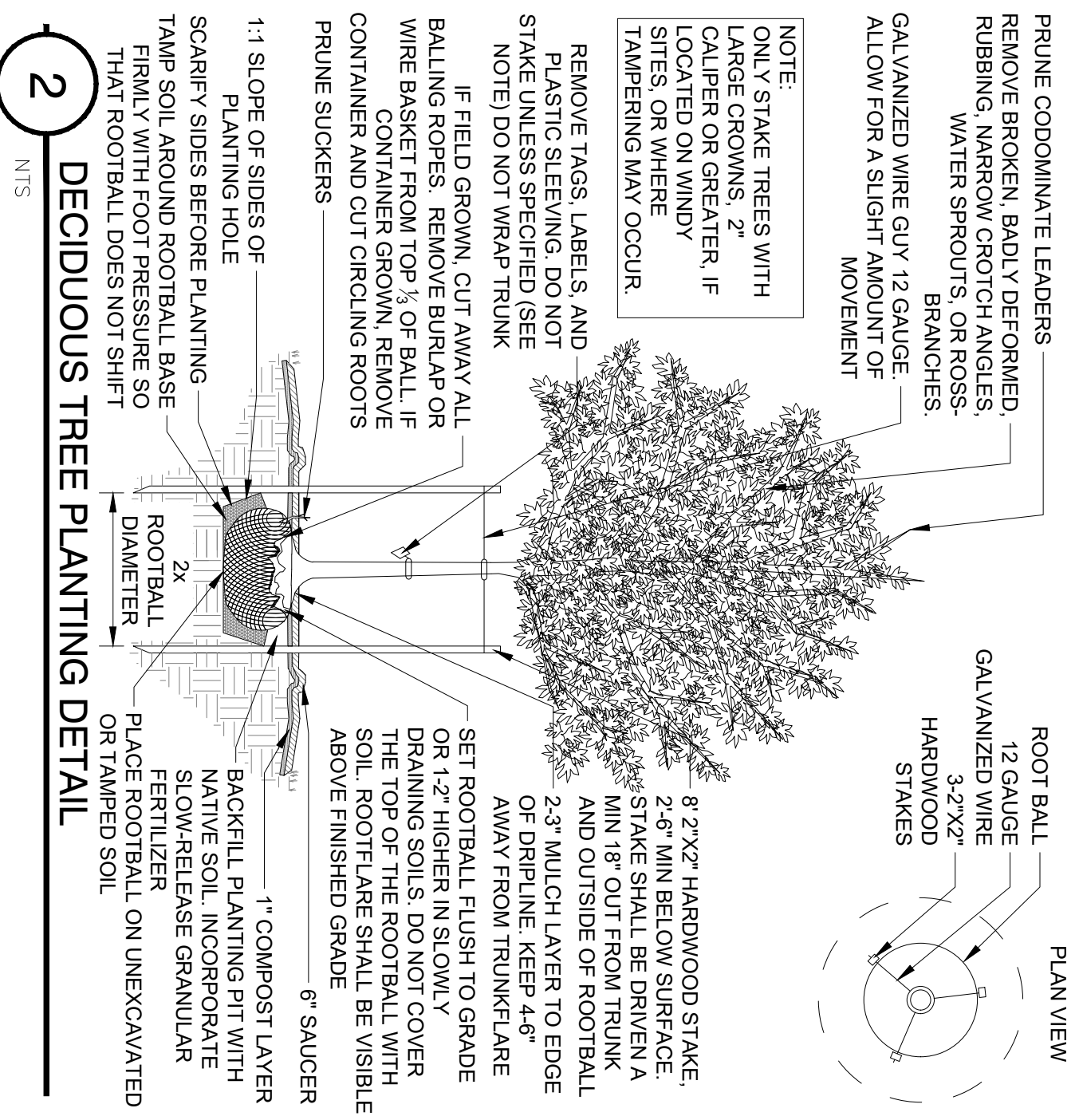
## CONSTRUCTION/INSTALLATION

- LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANTS AND MATERIALS THAT ARE IN AN UNHEALTHY OR UNSIGHTLY CONDITION, AS WELL AS PLANTS AND MATERIALS THAT DO NOT CONFORM TO ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK" LABEL AT LEAST ONE TREE AND ONE SHRUB OF EACH VARIETY AND CALIPER WITH A SECURELY ATTACHED, WATERPROOF TAG BEARING THE DESIGNATION OF BOTANICAL AND COMMON NAME.
- INSTALL LANDSCAPE PLANTINGS AT ENTRANCES/EXITS AND PARKING AREAS ACCORDING TO PLANS SO THAT MATERIALS WILL NOT INTERFERE WITH SIGHT DISTANCES.
- CONTRACTOR IS RESPONSIBLE FOR WATERING ALL PLANT MATERIAL DURING INSTALLATION AND UNTIL FINAL INSPECTION AND ACCEPTANCE BY OWNER. CONTRACTOR SHALL NOTIFY OWNER OF CONDITIONS WHICH AFFECTS THE GUARANTEE.
- INSPECTIONS/GUARANTEE

- UPON COMPLETION OF LANDSCAPE INSTALLATION, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR WHO WILL VERIFY COMPLETENESS, INCLUDING THE REPLACEMENT OF ALL DEAD PLANT MATERIAL. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A FINAL INSPECTION BY THE LANDSCAPE ARCHITECT.
- ALL EXTERIOR PLANT MATERIALS SHALL BE GUARANTEED FOR ONE FULL YEAR AFTER DATE OF FINAL INSPECTION AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH, DEFECTS RESULTING FROM NEGLIGENCE BY THE OWNER, ABUSE OR DAMAGE BY OTHERS, OR UNUSUAL PHENOMENA OR INCIDENTS WHICH ARE BEYOND THE CONTRACTORS CONTROL. ARE NOT THE RESPONSIBILITY OF THE CONTRACTOR.
- PLANT MATERIAL QUANTITIES AND SIZES WILL BE INSPECTED FOR COMPLIANCE WITH APPROVED PLANS BY A SITE PLAN REVIEW AGENT OF THE PLANNING DEPARTMENT PRIOR TO THE RELEASE OF THE CERTIFICATE OF OCCUPANCY.
- REMOVE ALL GUY WIRES AND STAKES 12 MONTHS AFTER INSTALLATION.

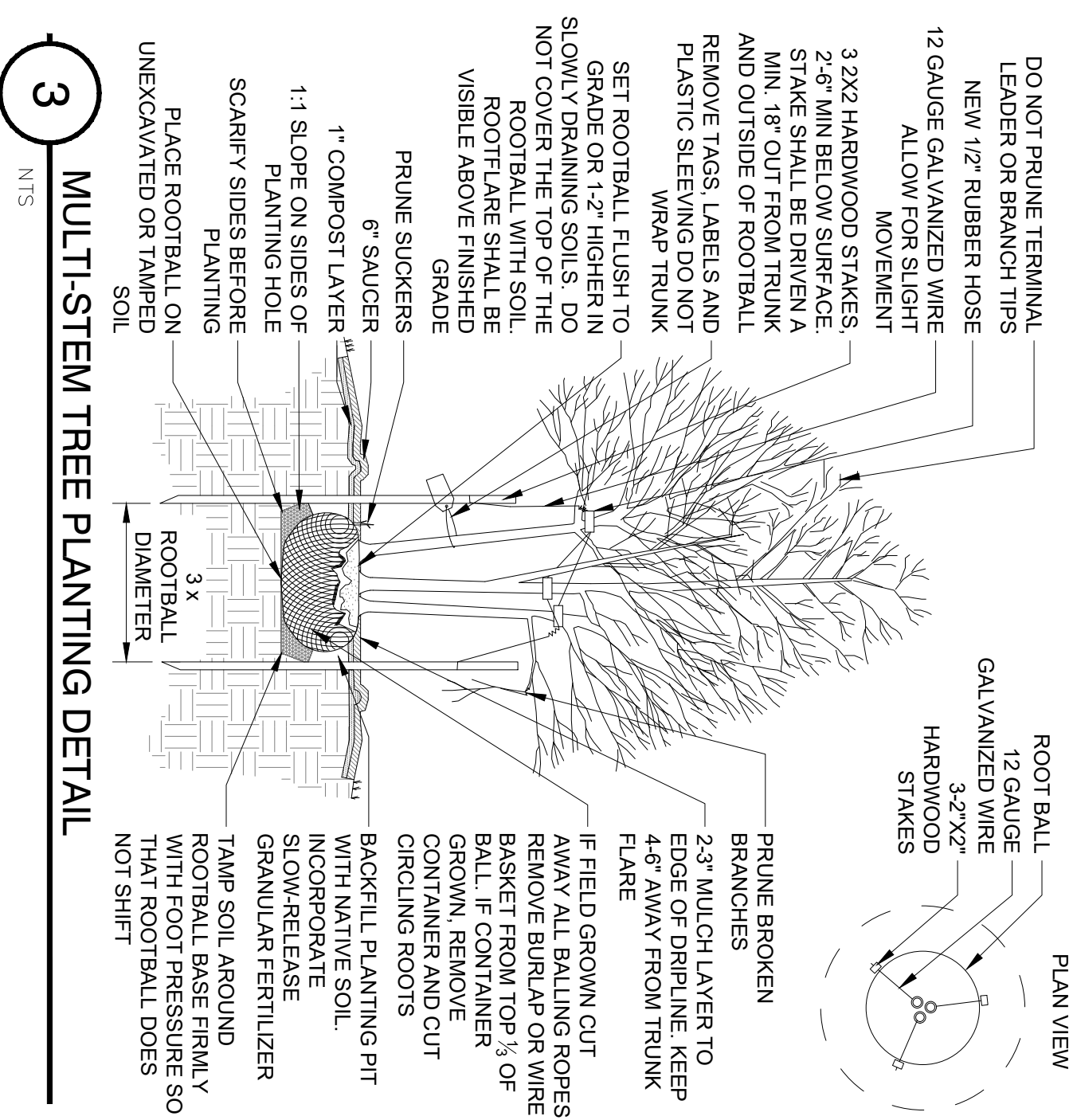
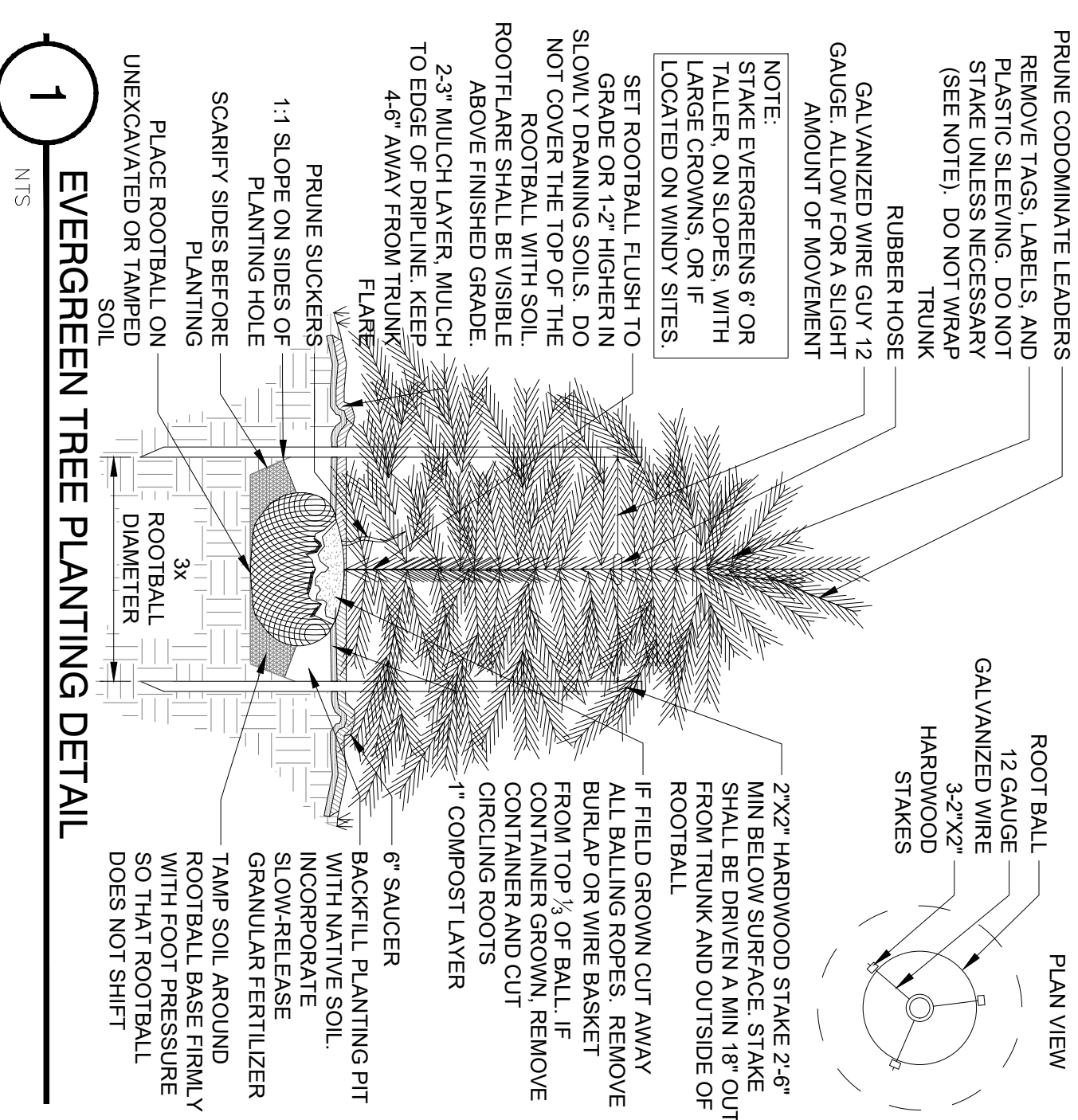
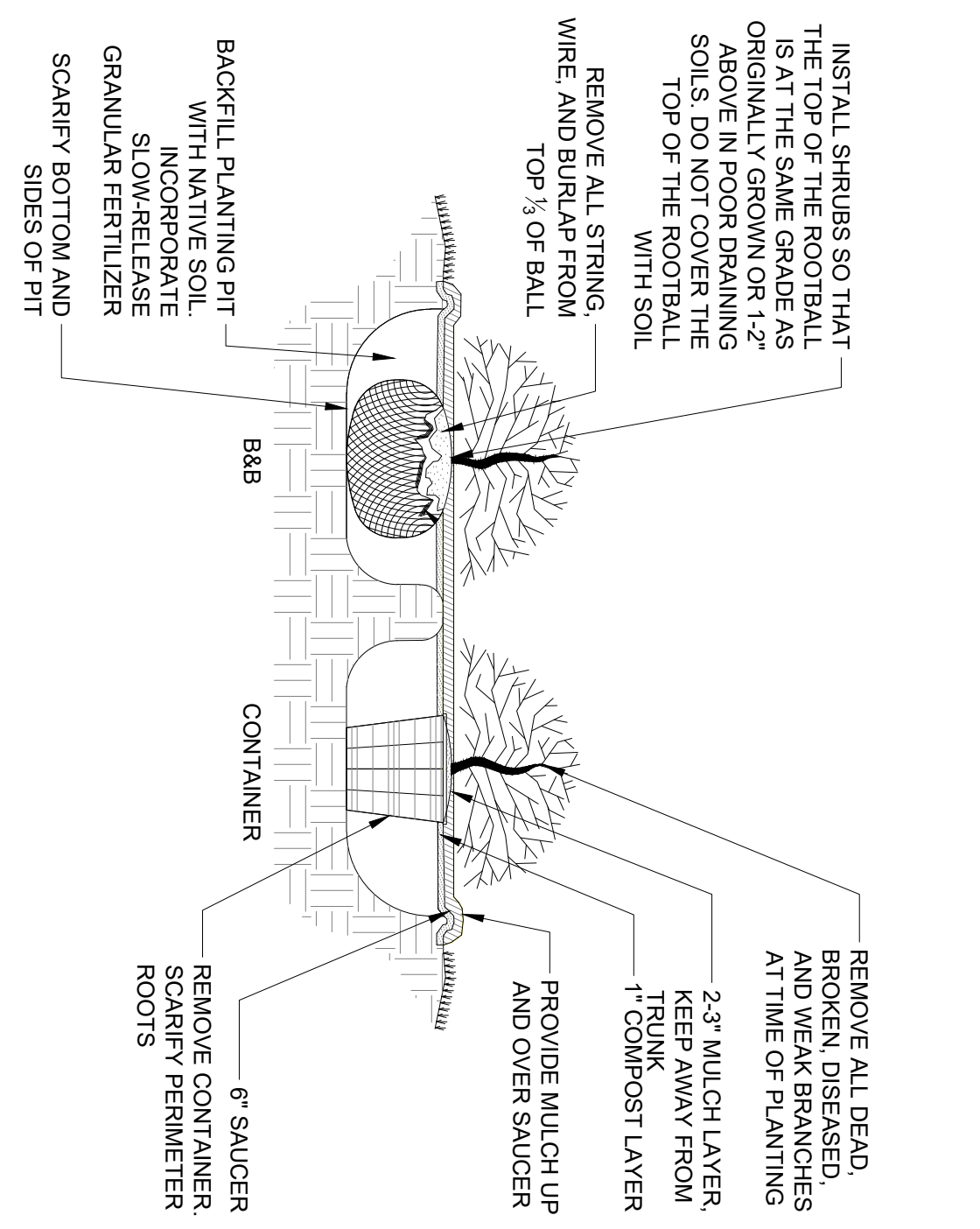
## 5 GENERAL NOTES AND DETAILS

NTS



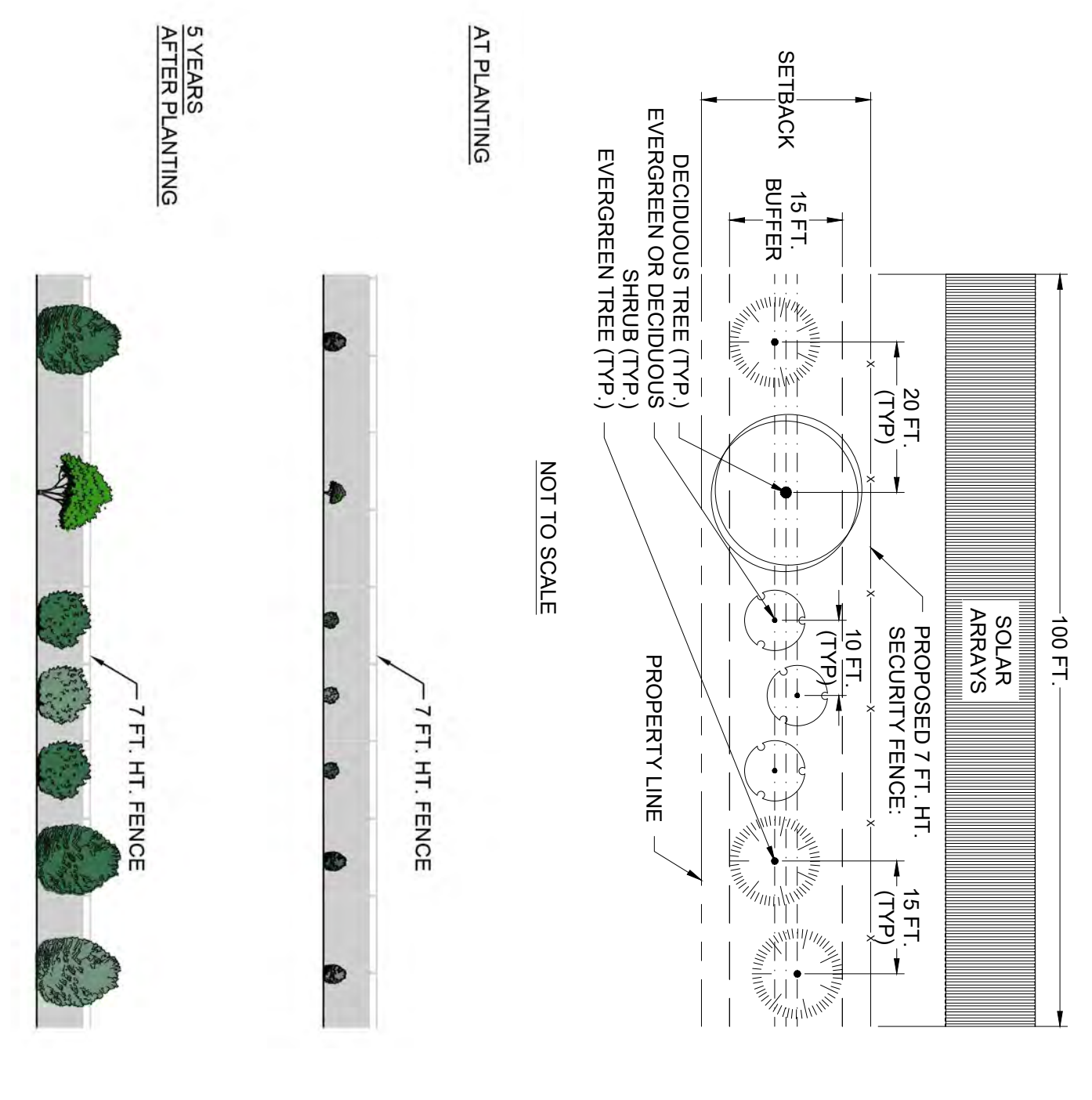
## 4 SHRUB PLANTING DETAIL

NTS



# VEGETATION SCREENING CONCEPT PLAN

## ALTERNATIVE PLAN PROPOSED



PER 100 LINEAR FEET:

- THREE (3) MEDIUM/SMALL EVERGREEN TREES
- ONE (1) MEDIUM/SMALL DECIDUOUS TREE
- THREE (3) LARGE/MEDIUM EVERGREEN AND DECIDUOUS SHRUBS

NOTES

- SCREENING CONSISTS OF A MIXED PLANTING OF DECIDUOUS AND EVERGREEN TREES AND SHRUBS THAT HAVE BEEN SELECTED FOR SCREENING AT MATURE HEIGHT.
- EVERGREEN AND DECIDUOUS TREES ARE 3 FT. HEIGHT AT PLANTING.
- WHERE EXISTING TREES OR SHRUBS EXIST IN THE PROPOSED BUFFER LOCATION, PROPOSED SCREENING MUST BE FIELD-LOCATED AND PLANTED AS NEEDED TO SUPPLEMENT THE EXISTING VEGETATIVE SCREENING.
- TAP THE SPECIES USED ON EACH OF THE THREE TYPES OF PLANTS (EVERGREEN TREES, DECIDUOUS TREES OR SHRUBS) INTO AN AVAILABLE NURSERY AND IS THE PRELIMINARY SCREENING DESIGN. FIELD VERIFICATION OF EXISTING CONDITIONS. SUBJECT TO CHANGE BASED ON FIELD VERIFICATION OF EXISTING CONDITIONS.

RECOMMENDED PLANT MATERIAL

MEDIUM/SMALL EVERGREEN TREES

BOTANICAL NAME / COMMON NAME

ILEX X'CONAR' OAKLEAF / RED HOLL Y/OAKLEAF HOLLY

JUNIPERUS VIRGINIANA 'BRODIE' / EASTERN RED CEDAR

THUJA OCCIDENTALIS 'TECHNY' / EASTERN ARBORVITAE

MEDIUM/SMALL DECIDUOUS TREES

BOTANICAL NAME / COMMON NAME

AMELANCHIER CANADENSIS / SHADBLow SERVICEBERRY

CERCIS CANADENSIS / EASTERN RED BUD

CORNUS FLORIDA / FLOWERING DOGWOOD

LARGE/MEDIUM EVERGREEN AND DECIDUOUS SHRUBS

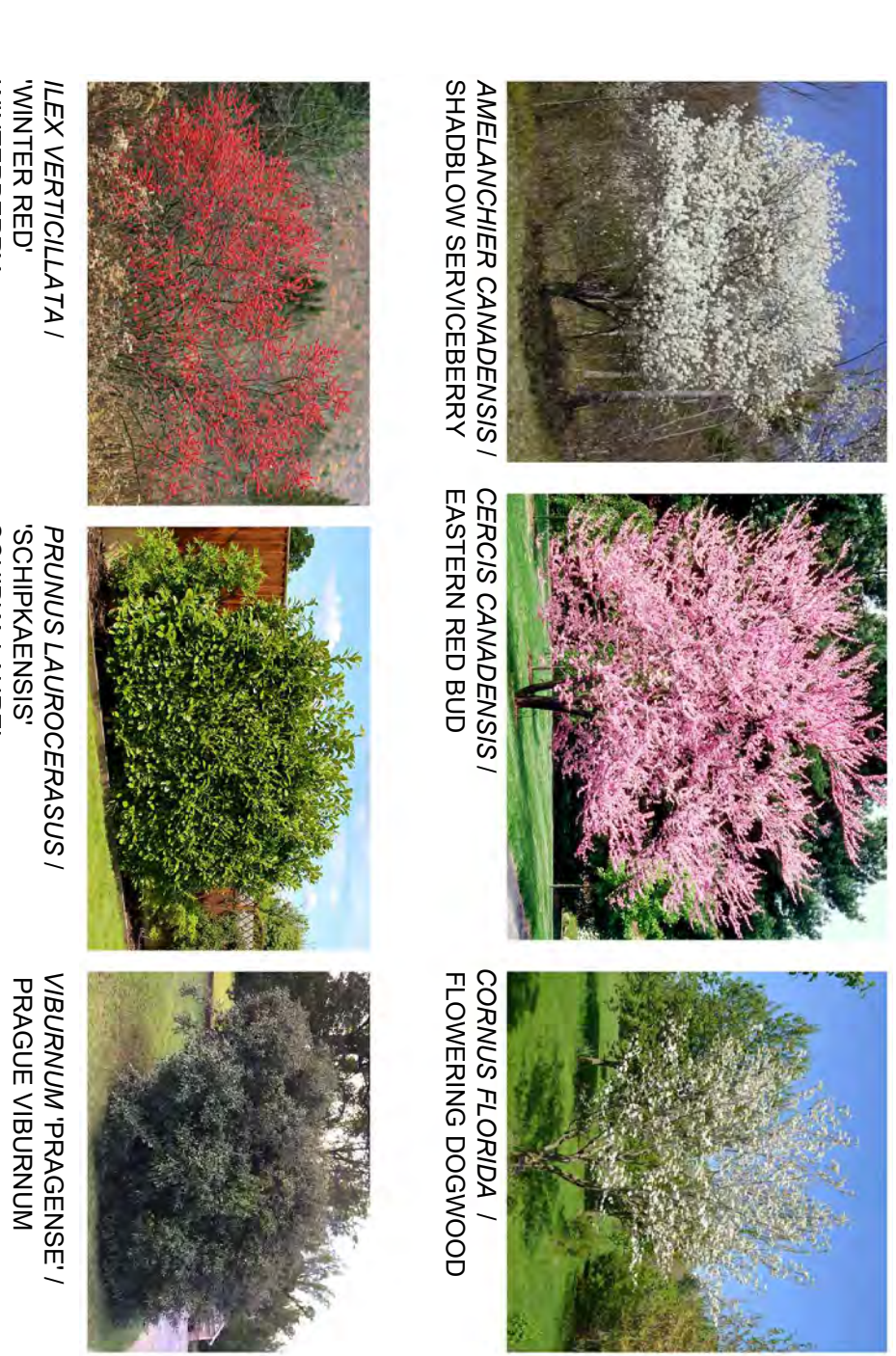
BOTANICAL NAME / COMMON NAME

ILEX VERTICILLATA 'WINTER RED' / SOUTHERN GENTLEMAN / WINTERBERRY\*

PRUNUS LAUROCEASUS / SCHIPKAENIS / SCHIPKA CHERRY LAUREL

VIBURNUM PRAGENSE / PRAQUE VIBURNUM

\* NEED BOTH THE FEMALE AND MALE CULTIVARS LISTED FOR POLLINATION AND FRUIT PRODUCTION. PLANT ONE (1) MALE PER THREE (3) FEMALES.



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PROJECT NAME & ADDRESS

**CALDWELL SOLAR**  
CALDWELL COUNTY  
KENTUCKY

DATE: 09/17/2021  
PROJECT NUMBER: 48831  
DRAWN BY: T. BUCKLEY  
DESIGNED BY: T. BUCKLEY  
SEAL:

**REVISIONS**

#	DATE	DESCRIPTION
1		ISSUED FOR REVIEW
2		
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4		
5		

DRAWING DESCRIPTION

VEGETATION SCREENING NOTES AND DETAILS - VEG. MTDI

3/4" = 1' FULL SCALE  
1/4" = 1' PLOTS ARE HALF SCALE

SCALE: SHEET NUMBER  
N.T.S. CDW-L-100-01