

DOCKETED	
Docket Number:	23-OPT-02
Project Title:	Darden Clean Energy Project
TN #:	252920
Document Title:	Appendix F Project Design Layout and Elevations_Darden Clean Energy
Description:	Includes Project design, layout, site plans, elevations, and notes.
Filer:	Megan Knight
Organization:	Rincon Consultants, Inc.
Submitter Role:	Applicant Consultant
Submission Date:	11/3/2023 2:45:46 PM
Docketed Date:	11/3/2023

Appendix F

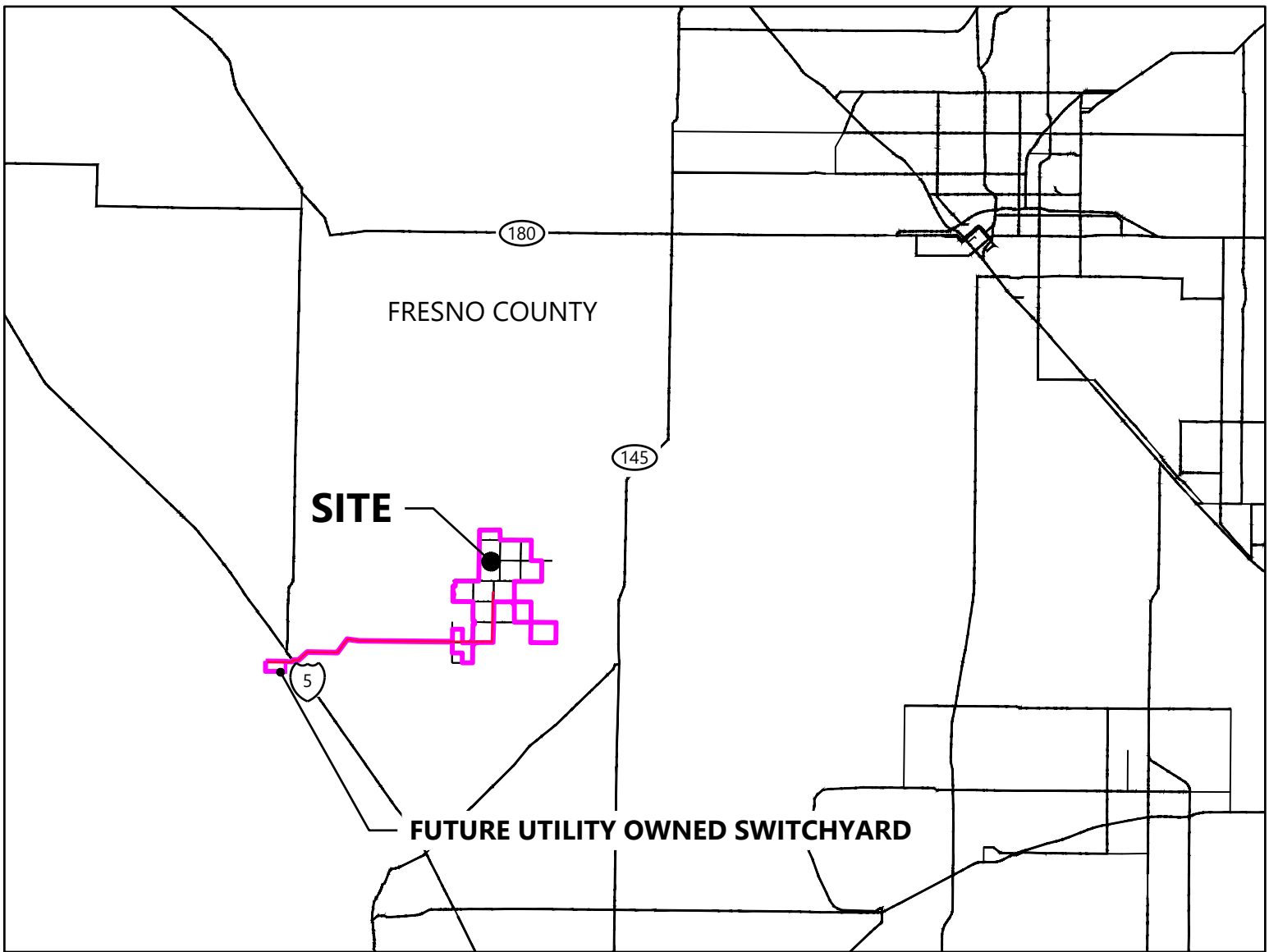
Project Design Layout and Elevations

Darden Clean Energy Project

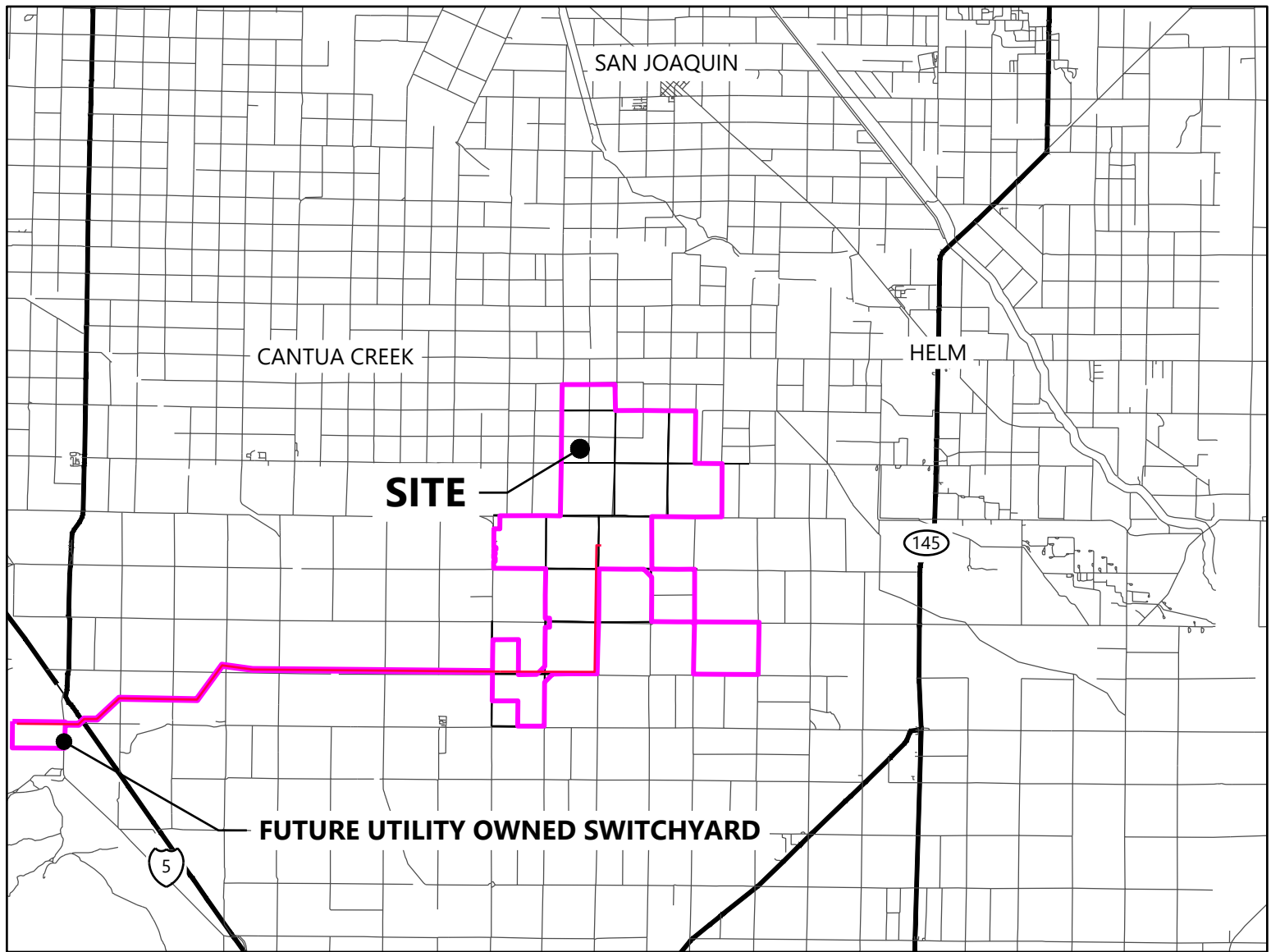
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Civil Permitting Plans

REGIONAL MAP



VICINITY MAP



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Cover

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Sheet Index

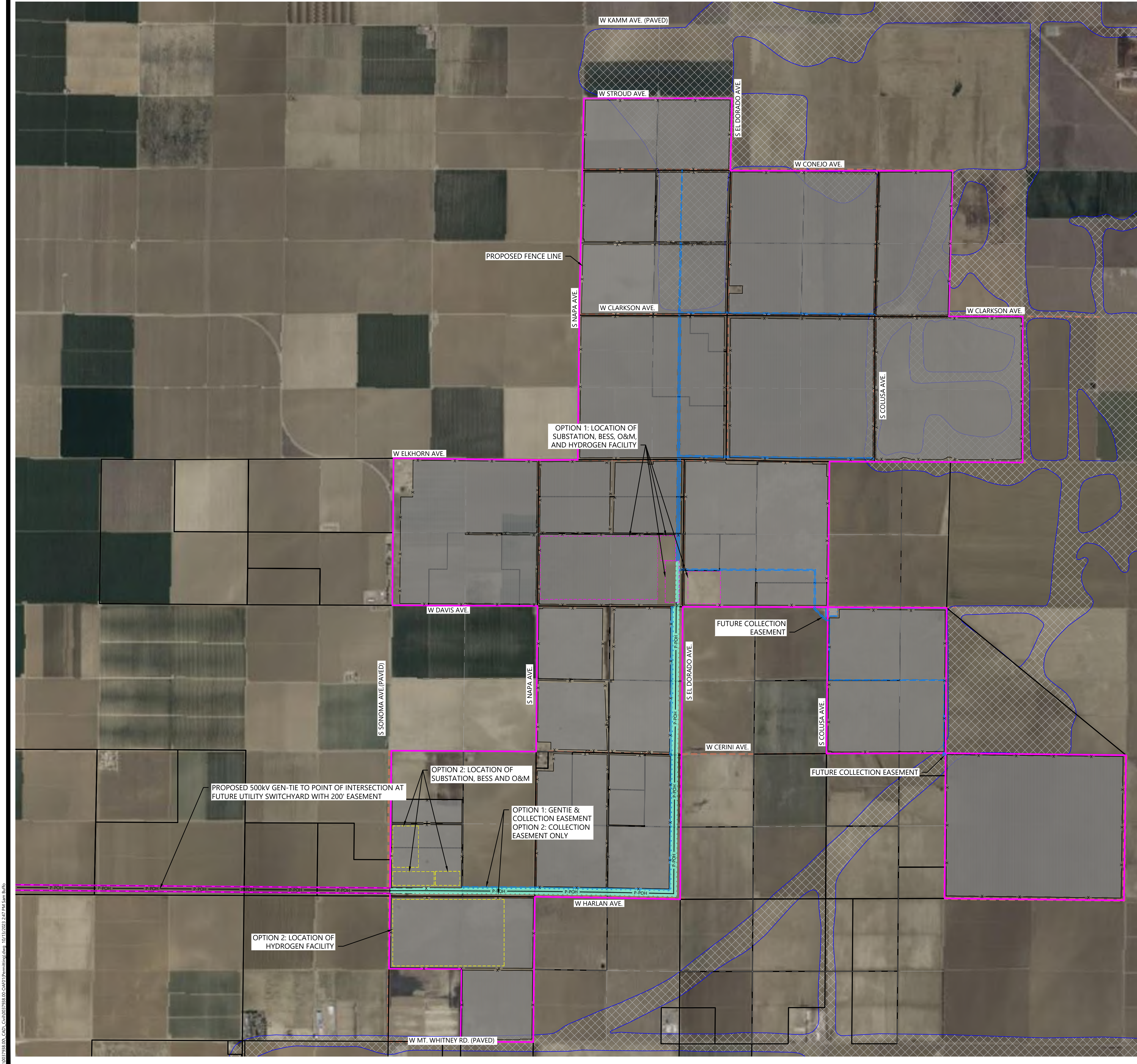
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Index of Sheets

SHEET NUMBER	SHEET TITLE
C.000	Cover
C.001	Index
C.100	Overall Site Plan
C.101	Overall Site Plan
C.102	Alternate Hydrogen Facility and POI Location
C.103	Zoning Plan
C.104	Zoning Plan
C.105	Zoning Plan
C.200	Site Plan-1
C.201	Site Plan-2
C.202	Site Plan-3
C.203	Site Plan-4
C.204	Site Plan-5
C.205	Site Plan-6
C.206	Site Plan-7
C.207	Site Plan-8
C.208	Site Plan-9
C.209	Site Plan-10
C.210	Site Plan-11
C.211	Site Plan-12
C.212	Site Plan-13
C.213	Site Plan-14
C.214	Site Plan-15
C.215	Site Plan-16
C.216	Site Plan-17
C.400	Construction Details
C.401	Construction Details
C.402	Construction Details
E.100.1	34.5 kV - 500 kV Substation Plan - Straight Bus version
E.100.2	34.5 kV - 500 kV Substation Plan - Ring Bus Version
E.101	Substation Elevations
E.102	Substation Control Building Elevations
E.200	500 kV Gentie Pole Details
E.300	500 kV Switchyard Plan
E.301	500 kV Switchyard Elevations

SEE SHEET C.101



- LEGEND:**
- PROJECT BOUNDARY (FROM ALTA SURVEY)
 - PROJECT PARCEL LINES (FROM ALTA SURVEY)
 - SECTION LINES
 - EX. ROAD
 - EXISTING OVERHEAD POWER
 - PROPOSED SOLAR ARRAY
 - PROPOSED GEN-TIE LINE
 - PROPOSED FENCE
 - PROPOSED TEMPORARY PARKING & LAYDOWN YARD
 - PROPOSED COLLECTION CORRIDOR FOR OPTION 1 AND OPTION 2
 - PROPOSED ADDITIONAL COLLECTION CORRIDOR FOR OPTION 2
 - FEMA FLOOD ZONE A

- NOTES:**
- FENCE WILL BE WILDLIFE FENCING WITH STANDARD DESIGN RAISED (4-6 INCHES) FROM GROUND SURFACE WITH SMOOTH WIRE ON BOTTOM.
 - UP TO TWO (2) O&M BUILDINGS PROPOSED WITH APPROXIMATE FOOTPRINT OF 80' X 65' EACH.
 - BESS AREA PROPOSED TO BE AN AREA OF 32 ACRES.
 - SUBSTATION PROPOSED TO BE 500' X 1,500' FOR AN AREA OF 17.2 ACRES.
 - TWO LAYDOWN YARDS PROPOSED TO BE 20 ACRES EACH FOR A TOTAL AREA OF 40 ACRES.
 - TOTAL LAND AREA: 9,116 ACRES (EXCLUDING GEN-TIE EASEMENTS, FUTURE UTILITY SWITCHYARD PARCEL, AND ALTERNATE HYDROGEN FACILITY PARCEL)
 - TOTAL BUILDABLE AREA: 8,051 ACRES.
 - INNER TURNING RADIUS: 54'
 - OUTER TURNING RADIUS: 70'
 - EACH LAND SECTION WILL HAVE AT LEAST ONE (1) GATED VEHICULAR ENTRANCE POINT.
 - 50' MINIMUM STRUCTURE/MODULE SETBACK (EXCLUDING FENCES) FROM ALL EXTERNAL PROJECT PROPERTY LINES.

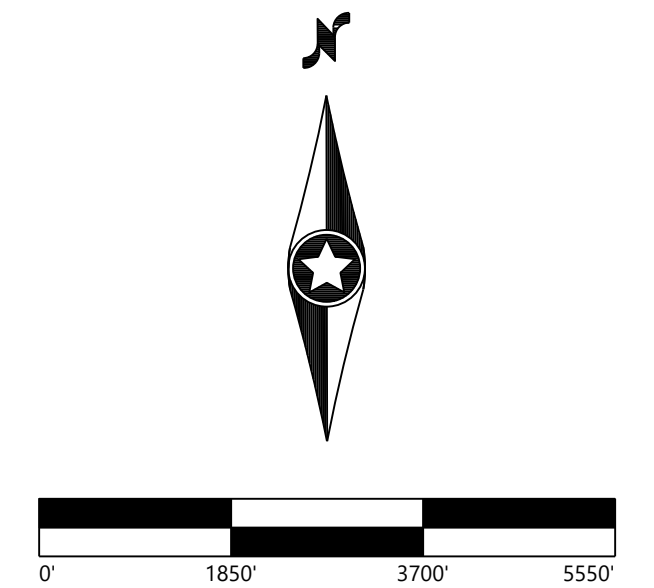
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Overall Site Plan

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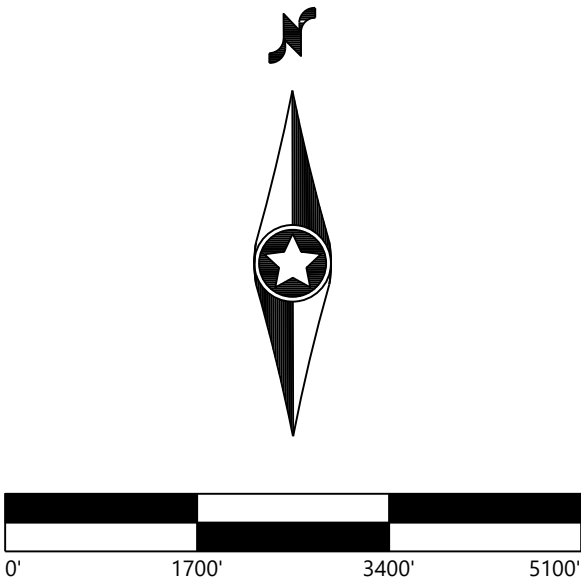
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Overall Site Plan

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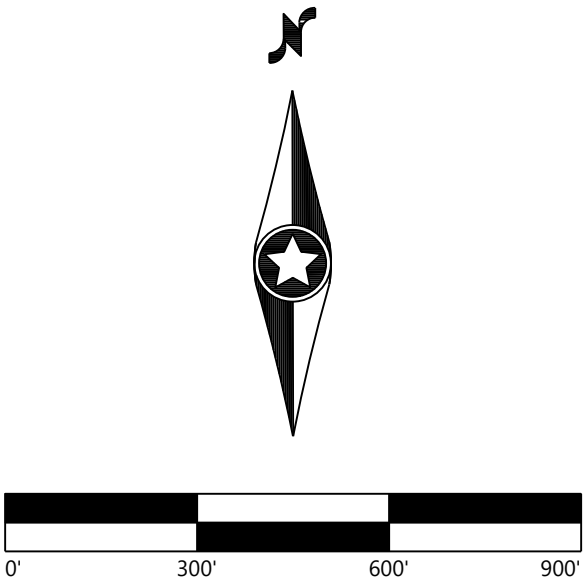
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**Alternate Hydrogen
Facility and POI
Location**

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LEGEND:

- PROJECT BOUNDARY
- PROPERTY LINES
- SECTION LINES
- SECTION QUARTER LINES

NOTES:
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2	04007029S	AE20	64	05003025ST	AE20
3	04007030S	AE20	65	05003010ST	AE20
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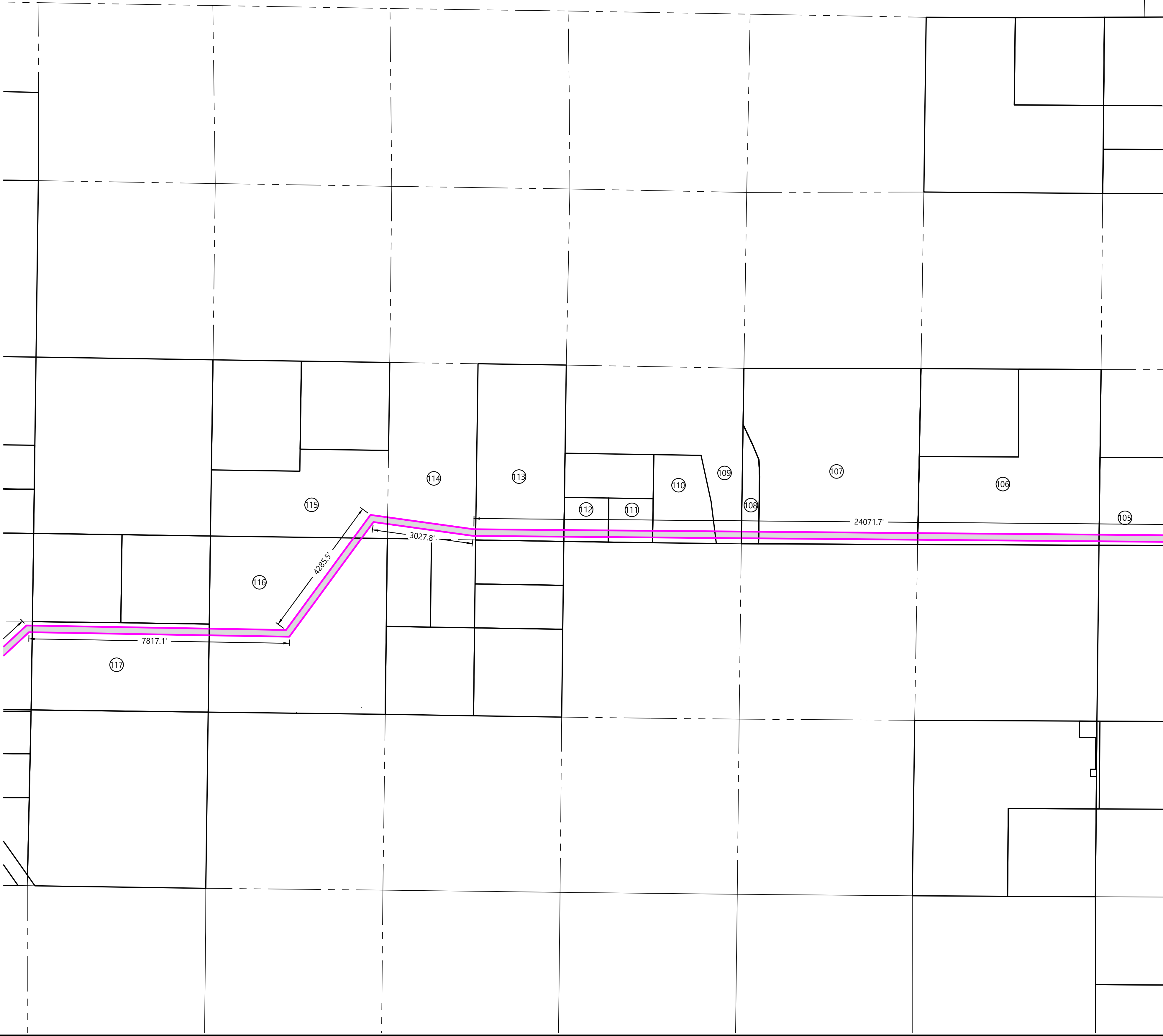
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SEE SHEET C. 105



SEE SHEET C. 104

LEGEND:

- PROJECT BOUNDARY
- PROPERTY LINES
- SECTION LINES
- SECTION QUARTER LINES

NOTES:
1. PROPERTY DIMENSIONS ARE DEVELOPED FROM
DESKTOP GIS DATA AND ARE NOT SURVEY GRADE.

Parcel Identifier	APN	Zoning	Parcel Identifier	APN	Zoning
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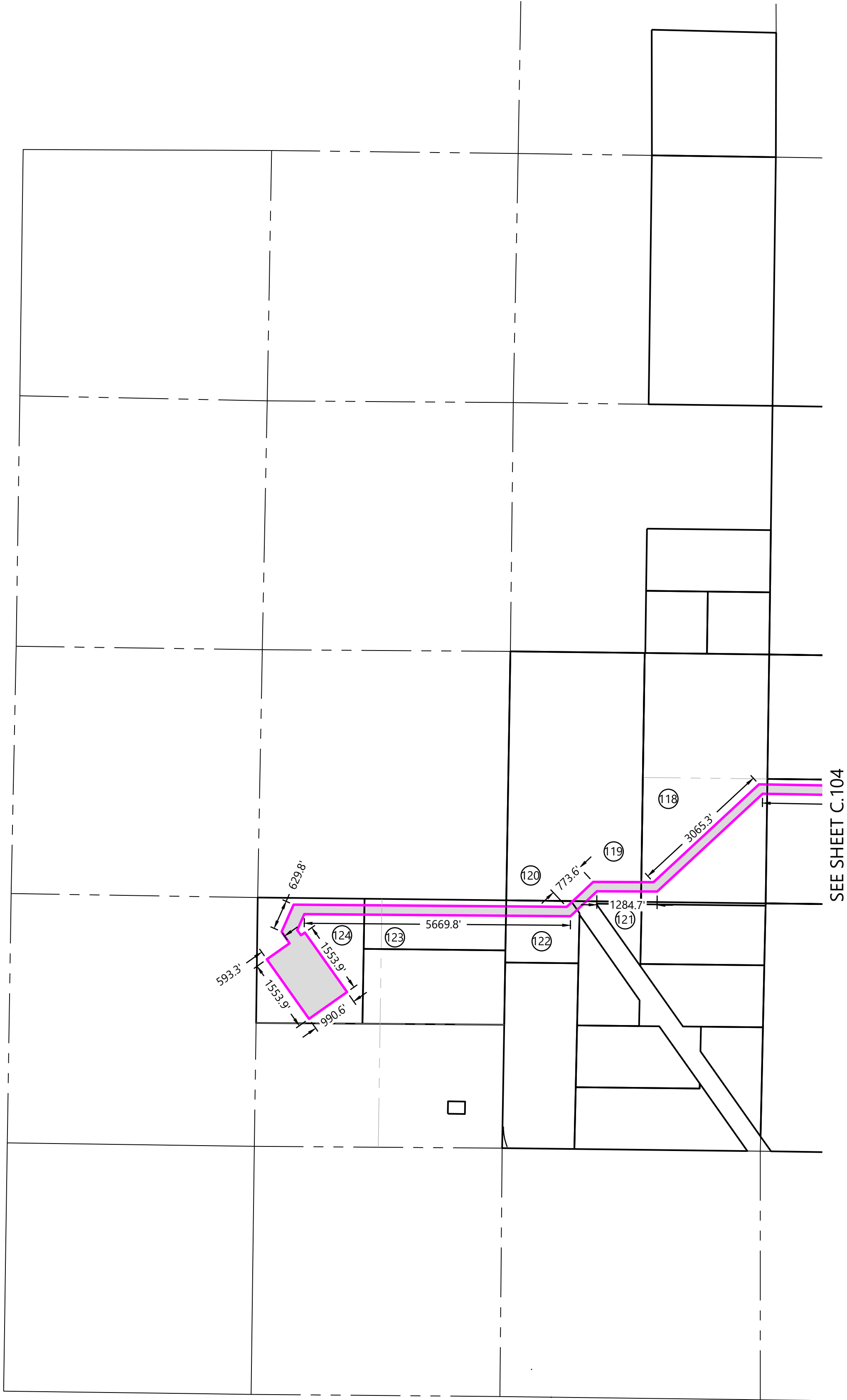
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AND AFFILIATES

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Fresno County, CA

DATE:

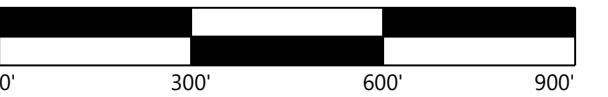
SHEET:

PREPARED FOR:

IP DARDEN I, LLC
AND AFFILIATES

REVISIONS:

DATE	ISSUED FOR	BY	CHK	APR
2023-10-16	CEC Application			



IP Darden

Fresno County, CA







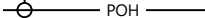




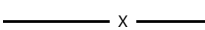
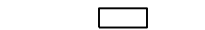

Site Plan-1

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DATE: 10/16/2023

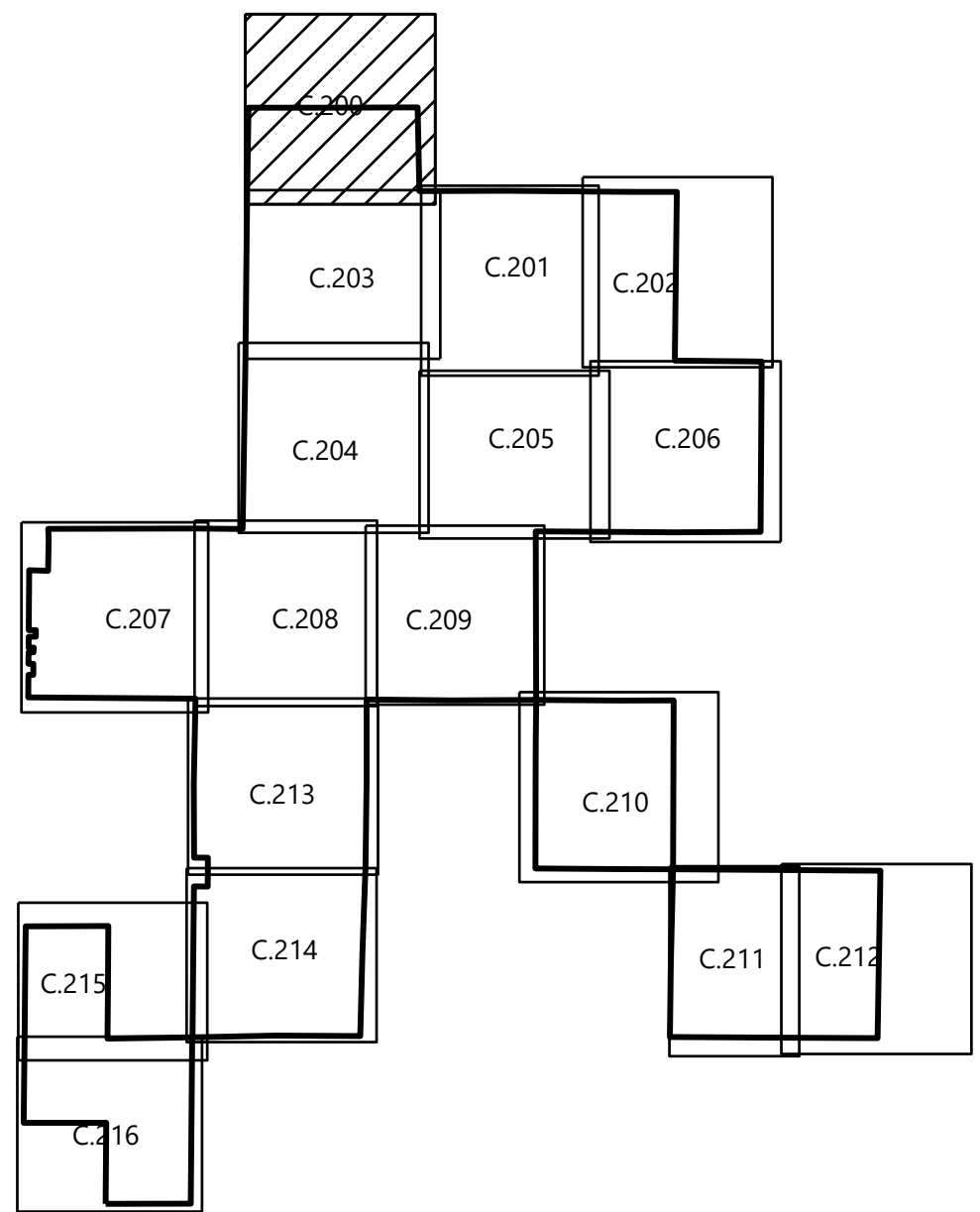
SHEET: C.200 0

LEGEND:

-
-  PROJECT BOUNDARY (FROM ALTA SURVEY)
 PROPOSED PARCEL LINE (FROM ALTA SURVEY)
 EXISTING ROADS
 EASEMENT LINES
 EXISTING OVERHEAD POWER
 EXISTING INDEX CONTOUR (5' CONTOUR)
 EXISTING INTERVAL CONTOUR (1' CONTOUR)
 PROPOSED SOLAR ARRAY
 PROPOSED SECURITY FENCE
 PROPOSED ELECTRICAL EQUIPMENT
 PROPOSED LAYDOWN YARD
 FEMA FLOOD ZONE A
 PROPOSED COLLECTION CORRIDOR FOR OPTION 1 AND OPTION 2
 PROPOSED ADDITIONAL COLLECTION CORRIDOR FOR OPTION 2

NOTES:

1. CONTRACTOR SHALL INSTALL ALL PERIMETER EROSION AND SEDIMENT CONTROL DEVICES PRIOR TO UPSLOPE DISTURBANCE ACTIVITIES.
2. CONTRACTOR TO USE A PHASED APPROACH DURING CONSTRUCTION ACTIVITIES TO PREVENT AND MINIMIZE EROSION. TRAP BASINS MAY BE REMOVED OR CONVERTED TO PERMANENT CONDITIONS.
3. SITE PREPARATION INCLUDES BUT IS NOT LIMITED TO CLEARING/GRUBBING, MINOR GRADING, COMPACTION, MOWING OF VEGETATION, AND RESTABILIZATION OF EXISTING EROSION AREAS.
4. MINOR SURFACE SMOOTHING MAY OCCUR FOR SOLAR PANEL INSTALLATION.
5. ALL GRADING SHALL INCLUDE SURFACE ROUGHENING.
6. ACCESS ROADS WILL BE CONSTRUCTED TO MATCH THE SURROUNDING EXISTING TERRAIN ELEVATIONS TO ALLOW THE CONTINUATION OF DRAINAGE PATTERNS.
7. TEMPORARY BASINS AND SEDIMENT TRAP LOCATIONS TO BE DETERMINED WITH FURTHER DESIGN.
8. OVERALL DRAINAGE PATTERNS WILL NOT BE ALTERED WITH SOLAR DEVELOPMENT.
9. PROJECT DETAILS ARE SUBJECT TO CHANGE WITH FINAL DESIGN.
10. EXISTING TOPOGRAPHY SHOWN IS 1' FOOT DATA OBTAINED FROM FIELD SURVEY DATED 2023-05-29



SEE SHEET C.201

SEE SHEET C.202

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SEE SHEET C.200

SEE SHEET C.203



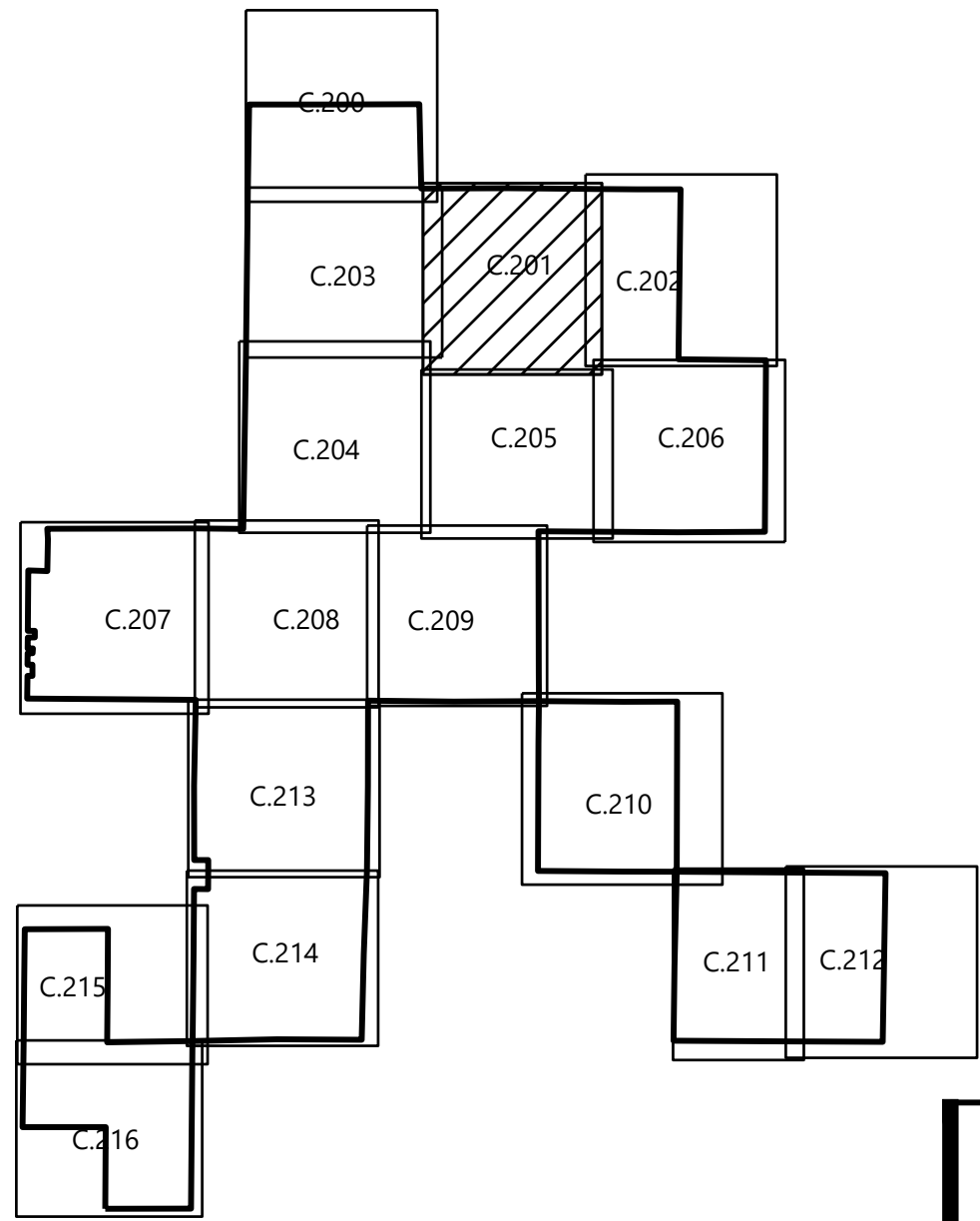
SEE SHEET C.205

LEGEND:

- PROJECT BOUNDARY (FROM ALTA SURVEY)
- PROJECT PARCEL LINE (FROM ALTA SURVEY)
- EXISTING ROADS
- EASEMENT LINES
- EXISTING OVERHEAD POWER
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Westwood

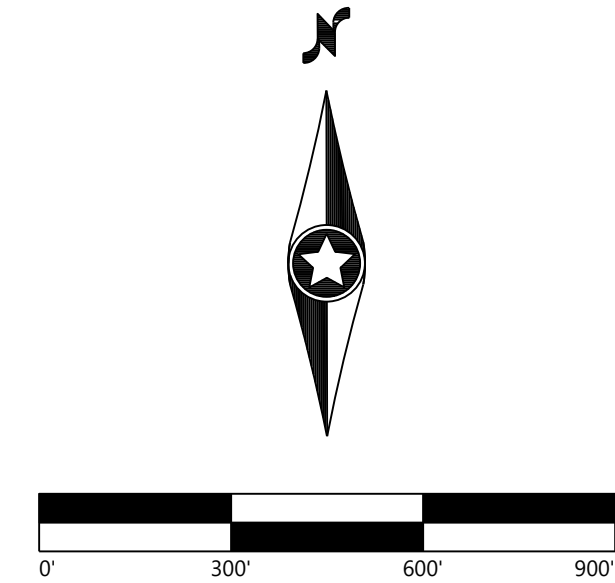
Phone: (952) 937-5150 12701 Whitewater Drive, Suite #300
Fax: (952) 937-5822 Minnetonka, MN 55343
TollFree: (888) 937-5150 westwoodps.com
Westwood Professional Services, Inc.

PREPARED FOR:

**IP DARDEN I, LLC
AND AFFILIATES**

REVISIONS:

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Fresno County, CA

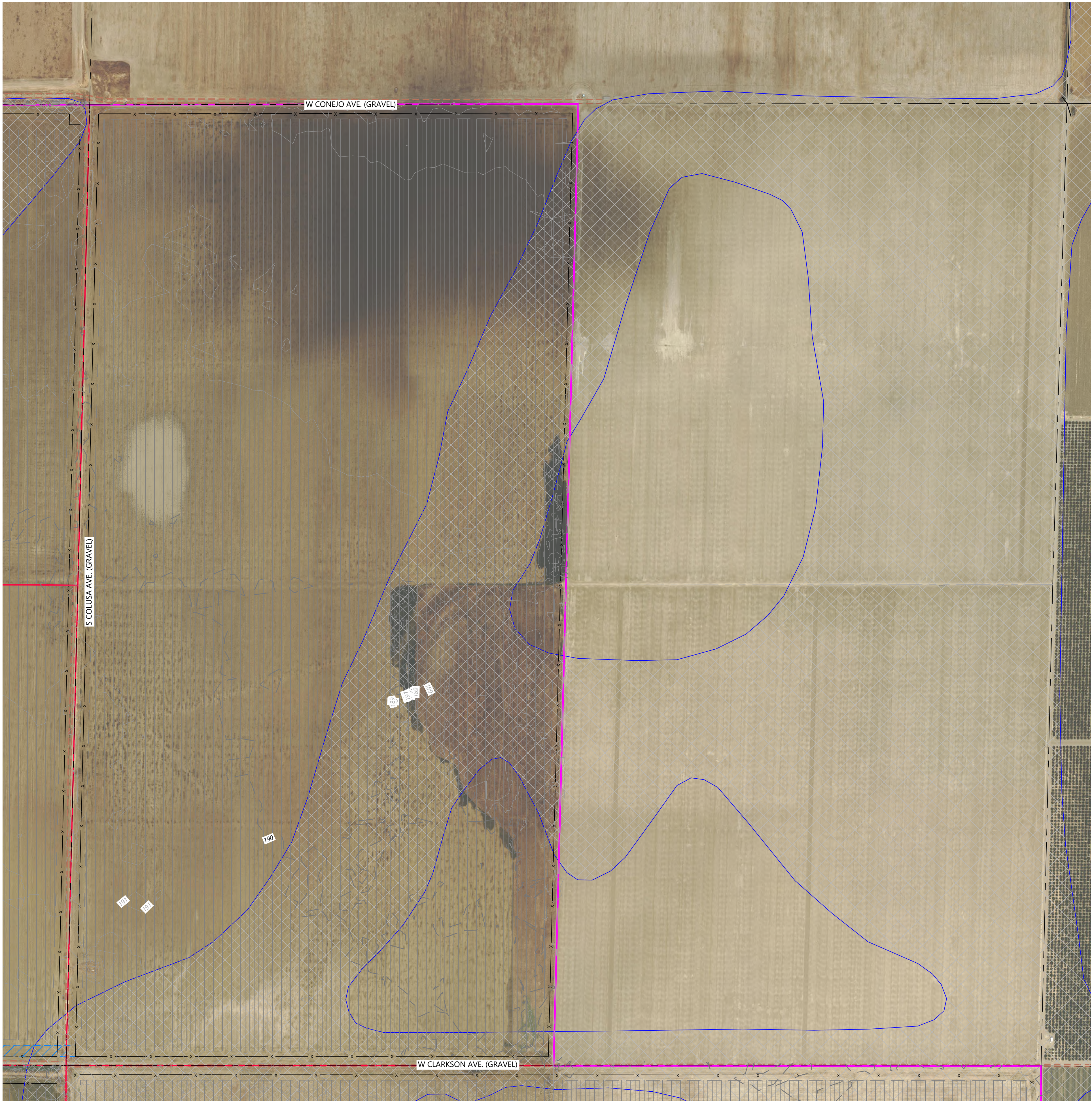
Site Plan-2

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DATE:	10/16/2023	REV:
SHEET:	C.201	0

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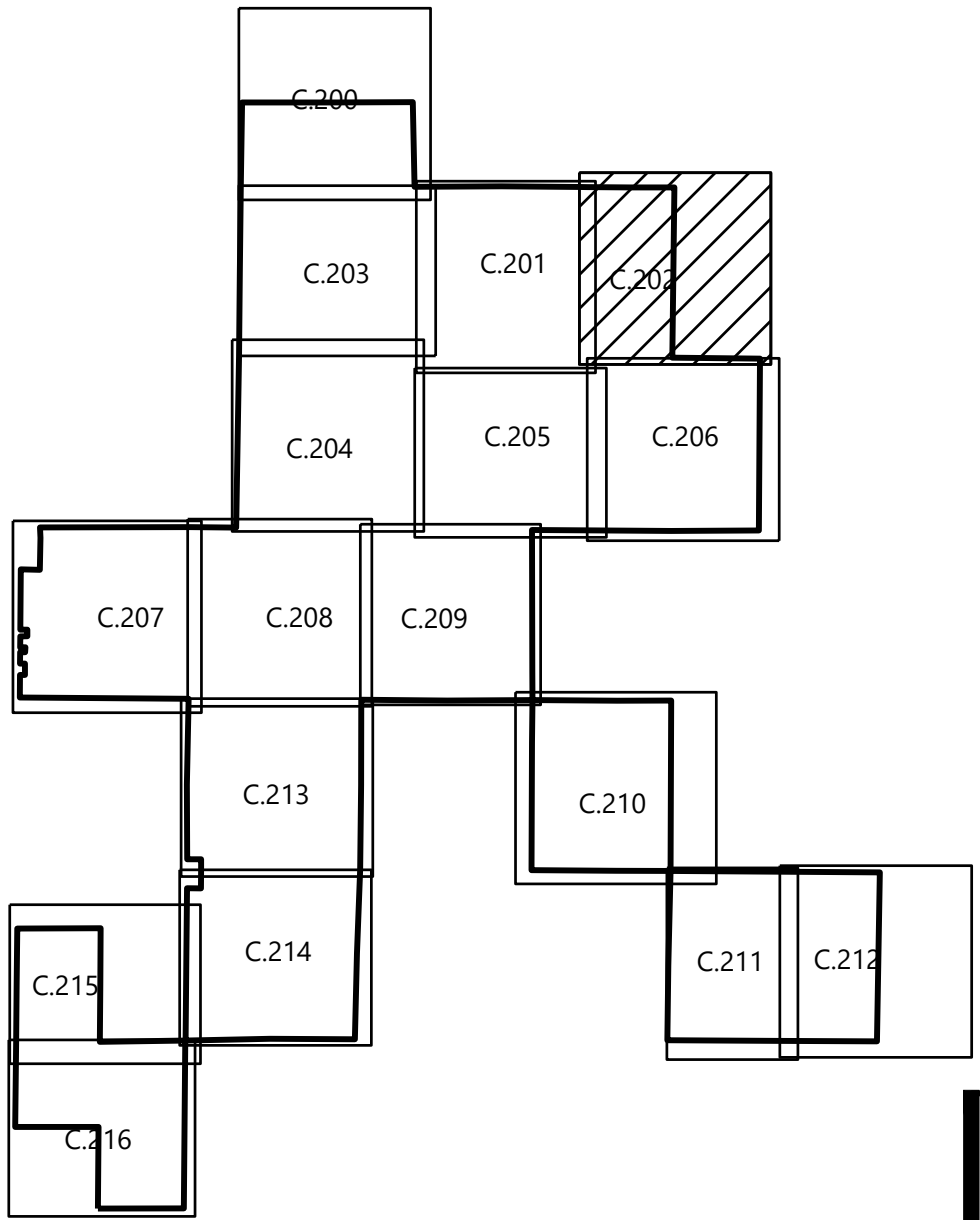
SEE SHEET C.206

LEGEND:

- PROJECT BOUNDARY (FROM ALTA SURVEY)
- PROJECT PARCEL LINE (FROM ALTA SURVEY)
- EXISTING ROADS
- EASEMENT LINES
- EXISTING OVERHEAD POWER
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Westwood

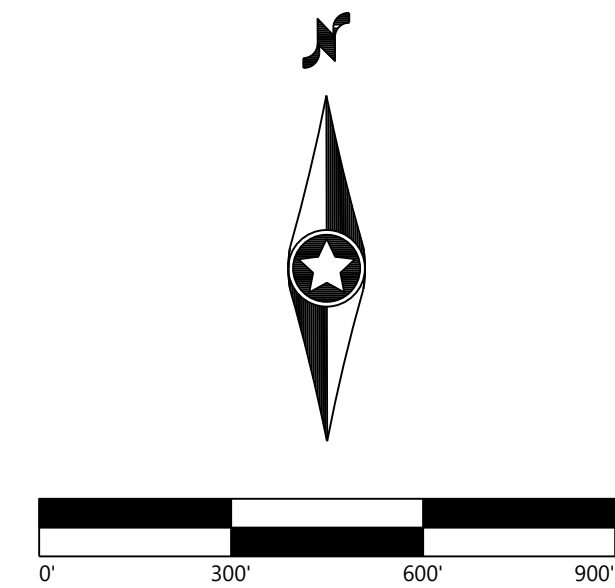
Phone (952) 937-5150 12701 Whitewater Drive, Suite #300
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TollFree (888) 937-5150 westwoodps.com
Westwood Professional Services, Inc.

PREPARED FOR:

**IP DARDEN I, LLC
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IP Darden
Fresno County, CA

Site Plan-3

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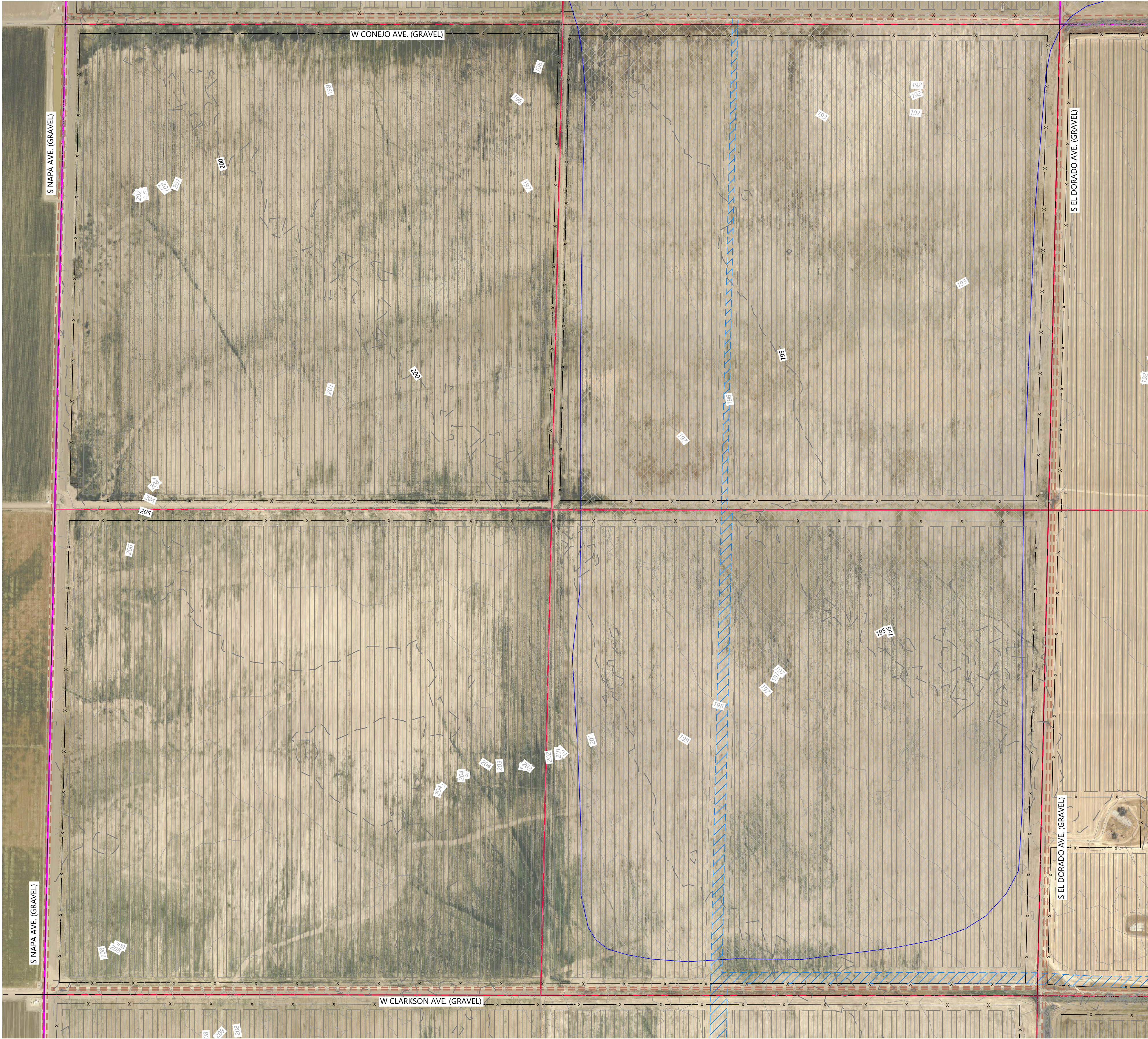
SHEET: C.202

REV:

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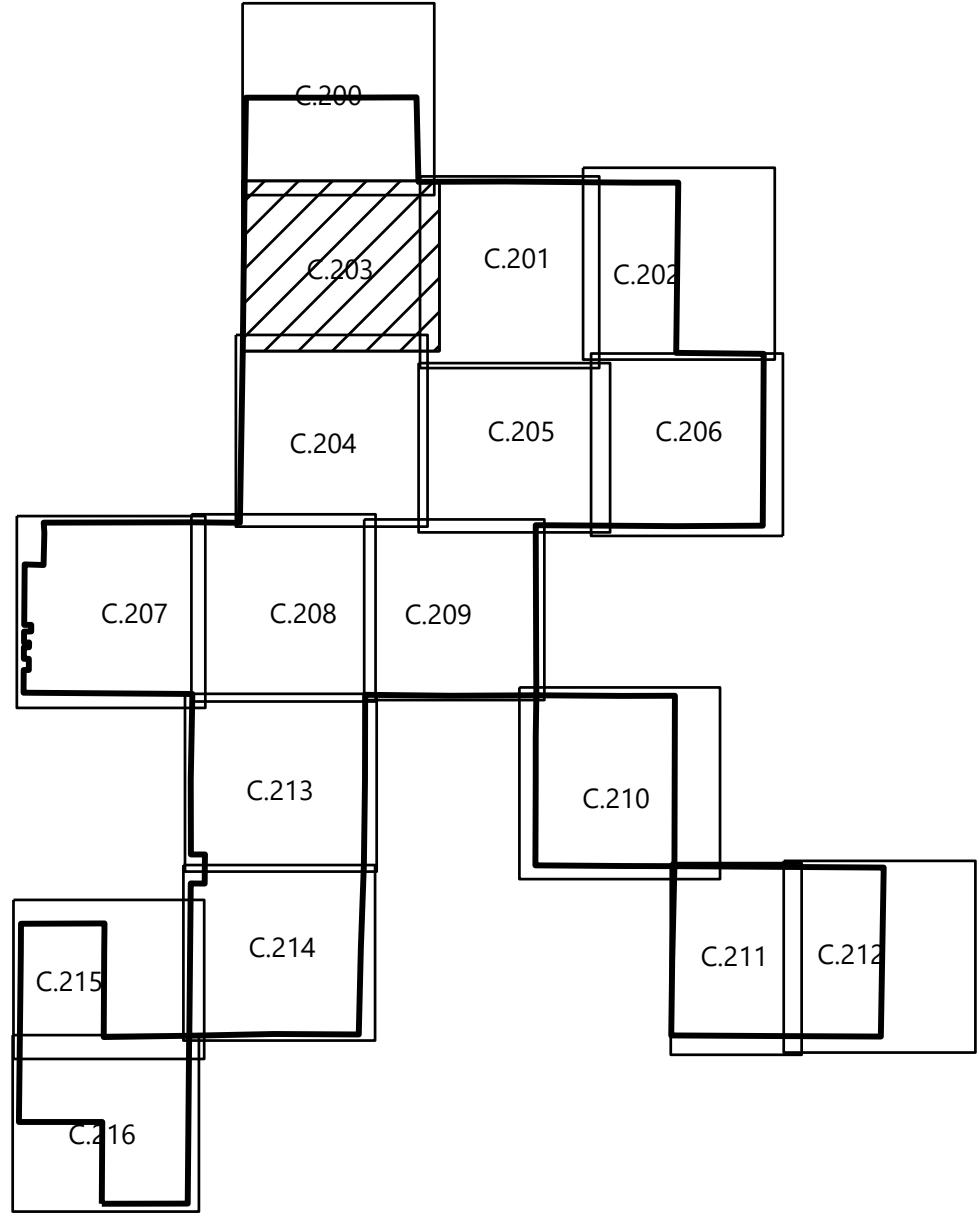
SEE SHEET C.200



SEE SHEET C.204

- LEGEND:**
- PROJECT BOUNDARY (FROM ALTA SURVEY)
 - PROJECT PARCEL LINE (FROM ALTA SURVEY)
 - EXISTING ROADS
 - EASEMENT LINES
 - EXISTING OVERHEAD POWER
 - EXISTING INDEX CONTOUR (5' CONTOUR)
 - EXISTING INTERVAL CONTOUR (1' CONTOUR)
 - PROPOSED SOLAR ARRAY
 - PROPOSED SECURITY FENCE
 - PROPOSED ELECTRICAL EQUIPMENT
 - PROPOSED LAYDOWN YARD
 - FEMA FLOOD ZONE A
 - PROPOSED COLLECTION CORRIDOR FOR OPTION 1 AND OPTION 2
 - PROPOSED ADDITIONAL COLLECTION CORRIDOR FOR OPTION 2

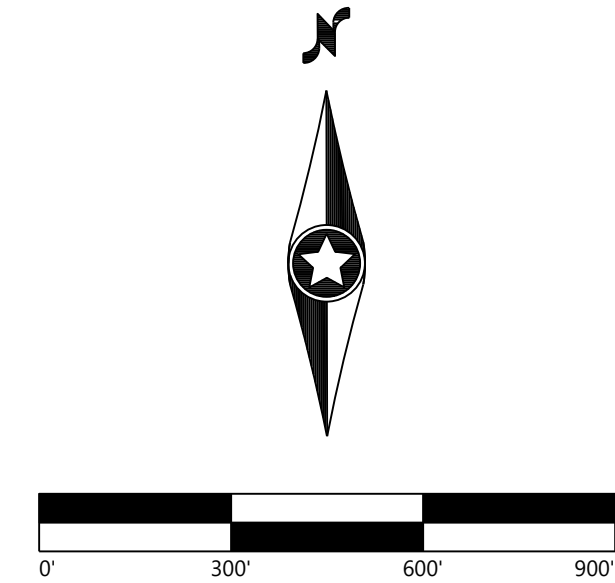
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 - EXISTING TOPOGRAPHY SHOWN IS 1 FOOT DATA OBTAINED FROM FIELD SURVEY DATED 2023-05-29



PREPARED FOR:

**IP DARDEN I, LLC
AND AFFILIATES**

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Fresno County, CA

Site Plan-4

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DATE: 10/16/2023
SHEET: C.203
REV: 0

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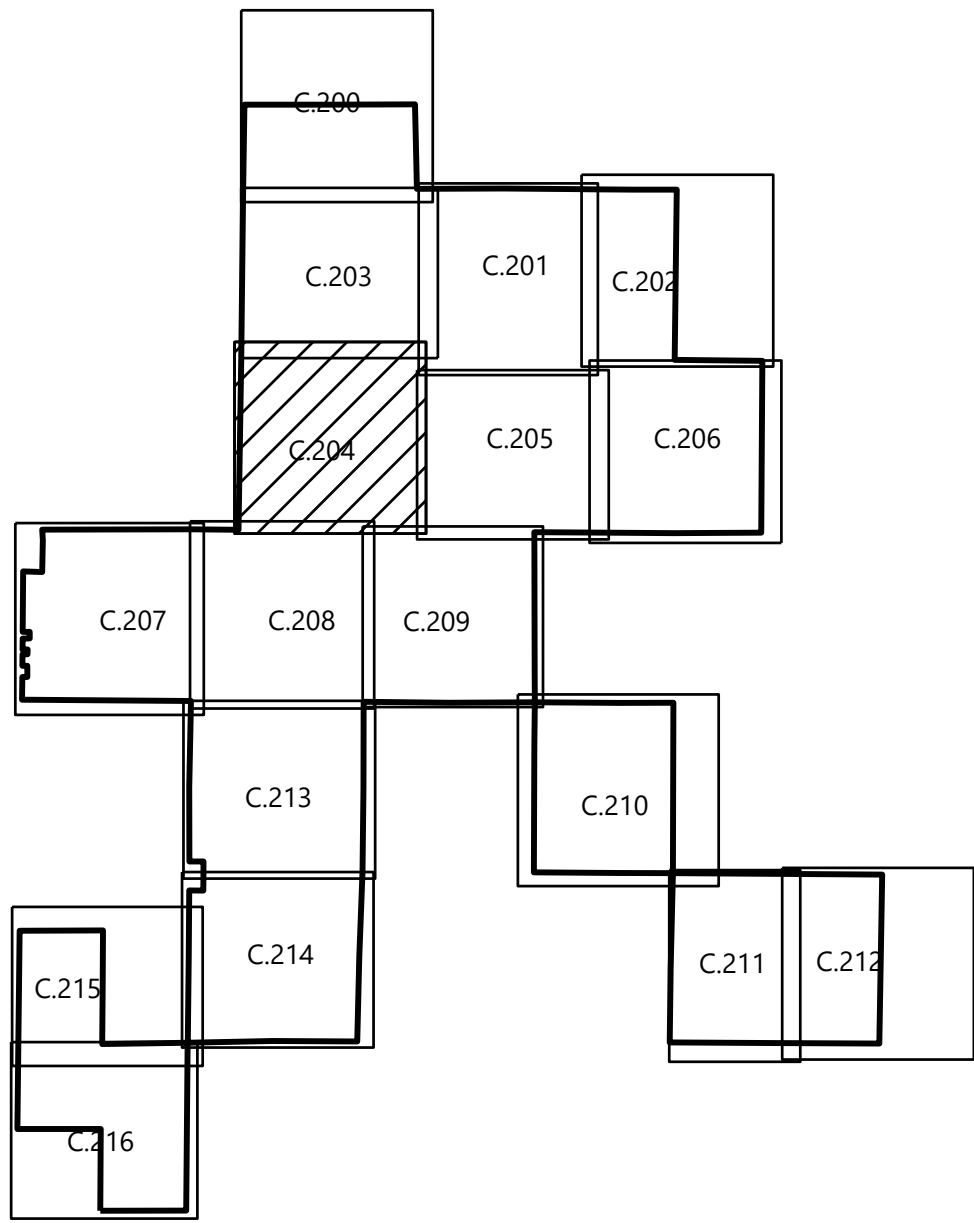
LEGEND:

- PROJECT BOUNDARY (FROM ALTA SURVEY)
- PROJECT PARCEL LINE (FROM ALTA SURVEY)
- EXISTING ROADS
- EASEMENT LINES
- EXISTING OVERHEAD POWER
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SEE SHEET C.205



Westwood

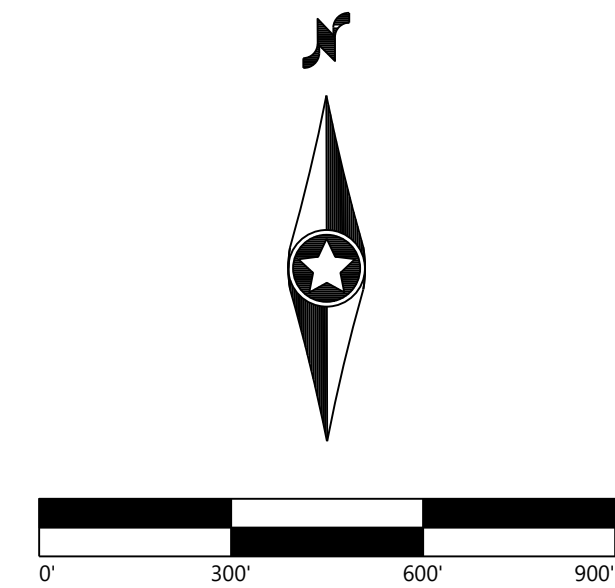
Phone: (952) 937-5150 12701 Whitewater Drive, Suite #300
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Westwood Professional Services, Inc.

PREPARED FOR:

**IP DARDEN I, LLC
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IP Darden
Fresno County, CA

Site Plan-5

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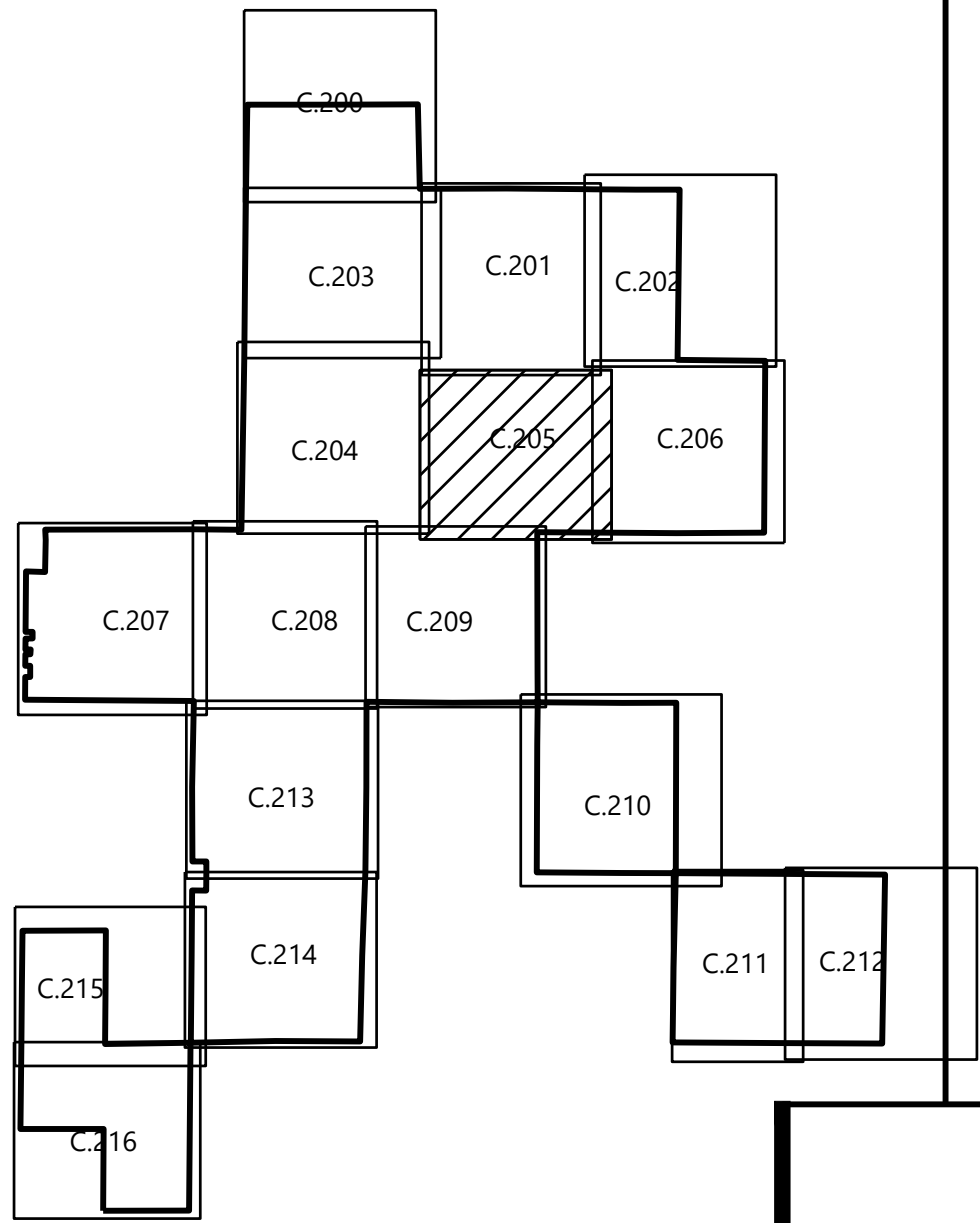
DATE:	10/16/2023	REV:
SHEET:	C.204	0

SEE SHEET C.201



- LEGEND:**
- PROJECT BOUNDARY (FROM ALTA SURVEY)
 - PROJECT PARCEL LINE (FROM ALTA SURVEY)
 - EXISTING ROADS
 - EASEMENT LINES
 - EXISTING OVERHEAD POWER
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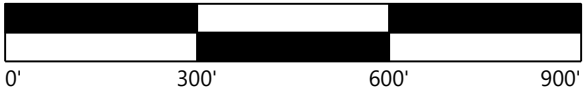
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PREPARED FOR:

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Fresno County, CA

Site Plan-6

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REV: 0

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SEE SHEET C.206

SEE SHEET C.209

SEE SHEET C.202

SEE SHEET C.205

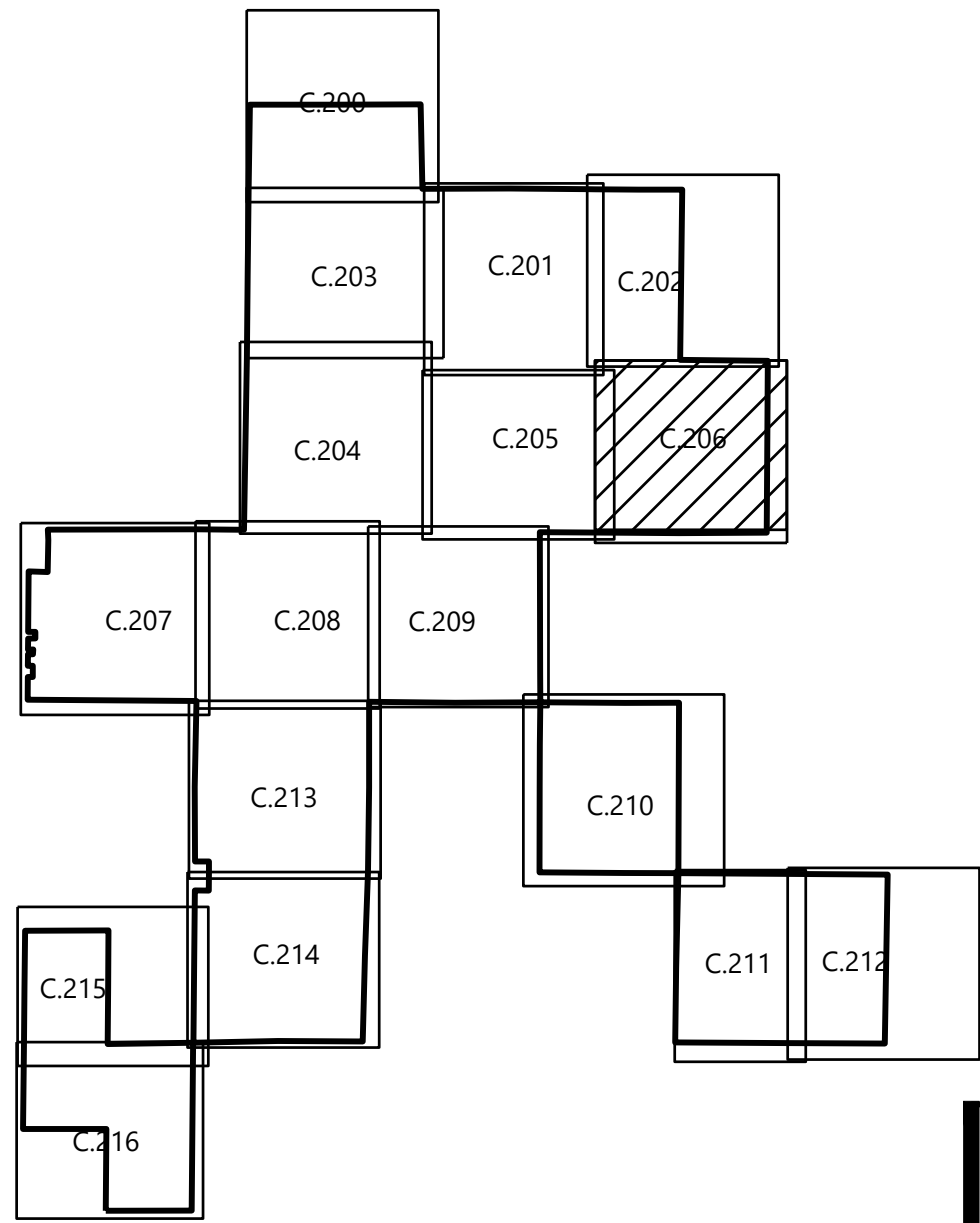


LEGEND:

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- EXISTING ROADS
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Westwood

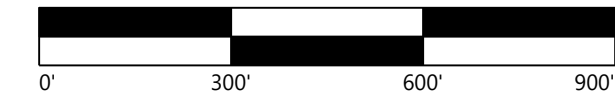
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Fresno County, CA

Site Plan-7

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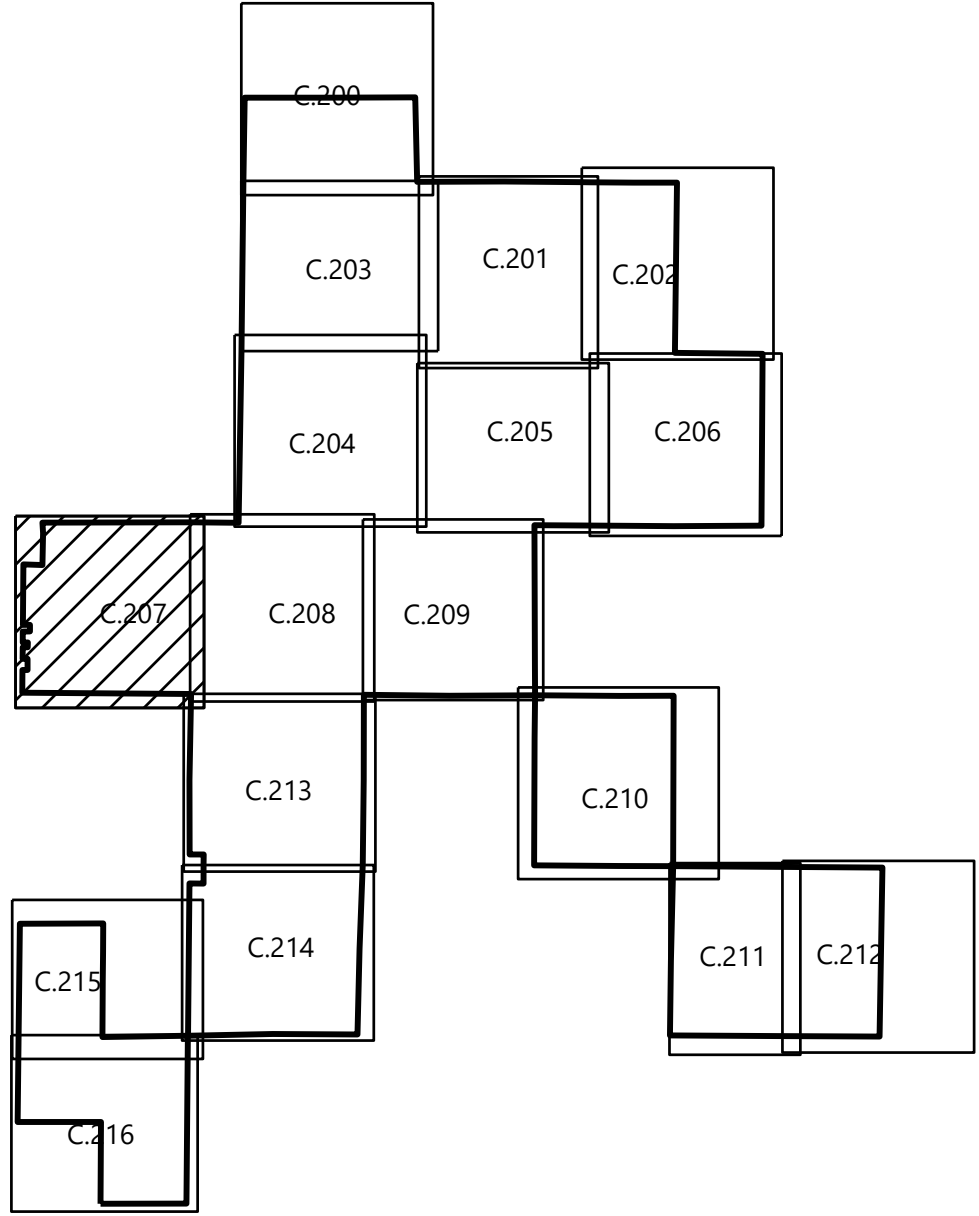
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SEE SHEET C.208

- LEGEND:**
- PROJECT BOUNDARY (FROM ALTA SURVEY)
 - PROJECT PARCEL LINE (FROM ALTA SURVEY)
 - EXISTING ROADS
 - EASEMENT LINES
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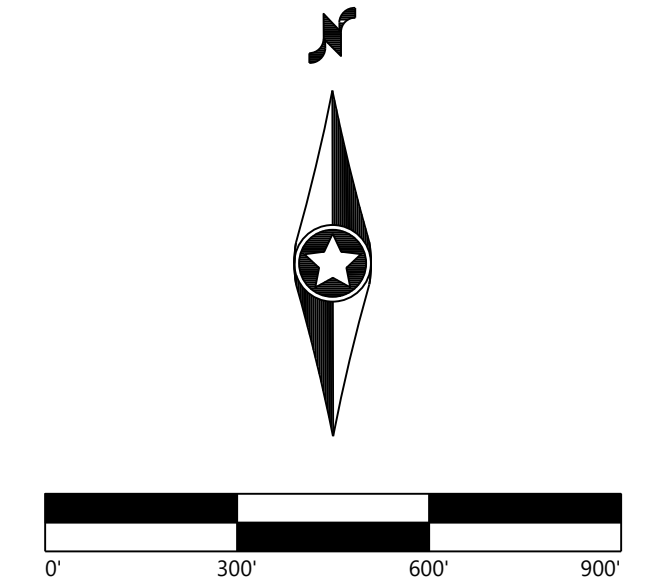
- NOTES:**
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Site Plan-8

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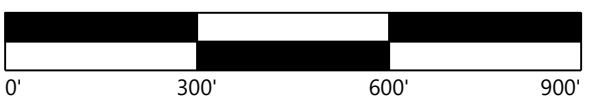
DATE: 10/16/2023
SHEET: C.207
REV: 0

PREPARED FOR:

IP DARDEN I, LLC
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REVISIONS:

DATE	ISSUED FOR	BY	CHK	APR
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IP Darden

Fresno County, CA

Site Plan-9

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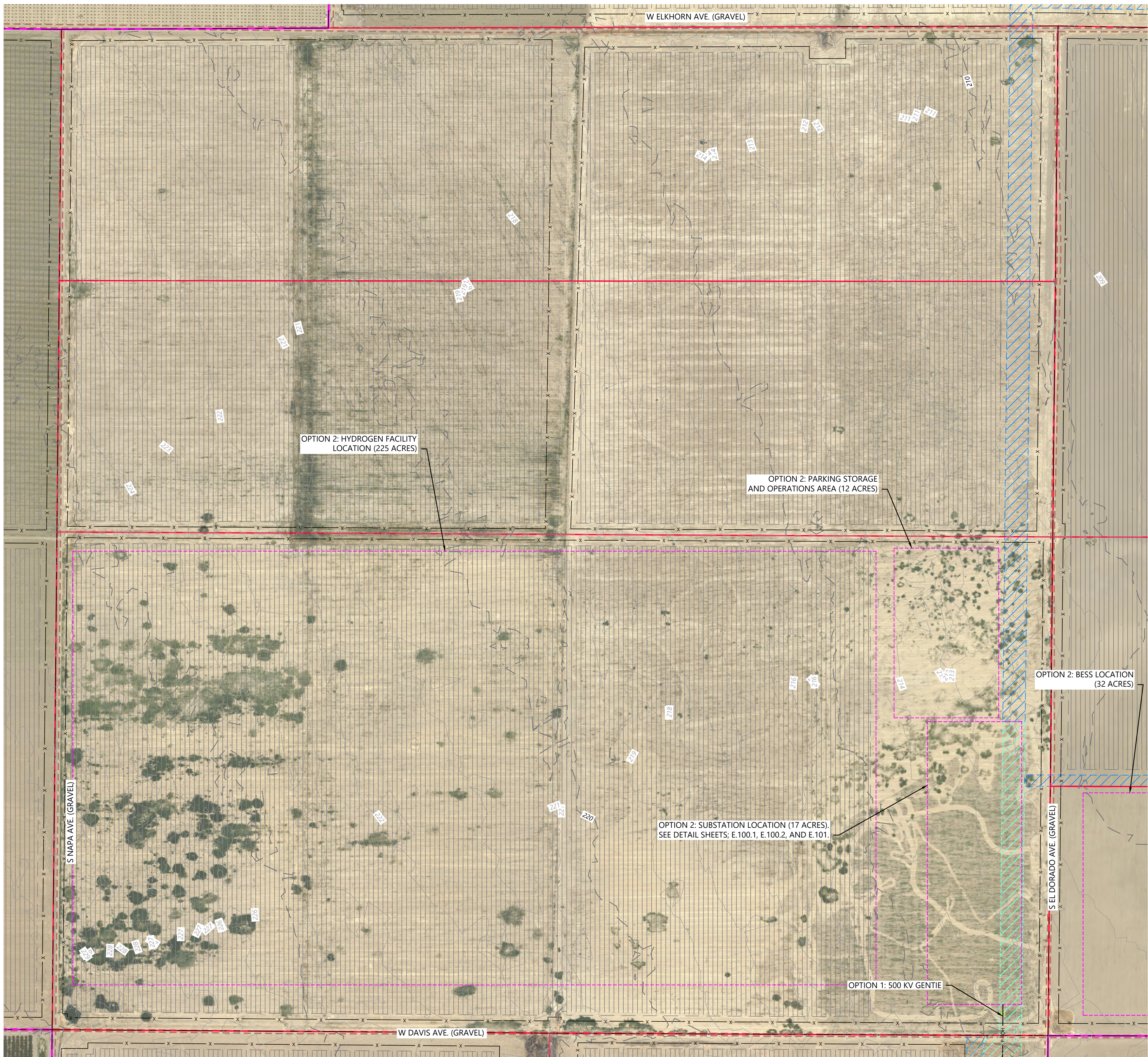
DATE: 10/16/2023

SHEET: C.208 0

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SEE SHEET C.204



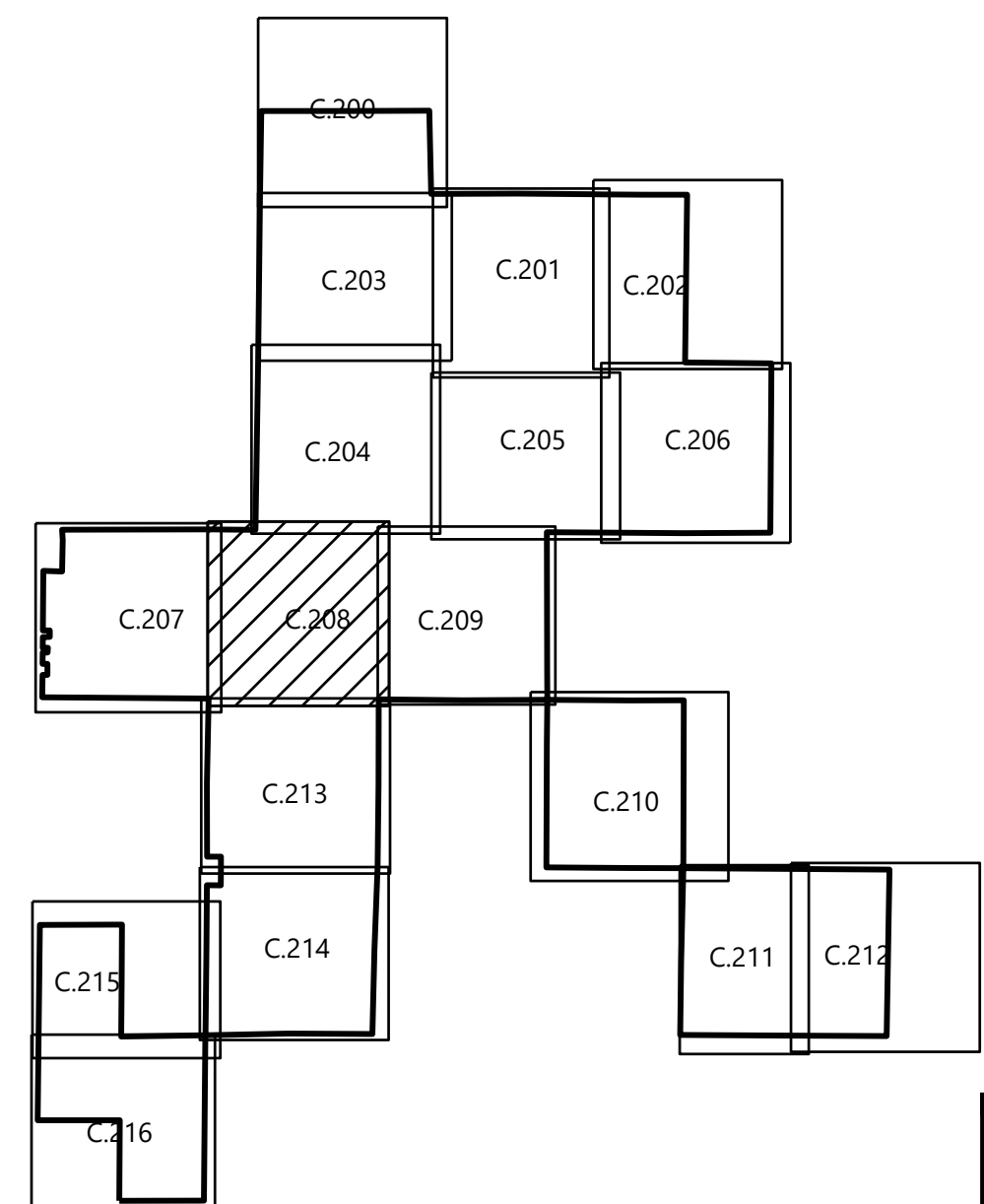
SEE SHEET C.213

LEGEND:

-
-  PROJECT BOUNDARY (FROM ALTA SURVEY)
 PROJECT PARCEL LINE (FROM ALTA SURVEY)
 EXISTING ROADS
 EASEMENT LINES
 EXISTING OVERHEAD POWER
 EXISTING INDEX CONTOUR (5' CONTOUR)
 EXISTING INTERVAL CONTOUR (1' CONTOUR)
 PROPOSED SOLAR ARRAY
 PROPOSED SECURITY FENCE
 PROPOSED ELECTRICAL EQUIPMENT
 PROPOSED LAYDOWN YARD
 FEMA FLOOD ZONE A
 PROPOSED COLLECTION CORRIDOR FOR OPTION 1 AND OPTION 2
 PROPOSED ADDITIONAL COLLECTION CORRIDOR FOR OPTION 2

NOTES:

1. CONTRACTOR SHALL INSTALL ALL PERIMETER EROSION AND SEDIMENT CONTROL DEVICES PRIOR TO UNFOLD DISTURBANCE ACTIVITIES.
2. CONTRACTOR TO USE A PHASED APPROACH DURING CONSTRUCTION ACTIVITIES. ONCE AN AREA HAS BEEN DISTURBED, EROSION CONTROL STRIPS AND BASINS MAY BE REMOVED OR CONVERTED TO PERMANENT CONDITIONS.
3. SITE PREPARATION INCLUDES BUT IS NOT LIMITED TO CLEARING/GRUBBING, MINOR GRADING, COMPACTION, MOWING OF VEGETATION, AND REESTABLISHMENT OF DISTURBED AREA.
4. MINOR SURFACE SMOOTHING MAY OCCUR FOR SOLAR PANEL INSTALLATION.
5. ALL GRADING SHALL INCLUDE SURFACE ROUGHENING.
6. ACCESS ROADS WILL BE CONSTRUCTED TO MATCH THE SURROUNDING EXISTING TERRAIN CONDITIONS TO ALLOW THE CONTINUATION OF DRAINAGE PATTERNS.
7. TEMPORARY BASINS AND SEDIMENT TRAP LOCATIONS TO BE DETERMINED WITH FURTHER DESIGN.
8. OVERALL DRAINAGE PATTERNS WILL NOT BE ALTERED WITH SOLAR DEVELOPMENT.
9. PROJECT DETAILS ARE SUBJECT TO CHANGE IN FINAL DESIGN.
10. EXISTING TOPOGRAPHY SHOWN IS 1' FOOT DATA OBTAINED FROM FIELD SURVEY DATED 2023-05-29



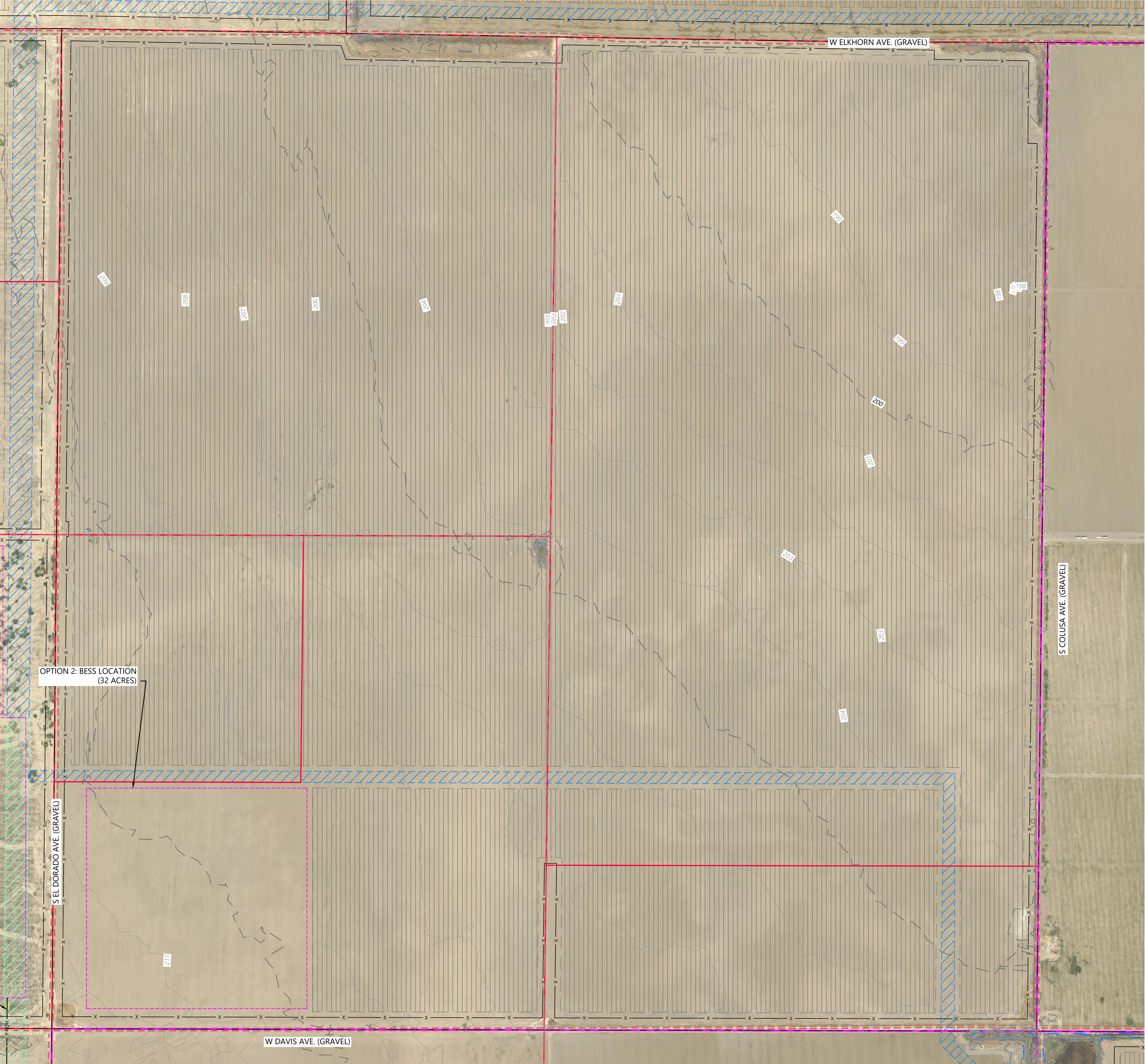
SEE SHEET C.207

SEE SHEET C.209

SEE SHEET C.208

SEE SHEET C.204

SEE SHEET C.205

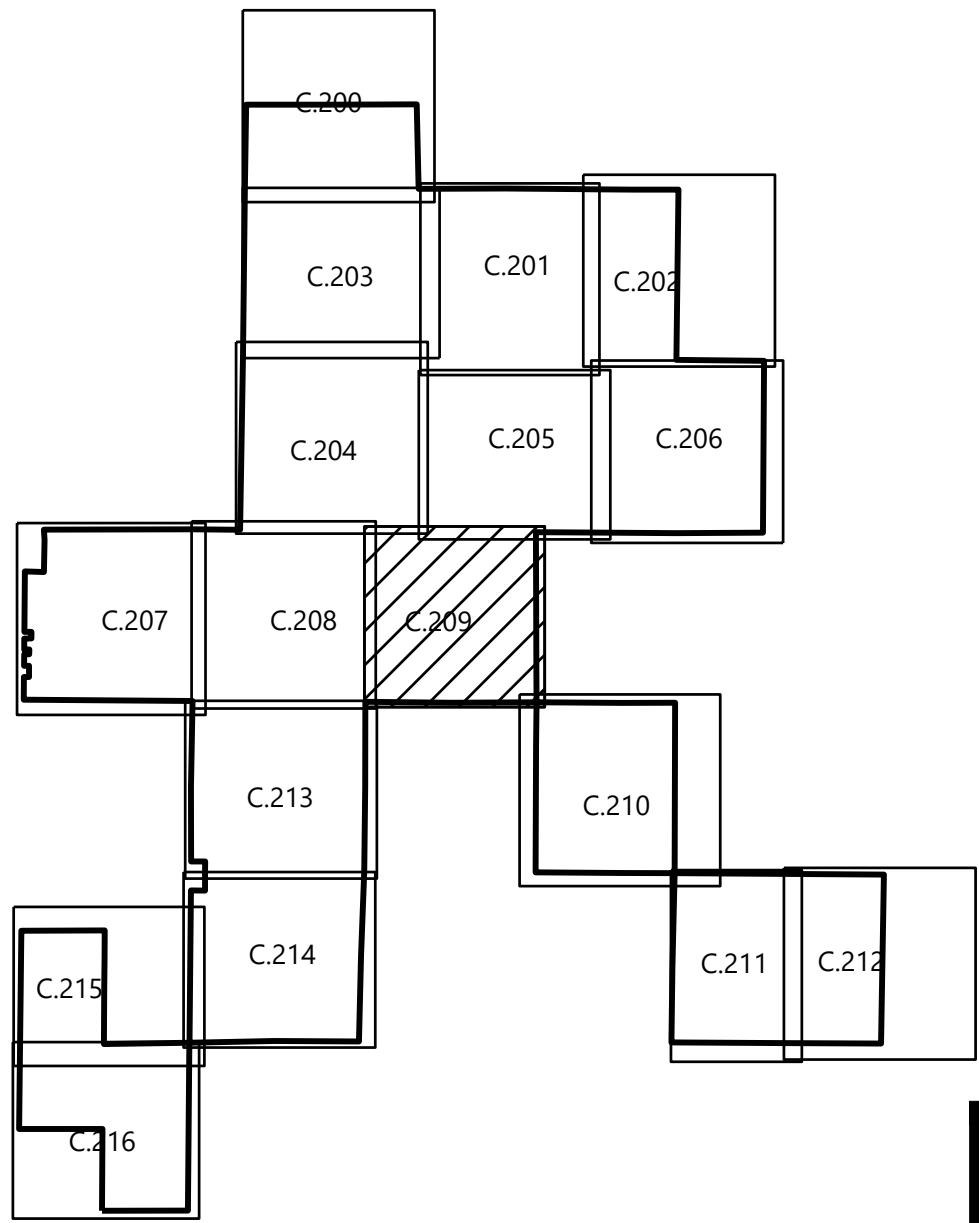


LEGEND:

- PROJECT BOUNDARY (FROM ALTA SURVEY)
- PROJECT PARCEL LINE (FROM ALTA SURVEY)
- EXISTING ROADS
- EASEMENT LINES
- EXISTING OVERHEAD POWER
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- PROPOSED ELECTRICAL EQUIPMENT
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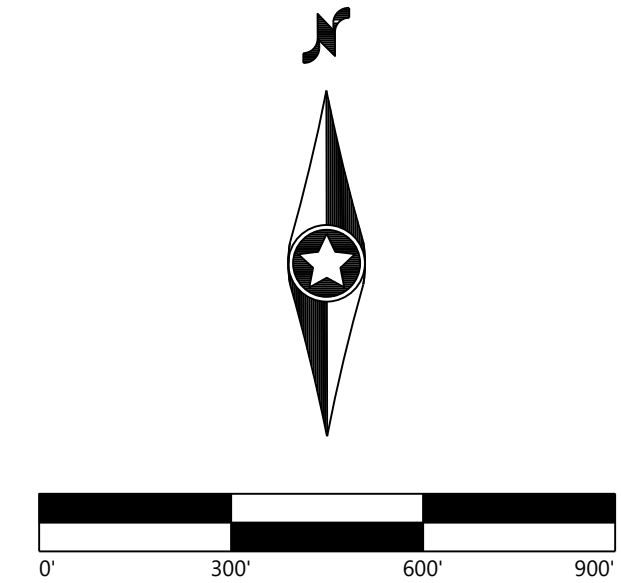
Westwood

Phone: (952) 937-5150 12701 Whitewater Drive, Suite #300
Fax: (952) 937-5822 Minnetonka, MN 55343
TollFree: (888) 937-5150 westwoodps.com
Westwood Professional Services, Inc.

PREPARED FOR:

**IP DARDEN I, LLC
AND AFFILIATES**

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IP Darden
Fresno County, CA

Site Plan-10

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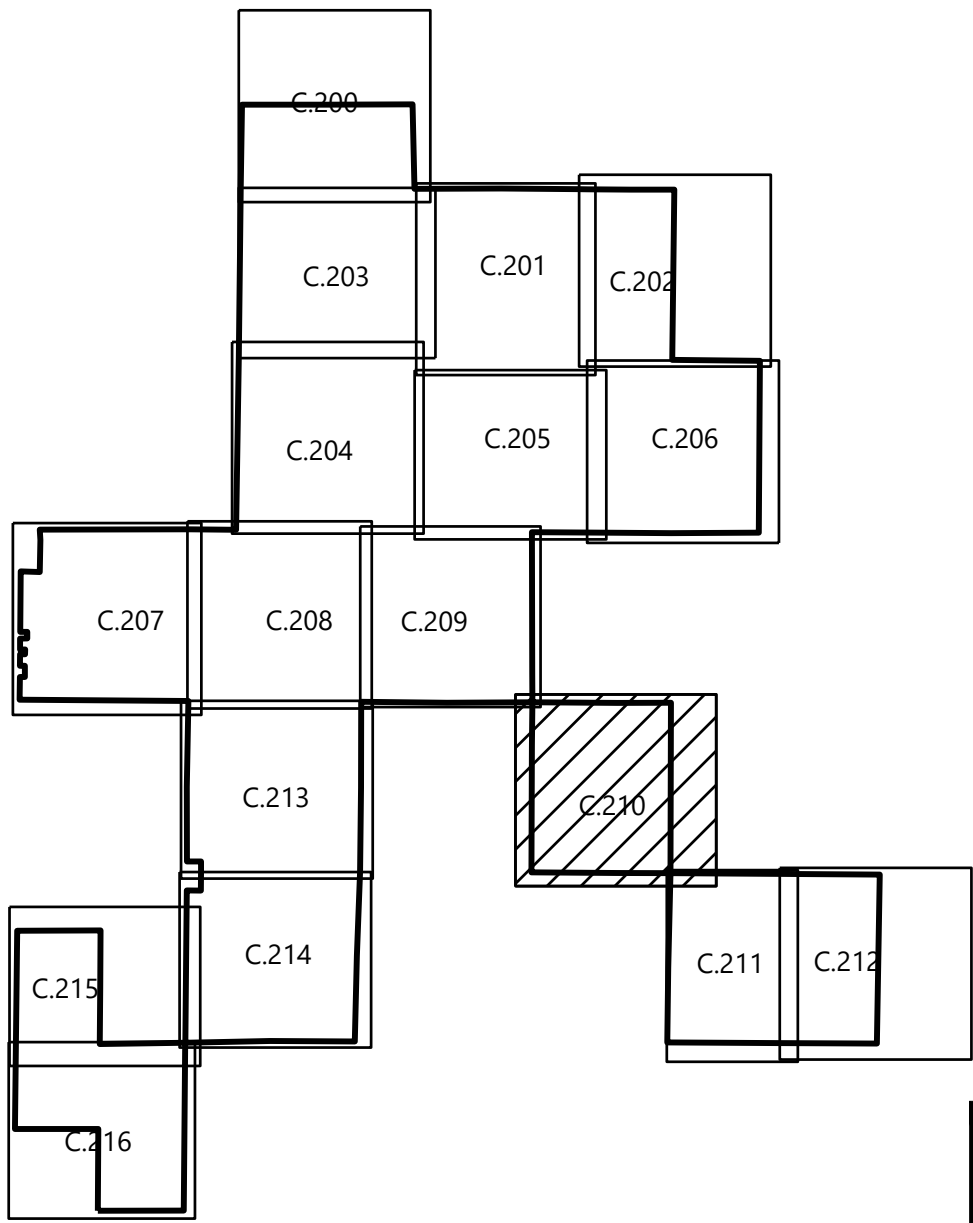
DATE:	10/16/2023	REV:
SHEET:	C.209	0

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- LEGEND:
- PROJECT BOUNDARY (FROM ALTA SURVEY)
 - PROJECT PARCEL LINE (FROM ALTA SURVEY)
 - EXISTING ROADS
 - EASEMENT LINES
 - EXISTING OVERHEAD POWER
 - EXISTING INDEX CONTOUR (5' CONTOUR)
 - EXISTING INTERVAL CONTOUR (1' CONTOUR)
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 - PROPOSED SECURITY FENCE
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 - PROPOSED COLLECTION CORRIDOR FOR OPTION 1 AND OPTION 2
 - PROPOSED ADDITIONAL COLLECTION CORRIDOR FOR OPTION 2

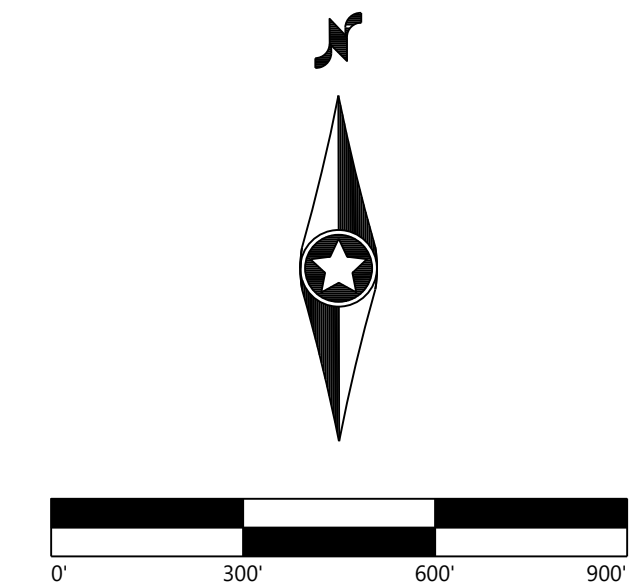
- NOTES:
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 - OVERALL DRAINAGE PATTERNS WILL NOT BE ALTERED WITH SOLAR DEVELOPMENT.
 - PROJECT DETAILS ARE SUBJECT TO CHANGE IN FINAL DESIGN.
 - EXISTING TOPOGRAPHY SHOWN IS 1 FOOT DATA OBTAINED FROM FIELD SURVEY DATED 2023-05-25



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**IP DARDEN I, LLC
AND AFFILIATES**

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IP Darden
Fresno County, CA

Site Plan-11

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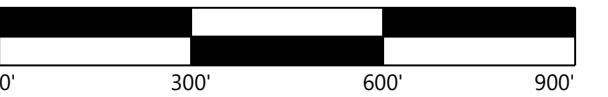
DATE:	10/16/2023	REV:
SHEET:	C.210	0

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IP DARDEN I, LLC
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IP Darden

Fresno County, CA

Site Plan-12

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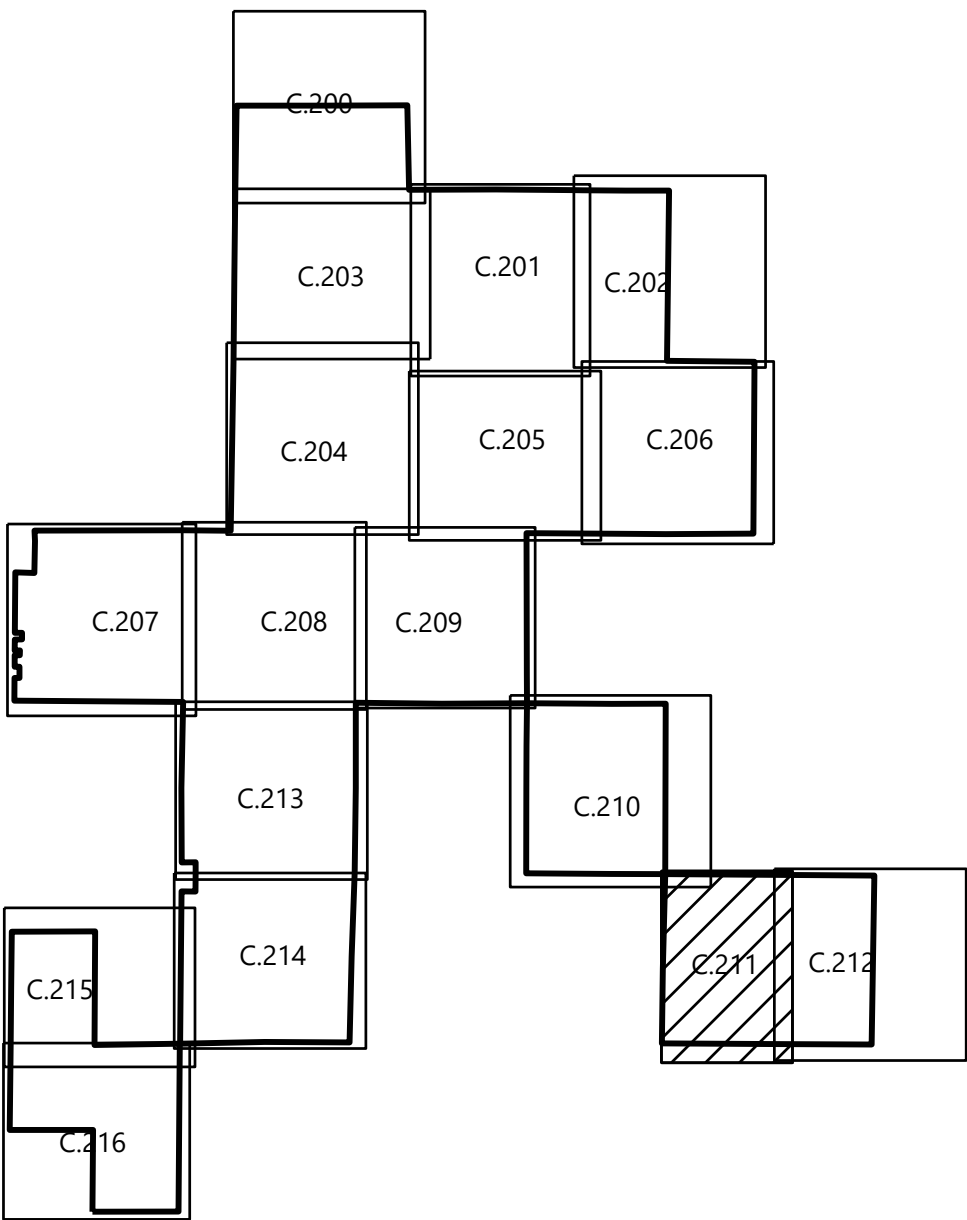
SEE SHEET C.212

LEGEND:

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- PROJECT BOUNDARY (FROM ALTA SURVEY)
 PROJECT PARCEL LINE (FROM ALTA SURVEY)
 EXISTING ROADS
 EASEMENT LINES
 EXISTING OVERHEAD POWER
 EXISTING INDEX CONTOUR (5' CONTOUR)
 EXISTING INTERVAL CONTOUR (1' CONTOUR)
 PROPOSED SOLAR ARRAY
 PROPOSED SECURITY FENCE
 PROPOSED ELECTRICAL EQUIPMENT
 PROPOSED LAYDOWN YARD
 FEMA FLOOD ZONE A
 PROPOSED COLLECTION CORRIDOR FOR OPTION 1 AND OPTION 2
 PROPOSED ADDITIONAL COLLECTION CORRIDOR FOR OPTION 2

NOTES:

1. CONTRACTOR SHALL INSTALL ALL PERIMETER EROSION AND SEDIMENT CONTROL DEVICES PRIOR TO UPSHORE DISTURBANCE ACTIVITIES.
2. CONTRACTOR TO USE A PHASED APPROACH TO EROSION CONTROL CONSTRUCTION ACTIVITIES. ONCE AN AREA HAS BEEN STABILIZED, TEMPORARY BASINS AND BASINS MAY BE REMOVED OR CONVERTED TO PERMANENT CONDITIONS.
3. SITE PREPARATION INCLUDES BUT IS NOT LIMITED TO CLEARING/GRUBBING, MINOR GRADING, COMPACTION, MOWING OF VEGETATION, AND REESTABLISHMENT OF VEGETATION.
4. MINOR SURFACE SMOOTHING MAY OCCUR FOR SOLAR PANEL INSTALLATION. ALL GRADING SHALL INCLUDE SURFACE ROUGHENING.
5. ACCESS ROADS WILL BE CONSTRUCTED TO MATCH THE SURROUNDING EXISTING TERRAIN. EROSION CONTROL ACTIVITIES WILL BE CONJUGATED TO DRAINAGE PATTERNS. TEMPORARY BASINS AND SEDIMENT TRAP LOCATIONS TO BE DETERMINED WITH FURTHER DESIGN.
6. OVERALL DRAINAGE PATTERNS WILL NOT BE ALTERED WITH SOLAR DEVELOPMENT. PRELIMINARY DETAILS ARE SUBJECT TO CHANGE IN FINAL DESIGN.
7. EXISTING TOPOGRAPHY SHOWN IS 1 FOOT DATA OBTAINED FROM FIELD SURVEY DATED 2023-05-29



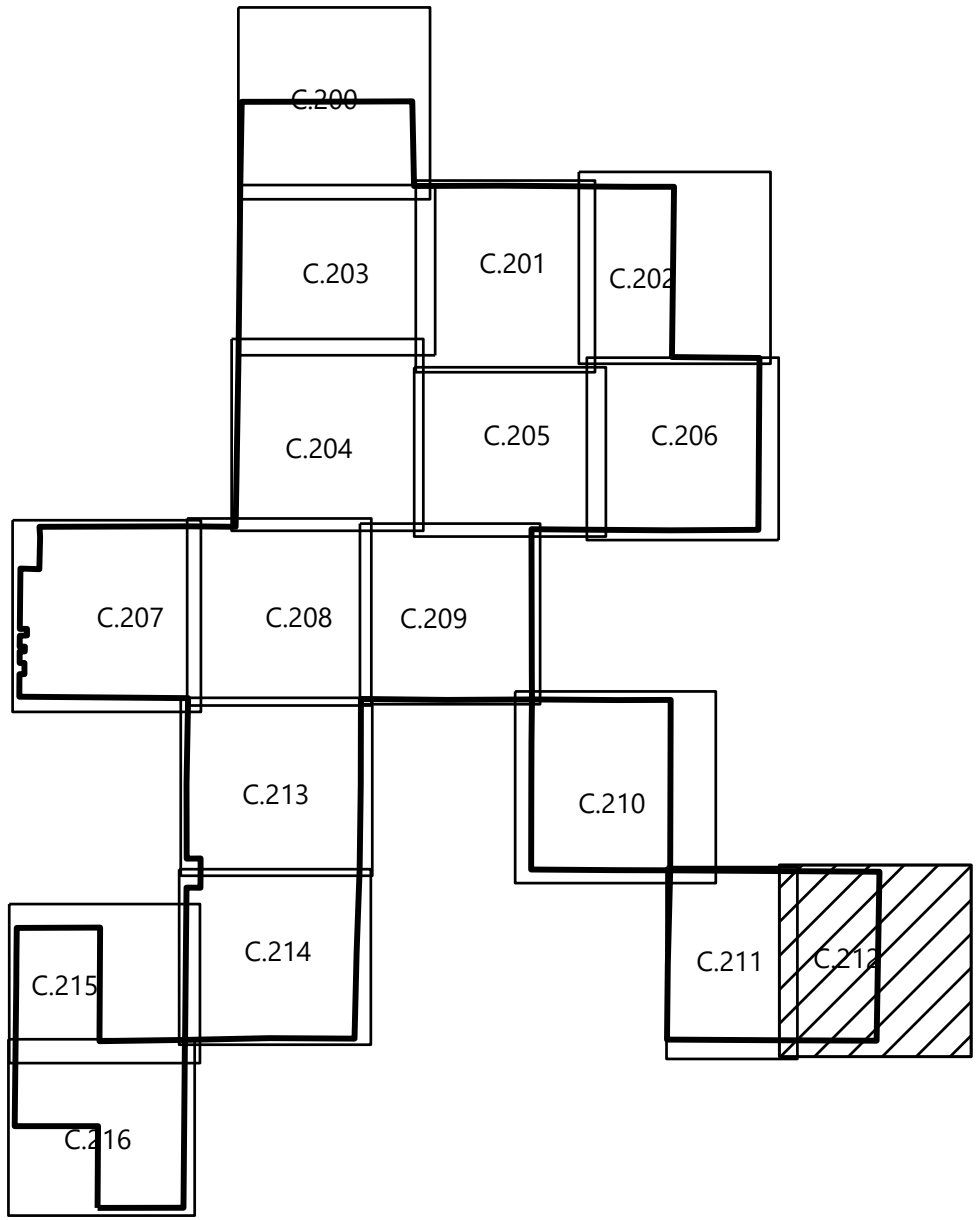
SEE SHEET C.211

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- LEGEND:
- PROJECT BOUNDARY (FROM ALTA SURVEY)
 - PROJECT PARCEL LINE (FROM ALTA SURVEY)
 - EXISTING ROADS
 - EASEMENT LINES
 - EXISTING OVERHEAD POWER
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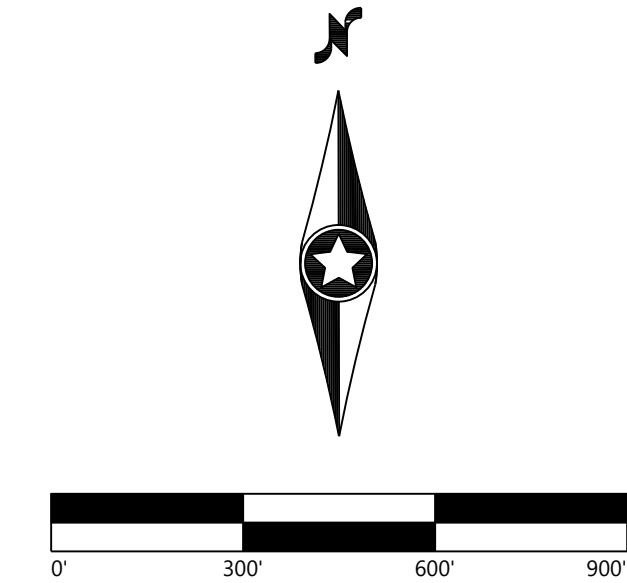
- NOTES:
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PREPARED FOR:

**IP DARDEN I, LLC
AND AFFILIATES**

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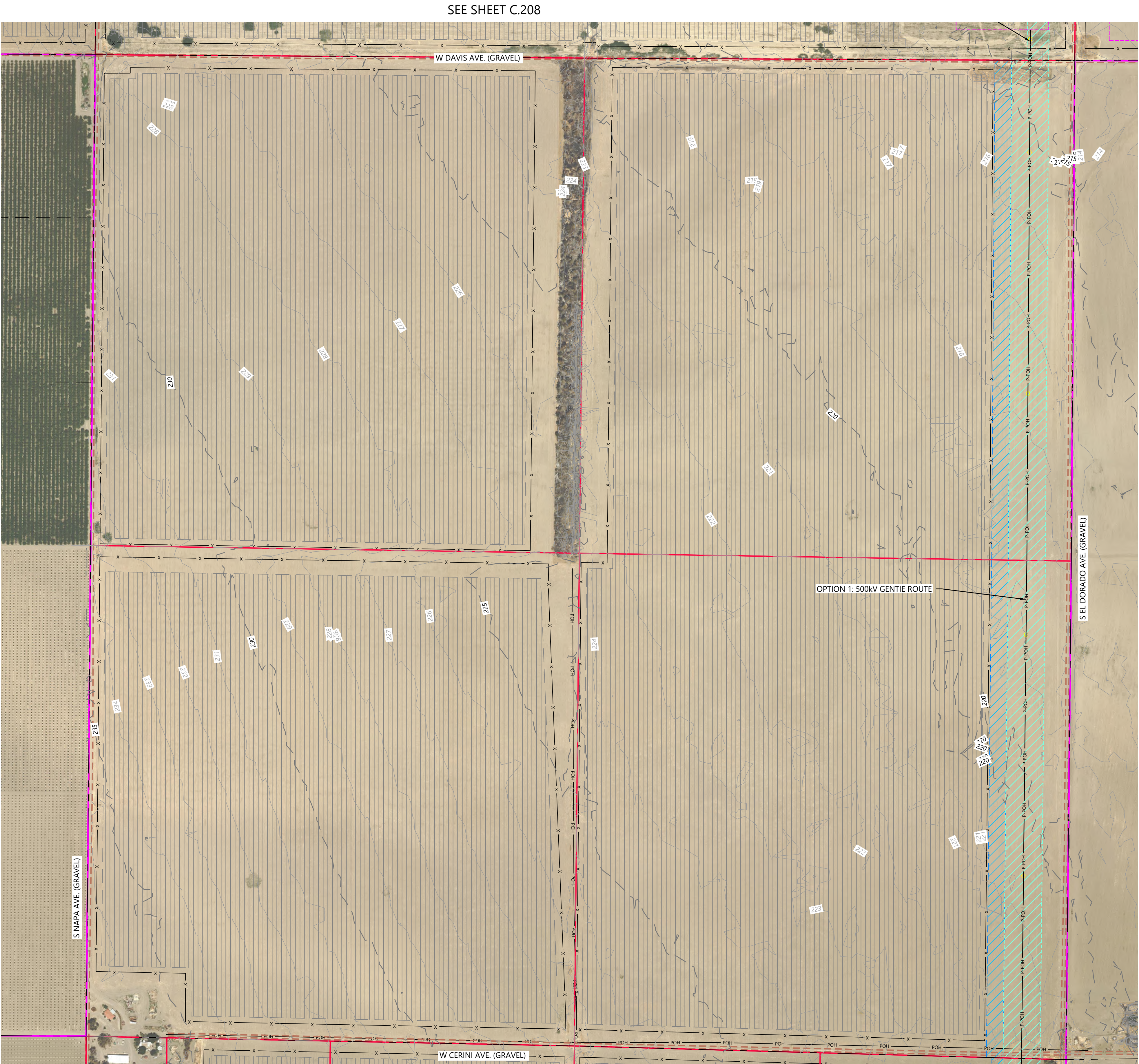
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Fresno County, CA

Site Plan-13

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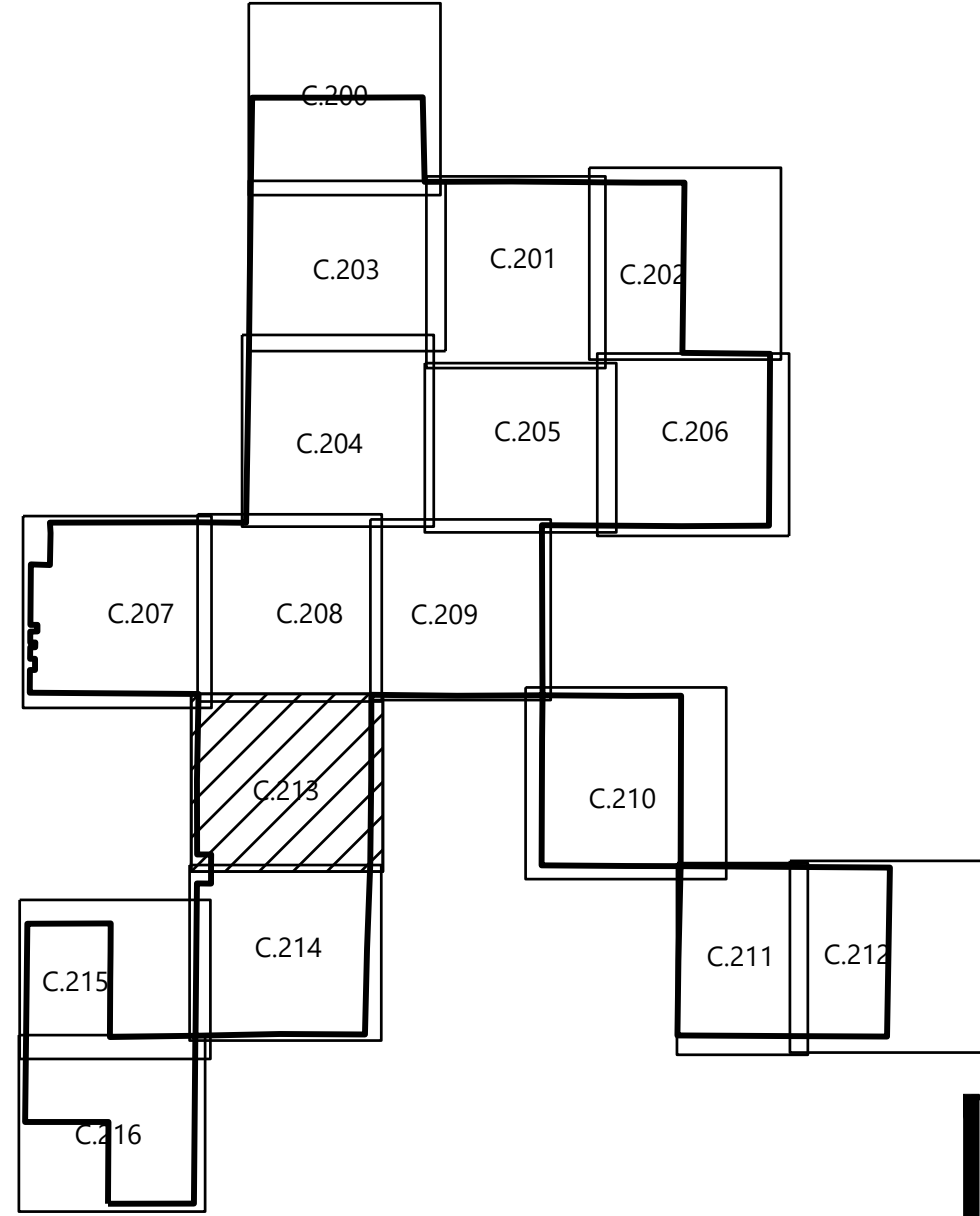
DATE:	10/16/2023	REV:
SHEET:	C.212	0

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- LEGEND:**
- PROJECT BOUNDARY (FROM ALTA SURVEY)
 - PROJECT PARCEL LINE (FROM ALTA SURVEY)
 - EXISTING ROADS
 - EASEMENT LINES
 - EXISTING OVERHEAD POWER
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Westwood

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Fax: (952) 937-5822 Minnetonka, MN 55343
TollFree: (888) 937-5150 westwoodps.com
Westwood Professional Services, Inc.

PREPARED FOR:

**IP DARDEN I, LLC
AND AFFILIATES**

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0' 300' 600' 900'

IP Darden
Fresno County, CA

Site Plan-14

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DATE:	10/16/2023	REV:
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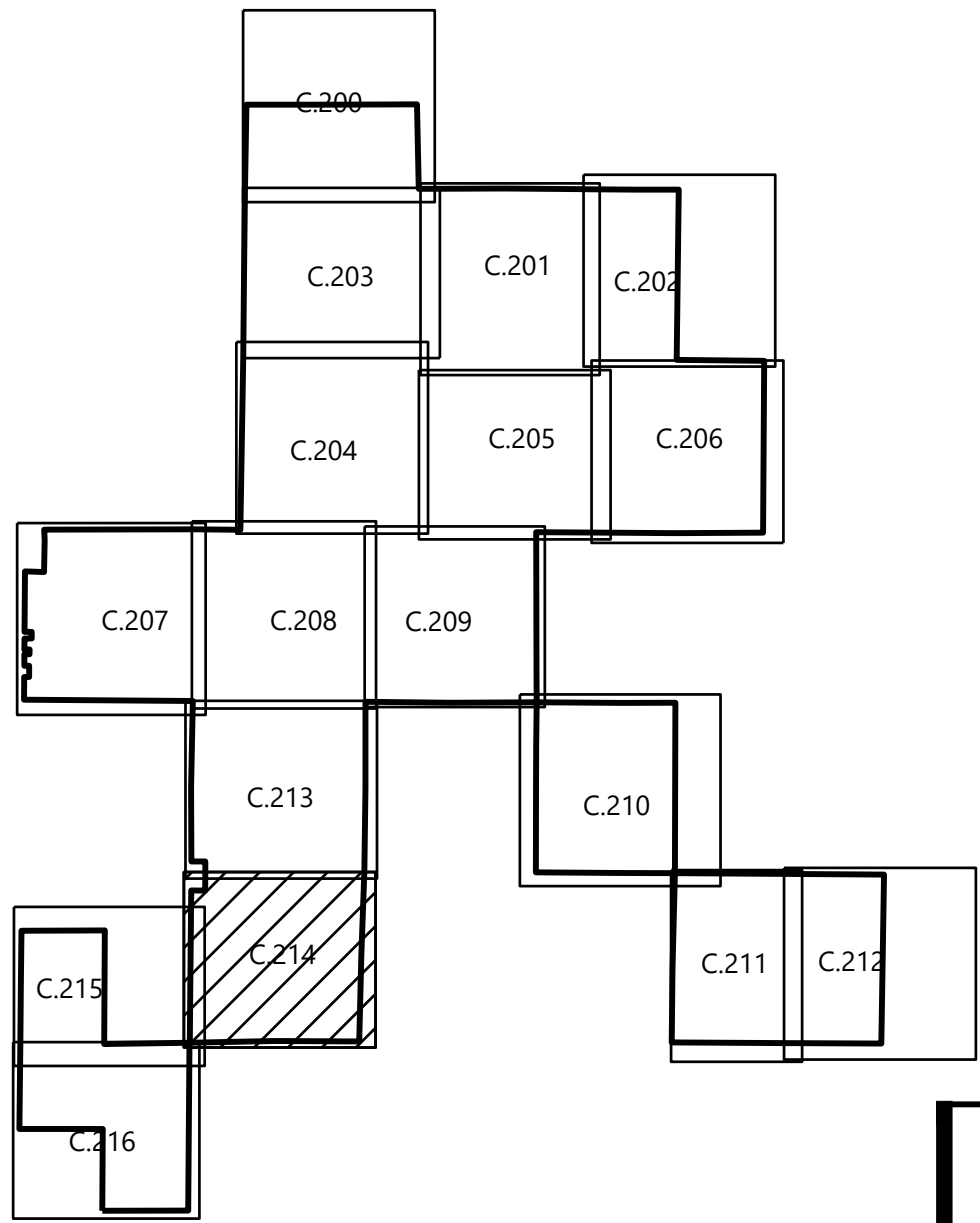


LEGEND:

- PROJECT BOUNDARY (FROM ALTA SURVEY)
- PROJECT PARCEL LINE (FROM ALTA SURVEY)
- EXISTING ROADS
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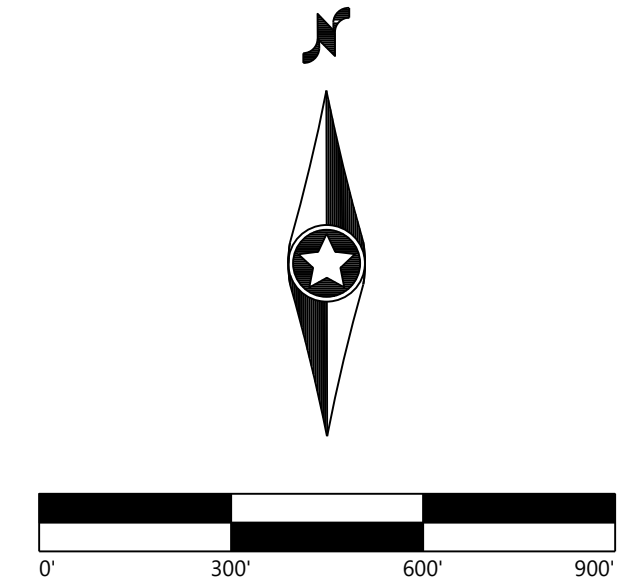
Westwood

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Westwood Professional Services, Inc.

PREPARED FOR:

IP DARDEN I, LLC
AND AFFILIATES

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Site Plan-15

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REV: 0

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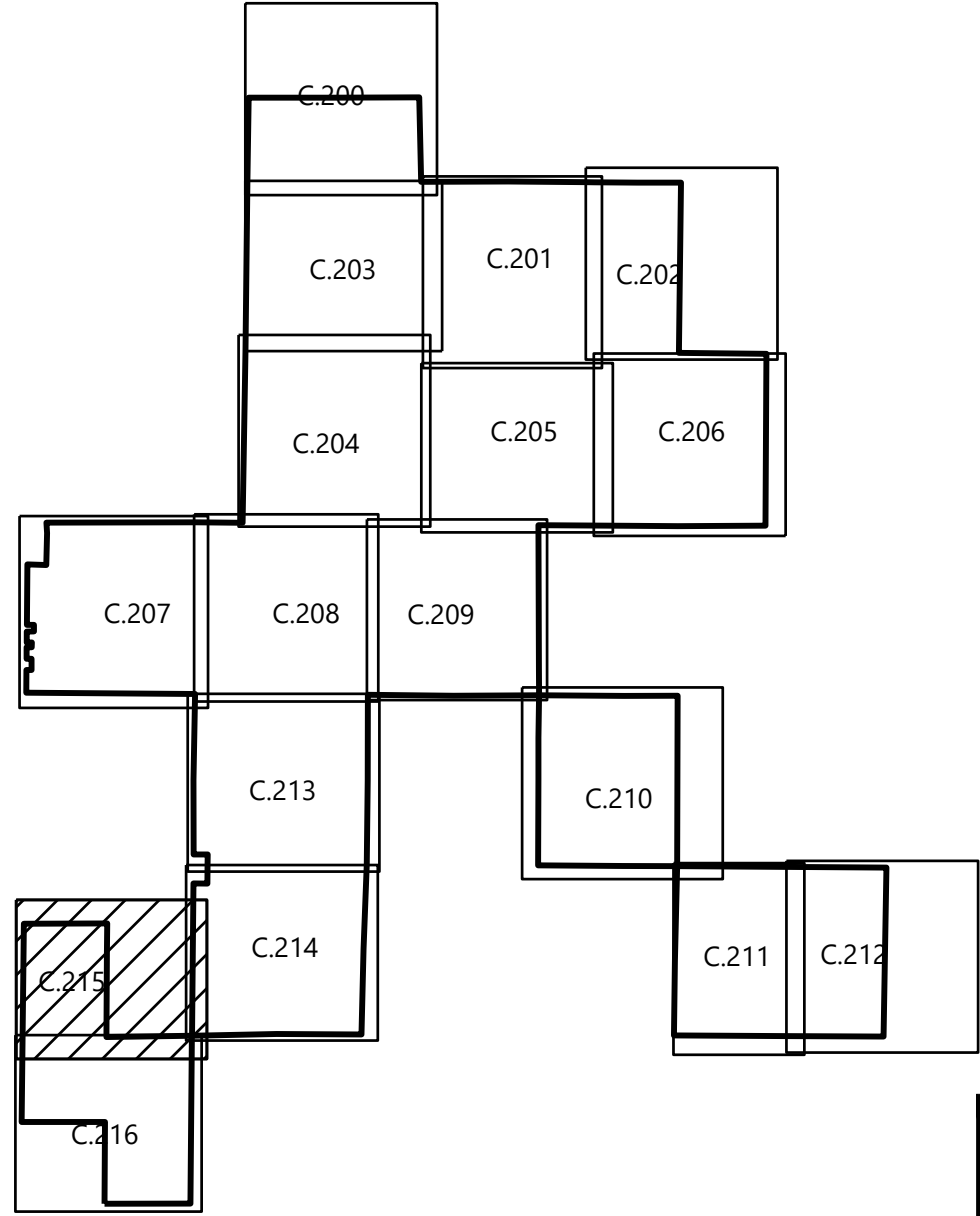
SEE SHEET C.216

SEE SHEET C.214

LEGEND:

- PROJECT BOUNDARY (FROM ALTA SURVEY)
- PROJECT PARCEL LINE (FROM ALTA SURVEY)
- EXISTING ROADS
- EASEMENT LINES
- EXISTING OVERHEAD POWER
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PREPARED FOR:

**IP DARDEN I, LLC
AND AFFILIATES**

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0' 300' 600' 900'

North Arrow

IP Darden
Fresno County, CA

Site Plan-16

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DATE:	10/16/2023	REV:
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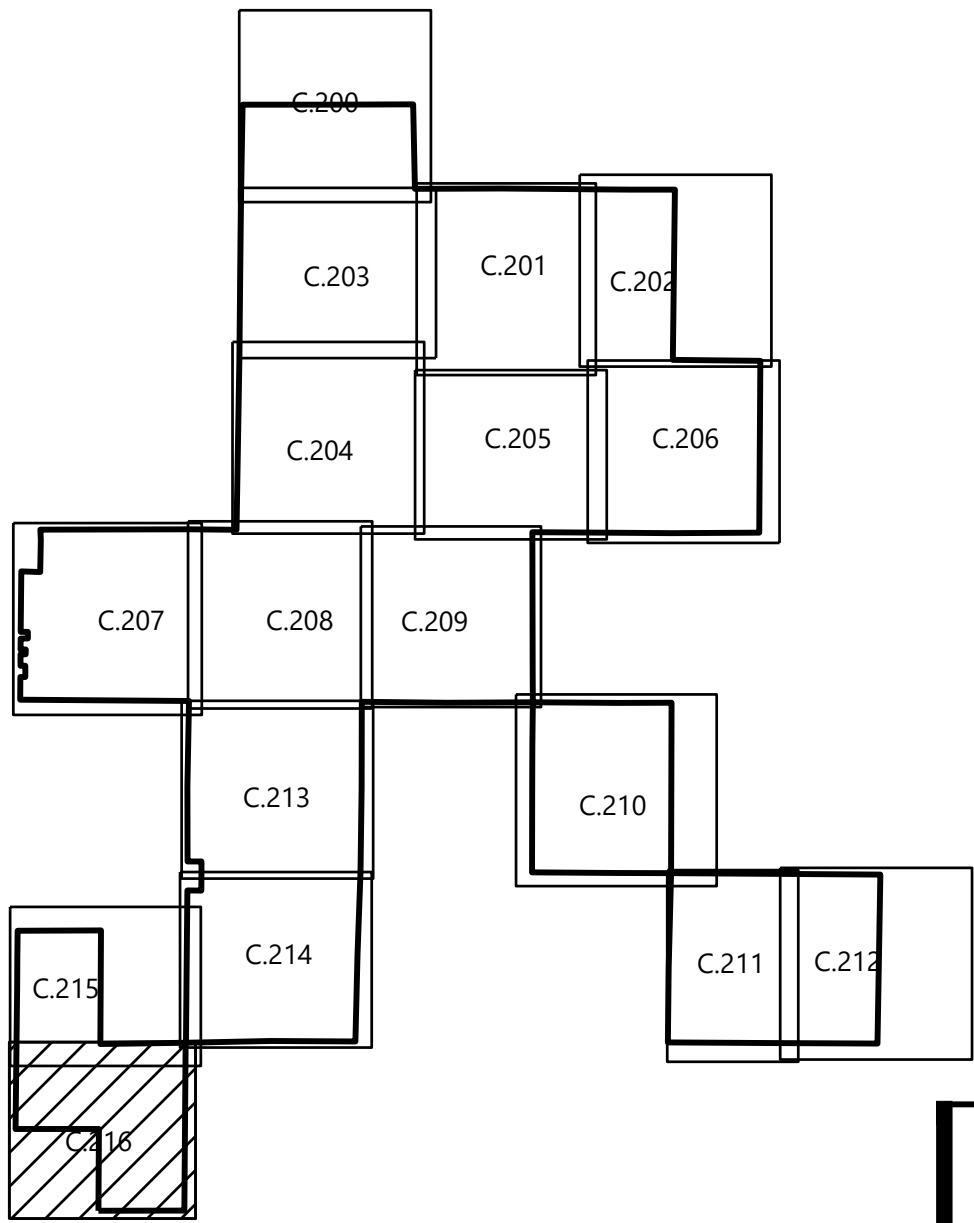


LEGEND:

- PROJECT BOUNDARY (FROM ALTA SURVEY)
- PROJECT PARCEL LINE (FROM ALTA SURVEY)
- EXISTING ROADS
- EASEMENT LINES
- EXISTING OVERHEAD POWER
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- FEMA FLOOD ZONE A
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NOTES:

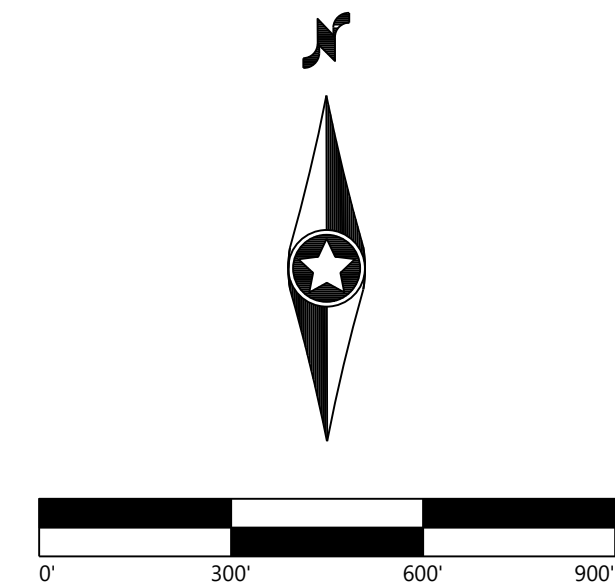
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PREPARED FOR:

**IP DARDEN I, LLC
AND AFFILIATES**

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Fresno County, CA

Site Plan-17

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PREPARED FOR:

IP DARDEN I, LLC
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REVISIONS:

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IP Darden
Fresno County, CA

Construction Details

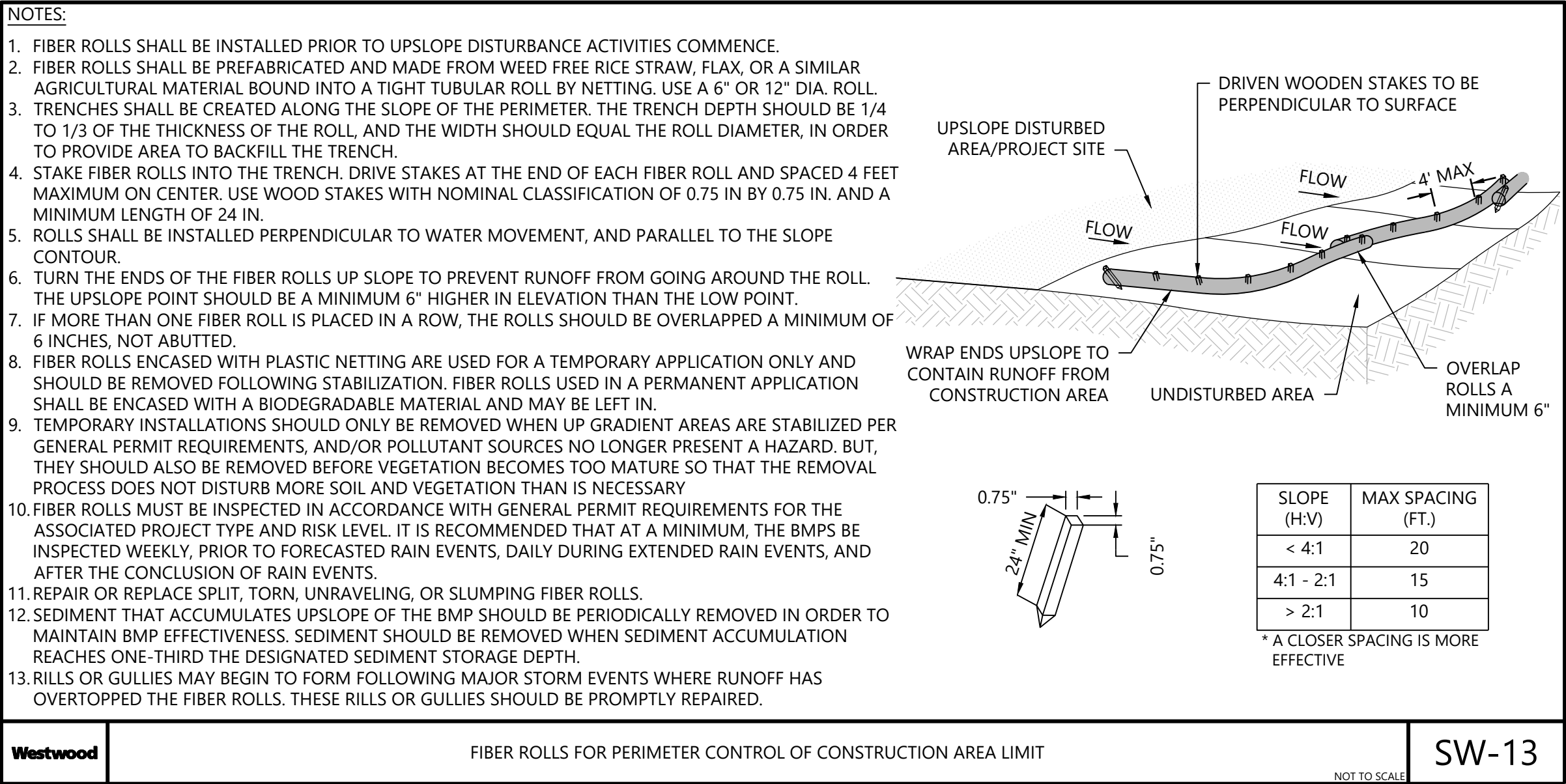
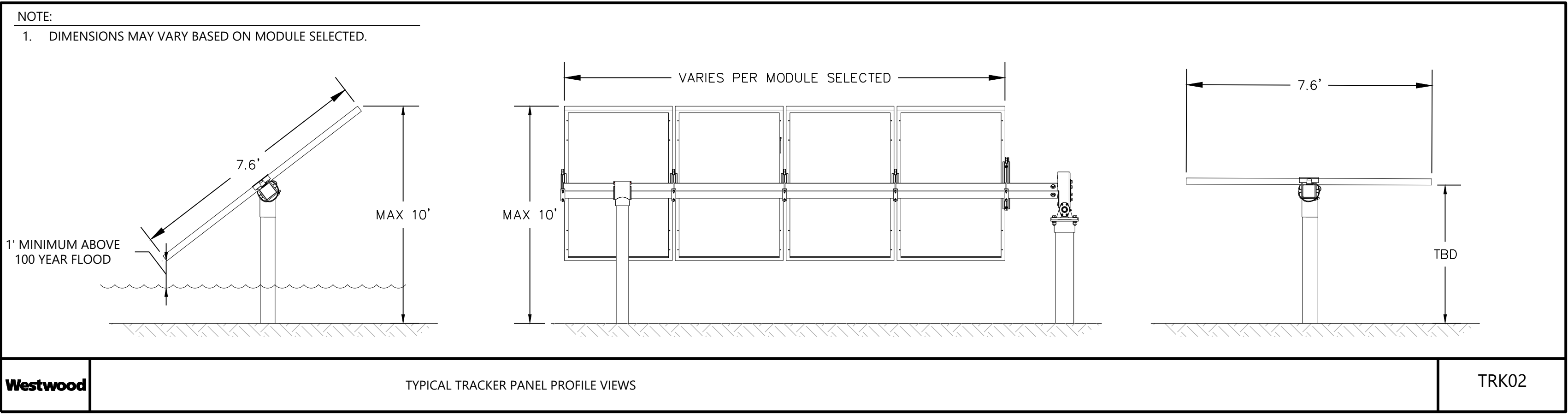
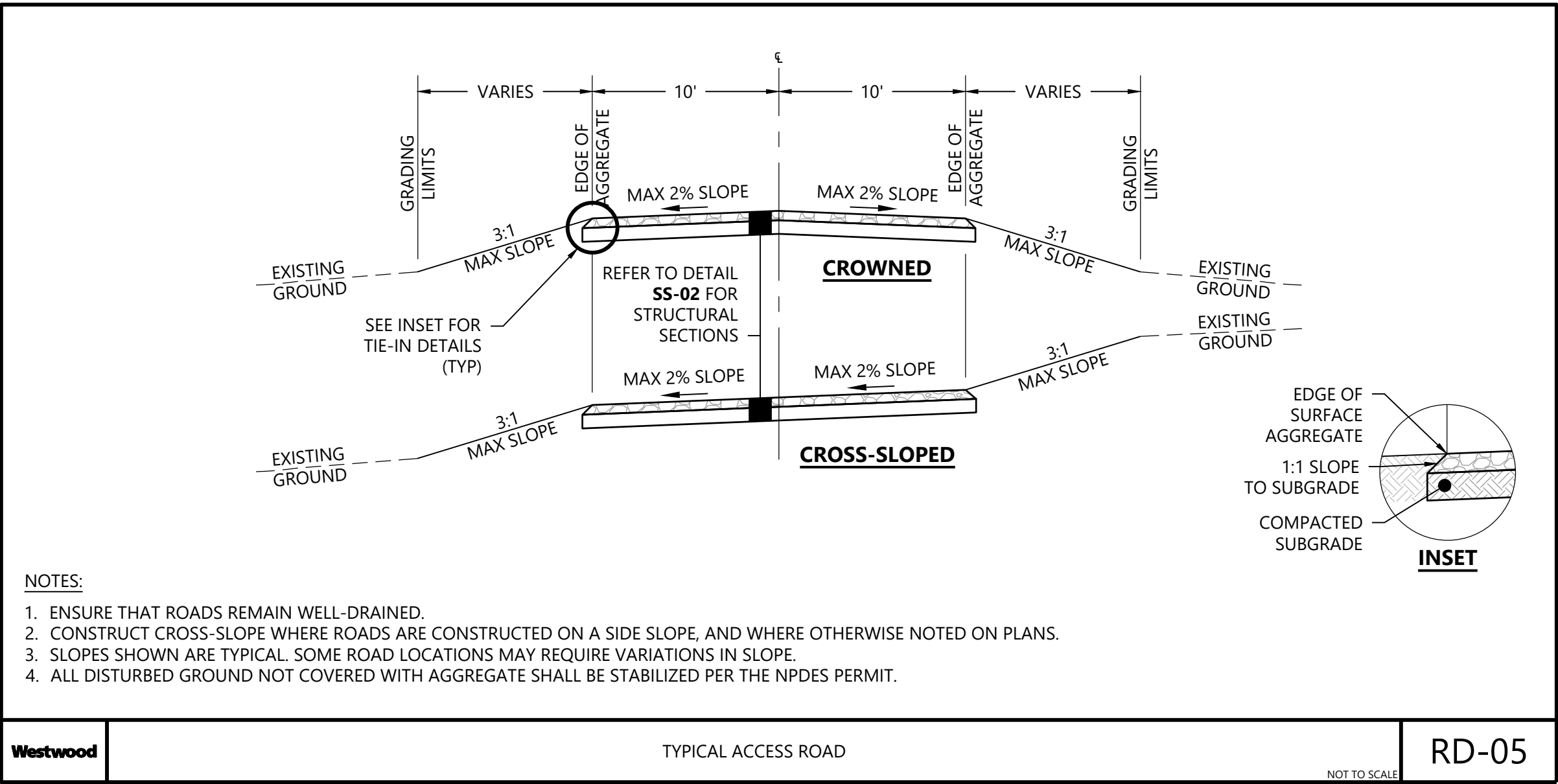
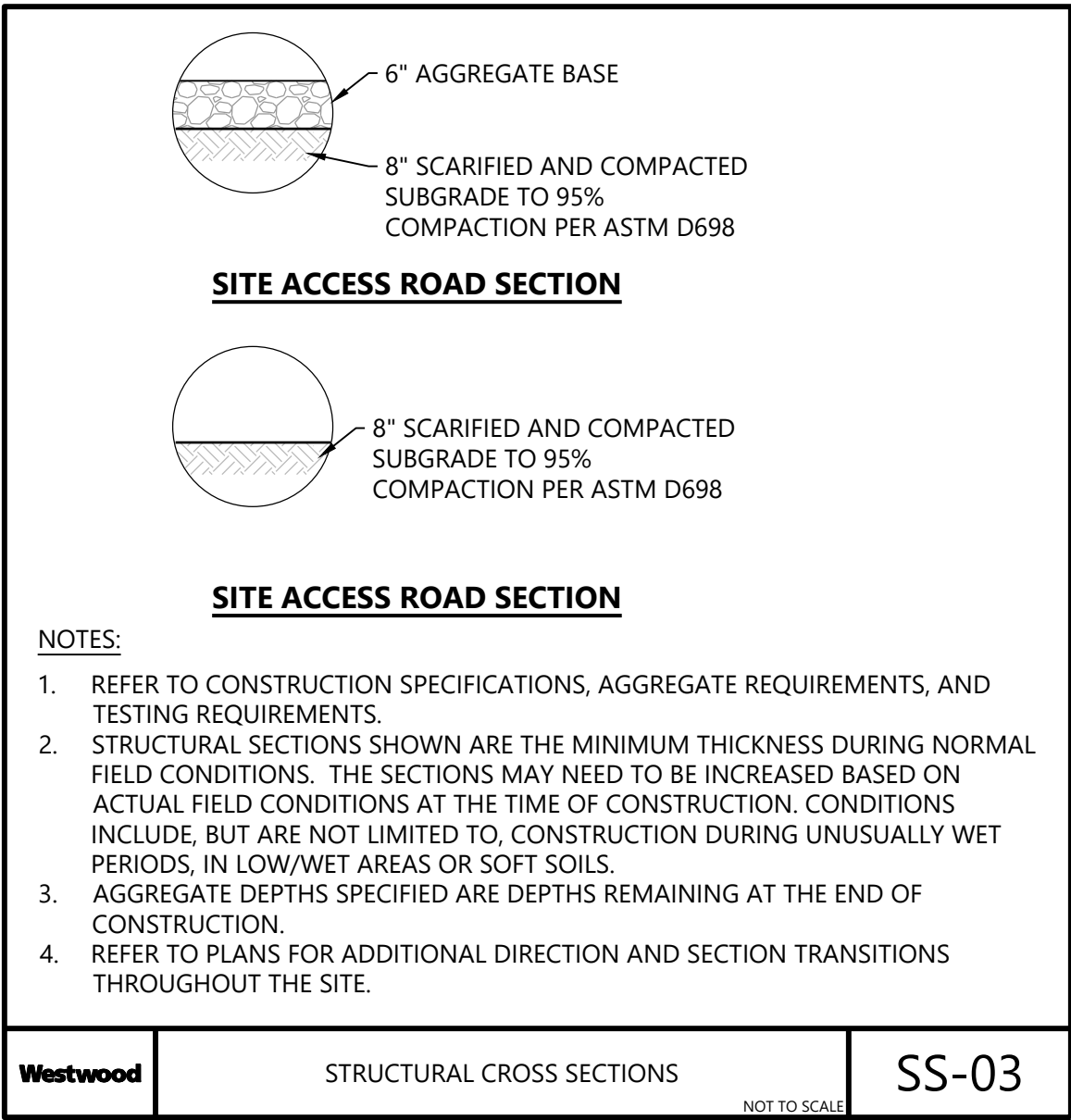
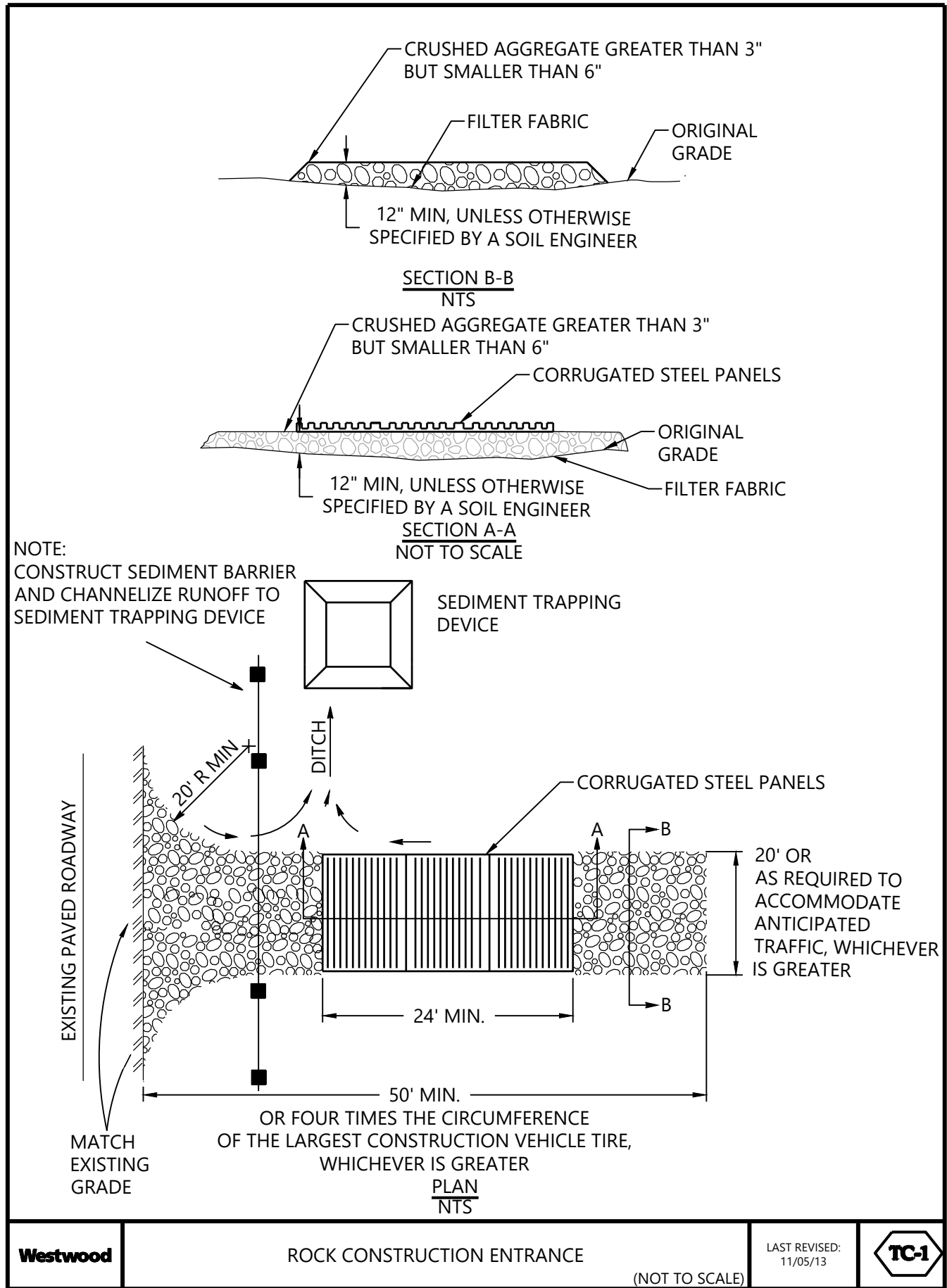
Issued For Review Not For Construction

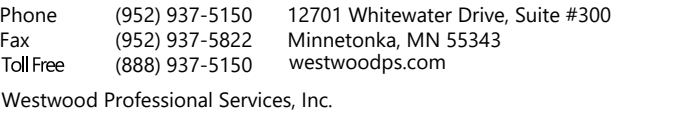
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SHEET: C.400

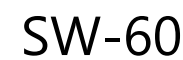
REV:

0





IP DARDEN I, LLC
AND AFFILIATES



SHEET: C.401 0

PREPARED FOR:

IP DARDEN I, LLC
AND AFFILIATES

REVISIONS:

#	DATE	ISSUED FOR	BY	CHK	APR
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0	2023-10-16	CEC Application			
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IP Darden
Fresno County, CA

Construction Details

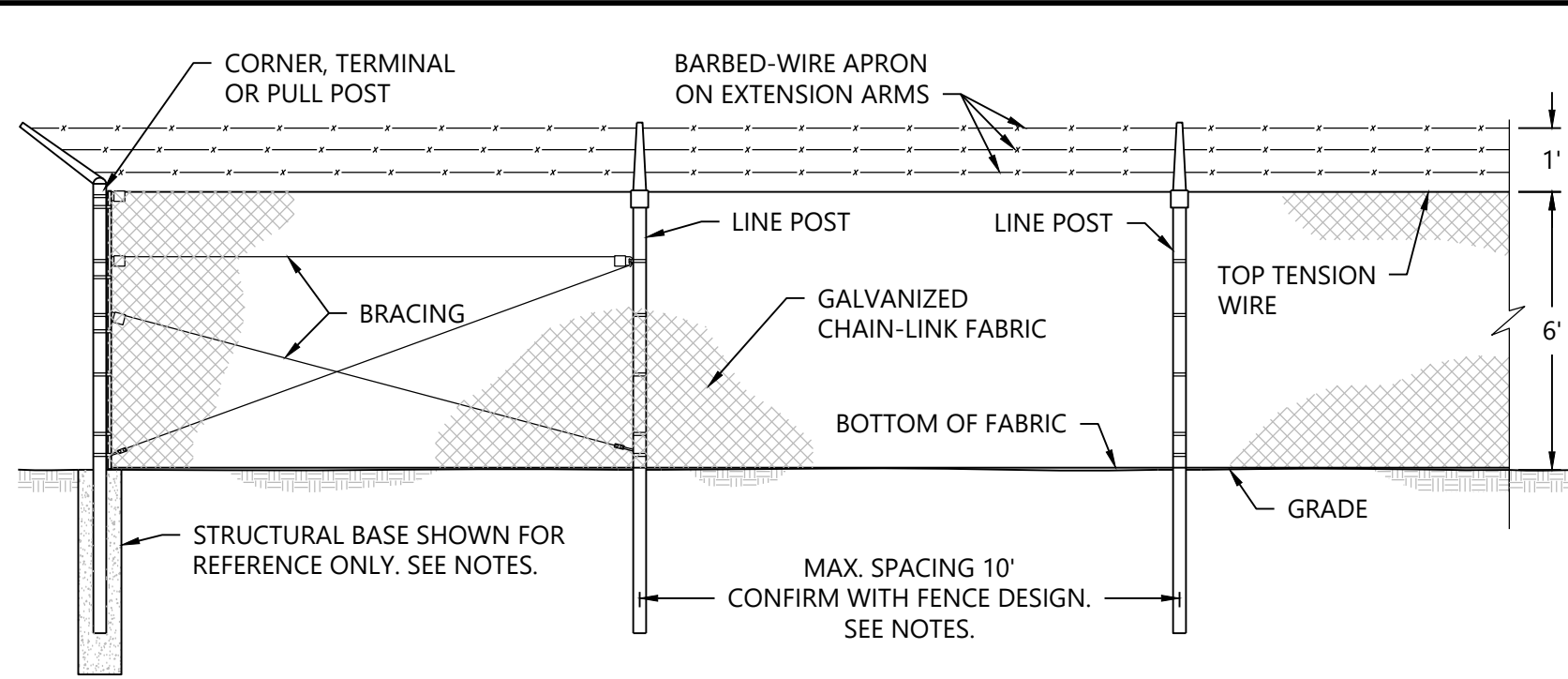
Issued For Review Not For Construction

DATE: 10/16/2023

SHEET: C.402

REV:

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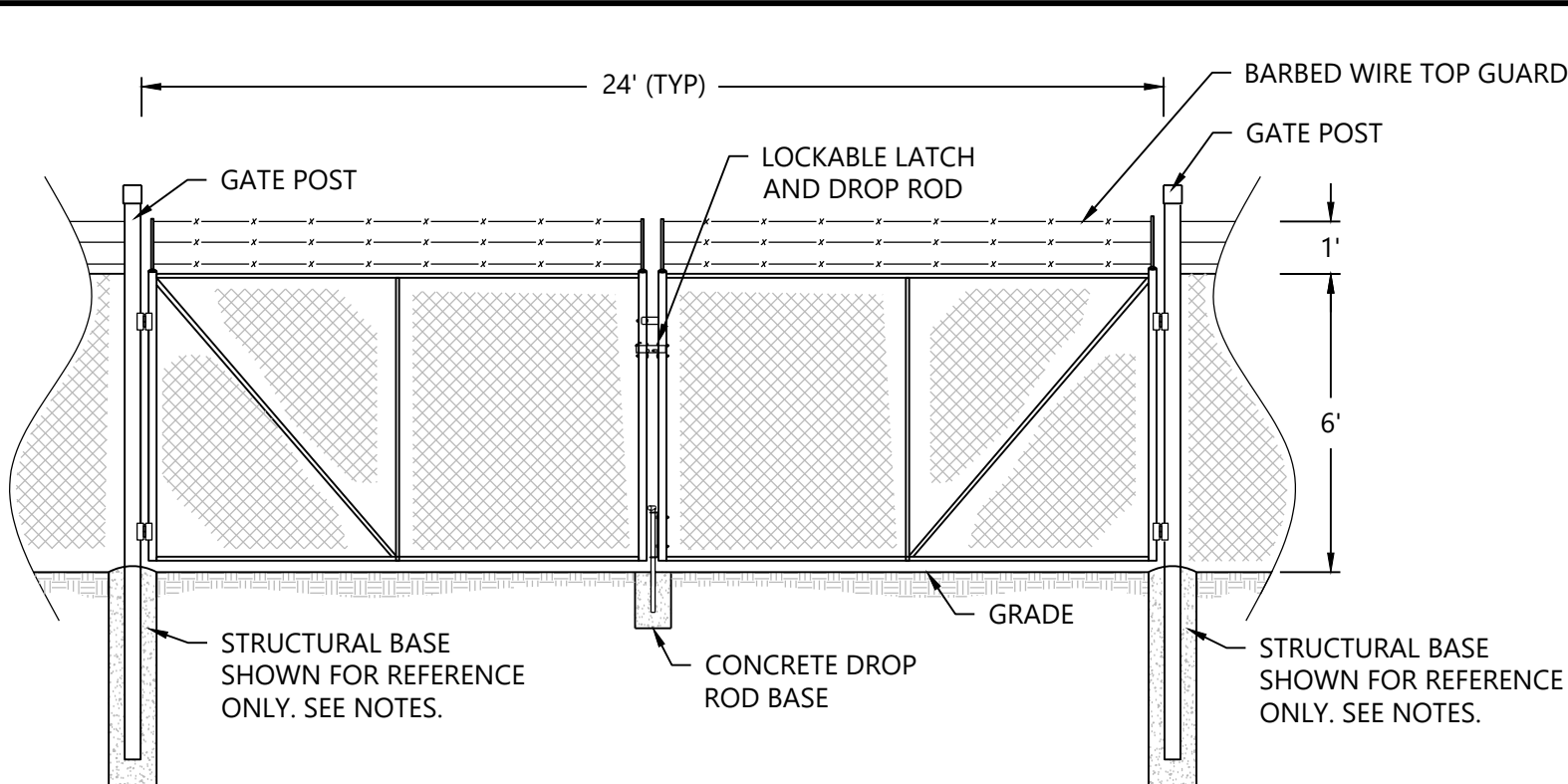
- NOTES:
1. TYPICAL FENCE AND GATE INFORMATION SHOWN IS INTENDED FOR PLANNING PURPOSES. ACTUAL DIMENSIONS AND INFORMATION TO BE PROVIDED BY FENCE SUPPLIER.
 2. REFER TO FENCE SUPPLIER SPECIFICATIONS AND DETAILS.
 3. STRUCTURAL DESIGN OF FENCE POSTS AND FOUNDATIONS TO BE PROVIDED BY FENCE SUPPLIER. STRUCTURAL 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.

Westwood

CHAIN-LINK SECURITY FENCE

NOT TO SCALE

FN-01



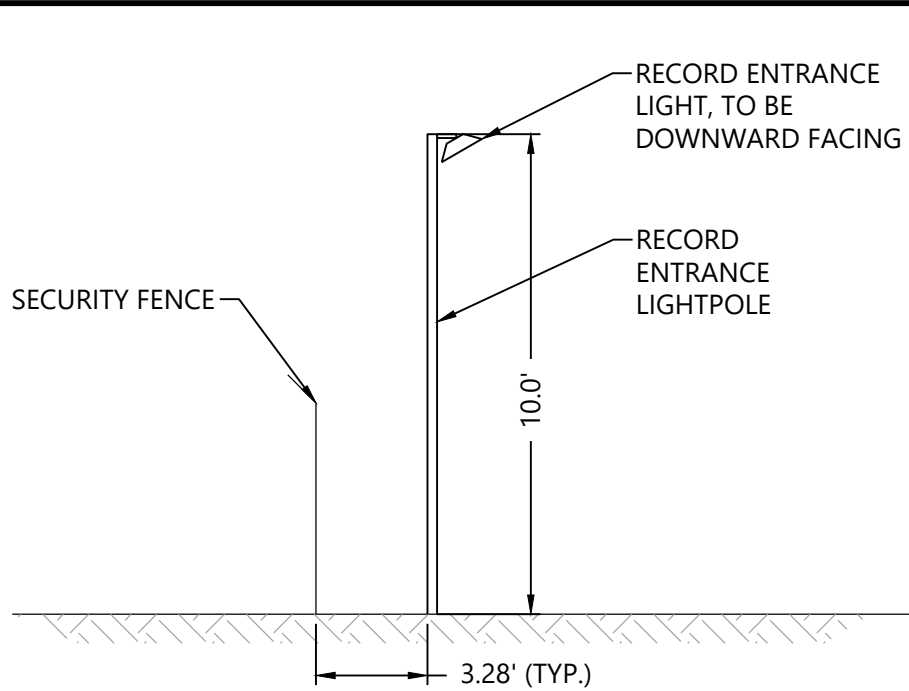
- NOTES:
1. SEE NOTES ON DETAIL FN-01.

Westwood

CHAIN-LINK SECURITY VEHICLE GATE

NOT TO SCALE

FN-02



- NOTES:
1. TYPICAL HEIGHT OF POLE WILL BE 10.0'
 2. BRIGHTNESS OF LIGHT SHALL PROVIDE 2.0 FOOT CANDLES
 3. LIGHT ACTIVATION SHALL BE MANUAL AND AUTOMATIC BY THE SECURITY SYSTEM IN CASE OF AN INTRUSION (NON-MOTION ACTIVATED)
 4. LIGHT POLE SHALL BE PLACE APPROXIMATELY 3.28' INSIDE OF FENCE
 5. LIGHTING SHALL BE DIRECTED DOWNWARD AND INWARD AWAY FROM PROPERTY LINE

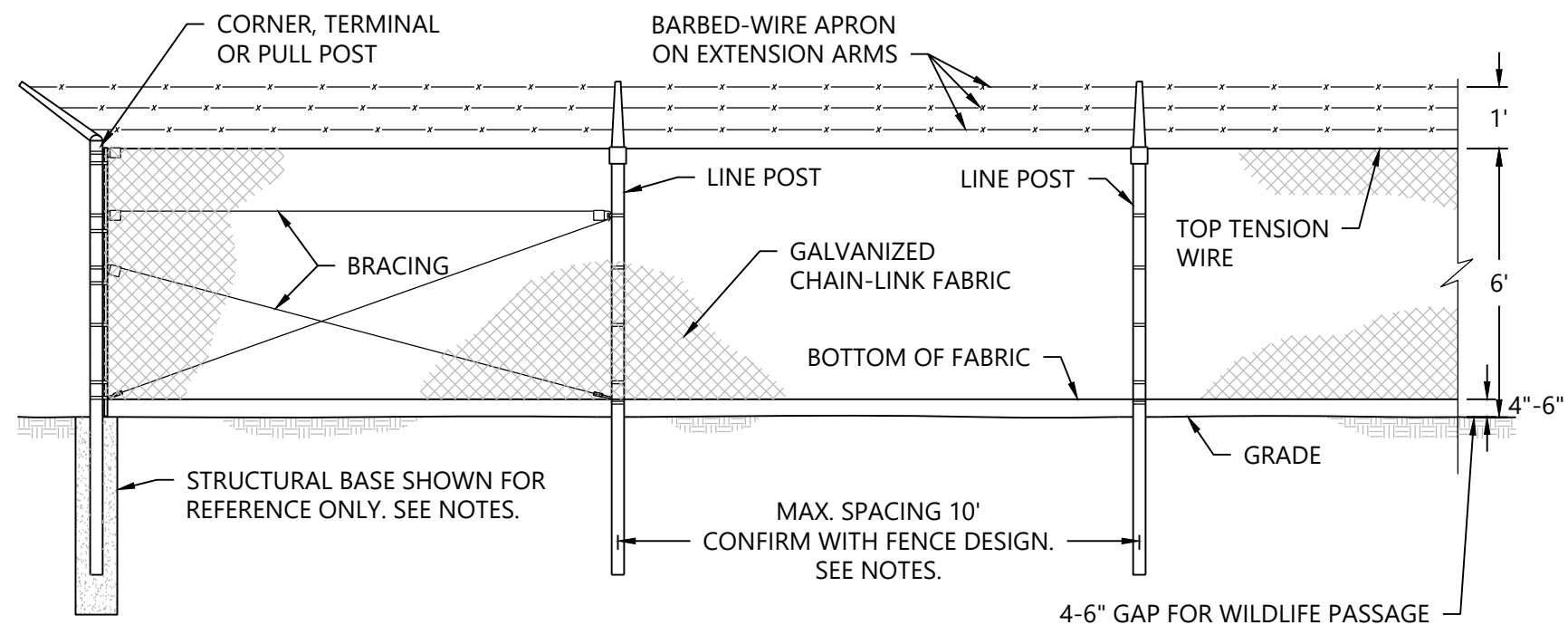
Westwood

TYPICAL ENTRANCE LIGHTING

LAST REVISED:

10/22/15

LP01



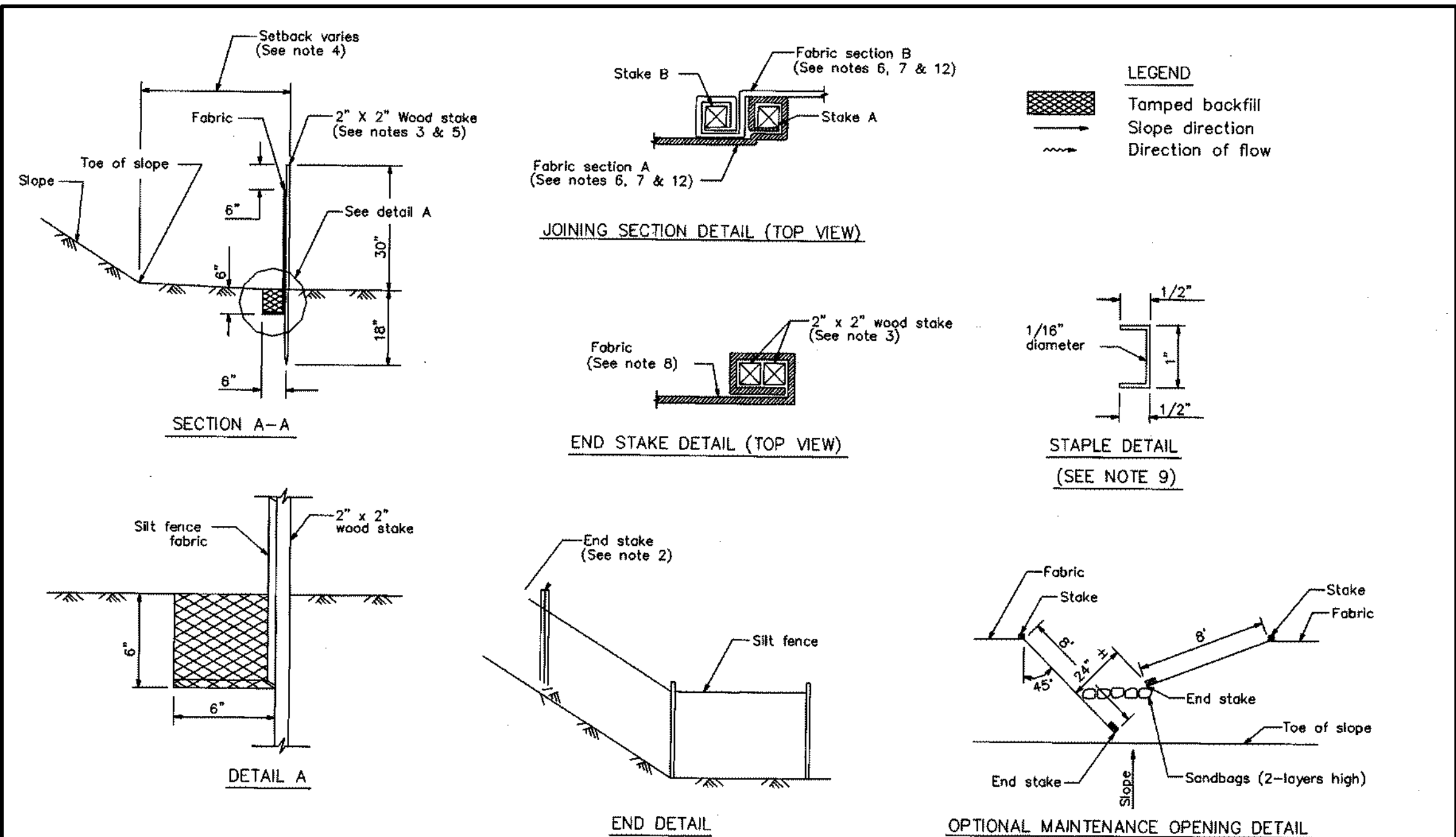
- NOTES:
1. TYPICAL FENCE AND GATE INFORMATION SHOWN IS INTENDED FOR PLANNING PURPOSES. ACTUAL DIMENSIONS AND INFORMATION TO BE PROVIDED BY FENCE SUPPLIER.
 2. REFER TO FENCE SUPPLIER SPECIFICATIONS AND DETAILS.
 3. STRUCTURAL DESIGN OF FENCE POSTS AND FOUNDATIONS TO BE PROVIDED BY FENCE SUPPLIER. STRUCTURAL 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.

Westwood

CHAIN-LINK SECURITY FENCE (WILDLIFE FRIENDLY OPTION)

NOT TO SCALE

FN-10

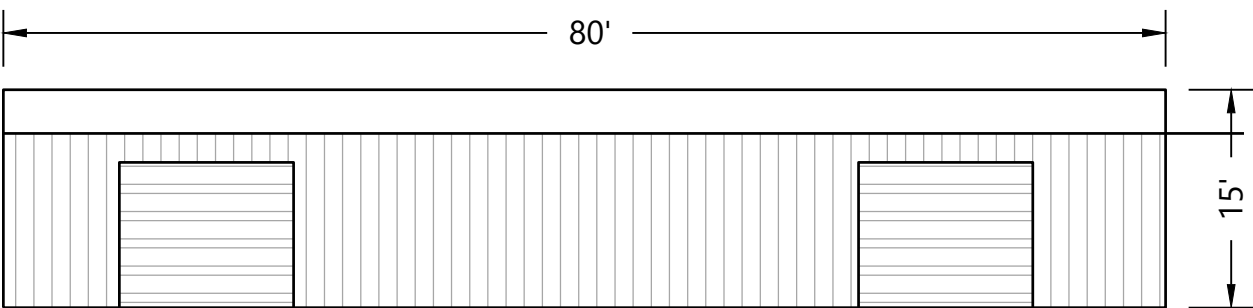


- NOTE:
1. CONSTRUCT THE LENGTH OF EACH REACH SO THAT THE CHANGE IN BASE ELEVATION ALONG THE REACH DOES NOT EXCEED 1/3 THE HEIGHT OF THE LINEAR BARRIER. IN NO CASE SHALL THE REACH LENGTH EXCEED 500'.
 2. THE LAST 8'-0" OF FENCE SHALL BE TURNED UP SLOPE.
 3. STAKE DIMENSIONS ARE NOMINAL.
 4. DIMENSION MAY VARY TO FIT FIELD CONDITION.
 5. STAKES SHALL BE SPACED AT 8'-0" MAXIMUM AND SHALL BE POSITIONED ON DOWNSTREAM SIDE OF FENCE.
 6. STAKES TO OVERLAP AND FENCE FABRIC TO FOLD AROUND THE TWO STAKES ONE FULL TURN AND SECURED WITH 4 STAPLES.
 7. STAKES SHALL BE DRIVEN TIGHTLY TOGETHER TO PREVENT POTENTIAL FLOW-THROUGH OF SEDIMENT AT JOINT. THE TOPS OF THE STAKES SHALL BE SECURED WITH WIRE.
 8. FOR END STAKE, FENCE FABRIC SHALL BE FOLDED AROUND TWO STAKES ONE FULL TURN AND SECURED WITH 4 STAPLES.
 9. MINIMUM 4 STAPLES PER STAKE. DIMENSIONS SHOWN ARE TYPICAL.
 10. CROSS BARRIERS SHALL BE A MINIMUM OF 1/3 AND A MAXIMUM 1/2 THE HEIGHT OF THE LINEAR BARRIER.
 11. MAINTENANCE OPENINGS SHALL BE CONSTRUCTED IN A MANNER TO ENSURE SEDIMENT REMAINS BEHIND SILT FENCE.
 12. JOINING SECTIONS SHALL NOT BE PLACED AT SUMP LOCATIONS.

Westwood

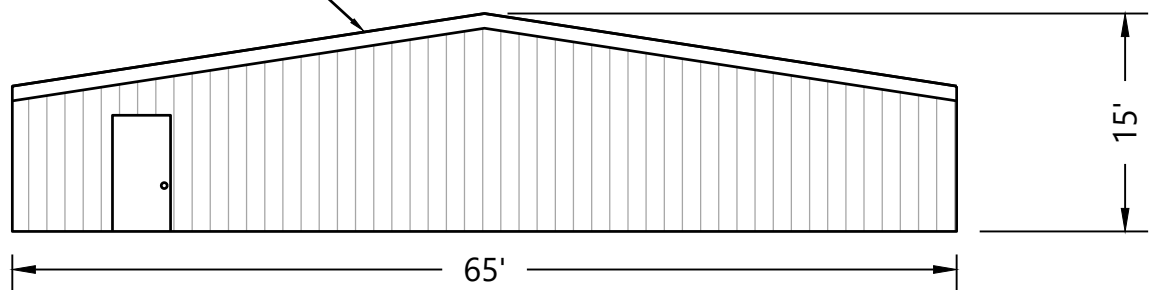
SILT FENCE

SB-1



FRONT VIEW

OPERATIONS AND MAINTENANCE
BUILDING (UNINHABITED)



SIDE VIEW

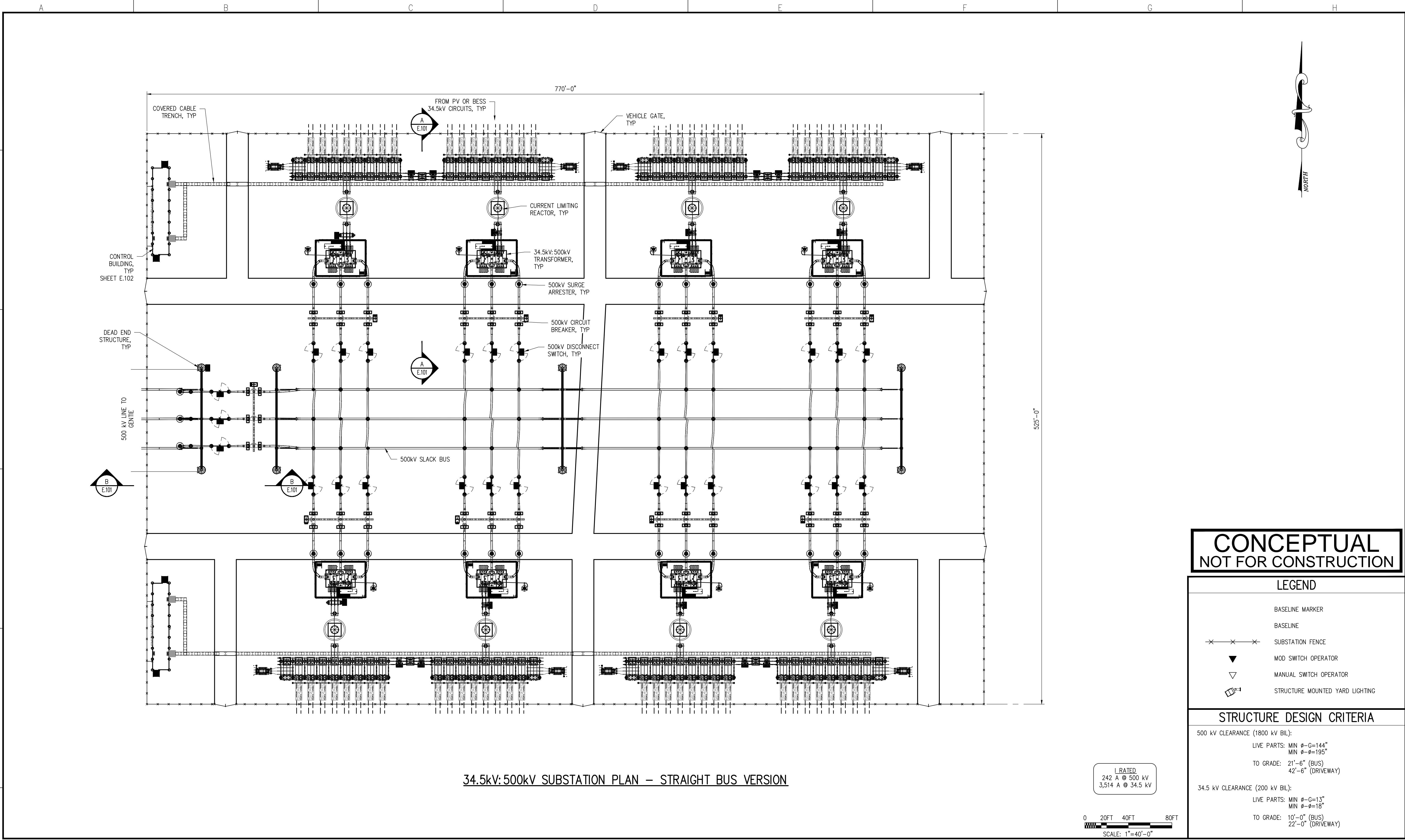
NOTE: UP TO TWO (2) OF THESE BUILDINGS, OR THE EQUIVALENT SQUARE FOOTAGE, MAY BE REQUIRED FOR THE PROJECT.

Westwood

TYPICAL O&M BUILDING

NTS

BD01



34.5kV:500kV SUBSTATION PLAN – STRAIGHT BUS VERSION

CONCEPTUAL
NOT FOR CONSTRUCTION

LEGEND

- BASELINE MARKER
- BASELINE
- SUBSTATION FENCE
- MOD SWITCH OPERATOR
- MANUAL SWITCH OPERATOR
- STRUCTURE MOUNTED YARD LIGHTING

STRUCTURE DESIGN CRITERIA

500 kV CLEARANCE (1800 kV BIL):
LIVE PARTS: MIN Ø-G=144"
MIN Ø-Ø=195"
TO GRADE: 21'-6" (BUS)
42'-6" (DRIVEWAY)

34.5 kV CLEARANCE (200 kV BIL):
LIVE PARTS: MIN Ø-G=13"
MIN Ø-Ø=18"
TO GRADE: 10'-0" (BUS)
22'-0" (DRIVEWAY)

1 RATED
242 A @ 500 kV
3,514 A @ 34.5 kV

0 20FT 40FT 80FT
SCALE: 1"=40'-0"

FILE LOCATION: N:\SHARED\01 ECI\INTERSECT POWER\02 PROJECTS\IP-00X DARDEN 500KV\100 CADD\110 WORKING\111 PHYSICAL\CEC DRAWINGS\E.100.1 & 2.DWG LAST SAVED BY: JCVanek 10/11/2023 2:22 PM PLOTTED BY: John C. Vanek 10/11/2023 3:04 PM Tab:E.100.1



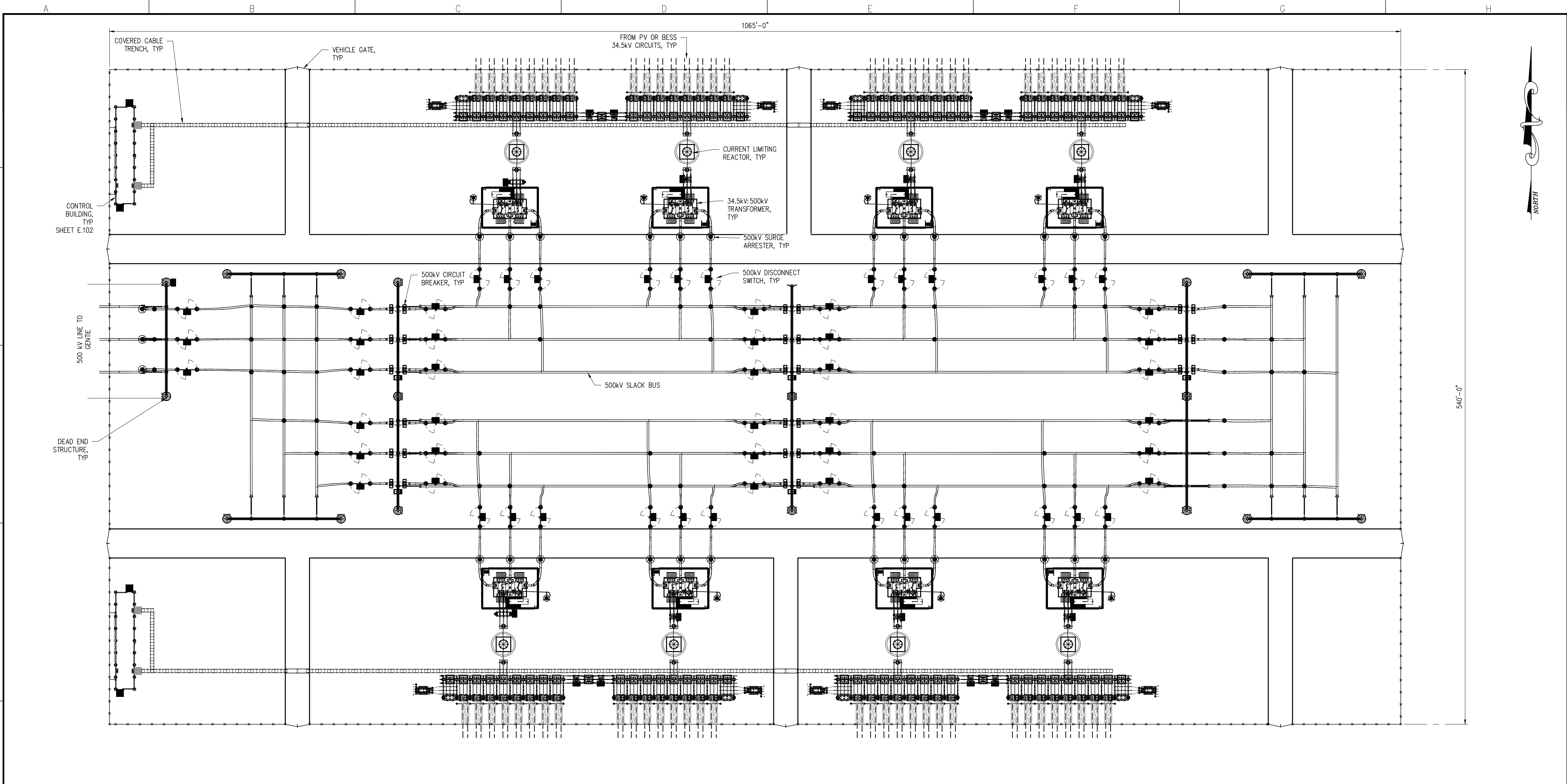
**ELECTRICAL
CONSULTANTS, INC.**
BILLINGS, MONTANA

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A	PRELIMINARY	09/29/23	JCV	MAG
NO	REVISION	DATE	BY	APR

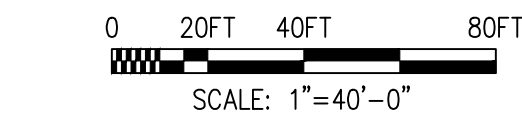


ENGINEERING RECORD		DATE
DRAWN	VANEK	09/23
DESIGNED	GROFF	09/23
CHECKED		
APPROVED		
DWG SCALE: 1"=40'-0"		PLT SCALE: 1:1

DARDEN PROJECT 34.5 – 500 kV SUBSTATION STRAIGHT BUS VERSION – PLAN	
DWG. NAME: E.100.1	REVISION NO : 0



34.5kV:500kV SUBSTATION PLAN – RING BUS VERSION



L RATED
242 A @ 500 kV
3,514 A @ 34.5 kV

CONCEPTUAL
NOT FOR CONSTRUCTION

LEGEND

- BASELINE MARKER
- BASELINE
- SUBSTATION FENCE
- MOD SWITCH OPERATOR
- MANUAL SWITCH OPERATOR
- STRUCTURE MOUNTED YARD LIGHTING

STRUCTURE DESIGN CRITERIA

500 kV CLEARANCE (1800 kV BIL):
LIVE PARTS: MIN $\phi-G=144"$
MIN $\phi=195"$
TO GRADE: 21'-6" (BUS)
42'-6" (DRIVEWAY)

34.5 kV CLEARANCE (200 kV BIL):
LIVE PARTS: MIN $\phi-G=13"$
MIN $\phi=18"$
TO GRADE: 10'-0" (BUS)
22'-0" (DRIVEWAY)

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BILLINGS, MONTANA

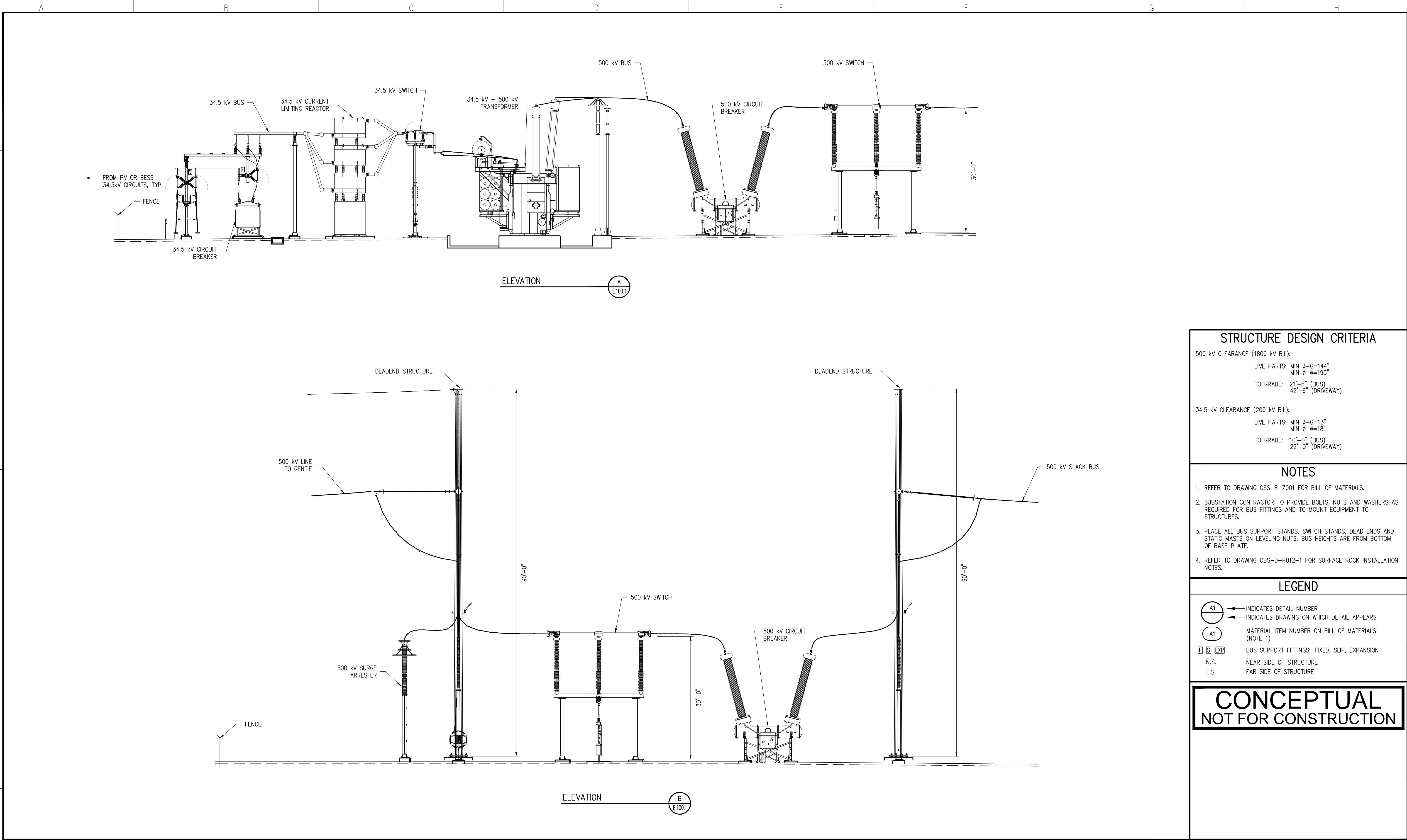
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A	PRELIMINARY	09/29/23	JCV	MAG
NO	REVISION	DATE	BY	APR



ENGINEERING RECORD		DATE
DRAWN	VANEK	09/23
DESIGNED	GROFF	09/23
CHECKED		
APPROVED		
DWG SCALE: 1"=40'-0"	PLT SCALE: 1:1	

DARDEN PROJECT
34.5 – 500 kV SUBSTATION
RING BUS VERSION – PLAN

DWG. NAME: E.100.2 REVISION NO : 0



STRUCTURE DESIGN CRITERIA

500 kV CLEARANCE (1800 kV BIL):
LIVE PARTS: MIN Ø-G=144"
MIN Ø-Ø=195"
TO GRADE: 21'-6" (BUS)
42'-6" (DRIVEWAY)

34.5 kV CLEARANCE (200 kV BIL):
LIVE PARTS: MIN Ø-G=13"
MIN Ø-Ø=18"
TO GRADE: 10'-0" (BUS)
22'-0" (DRIVEWAY)

NOTES

1. REFER TO DRAWING OSS-B-2001 FOR BILL OF MATERIALS.

2. SUBSTATION CONTRACTOR TO PROVIDE BOLTS, NUTS AND WASHERS AS REQUIRED FOR BUS FITTINGS AND TO MOUNT EQUIPMENT TO STRUCTURES.

3. PLACE ALL BUS SUPPORT STANDS, SWITCH STANDS, DEAD ENDS AND STATIC MASTS ON LEVELING NUTS. BUS HEIGHTS ARE FROM BOTTOM OF BASE PLATE.

4. REFER TO DRAWING OBS-D-P012-1 FOR SURFACE ROCK INSTALLATION NOTES.

LEGEND

⊖ A1 — INDICATES DETAIL NUMBER
— ⊖ A1 — INDICATES DRAWING ON WHICH DETAIL APPEARS

⊖ A1 MATERIAL ITEM NUMBER ON BILL OF MATERIALS (NOTE 1)

⊖ S EXP BUS SUPPORT FITTINGS: FIXED, SLIP, EXPANSION

N.S. NEAR SIDE OF STRUCTURE
F.S. FAR SIDE OF STRUCTURE

**CONCEPTUAL
NOT FOR CONSTRUCTION**

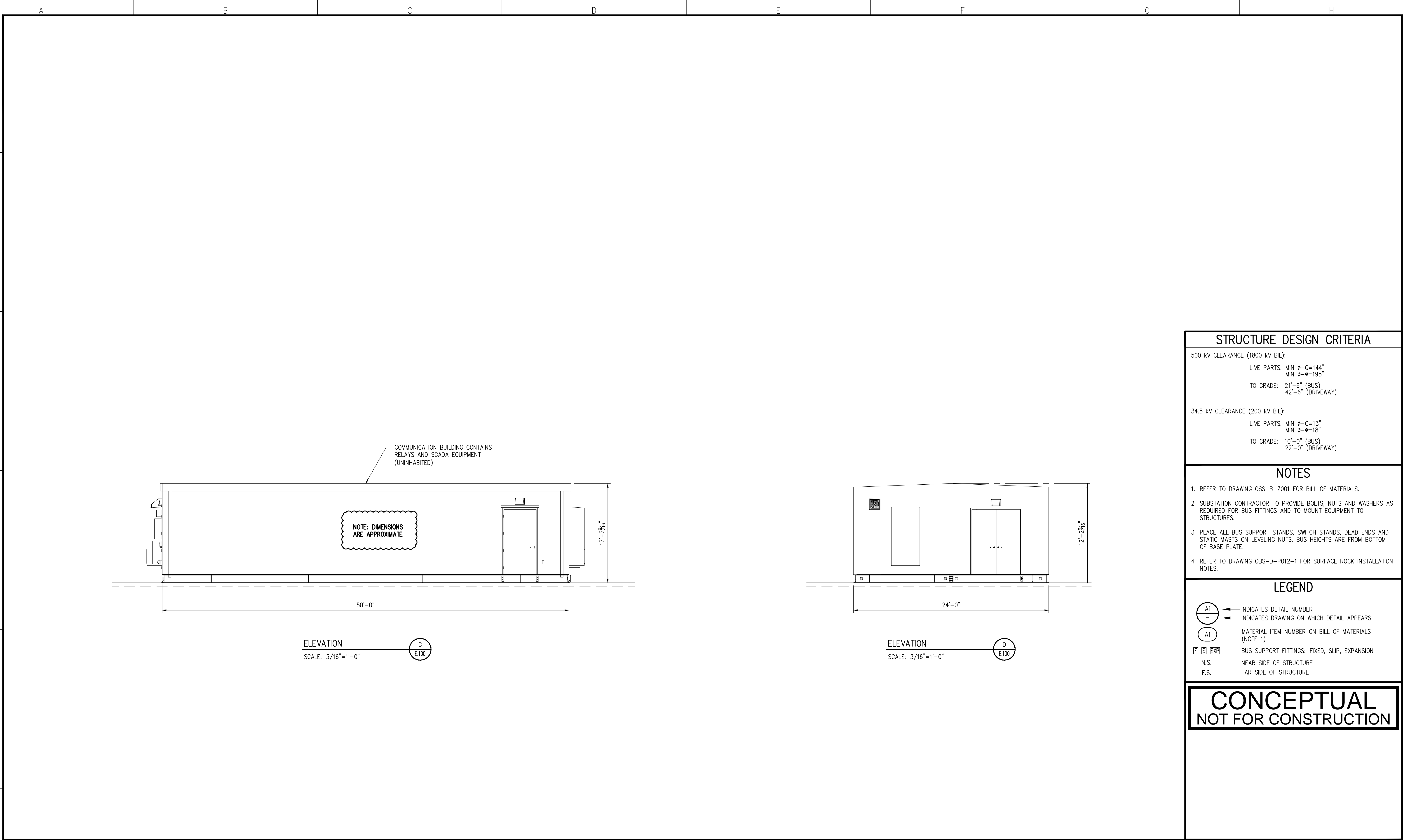
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**ELECTRICAL
CONSULTANTS, INC.**
BILLINGS, MONTANA

0	ISSUED FOR CEC SUBMITTAL	10/16/23	JCV	MAG
NO	REVISION	DATE	BY	APR

ENGINEERING RECORD		DATE
DRAWN	VANEK	10/23
DESIGNED	GROFF	10/23
CHECKED		
APPROVED		
DWG SCALE: NTS	PLT SCALE: 1:1	

DARDEN PROJECT
34.5 - 500 kV SUBSTATION
ELEVATIONS
DWG. NAME: E.101
REVISION NO : 0



FILE LOCATION: N:\SHARED\01 ECI\INTERSECT POWER\02 PROJECTS\IP-00X DARDEN 500KV\100 CADD\110 WORKING\111 PHYSICAL\CEC DRAWINGS\E.101 & 2.DWG LAST SAVED BY: JCVanek 10/11/2023 2:52 PM PLOTTED BY: John C. Vaneck 10/11/2023 3:02 PM Tab:E.102

Engineering with Distinction™

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BILLINGS, MONTANA

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NO	REVISION	DATE	BY	APR



Intersect
Power

ENGINEERING RECORD		DATE
DRAWN	VANEK	10/23
DESIGNED	GROFF	10/23
CHECKED		
APPROVED		
DWG SCALE: AS NOTED	PLT SCALE: 1:1	

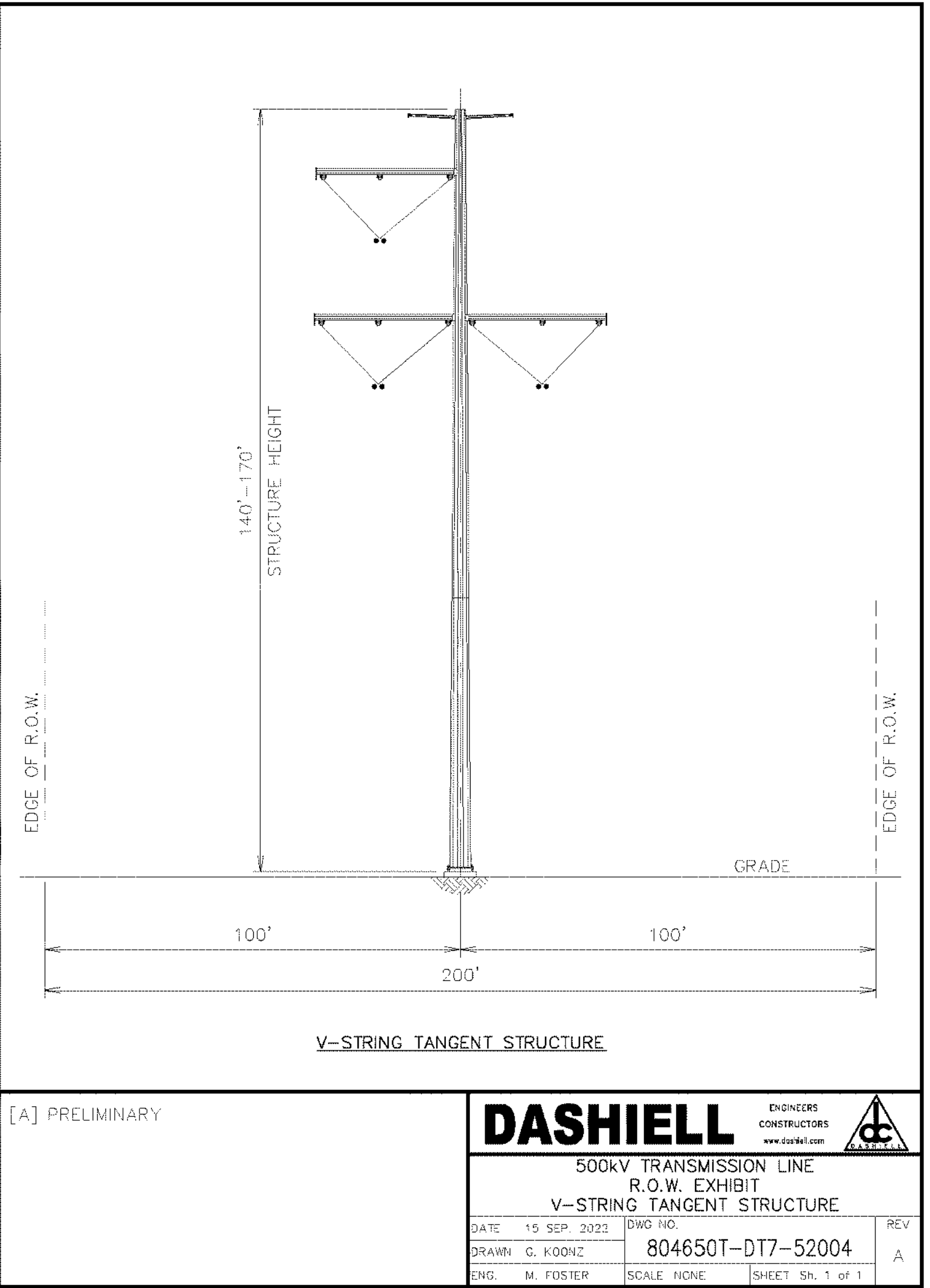
DARDEN PROJECT
34.5 – 500 kV SUBSTATION
ELEVATIONS – CONTROL BUILDING

DWG. NAME: E.102

REVISION NO : 0

IP DARDEN I, LLC
AND AFFILIATES

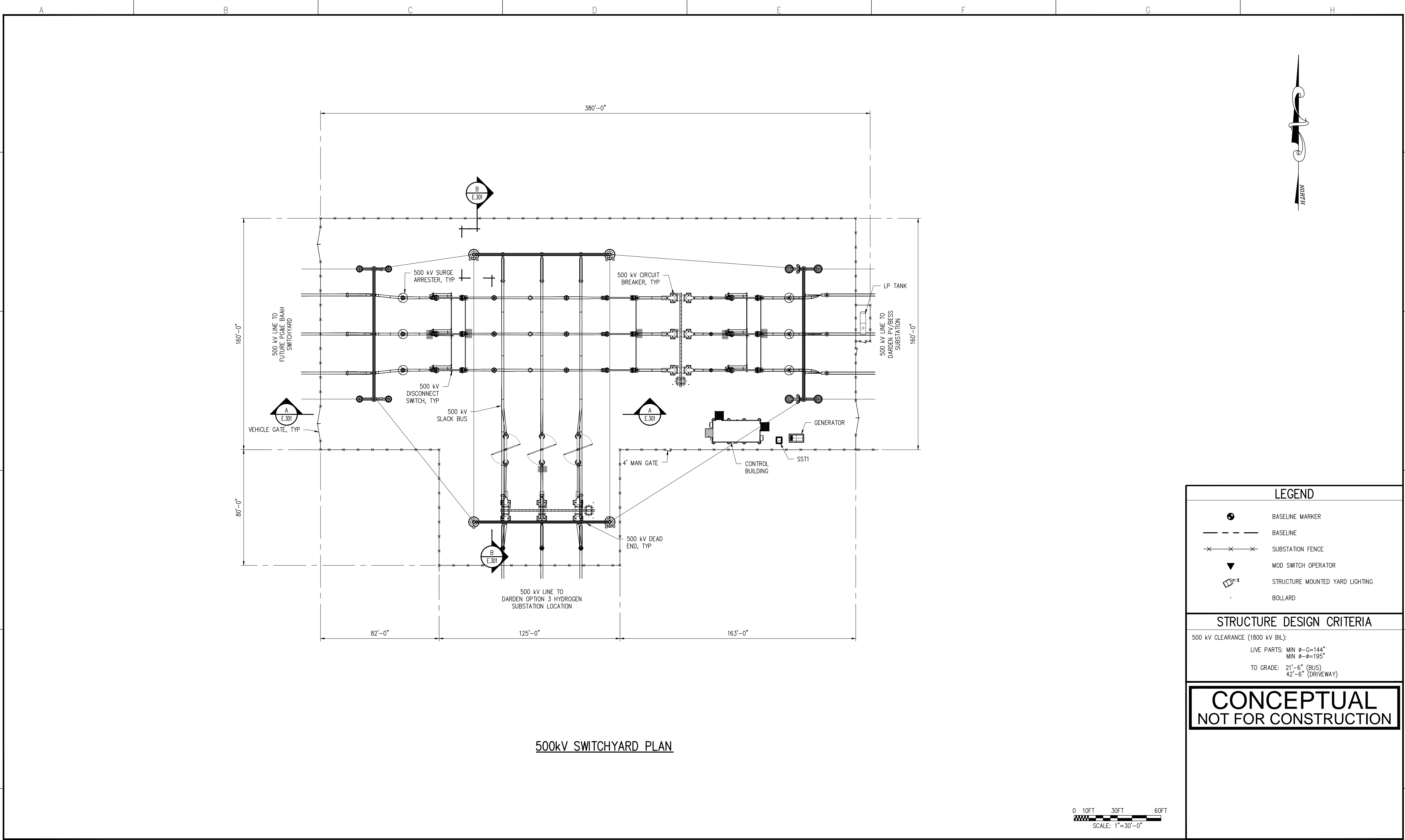
	DATE	ISSUED FOR	BY	CHK	APR
0	2023-10-16	CEC Application			



1. THE DETAILS SHOWN ABOVE WERE NOT DESIGNED OR PREPARED BY WESTWOOD. THESE DETAILS WERE SUPPLIED BY AND USED UNDER THE DIRECTION OF INTERSECT POWER. THESE DETAILS ARE INTENDED TO BE PRELIMINARY SCHEMATICS.

500kV Gentie Pole Details

DATE: 10/16/2023
SHEET: E.200 REV: 0



500kV SWITCHYARD PLAN

LEGEND

- BASELINE MARKER
- BASELINE
- SUBSTATION FENCE
- MOD SWITCH OPERATOR
- STRUCTURE MOUNTED YARD LIGHTING
- BOLLARD

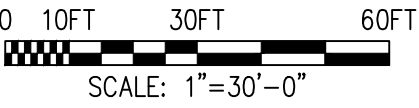
STRUCTURE DESIGN CRITERIA

500 kV CLEARANCE (1800 kV BIL):

LIVE PARTS: MIN Ø-G=144"
MIN Ø-Ø=195"

TO GRADE: 21'-6" (BUS)
42'-6" (DRIVEWAY)

CONCEPTUAL
NOT FOR CONSTRUCTION



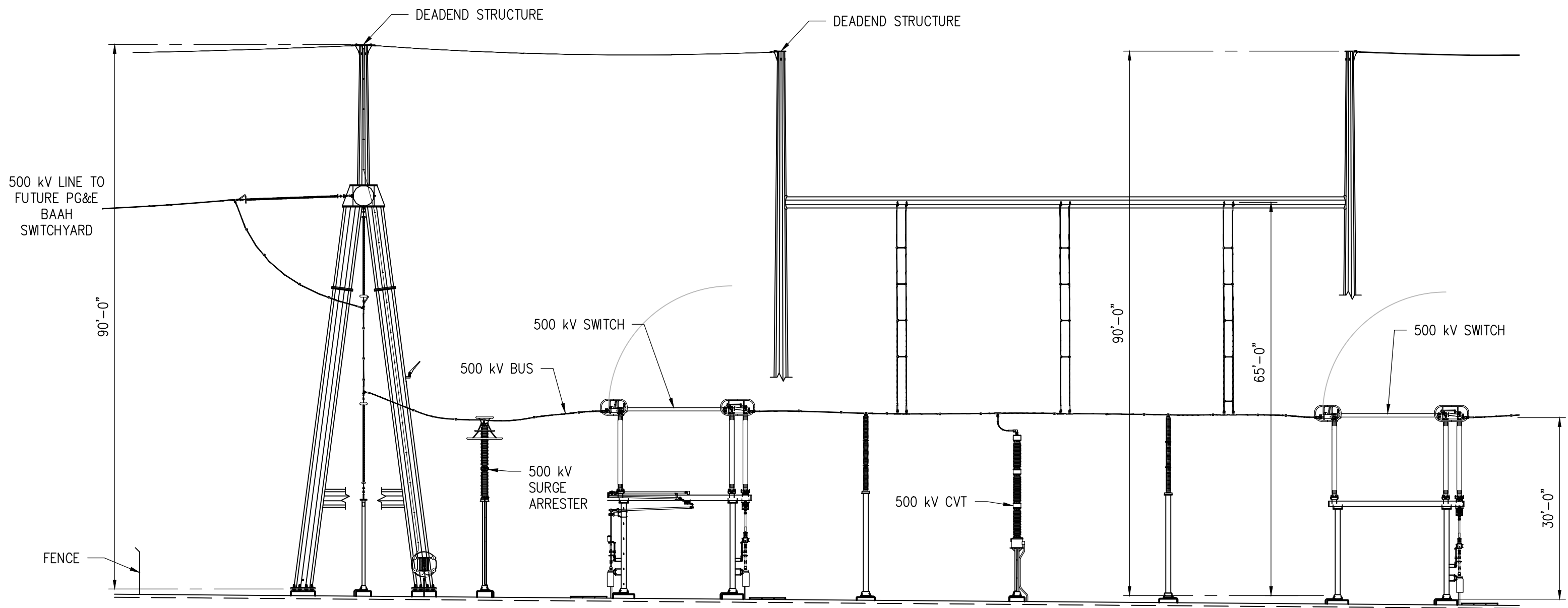
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ELECTRICAL CONSULTANTS, INC.
BILLINGS, MONTANA

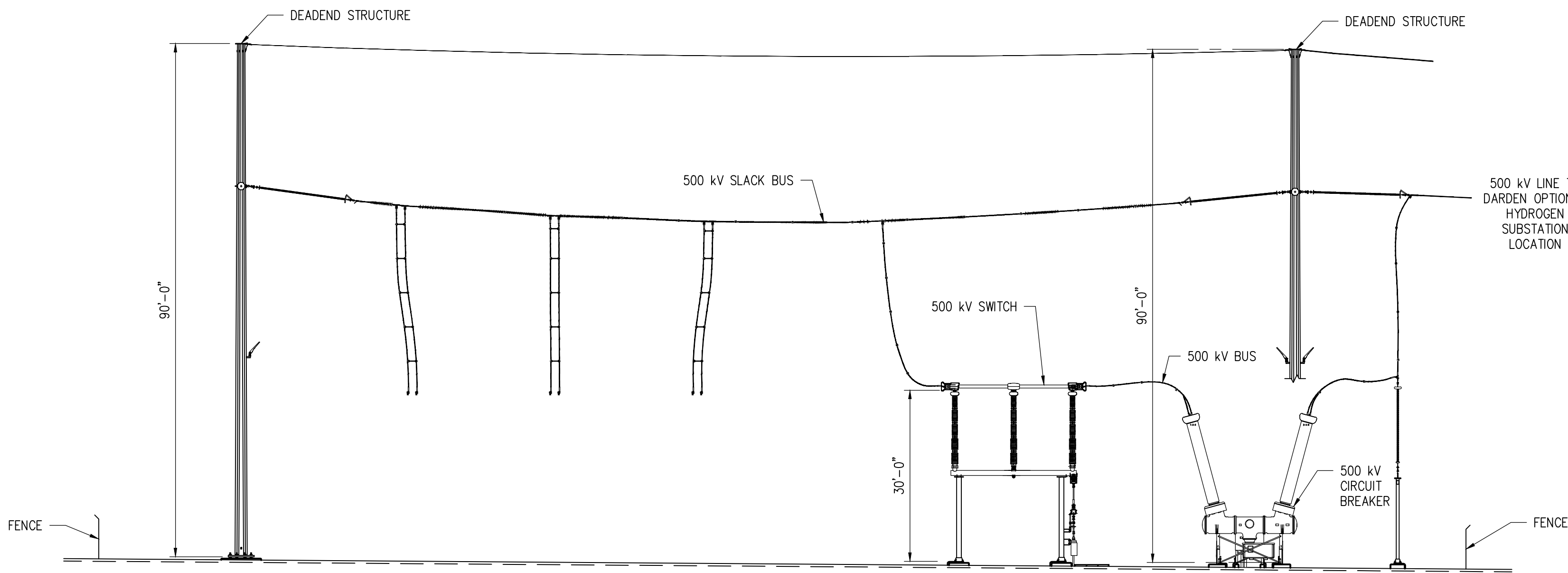
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NO	REVISION	DATE	BY	APR

ENGINEERING RECORD		DATE
DRAWN	VANEK	10/23
DESIGNED	GROFF	10/23
CHECKED		
APPROVED		
DWG SCALE: 1"=30'-0"		PLT SCALE: 1:1

DARDEN PROJECT 500 kV SWITCHYARD SWITCHYARD – PLAN	
DWG. NAME: E.300	REVISION NO : 0



ELEVATION A
SCALE: 1/16" = 1'-0"



ELEVATION B
SCALE: 1/16" = 1'-0"

STRUCTURE DESIGN CRITERIA

500 kV CLEARANCE (1800 kV BIL):
LIVE PARTS: MIN $\phi-G=144"$
MIN $\phi-\phi=195"$
TO GRADE: 21'-6" (BUS)
42'-6" (DRIVEWAY)

NOTES

- REFER TO DRAWING OSS-B-2001 FOR BILL OF MATERIALS.
- SUBSTATION CONTRACTOR TO PROVIDE BOLTS, NUTS AND WASHERS AS REQUIRED FOR BUS FITTINGS AND TO MOUNT EQUIPMENT TO STRUCTURES.
- PLACE ALL BUS SUPPORT STANDS, SWITCH STANDS, DEAD ENDS AND STATIC MASTS ON LEVELING NUTS. BUS HEIGHTS ARE FROM BOTTOM OF BASE PLATE.
- REFER TO DRAWING OSS-D-P012-1 FOR SURFACE ROCK INSTALLATION NOTES.

LEGEND

- A1 - INDICATES DETAIL NUMBER
- INDICATES DRAWING ON WHICH DETAIL APPEARS
A1 MATERIAL ITEM NUMBER ON BILL OF MATERIALS (NOTE 1)
F S EXP BUS SUPPORT FITTINGS: FIXED, SLIP, EXPANSION
N.S. NEAR SIDE OF STRUCTURE
F.S. FAR SIDE OF STRUCTURE

**CONCEPTUAL
NOT FOR CONSTRUCTION**

FILE LOCATION: N:\SHARED\01 ECI\INTERSECT POWER\02 PROJECTS\IP-00X DARDEN 500KV\100 CADD\110 WORKING\111 PHYSICAL\CEC DRAWINGS\E.301.DWG LAST SAVED BY: JCVanek 10/11/2023 1:50 PM PLOTTED BY: John C. Vanek 10/11/2023 3:05 PM Tab: E.301

ECI ELECTRICAL CONSULTANTS, INC.
BILLINGS, MONTANA

0	ISSUED FOR CEC SUBMITTAL	10/16/23	JCV	MAG
NO	REVISION	DATE	BY	APR



ENGINEERING RECORD		DATE
DRAWN	VANEK	10/23
DESIGNED	GROFF	10/23
CHECKED		
APPROVED		
DWG SCALE: 1/16" = 1'-0"	PLT SCALE: 1:1	

DARDEN PROJECT 500 kV SWITCHYARD SWITCHYARD - ELEVATIONS	
DWG. NAME: E.301	REVISION NO : 0

Y

NOTES

DWG NO

ELECTRIC TRANSMISSION
ENGINEERING & CONSTRUCTION
FOR QUESTIONS ON REV B OF THIS DWG




PRELIMINARY
03/28/2023

THIS DOCUMENT IS RELEASED
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UNDER THE AUTHORITY OF
MAR KODURU, P.E. CA E 20177 ON 02-28-2023
DASHIELL CORPORATION

GENERAL ARRANGEMENT OUTDOORS

DARDEN SWITCHING STATION
DEPARTMENT OF ENGINEERING
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA


 P.G.&E. SYSTEM
 PHASE SEQUENCE
 A-C-B

SCAN		IC	
BILL OF MATL			
DWG LIST			
SUPSDS			
SUPSD BY			
SHEET NO 1		SHEETS	
DARDEN GAO 2			REV B