

Appendix B

Site Plan

Lake Charlotte Solar Facility and Battery Energy Storage System
Joint Site Permits Application
June 2025
MPUC Docket Nos. IP-7159/GS-25-206 and IP-7159/ESS-25-205

Lake Charlotte Solar Project

Martin County, Minnesota

Civil Permitting Plans

PREPARED FOR:

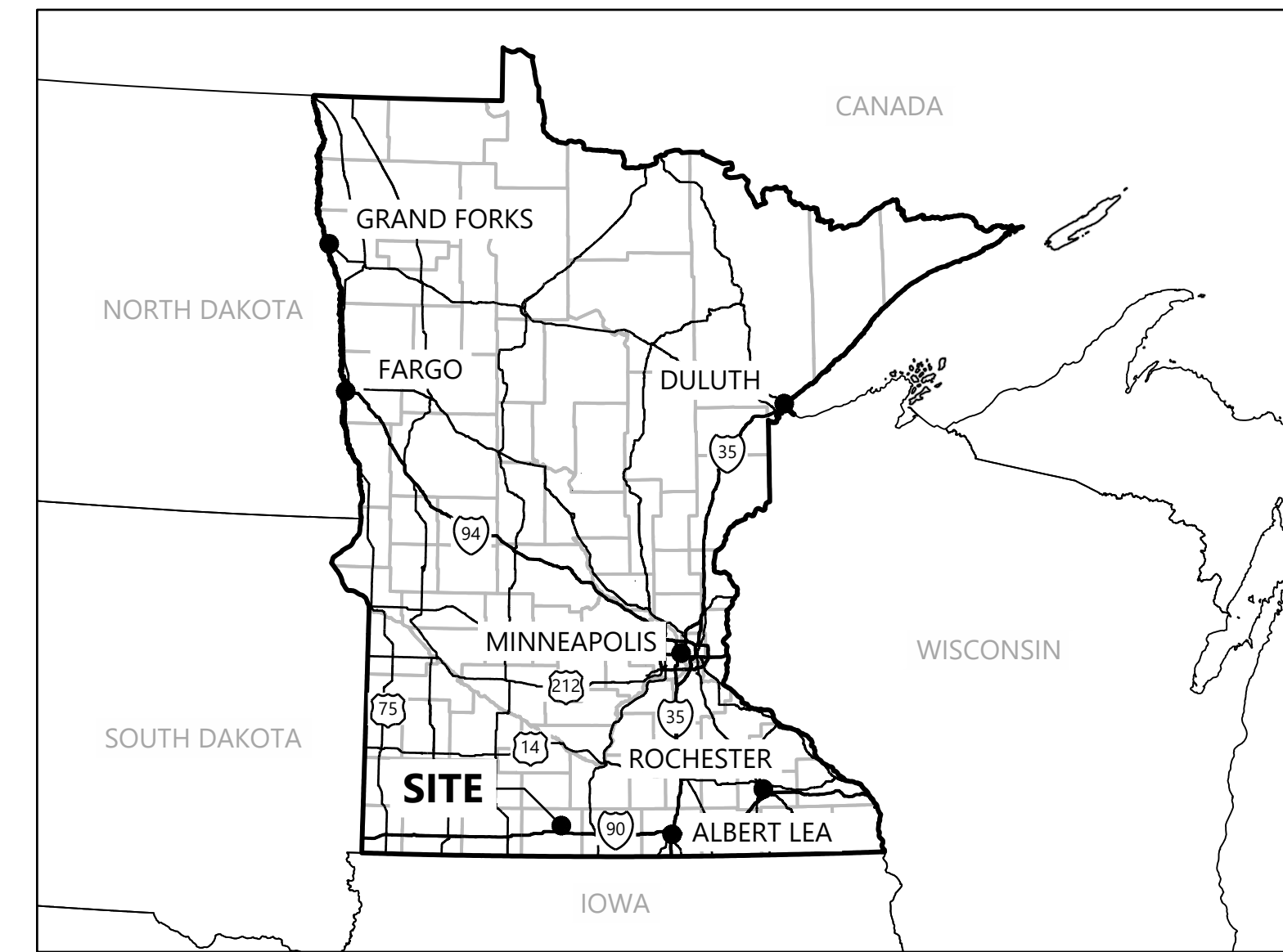


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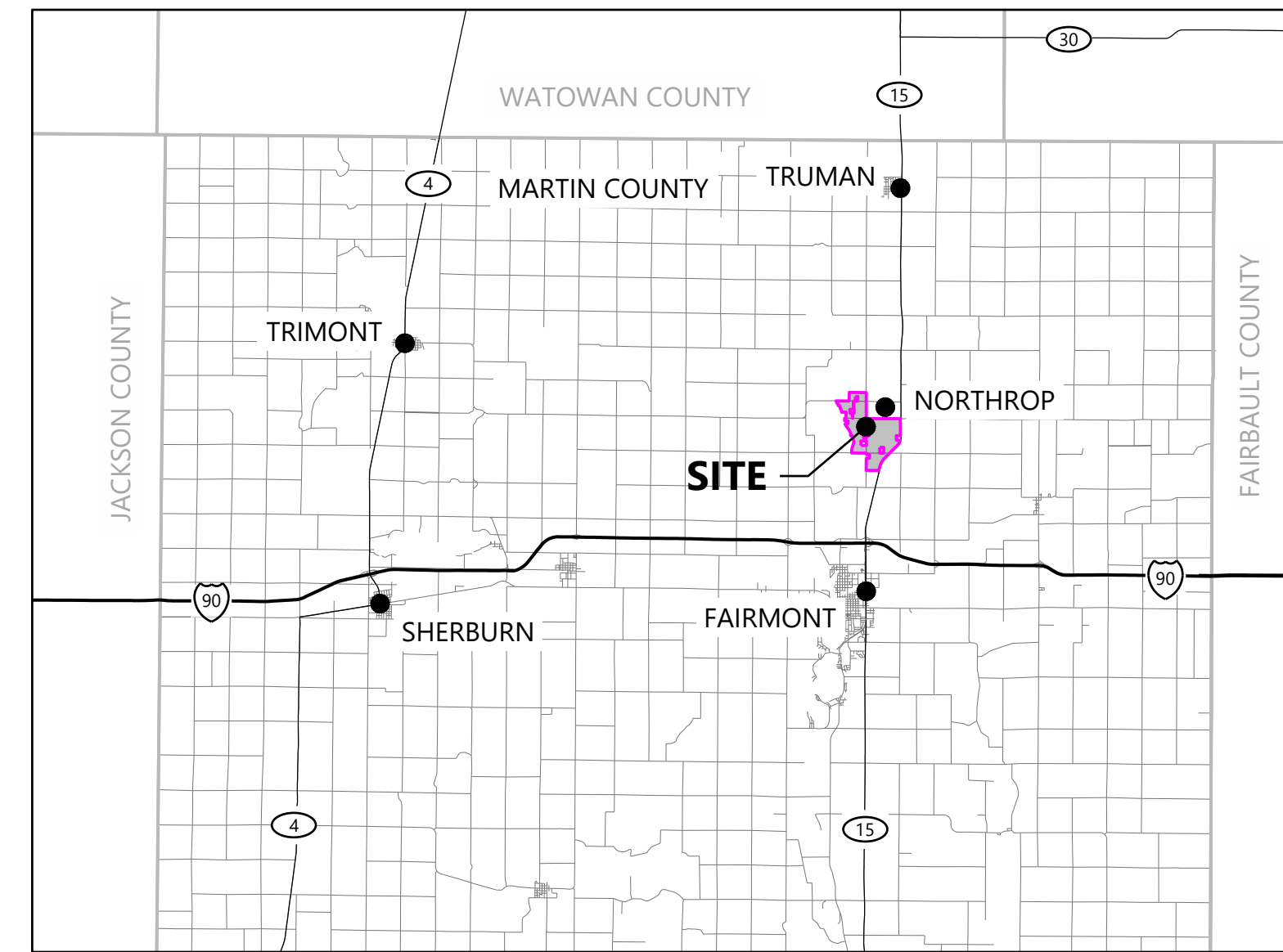
REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	03/03/2025	Permit Plans	AW	BV	BV
B	03/12/2025	Permit Plans	AW	BV	BV
C	03/28/2025	Permit Plans with BESS	AW	BV	BV

REGIONAL MAP



VICINITY MAP



DATA SET INFORMATION			
Coordinate System	Minnesota South NAD83 (2011) SPCS US Feet		
BASE FILE	FILE NAME / NOTES	PROVIDER	DATE
AERIAL IMAGE	20250114_MN_NAIP_DL.jp2	NAIP	1/14/2025
LAND CONTROL/PLANIMETRICS	LakeCharlotte_Boundary_20250305.kml	National Grid	3/6/2025
TOPOGRAPHY	USGS_LPC_MN_RiverEast_2023_MKP_dot20_2.txt	National Map	1/13/2025
BESS LAYOUT	*	*	*
ELECTRICAL COLLECTION DESIGN	0057352E-WIRE.dwg	Westwood	3/14/2025
GEN-TIE	LakeCharlotte_InterconnectionApp.kmz	National Grid	1/8/2025
STREAMS/WETLANDS	20221109_LakeCharlotte_Wetland_NR_FieldSurveys.kmz	National Grid	1/08/2025
	NHDFlowline.shp	National Map	1/14/2025
	NWI_Wetlands.shp	National Map	1/14/2025
CULTURAL RESOURCES	LakeCharlotteArchaeologicalResults_20230611.kmz	National Grid	1/8/2025

CONTACT INFORMATION			
PROJECT ROLE	CONTACT NAME	COMPANY	PHONE
OWNER/DEVELOPER	MARTA LASCH	NATIONAL GRID	612-259-3093
PROJECT MANAGER	LUKE SPENCER	WESTWOOD	608-821-6600
CIVIL LEAD ENGINEER	BRETT VANDERWIEL	WESTWOOD	952-906-7431

Lake Charlotte Solar Project
Martin County, Minnesota

Cover

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DATE: 03/28/2025
SHEET: C001
REV: C

2/20/25 10:51 AM C:\Users\jvanderwiel\OneDrive\Documents\LakeCharlotte\20250305\20250305_1051 AM.dwg Westwood

Sheet List Table	
SHEET NUMBER	SHEET TITLE
C001	Cover
C002	Sheet Index
C100	Existing Conditions - 1
C101	Existing Conditions - 2
C102	Existing Conditions - 3
C103	Existing Conditions - 4
C200	Overall Site Plan
C201	BESS Proposed Layout
C300	Civil Site Plan - 1
C301	Civil Site Plan - 2
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C320	Civil Site Plan - 21
C321	Civil Site Plan - 22
C322	Civil Site Plan - 23
C700	Construction Details
C701	Construction Details
C702	Construction Details
L100	Landscape Screening Notes & Details

Westwood

Phone (952) 937-5150 12701 Whitewater Drive, Suite #300
 Toll Free (888) 937-5150 Minnetonka MN, 55343
 westwoodps.com

Westwood Professional Services, Inc.

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Lake Charlotte Solar Project

Martin County, Minnesota

Sheet Index

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 SHEET: C002
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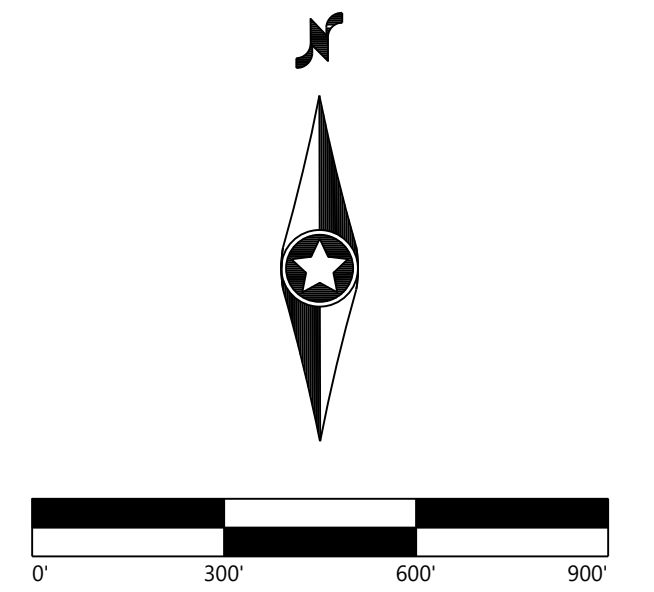
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Lake Charlotte Solar Project

Martin County, Minnesota

Existing Conditions - 1

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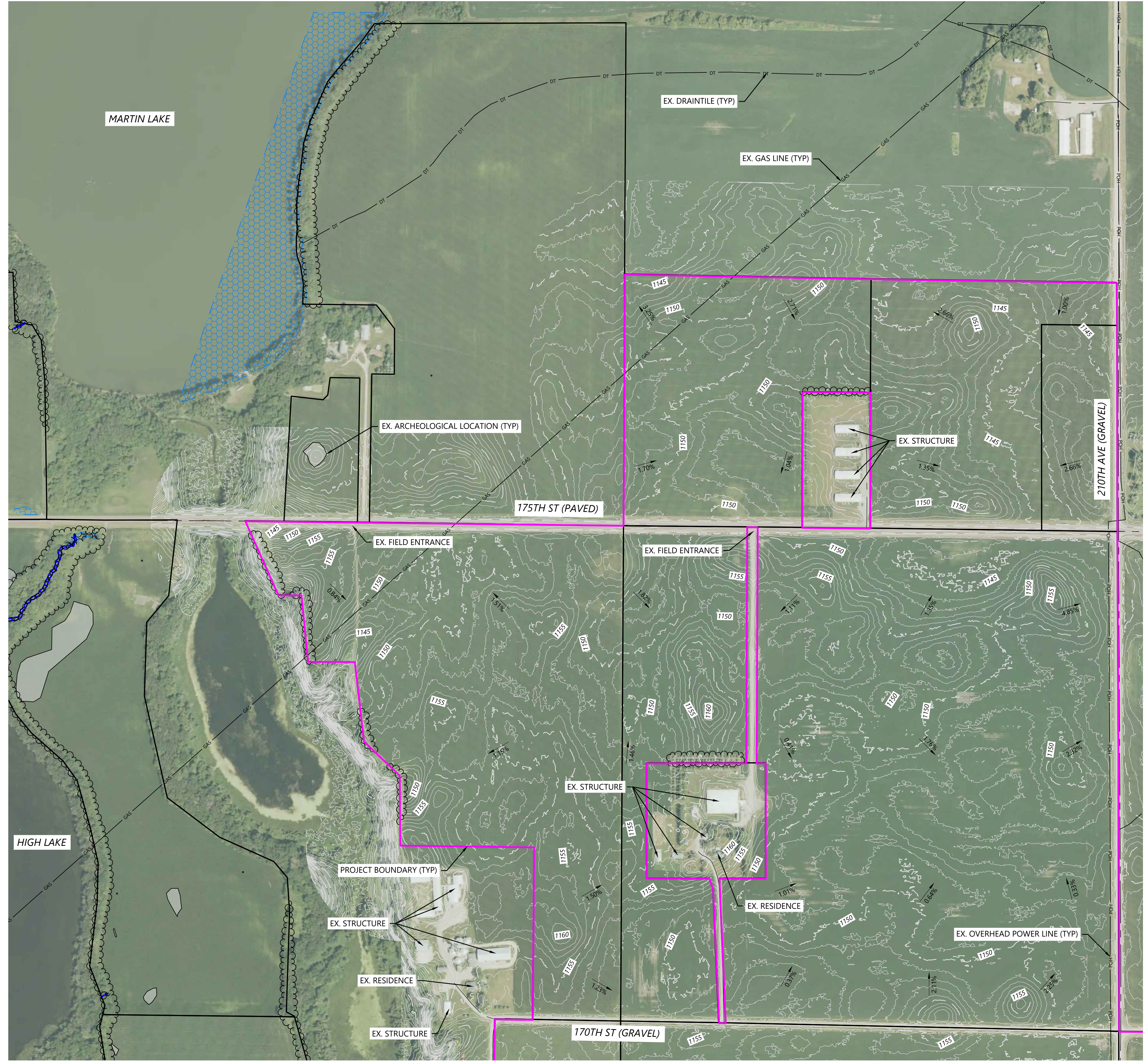
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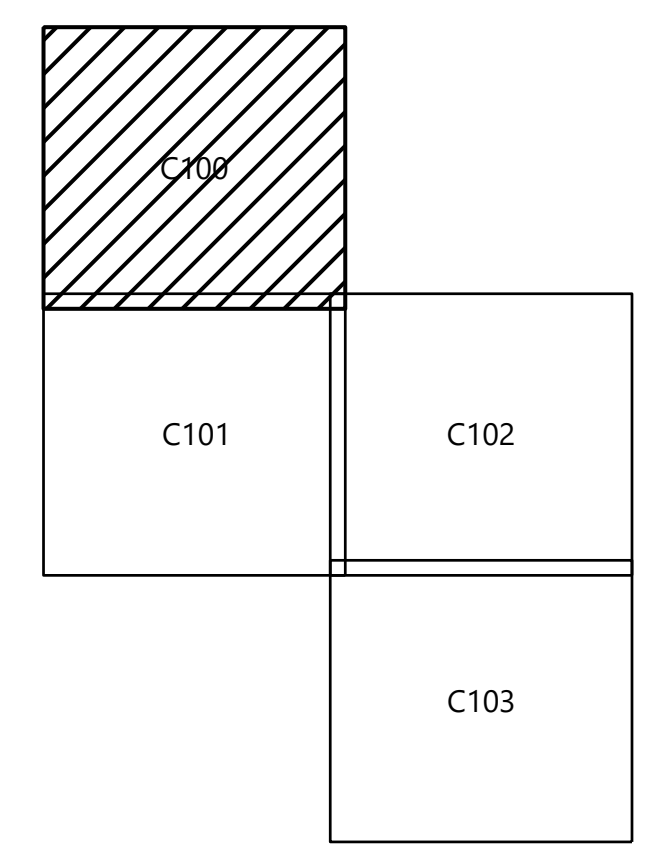
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- EX. PARCEL LINE
- EX. INDEX CONTOUR
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- EX. OVERHEAD POWER
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- EX. DRAINTILE
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- EX. WETLAND
- EX. ARCHEOLOGICAL LOCATION
- EX. DRAINTILE PROPOSED TO BE ABANDONED

NOTES:

1. EXISTING FEATURES SHOWN ARE A COMBINATION OF CLIENT PROVIDED DATA AND PUBLICLY AVAILABLE DATA. DESIGN SUBJECT TO CHANGE.



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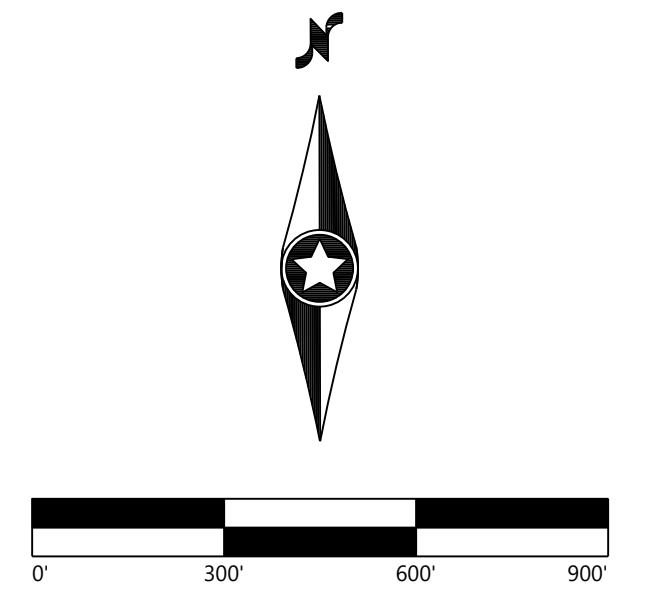
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Lake Charlotte Solar Project

Martin County, Minnesota

Existing Conditions - 2

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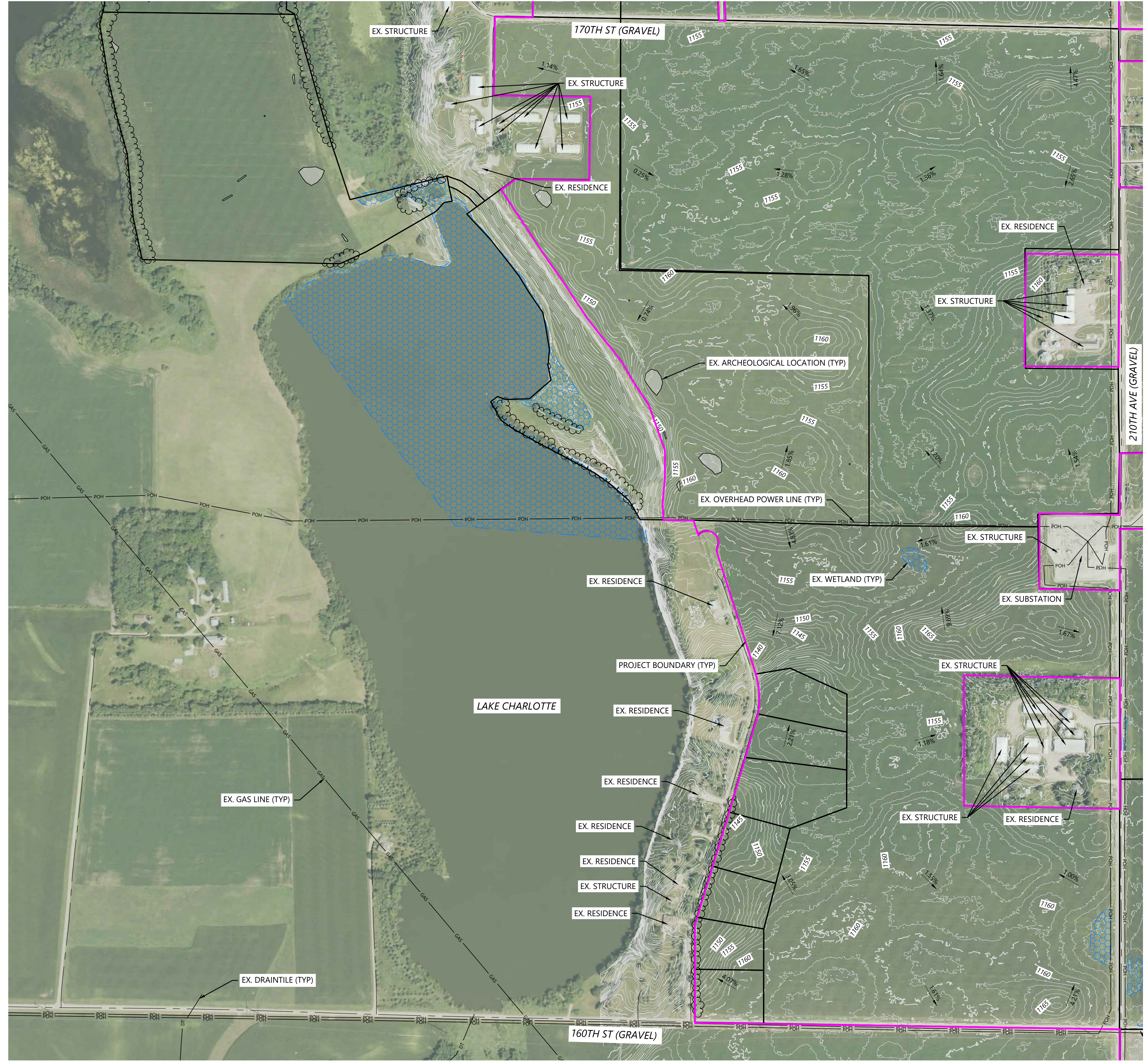
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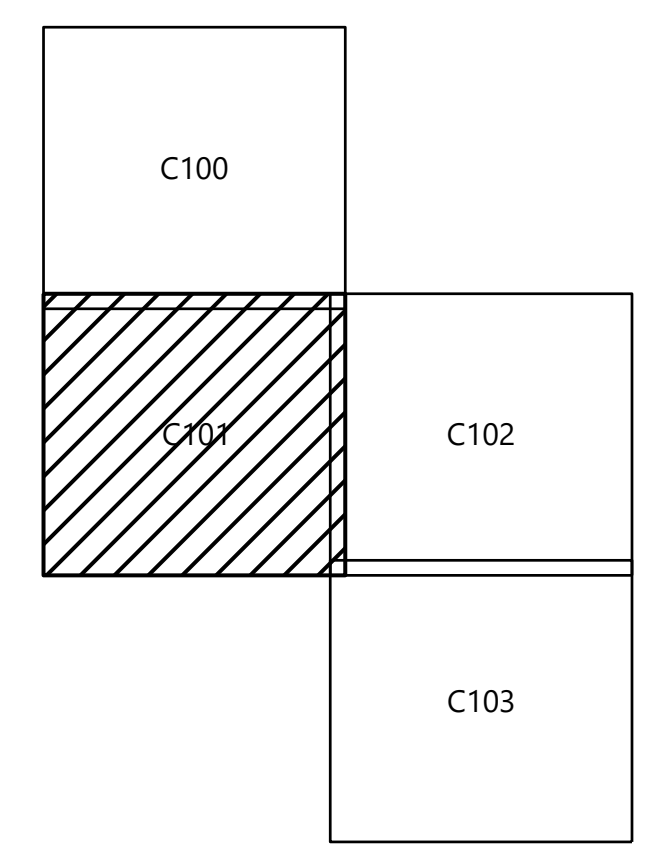
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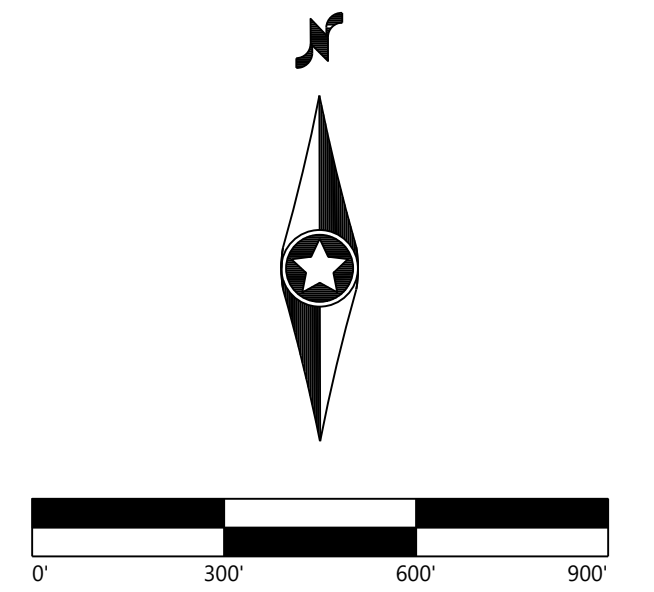
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Lake Charlotte Solar Project

Martin County, Minnesota

Existing Conditions - 4

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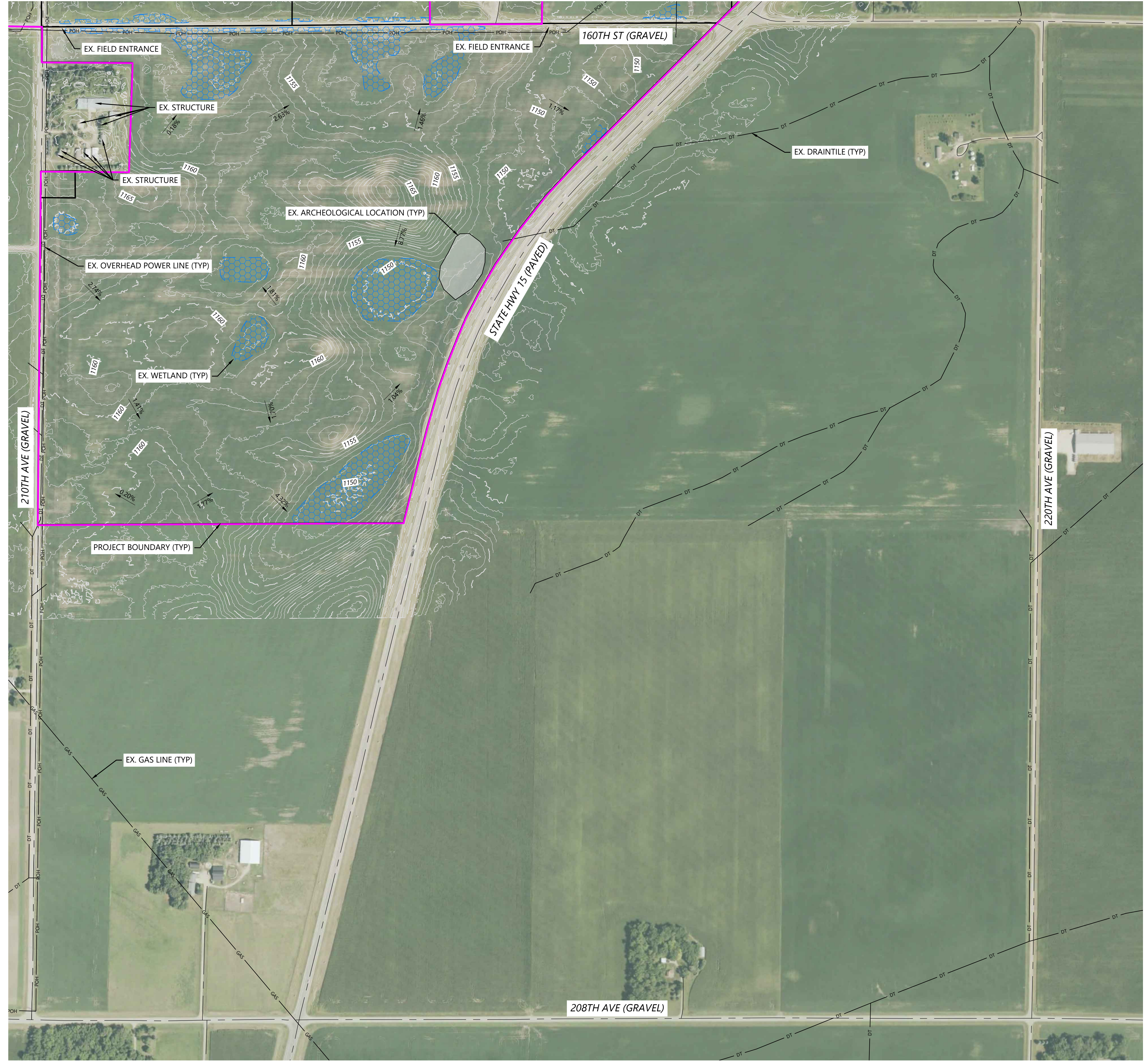
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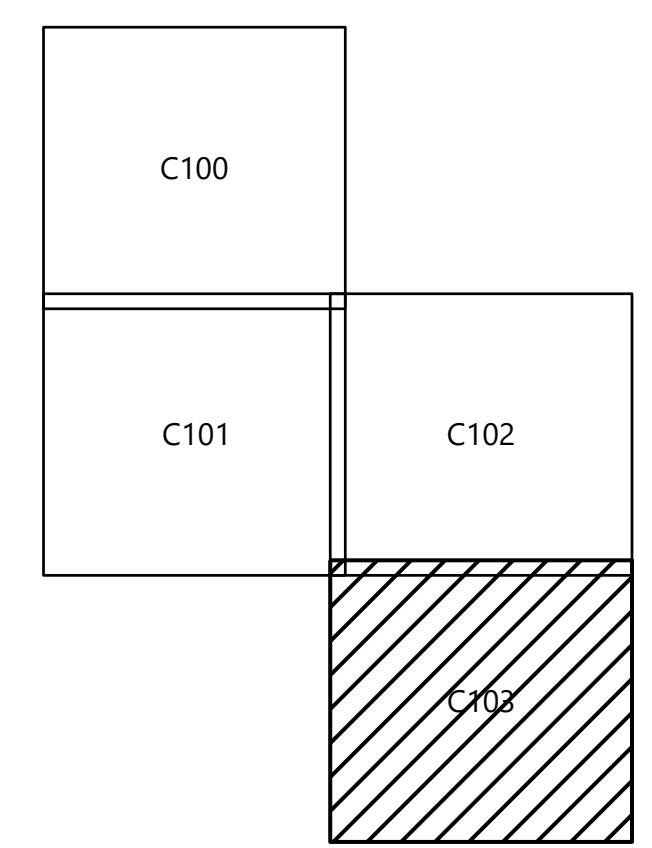
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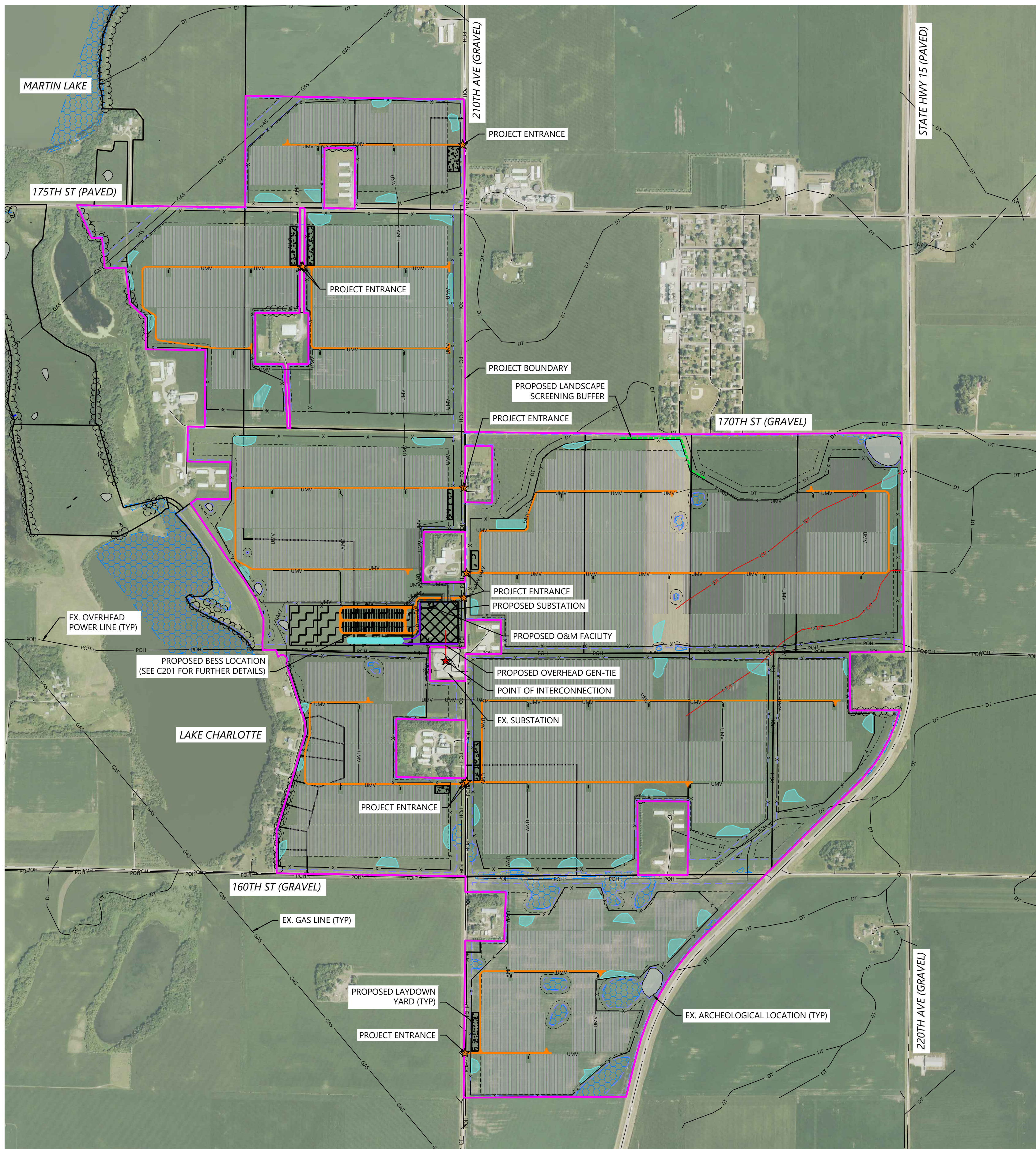
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- PROPOSED OVERHEAD GEN-TIE
- POINT OF INTERCONNECTION
- PROPOSED MODULE SETBACK
- PROPOSED SECURITY FENCE SETBACK
- PROPOSED DRAINAGE SWALE
- PROPOSED ACCESS ROAD
- PROPOSED SECURITY FENCE
- PROPOSED LAYDOWN YARD
- PROPOSED SUBSTATION
- PROPOSED BESS
- PROPOSED O&M FACILITY
- PROPOSED BASIN LOCATION
- PROJECT ENTRANCE
- PROPOSED LANDSCAPE SCREENING BUFFER

NOTES:

- EQUIPMENT SHOWN WITHIN THIS PLAN IS FOR REFERENCE ONLY AND MAY CHANGE WITH FURTHER DESIGN.
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Project Acreage

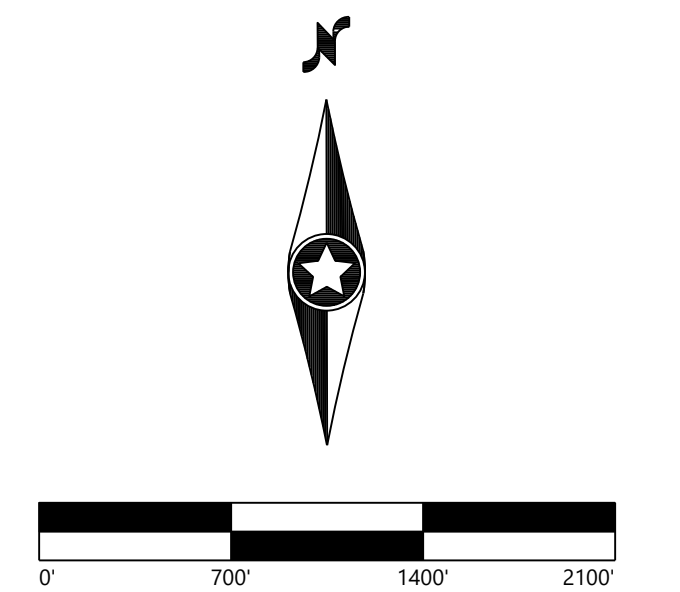
Approximate Fence Area	1,005 Acres
Approximate Fence Length	93,900 LF
Approximate Access Road Length	43,375 LF
Approximate Substation with O&M	5.0 Acres
Approximate BESS	16.0 Acres
Approximate Laydown Yard, Combined	5.5 Acres

Project Setbacks Table

Feature	Required Distance (FT)	Design Distance (FT)
Project Boundary - Agricultural Zoning:		
Front Yard (Measured from Road Centerline)	200	200
Rear Yard	30	53
Side Yard	30	41
Project Boundary - Shoreline Zoning:		
Rear Yard	75	78
Side Yard	40	134
Non-Participating Residence	200	203
Lakes	200	316
Draintile	75	86
Proposed Security Fence (Measured from Parcel Line)	20	21

Inverter Distance Table

Distance from Nearest Home (FT)	Distance from Property Line
352	69



Lake Charlotte Solar Project

Martin County, Minnesota

Overall Site Plan

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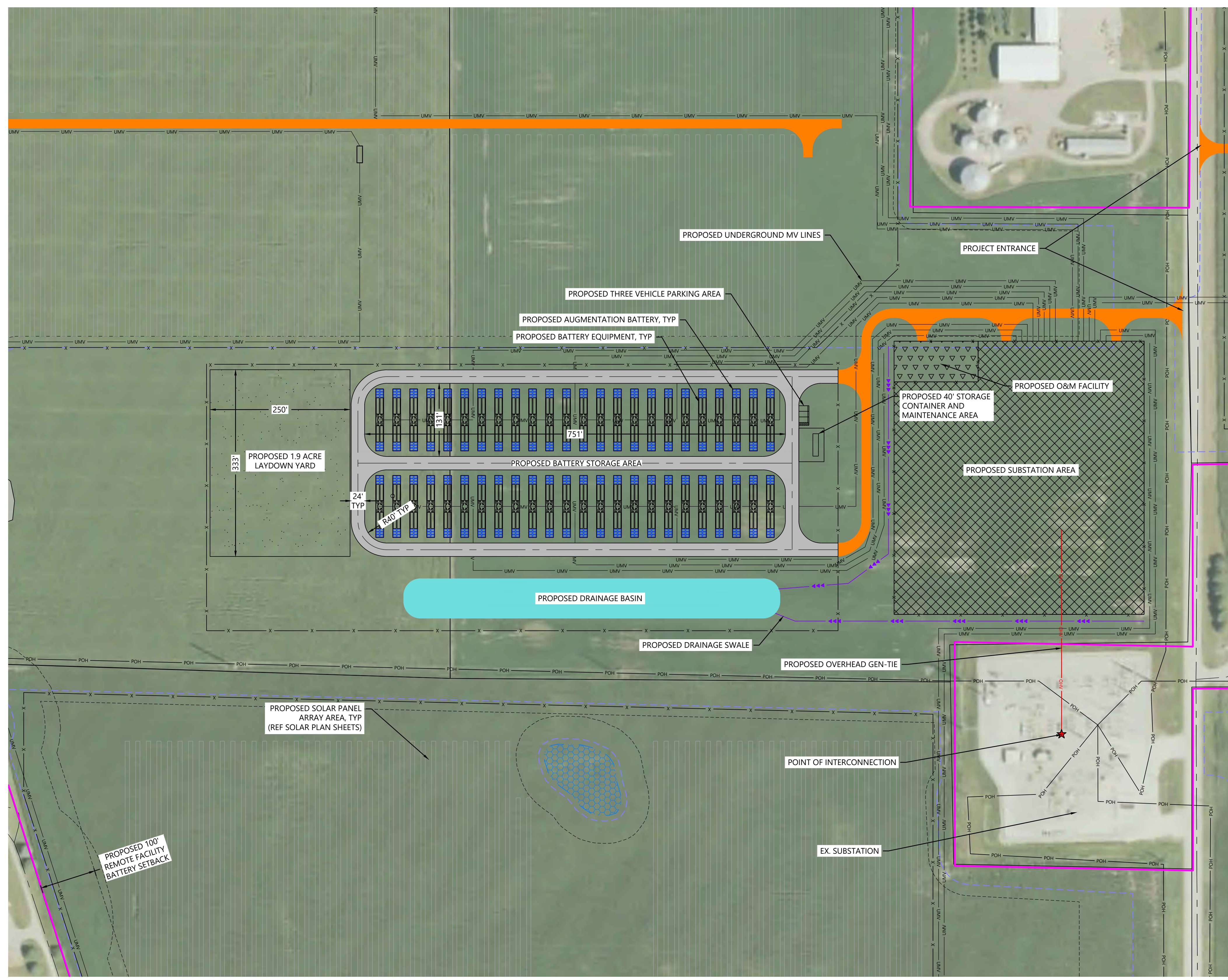
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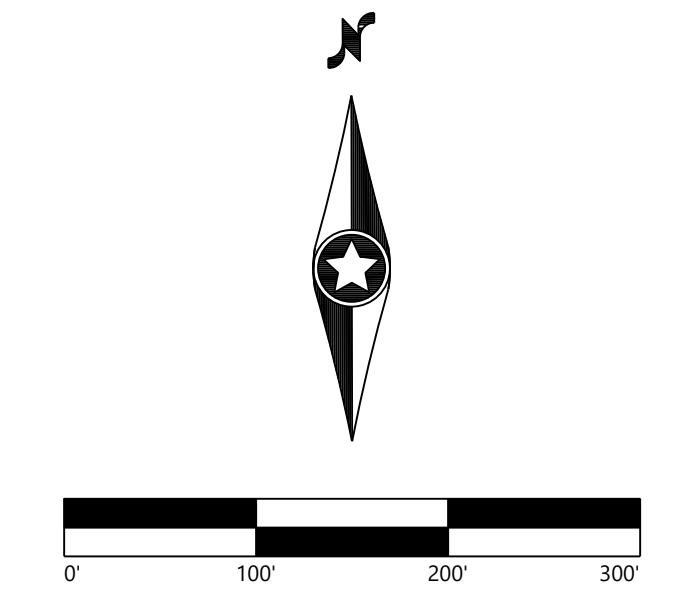
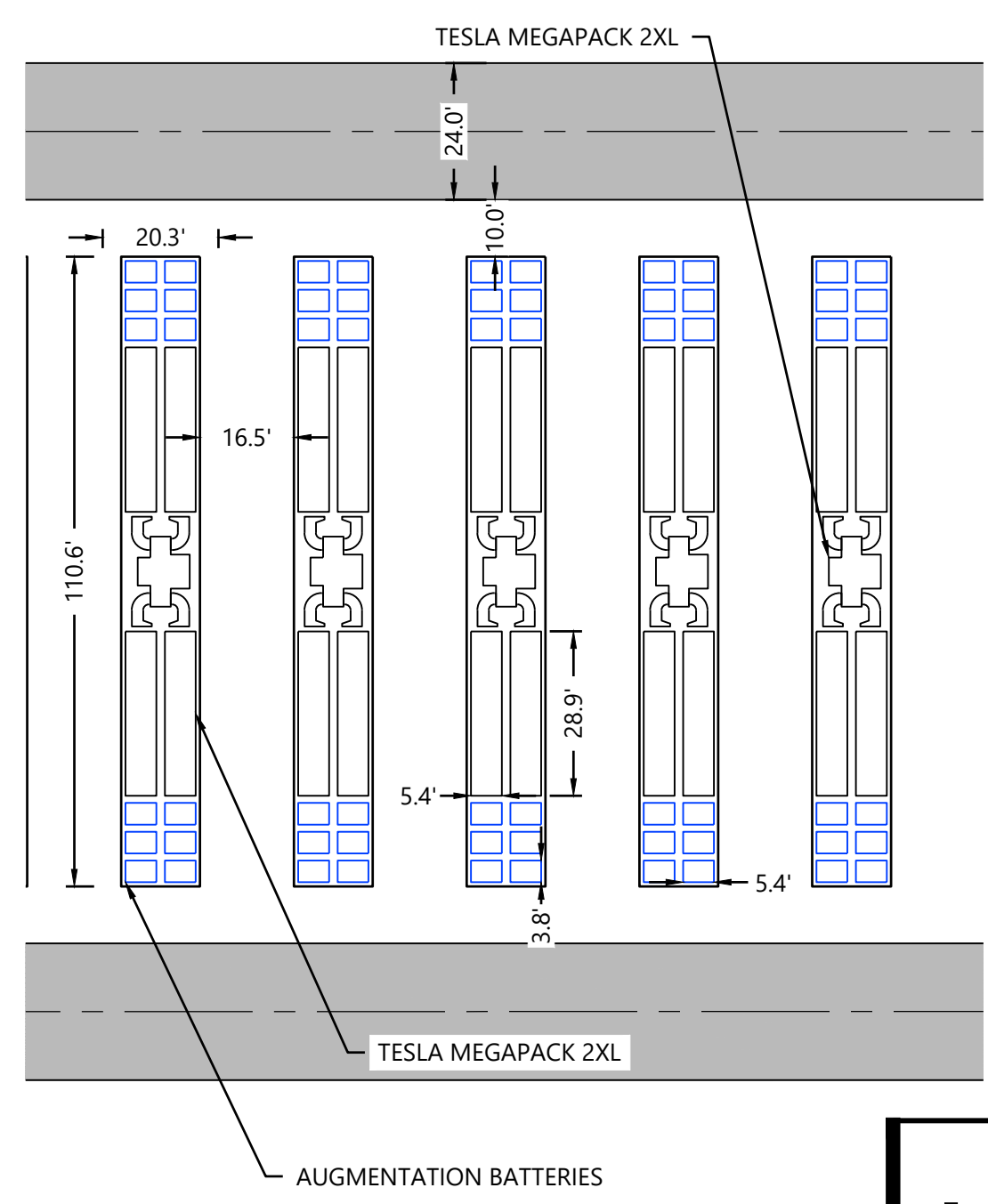
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- EX. OVERHEAD POWER
- EX. WETLAND
- PROPOSED SOLAR ARRAY
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- PROPOSED DRAINAGE SWALE
- PROPOSED UNDERGROUND COLLECTION
- PROPOSED OVERHEAD GEN-TIE
- POINT OF INTERCONNECTION
- PROPOSED 100' REMOTE FACILITY BATTERY SETBACK
- PROPOSED SECURITY FENCE SETBACK
- PROPOSED ACCESS ROAD
- PROPOSED SECURITY FENCE
- PROPOSED LAYDOWN YARD
- PROPOSED SUBSTATION AREA
- PROPOSED O&M FACILITY
- PROPOSED BASIN LOCATION

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TYPICAL LAYOUT:



Lake Charlotte Solar Project

Martin County, Minnesota

BESS Proposed Layout

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DATE: 03/28/2025 REV:
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3/28/2025 10:52 AM C:\Users\jwheeler\OneDrive\Documents\Projects\Lake Charlotte\BESS\BESS-CP.dwg 3/28/2025 10:52 AM Brent Westwood

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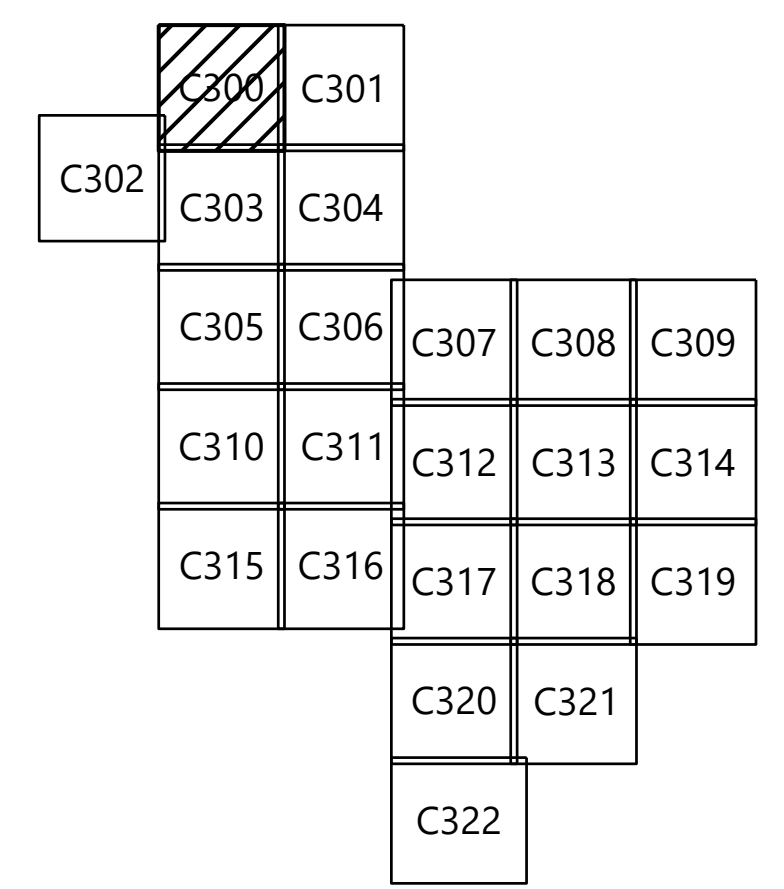
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- PROPOSED SECURITY FENCE GATE
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- PROPOSED SUBSTATION
- PROPOSED BESS
- PROPOSED O&M FACILITY
- PROPOSED BASIN LOCATION
- PROPOSED LOW WATER CROSSING
- PROPOSED PERIMETER SEDIMENT CONTROL
- PROPOSED CULVERT
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- SEE SHEETS C700 - C702 FOR SITE DETAILS, FENCING DETAILS, AND ROAD SECTION DETAILS.
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- FURTHER DESIGN REQUIRED TO SHOW PROPOSED GRADING DISTURBANCE AREAS AND ADDITIONAL EROSION CONTROL BMPs.

KEY MAP:

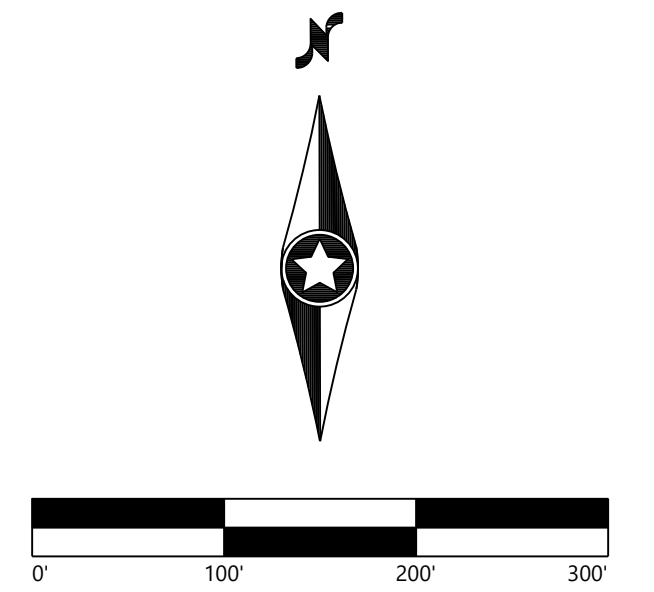
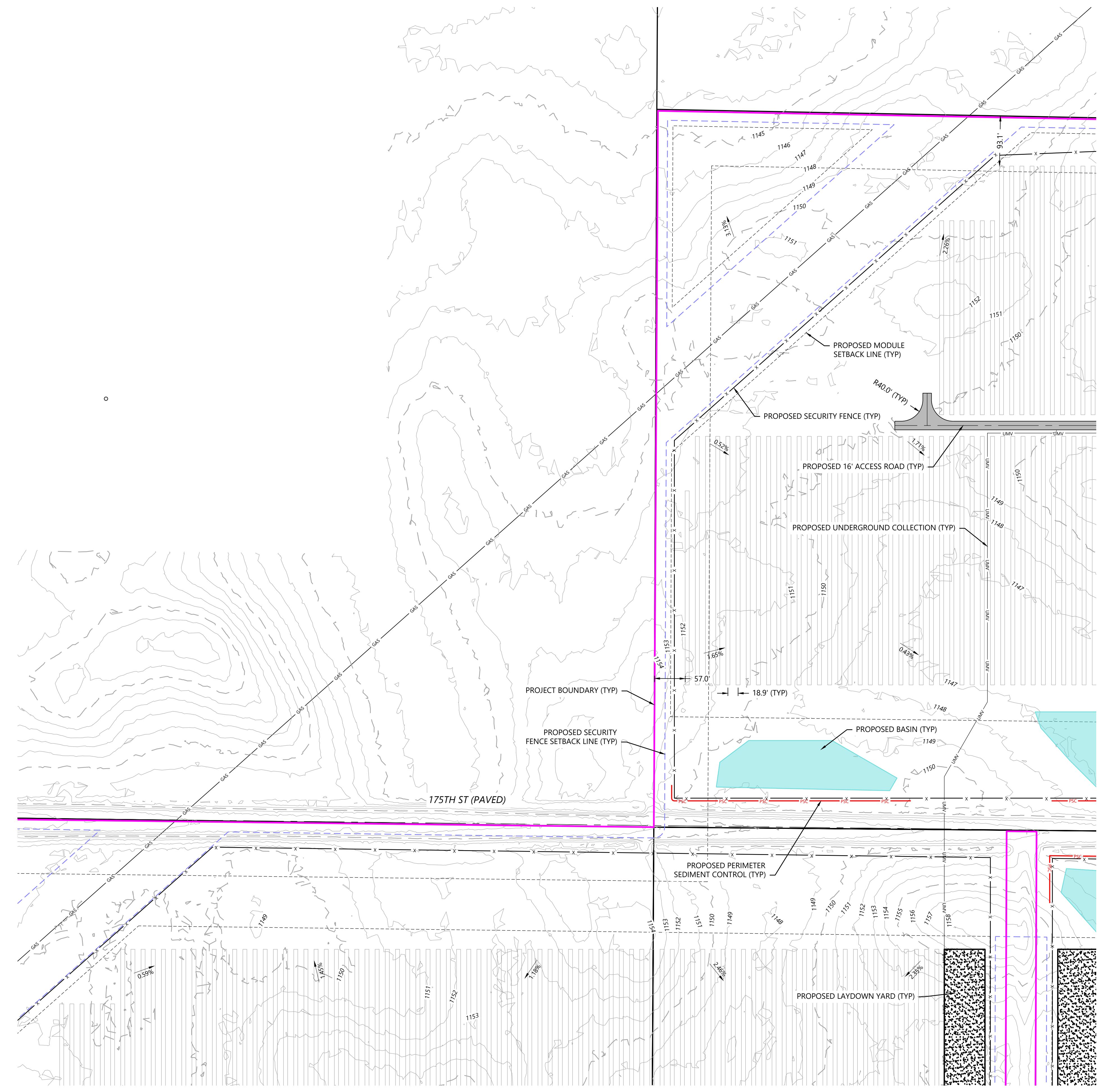


Lake Charlotte Solar Project
 Martin County, Minnesota

Civil Site Plan - 1

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DATE: 03/28/2025 REV: C
 SHEET: C300



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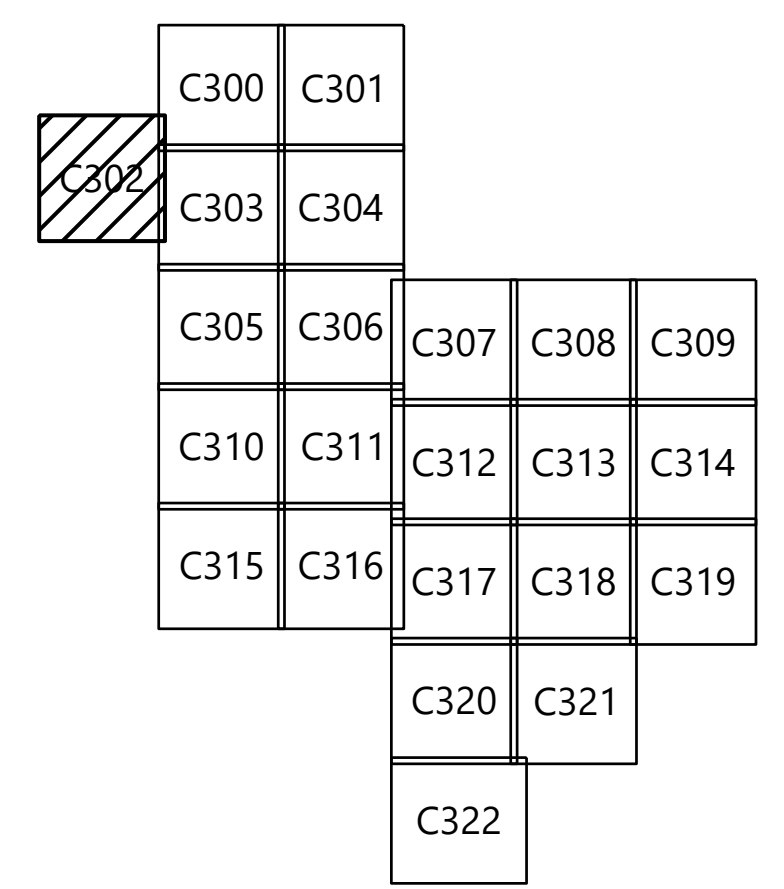
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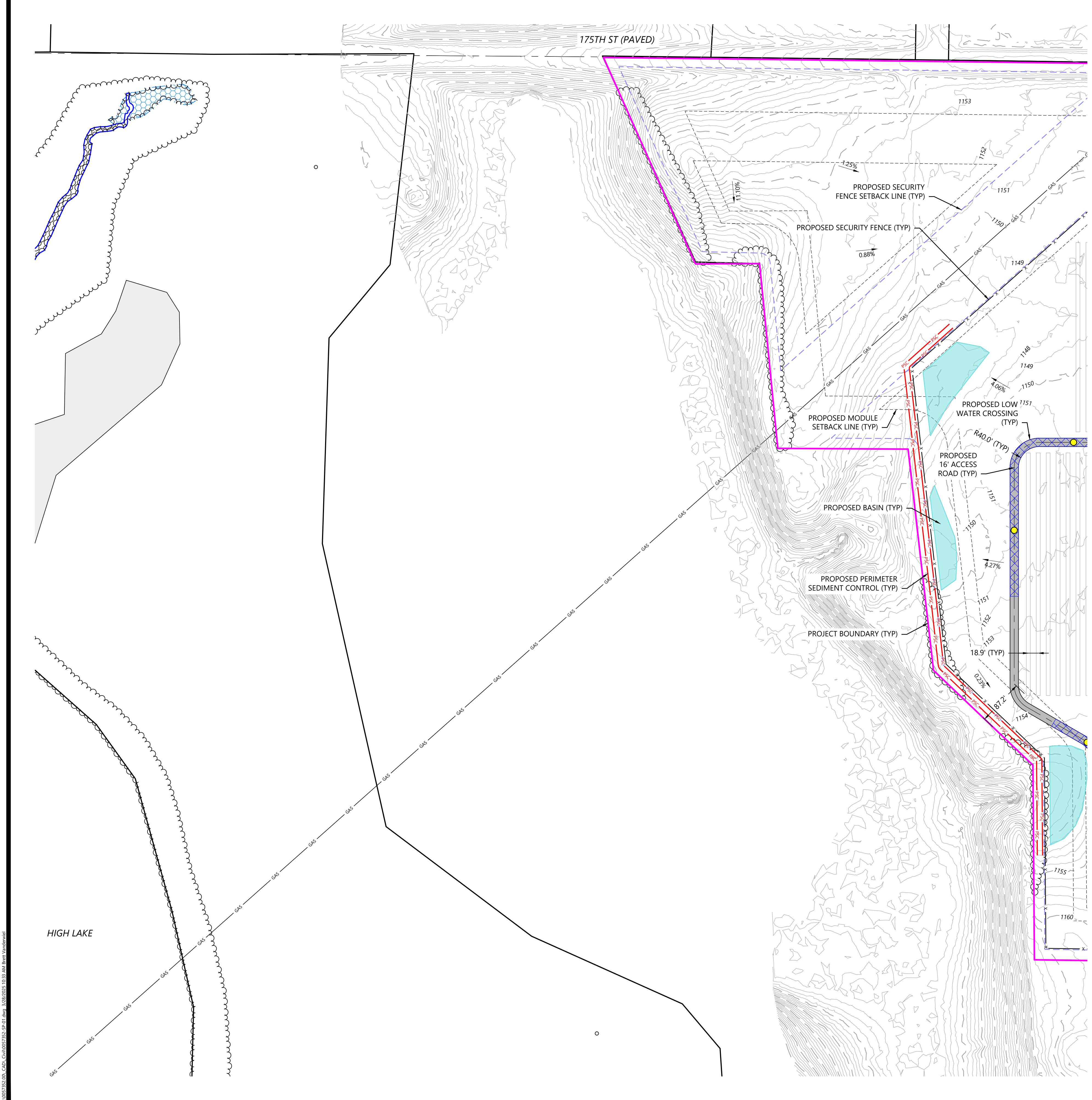
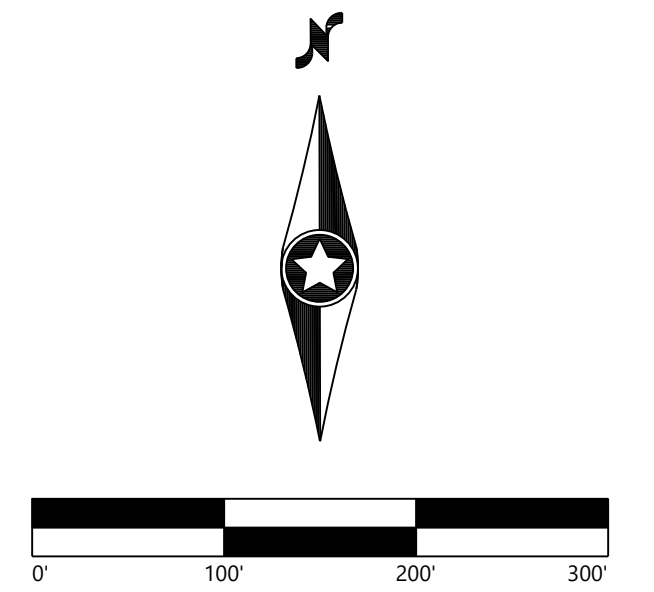


Lake Charlotte Solar Project
 Martin County, Minnesota

Civil Site Plan - 3

**ISSUED FOR PERMIT
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DATE: 03/28/2025 REV: C
 SHEET: C302



2/20/25 10:50 AM C:\Users\jgallagher\OneDrive\Documents\Projects\Lake Charlotte\302\302.dwg 3/28/2025 10:31 AM Brett Vandenberg

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REVISIONS:

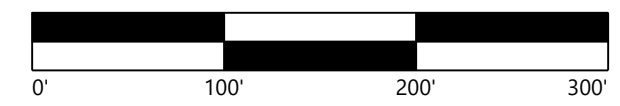
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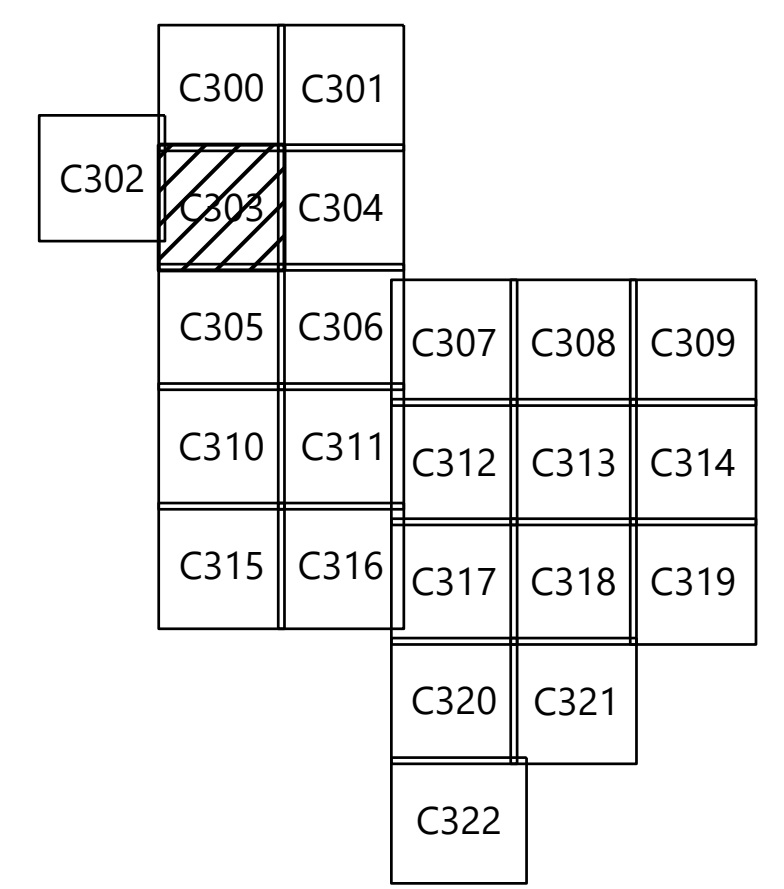
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- EX. WETLAND
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- PROPOSED SOLAR ARRAY
- PROPOSED ALTERNATE SOLAR ARRAY
- PROPOSED ELECTRICAL EQUIPMENT
- PROPOSED UNDERGROUND COLLECTION
- PROPOSED OVERHEAD GEN-TIE
- POINT OF INTERCONNECTION
- PROPOSED MODULE SETBACK
- PROPOSED SECURITY FENCE SETBACK
- PROPOSED DRAINAGE SWALE
- PROPOSED ACCESS ROAD
- PROPOSED SECURITY FENCE
- PROPOSED SECURITY FENCE GATE
- PROPOSED LAYDOWN YARD
- PROPOSED SUBSTATION
- PROPOSED BESS
- PROPOSED O&M FACILITY
- PROPOSED BASIN LOCATION
- PROPOSED LOW WATER CROSSING
- PROPOSED PERIMETER SEDIMENT CONTROL
- PROPOSED CULVERT
- PROPOSED DRAINAGE CROSSING
- PROPOSED CONCRETE WASHOUT
- PROPOSED LANDSCAPE SCREENING BUFFER

NOTES:

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KEY MAP:



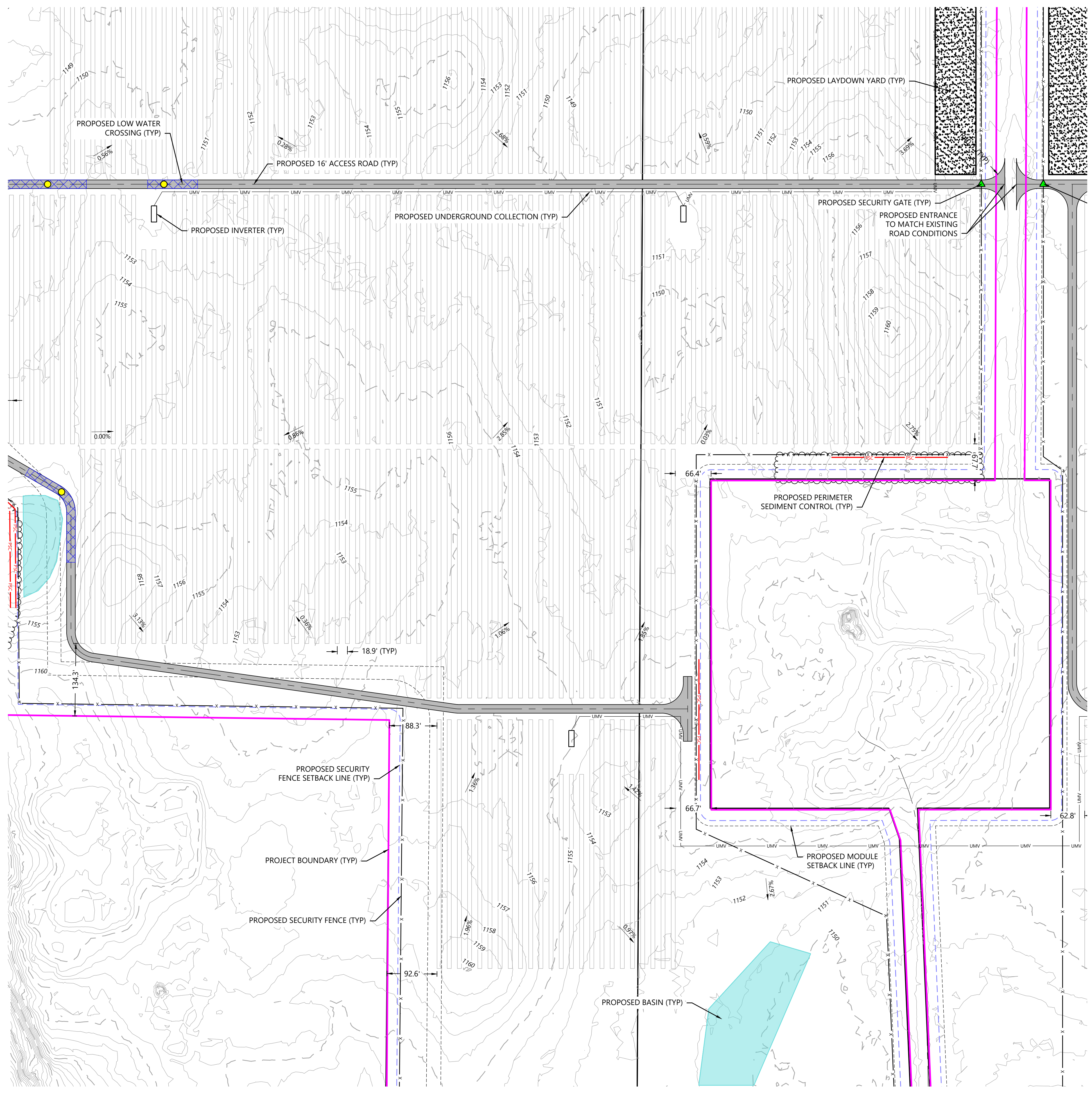
Lake Charlotte Solar Project

Martin County, Minnesota

Civil Site Plan - 4

ISSUED FOR PERMIT
 NOT FOR CONSTRUCTION

DATE: 03/28/2025 REV: C
 SHEET: C303



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PREPARED FOR:



8400 Normandale Lake Blvd, Suite 1200
 Bloomington, MN 55347

REVISIONS:

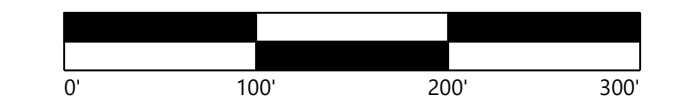
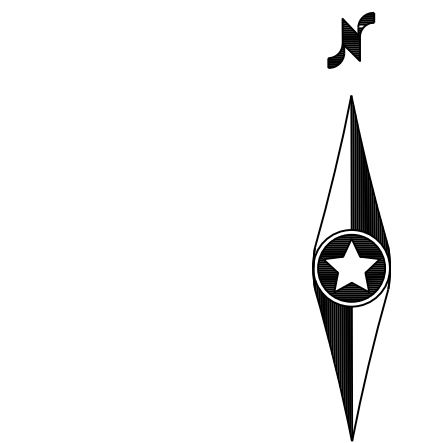
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C	03/28/2025	Permit Plans with BESS	AW	BV	BV

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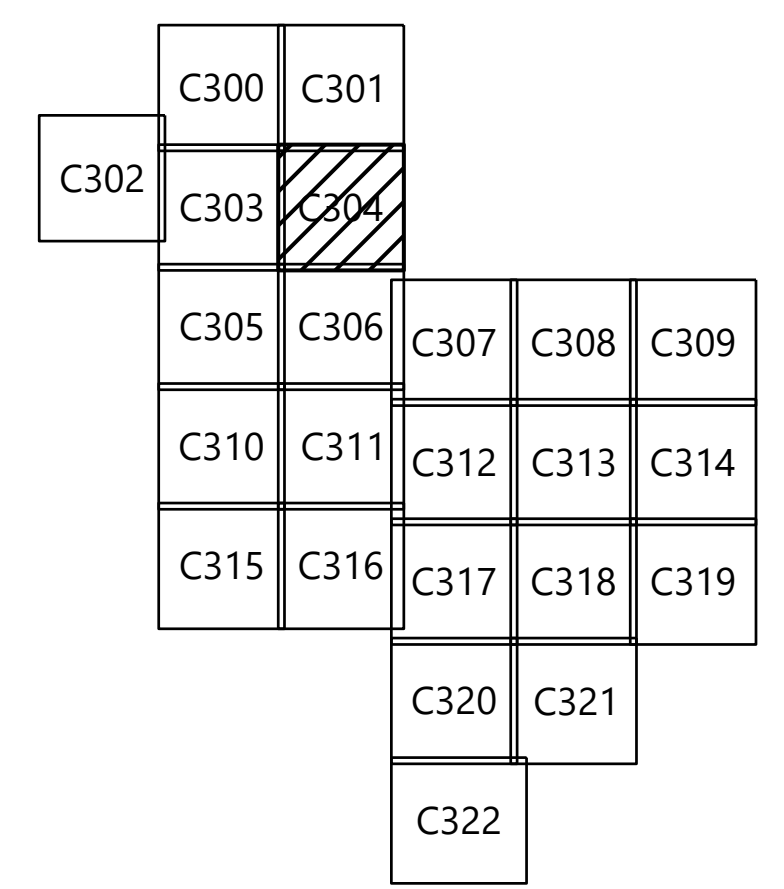
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- EX. INDEX CONTOUR
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- EX. TREELINE
- EX. OVERHEAD POWER
- EX. GAS PIPELINE
- EX. DRAINTILE
- EX. DRAINTILE PROPOSED TO BE ABANDONED
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- EX. WETLAND
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- PROPOSED SECURITY FENCE
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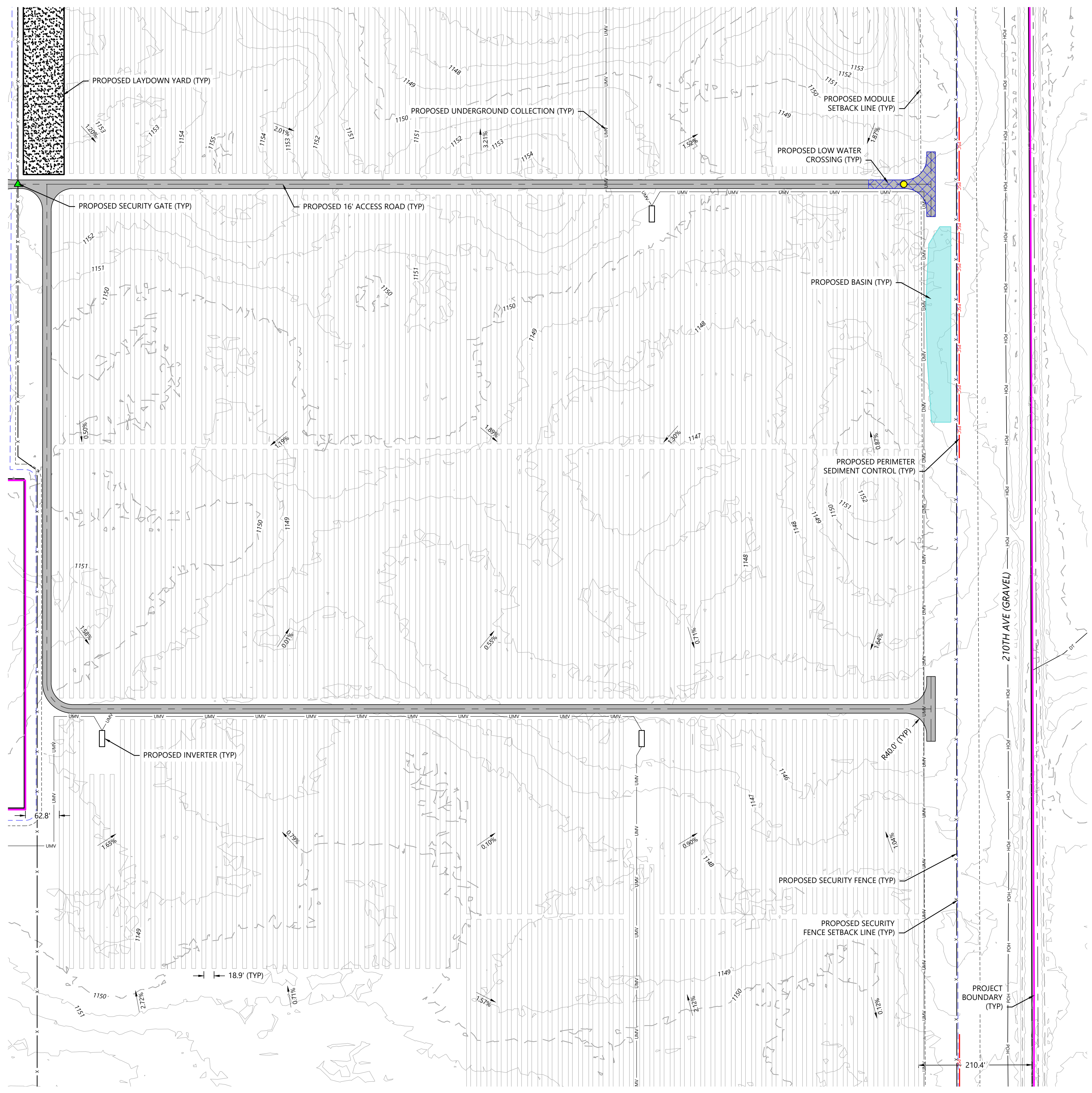
Lake Charlotte Solar Project
 Martin County, Minnesota

Civil Site Plan - 5

**ISSUED FOR PERMIT
 NOT FOR CONSTRUCTION**

DATE: 03/28/2025 REV:

SHEET: C304 C



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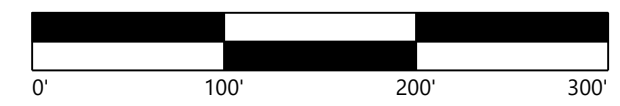
PREPARED FOR:



8400 Normandale Lake Blvd, Suite 1200
 Bloomington, MN 55347

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
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C	03/28/2025	Permit Plans with BESS	AW	BV	BV



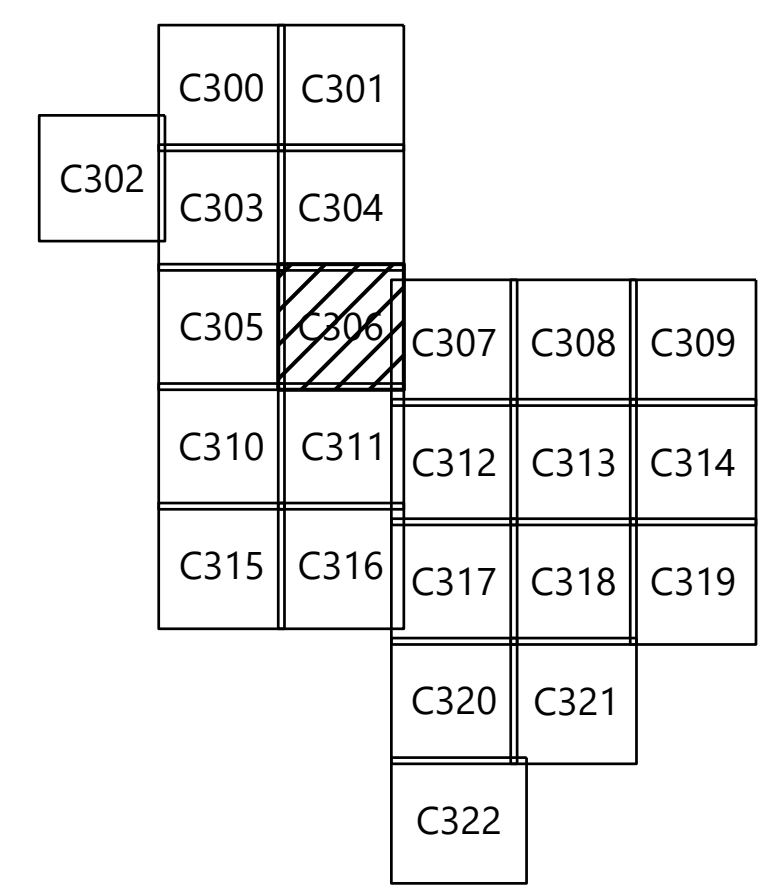
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- EX. TREELINE
- EX. OVERHEAD POWER
- EX. GAS PIPELINE
- EX. DRAINTILE
- EX. DRAINTILE PROPOSED TO BE ABANDONED
- EX. STREAM CHANNEL
- EX. WETLAND
- EX. ARCHEOLOGICAL LOCATION
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- PROPOSED ALTERNATE SOLAR ARRAY
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- PROPOSED DRAINAGE SWALE
- PROPOSED ACCESS ROAD
- PROPOSED SECURITY FENCE
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KEY MAP:



Lake Charlotte Solar Project
 Martin County, Minnesota

Civil Site Plan - 7

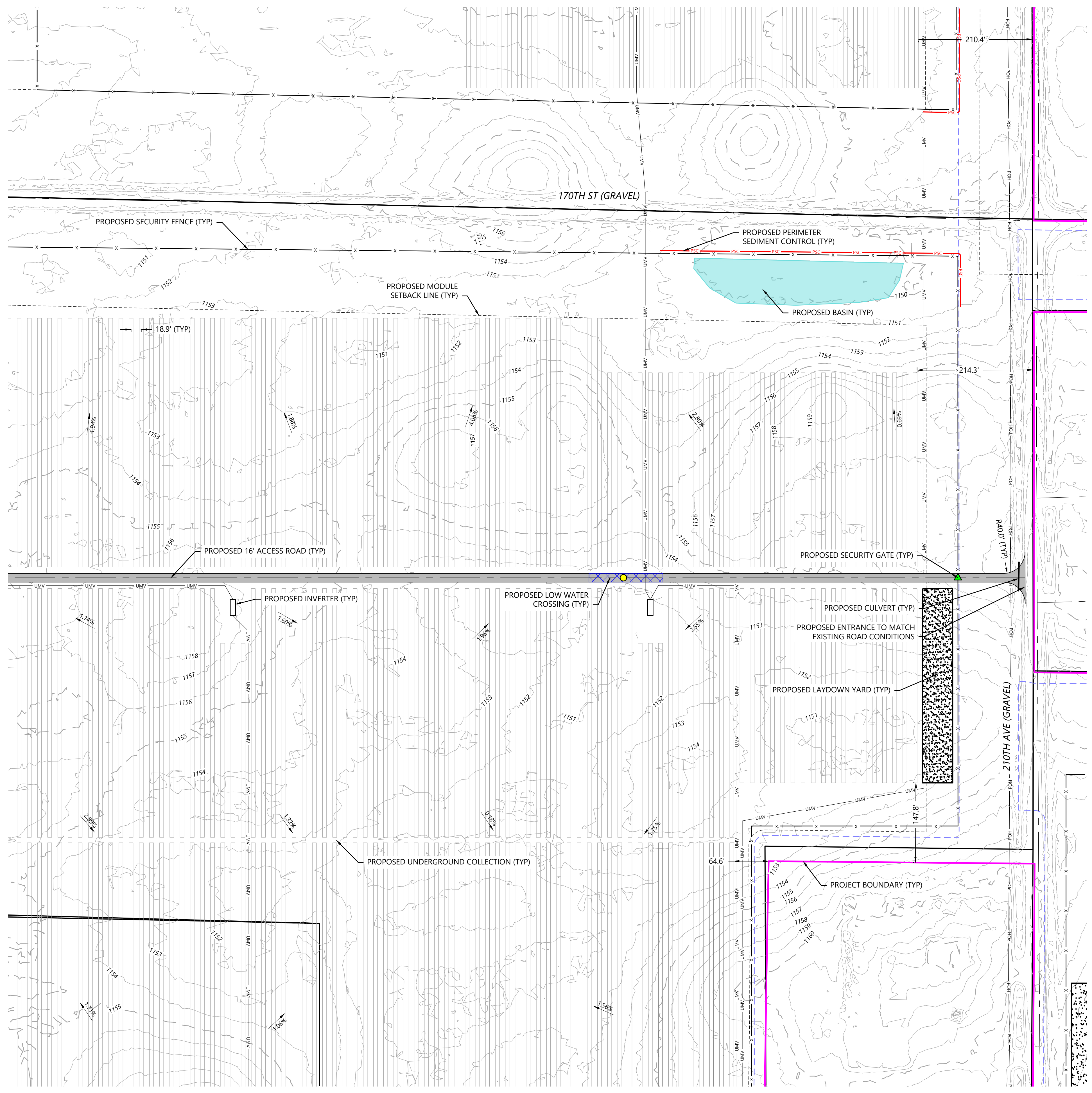
ISSUED FOR PERMIT
 NOT FOR CONSTRUCTION

DATE: 03/28/2025

SHEET: C306

REV: C

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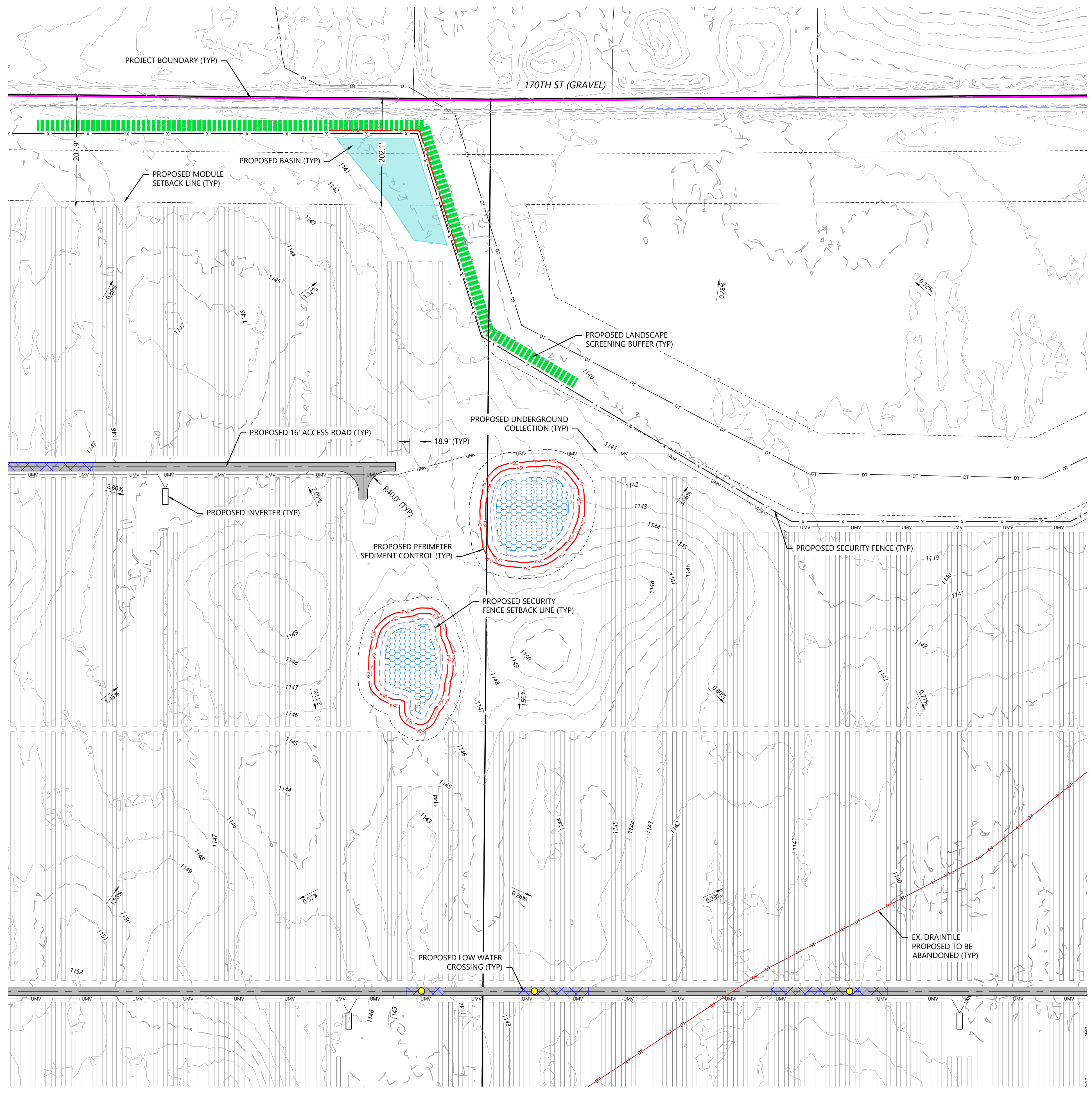
PREPARED FOR:



8400 Normandale Lake Blvd, Suite 1200
 Bloomington, MN 55347

REVISIONS:

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C	03/28/2025	Permit Plans with BESS	AW	BV	BV

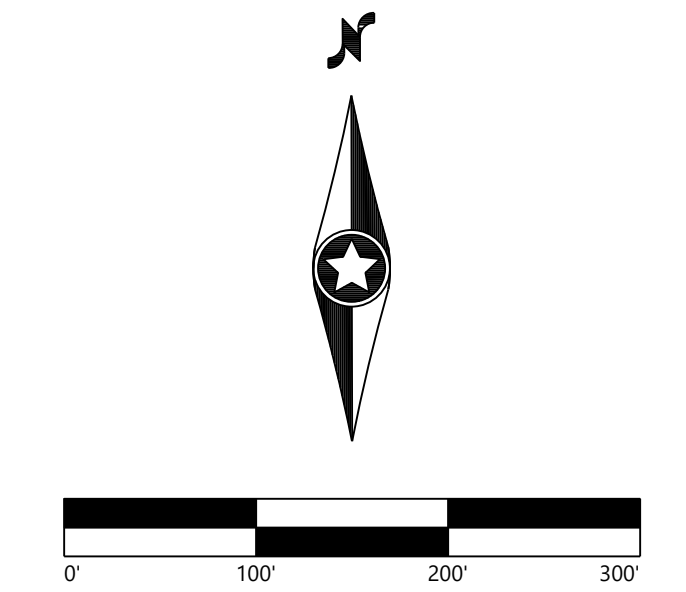


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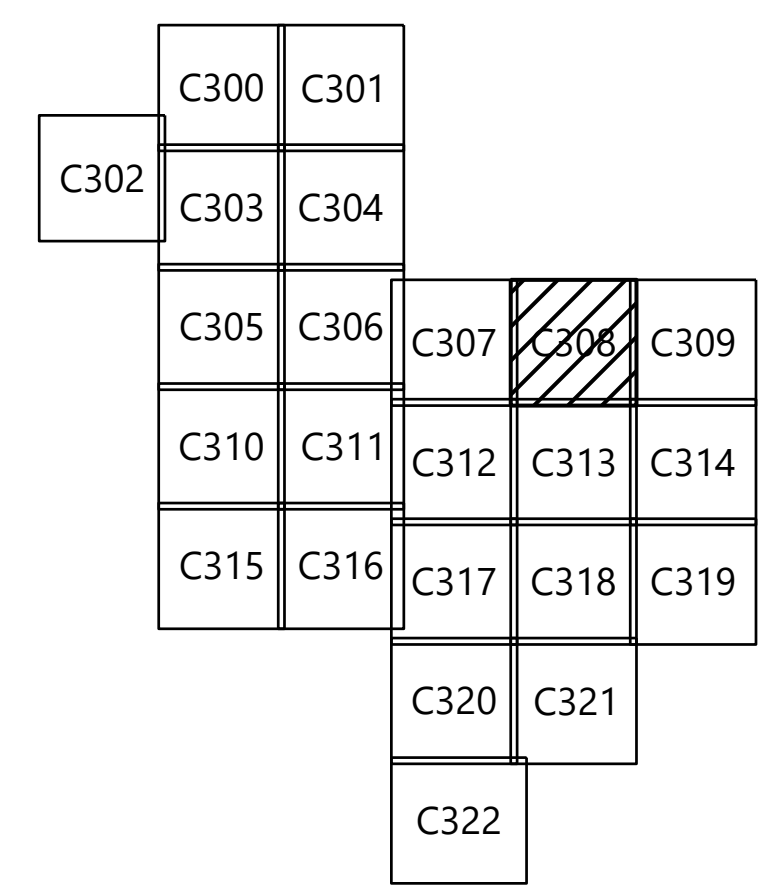
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- EX. TREELINE
- EX. OVERHEAD POWER
- EX. GAS PIPELINE
- EX. DRAINTILE
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KEY MAP:



Lake Charlotte Solar Project
 Martin County, Minnesota

Civil Site Plan - 9

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DATE: 03/28/2025 REV: C
 SHEET: C308

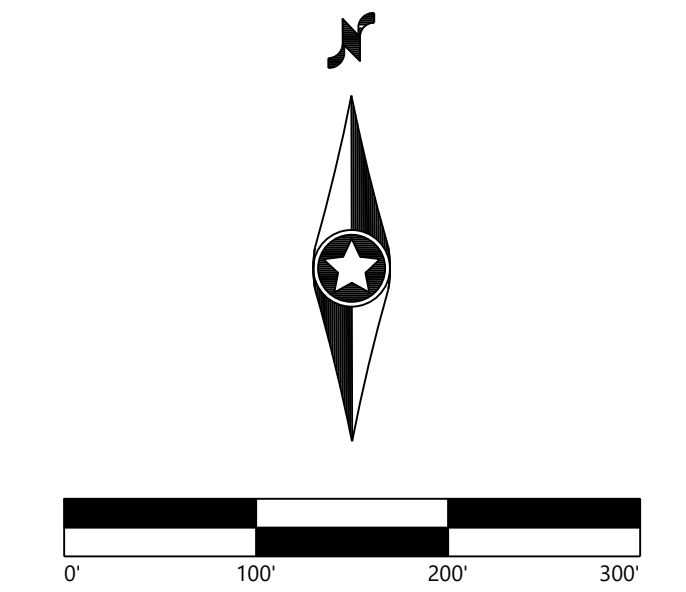
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8400 Normandale Lake Blvd, Suite 1200
 Bloomington, MN 55347

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	03/03/2025	Permit Plans	AW	BV	BV
B	03/12/2025	Permit Plans	AW	BV	BV
C	03/28/2025	Permit Plans with BESS	AW	BV	BV



Lake Charlotte Solar Project

Martin County, Minnesota

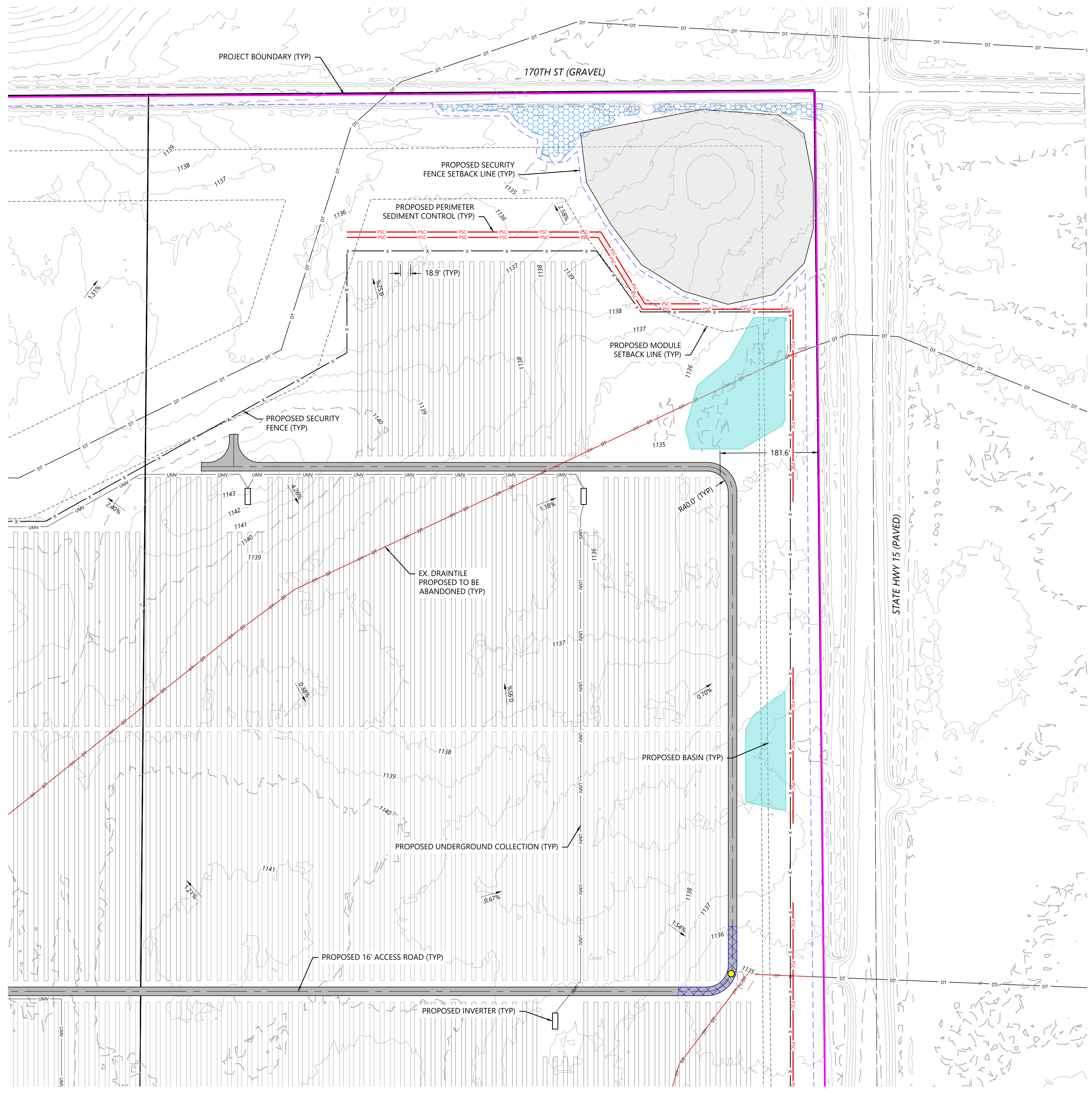
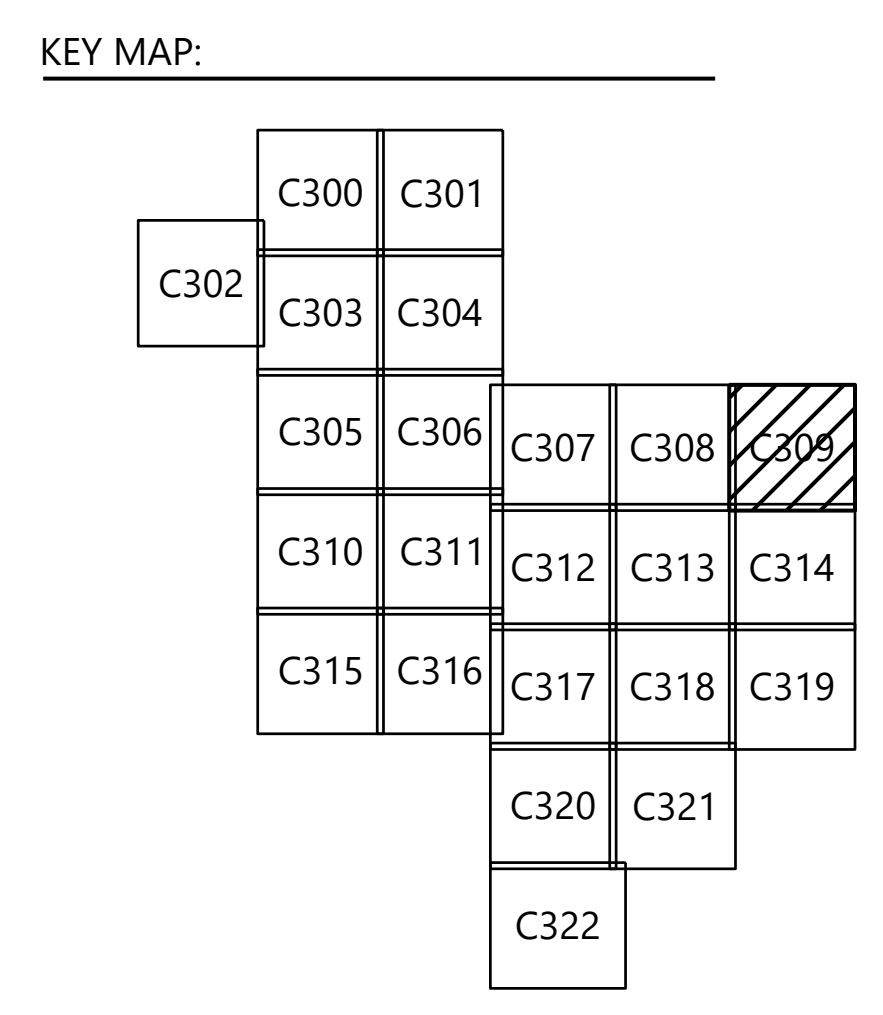
Civil Site Plan - 10

ISSUED FOR PERMIT
 NOT FOR CONSTRUCTION

DATE: 03/28/2025 REV:
 SHEET: C309 C

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 - EX. PARCEL LINE
 - EX. INDEX CONTOUR
 - EX. INTERVAL CONTOUR
 - EX. TREELINE
 - EX. OVERHEAD POWER
 - EX. GAS PIPELINE
 - EX. DRAINTILE
 - EX. DRAINTILE PROPOSED TO BE ABANDONED
 - EX. STREAM CHANNEL
 - EX. WETLAND
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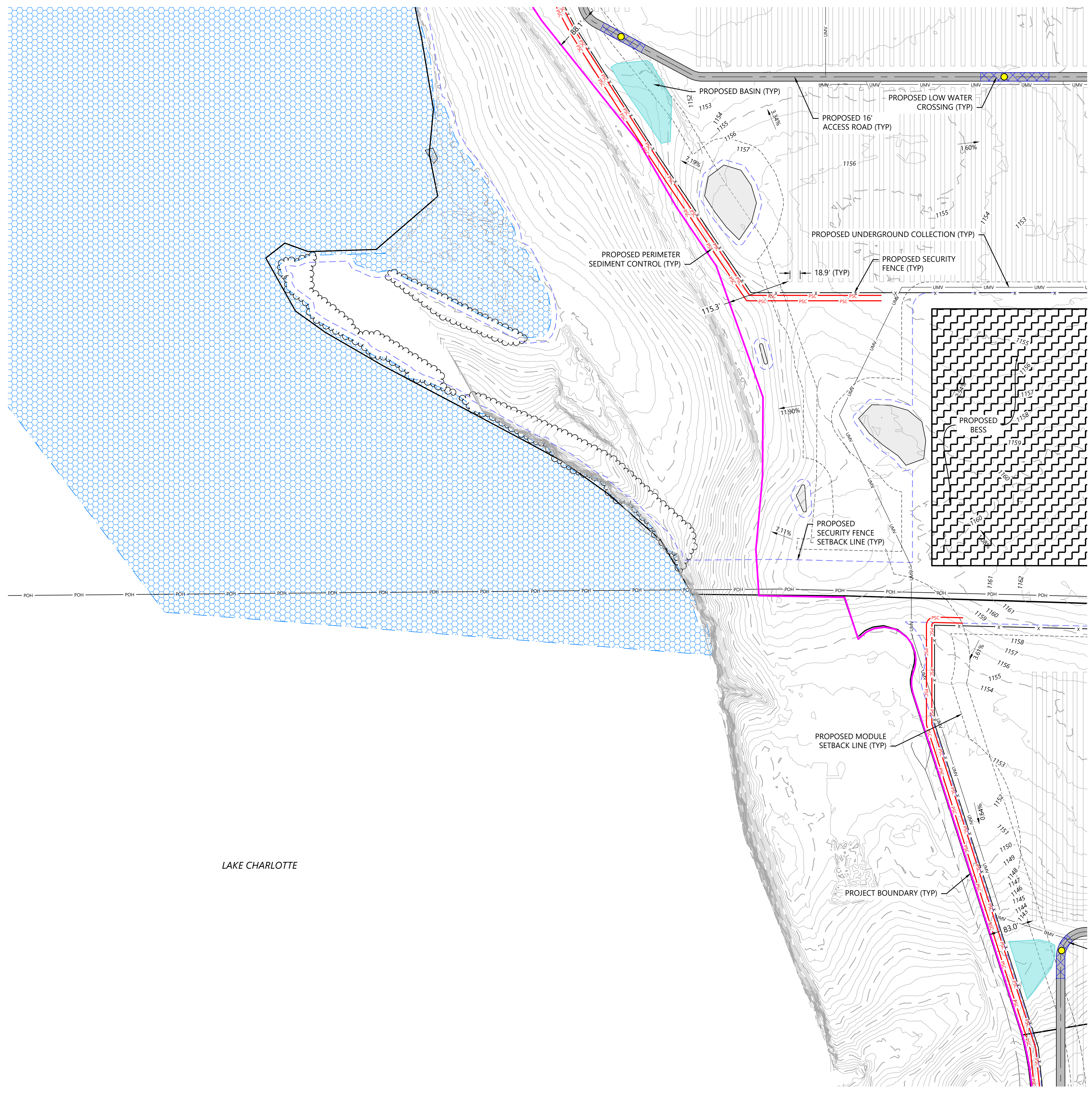
PREPARED FOR:



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 Bloomington, MN 55347

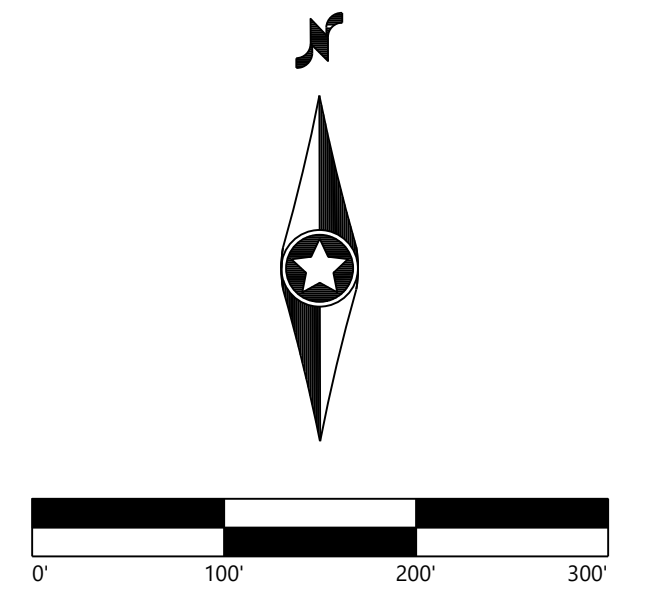
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B	03/12/2025	Permit Plans	AW	BV	BV
C	03/28/2025	Permit Plans with BESS	AW	BV	BV

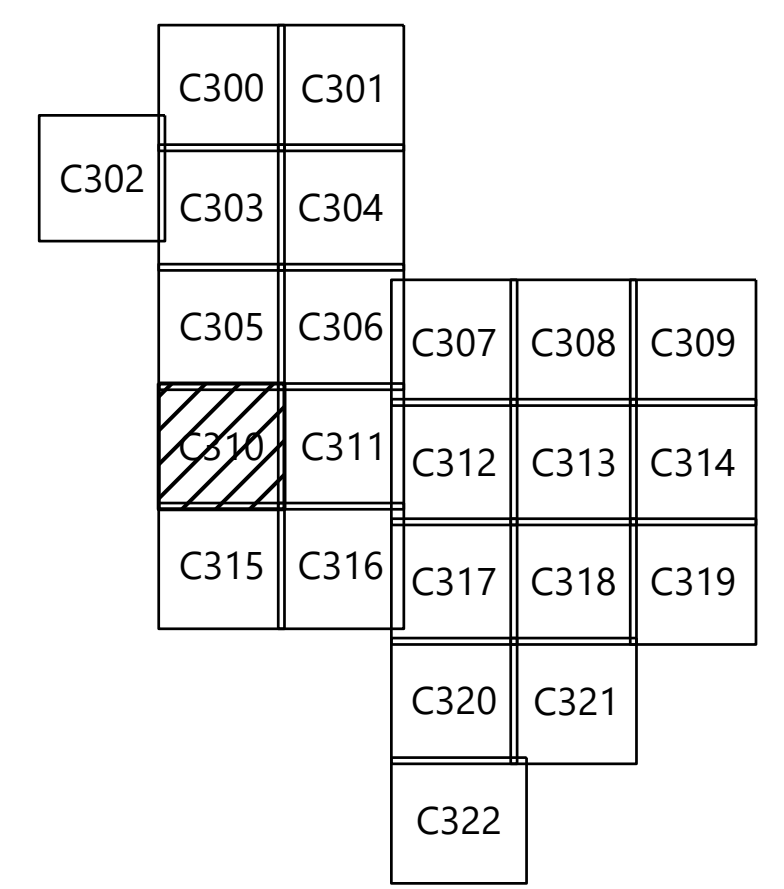


- LEGEND:**
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KEY MAP:



LAKE CHARLOTTE

Lake Charlotte Solar Project
 Martin County, Minnesota

Civil Site Plan - 11

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DATE: 03/28/2025 REV: C
 SHEET: C310

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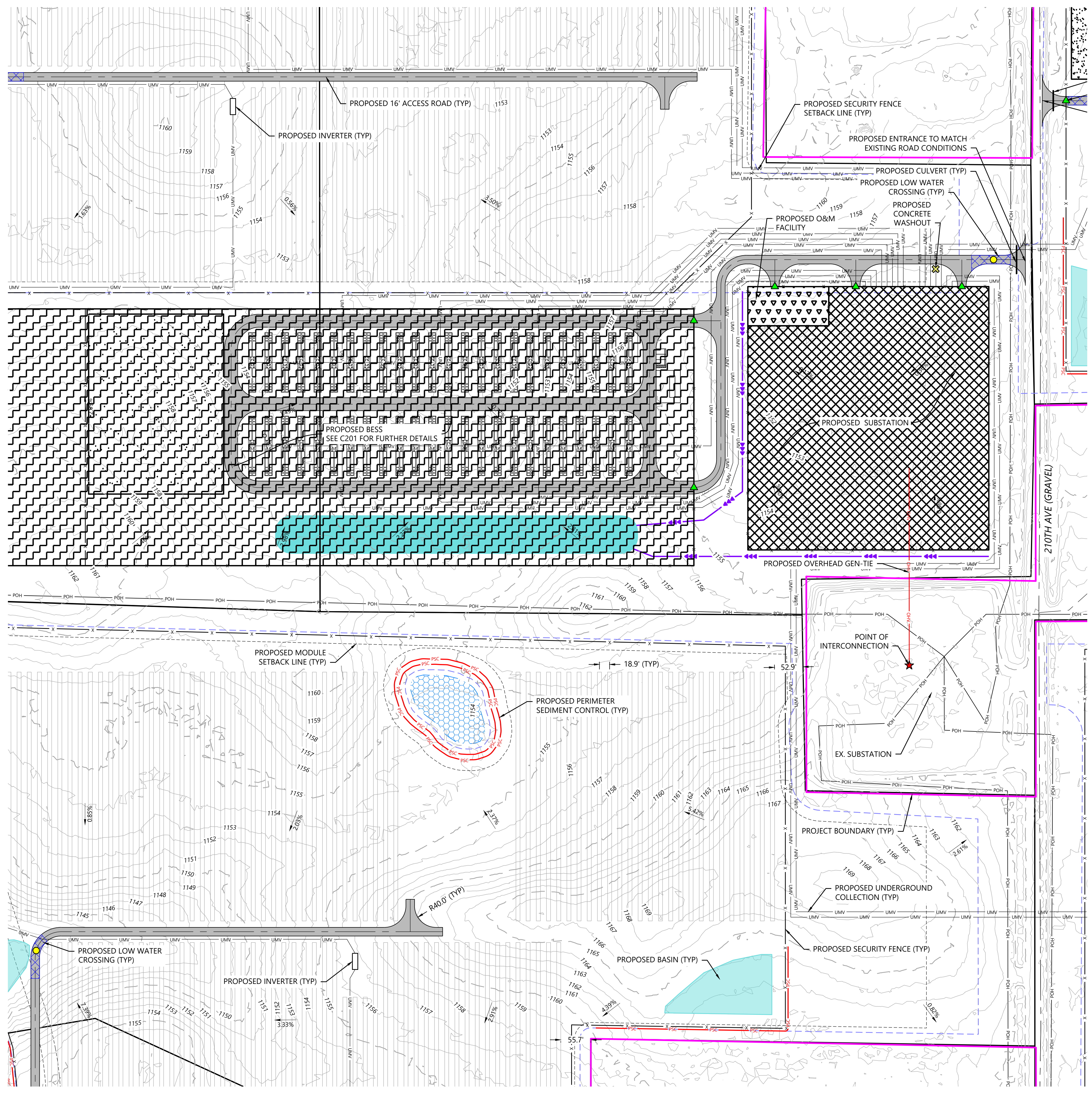
PREPARED FOR:



8400 Normandale Lake Blvd, Suite 1200
 Bloomington, MN 55347

REVISIONS:

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C	03/28/2025	Permit Plans with BESS	AW	BV	BV

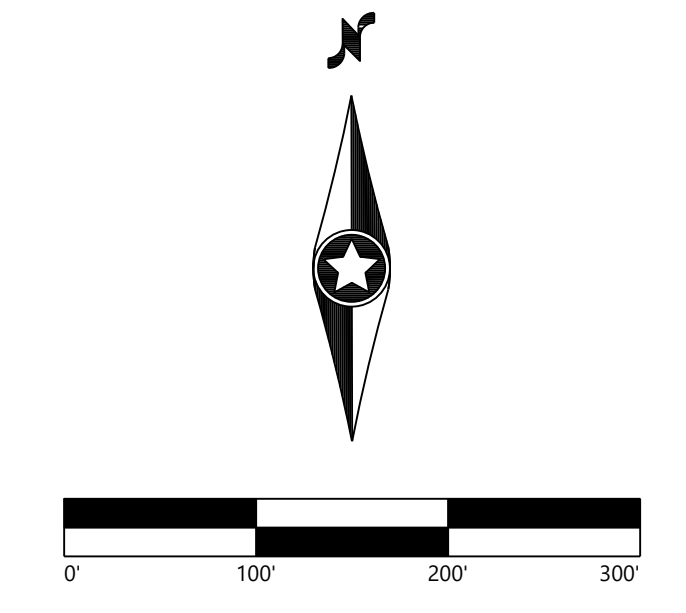


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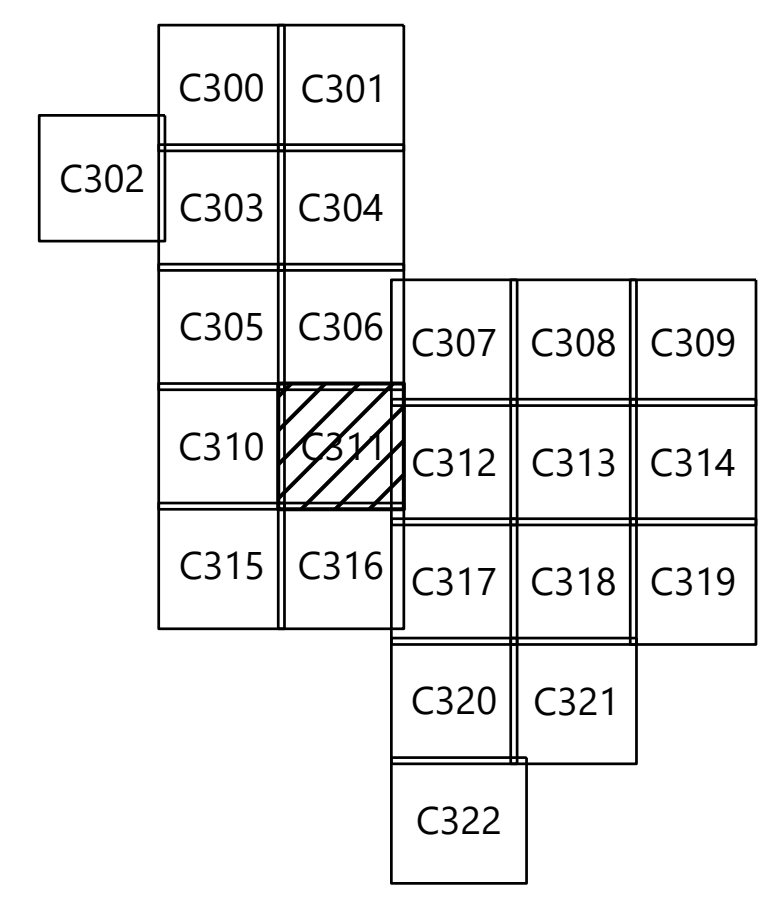
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- EX. INTERVAL CONTOUR
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KEY MAP:



Lake Charlotte Solar Project
 Martin County, Minnesota

Civil Site Plan - 12

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DATE: 03/28/2025 REV: C
 SHEET: C311

25/03/2025 10:50:00 CAD: C:\Users\jw321\OneDrive\Documents\250328\250328_1033_ASI\Draw\250328_1033.dwg

PREPARED FOR:



8400 Normandale Lake Blvd, Suite 1200
 Bloomington, MN 55347

REVISIONS:

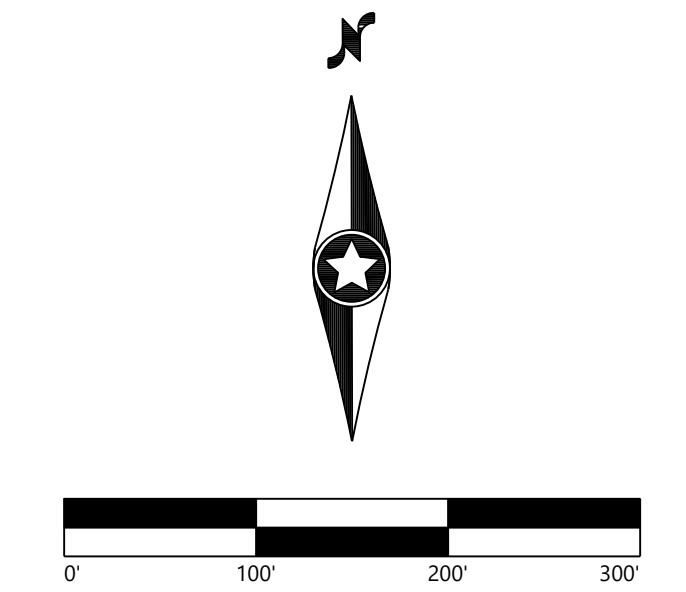
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C	03/28/2025	Permit Plans with BESS	AW	BV	BV



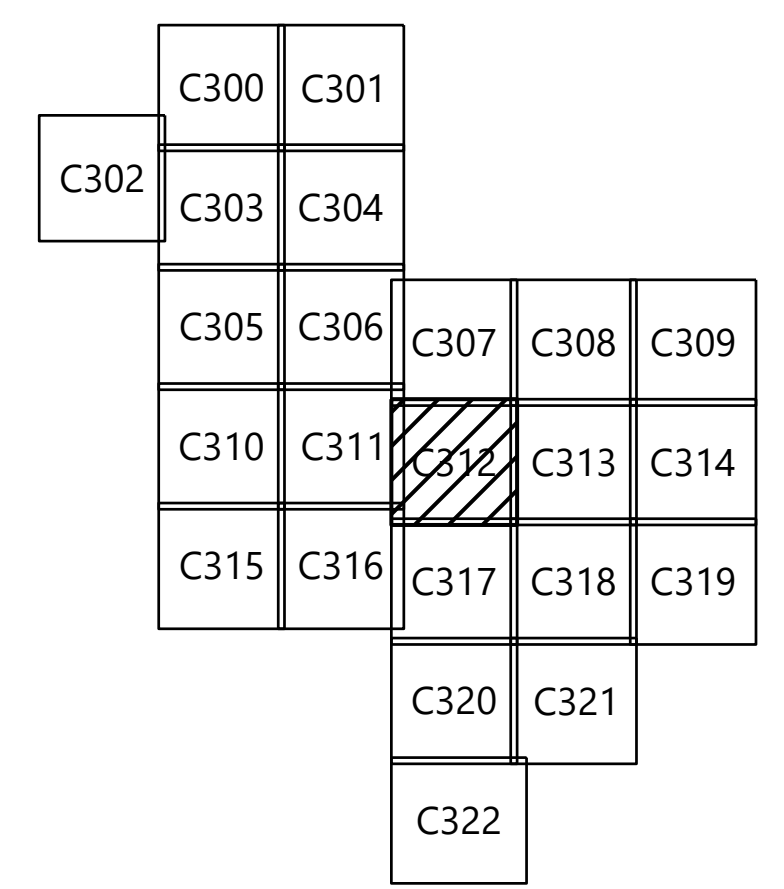
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 - EX. INDEX CONTOUR
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 - EX. TREELINE
 - EX. OVERHEAD POWER
 - EX. GAS PIPELINE
 - EX. DRAINTILE
 - EX. DRAINTILE PROPOSED TO BE ABANDONED
 - EX. STREAM CHANNEL
 - EX. WETLAND
 - EX. ARCHEOLOGICAL LOCATION
 - PROPOSED SOLAR ARRAY
 - PROPOSED ALTERNATE SOLAR ARRAY
 - PROPOSED ELECTRICAL EQUIPMENT
 - PROPOSED UNDERGROUND COLLECTION
 - PROPOSED OVERHEAD GEN-TIE
 - POINT OF INTERCONNECTION
 - PROPOSED MODULE SETBACK
 - PROPOSED SECURITY FENCE SETBACK
 - PROPOSED DRAINAGE SWALE
 - PROPOSED ACCESS ROAD
 - PROPOSED SECURITY FENCE
 - PROPOSED SECURITY FENCE GATE
 - PROPOSED LAYDOWN YARD
 - PROPOSED SUBSTATION
 - PROPOSED BESS
 - PROPOSED O&M FACILITY
 - PROPOSED BASIN LOCATION
 - PROPOSED LOW WATER CROSSING
 - PROPOSED PERIMETER SEDIMENT CONTROL
 - PROPOSED CULVERT
 - PROPOSED DRAINAGE CROSSING
 - PROPOSED CONCRETE WASHOUT
 - PROPOSED LANDSCAPE SCREENING BUFFER

NOTES:

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KEY MAP:



Lake Charlotte Solar Project

Martin County, Minnesota

Civil Site Plan - 13

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DATE: 03/28/2025 REV: C
 SHEET: C312

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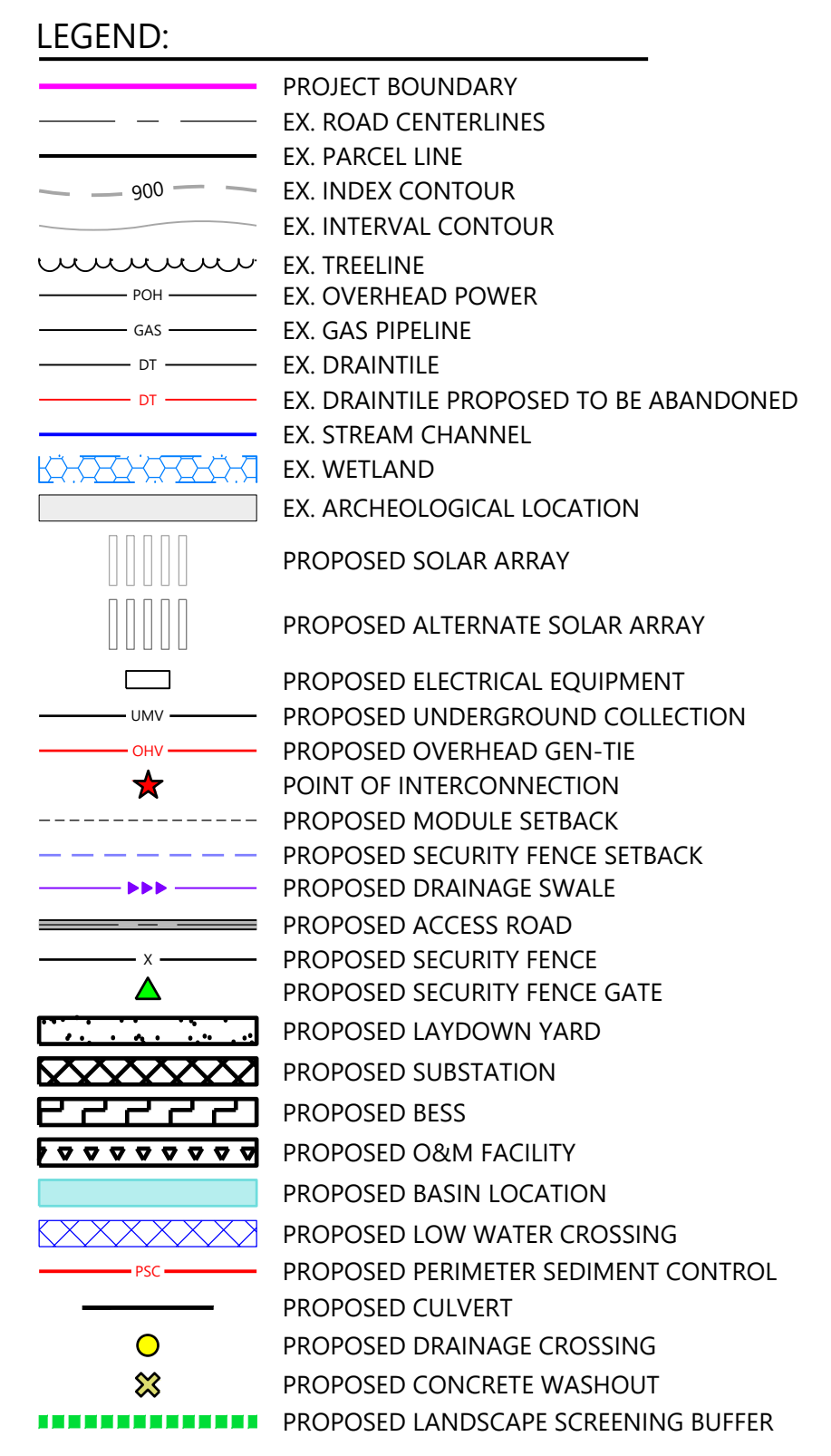
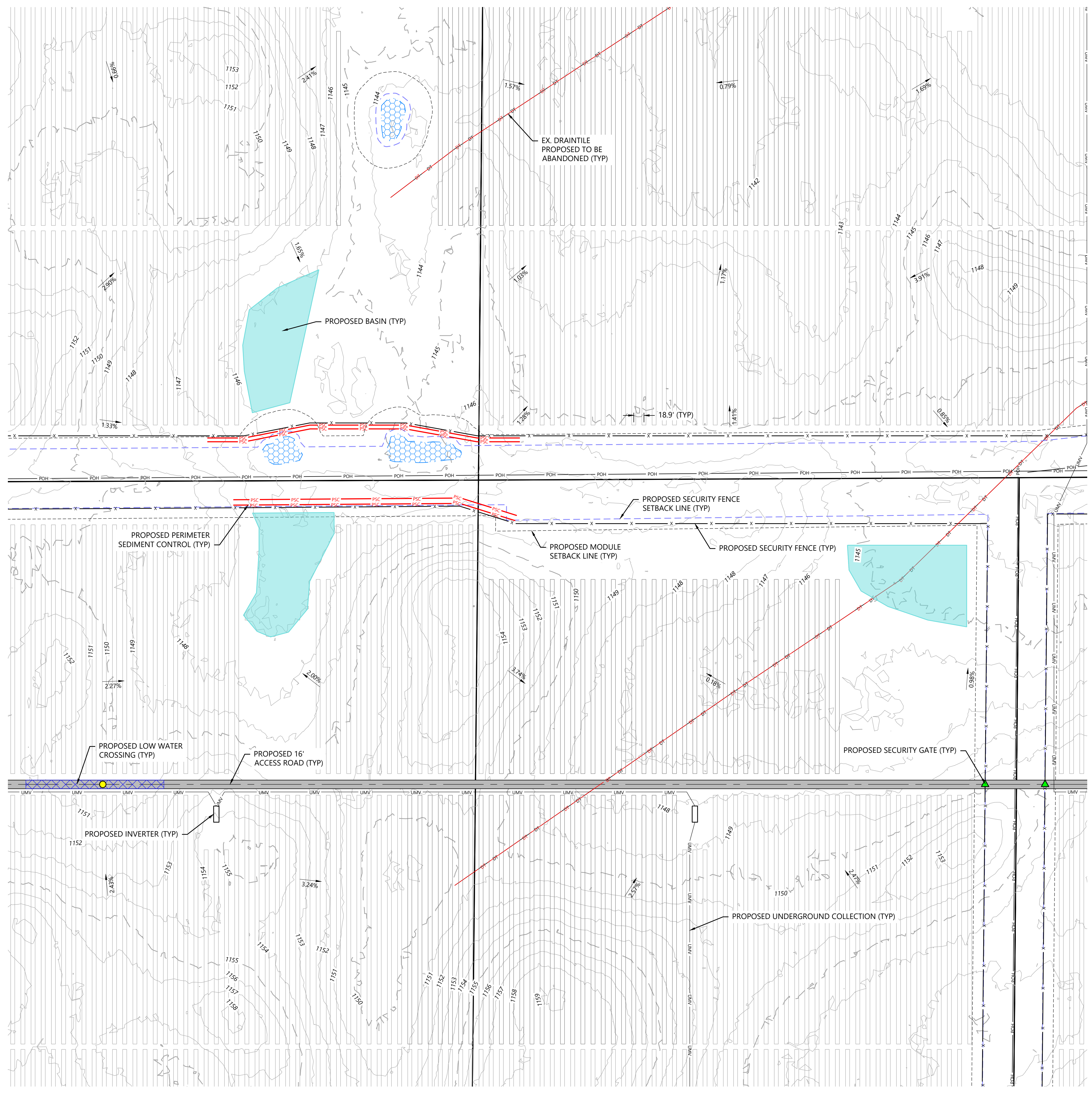
PREPARED FOR:



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 Bloomington, MN 55347

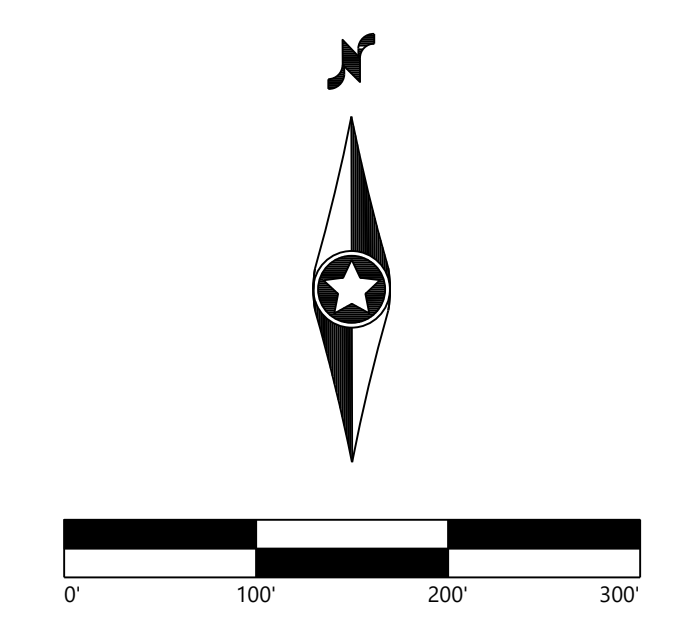
REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
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B	03/12/2025	Permit Plans	AW	BV	BV
C	03/28/2025	Permit Plans with BESS	AW	BV	BV

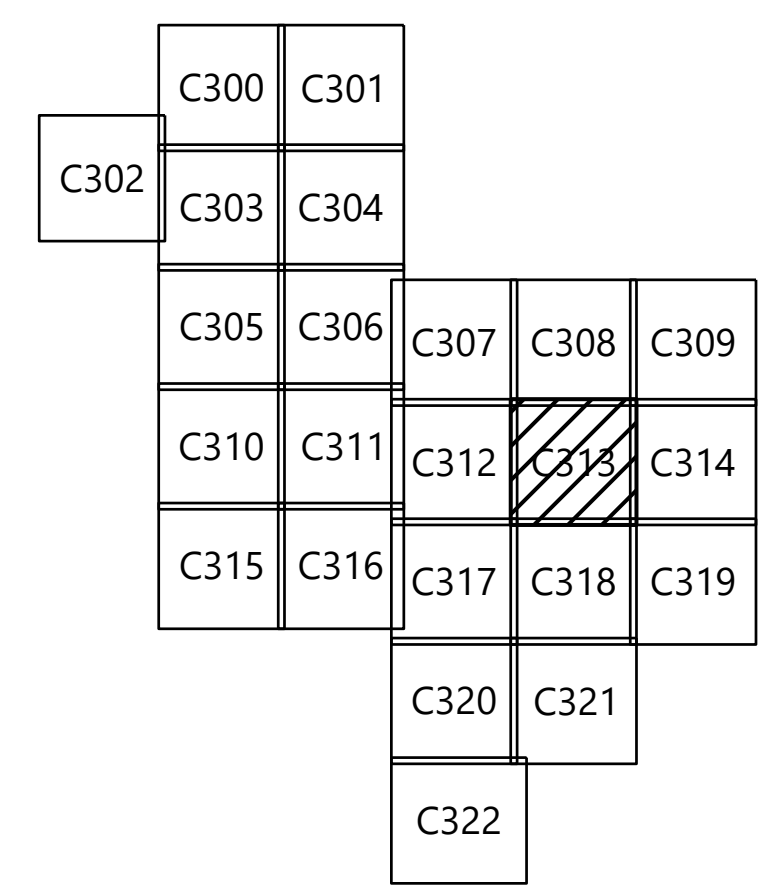


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KEY MAP:



Lake Charlotte Solar Project

Martin County, Minnesota

Civil Site Plan - 14

ISSUED FOR PERMIT
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DATE: 03/28/2025 REV: C
 SHEET: C313

25/03/2025 09:50:00 CAD: C:\Users\jsteele\OneDrive\Documents\2025\03\28\2025\10318_ASI\Draw\0313.dwg

PREPARED FOR:



8400 Normandale Lake Blvd, Suite 1200
 Bloomington, MN 55347

REVISIONS:

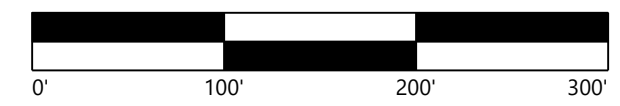
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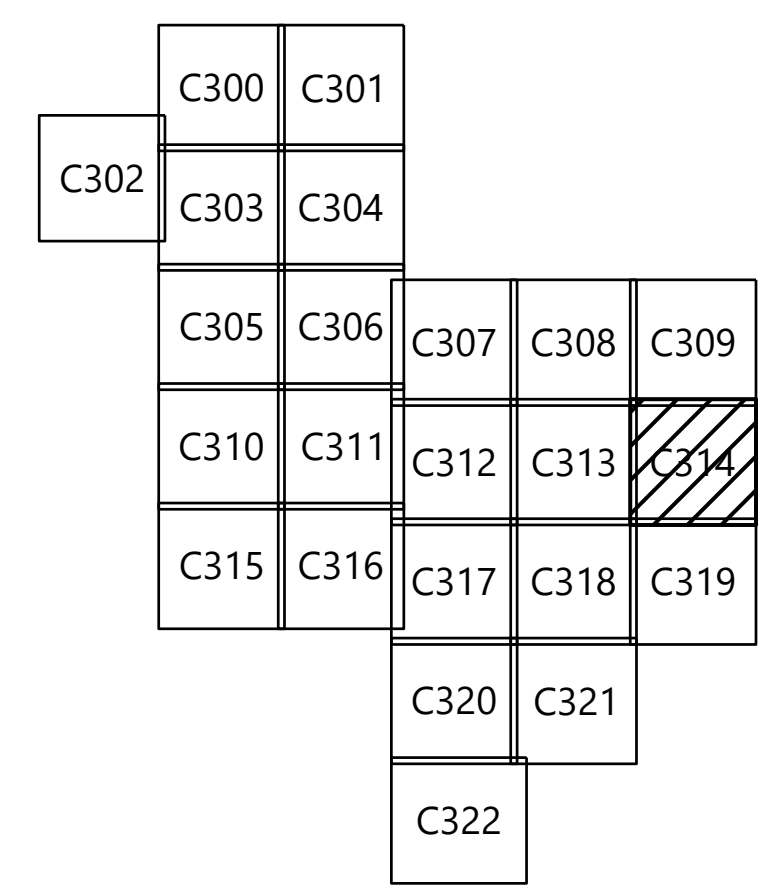
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- EX. ROAD CENTERLINES
- EX. PARCEL LINE
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. TREELINE
- EX. OVERHEAD POWER
- EX. GAS PIPELINE
- EX. DRAINTILE
- EX. DRAINTILE PROPOSED TO BE ABANDONED
- EX. STREAM CHANNEL
- EX. WETLAND
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- PROPOSED SECURITY FENCE
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KEY MAP:



Lake Charlotte Solar Project
 Martin County, Minnesota

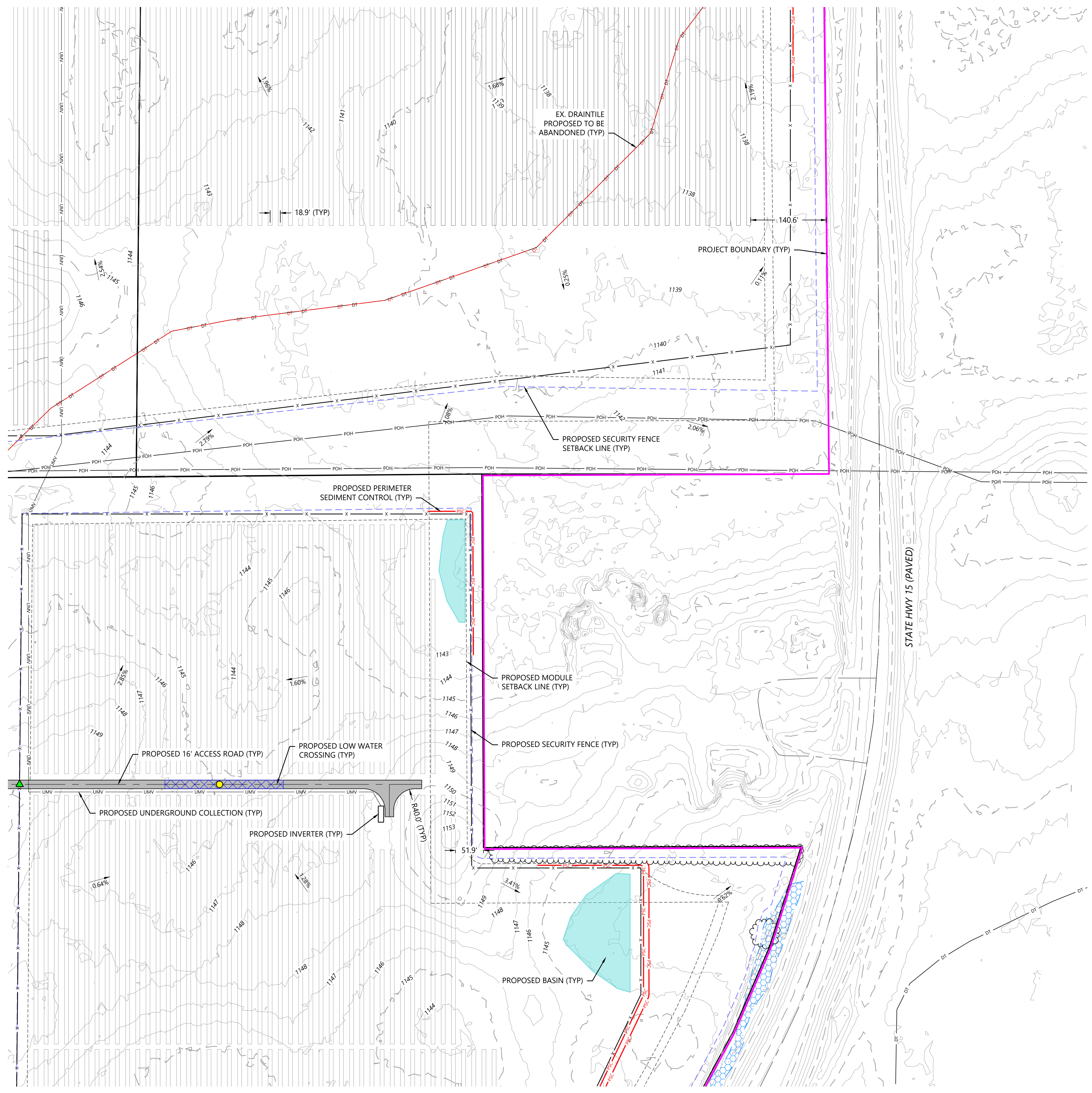
Civil Site Plan - 15

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DATE: 03/28/2025

SHEET: C314

REV: C



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REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
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B	03/12/2025	Permit Plans	AW	BV	BV
C	03/28/2025	Permit Plans with BESS	AW	BV	BV

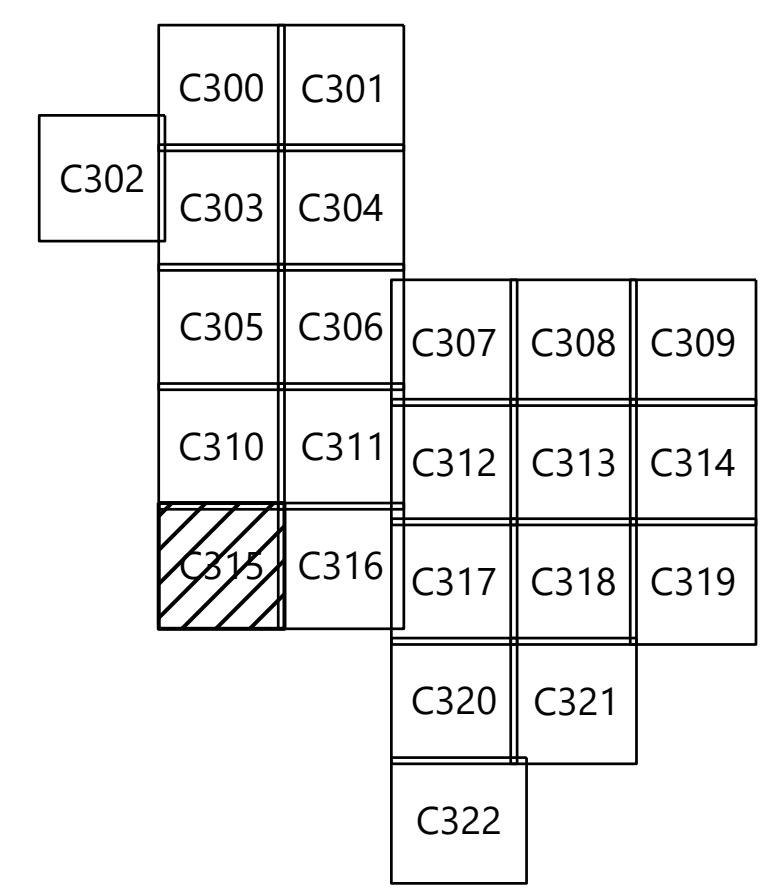
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- EX. PARCEL LINE
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- EX. TREELINE
- EX. OVERHEAD POWER
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KEY MAP:

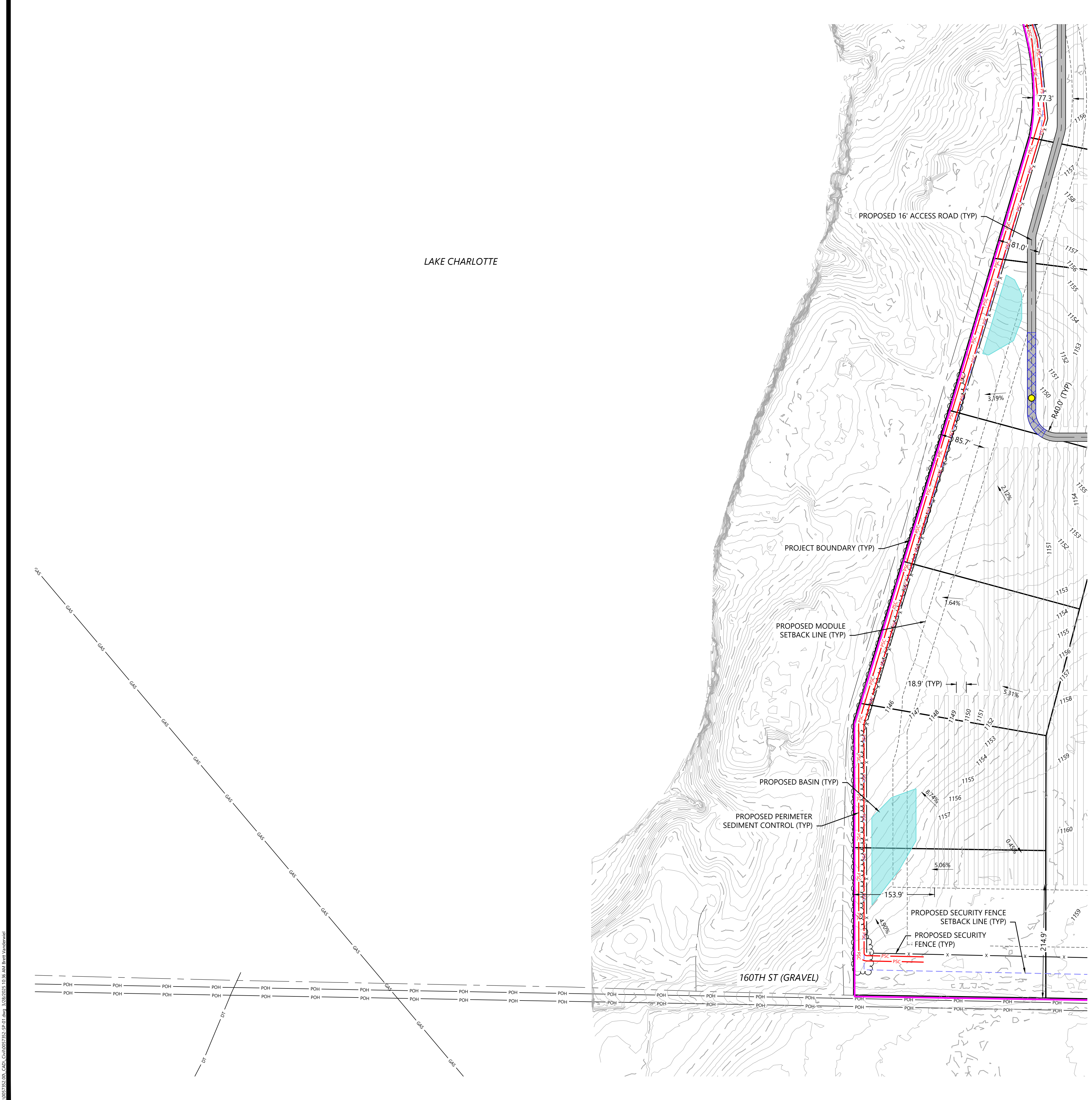


Lake Charlotte Solar Project
 Martin County, Minnesota

Civil Site Plan - 16

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DATE: 03/28/2025 REV: C
 SHEET: C315



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 Bloomington, MN 55347

REVISIONS:

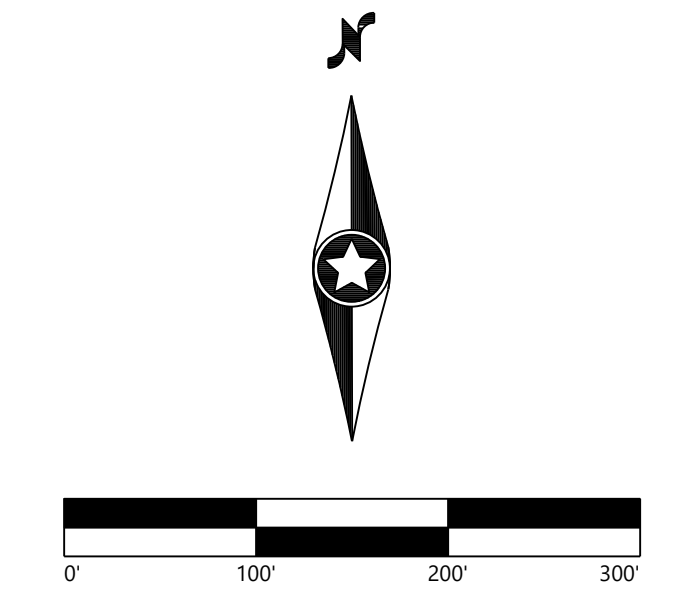
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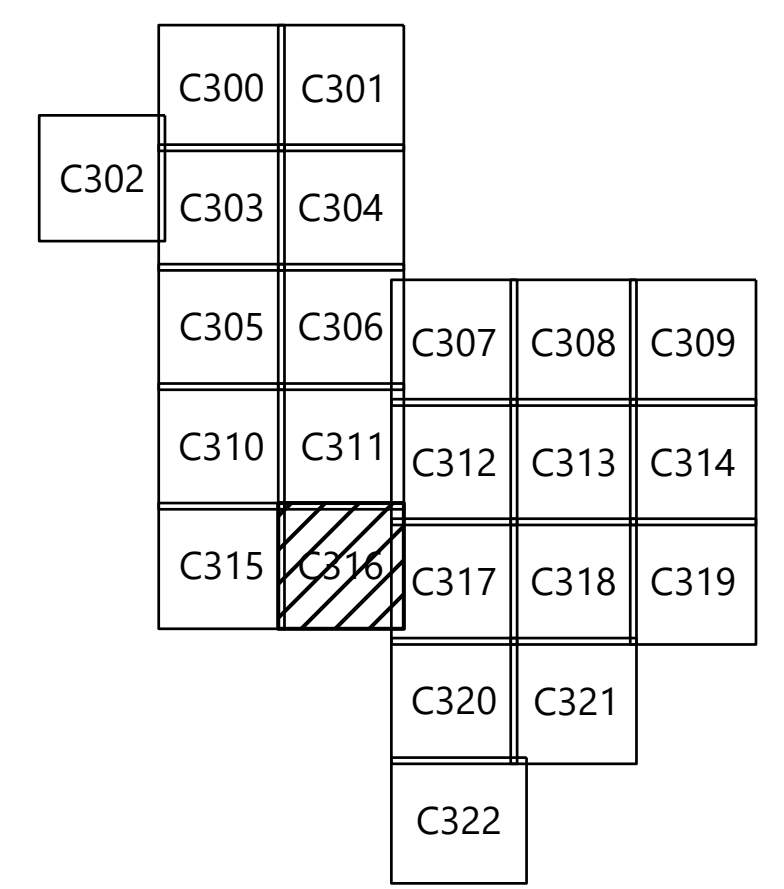
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 - EX. GAS PIPELINE
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KEY MAP:



Lake Charlotte Solar Project

Martin County, Minnesota

Civil Site Plan - 17

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DATE: 03/28/2025 REV: C
 SHEET: C316 C

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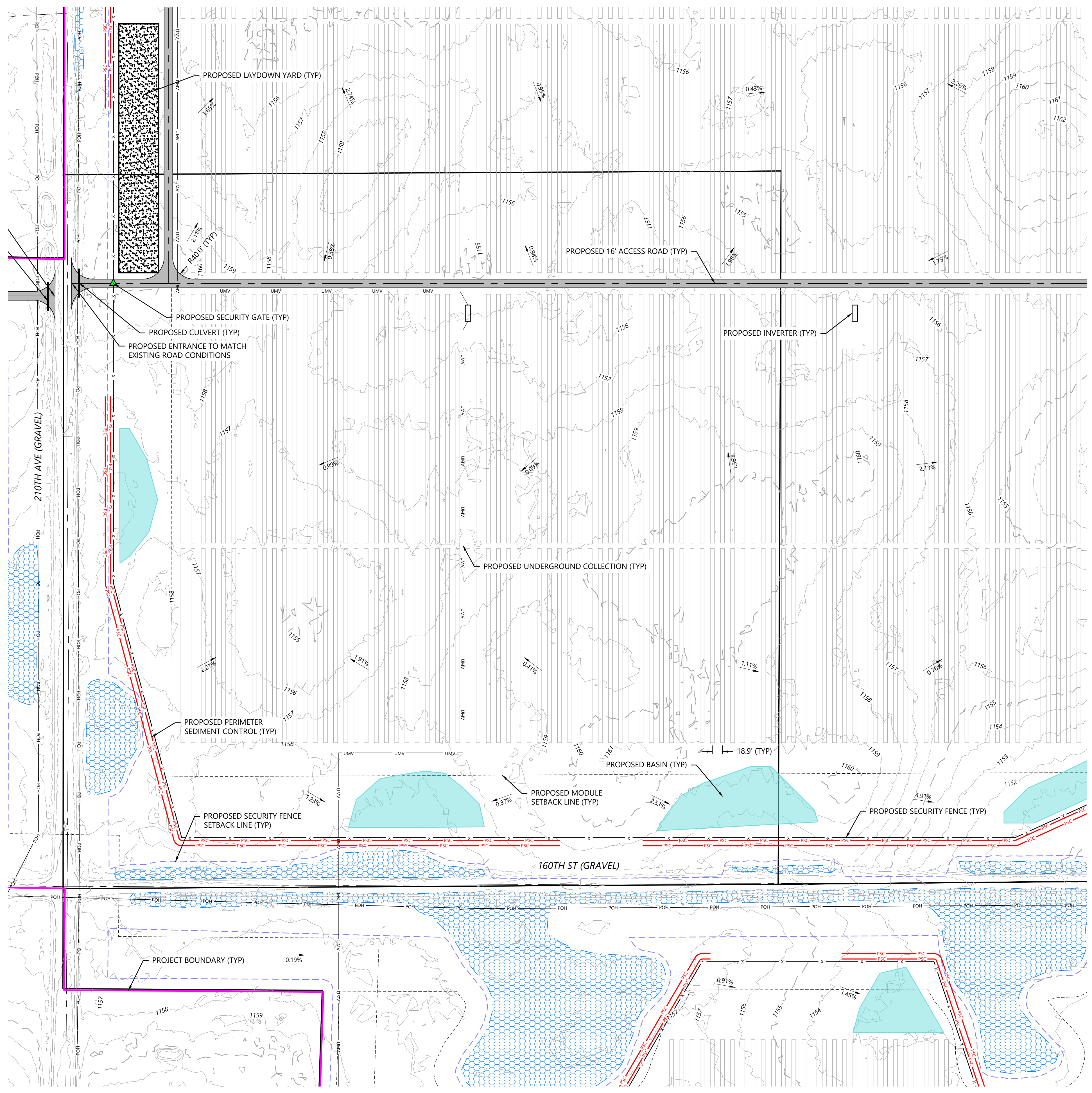
PREPARED FOR:



8400 Normandale Lake Blvd, Suite 1200
 Bloomington, MN 55347

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
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B	03/12/2025	Permit Plans	AW	BV	BV
C	03/28/2025	Permit Plans with BESS	AW	BV	BV

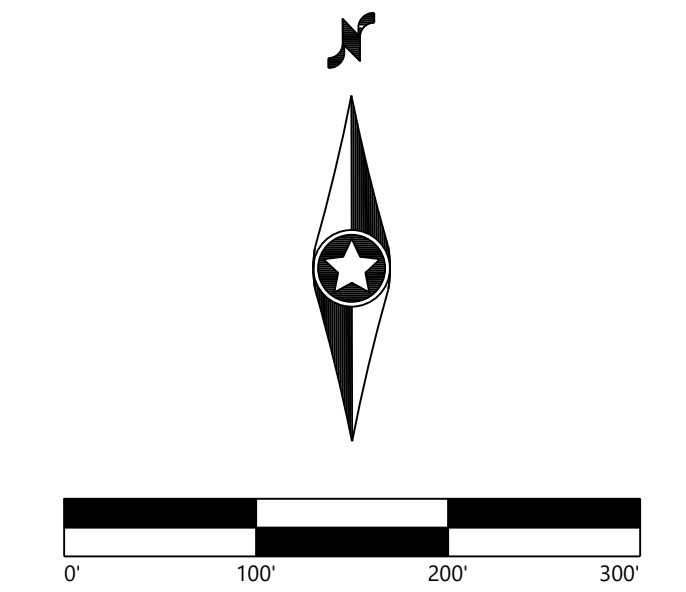


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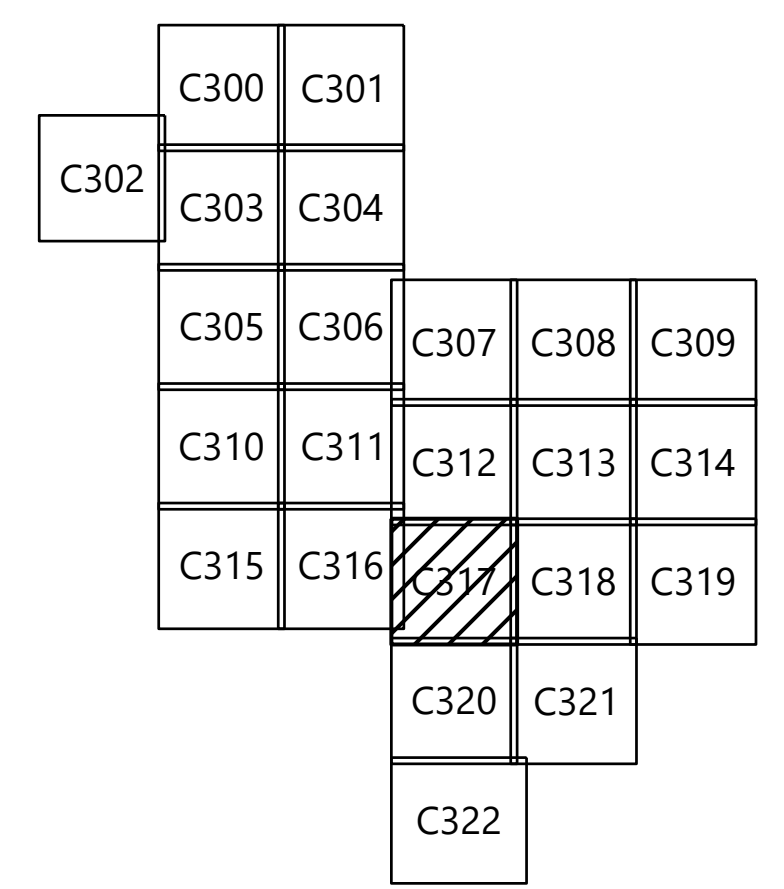
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KEY MAP:



Lake Charlotte Solar Project

Martin County, Minnesota

Civil Site Plan - 18

ISSUED FOR PERMIT
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DATE: 03/28/2025 REV: C
 SHEET: C317

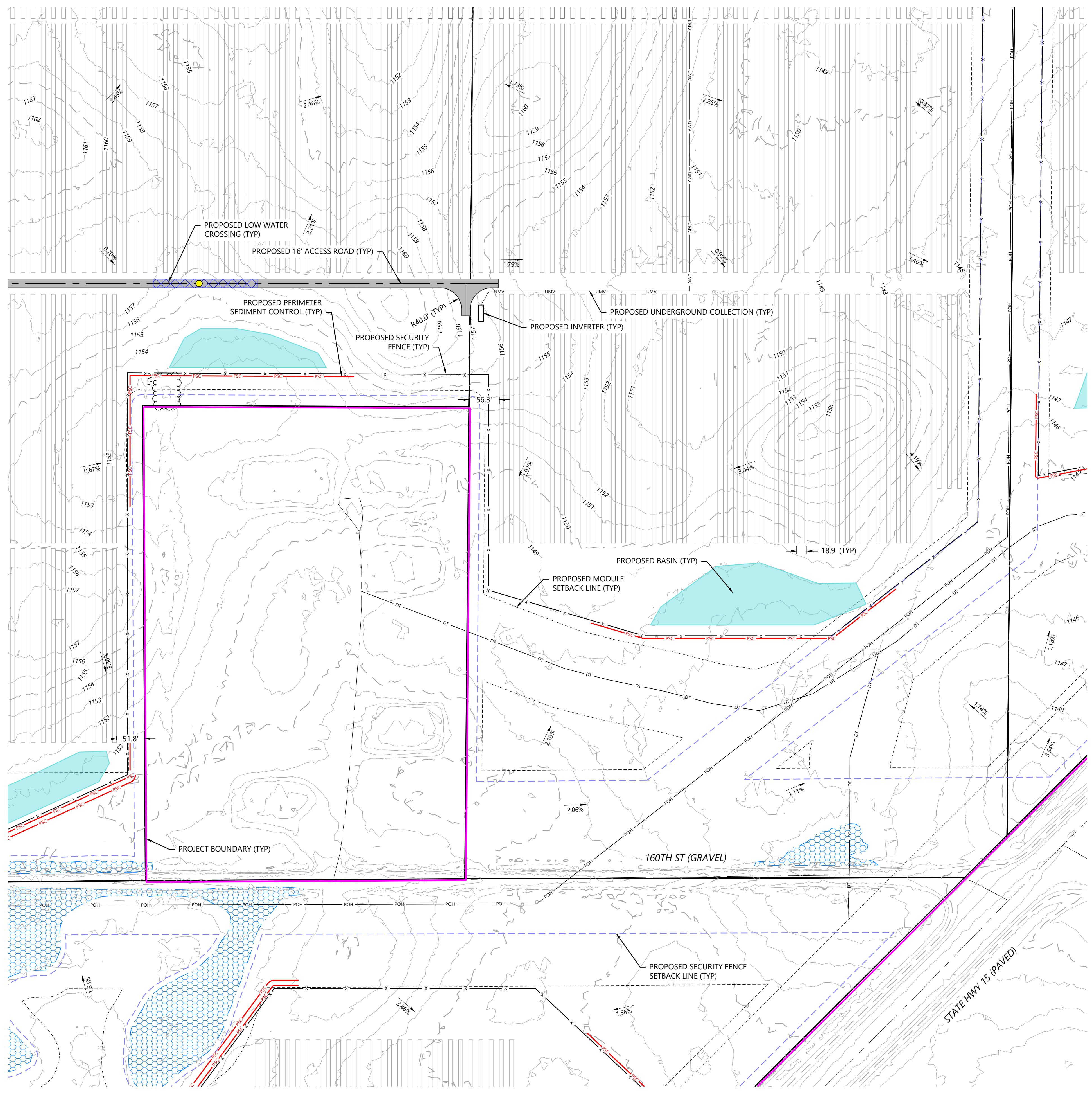
PREPARED FOR:



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 Bloomington, MN 55347

REVISIONS:

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C	03/28/2025	Permit Plans with BESS	AW	BV	BV

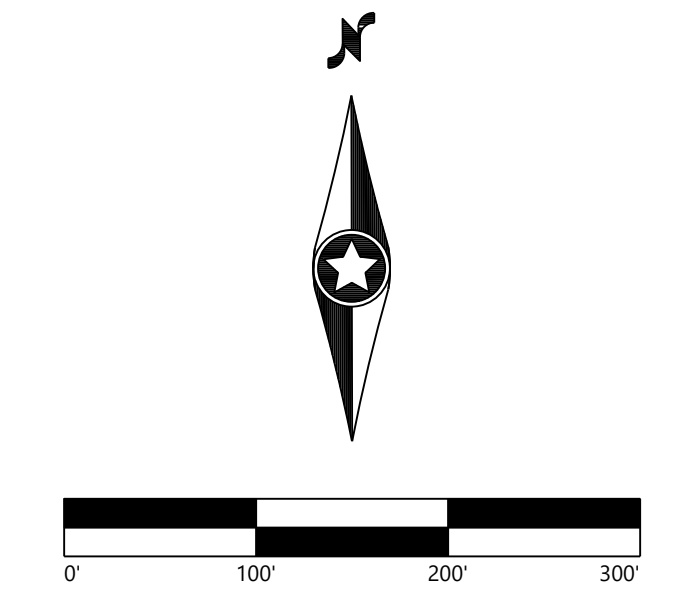


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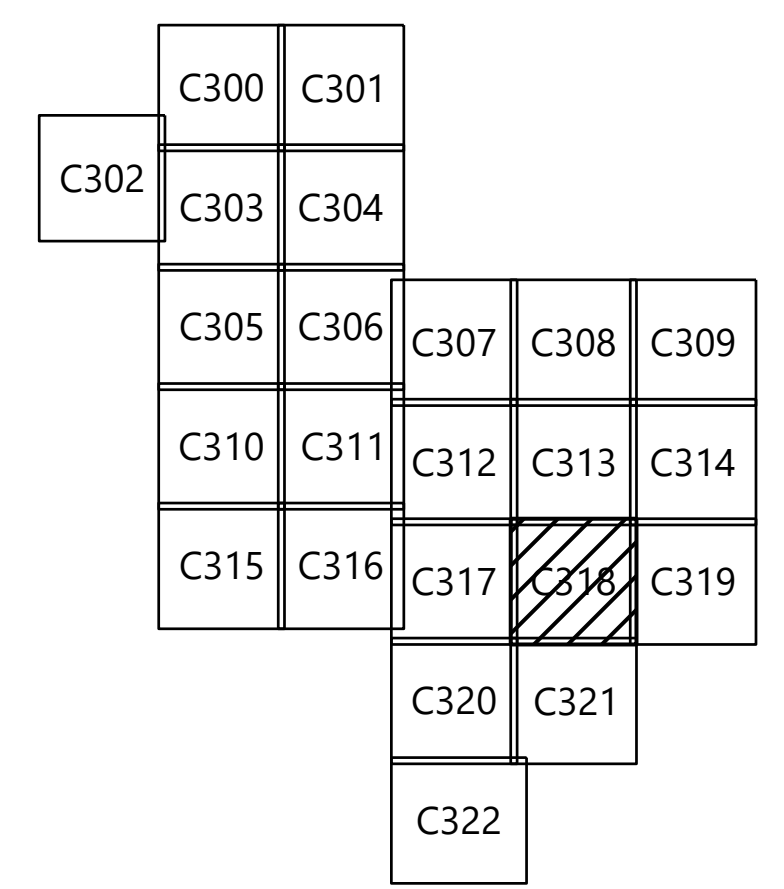
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KEY MAP:



Lake Charlotte Solar Project
 Martin County, Minnesota

Civil Site Plan - 19

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DATE: 03/28/2025 REV: C
 SHEET: C318

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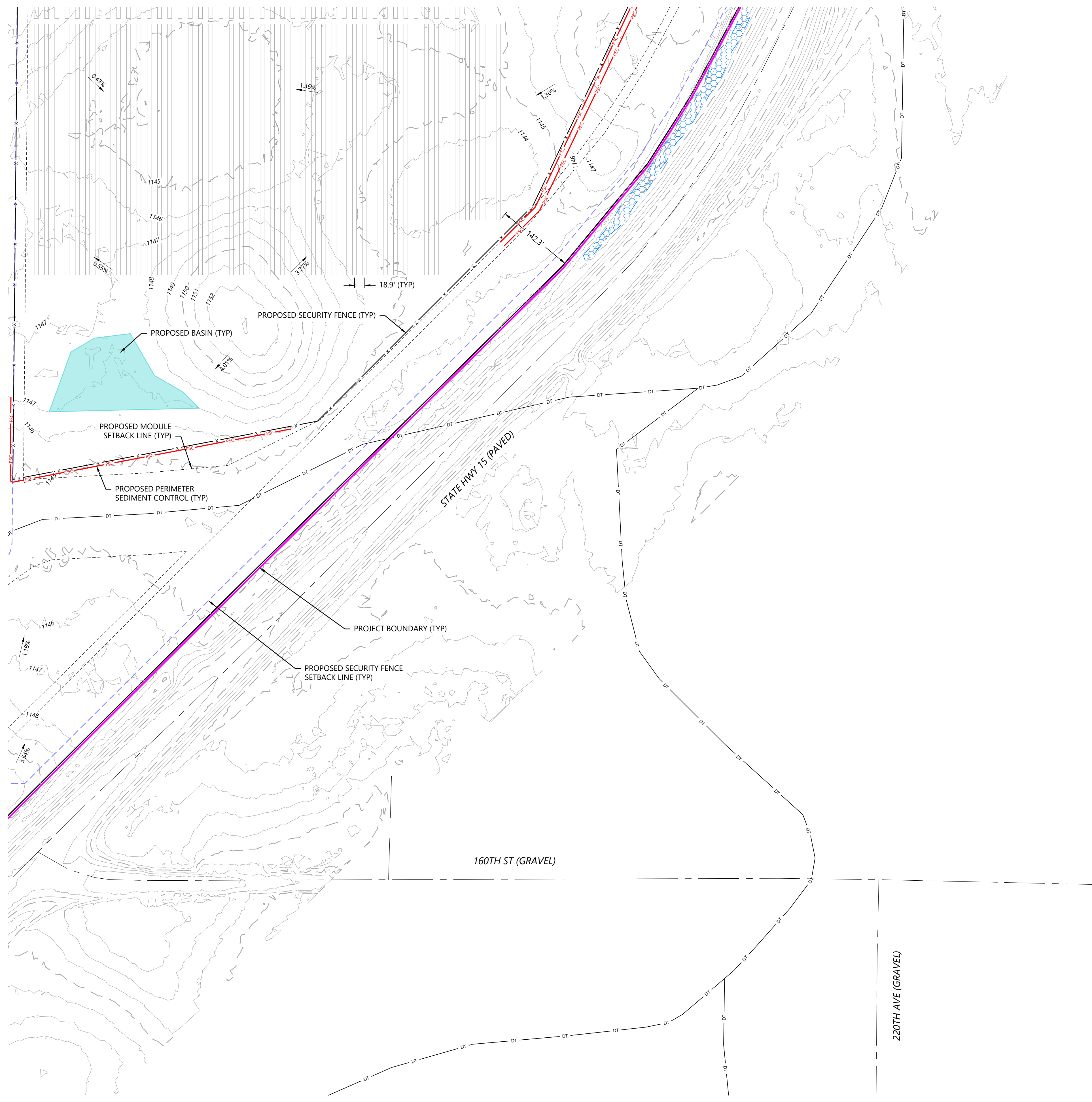
PREPARED FOR:



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 Bloomington, MN 55347

REVISIONS:

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B	03/12/2025	Permit Plans	AW	BV	BV
C	03/28/2025	Permit Plans with BESS	AW	BV	BV

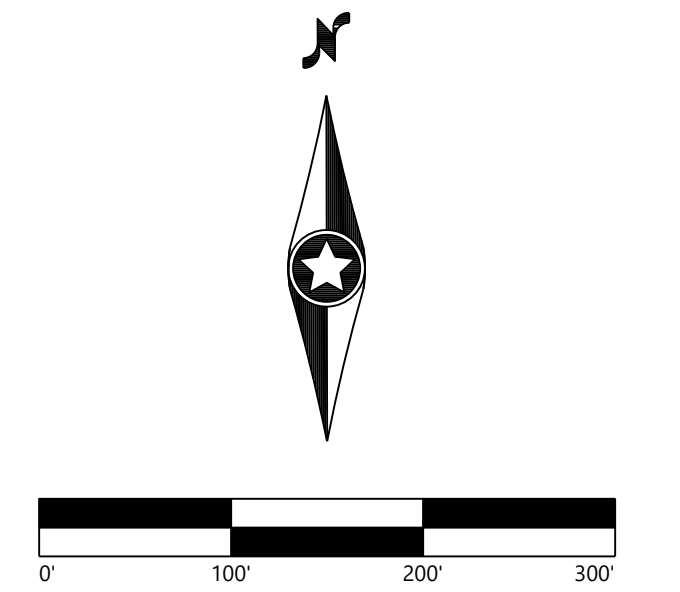


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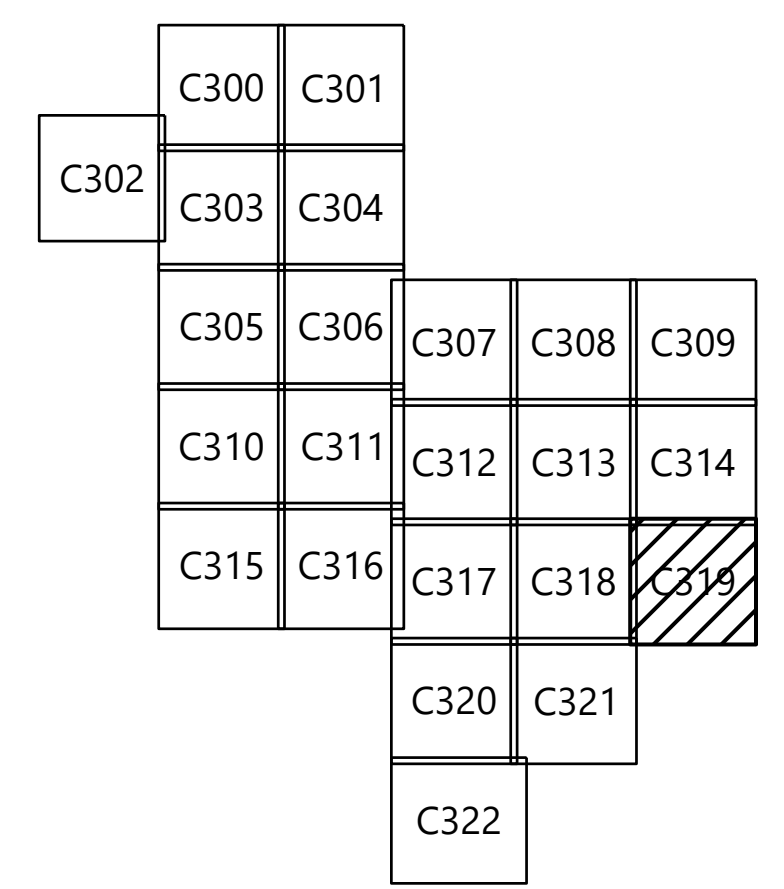
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- EX. INDEX CONTOUR
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6. FURTHER DESIGN REQUIRED TO SHOW PROPOSED GRADING DISTURBANCE AREAS AND ADDITIONAL EROSION CONTROL BMPs.



KEY MAP:



Lake Charlotte Solar Project

Martin County, Minnesota

Civil Site Plan - 20

ISSUED FOR PERMIT
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DATE: 03/28/2025

SHEET: C319

REV: C

25/03/2025 09:05 CAD: C:\work\2025\SP-01.dwg 3/28/2025 10:37 AM Brett Vonnahme

PREPARED FOR:



8400 Normandale Lake Blvd, Suite 1200
 Bloomington, MN 55347

REVISIONS:

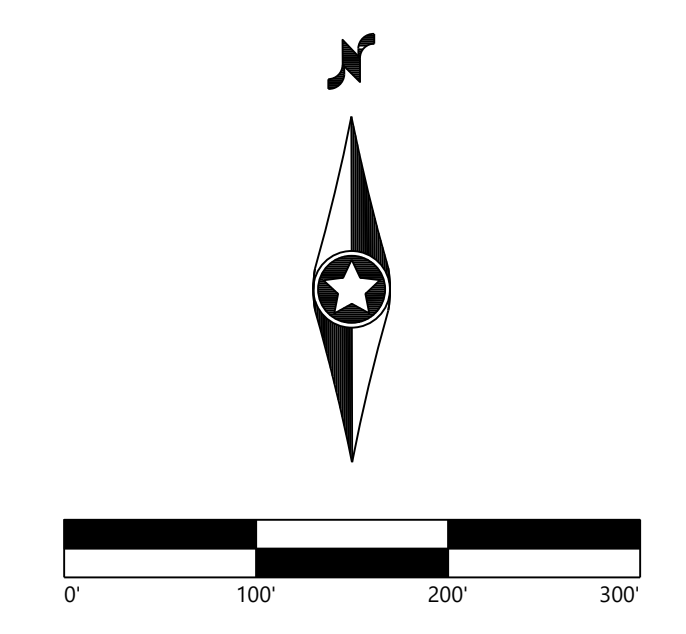
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A	03/03/2025	Permit Plans	AW	BV	BV
B	03/12/2025	Permit Plans	AW	BV	BV
C	03/28/2025	Permit Plans with BESS	AW	BV	BV

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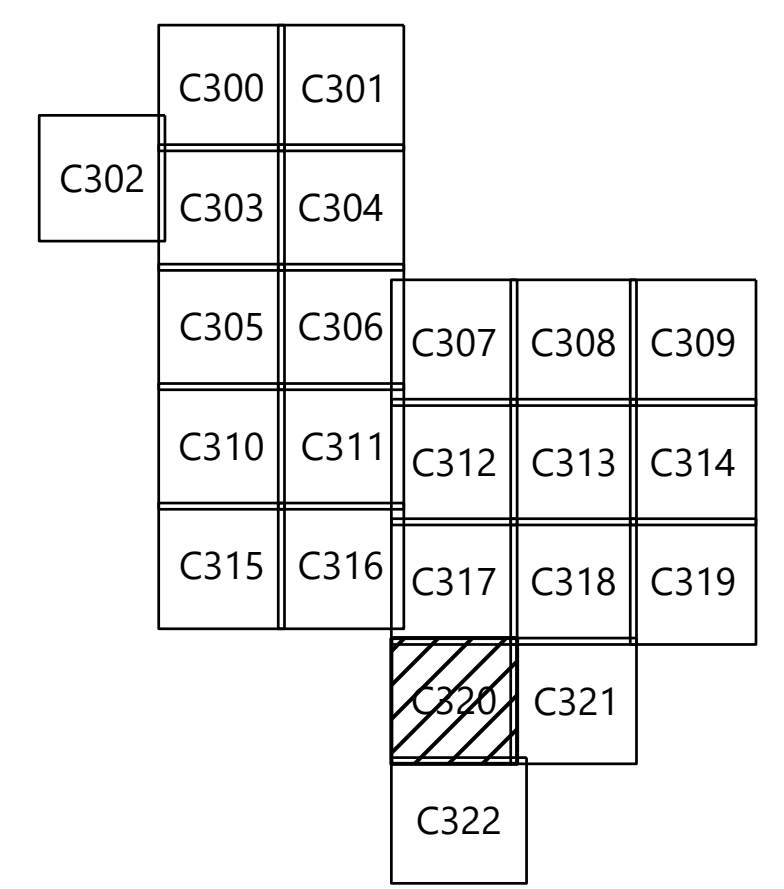
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- EX. ROAD CENTERLINES
- EX. PARCEL LINE
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. TREELINE
- EX. OVERHEAD POWER
- EX. GAS PIPELINE
- EX. DRAINTILE
- EX. DRAINTILE PROPOSED TO BE ABANDONED
- EX. STREAM CHANNEL
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- PROPOSED SOLAR ARRAY
- PROPOSED ALTERNATE SOLAR ARRAY
- PROPOSED ELECTRICAL EQUIPMENT
- PROPOSED UNDERGROUND COLLECTION
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- POINT OF INTERCONNECTION
- PROPOSED MODULE SETBACK
- PROPOSED SECURITY FENCE SETBACK
- PROPOSED DRAINAGE SWALE
- PROPOSED ACCESS ROAD
- PROPOSED SECURITY FENCE
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- PROPOSED LANDSCAPE SCREENING BUFFER

NOTES:

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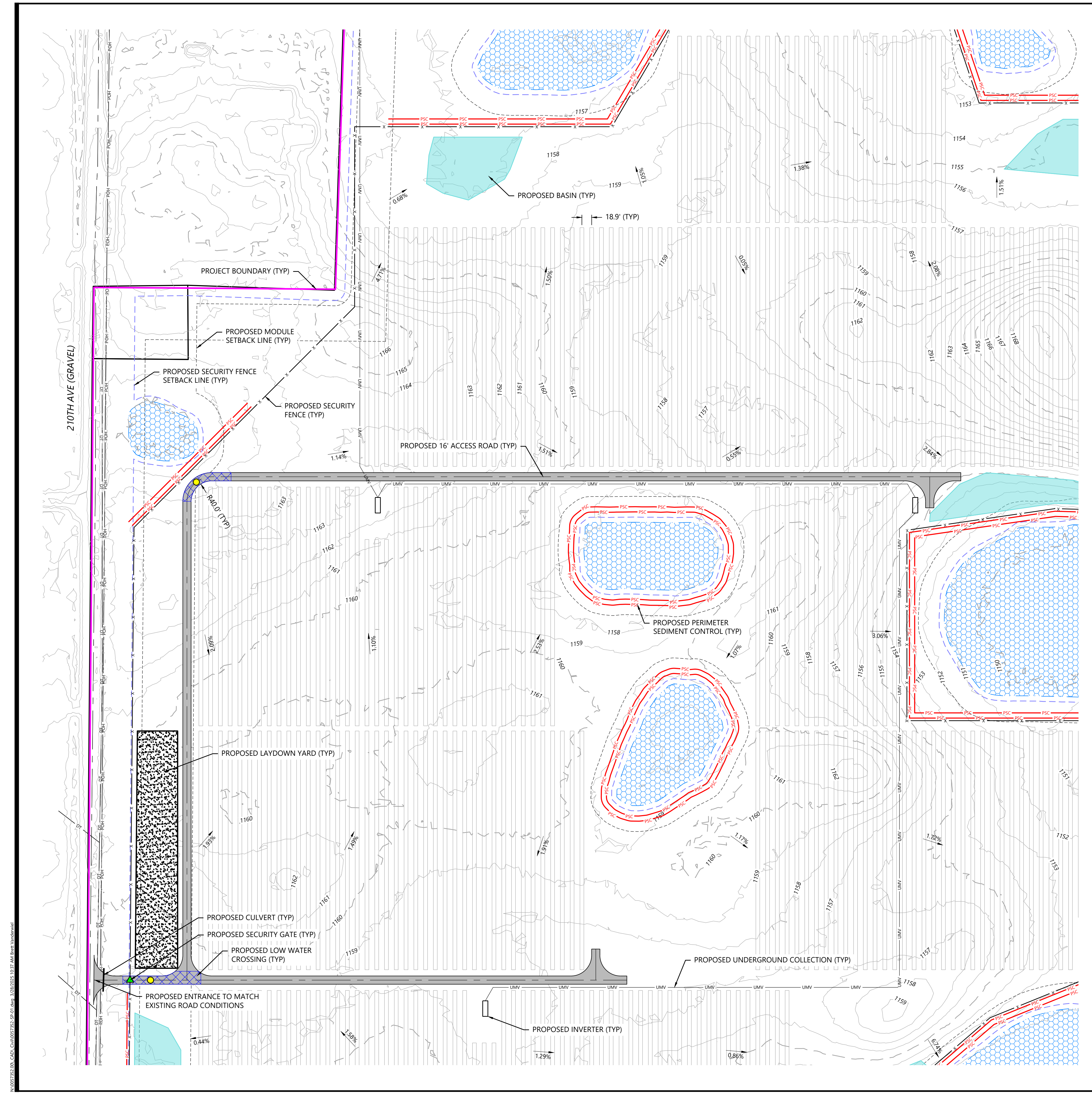


Lake Charlotte Solar Project
 Martin County, Minnesota

Civil Site Plan - 21

**ISSUED FOR PERMIT
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DATE: 03/28/2025 REV:
 SHEET: C320 C



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PREPARED FOR:



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 Bloomington, MN 55347

REVISIONS:

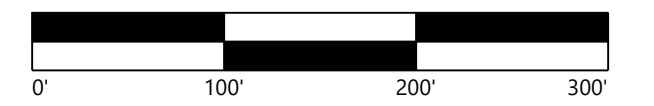
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B	03/12/2025	Permit Plans	AW	BV	BV
C	03/28/2025	Permit Plans with BESS	AW	BV	BV

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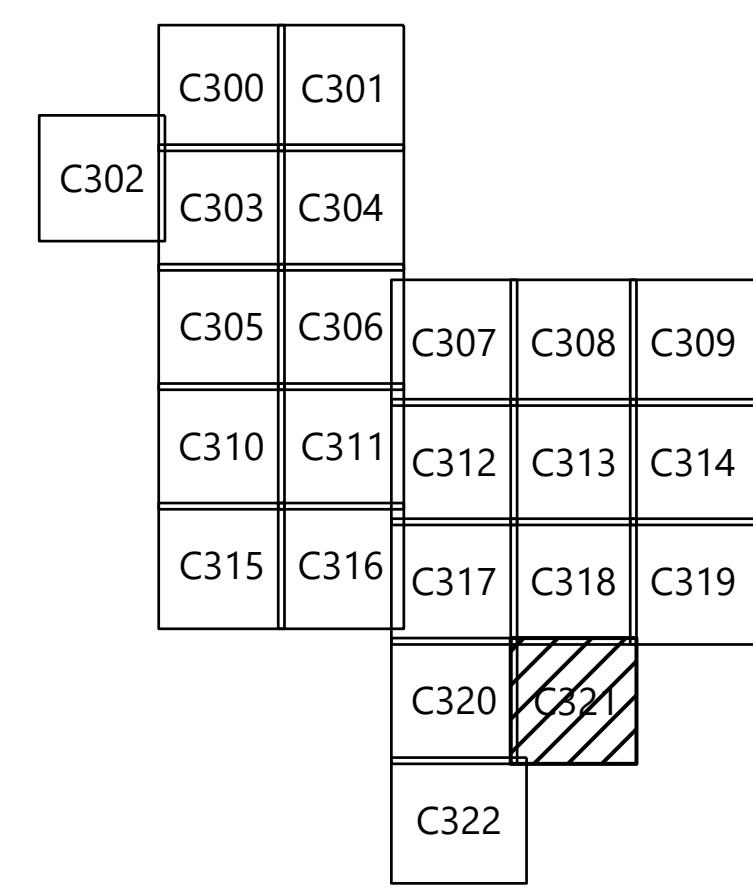
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- EX. TREELINE
- EX. OVERHEAD POWER
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KEY MAP:



Lake Charlotte Solar Project

Martin County, Minnesota

Civil Site Plan - 22

**ISSUED FOR PERMIT
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DATE: 03/28/2025

SHEET: C321

REV: C

24/03/2025 09:56:00 AM C:\Users\jgallagher\OneDrive\Documents\Projects\Lake Charlotte\24032825\24032825_22.dwg 24/03/2025 10:37 AM Brett Vandermolen



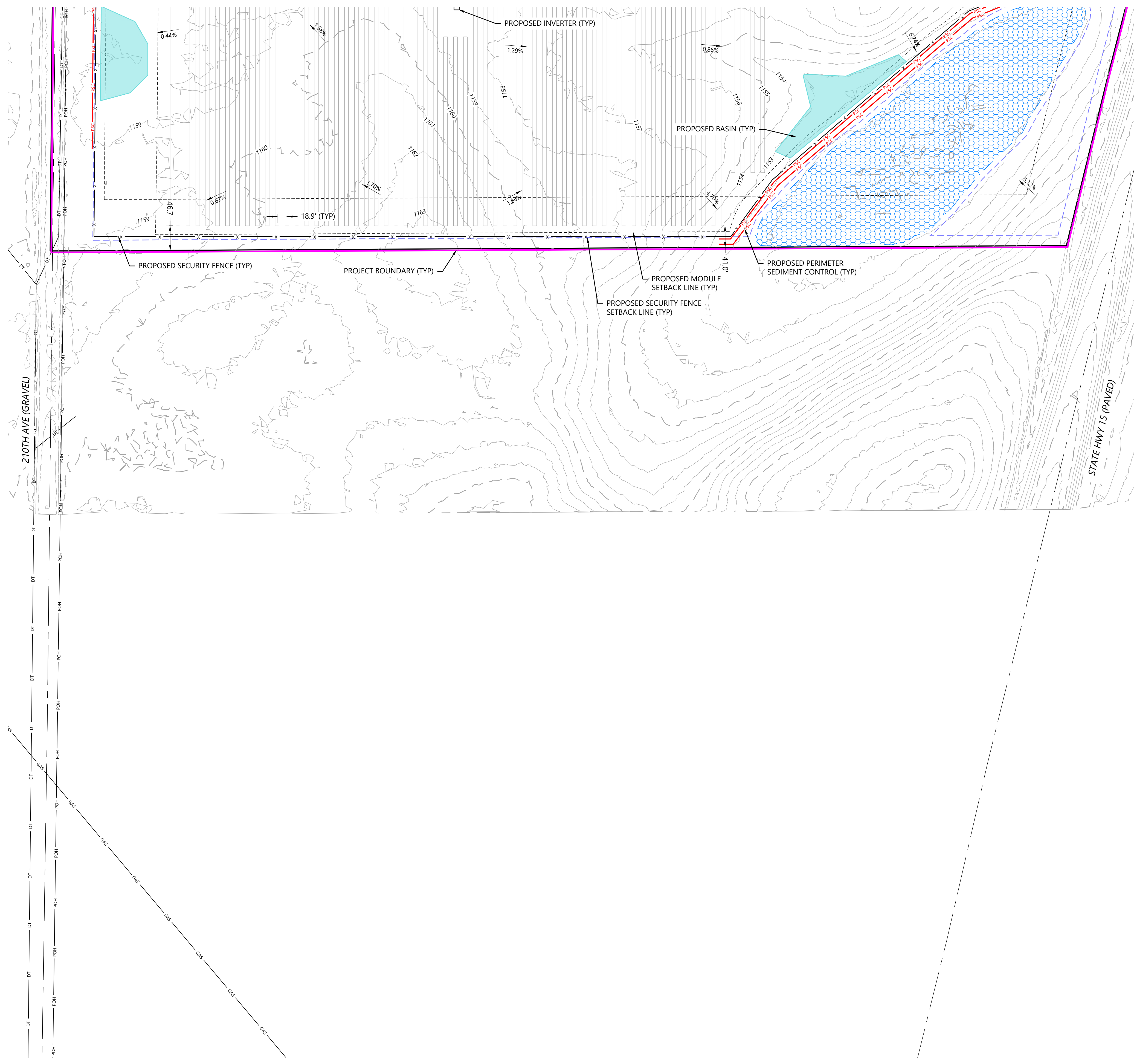
PREPARED FOR:



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 Bloomington, MN 55347

REVISIONS:

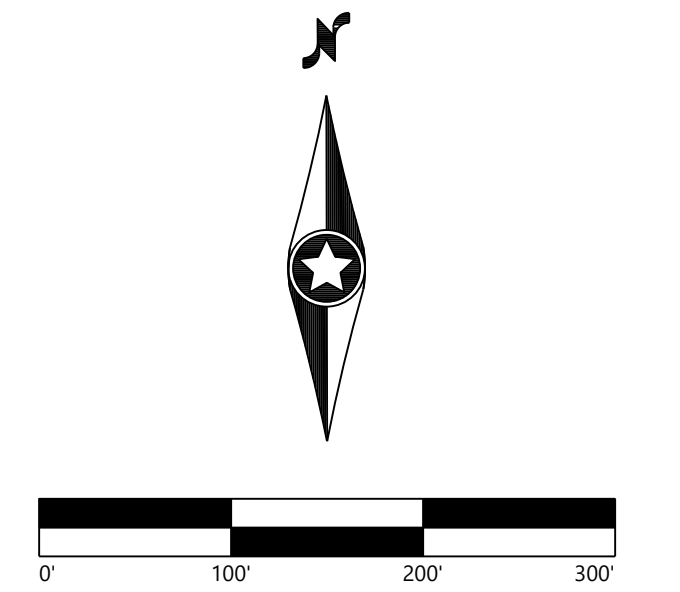
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B	03/12/2025	Permit Plans	AW	BV	BV
C	03/28/2025	Permit Plans with BESS	AW	BV	BV



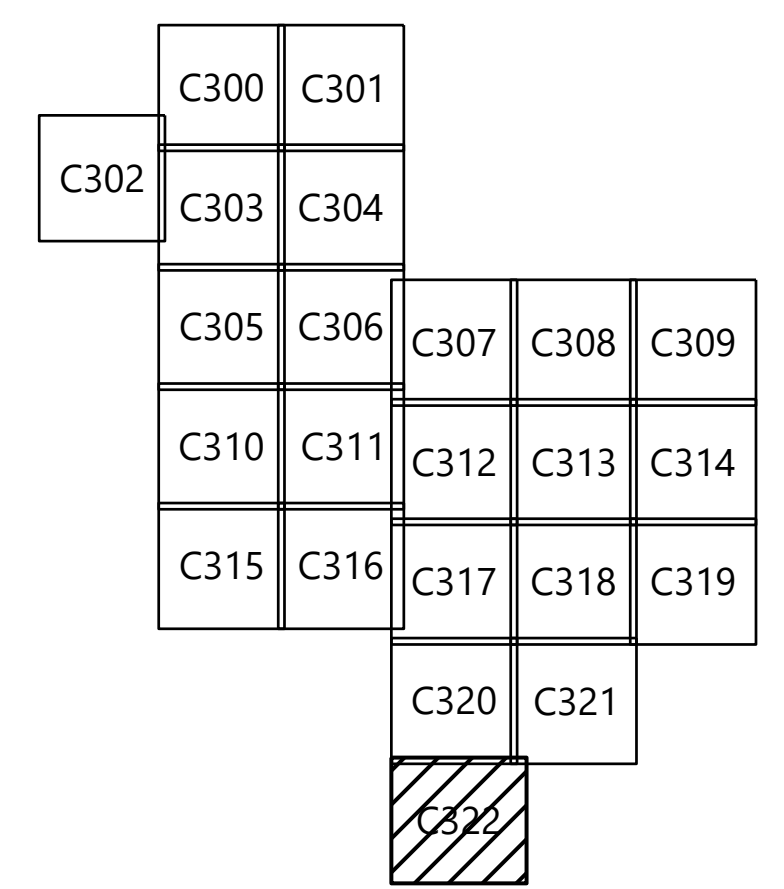
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- PROJECT BOUNDARY
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 - EX. PARCEL LINE
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 - EX. INTERVAL CONTOUR
 - EX. TREELINE
 - EX. OVERHEAD POWER
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KEY MAP:



Lake Charlotte Solar Project
 Martin County, Minnesota

Civil Site Plan - 23

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DATE: 03/28/2025 REV:
 SHEET: C322 C

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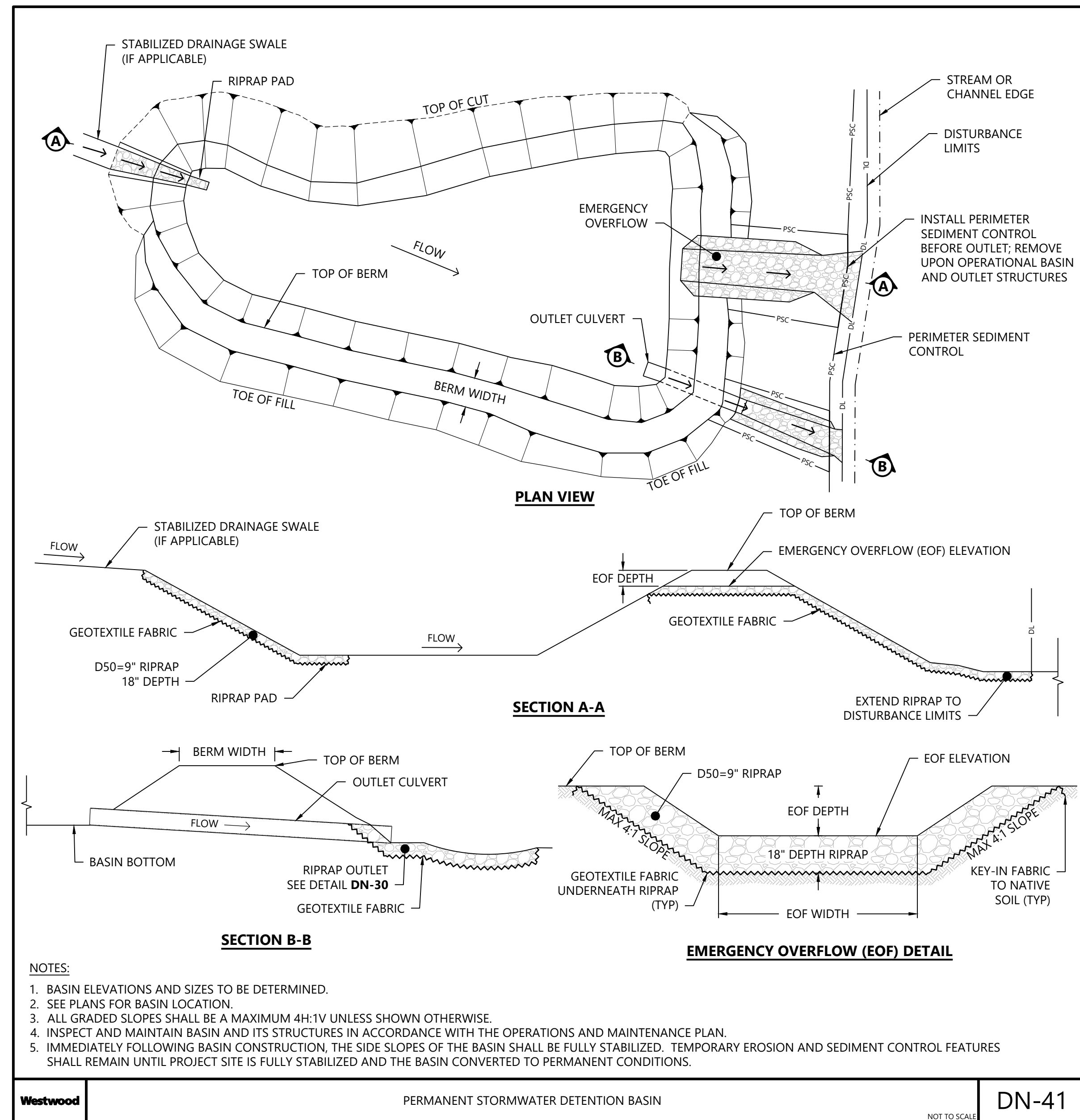
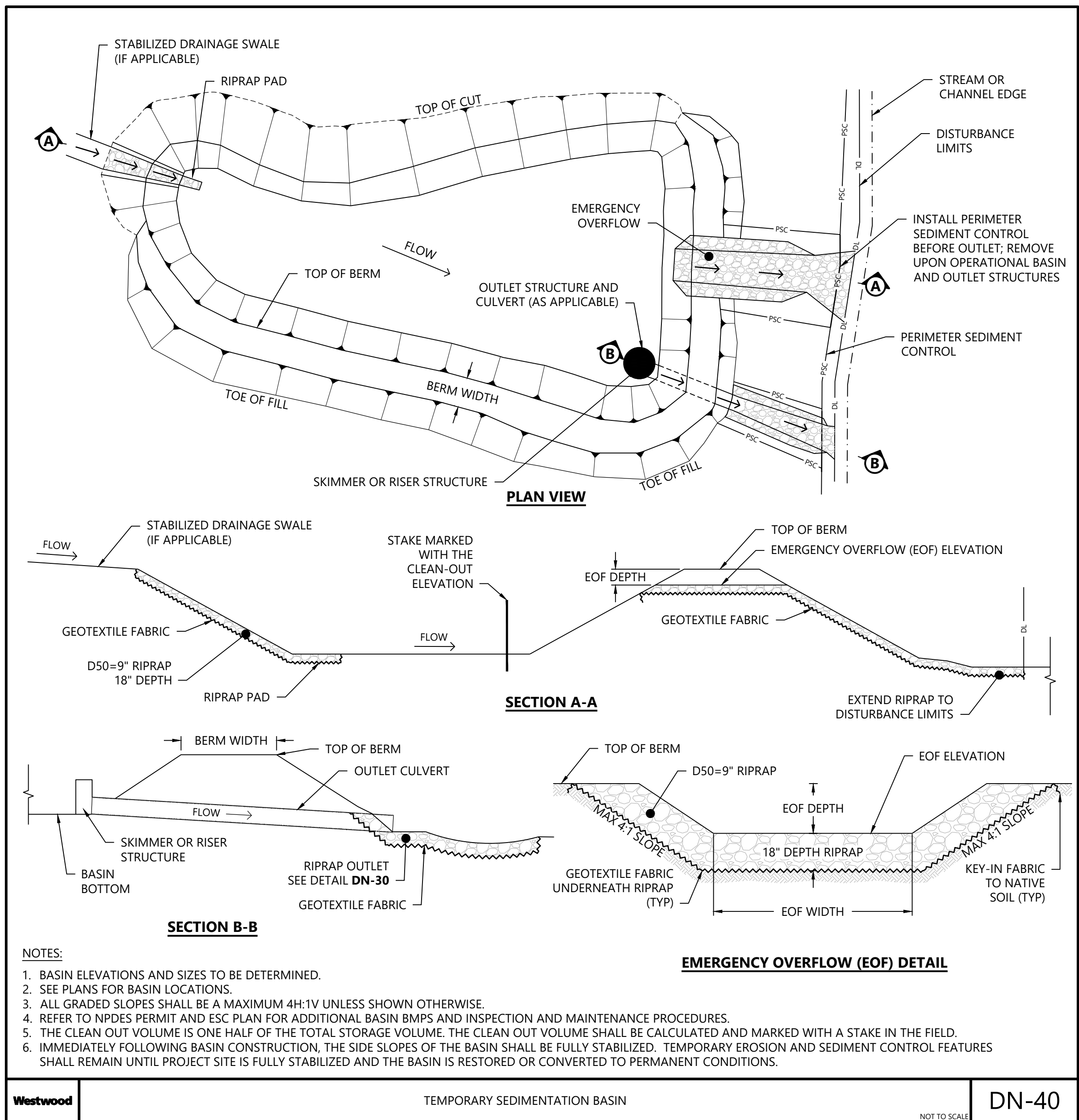
PREPARED FOR:



8400 Normandale Lake Blvd, Suite 1200
 Bloomington, MN 55347

REVISIONS:

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A	03/03/2025	Permit Plans	AW	BV	BV
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C	03/28/2025	Permit Plans with BESS	AW	BV	BV



**Lake Charlotte
 Solar Project**
 Martin County, Minnesota

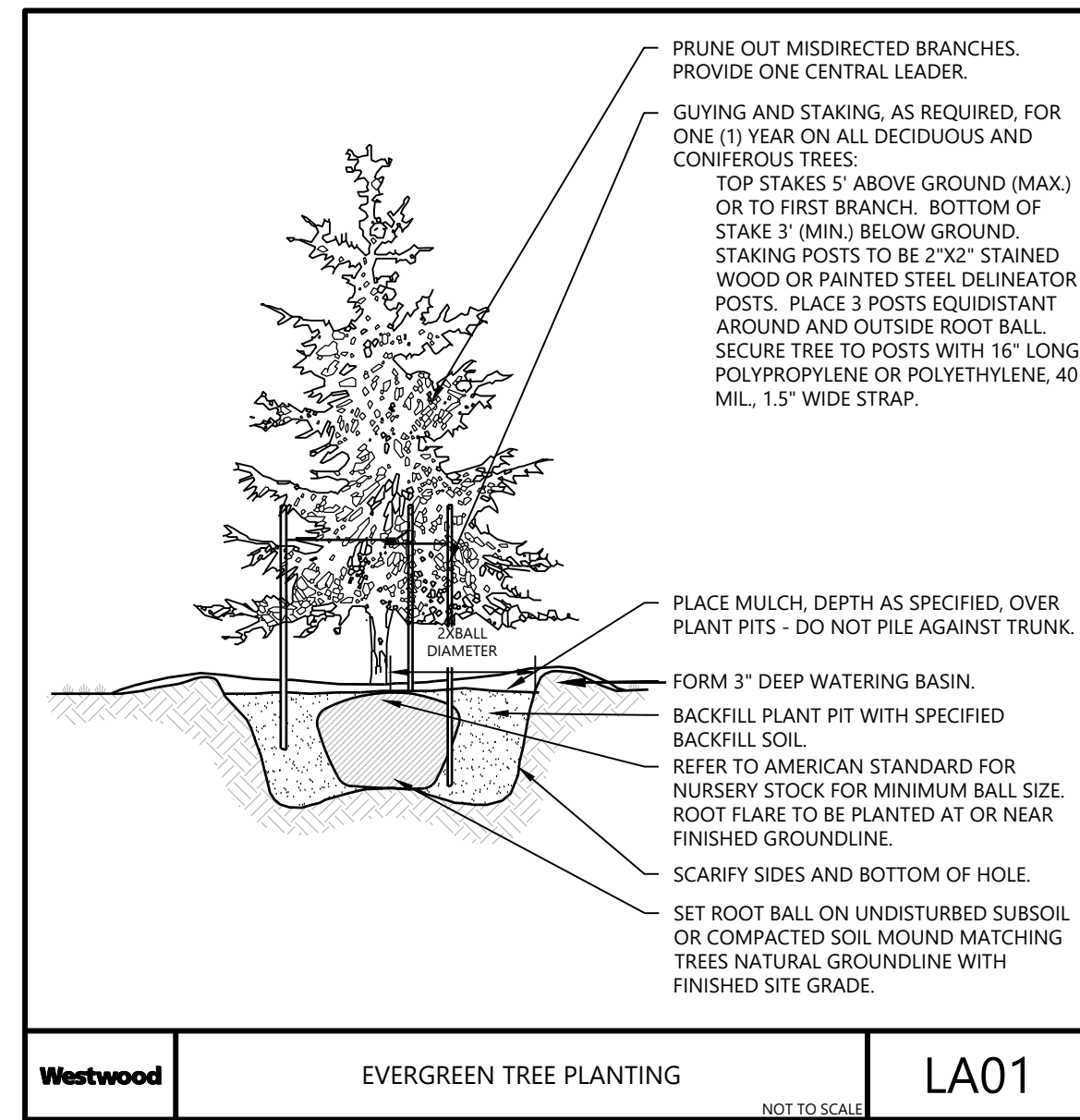
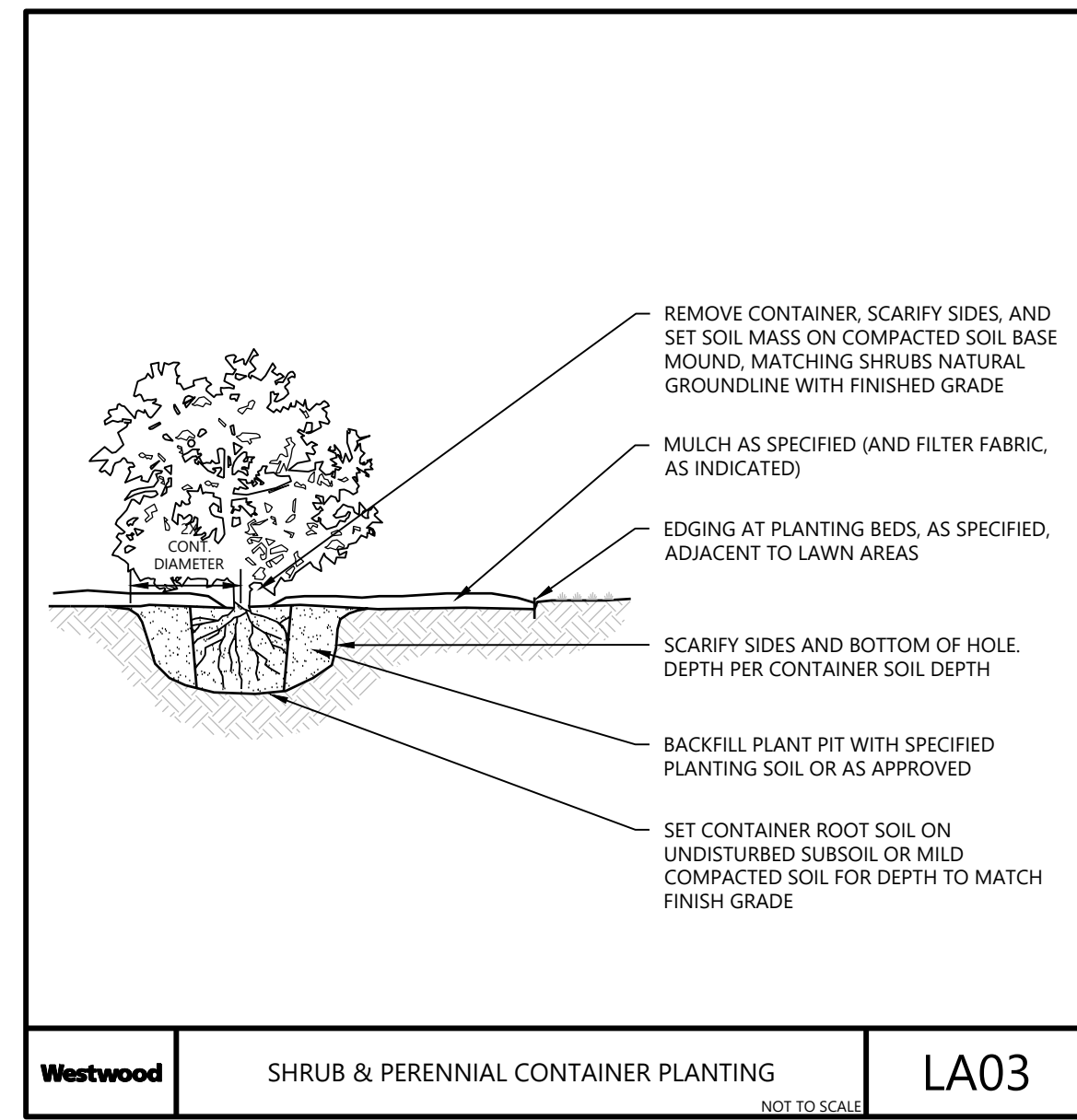
Construction Details

NOT FOR CONSTRUCTION

DATE: 03/28/2025 REV: C
 SHEET: C702 C

2/20/25 10:50 AM CAD: C:\Users\jst521\OneDrive\Documents\2025\03\28\2025\1038\AW Basin Westwood

PLANTING DETAILS



VEGETATIVE SCREENING SELECTION & INTENT

THE PROPOSED PLANS INCLUDE INSTALLING VEGETATIVE LANDSCAPE BUFFERS WHICH UTILIZE, TO THE EXTENT COMMERCIALY PRACTICABLE, NATIVE TREES AND SHRUBS THAT GROW WELL IN THIS CLIMATE AT STRATEGIC LOCATIONS ACROSS THE PROJECT SITE TO LIMIT DIRECT VIEWS OF THE ARRAY. ONE BENEFIT TO USING NATIVE PLANTS IS THAT THEY ARE ACCLIMATED TO THE PARTICULAR CLIMATE AND ENVIRONMENTAL CONDITIONS, THUS ALLOWING FOR A QUICKER ESTABLISHMENT AND INCREASED SURVIVAL RATES. THE PROPOSED VEGETATIVE LANDSCAPE BUFFERS ARE COMPOSED OF EVERGREEN TREES THAT CAN PROVIDE LUSH GREEN YEAR ROUND SCREENING AND DECIDUOUS SHRUBS THAT CAN HELP PROVIDE ADDITIONAL SCREENING AND BE VISUALLY APPEALING ACROSS MULTIPLE SEASONS. SOME OF THE CHARACTERISTICS THAT THESE NATIVE SHRUBS HAVE BEEN SELECTED FOR INCLUDE FOLIAGE AND STEM COLOR, FLOWERS AND FRUIT PRODUCTION. THE SHRUBS PROPOSED TO BE PLANTED IN SMALL MASSES SO THAT AT ANY ONE TIME IN THE YEAR ONE SPECIES MIGHT DISPLAY SOME OF THESE AESTHETIC CHARACTERISTICS. BEYOND THE AESTHETIC VALUE, THE PROPOSED PLANTS CAN PROVIDE ADDITIONAL WILDLIFE BENEFITS THAT INCLUDE A SOURCE FOR POLLINATORS, SHELTER, FORAGE AND WINTER HABITAT, AS THE PLANTS MATURE THEY WILL GROW CLOSER TOGETHER CREATING A TYPE OF NATURAL HEDGE.

PRELIMINARY BUFFER & SCREENING PLANT MATERIAL

Common Ninebark



Winged Sumac



Prairie Willow



American Elderberry



Mapleleaf Viburnum



Arrowwood Viburnum



Eastern Red Cedar



White Pine



American Arborvitae



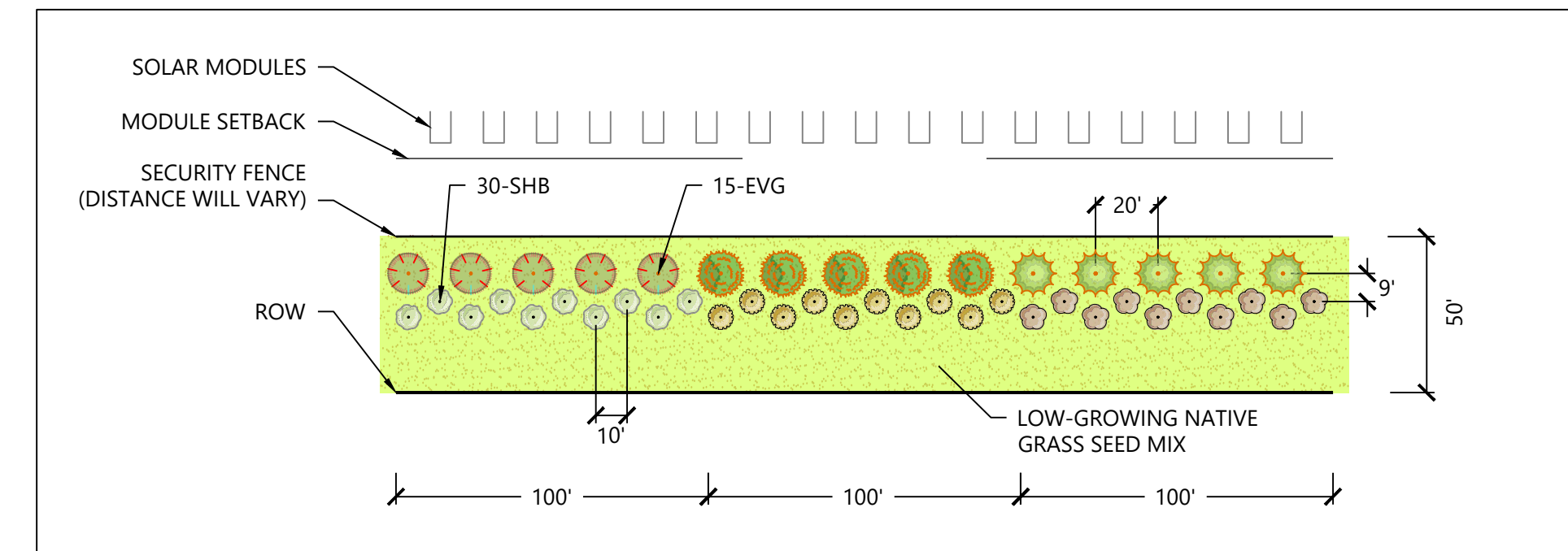
PRELIMINARY BUFFER & SCREENING PLANT SPECIES LIST

COMMON / BOTANICAL NAME	SIZE	ROOT	MATURE HEIGHT	MATURE WIDTH
TREES				
EASTERN REDCEDAR / JUNIPERUS VIRGINIANA	6' HT.	B&B	25 - 40FT. HT.	15 - 25FT. W.
WHITE PINE / PINUS STROBUS	6' HT.	B&B	40 - 65FT. HT.	25 - 40FT. W.
AMERICAN ARBORVITAE / THUJA OCCIDENTALIS	6' HT.	B&B	25 - 40FT. HT.	10 - 15FT. W.
SHRUBS				
NINEBARK / PHYSOCARPUS OPULIFOLIUS	#5 CONT.	AS SHOWN	6 - 10FT. HT.	3 - 6FT. W.
WINGED SUMAC / RHUS COPALLINUM	#5 CONT.	AS SHOWN	10 - 15FT. HT.	6 - 10FT. W.
PRAIRIE WILLOW / SALIX HUMILIS	#5 CONT.	AS SHOWN	10 - 15FT. HT.	6 - 10FT. W.
AMERICAN ELDERBERRY / SAMBUCUS CANADENSIS	#5 CONT.	AS SHOWN	10 - 15FT. HT.	10 - 15FT. W.
MAPLELEAF VIBURNUM / VIBURNUM ACERIFOLIUM	#5 CONT.	AS SHOWN	3 - 6FT. HT.	6 - 10FT. W.
ARROWWOOD VIBURNUM / VIBURNUM DENTATUM 'ARROWWOOD'	#5 CONT.	AS SHOWN	6 - 10FT. HT.	6 - 10FT. W.

- NOTES:
1. QUANTITIES ON PLAN SUPERSEDE LIST QUANTITIES IN THE EVENT OF A DISCREPANCY.
 2. B.B. SPECIFIES ROOT TYPE AS BALLED AND BURLAPPED.
 3. H.T. SPECIFIES MINIMUM SPECIMEN HEIGHT UPON INSTALLATION.
 4. #5 CONT. TO MEET MINIMUM SIZE REQUIREMENT OF 24"H OR 30"W FOR DECIDUOUS SHRUBS UPON INSTALLATION. IF PLANT SIZE UNAVAILABLE AT #5 CONT. UPSIZE CONTAINER UNTIL MINIMUM PLANT SIZE REQUIREMENT IS MET.
 5. PLANT SPECIES SUBJECT TO CHANGE BASED UPON AVAILABILITY AT TIME OF PLANTING

PROPOSED LANDSCAPE SCREENING

SCALE: 1" = 50'



Westwood

Phone (952) 937-5150 12701 Whitewater Drive, Suite #300
Toll Free (888) 937-5150 Minnetonka, MN, 55343
westwoodps.com
Westwood Professional Services, Inc.

PREPARED FOR:



8400 Normandale Lake Blvd, Suite 1200
Bloomington, MN 55347

REVISIONS:

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A	03/03/2025	Permit Plans	AW	BV	BV
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Lake Charlotte Solar Project

Martin County, Minnesota

Landscape Screening
Notes & Details

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DATE: 03/28/2025

SHEET: L100

REV:

C