

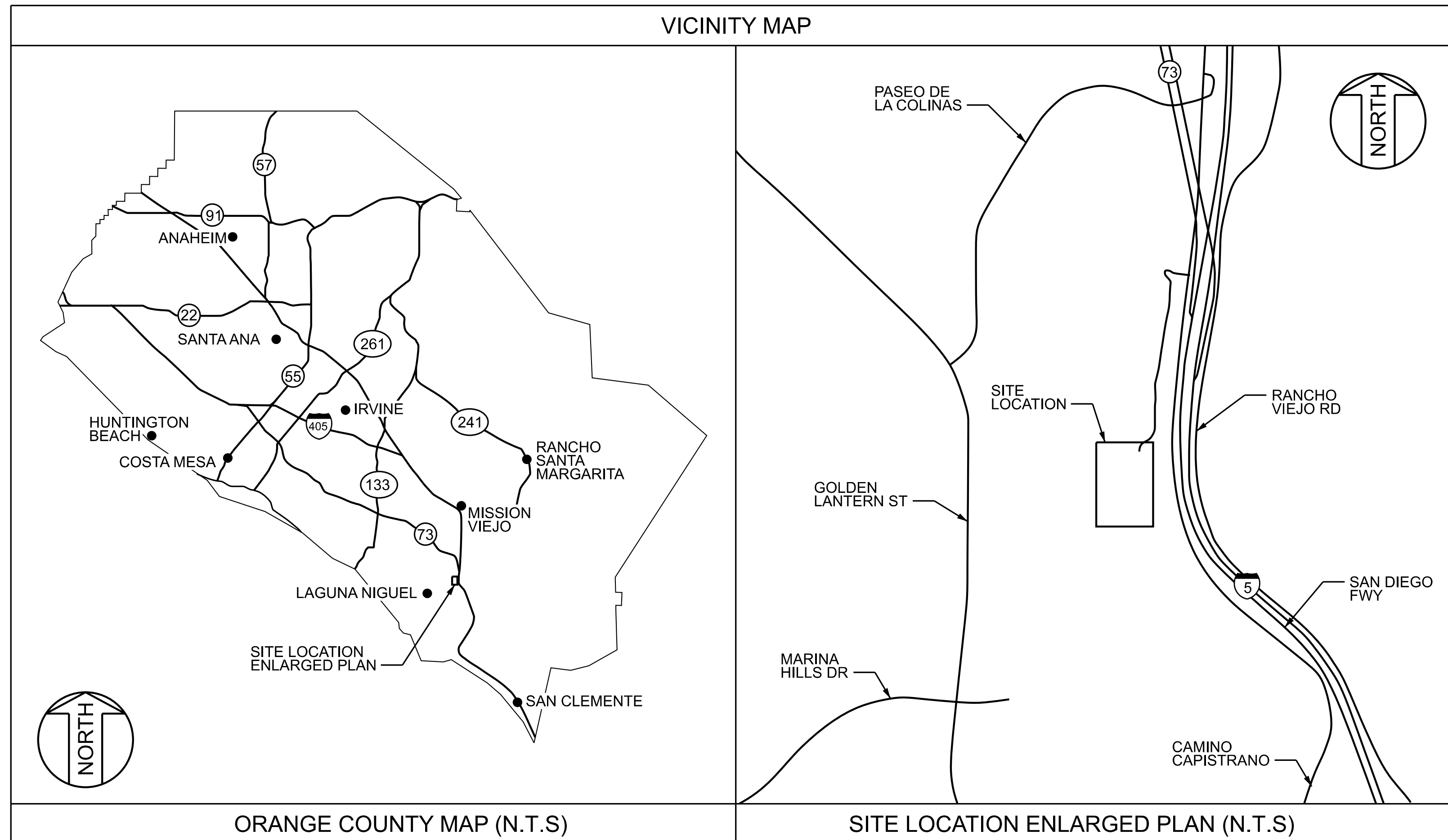
DOCKETED

Docket Number:	24-OPT-02
Project Title:	Compass Battery Energy Storage
TN #:	255577-3
Document Title:	Appendix 2A_Project Design Layout and Elevations
Description:	Project design, layout, site plans, and elevations
Filer:	Erin Phillips
Organization:	Dudek
Submitter Role:	Applicant Consultant
Submission Date:	4/8/2024 3:57:30 PM
Docketed Date:	4/8/2024

Appendix 2A

Project Design Layout and Elevations

COMPASS ORANGE COUNTY, CALIFORNIA BATTERY ENERGY STORAGE SITE



PREPARED FOR:
COMPASS
BATTERY ENERGY STORAGE LLC
C/O BOARD REACH POWER LLC
333 CLAY STREET, SUITE 2800
HOUSTON, TX 77002

PREPARED BY:
SARGENT & LUNDY
55 E. MONROE ST.
CHICAGO, IL 60603

HOLD INFORMATION		
NO.	DESCRIPTION	
CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUB-CONTRACTOR(S)) PERFORMING THE WORK.		
RELEASE INFORMATION		
REV.	DATE	DESCRIPTION
0A	12-17-2021	ISSUED FOR PERMIT
0B	04-22-2022	ISSUED FOR PERMIT
0C	06-17-2022	ISSUED FOR PERMIT
0D	03-27-2024	ISSUED FOR PERMIT
ISSUE PURPOSE:		PERMIT
SPECIFICATION:		-
PROJECT NO.:		14089-012
I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CALIFORNIA.		
CAD FILE NAME:		CMP-CS-001.DWG
PREPARED BY:		MK / JC
REVIEWED BY:		MT
APPROVED BY:		--
ANY MODIFICATION OR ADDITION TO THIS DRAWING BY AN ORGANIZATION OTHER THAN SARGENT & LUNDY, IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.		

COMPASS DRAWING LIST	
DWG NO.	DRAWING TITLE
CMP-CS-001	COVER SHEET
CMP-CS-002	GENERAL NOTES
CMP-CE-100	PROJECT SITE PLAN
CMP-CE-101	GENERAL ARRANGEMENT
CMP-CE-121	SWITCH YARD ELEVATION VIEW
CMP-CE-122	BATTERY YARD ELEVATION VIEW
CMP-CS-004	TEMPORARY EROSION AND SEDIMENT CONTROL PLAN
CMP-CS-005	TEMPORARY EROSION AND SEDIMENT CONTROL DETAILS SHEET 1
CMP-CS-006	TEMPORARY EROSION AND SEDIMENT CONTROL DETAILS SHEET 2
CMP-CS-011	DRAINAGE PLAN SHEET 1
CMP-CS-012	DRAINAGE PLAN SHEET 2
CMP-CS-013	GRADING PLAN
CMP-CS-014	GRADING SECTIONS SHEET 1
CMP-CS-015	GRADING SECTIONS SHEET 2
CMP-CS-016	GRADING SECTIONS & DETAILS
CMP-CS-022	UNDERGROUND STORMWATER DETENTION BASIN DETAILS







PERMIT ONLY
NOT FOR CONSTRUCTION

 SARGENT & LUNDY 55 EAST MONROE STREET CHICAGO, ILLINOIS 60603-5780	
PROJECT	
COMPASS ENERGY STORAGE LLC	
DRAWING TITLE	
COVER SHEET	
DRAWING NUMBER	REVISION
CMP-CS-001	0D
SHEET 1 OF 1	

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 Form GDD-0401-01-09, ANSI (Imperial) MicroStation Border - Size D - 22 x 34
 Revision 11A, Revision Date: 04-30-2010

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GENERAL NOTES			ABBREVIATIONS			SYMBOLS			HOLD INFORMATION																																																																																																																																																																																																																																																	
<p>OWNERS OF RECORD: OWNER OF PROJECT: COMPASS ENERGY STORAGE LLC C/O BROAD REACH POWER LLC OWNER OF PROJECT ADDRESS: 333 CLAY STREET, SUITE 2800, HOUSTON, TX 77002 OWNER OF PROJECT CONTACT NUMBER: 240-893-2738 OWNER OF LAND: SADDLEBACK VALLEY COMMUNITY CHURCH OWNER OF LAND ADDRESS: 29251 CAMINO CAPISTRANO, SAN JUAN CAPISTRANO, CA 92675 OWNER OF LAND CONTACT NUMBER: 949-609-8700 ENGINEER: SARGENT AND LUNDY: 55 E. MONROE, CHICAGO, IL 60603</p> <p>UTILITY COMPANIES SERVING THE PROJECT: UTILITY FOR ELECTRIC SUPPLY: SAN DIEGO GAS AND ELECTRIC UTILITY FOR ELECTRIC SUPPLY ADDRESS: 8326 CENTURY PARK COURT, SAN DIEGO, CA 92123 UTILITY FOR ELECTRIC SUPPLY CONTACT NUMBER: 800-411-7343 WATER SUPPLY: MOULTON NIGUEL WATER DISTRICT WATER SUPPLY ADDRESS: 26161 GORDON ROAD, LAGUNA HILLS, CA 92653 WATER SUPPLY CONTACT NUMBER: 949-831-2500 SEWAGE DISPOSAL: NA TELEPHONE AND CABLE: AT&T TELEPHONE AND CABLE ADDRESS: 208 S AKARD STREET, DALLAS, TX 75202 NATURAL GAS: NA</p> <p>ASSESSOR'S PARCEL NUMBER: PROJECT AREA PARCELS: 637-082-71</p> <p>LEGAL DESCRIPTION: THE LEGAL DESCRIPTIONS OF PARCELS ARE INCLUDED IN PRELIMINARY TITLE REPORT. A LEASE OPTION HAS BEEN EXECUTED WITH LANDOWNER WHICH INCLUDES ACCESS RIGHTS AND A MEMORANDUM HAS BEEN PROVIDED.</p> <p>GENERAL PLAN LAND USE:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">AREA WITHIN 100 FEET</th> <th style="width: 45%;">GENERAL PLAN USE DESIGNATION</th> <th style="width: 40%;">ZONING</th> </tr> </thead> <tbody> <tr> <td>NORTH</td> <td>LU 9.6 PC PLANNED COMMUNITY</td> <td>PLANNED COMMUNITY DISTRICT</td> </tr> <tr> <td>SOUTH</td> <td>LU 9.6 PC PLANNED COMMUNITY</td> <td>PLANNED COMMUNITY DISTRICT</td> </tr> <tr> <td>EAST</td> <td>AGRICULTURAL BUSINESS DISTRICT</td> <td>AGRICULTURAL BUSINESS DISTRICT</td> </tr> <tr> <td>WEST</td> <td>LU 1.0 GOS - GENERAL OPEN SPACE</td> <td>GOS - GENERAL OPEN SPACE</td> </tr> </tbody> </table>			AREA WITHIN 100 FEET	GENERAL PLAN USE DESIGNATION	ZONING	NORTH	LU 9.6 PC PLANNED COMMUNITY	PLANNED COMMUNITY DISTRICT	SOUTH	LU 9.6 PC PLANNED COMMUNITY	PLANNED COMMUNITY DISTRICT	EAST	AGRICULTURAL BUSINESS DISTRICT	AGRICULTURAL BUSINESS DISTRICT	WEST	LU 1.0 GOS - GENERAL OPEN SPACE	GOS - GENERAL OPEN SPACE	<p>ROAD AND GRADING</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>T/RD</td><td>TOP OF ROAD ELEVATION</td></tr> <tr><td>EL OR ELEV</td><td>GRADE ELEVATION</td></tr> <tr><td>INV</td><td>INVERT ELEVATION</td></tr> <tr><td>HP</td><td>HIGH POINT</td></tr> <tr><td>LP</td><td>LOW POINT</td></tr> <tr><td>HPFS</td><td>HIGH POINT FINISH SURFACING</td></tr> <tr><td>BC</td><td>BEGINNING OF CURVE (HORIZONTAL CURVE)</td></tr> <tr><td>EC</td><td>END OF CURVE (HORIZONTAL CURVE)</td></tr> <tr><td>PI</td><td>POINT OF INTERSECTION (HORIZONTAL CURVE)</td></tr> <tr><td>PT</td><td>POINT OF TANGENT</td></tr> <tr><td>PC</td><td>POINT OF CURVE</td></tr> <tr><td>STA</td><td>STATION</td></tr> <tr><td>VC</td><td>VERTICAL CURVE</td></tr> <tr><td>BVC</td><td>BEGINNING OF VERTICAL CURVE</td></tr> <tr><td>EVC</td><td>END OF VERTICAL CURVE</td></tr> <tr><td>PIVC</td><td>POINT OF INTERSECTION OF VERT. 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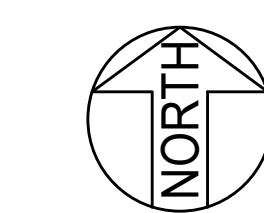
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 Form GDC-0401-01-09, ANSI (Imperial) MicroStation Border - Size D - 22 x 34
 Revision 11A, Revision Date: 04-30-2010



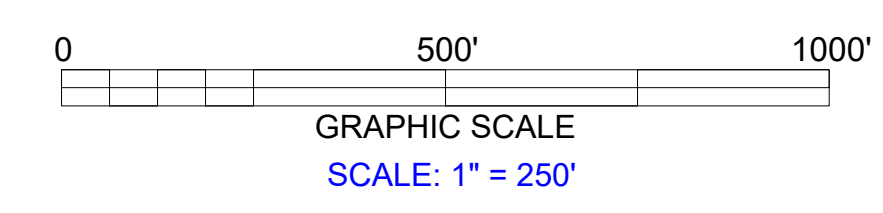
LEGEND

- 1FT TOPO LINES
- 5FT TOPO LINES
- STORMWATER DITCH AND LEVEL SPREADER
- ▭ CONCRETE TRENCH
- ⊕ HYDRANT WATER PIPE
- TEMPORARY ACCESS (TRUCK ROUTE)
- 38-FOOT ACCESS AND UTILITIES EASEMENT
- 32-FOOT ACCESS ROAD (30' PAVED)
- 10-FOOT PROPOSED EQUESTRIAN TRAIL
- 10-FOOT SECURITY & VISUAL SCREENING WALL
- CHAIN LINK FENCE
- STORMWATER BOX CULVERT
- 138KV TRANSMISSION LINE
- STORMWATER PIPE
- STORMWATER STORAGE
- PROJECT PERIMETER
- INTERIOR ACCESS ROADS

EPC VENDOR TO REROUTE WATER LINES.
 EPC VENDOR TO DESIGN WATER SUPPLY TO FIRE HYDRANTS.





PRELIMINARY



NOTES

1. PROJECT OWNER: COMPASS ENERGY STORAGE LLC
C/O BROAD REACH POWER LLC
2. PROJECT OWNER ADDRESS: 333 CLAY STREET,
SUITE 2800, HOUSTON, TX 77002
3. OWNER'S ENGINEER: SARGENT & LUNDY
55 EAST MONROE STREET, CHICAGO, IL 60603
4. UTILITIES SERVING PROJECT:
ELECTRIC - SAN DIEGO GAS & ELECTRIC
8326 CENTURY PARK COURT, SAN DIEGO, CA 92126
800-411-7343
WATER - MOULTON NIGUEL WATER DISTRICT
26161 GORDON ROAD, LAGUNA HILLS, CA 92653
949-831-2500
SEWAGE - NOT APPLICABLE
TELEPHONE AND CABLE - AT&T
208 S AKARD STREET, DALLAS, TX 75202
800-288-2020
5. LAND USE:

WITHIN 100FT	PLAN USE	ZONING
NORTH	LU 9.6 PC	PLANNED COMMUNITY DISTRICT
SOUTH	LU 9.6 PC	PLANNED COMMUNITY DISTRICT
EAST	AG BUS DIST	AGRIC BUSINESS DISTRICT
WEST	LU 1.0 GOS	GOS - GENERAL OPEN SPACE
6. EXISTING GARDENS AND ASSOCIATED ONSITE FACILITIES
WILL BE RELOCATED.
7. AREAS OF PROPOSED FACILITIES:
BESS YARD AND PROJECT SUBSTATION - 351,935 SQFT
SDG&E SWITCHYARD - 81,839 SQFT
ACCESS ROAD AND MISC. - 137,998 SQFT
TOTAL DISTURBANCE AREA - 571,772 SQFT
8. ALL DRIVE SURFACES TO BE PAVED.
9. ALL EQUIPMENT AREAS IN YARD TO BE GRAVEL.





HOLD INFORMATION		
NO.	DESCRIPTION	
CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUB-CONTRACTOR(S)) PERFORMING THE WORK.		
RELEASE INFORMATION		
REV.	DATE	DESCRIPTION
0F	09/15/2023	30% DESIGN
0G	10/17/2023	30% DESIGN
0H	10/24/2023	30% DESIGN
0I	03/27/2024	ISSUED FOR PERMIT
0E	08/08/2023	30% REVIEW
ISSUE PURPOSE:		PERMIT
SPECIFICATION:		
PROJECT NO.:		14089.012
CAD FILE NAME: CMP-SE-100_S001.DWG		
PREPARED BY: CAV		
REVIEWED BY: RDH		
APPROVED BY: MAB		
ANY MODIFICATION OR ADDITION TO THIS DRAWING BY AN ORGANIZATION OTHER THAN SARGENT & LUNDY, IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.		
CA LICENSE: C2119863		
 SARGENT & LUNDY 55 EAST MONROE STREET CHICAGO, ILLINOIS 60603-5780		
		
PROJECT		
COMPASS BATTERY ENERGY STORAGE		
DRAWING TITLE		
PROJECT SITE PLAN		
DRAWING NUMBER		REVISION
CMP-SE-100		01
SHEET	1 OF 1	

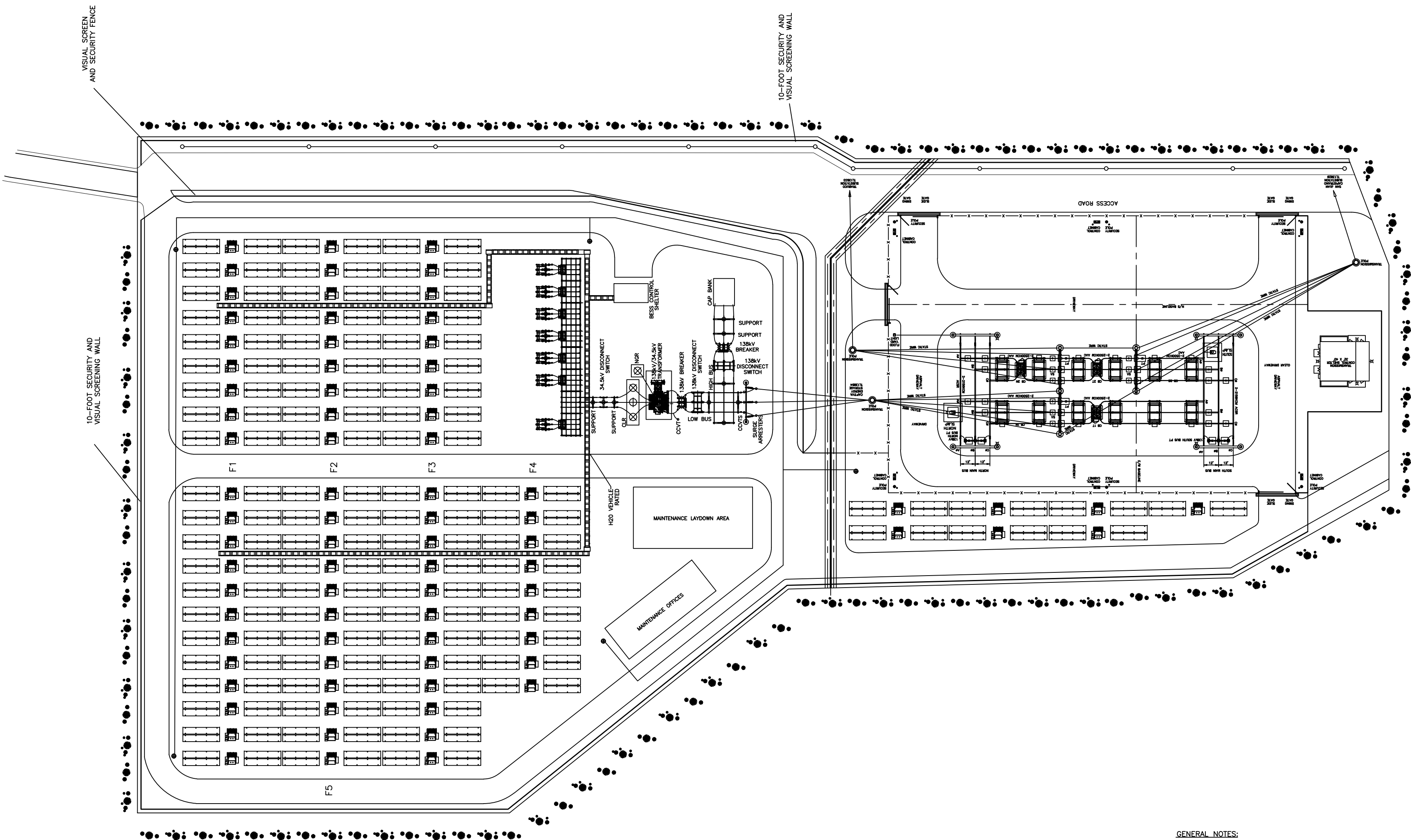
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LEGEND

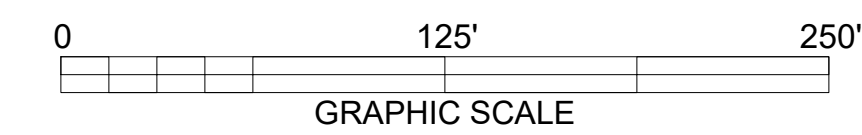
-  BATTERY/INVERTER ENCLOSURE
-  TRANSFORMER
-  FIRE HYDRANT
-  20-FOOT ACCESS ROAD
-  CHAIN LINK FENCE
-  10-FOOT SECURITY AND VISUAL SCREENING WALL
-  138KV UTILITY LINE
-  NEW LANDSCAPING
-  CONCRETE CABLE TRENCH
-  LIGHTING FIXTURE (DARK SKY COMPLIANT)



- GENERAL NOTES:**
1. ALL WORK DONE BY CONTRACTOR/INSTALLER PURSUANT TO THIS DRAWING SHALL:
 - (A) CONFORM TO THE GOVERNING CONTRACT DOCUMENTS
 - (B) BE PERFORMED EXCLUSIVELY BY ITS TRAINED, COMPETENT PERSONNEL OR WHERE PERMITTED, THAT OF ITS SUBCONTRACTORS
 - (C) COMPLY WITH ALL APPLICABLE SAFETY AND REGULATORY PROGRAMS AND PRACTICES TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING THE CONTRACTOR'S/INSTALLER'S PERSONNEL OR THAT OF ITS SUBCONTRACTOR(S) PERFORMING THE WORK.
 2. UNDERGROUND OR EMBEDDED UTILITIES (MAY) EXIST WITHIN THE AREA OF AND ADJACENT TO THE LIMITS OF THE WORK. THE LOCATION OR IDENTIFICATION OF SUCH UTILITIES HAS NOT BEEN VERIFIED BY OWNER OR BY S&L. CONTRACTOR/INSTALLER IS RESPONSIBLE FOR FIELD LOCATING AND IDENTIFYING UNDERGROUND AND EMBEDDED UTILITIES AND ANY OTHER UNDERGROUND AND EMBEDDED UTILITY DIMENSIONS.
 3. REFERENCES USED HAVE BEEN IDENTIFIED ON EXCAVATION/FOUNDATION/DEMOLITION DRAWINGS AND HAVE BEEN PROVIDED TO ASSIST THE CONTRACTOR/INSTALLER IN THE FIELD LOCATING EXISTING UTILITIES AND OTHER POTENTIAL UNDERGROUND OR EMBEDDED INTERFERENCES. THESE REFERENCES ONLY SHOW THE APPROXIMATE LOCATION OF POTENTIAL UNDERGROUND OR EMBEDDED UTILITIES AND MAY NOT INDICATE OR REFLECT ALL EXISTING UNDERGROUND OR EMBEDDED UTILITIES OR THEIR ACTUAL LOCATIONS.
 4. REFERENCES IDENTIFIED SHALL NOT SUBSTITUTE FOR THE CONTRACTOR'S/INSTALLER'S OBLIGATION TO FIELD LOCATE ANY UNDERGROUND OR EMBEDDED UTILITIES OR INTERFERENCES THAT MAY AFFECT THE WORK.
 5. DUE CAUTION SHALL BE TAKEN DURING ANY EXCAVATION/FOUNDATION/DEMOLITION WORK WITHIN THE AREA OF AND ADJACENT TO THE LIMITS OF THE WORK DUE TO POSSIBLE INTERFERENCES THAT MAY NOT BE REFLECTED ON THE REFERENCES IDENTIFIED.



PRELIMINARY



HOLD INFORMATION	
NO.	DESCRIPTION

CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUB-CONTRACTOR(S)) PERFORMING THE WORK.

RELEASE INFORMATION		
REV.	DATE	DESCRIPTION
0I	09/15/2023	30% DESIGN
0J	10/17/2023	30% DESIGN
0K	10/25/2023	30% DESIGN
0L	02/28/2024	ISSUED FOR PERMIT
0M	03/27/2024	ISSUED FOR PERMIT

ISSUE PURPOSE: PERMIT
 SPECIFICATION:
 PROJECT NO.: 14089.012

CAD FILE NAME: CMP-SE-101_S001.DWG
 PREPARED BY: CAV/EM
 REVIEWED BY: RDH
 APPROVED BY:
 ANY MODIFICATION OR ADDITION TO THIS DRAWING BY AN ORGANIZATION OTHER THAN SARGENT & LUNDY, IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.
 CA LICENSE: C2119863

SARGENT & LUNDY
 55 EAST MONROE STREET
 CHICAGO, ILLINOIS 60603-5780



PROJECT
**COMPASS
 BATTERY ENERGY STORAGE**

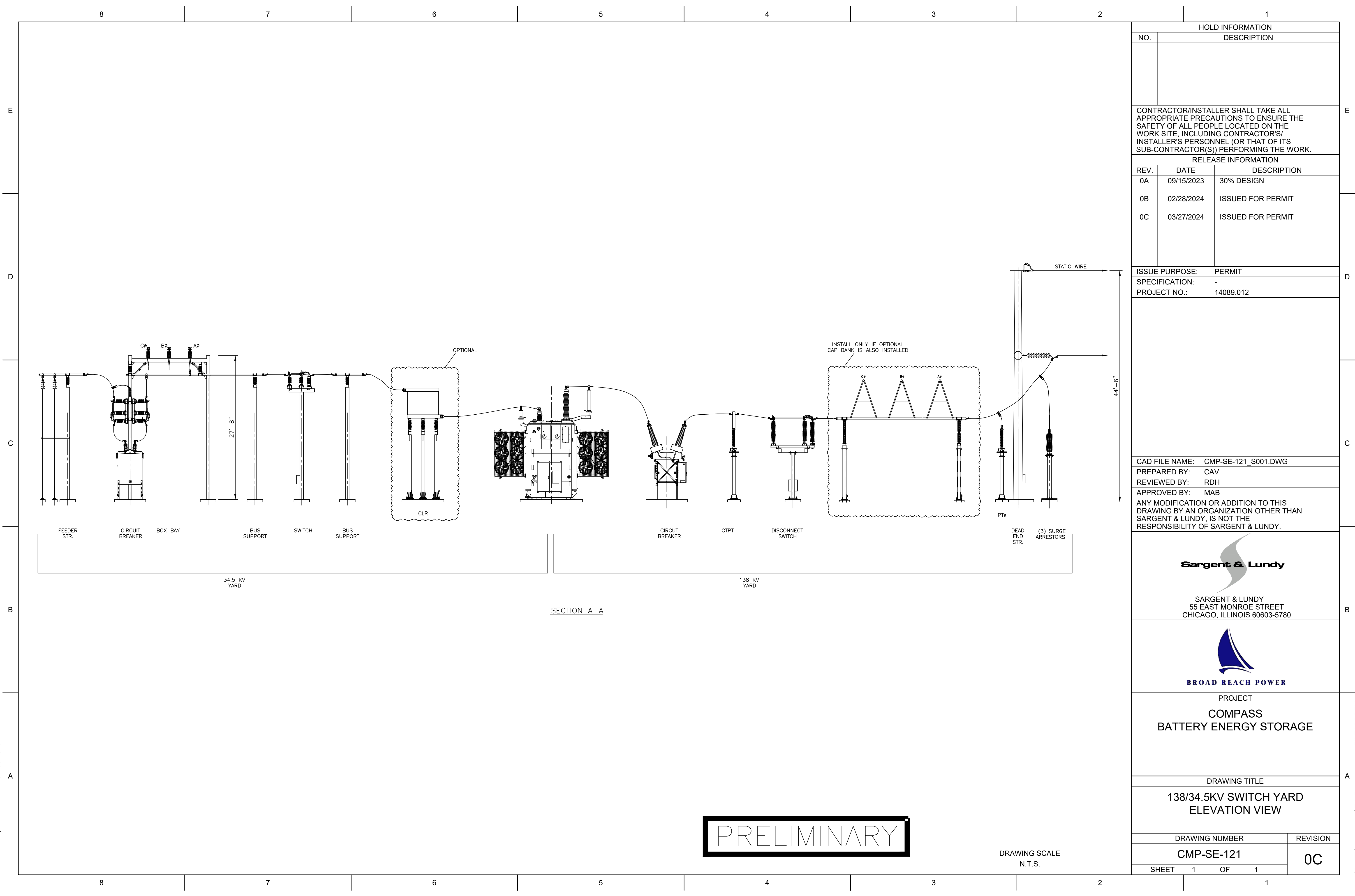
DRAWING TITLE
GENERAL ARRANGEMENT

DRAWING NUMBER	REVISION
CMP-SE-101	0M
SHEET 1 OF 1	

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 Form GDC-0401-01-09, ANSI (Imperial) MicroStation Border - Size D - 22 x 34
 Revision 11A, Revision Date: 04-30-2010



PRELIMINARY

DRAWING SCALE
N.T.S.

HOLD INFORMATION	
NO.	DESCRIPTION

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RELEASE INFORMATION		
REV.	DATE	DESCRIPTION
0A	09/15/2023	30% DESIGN
0B	02/28/2024	ISSUED FOR PERMIT
0C	03/27/2024	ISSUED FOR PERMIT

ISSUE PURPOSE: PERMIT
 SPECIFICATION: -
 PROJECT NO.: 14089.012

CAD FILE NAME: CMP-SE-121_S001.DWG
 PREPARED BY: CAV
 REVIEWED BY: RDH
 APPROVED BY: MAB

ANY MODIFICATION OR ADDITION TO THIS DRAWING BY AN ORGANIZATION OTHER THAN SARGENT & LUNDY, IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.



SARGENT & LUNDY
 55 EAST MONROE STREET
 CHICAGO, ILLINOIS 60603-5780



BROAD REACH POWER

PROJECT

COMPASS
 BATTERY ENERGY STORAGE

DRAWING TITLE

138/34.5KV SWITCH YARD
 ELEVATION VIEW

DRAWING NUMBER REVISION

CMP-SE-121 0C

SHEET 1 OF 1

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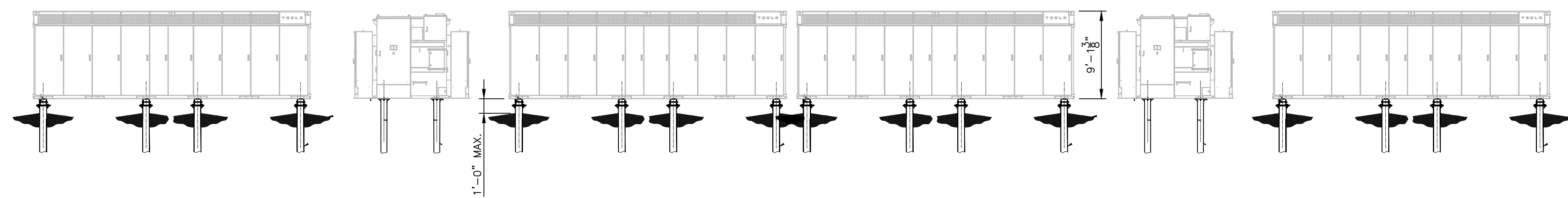
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BATTERY YARD ELEVATION

PRELIMINARY

DRAWING SCALE
N.T.S.

HOLD INFORMATION		
NO.	DESCRIPTION	
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REV.	DATE	DESCRIPTION
0A	09/15/2023	ISSUED FOR PERMIT
0B	02/28/2024	ISSUED FOR PERMIT
0C	03/27/2024	ISSUED FOR PERMIT
ISSUE PURPOSE: PERMIT		
SPECIFICATION: -		
PROJECT NO.: 14089.012		
CAD FILE NAME: CMP-SE-122_S001.DWG		
PREPARED BY: CAV		
REVIEWED BY: RDH		
APPROVED BY: MAB		
ANY MODIFICATION OR ADDITION TO THIS DRAWING BY AN ORGANIZATION OTHER THAN SARGENT & LUNDY, IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.		
 SARGENT & LUNDY 55 EAST MONROE STREET CHICAGO, ILLINOIS 60603-5780		
		
PROJECT COMPASS BATTERY ENERGY STORAGE		
DRAWING TITLE BATTERY YARD ELEVATION VIEW		
DRAWING NUMBER		
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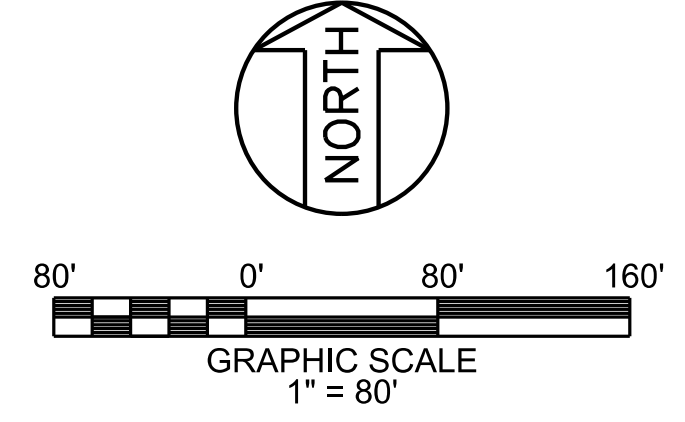
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 Form GDC-0401-01-09, ANSI (Imperial) MicroStation Border - Size D - 22 x 34
 Revision 11A, Revision Date: 04-30-2010

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 Form GDD-0401-01-09, ANSI (Imperial) MicroStation Border - Size D - 22 x 34
 Revision 11A, Revision Date: 04-30-2010



PERMIT ONLY
 NOT FOR CONSTRUCTION




- NOTES**
1. GEOTECHNICAL ENGINEERING REPORT PREPARED BY TERRACON CONSULTANTS, INC. "BROAD REACH POWER COMPASS BESS, SAN JUAN CAPISTRANO, ORANGE COUNTY, CA", NOVEMBER 3, 2021, REVISION 1.
 2. FOR GENERAL NOTES, ABBREVIATIONS AND LEGEND, SEE DRAWING CMP-CS-002.
- REFERENCE DRAWINGS**

UNDERGROUND OR EMBEDDED UTILITIES MAY BE LOCATED WITHIN OR ADJACENT TO THE AREA IN WHICH EXCAVATION, DEMOLITION, FOUNDATION, OR MODIFICATION WORK IS TO BE PERFORMED.

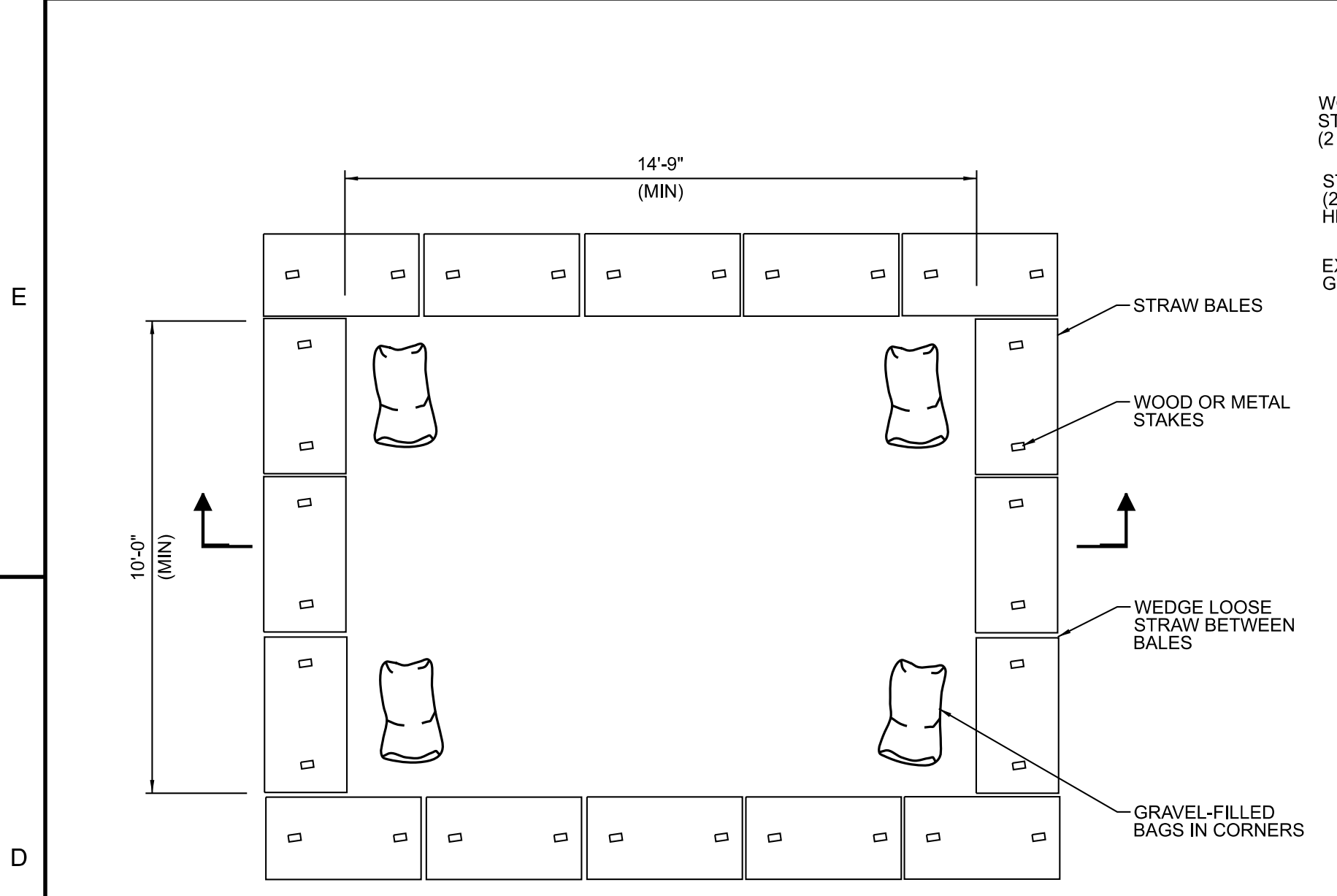
REFERENCES RELATING TO THE UNDERGROUND OR EMBEDDED UTILITIES ARE PROVIDED TO ASSIST THE CONTRACTOR/INSTALLER IN THE FIELD LOCATING THOSE UTILITIES AND OTHER POSSIBLE UNDERGROUND OR EMBEDDED INTERFERENCES WITH THE WORK.

THE CONTRACTOR/INSTALLER SHALL EXERCISE DUE CAUTION DURING ALL EXCAVATION/FOUNDATION/DEMOLITION WORK.

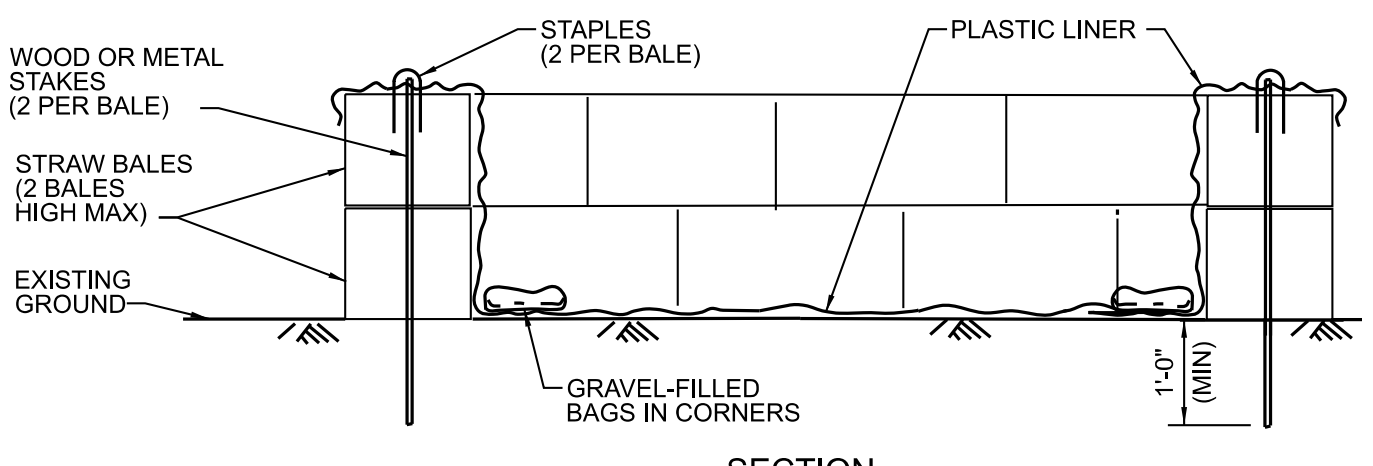
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0C	06-17-2022	ISSUED FOR PERMIT
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SPECIFICATION:		-
PROJECT NO.:		14089-012
I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CALIFORNIA.		
CAD FILE NAME:		CMP-CS-004.DWG
PREPARED BY:		JC
REVIEWED BY:		MT
APPROVED BY:		-
ANY MODIFICATION OR ADDITION TO THIS DRAWING BY AN ORGANIZATION OTHER THAN SARGENT & LUNDY, IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.		
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		COMPASS ENERGY STORAGE LLC
DRAWING TITLE		TEMPORARY EROSION AND SEDIMENT CONTROL PLAN
		DRAWING NUMBER
CMP-CS-004		REVISION
SHEET 1 OF 1		0D

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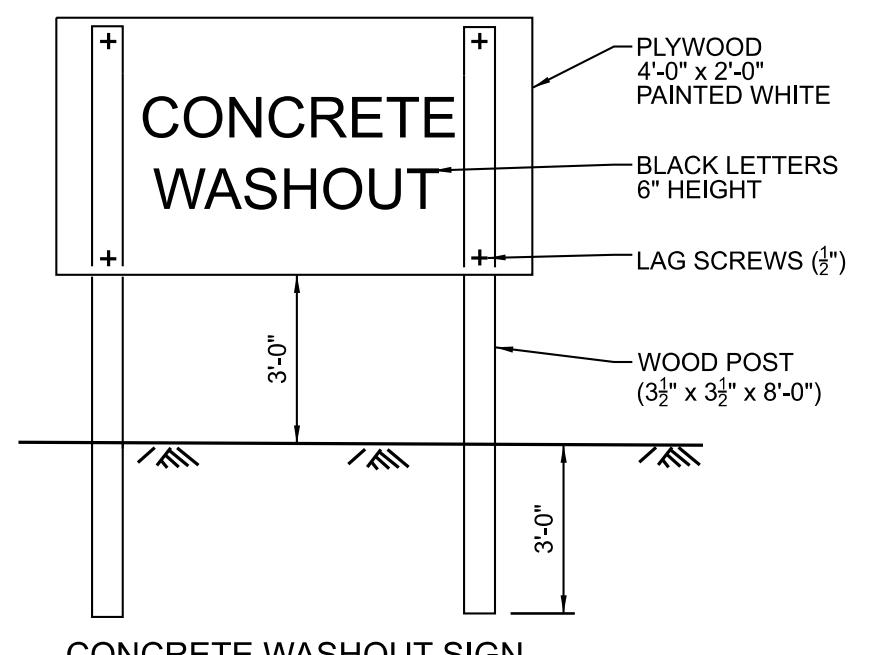
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 Revision 11A, Revision Date: 04-30-2010



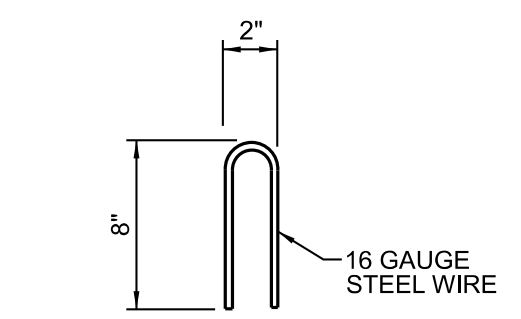
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SECTION



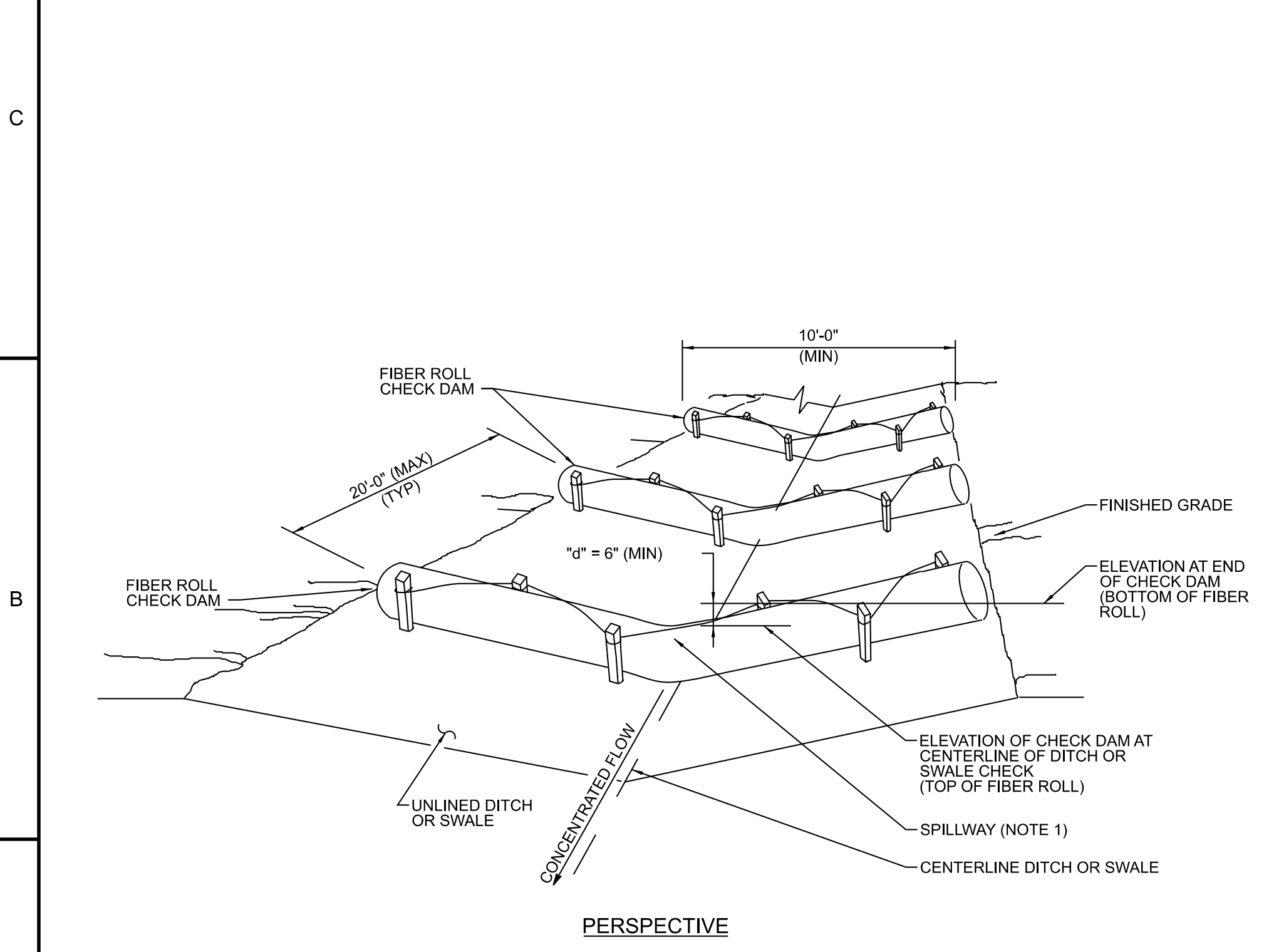
CONCRETE WASHOUT SIGN



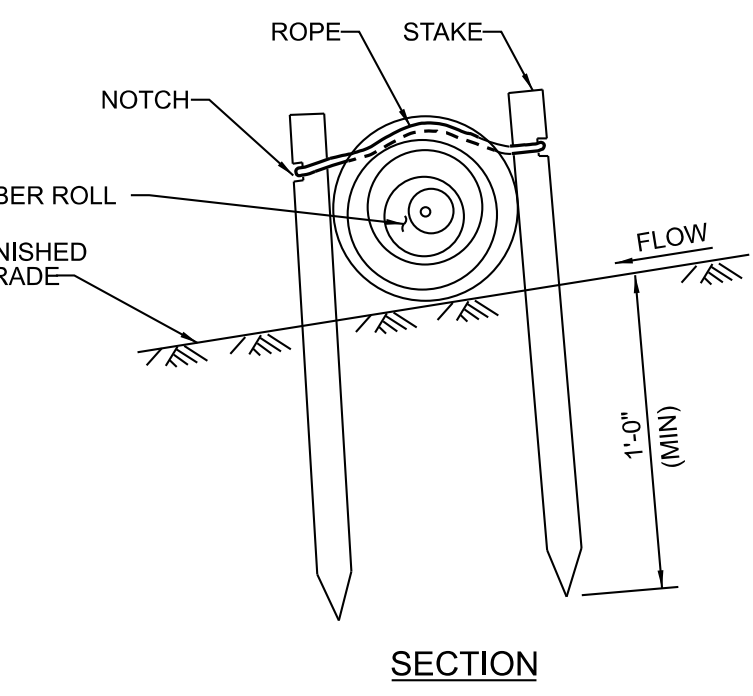
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TEMPORARY CONCRETE WASHOUT FACILITY

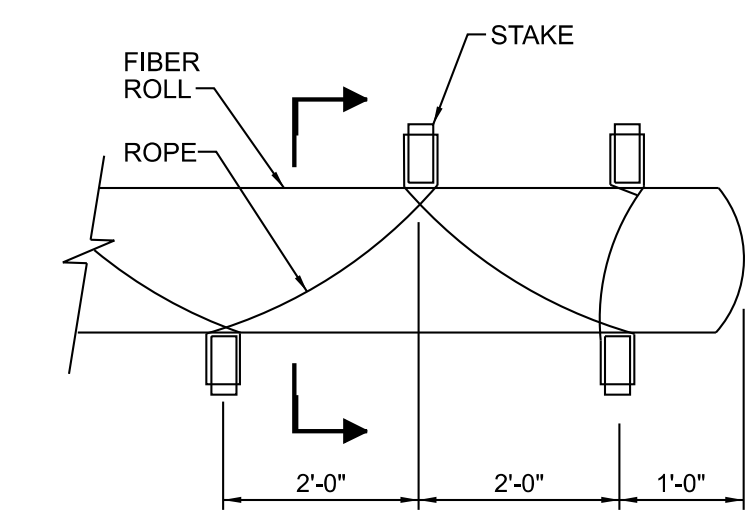
DETAIL 1
N.T.S.



PERSPECTIVE

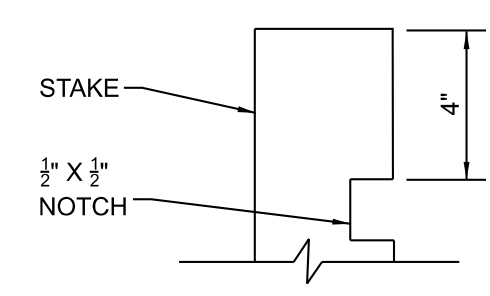


SECTION



PLAN

STAKING AND LASHING



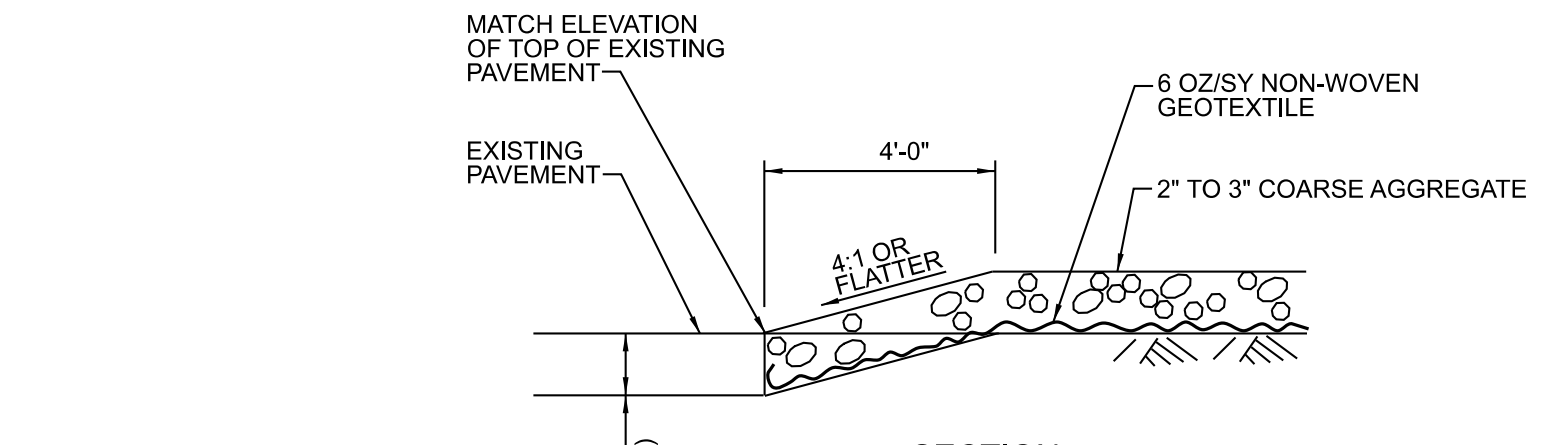
ELEVATION

SCOTCH NOTCH

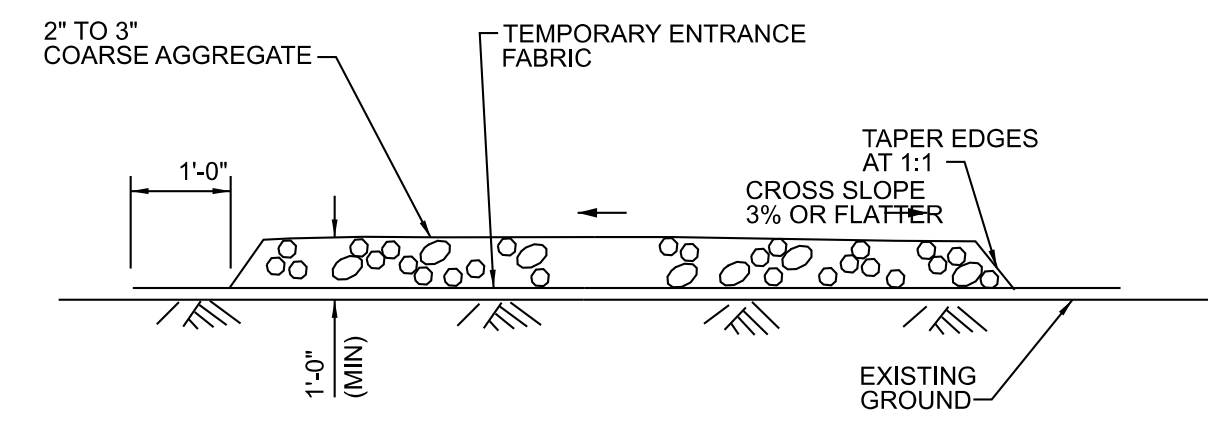
TEMPORARY CHECK DAM

DETAIL 2
N.T.S.

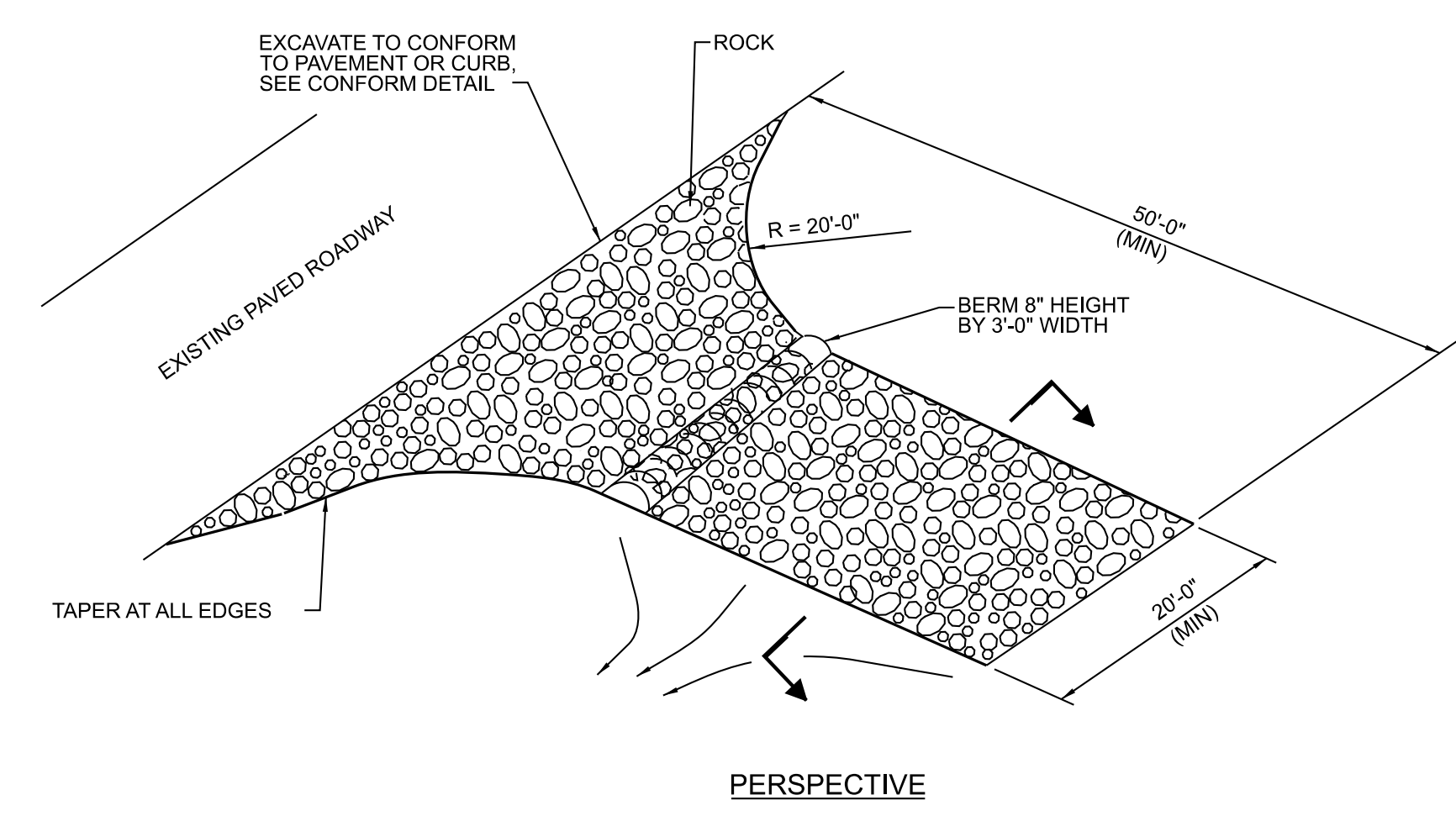
DETAIL 2 NOTES
 1. SPILLWAY DEPTH "D" SHALL BE MAINTAINED TO PREVENT FLANKING OF CONCENTRATED FLOW AROUND THE ENDS OF EACH CHECK DAM.



SECTION
CONFORM



SECTION



PERSPECTIVE

TEMPORARY CONSTRUCTION ENTRANCE

DETAIL 3
N.T.S.

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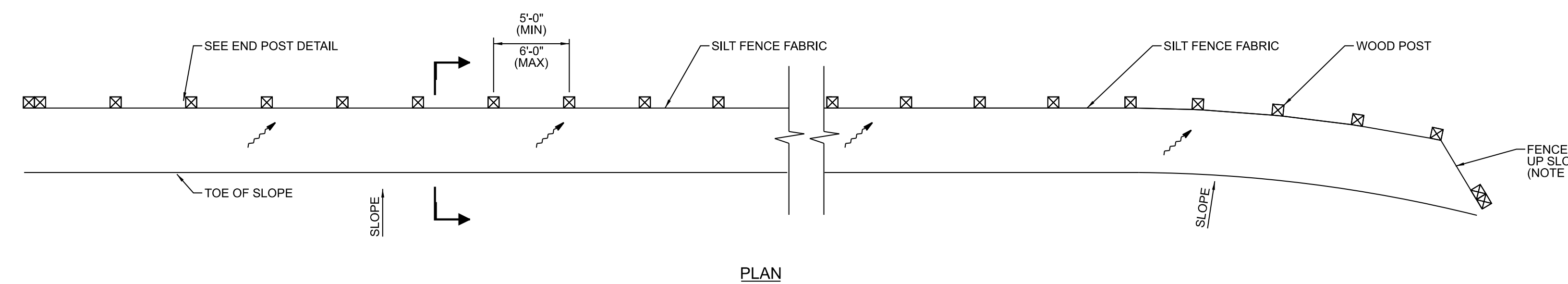
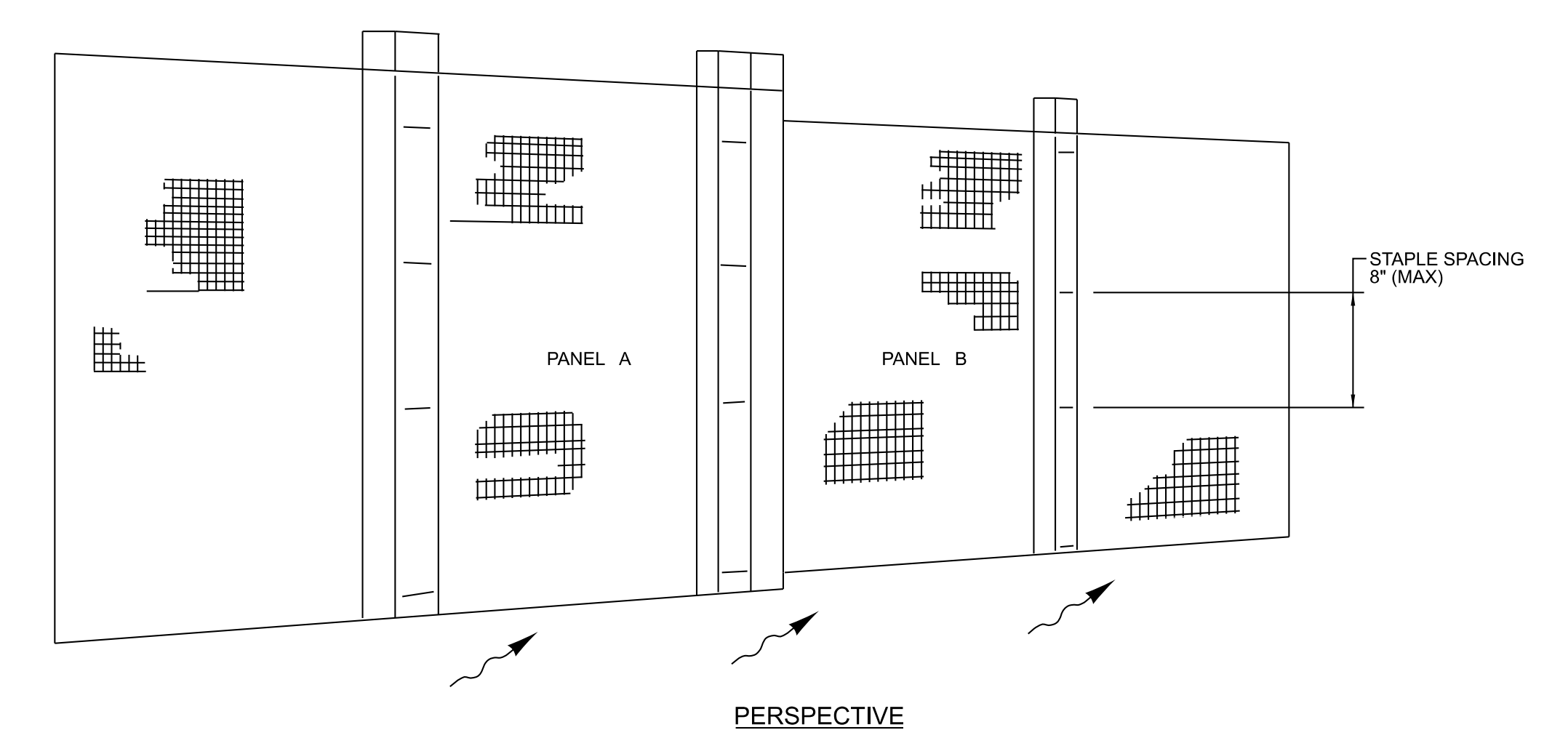
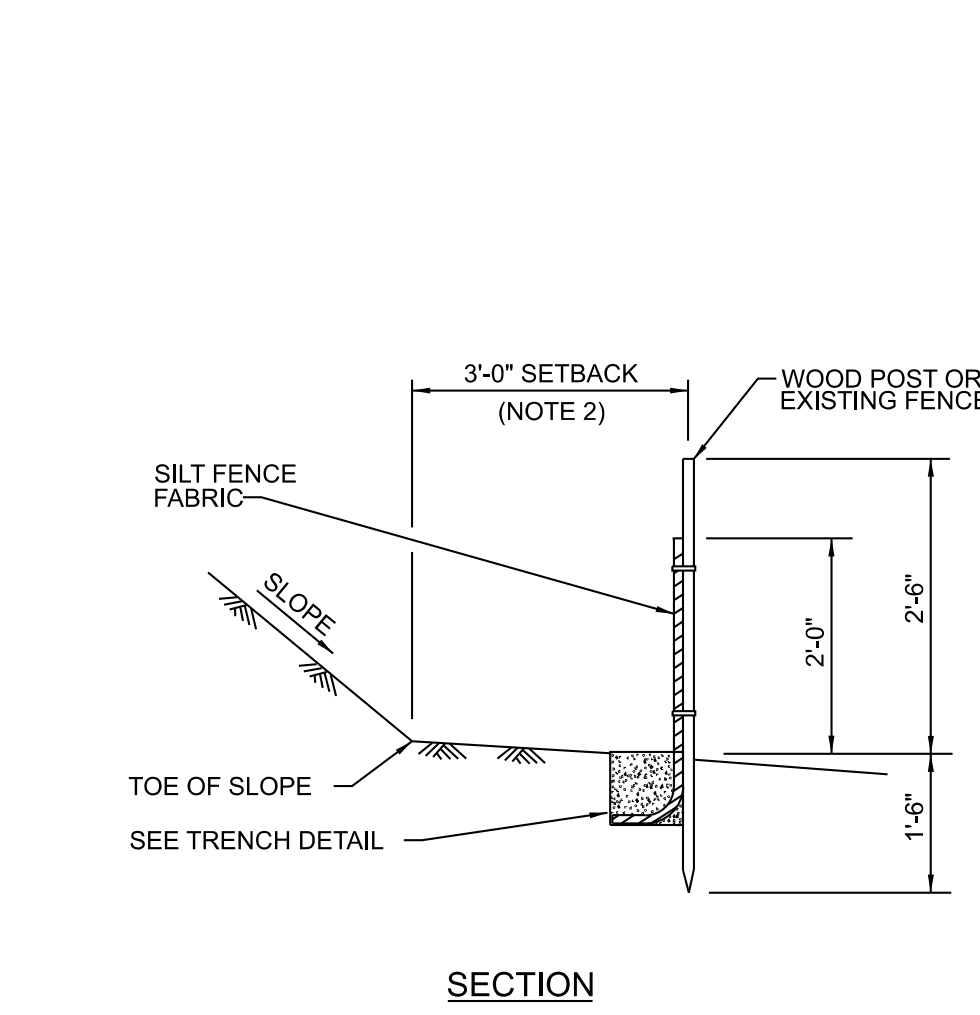
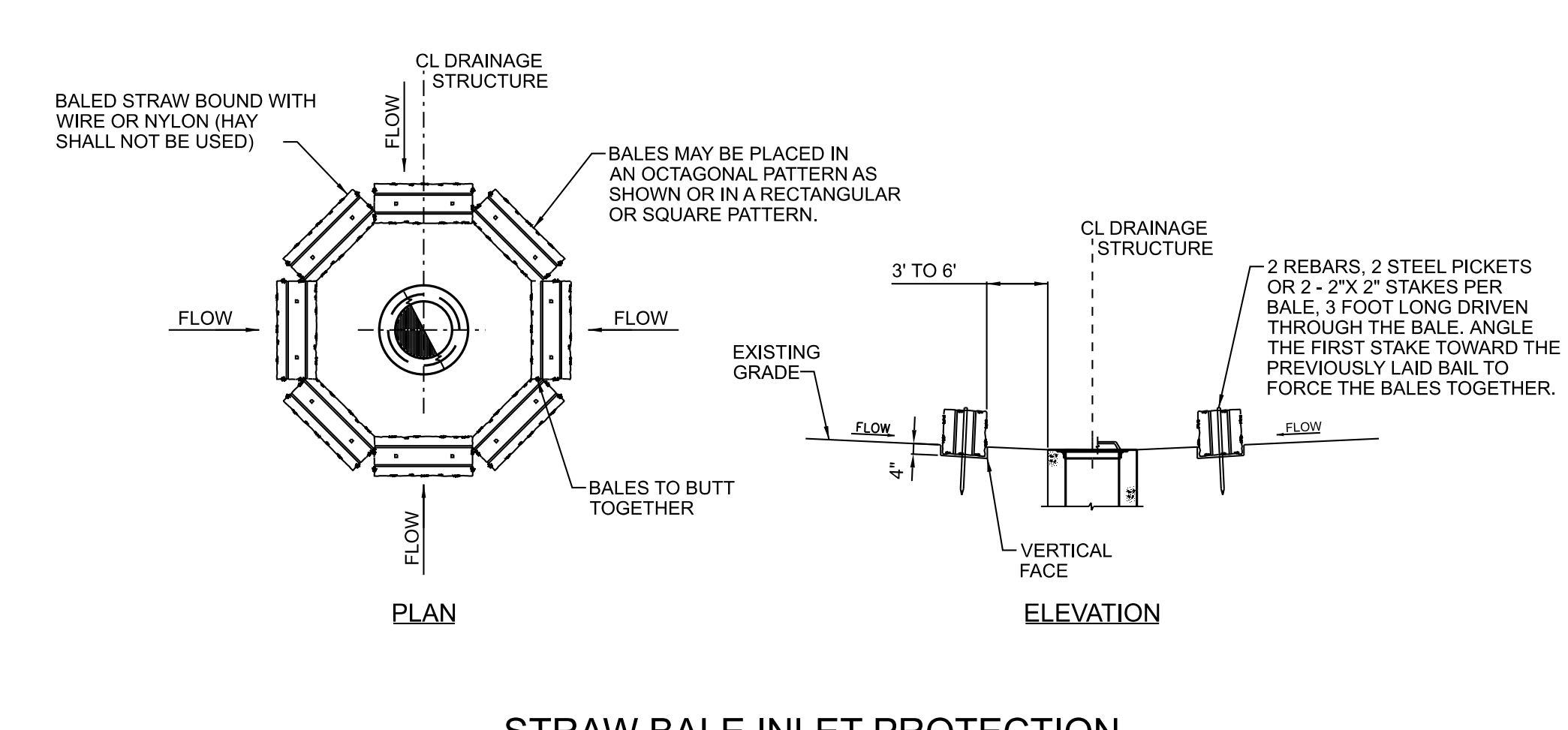
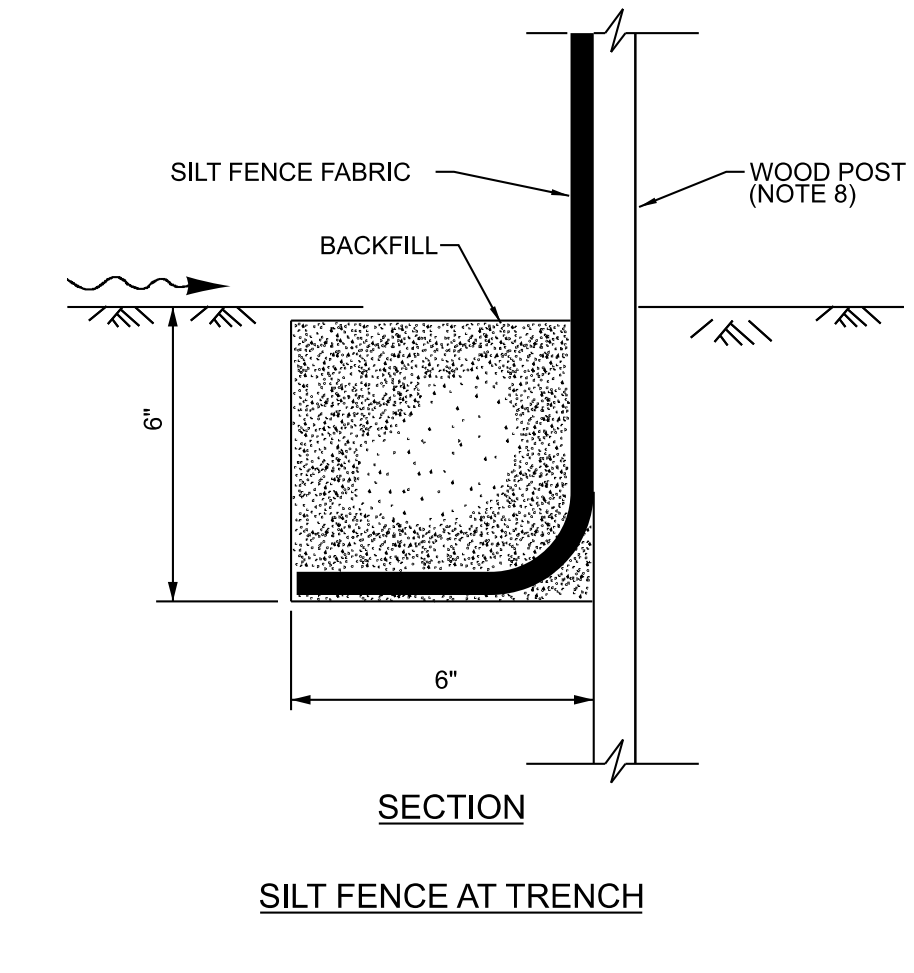
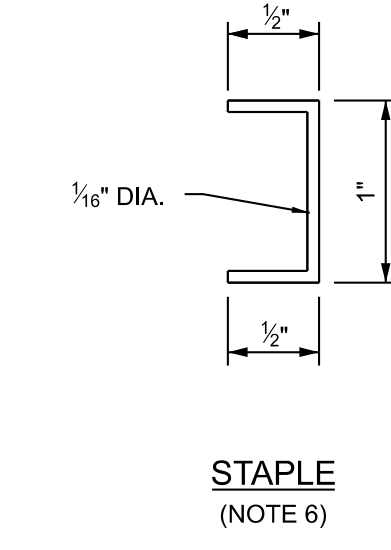
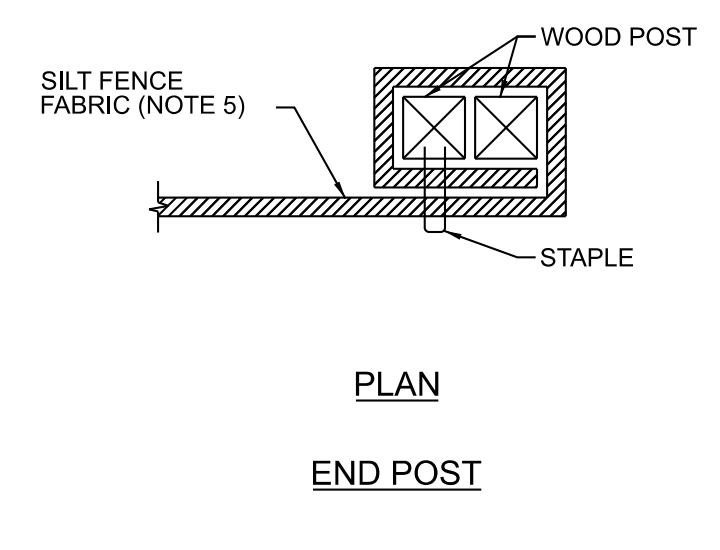
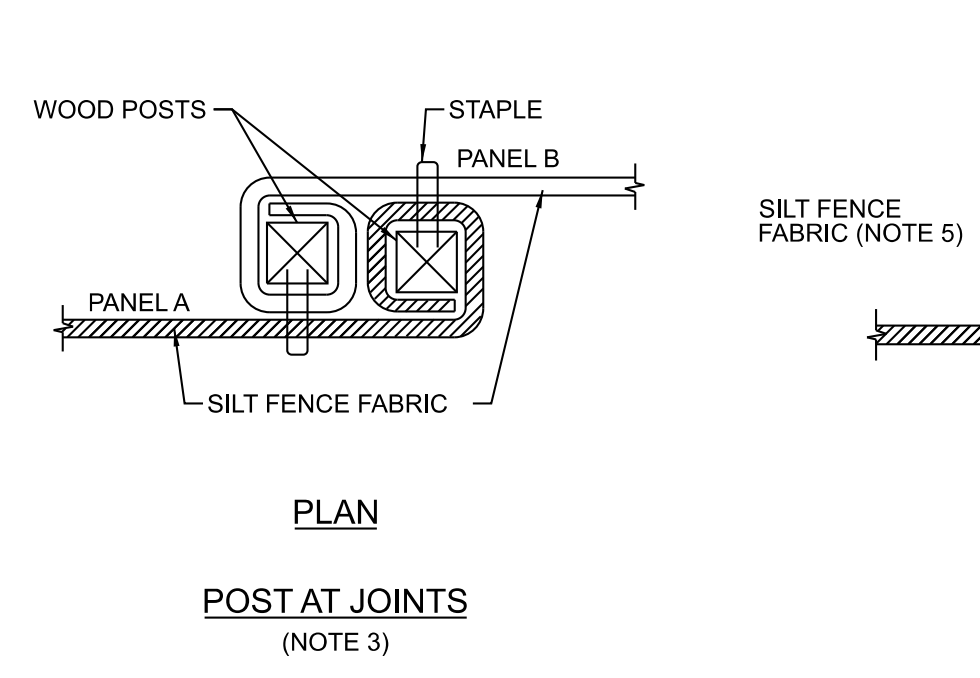
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HOLD INFORMATION		
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RELEASE INFORMATION		
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0B	04-22-2022	ISSUED FOR PERMIT
0C	06-17-2022	ISSUED FOR PERMIT
0D	03-27-2024	ISSUED FOR PERMIT
ISSUE PURPOSE:		PERMIT
SPECIFICATION:		-
PROJECT NO.:		14089-012
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CAD FILE NAME:		CMP-CS-005.DWG
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REVIEWED BY:		MT
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 SARGENT & LUNDY 55 EAST MONROE STREET CHICAGO, ILLINOIS 60603-5780		
PROJECT		
COMPASS ENERGY STORAGE LLC		
DRAWING TITLE		
TEMPORARY EROSION AND SEDIMENT CONTROL DETAILS SHEET 1		
DRAWING NUMBER		REVISION
CMP-CS-005		0D
SHEET	1 OF 1	

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- DETAIL 1 NOTES**
1. THE DOWN STREAM END OF THE TEMPORARY SILT FENCE SHALL HAVE THE LAST 8' ANGLED UP SLOPE.
 2. SETBACK DIMENSIONS MAY VARY TO FIT FIELD CONDITIONS.
 3. POSTS TO OVERLAP AND FENCE FABRIC TO FOLD AROUND EACH POST ONE FULL TURN. SECURE FABRIC WITH 4 STAPLES FOR EACH POST.
 4. POSTS SHALL BE DRIVEN TIGHTLY TOGETHER TO PREVENT POTENTIAL FLOW-THROUGH OF SEDIMENT AT THE JOINT. THE TOPS OF THE POSTS SHALL BE SECURED TO EACH OTHER WITH WIRE.
 5. FOR EACH END POST, FENCE FABRIC SHALL BE FOLDED AROUND TWO POSTS ONE FULL TURN AND SECURED WITH 4 STAPLES.
 6. MINIMUM OF 4 STAPLES SHALL BE INSTALLED PER POST. DIMENSIONS SHOWN ARE TYPICAL.
 7. MAINTENANCE OPENINGS SHALL BE CONSTRUCTED IN A MANNER TO ENSURE THAT SEDIMENT IS RETAINED BY THE TEMPORARY SILT FENCE.
 8. WOOD POST MAY NOT BE REQUIRED IF SILT FENCE FABRIC IS ATTACHED TO THE EXISTING CHAIN LINK FENCE.

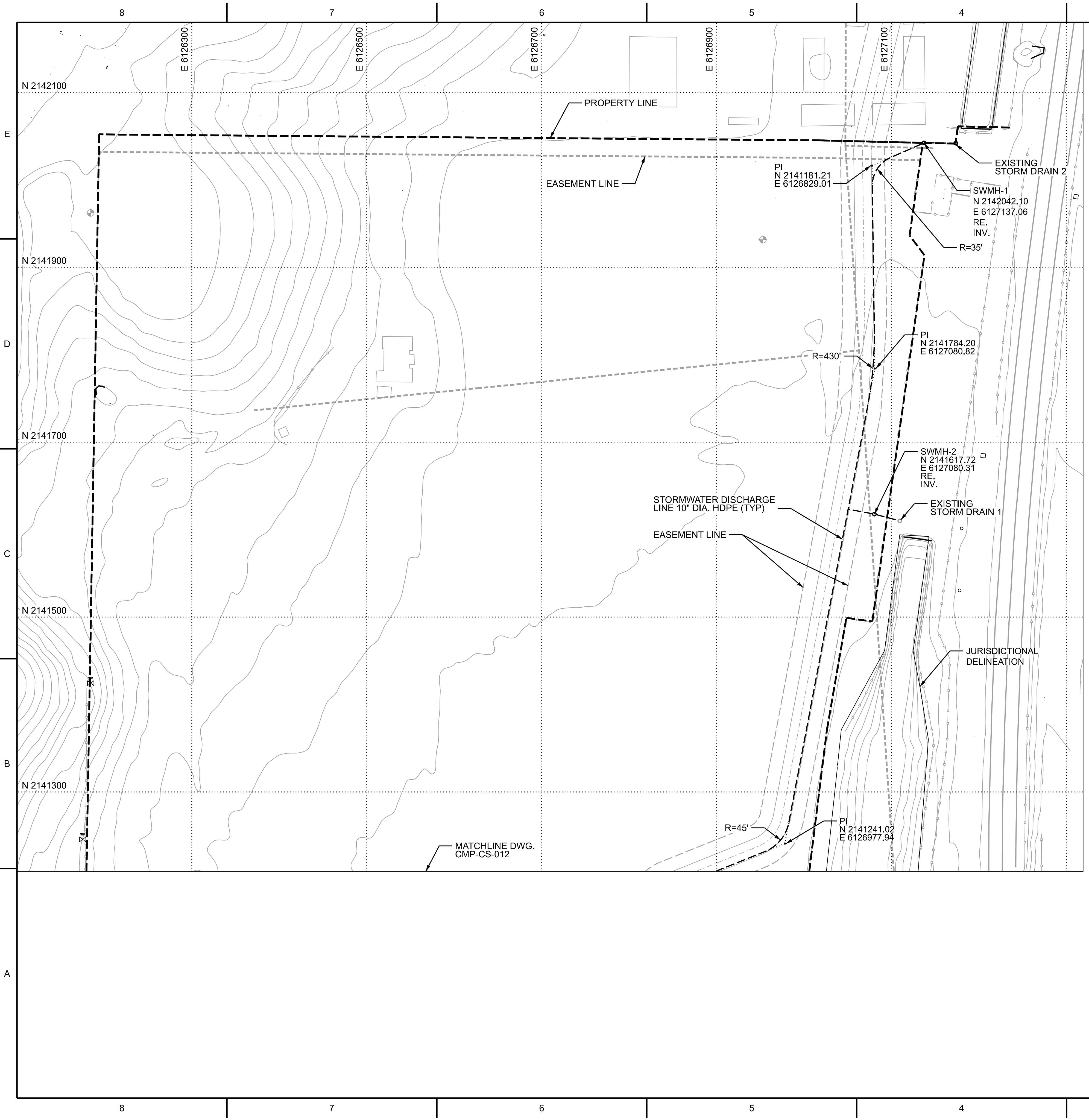
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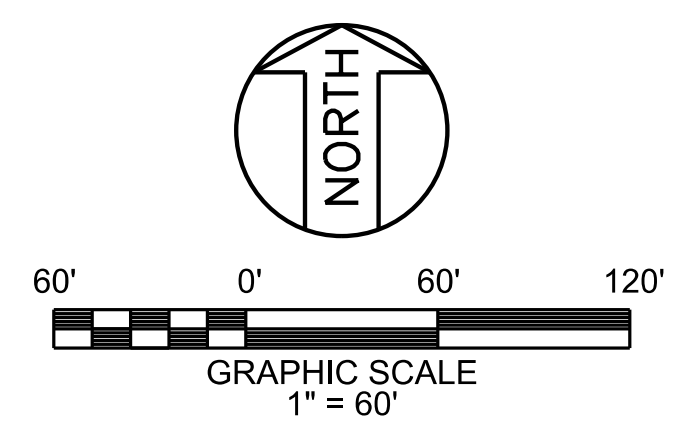
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ISSUE PURPOSE:		PERMIT
SPECIFICATION:		-
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PREPARED BY:		MK / JC
REVIEWED BY:		MT
APPROVED BY:		-
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 SARGENT & LUNDY 55 EAST MONROE STREET CHICAGO, ILLINOIS 60603-5780		
		
PROJECT		
COMPASS ENERGY STORAGE LLC		
DRAWING TITLE		
TEMPORARY EROSION AND SEDIMENT CONTROL DETAILS SHEET 2		
DRAWING NUMBER		REVISION
CMP-CS-006		0D
SHEET	1 OF 1	

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 Revision 11A, Revision Date: 04-30-2010



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NOTES

1. GEOTECHNICAL ENGINEERING REPORT PREPARED BY TERRACON CONSULTANTS, INC. "BROAD REACH POWER COMPASS BESS, SAN JAUN CAPISTRANO, ORANGE COUNTY, CA", NOVEMBER 3, 2021, REVISION 1.
2. FOR GENERAL NOTES, ABBREVIATIONS AND LEGEND, SEE DRAWING CMP-CS-002.

REFERENCE DRAWINGS

UNDERGROUND OR EMBEDDED UTILITIES MAY BE LOCATED WITHIN OR ADJACENT TO THE AREA IN WHICH EXCAVATION, DEMOLITION, FOUNDATION, OR MODIFICATION WORK IS TO BE PERFORMED.

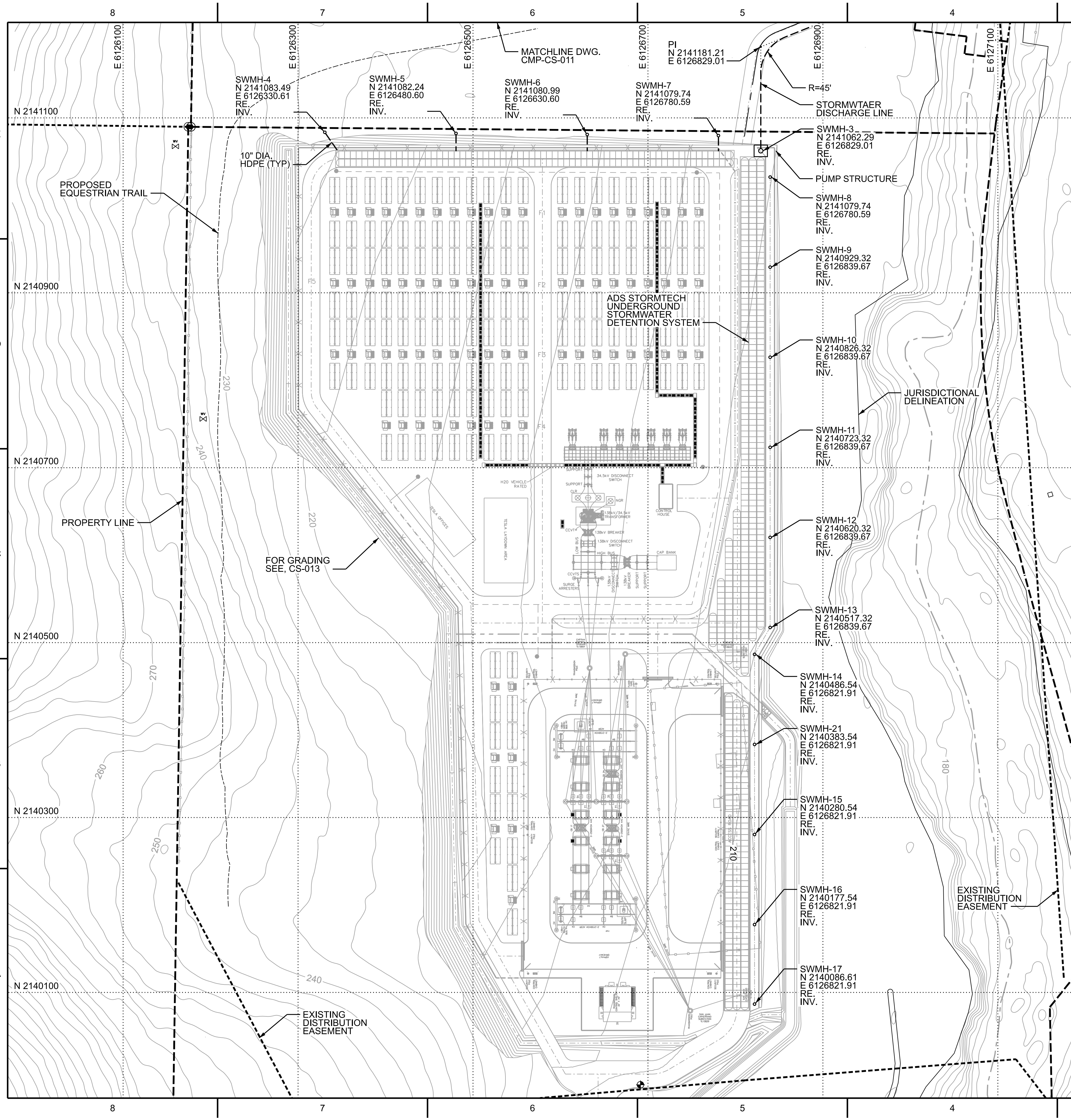
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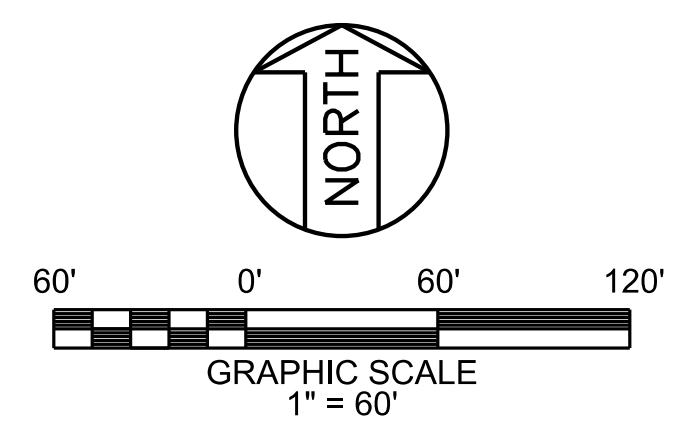
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SPECIFICATION: -		
PROJECT NO.: 14089-012		
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CAD FILE NAME: CMP-CS-011.DWG		
PREPARED BY: JC		
REVIEWED BY: MT		
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 SARGENT & LUNDY 55 EAST MONROE STREET CHICAGO, ILLINOIS 60603-5780		
PROJECT		
COMPASS ENERGY STORAGE LLC		
DRAWING TITLE		
DRAINAGE PLAN SHEET 1		
DRAWING NUMBER		REVISION
CMP-CS-011		0A
SHEET	1 OF 1	

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- NOTES**
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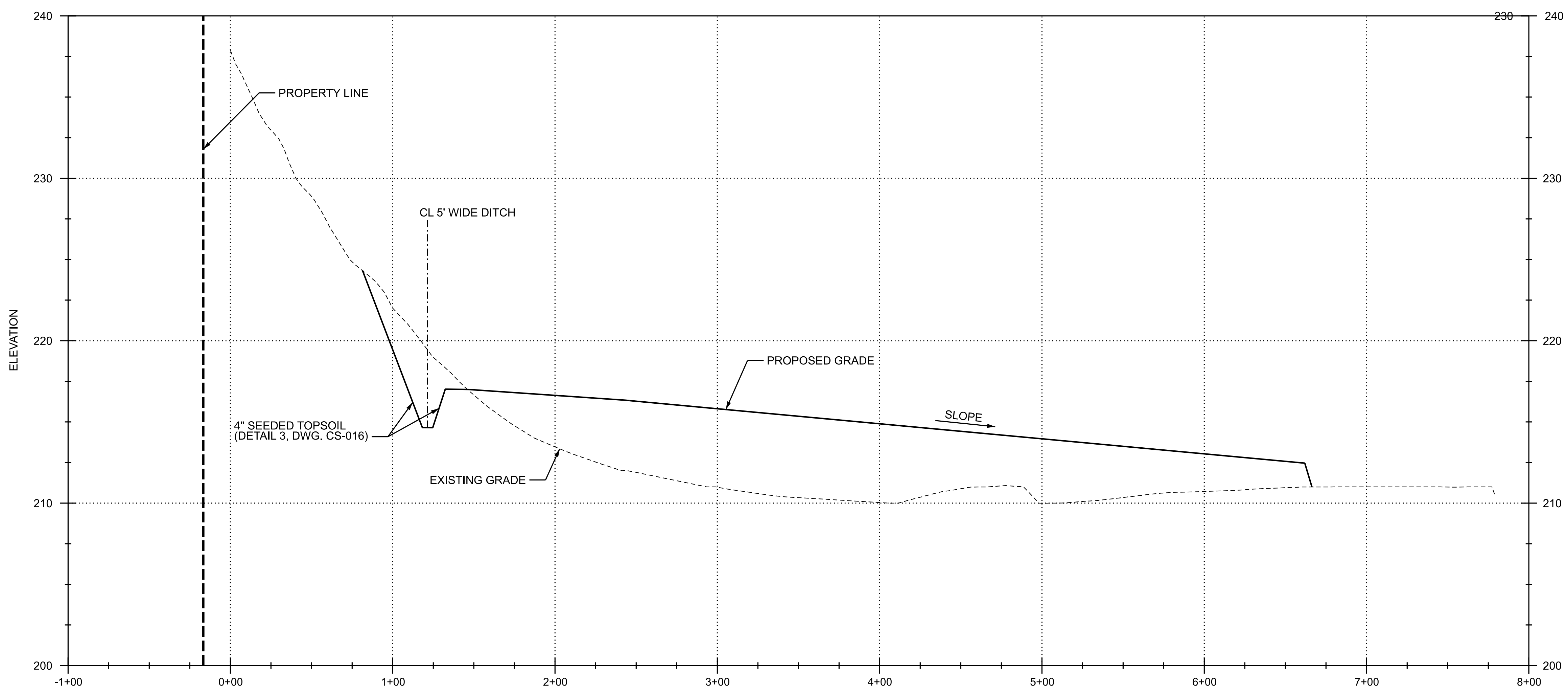
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SPECIFICATION:		-
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PROJECT		
COMPASS ENERGY STORAGE LLC		
DRAWING TITLE		
DRAINAGE PLAN SHEET 2		
DRAWING NUMBER		REVISION
CMP-CS-012		0D
SHEET	1 OF 1	

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SECTION A-A
 HORIZONTAL SCALE: 1"=40'
 VERTICAL SCALE: 1"=4'
 (CS-013)

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- NOTES**
- FOR GENERAL NOTES, ABBREVIATIONS AND LEGEND, SEE DRAWING CS-002.

REFERENCE DRAWINGS

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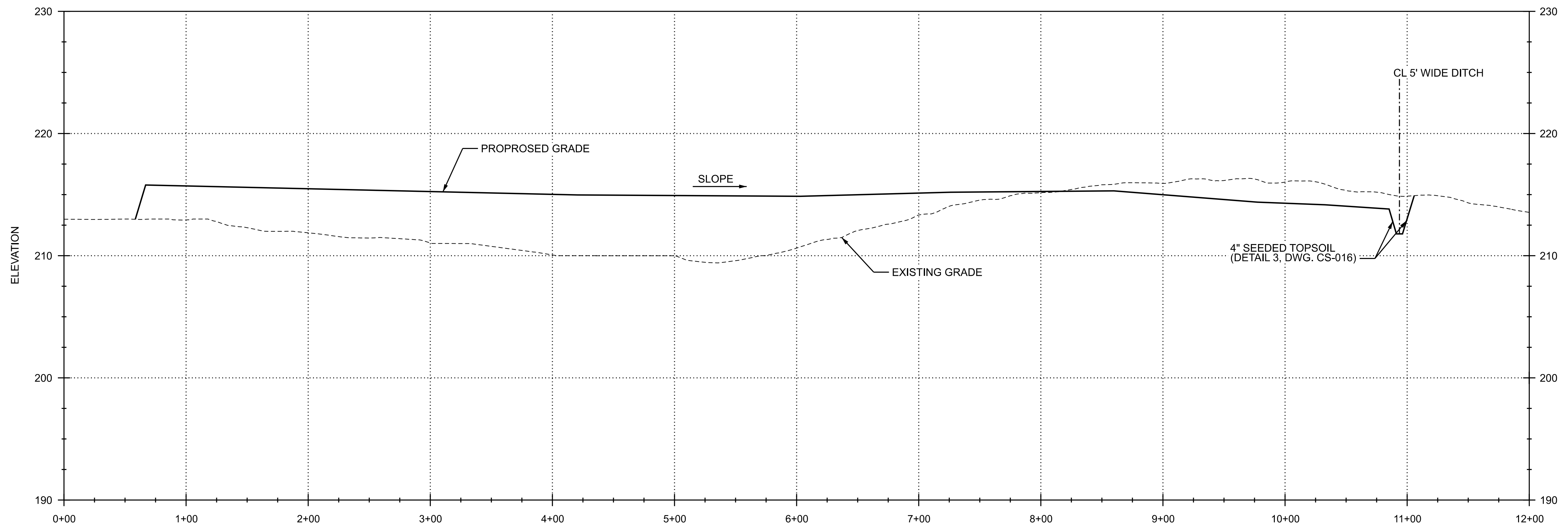
PROJECT
 COMPASS ENERGY STORAGE LLC

DRAWING TITLE
 GRADING SECTIONS
 SHEET 1

DRAWING NUMBER	REVISION
CMP-CS-014	0D
SHEET 1 OF 1	

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SECTION B-B
 HORIZONTAL SCALE: 1"=50'
 VERTICAL SCALE: 1"=5'
 (CS-013)

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- NOTES**
- FOR GENERAL NOTES, ABBREVIATIONS AND LEGEND, SEE DRAWING CMP-CS-002.

REFERENCE DRAWINGS

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 APPROVED BY: --
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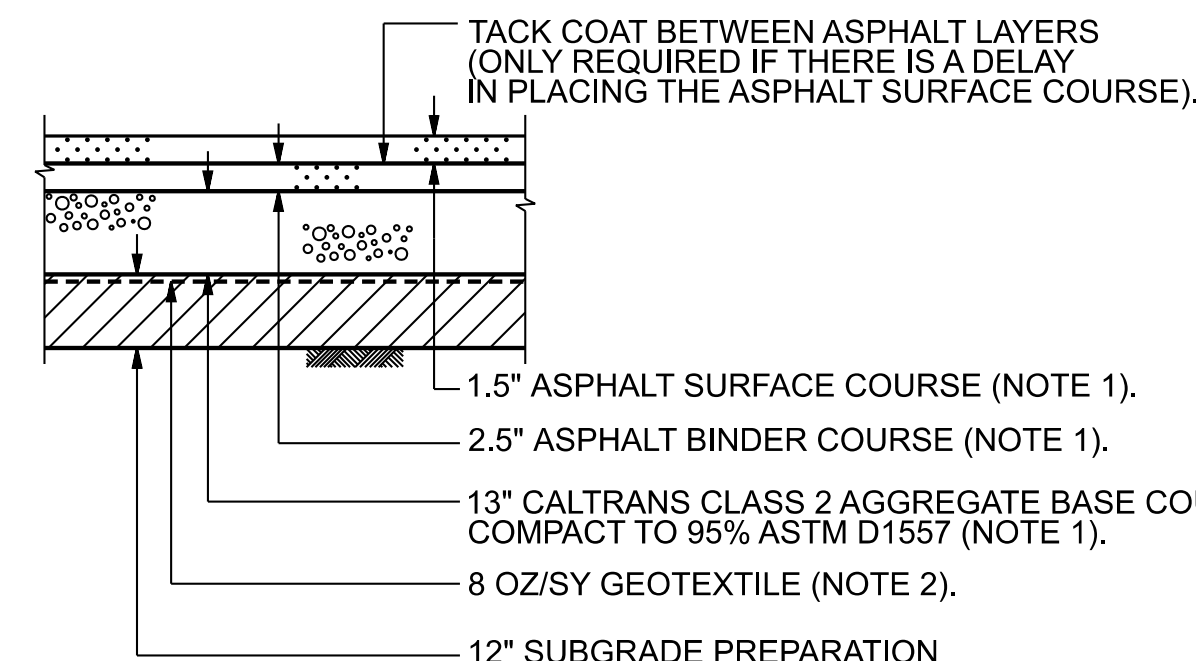
PROJECT
 COMPASS ENERGY STORAGE LLC

DRAWING TITLE
 GRADING SECTIONS
 SHEET 2

DRAWING NUMBER	REVISION
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SHEET 1 OF 1	

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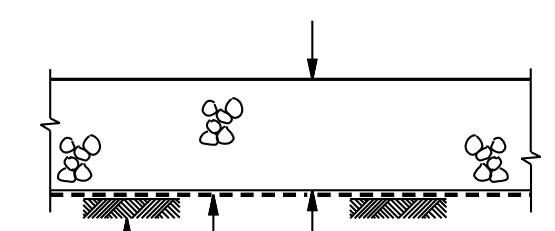
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TACK COAT BETWEEN ASPHALT LAYERS (ONLY REQUIRED IF THERE IS A DELAY IN PLACING THE ASPHALT SURFACE COURSE).

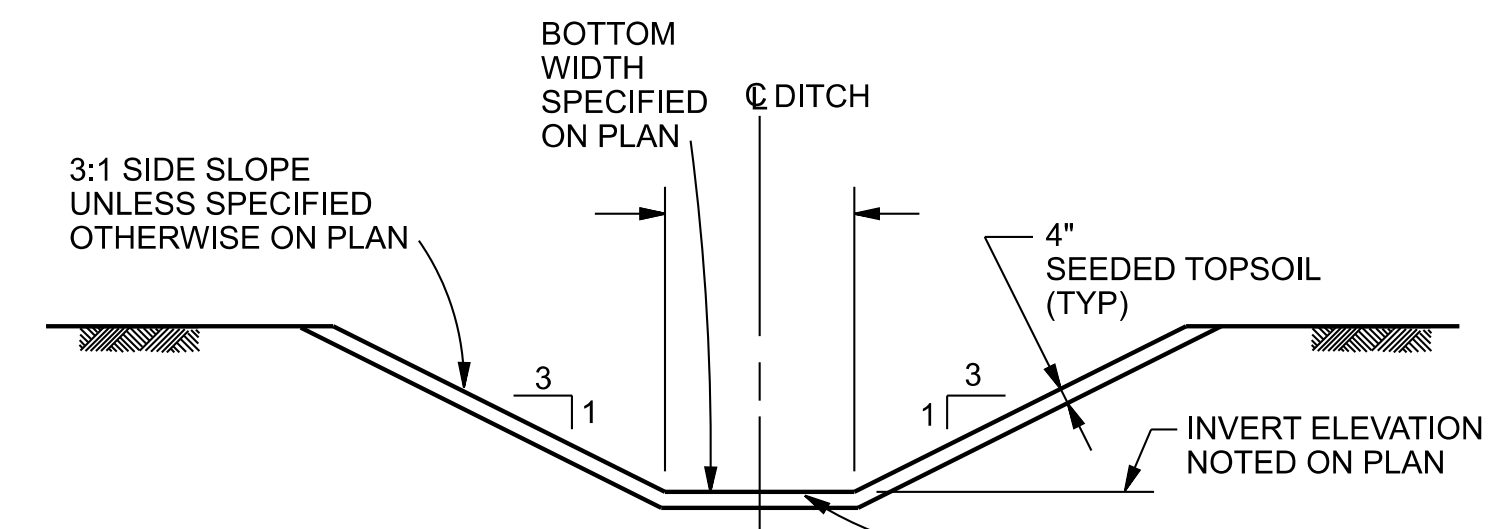
1.5" ASPHALT SURFACE COURSE (NOTE 1).
 2.5" ASPHALT BINDER COURSE (NOTE 1).
 13" CALTRANS CLASS 2 AGGREGATE BASE COURSE - COMPACT TO 95% ASTM D1557 (NOTE 1).
 8 OZ/SY GEOTEXTILE (NOTE 2).
 12" SUBGRADE PREPARATION IN FILL AREAS COMPACT FILL TO 95% PER ASTM D1557 AT ± 2% OPTIMUM MOISTURE CONTENT. IN CUT OR PARTIAL FILL AREAS, INSITU SOILS NOT MEETING THE REQUIRED DENSITY SHALL BE COMPACTED TO THE REQUIRED DENSITY EITHER BY COMPACTING FROM THE SURFACE OR BY SCARIFYING AND RECOMPACTING AS REQUIRED.

ASPHALT PAVEMENT SECTION
DETAIL 1
 SCALE: N.T.S.



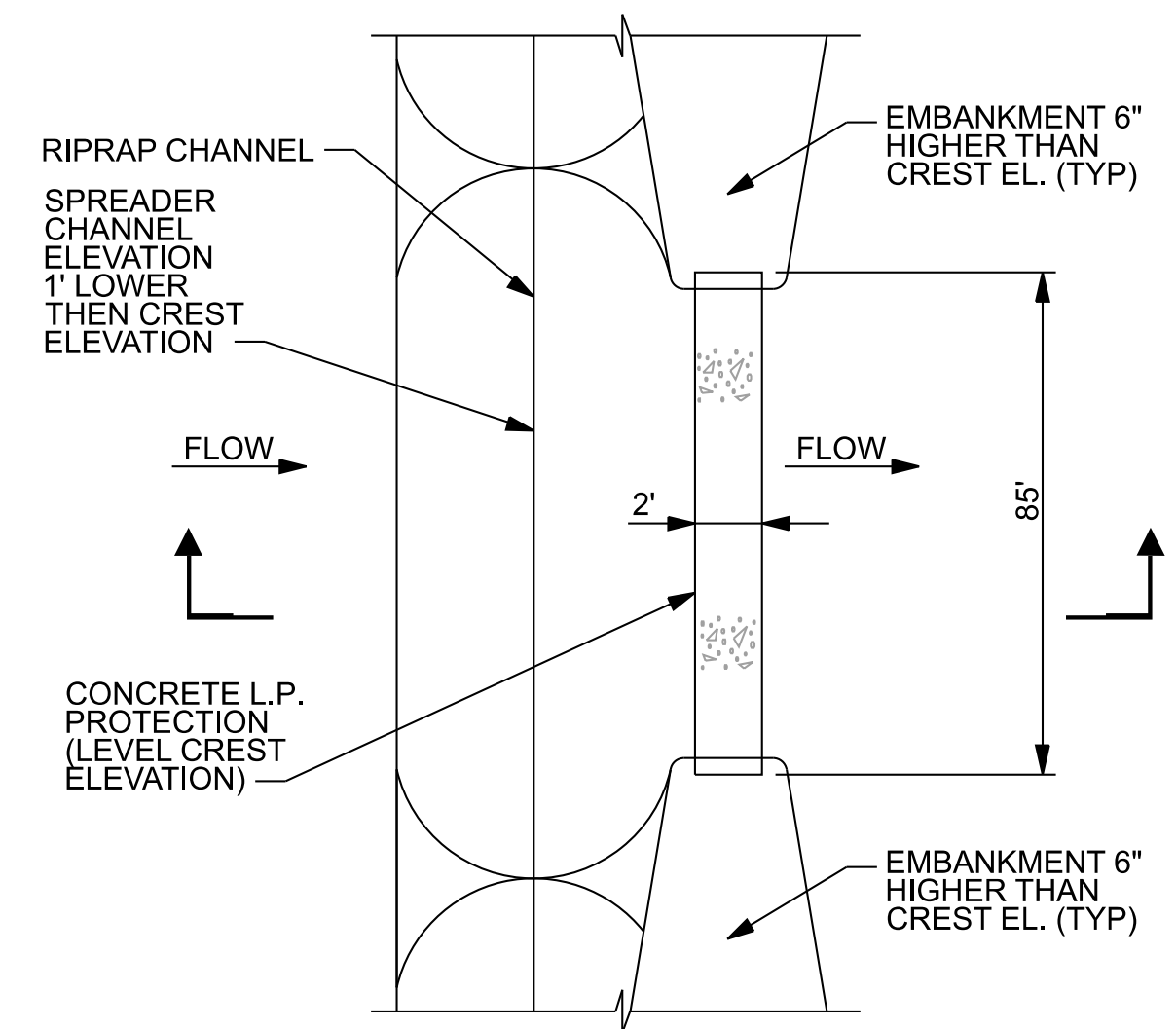
6" COMPACTED AGGREGATE BASE MATERIAL. MATERIAL COMPACTED TO 95% ASTM D1557. CALTRANS CLASS 2 AGGREGATE BASE MATERIAL (NOTE 1).
 8 OZ/SY GEOTEXTILE (NOTE 2).
 12" SUBGRADE PREPARATION IN FILL AREAS COMPACT FILL TO 95% ASTM D 1557. IN CUT OR PARTIAL FILL AREAS, INSITU SOILS NOT MEETING THE REQUIRED DENSITY SHALL BE COMPACTED TO THE REQUIRED DENSITY EITHER BY COMPACTING FROM THE SURFACE OR BY SCARIFYING AND RECOMPACTING AS REQUIRED.

AGGREGATE SURFACING
DETAIL 2
 SCALE: N.T.S.

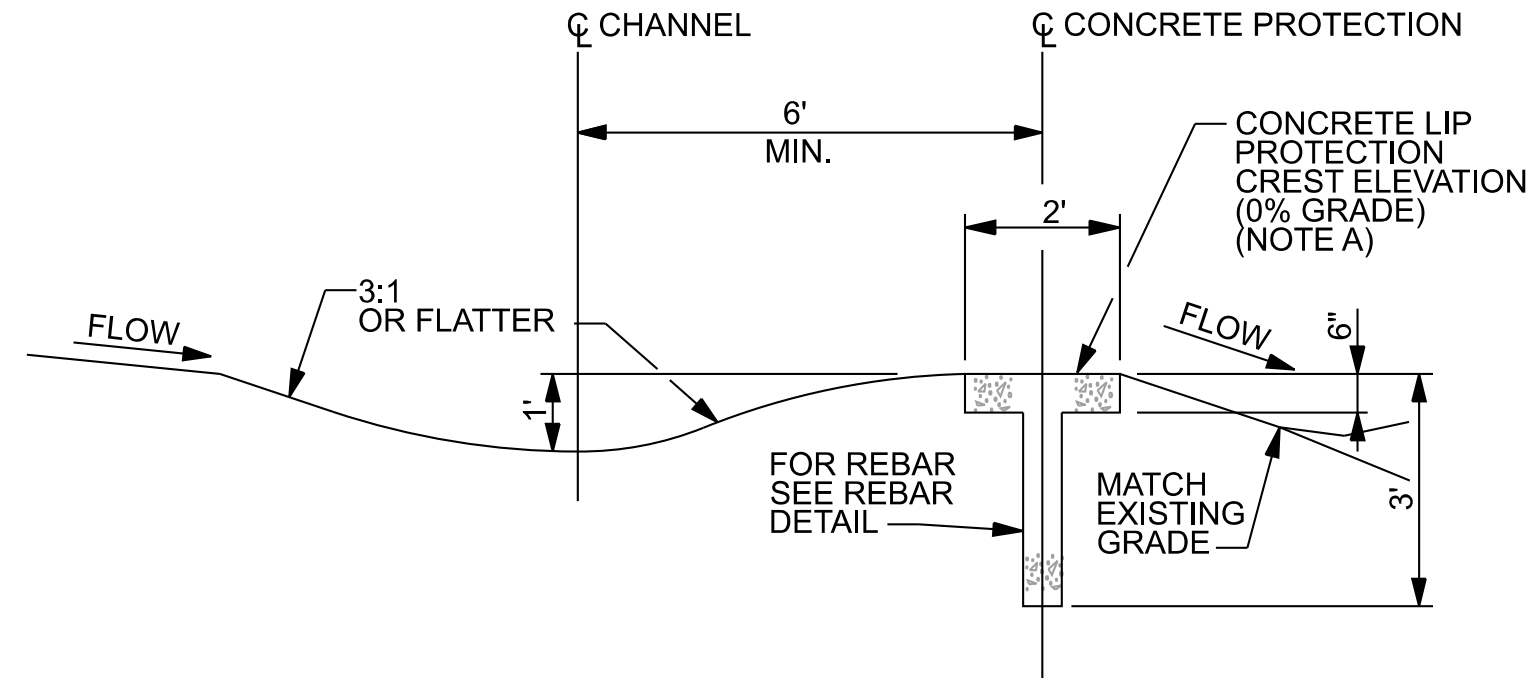


3:1 SIDE SLOPE UNLESS SPECIFIED OTHERWISE ON PLAN.
 BOTTOM WIDTH SPECIFIED ON PLAN.
 4" SEEDED TOPSOIL (TYP).
 INVERT ELEVATION NOTED ON PLAN.
 PROVIDE JUTE MAT NETTING OR EQUIVALENT OVER THE TOPSOIL IN DITCHES TO PROTECT NEWLY SEEDED DITCHES UNTIL A GOOD GRASS GROWTH IS ESTABLISHED.

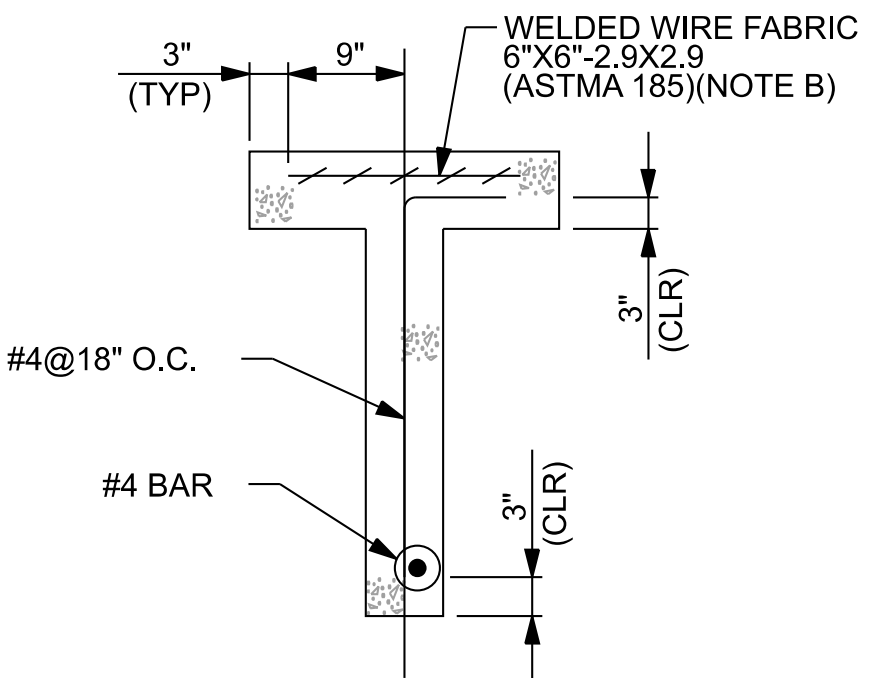
SEEDED DITCH
DETAIL 3
 SCALE: N.T.S.



PLAN



SECTION



REBAR DETAIL

- NOTES:
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
 - WELDED WIRE FABRIC SHALL BE FLAT SHEETS ONLY. ROLLED FABRIC IS NOT PERMITTED. PLACE FABRIC WITHIN 1/4" OF THE HALF THICKNESS OF THE TOP PORTION OF THE LEVEL SPREADER.

LEVEL SPREADER TABLE						
CREST ELEVATION (FT)	Q ₂₅ (CFS)	V ₂₅ (F/S)	FLOW DEPTH (IN)	Q ₁₀₀ (CFS)	V ₁₀₀ (F/S)	FLOW DEPTH (IN)
-	-	-	-	-	-	-

LEVEL SPREADER
DETAIL 4
 SCALE: N.T.S.

- NOTES**
- ALL MATERIAL FOR PAVEMENTS AND SURFACING SHALL BE FURNISHED AND INSTALLED PER THE CALTRANS STANDARD SPECIFICATIONS MANUAL.
 - GEOTEXTILE SHALL BE 8 OZ/SY NON-WOVEN FABRIC, US FABRICS, INC. OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

REFERENCE DRAWINGS

UNDERGROUND OR EMBEDDED UTILITIES MAY BE LOCATED WITHIN OR ADJACENT TO THE AREA IN WHICH EXCAVATION, DEMOLITION, FOUNDATION, OR MODIFICATION WORK IS TO BE PERFORMED.

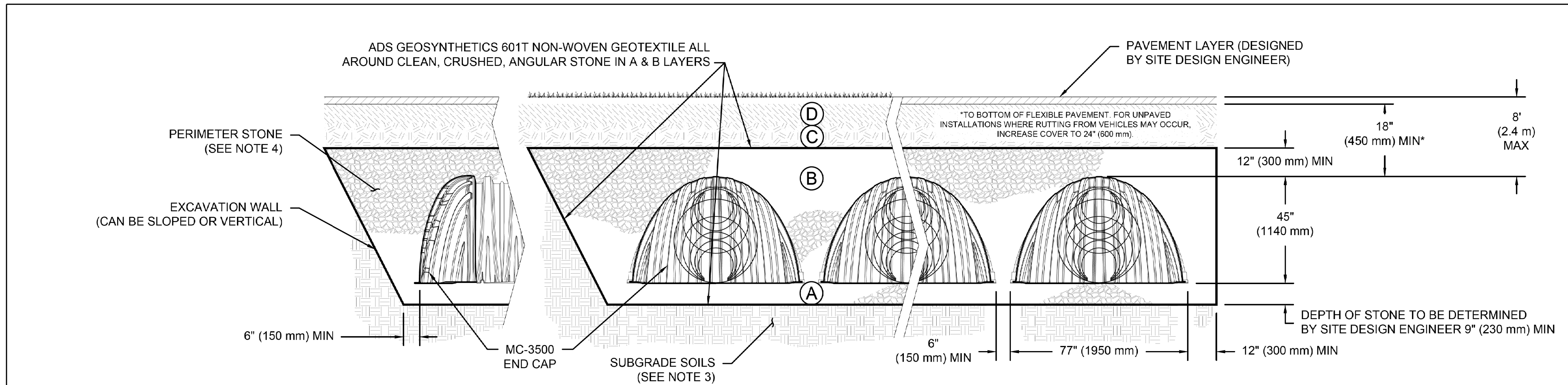
REFERENCES RELATING TO THE UNDERGROUND OR EMBEDDED UTILITIES ARE PROVIDED TO ASSIST THE CONTRACTOR/INSTALLER IN THE FIELD LOCATING THOSE UTILITIES AND OTHER POSSIBLE UNDERGROUND OR EMBEDDED INTERFERENCES WITH THE WORK.

THE CONTRACTOR/INSTALLER SHALL EXERCISE DUE CAUTION DURING ALL EXCAVATION/FOUNDATION/DEMOLITION WORK.

PERMIT ONLY
 NOT FOR CONSTRUCTION

HOLD INFORMATION		
NO.	DESCRIPTION	
	CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUB-CONTRACTOR(S)) PERFORMING THE WORK.	
RELEASE INFORMATION		
REV.	DATE	DESCRIPTION
0A	12-17-2021	ISSUED FOR PERMIT
0B	04-22-2022	ISSUED FOR PERMIT
0C	06-17-2022	ISSUED FOR PERMIT
0D	03-27-2024	ISSUED FOR PERMIT
ISSUE PURPOSE:		PERMIT
SPECIFICATION:		-
PROJECT NO.:		14089-012
I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CALIFORNIA.		
CAD FILE NAME:		CMP-CS-016.DWG
PREPARED BY:		MK / JC
REVIEWED BY:		MT
APPROVED BY:		-
ANY MODIFICATION OR ADDITION TO THIS DRAWING BY AN ORGANIZATION OTHER THAN SARGENT & LUNDY, IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.		
 SARGENT & LUNDY 55 EAST MONROE STREET CHICAGO, ILLINOIS 60603-5780		
PROJECT		
COMPASS ENERGY STORAGE LLC		
DRAWING TITLE		
GRADING SECTIONS AND DETAILS		
DRAWING NUMBER		REVISION
CMP-CS-016		0D
SHEET	1 OF 1	

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NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

DETAIL 1
SCALE: NONE
(CSK-012)

PERMIT ONLY
NOT FOR CONSTRUCTION

HOLD INFORMATION	
NO.	DESCRIPTION

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RELEASE INFORMATION		
REV.	DATE	DESCRIPTION
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0B	04-22-2022	ISSUED FOR PERMIT
0C	06-17-2022	ISSUED FOR PERMIT
0D	03-27-2024	ISSUED FOR PERMIT

ISSUE PURPOSE: PERMIT
SPECIFICATION: -
PROJECT NO.: 14089-012

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CALIFORNIA.

CAD FILE NAME: CMP-CS-022.DWG
PREPARED BY: JC
REVIEWED BY: MT
APPROVED BY: --

ANY MODIFICATION OR ADDITION TO THIS DRAWING BY AN ORGANIZATION OTHER THAN SARGENT & LUNDY, IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.



PROJECT
COMPASS ENERGY STORAGE LLC

DRAWING TITLE
UNDERGROUND STORMWATER DETENTION BASIN DETAILS

DRAWING NUMBER	REVISION
CMP-CS-022	0D
SHEET 1 OF 1	

NOTES	
1.	FOR GENERAL NOTES, ABBREVIATIONS AND LEGEND, SEE DRAWING CSK-002.

REFERENCE DRAWINGS	

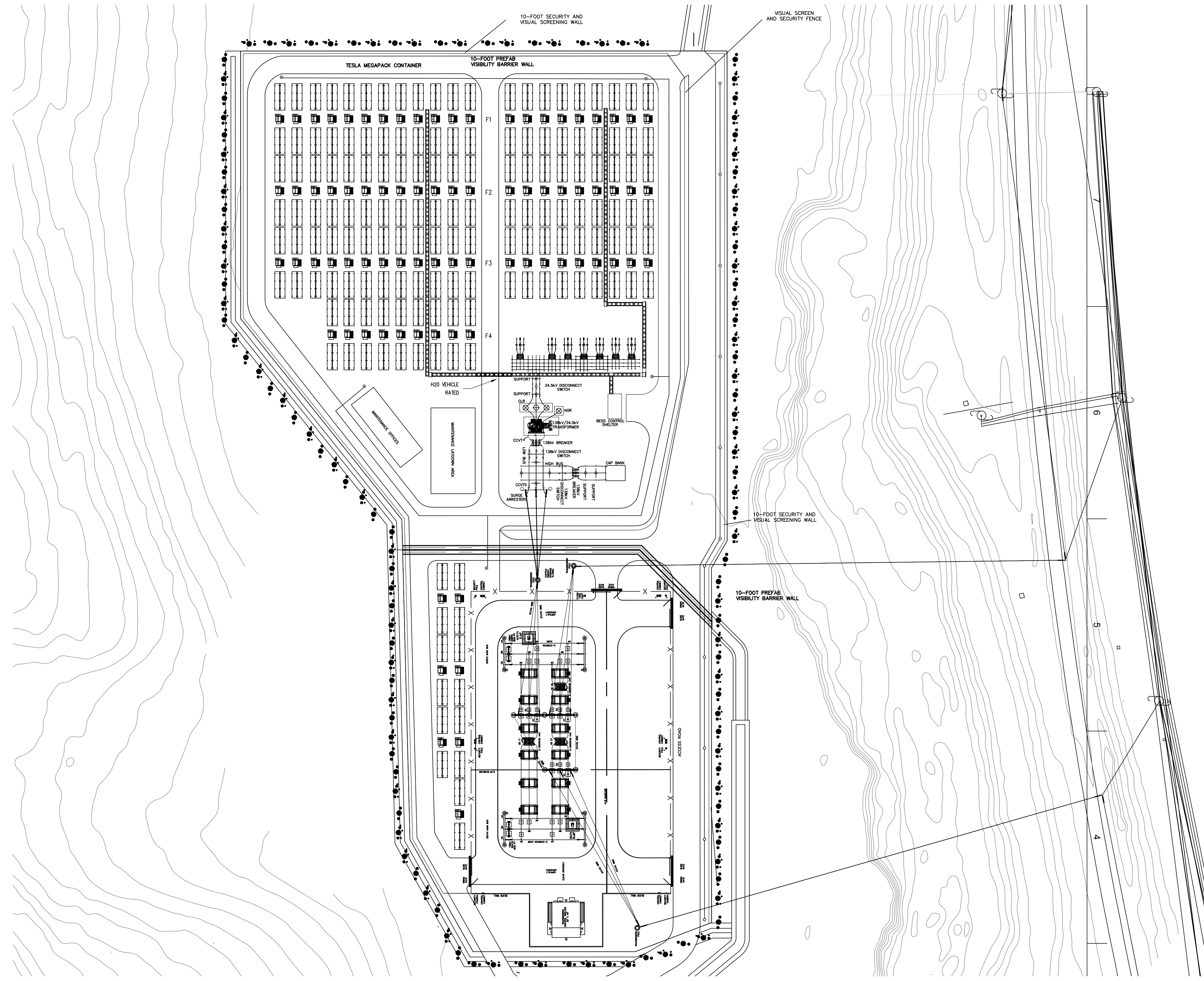
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Form GDD-0401-01-09, ANSI (Imperial) MicroStation Border - Size D - 22 x 34
Revision 11A, Revision Date: 04-30-2010

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REFERENCE DRAWINGS:
 ULTIMATE ARRANGEMENT
 FOUNDATION LAYOUT

S-500
 S-661

50% REVIEW SUBMITTAL

REVISIONS

NO.	WORK DONE	DATE:	BY:	APP'D:	NO.	WORK DONE	DATE:	BY:	APP'D:	NO.	WORK DONE	DATE:	BY:	APP'D:	NO.	WORK DONE	DATE:	BY:	APP'D:	NO.	

SAN DIEGO GAS & ELECTRIC COMPANY
 SAN DIEGO, CALIFORNIA

COMPASS SUBSTATION
 SITE LAYOUT

DRAWN BY: BP	DATE: 07/11/22	SCALE: 1"=60'	W.O.:	REV: 0
CHECKED BY: CAJ	DATE: 07/11/22	INT. W.O.:	CPB-D-P001-01	
APPROVED BY:	DATE:	PLOT SCALE: 1 = 1		
CAD NO.: COMPASS SUB				