

Appendix B

Site Plan

Lake Charlotte Solar Project

Martin County, Minnesota

Civil Permitting Plans

PREPARED FOR:

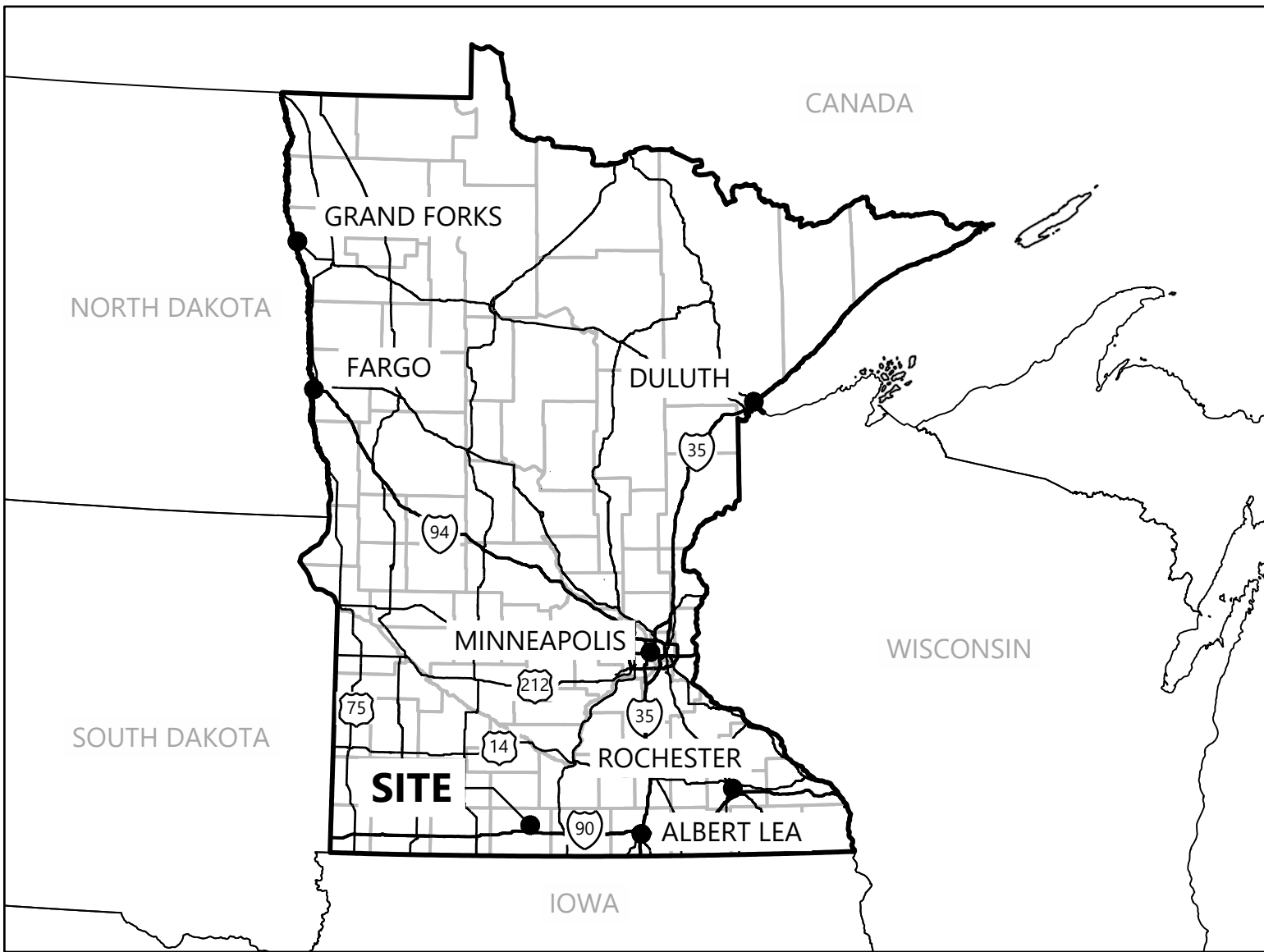


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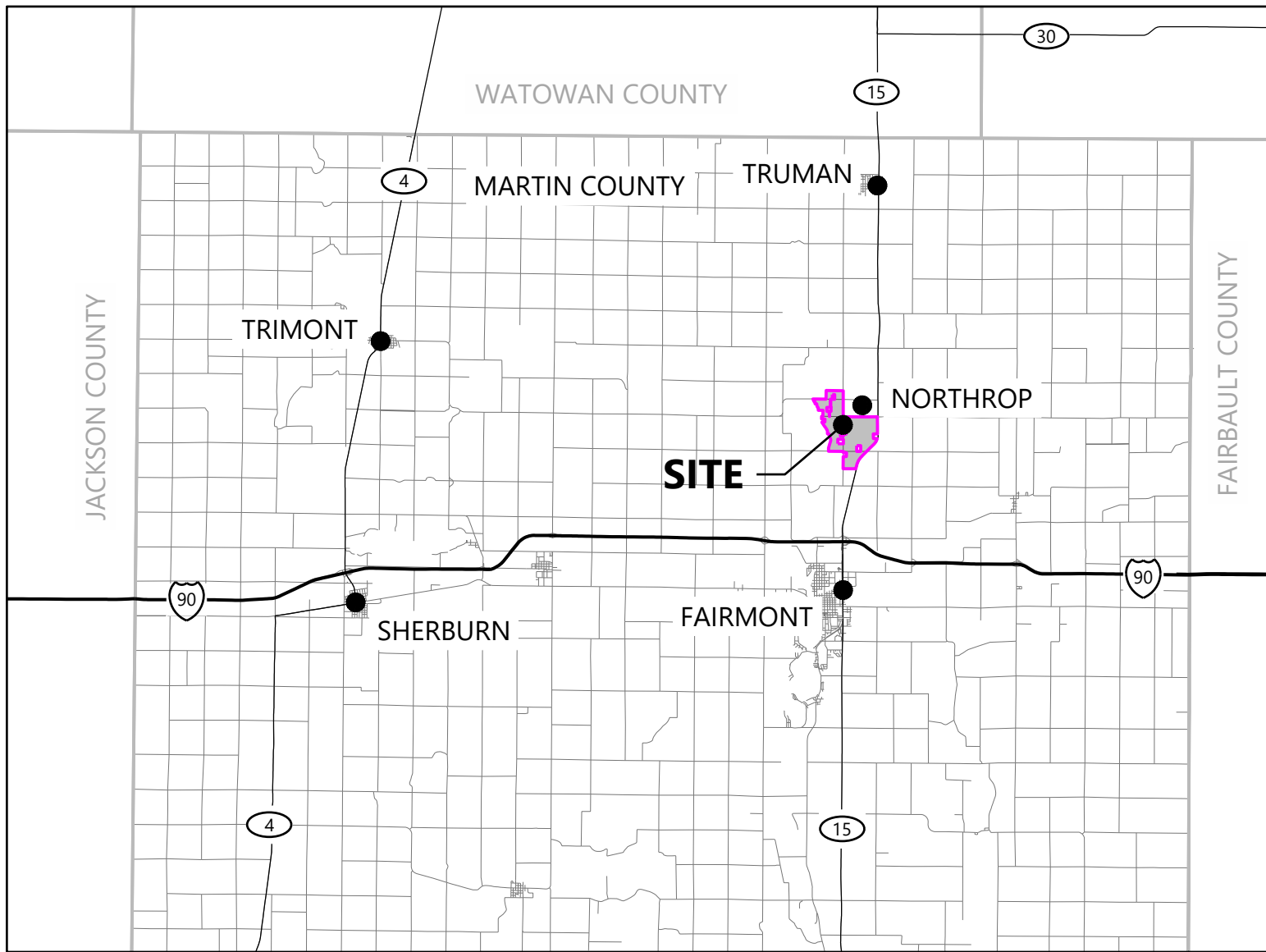
REVISIONS:

#	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	Lake Charlotte_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
CULTURAL RESOURCES	NWI_Wetlands.shp	National Map	1/14/2025
	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

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
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C201	BESS Proposed Layout
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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

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Westwood Professional Services, Inc.

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Lake Charlotte Solar Project

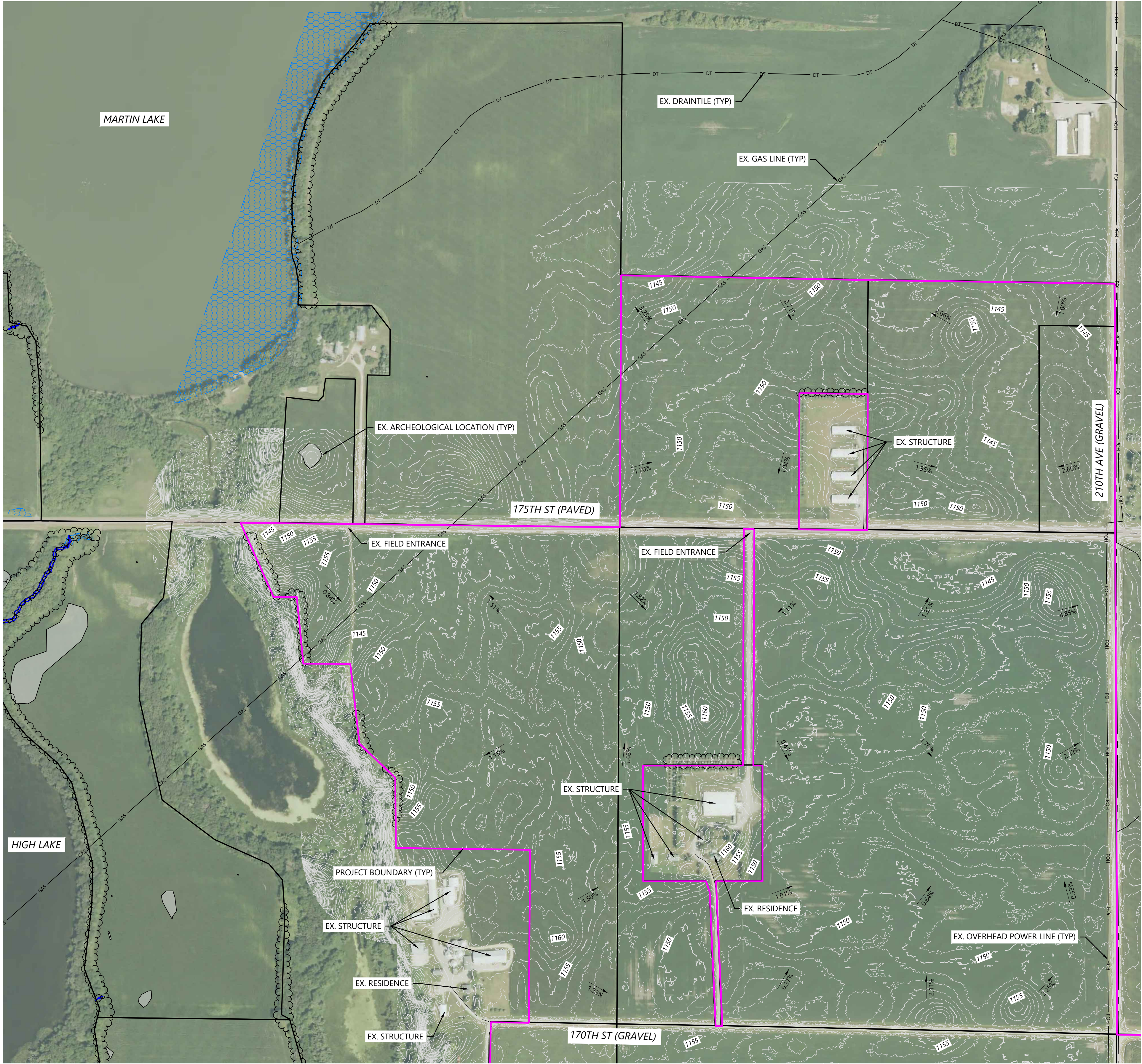
Martin County, Minnesota

Sheet Index

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DATE: 03/28/2025
SHEET: C002
REV: C

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- LEGEND:
- PROJECT BOUNDARY
 - EX. ROAD CENTERLINES
 - EX. PARCEL LINE
 - EX. INDEX CONTOUR
 - EX. INTERVAL CONTOUR
 - EX. TREELINE
 - EX. OVERHEAD POWER
 - EX. GAS PIPELINE
 - EX. DRAINTILE
 - EX. STREAM CHANNEL
 - 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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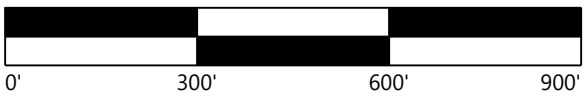
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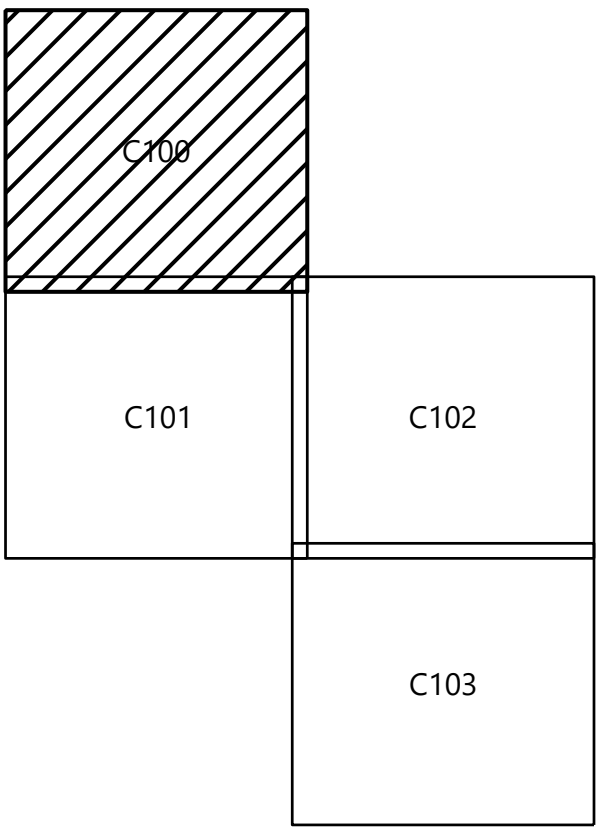


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KEY MAP:



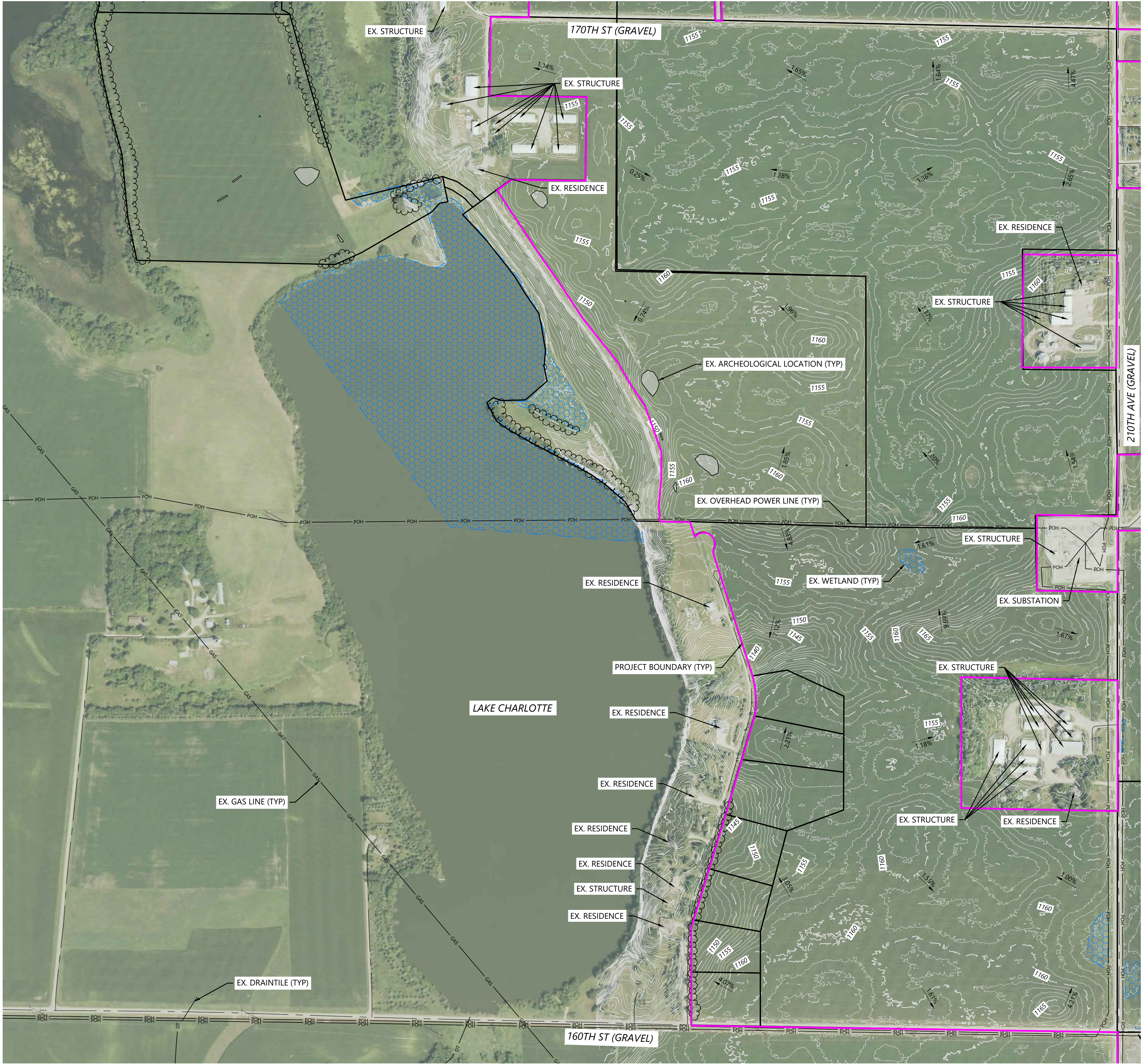
Lake Charlotte Solar Project

Martin County, Minnesota

Existing Conditions - 1

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- LEGEND:
- PROJECT BOUNDARY
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 - EX. PARCEL LINE
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 - EX. DRAINTILE PROPOSED TO BE ABANDONED

NOTES:

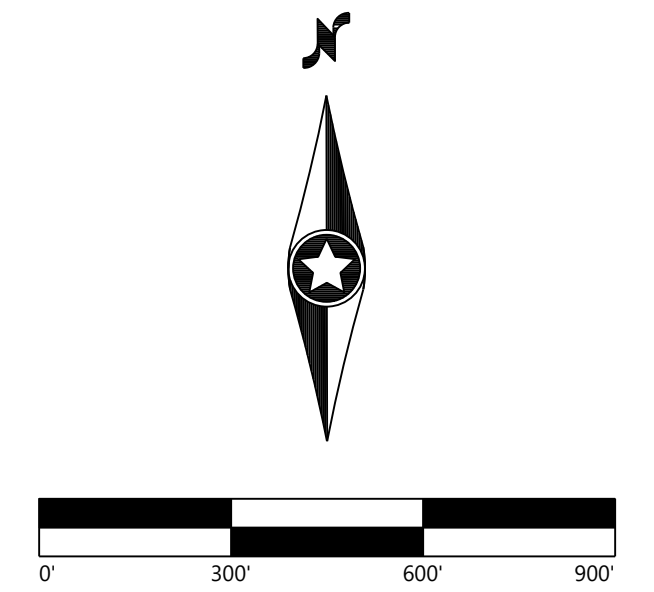
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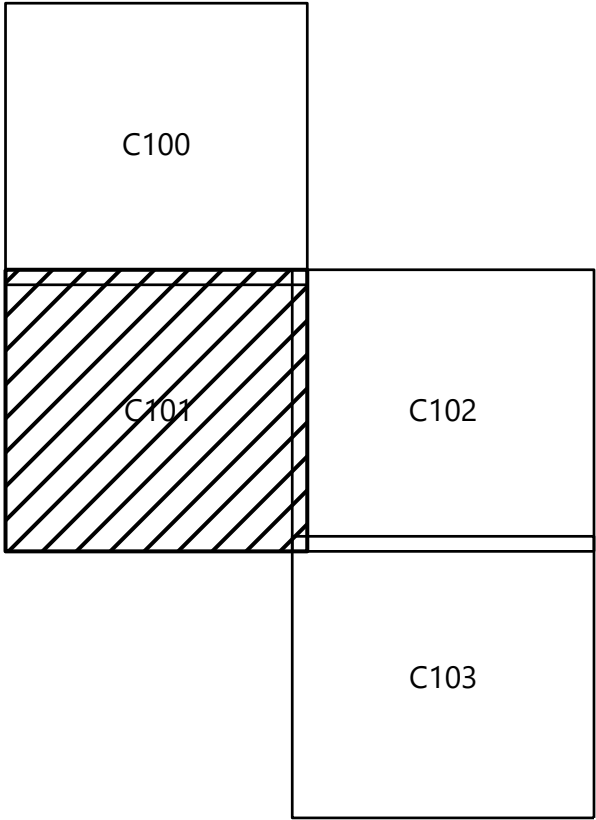
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KEY MAP:



Lake Charlotte Solar Project

Martin County, Minnesota

Existing Conditions - 2

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DATE: 03/28/2025
SHEET: C101
REV: C

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- LEGEND:
- PROJECT BOUNDARY
 - EX. ROAD CENTERLINES
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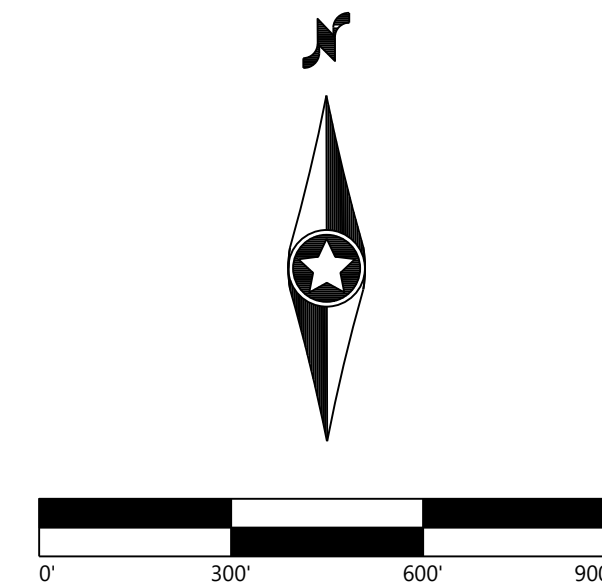
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Lake Charlotte Solar Project

Martin County, Minnesota

Existing Conditions - 3

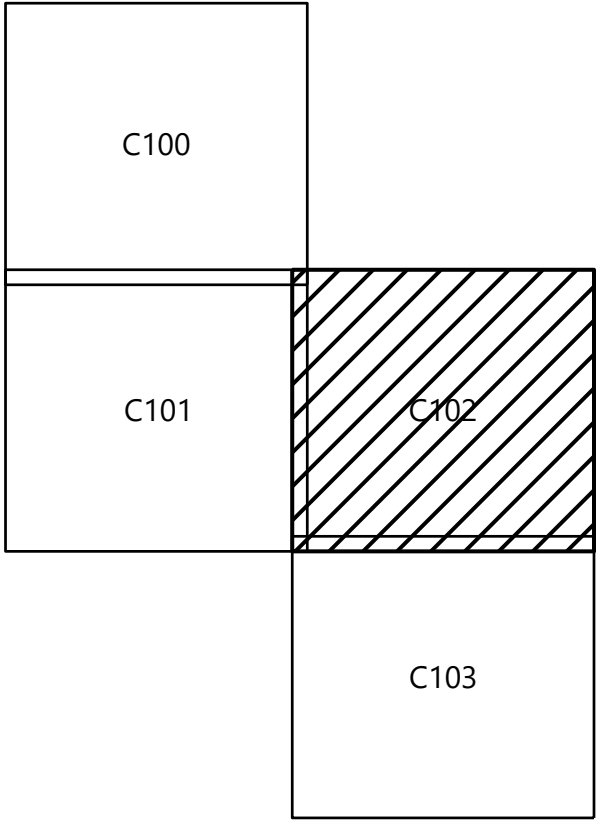
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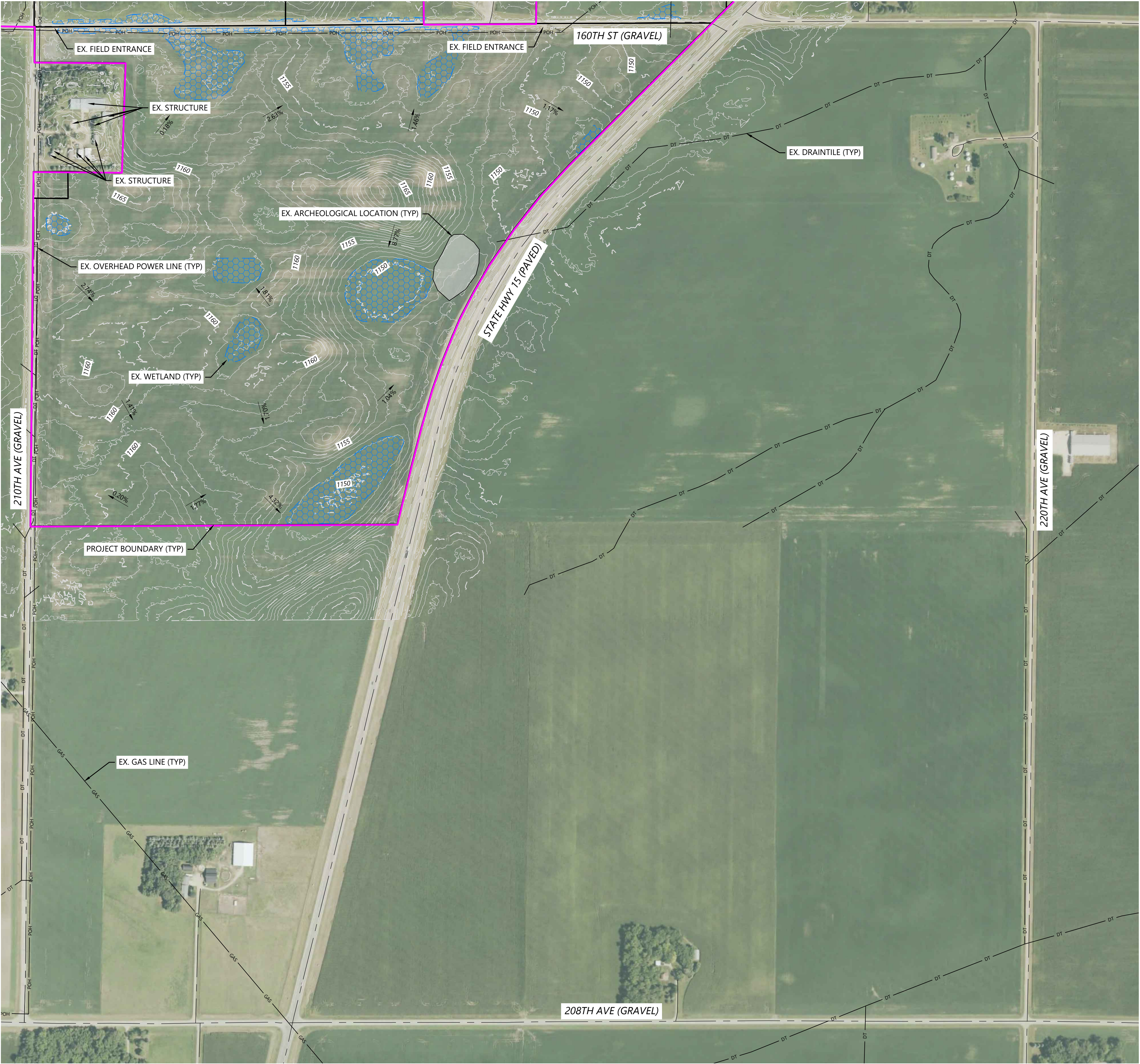
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KEY MAP:



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- LEGEND:
- PROJECT BOUNDARY
 - EX. ROAD CENTERLINES
 - EX. PARCEL LINE
 - EX. INDEX CONTOUR
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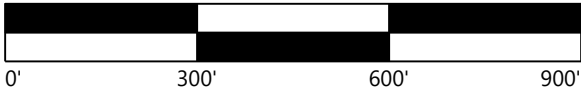
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Lake Charlotte Solar Project

Martin County, Minnesota

Existing Conditions - 4

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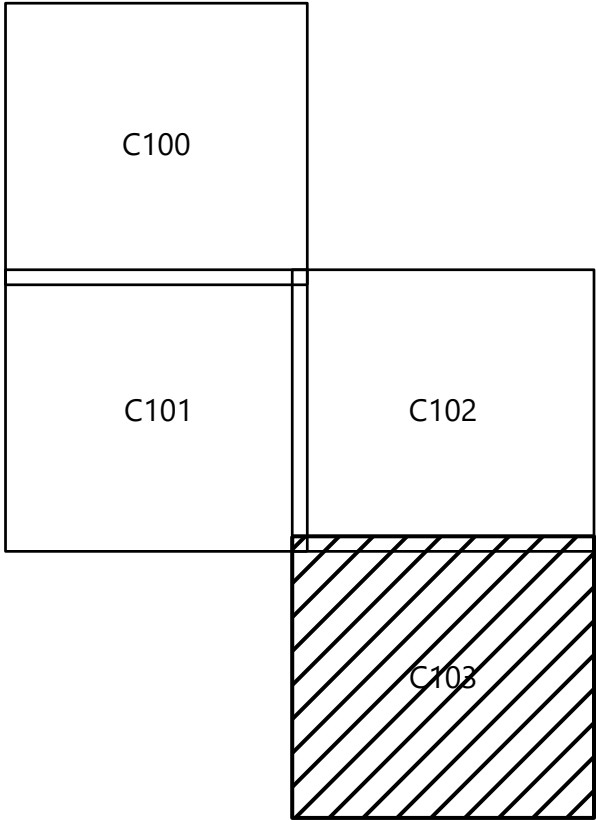
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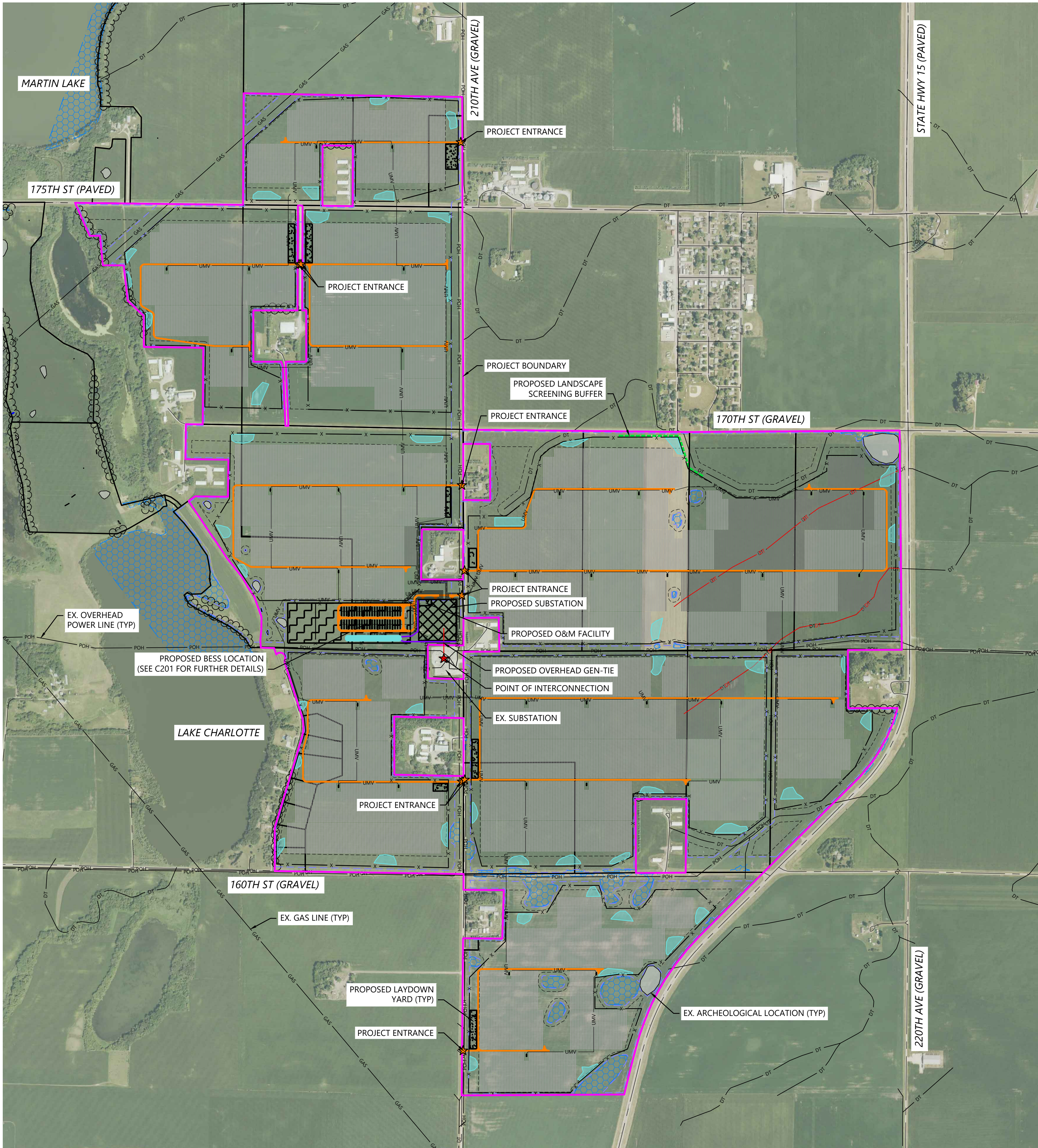
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KEY MAP:



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LEGEND:

- PROJECT BOUNDARY
- EX. ROAD CENTERLINES
- EX. PARCEL LINE
- 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 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.
1.1. LAYOUT IS INTENDING TO SHOW MAX BUILD OUT AND MAY BE IMPACTED WITH ADDITIONAL CONSTRAINTS AND 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

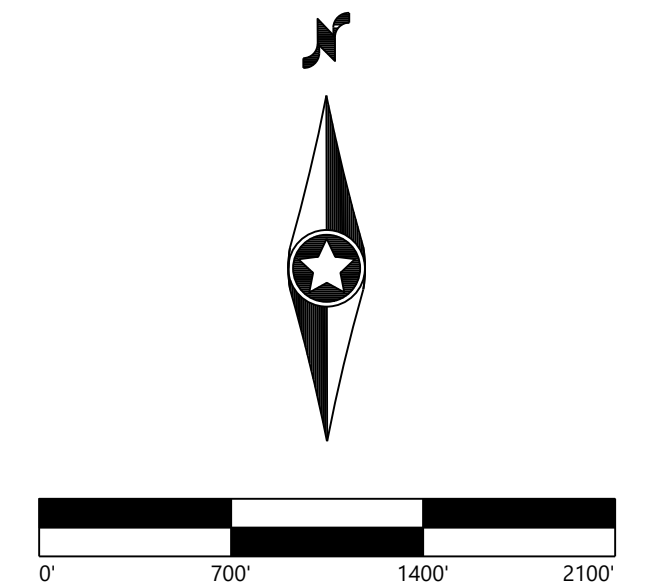
Inverter Distance Table	
Distance from Nearest Home (FT)	Distance from Property Line
352	69

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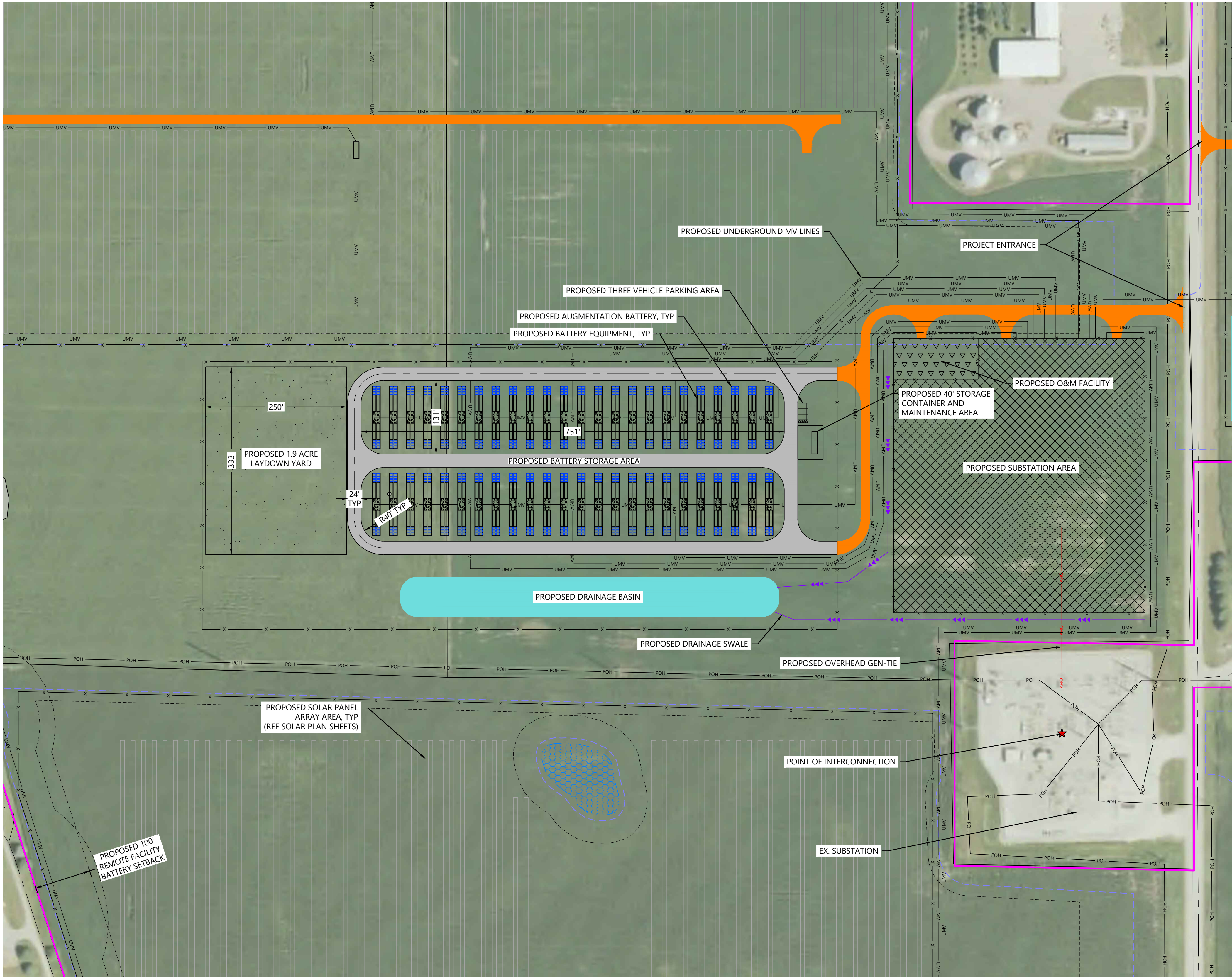
Lake Charlotte Solar Project

Martin County, Minnesota

Overall Site Plan

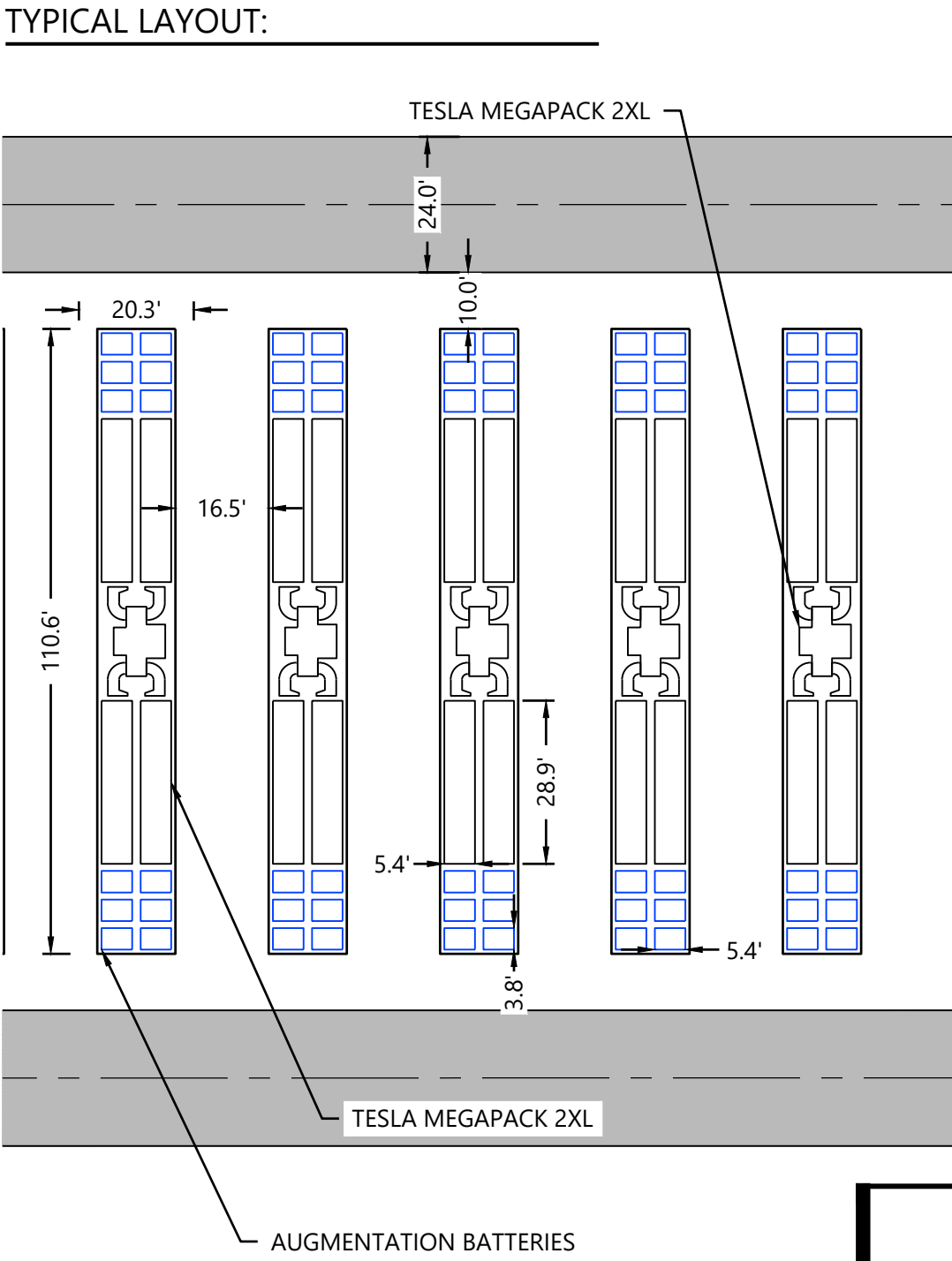
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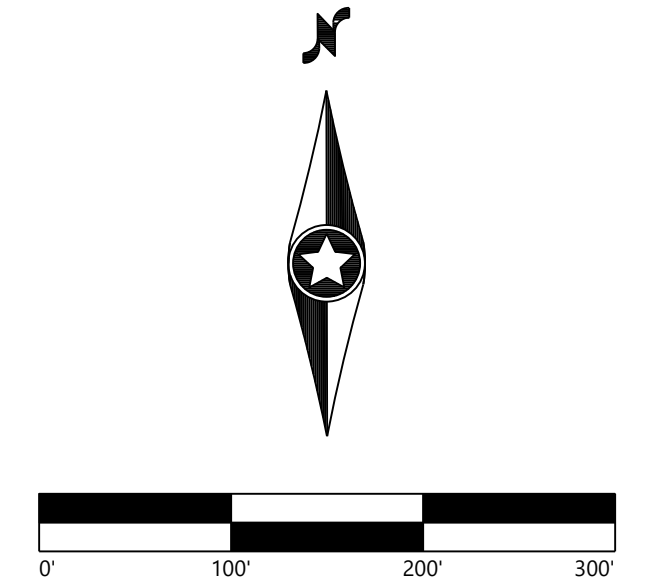


- LEGEND:
- PROJECT BOUNDARY
 - EX. ROAD CENTERLINES
 - EX. PARCEL LINE
 - EX. OVERHEAD POWER
 - EX. WETLAND
 - PROPOSED SOLAR ARRAY
 - PROPOSED ALTERNATE SOLAR ARRAY
 - PROPOSED DRAINAGE SWALE
 - PROPOSED UNDERGROUND COLLECTION
 - PROPOSED OVERHEAD GEN-TIE
 - POINT OF INTERCONNECTION
 - PROPOSED 100' 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

- NOTES:
- EQUIPMENT SHOWN WITHIN THIS PLAN IS FOR REFERENCE ONLY AND MAY CHANGE WITH FURTHER DESIGN.
1.1. LAYOUT IS INTENDING TO SHOW MAX BUILD OUT AND MAY BE IMPACTED WITH ADDITIONAL CONSTRAINTS AND DESIGN.
 - BASIN AREAS SHOWN REPRESENT INTENDED PRELIMINARY BASIN LOCATIONS. SIZE IS NOT REPRESENTATIVE IF THE ACTUAL BASIN SIZE. BASIN SIZING TO BE DETERMINED WITH FURTHER ENGINEERING DESIGN.
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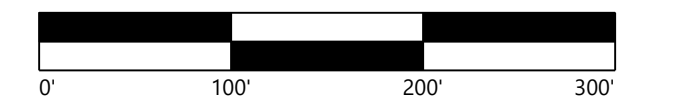
Martin County, Minnesota

BESS Proposed Layout

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DATE: 03/28/2025
SHEET: C201
REV: C

REVISIONS:						
REV	DATE	COMMENT	BY	CHK	APR	
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SHEET: C300 C



	PROJECT BOUNDARY
	EX. ROAD CENTERLINES
	EX. PARCEL LINE
	EX. INDEX CONTOUR
	EX. INTERVAL CONTOUR
	EX. TREELINE
	EX. OVERHEAD POWER
	EX. GAS PIPELINE
	EX. DRAIN TILE
	EX. DRAIN TILE 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 SECURITY SWALE
	PROPOSED ACCESS ROAD
	PROPOSED SECURITY FENCE
	PROPOSED SECURITY FENCE GATE
	PROPOSED LAY/DOWN 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

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3. DRAINAGE CROSSING AND CULVERT SIZING TO BE DETERMINED WITH FURTHER ENGINEERING DESIGN.
4. SEE SHEETS C700 - C702 FOR SITE DETAILS, FENCING DETAILS, AND ROAD SECTION DETAILS.
5. EXISTING FEATURES SHOWN ARE A COMBINATION OF CLIENT PROVIDED DATA AND PUBLICLY AVAILABLE DATA. DESIGN SUBJECT TO CHANGE.
6. FURTHER DESIGN REQUIRED TO SHOW PROPOSED GRADING DISTURBANCE AREAS AND ADDITIONAL EROSION CONTROL BMPs.

C302	C300	C301			
	C303	C304			
	C305	C306	C307	C308	C309
	C310	C311	C312	C313	C314
	C315	C316	C317	C318	C319
			C320	C321	
			C322		

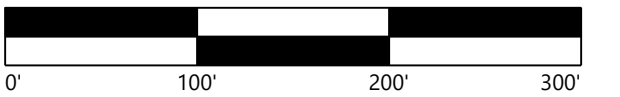
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Lake Charlotte Solar Project

Martin County, Minnesota

Civil Site Plan - 2

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DATE: 03/28/2025

SHEET: C301

REV:

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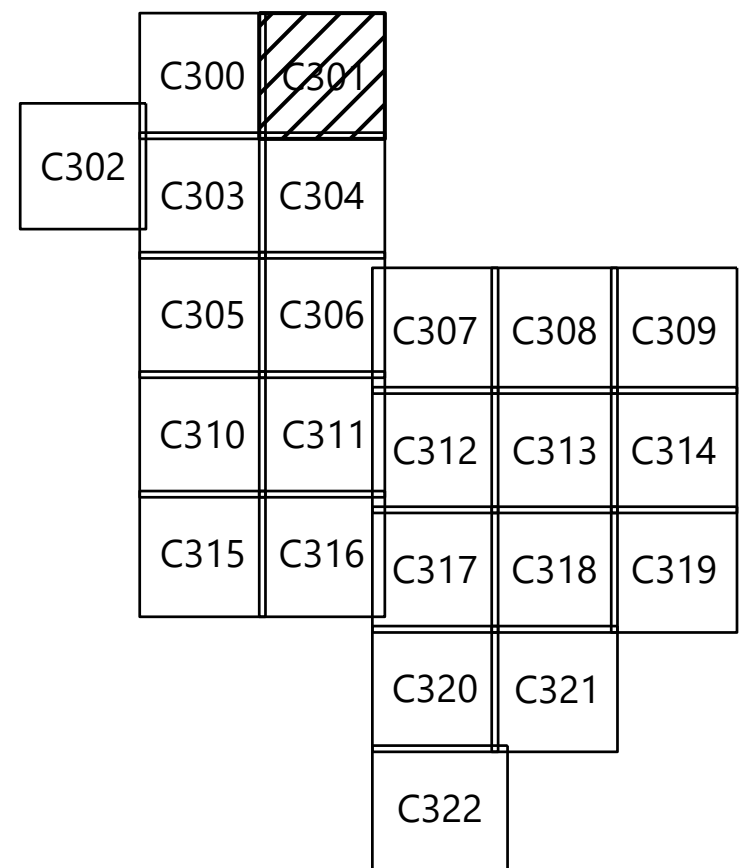
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	EX. ROAD CENTERLINES
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	PROPOSED ACCESS ROAD
	PROPOSED SECURITY FENCE
	PROPOSED SECURITY FENCE GATE
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	PROPOSED SUBSTATION
	PROPOSED BESS
	PROPOSED O&M FACILITY
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	PROPOSED PERIMETER SEDIMENT CONTROL
	PROPOSED CULVERT
	PROPOSED DRAINAGE CROSSING
	PROPOSED CONCRETE WASHOUT
	PROPOSED LANDSCAPE SCREENING BUFFER

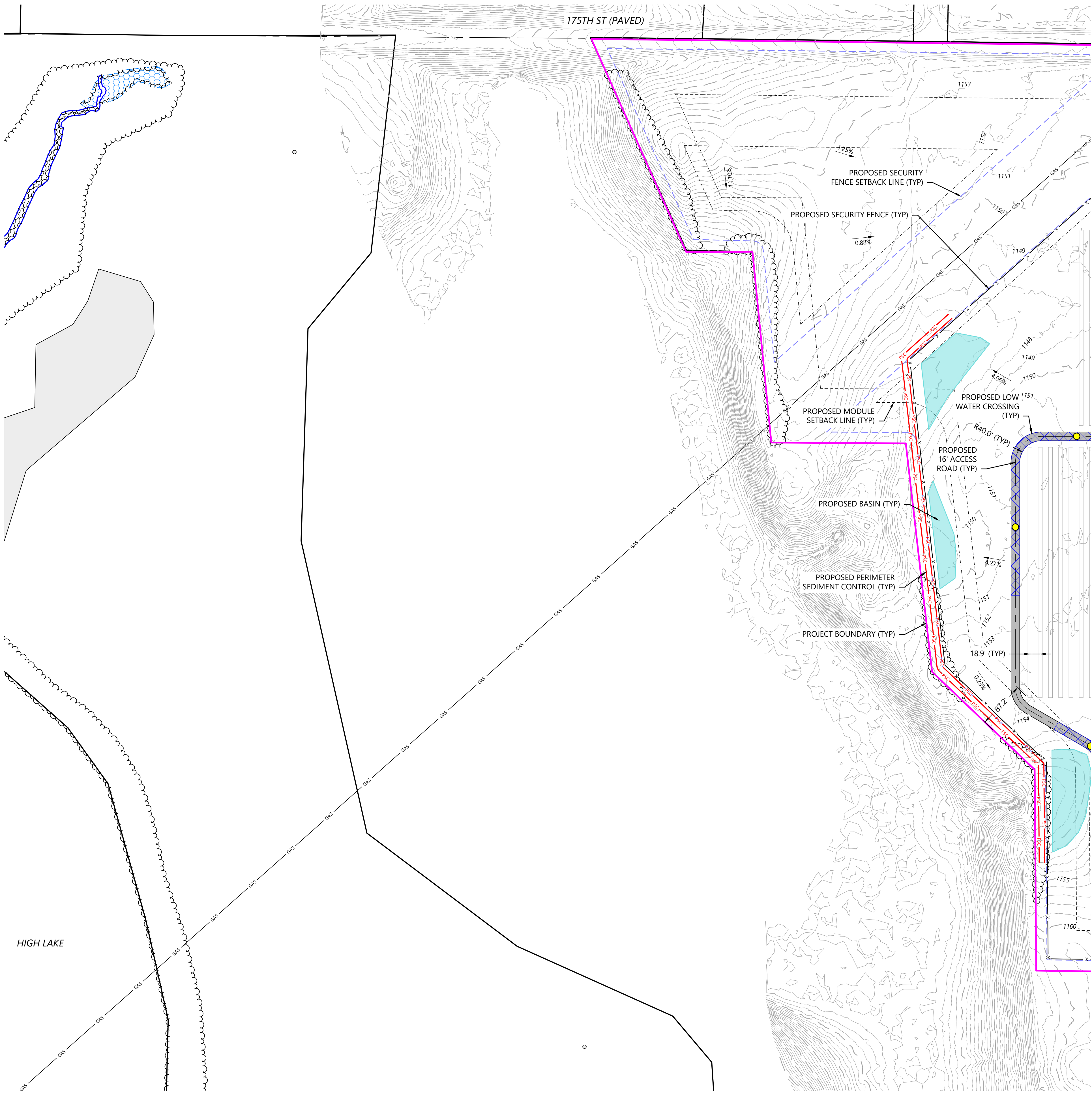
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KEY MAP:



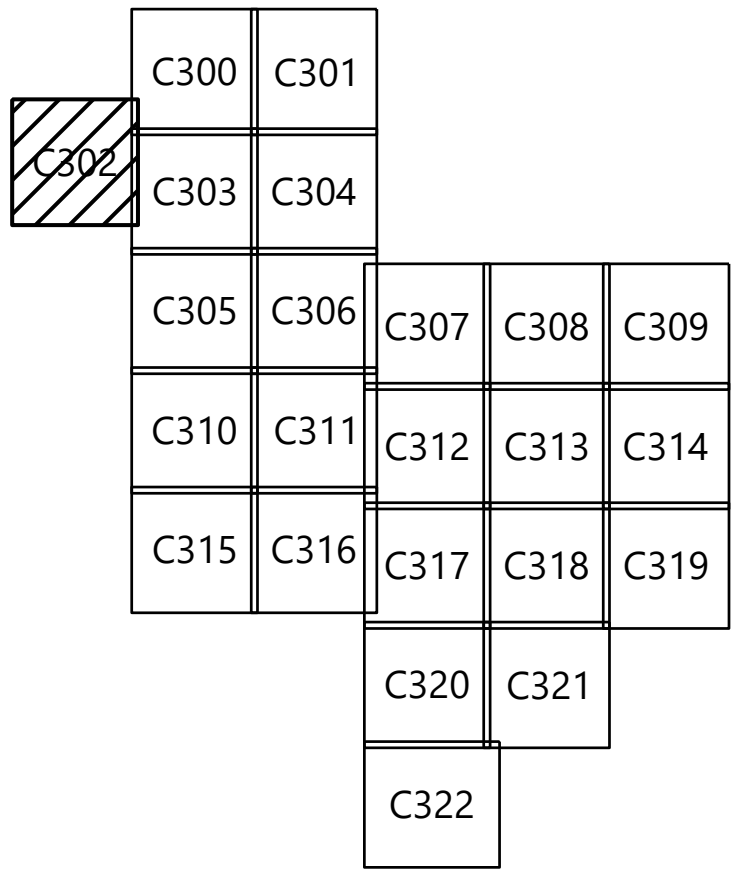
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- LEGEND:**
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 - EX. ARCHEOLOGICAL LOCATION
 - PROPOSED SOLAR ARRAY
 - PROPOSED ALTERNATE SOLAR ARRAY
 - PROPOSED ELECTRICAL EQUIPMENT
 - PROPOSED UNDERGROUND COLLECTION
 - PROPOSED OVERHEAD GEN-TIE
 - 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

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KEY MAP:



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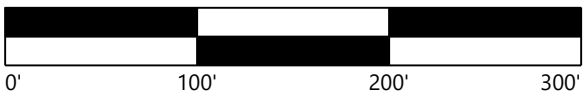
PREPARED FOR:



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 - 3

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DATE: 03/28/2025

SHEET: C302

REV: C

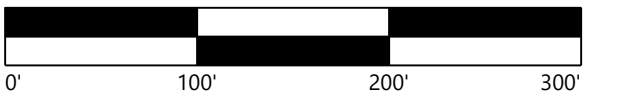
PREPARED FOR:



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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 - 4

ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 03/28/2025

SHEET: C303

REV:

C

LEGEND:

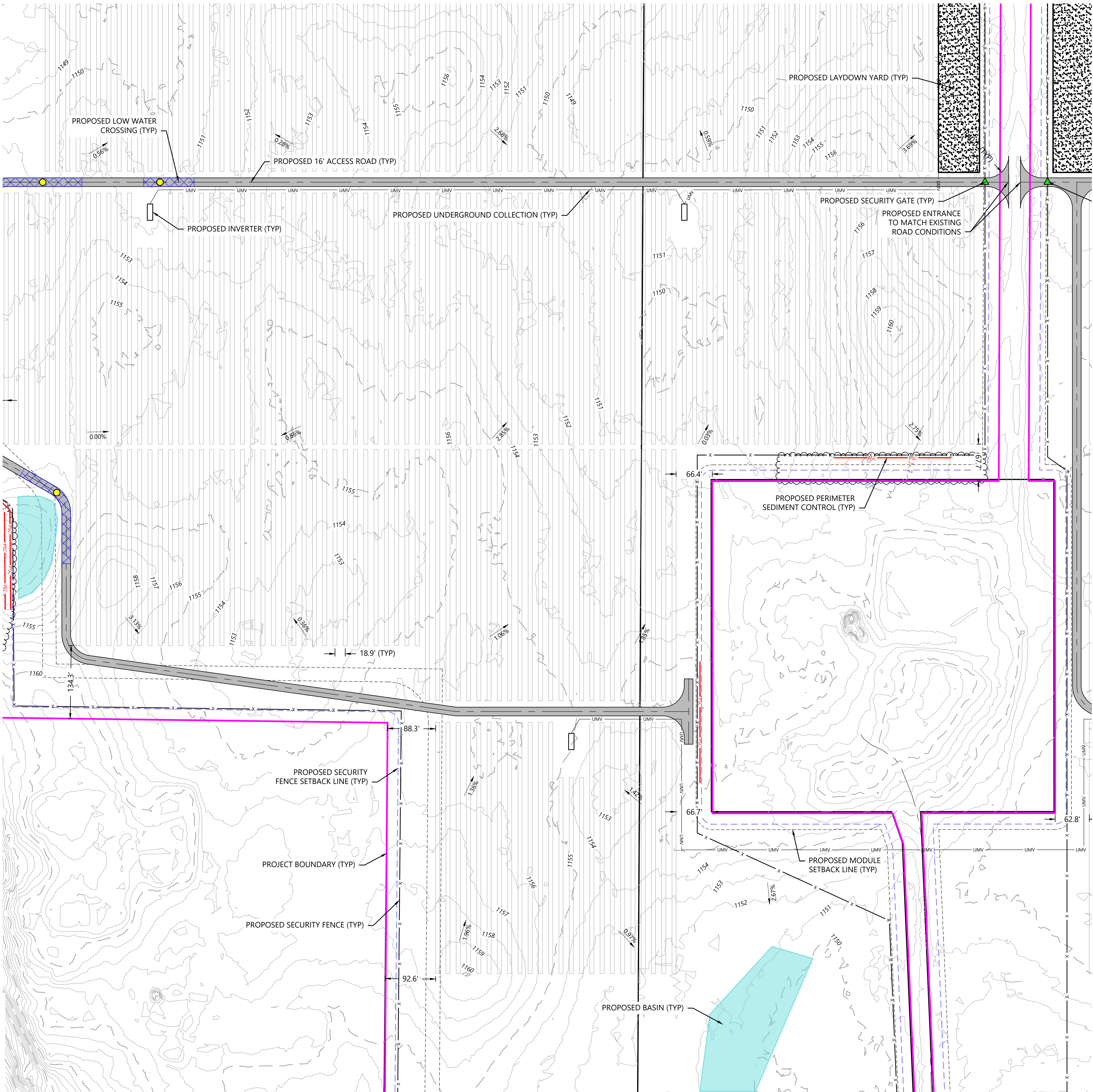
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	EX. ROAD CENTERLINES
	EX. PARCEL LINE
	EX. INDEX CONTOUR
	EX. INTERVAL CONTOUR
	EX. TREELINE
	EX. OVERHEAD POWER
	EX. GAS PIPELINE
	EX. DRAINTILE
	EX. DRAINTILE PROPOSED TO BE ABANDONED
	EX. STREAM CHANNEL
	EX. WETLAND
	EX. ARCHEOLOGICAL LOCATION
	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

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KEY MAP:

	C300	C301			
C302	C303	C304			
	C305	C306	C307	C308	C309
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	C315	C316	C317	C318	C319
			C320	C321	
			C322		

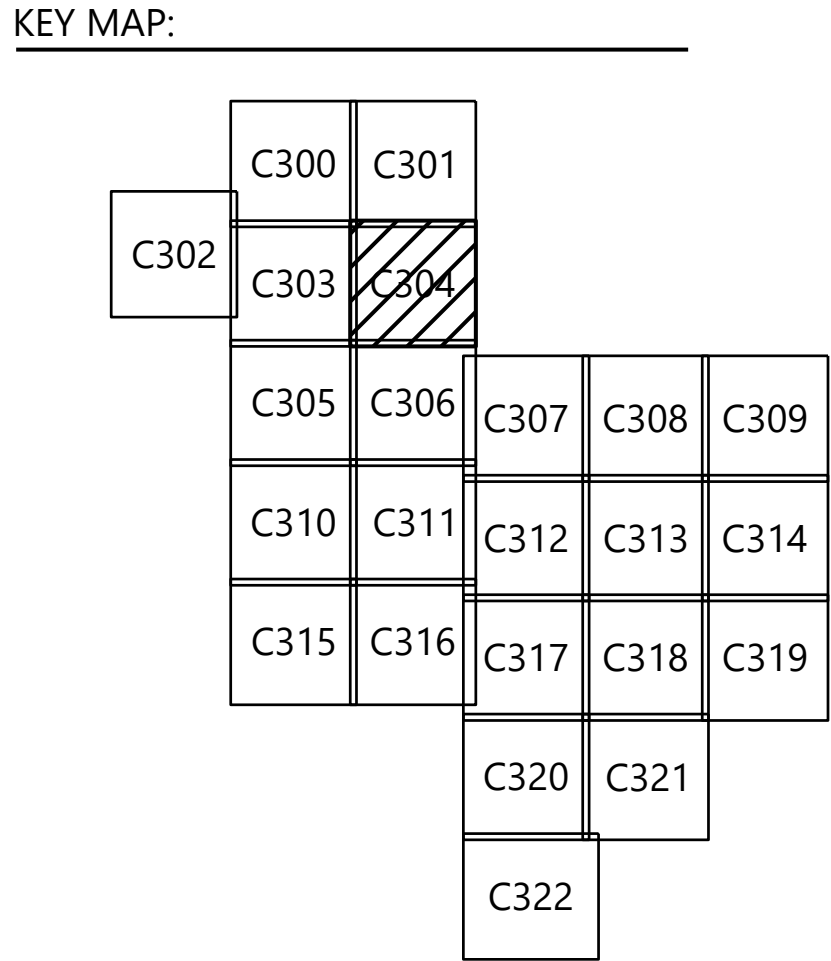


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- LEGEND:
- PROJECT BOUNDARY
 - EX. ROAD CENTERLINES
 - EX. PARCEL LINE
 - EX. INDEX CONTOUR
 - EX. INTERVAL CONTOUR
 - EX. TREELINE
 - EX. OVERHEAD POWER
 - EX. GAS PIPELINE
 - EX. DRAINTILE
 - EX. DRAINTILE PROPOSED TO BE ABANDONED
 - EX. STREAM CHANNEL
 - EX. WETLAND
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 - PROPOSED SOLAR ARRAY
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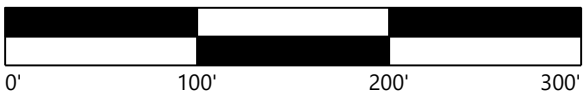
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A	03/03/2025	Permit Plans	AW	BV	BV
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C	03/28/2025	Permit Plans with BESS	AW	BV	BV



Lake Charlotte Solar Project

Martin County, Minnesota

Civil Site Plan - 5

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DATE: 03/28/2025

SHEET: C304

REV:

C

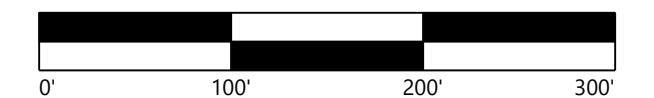
PREPARED FOR:



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Bloomington, MN 55347

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
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

Civil Site Plan - 6

ISSUED FOR PERMIT
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DATE: 03/28/2025

SHEET: C305

REV:

C

LEGEND:

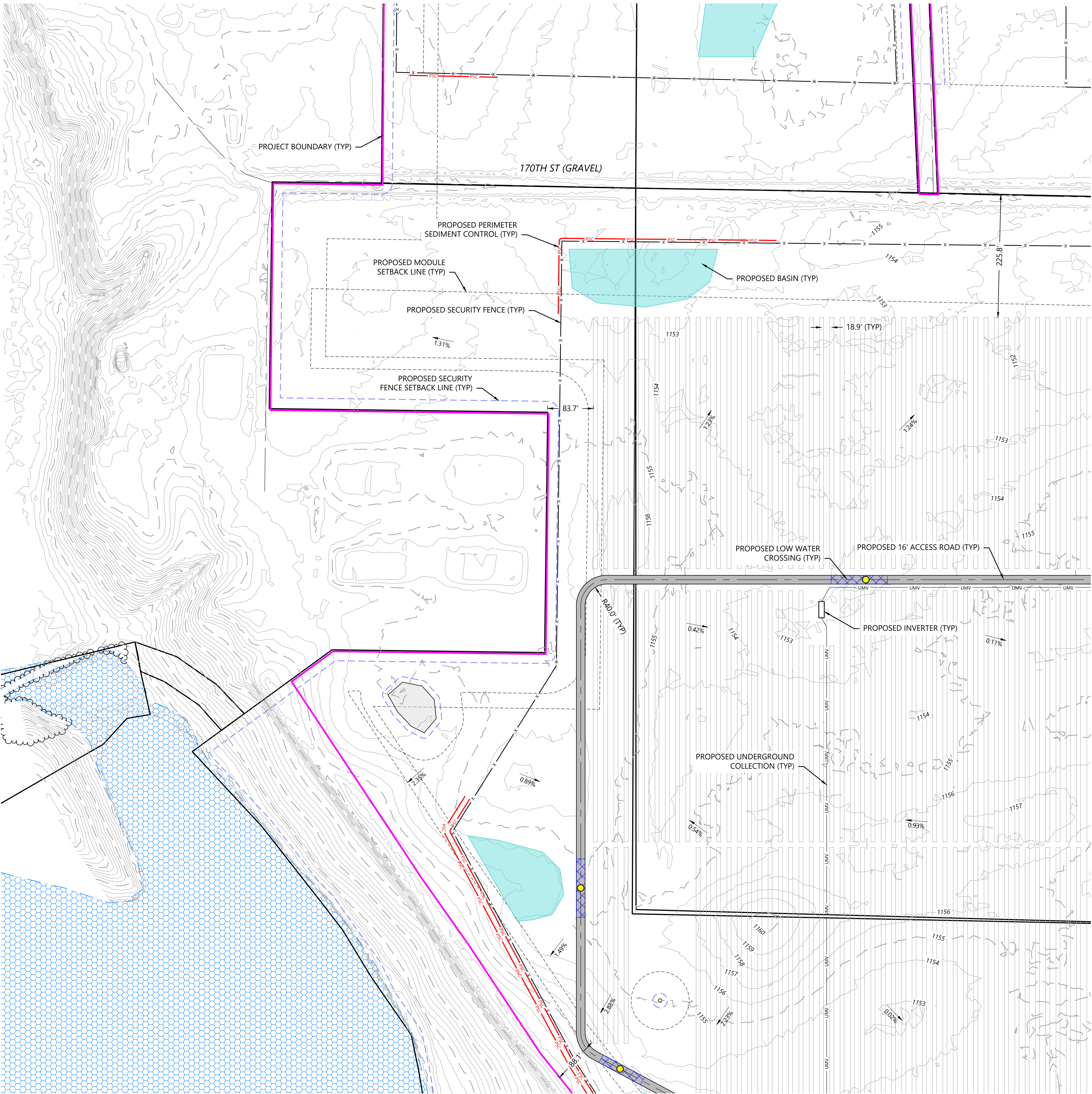
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	EX. PARCEL LINE
	EX. INDEX CONTOUR
	EX. INTERVAL CONTOUR
	EX. TREELINE
	EX. OVERHEAD POWER
	EX. GAS PIPELINE
	EX. DRAINTILE
	EX. DRAINTILE PROPOSED TO BE ABANDONED
	EX. STREAM CHANNEL
	EX. WETLAND
	EX. ARCHEOLOGICAL LOCATION
	PROPOSED SOLAR ARRAY
	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
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	PROPOSED CONCRETE WASHOUT
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KEY MAP:

	C300	C301			
C302	C303	C304			
	C305	C306	C307	C308	C309
	C310	C311	C312	C313	C314
	C315	C316	C317	C318	C319
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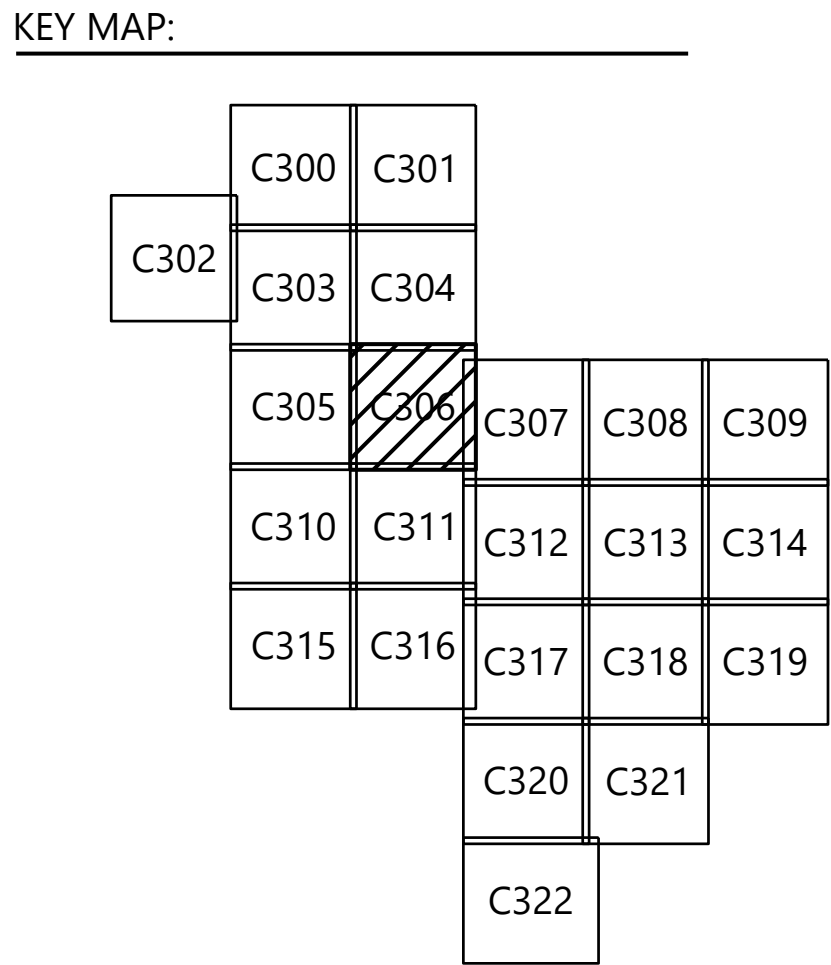


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- LEGEND:
- PROJECT BOUNDARY
 - EX. ROAD CENTERLINES
 - EX. PARCEL LINE
 - EX. INDEX CONTOUR
 - EX. INTERVAL CONTOUR
 - EX. TREELINE
 - EX. OVERHEAD POWER
 - EX. GAS PIPELINE
 - EX. DRAINTILE
 - EX. DRAINTILE PROPOSED TO BE ABANDONED
 - EX. STREAM CHANNEL
 - EX. WETLAND
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Westwood

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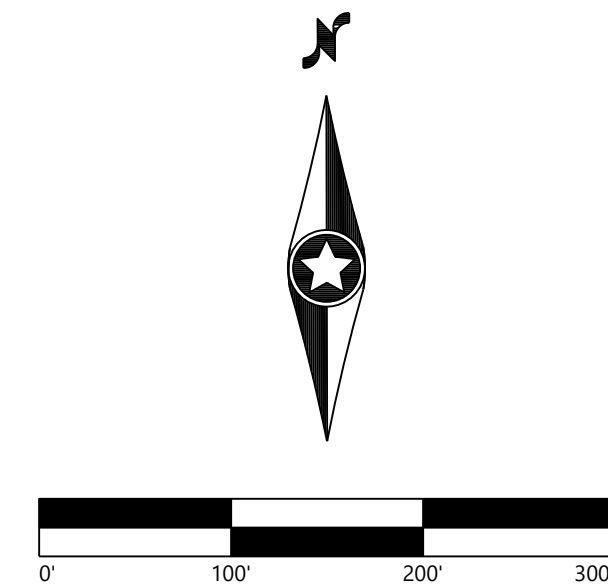
Westwood Professional Services, Inc.

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



Lake Charlotte Solar Project

Martin County, Minnesota

Civil Site Plan - 7

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DATE: 03/28/2025

SHEET: C306

REV: C

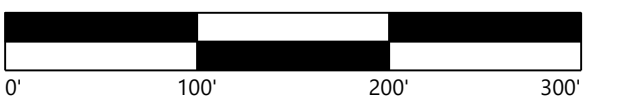
PREPARED FOR:



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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 - 8

ISSUED FOR PERMIT
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DATE: 03/28/2025

SHEET: C307

REV:

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LEGEND:

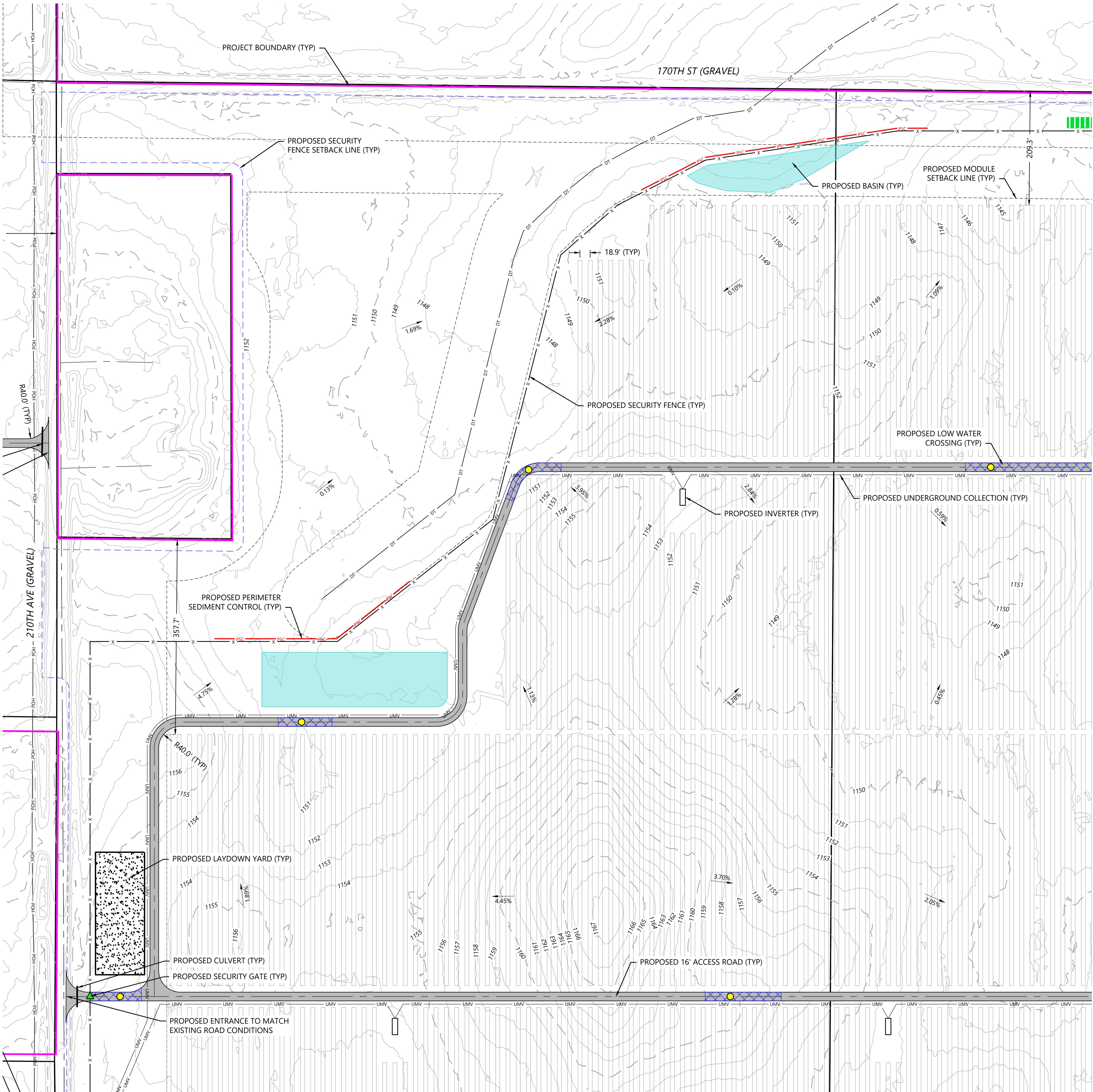
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	EX. INDEX CONTOUR
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	EX. TREELINE
	EX. OVERHEAD POWER
	EX. GAS PIPELINE
	EX. DRAINTILE
	EX. DRAINTILE PROPOSED TO BE ABANDONED
	EX. STREAM CHANNEL
	EX. WETLAND
	EX. ARCHEOLOGICAL LOCATION
	PROPOSED 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:

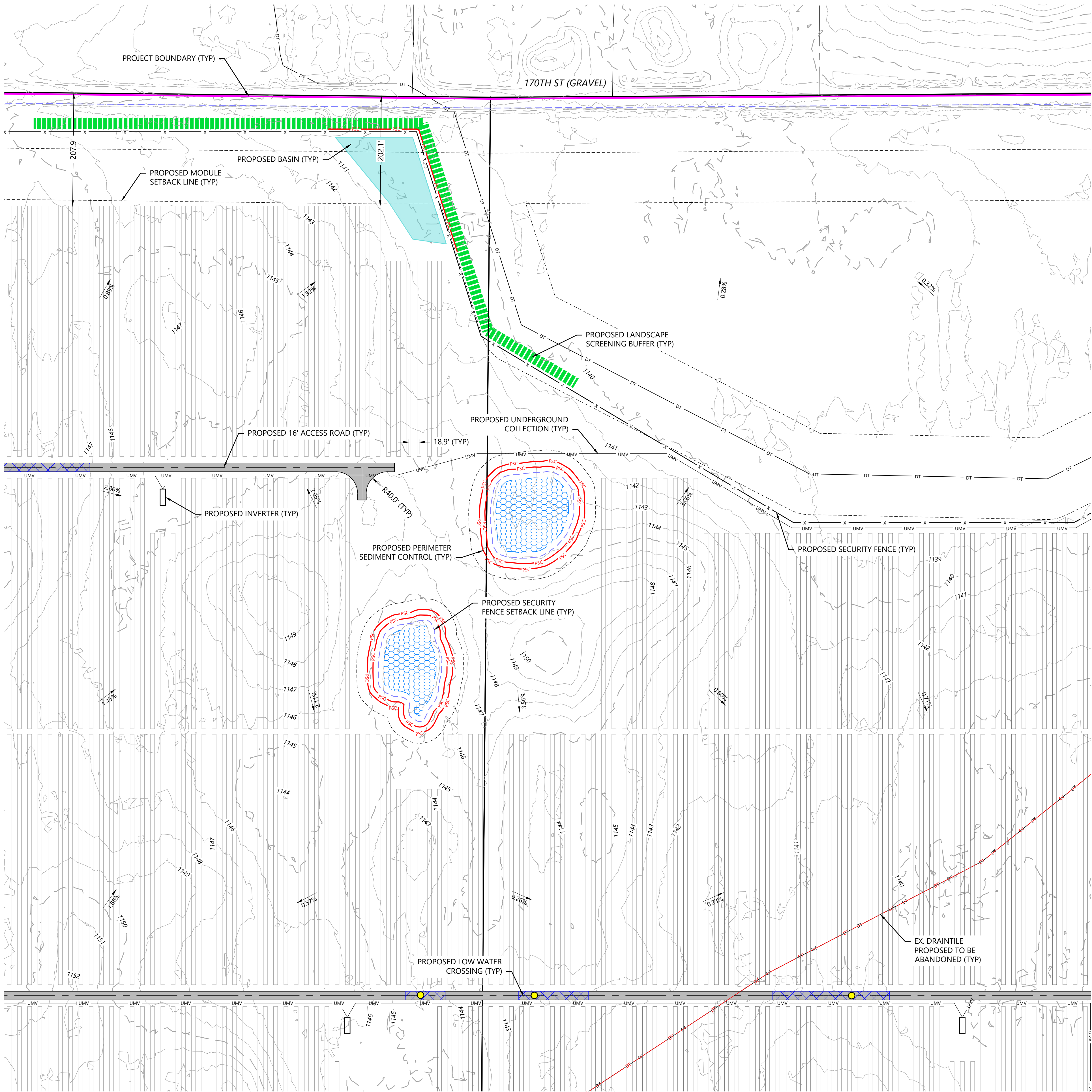
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KEY MAP:

	C300	C301			
C302	C303	C304			
	C305	C306	C307	C308	C309
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			C322		



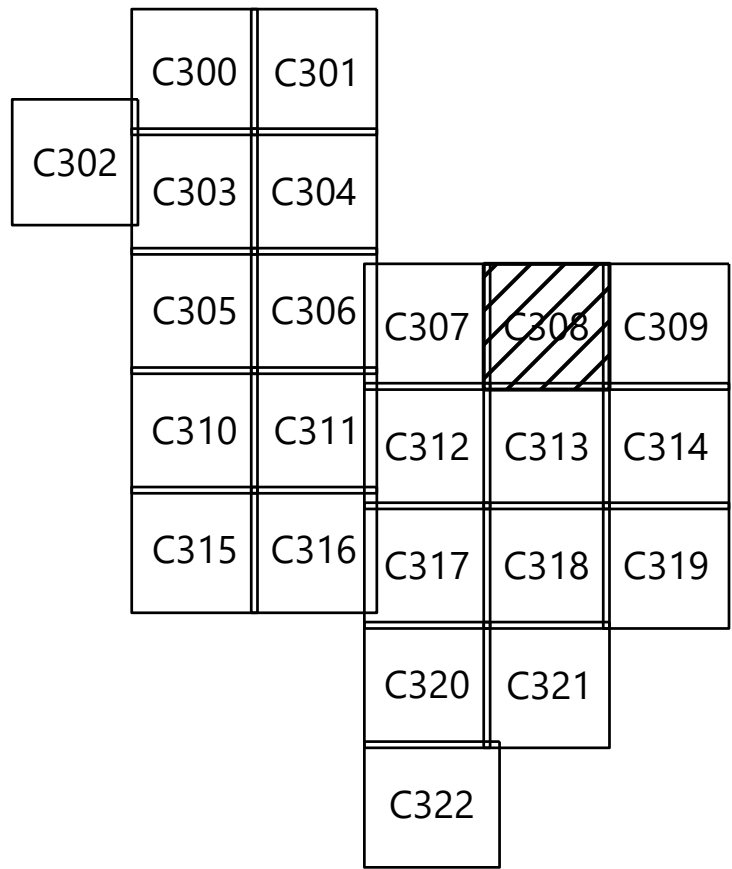
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- LEGEND:**
- PROJECT BOUNDARY
 - EX. ROAD CENTERLINES
 - EX. PARCEL LINE
 - EX. INDEX CONTOUR
 - EX. INTERVAL CONTOUR
 - EX. TREELINE
 - EX. OVERHEAD POWER
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 - EX. STREAM CHANNEL
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KEY MAP:



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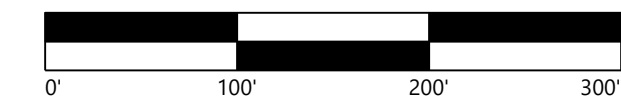
PREPARED FOR:



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REVISIONS:

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Lake Charlotte Solar Project

Martin County, Minnesota

Civil Site Plan - 9

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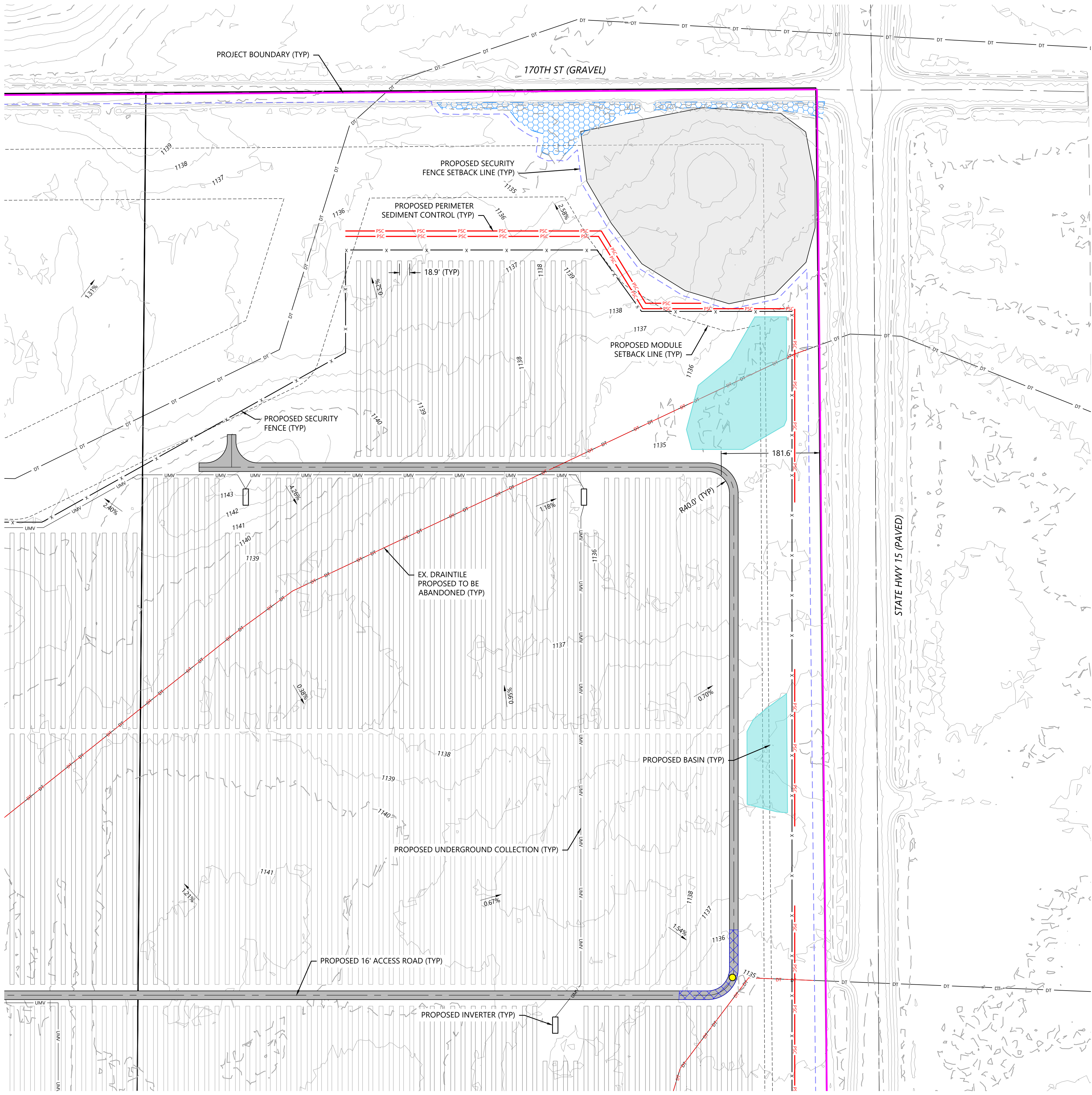
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SHEET: C308

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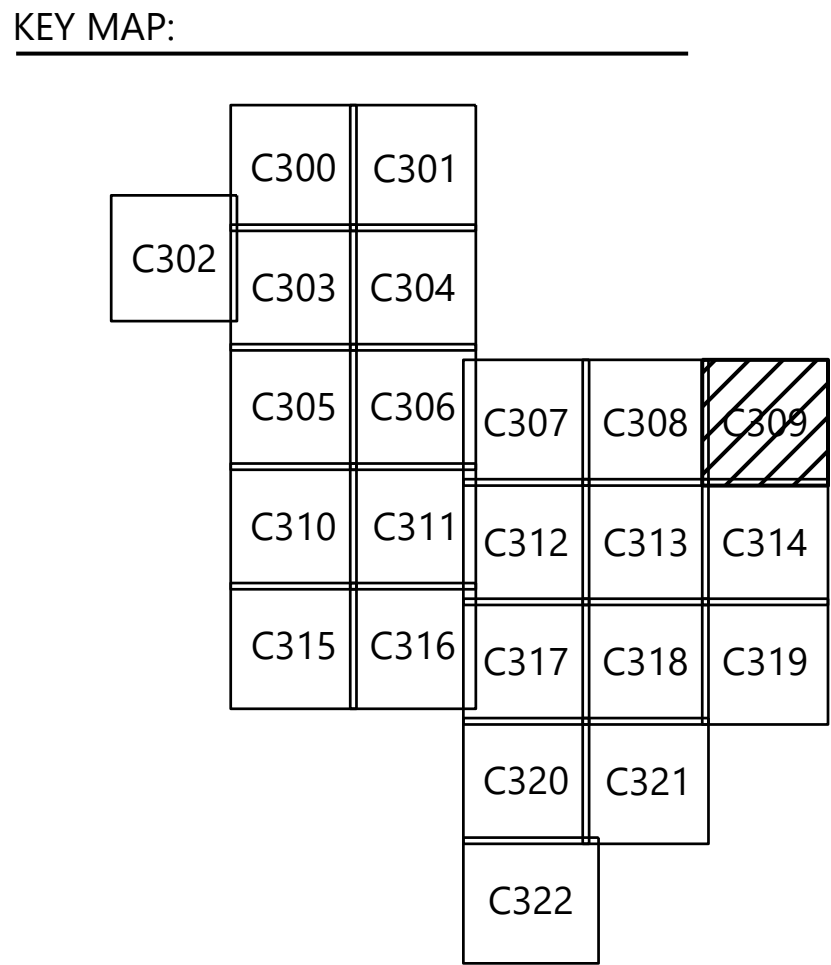
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- LEGEND:
- PROJECT BOUNDARY
 - EX. ROAD CENTERLINES
 - EX. PARCEL LINE
 - EX. INDEX CONTOUR
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 - EX. TREELINE
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 - PROPOSED PERIMETER SEDIMENT CONTROL
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 - PROPOSED DRAINAGE CROSSING
 - PROPOSED CONCRETE WASHOUT
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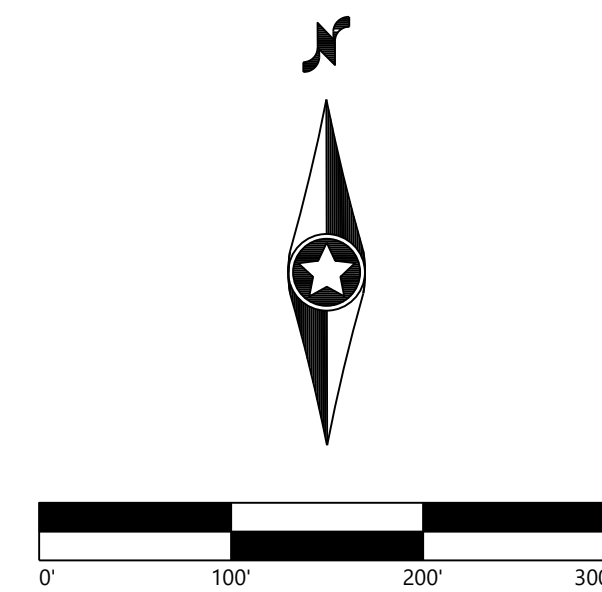
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Bloomington, MN 55347

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

Civil Site Plan - 10

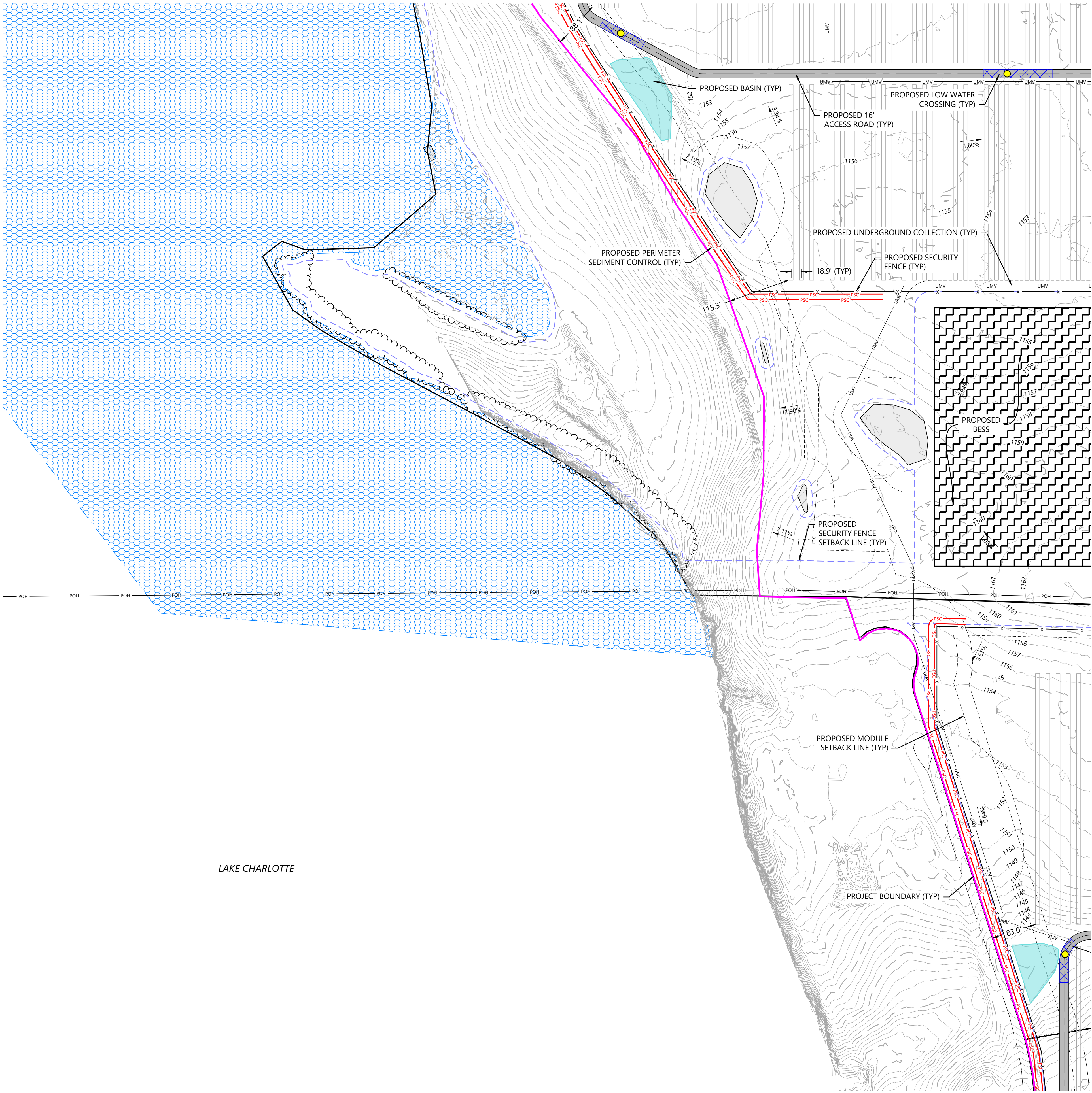
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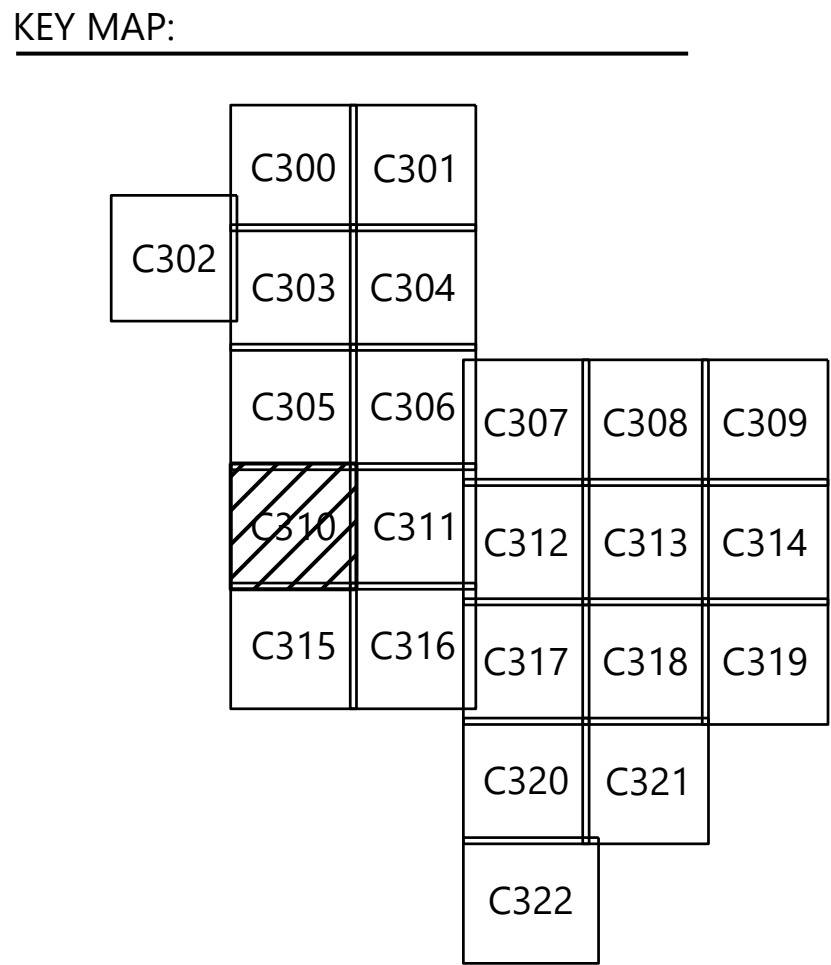
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LAKE CHARLOTTE

- LEGEND:
- PROJECT BOUNDARY
 - 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
 - EX. ARCHEOLOGICAL LOCATION
 - PROPOSED SOLAR ARRAY
 - PROPOSED ALTERNATE SOLAR ARRAY
 - PROPOSED ELECTRICAL EQUIPMENT
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 - PROPOSED ACCESS ROAD
 - PROPOSED SECURITY FENCE
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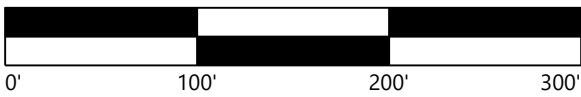


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Lake Charlotte Solar Project

Martin County, Minnesota

Civil Site Plan - 11

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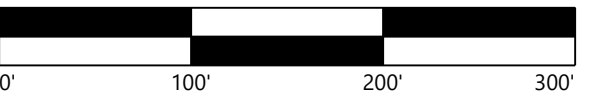
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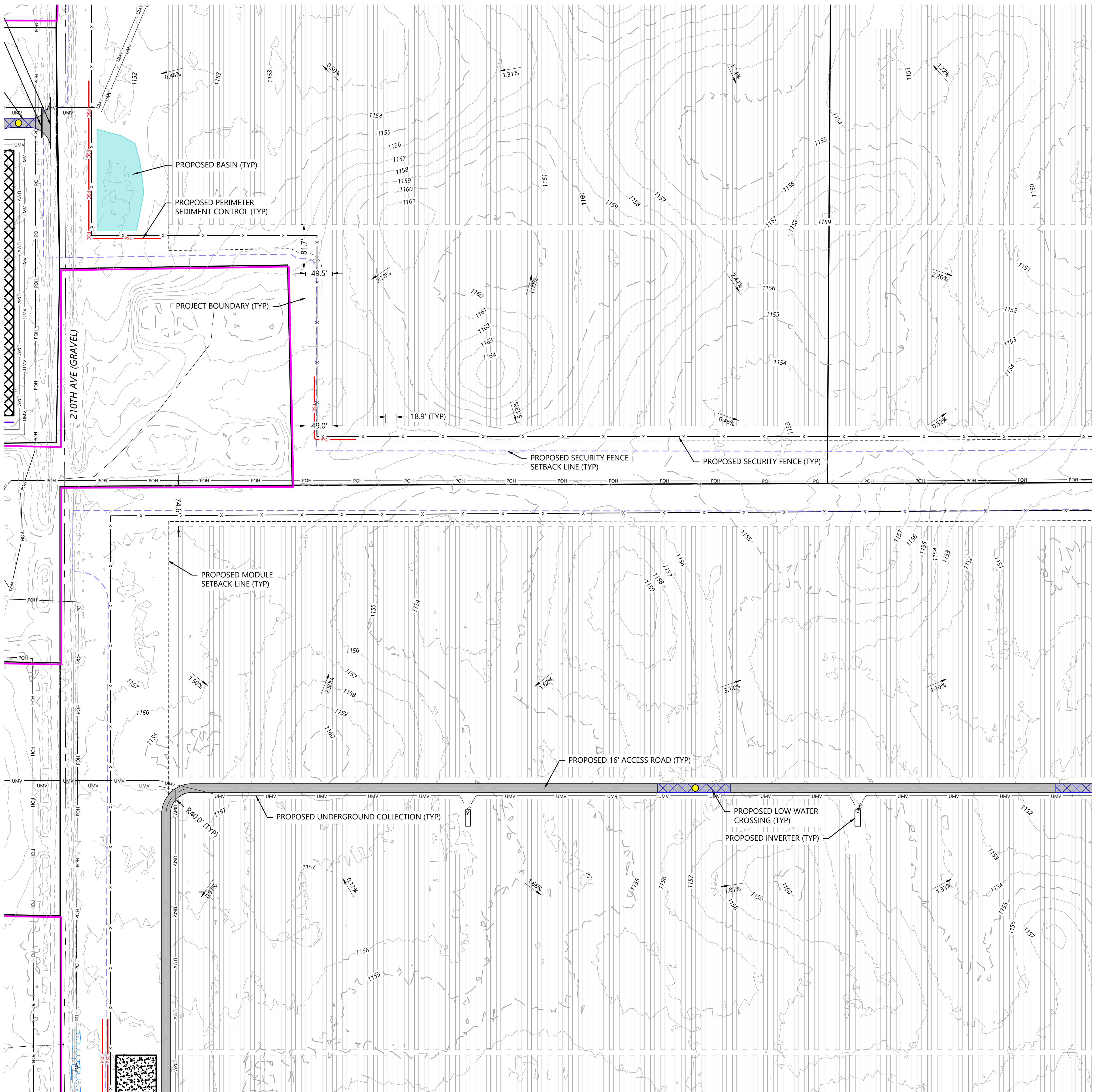
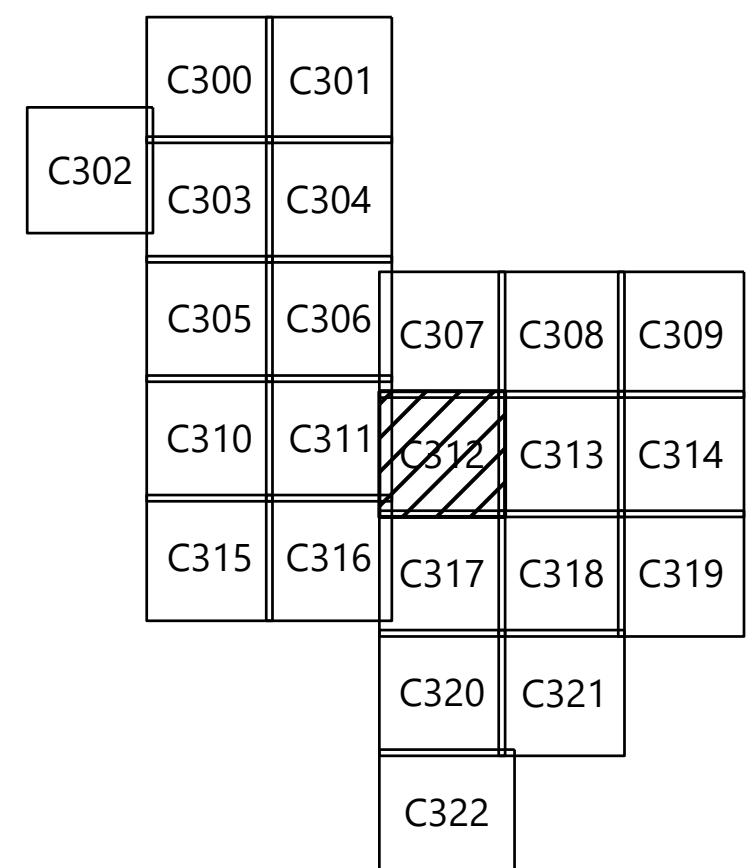
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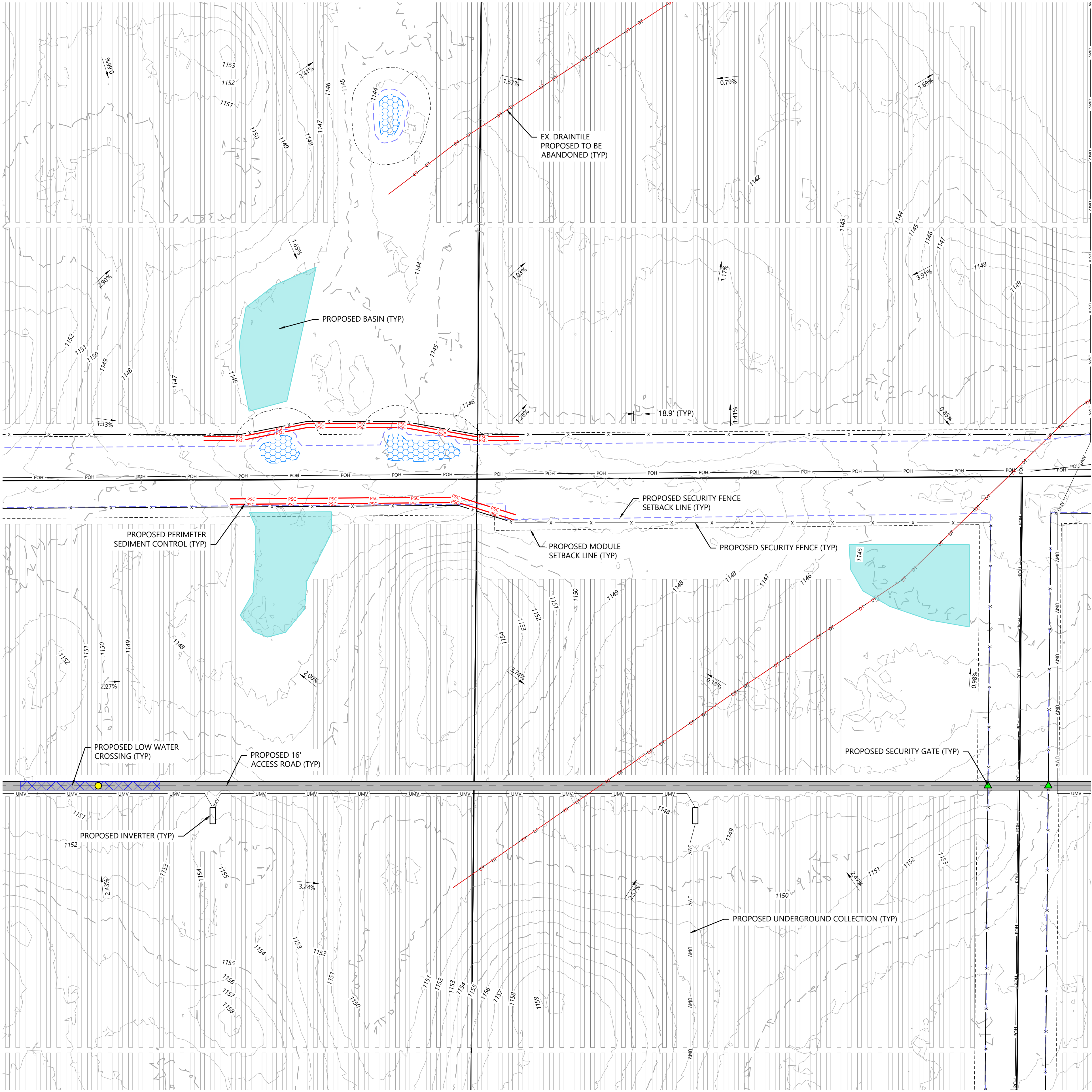


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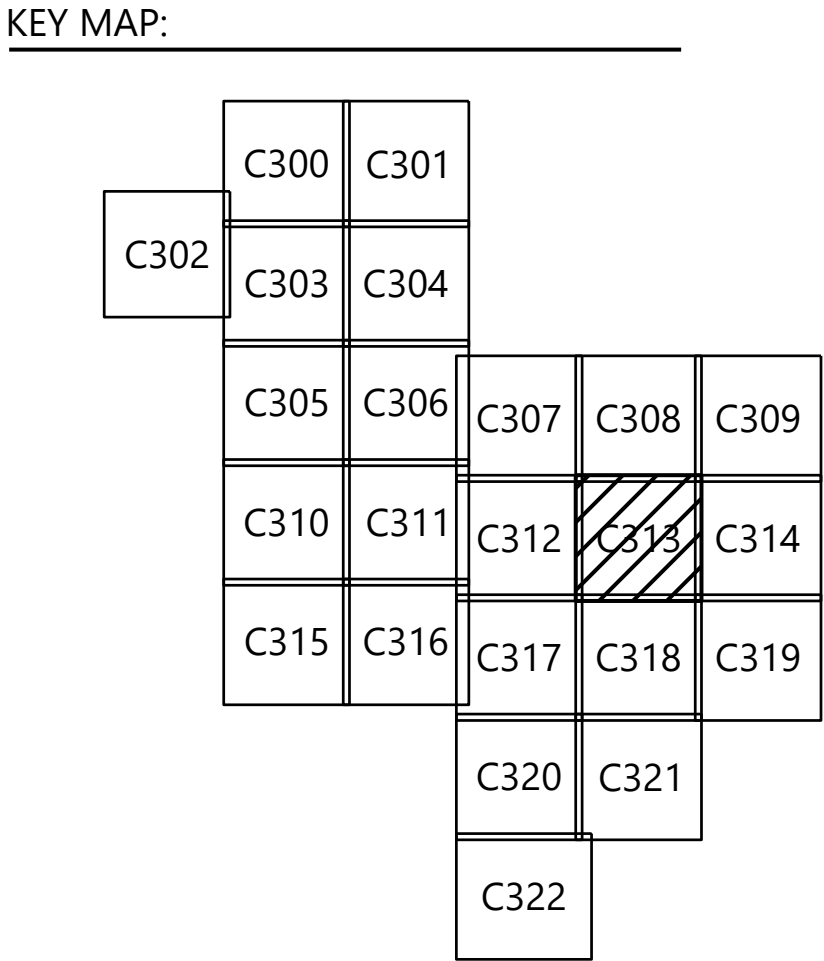


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- LEGEND:**
- PROJECT BOUNDARY
 - EX. ROAD CENTERLINES
 - EX. PARCEL LINE
 - EX. INDEX CONTOUR
 - EX. INTERVAL CONTOUR
 - EX. TREELINE
 - EX. OVERHEAD POWER
 - EX. GAS PIPELINE
 - EX. DRAINTILE
 - EX. DRAINTILE PROPOSED TO BE ABANDONED
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 - EX. WETLAND
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 - PROPOSED ALTERNATE SOLAR ARRAY
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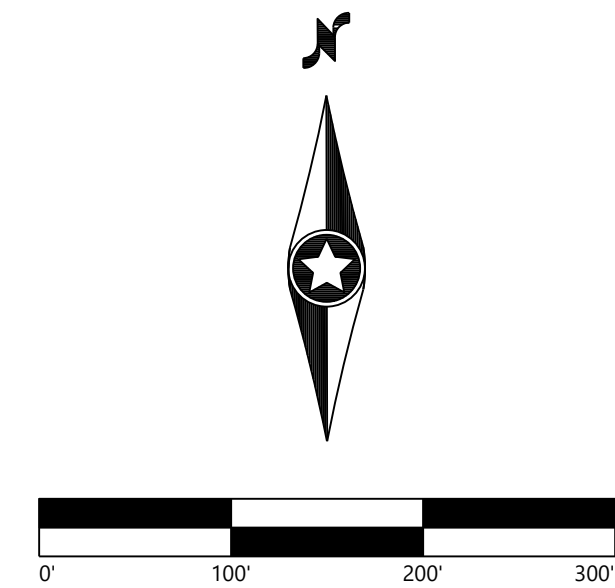
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Lake Charlotte Solar Project

Martin County, Minnesota

Civil Site Plan - 14

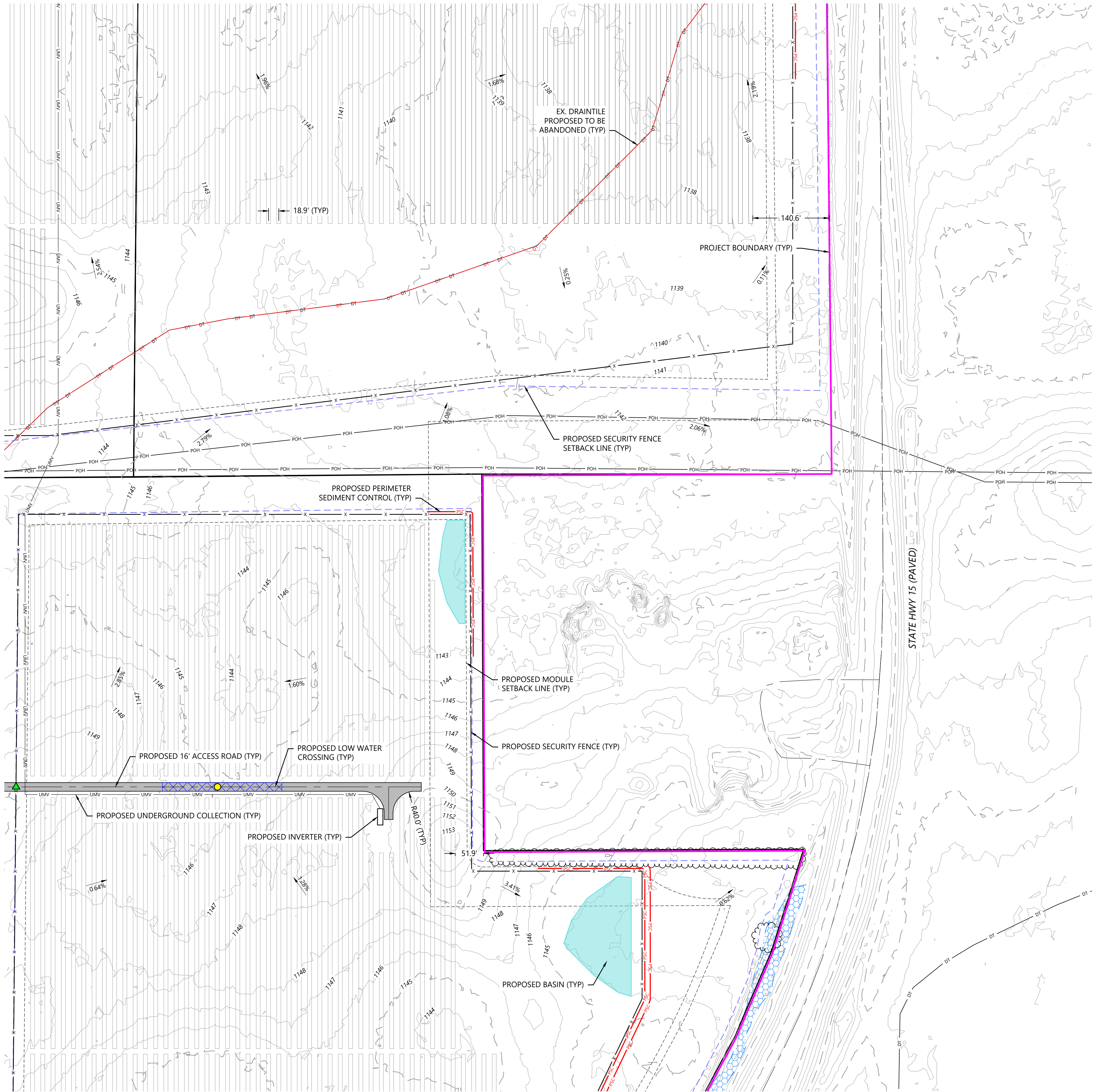
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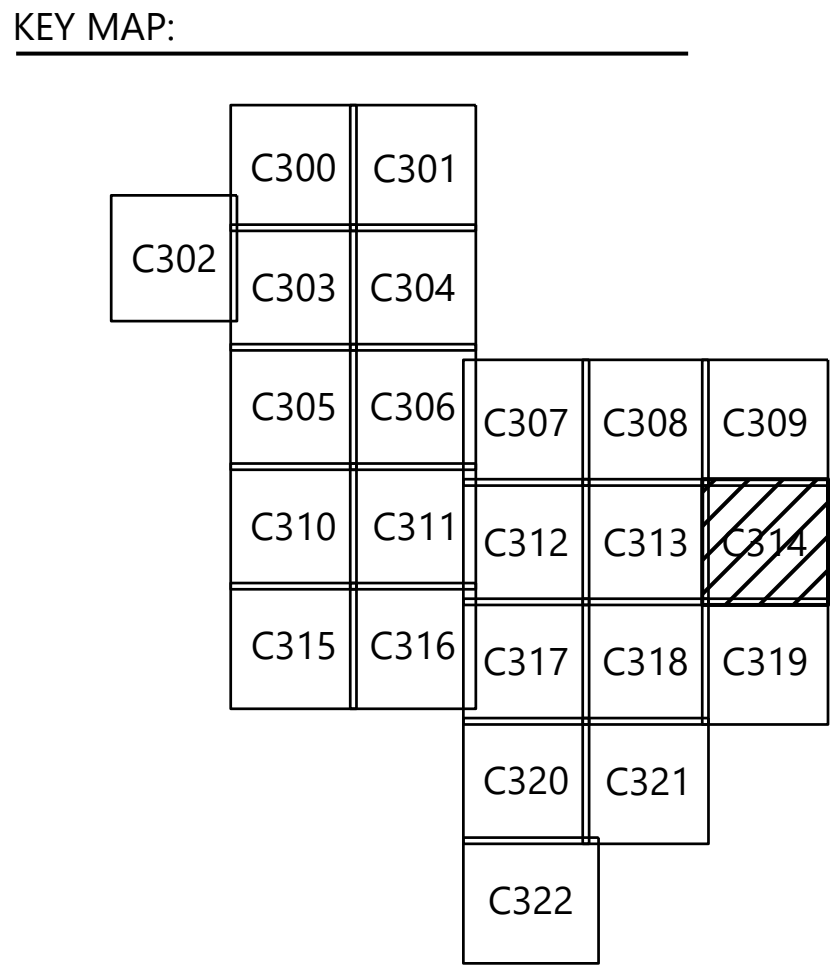
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LEGEND:

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- EX. ROAD CENTERLINES
- EX. PARCEL LINE
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C	03/28/2025	Permit Plans with BESS	AW	BV

Lake Charlotte Solar Project

Martin County, Minnesota

Civil Site Plan - 15

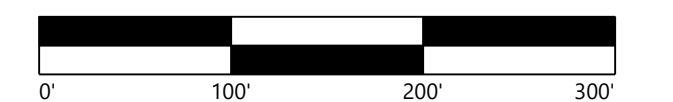
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SHEET: C314

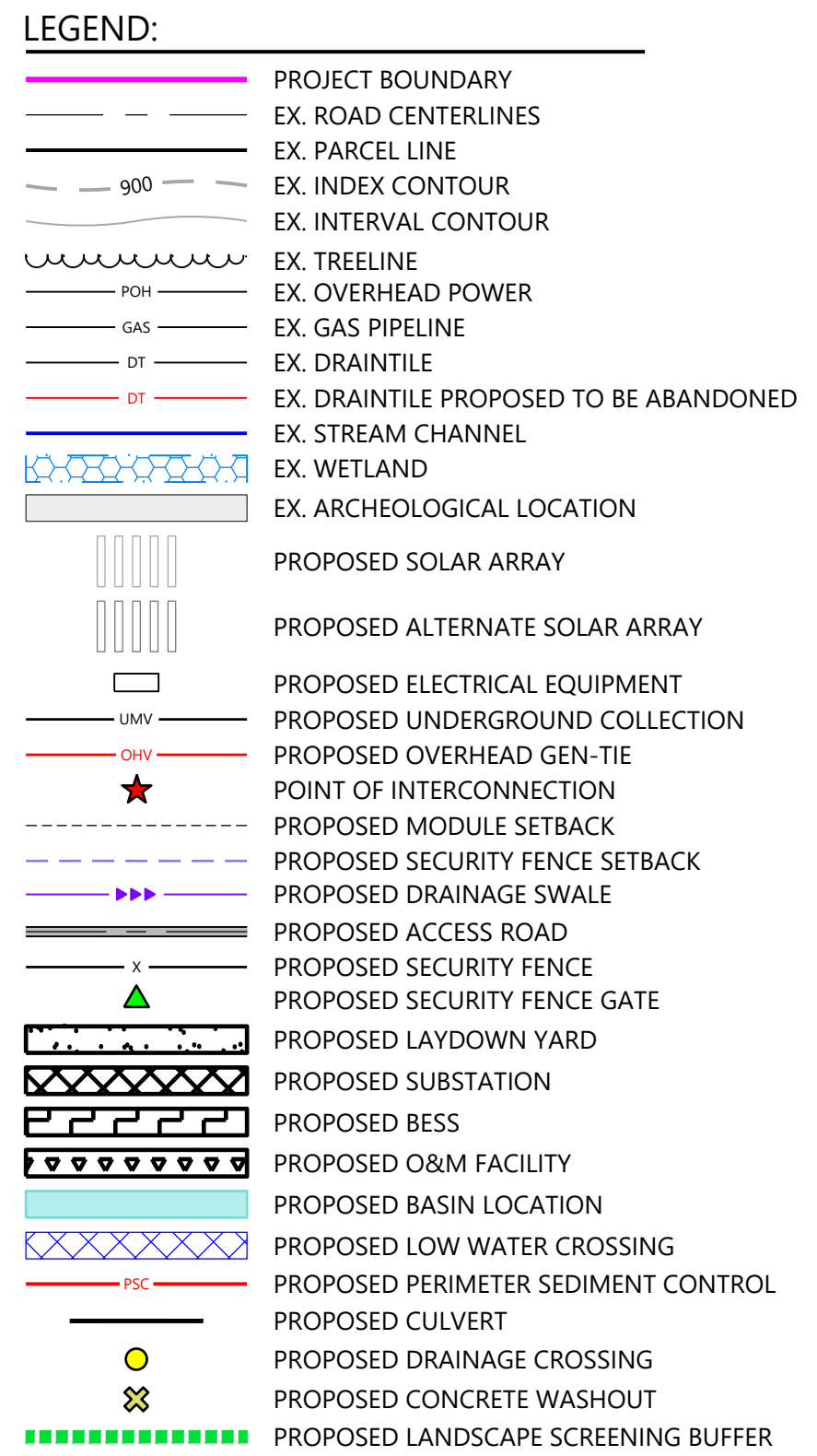
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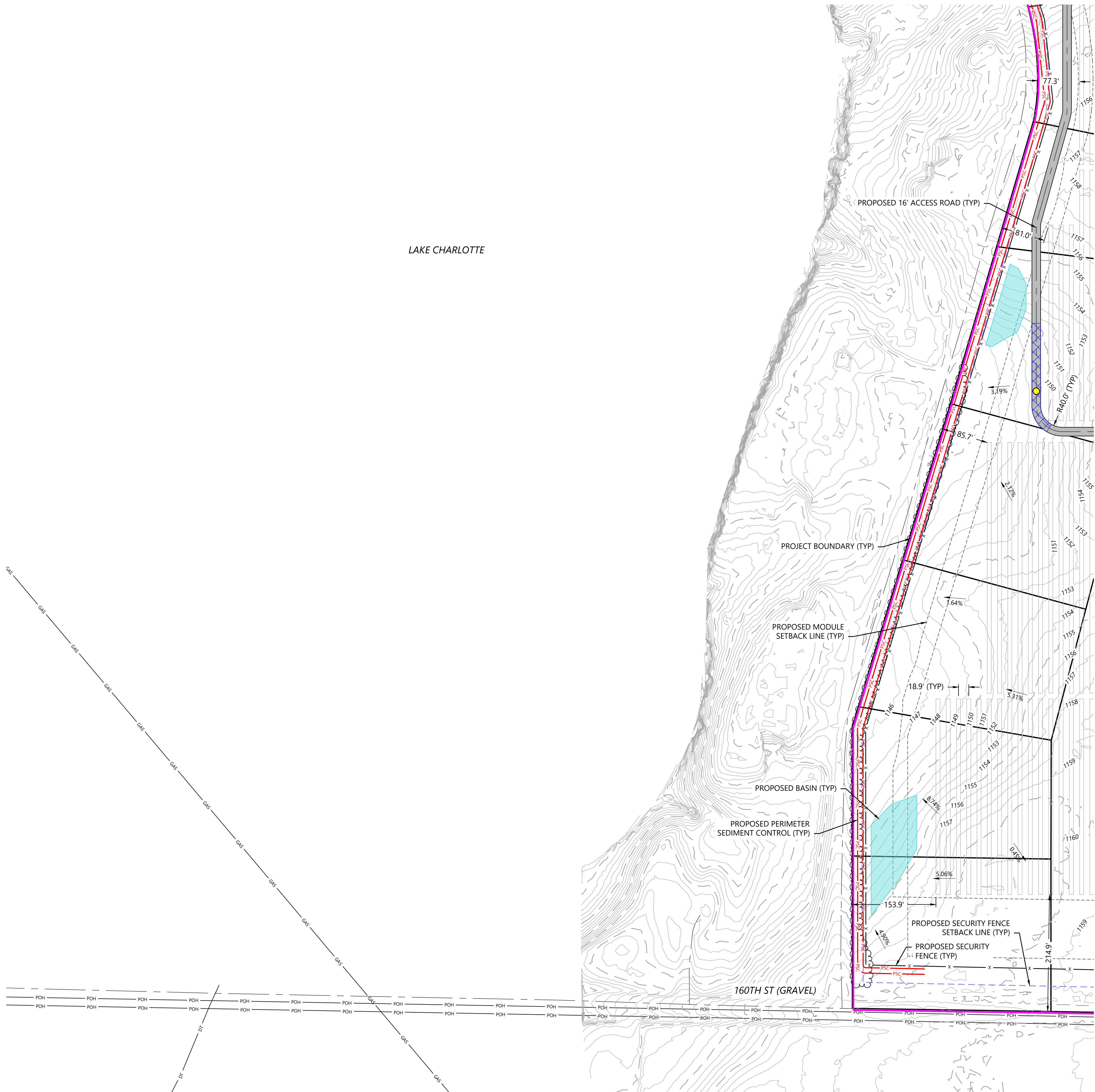
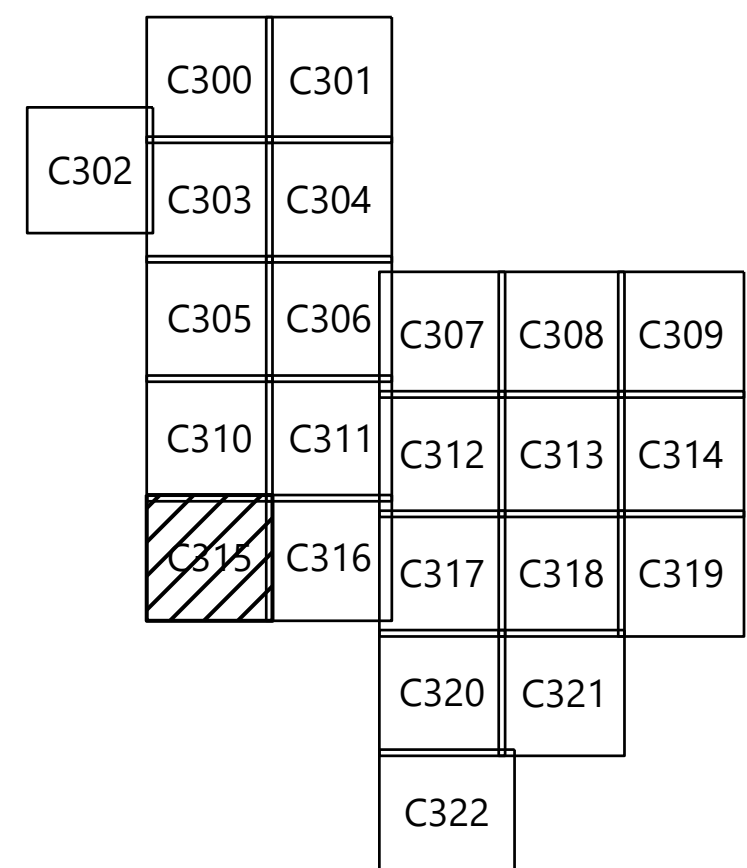
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KEY MAP:

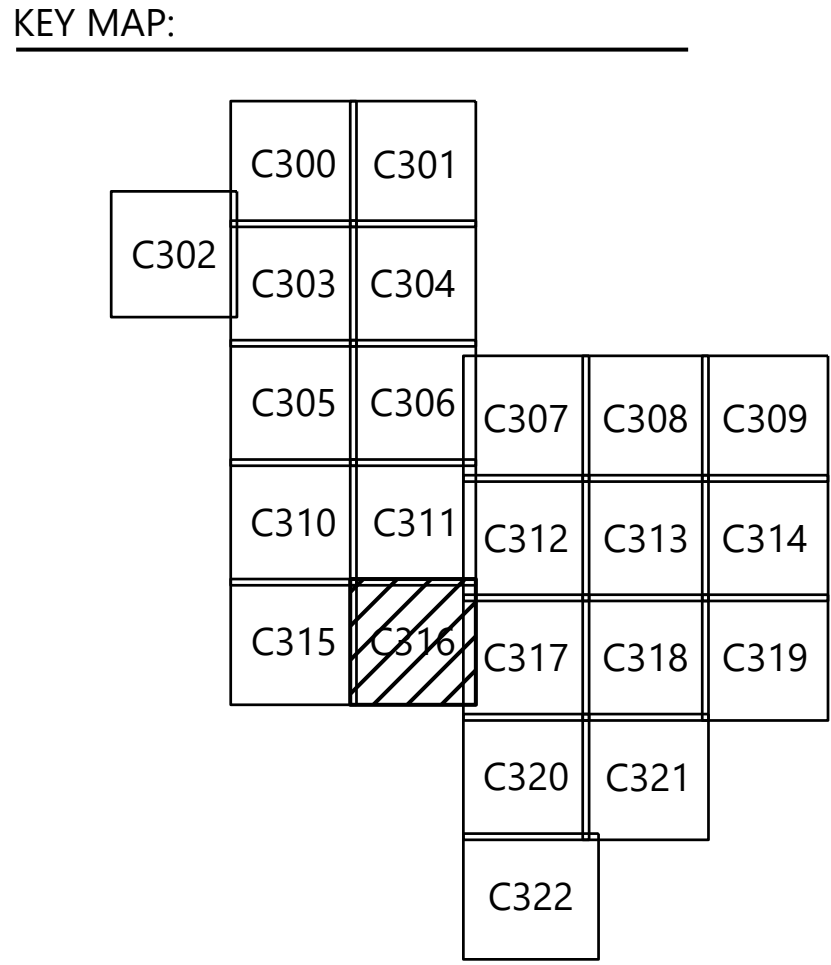


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- LEGEND:**
- PROJECT BOUNDARY
 - EX. ROAD CENTERLINES
 - EX. PARCEL LINE
 - EX. INDEX CONTOUR
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Lake Charlotte Solar Project

Martin County, Minnesota

Civil Site Plan - 17

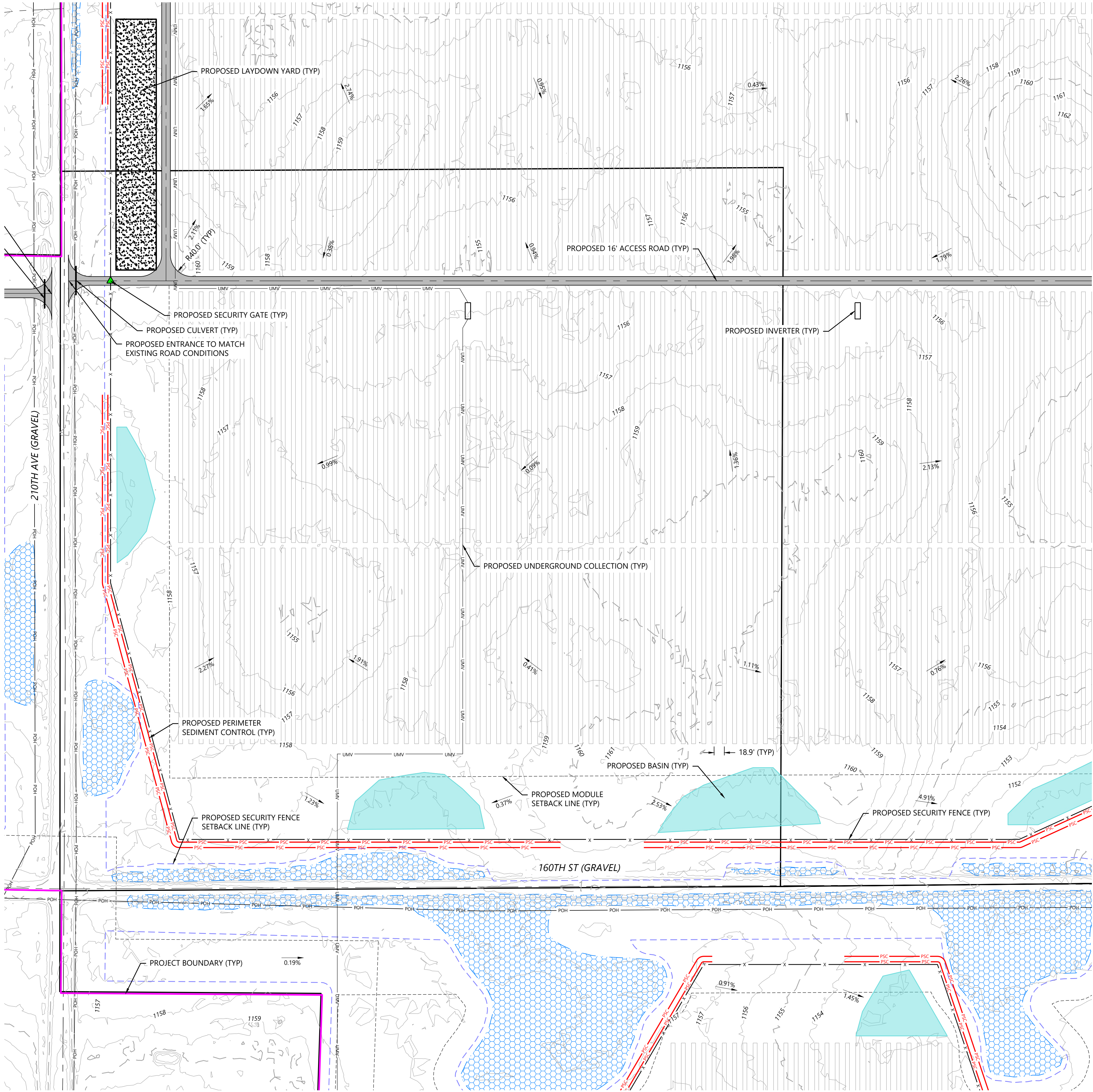
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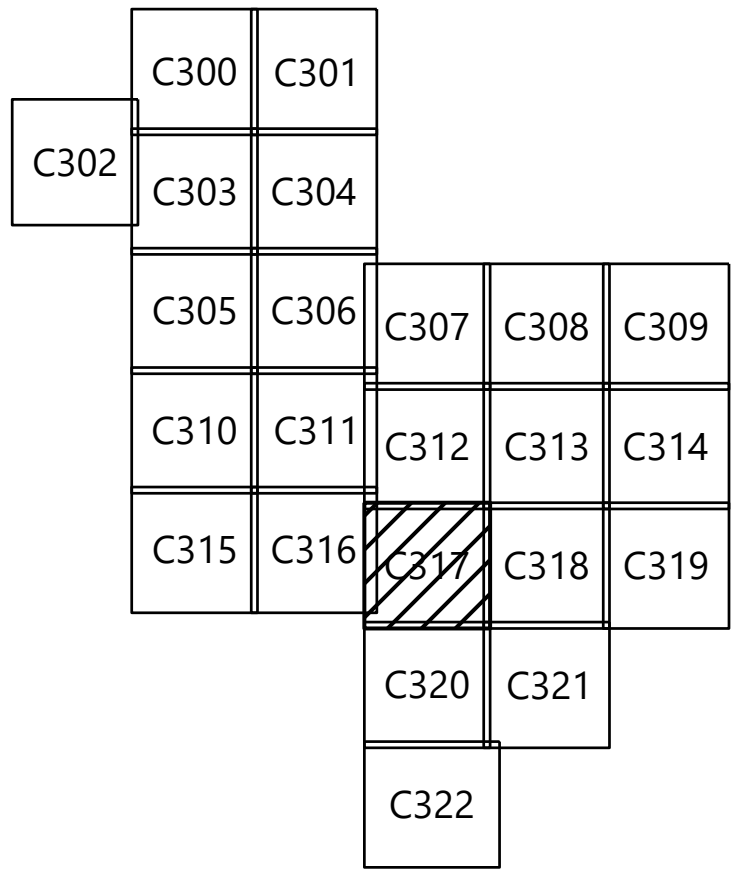
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KEY MAP:



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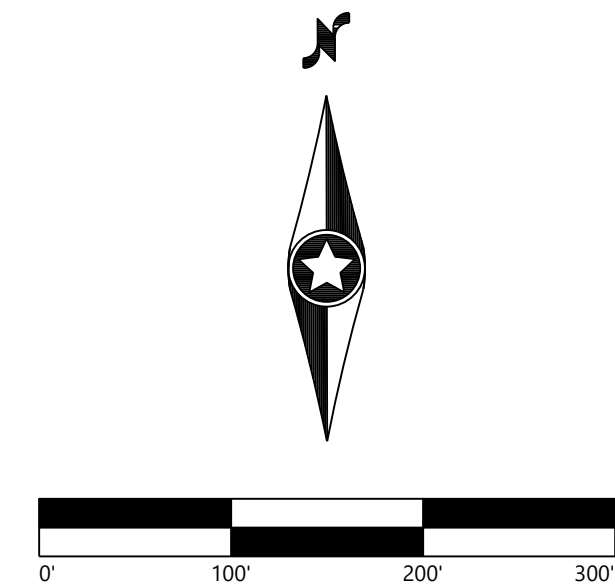
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Lake Charlotte
Solar Project

Martin County, Minnesota

Civil Site Plan - 18

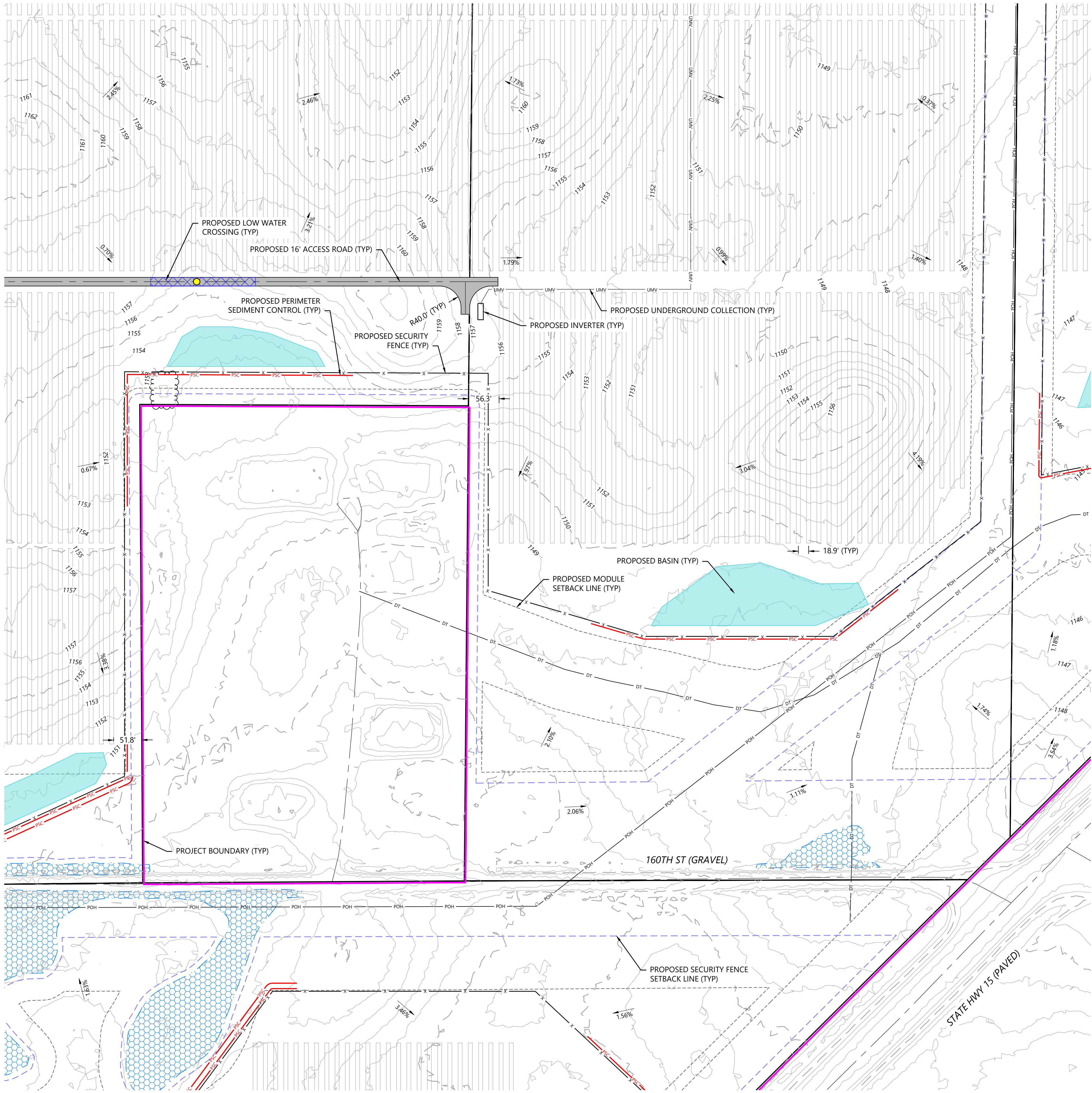
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SHEET: C317

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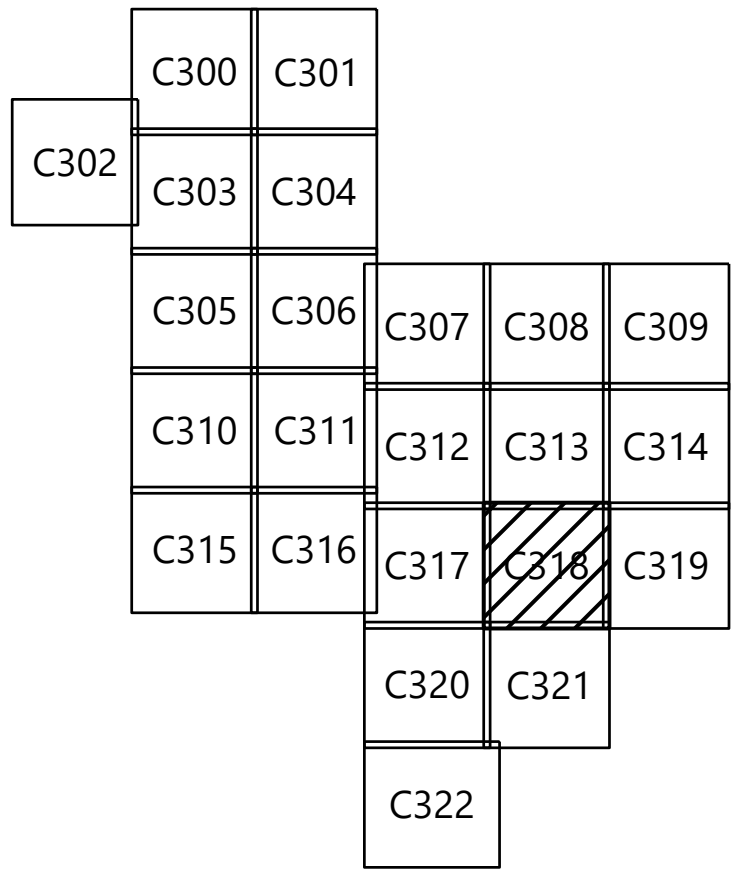


LEGEND:

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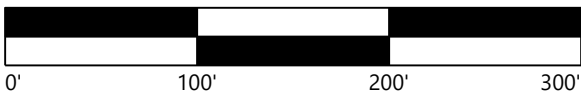
PREPARED FOR:



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 - 19

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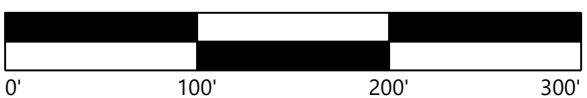
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REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
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Lake Charlotte Solar Project

Martin County, Minnesota

Civil Site Plan - 20

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DATE: 03/28/2025

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LEGEND:

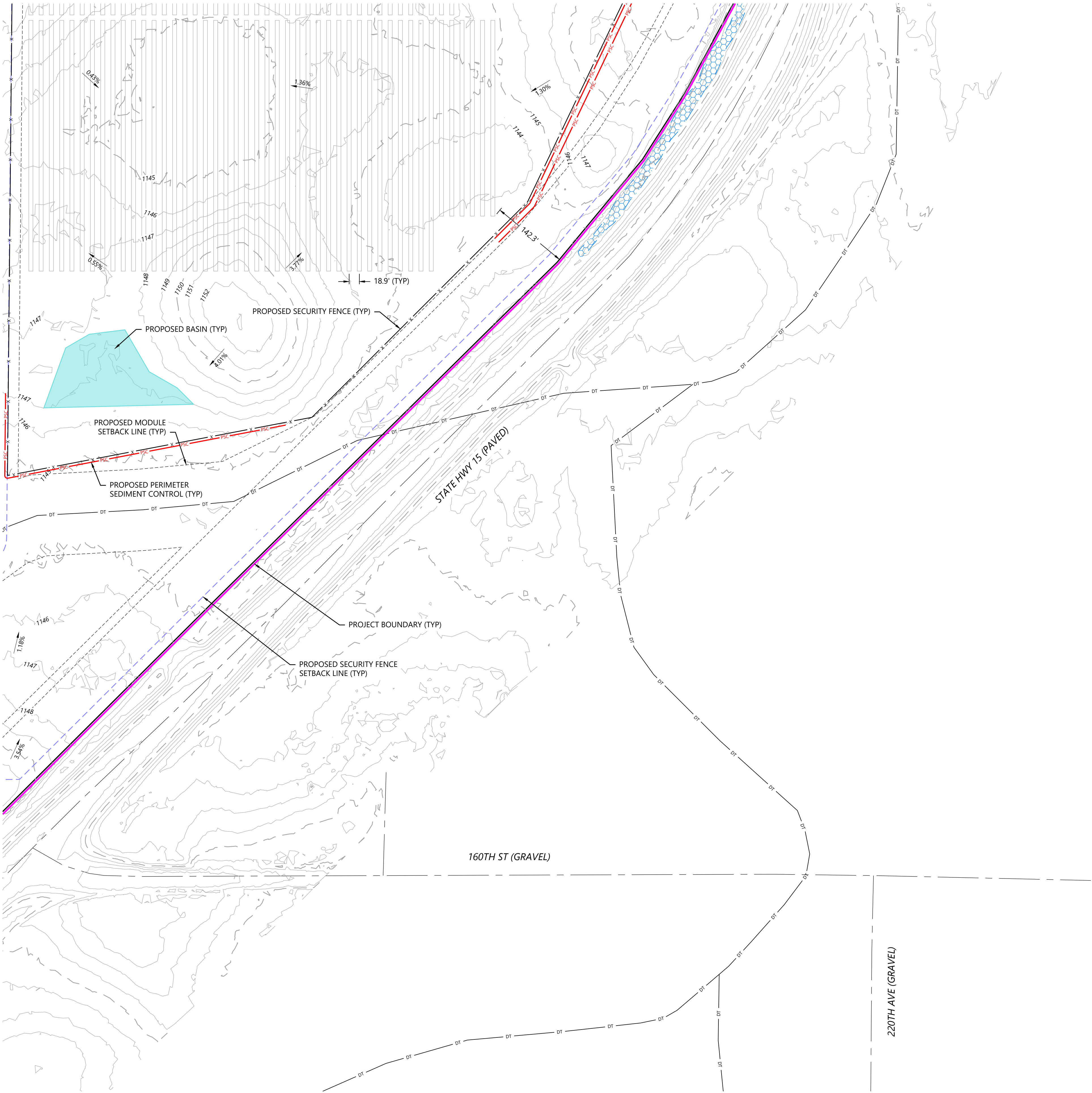
	PROJECT BOUNDARY
	EX. ROAD CENTERLINES
	EX. PARCEL LINE
	EX. INDEX CONTOUR
	EX. INTERVAL CONTOUR
	EX. TREELINE
	EX. OVERHEAD POWER
	EX. GAS PIPELINE
	EX. DRAINTILE
	EX. DRAINTILE PROPOSED TO BE ABANDONED
	EX. STREAM CHANNEL
	EX. WETLAND
	EX. ARCHEOLOGICAL LOCATION
	PROPOSED SOLAR ARRAY
	PROPOSED ALTERNATE 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:

	C300	C301			
C302	C303	C304			
	C305	C306	C307	C308	C309
	C310	C311	C312	C313	C314
	C315	C316	C317	C318	C319
			C320	C321	
			C322		

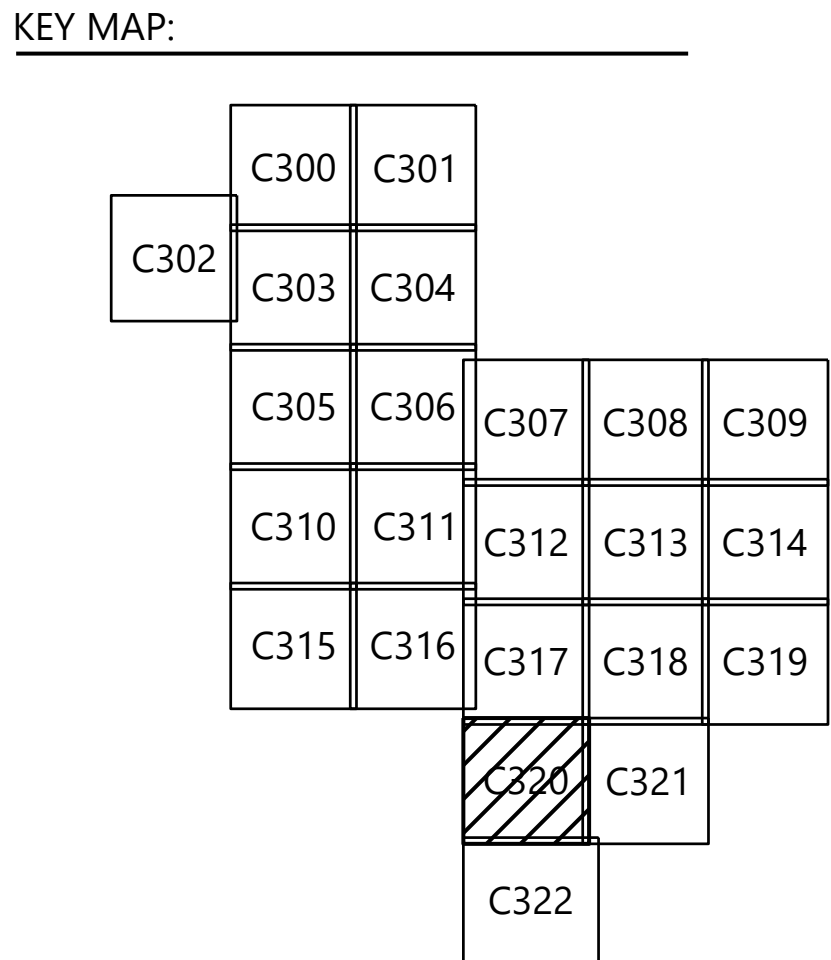


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- LEGEND:**
- PROJECT BOUNDARY
 - EX. ROAD CENTERLINES
 - EX. PARCEL LINE
 - EX. INDEX CONTOUR
 - EX. INTERVAL CONTOUR
 - EX. TREELINE
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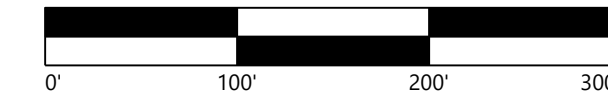
PREPARED FOR:



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REVISIONS:

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Lake Charlotte Solar Project

Martin County, Minnesota

Civil Site Plan - 21

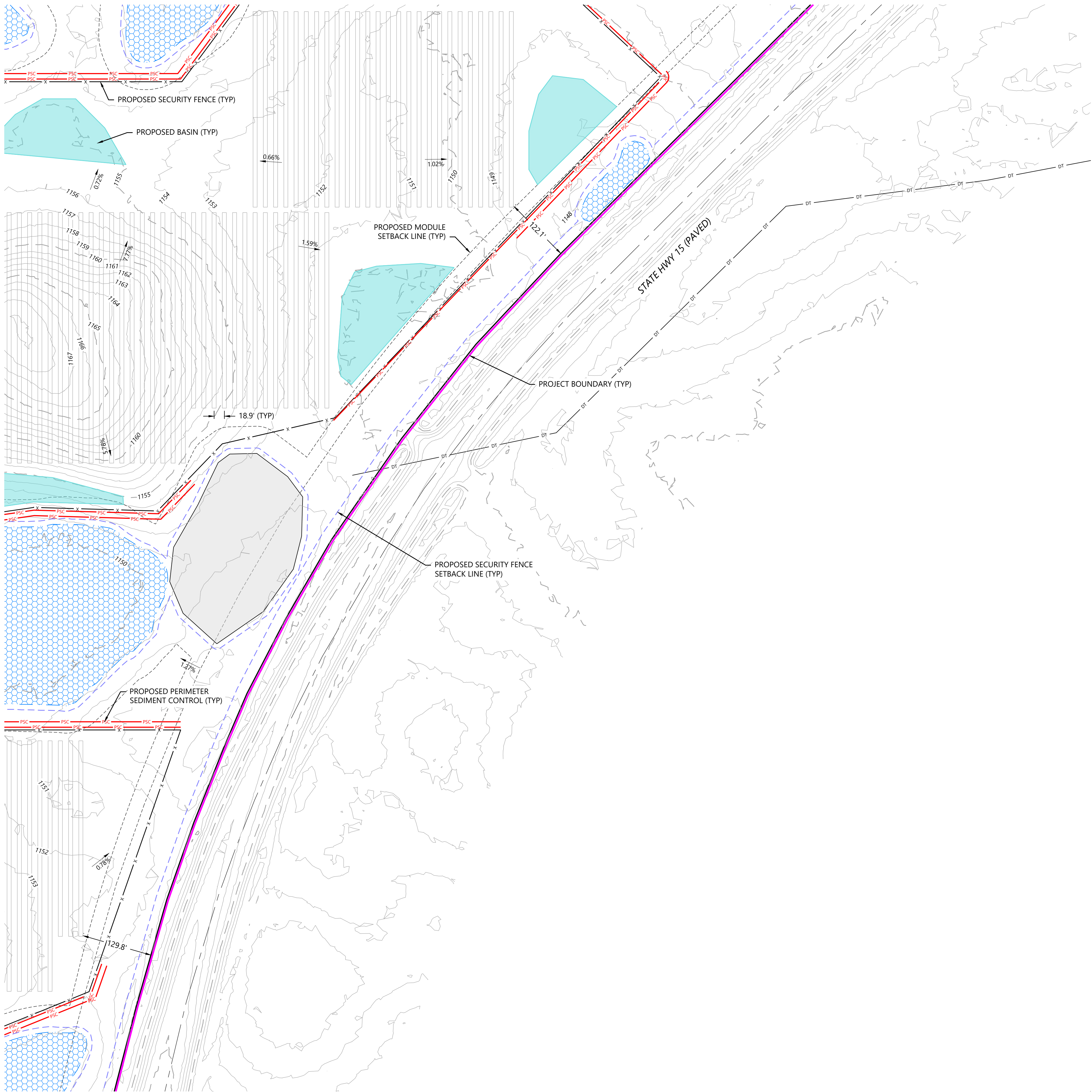
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DATE: 03/28/2025

SHEET: C320

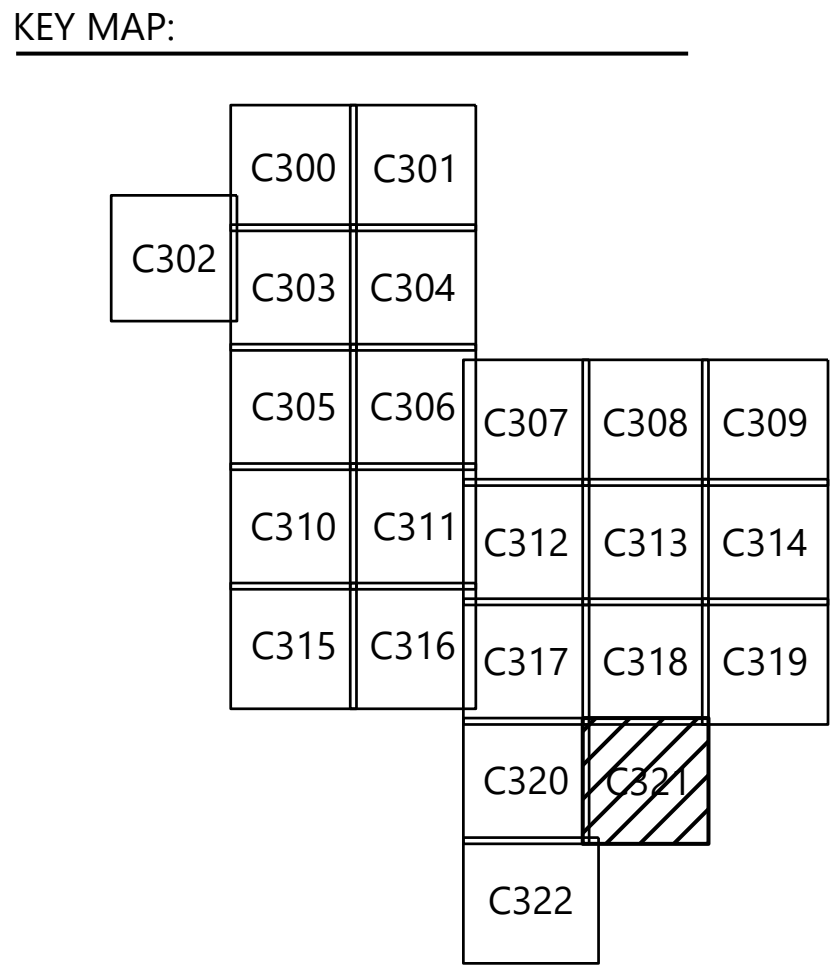
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- LEGEND:
- PROJECT BOUNDARY
 - EX. ROAD CENTERLINES
 - EX. PARCEL LINE
 - EX. INDEX CONTOUR
 - EX. INTERVAL CONTOUR
 - EX. TREELINE
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Lake Charlotte Solar Project

Martin County, Minnesota

Civil Site Plan - 22

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C

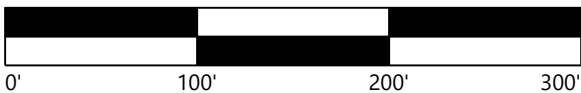
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Lake Charlotte Solar Project

Martin County, Minnesota

Civil Site Plan - 23

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DATE: 03/28/2025

SHEET: C322

REV:

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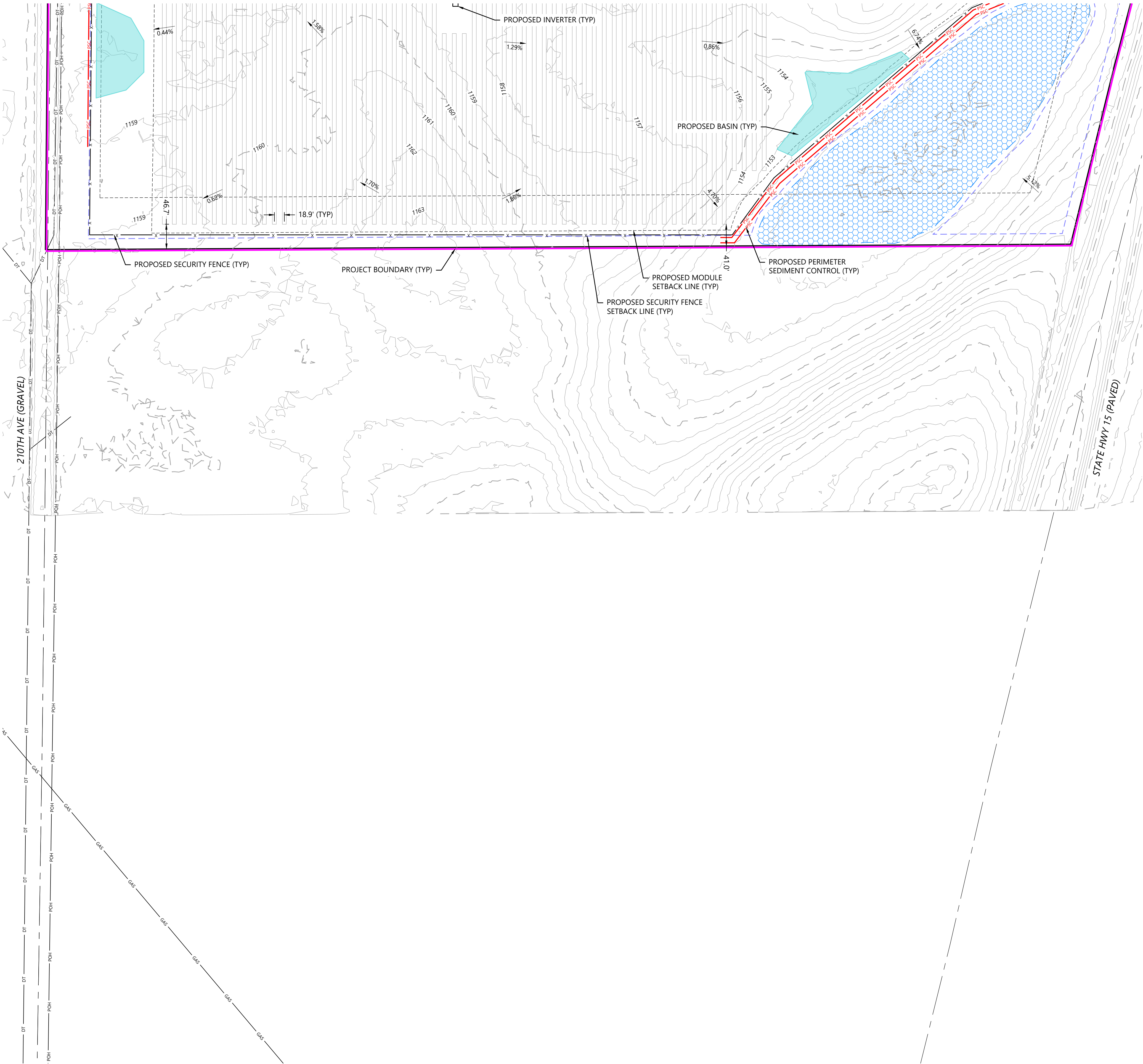
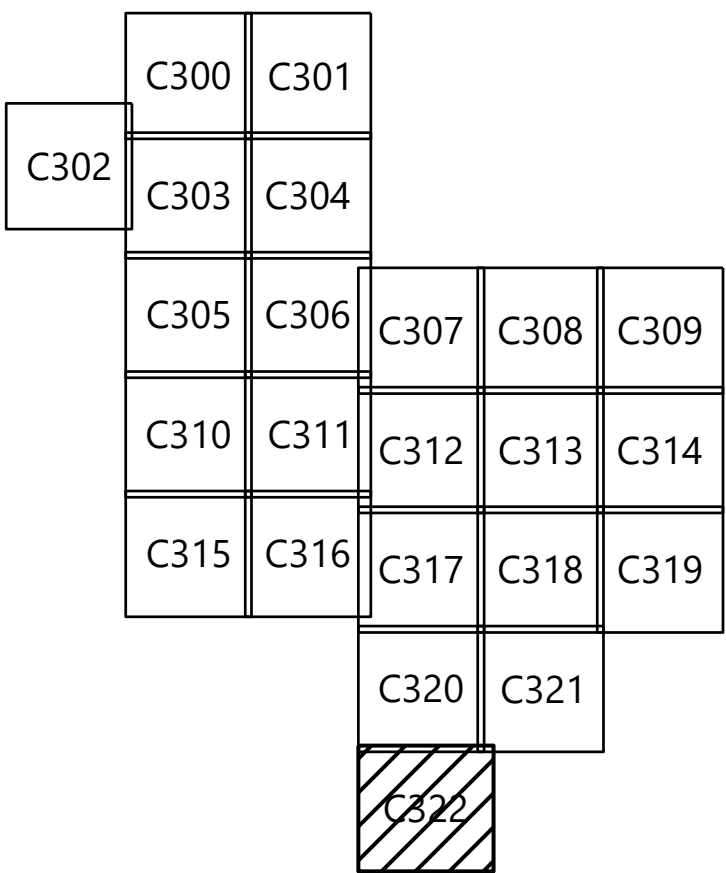
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	EX. PARCEL LINE
	EX. INDEX CONTOUR
	EX. INTERVAL CONTOUR
	EX. TREELINE
	EX. OVERHEAD POWER
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KEY MAP:



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Lake Charlotte Solar Project

Martin County, Minnesota

Construction Details

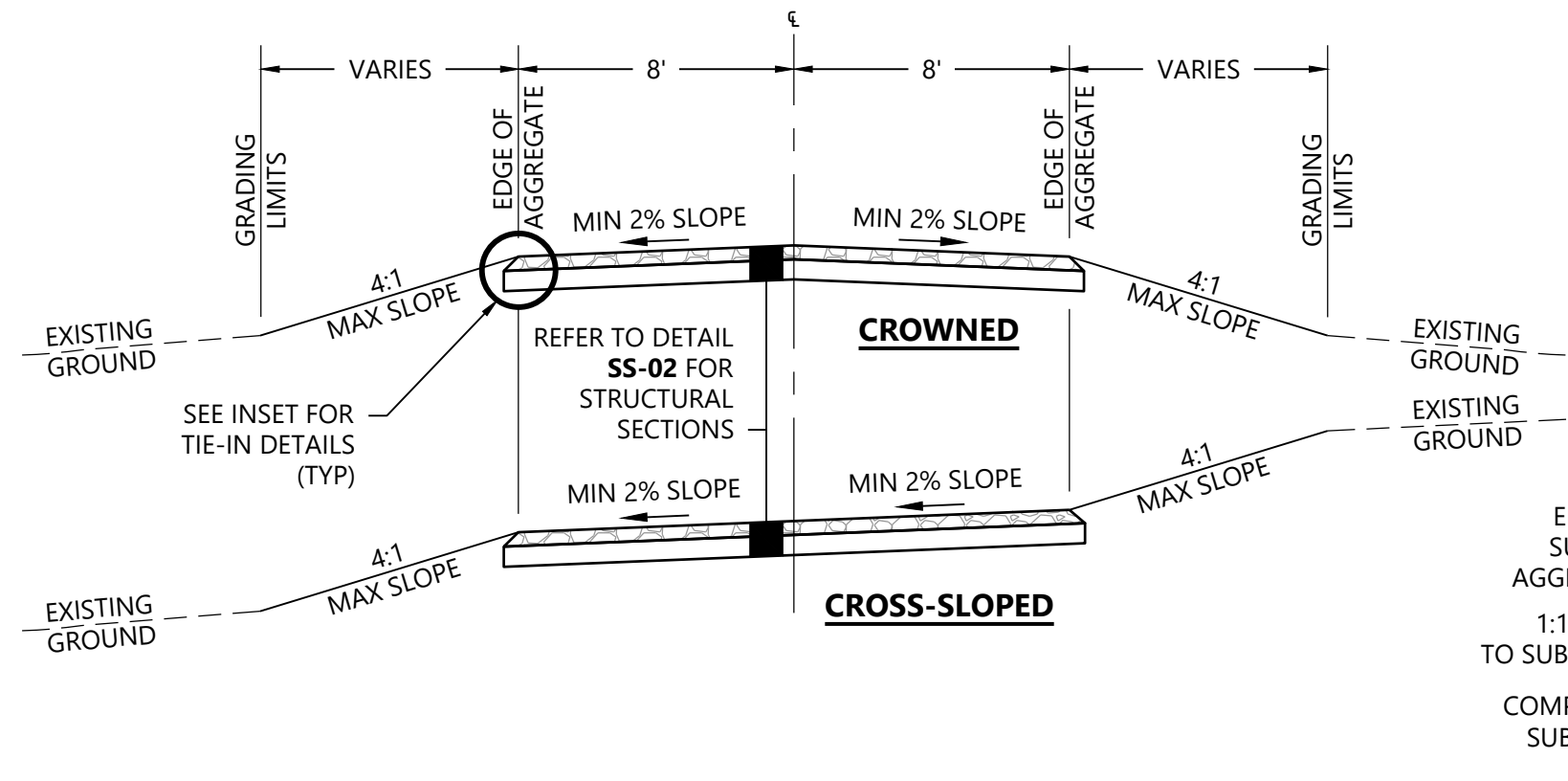
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NOTES:

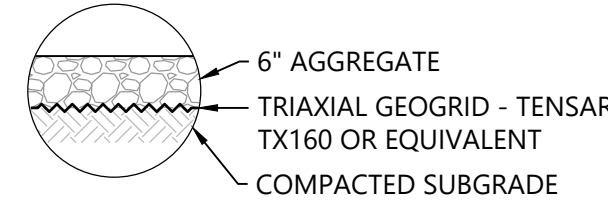
1. ENSURE THAT ROADS REMAIN WELL-DRAINED.
2. CONSTRUCT CROSS-SLOPE WHERE ROADS ARE CONSTRUCTED ON A SIDE SLOPE, AND WHERE OTHERWISE NOTED ON PLANS.
3. SLOPES SHOWN ARE TYPICAL. SOME ROAD LOCATIONS MAY REQUIRE VARIATIONS IN SLOPE.
4. ALL DISTURBED GROUND NOT COVERED WITH AGGREGATE SHALL BE STABILIZED PER THE NPDES PERMIT.

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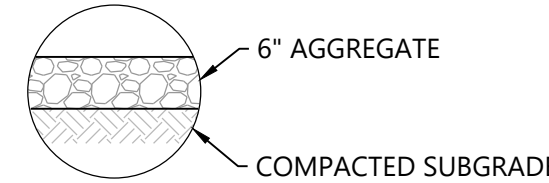
TYPICAL ACCESS ROAD

NOT TO SCALE

RD-05



ACCESS ROAD SECTION



TEMPORARY LAYDOWN SECTION

NOTES:

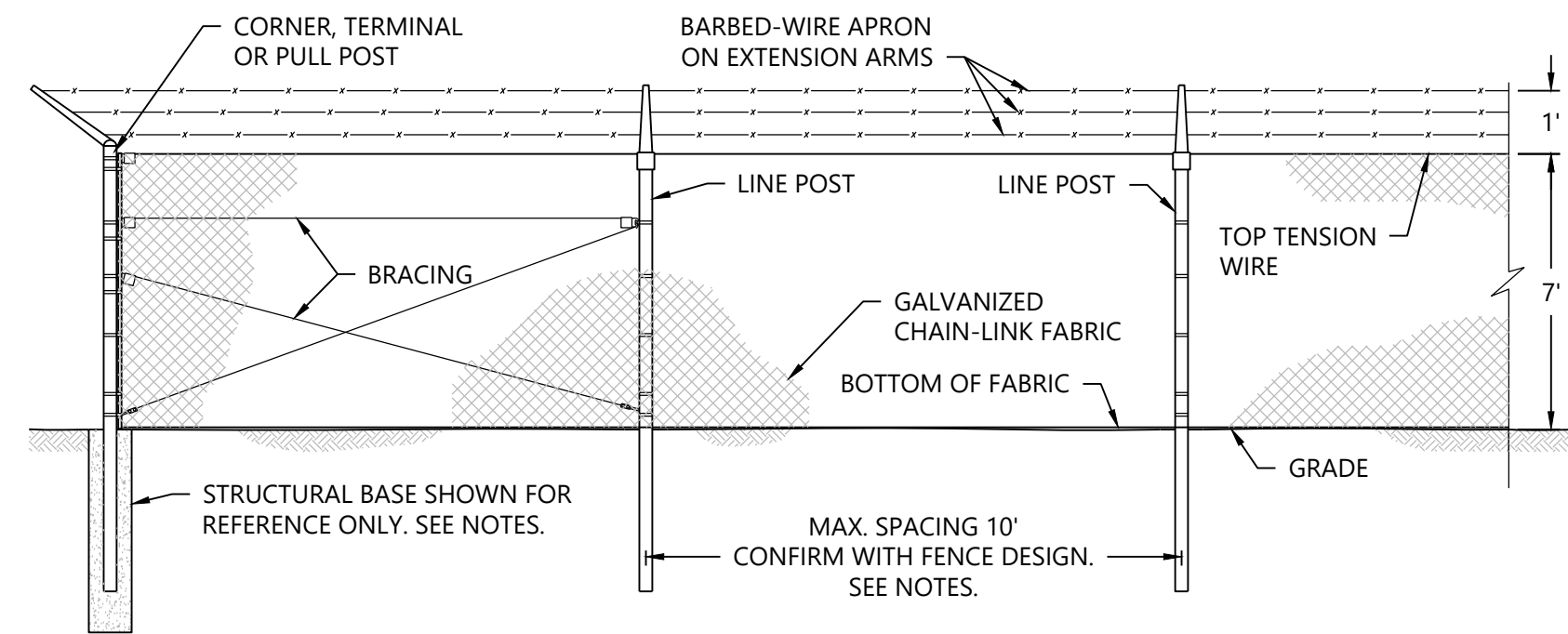
1. REFER TO CONSTRUCTION SPECIFICATIONS, AGGREGATE REQUIREMENTS, AND TESTING REQUIREMENTS.
2. STRUCTURAL SECTIONS SHOWN ARE THE MINIMUM THICKNESS DURING NORMAL FIELD CONDITIONS. THE SECTIONS MAY NEED TO BE INCREASED BASED ON ACTUAL FIELD CONDITIONS AT THE TIME OF CONSTRUCTION. CONDITIONS INCLUDE, BUT ARE NOT LIMITED TO, CONSTRUCTION DURING UNUSUALLY WET PERIODS, IN LOW/WET AREAS OR SOFT SOILS.
3. CROSS SECTIONS ARE PRELIMINARY AND TYPICAL ASSUMPTIONS, SUBJECT TO CHANGE WITH SITE SPECIFIC GEOTECHNICAL REPORT.

Westwood

STRUCTURAL CROSS SECTIONS

NOT TO SCALE

SS-02



NOTES:

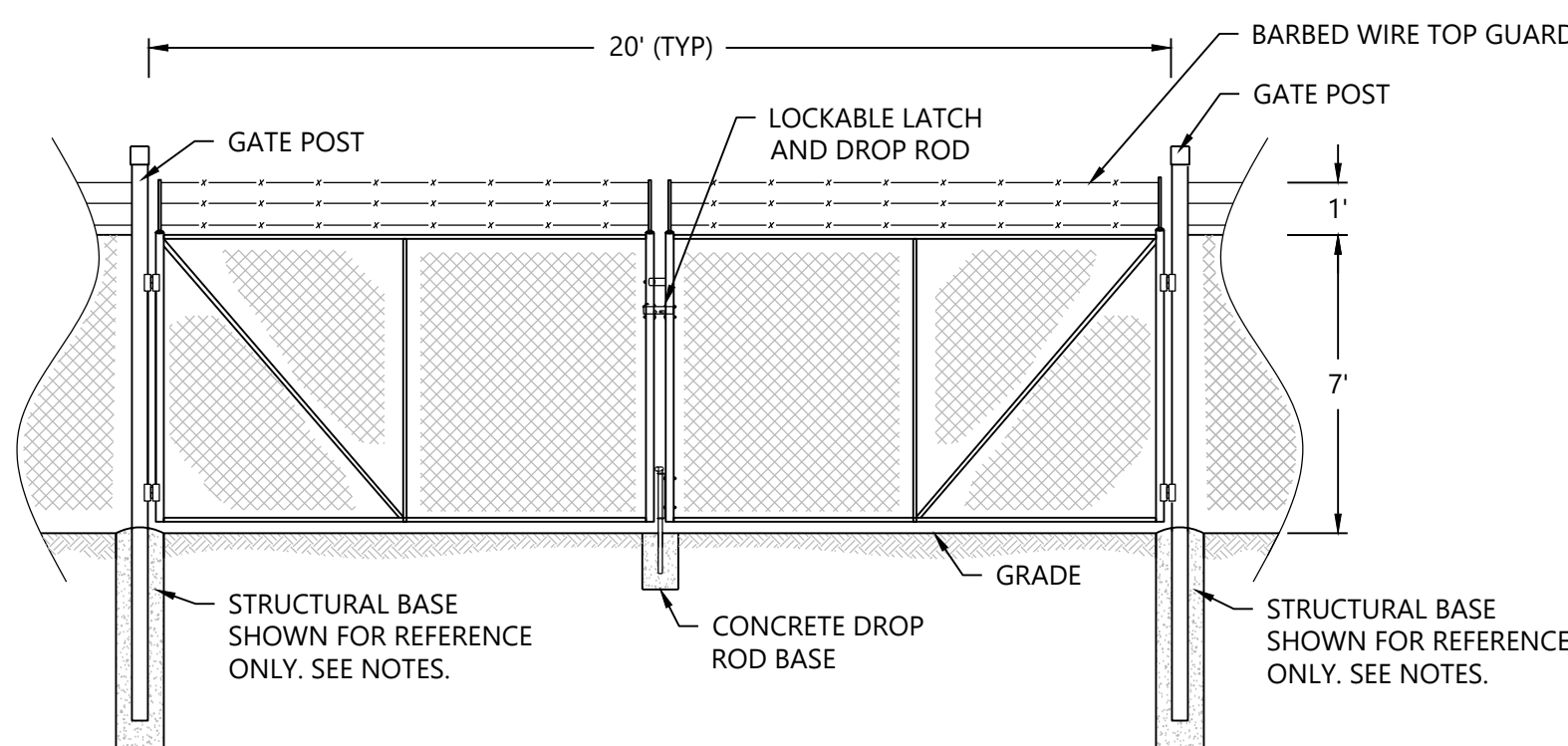
1. TYPICAL FENCE AND GATE INFORMATION SHOWN IS INTENDED FOR PLANNING PURPOSES. ACTUAL DIMENSIONS AND INFORMATION TO BE PROVIDED BY FENCE SUPPLIER.
2. REFER TO FENCE SUPPLIER SPECIFICATIONS AND DETAILS.
3. STRUCTURAL DESIGN OF FENCE POSTS AND FOUNDATIONS TO BE PROVIDED BY FENCE SUPPLIER. STRUCTURAL PLANS AND FENCE SUPPLIER DRAWINGS SHALL SUPERSEDE THIS DETAIL IF CONFLICTS ARE PRESENT.
4. FENCE AND GATE TYPE TO BE APPROVED BY OWNER PRIOR TO CONSTRUCTION.
5. REFER TO ELECTRICAL PLANS FOR GROUNDING REQUIREMENTS.

Westwood

CHAIN-LINK SECURITY FENCE

NOT TO SCALE

FN-01



NOTES:

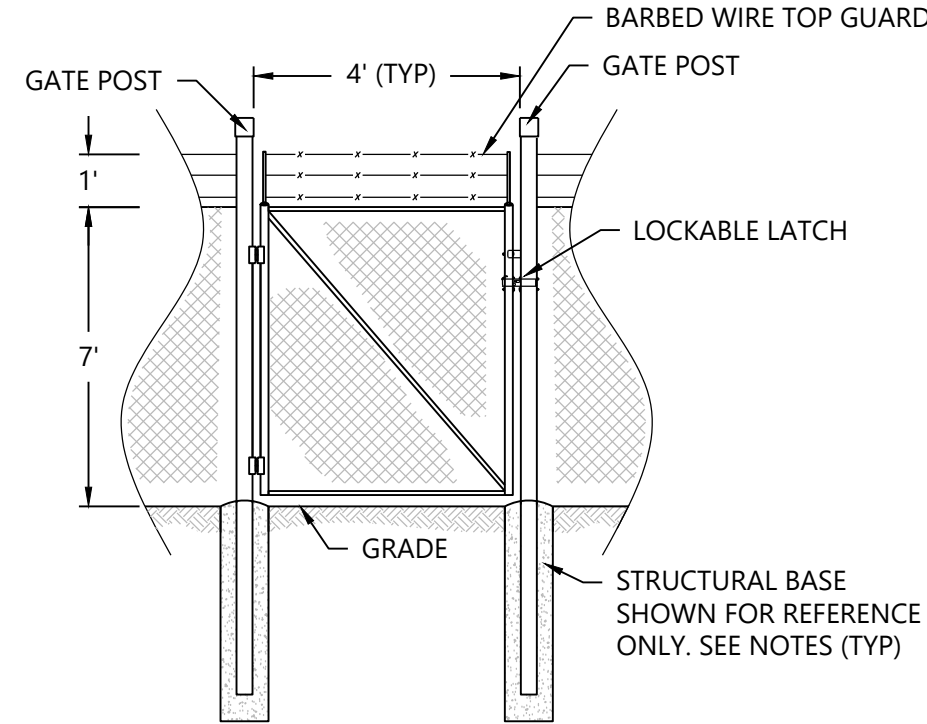
1. SEE NOTES ON DETAIL FN-01.

Westwood

CHAIN-LINK SECURITY VEHICLE GATE

NOT TO SCALE

FN-02



NOTES:

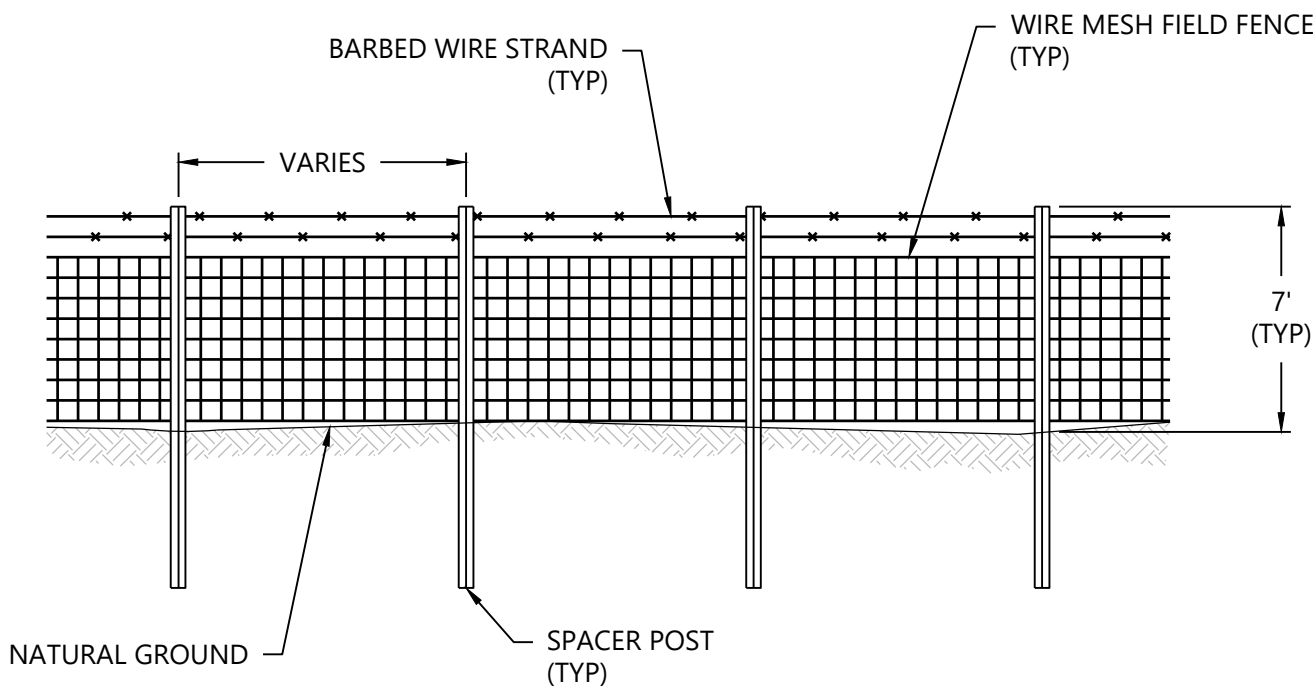
1. SEE NOTES ON DETAIL FN-01.

Westwood

CHAIN-LINK SECURITY PERSONNEL GATE

NOT TO SCALE

FN-03



NOTES:

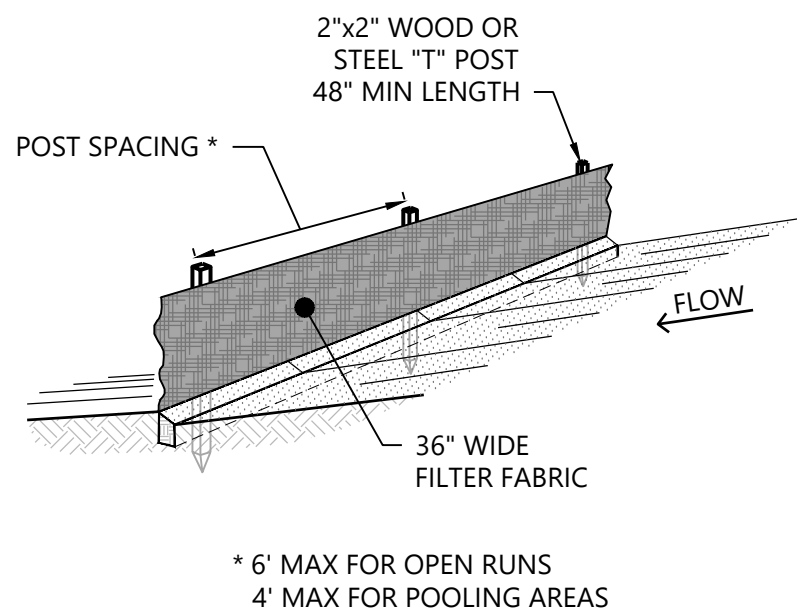
1. NUMBER OF BARBED WIRE STRANDS, FENCE MATERIAL, AND CONFIGURATION SHALL MATCH EXISTING FENCES OR AS APPROVED BY OWNER.
2. TYPICAL FENCE AND GATE INFORMATION SHOWN IS INTENDED FOR PLANNING PURPOSES. ACTUAL DIMENSIONS AND INFORMATION TO BE PROVIDED BY FENCE SUPPLIER.
3. REFER TO FENCE SUPPLIER SPECIFICATIONS AND DETAILS.
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5. STRUCTURAL PLANS AND FENCE SUPPLIER DRAWINGS SHALL SUPERSEDE THIS DETAIL IF CONFLICTS ARE PRESENT.
6. ALL FENCES SHALL BE TIED BACK TO MAINTAIN TENSION ON EXISTING FENCE PRIOR TO CUTTING OF THE EXISTING WIRES.

Westwood

PERMANENT WIRE MESH FIELD FENCE

NOT TO SCALE

FN-20



PERSPECTIVE VIEW

NOTES:

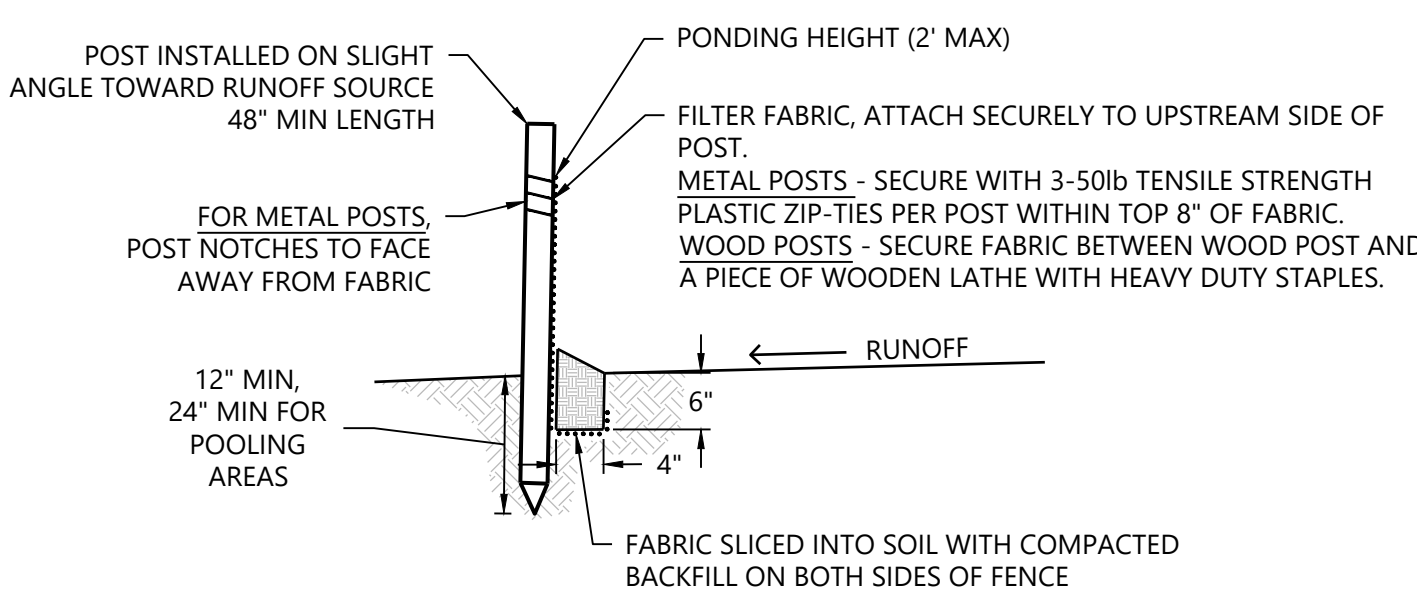
1. SILT FENCE MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE WOVEN OR NONWOVEN FABRIC. THE FABRIC WIDTH SHOULD BE 36 INCHES, WITH A MINIMUM UNIT WEIGHT OF 4.5 OZ/YD, MULLEN BURST STRENGTH EXCEEDING 190 LB/IN 2, ULTRAVIOLET STABILITY EXCEEDING 70%, AND MINIMUM APPARENT OPENING SIZE OF U.S. SIEVE NO. 30.
2. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST. WHERE FABRIC ENDS MEET, WRAP AND TWIST THE FABRIC AROUND THE POST FOR A SECURE CONNECTION.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
4. ALL ENDS OF THE SILT FENCE SHALL BE WRAPPED UPSLOPE SO THE ELEVATION OF THE BOTTOM OF FABRIC IS HIGHER THAN "PONDING HEIGHT".
5. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN ACCUMULATED TO 1/3 HEIGHT OF THE FABRIC OR MORE.
6. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
7. SILT FENCE SHOULD REMAIN IN PLACE AND MAINTAINED UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED.
8. INSTALL A SECOND ROW OF SILT FENCE APPROXIMATELY 5' FROM INITIAL ROW WHEN REDUNDANT PROTECTION IS REQUIRED WITHIN 50' OF WETLANDS AND STREAMS.
9. AVOID SPLICED SECTIONS IN LOW LYING (LOAD BEARING) LOCATIONS.

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SILT FENCE - TRENCHED

NOT TO SCALE

SW-11



POST AND TRENCH DETAIL

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Lake Charlotte Solar Project

Martin County, Minnesota

Construction Details

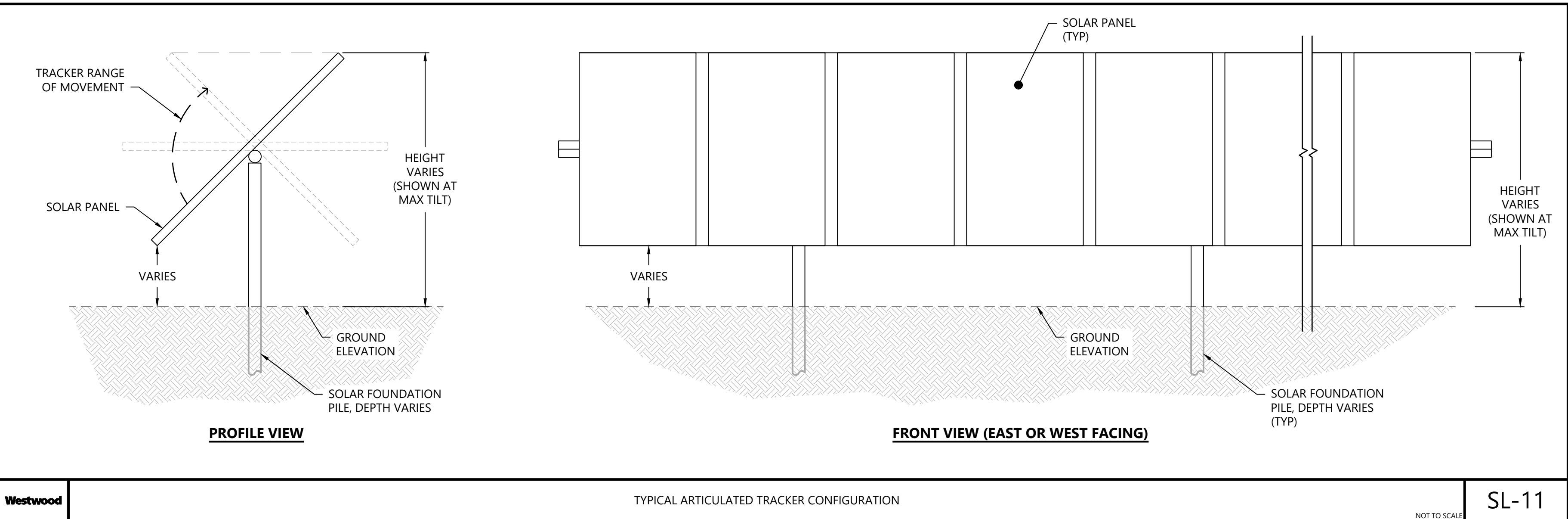
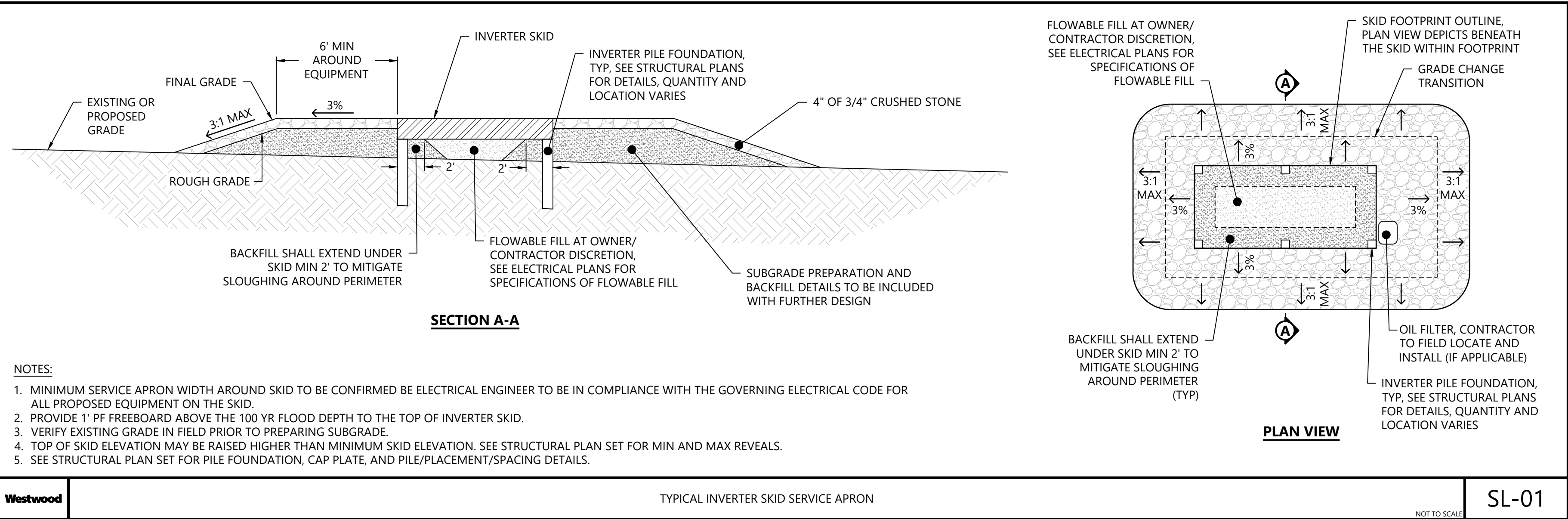
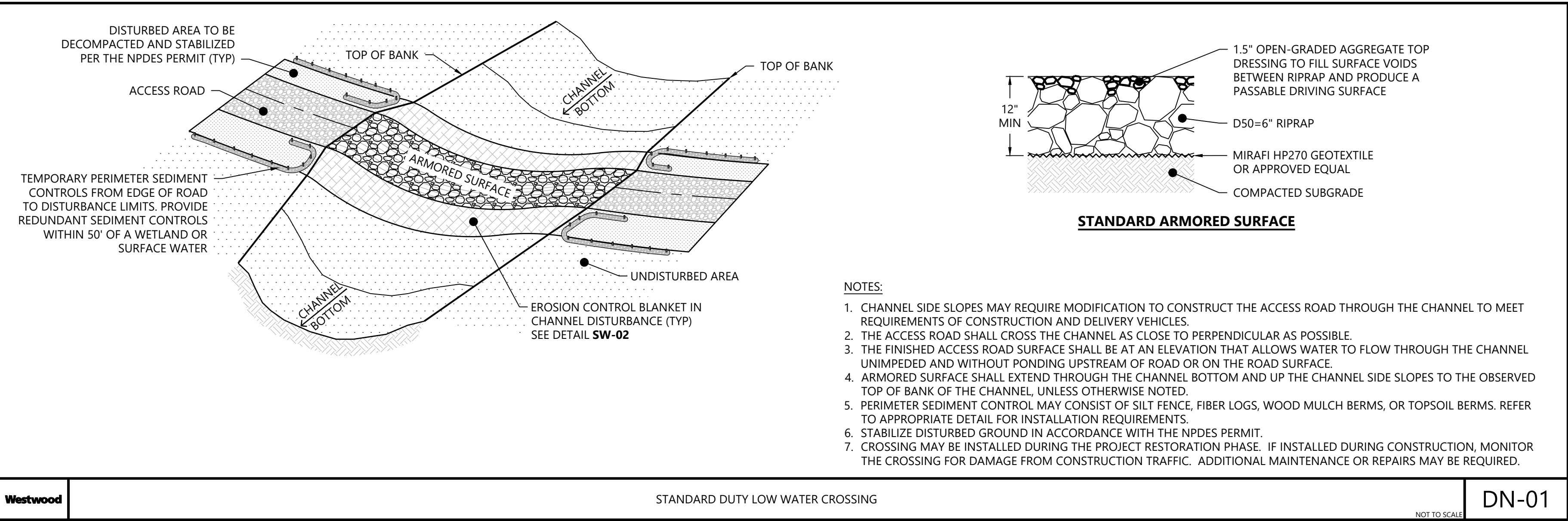
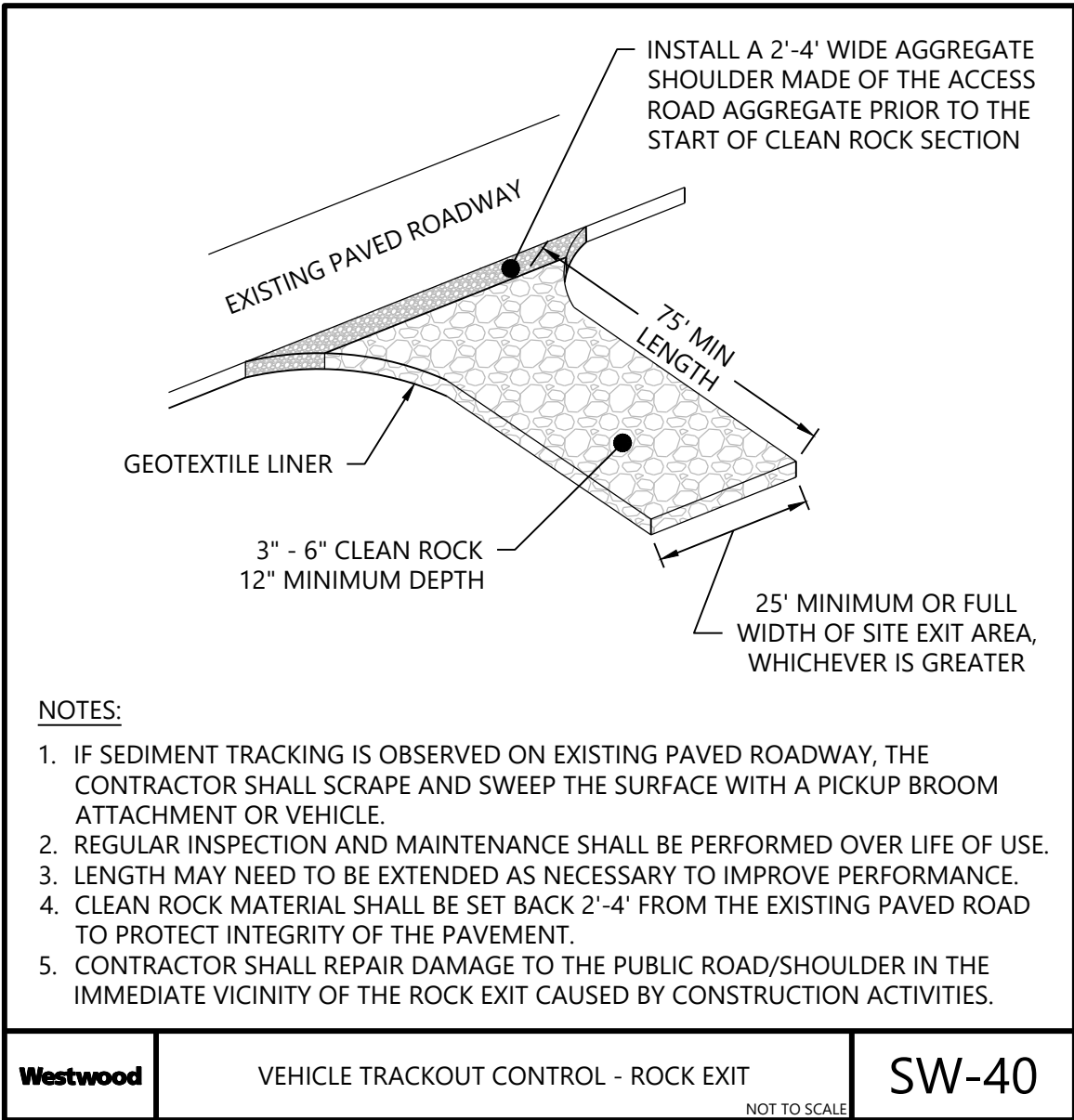
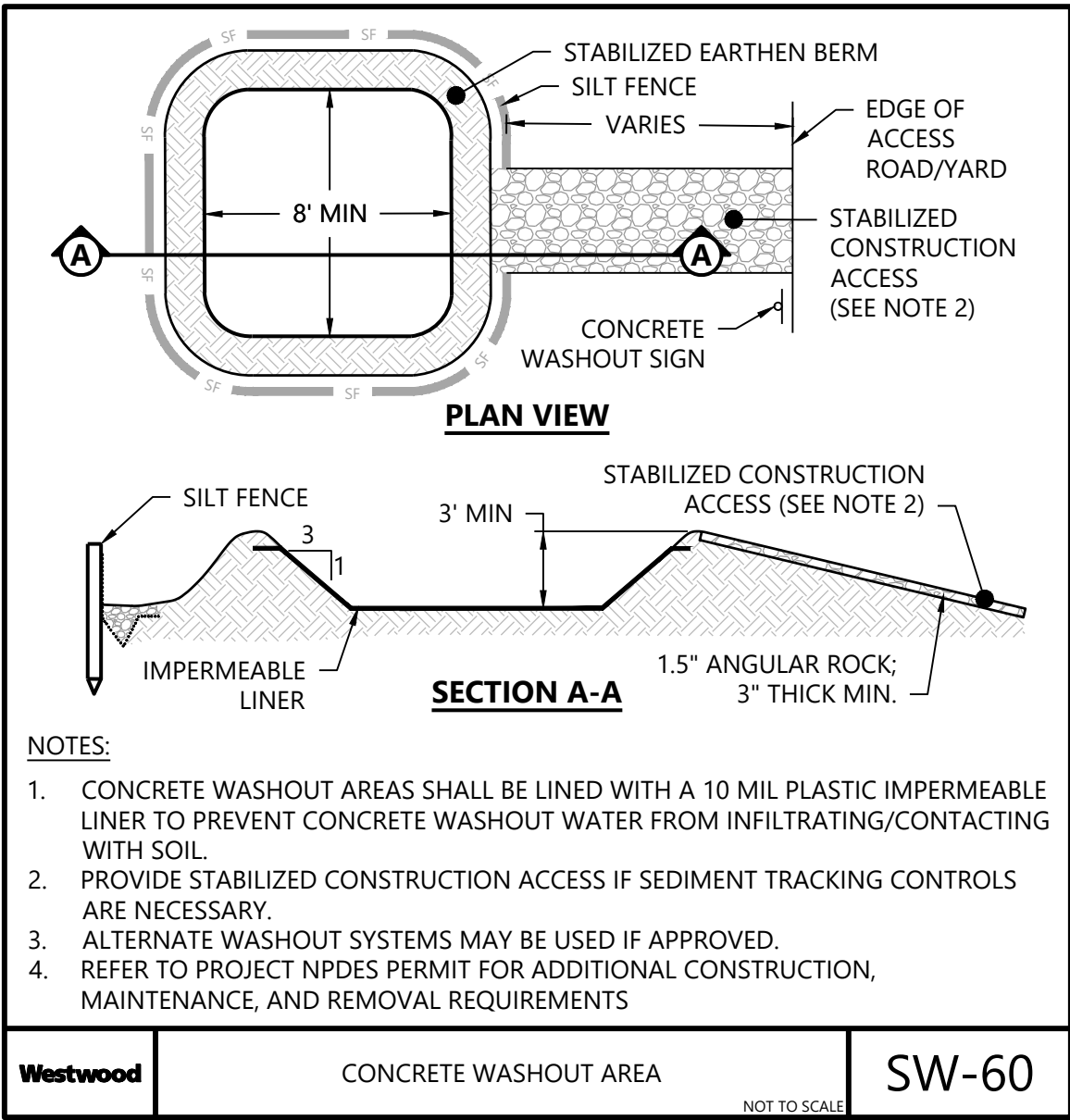
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DATE: 03/28/2025

SHEET: C701

REV:

C



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Martin County, Minnesota

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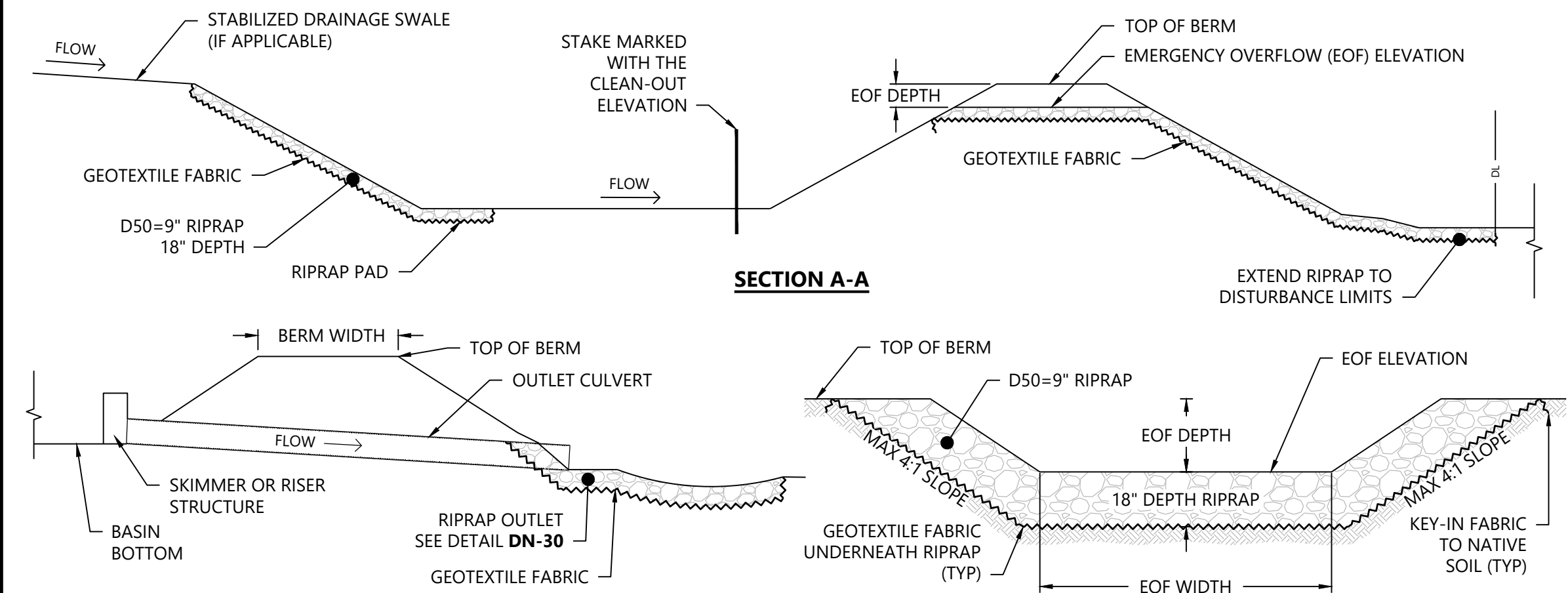
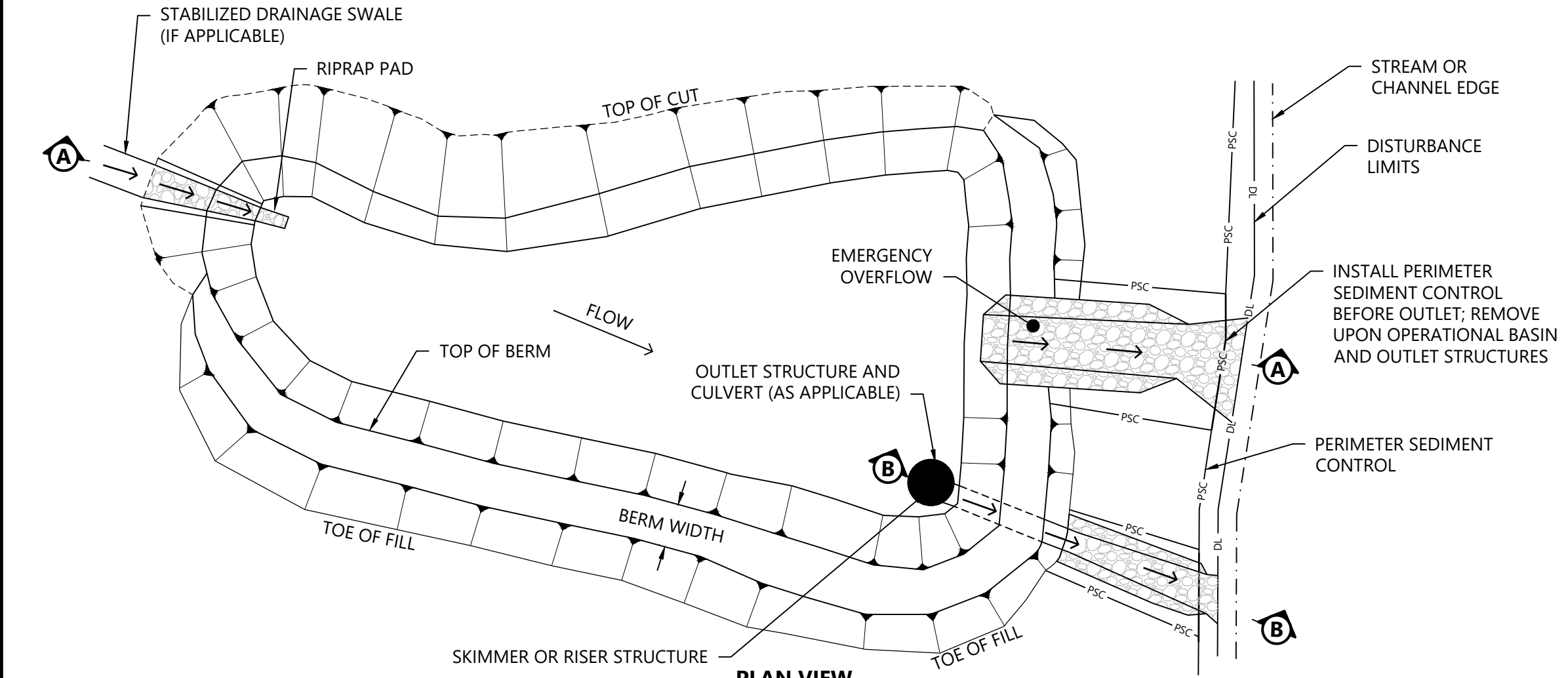
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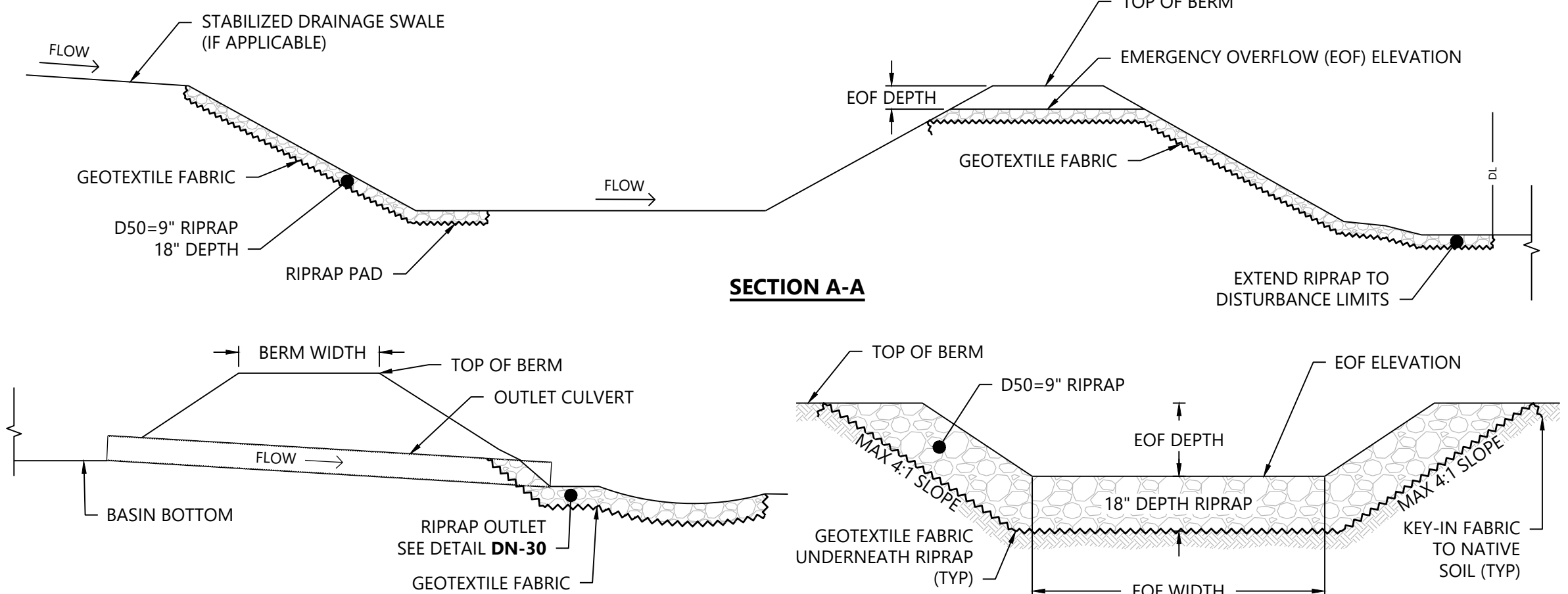
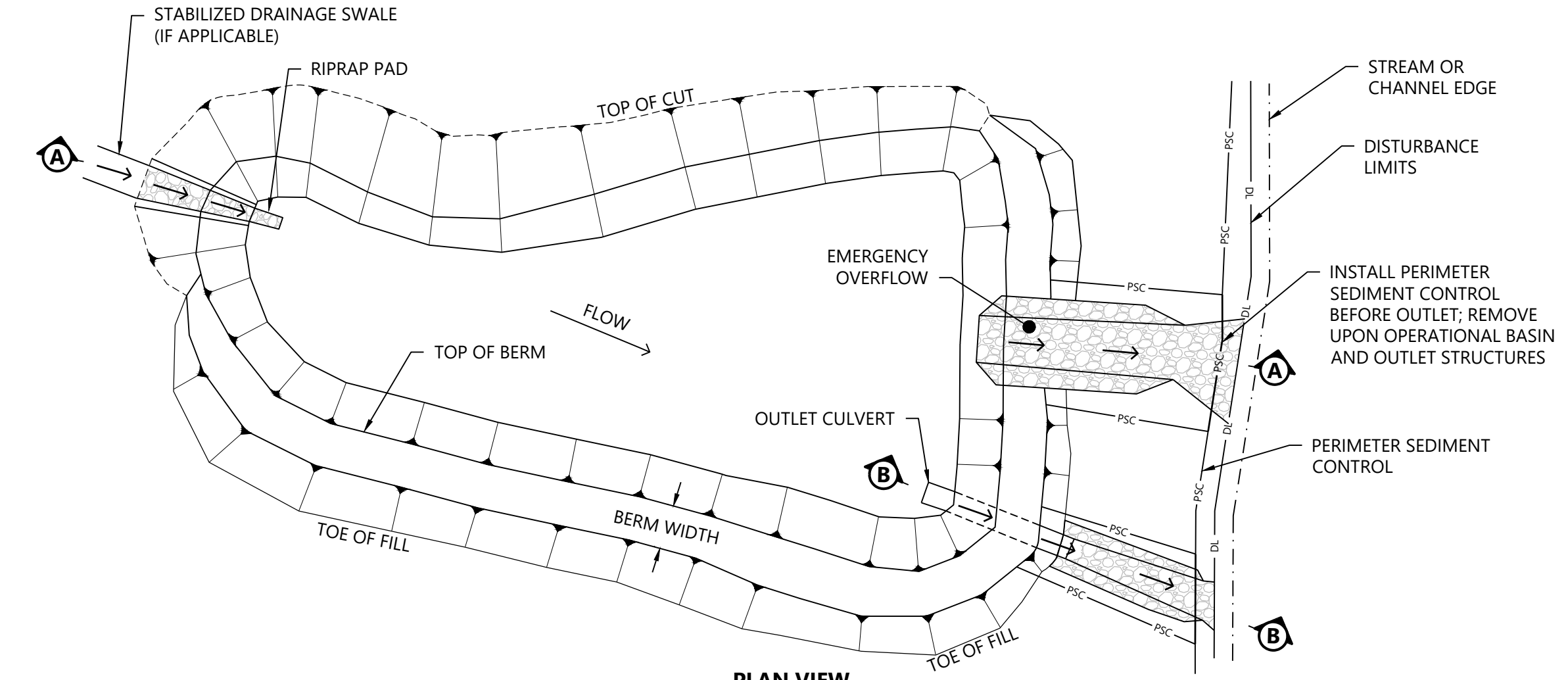
REV:

C



- NOTES:
1. BASIN ELEVATIONS AND SIZES TO BE DETERMINED.
 2. SEE PLANS FOR BASIN LOCATIONS.
 3. ALL GRADED SLOPES SHALL BE A MAXIMUM 4H:1V UNLESS SHOWN OTHERWISE.
 4. REFER TO NPDES PERMIT AND ESC PLAN FOR ADDITIONAL BASIN BMPs AND INSPECTION AND MAINTENANCE PROCEDURES.
 5. THE CLEAN OUT VOLUME IS ONE HALF OF THE TOTAL STORAGE VOLUME. THE CLEAN OUT VOLUME SHALL BE CALCULATED AND MARKED WITH A STAKE IN THE FIELD.
 6. IMMEDIATELY FOLLOWING BASIN CONSTRUCTION, THE SIDE SLOPES OF THE BASIN SHALL BE FULLY STABILIZED. TEMPORARY EROSION AND SEDIMENT CONTROL FEATURES SHALL REMAIN UNTIL PROJECT SITE IS FULLY STABILIZED AND THE BASIN IS RESTORED OR CONVERTED TO PERMANENT CONDITIONS.

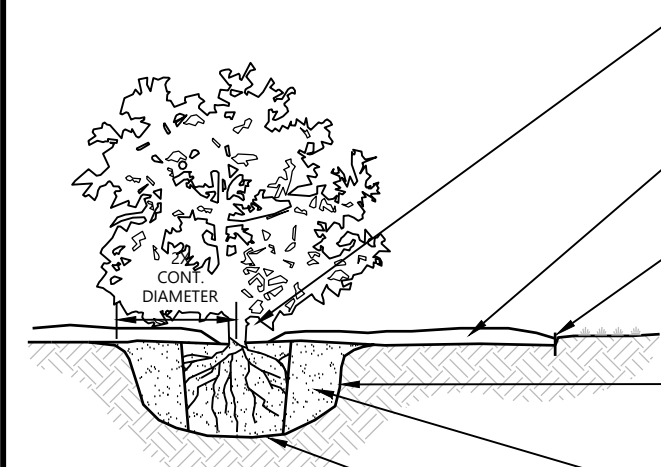
Westwood TEMPORARY SEDIMENTATION BASIN DN-40



- NOTES:
1. BASIN ELEVATIONS AND SIZES TO BE DETERMINED.
 2. SEE PLANS FOR BASIN LOCATIONS.
 3. ALL GRADED SLOPES SHALL BE A MAXIMUM 4H:1V UNLESS SHOWN OTHERWISE.
 4. INSPECT AND MAINTAIN BASIN AND ITS STRUCTURES IN ACCORDANCE WITH THE OPERATIONS AND MAINTENANCE PLAN.
 5. IMMEDIATELY FOLLOWING BASIN CONSTRUCTION, THE SIDE SLOPES OF THE BASIN SHALL BE FULLY STABILIZED. TEMPORARY EROSION AND SEDIMENT CONTROL FEATURES SHALL REMAIN UNTIL PROJECT SITE IS FULLY STABILIZED AND THE BASIN CONVERTED TO PERMANENT CONDITIONS.

Westwood PERMANENT STORMWATER DETENTION BASIN DN-41

PLANTING DETAILS



REMOVE CONTAINER, SCARIFY SIDES, AND SET SOIL MASS ON COMPACTED SOIL BASE MOUND, MATCHING SHRUBS NATURAL GROUNDLINE WITH FINISHED GRADE

MULCH AS SPECIFIED (AND FILTER FABRIC, AS INDICATED)

EDGING AT PLANTING BEDS, AS SPECIFIED, ADJACENT TO LAWN AREAS

SCARIFY SIDES AND BOTTOM OF HOLE. DEPTH PER CONTAINER SOIL DEPTH

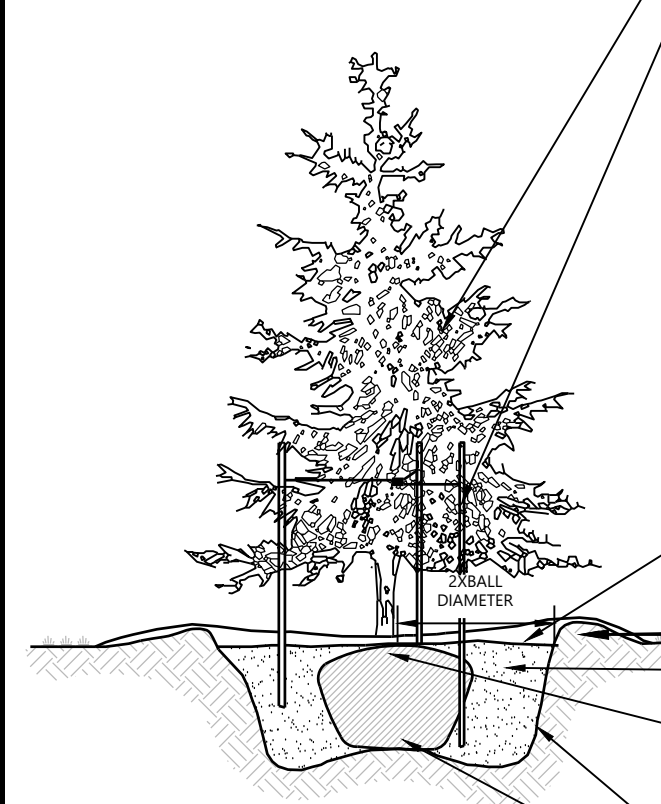
BACKFILL PLANT PIT WITH SPECIFIED PLANTING SOIL OR AS APPROVED

SET CONTAINER ROOT SOIL ON UNDISTURBED SUBSOIL OR MILD COMPACTED SOIL FOR DEPTH TO MATCH FINISH GRADE

Westwood

SHRUB & PERENNIAL CONTAINER PLANTING

LA03



PRUNE OUT MISDIRECTED BRANCHES. PROVIDE ONE CENTRAL LEADER.

GUYING AND STAKING, AS REQUIRED, FOR ONE (1) YEAR ON ALL DECIDUOUS AND CONIFEROUS TREES:

TOP STAKES 5' ABOVE GROUND (MAX.) OR TO FIRST BRANCH. BOTTOM OF STAKE 3' (MIN.) BELOW GROUND. STAKING POSTS TO BE 2"x2" STAINED WOOD OR PAINTED STEEL DELINEATOR POSTS. PLACE 3 POSTS EQUIDISTANT AROUND AND OUTSIDE ROOT BALL. SECURE TREE TO POSTS WITH 16" LONG POLYPROPYLENE OR POLYETHYLENE, 40 MIL., 1.5" WIDE STRAP.

PLACE MULCH, DEPTH AS SPECIFIED, OVER PLANT PITS - DO NOT PILE AGAINST TRUNK.

FORM 3" DEEP WATERING BASIN.

BACKFILL PLANT PIT WITH SPECIFIED BACKFILL SOIL.

REFER TO AMERICAN STANDARD FOR NURSERY STOCK FOR MINIMUM BALL SIZE. ROOT FLARE TO BE PLANTED AT OR NEAR FINISHED GROUNDLINE.

SCARIFY SIDES AND BOTTOM OF HOLE.

SET ROOT BALL ON UNDISTURBED SUBSOIL OR COMPACTED SOIL MOUND MATCHING TREES NATURAL GROUNDLINE WITH FINISHED SITE GRADE.

Westwood

EVERGREEN TREE PLANTING

LA01

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

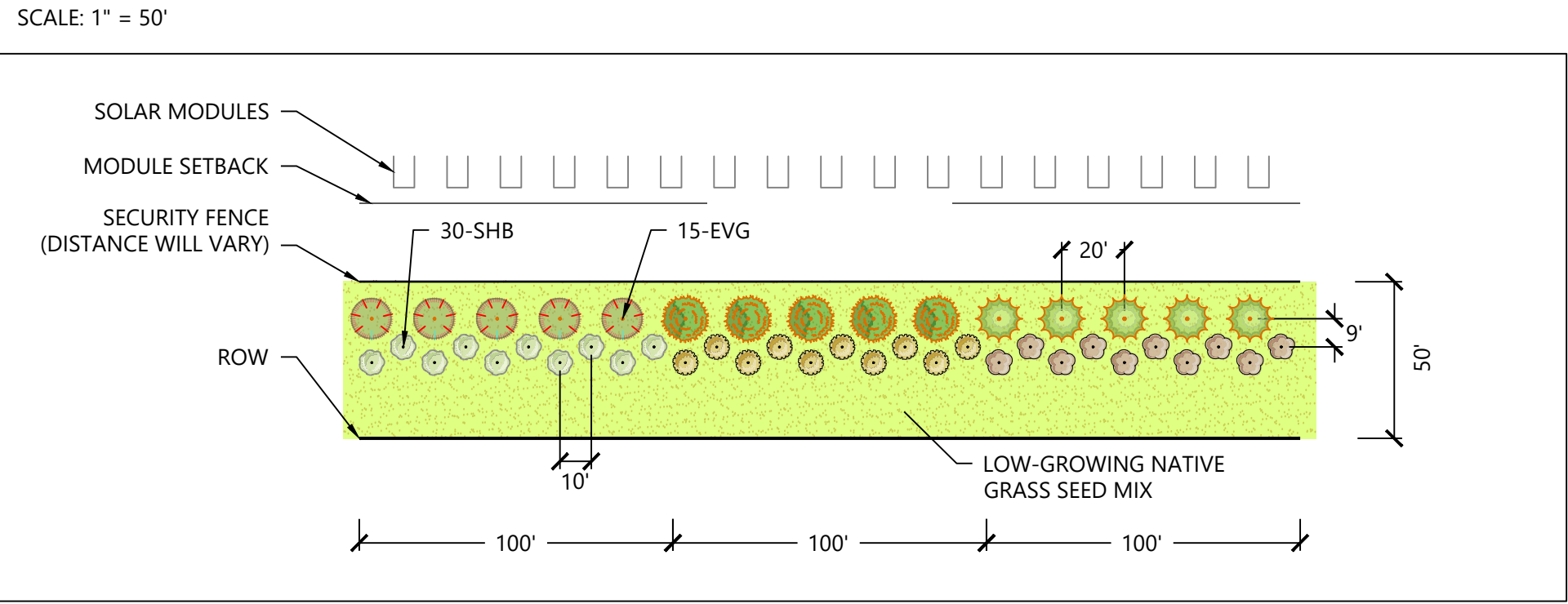


PRELIMINARY BUFFER & SCREENING PLANT SPECIES LIST

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



PREPARED FOR:



8400 Normandale Lake Blvd, Suite 1200
Bloomington, MN 55347

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

Lake Charlotte
Solar Project

Martin County, Minnesota

Landscape Screening
Notes & Details

ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

DATE: 03/28/2025
SHEET: L100
REV: C