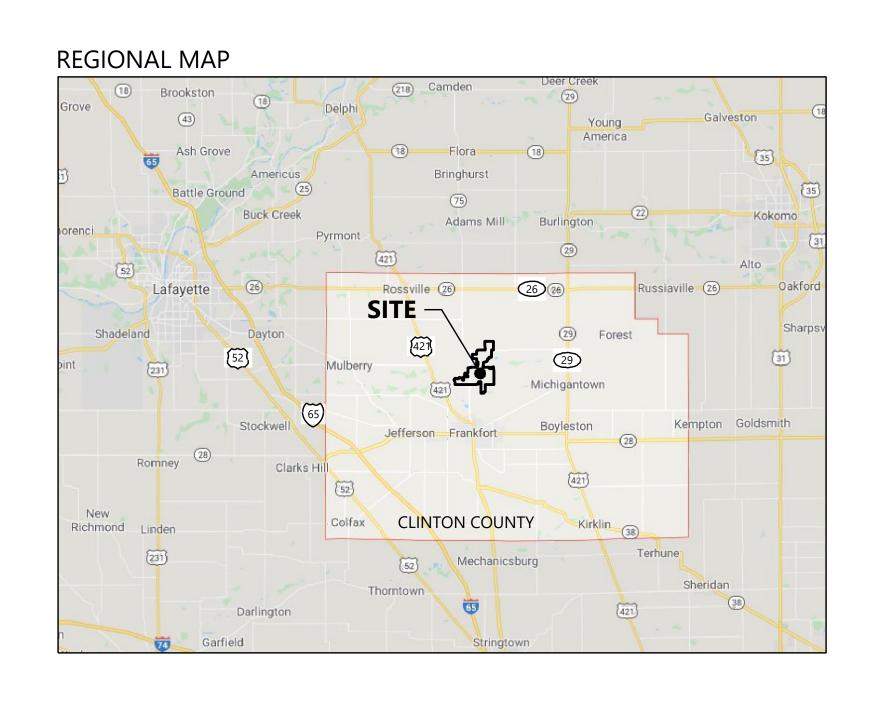
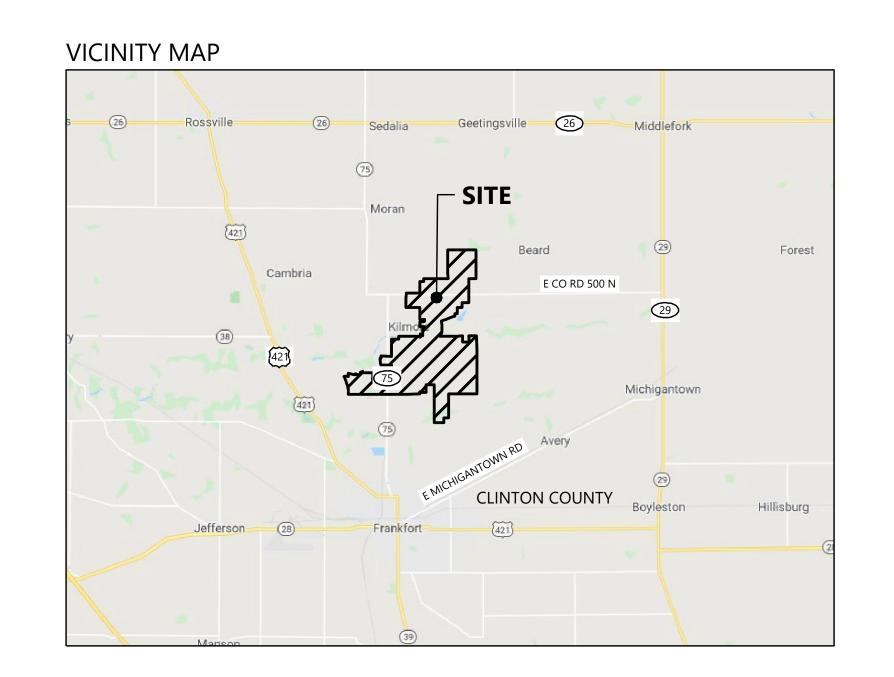
# Hardy Hills Solar Project

Clinton County, Indiana

# Drainage Plan





CONTACT INFORMATION				
TITLE	COMPANY	NAME	ADDRESS	PHONE
OWNER	INVENERGY	KATYA SAMOTESKUL	ONE SOUTH WACKER DRIVE, SUITE 1900 CHICAGO, IL 60606	312-582-1729
PROJECT MANAGER	WESTWOOD PROFESSIONAL SERVICES	KATIE PENNING	1800 DEMING WAY , SUITE 102 MIDDLETON, WI 53562	608-662-5302

Sheet	List Table	Sheet	List Table
heet Number	Sheet Title	Sheet Number	Sheet Title
T.100	Cover	C.308	Site Plan
C.100	Existing Conditions	C.309	Site Plan
C.101	Existing Conditions	C.310	Site Plan
C.102	Existing Conditions	C.311	Site Plan
C.103	Existing Conditions	C.312	Site Plan
C.200	Overall Site Plan	C.313	Site Plan
C.300	Site Plan	C.314	Site Plan
C.301	Site Plan	C.400	Construction Details
C.302	Site Plan	C.401	Construction Details
C.303	Site Plan	C.402	Construction Details
C.304	Site Plan	C.403	Construction Details
C.305	Site Plan		
C.306	Site Plan		
C.307	Site Plan		



PREPARED FOR:



One South Wacker Drive Suite 1900 Chicago, IL 60606

REVISIONS:				
#	DATE	COMMENT		
Α	01/17/2020	CONCEPTUAL PV LAYOUT		
F	02/14/2020	DRAINAGE PLAN		
G	02/25/2020	DRAINAGE PLAN		

03/13/2020 DRAINAGE PLAN

# Hardy Hills Solar Project

Clinton County, Indiana

Cover

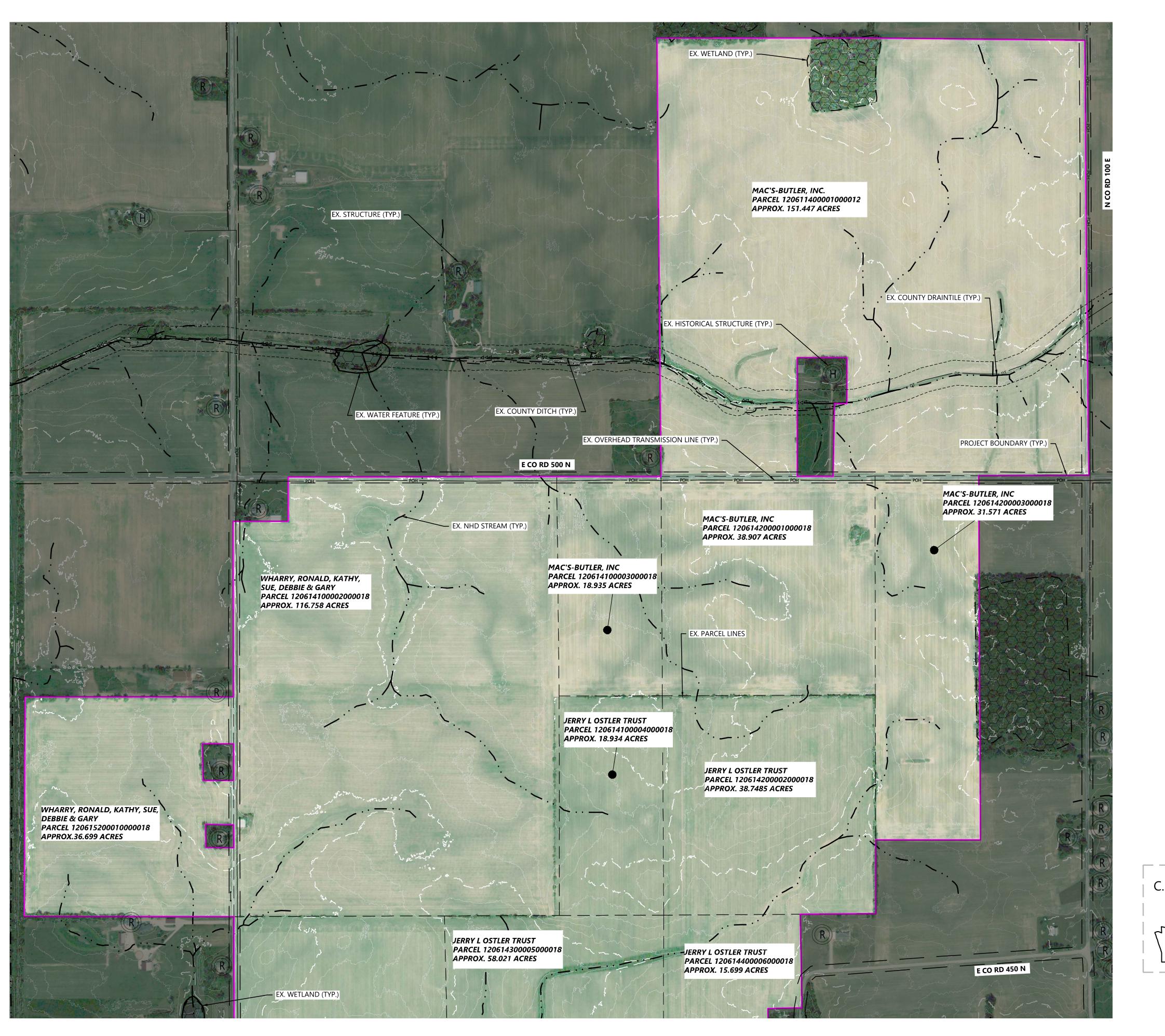
SHEET:

PRELIMINARY NOT FOR CONSTRUCTION

: 03,

03/13/2020

T.100



#### LEGEND:

UNLEASED LAND LEASE BOUNDARY LINE ——— PROPOSED RIGHT OF WAY — – – — PARCEL LINES ---- Easement lines EX. 10' INDEX CONTOUR EX. 2' INTERVAL CONTOUR

EX. TREELINE

——— POH — EX. OVERHEAD TRANSMISSION LINE ——— — EX. ROAD EX. WATER FEATURE

EX. WETLAND ——— DT ———— EX. COUNTY DRAIN TILE EX. COUNTY DITCH → · · · · · · EX. NHD STREAM

FEMA FLOOD ZONE

EX. CEMETERY EX. HISTORIC STRUCTURE

EX. STRUCTURE

Westwood Professional Services, Inc.

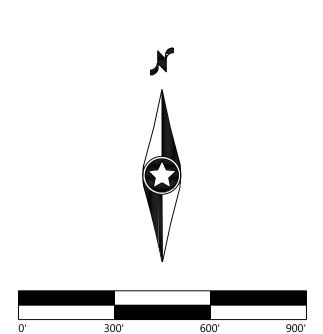
### Invenergy

One South Wacker Drive Suite 1900 Chicago, IL 60606

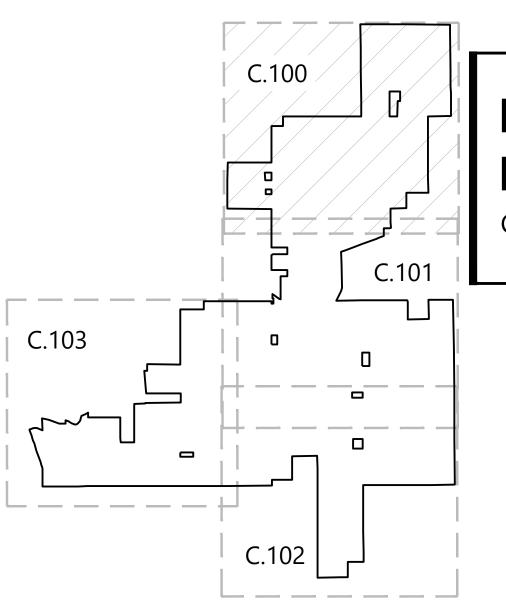
REVISIONS:				
#	DATE	COMMENT		
Α	01/17/2020	CONCEPTUAL PV LAYOUT		
F	02/14/2020	DRAINAGE PLAN		
G	02/25/2020	DRAINAGE PLAN		

H 03/02/2020 DRAINAGE PLAN

I 03/13/2020 DRAINAGE PLAN



KEY MAP:



#### **Hardy Hills Solar Project**

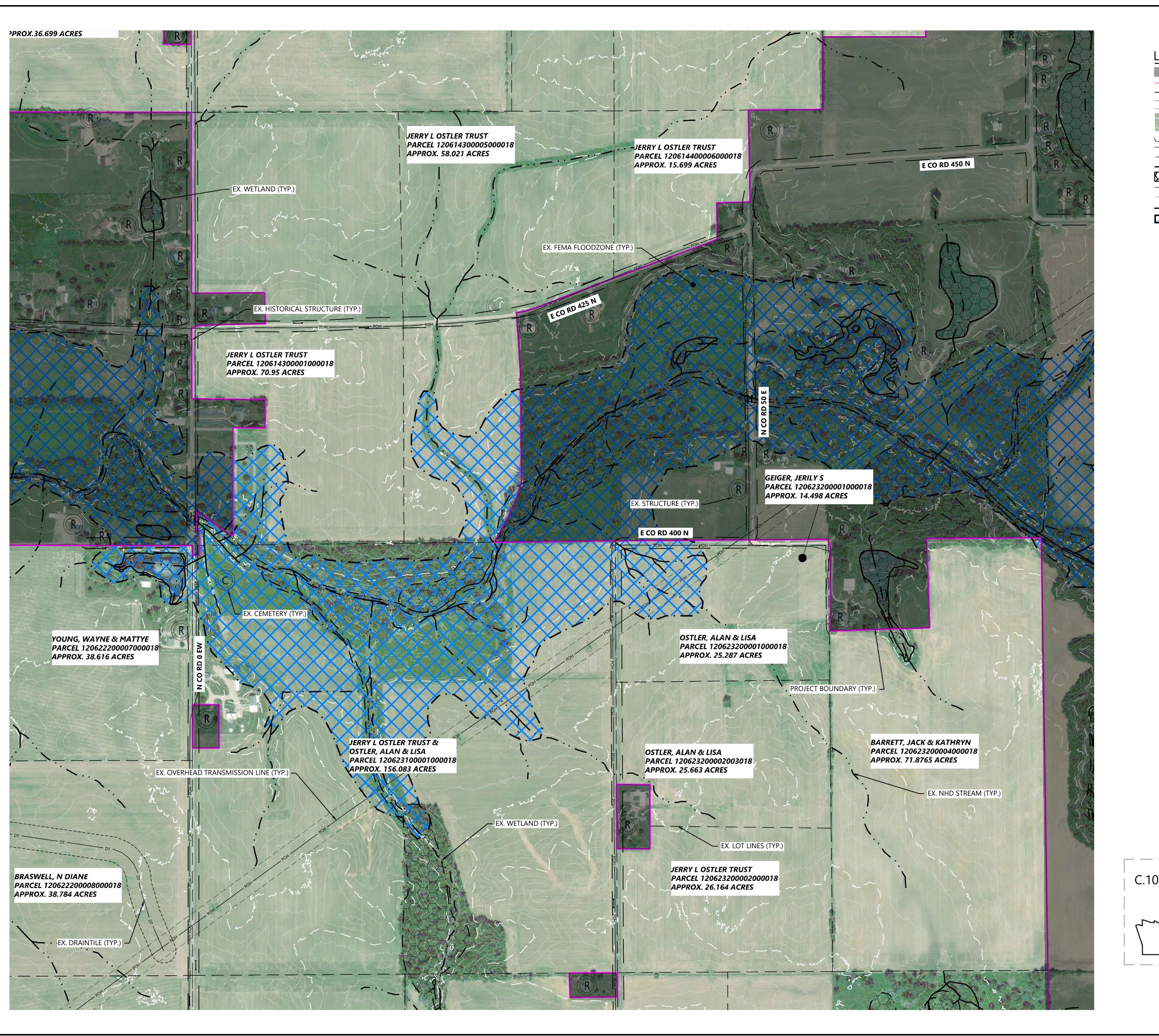
Clinton County, Indiana

**Existing Conditions** 

PRELIMINARY NOT FOR CONSTRUCTION

03/13/2020 DATE:

C.100



#### LEGEND:

UNLEASED LAND LEASE BOUNDARY LINE ——— PROPOSED RIGHT OF WAY — - - — PARCEL LINES ---- Easement lines EX. 10' INDEX CONTOUR EX. 2' INTERVAL CONTOUR

EX. TREELINE ——— POH — EX. OVERHEAD TRANSMISSION LINE ——— — EX. ROAD

EX. WATER FEATURE EX. WETLAND — DT — EX. COUNTY DRAIN TILE —— ⊳⊳⊳ ——— EX. COUNTY DITCH

**— · · — · · —** EX. NHD STREAM

FEMA FLOOD ZONE EX. CEMETERY

EX. HISTORIC STRUCTURE

EX. STRUCTURE

Westwood Professional Services, Inc.

### Invenergy

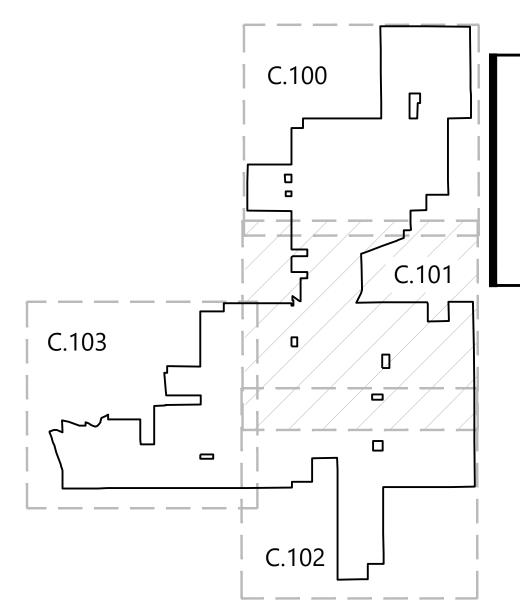
One South Wacker Drive Suite 1900 Chicago, IL 60606

REV	ISIONS:	
#	DATE	COMMENT
Α	01/17/2020	CONCEPTUAL PV LAYOUT
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G	02/25/2020	DRAINAGE PLAN

H 03/02/2020 DRAINAGE PLAN

I 03/13/2020 DRAINAGE PLAN

KEY MAP:



#### **Hardy Hills Solar Project**

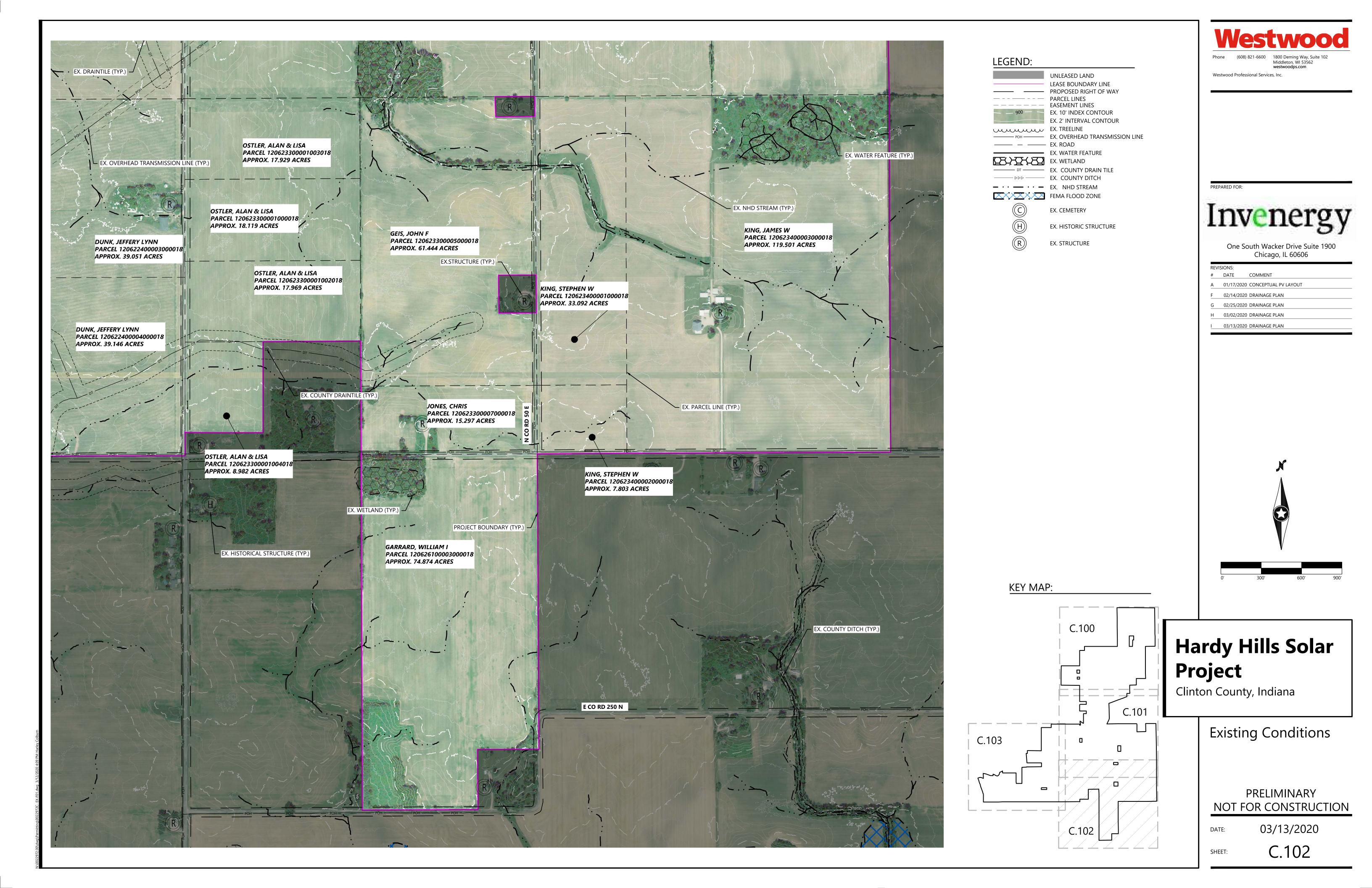
Clinton County, Indiana

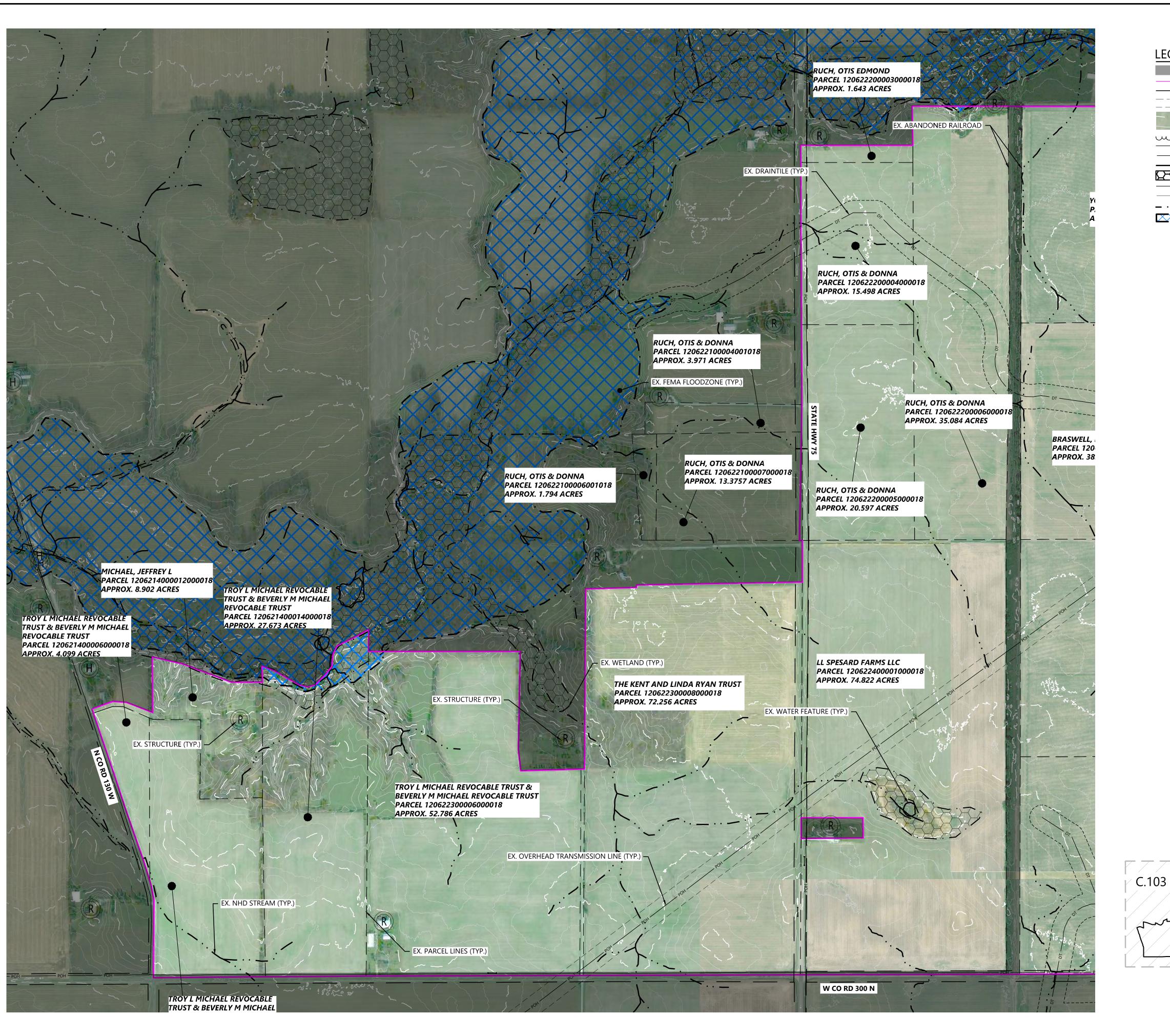
**Existing Conditions** 

PRELIMINARY NOT FOR CONSTRUCTION

03/13/2020 DATE:

C.101 SHEET:





#### LEGEND:

UNLEASED LAND LEASE BOUNDARY LINE ----- PROPOSED RIGHT OF WAY — – – — PARCEL LINES ---- EASEMENT LINES EX. 10' INDEX CONTOUR EX. 2' INTERVAL CONTOUR

EX. TREELINE ——— POH — EX. OVERHEAD TRANSMISSION LINE —— — EX. ROAD

EX. WATER FEATURE EX. WETLAND — DT — EX. COUNTY DRAIN TILE

—— ⊳⊳⊳ ——— EX. COUNTY DITCH → · · · · · EX. NHD STREAM EX. CEMETERY

FEMA FLOOD ZONE

EX. HISTORIC STRUCTURE

EX. STRUCTURE

Westwood Professional Services, Inc.

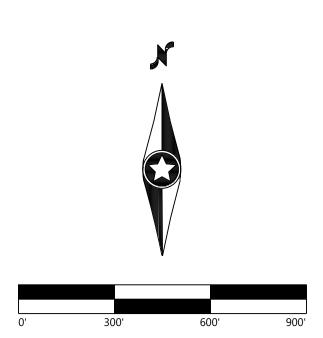
## Invenergy

One South Wacker Drive Suite 1900 Chicago, IL 60606

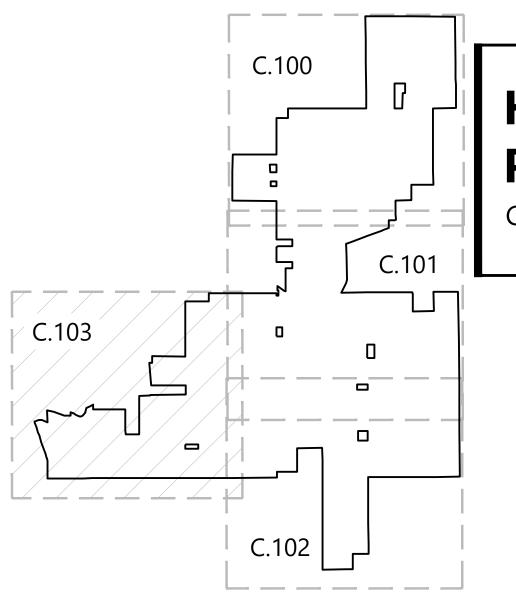
# DATE COMMENT A 01/17/2020 CONCEPTUAL PV LAYOUT F 02/14/2020 DRAINAGE PLAN G 02/25/2020 DRAINAGE PLAN

I 03/13/2020 DRAINAGE PLAN

H 03/02/2020 DRAINAGE PLAN



KEY MAP:



#### **Hardy Hills Solar Project**

Clinton County, Indiana

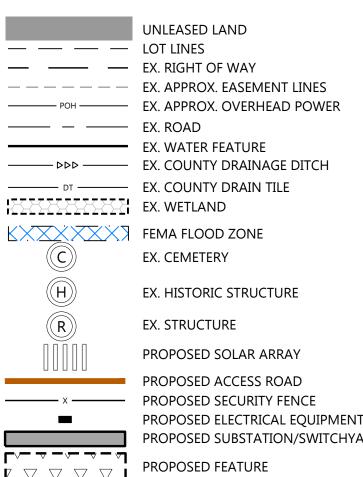
**Existing Conditions** 

PRELIMINARY NOT FOR CONSTRUCTION

03/13/2020 DATE:

C.103 SHEET:





SETBACK	TABLE
L DARTICIDATINIC DROBERTY/LINE	FO FT

LEASED LAND

FENCED AREA

LAND USE

1790 AC

1261 AC

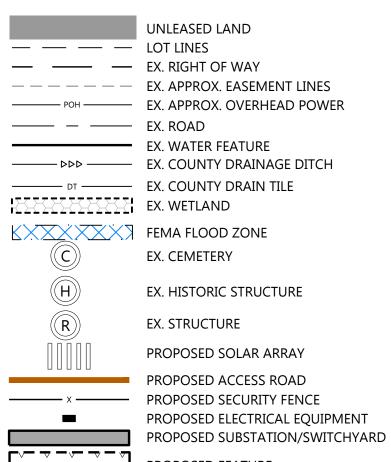
SETBACK TABLE		
NON-PARTICIPATING PROPERTY L	INE 50 FT	
TYPICAL ROAD RIGHT OF WAY*	50 FT (83' FROM ROAD CENTERLINE)	
INDIANA HIGHWAY 75 RIGHT OF	WAY** (85' FROM ROAD CENTERLINE)	
NON-PARTICIPATING RESIDENCE	200 FT	
PARTICIPATING RESIDENCE	200 FT	
COUNTY DRAIN TILE AND DITCHE	S*** 75 FT EITHER SIDE	
WETLAND	50 FT	
FEMA FLOODPLAIN	50 FT	
CEMETERY	200 FT	
HISTORIC STRUCTURE	200 FT	
TRANSMISSION LINE****	60 FT	

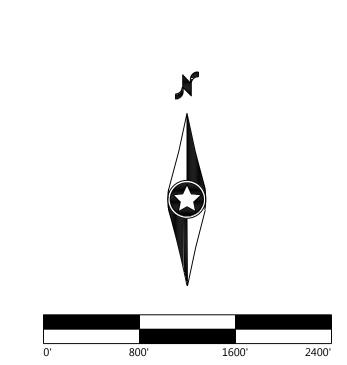
- \* BASED ON 66 FT RIGHT OF WAY WIDTH
- \*\* BASED ON 70 FT RIGHT OF WAY WIDTH

  \*\*\* BASED ON 150FT TOTAL WIDTH

  \*\*\*\* BASED ON 120 FT TOTAL EASEMENT WIDTH
- \*\*\*\*\* TRANSMISSION LINE AND COUNTY DRAIN LINE SETBACKS ARE APPLIED TO







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One South Wacker Drive Suite 1900

Chicago, IL 60606

A 01/17/2020 CONCEPTUAL PV LAYOUT

F 02/14/2020 DRAINAGE PLAN

G 02/25/2020 DRAINAGE PLAN

H 03/02/2020 DRAINAGE PLAN

I 03/13/2020 DRAINAGE PLAN

# DATE

Westwood Professional Services, Inc.

#### **Hardy Hills Solar** Project

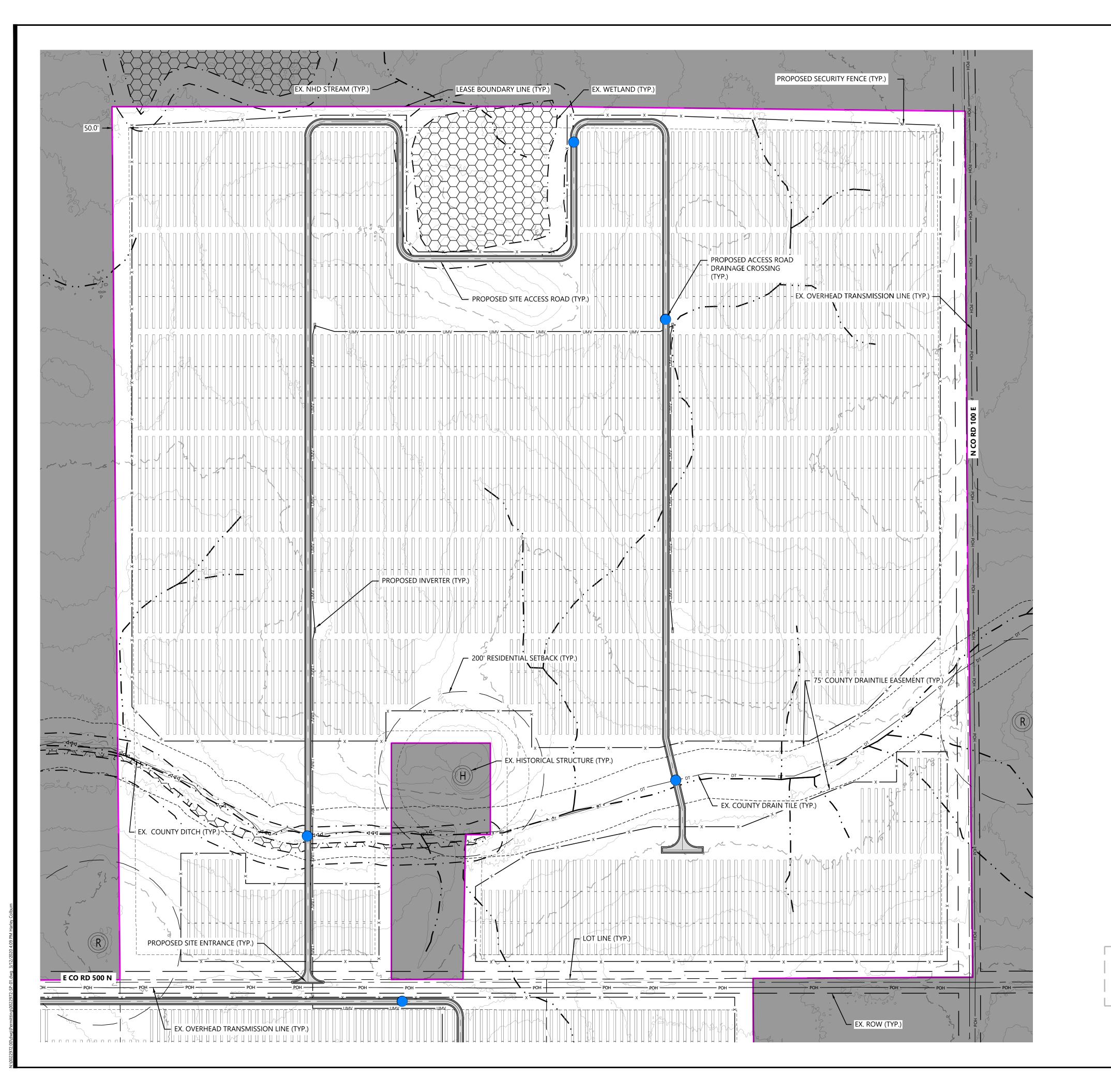
Clinton County, Indiana

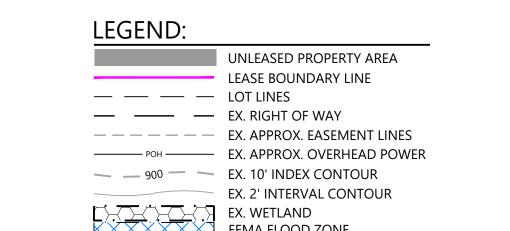
Overall Site Plan

PRELIMINARY NOT FOR CONSTRUCTION

03/13/2020

C.200 SHEET:





EX. 2' INTERVAL CONTOUI

EX. WETLAND

FEMA FLOOD ZONE

EX. STRUCTURE SETBACK

EX. PAVED ROAD

EX. COUNTY DRAIN TILE

— · · — · · — NATIONAL HYDROGRAPHY DATASET (NHD) STREAM
— ▷ ▷ □ EX. COUNTY DRAINAGE DITCH

EX. CEMETERY

EX. HISTORIC STRUCTURE

EX. RESIDENCE

PROPOSED SOLAR ARRAY

PROPOSED MODULE SETBACK
PROPOSED ACCESS ROAD
PROPOSED SECURITY FENCE
PROPOSED ELECTRICAL EQUIPMENT

PROPOSED ACCESS ROAD DRAINAGE CROSSING

PROPOSED PROJECT FACILITY
PROPOSED LOW WATER CROSSING
PROPOSED MEDIUM VOLTAGE COLLECTION
PROPOSED CHILVENT

 $\triangledown$   $\triangledown$   $\triangledown$   $\triangledown$   $\triangledown$  Grading avoidance area

SETBACK TABLE 50 FT NON-PARTICIPATING PROPERTY LINE 50 FT TYPICAL ROAD RIGHT OF WAY\* (83' FROM ROAD CENTERLINE) INDIANA HIGHWAY 75 RIGHT OF WAY\* (85' FROM ROAD CENTERLINE) 200 FT NON-PARTICIPATING RESIDENCE 200 FT PARTICIPATING RESIDENCE 75 FT EITHER SIDE COUNTY DRAIN TILE AND DITCHES\*\*\* 50 FT WETLAND 50 FT FEMA FLOODPLAIN 200 FT CEMETERY 200 FT HISTORIC STRUCTURE TRANSMISSION LINE\*\*\*\* 60 FT

\* BASED ON 66 FT RIGHT OF WAY WIDTH

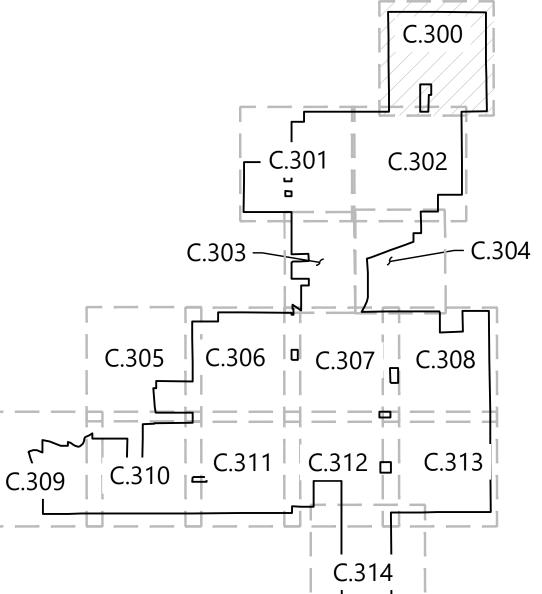
\*\* BASED ON 70 FT RIGHT OF WAY WIDTH

\*\*\* BASED ON 150FT TOTAL WIDTH
\*\*\*\* BASED ON 120 FT TOTAL EASEMENT WIDTH

\*\*\*\*\* TRANSMISSION LINE AND COUNTY DRAIN LINE SETBACKS ARE APPLIED TO THE PROJECT SECURITY FENCE

NOTE:
PROPOSED ACCESS ROAD DRAINAGE CROSSINGS (CULVERT AND LOW WATER CROSSINGS) TO BE SIZED DURING FINAL CONSTRUCTION DESIGN PHASE.

## KEY MAP:





Westwood Professional Services, Inc.

PREPARED FOR:

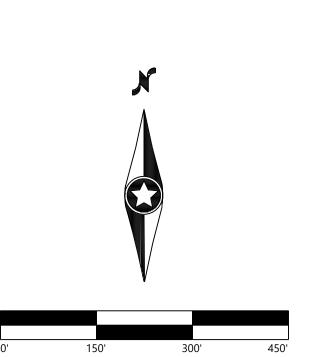
#### Invenergy

One South Wacker Drive Suite 1900 Chicago, IL 60606

REVIS	SIONS:	
<b>‡</b>	DATE	COMMENT
4	01/17/2020	CONCEPTUAL PV LAYOUT
	02/14/2020	DRAINAGE PLAN
3	02/25/2020	DRAINAGE PLAN

H 03/02/2020 DRAINAGE PLAN

I 03/13/2020 DRAINAGE PLAN



# Hardy Hills Solar Project

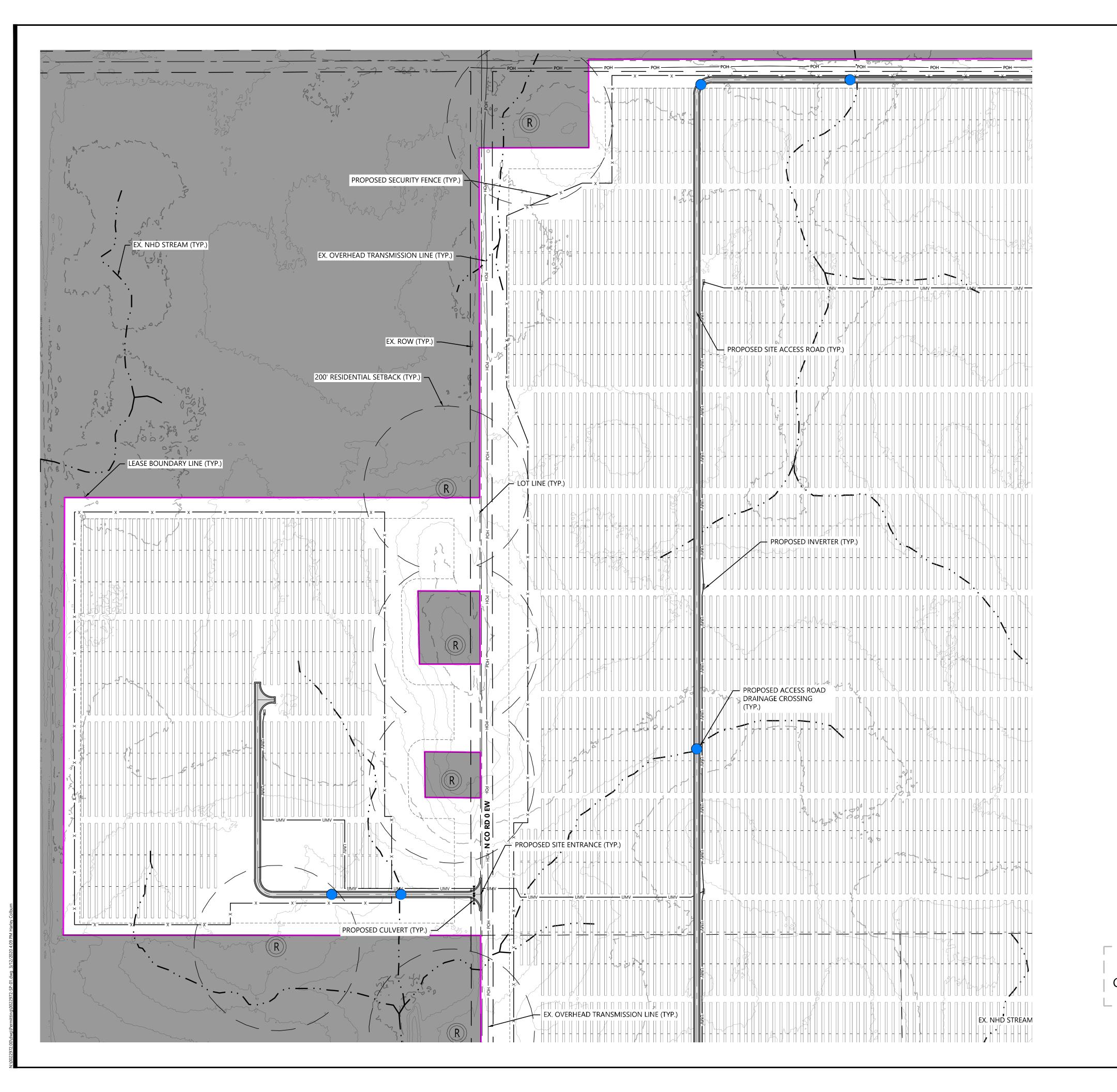
Clinton County, Indiana

Site Plan

PRELIMINARY
NOT FOR CONSTRUCTION

O3/13/2020

SHEET: **C.300** 





— — — LOT LINES —— EX. RIGHT OF WAY ---- EX. APPROX. EASEMENT LINES EX. APPROX. OVERHEAD POWER

— \_\_\_\_ 900 — \_\_\_ EX. 10' INDEX CONTOUR EX. 2' INTERVAL CONTOUR EX. WETLAND

FEMA FLOOD ZONE EX. STRUCTURE SETBACK ——— — EX. PAVED ROAD ——— DT ——— EX. COUNTY DRAIN TILE

EX. WATER FEATURE — · · — · · — NATIONAL HYDROGRAPHY DATASET (NHD) STREAM EX. COUNTY DRAINAGE DITCH



EX. CEMETERY

EX. HISTORIC STRUCTURE EX. RESIDENCE

PROPOSED SOLAR ARRAY

----- PROPOSED MODULE SETBACK PROPOSED ACCESS ROAD — × — PROPOSED SECURITY FENCE

PROPOSED ELECTRICAL EQUIPMENT PROPOSED PROJECT FACILITY PROPOSED LOW WATER CROSSING

— UMV — PROPOSED MEDIUM VOLTAGE COLLECTION

GRADING AVOIDANCE AREA

PROPOSED ACCESS ROAD DRAINAGE CROSSING

SETBACK	TABLE
NON-PARTICIPATING PROPERTY LINE	50 FT
TYPICAL ROAD RIGHT OF WAY*	50 FT (83' FROM ROAD CENTERLINE)
INDIANA HIGHWAY 75 RIGHT OF WAY**	50 FT (85' FROM ROAD CENTERLINE)
NON-PARTICIPATING RESIDENCE	200 FT
PARTICIPATING RESIDENCE	200 FT
COUNTY DRAIN TILE AND DITCHES***	75 FT EITHER SIDE
WETLAND	50 FT
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CEMETERY	200 FT
HISTORIC STRUCTURE	200 FT
TRANSMISSION LINE****	60 FT

- \* BASED ON 66 FT RIGHT OF WAY WIDTH
- \*\*\* BASED ON 150FT TOTAL WIDTH

  \*\*\*\* BASED ON 120 FT TOTAL EASEMENT WIDTH
- \*\*\*\*\* TRANSMISSION LINE AND COUNTY DRAIN LINE SETBACKS ARE APPLIED TO

PROPOSED ACCESS ROAD DRAINAGE CROSSINGS (CULVERT AND LOW WATER

One South Wacker Drive Suite 1900

Chicago, IL 60606

# DATE COMMENT

A 01/17/2020 CONCEPTUAL PV LAYOUT

F 02/14/2020 DRAINAGE PLAN

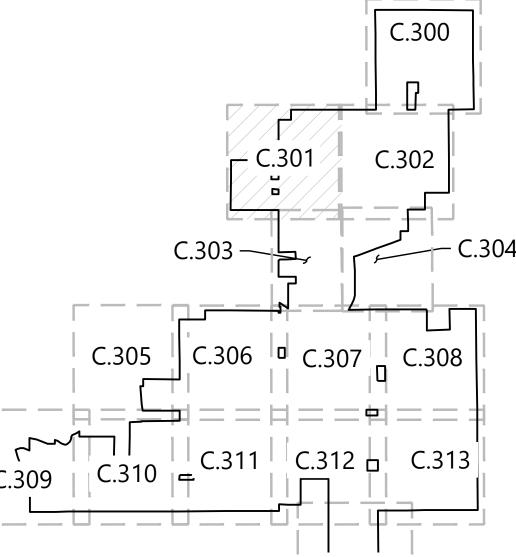
G 02/25/2020 DRAINAGE PLAN

H 03/02/2020 DRAINAGE PLAN

I 03/13/2020 DRAINAGE PLAN

Westwood Professional Services, Inc.

KEY MAP:



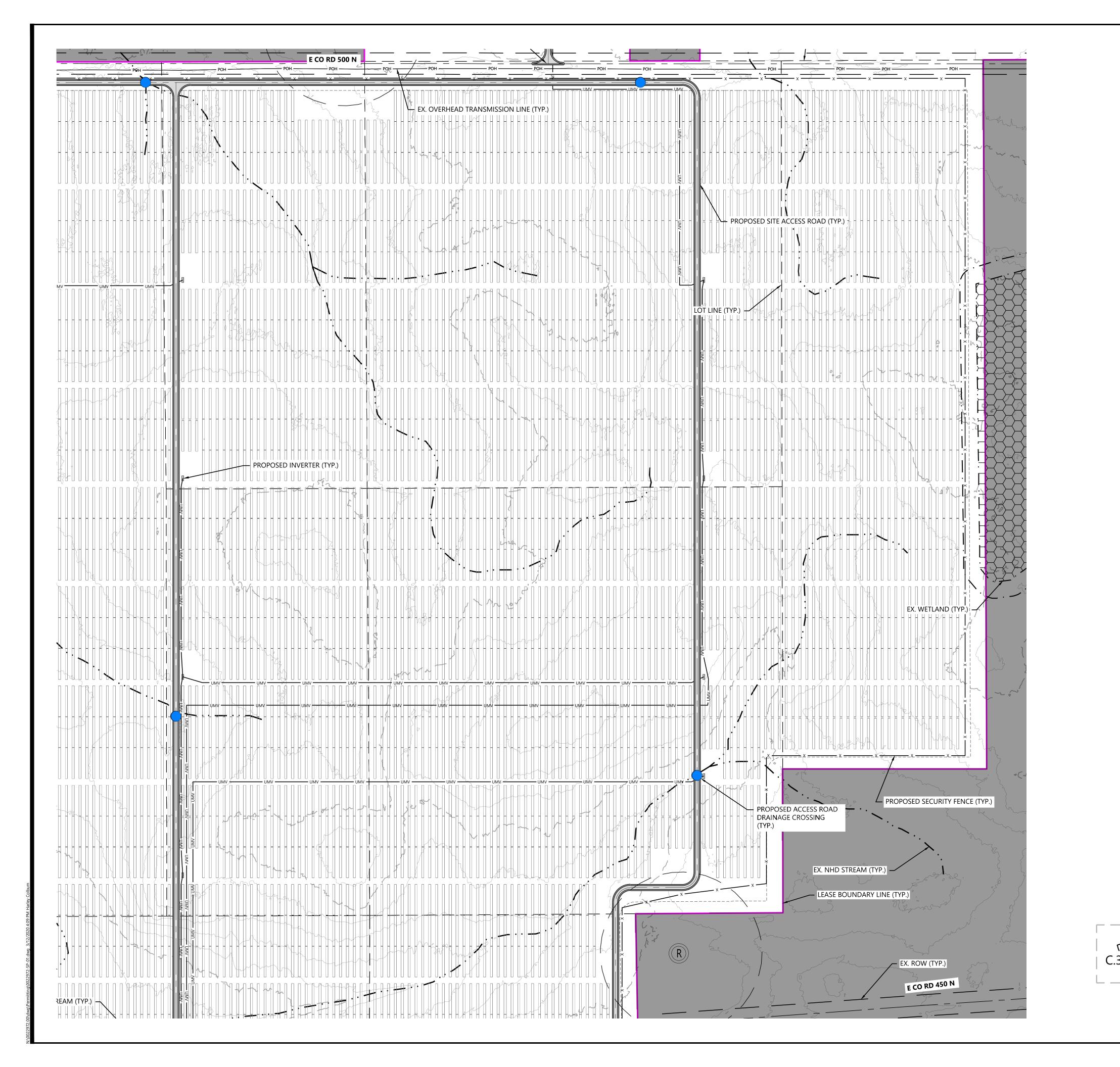
## **Hardy Hills Solar Project**Clinton County, Indiana

Site Plan

PRELIMINARY NOT FOR CONSTRUCTION

03/13/2020

C.301 SHEET:



#### LEGEND: UNLEASED PROPERTY AREA LEASE BOUNDARY LINE — — — LOT LINES —— EX. RIGHT OF WAY

---- EX. APPROX. EASEMENT LINES EX. APPROX. OVERHEAD POWER

— 900 — EX. 10' INDEX CONTOUR EX. 2' INTERVAL CONTOUR FEMA FLOOD ZONE EX. STRUCTURE SETBACK

——— — EX. PAVED ROAD ——— DT ——— EX. COUNTY DRAIN TILE

— · · — · · — NATIONAL HYDROGRAPHY DATASET (NHD) STREAM EX. COUNTY DRAINAGE DITCH

EX. CEMETERY

EX. HISTORIC STRUCTURE

PROPOSED SOLAR ARRAY ----- PROPOSED MODULE SETBACK

EX. RESIDENCE

PROPOSED ACCESS ROAD — x — PROPOSED SECURITY FENCE PROPOSED ELECTRICAL EQUIPMENT PROPOSED PROJECT FACILITY

PROPOSED LOW WATER CROSSING — UMV — PROPOSED MEDIUM VOLTAGE COLLECTION

GRADING AVOIDANCE AREA

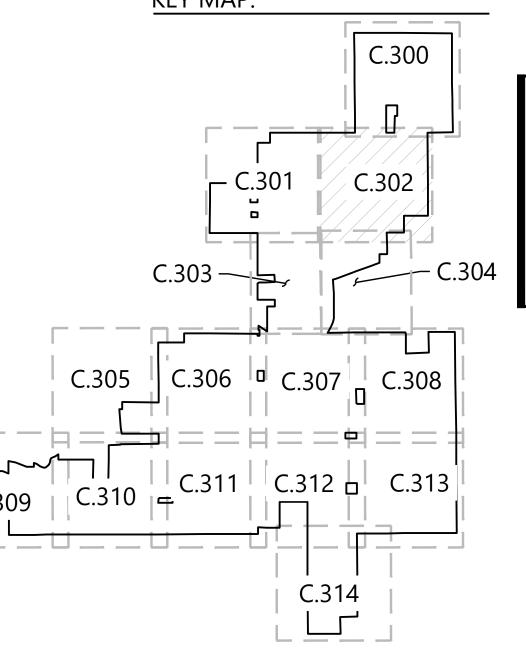
PROPOSED ACCESS ROAD DRAINAGE CROSSING

SETBACK	TABLE
NON-PARTICIPATING PROPERTY LINE	50 FT
TYPICAL ROAD RIGHT OF WAY*	50 FT (83' FROM ROAD CENTERLINE)
INDIANA HIGHWAY 75 RIGHT OF WAY**	50 FT (85' FROM ROAD CENTERLINE)
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TRANSMISSION LINE****	60 FT

- \* BASED ON 66 FT RIGHT OF WAY WIDTH
- \*\*\* BASED ON 150FT TOTAL WIDTH
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- \*\*\*\*\* TRANSMISSION LINE AND COUNTY DRAIN LINE SETBACKS ARE APPLIED TO

PROPOSED ACCESS ROAD DRAINAGE CROSSINGS (CULVERT AND LOW WATER CROSSINGS) TO BE SIZED DURING FINAL CONSTRUCTION DESIGN PHASE.

KEY MAP:





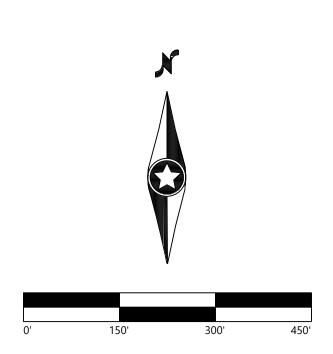
One South Wacker Drive Suite 1900 Chicago, IL 60606

# DATE COMMENT A 01/17/2020 CONCEPTUAL PV LAYOUT F 02/14/2020 DRAINAGE PLAN

I 03/13/2020 DRAINAGE PLAN

G 02/25/2020 DRAINAGE PLAN

H 03/02/2020 DRAINAGE PLAN



#### **Hardy Hills Solar Project**

Clinton County, Indiana

Site Plan

PRELIMINARY NOT FOR CONSTRUCTION

03/13/2020

C.302 SHEET:





— — — LOT LINES — EX. RIGHT OF WAY — — — — — EX. APPROX. EASEMENT LINES

——— POH ——— EX. APPROX. OVERHEAD POWER — \_\_ 900 — EX. 10' INDEX CONTOUR EX. 2' INTERVAL CONTOUR EX. WETLAND

FEMA FLOOD ZONE EX. STRUCTURE SETBACK —— — EX. PAVED ROAD ——— DT ——— EX. COUNTY DRAIN TILE

EX. WATER FEATURE — · · · — · · · NATIONAL HYDROGRAPHY DATASET (NHD) STREAM ——— ÞÞÞ ——— EX. COUNTY DRAINAGE DITCH

EX. CEMETERY

EX. HISTORIC STRUCTURE

EX. RESIDENCE

PROPOSED SOLAR ARRAY

----- PROPOSED MODULE SETBACK PROPOSED ACCESS ROAD PROPOSED SECURITY FENCE

PROPOSED CULVERT

PROPOSED ELECTRICAL EQUIPMENT PROPOSED PROJECT FACILITY PROPOSED LOW WATER CROSSING PROPOSED MEDIUM VOLTAGE COLLECTION

GRADING AVOIDANCE AREA

PROPOSED ACCESS ROAD DRAINAGE CROSSING

SETBACK TABLE		
NON-PARTICIPATING PROPERTY LINE	50 FT	
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HISTORIC STRUCTURE	200 FT	
TRANSMISSION LINE****	60 FT	

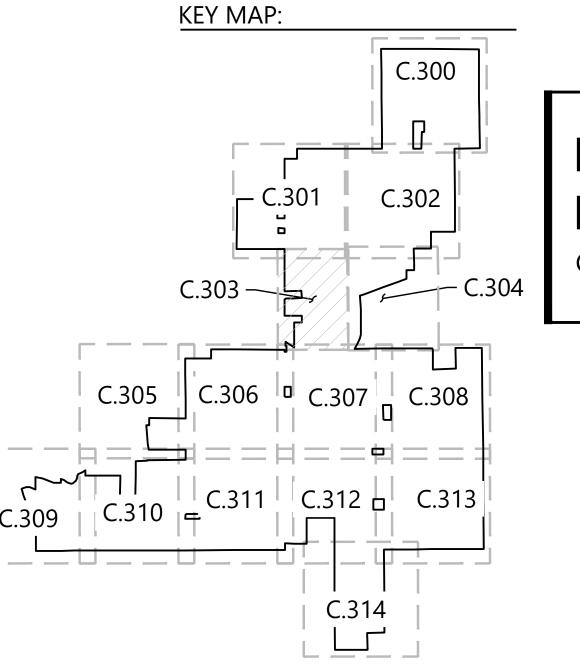
\* BASED ON 66 FT RIGHT OF WAY WIDTH

\*\* BASED ON 70 FT RIGHT OF WAY WIDTH

\*\*\* BASED ON 150FT TOTAL WIDTH
\*\*\*\* BASED ON 120 FT TOTAL EASEMENT WIDTH

PROPOSED ACCESS ROAD DRAINAGE CROSSINGS (CULVERT AND LOW WATER CROSSINGS) TO BE SIZED DURING FINAL CONSTRUCTION DESIGN PHASE.

\*\*\*\*\* TRANSMISSION LINE AND COUNTY DRAIN LINE SETBACKS ARE APPLIED TO THE PROJECT SECURITY FENCE





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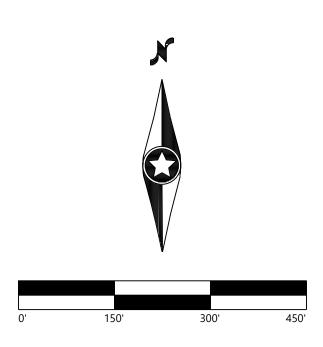
### Invenergy

One South Wacker Drive Suite 1900 Chicago, IL 60606

EVIS	IONS:	
	DATE	COMMENT
	01/17/2020	CONCEPTUAL PV LAYOUT
	02/14/2020	DRAINAGE PLAN
	02/25/2020	DRAINAGE PLAN

H 03/02/2020 DRAINAGE PLAN

I 03/13/2020 DRAINAGE PLAN



#### **Hardy Hills Solar Project**

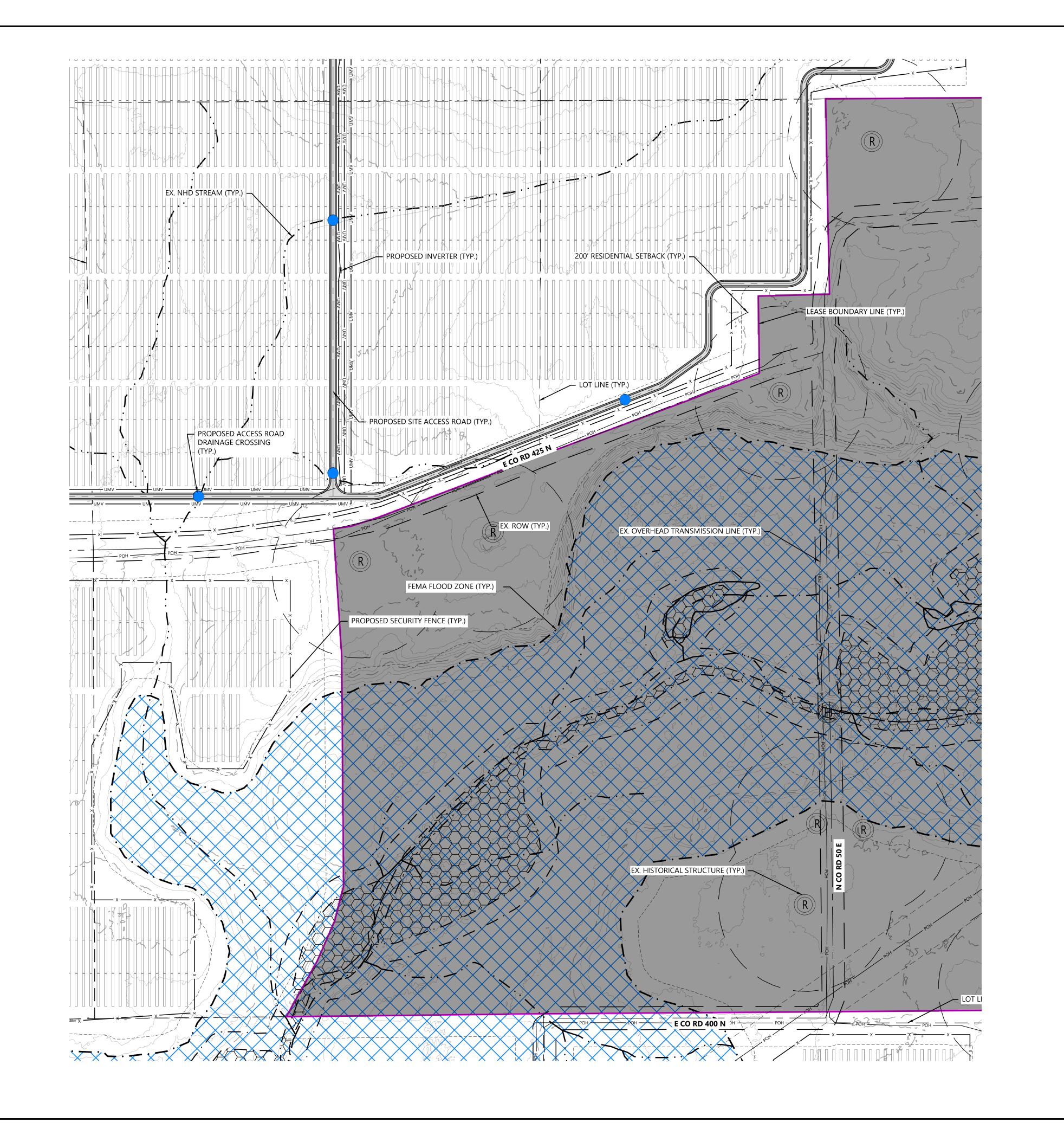
Clinton County, Indiana

Site Plan

PRELIMINARY NOT FOR CONSTRUCTION

03/13/2020 DATE:

C.303 SHEET:





— — — LOT LINES —— EX. RIGHT OF WAY — — — — — EX. APPROX. EASEMENT LINES

EX. APPROX. OVERHEAD POWER \_\_\_\_\_\_ 900 \_\_\_ EX. 10' INDEX CONTOUR EX. 2' INTERVAL CONTOUR

FEMA FLOOD ZONE EX. STRUCTURE SETBACK ——— — EX. PAVED ROAD

——— DT ——— EX. COUNTY DRAIN TILE — · · — · · • NATIONAL HYDROGRAPHY DATASET (NHD) STREAM EX. COUNTY DRAINAGE DITCH

EX. CEMETERY

EX. HISTORIC STRUCTURE

EX. RESIDENCE

PROPOSED SOLAR ARRAY ----- PROPOSED MODULE SETBACK PROPOSED ACCESS ROAD

PROPOSED ACCESS ROAD DRAINAGE CROSSING

— x — PROPOSED SECURITY FENCE PROPOSED ELECTRICAL EQUIPMENT PROPOSED PROJECT FACILITY PROPOSED LOW WATER CROSSING

— UMV — PROPOSED MEDIUM VOLTAGE COLLECTION PROPOSED CULVERT

GRADING AVOIDANCE AREA

SETBACK TABLE	
NON-PARTICIPATING PROPERTY LINE	50 FT
TYPICAL ROAD RIGHT OF WAY*	50 FT (83' FROM ROAD CENTERLINE)
INDIANA HIGHWAY 75 RIGHT OF WAY**	50 FT (85' FROM ROAD CENTERLINE)
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FEMA FLOODPLAIN	50 FT
CEMETERY	200 FT
HISTORIC STRUCTURE	200 FT
TRANSMISSION LINE****	60 FT

\* BASED ON 66 FT RIGHT OF WAY WIDTH

KEY MAP:

\*\*\* BASED ON 150FT TOTAL WIDTH
\*\*\*\* BASED ON 120 FT TOTAL EASEMENT WIDTH

\*\*\*\*\* TRANSMISSION LINE AND COUNTY DRAIN LINE SETBACKS ARE APPLIED TO THE PROJECT SECURITY FENCE

PROPOSED ACCESS ROAD DRAINAGE CROSSINGS (CULVERT AND LOW WATER CROSSINGS) TO BE SIZED DURING FINAL CONSTRUCTION DESIGN PHASE.

C.300

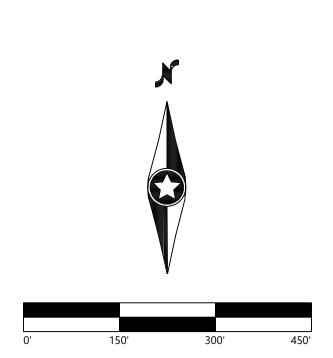
C.302

Westwood Professional Services, Inc.

### Invenergy

One South Wacker Drive Suite 1900 Chicago, IL 60606

REVIS	REVISIONS:		
#	DATE	COMMENT	
Α	01/17/2020	CONCEPTUAL PV LAYOUT	
F	02/14/2020	DRAINAGE PLAN	
G	02/25/2020	DRAINAGE PLAN	
Н	03/02/2020	DRAINAGE PLAN	
<u> </u>	03/13/2020	DRAINAGE PLAN	



#### **Hardy Hills Solar Project**

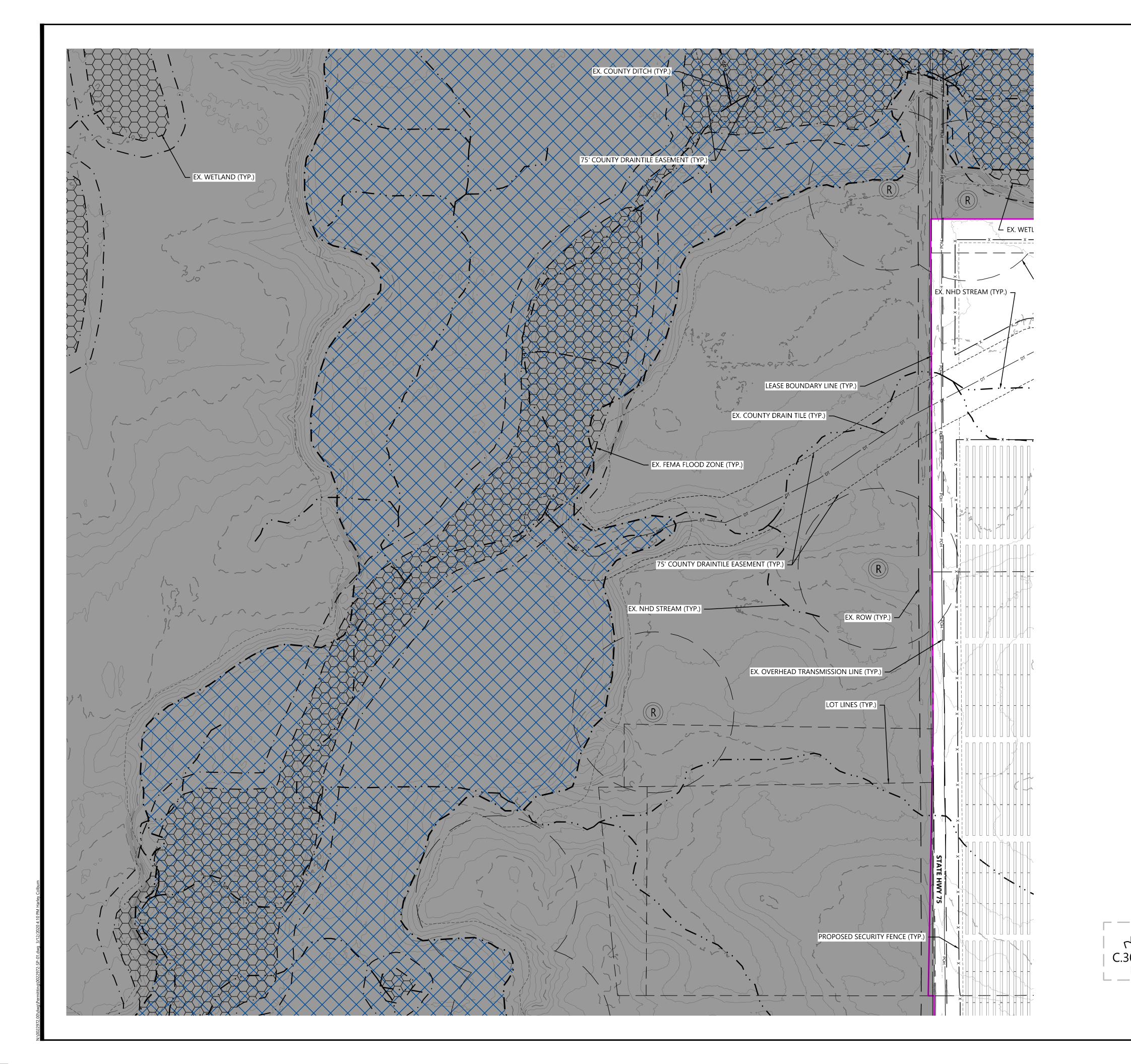
Clinton County, Indiana

Site Plan

PRELIMINARY NOT FOR CONSTRUCTION

03/13/2020

C.304 SHEET:



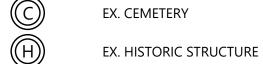


— — — LOT LINES — EX. RIGHT OF WAY ---- EX. APPROX. EASEMENT LINES

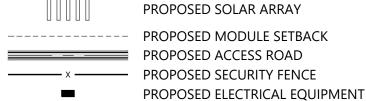
EX. APPROX. OVERHEAD POWER — \_\_\_\_ 900 — \_\_\_ EX. 10' INDEX CONTOUR EX. 2' INTERVAL CONTOUR

EX. STRUCTURE SETBACK ——— — EX. PAVED ROAD EX. COUNTY DRAIN TILE

EX. COUNTY DRAINAGE DITCH



EX. RESIDENCE



----- PROPOSED MODULE SETBACK PROPOSED ACCESS ROAD

PROPOSED PROJECT FACILITY PROPOSED LOW WATER CROSSING — UMV — PROPOSED MEDIUM VOLTAGE COLLECTION PROPOSED CULVERT



GRADING AVOIDANCE AREA

PROPOSED ACCESS ROAD DRAINAGE CROSSING

SETBACK TABLE	
NON-PARTICIPATING PROPERTY LINE	50 FT
TYPICAL ROAD RIGHT OF WAY*	50 FT (83' FROM ROAD CENTERLINE)
INDIANA HIGHWAY 75 RIGHT OF WAY**	50 FT (85' FROM ROAD CENTERLINE)
NON-PARTICIPATING RESIDENCE	200 FT
PARTICIPATING RESIDENCE	200 FT
COUNTY DRAIN TILE AND DITCHES***	75 FT EITHER SIDE
WETLAND	50 FT
FEMA FLOODPLAIN	50 FT
CEMETERY	200 FT
HISTORIC STRUCTURE	200 FT
TRANSMISSION LINE****	60 FT

\* BASED ON 66 FT RIGHT OF WAY WIDTH

KEY MAP:

C.303 -

\*\*\* BASED ON 150FT TOTAL WIDTH
\*\*\*\* BASED ON 120 FT TOTAL EASEMENT WIDTH

\*\*\*\*\* TRANSMISSION LINE AND COUNTY DRAIN LINE SETBACKS ARE APPLIED TO THE PROJECT SECURITY FENCE

PROPOSED ACCESS ROAD DRAINAGE CROSSINGS (CULVERT AND LOW WATER CROSSINGS) TO BE SIZED DURING FINAL CONSTRUCTION DESIGN PHASE.

C.300

C.302

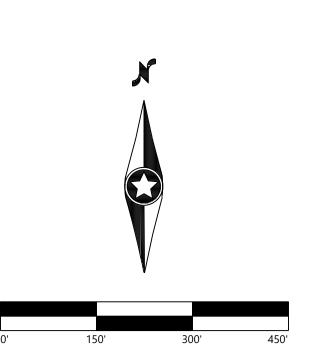


Westwood Professional Services, Inc.

## Invenergy

One South Wacker Drive Suite 1900 Chicago, IL 60606

REVI	REVISIONS:		
#	DATE	COMMENT	
Α	01/17/2020	CONCEPTUAL PV LAYOUT	
F	02/14/2020	DRAINAGE PLAN	
G	02/25/2020	DRAINAGE PLAN	
Н	03/02/2020	DRAINAGE PLAN	
	03/13/2020	DRAINAGE PLAN	



#### **Hardy Hills Solar Project**

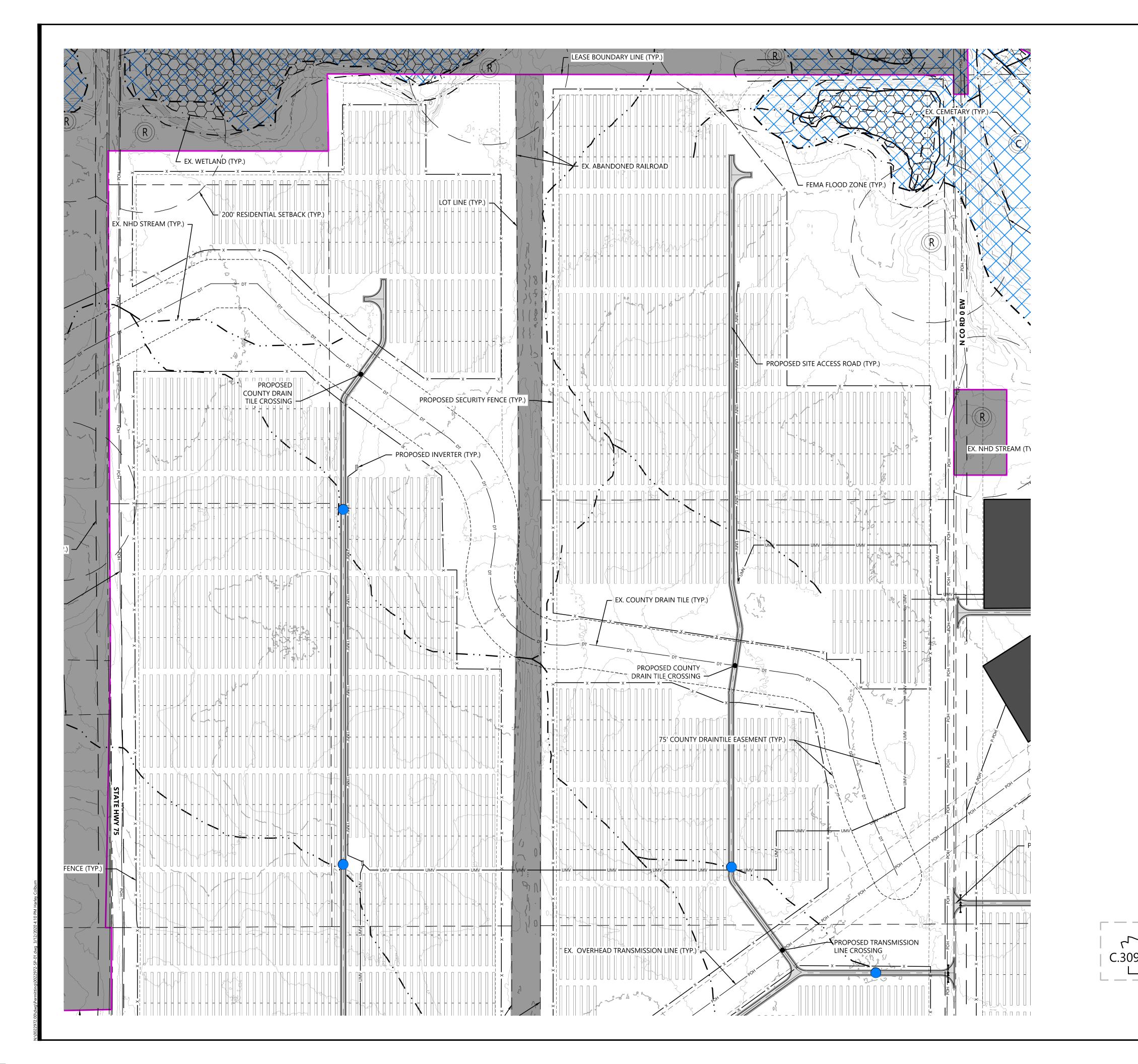
Clinton County, Indiana

Site Plan

PRELIMINARY NOT FOR CONSTRUCTION

03/13/2020

C.305 SHEET:





UNLEASED PROPERTY AREA LEASE BOUNDARY LINE — — — LOT LINES

— EX. RIGHT OF WAY ---- EX. APPROX. EASEMENT LINES ——— POH ——— EX. APPROX. OVERHEAD POWER — EX. 10' INDEX CONTOUR

EX. 2' INTERVAL CONTOUR

FEMA FLOOD ZONE EX. STRUCTURE SETBACK ——— — EX. PAVED ROAD EX. COUNTY DRAIN TILE

— · · — · · — NATIONAL HYDROGRAPHY DATASET (NHD) STREAM EX. COUNTY DRAINAGE DITCH

EX. CEMETERY

EX. HISTORIC STRUCTURE

EX. RESIDENCE

----- PROPOSED MODULE SETBACK

PROPOSED SOLAR ARRAY

PROPOSED ACCESS ROAD

PROPOSED ELECTRICAL EQUIPMENT PROPOSED PROJECT FACILITY — UMV — PROPOSED MEDIUM VOLTAGE COLLECTION

GRADING AVOIDANCE AREA

PROPOSED ACCESS ROAD DRAINAGE CROSSING

SETBACK TABLE	
NON-PARTICIPATING PROPERTY LINE	50 FT
TYPICAL ROAD RIGHT OF WAY*	50 FT (83' FROM ROAD CENTERLINE)
INDIANA HIGHWAY 75 RIGHT OF WAY**	50 FT (85' FROM ROAD CENTERLINE)
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CEMETERY	200 FT
HISTORIC STRUCTURE	200 FT
TRANSMISSION LINE****	60 FT

\* BASED ON 66 FT RIGHT OF WAY WIDTH

\*\*\* BASED ON 150FT TOTAL WIDTH
\*\*\*\* BASED ON 120 FT TOTAL EASEMENT WIDTH

\*\*\*\*\* TRANSMISSION LINE AND COUNTY DRAIN LINE SETBACKS ARE APPLIED TO THE PROJECT SECURITY FENCE

KEY MAP:

C.303 -

PROPOSED ACCESS ROAD DRAINAGE CROSSINGS (CULVERT AND LOW WATER CROSSINGS) TO BE SIZED DURING FINAL CONSTRUCTION DESIGN PHASE.

C.300

C.302



Westwood Professional Services, Inc.

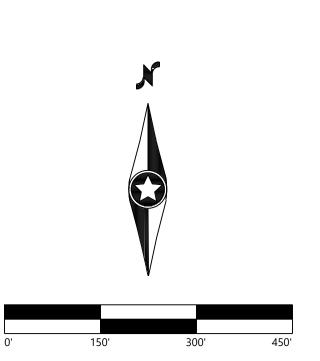
#### Invenergy

One South Wacker Drive Suite 1900 Chicago, IL 60606

/IS	IONS:	
	DATE	COMMENT
	01/17/2020	CONCEPTUAL PV LAYOUT
	02/14/2020	DRAINAGE PLAN
	02/25/2020	DRAINAGE PLAN

H 03/02/2020 DRAINAGE PLAN

I 03/13/2020 DRAINAGE PLAN



#### **Hardy Hills Solar Project**

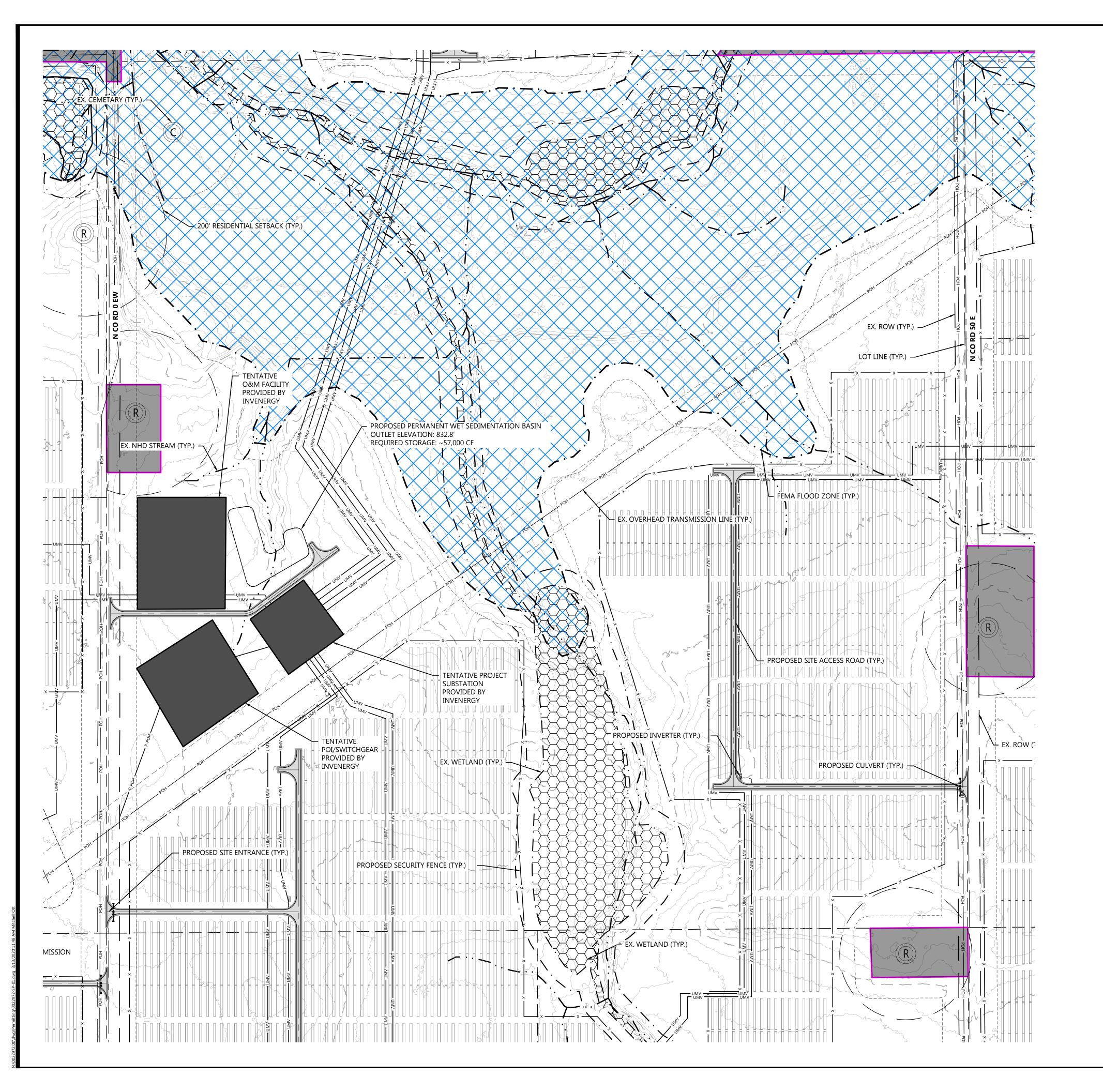
Clinton County, Indiana

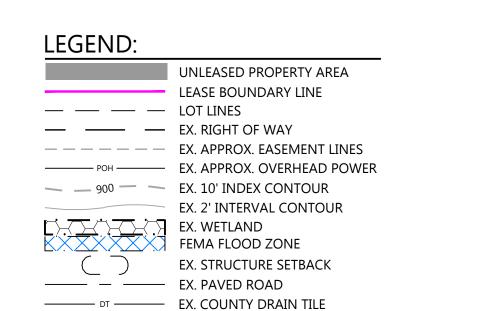
Site Plan

PRELIMINARY NOT FOR CONSTRUCTION

C.306 SHEET:

03/13/2020





EX. COUNTY DRAINAGE DITCH

EX. CEMETERY

EX. HISTORIC STRUCTURE

EX. RESIDENCE

— · · — · · — NATIONAL HYDROGRAPHY DATASET (NHD) STREAM

PROPOSED SOLAR ARRAY

PROPOSED MODULE SETBACK
PROPOSED ACCESS ROAD
PROPOSED SECURITY FENCE
PROPOSED ELECTRICAL EQUIPMENT
PROPOSED PROJECT FACILITY

PROPOSED LOW WATER CROSSING
PROPOSED MEDIUM VOLTAGE COLLECTION
PROPOSED CULVERT

GRADING AVOIDANCE AREA

PROPOSED ACCESS ROAD DRAINAGE CROSSING

SETBACK TABLE	
NON-PARTICIPATING PROPERTY LINE	50 FT
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CEMETERY	200 FT
HISTORIC STRUCTURE	200 FT
TRANSMISSION LINE****	60 FT

\* BASED ON 66 FT RIGHT OF WAY WIDTH

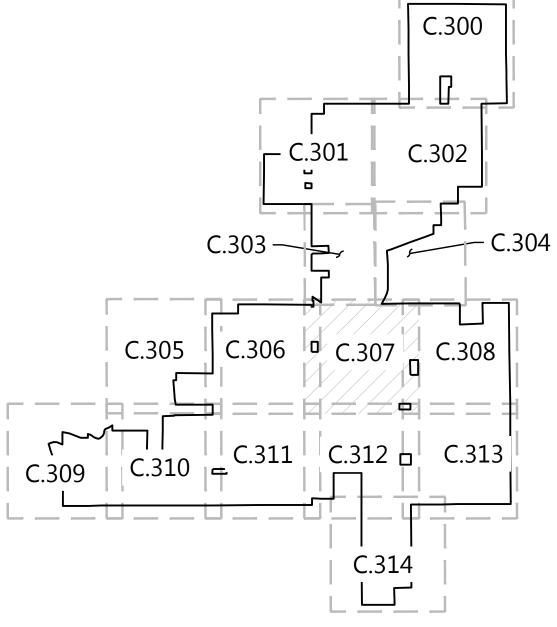
\*\* BASED ON 70 FT RIGHT OF WAY WIDTH

\*\*\* BASED ON 150FT TOTAL WIDTH
\*\*\*\* BASED ON 120 FT TOTAL EASEMENT WIDTH

\*\*\*\*\* TRANSMISSION LINE AND COUNTY DRAIN LINE SETBACKS ARE APPLIED TO THE PROJECT SECURITY FENCE

NOTE:
PROPOSED ACCESS ROAD DRAINAGE CROSSINGS (CULVERT AND LOW WATER CROSSINGS) TO BE SIZED DURING FINAL CONSTRUCTION DESIGN PHASE.

#### KEY MAP:





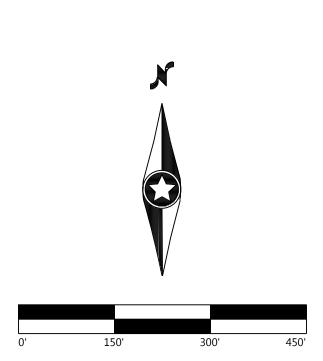
Westwood Professional Services, Inc.

PREPARED FOR:

### Invenergy

One South Wacker Drive Suite 1900 Chicago, IL 60606

REVISIONS:		
#	DATE	COMMENT
Α	01/17/2020	CONCEPTUAL PV LAYOUT
F	02/14/2020	DRAINAGE PLAN
G	02/25/2020	DRAINAGE PLAN
Н	03/02/2020	DRAINAGE PLAN
I	03/13/2020	DRAINAGE PLAN



# Hardy Hills Solar Project

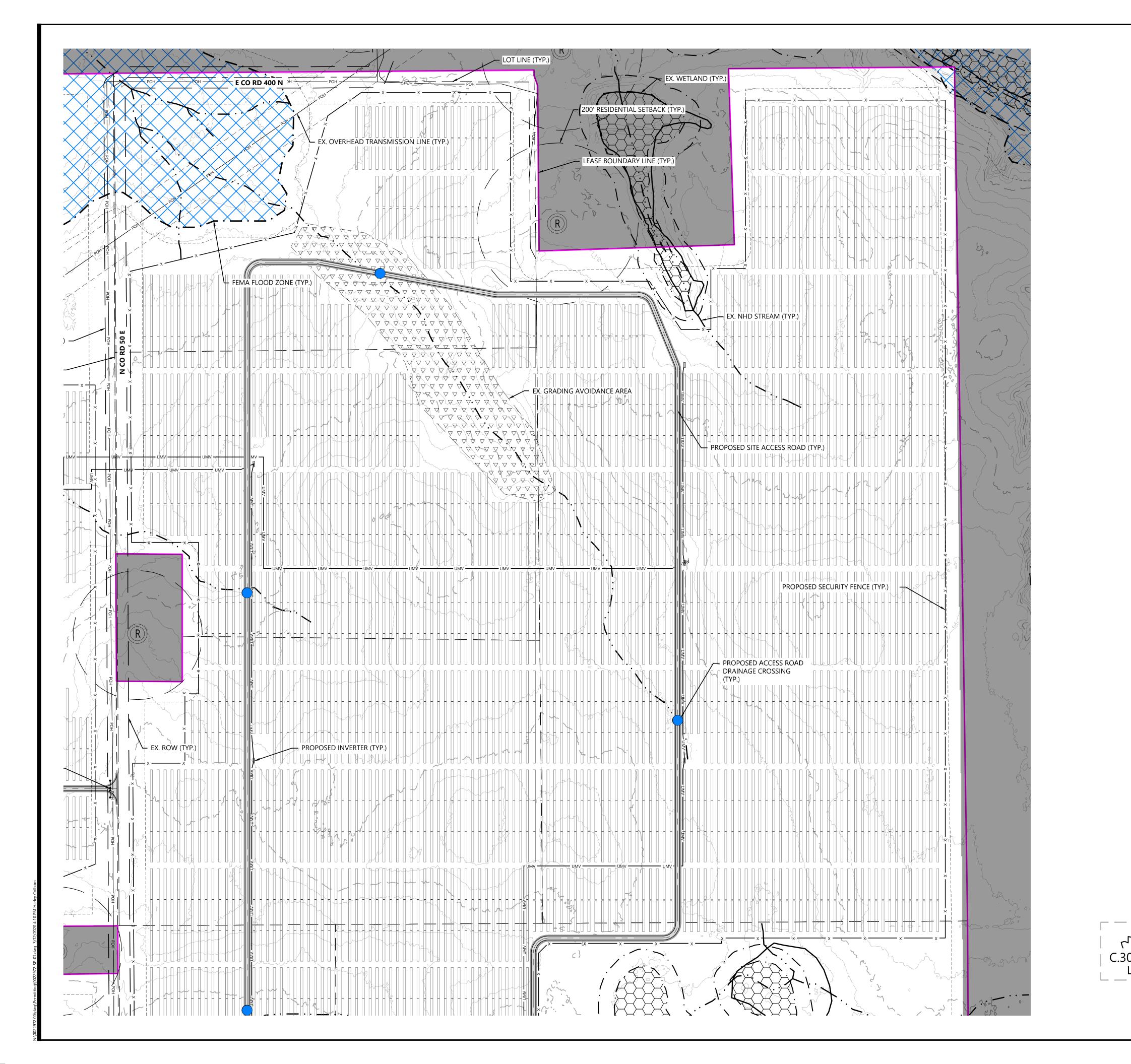
Clinton County, Indiana

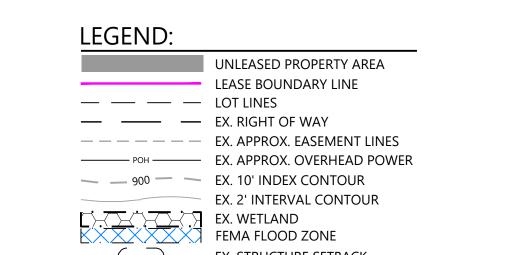
Site Plan

PRELIMINARY NOT FOR CONSTRUCTION

DATE: 03/13/2020

SHEET: C.307





EX. STRUCTURE SETBACK ——— — EX. PAVED ROAD EX. COUNTY DRAIN TILE

— · · — · · — NATIONAL HYDROGRAPHY DATASET (NHD) STREAM EX. COUNTY DRAINAGE DITCH

EX. CEMETERY

EX. HISTORIC STRUCTURE

PROPOSED SOLAR ARRAY ----- PROPOSED MODULE SETBACK

EX. RESIDENCE

PROPOSED ACCESS ROAD — x — PROPOSED SECURITY FENCE PROPOSED ELECTRICAL EQUIPMENT PROPOSED PROJECT FACILITY PROPOSED LOW WATER CROSSING

--- UMV ------ PROPOSED MEDIUM VOLTAGE COLLECTION

GRADING AVOIDANCE AREA

PROPOSED ACCESS ROAD DRAINAGE CROSSING

SETBACK TABLE	
NON-PARTICIPATING PROPERTY LINE	50 FT
TYPICAL ROAD RIGHT OF WAY*	50 FT (83' FROM ROAD CENTERLINE)
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WETLAND	50 FT
FEMA FLOODPLAIN	50 FT
CEMETERY	200 FT
HISTORIC STRUCTURE	200 FT
TRANSMISSION LINE****	60 FT

\* BASED ON 66 FT RIGHT OF WAY WIDTH

KEY MAP:

\*\*\* BASED ON 150FT TOTAL WIDTH
\*\*\*\* BASED ON 120 FT TOTAL EASEMENT WIDTH

\*\*\*\*\* TRANSMISSION LINE AND COUNTY DRAIN LINE SETBACKS ARE APPLIED TO THE PROJECT SECURITY FENCE

C.300

C.302

PROPOSED ACCESS ROAD DRAINAGE CROSSINGS (CULVERT AND LOW WATER CROSSINGS) TO BE SIZED DURING FINAL CONSTRUCTION DESIGN PHASE.

One South Wacker Drive Suite 1900

Chicago, IL 60606

# DATE COMMENT

A 01/17/2020 CONCEPTUAL PV LAYOUT

F 02/14/2020 DRAINAGE PLAN

G 02/25/2020 DRAINAGE PLAN

H 03/02/2020 DRAINAGE PLAN I 03/13/2020 DRAINAGE PLAN

Westwood Professional Services, Inc.

**Hardy Hills Solar Project** 

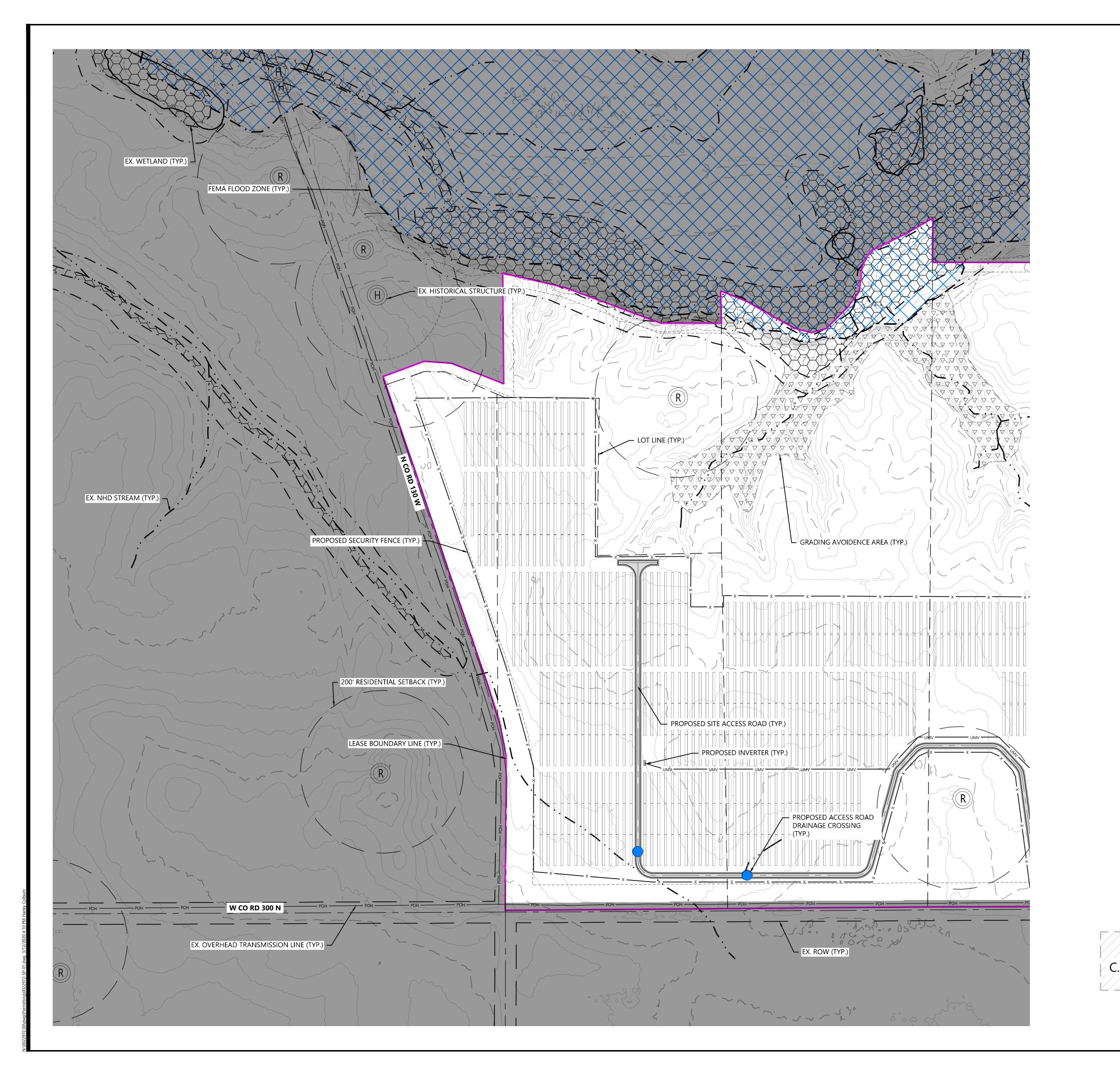
Clinton County, Indiana

Site Plan

PRELIMINARY NOT FOR CONSTRUCTION

03/13/2020

C.308 SHEET:





— — — LOT LINES —— EX. RIGHT OF WAY ---- EX. APPROX. EASEMENT LINES

EX. APPROX. OVERHEAD POWER — EX. 10' INDEX CONTOUR EX. 2' INTERVAL CONTOUR

EX. STRUCTURE SETBACK ——— — EX. PAVED ROAD EX. COUNTY DRAIN TILE

— · · — · · — NATIONAL HYDROGRAPHY DATASET (NHD) STREAM

EX. CEMETERY

EX. COUNTY DRAINAGE DITCH

EX. RESIDENCE

EX. HISTORIC STRUCTURE

PROPOSED SOLAR ARRAY PROPOSED ACCESS ROAD

----- PROPOSED MODULE SETBACK

— x — PROPOSED SECURITY FENCE PROPOSED MEDIUM VOLTAGE COLLECTION

PROPOSED ELECTRICAL EQUIPMENT PROPOSED PROJECT FACILITY PROPOSED LOW WATER CROSSING

GRADING AVOIDANCE AREA

PROPOSED ACCESS ROAD DRAINAGE CROSSING

SETBACK TABLE	
NON-PARTICIPATING PROPERTY LINE	50 FT
TYPICAL ROAD RIGHT OF WAY*	50 FT (83' FROM ROAD CENTERLINE)
INDIANA HIGHWAY 75 RIGHT OF WAY**	50 FT (85' FROM ROAD CENTERLINE)
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WETLAND	50 FT
FEMA FLOODPLAIN	50 FT
CEMETERY	200 FT
HISTORIC STRUCTURE	200 FT
TRANSMISSION LINE****	60 FT

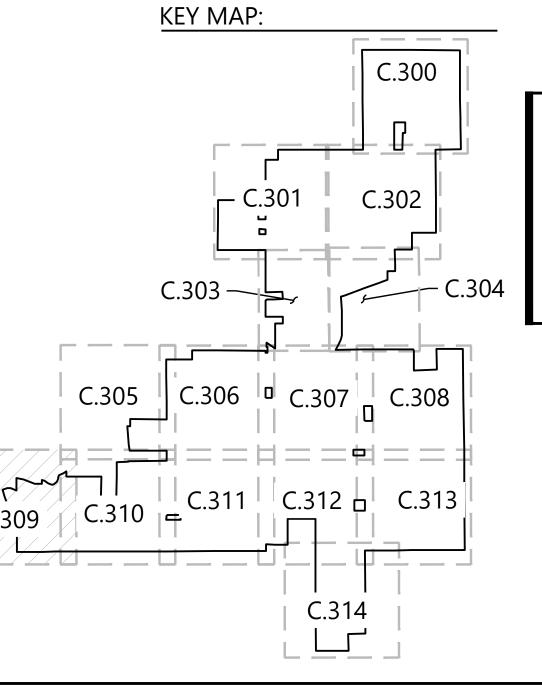
\* BASED ON 66 FT RIGHT OF WAY WIDTH

\*\* BASED ON 70 FT RIGHT OF WAY WIDTH

\*\*\* BASED ON 150FT TOTAL WIDTH
\*\*\*\* BASED ON 120 FT TOTAL EASEMENT WIDTH

\*\*\*\*\* TRANSMISSION LINE AND COUNTY DRAIN LINE SETBACKS ARE APPLIED TO THE PROJECT SECURITY FENCE

PROPOSED ACCESS ROAD DRAINAGE CROSSINGS (CULVERT AND LOW WATER CROSSINGS) TO BE SIZED DURING FINAL CONSTRUCTION DESIGN PHASE.



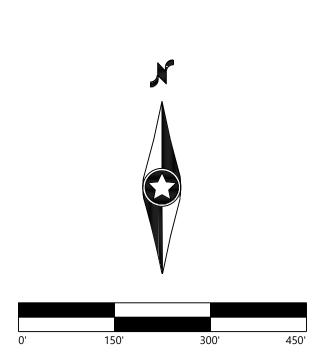
Westwood Professional Services, Inc.

### Invenergy

One South Wacker Drive Suite 1900 Chicago, IL 60606

REVIS	IONS:	
#	DATE	COMMENT
A	01/17/2020	CONCEPTUAL PV LAYOUT
F	02/14/2020	DRAINAGE PLAN
G	02/25/2020	DRAINAGE PLAN

H 03/02/2020 DRAINAGE PLAN I 03/13/2020 DRAINAGE PLAN



#### **Hardy Hills Solar Project**

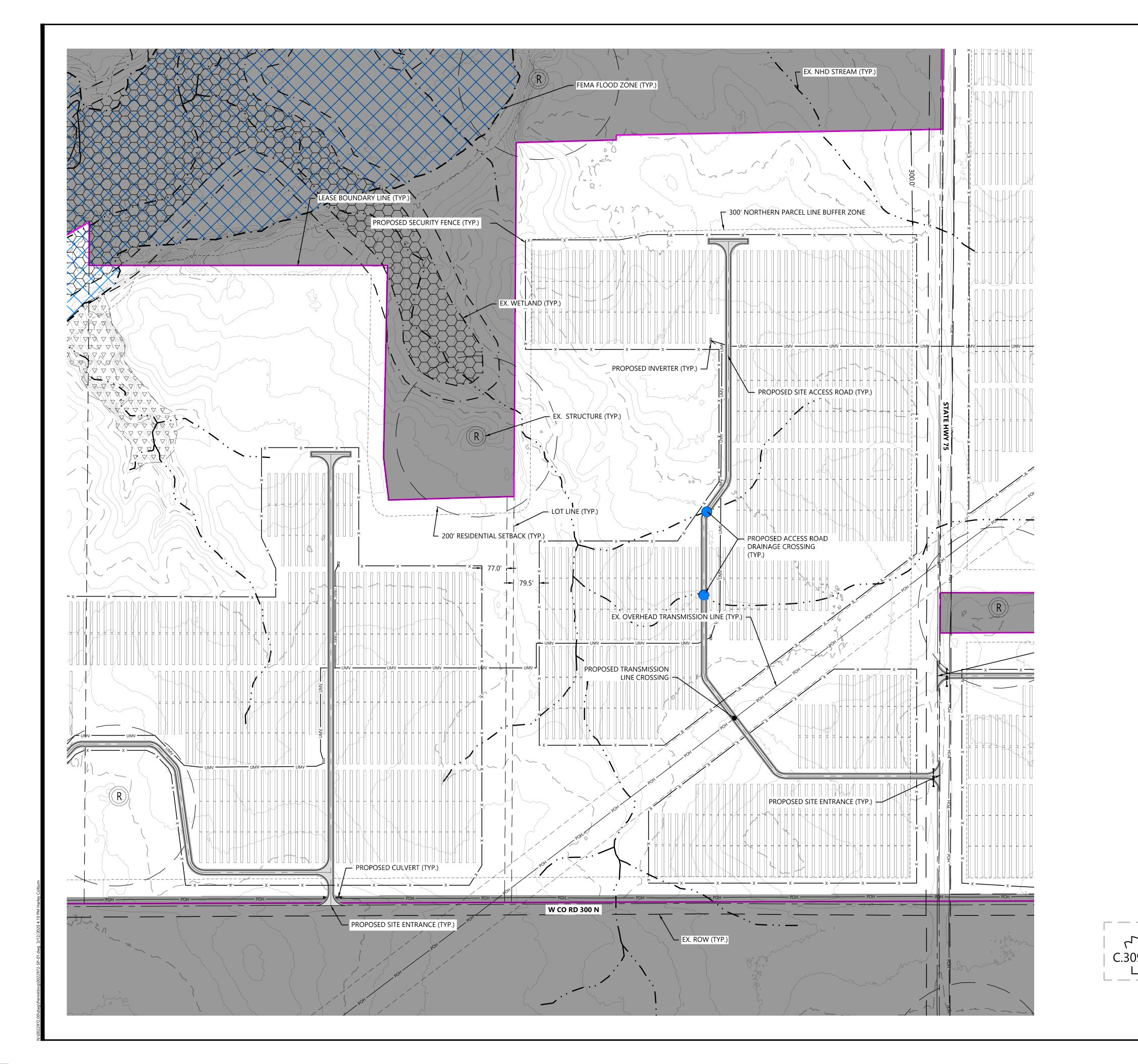
Clinton County, Indiana

Site Plan

PRELIMINARY NOT FOR CONSTRUCTION

03/13/2020

C.309 SHEET:



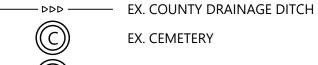


— — — LOT LINES — EX. RIGHT OF WAY ---- EX. APPROX. EASEMENT LINES ——— POH ———— EX. APPROX. OVERHEAD POWER

— EX. 10' INDEX CONTOUR

EX. 2' INTERVAL CONTOUR EX. STRUCTURE SETBACK —— — EX. PAVED ROAD

EX. COUNTY DRAIN TILE --- · · - NATIONAL HYDROGRAPHY DATASET (NHD) STREAM



PROPOSED SOLAR ARRAY

EX. HISTORIC STRUCTURE EX. RESIDENCE

----- PROPOSED MODULE SETBACK PROPOSED ACCESS ROAD — x — PROPOSED SECURITY FENCE

PROPOSED ELECTRICAL EQUIPMENT PROPOSED PROJECT FACILITY PROPOSED LOW WATER CROSSING PROPOSED MEDIUM VOLTAGE COLLECTION

GRADING AVOIDANCE AREA

PROPOSED ACCESS ROAD DRAINAGE CROSSING

SETBACK TABLE		
NON-PARTICIPATING PROPERTY LINE	50 FT	
TYPICAL ROAD RIGHT OF WAY*	50 FT (83' FROM ROAD CENTERLINE)	
INDIANA HIGHWAY 75 RIGHT OF WAY**	50 FT (85' FROM ROAD CENTERLINE)	
NON-PARTICIPATING RESIDENCE	200 FT	
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COUNTY DRAIN TILE AND DITCHES***	75 FT EITHER SIDE	
WETLAND	50 FT	
FEMA FLOODPLAIN	50 FT	
CEMETERY	200 FT	
HISTORIC STRUCTURE	200 FT	
TRANSMISSION LINE****	60 FT	

- \* BASED ON 66 FT RIGHT OF WAY WIDTH

KEY MAP:

C.303 -

- \*\* BASED ON 70 FT RIGHT OF WAY WIDTH

  \*\*\* BASED ON 150FT TOTAL WIDTH

  \*\*\* BASED ON 120 FT TOTAL EASEMENT WIDTH

  \*\*\*\* TRANSMISSION LINE AND COUNTY DRAIN LINE SETBACKS ARE APPLIED TO

  THE PROJECT SECURITY FENCE

C.300

C.302

NOTE:
PROPOSED ACCESS ROAD DRAINAGE CROSSINGS (CULVERT AND LOW WATER CROSSINGS) TO BE SIZED DURING FINAL CONSTRUCTION DESIGN PHASE.

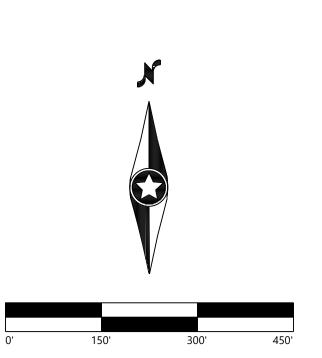


## Invenergy

One South Wacker Drive Suite 1900 Chicago, IL 60606

REVISIONS:				
#	DATE	COMMENT		
Α	01/17/2020	CONCEPTUAL PV LAYOUT		
F	02/14/2020	DRAINAGE PLAN		
G	02/25/2020	DRAINAGE PLAN		
Н	03/02/2020	DRAINAGE PLAN		

I 03/13/2020 DRAINAGE PLAN



#### **Hardy Hills Solar Project**

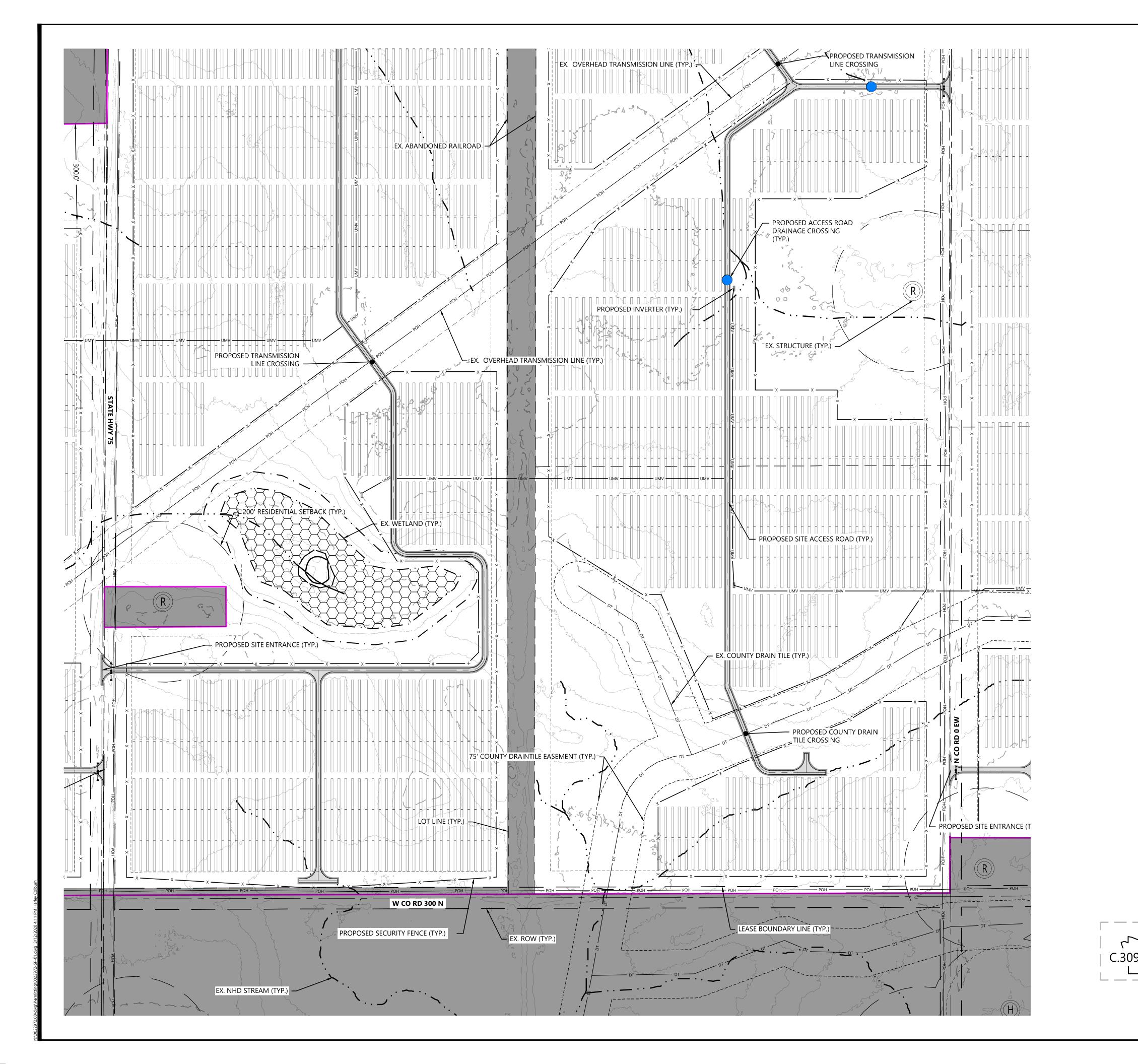
Clinton County, Indiana

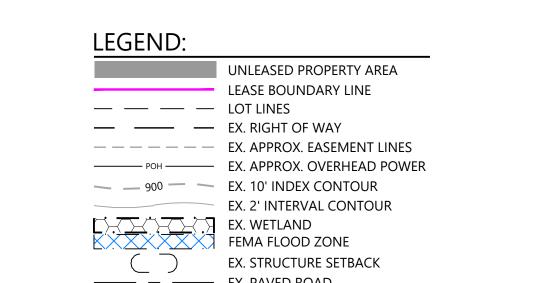
Site Plan

PRELIMINARY NOT FOR CONSTRUCTION

C.310 SHEET:

03/13/2020





——— — EX. PAVED ROAD ——— DT ———— EX. COUNTY DRAIN TILE

EX. COUNTY DRAINAGE DITCH

EX. CEMETERY EX. HISTORIC STRUCTURE

EX. RESIDENCE

----- PROPOSED MODULE SETBACK PROPOSED ACCESS ROAD — × — PROPOSED SECURITY FENCE

PROPOSED SOLAR ARRAY

PROPOSED ELECTRICAL EQUIPMENT PROPOSED PROJECT FACILITY PROPOSED LOW WATER CROSSING — UMV — PROPOSED MEDIUM VOLTAGE COLLECTION

GRADING AVOIDANCE AREA

SETBACK TABLE 50 FT NON-PARTICIPATING PROPERTY LINE 50 FT TYPICAL ROAD RIGHT OF WAY\* (83' FROM ROAD CENTERLINE) (85' FROM ROAD CENTERLINE) 200 FT 200 FT

PROPOSED ACCESS ROAD DRAINAGE CROSSING

INDIANA HIGHWAY 75 RIGHT OF WAY\* NON-PARTICIPATING RESIDENCE PARTICIPATING RESIDENCE 75 FT EITHER SIDE COUNTY DRAIN TILE AND DITCHES\*\*\* 50 FT WETLAND 50 FT FEMA FLOODPLAIN 200 FT CEMETERY 200 FT HISTORIC STRUCTURE TRANSMISSION LINE\*\*\*\*

\* BASED ON 66 FT RIGHT OF WAY WIDTH

\*\* BASED ON 70 FT RIGHT OF WAY WIDTH

C.303 -

THE PROJECT SECURITY FENCE

PROPOSED ACCESS ROAD DRAINAGE CROSSINGS (CULVERT AND LOW WATER

CROSSINGS) TO BE SIZED DURING FINAL CONSTRUCTION DESIGN PHASE.

#### 60 FT \*\*\* BASED ON 150FT TOTAL WIDTH \*\*\*\* BASED ON 120 FT TOTAL EASEMENT WIDTH \*\*\*\*\* TRANSMISSION LINE AND COUNTY DRAIN LINE SETBACKS ARE APPLIED TO KEY MAP: C.300 **Hardy Hills Solar** C.302

# **Project**

Westwood Professional Services, Inc.

One South Wacker Drive Suite 1900

Chicago, IL 60606

A 01/17/2020 CONCEPTUAL PV LAYOUT

F 02/14/2020 DRAINAGE PLAN

G 02/25/2020 DRAINAGE PLAN

H 03/02/2020 DRAINAGE PLAN 03/13/2020 DRAINAGE PLAN

# DATE

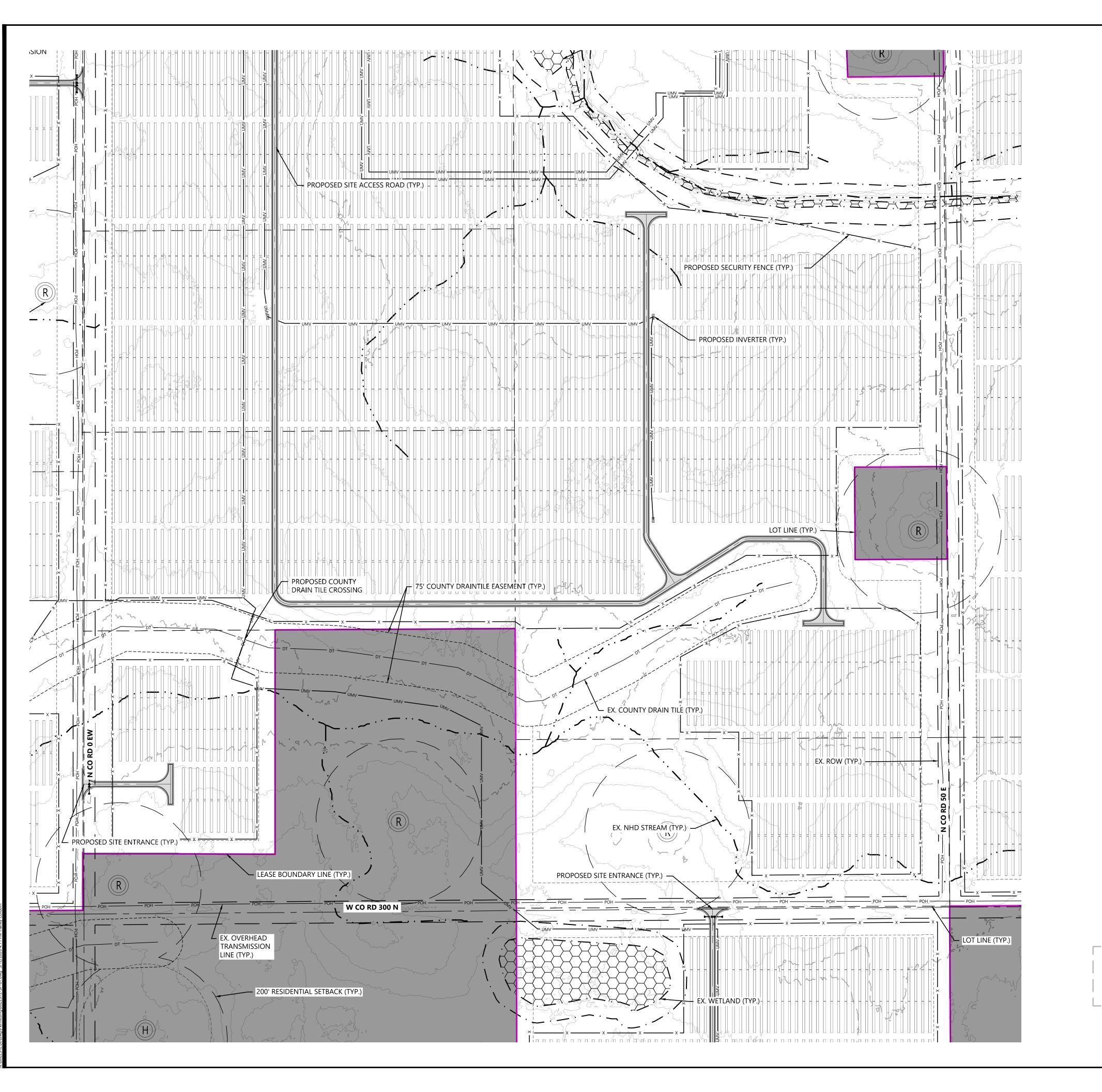
Clinton County, Indiana

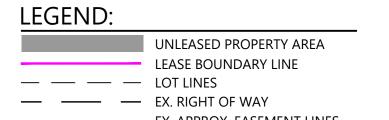
Site Plan

PRELIMINARY NOT FOR CONSTRUCTION

03/13/2020

C.311 SHEET:





— — EX. APPROX. EASEMENT LINES EX. 10' INDEX CONTOUR EX. 2' INTERVAL CONTOUR

FEMA FLOOD ZONE EX. STRUCTURE SETBACK —— — EX. PAVED ROAD EX. COUNTY DRAIN TILE

--- · · - NATIONAL HYDROGRAPHY DATASET (NHD) STREAM EX. COUNTY DRAINAGE DITCH

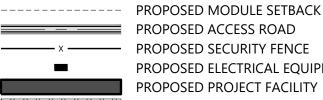


EX. CEMETERY

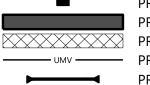
EX. HISTORIC STRUCTURE EX. RESIDENCE



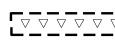
PROPOSED SOLAR ARRAY



PROPOSED ACCESS ROAD — x — PROPOSED SECURITY FENCE PROPOSED ELECTRICAL EQUIPMENT



PROPOSED PROJECT FACILITY PROPOSED LOW WATER CROSSING — UMV — PROPOSED MEDIUM VOLTAGE COLLECTION PROPOSED CULVERT



GRADING AVOIDANCE AREA PROPOSED ACCESS ROAD DRAINAGE CROSSING

SETBACK TABLE		
NON-PARTICIPATING PROPERTY LINE	50 FT	
TYPICAL ROAD RIGHT OF WAY*	50 FT (83' FROM ROAD CENTERLINE)	
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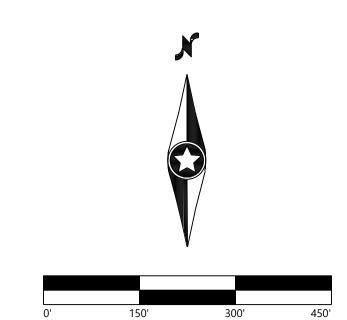
\* BASED ON 66 FT RIGHT OF WAY WIDTH

\*\*\* BASED ON 150FT TOTAL WIDTH

\*\*\*\* BASED ON 120 FT TOTAL EASEMENT WIDTH

\*\*\*\*\* TRANSMISSION LINE AND COUNTY DRAIN LINE SETBACKS ARE APPLIED TO

PROPOSED ACCESS ROAD DRAINAGE CROSSINGS (CULVERT AND LOW WATER CROSSINGS) TO BE SIZED DURING FINAL CONSTRUCTION DESIGN PHASE.



One South Wacker Drive Suite 1900

Chicago, IL 60606

# DATE COMMENT

F 02/14/2020 DRAINAGE PLAN

G 02/25/2020 DRAINAGE PLAN

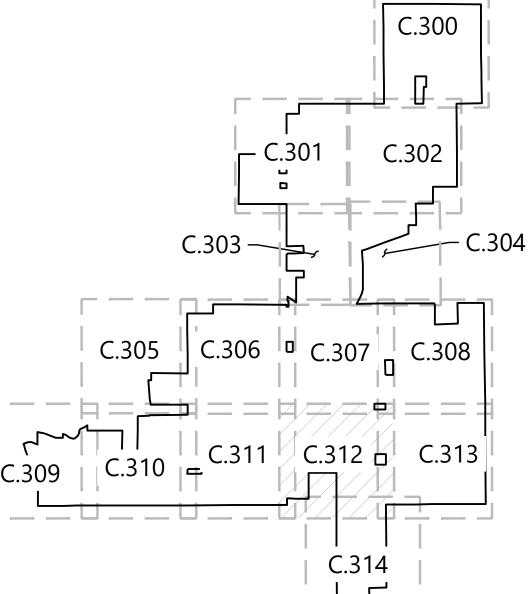
H 03/02/2020 DRAINAGE PLAN

I 03/13/2020 DRAINAGE PLAN

A 01/17/2020 CONCEPTUAL PV LAYOUT

Westwood Professional Services, Inc.

#### KEY MAP:



#### **Hardy Hills Solar Project**

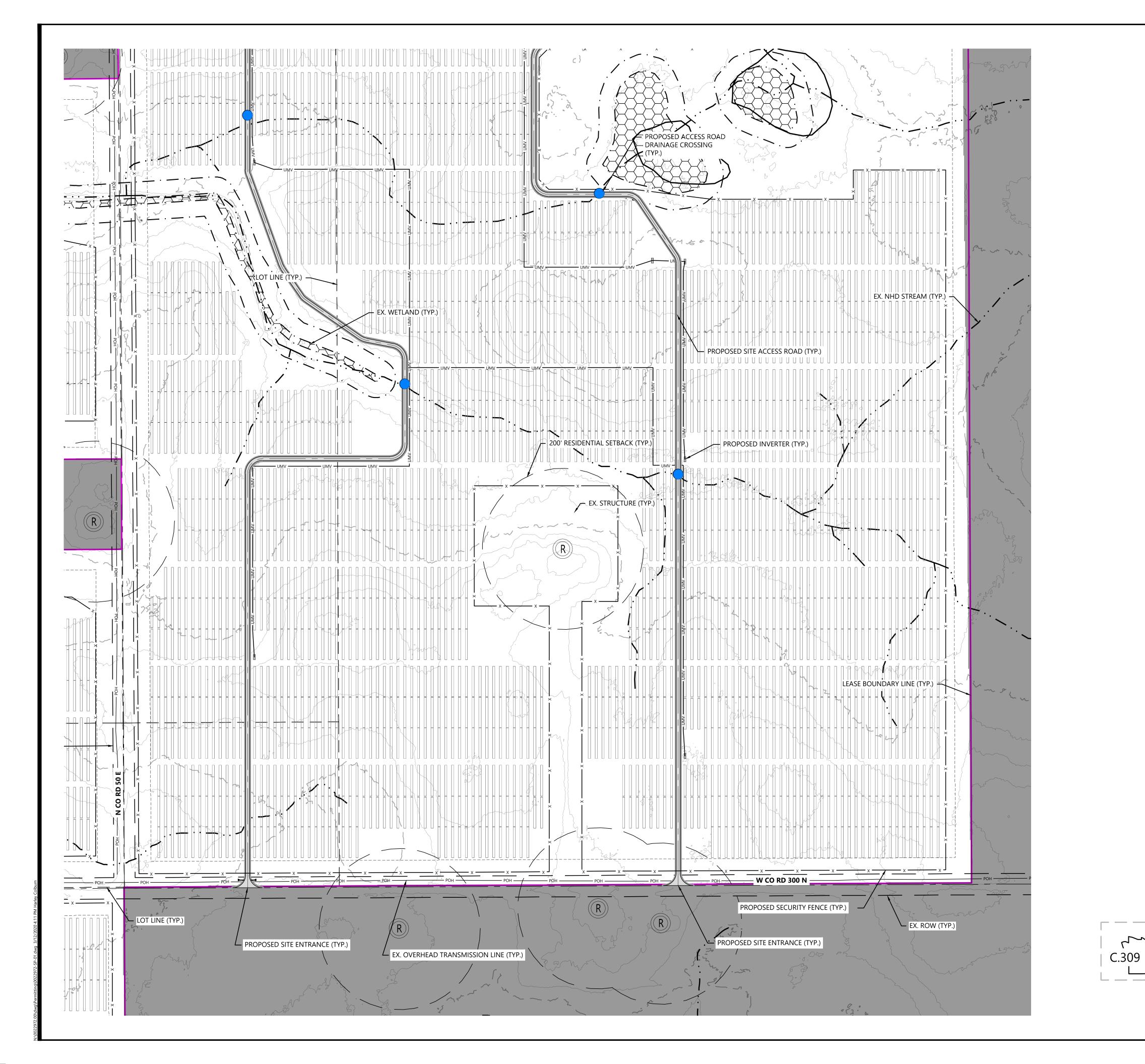
Clinton County, Indiana

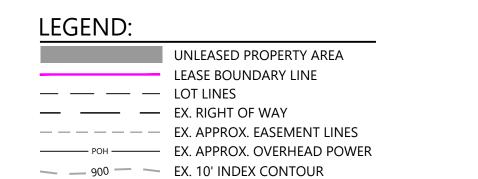
Site Plan

PRELIMINARY NOT FOR CONSTRUCTION

03/13/2020

C.312 SHEET:





EX. 2' INTERVAL CONTOUR —— — EX. PAVED ROAD

EX. STRUCTURE SETBACK EX. COUNTY DRAIN TILE

--- · · - NATIONAL HYDROGRAPHY DATASET (NHD) STREAM EX. COUNTY DRAINAGE DITCH

EX. CEMETERY

EX. HISTORIC STRUCTURE

EX. RESIDENCE

----- PROPOSED MODULE SETBACK

PROPOSED SOLAR ARRAY

PROPOSED LOW WATER CROSSING

PROPOSED ACCESS ROAD — x — PROPOSED SECURITY FENCE PROPOSED ELECTRICAL EQUIPMENT PROPOSED PROJECT FACILITY

── UMV ── PROPOSED MEDIUM VOLTAGE COLLECTION PROPOSED CULVERT

GRADING AVOIDANCE AREA

PROPOSED ACCESS ROAD DRAINAGE CROSSING

SETBACK TABLE		
NON-PARTICIPATING PROPERTY LINE	50 FT	
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TRANSMISSION LINE****	60 FT	

\* BASED ON 66 FT RIGHT OF WAY WIDTH

\*\* BASED ON 70 FT RIGHT OF WAY WIDTH

\*\*\* BASED ON 150FT TOTAL WIDTH
\*\*\*\* BASED ON 120 FT TOTAL EASEMENT WIDTH

\*\*\*\*\* TRANSMISSION LINE AND COUNTY DRAIN LINE SETBACKS ARE APPLIED TO THE PROJECT SECURITY FENCE

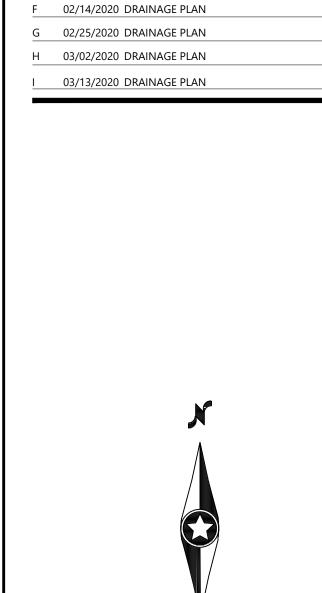
C.300

C.302

PROPOSED ACCESS ROAD DRAINAGE CROSSINGS (CULVERT AND LOW WATER CROSSINGS) TO BE SIZED DURING FINAL CONSTRUCTION DESIGN PHASE.

KEY MAP:

C.303 -



Invenergy

One South Wacker Drive Suite 1900

Chicago, IL 60606

# DATE COMMENT

A 01/17/2020 CONCEPTUAL PV LAYOUT

Westwood Professional Services, Inc.

#### **Hardy Hills Solar Project**

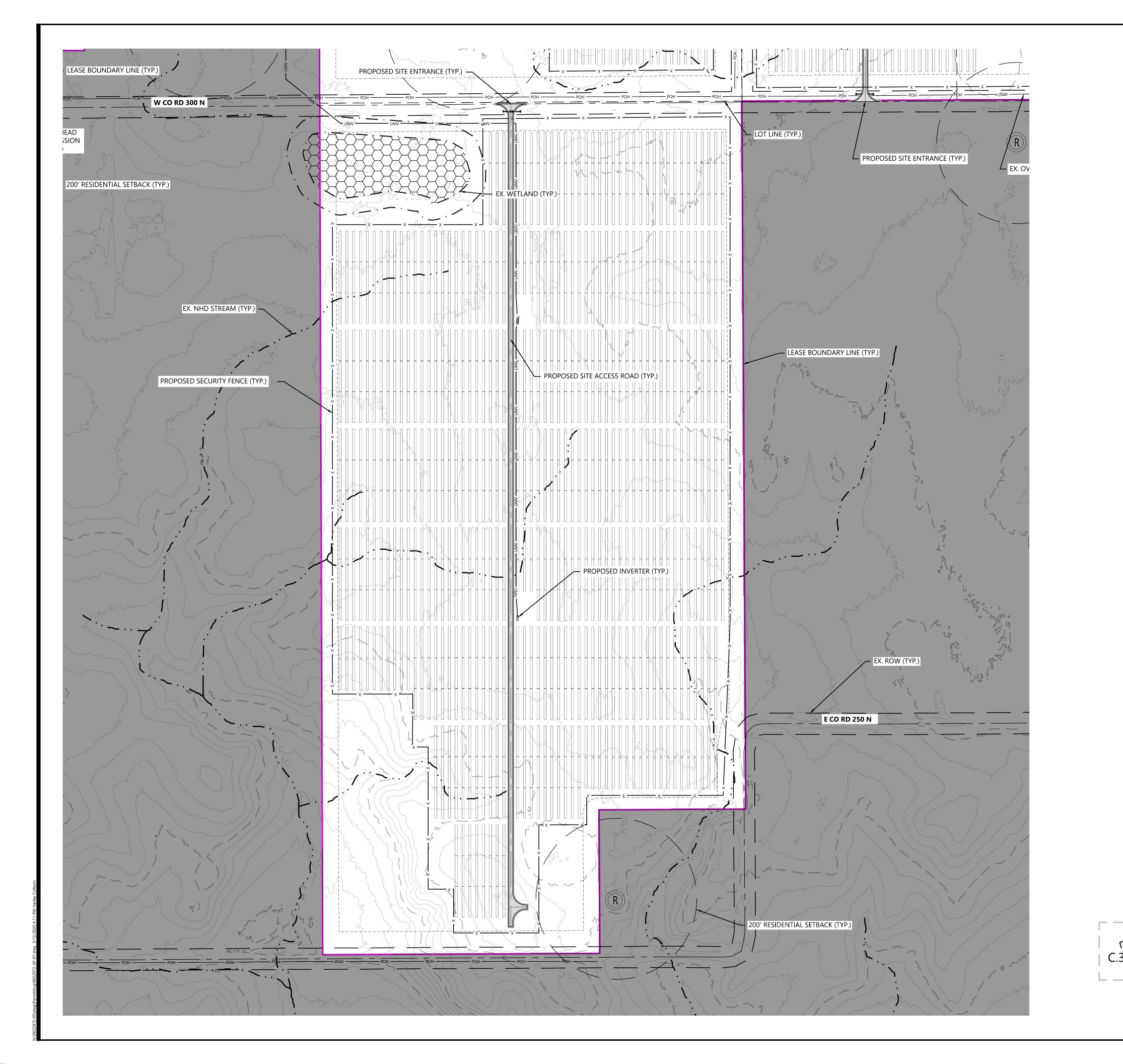
Clinton County, Indiana

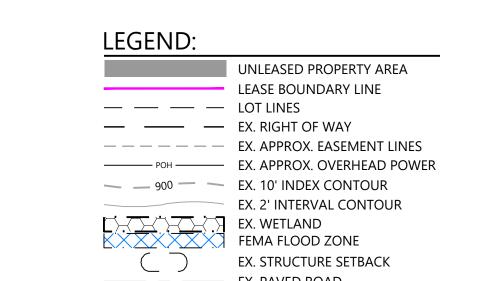
Site Plan

PRELIMINARY NOT FOR CONSTRUCTION

03/13/2020

C.313 SHEET:





——— — EX. PAVED ROAD

——— DT ——— EX. COUNTY DRAIN TILE

— · · — · · — NATIONAL HYDROGRAPHY DATASET (NHD) STREAM EX. COUNTY DRAINAGE DITCH

EX. CEMETERY EX. HISTORIC STRUCTURE

EX. RESIDENCE

PROPOSED SOLAR ARRAY ----- PROPOSED MODULE SETBACK

PROPOSED ACCESS ROAD — x — PROPOSED SECURITY FENCE PROPOSED ELECTRICAL EQUIPMENT PROPOSED PROJECT FACILITY PROPOSED LOW WATER CROSSING

GRADING AVOIDANCE AREA

PROPOSED ACCESS ROAD DRAINAGE CROSSING

— UMV — PROPOSED MEDIUM VOLTAGE COLLECTION

SETBACK TABLE		
NON-PARTICIPATING PROPERTY LINE	50 FT	
TYPICAL ROAD RIGHT OF WAY*	50 FT (83' FROM ROAD CENTERLINE)	
INDIANA HIGHWAY 75 RIGHT OF WAY**	50 FT (85' FROM ROAD CENTERLINE)	
NON-PARTICIPATING RESIDENCE	200 FT	
PARTICIPATING RESIDENCE	200 FT	
COUNTY DRAIN TILE AND DITCHES***	75 FT EITHER SIDE	
WETLAND	50 FT	
FEMA FLOODPLAIN	50 FT	
CEMETERY	200 FT	
HISTORIC STRUCTURE	200 FT	
TRANSMISSION LINE****	60 FT	

\* BASED ON 66 FT RIGHT OF WAY WIDTH

\*\* BASED ON 70 FT RIGHT OF WAY WIDTH

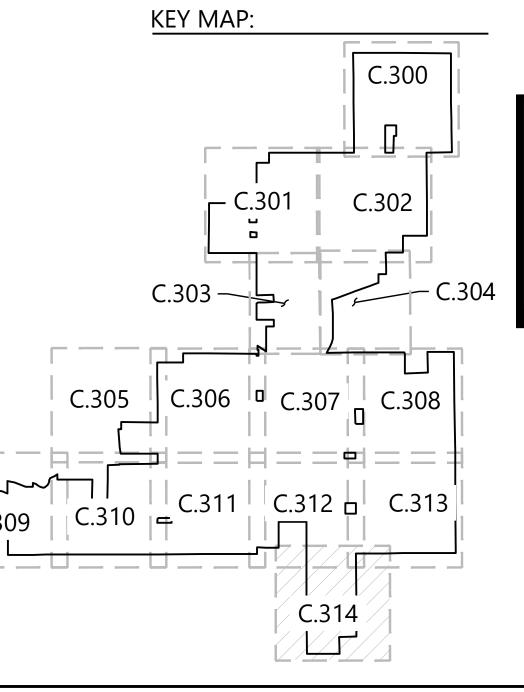
\*\*\* BASED ON 150FT TOTAL WIDTH

\*\*\* BASED ON 120 FT TOTAL EASEMENT WIDTH

\*\*\*\* TRANSMISSION LINE AND COUNTY DRAIN LINE SETBACKS ARE APPLIED TO

THE PROJECT SECURITY FENCE

PROPOSED ACCESS ROAD DRAINAGE CROSSINGS (CULVERT AND LOW WATER CROSSINGS) TO BE SIZED DURING FINAL CONSTRUCTION DESIGN PHASE.

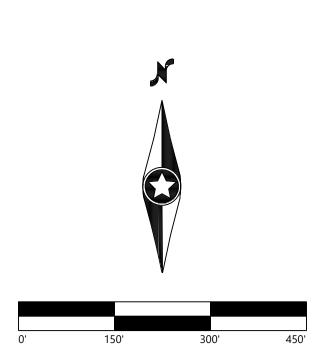


## Westwood Professional Services, Inc.

One South Wacker Drive Suite 1900 Chicago, IL 60606

REVI	SIONS:	
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A	01/17/2020	CONCEPTUAL PV LAYOUT
F	02/14/2020	DRAINAGE PLAN
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I 03/13/2020 DRAINAGE PLAN



#### **Hardy Hills Solar Project**

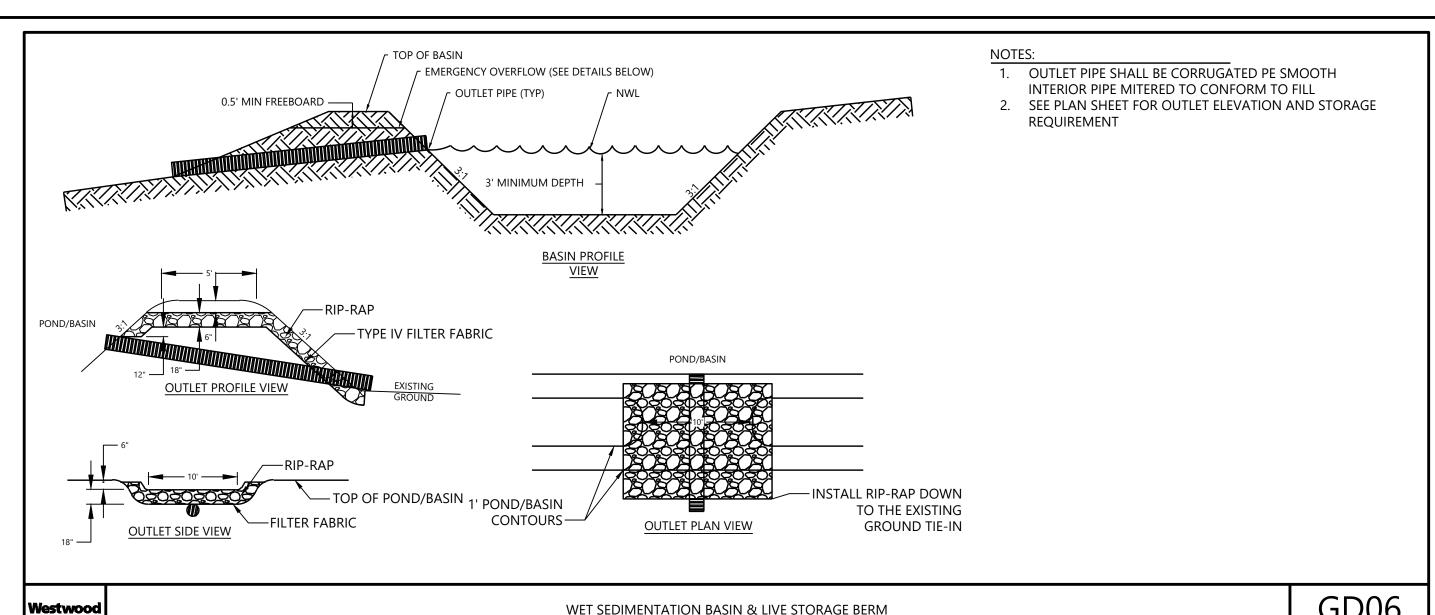
Clinton County, Indiana

Site Plan

PRELIMINARY NOT FOR CONSTRUCTION

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C.314 SHEET:



-DRIVEN WOODEN STAKES TO BE . FIBER ROLLS SHALL BE INSTALLED PRIOR TO UPSLOPE DISTURBANCE ACTIVITIES PERPENDICULAR FIBER ROLLS SHALL BE PREFABRICATED AND MADE FROM WEED FREE RICE STRAW, FLAX, TO SURFACE UNSLOPE DISTURBED -OR A SIMILAR AGRICULTURAL MATERIAL BOUND INTO A TIGHT TUBULAR ROLL BY NETTING. AREA/PROJECT SITE USE A 6" OR 12" DIA. ROLL TRENCHES SHALL BE CREATED ALONG THE SLOPE OF THE PERIMETER. THE TRENCH DEPTH SHOULD BE 1/4 TO 1/3 OF THE THICKNESS OF THE ROLL, AND THE WIDTH SHOULD EQUAL FLOW THE ROLL DIAMETER, IN ORDER TO PROVIDE AREA TO BACKFILL THE TRENCH. STAKE FIBER ROLLS INTO THE TRENCH. DRIVE STAKES AT THE END OF EACH FIBER ROLL AND SPACED 4 FEET MAXIMUM ON CENTER. USE WOOD STAKES WITH NOMINAL CLASSIFICATION OF 0.75 IN BY 0.75 IN. AND A MINIMUM LENGTH OF 24 IN. ROLLS SHALL BE INSTALLED PERPENDICULAR TO WATER MOVEMENT, AND PARALLEL TO THE SLOPE CONTOUR. TURN THE ENDS OF THE FIBER ROLLS UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE ROLL. THE UPSLOPE POINT SHOULD BE A MINIMUM 6" HIGHER IN ELEVATION WRAP ENDS UPSLOPE TO-THAN THE LOW POINT. CONTAIN RUNOFF FROM IF MORE THAN ONE FIBER ROLL IS PLACED IN A ROW, THE ROLLS SHOULD BE OVERLAPPED OVERLAP ROLLS CONSTRUCTION AREA A MINIMUM OF 6 INCHES, NOT ABUTTED. A MINIMUM 6" FIBER ROLLS ENCASED WITH PLASTIC NETTING ARE USED FOR A TEMPORARY APPLICATION UNDISTURBED AREA ONLY AND SHOULD BE REMOVED FOLLOWING STABILIZATION. FIBER ROLLS USED IN A PERMANENT APPLICATION SHALL BE ENCASED WITH A BIODEGRADABLE MATERIAL AND TEMPORARY INSTALLATIONS SHOULD ONLY BE REMOVED WHEN UP GRADIENT AREAS ARE 24" MIN STABILIZED PER GENERAL PERMIT REQUIREMENTS, AND/OR POLLUTANT SOURCES NO LONGER PRESENT A HAZARD. BUT, THEY SHOULD ALSO BE REMOVED BEFORE VEGETATION BECOMES TOO MATURE SO THAT THE REMOVAL PROCESS DOES NOT DISTURB MORE SOIL AND VEGETATION THAN IS NECESSARY ). FIBER ROLLS MUST BE INSPECTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS 14. RILLS OR GULLIES MAY BEGIN TO FORM FOLLOWING MAJOR STORM EVENTS WHERE RUNOFF HAS OVERTOPPED FOR THE ASSOCIATED PROJECT TYPE AND RISK LEVEL. IT IS RECOMMENDED THAT AT A MINIMUM, THE BMPS BE INSPECTED WEEKLY, PRIOR TO FORECASTED RAIN EVENTS, DAILY

THE FIBER ROLLS. THESE RILLS OR GULLIES SHOULD BE PROMPTLY REPAIRED. DURING EXTENDED RAIN EVENTS, AND AFTER THE CONCLUSION OF RAIN EVENTS.

TYPICAL FIBER ROLLS FOR PERIMETER CONTROL OF CONSTRUCTION AREA LIMIT

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GD42

## Invenergy

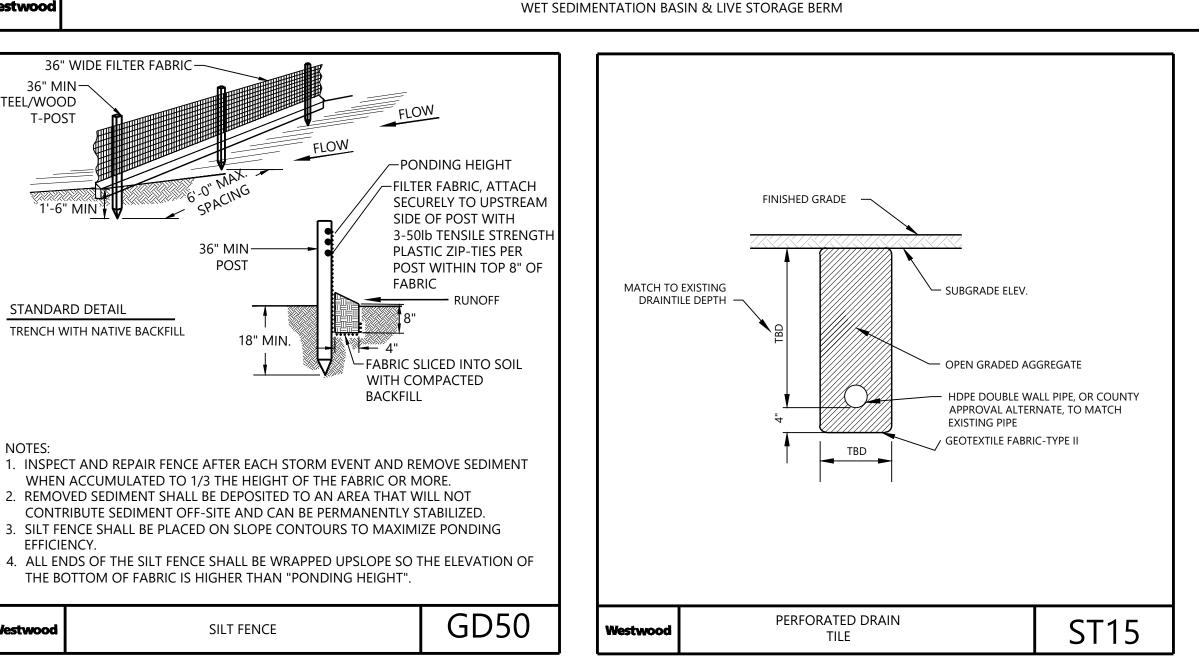
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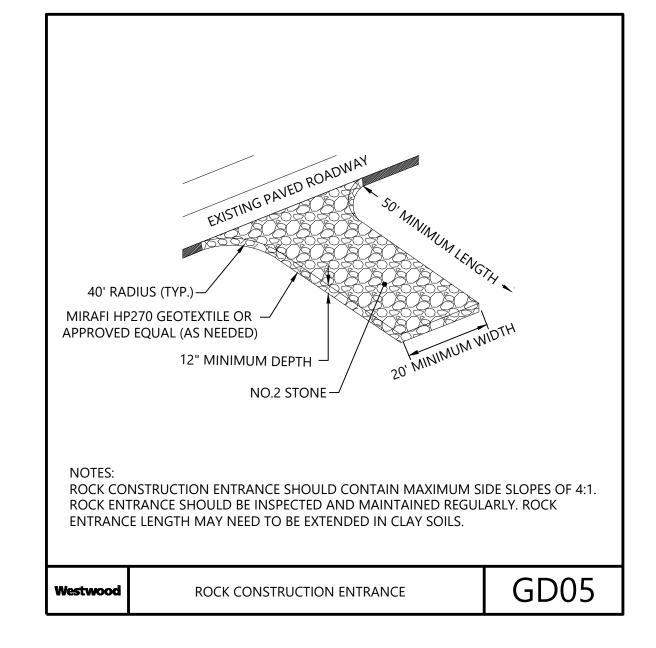
F		REVISIONS:		
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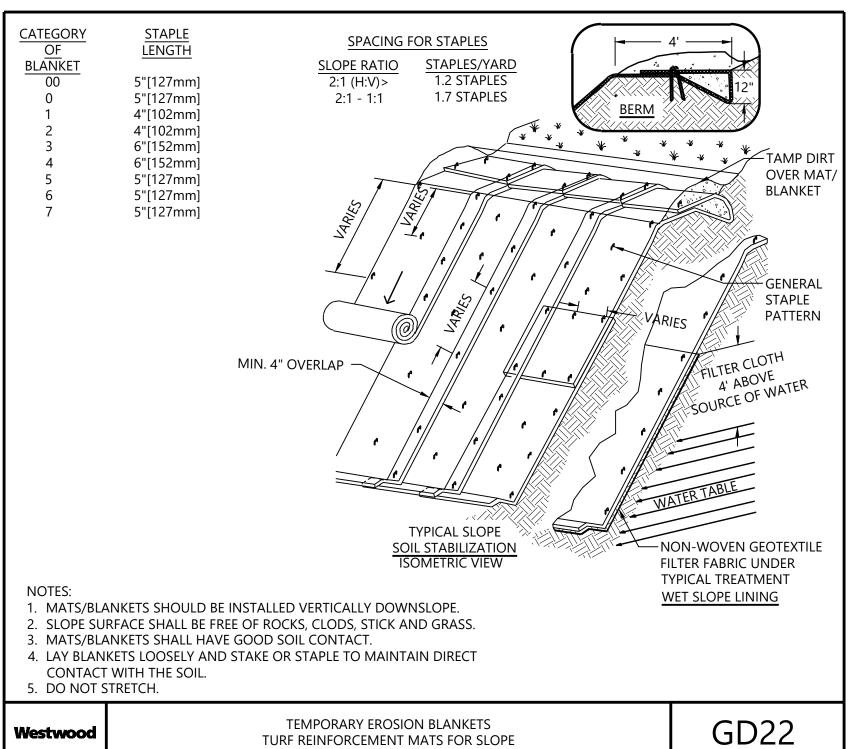
STORAGE DEPTH

2. REPAIR OR REPLACE SPLIT, TORN, UNRAVELING, OR SLUMPING FIBER ROLLS.

B. SEDIMENT THAT ACCUMULATES UPSLOPE OF THE BMP SHOULD BE PERIODICALLY

REMOVED IN ORDER TO MAINTAIN BMP EFFECTIVENESS. SEDIMENT SHOULD BE REMOVED

WHEN SEDIMENT ACCUMULATION REACHES ONE-THIRD THE DESIGNATED SEDIMENT



-PONDING HEIGHT

SIDE OF POST WITH

RUNOFF

FABRIC SLICED INTO SOIL

WITH COMPACTED

BACKFILL

36" WIDE FILTER FABRIC-

POST

WHEN ACCUMULATED TO 1/3 THE HEIGHT OF THE FABRIC OR MORE. 2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED. 3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING

SILT FENCE

THE BOTTOM OF FABRIC IS HIGHER THAN "PONDING HEIGHT".

18" MIN.

36" MIN-

STANDARD DETAIL

TRENCH WITH NATIVE BACKFILL

STEEL/WOOD T-POST

#### **Hardy Hills Solar Project**

Clinton County, Indiana

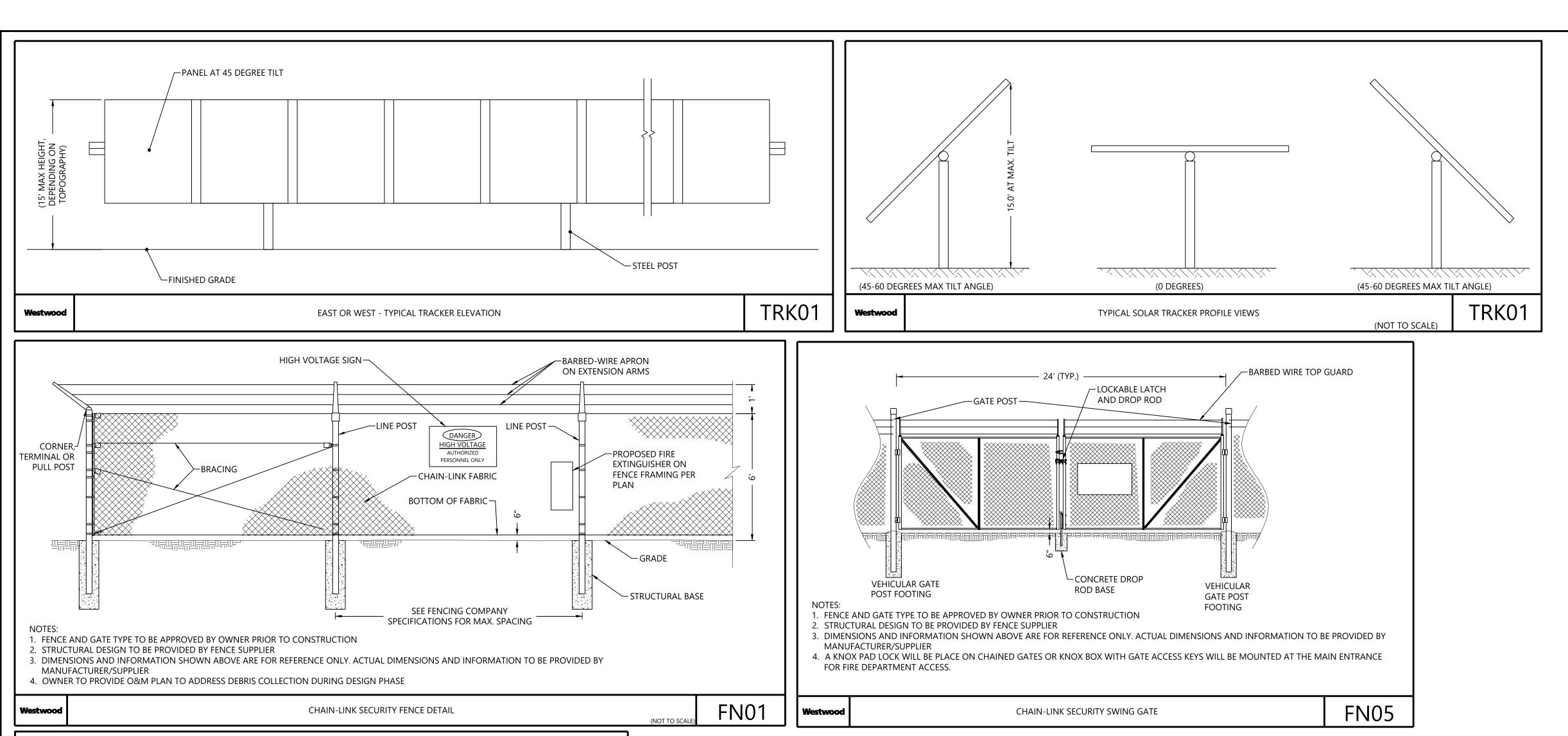
**Construction Details** 

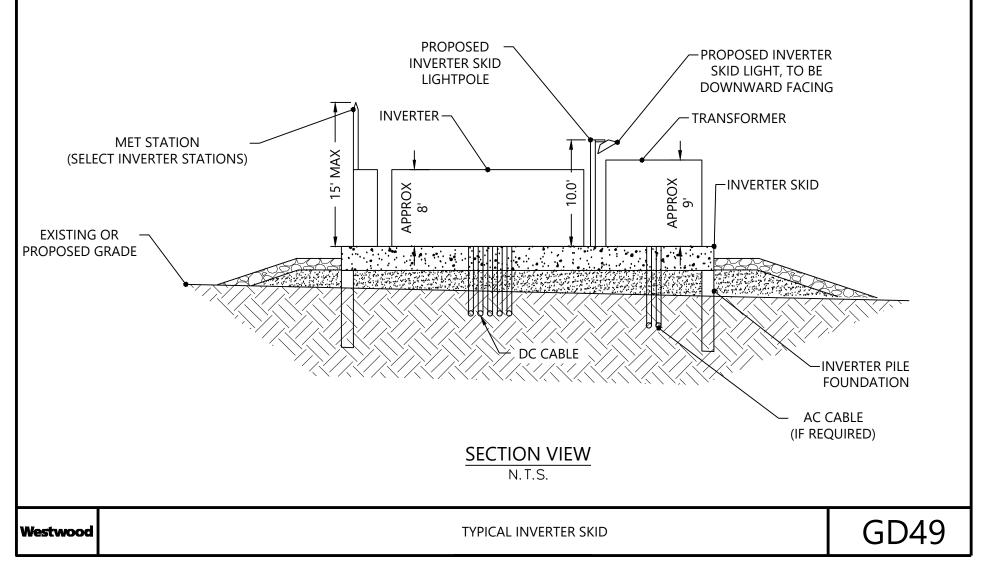
**PRELIMINARY** NOT FOR CONSTRUCTION

03/13/2020 DATE:

C.400

SHEET:





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#### Hardy Hills Solar Project

Clinton County, Indiana

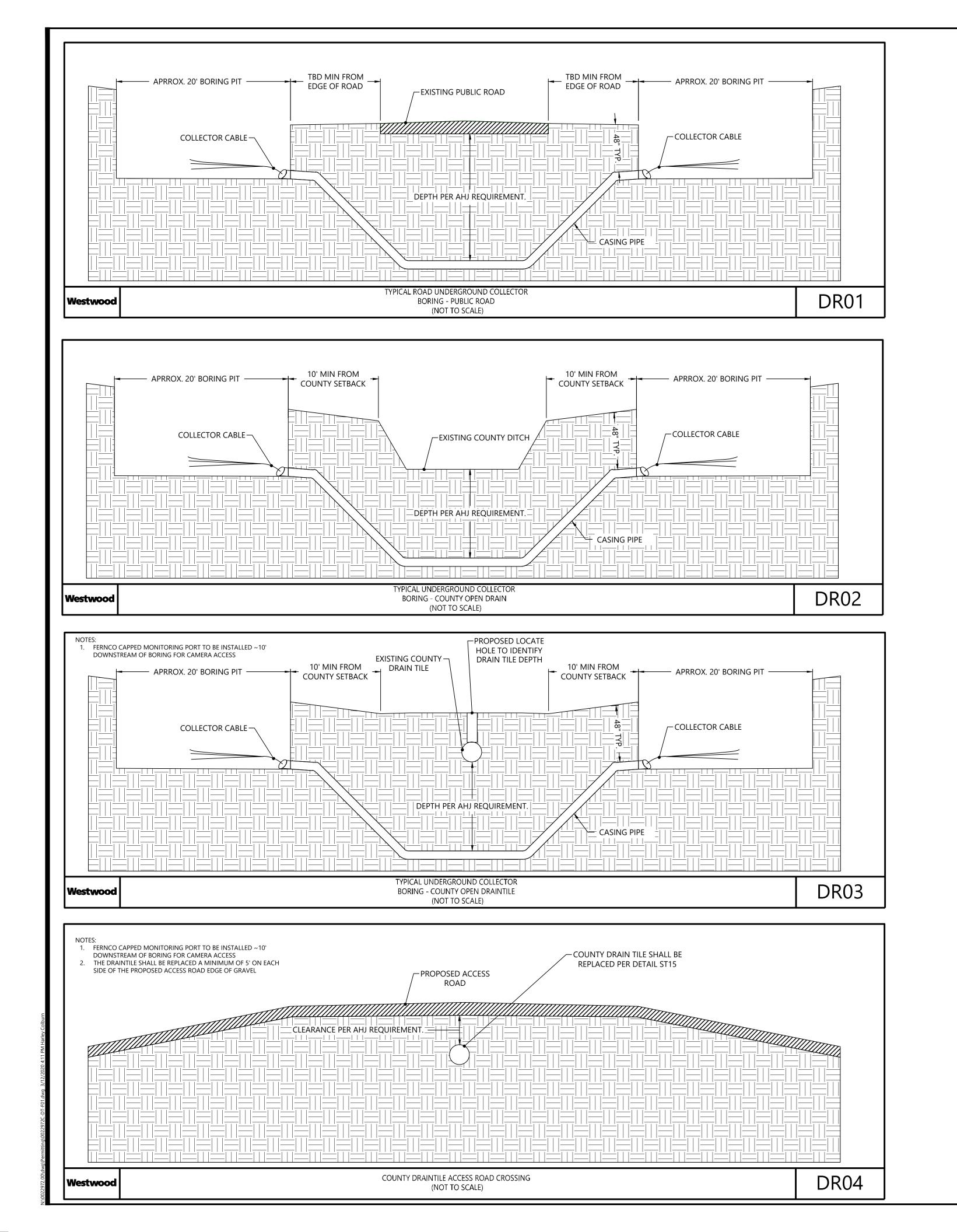
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C.401





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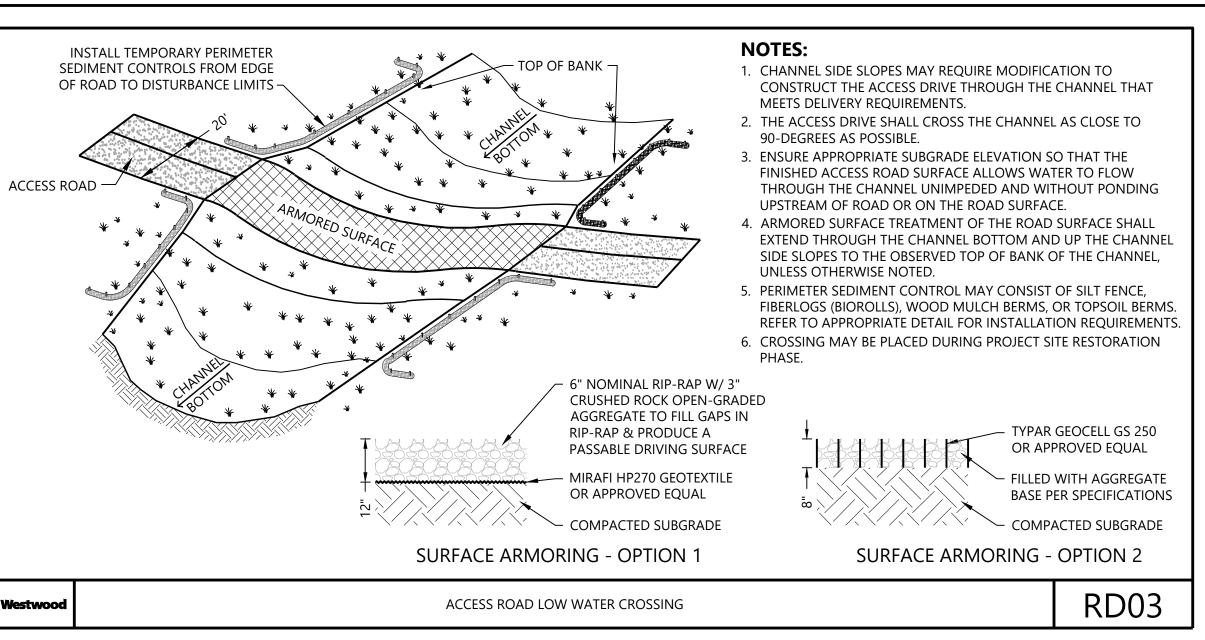
## **Hardy Hills Solar Project**Clinton County, Indiana

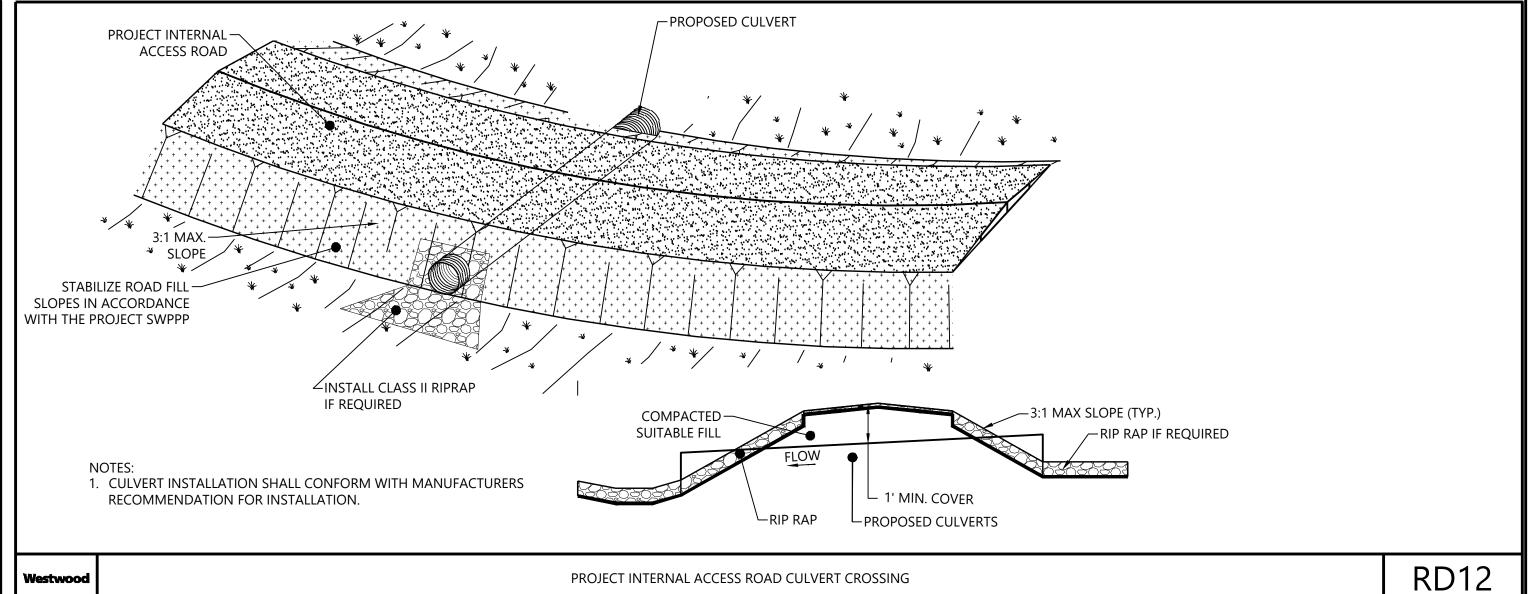
**Construction Details** 

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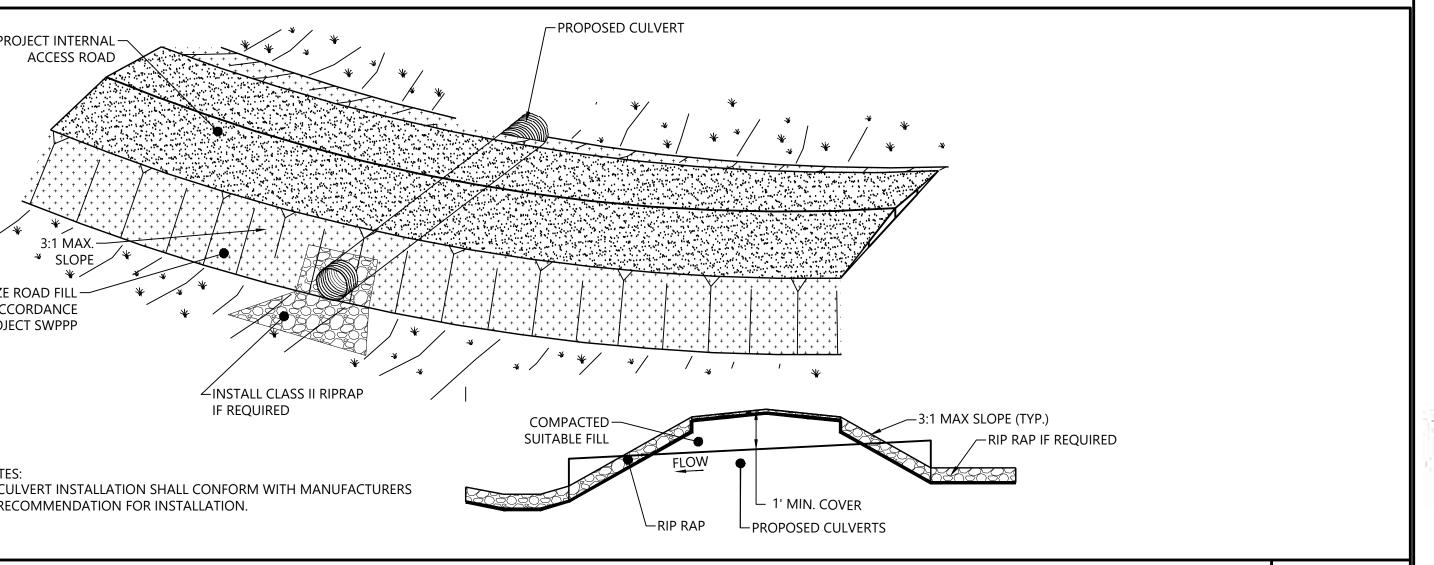
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C.402 SHEET:





PROJECT INTERNAL ACCESS ROAD CULVERT CROSSING



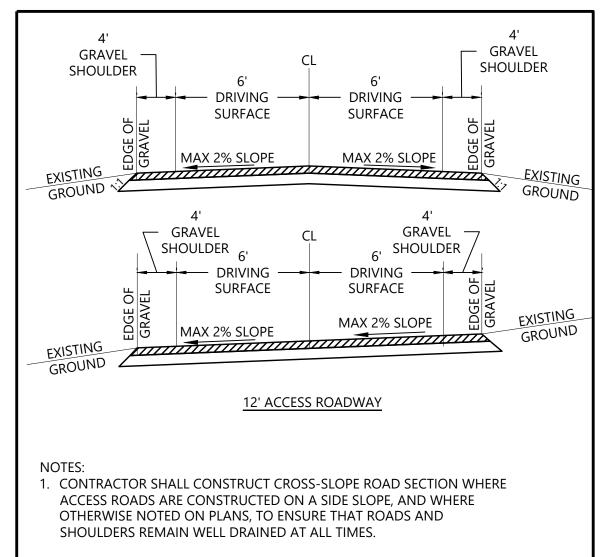
westwoodps.com Westwood Professional Services, Inc.

#### Invenergy

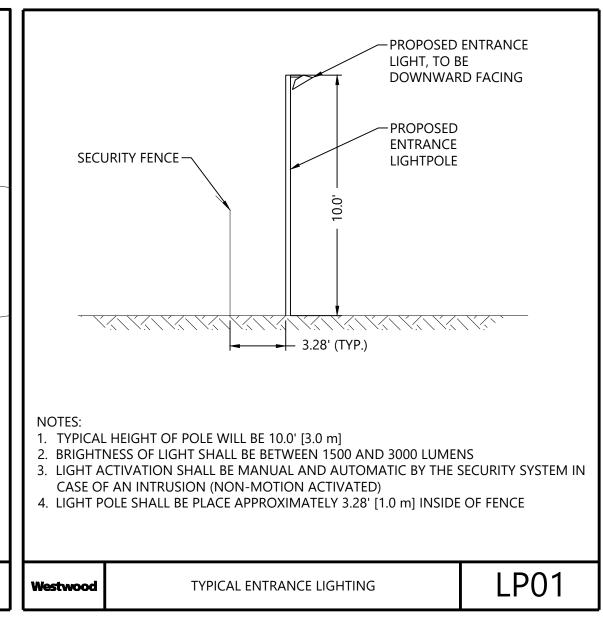
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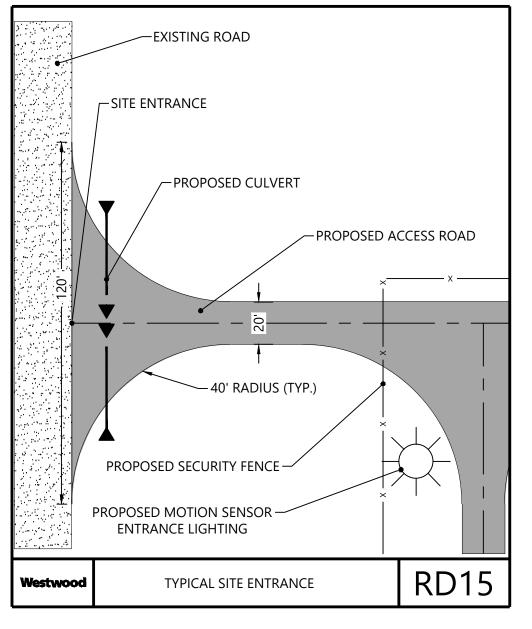
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TYPICAL SOLAR ACCESS ROAD





#### 1' MIN COVER ABOVE — MATCH INTO EXISTING GRADE CULVERT 4:1 MAX SLOPE - 20' ACCESS DRIVE -MATCH INTO EXISTING . CMP CULVERT LOCATED AT SITE ENTRANCES GRADE 4:1 MAX SLOPE EXISTING GROUND CULVERT GROUND - INSTALL CULVERT TO MATCH EXISTING DITCH SLOPE, SET INVERT 6" BELOW DITCH BOTTOM GD01 TYPICAL ENTRANCE CULVERT SECTION VIEW

RD01

#### **Hardy Hills Solar Project**

Clinton County, Indiana

**Construction Details** 

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C.403 SHEET: