

Harmony Solar Project
Appendix C
Project Site Plan

Harmony Solar ND, LLC

200 MW-AC Solar Array Project Cass County, North Dakota

Issued for Permit

PREPARED FOR:

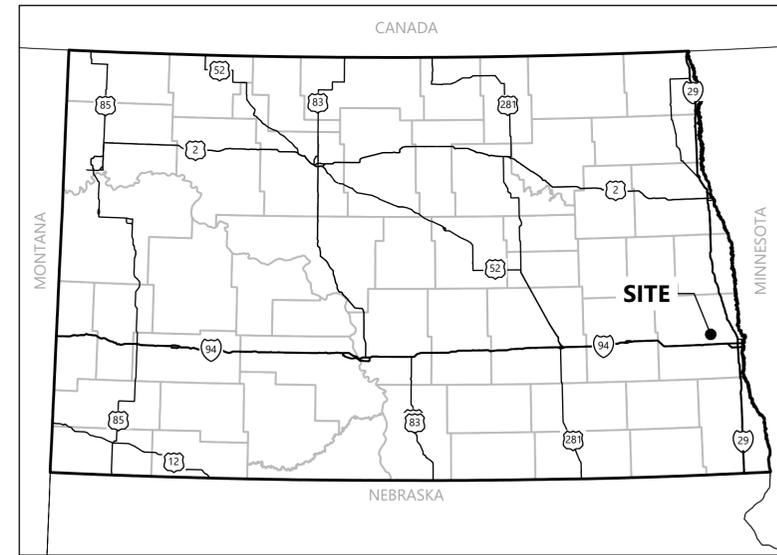


8400 Normandale Lake Blvd, Suite 1200
Bloomington, MN 55347

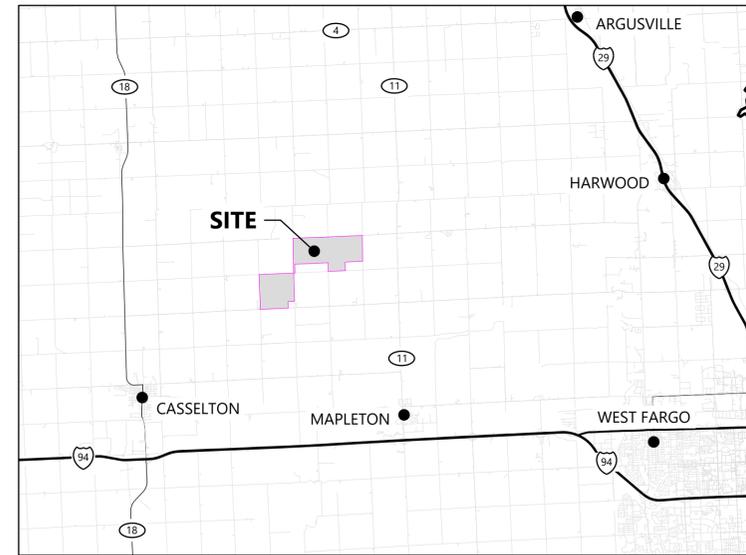
REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	03/22/2024	Permit Plan - Revised Layout	AW	BV	BV
B	05/29/2024	Permit Plan - Revised Layout	AW	BV	BV
C	06/12/2024	Permit Plan - Revised Layout	AW	BV	BV

REGIONAL MAP



VICINITY MAP



SHEET NUMBER	SHEET TITLE
C100	Cover
C200	Overall Site Plan
C300	Existing Conditions - 1
C301	Existing Conditions - 2
C302	Existing Conditions - 3
C400	Site Plan - 1
C401	Site Plan - 2
C402	Site Plan - 3
C403	Site Plan - 4
C404	Site Plan - 5
C405	Site Plan - 6
C406	Site Plan - 7
C407	Site Plan - 8
C408	Site Plan - 9
C409	Site Plan - 10
C410	Site Plan - 11
C411	Site Plan - 12
C500	Construction Details
C501	Construction Details

PROJECT ROLE	CONTACT NAME	COMPANY	PHONE
OWNER/DEVELOPER	JAY HESSE	NATIONAL GRID	952-358-5662
PROJECT MANAGER	KATIE ASENDORF	WESTWOOD	952-697-5739
CIVIL ENGINEER LEAD	BRETT VANDERWIEL	WESTWOOD	952-906-7431

**Harmony Solar
ND, LLC**
Cass County, North Dakota

Cover

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DATE: 06/12/2024
SHEET: C100
REV: C

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REVISIONS:

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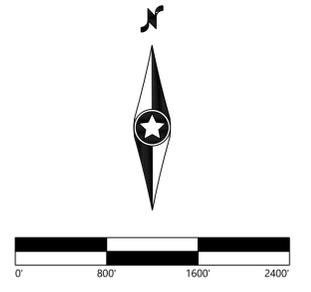
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- PROJECT BOUNDARY
- SECTION LINES
- RIGHT-OF-WAY LINES
- PARCEL LINES
- EASEMENT LINES
- EX. GRAVEL ROAD
- EX. UNPAVED ROAD CENTERLINE
- EX. OVERHEAD POWER
- EX. UNDERGROUND POWER
- EX. STREAM CHANNEL
- EX. WATER EDGE
- FEMA FLOOD ZONE
- PROPOSED SOLAR ARRAY
- PROPOSED ELECTRICAL EQUIPMENT
- PROPOSED MODULE SETBACK
- PROPOSED 16' ACCESS ROAD
- PROPOSED 20' SUBSTATION ACCESS ROAD
- PROPOSED SECURITY FENCE
- PROPOSED LAYDOWN YARD
- PROPOSED O&M FACILITY
- PROPOSED SUBSTATION
- PROPOSED UNDERGROUND COLLECTION
- PROPOSED OVERHEAD POWER LINE
- PROPOSED PERMANENT BASIN LOCATION
- WATER LINE EASEMENT
- PROPOSED PROJECT ENTRANCE

- NOTES:**
- EQUIPMENT SHOWN WITHIN THIS PLAN IS FOR REFERENCE ONLY AND MAY CHANGE WITH FURTHER DESIGN.
 - BASIN AREAS SHOWN REPRESENT INTENDED PRELIMINARY LOCATIONS. SIZE IS NOT REPRESENTATIVE OF THE ACTUAL BASIN SIZE. ACTUAL SIZE TO BE DETERMINED WITH FURTHER ENGINEERING DESIGN.

SETBACKS TABLE

FEATURE	DISTANCE (FT)
From Township Roads	75
Side	50
Rear	50
Right-of-way	100
Wetlands/Streams	50
Channel Ditch	50
Ex. Transmission Line	50



Harmony Solar ND, LLC
 Cass County, North Dakota

Overall Site Plan

Issued for Permit
 Not for Construction

DATE: 06/12/2024
 SHEET: C200
 REV: C

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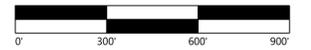
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 Bloomington, MN 55347

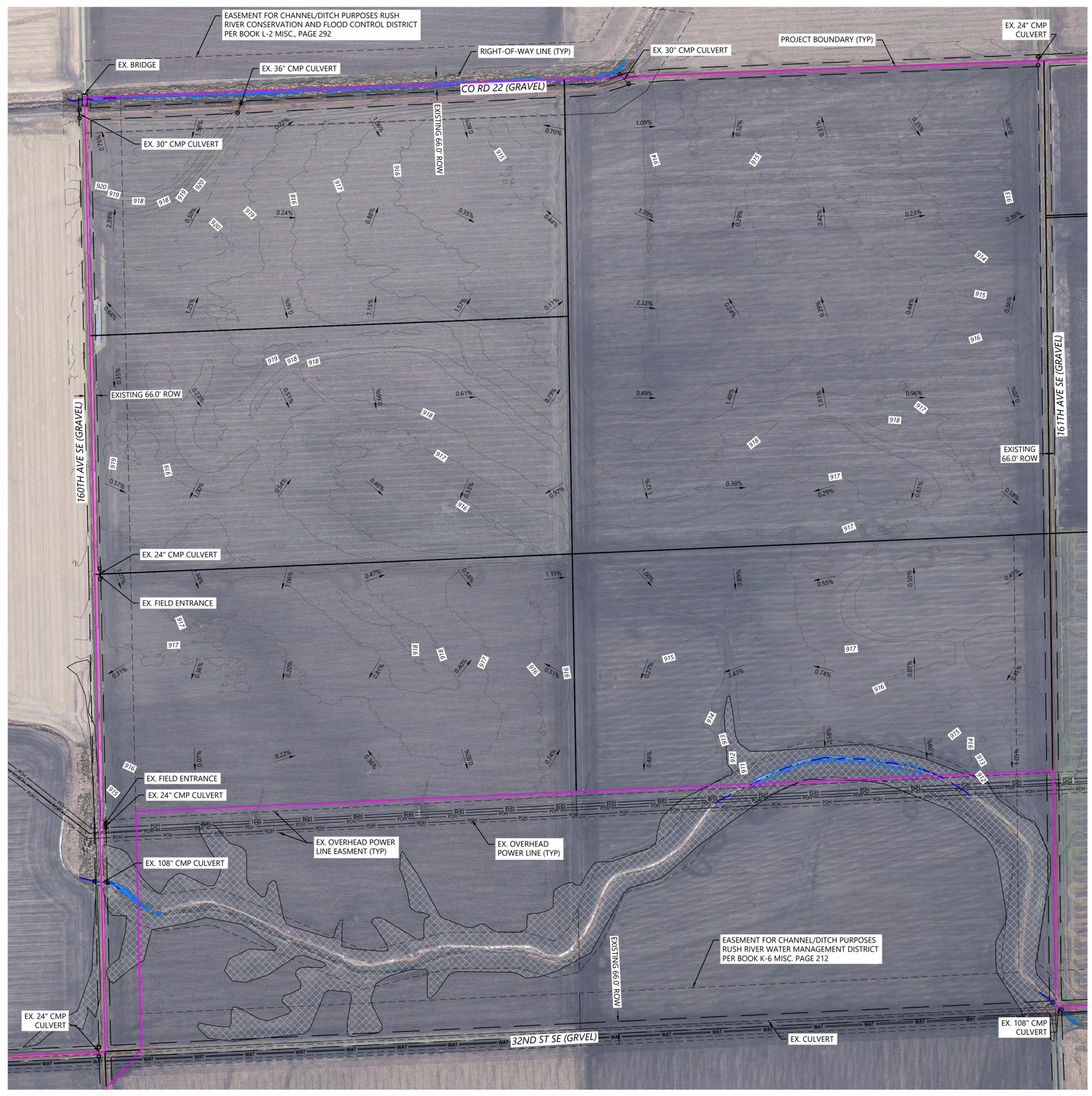
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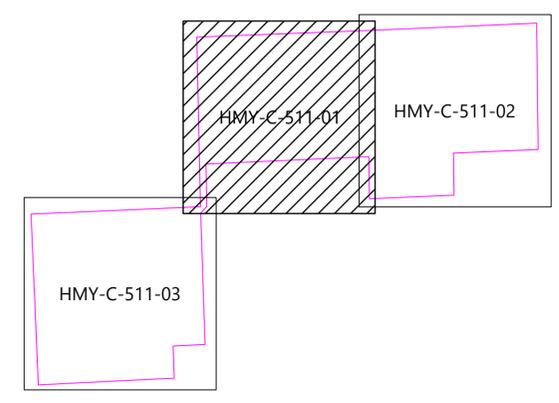


LEGEND:

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- EX. CULVERT
- EX. OVERHEAD POWER
- EX. UNDERGROUND POWER
- EX. STREAM CHANNEL
- EX. WATER EDGE
- FEMA FLOOD ZONE



KEY MAP:



Harmony Solar ND, LLC

Cass County, North Dakota

Existing Conditions - 1

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DATE:	06/12/2024	REV:	
SHEET:	C300		C

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LEGEND:

- PROJECT BOUNDARY
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- RIGHT-OF-WAY LINES
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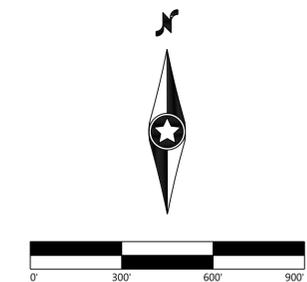
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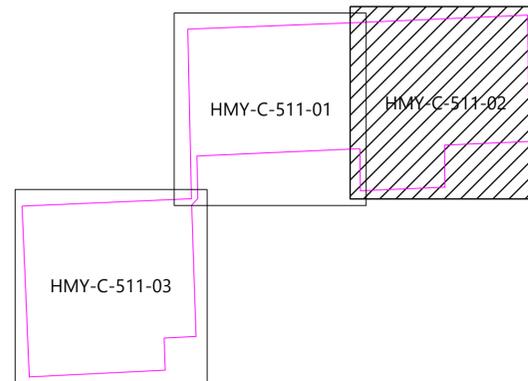
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KEY MAP:



**Harmony Solar
 ND, LLC**

Cass County, North Dakota

Existing Conditions - 2

Issued for Permit
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DATE: 06/12/2024 REV:
 SHEET: C301 C

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REVISIONS:

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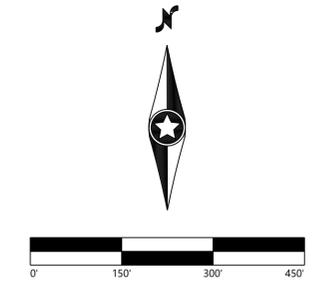
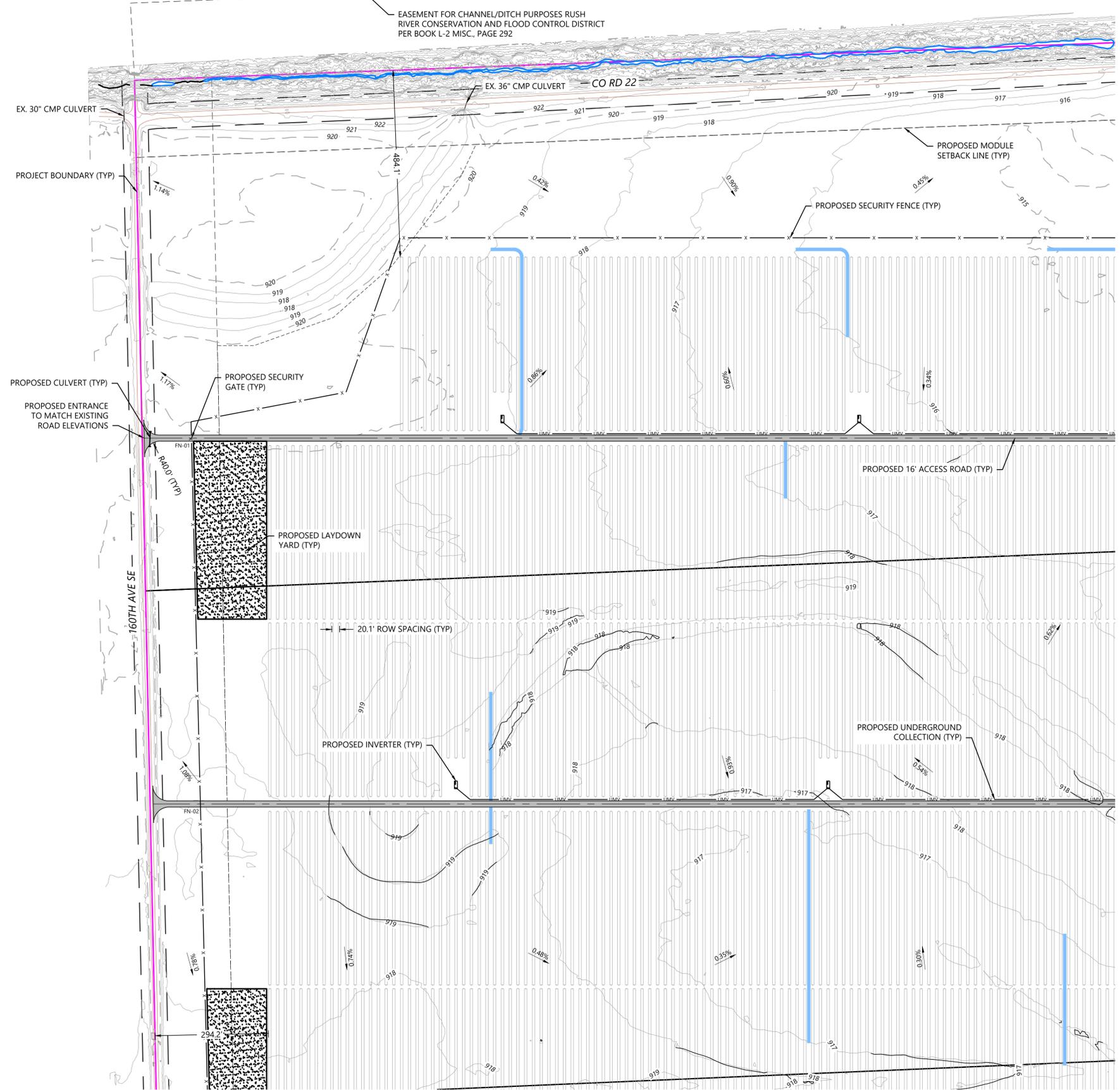
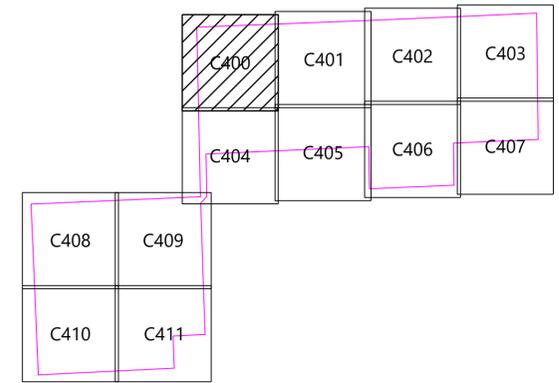
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- PROPOSED UNDERGROUND COLLECTION
- PROPOSED OVERHEAD POWER LINE
- PROPOSED INDEX CONTOUR
- PROPOSED INTERVAL CONTOUR
- PROPOSED DRAINTILE
- PROPOSED EARTHEN BERM WITH ROCK WEEPER
- PROPOSED PERMANENT BASIN LOCATION
- WATER LINE EASEMENT
- PROPOSED CONCRETE WASHOUT LOCATION
- PROPOSED DRAINAGE CROSSING LABEL
- PROPOSED SECURITY GATE LABEL

NOTES:

- HORIZONTAL PROJECT COORDINATE SYSTEM IS NSRS 2011, NORTH DAKOTA, SOUTH ZONE, INTERNATIONAL FOOT.
- SEE SHEETS C500 - C501 FOR SITE DETAILS, FENCING DETAILS, AND ROAD SECTION DETAILS.
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SETBACKS TABLE	
FEATURE	DISTANCE (FT)
From Township Roads	75
Side	50
Rear	50
Right-of-way	100
Wetlands/Streams	50
Channel Ditch	50
Ex. Transmission Line	50

KEY MAP:



Harmony Solar ND, LLC
 Cass County, North Dakota

Site Plan - 1

Issued for Permit
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DATE: 06/12/2024
 SHEET: C400
 REV: C

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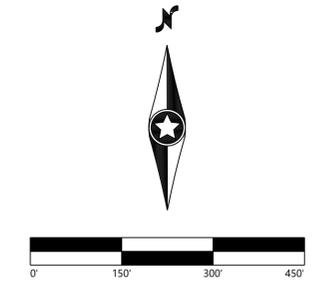
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- SECTION LINES
- RIGHT-OF-WAY LINES
- PARCEL LINES
- EASEMENT LINES
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
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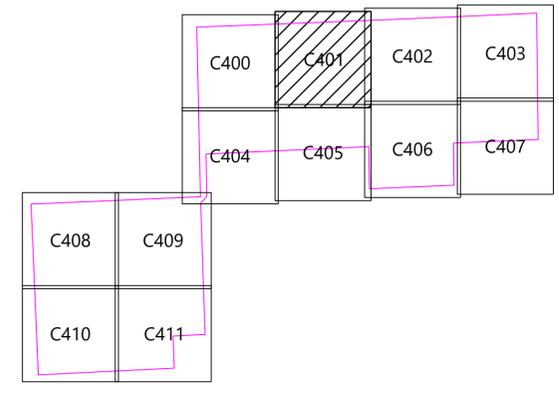
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FEATURE	DISTANCE (FT)
From Township Roads	75
Side	50
Rear	50
Right-of-way	100
Wetlands/Streams	50
Channel Ditch	50
Ex. Transmission Line	50



KEY MAP:



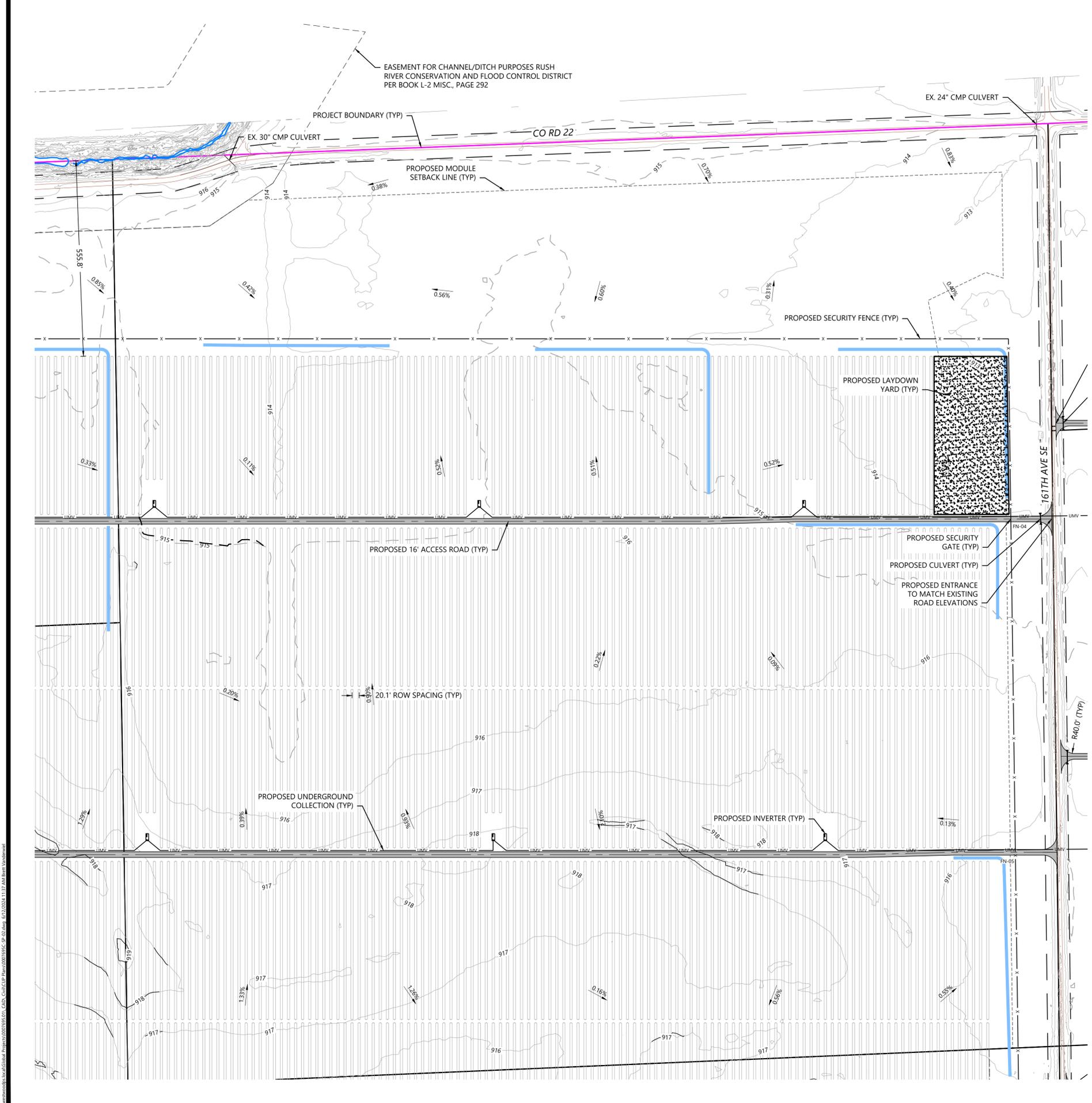
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Cass County, North Dakota

Site Plan - 2

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DATE: 06/12/2024
 SHEET: C401
 REV: C



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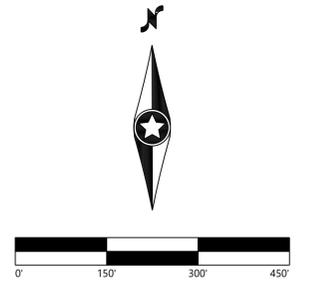
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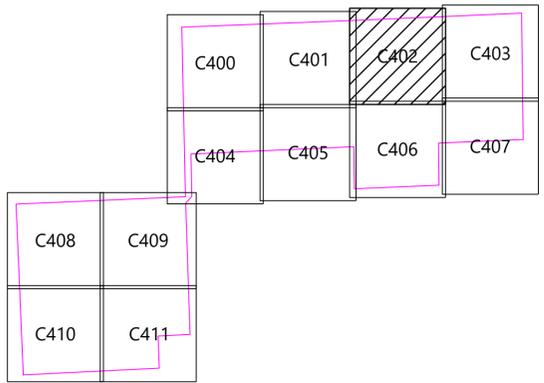
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KEY MAP:



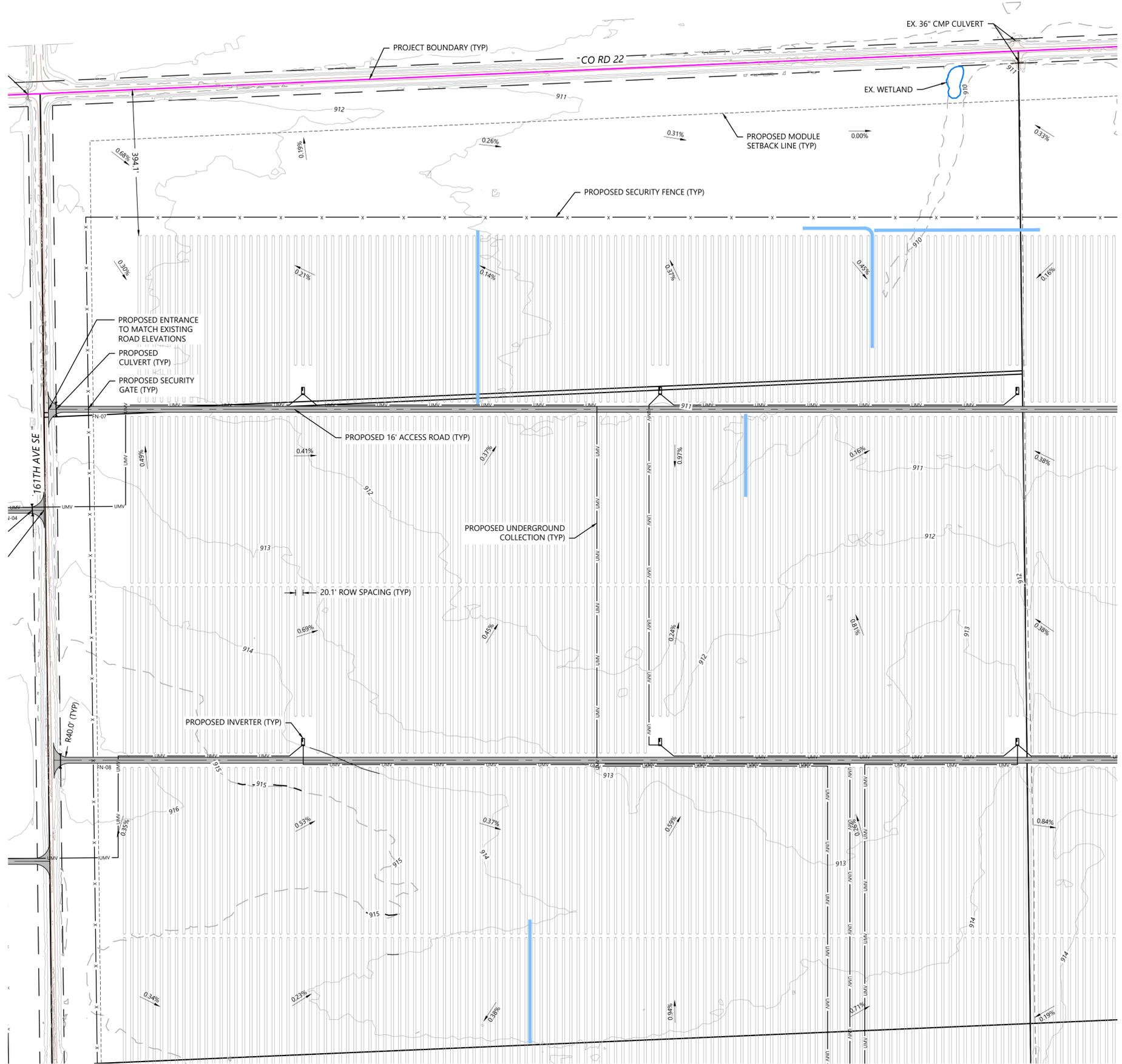
Harmony Solar ND, LLC

Cass County, North Dakota

Site Plan - 3

Issued for Permit
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DATE: 06/12/2024
 SHEET: C402
 REV: C



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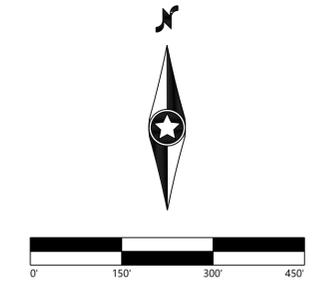
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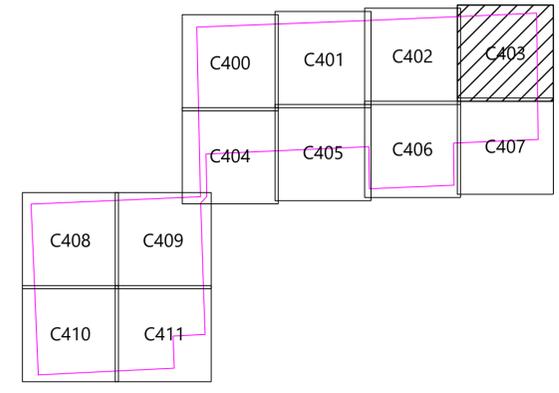
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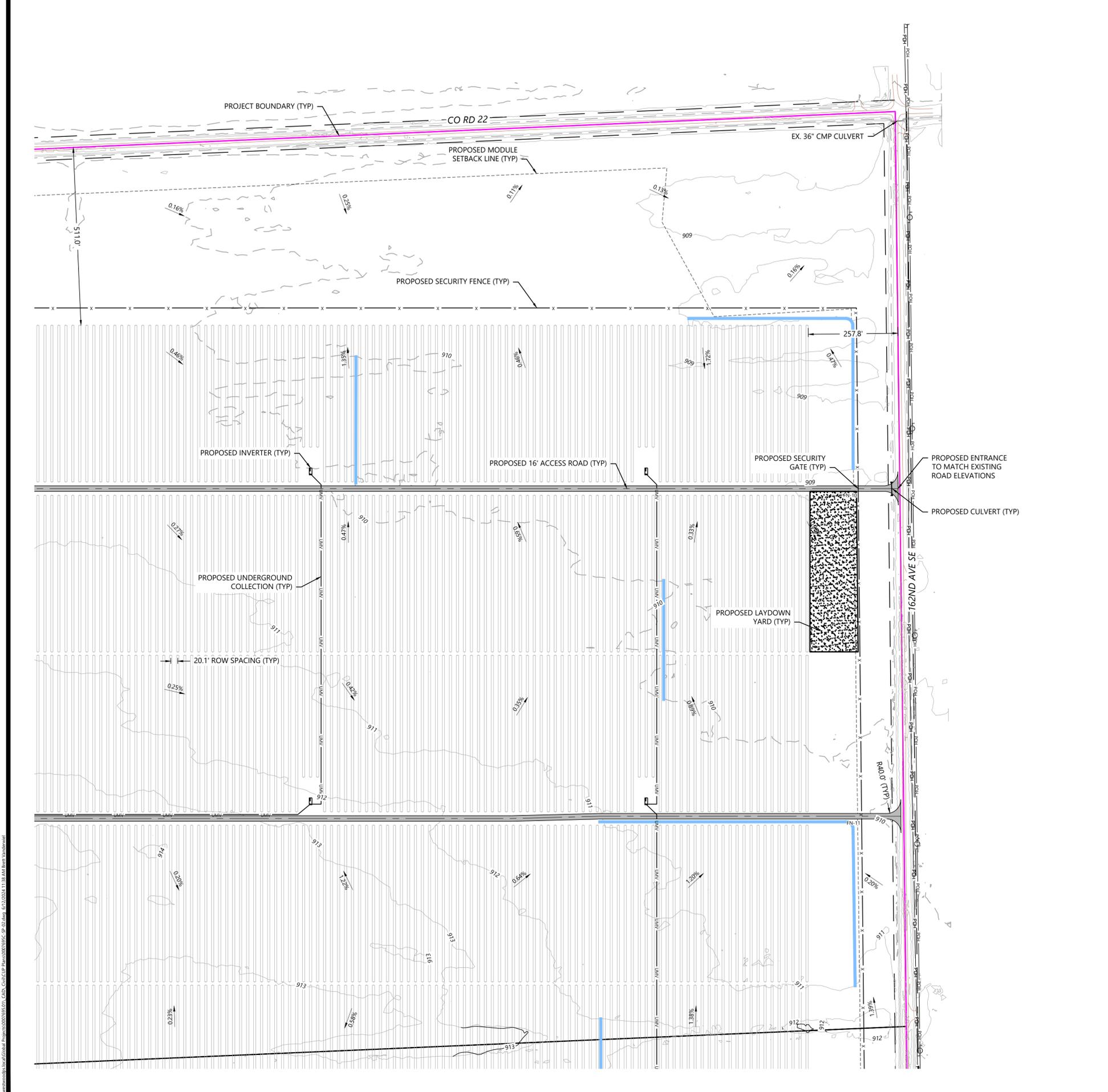
Harmony Solar ND, LLC

Cass County, North Dakota

Site Plan - 4

Issued for Permit
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DATE: 06/12/2024
 SHEET: C403
 REV: C



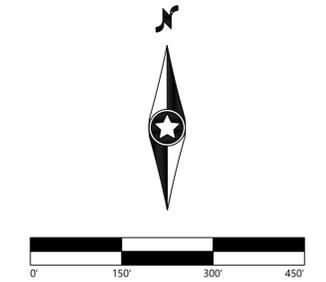
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 Bloomington, MN 55347

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Harmony Solar ND, LLC

Cass County, North Dakota

Site Plan - 5

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DATE: 06/12/2024
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LEGEND:

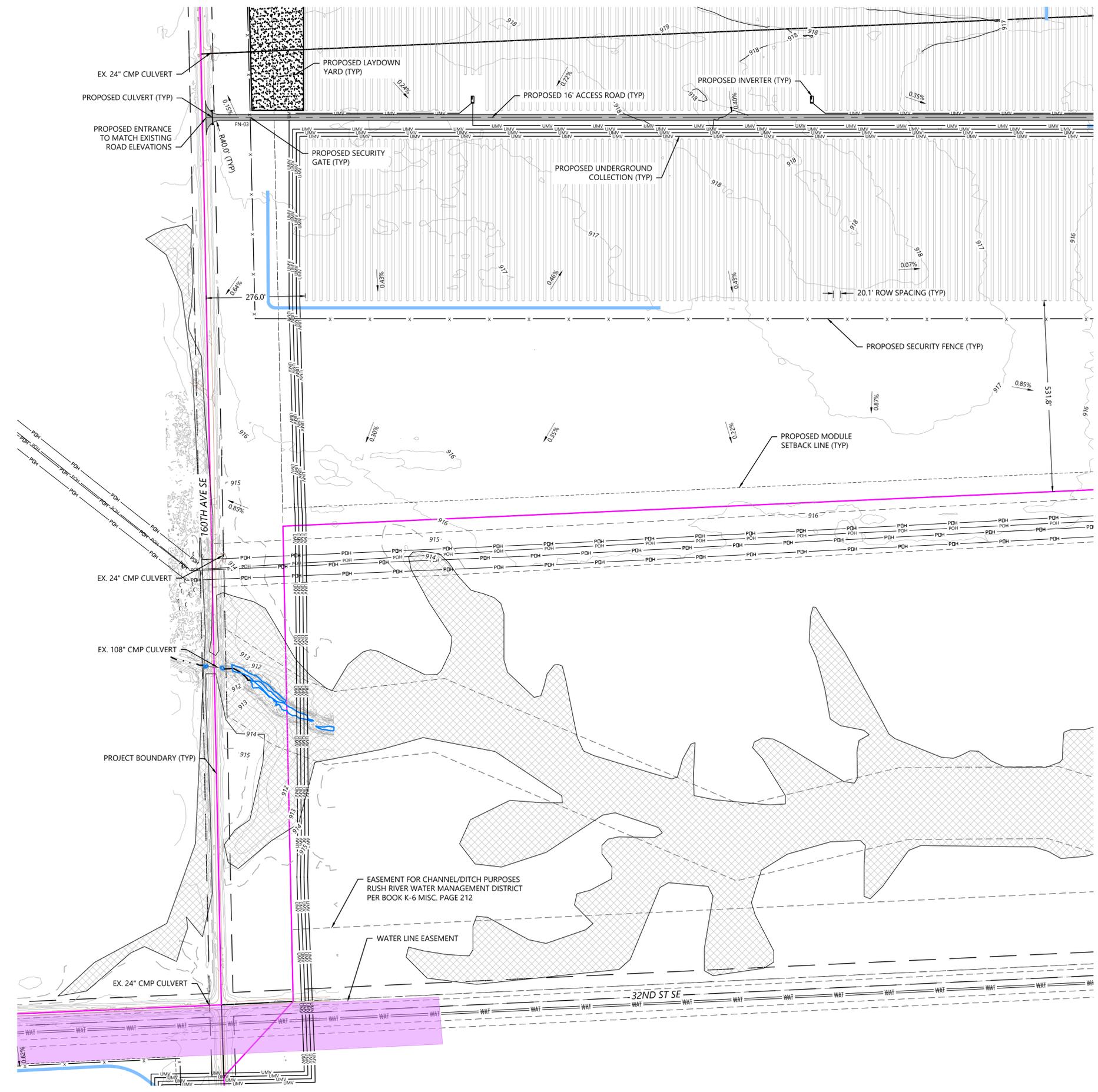
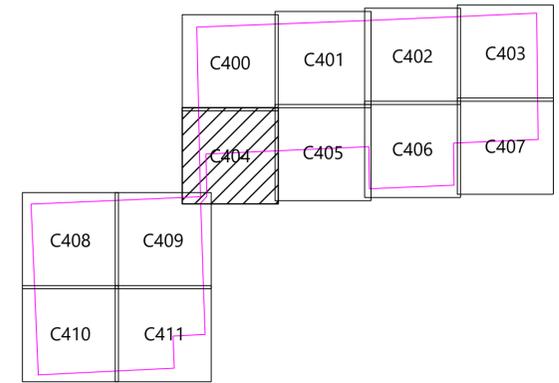
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SETBACKS TABLE	
FEATURE	DISTANCE (FT)
From Township Roads	75
Side	50
Rear	50
Right-of-way	100
Wetlands/Streams	50
Channel Ditch	50
Ex. Transmission Line	50

KEY MAP:



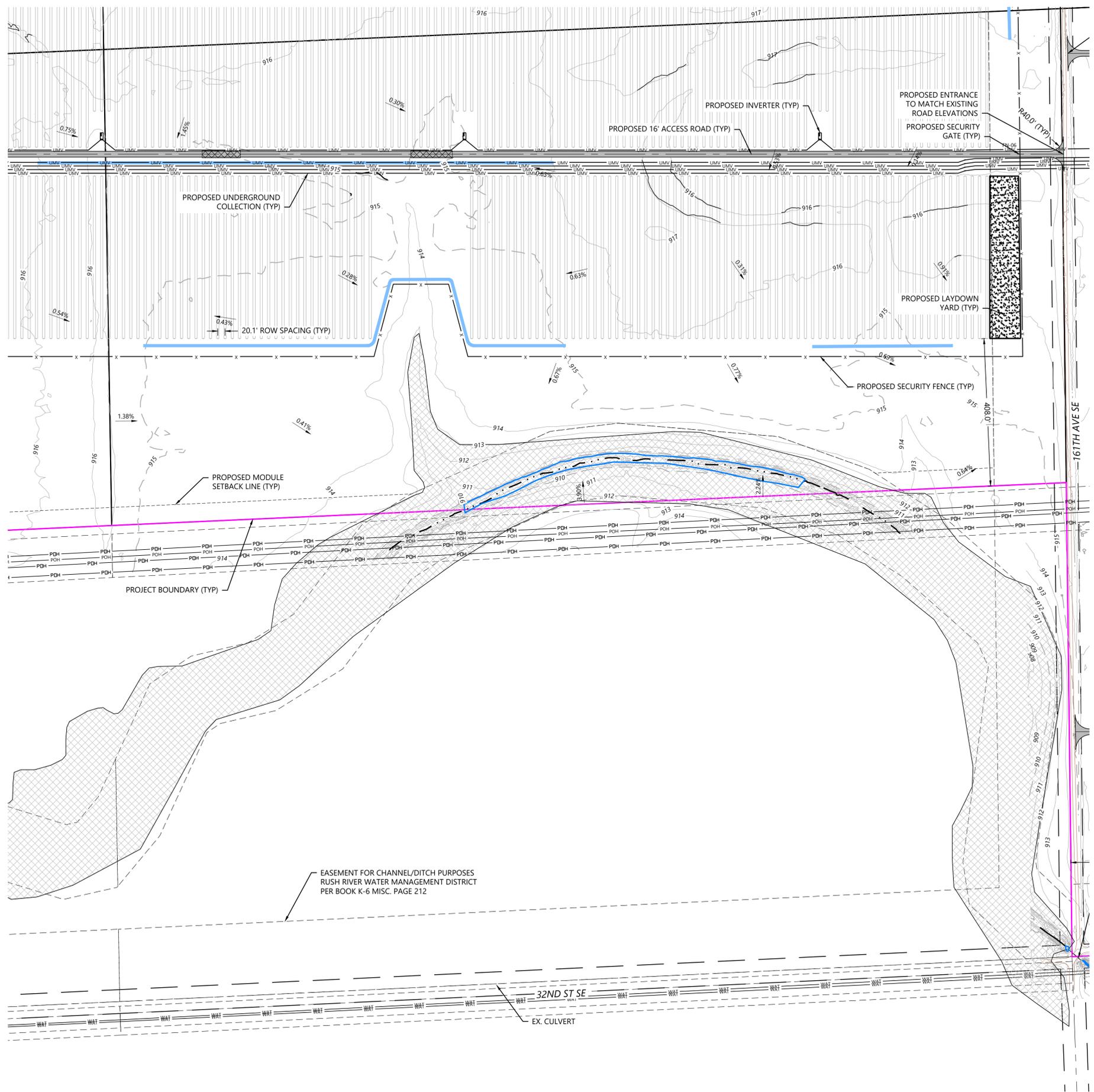
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8400 Normandale Lake Blvd, Suite 1200
 Bloomington, MN 55347

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	03/22/2024	Permit Plan - Revised Layout	AW	BV	BV
B	05/29/2024	Permit Plan - Revised Layout	AW	BV	BV
C	06/12/2024	Permit Plan - Revised Layout	AW	BV	BV



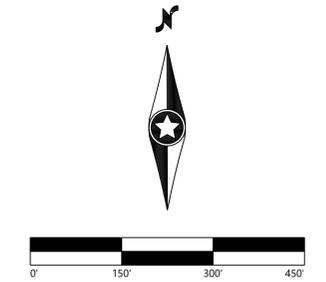
LEGEND:

- PROJECT BOUNDARY
- SECTION LINES
- RIGHT-OF-WAY LINES
- PARCEL LINES
- EASEMENT LINES
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. GRAVEL ROAD
- EX. UNPAVED ROAD CENTERLINE
- EX. CULVERT
- EX. OVERHEAD POWER
- EX. UNDERGROUND POWER
- EX. STREAM CHANNEL
- EX. WATER EDGE
- FEMA FLOOD ZONE
- PROPOSED SOLAR ARRAY
- PROPOSED ELECTRICAL EQUIPMENT
- PROPOSED MODULE SETBACK
- PROPOSED 16' ACCESS ROAD
- PROPOSED 20' SUBSTATION ACCESS ROAD
- PROPOSED LOW WATER CROSSING
- PROPOSED SECURITY FENCE
- PROPOSED LAYDOWN YARD
- PROPOSED O&M FACILITY
- PROPOSED SUBSTATION
- PROPOSED UNDERGROUND COLLECTION
- PROPOSED OVERHEAD POWER LINE
- PROPOSED INDEX CONTOUR
- PROPOSED INTERVAL CONTOUR
- PROPOSED DRAINTILE
- PROPOSED EARTHEN BERM WITH ROCK WEEPER
- PROPOSED PERMANENT BASIN LOCATION
- WATER LINE EASEMENT
- PROPOSED CONCRETE WASHOUT LOCATION
- PROPOSED DRAINAGE CROSSING LABEL
- PROPOSED SECURITY GATE LABEL

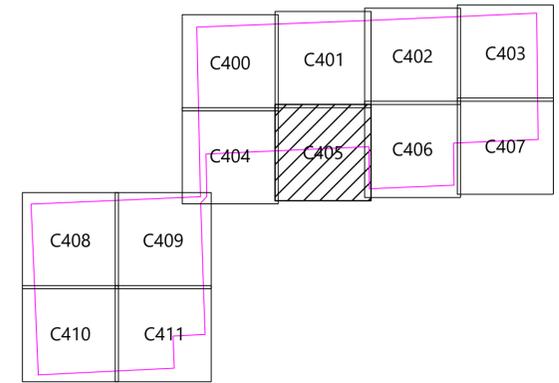
NOTES:

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SETBACKS TABLE	
FEATURE	DISTANCE (FT)
From Township Roads	75
Side	50
Rear	50
Right-of-way	100
Wetlands/Streams	50
Channel Ditch	50
Ex. Transmission Line	50



KEY MAP:



Harmony Solar ND, LLC
 Cass County, North Dakota

Site Plan - 6

Issued for Permit
 Not for Construction

DATE: 06/12/2024
 SHEET: C405
 REV: C

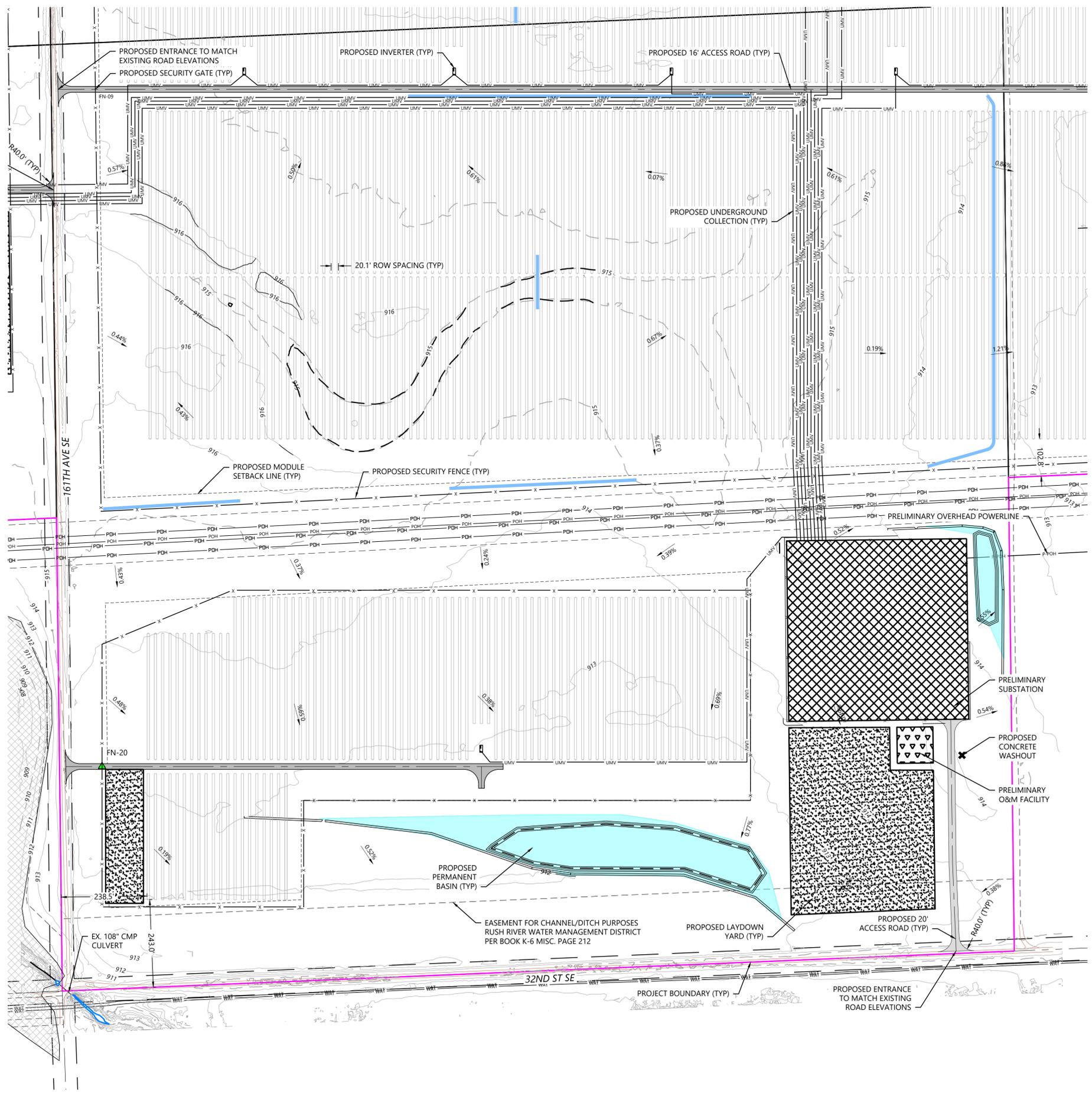
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8400 Normandale Lake Blvd, Suite 1200
 Bloomington, MN 55347

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	03/22/2024	Permit Plan - Revised Layout	AW	BV	BV
B	05/29/2024	Permit Plan - Revised Layout	AW	BV	BV
C	06/12/2024	Permit Plan - Revised Layout	AW	BV	BV



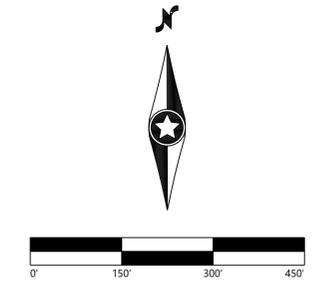
LEGEND:

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- SECTION LINES
- RIGHT-OF-WAY LINES
- PARCEL LINES
- EASEMENT LINES
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. GRAVEL ROAD
- EX. UNPAVED ROAD CENTERLINE
- EX. CULVERT
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- PROPOSED INTERVAL CONTOUR
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- PROPOSED CONCRETE WASHOUT LOCATION
- PROPOSED DRAINAGE CROSSING LABEL
- PROPOSED SECURITY GATE LABEL

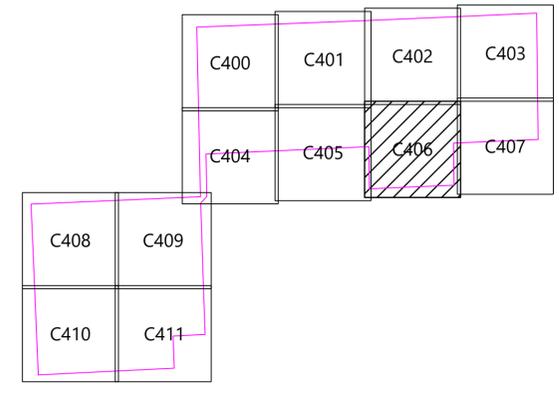
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SETBACKS TABLE	
FEATURE	DISTANCE (FT)
From Township Roads	75
Side	50
Rear	50
Right-of-way	100
Wetlands/Streams	50
Channel Ditch	50
Ex. Transmission Line	50



KEY MAP:



Harmony Solar ND, LLC

Cass County, North Dakota

Site Plan - 7

Issued for Permit
 Not for Construction

DATE: 06/12/2024
 SHEET: C406
 REV: C

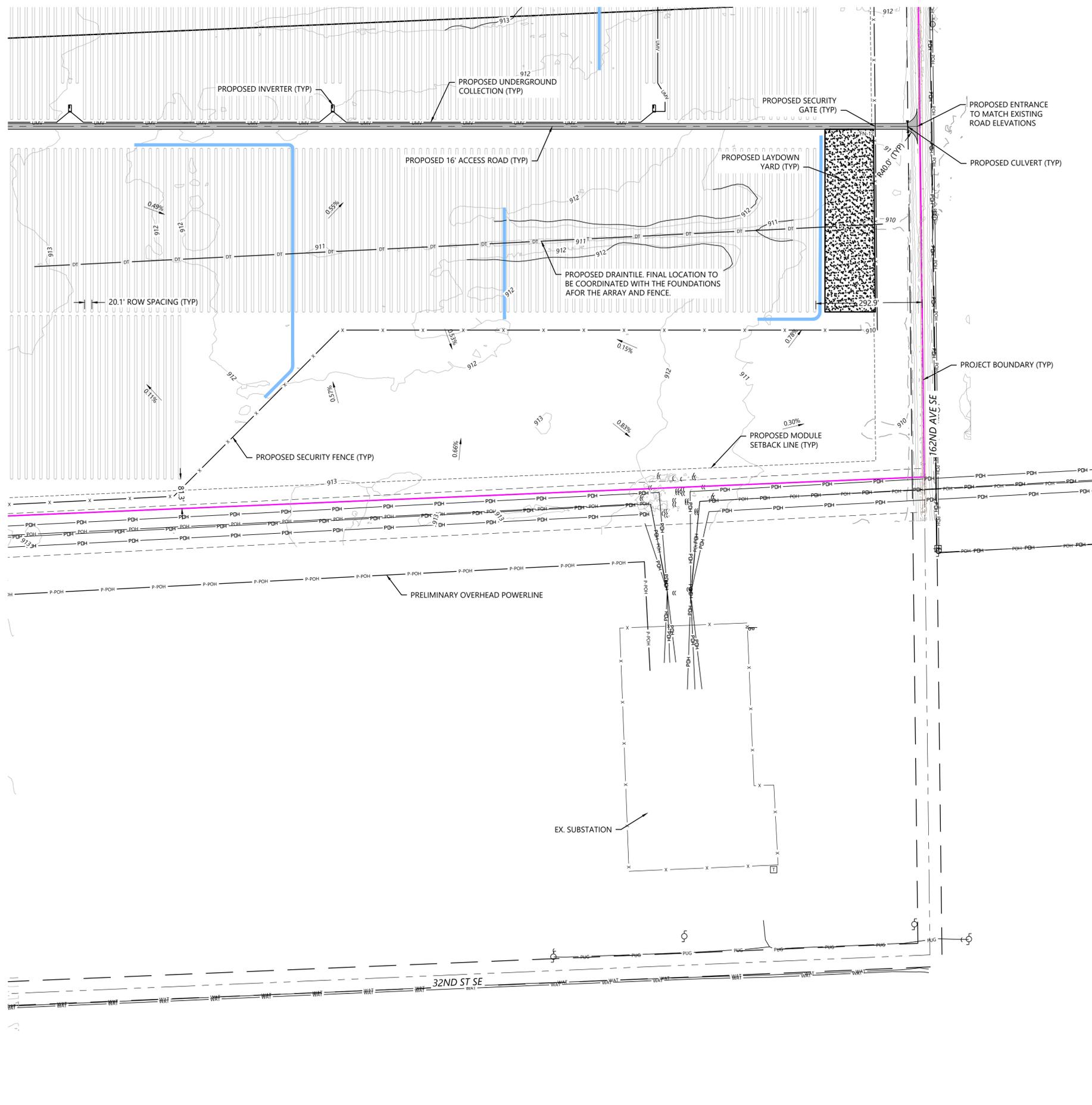
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8400 Normandale Lake Blvd, Suite 1200
 Bloomington, MN 55347

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	03/22/2024	Permit Plan - Revised Layout	AW	BV	BV
B	05/29/2024	Permit Plan - Revised Layout	AW	BV	BV
C	06/12/2024	Permit Plan - Revised Layout	AW	BV	BV



LEGEND:

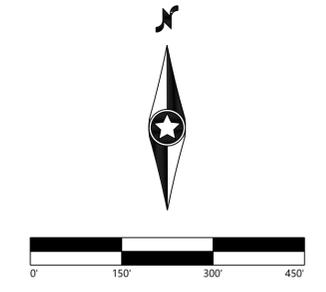
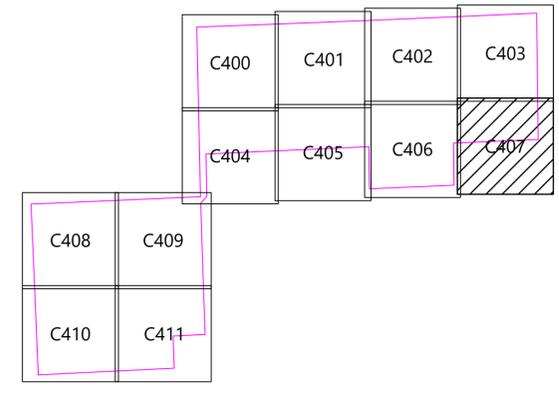
- PROJECT BOUNDARY
- SECTION LINES
- RIGHT-OF-WAY LINES
- PARCEL LINES
- EASEMENT LINES
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. GRAVEL ROAD
- EX. UNPAVED ROAD CENTERLINE
- EX. CULVERT
- EX. OVERHEAD POWER
- EX. UNDERGROUND POWER
- EX. STREAM CHANNEL
- EX. WATER EDGE
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- PROPOSED ELECTRICAL EQUIPMENT
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- PROPOSED SUBSTATION
- PROPOSED UNDERGROUND COLLECTION
- PROPOSED OVERHEAD POWER LINE
- PROPOSED INDEX CONTOUR
- PROPOSED INTERVAL CONTOUR
- PROPOSED DRAINTILE
- PROPOSED EARTHEN BERM WITH ROCK WEEPER
- PROPOSED PERMANENT BASIN LOCATION
- WATER LINE EASEMENT
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- PROPOSED DRAINAGE CROSSING LABEL
- PROPOSED SECURITY GATE LABEL
- DC-XX
- FN-XX

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SETBACKS TABLE	
FEATURE	DISTANCE (FT)
From Township Roads	75
Side	50
Rear	50
Right-of-way	100
Wetlands/Streams	50
Channel Ditch	50
Ex. Transmission Line	50

KEY MAP:



Harmony Solar ND, LLC
 Cass County, North Dakota

Site Plan - 8

Issued for Permit
 Not for Construction

DATE: 06/12/2024 REV: C
 SHEET: C407

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PREPARED FOR:



8400 Normandale Lake Blvd, Suite 1200
 Bloomington, MN 55347

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	03/22/2024	Permit Plan - Revised Layout	AW	BV	BV
B	05/29/2024	Permit Plan - Revised Layout	AW	BV	BV
C	06/12/2024	Permit Plan - Revised Layout	AW	BV	BV

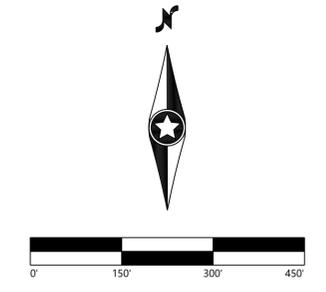
LEGEND:

- PROJECT BOUNDARY
- SECTION LINES
- RIGHT-OF-WAY LINES
- PARCEL LINES
- EASEMENT LINES
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. GRAVEL ROAD
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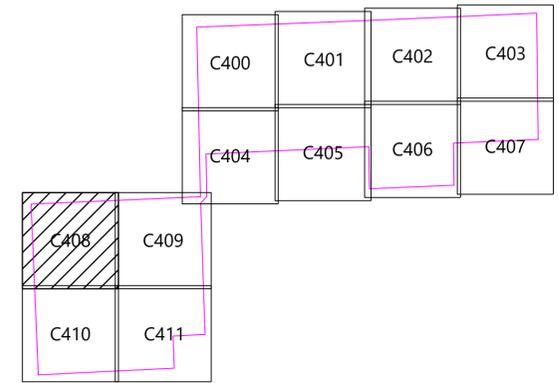
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SETBACKS TABLE	
FEATURE	DISTANCE (FT)
From Township Roads	75
Side	50
Rear	50
Right-of-way	100
Wetlands/Streams	50
Channel Ditch	50
Ex. Transmission Line	50



KEY MAP:



Harmony Solar ND, LLC

Cass County, North Dakota

Site Plan - 9

Issued for Permit
 Not for Construction

DATE: 06/12/2024
 SHEET: C408
 REV: C



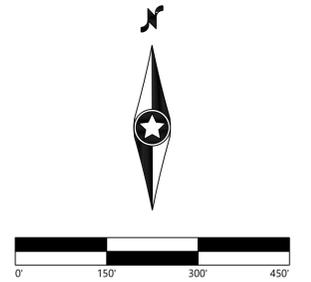
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 Sheet: 9 of 9
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 Author: jk
 Date: 6/12/2024 11:46:11 AM
 Description: Harmony Solar ND, LLC
 Project: 2024-06-12-2024



8400 Normandale Lake Blvd, Suite 1200
 Bloomington, MN 55347

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	03/22/2024	Permit Plan - Revised Layout	AW	BV	BV
B	05/29/2024	Permit Plan - Revised Layout	AW	BV	BV
C	06/12/2024	Permit Plan - Revised Layout	AW	BV	BV



Harmony Solar ND, LLC

Cass County, North Dakota

Site Plan - 10

Issued for Permit
 Not for Construction

DATE: 06/12/2024
 SHEET: C409
 REV: C



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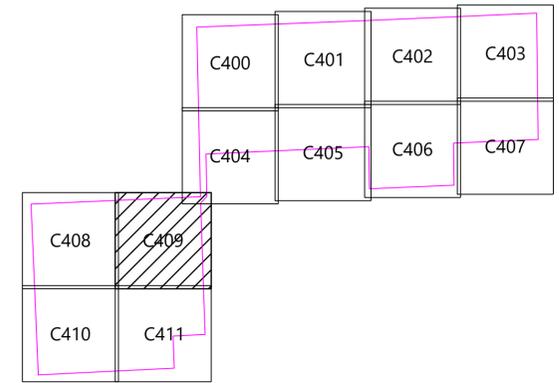
- PROJECT BOUNDARY
- SECTION LINES
- RIGHT-OF-WAY LINES
- PARCEL LINES
- EASEMENT LINES
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. GRAVEL ROAD
- EX. UNPAVED ROAD CENTERLINE
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SETBACKS TABLE	
FEATURE	DISTANCE (FT)
From Township Roads	75
Side	50
Rear	50
Right-of-way	100
Wetlands/Streams	50
Channel Ditch	50
Ex. Transmission Line	50

KEY MAP:



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8400 Normandale Lake Blvd, Suite 1200
 Bloomington, MN 55347

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	03/22/2024	Permit Plan - Revised Layout	AW	BV	BV
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C	06/12/2024	Permit Plan - Revised Layout	AW	BV	BV

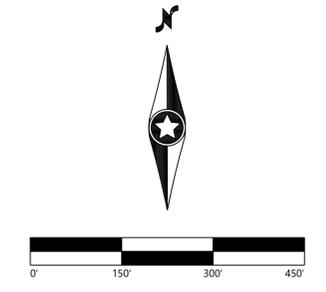
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- PROJECT BOUNDARY
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- PARCEL LINES
- EASEMENT LINES
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
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- EX. UNPAVED ROAD CENTERLINE
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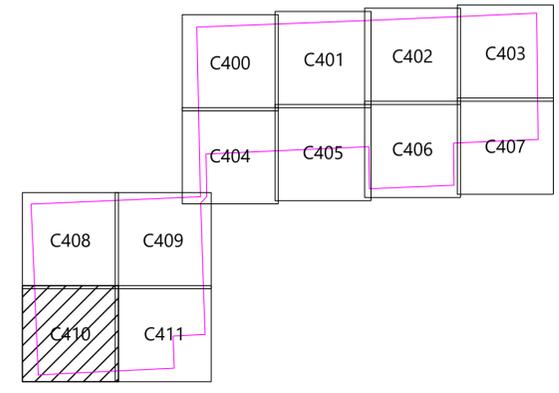
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SETBACKS TABLE	
FEATURE	DISTANCE (FT)
From Township Roads	75
Side	50
Rear	50
Right-of-way	100
Wetlands/Streams	50
Channel Ditch	50
Ex. Transmission Line	50



KEY MAP:



Harmony Solar ND, LLC

Cass County, North Dakota

Site Plan - 11

Issued for Permit
 Not for Construction

DATE: 06/12/2024 REV: C
 SHEET: C410



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8400 Normandale Lake Blvd, Suite 1200
 Bloomington, MN 55347

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	03/22/2024	Permit Plan - Revised Layout	AW	BV	BV
B	05/29/2024	Permit Plan - Revised Layout	AW	BV	BV
C	06/12/2024	Permit Plan - Revised Layout	AW	BV	BV



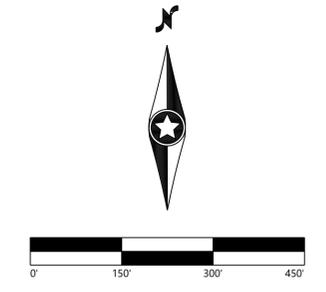
LEGEND:

- PROJECT BOUNDARY
- SECTION LINES
- RIGHT-OF-WAY LINES
- PARCEL LINES
- EASEMENT LINES
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. GRAVEL ROAD
- EX. UNPAVED ROAD CENTERLINE
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- PROPOSED PERMANENT BASIN LOCATION
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SETBACKS TABLE	
FEATURE	DISTANCE (FT)
From Township Roads	75
Side	50
Rear	50
Right-of-way	100
Wetlands/Streams	50
Channel Ditch	50
Ex. Transmission Line	50



KEY MAP:



Harmony Solar ND, LLC

Cass County, North Dakota

Site Plan - 12

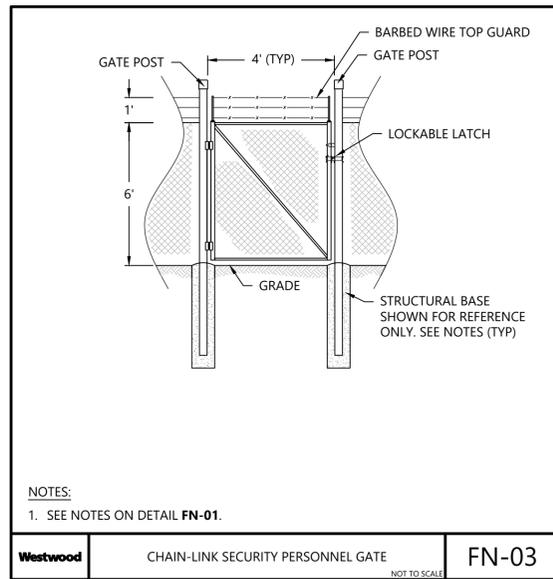
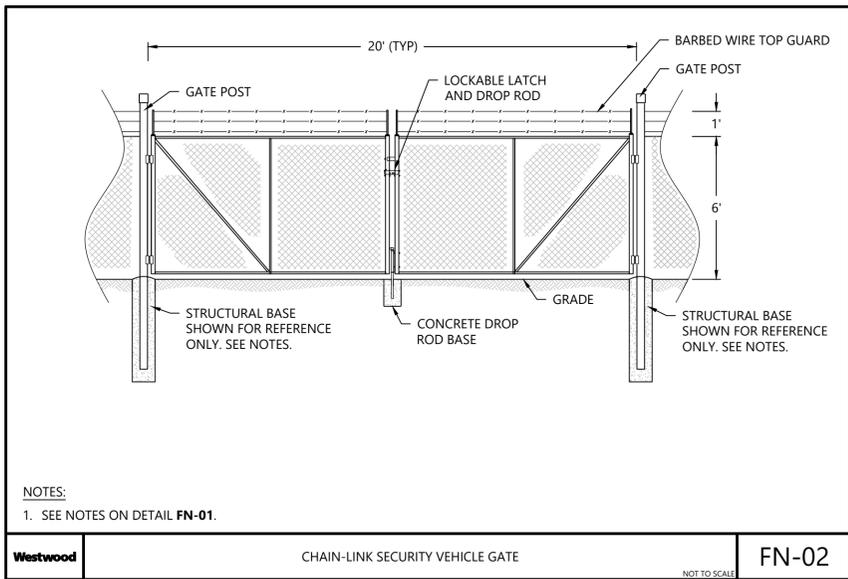
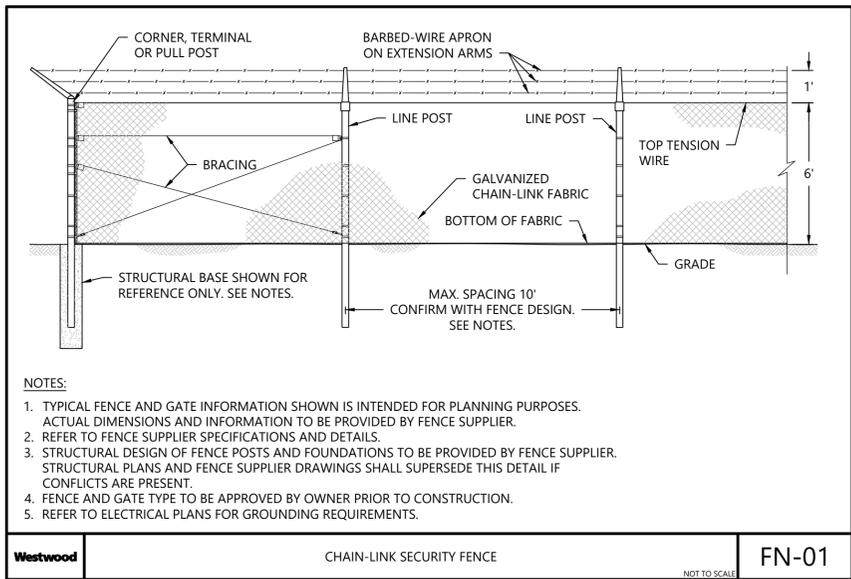
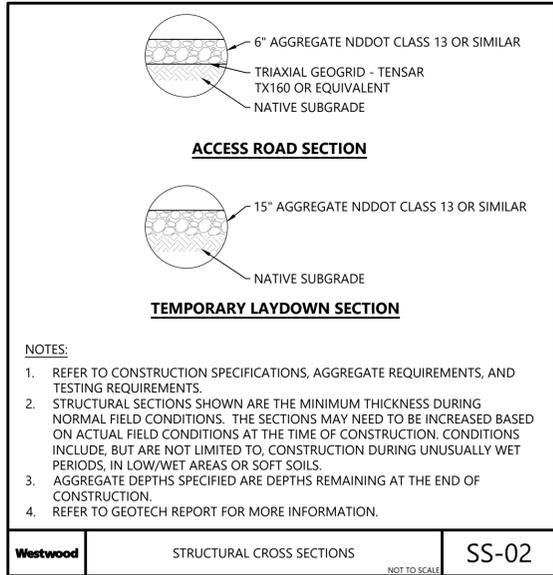
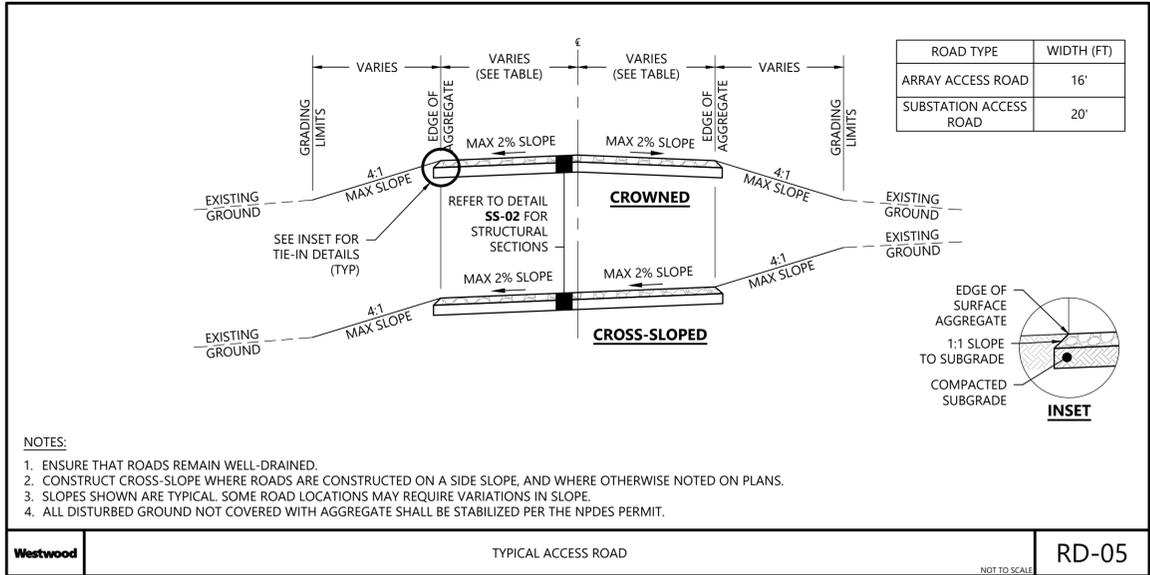
Issued for Permit
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DATE: 06/12/2024 REV: C
 SHEET: C411

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REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	03/22/2024	Permit Plan - Revised Layout	AW	BV	BV
B	05/29/2024	Permit Plan - Revised Layout	AW	BV	BV
C	06/12/2024	Permit Plan - Revised Layout	AW	BV	BV



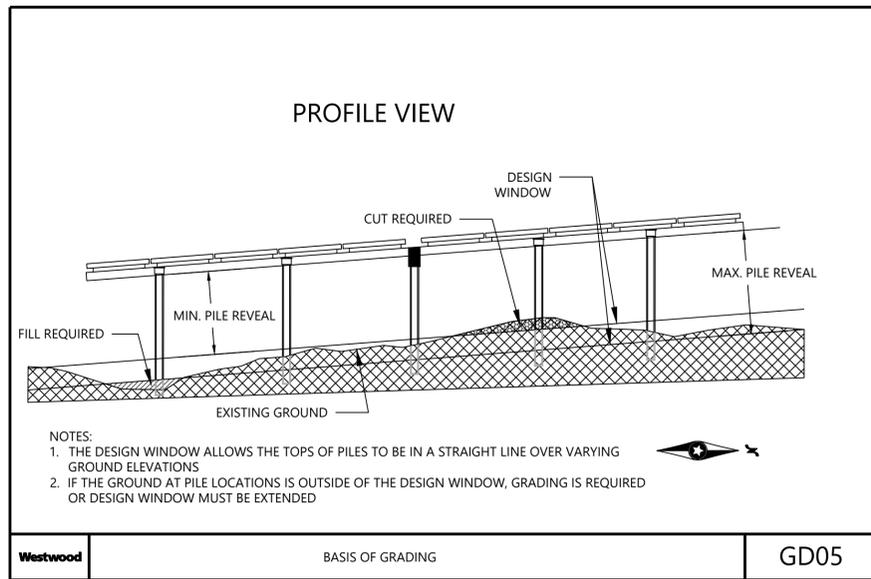
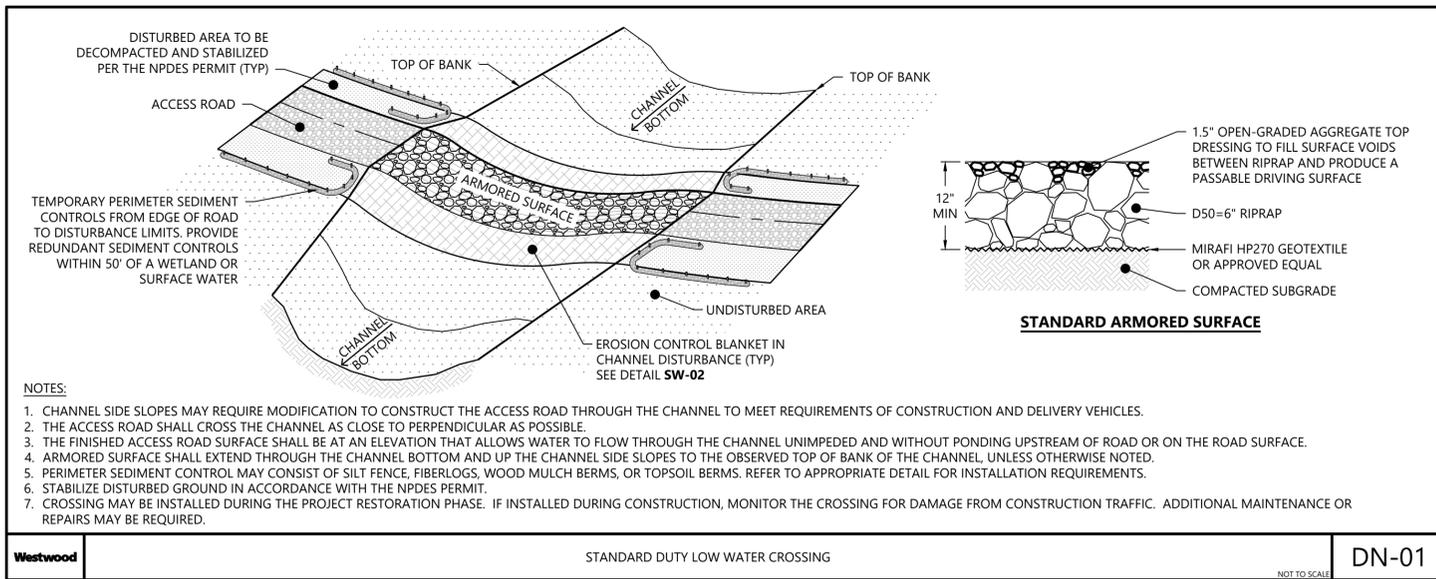
Harmony Solar ND, LLC
 Cass County, North Dakota

Construction Details

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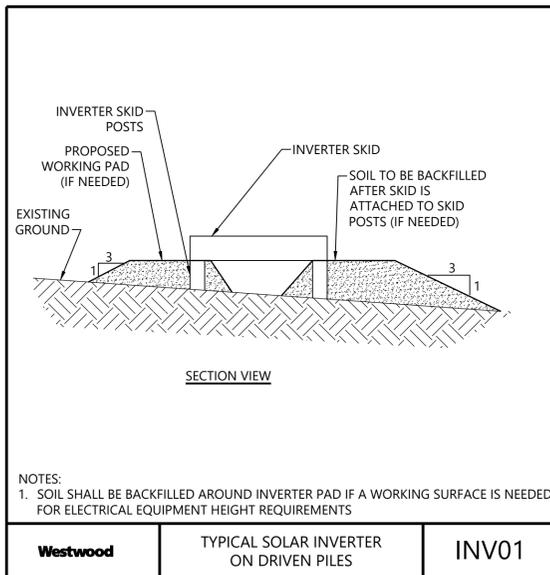
DATE: 06/12/2024
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REVISIONS:			
#	DATE	COMMENT	BY
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B	05/29/2024	Permit Plan - Revised Layout	AW BV BV
C	06/12/2024	Permit Plan - Revised Layout	AW BV BV

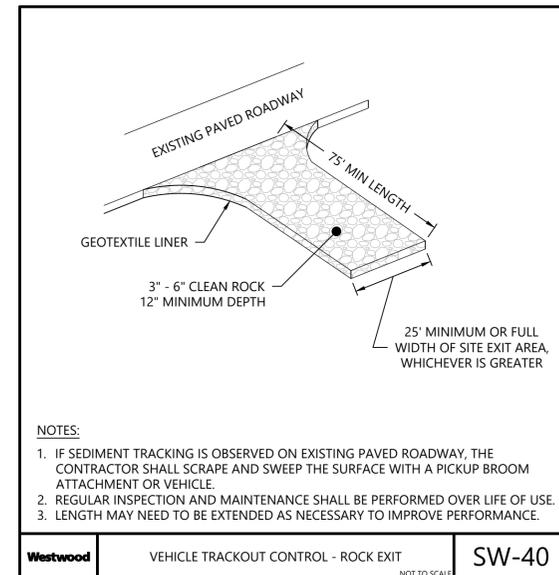


Westwood STANDARD DUTY LOW WATER CROSSING DN-01 NOT TO SCALE

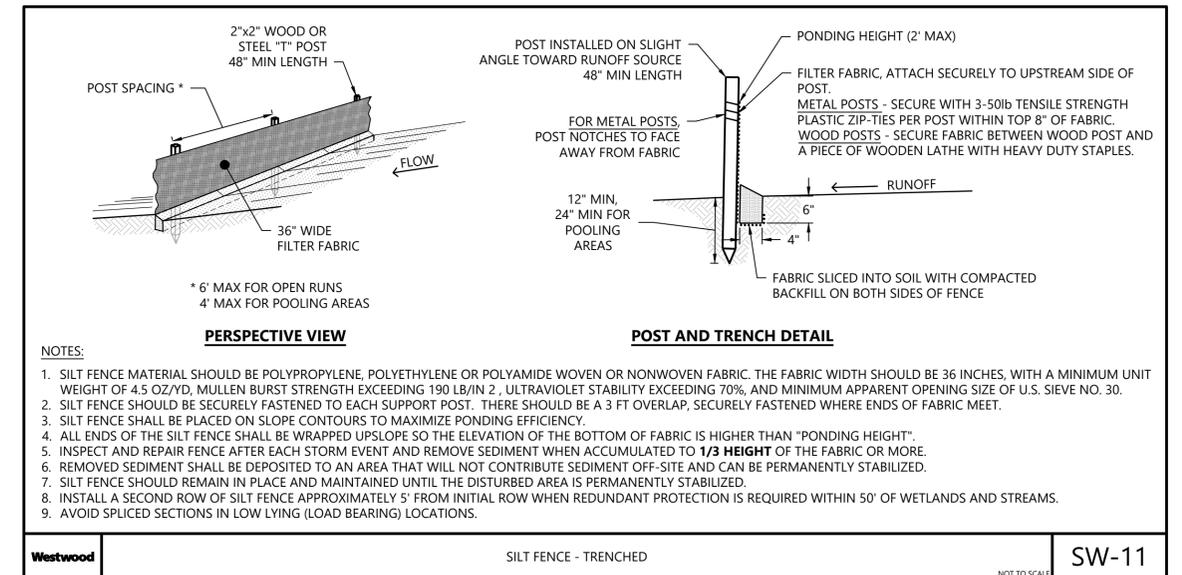
Westwood BASIS OF GRADING GD05



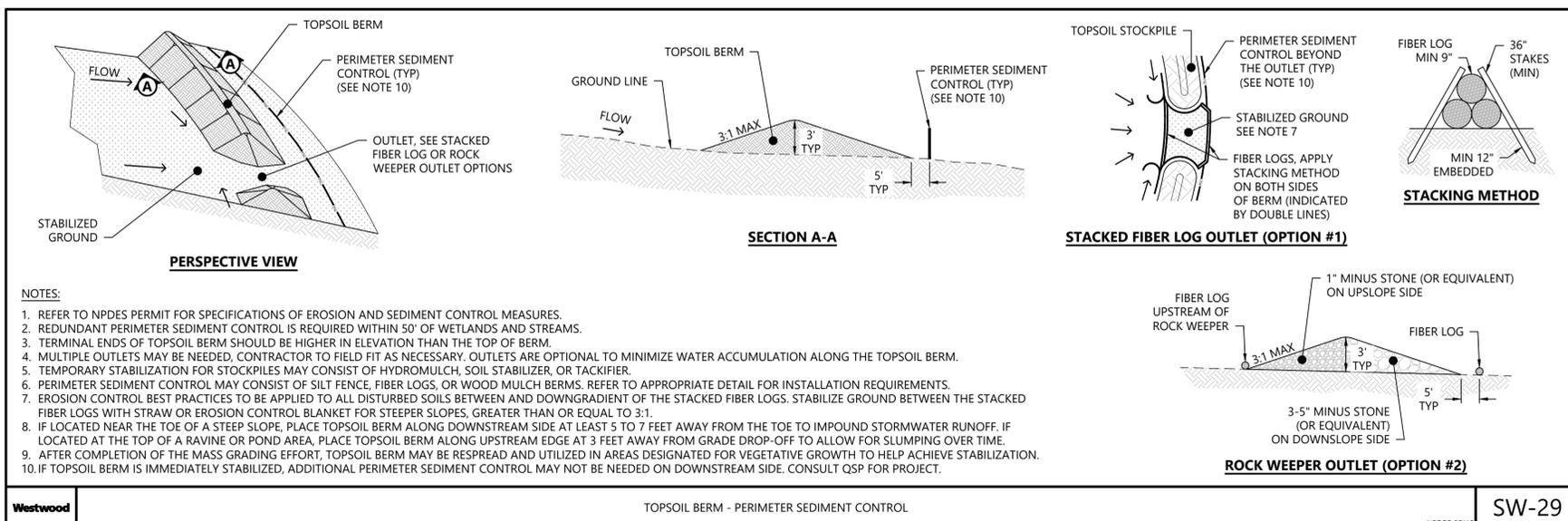
Westwood TYPICAL SOLAR INVERTER ON DRIVEN PILES INV01



Westwood VEHICLE TRACKOUT CONTROL - ROCK EXIT SW-40 NOT TO SCALE



Westwood SILT FENCE - TRENCHED SW-11 NOT TO SCALE



Westwood TOPSOIL BERM - PERIMETER SEDIMENT CONTROL SW-29 NOT TO SCALE

Harmony Solar ND, LLC
 Cass County, North Dakota

Construction Details

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DATE:	06/12/2024	REV:	
SHEET:	C501		C