DOCKETED	
Docket Number:	26-OPT-02
Project Title:	Seahawk Battery Energy Storage System
TN #:	270252
Document Title:	Section 2 Appendices Part 2
Description:	N/A
Filer:	Erin Phillips
Organization:	Dudek
Submitter Role:	Applicant Consultant
Submission Date:	5/27/2026 10:59:36 AM
Docketed Date:	5/27/2026

HATCH LEGEND

- MAIN DRIVE - COMPACTED BASEROCK
- CONCRETE PAD
- PEA GRAVEL WITH IMPERMEABLE LINER
- RIPRAP
- CONCRETE DRAINAGE STRUCTURE
- EXISTING AC

CURBING AND MISC ITEMS LEGEND

- PROPERTY LINE
- RETAINING WALL

LEGEND

DESCRIPTION	PROPOSED	NOISE LEVEL dBa
BESS CONTAINER		—
INVERTER		—
SWITCHBOARD		N/A
TRANSFORMER		—

LAYOUT AND MATERIALS

SCALE: 1"=30'

0 30 60

new leaf energy
55 TECHNOLOGY DRIVE, SUITE 102
LOWELL, MA 01851
PHONE: (800) 818-5249
FAX: (888) 678-8991
WWW.NEWLEAFENERGY.COM

NOT FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
No. C 64561
Exp. 6/30/25
CIVIL
STATE OF CALIFORNIA

SEAHAWK ENERGY STORAGE
90 MINTO ROAD
WATSONVILLE CA, 95076

PROJECT NUMBER: 110-5227

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
	12/12/24	MRM		SUBSTATION/BESS UPDATE
	12/09/24	MRM		C.U.P. SUBMISSION
	07/02/25	CZG		CIVIL UPDATE

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-2.1

LAYOUT AND MATERIALS

HATCH LEGEND

- MAIN DRIVE - COMPACTED BASEROCK
- CONCRETE PAD
- PEA GRAVEL WITH IMPERMEABLE LINER
- BIORETENTION
- RIPRAP
- CONCRETE DRAINAGE STRUCTURE
- EXISTING AC

CURBING AND MISC ITEMS LEGEND

- TYPE "C" CURB
- PROPERTY LINE
- RETAINING WALL

LEGEND

DESCRIPTION	PROPOSED	NOISE LEVEL dBa
BESS CONTAINER		—
INVERTER		—
SWITCHBOARD		NA
TRANSFORMER		—

LAYOUT AND MATERIALS

SCALE: 1"=30'

0 30 60

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	12/12/24	MRM		SUBSTATION/BESS UPDATE
	12/09/24	MRM		CUP SUBMISSION
	07/02/25	C2G		CIVIL UPDATE

ANSI B
11.00 x 17.00

C-2.2
LAYOUT AND MATERIALS

HATCH LEGEND

- MAIN DRIVE - COMPACTED BASEROCK
- BIORETENTION
- RIPRAP
- EXISTING AC

CURBING AND MISC ITEMS LEGEND

- TYPE "C" CURB
- PROPERTY LINE

LAYOUT AND MATERIALS

SCALE: 1"=30'

0 30 60

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	07/02/25	C2G		CIVIL UPDATE

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-2.3

ALTERNATIVE #1 EVA

SCALE: 1"=40'

0 40 80

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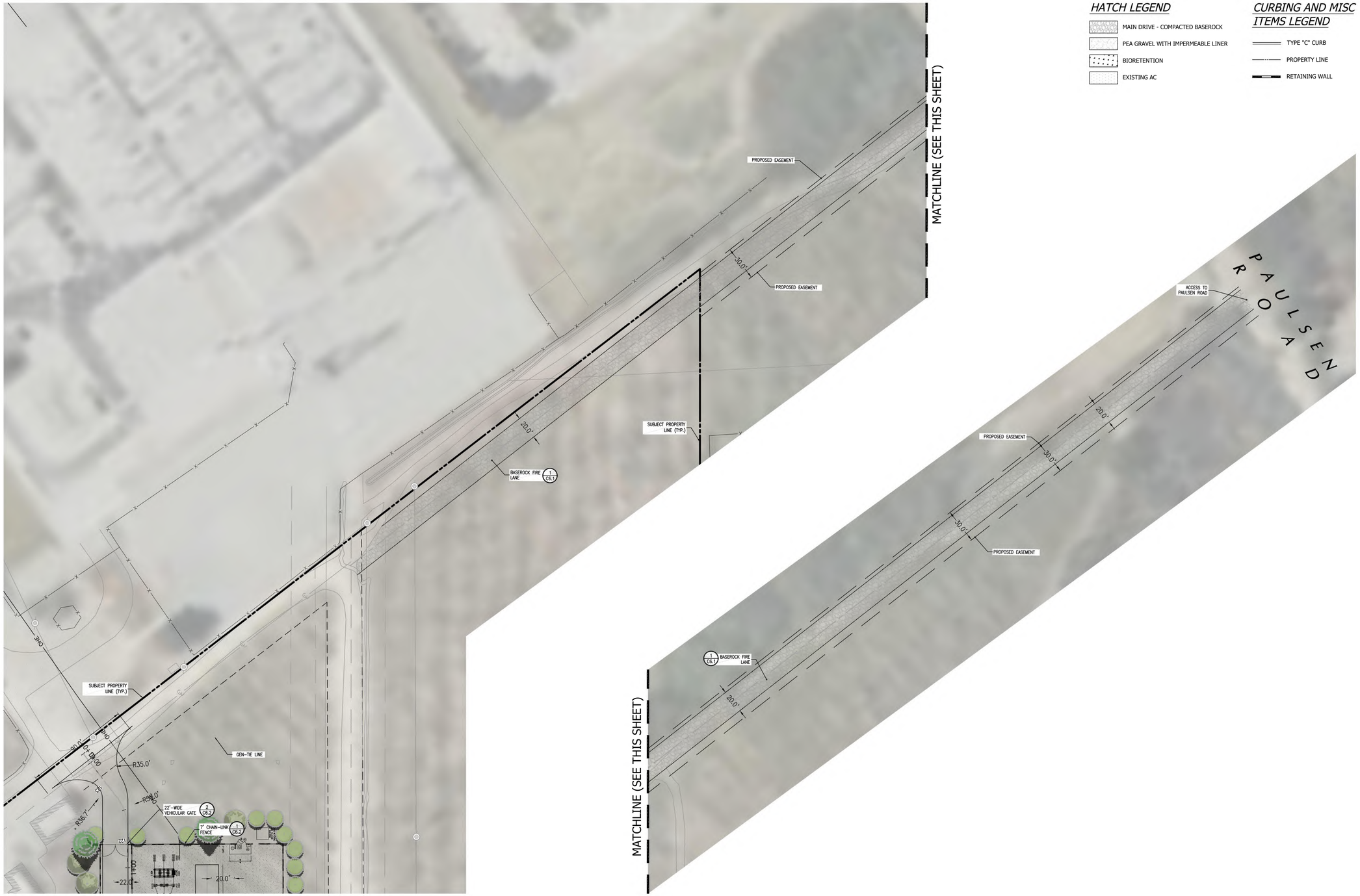
	12/09/24	MRM		CUP SUBMISSION
	07/02/25	C2G		CIVIL UPDATE

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-2.4

LAYOUT AND MATERIALS



HATCH LEGEND

- MAIN DRIVE - COMPACTED BASEROCK
- PEA GRAVEL WITH IMPERMEABLE LINER
- BIORETENTION
- EXISTING AC

CURBING AND MISC ITEMS LEGEND

- TYPE "C" CURB
- PROPERTY LINE
- RETAINING WALL

ALTERNATIVE #2 EVA

SCALE: 1"=40'

0 40 80

new leaf energy
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90 MINTO ROAD
WATSONVILLE CA, 95076

PROJECT NUMBER: 110-5227

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
	12/12/24	MRM		SUBSTATION/BESS UPDATE
	12/09/24	MRM		CUP SUBMISSION
	07/02/25	C2G		CIVIL UPDATE

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-2.5

LAYOUT AND MATERIALS

HATCH LEGEND

- MAIN DRIVE - COMPACTED BASEROCK
- BIORETENTION
- RIPRAP
- EXISTING AC

CURBING AND MISC ITEMS LEGEND

- TYPE "C" CURB
- PROPERTY LINE

LAYOUT AND MATERIALS

SCALE: 1"=30'

0 30 60

new leaf energy
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PROJECT NUMBER: 110-5227

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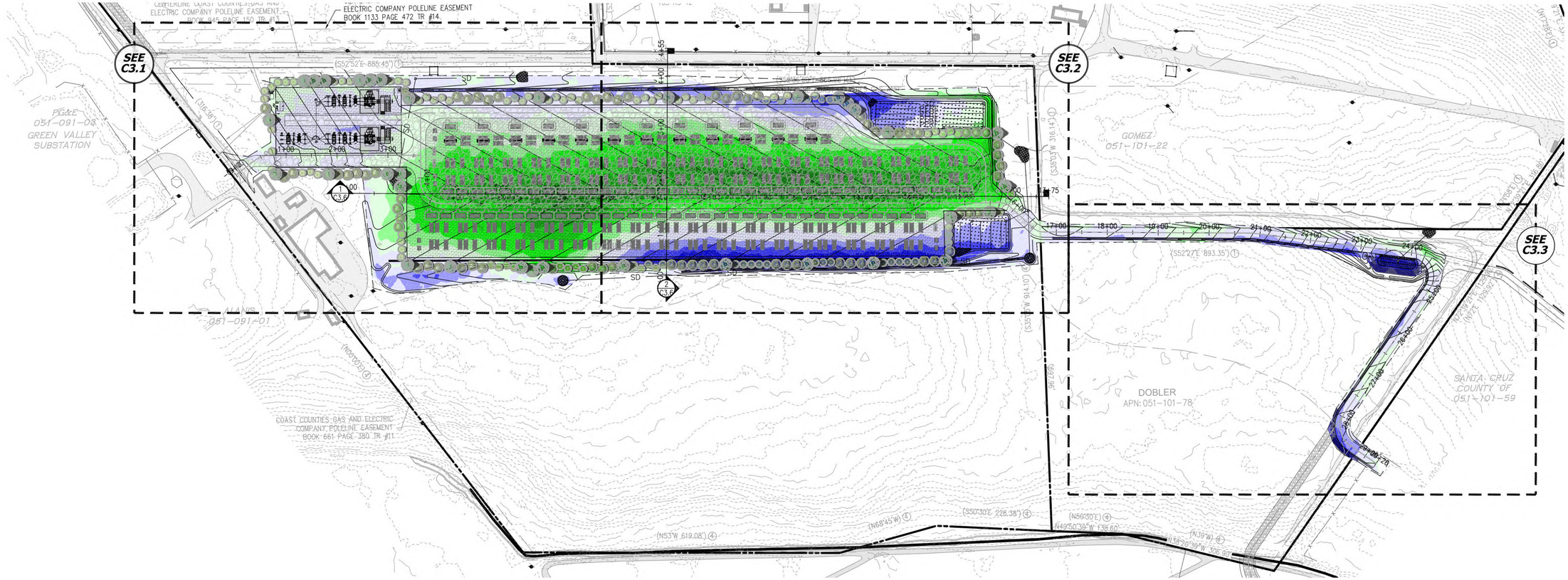
	07/02/25	C2G		CIVIL UPDATE

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C2.6



GRADING AND DRAINAGE SHEET INDEX

SCALE: 1"=100'

0 80 160

CUT AND FILL ANALYSIS TABLE

Number	MIN. ELV.	MAX. ELV.	VOL.	COLOR
1	-5.0	-4.0	81	
2	-4.0	-3.0	315	
3	-3.0	-2.0	798	
4	-2.0	-1.0	2021	
5	-1.0	0.0	4513	
6	0.0	1.0	10145	
7	1.0	2.0	7702	
8	2.0	3.0	5498	
9	3.0	4.0	3159	
10	4.0	5.0	1172	
11	5.0	6.0	58	
12	6.0	7.0	0	

EARTHWORK QUANTITIES

NOTE: THE EARTHWORK QUANTITIES SHOWN HEREON ARE EXCLUSIVE OF WALL FOOTINGS, EXISTING PAVEMENT REMOVAL AND OVER EXCAVATION AND RECOMPACTION, UTILITY TRENCH SPOILS & SOIL EXPANSION AND CONTRACTION FACTORS.

ITEM	DESCRIPTION	CUT (cu.yds)	FILL (cu.yds)
1	EG VS. FG	7,731	27,731
2	GRAVEL (@ 4")	2,422	
3	FIRE ACCESS (@ 12")	2,103	
4	CONC SLAB (@ 6" EXP.)	1,668	
5	BIO-RETENTION	1,787	

NET VOLUME = 15,711 CU.YDS. OF IMPORT

THE ABOVE QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE NECESSARY CUT AND FILL TO ACCOMPLISH FINISH GRADE SHOWN ON THESE PLANS.

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SEAHAWK ENERGY STORAGE
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WATSONVILLE CA, 95076

PROJECT NUMBER:
110-5227

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	12/09/24	MRM		CUP SUBMISSION
	07/02/25	C2G		CIVIL UPDATE

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-3.0

GRADING AND DRAINAGE SHEET INDEX

GRADING AND DRAINAGE

SCALE: 1"=30'

0 30 60

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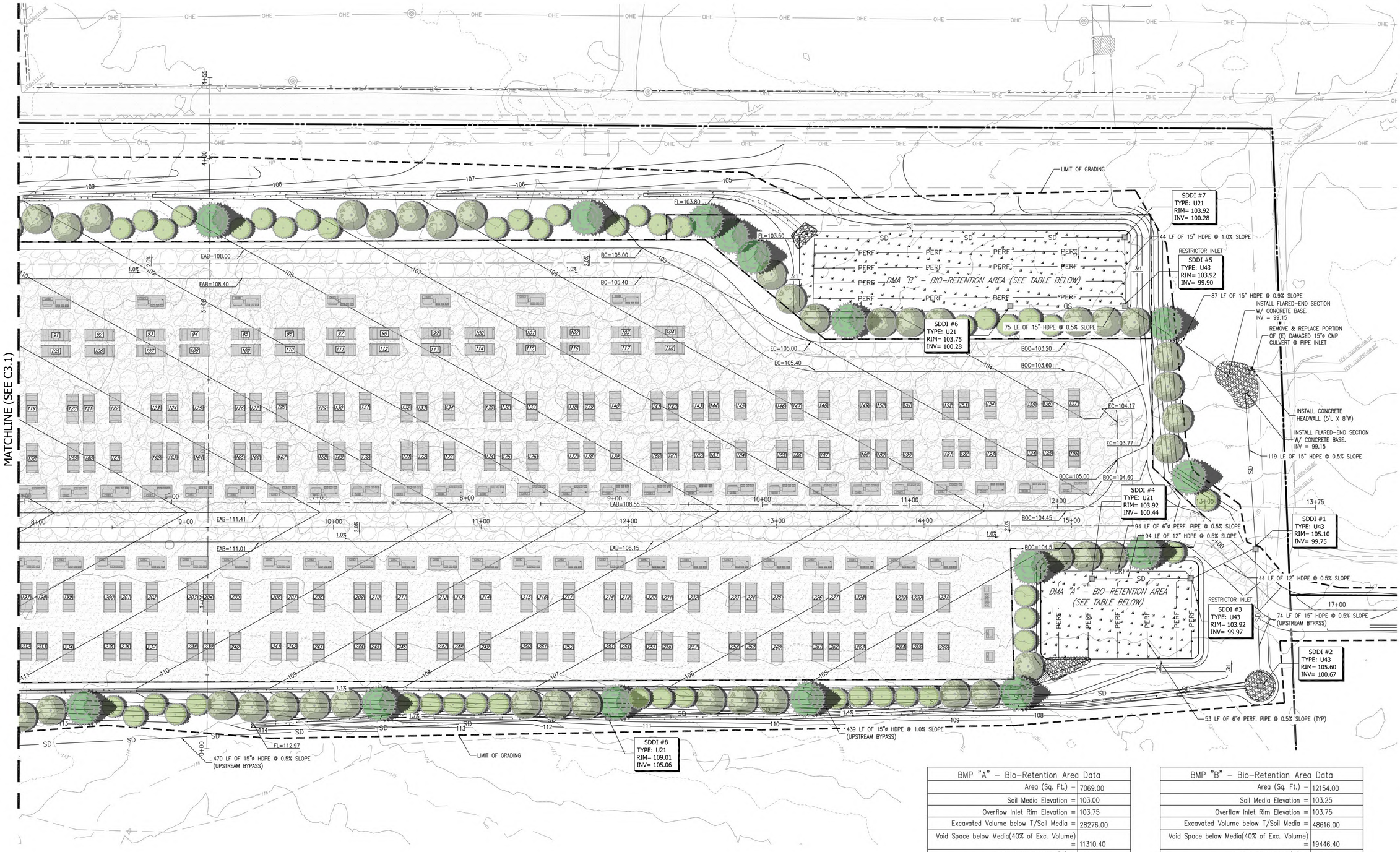
C-3.1

GRADING AND DRAINAGE



BMP "A" – Bio-Retention Area Data	
Area (Sq. Ft.) =	7069.00
Soil Media Elevation =	103.00
Overflow Inlet Rim Elevation =	103.75
Excavated Volume below T/Soil Media =	28276.00
Void Space below Media(40% of Exc. Volume) =	11310.40
Freeboard Height (in) =	8.00
Freeboard Volume (cu.ft.) =	4712.67
Total Volume for Stormwater Mitigation =	16023.07
Bottom of Trench Elevation =	99.00

BMP "B" – Bio-Retention Area Data	
Area (Sq. Ft.) =	12154.00
Soil Media Elevation =	103.25
Overflow Inlet Rim Elevation =	103.75
Excavated Volume below T/Soil Media =	48616.00
Void Space below Media(40% of Exc. Volume) =	19446.40
Freeboard Height (in) =	8.00
Freeboard Volume (cu.ft.) =	12154.00
Total Volume for Stormwater Mitigation =	31600.40
Bottom of Trench Elevation =	99.25

GRADING AND DRAINAGE

SCALE: 1"=30'

0 30 60

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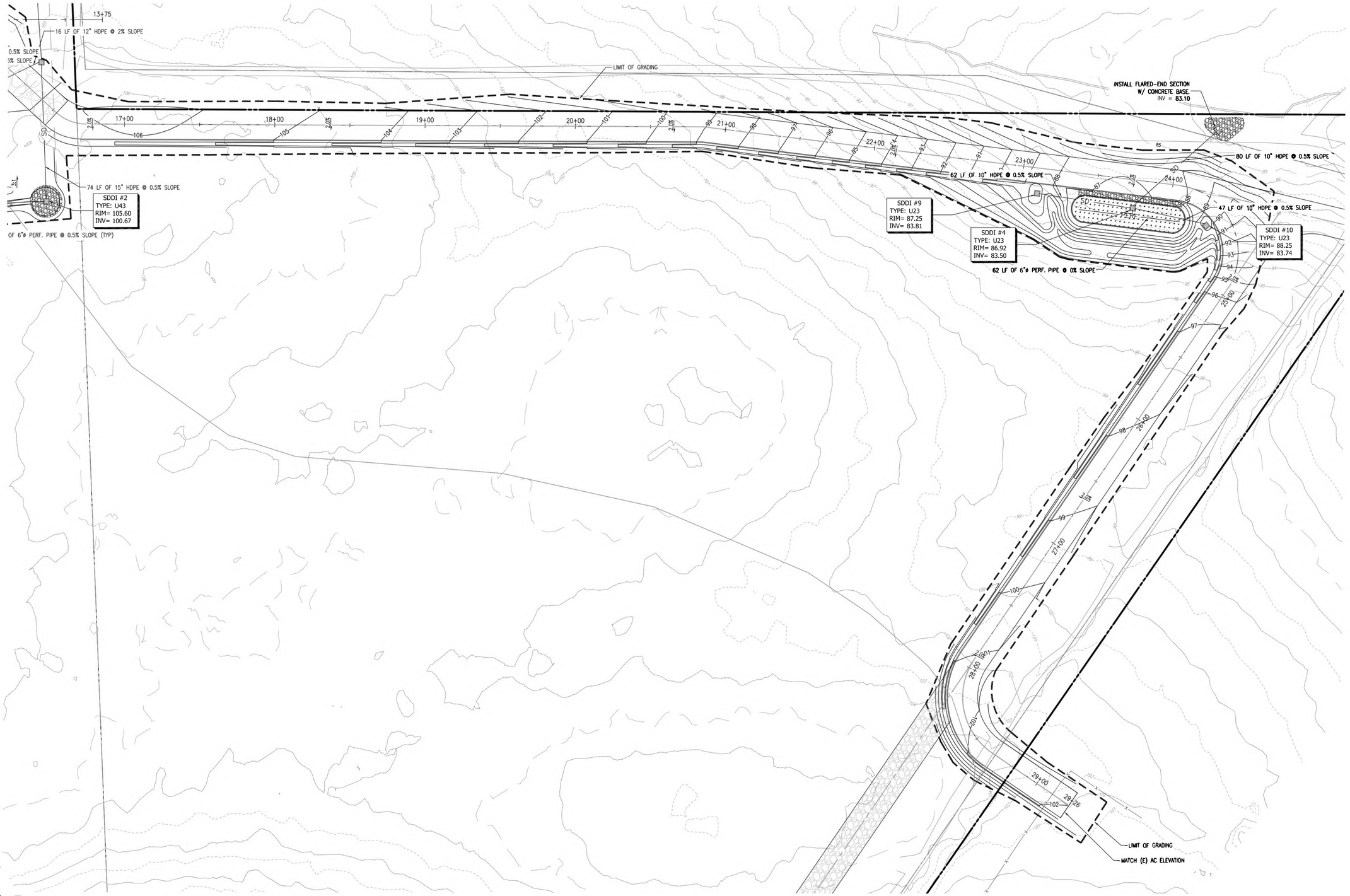
	07/02/25	C2G		CIVIL UPDATE

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-3.2

GRADING AND DRAINAGE



GRADING AND DRAINAGE

SCALE: 1"=30'

0 30 60

new leaf energy
55 TECHNOLOGY DRIVE, SUITE 102
LOWELL, MA 01851
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SEAHAWK ENERGY STORAGE
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WATSONVILLE CA, 95076

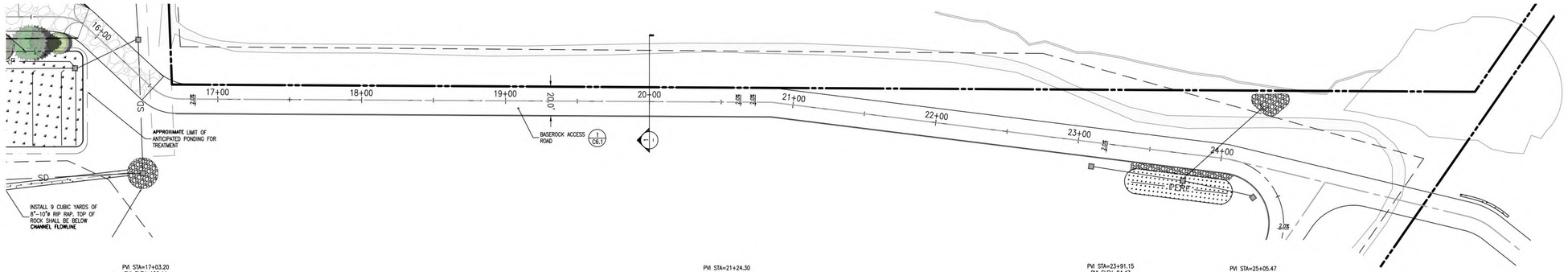
PROJECT NUMBER:
110-5227

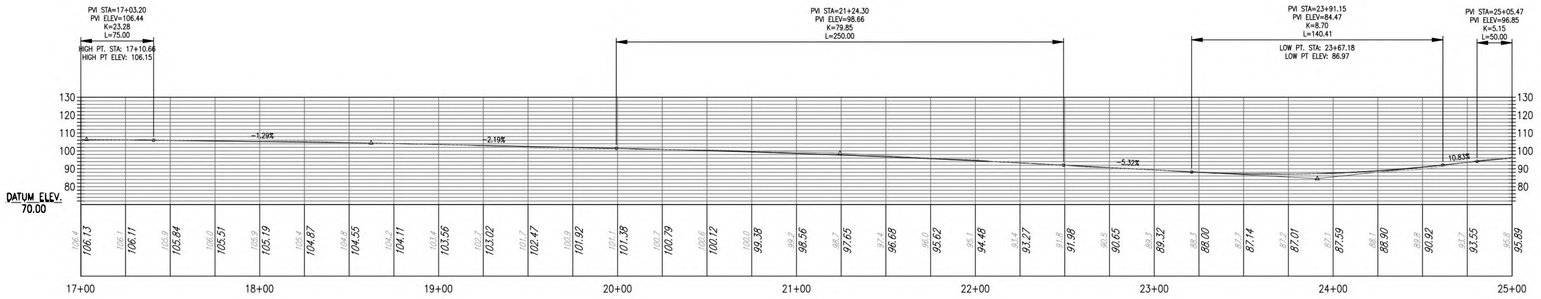
REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
	12/12/24	MRM		SUBSTATION/BESS UPDATE
	12/09/24	MRM		CUP SUBMISSION
	07/02/25	CZG		CIVIL UPDATE

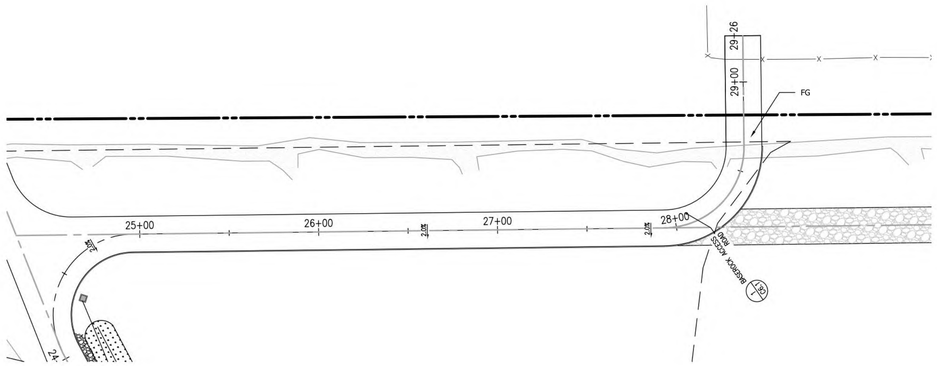
SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-3.3

GRADING AND DRAINAGE

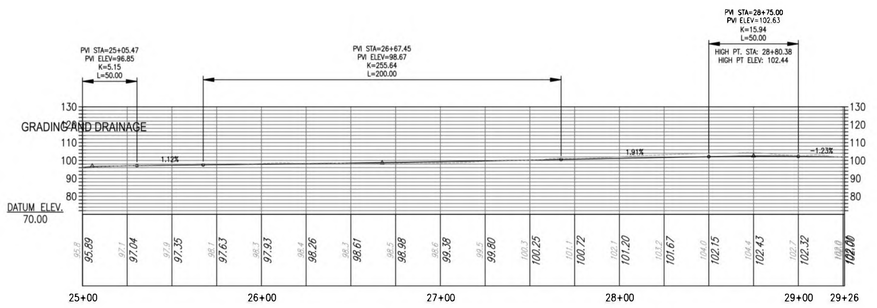






1 BASEROCK ACCESS ROAD SECTION

Scale: 1" = 2'



GRADING AND DRAINAGE

SCALE: 1"=40'

0 40 80

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SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-3.4

CONCRETE PAD ELEVATIONS FOR SHEET C3.1

Container Slab ID	RG Elev. @ SLAB CENTER	Northerly Corner EC Elevation	Easterly Corner EC Elevation	Southerly Corner EC Elevation	Westerly Corner EC Elevation
1	114.16	114.37	114.17	114.29	114.49
2	113.83	114.04	113.84	113.96	114.16
3	113.45	113.66	113.46	113.58	113.78
4	113.13	113.34	113.14	113.26	113.46
5	112.75	112.96	112.76	112.88	113.08
6	112.4	112.61	112.41	112.53	112.73
7	112.03	112.24	112.04	112.16	112.36
8	111.69	111.90	111.70	111.82	112.02
9	111.31	111.52	111.32	111.44	111.64
10	110.96	111.17	110.97	111.09	111.29
11	114.39	114.60	114.40	114.52	114.72
12	114.04	114.25	114.05	114.17	114.37
13	113.67	113.88	113.68	113.80	114.00
14	113.34	113.55	113.35	113.47	113.67
15	112.95	113.16	112.96	113.08	113.28
16	112.63	112.84	112.64	112.76	112.96
17	112.24	112.45	112.25	112.37	112.57
18	111.9	112.11	111.91	112.03	112.23
19	111.52	111.73	111.53	111.65	111.85
20	111.19	111.40	111.20	111.32	111.52
21	115.23	115.29	115.21	115.51	115.59
22	115.1	115.16	115.08	115.38	115.46
23	114.9	114.96	114.88	115.18	115.26
24	114.59	114.65	114.57	114.87	114.95
25	114.47	114.53	114.45	114.75	114.83
26	114.26	114.32	114.24	114.54	114.62
27	113.96	114.02	113.94	114.24	114.32
28	113.84	113.90	113.82	114.12	114.20
29	113.63	113.69	113.61	113.91	113.99
30	113.33	113.39	113.31	113.61	113.69
31	113.25	113.31	113.23	113.53	113.61
32	113.01	113.07	112.99	113.29	113.37
33	112.71	112.77	112.69	112.99	113.07
34	112.59	112.65	112.57	112.87	112.95
35	112.38	112.44	112.36	112.66	112.74
36	112.08	112.14	112.06	112.36	112.44
37	111.95	112.01	111.93	112.23	112.31
38	115.89	115.95	115.87	116.17	116.25
39	115.77	115.83	115.75	116.05	116.13
40	115.57	115.63	115.55	115.85	115.93
41	115.26	115.32	115.24	115.54	115.62
42	115.13	115.19	115.11	115.41	115.49
43	114.94	115.00	114.92	115.22	115.30
44	114.63	114.69	114.61	114.91	114.99
45	114.51	114.57	114.49	114.79	114.87
46	114.31	114.37	114.29	114.59	114.67
47	114	114.06	113.98	114.28	114.36
48	113.87	113.93	113.85	114.15	114.23
49	113.68	113.74	113.66	113.96	114.04
50	113.37	113.43	113.35	113.65	113.73
51	113.25	113.31	113.23	113.53	113.61
52	113.05	113.11	113.03	113.33	113.41
53	112.74	112.80	112.72	113.02	113.10
54	112.62	112.68	112.60	112.90	112.98
55	115.85	115.91	115.83	116.13	116.21
56	115.72	115.78	115.70	116.00	116.08
57	115.53	115.59	115.51	115.81	115.89
58	115.21	115.27	115.19	115.49	115.57
59	115.09	115.15	115.07	115.37	115.45
60	114.9	114.96	114.88	115.18	115.26
61	114.58	114.64	114.56	114.86	114.94
62	114.46	114.52	114.44	114.74	114.82
63	114.26	114.32	114.24	114.54	114.62
64	113.96	114.02	113.94	114.24	114.32
65	113.83	113.89	113.81	114.11	114.19
66	113.64	113.70	113.62	113.92	114.00
67	113.33	113.39	113.31	113.61	113.69
68	113.2	113.26	113.18	113.48	113.56
69	113.01	113.07	112.99	113.29	113.37
70	112.7	112.76	112.68	112.98	113.06
71	112.57	112.63	112.55	112.85	112.93
72	112.38	112.44	112.36	112.66	112.74
73	115.18	115.24	115.16	115.46	115.54
74	115.06	115.12	115.04	115.34	115.42
75	114.85	114.91	114.83	115.13	115.21
76	114.55	114.61	114.53	114.83	114.91
77	114.43	114.49	114.41	114.71	114.79
78	114.22	114.28	114.20	114.50	114.58
79	113.92	113.98	113.90	114.20	114.28
80	113.8	113.86	113.78	114.08	114.16
81	113.59	113.65	113.57	113.87	113.95
82	113.29	113.35	113.27	113.57	113.65
83	113.17	113.23	113.15	113.45	113.53
84	112.97	113.03	112.95	113.25	113.33
85	112.66	112.72	112.64	112.94	113.02
86	112.54	112.60	112.52	112.82	112.90
87	112.33	112.39	112.31	112.61	112.69
88	112.03	112.09	112.01	112.31	112.39
89	111.91	112.19	112.11	111.81	111.89
90	111.71	111.99	111.91	111.61	111.69

CONCRETE PAD ELEVATIONS FOR SHEET C3.2

Container Slab ID	RG Elev. @ SLAB CENTER	Northerly Corner EC Elevation	Easterly Corner EC Elevation	Southerly Corner EC Elevation	Westerly Corner EC Elevation
91	110.58	110.79	110.59	110.71	110.91
92	110.25	110.46	110.26	110.38	110.58
93	109.86	110.07	109.87	109.99	110.19
94	109.53	109.74	109.54	109.66	109.86
95	109.14	109.35	109.15	109.27	109.47
96	108.81	109.02	108.82	108.94	109.14
97	108.42	108.63	108.43	108.55	108.75
98	108.09	108.30	108.10	108.22	108.42
99	107.7	107.91	107.71	107.83	108.03
100	107.37	107.58	107.38	107.50	107.70
101	106.98	107.19	106.99	107.11	107.31
102	106.65	106.86	106.66	106.78	106.98
103	106.27	106.48	106.28	106.40	106.60
104	105.93	106.14	105.94	106.06	106.26
105	110.8	111.01	110.81	110.93	111.13
106	110.47	110.68	110.48	110.60	110.80
107	110.08	110.29	110.09	110.21	110.41
108	109.75	109.96	109.76	109.88	110.08
109	109.36	109.57	109.37	109.49	109.69
110	109.03	109.24	109.04	109.16	109.36
111	108.64	108.85	108.65	108.77	108.97
112	108.31	108.52	108.32	108.44	108.64
113	107.92	108.13	107.93	108.05	108.25
114	107.59	107.80	107.60	107.72	107.92
115	107.2	107.41	107.21	107.33	107.53
116	106.87	107.08	106.88	107.00	107.20
117	106.48	106.69	106.49	106.61	106.81
118	106.15	106.36	106.16	106.28	106.48
119	111.75	112.03	111.95	111.65	111.73
120	111.45	111.73	111.65	111.35	111.43
121	111.33	111.61	111.53	111.23	111.31
122	111.12	111.40	111.32	111.02	111.10
123	110.82	111.10	111.02	110.72	110.80
124	110.69	110.97	110.89	110.59	110.67
125	110.49	110.77	110.69	110.39	110.47
126	110.19	110.47	110.39	110.09	110.17
127	110.06	110.34	110.26	109.96	110.04
128	109.86	110.14	110.06	109.76	109.84
129	109.56	109.84	109.76	109.46	109.54
130	109.44	109.72	109.64	109.34	109.42
131	109.23	109.51	109.43	109.13	109.21
132	108.93	109.21	109.13	108.83	108.91
133	108.81	108.87	108.79	109.09	109.17
134	108.6	108.66	108.58	108.88	108.96
135	108.3	108.36	108.28	108.58	108.66
136	108.17	108.23	108.15	108.45	108.53
137	107.97	108.03	107.95	108.25	108.33
138	107.67	107.73	107.65	107.95	108.03
139	107.55	107.61	107.53	107.83	107.91
140	107.34	107.40	107.32	107.62	107.70
141	107.04	107.10	107.02	107.32	107.40
142	106.92	106.98	106.90	107.20	107.28
143	106.72	106.78	106.70	107.00	107.08
144	106.6	106.66	106.58	106.88	106.96
145	106.4	106.46	106.38	106.68	106.76
146	106.09	106.15	106.07	106.37	106.45
147	105.97	106.03	105.95	106.25	106.33
148	105.77	105.83	105.75	106.05	106.13
149	105.47	105.53	105.45	105.75	105.83
150	105.34	105.40	105.32	105.62	105.70
151	105.13	105.19	105.11	105.41	105.49
152	104.83	104.89	104.81	105.11	105.19
153	104.71	104.77	104.69	104.99	105.07
154	104.5	104.56	104.48	104.78	104.86
155	104.19	104.25	104.17	104.47	104.55
156	104.07	104.13	104.05	104.35	104.43
157	103.97	104.03	103.95	104.25	104.33
158	112.42	112.48	112.40	112.70	112.78
159	112.11	112.17	112.09	112.39	112.47
160	111.99	112.05	111.97	112.27	112.35
161	111.8	111.86	111.78	112.08	112.16
162	111.48	111.54	111.46	111.76	111.84
163	111.36	111.42	111.34	111.64	111.72
164	111.17	111.23	111.15	111.45	111.53
165	110.85	110.91	110.83	111.13	111.21
166	110.73	110.79	110.71	111.01	111.09
167	110.53	110.59	110.51	110.81	110.89
168	110.23	110.29	110.21	110.51	110.59
169	110.1	110.16	110.08	110.38	110.46
170	109.9	109.96	109.88	110.18	110.26
171	109.59	109.65	109.57	109.87	109.95
172	109.47	109.53	109.45	109.75	109.83
173	109.27	109.33	109.25	109.55	109.63
174	108.96	109.02	108.94	109.24	109.32
175	108.84	108.90	108.82	109.12	109.20
176	108.65	108.71	108.63	108.93	109.01
177	108.33	108.39	108.31	108.61	108.69
178	108.21	108.27	108.19	108.49	108.57
179	108.02	108.08	108.00	108.30	108.38
180	107.7	107.76	107.68	107.98	108.06
181	107.58	107.64	107.56	107.86	107.94
182	107.39	107.45	107.37	107.67	107.75
183	107.27	107.33	107.25	107.55	107.63
184	107.07	107.13	107.05	107.35	107.43
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191	105.49	105.55	105.47	105.77	105.85
192	105.37	105.43	105.35	105.65	105.73
193	105.17	105.23	105.15	105.45	105.53
194	104.86	104.92	104.84	105.14	105.22
195	104.74	104.80	104.72	105.02	105.10
196	104.54	104.60	104.52	104.82	104.90
197	112.07	112.13	112.05	112.35	112.43
198	111.94	112.00	111.92	112.22	112.30
199	111.75	111.81	111.73	112.03	112.11
200	111.44	111.50	111.42	111.72	111.80
201	111.32	111.38	111.30	111.60	111.68
202	111.12	111.18	111.10	111.40	111.48
203	110.8	110.86	110.78	111.08	111.16
204	110.68	110.74	110.66	110.96	111.04
205	110.49	110.55	110.47	110.77	110.85
206	110.47	110.53	110.45	110.75	110.83
207	110.32	110.38	110.30	110.60	110.68
208	109.86	109.92	109.84	110.14	110.22
209	109.55	109.61	109.53	109.83	109.91
210	109.54	109.60	109.52	109.82	109.90
211	109.23	109.29	109.21	109.51	109.59
212	108.92	108.98	108.90	109.20	109.28
213	108.8	108.86	108.78	109.08	109.16
214	108.6	108.66	108.58	108.88	108.96
215	108.29	108.35	108.27	108.57	108.65
216	108.17	108.23	108.15	108.45	108.53
217	107.97	108.03	107.95	108.25	108.33
218	107.66	107.72	107.64	107.94	108.02
219	107.54	107.60	107.52	107.82	107.90
220	107.35	107.41	107.33	107.63	107.71
221	107.22	107.28	107.20	107.50	107.58
222	107.02	107.08	107.00	107.30	107.38
223	106.71	106.77	106.69	106.99	107.07
224	106.59	106.65	106.57	106.87	106.95
225	106.4	106.46	106.38	106.68	106.76
226	106.08	106.14	106.06	106.36	106.44
227	105.96	106.02	105.94	106.24	106.32
228	105.76	105.82	105.74	106.04	106.12
229	105.45	105.51	105.43	105.73	105.81
230	105.32	105.38	105.30	105.60	105.68
231	105.12	105.18	105.10	105.40	105.48
232	111.4	111.46	111.38	111.68	111.76
233	111.28	111.34	111.26	111.56	111.64
234	111.07	111.13	111.05	111.35	111.43
235	110.77	110.83	110.75	111.05	111.13
236	110.65	110.71	110.63	110.93	111.01
237	110.45	110.51	110.43	110.73	110.81
238	110.14	110.20	110.12	110.42	110.50
239	110.02	110.08	110.00	110.30	110.38
240	109.81	109.87	109.79	110.09	110.17
241	109.51	109.87	109.79	109.49	109.57
242	109.4	109.76	109.68	109.38	109.46
243	109.19	109.55	109.47	109.17	109.25
244	108.89	109.25	109.17	108.87	108.95
245	108.76	109.12	109.04	108.74	108.82
246	108.56	108.92	108.84	108.54	108.62
247	108.26	108.62	108.54	108.24	108.32
248	108.13	108.49	108.41	108.11	108.19
249	107.93	108.29	108.21	107.91	107.99
250	107.62	107.98	107.90	107.60	107.68
251	107.5	107.86	107.78	107.48	107.56
252	107.3	107.66	107.58	107.28	107.36
253	107	107.36	107.28	106.98	107.06
254	106.87	107.23	107.15	106.85	106.93
255	106.73	107.09	107.01	106.71	106.79
256	106.56	106.92	106.84	106.54	106.62
257	106.35	106.71	106.63	106.33	106.41
258	106.05	106.41	106.33	106.03	106.11
259	105.92	106.28	106.20	105.90	105.98
260	105.72	106.08	106.00	105.70	105.78
261	105.42	105.78	105.70	105.40	105.48
262	105.29	105.65	105.57	105.27	105.35
263	105.08	105.44	105.36	105.06	105.14
264	104.73	105.09	105.01	104.71	104.79
265	104.58	104.94	104.86	104.56	104.64
266	104.56	104.92	104.84	104.54	104.62

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NOT FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
No. C 64561
Exp. 6/30/25
CIVIL
STATE OF CALIFORNIA

SEAHAWK ENERGY STORAGE
90 MINTO ROAD
WATSONVILLE CA, 95076

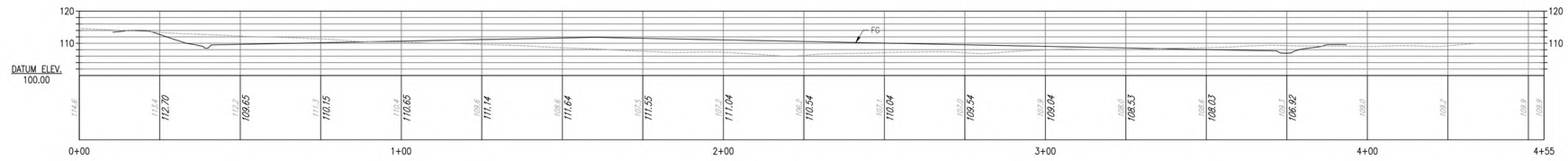
PROJECT NUMBER:
110-5227

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
	12/12/24	MRM		SUBSTATION/BESS UPDATE
	12/09/24	MRM		CUP SUBMISSION
	07/02/25	CZG		CIVIL UPDATE

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

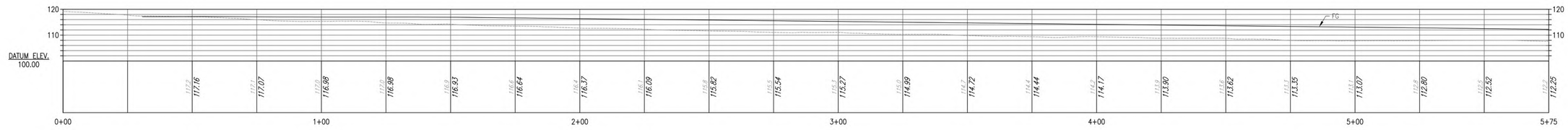
C-3.5

PAD TABLES



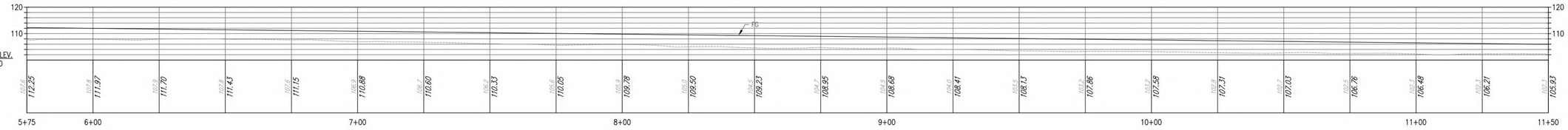
1 NORTH - SOUTH ALIGNMENT SECTION

Scale: 1"=20'



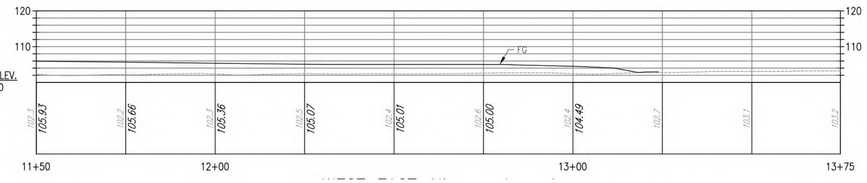
2 WEST - EAST ALIGNMENT SECTION (STA. 0+00 TO 5+75)

Scale: 1"=20'



3 WEST - EAST ALIGNMENT SECTION (STA. 5+75 TO 11+50)

Scale: 1"=20'



4 WEST - EAST ALIGNMENT SECTION (STA. 11+50 TO 13+75)

Scale: 1" = 20'

MATCHLINE (SEE SECTION 2 ON THIS SHEET)

MATCHLINE (SEE SECTION 3 ON THIS SHEET)

MATCHLINE (SEE SECTION 3 ON THIS SHEET)

MATCHLINE (SEE SECTION 4 ON THIS SHEET)

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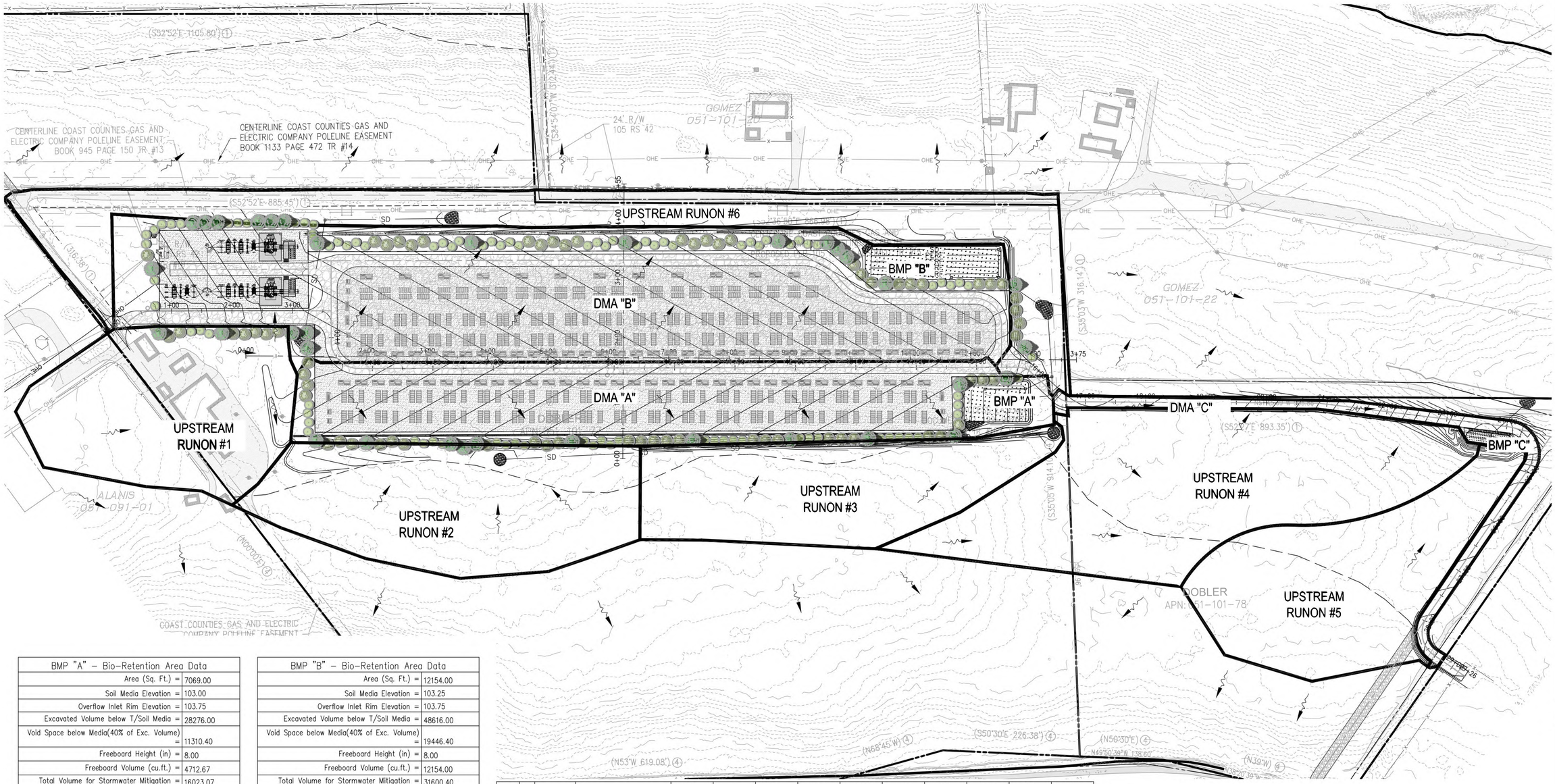
	12/12/24	MRM		SUBSTATION/BESS UPDATE
	12/09/24	MRM		CUP SUBMISSION
	07/02/25	C2G		CIVIL UPDATE

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-3.6

SITE SECTIONS



BMP "A" – Bio-Retention Area Data	
Area (Sq. Ft.) =	7069.00
Soil Media Elevation =	103.00
Overflow Inlet Rim Elevation =	103.75
Excavated Volume below T/Soil Media =	28276.00
Void Space below Media(40% of Exc. Volume) =	11310.40
Freeboard Height (in) =	8.00
Freeboard Volume (cu.ft.) =	4712.67
Total Volume for Stormwater Mitigation =	16023.07
Bottom of Trench Elevation =	99.00

BMP "B" – Bio-Retention Area Data	
Area (Sq. Ft.) =	12154.00
Soil Media Elevation =	103.25
Overflow Inlet Rim Elevation =	103.75
Excavated Volume below T/Soil Media =	48616.00
Void Space below Media(40% of Exc. Volume) =	19446.40
Freeboard Height (in) =	8.00
Freeboard Volume (cu.ft.) =	12154.00
Total Volume for Stormwater Mitigation =	31600.40
Bottom of Trench Elevation =	99.25

BMP "C" – Bio-Retention Area Data	
Area (Sq. Ft.) =	1250.00
Soil Media Elevation =	86.00
Overflow Inlet Rim Elevation =	86.50
Excavated Volume below T/Soil Media =	5000.00
Void Space below Media(40% of Exc. Volume) =	2000.00
Freeboard Height (in) =	8.00
Freeboard Volume (cu.ft.) =	1250.00
Total Volume for Stormwater Mitigation =	3250.00
Bottom of Trench Elevation =	82.00

HATCH LEGEND

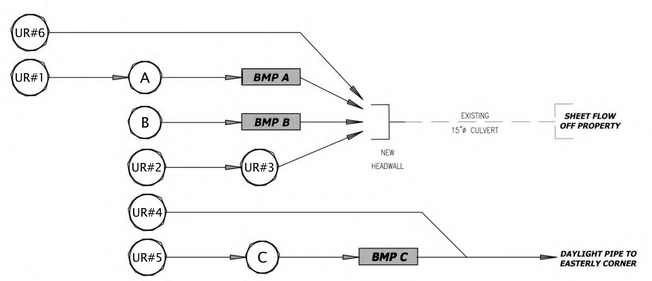
- MAIN DRIVE - COMPACTED BASEROCK
- CONCRETE PAD
- PEA GRAVEL WITH IMPERMEABLE LINER
- BIORETENTION
- RIPRAP
- CONCRETE DRAINAGE STRUCTURE
- EXISTING AC

STORM WATER MANAGEMENT

SCALE: 1"=80'

0 80 160

			A	B	C	UR #1	UR#2	UR#3	UR#4	UR#5	UR#6	TOTAL
PROPOSED	TOTAL AREA		164,350	310,744	27,019	104,596	119,037	98,814	169,376	108,237	143,960	1,246,133
	IMPERVIOUS AREA		127,483	235,410	25,354	35,298	0	2,696	0	1,315	19,765	447,321
		GRAVEL W/ IMPERMEABLE LINER	77,606	147,261	0	0	0	0	0	0	0	224,867
		FIRE ACCESS - COMPACTED BASEROCK	22,206	41,989	24,760	307	0	0	0	1,315	0	90,577
		AC	0	0	0	24,892	0	0	0	0	0	24,892
		BUILDING	0	0	0	10,099	0	0	0	0	0	10,099
		CONCRETE	27,671	46,160	594	0	0	2,696	0	0	0	77,121
		*EXISTING GRAVEL ROAD	0	0	0	0	0	0	0	0	19,765	19,765
	LANDSCAPE/NATURAL AREAS		36,867	75,334	1,665	69,298	119,037	96,118	169,376	106,922	124,195	798,812
	*(E) GRAVEL ROAD ASSUMED 60% IMPERVIOUS											
		RUNOFF COEFICIENT	0.75	0.74	0.86	0.47	0.25	0.27	0.25	0.26	0.34	0.48
		TIME OF CONCENTRATION	11	11	11	11	11	11	11	11	11	11
		RAINFALL INTENSITY (10YR)	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85
		RUNOFF RATE (CFS)	***5.264***	***9.798***	***0.987***	***2.085***	***1.264***	***1.124***	***1.798***	***1.186***	***2.074***	***25.579***
		(25 YR)	*6.317*	*11.758*	*1.184*	*2.502*	*1.517*	*1.348*	*2.158*	*1.423*	*2.489*	*30.695*
		(50 YR)	*7.107*	*13.227*	*1.332*	*2.815*	*1.706*	*1.517*	*2.428*	*1.600*	*2.800*	*34.532*
		(100 YR)	*7.896*	*14.697*	*1.480*	*3.127*	*1.896*	*1.685*	*2.698*	*1.778*	*3.111*	*38.369*



1 ONSITE DRAINAGE DIAGRAM

Scale: NTS

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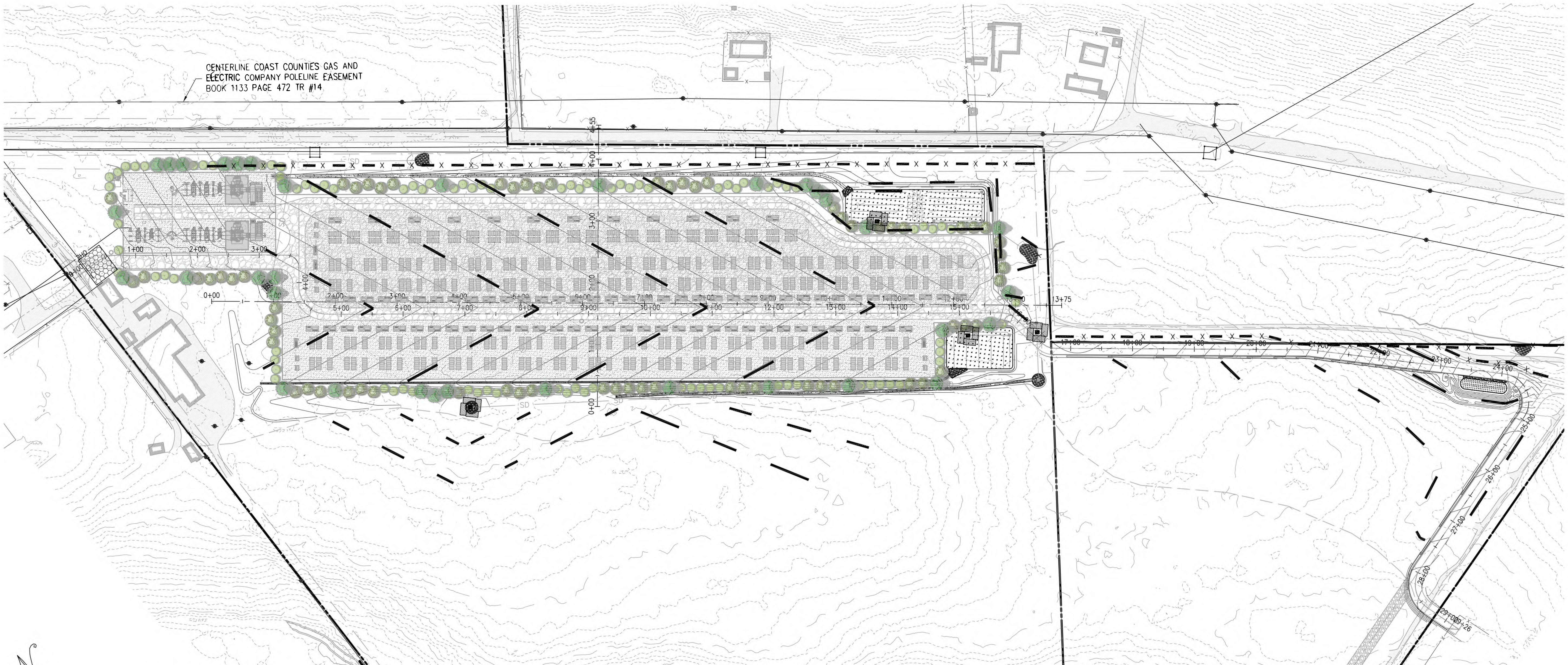
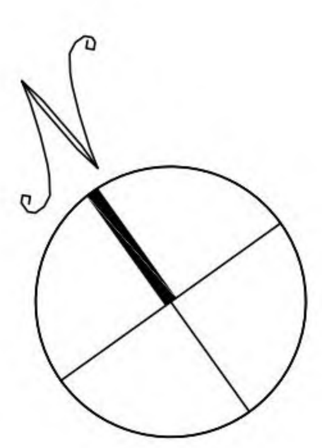
C-4.1
STORM WATER MANAGEMENT





EROSION CONTROL

SCALE: 1"=80'

0 80 160

EROSION CONTROL NOTES

CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPS): PROJECT CONSTRUCTION AND DEMOLITION ACTIVITIES SHALL COMPLY WITH THE CITY'S STORM WATER BEST MANAGEMENT PRACTICES FOR CONSTRUCTION.

EROSION & SEDIMENT CONTROL BMPS, SUCH AS FIBER ROLLS OR WATTLES, SHALL BE INSPECTED REGULARLY DURING CONSTRUCTION AND AFTER EACH SIGNIFICANT RAIN EVENT. MAKE NEEDED REPAIRS IMMEDIATELY.

CHECK THE SIDEWALK AND STREET DAILY DURING DEMOLITION AND CONSTRUCTION FOR SOIL DRAG-OUT, AND SWEEP IF NEEDED. ROUTINELY MAINTAIN THE CONSTRUCTION ENTRANCE/EXIT TO ENSURE IT REMAINS EFFECTIVE AT PREVENTING DRAG-OUT.

STORE OPEN BAGS OF PARTICULATE, GRANULAR OR POWDER MATERIALS (SUCH AS PLASTER OR CONCRETE) INDOORS IF POSSIBLE. IF STORED OUTSIDE, THEY MUST BE KEPT COVERED OR CLOSED, AND DURING THE RAINY SEASON KEPT WITHIN SECONDARY CONTAINMENT.

DUMPSTER LIDS MUST BE KEPT CLOSED AND SECURED WHEN NOT IN USE.

SOIL & MATERIAL STOCKPILES: SOIL AND MATERIALS STOCKPILES MUST BE PROTECTED FROM RUNOFF/RUN-ON, WHEN NOT IN USE, BY BMPS SUCH AS SURROUNDED BY BERMS, FIBER ROLLS OR WATTLES AND COVERED WITH SHEETING OR TARPS. SOIL STOCKPILES SHOULD BE STORED ON A FLAT AREA.

DURING THE RAINY SEASON, ENSURE THAT SEDIMENT CONTROL MEASURES ARE IN PLACE AND EFFECTIVE AT PREVENTING SEDIMENT FROM LEAVING THE SITE.

PERVIOUS PAVERS OR PAVEMENT: PROTECT PERVIOUS PAVERS OR PAVEMENT, ONCE INSTALLED, SO THAT ANY REMAINING CONSTRUCTION ACTIVITIES WILL NOT DAMAGE OR CLOG THE PAVERS/PAVEMENT.

CONSTRUCTION ENTRANCE/EXIT: INSTALL THE STABILIZED CONSTRUCTION ENTRANCE/EXIT AT THE PROJECT'S COMMENCEMENT.

PORTA-POTTIES: DO NOT LOCATE PORTA-POTTIES ADJACENT TO WATERCOURSES OR STORM DRAIN INLETS.

LEGEND

- SILT FENCE (4/C5.2)
- INLET SEDIMENT BARRIER
- FIBER ROLL (3/C5.2)
- DIRECTION OF FLOW WITH STORM DRAIN INSTALLED
- STABILIZED CONSTRUCTION ENTRANCE/EXIT (1/C5.2)
- SEDIMENT CATCHER (SAND BAGS) (2/C5.2)

SWPPP MANAGER TO MARK KNOWN LOCATIONS

- MATERIALS & EQUIPMENT STORAGE AREA
- SANITARY FACILITY
- CONCRETE/ WASTE WASHOUT

NOTE: SEE SHEET C5.2 FOR BMP NOTES AND DETAILS

new leaf energy
55 TECHNOLOGY DRIVE, SUITE 102
LOWELL, MA 01851
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NOT FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
No. C 64561
Exp. 6/30/25
CIVIL
STATE OF CALIFORNIA

SEAHAWK ENERGY STORAGE
90 MINTO ROAD
WATSONVILLE CA, 95076

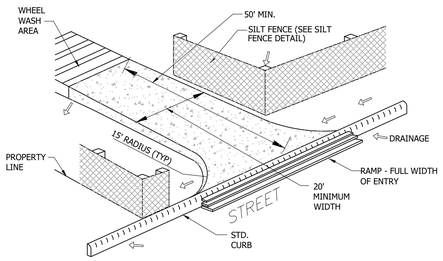
PROJECT NUMBER:
110-5227

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
	12/12/24	MRM		SUBSTATION/BESS UPDATE
	12/09/24	MRM		CUP SUBMISSION
	07/02/25	C2G		CIVIL UPDATE

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

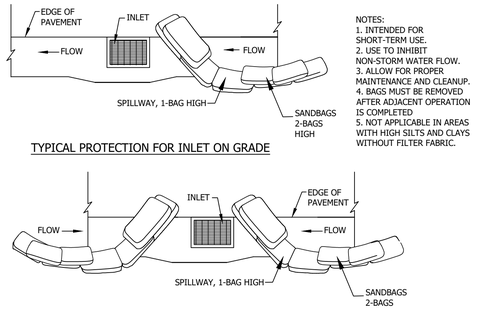
C-5.1

EROSION CONTROL



1 ROCKED CONSTRUCTION ENTRANCE

Scale: NTS



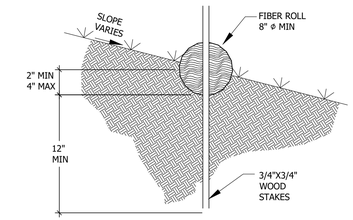
NOTES:
1. INTENDED FOR SHORT-TERM USE.
2. USE TO INHIBIT NON-STORM WATER FLOW.
3. ALLOW FOR PROPER MAINTENANCE AND CLEANUP.
4. BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETED
5. NOT APPLICABLE IN AREAS WITH HIGH SILTS AND CLAYS WITHOUT FILTER FABRIC.

TYPICAL PROTECTION FOR INLET ON GRADE

TYPICAL PROTECTION FOR INLET ON SUMP

2 INLET PROTECTION DETAIL

Scale: NTS



CONSTRUCTION SPECIFICATIONS

LOCATE FIBER ROLLS ON LEVEL CONTOURS SPACED AS FOLLOWS:

- SLOPE INCLINATION OF 4 :1 (H:V) OR FLATTER: FIBER ROLLS SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 20 FT.

- SLOPE INCLINATION BETWEEN 4:1 AND 2:1 (H:V) FIBER ROLLS SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 15 FT. (A CLOSER SPACING IS MORE EFFECTIVE).

- SLOPE INCLINATION OF 2:1 (H:V) OR GREATER: FIBER ROLLS SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 10 FT. (A CLOSER SPACING IS MORE EFFECTIVE).

- TURN THE ENDS OF THE FIBER ROLL UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE ROLL. STAKE FIBER ROLLS INTO A 2 TO 4 IN. DEEP TRENCH WITH A WIDTH EQUAL TO THE DIAMETER OF THE FIBER ROLL.

- DRIVE STAKES AT THE END OF EACH FIBER ROLL AND SPACED 4 FT MAXIMUM ON CENTER.

- USE WOOD STAKES WITH A NOMINAL CLASSIFICATION OF 0.75 BY 0.75 IN. AND A MINIMUM LENGTH OF 24 IN.

- IF MORE THAN ONE FIBER ROLL IS PLACED IN A ROW, THE ROLLS SHOULD BE OVERLAPPED, NOT ABUTTED. REPAIR OR REPLACE SPLIT, TORN, UNRAVELING OR SLUMPING FIBER ROLLS.

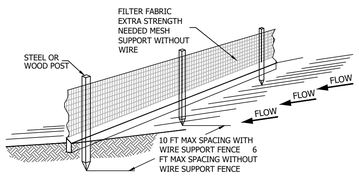
IF THE FIBER ROLL IS USED AS A SEDIMENT CAPTURE DEVICE, OR AS AN EROSION CONTROL DEVICE TO MAINTAIN SHEET FLOWS, SEDIMENT THAT ACCUMULATES IN THE BMP MUST BE PERIODICALLY REMOVED IN ORDER TO MAINTAIN BMP EFFECTIVENESS. SEDIMENT SHOULD BE REMOVED WHEN SEDIMENT ACCUMULATION REACHES ONE-HALF THE DESIGNATED SEDIMENT STORAGE DEPTH, USUALLY ONE-HALF THE DISTANCE BETWEEN THE TOP OF THE FIBER ROLL AND THE ADJACENT GROUND SURFACE. SEDIMENT REMOVED DURING THE MAINTENANCE MAY BE INCORPORATED INTO EARTHWORK ON THE SITE OR DISPOSED AT AN APPROPRIATE LOCATION.

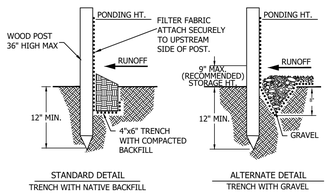
3 FIBER ROLLS

Scale: NTS

NOTE:

1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED AT AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE REPLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.





CONSTRUCTION SPECIFICATIONS

THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES. STORAGE HEIGHT SHALL NEVER EXCEED 18". THE FENCE LINE SHALL FOLLOW THE CONTOUR AS CLOSELY AS POSSIBLE.

IF POSSIBLE, THE FILTER FABRIC SHALL BE CUT FROM A CONTINUOUS ROLL TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP AND BOTH ENDS SECURELY FASTENED TO THE POST.

POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET. TURN THE ENDS OF THE FENCE UPHILL.

A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.

WHEN STANDARD-STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

THE STANDARD-STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 6 INCHES OF THE FABRIC SHALL EXTEND INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.

WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS.

THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE TOE OF THE FILTER FABRIC.

SILT FENCES PLACED AT THE TOE OF A SLOPE SHALL BE SET AT LEAST 6 FEET FROM THE TOE IN ORDER TO INCREASE PONDING VOLUME.

SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED, AND ANY SEDIMENT STORED BEHIND THE SILT FENCE HAS BEEN REMOVED.

INSPECTION AND MAINTENANCE

SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED WEEKLY AND AFTER EACH SIGNIFICANT STORM (1" IN 24 HR.). ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/3 HEIGHT OF THE FENCE OR 9 INCHES MAXIMUM.

THE REMOVED SEDIMENT SHALL VEGETATE OR OTHERWISE STABILIZED.

4 SILT FENCE

Scale: NTS

EROSION CONTROL BMP'S

ALL CONSTRUCTION SITES

DELINEATE CLEARING LIMITS, SENSITIVE OR CRITICAL AREAS, TREES, DRAINAGE COURSES, AND BUFFER ZONES TO PREVENT EXCESSIVE OR UNNECESSARY DISTURBANCE AND EXPOSURE OF SOIL.

1. IDENTIFY ALL STORM DRAINS, DRAINAGE SWALES AND CREEKS LOCATED NEAR THE CONSTRUCTION SITE AND MAKE SURE ALL SUBCONTRACTORS ARE AWARE OF THEIR LOCATIONS TO PREVENT POLLUTANTS FROM ENTERING THEM.
2. PRESERVE EXISTING VEGETATION, WHERE REQUIRED AND WHEN FEASIBLE, TO THE MAXIMUM EXTENT PRACTICABLE.
3. PHASE GRADING OPERATIONS, TO THE EXTENT POSSIBLE, TO LIMIT AREAS OF DISTURBANCE AND TIME OF EXPOSURE
4. AVOID AND/OR MINIMIZE IMPACTS OF EXCAVATION AND GRADING DURING WET WEATHER AND IMMEDIATELY PRECEDING EXPECTED WET WEATHER.
5. MINIMIZE CUTS AND FILLS.
6. IMPLEMENT MEASURES TO MINIMIZE EROSION, MANAGE STORM WATER RUNOFF, AND PREVENT POLLUTANTS FROM CONSTRUCTION ACTIVITIES FROM ENTERING STORM DRAINS.
7. ALIGN TEMPORARY AND PERMANENT ROADS AND DRIVEWAYS ALONG SLOPE CONTOURS.
8. WASH VEHICLES AT AN APPROPRIATE OFF-SITE FACILITY. IF EQUIPMENT MUST BE WASHED ON-SITE, USE WASH DOWN AREAS DEVELOPED FOR SPECIFIC SITE REQUIREMENTS AND APPROVED BY THE CITY REPRESENTATIVE. DO NOT USE SOAPS, SOLVENTS, DEGREASERS, OR STEAM CLEANING EQUIPMENT, AND PREVENT WASH WATER FROM ENTERING STORM DRAINS.

MINIMIZE SOIL MOVEMENT

1. STOCKPILED SOIL AND MATERIALS SHOULD BE COVERED AND STABILIZED WITH TARPS, GEOTEXTILE FABRIC, HYDROSEEDING AND/OR EROSION CONTROL BLANKETS.
2. CREATE A BERM AND/OR INSTALL SILT FENCING AROUND STOCKPILED MATERIALS TO PREVENT STORM WATER RUNOFF FROM TRANSPORTING SEDIMENT OFFSITE.
3. USE STANDARD EROSION CONTROL SEEDING, PLANTING, MULCHING, GEOTEXTILE FABRIC AND/OR EROSION CONTROL BLANKETS TO STABILIZE DISTURBED SOIL AND REDUCE THE POTENTIAL FOR EROSION.
4. USE OTHER SOIL STABILIZERS AS APPROVED BY THE CITY OF CAPITOLA.

STRUCTURES TO CONTROL AND CONVEY RUNOFF

1. CONVEY RUNOFF BY USE OF EARTH DIKES, DRAINAGE SWALES AND/OR DITCHES WHEN FEASIBLE.
2. USE SLOPE DRAINS TO COLLECT AND CONVEY WATER FOR DISCHARGE BELOW SLOPES WHEN FEASIBLE.
3. USE VELOCITY DISSIPATION DEVICES, FLARED CULVERT END SECTIONS AND/OR CHECK DAMS TO REDUCE RUNOFF VELOCITY AND MITIGATE EROSION WHEN FEASIBLE.

CAPTURE SEDIMENT

1. USE TERRACING, RIPRAP, SAND BAGS, ROCKS, APPROVED TEMPORARY VEGETATION AND/OR OTHER APPROVED BMP'S ON SLOPES TO REDUCE RUNOFF VELOCITY AND TRAP SEDIMENTS. DO NOT USE ASPHALT RUBBLE OR OTHER DEMOLITION DEBRIS FOR THIS PURPOSE.
2. PROTECT STORM DRAIN INLETS FROM SEDIMENT-LADEN RUNOFF. STORM DRAIN INLET PROTECTION DEVICES INCLUDE GRAVEL BAGS, FILTER FABRIC FENCES AND BLOCK AND GRAVEL FILTERS.

OTHER RUNOFF CONTROLS

1. TEMPORARY SEDIMENT BASIN
2. SEDIMENT TRAP
3. BRUSH OR ROCK FILTER
4. SILT FENCE
5. SAND OR GRAVEL BAG BARRIER

TRACKING CONTROL

1. IMPLEMENT MEASURES AS NECESSARY TO MINIMIZE TRACKING OF SOIL OFF SITE
2. USE DRY SWEEPING METHODS WHEN CLEANING SEDIMENTS FROM STREETS, DRIVEWAYS AND PAVED AREAS BY HAND. WHEN USING MECHANICAL STREET SWEEPERS, USE FINE WATER SPRAY TO REDUCE DUST AND IMPROVE SEDIMENT REMOVAL WHILE MINIMIZING RUNOFF.

PAINT WORK

1. DO NOT CLEAN PAINT BRUSHES OR RINSE PAINT CONTAINERS INTO A STREET, GUTTER, STORM DRAIN, OR CREEK.
2. FOR WATER-BASED PAINTS, PAINT OUT BRUSHES TO THE EXTENT POSSIBLE AND RINSE TO A DRAIN LEADING TO THE SANITARY SEWER (I.E., INDOOR PLUMBING).
3. FOR OIL-BASED PAINTS, PAINT OUT BRUSHES TO THE EXTENT POSSIBLE, AND FILTER AND REUSE THINNERS AND SOLVENTS. DISPOSE OF UNUSABLE THINNERS, OIL-BASED PAINT, SLUDGES AND RESIDUE AS HAZARDOUS WASTE.
4. NON-HAZARDOUS PAINT CHIPS AND DUST FROM DRY STRIPPING AND SAND BLASTING MAY BE SWEPT UP OR COLLECTED IN PLASTIC DROP CLOTHS AND DISPOSED OF AS TRASH. CHEMICAL PAINT STRIPPING RESIDUE AND CHIPS AND DUST FROM MARINE PAINTS OR PAINTS CONTAINING LEAD OR TRIBUTYL TIN MUST BE DISPOSED OF AS A HAZARDOUS WASTE.
5. WHEN STRIPPING OR CLEANING BUILDING EXTERIORS WITH HIGH-PRESSURE WATER, COVER OR BERM STORM DRAIN INLETS. COLLECT (MOP OR VACUUM) BUILDING CLEANING WATER FOR DISPOSAL IN A PRE-AUTHORIZED MANNER.
6. RECYCLE, RETURN TO SUPPLIER OR DONATE UNWANTED WATER-BASED (LATEX) PAINT.
7. DRIED LATEX PAINT MAY BE DISPOSED OF IN THE TRASH.

CEMENT AND CONCRETE WORK

1. AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE OR CEMENT MORTAR ON-SITE.
2. STORE DRY AND WET CONCRETE AND CEMENT UNDER COVER, PROTECTED FORM RAINFALL AND RUNOFF.
3. WASH OUT CONCRETE TRANSIT MIXERS ONLY IN DESIGNATED WASH-OUT AREAS. WHENEVER POSSIBLE, RECYCLE WASHOUT BY PUMPING BACK INTO MIXERS FOR REUSE. DO NOT DISPOSE OF WASHOUT INTO THE STREET, STORM DRAINS, DRAINAGE DITCHES, OR CREEKS. DESIGNATED WASH-OUT AREAS MUST BE MAINTAINED TO PREVENT OVER FLOW.
4. WHENEVER POSSIBLE, RETURN CONTENTS OF MIXER BARREL TO THE OFF-SITE YARD FOR RECYCLING. DISPOSE OF SMALL AMOUNTS OF EXCESS CONCRETE, GROUT, AND MORTAR IN THE TRASH.

ROADWORK/PAVEMENT

5. APPLY CONCRETE, ASPHALT, AND SEAL COAT DURING DRY WEATHER TO PREVENT CONTAMINANTS FROM CONTACTING STORMWATER RUNOFF.
6. COVER STORM DRAIN INLETS AND MANHOLES WHEN PAVING OR APPLYING SEAL COAT, SLURRY SEAL, FOG SEAL, AND SIMILAR MATERIALS.
7. ALWAYS PARK PAVING MACHINES OVER DRIP PANS OR ABSORBENT MATERIALS, SINCE THEY TEND TO DRIP CONTINUOUSLY.
8. WHEN MAKING SAW-CUTS IN PAVEMENT, USE AS LITTLE WATER AS POSSIBLE. COVER POTENTIALLY AFFECTED STORM DRAIN INLETS COMPLETELY WITH FILTER FABRIC DURING THE SAWING OPERATION AND CONTAIN THE SLURRY BY WET-VACUUMING, OR BY PLACING STRAW BALES, SANDBAGS, OR GRAVEL DAMS AROUND THE CATCH BASINS. AFTER THE LIQUID DRAINS OR EVAPORATES, SHOVEL OR VACUUM THE SLURRY RESIDUE FROM THE PAVEMENT OR GUTTER AND REMOVE FROM SITE.
9. WASH DOWN EXPOSED AGGREGATE CONCRETE ONLY WHEN THE WASH WATER CAN: (1) FLOW ONTO A DIRT AREA; (2) DRAIN ONTO A BERMED SURFACE FROM WHICH IT CAN BE PUMPED AND DISPOSED OF PROPERLY; OR (3) BE VACUUMED FROM THE AREA ALONG THE CURB WHERE SEDIMENT HAS ACCUMULATED BY BLOCKING A STORM DRAIN INLET.
10. ALLOW AGGREGATE RINSE TO SETTLE, AND PUMP THE WATER TO THE SANITARY SEWER IF ALLOWED BY YOUR LOCAL WASTEWATER AUTHORITY.
11. DO NOT WASH SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO A STREET OR STORM DRAIN. COLLECT AND RETURN TO AGGREGATE BASE STOCKPILE, OR DISPOSE WITH TRASH.
12. RECYCLE BROKEN CONCRETE AND ASPHALT.

HAZARDOUS MATERIAL SPILL PREVENTION, SPILL REPORTING AND RESPONSE

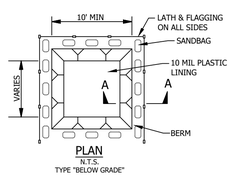
1. ALL HAZARDOUS MATERIALS SHALL BE STORED SO THAT THEY ARE PROTECTED FROM INCLEMENT WEATHER AND VANDALISM.
2. MOTOR VEHICLES SHALL NOT BE FUELED ON THE PROJECT SITE.
3. SPILL CONTAINMENT MEASURES MUST BE MADE PRIOR TO FUELING WHEN FUELING EQUIPMENT OTHER THAN MOTOR VEHICLES.
4. VEHICLE MAINTENANCE, OTHER THAN EMERGENCY REPAIRS, SHALL NOT BE PERFORMED ON THE PROJECT SITE.
5. APPROPRIATE EMERGENCY SPILL CONTAINMENT SUPPLIES SHALL BE MAINTAINED ON SITE BY THE CONTRACTOR.
6. SPILLS GREATER THAN ONE QUART SHALL BE IMMEDIATELY REPORTED TO THE CITY'S REPRESENTATIVE AND COUNTY INSPECTOR.
7. SPILLS SHALL BE DIKED OR CONTAINED BY TRAINED PERSONNEL TO PREVENT THE SPILLED HAZARDOUS MATERIAL FROM ENTERING THE STORM WATER SYSTEM OR LEAVING THE PROJECT SITE.
8. SPILLS OF LESS THAN FIVE (5) GALLONS SHALL BE ABSORBED USING AN APPROPRIATE MATERIAL. ALL CONTAMINATED MATERIALS SHALL BE CONTAINERIZED, REMOVED FROM THE JOBSITE AND DISPOSED IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
9. SPILLS IN EXCESS OF FIVE (5) GALLONS SHALL BE ABSORBED USING AN APPROPRIATE MATERIAL AND PLACED IN CONTAINERS UNDER THE DIRECTION OF THE COUNTY OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY.
10. ANY CONTAMINATED SOIL SHALL BE REMOVED BY THE CONTRACTOR AND REPLACED WITH ACCEPTABLE FRESH SOIL.
11. RESPONSE SHALL BE CARRIED OUT BY APPROPRIATELY TRAINED PERSONNEL UTILIZING SAFE PRACTICES.

GOOD HOUSEKEEPING PRACTICES

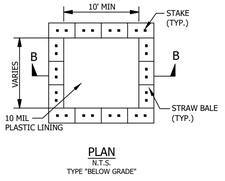
1. DO NOT WASH DOWN PAVEMENT OR SURFACES WHERE SILT HAS BEEN DEPOSITED OR MATERIALS HAVE SPILLED. USE DRY CLEANUP METHODS.
2. AVOID CONTAMINATING CLEAN RUNOFF FROM AREAS ADJACENT TO YOUR SITE BY USING BERMS AND/OR TEMPORARY OR PERMANENT DRAINAGE DITCHES TO DIVERT WATER FLOW AROUND THE SITE.
3. COVER EXPOSED PILES OF SOIL, CONSTRUCTION MATERIALS AND WASTES WITH PLASTIC SHEETING OR TEMPORARY ROOFS. BEFORE IT RAINS, SWEEP AND REMOVE MATERIALS FROM SURFACES THAT DRAIN TO STORM DRAINS, CREEKS, OR CHANNELS.
4. PLACE TRASH CANS AROUND THE SITE TO REDUCE POTENTIAL LITTER. DISPOSE OF NON-HAZARDOUS CONSTRUCTION WASTES IN COVERED DUMPSTERS OR RECYCLING RECEPTACLES. RECYCLE LEFTOVER MATERIALS WHENEVER POSSIBLE.
5. DISPOSE OF ALL WASTES PROPERLY. MATERIALS THAT CAN NOT BE REUSED OR RECYCLED MUST BE TAKEN TO AN APPROPRIATE LANDFILL OR DISPOSED OF AS HAZARDOUS WASTE, AS APPROPRIATE.
6. COVER OPEN DUMPSTERS WITH PLASTIC SHEETING OR A TARP DURING RAINY WEATHER. SECURE THE SHEETING OR TARP AROUND THE OUTSIDE OF THE DUMPSTER. IF THE DUMPSTER HAS A COVER, CLOSE IT.
7. TRAIN YOUR EMPLOYEES AND INFORM CONTRACTORS AND SUBCONTRACTORS ABOUT STORM WATER MANAGEMENT REQUIREMENTS AND THEIR RESPONSIBILITIES FOR COMPLIANCE.

EROSION CONTROL NOTE

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AND MAINTAIN EROSION CONTROL MEASURES AS REQUIRED THROUGHOUT THE LIFE OF THE PROJECT IN CONFORMANCE WITH THE CITY OF SCOTTS VALLEY AND THE ASSOCIATION OF BAY AREA GOVERNMENTS
2. CONTRACTOR TO PROVIDE BACK-UP EROSION PREVENTION MEASURES (SOIL STABILIZATION) WITH SEDIMENT CONTROL MEASURES SUCH AS STRAW WATTLES, SILT FENCE, GRAVEL INLET FILTERS, AND/OR SEDIMENT TRAPS OR BASINS. ENSURE CONTROL MEASURES ARE ADEQUATE, IN PLACE, AND IN OPERABLE CONDITIONS. SEDIMENT CONTROLS, INCLUDING INLET PROTECTION, ARE NECESSARY BUT SHOULD BE A SECONDARY DEFENSE BEHIND GOOD EROSION CONTROL MEASURES.
3. ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED THROUGHOUT THE SEASON. REPLACEMENT SUPPLIES SHOULD BE KEPT ON SITE.
4. SITE INSPECTIONS SHALL BE CONDUCTED BEFORE AND AFTER EACH STORM EVENT, AND EVERY 24 HOURS FOR EXTENDED STORM EVENTS, TO IDENTIFY AREAS THAT CONTRIBUTE TO EROSION AND SEDIMENT PROBLEMS OR ANY OTHER POLLUTANT DISCHARGES. IF ADDITIONAL MEASURES ARE NEEDED, REVISE THE EROSION CONTROL PLAN AND IMPLEMENT THE MEASURES IMMEDIATELY. DOCUMENT ALL INSPECTION FINDINGS AND ACTIONS TAKEN.
5. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES DURING CONSTRUCTION FOR CONTROL OF STORM WATER RUNOFF (E.G. GRAVEL BAGS AT CATCH BASIN INLETS).



PLAN
N.T.S.
TYPE "BELOW GRADE"



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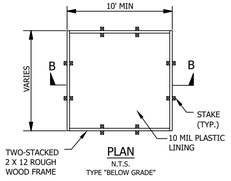

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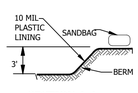
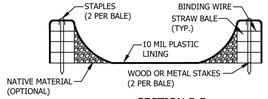
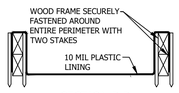


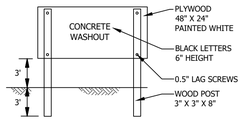
SECTION A-A
N.T.S.



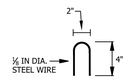
SECTION B-B
N.T.S.



SECTION B-B
N.T.S.



CONCRETE WASHOUT SIGN DETAIL
(OR EQUIVALENT)



STAPLE DETAIL

NOTES

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

5 CONCRETE WASHOUT

Scale: NTS

new leaf energy
55 TECHNOLOGY DRIVE, SUITE 102
LOWELL, MA 01851
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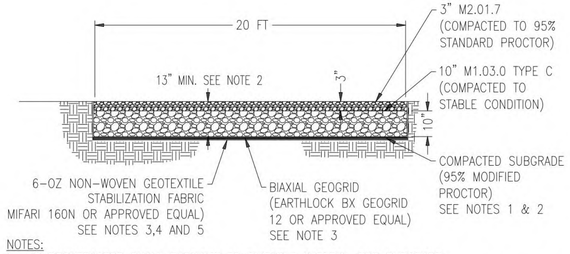
	12/12/24	MRM		SUBSTATION/BESS UPDATE
	12/09/24	MRM		CUP SUBMISSION
	07/02/25	CJG		CIVIL UPDATE

USA NORTH 811 Call 811 Before You Dig

C-5.2

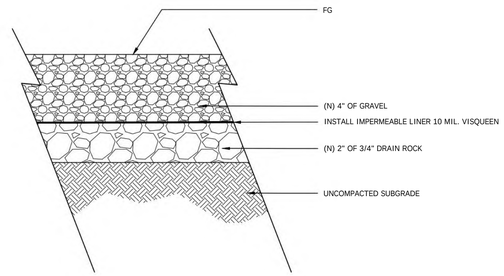
EROSION CONTROL DETAILS



NOTES:
1. SUBCONTRACTOR SHALL EXCAVATE TO SUITABLE MATERIAL FOR SUBGRADE.
2. SUBCONTRACTOR SHALL COMPACT SUBGRADE TO PROVIDE SUITABLE SURFACE TO PLACE ROAD. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPERATION CRITERIA.
3. SUBCONTRACTOR SHALL FOLLOW MANUFACTURER INSTALLATION PROCEDURES.
4. WHERE OVERLAPPING OF GEOTEXTILE FABRIC IS REQUIRED, SUBCONTRACTOR SHALL OVERLAP A MINIMUM OF 24".
5. SUBCONTRACTOR SHALL REMOVE TEMPORARY CONSTRUCTION ACCESS ROADS, AND RESTORE TO PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CEOR AND THE GOVERNING AGENCIES.
6. SUBCONTRACTOR SHALL INSTALL CONDUITS FOR ALL ELECTRICAL CONDUIT CROSSINGS PRIOR TO INSTALLATION OF THE GEOGRID MATERIAL. THE GEOGRID SHALL NOT BE HORIZONTALLY CUT ONCE INSTALLED.

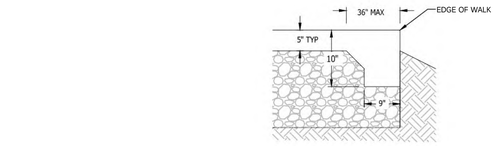
1 BASEROCK ACCESS ROAD

Scale: NTS

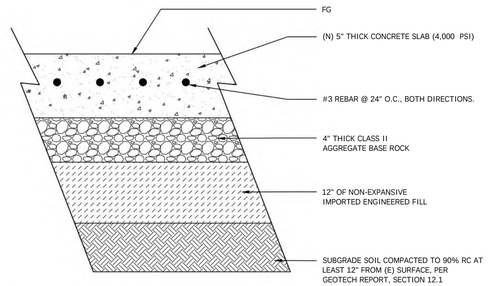


2 GRAVEL SECTION

Scale: NTS

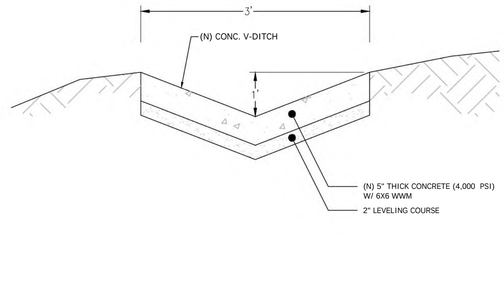


THICKENED EDGE @ SWALE



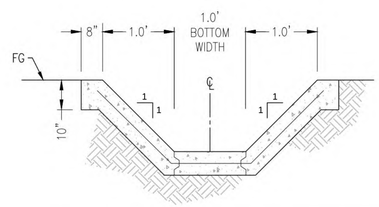
3 EQUIPMENT PAD

Scale: NTS

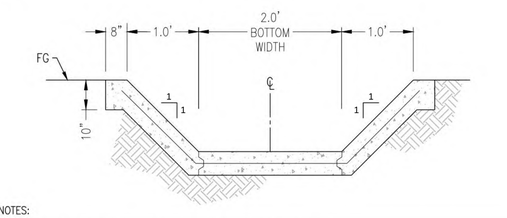


4 CONCRETE V-DITCH

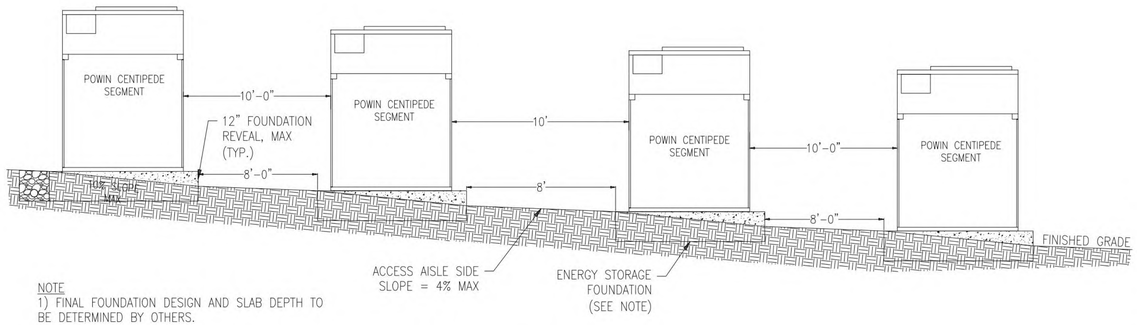
Scale: NTS



NOTES:
1. IN HORIZONTAL CURVES, SLOPE BOTTOM TOWARD INSIDE CURVE.
2. CONSTRUCTION JOINTS SHOWN FOR CONVENIENCE ONLY, MONOLITHIC CONSTRUCTION MAY BE USED.
3. ALL VISIBLE SURFACES SHALL HAVE A BROOM FINISH.
4. REINFORCING SHALL BE #4 BARS AT 12" O.C. EACH WAY, UNLESS OTHERWISE SPECIFIED. REINFORCING SHALL CONFORM TO ASTM A-615 AND BE A MINIMUM GRADE OF 60 PER ASTM-370. REINFORCING STEEL BAR LAPS TO BE 30 BAR DIAMETERS, AND 50% OF INTERSECTIONS TO BE SECURED WITH TIE WIRE.
5. CONCRETE SHALL BE 3000 PSI, 28-DAY STRENGTH, 6 SACK CEMENT PER CU.YD. MINIMUM AND 3" TO 5" SLUMP FOR HAND POURS.
6. EXPANSION JOINTS SHALL BE PLACED EVERY 500' MAXIMUM



NOTES:
1. IN HORIZONTAL CURVES, SLOPE BOTTOM TOWARD INSIDE CURVE.
2. CONSTRUCTION JOINTS SHOWN FOR CONVENIENCE ONLY, MONOLITHIC CONSTRUCTION MAY BE USED.
3. ALL VISIBLE SURFACES SHALL HAVE A BROOM FINISH.
4. REINFORCING SHALL BE #4 BARS AT 12" O.C. EACH WAY, UNLESS OTHERWISE SPECIFIED. REINFORCING SHALL CONFORM TO ASTM A-615 AND BE A MINIMUM GRADE OF 60 PER ASTM-370. REINFORCING STEEL BAR LAPS TO BE 30 BAR DIAMETERS, AND 50% OF INTERSECTIONS TO BE SECURED WITH TIE WIRE.
5. CONCRETE SHALL BE 3000 PSI, 28-DAY STRENGTH, 6 SACK CEMENT PER CU.YD. MINIMUM AND 3" TO 5" SLUMP FOR HAND POURS.
6. EXPANSION JOINTS SHALL BE PLACED EVERY 500' MAXIMUM

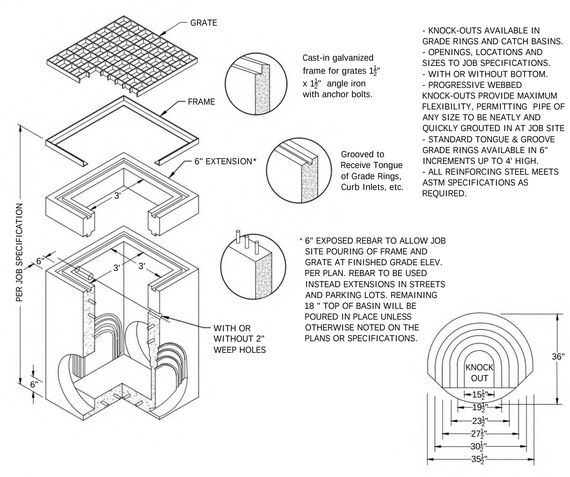


NOTE
1) FINAL FOUNDATION DESIGN AND SLAB DEPTH TO BE DETERMINED BY OTHERS.

SECTION VIEW

5 ENERGY STORAGE PAD CROSS SECTION

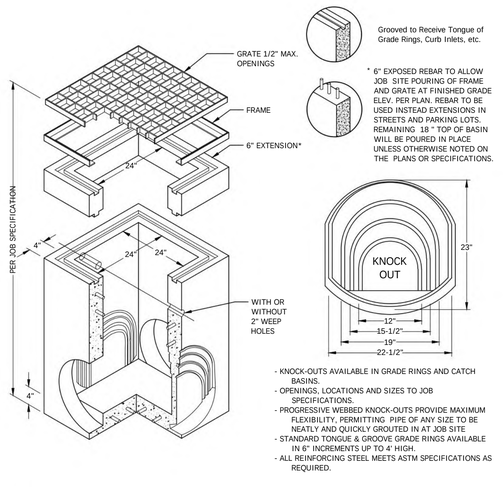
Scale: NTS



- KNOCK-OUTS AVAILABLE IN GRADE RINGS AND CATCH BASINS.
- OPENINGS, LOCATIONS AND SIZES TO JOB SPECIFICATIONS.
- WITH OR WITHOUT BOTTOM.
- PROGRESSIVE WEBBED KNOCK-OUTS PROVIDE MAXIMUM FLEXIBILITY, PERMITTING PIPE OF ANY SIZE TO BE NEATLY AND QUICKLY GROUTED IN AT JOB SITE
- STANDARD TONGUE & GROOVE GRADE RINGS AVAILABLE IN 6" INCREMENTS UP TO 4' HIGH.
- ALL REINFORCING STEEL MEETS ASTM SPECIFICATIONS AS REQUIRED.

8 STORM DRAIN INLET (U43 CHRISTY BOX)

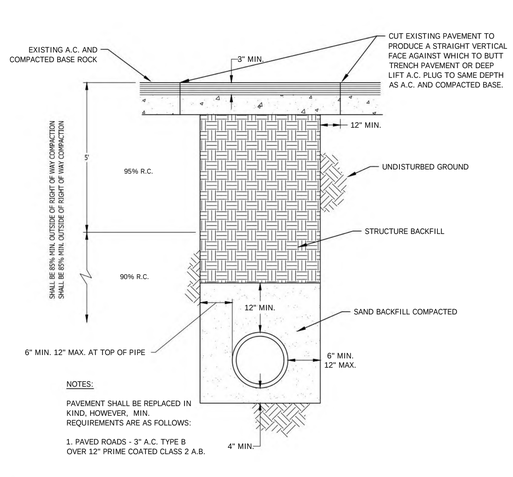
Scale: NTS



- KNOCK-OUTS AVAILABLE IN GRADE RINGS AND CATCH BASINS.
- OPENINGS, LOCATIONS AND SIZES TO JOB SPECIFICATIONS.
- PROGRESSIVE WEBBED KNOCK-OUTS PROVIDE MAXIMUM FLEXIBILITY, PERMITTING PIPE OF ANY SIZE TO BE NEATLY AND QUICKLY GROUTED IN AT JOB SITE
- STANDARD TONGUE & GROOVE GRADE RINGS AVAILABLE IN 6" INCREMENTS UP TO 4' HIGH.
- ALL REINFORCING STEEL MEETS ASTM SPECIFICATIONS AS REQUIRED.

9 STORM DRAIN INLET (U21 CHRISTY BOX)

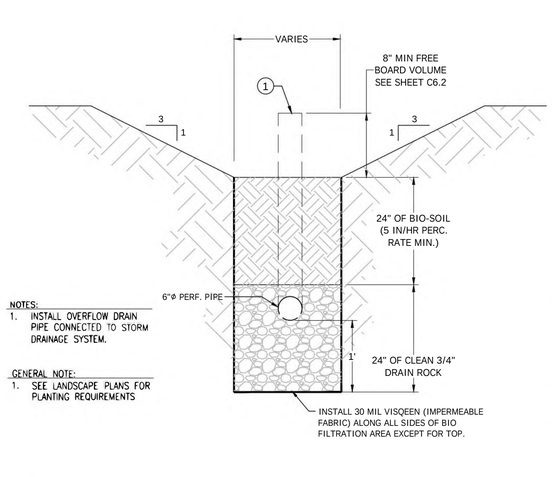
Scale: NTS



NOTES:
PAVEMENT SHALL BE REPLACED IN KIND, HOWEVER, MIN. REQUIREMENTS ARE AS FOLLOWS:
1. PAVED ROADS - 3" A.C. TYPE B OVER 12" PRIME COATED CLASS 2 A.B.

10 UTILITY TRENCH INSTALLATION

Scale: NTS



NOTES:
1. INSTALL OVERFLOW DRAIN PIPE CONNECTED TO STORM DRAINAGE SYSTEM.

GENERAL NOTE:
1. SEE LANDSCAPE PLANS FOR PLANTING REQUIREMENTS

11 BIO RETENTION SECTION

Scale: NTS

new leaf energy
55 TECHNOLOGY DRIVE, SUITE 102
LOWELL, MA 01851
PHONE: (800) 818-5249
FAX: (888) 678-8951
WWW.NEWLEAFENERGY.COM

NOT FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
No. C 64561
Exp. 6/30/25
CIVIL
STATE OF CALIFORNIA

SEAHAWK ENERGY STORAGE
90 MINTO ROAD
WATSONVILLE CA, 95076

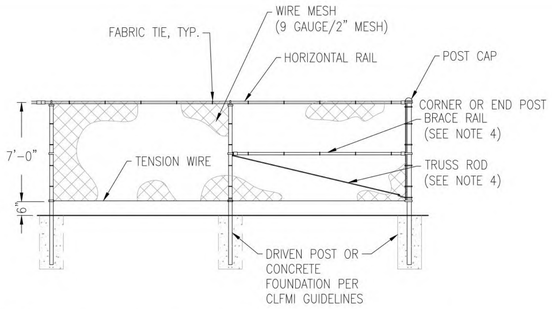
REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
	03/25/26	MRM		GEN-TIE UPDATE
	12/12/24	MRM		SUBSTATION/BESS UPDATE
	12/09/24	MRM		CUP SUBMISSION
	07/02/25	C2G		CIVIL UPDATE

PROJECT NUMBER: 110-5227

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-6.1

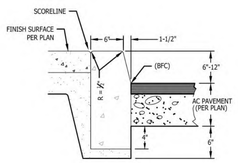
CONSTRUCTION DETAILS



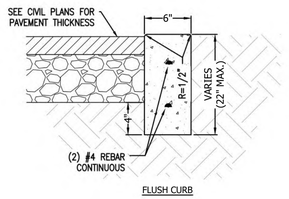
NOTES:
1. THE FENCE SHALL MEET OR EXCEED THE CHAIN LINK FENCE MANUFACTURER INSTITUTE (CLFMI) GUIDELINES AND RELATED FEDERAL SPECIFICATIONS FOR SECURITY CHAIN LINK FENCE MATERIALS AND INSTALLATION.
2. FENCE MATERIAL AND COMPONENTS SHALL BE GALVANIZED, UNLESS OTHERWISE NOTED.
3. THIS DETAIL NOT APPLICABLE FOR PRIVACY FENCE OR FENCE WITH SLATS.
4. ADJUSTABLE TRUSS ROD AND BRACE RAIL AT CORNER OR END POSTS ONLY, IF REQUIRED BY CLFMI GUIDELINES.

1 7' CHAIN LINK FENCE

Scale: NTS



TYPE C CURB

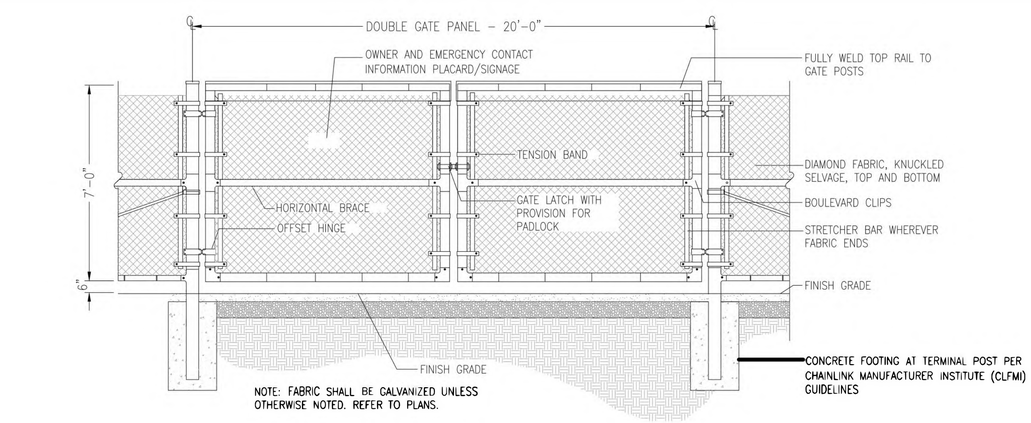


FLUSH CURB

NOTES:
1. TYPE C CURB ARE TO BE CONSTRUCTED OF CLASS B CONCRETE, 6 SACK MINIMUM.
2. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 20' INTERVALS, AND AT THE ENDS OF RETURNS. EXPANSION JOINTS SHALL BE AT MAXIMUM 60 FEET SPACING.

4 CONCRETE CURB AND GUTTER TYPES

Scale: NTS

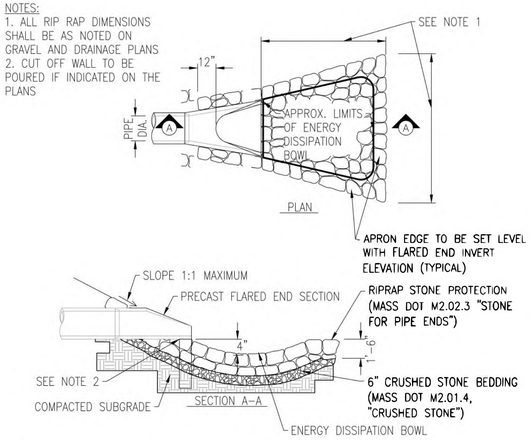


NOTE: FABRIC SHALL BE GALVANIZED UNLESS OTHERWISE NOTED. REFER TO PLANS.

2 20' VEHICLE ACCESS GATE

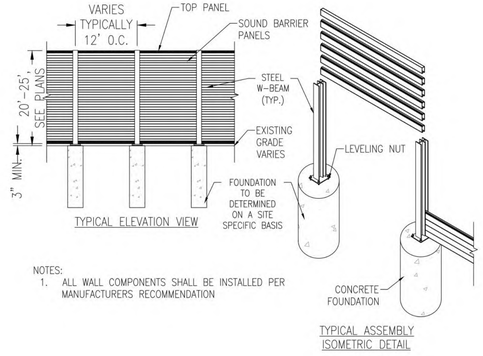
Scale: NTS

NOTES:
1. ALL RIP RAP DIMENSIONS SHALL BE AS NOTED ON GRAVEL AND DRAINAGE PLANS
2. CUT OFF WALL TO BE POURED IF INDICATED ON THE PLANS



5 FLARED-END SECTION W/ RIP RAP APRON

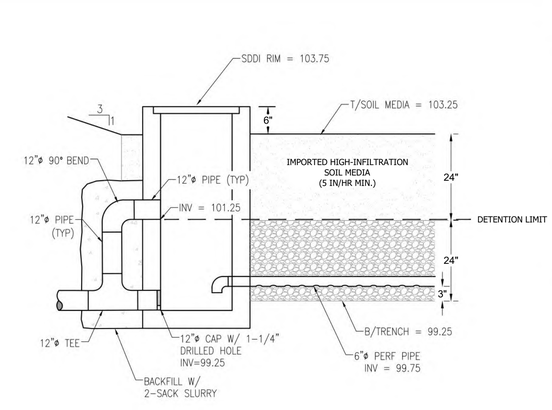
Scale: NTS



NOTES:
1. ALL WALL COMPONENTS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATION

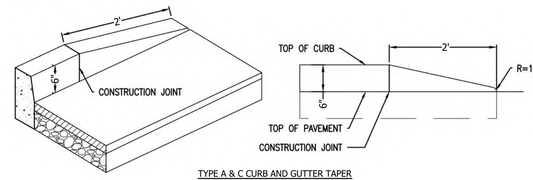
6 SOUND WALL

Scale: NTS

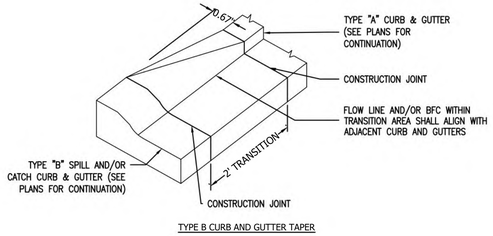


3 RESTRICTOR INLET W/ OVERFLOW

Scale: NTS



TYPE A & C CURB AND GUTTER TAPER



TYPE B CURB AND GUTTER TAPER

7 CURB TAPER DETAIL

Scale: NTS

8 SUBSTATION PROFILE

Scale: NTS

new leaf energy
55 TECHNOLOGY DRIVE, SUITE 102
LOWELL, MA 01851
PHONE: (800) 818-5249
FAX: (888) 678-8991
WWW.NEWLEAFENERGY.COM

NOT FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
No. C 64561
Exp. 6/30/25
CIVIL
STATE OF CALIFORNIA

SEAHAWK ENERGY STORAGE
90 MINTO ROAD
WATSONVILLE CA, 95076

PROJECT NUMBER:
110-5227

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
	12/12/24	MRM		SUBSTATION/BESS UPDATE
	12/09/24	MRM		CUP SUBMISSION
	07/02/25	CZG		CIVIL UPDATE

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-6.2

CONSTRUCTION DETAILS

Appendix 2D
Lighting Plan

D-Series Size 0
LED Area Luminaire

DLC LISTED PREMIUM · DLC LISTED · NIGHTTIME FRIENDLY · ida · BAA · BABA

TYPE: PA1

COFFMAN ENGINEERS
1101 2nd Ave., Suite 400 | Seattle, WA 98101

Hit the Tab key or mouse over the page to see all interactive elements.

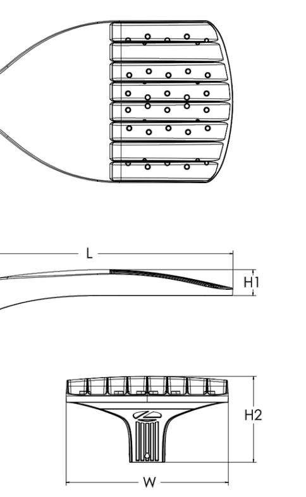
Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications, with typical energy savings of 70% and expected service life of over 100,000 hours.

Specifications

EPA:	0.44 ft² (0.04 m²)
Length:	26.18" (66.5 cm)
Width:	14.06" (35.7 cm)
Height H1:	2.26" (5.7 cm)
Height H2:	7.46" (18.9 cm)
Weight:	23 lbs (10.4 kg)



Design Select options indicated by this color background.

design select

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

Ordering Information

EXAMPLE: DSX0 LED P6 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX0 LED

Series: DSX0 LED

LEDs:
- Forward optics: P1, P2, P3, P4, P5, P6, P7
- Rotated optics: P10[1], P11[1], P12[1], P13[1]

Color temperature[2]:
- (this section 70CRI only): 30K 3000K; 40K 4000K; 50K 5000K
- 27K 2700K; 30K 3000K; 35K 3500K; 40K 4000K; 50K 5000K

Color Rendering Index[2]:
- 70CRI; 70CRI; 70CRI
- 80CRI; 80CRI; 80CRI; 80CRI; 80CRI

Distribution:
- AFR Automotive front row
- T1S Type I short
- T2M Type II medium
- T3M Type III medium
- T3LG Type III low glare[3]
- T4M Type IV medium
- T4LG Type IV low glare[3]
- TFTM Forward throw medium
- T5M Type V medium
- T5LG Type V low glare
- T5W Type V wide
- BLC3 Type III backlight control[3]
- BLC4 Type IV backlight control[3]
- LCCO Left corner cutoff[3]
- RCCO Right corner cutoff[3]

Voltage:
- MVOLT (120V-277V)[4]
- HVOLT (347V-480V)[5,6]
- XVOLT (277V-480V)[7,8]
- 120[16,24]
- 208[16,24]
- 240[16,24]
- 277[16,24]
- 347[16,24]
- 480[16,24]

Mounting:
Shipped included
- SPA Square pole mounting (#8 drilling, 3.5" min. SQ pole)
- RPA Round pole mounting (#8 drilling, 3" min. RND pole)
- SPA5 Square pole mounting (#5 drilling, 3" min. SQ pole)[9]
- RPA5 Round pole mounting (#5 drilling, 3" min. RND pole)[9]
- SPA8N Square narrow pole mounting (#8 drilling, 3" min. SQ pole)
- WBA Wall bracket[10]
- MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)

Control options:
Shipped installed
- NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc.[11,12,18,19]
- PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc[13,18,19]
- PER NEMA twist-lock receptacle only (controls ordered separate)[14]
- PER5 Five-pin receptacle only (controls ordered separate)[14,19]
- PER7 Seven-pin receptacle only (controls ordered separate)[14,19]
- FAO Field adjustable output[15,19]
- BL30 Bi-level switched dimming, 30%[16,19]
- BL50 Bi-level switched dimming, 50%[16,19]
- DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)[17]

Other options:
Shipped installed
- HS Houseside shield (black finish standard)[20]
- L90 Left rotated optics[1]
- R90 Right rotated optics[1]
- CCE Coastal Construction[21]
- HA 50°C ambient operation[22]
- BAA Buy America(n) Act and/or Build America Buy America Qualified
- SF Single fuse (120, 277, 347V)[24]
- DF Double fuse (208, 240, 480V)[24]

Shipped separately
- EGSR External Glare Shield (reversible, field install required, matches housing finish)
- BSDB Bird Spikes (field install required)

Finish (required):
- DDBXD Dark Bronze
- DBLXD Black
- DNAXD Natural Aluminum
- DWHXD White
- DDBTXD Textured dark bronze
- DBLBXD Textured black
- DNATXD Textured natural aluminum
- DWHGXD Textured white

Ordering Information

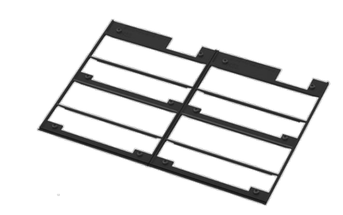
Accessories
Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V)[23]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V)[23]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V)[23]
DSHORT SBK	Shorting cap[23]
DSX0HS P#	House-side shield (enter package number P1-7, P10-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXRPA5 (FINISH)	Round pole adapter #5 drilling (specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSX0EGSR (FINISH)	External glare shield (specify finish)
DSX0BSDB (FINISH)	Bird spike deterrent bracket (specify finish)

NOTES
1 Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
2 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
3 T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
5 HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
6 HVOLT not available with package P1, P2 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
7 XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
8 XVOLT not available in packages P1, P2, or P10. XVOLT not available with fusing (SF or DF). XVOLT also not available in packages P3, P4, P5, P7, P11, P13 when combined with NLTAIR2 PIRHN or PIR.
9 SPA5 and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
10 WBA cannot be combined with Type 5 distributions plus photocell (PER).
11 NLTAIR2 and PIRHN must be ordered together. For more information on nLight Air 2.
12 NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50 and DMG. NLTAIR2 PIRHN not available with P1, P2 and P10 using HVOLT. NLTAIR2 PIRHN not available with P1 using MVOLT.
13 PIR not available with NLTAIR2, PER, PER5, PER7, FAO BL30, BL50 and DMG. PIR not available with P1, P2 and P10 using HVOLT.PIR not available with P1 using MVOLT.
14 PER/PER5/PER7 not available with NLTAIR2, PIR, BL30, BL50. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
15 FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, or DMG.
16 BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO and DMG. BL30 or BL50 must specify 120 or 277V.
17 DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50 and FAO.
18 Reference Motion Sensor Default Settings table on page 4 to see functionality.
19 Reference Controls Options table on page 4.
20 Option HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
21 CCE option not available with option BS and EGSR. Contact Technical Support for availability.
22 Option HA not available with performance packages P6, P7, P12 and P13.
23 Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
24 Single fuse (SF) requires 120V, 277V, or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).

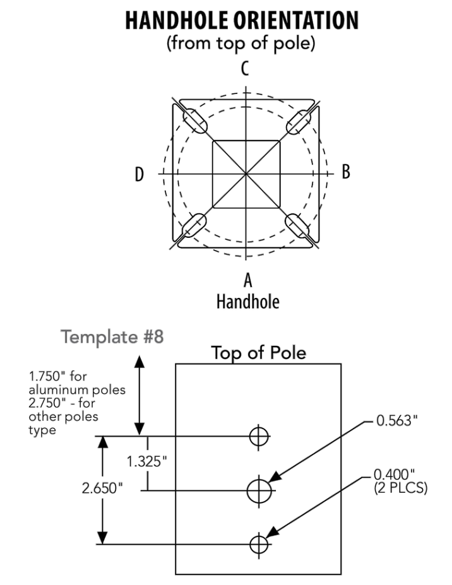
Shield Accessories

External Glare Shield (EGSR)



House Side Shield (HS)

Drilling



Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
		Minimum Acceptable Outside Pole Dimension					
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"		3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

DSX0 Area Luminaire - EPA

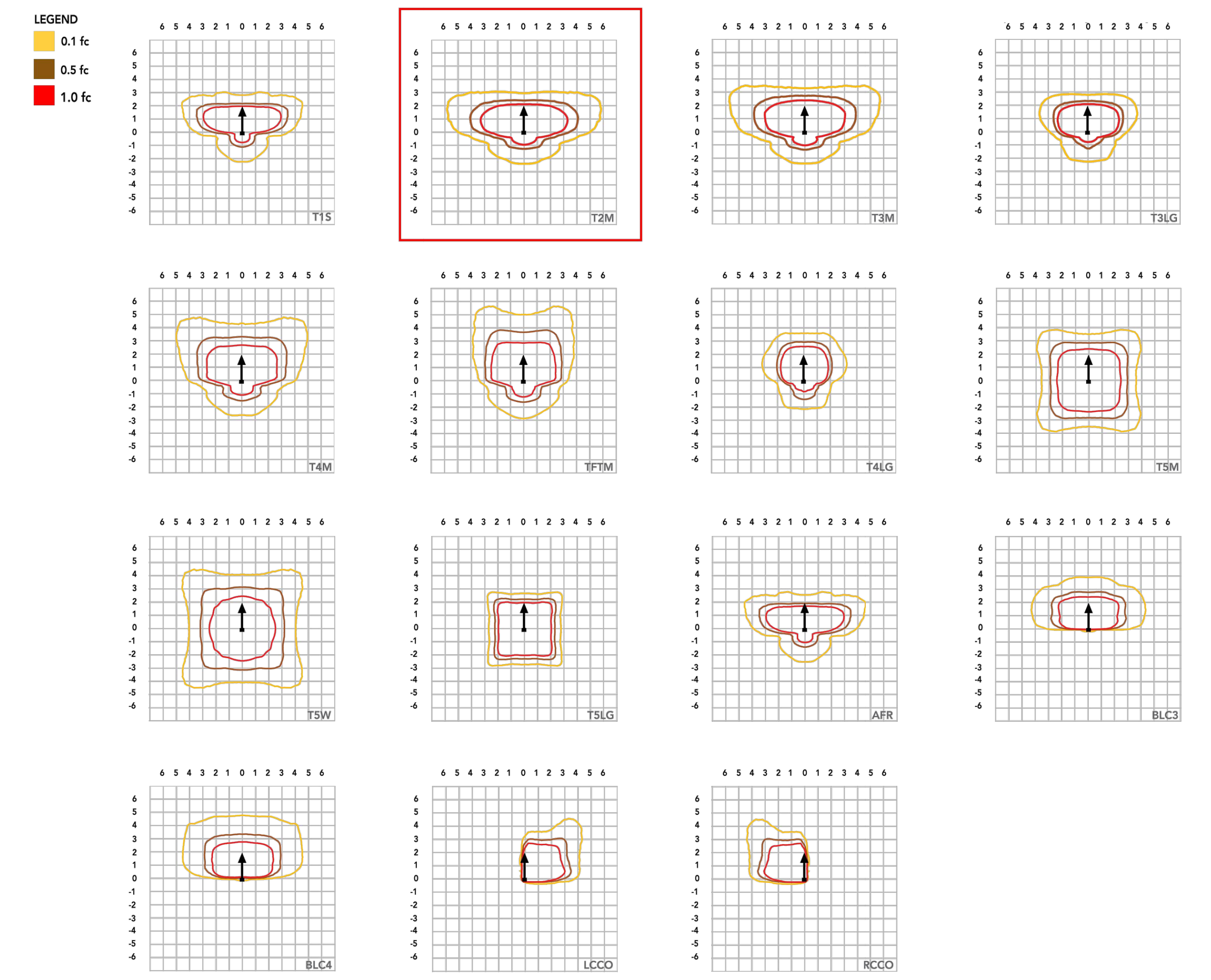
*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX0 with SPA	0.44	0.88	0.96	1.18	---	1.16
DSX0 with SPA5, SPA8N	0.51	1.02	1.06	1.26	---	1.29
DSX0 with RPA, RPA5	0.51	1.02	1.06	1.26	1.24	1.29
DSX0 with MA	0.64	1.28	1.24	1.67	1.70	1.93

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's homepage.

Isofootcandle plots for the DSX0 LED P7 40K 70CRI. Distances are in units of mounting height (20').



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	50°F	1.02
20°C	68°F	1.01
25°C	**77°C**	**1.00**
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.94
50,000	0.89
100,000	0.80

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use published values for each package based on input watts and lumens by optic type.

Electrical Load

	Performance Package	LED Count	Drive Current (mA)	Wattage	Current (A) 120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	20	530	34	0.28	0.16	0.14	0.12	0.10	0.07
	P2	20	700	45	0.38	0.22	0.19	0.16	0.13	0.09
	P3	20	1050	69	0.57	0.33	0.29	0.25	0.20	0.14
	P4	20	1400	94	0.78	0.45	0.39	0.34	0.27	0.19
	P5	40	700	89	0.75	0.43	0.38	0.33	0.26	0.19
	P6	40	1050	136	1.14	0.66	0.57	0.49	0.39	0.29
	P7	40	1300	170	1.42	0.82	0.71	0.62	0.49	0.36
Rotated Optics (Requires L90 or R90)	P10	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
	P11	30	700	67	0.57	0.33	0.28	0.25	0.20	0.14
	P12	30	1050	103	0.86	0.50	0.43	0.37	0.30	0.22
	P13	30	1300	129	1.07	0.62	0.54	0.46	0.37	0.27

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80CRI		90CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS (not available on DSX0)	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PER5 or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclypse.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI) Lumens	B	U	G	LPW	40K (4000K, 70 CRI) Lumens	B	U	G	LPW	50K (5000K, 70 CRI) Lumens	B	U	G	LPW
P1	33W	20	530	T1S	4,906	1	0	1	148	5,113	1	0	1	154	5,213	1	0	1	157
				T2M	4,545	1	0	2	137	4,736	1	0	2	143	4,829	1	0	2	145
				T3M	4,597	1	0	2	138	4,791	1	0	2	144	4,885	1	0	2	147
				T3LG	4,107	1	0	1	124	4,280	1	0	1	129	4,363	1	0	1	131
				T4M	4,666	1	0	2	141	4,863	1	0	2	146	4,957	1	0	2	149
				T4LG	4,244	1	0	1	128	4,423	1	0	1	133	4,509	1	0	1	136
				TFTM	4,698	1	0	2	141	4,896	1	0	2	147	4,992	1	0	2	150
				T5M	4,801	3	0	1	145	5,003	3	0	1	151	5,101	3	0	1	154
				T5W	4,878	3	0	1	147	5,084	3	0	2	153	5,183	3	0	2	156
				T5LG	4,814	2	0	1	145	5,018	2	0	1	151	5,115	2	0	1	154
				BLC3	3,344	0	0	1	101	3,485	0	0	1	105	3,553	0	0	1	107
				BLC4	3,454	0	0	2	104	3,599	0	0	2	108	3,670	0	0	2	111
				RCCO	3,374	0	0	1	102	3,517	0	0	1	106	3,585	0	0	1	108
				LCCO	3,374	0	0	1	102	3,517	0	0	1	106	3,585	0	0	1	108
				AFR	4,906	1	0	1	148	5,113	1	0	1	154	5,213	1	0	1	157
P2	45W	20	700	T1S	6,328	1	0	1	140	6,595	1	0	1	146	6,724	1	0	1	149
				T2M	5,862	1	0	2	130	6,109	1	0	2	135	6,228	1	0	2	138
				T3M	5,930	1	0	3	131	6,180	1	0	3	137	6,301	1	0	3	140
				T3LG	5,297	1	0	1	117	5,521	1	0	1	122	5,628	1	0	1	125
				T4M	6,018	1	0	3	133	6,272	1	0	3	139	6,395	1	0	3	142
				T4LG	5,474	1	0	1	121	5,705	1	0	1	126	5,816	1	0	1	129
				TFTM	6,060	1	0	3	134	6,316	1	0	3	140	6,439	1	0	3	143
				T5M	6,192	3	0	1	137	6,453	3	0	2	143	6,579	3	0	2	146
				T5W	6,293	3	0	2	139	6,558	3	0	2	145	6,686	3	0	2	148
				T5LG	6,210	2	0	1	138	6,472	3	0	1	143	6,598	3	0	1	146
				BLC3	4,313	0	0	2	96	4,495	0	0	2	100	4,583	0	0	2	102
				BLC4	4,455	0	0	2	99	4,643	0	0	2	103	4,733	0	0	2	105
				RCCO	4,352	0	0	2	96	4,536	0	0	2	100	4,624	0	0	2	102
				LCCO	4,352	0	0	2	96	4,536	0	0	2	100	4,624	0	0	2	102
				AFR	6,328	1	0	1	140	6,595	1	0	1	146	6,724	1	0	1	149
P3	69W	20	1050	T1S	9,006	1	0	2	131	9,386	1	0	2	136	9,569	1	0	2	139
				T2M	8,343	2	0	3	121	8,694	2	0	3	126	8,864	2	0	3	129
				T3M	8,439	2	0	3	122	8,795	2	0	3	128	8,967	2	0	3	130
				T3LG	7,539	1	0	2	109	7,857	1	0	2	114	8,010	1	0	2	116
				T4M	8,565	2	0	3	124	8,926	2	0	3	129	9,100	2	0	3	132
				T4LG	7,790	1	0	2	113	8,119	1	0	2	118	8,277	1	0	2	120
				TFTM	8,624	1	0	3	125	8,988	1	0	3	130	9,163	2	0	3	133
				T5M	8,812	3	0	2	128	9,184	4	0	2	133	9,363	4	0	2	136
				T5W	8,955	4	0	2	130	9,333	4	0	2	135	9,515	4	0	2	138
				T5LG	8,838	3	0	1	128	9,211	3	0	1	134	9,390	3	0	1	136
				BLC3	6,139	0	0	2	89	6,398	0	0	2	93	6,522	0	0	2	95
				BLC4	6,340	0	0	3	92	6,607	0	0	3	96	6,736	0	0	3	98
				RCCO	6,194	1	0	2	90	6,455	1	0	2	94	6,581	1	0	2	95
				LCCO	6,194	1	0	2	90	6,455	1	0	2	94	6,581	1	0	2	95
				AFR	9,006	1	0	2	131	9,386	1	0	2	136	9,569	1	0	2	139
P4	93W	20	1400	T1S	11,396	1	0	2	122	11,877	1	0	2	128	12,109	2	0	2	130
				T2M	10,557	2	0	3	113	11,003	2	0	3	118	11,217	2	0	3	121
				T3M	10,680	2	0	3	115	11,130	2	0	3	120	11,347	2	0	3	122
				T3LG	9,540	1	0	2	103	9,942	1	0	2	107	10,136	1	0	2	109
				T4M	10,839	2	0	3	117	11,296	2	0	3	121	11,516	2	0	4	124
				T4LG	9,858	1	0	2	106	10,274	1	0	2	110	10,474	1	0	2	113
				TFTM	10,914	2	0	3	117	11,374	2	0	3	122	11,596	2	0	3	125
				T5M	11,152	4	0	2	120	11,622	4	0	2	125	11,849	4	0	2	127
				T5W	11,332	4	0	3	122	11,811	4	0	3	127	12,041	4	0	3	129
				T5LG	11,184	3	0	1	120	11,656	3	0	2	125	11,883	3	0	2	128
				BLC3	7,768	0	0	2	83	8,096	0	0	2	87	8,254	0	0	2	89
				BLC4	8,023	0	0	3	86	8,362	0	0	3	90	8,524	0	0	3	92
				RCCO	7,838	1	0	2	84	8,169	1	0	2	88	8,328	1	0	2	90
				LCCO	7,838	1	0	2	84	8,169	1	0	2	88	8,328	1	0	2	90
				AFR	11,396	1	0	2	122	11,877	1	0	2	128	12,109	2	0	2	130

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI) Lumens	B	U	G	LPW	40K (4000K, 70 CRI) Lumens	B	U	G	LPW	50K (5000K, 70 CRI) Lumens	B	U	G	LPW
P5	90W	40	700	T1S	12,380	2	0	2	137	12,902	2	0	2	143	13,154	2	0	2	146
				T2M	11,468	2	0	3	127	11,952	2	0	3	133	12,185	2	0	3	135
				T3M	11,601	2	0	3	129	12,091	2	0	3	134	12,326	2	0	4	137
				T3LG	10,363	2	0	2	115	10,800	2	0	2	120	11,011	2	0	2	122
				T4M	11,774	2	0	4	131	12,271	2	0	4	136	12,510	2	0	4	139
				T4LG	10,709	1	0	2	119	11,160	2	0	2	124	11,378	2	0	2	126
				TFTM	11,856	2	0	3	132	12,356	2	0	4	137	12,596	2	0	4	140
				T5M	12,114	4	0	2	134	12,625	4	0	2	140	12,871	4	0	2	143
				T5W	12,310	4	0	3	137	12,830	4	0	3	142	13,080	4	0	3	145
				T5LG	12,149	3	0	2	135	12,662	3	0	2	141	12,908	3	0	2	143
				BLC3	8,438	0	0	2	94	8,794	0	0	2	98	8,966	0	0	2	99
				BLC4	8,715	0	0	3	97	9,083	0	0	3	101	9,260	0	0	3	103
				RCCO	8,515	1	0	2	94	8,874	1	0	2	98	9,047	1	0	2	100
				LCCO	8,515	1	0	2	94	8,874	1	0	2	98	9,047	1	0	2	100
				AFR	12,380	2	0	2	137	12,902	2	0	2	143	13,154	2	0	2	146
P6	137W	40	1050	T1S	17,545	2	0	3	128	18,285	2	0	3	133	18,642	2	0	3	136
				T2M	16,253	3	0	4	119	16,939	3	0	4	124	17,269	3	0	4	126
				T3M	16,442	2	0	4	120	17,135	3	0	4	125	17,469	3	0	4	128
				T3LG	14,687	2	0	2	107	15,306	2	0	2	112	15,605	2	0	2	114
				T4M	16,687	2	0	4	122	17,391	3	0	5	127	17,730	3	0	5	129
				T4LG	15,177	2	0	2	111	15,817	2	0	2	115	16,125	2	0	2	118
				TFTM	16,802	2	0	4	123	17,511	2	0	4	128	17,852	2	0	5	130
				T5M	17,168	4	0	2	125	17,893	5	0	3	131	18,241	5	0	3	133
				T5W	17,447	5	0	3	127	18,183	5	0	3	133	18,537	5	0	3	135
				T5LG	17,218	4	0	2	126	17,944	4	0	2	131	18,294	4	0	2	134
				BLC3	11,959	0	0	3	87	12,464	0	0	3	91	12,707	0	0	3	93
				BLC4	12,352	0	0	4	90	12,873	0	0	4	94	13,124	0	0	4	96
				RCCO	12,067	1	0	3	88	12,576	1	0	3	92	12,821	1	0	3	94
				LCCO	12,067	1	0	3	88	12,576	1	0	3	92	12,821	1	0	3	94
				AFR	17,545	2	0	3	128	18,285	2	0	3	133	18,642	2	0	3	136
P7	171W	40	1300	T1S	20,806	2	0	3	122	21,683	2	0	3	127	22,106	2	0	3	129
				T2M	19,273	3	0	4	113	20,086	3	0	4	118	20,478	3	0	4	120
				T3M	19,497	3	0	5	114	20,319	3	0	5	119	20,715	3	0	5	121
				T3LG	17,416	2	0	2	102	18,151	2	0	2	106	18,504	2	0	2	108
				T4M	19,787	3	0	5	116	20,622	3	0	5	121	21,024	3	0	5	123
				T4LG	17,997	2	0	2	105	18,756	2	0	2	110	19,121	2	0	2	112
				TFTM	19,924	3	0	5	117	20,765	3	0	5	122	21,170	3	0	5	124
				T5M	20,359	5	0	3	119	21,217	5	0	3	124	21,631	5	0	3	127
				T5W	20,689	5	0	3	121	21,561	5	0	3	126	21,982	5	0	3	129
				T5LG	20,418	4	0	2	120	21,279	4	0	2	125	21,694	4	0	2	127
				BLC3	14,182	0	0	3	83	14,780	0	0	3	87	15,068	0	0	3	88
				BLC4	14,647	0	0	4	86	15,265	0	0	4	89	15,562	0	0	4	91
				RCCO	14,309	1	0	3	84	14,913	1	0	3	87	15,204	1	0	3	89
				LCCO	14,309	1	0	3	84	14,913	1	0	3	87	15,204	1	0	3	89
				AFR	20,806	2	0	3	122	21,683	2	0	3	127	22,106	2	0	3	129

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PRELIMINARY
NOT FOR CONSTRUCTION

SEAHAWK ENERGY STORAGE

MW / MWh
90 Minto Road
Watsonville, CA 95076

REV	DATE	DESCRIPTION

PROJ. NO.	253464
DRAWN	AV
CHECKED	CJB
DATE	10/30/2025

SHEET TITLE:
LIGHT FIXTURE SPECIFICATIONS

SHEET NO:
E0.1

Performance Data

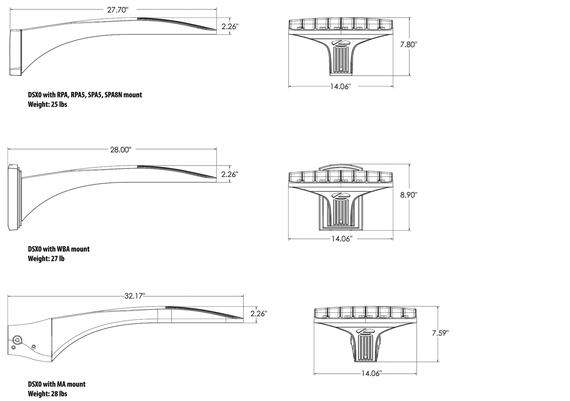
Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Rotated Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P10	51W	30	530	T1S	7,399	3	0	3	145	7,711	3	0	3	151	7,862	3	0	3	154
				T2M	6,854	3	0	3	135	7,144	3	0	3	140	7,283	3	0	3	143
				T3M	6,933	3	0	3	136	7,225	3	0	3	142	7,366	3	0	3	145
				T3LG	6,194	2	0	2	122	6,455	2	0	2	127	6,581	2	0	2	129
				T4M	7,036	3	0	3	138	7,333	3	0	3	144	7,476	3	0	3	147
				T4LG	6,399	2	0	2	126	6,669	2	0	2	131	6,799	2	0	2	134
				TFTM	7,086	3	0	3	139	7,385	3	0	3	145	7,529	3	0	3	148
				T5M	7,239	3	0	2	142	7,545	3	0	2	148	7,692	3	0	2	151
				T5W	7,357	3	0	2	145	7,667	3	0	2	151	7,816	4	0	2	154
				T5LG	7,260	3	0	1	143	7,567	3	0	1	149	7,714	3	0	1	152
				BLC3	5,043	3	0	3	99	5,256	3	0	3	103	5,358	3	0	3	105
				BLC4	5,208	3	0	3	102	5,428	3	0	3	107	5,534	3	0	3	109
				RCCO	5,089	0	0	2	100	5,303	0	0	2	104	5,407	0	0	2	106
				LCCO	5,089	0	0	2	100	5,303	0	0	2	104	5,407	0	0	2	106
				AFR	7,399	3	0	3	145	7,711	3	0	3	151	7,862	3	0	3	154
P11	68W	30	700	T1S	9,358	3	0	3	138	9,753	3	0	3	143	9,943	3	0	3	146
				T2M	8,669	3	0	3	127	9,034	3	0	3	133	9,211	3	0	3	135
				T3M	8,768	3	0	3	129	9,138	3	0	3	134	9,316	3	0	3	137
				T3LG	7,833	3	0	3	115	8,164	3	0	3	120	8,323	3	0	3	122
				T4M	8,899	3	0	3	131	9,274	3	0	3	136	9,455	3	0	3	139
				T4LG	8,093	3	0	3	119	8,435	3	0	3	124	8,599	3	0	3	126
				TFTM	8,962	3	0	3	132	9,340	3	0	3	137	9,522	3	0	3	140
				T5M	9,156	4	0	2	135	9,542	4	0	2	140	9,728	4	0	2	143
				T5W	9,304	4	0	2	137	9,696	4	0	2	143	9,885	4	0	2	145
				T5LG	9,182	3	0	1	135	9,569	3	0	1	141	9,756	3	0	1	143
				BLC3	6,378	3	0	3	94	6,647	3	0	3	98	6,777	3	0	3	100
				BLC4	6,587	3	0	3	97	6,865	3	0	3	101	6,999	3	0	3	103
				RCCO	6,436	0	0	2	95	6,707	0	0	2	99	6,838	0	0	2	101
				LCCO	6,436	0	0	2	95	6,707	0	0	2	99	6,838	0	0	2	101
				AFR	9,358	3	0	3	138	9,753	3	0	3	143	9,943	3	0	3	146
P12	103W	30	1050	T1S	13,247	3	0	3	128	13,806	3	0	3	134	14,075	3	0	3	136
				T2M	12,271	4	0	4	119	12,789	4	0	4	124	13,038	4	0	4	126
				T3M	12,412	4	0	4	120	12,935	4	0	4	125	13,187	4	0	4	128
				T3LG	11,089	3	0	3	107	11,556	3	0	3	112	11,782	3	0	3	114
				T4M	12,597	4	0	4	122	13,128	4	0	4	127	13,384	4	0	4	129
				T4LG	11,457	3	0	3	111	11,940	3	0	3	116	12,173	3	0	3	118
				TFTM	12,686	4	0	4	123	13,221	4	0	4	128	13,479	4	0	4	130
				T5M	12,960	4	0	2	125	13,507	4	0	2	131	13,770	4	0	2	133
				T5W	13,170	4	0	3	127	13,726	4	0	3	133	13,994	4	0	3	135
				T5LG	12,998	3	0	2	126	13,546	3	0	2	131	13,810	3	0	2	134
				BLC3	9,029	3	0	3	87	9,409	3	0	3	91	9,593	3	0	3	93
				BLC4	9,324	4	0	4	90	9,718	4	0	4	94	9,907	4	0	4	96
				RCCO	9,110	1	0	2	88	9,495	1	0	2	92	9,680	1	0	2	94
				LCCO	9,110	1	0	2	88	9,494	1	0	2	92	9,680	1	0	2	94
				AFR	13,247	3	0	3	128	13,806	3	0	3	134	14,075	3	0	3	136
P13	129W	30	1300	T1S	15,704	3	0	3	122	16,366	3	0	3	127	16,685	4	0	4	130
				T2M	14,547	4	0	4	113	15,161	4	0	4	118	15,457	4	0	4	120
				T3M	14,714	4	0	4	114	15,335	4	0	4	119	15,634	4	0	4	121
				T3LG	13,145	3	0	3	102	13,700	3	0	3	106	13,967	3	0	3	108
				T4M	14,933	4	0	4	116	15,563	4	0	4	121	15,867	4	0	4	123
				T4LG	13,582	3	0	3	105	14,155	3	0	3	110	14,431	3	0	3	112
				TFTM	15,039	4	0	4	117	15,673	4	0	4	122	15,979	4	0	4	124
				T5M	15,364	4	0	2	119	16,013	4	0	2	124	16,325	4	0	2	127
				T5W	15,613	5	0	3	121	16,272	5	0	3	126	16,589	5	0	3	129
				T5LG	15,409	3	0	2	120	16,059	3	0	2	125	16,372	4	0	2	127
				BLC3	10,703	4	0	4	83	11,155	4	0	4	87	11,372	4	0	4	88
				BLC4	11,054	4	0	4	86	11,520	4	0	4	89	11,745	4	0	4	91
				RCCO	10,800	1	0	2	84	11,256	1	0	2	87	11,475	1	0	3	89
				LCCO	10,800	1	0	2	84	11,255	1	0	2	87	11,475	1	0	3	89
				AFR	15,704	3	0	3	122	16,366	3	0	3	127	16,685	4	0	4	130

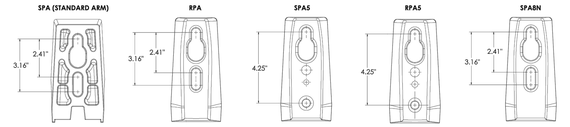
Dimensions



DSXO with RPA, RPA5, SPA5, SPABN mount
Weight: 25 lbs

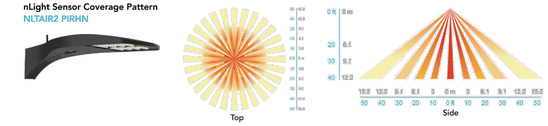
DSXO with WBA mount
Weight: 27 lb

DSXO with MA mount
Weight: 28 lbs



nLight Control - Sensor Coverage and Settings

nLight Sensor Coverage Pattern
NLTAIR2 PIRHN



FEATURES & SPECIFICATIONS

INTENDED USE
The sleek design of the D-Series Size 0 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and pedestrian areas.

CONSTRUCTION
Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 3G. Low EPA (0.44 ft²) for optimized pole wind loading.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

COASTAL CONSTRUCTION (CCE)
Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS
Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K or 5000 K (70 CRI) configurations. 80CRI configurations are also available. The D-Series Size 0 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine(s) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L80/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS
The DSXO LED area luminaire has a number of control options. DSX Size 0, comes standard with 0-10V dimming driver. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. PIR integrated motion sensor with on-board photocell feature field-adjustable programing and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

nLIGHT AIR CONTROLS
The DSX0 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaries can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclypse. Additional information about nLight Air can be found here.

INSTALLATION
Integral mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

LISTINGS
UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

GOVERNMENT PROCUREMENT
BAA – Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

COFFMAN ENGINEERS
1101 2nd Avenue
Suite 400
Seattle, WA 98101
ph 206.623.0717
www.coffman.com

PRELIMINARY
NOT FOR CONSTRUCTION

SEAHAWK ENERGY STORAGE

MW / MWh
90 Minto Road
Watsonville, CA 95076

REV	DATE	DESCRIPTION

PROJ. NO. 253464
DRAWN AV
CHECKED CJB
DATE 10/30/2025

SHEET TITLE:
LIGHT FIXTURE SPECIFICATIONS

SHEET NO:
E0.2

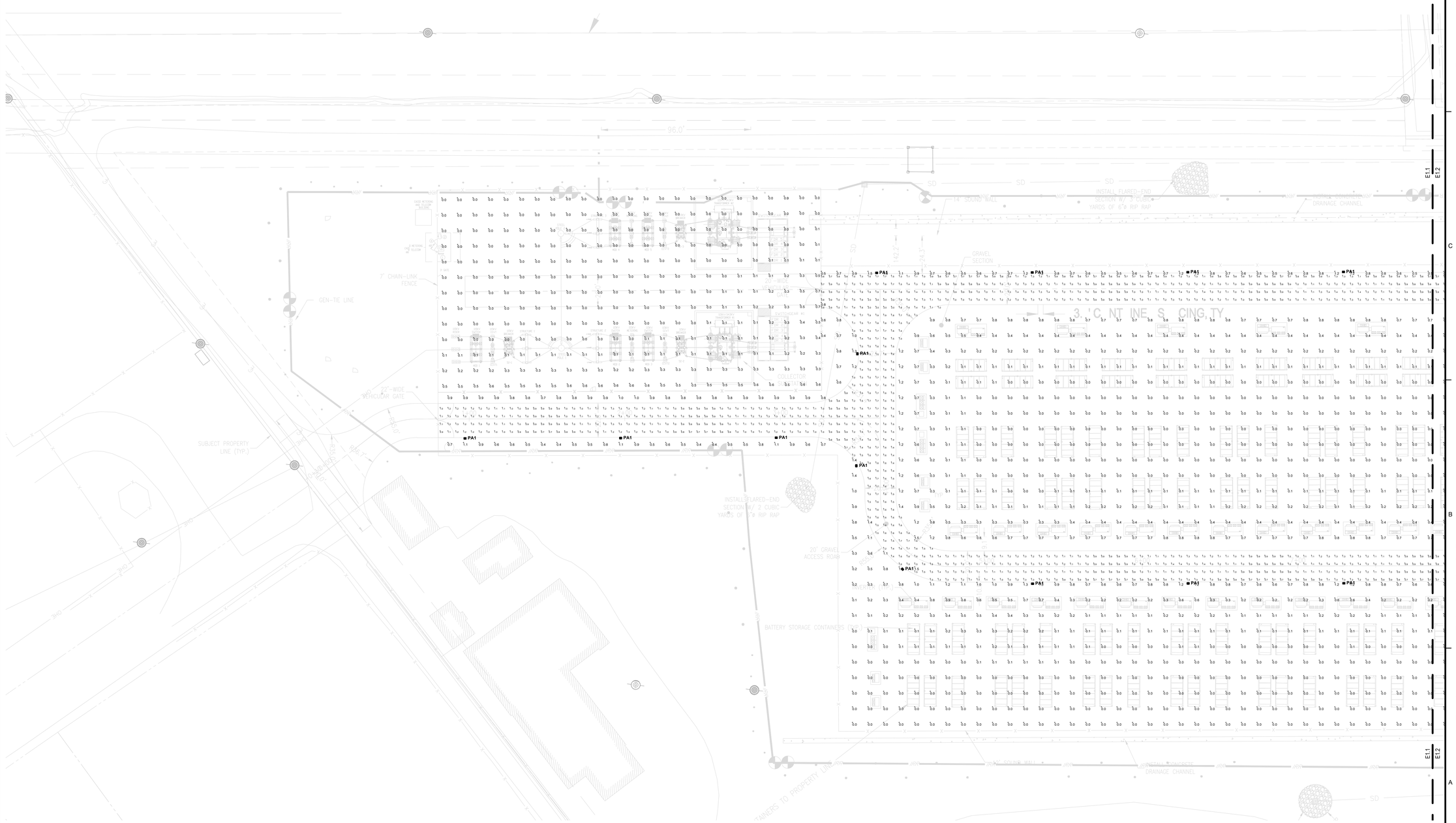
Luminaire Schedule									
Tag	**Symbol**	**[MANUFAC]**	**Description**	**LLF**	**Luminaire Lumens**	**Luminaire Watts**	**BUG Rating**	**Mounting Height**	**Qty**
PA1		Lithonia Lighting	DSX0 LED P2 30K 70CRI T2M	0.870	5862	45.14	B1-U0-G2	20	31

NOTE: TYPE PA1 LUMINAIRE POLE HEIGHT IS 20 FEET.

Calculation Summary								
Label	**CalcType**	**Units**	**Avg**	**Max**	**Min**	**Max/Min**	**Required FC**	**Complies**
Road_Top	Illuminance	Fc	1.14	2.0	0.5	4.00	.5	Yes

BASIS OF DESIGN NOTES:

1. THIS LIGHTING PLAN IS BASED UPON THE UNDERSTANDING THAT THE EXTERIOR LIGHTING DESIGN FOR THE SITE IS REQUIRED TO COMPLY WITH CA TITLE 24.
2. LIGHTING ZONE IS DETERMINED TO BE LZ1 SINCE IT IS IN AN AGRICULTURAL ZONE DISTRICT PER CA TITLE 24 TABLE 10-114-A.
3. PER CA TITLE 24, SECTION 13300.2, ALL OUTDOOR LUMINAIRES OF 6,200 INITIAL LUMINAIRE LUMENS OR GREATER SHALL COMPLY WITH BACKLIGHT - UPLIGHT -GLARE (B-U-G) RATINGS. ALL LUMINAIRES INCLUDED IN THIS PLAN HAVE INITIAL LUMEN OUTPUT OF LESS THAN 6,200 LUMENS.
4. PER THE NATIONAL ELECTRICAL SAFETY CODE (NESC), THE ROADWAY WHICH IS NOT BORDERED BY BUILDINGS IS REQUIRED TO HAVE A MINIMUM FOOT-CANDLE LEVEL OF .5 FOOT-CANDLES.



SITE LIGHTING PLAN
SCALE: 1" = 30'-0"

1"=30'-0" 0 10 20 30 60 90

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REV	DATE	DESCRIPTION

PROJ. NO.	253464
DRAWN	AV
CHECKED	CJB
DATE	10/30/2025

SHEET TITLE:

SITE LIGHTING PLAN

SHEET NO:

E1.1

Luminaire Schedule									
Tag	**Symbol**	**[MANUFAC]**	**Description**	**LLF**	**Luminaire Lumens**	**Luminaire Watts**	**BUG Rating**	**Mounting Height**	**Qty**
PA1		Lithonia Lighting	DSX0 LED P2 30K 70CRI T2M	0.870	5862	45.14	B1-U0-G2	20	31

NOTE: TYPE PA1 LUMINAIRE POLE HEIGHT IS 20 FEET.

Calculation Summary								
Label	**CalcType**	**Units**	**Avg**	**Max**	**Min**	**Max/Min**	**Required FC**	**Complies**
Road_Top	Illuminance	Fc	1.14	2.0	0.5	4.00	.5	Yes

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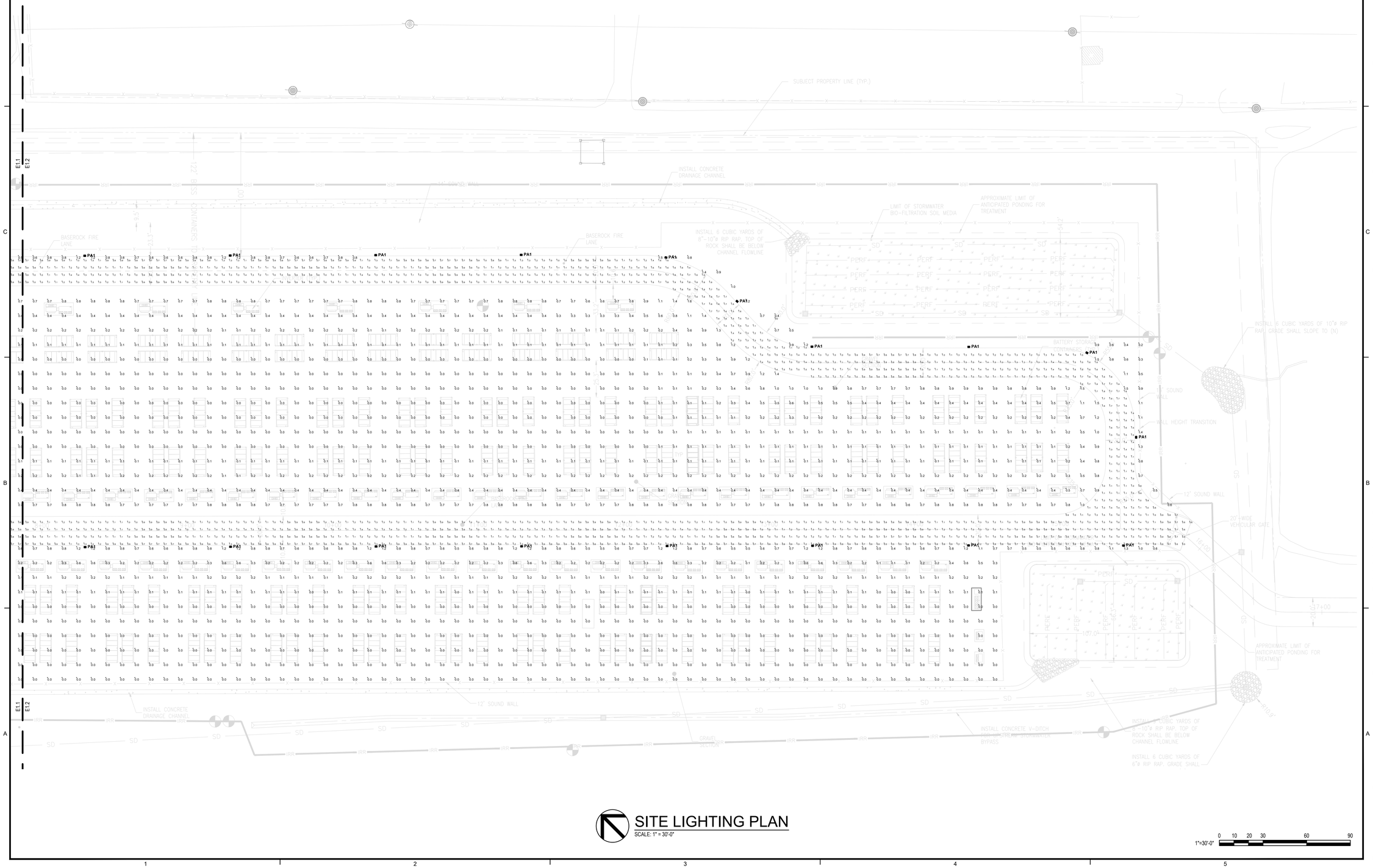
4. PER THE NATIONAL ELECTRICAL SAFETY CODE (NESC), THE ROADWAY WHICH IS NOT BORDERED BY BUILDINGS IS REQUIRED TO HAVE A MINIMUM FOOT-CANDLE LEVEL OF .5 FOOT-CANDLES.



SITE LIGHTING PLAN

SCALE: 1" = 30'-0"

1"=30'-0" 0 10 20 30 60 90

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REV	DATE	DESCRIPTION

PROJ. NO.	253464
DRAWN	AV
CHECKED	CJB
DATE	10/30/2025

SHEET TITLE:

SITE LIGHTING PLAN

SHEET NO:

E1.2

P:\ANC\25\08\253464 AB-205 BESS LIGHTING PLAN SUPPORT\0.0 DWG\SE\253464_E1.1-E1.2 LIGHTING PLAN SUPPORT\0.0 DWG\E1.2 FROGGE, RICHARD - LAST SAVED: October 30, 2025 - PLOT DATE: 10/30/25

Appendix 2E

CAISO Studies (Confidential)

Appendix 2F

Electric & Magnetic Fields Study

Electric and Magnetic Field (EMF) Study Report

Seahawk Solar Project

115 kV Transmission Line

Prepared for:

DUDEK

Prepared by:

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Darko Borovik, P.E., dborkovic@ceg-engineers.com

Revision 0

January 10, 2025

Consulting Engineers Group
21875 Grenada Ave
Lakeville, MN 55044

CEG
CONSULTING ENGINEERS GROUP
Engineering Powerful Solutions

Document History

Revision	Date	Author	Reviewer	Description
0	01/10/2025	MA		Initial EMF Study

Contents

1. Introduction and Executive Summary

Consulting Engineers Group (CEG) is pleased to provide this EMF study for SeaHawk Solar project's 115kV Transmission Line. An evaluation was performed of the power-frequency (60-Hertz) electric and magnetic fields associated with the proposed SeaHawk Solar 115 kV overhead circuit. The purpose of this study was to perform computer modeling of the lines associated with the project and prepare a technical report of the calculation results, which are presented herein. The study took a cross-section at worst EMF case scenario locations which contain unique EMF characteristics, and then provided results for those sections which can be used as representative examples for the lines with similar framing or layout.

As demonstrated in the calculations to follow, Consulting Engineers Group (CEG) predicts the maximum magnetic field from the overhead circuit to be 83.31 mG. CEG predicts the maximum electric field from the overhead circuit to be 0.83 kV/m. Additionally, the transmission line right of way (ROW) is 100 ft. The magnetic field at the +/- 50 ft ROW edge is 28.95 mG and the electric field is 0.17 kV/m.

2. Site Description

The Seahawk Solar Project is in Santa Cruz County, California. The project's total output is 200 MW and interconnects to the transmission system through a 2,000 ft long, 115kV, 954 ACSR Cardinal transmission line.

3. General Description of Electric and Magnetic Fields

3.1. Background Information

The generation, delivery, and use of electricity produces both electric and magnetic fields. Electric and magnetic fields are created by electrical voltage and electrical current respectively. Electrical facilities, such as power lines associated with the Seahawk Solar Project, produce electric and magnetic fields during operation. The exposure to electric and magnetic fields is complex and comes from multiple sources in the home and workplace in addition to power lines.

3.2. Units of Measure

Electric field values are reported using units of Volts per meter (V/m). Often the electric field is reported using thousands of Volts per meter (or kV/m).

Magnetic field values are reported using units of gauss (G). However, it is usually more convenient to report magnetic field using milliGauss (mG) which is equal to one-thousandth of a gauss (i.e., 1 mG = 0.001 G). Some technical reports also use the unit Tesla (T) or microTesla (μT; 1 μT = 0.000001 T) for magnetic fields. The conversion between these two units is 1 mG = 0.1 μT and 1 μT = 10mG.

3.3. Electric Fields

The potential or voltage (electrical pressure) on an object causes an electric field. Any object with an electric charge on it has a voltage (potential) at its surface caused by the accumulation of more electrons as compared with another object or surface. The voltage effect is not limited to the surface of the object but exists in the surrounding space in diminishing intensity. Electric fields can exert a force on the other

electric charges at a distance. The change in voltage over distance is known as the electric field. The electric field becomes stronger near a charged object and decreases with distance away from the object. Electric fields are found in everyday life with typical values of electric field measured 1-foot away from common appliances shown in Table 1:

Appliance	Electric Field (kV/m)
Electric Blanket	0.25*
Broiler	0.13
Refrigerator	0.06
Iron	0.06
Hand Mixer	0.05
Coffee Pot	0.03

* Note: 1 to 10 kV/m next to blanket wires
Source: Carstensen 1985; Enertech Consultants 1985

Table 1. Typical Electric Field Values for Appliances, at 12 inches

In the United States, electric power transmission lines create 60 Hz electric fields. These fields result from the voltage of the transmission line phase conductors with respect to the ground.

Electric field strengths from a transmission line decrease with distance away from the outermost conductor, typically at a rate of approximately one divided by the distance squared (1/d2). For example, in an undisturbed field, if the electric strength is 10 kV/m at a distance of 1 meter away, it will be approximately 2.5 kV/m at 2 meters away, and 0.625 kV/m at 4 meters away. Electric field strengths for a transmission line remain relatively constant over time because the voltage of the line is kept within bounds of about ± 5 percent of its rated voltage.

Transmission line electric fields are affected by the presence of grounded and conductive objects as demonstrated by Figure 1. Trees and buildings, for example can significantly reduce ground level electric fields by shielding the area nearby.

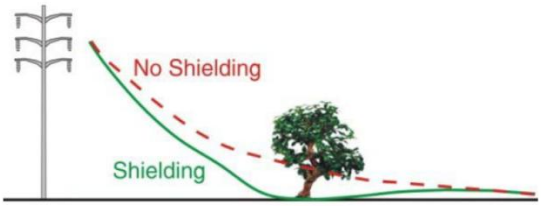


Figure 1. Electric Field Measurements Demonstrate Shielding Due to the Presence of a Tree

3.4. Magnetic Fields

An electric current flowing in a conductor (electric equipment, household appliance, power circuits, etc.) creates a magnetic field. The most commonly used magnetic field intensity unit of measure is the milligauss (mG).

Since the magnetic field is caused by the flow of an electric current, a device must be operated to create a magnetic field. Magnetic field strengths of many common household appliances were measured and typical magnetic field values for some appliances have been measured as low as 0.3 mG to as high as 20,000 mG. This is shown in Table 2:

Appliance	Magnetic Field at 12 inches Away (mG)	Maximum Magnetic Field (mG)
Electric Range	3 to 30	100 to 1,200
Electric Oven	2 to 25	10 to 50
Garbage Disposal	10 to 20	850 to 1,250
Refrigerator	0.3 to 3	4 to 15
Clothes Washer	2 to 30	10 to 400
Clothes Dryer	1 to 3	3 to 80
Coffee Maker	0.8 to 1	15 to 250
Toaster	0.6 to 8	70 to 150
Crock Pot	0.8 to 1	15 to 80
Iron	1 to 3	90 to 300
Can Opener	35 to 250	10,000 to 20,000
Blender, Popper, Processor	6 to 20	250 to 1,050
Vacuum Cleaner	20 to 200	2,000 to 8,000
Portable Heater	1 to 40	100 to 1,100
Fans/Blowers	0.4 to 40	20 to 300
Hair Dryer	1 to 70	60 to 20,000
Electric Shaver	1 to 100	150 to 15,000
Fluorescent Light Fixture	2 to 40	140 to 2,000
Fluorescent Desk Lamp	6 to 20	400 to 3,500
Circular Saws	10 to 250	2,000 to 10,000
Electric Drill	25 to 35	4,000 to 8,000

Source: IITRI 1984; Silva 1989

Table 2. Typical Magnetic Field Values from Household Appliances

Electric power transmission lines also create magnetic fields. These fields are typically generated by the current (amperes) flowing through the phase conductors. The magnetic field is a vector quantity having magnitude and direction.

Similar to the electric field, magnetic field strengths decrease with the inverse square of the distance away from the power line. Unlike electric fields that vary little over time, magnetic fields are not constant because the current on any power line changes in response to increasing and decreasing electrical load. Magnetic fields are not easily shielded.

3.5. EMF Standard and Design Limits

There are no federal standards limiting occupational or residential exposure to 60-Hz EMF in the United States. While some states do implement specific limits for new design, the state of California does not. This project will adhere to the California Public Service Commission Standards and Recommendations that have been set forth, stating that where practical, EMF reduction techniques are followed.

4. Project Overview and Calculations

The proposed SeaHawk Solar Project 115kV transmission circuit is broken up into a unique right-of-way section (100 ft) as defined below:

Calculation	Title
OH1	One conductor 954 kCMIL 54/7 ACSR 115kV 3-PH Overhead Transmission Circuit

4.1. Specific Parameters and Circuit Information for Calculations

Frequency	60 Hz
Additional Load	No expected change in max amperage for the following conditions: -Summer Normal -Summer Emergency -Winter Normal -Winter Emergency -Max average annual load initially -Max average annual load @ 10 yrs. out
Wire Location	30 ft above ground for Overhead, at GO95 clearance requirements
Measurement Location	3.28 ft. (1m) above wire
Maximum wire distance	2000 ft
Cross Section Offset	+/- 250 ft
Software Used	PLS-CADD v17.22 x64

Table 3. EMF Study Modeling Parameters

4.2. General Parameters

ROW CALC #	Ckt. Numbers in ROW Segment	Voltage	Status	Conductors Modeled	100% Peak Current (Amps)
OH1	1-OverHead	115kV	Proposed	954 kCMIL 54/7 ACSR	1000A

The modeling and calculations of electric and magnetic fields were performed using the 3D EMF calculator within PLS-CADD, based on Electric Power Research Institute (EPRI) and Institute of Electrical and Electronics Engineers (IEEE) methods.

The calculations were performed on a 60 Hz frequency. OH1 115kV conductors were loaded with max operating current based on 200MW project size. The calculations were made, based on IEEE standards at 3.28 ft above ground, in 5ft increments +/- 250 ft from the center of the right-of-way.

The magnetic field produced by a 3-phase circuit is highly dependent on the orientation and geometry of the 3 cables that make up the circuit. The horizontal orientation of the overhead conductors represent a worst case scenario that produces the highest EMF values of any standard conductor orientation. The

circuit design used for the overhead section calculations, shown in Figure 2, is a worst EMF case scenario design that uses a horizontal orientation and minimum G.O. 95 clearance requirements to show that an overhead circuit with this load and voltage does not exceed any limits even with a worst EMF case scenario design.

5. Results

The maximum predicted magnetic field from the overhead circuit to be 83.31 mG. CEG predicts the maximum electric field from the overhead circuit to be 0.83 kV/m. Additionally, the transmission line right of way (ROW) is 100 ft. The magnetic field at the +/- 50 ft ROW edge is 28.95 mG and the electric field is 0.17 kV/m.

OH1 – 115KV CROSS SECTIONAL LAYOUT

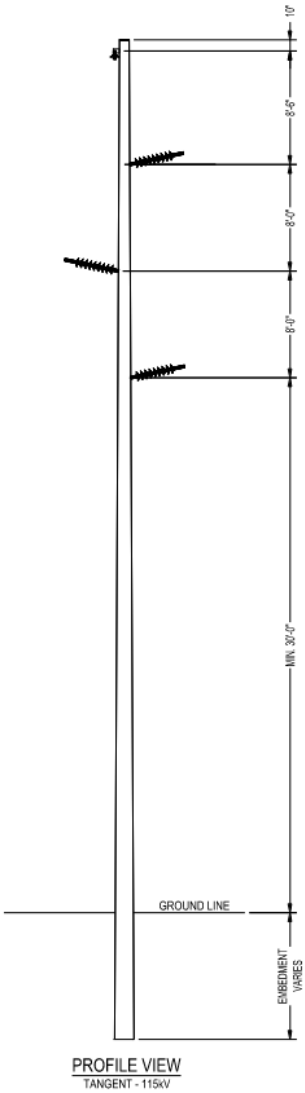
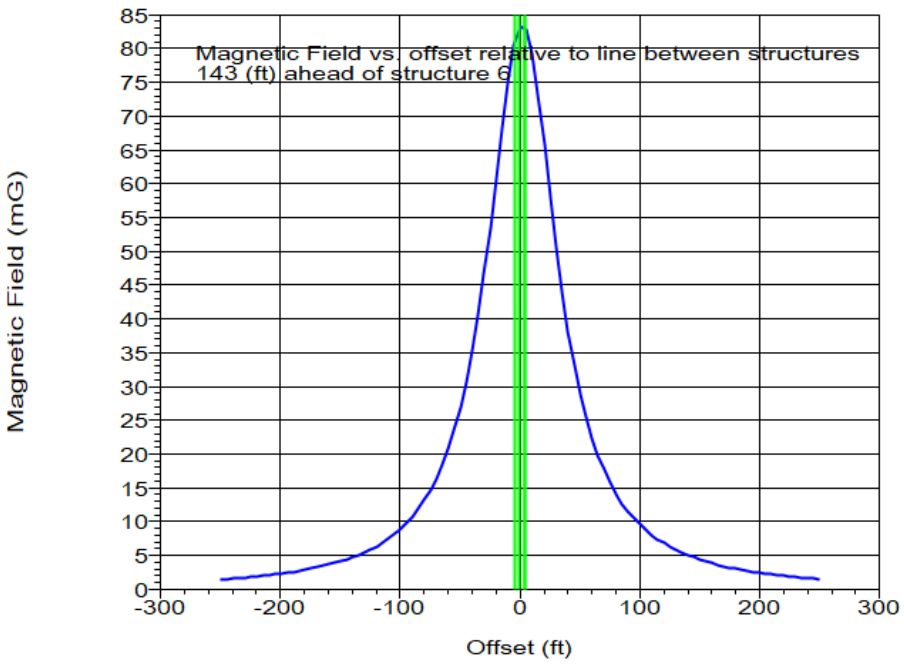
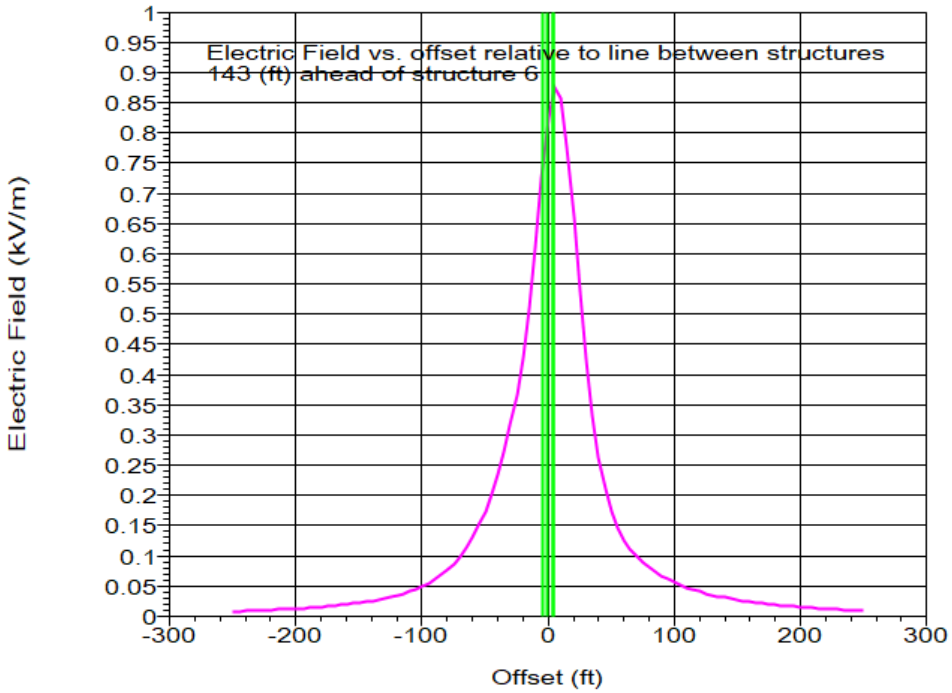


Figure 2. Proposed Tangent 115kV Overhead Transmission Line

OH1 - MAGNETIC-FIELD



OH1 - ELECTRIC-FIELD



Calculated field strengths are shown below at various distances from centerline.

Distance from Centerline (ft)	Magnetic Field (B) Magnitude (mG)	Electric Field Magnitude (kV/m)
250	1.472	0.008
150	4.174	0.022
100	8.927	0.05
75	14.674	0.087
70	16.404	0.099
65	18.426	0.113
60	20.799	0.13
55	23.598	0.15
50	26.876	0.174
45	30.74	0.202
40	35.294	0.235
35	40.633	0.272
30	46.722	0.316
25	53.492	0.367
20	60.79	0.429
15	68.175	0.51
10	75.041	0.612
5	80.46	0.727
0	83.314	0.826
-5	82.89	0.876
-10	79.239	0.857
-15	73.154	0.775
-20	65.761	0.658
-25	57.981	0.535
-30	50.579	0.423
-35	43.933	0.332
-40	38.14	0.263
-45	33.172	0.212
-50	28.949	0.174
-55	25.376	0.147
-60	22.352	0.127
-65	19.778	0.111
-70	17.582	0.099
-75	15.701	0.089
-100	9.643	0.056
-150	4.411	0.027
-250	1.523	0.009

8. Professional Engineer Approval of Report

Signed:

Sincerely,

Steve Peichel
Vice President
Consulting Engineers Group
Office 651-463-6350

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed professional engineer under the laws of the state of:
California
P.E. License Number: 24302
Steve Peichel, P.E.
Consulting Engineers Group

Appendix 1 – Calculation Output Data

PLS-CADD Version 20.01x64 10:50:06 AM Wednesday, January 8, 2025
Consulting Engineers Group
Project Name: 'Z:\PROJECTS\Other Projects\CEGDUDE01 Seahawk EMF Study\Design Documents and Data\T-Line Design\PLS-CADD\SEA-PLS-01_RA.don'

Criteria Notes:
  Typical 2023 NESC Draft2_3.25.22 Criteria File for PLS-CADD Created June 6, 2022 Version 17.28

  Assumed NESC Heavy Combined Ice and Wind District Loading (Rule 250B)
  Assumed 90 MPH Extreme Wind Loading (Rule 250C); To be verified by the Engineer of Record
  Assumed 1" Extreme Ice with 40 MPH Concurrent Wind Loading (Rule 250D); To be verified by the Engineer of Record
  Assumed Maximum Operating Temperature of 212 F; To be verified by the Engineer of Record
  Assumed 1/2" Extreme Ice (Non-NESC); To be verified by the Engineer of Record
  Assumed Grade B Construction; To be verified by the Engineer of Record

  <<Illustration of NESC provisions include>>
    > Combined Ice and Wind District Loading NESC Heavy per Rule 250B, Page 225
   > Extreme Wind Loading per Rule 250C, Page 225, Coefficients and Gust Response Factors per Equations in Tables 250-2, 250-3(a), and 250-3(b)
   > Assumed 90 MPH Basic Wind Speed, 3 second Gust Wind Speed, Figure 250-2(a) Beginning on Page 235
  **** PLEASE NOTE - NESC 2022 introduced a separate figure (250-2(b)) for Grade C, 3 second Gust Wind Speed, 50 year MRI. Engineering judgement should be
        used when choosing a wind speed for Rule 250C application.
   > Grade B Construction "Method A" per Table 253-1, Page 253 and Table 261-1, Page 265
   > Extreme Ice with Concurrent Wind Loading per Rule 250D, Page 225
   > Assumed 1" Basic Ice Diameter with Concurrent 40 MPH Basic Wind Speed, Figure 250-3 Beginning on Page 239
   > Cable Tension and Automatic Sagging Limits per Rule 261H1, Page 262
    **** NESC Rule 261H1c, Note 2 states that the 'Final' tension limit be applied under the creep condition only.
    **** PLEASE NOTE - Many experts consider these maximum limits to be high and could lead to severe aeolian vibration. As stated in NESC Rule 261H1b, PLS
           recommends checking with your cable manufacturer, damper manufacturer, and/or other standards for recommended values based on the actual vibration mitigation methods used ****
   > Insulator Mechanical Strengths per Rule 277, Page 272- Important Note for Strength Check:
    **** NESC Rule 277 specifically excludes Rule 253 Load Factors for checking the mechanical strength of insulators. This criteria checks insulators for all weather conditions,
           including load factors. This may be considered conservative by some and can be modified if desired. ****
    **** When specifying the insulator strength properties in Components/Insulators in TOWER and PLS-POLE, the manufacturer`s recommended load capacities shall be used
          per NESC Table 277-1. This is normally the RTL and RCL values published by the non-ceramic insulator manufacturers. See IEEE Std 1572-2004 IEEE Guide for Application
          of Composite Line Post Insulators for further clarification. ****
    **** User may prefer to add other specific load cases utilizing alternative Strength Factors ****
    **** Coordination of Load Factors, Strength Factors, and Component strength properties is the responsibility of the Engineer of Record ****
    **** See Tech Note at http://www.powline.com/products/nesc_insulators.html for additional discussion ****
   > Structure Loads criteria includes typical Full Structure DE cases
   > Structure Loads criteria includes extreme wind check per Rule 261A1c (Page 257), Rule 261A2e (Page 258), and Rule 261A3d (Page 258)

  POWER LINE SYSTEMS, INC. IS NOT RESPONSIBLE FOR THE ACCURACY OF THE CONTENT HEREIN OR RESULTS OBTAINED FROM ITS USE ON ANY PROJECT.
  THIS FILE IS PROVIDED FOR ILLUSTRATION ONLY. CRITERIA SHOULD BE CHECKED AND MODIFIED AS NECESSARY BY THE AN ENGINEER IN RESPONSIBLE CHARGE,
  FAMILIAR WITH THE NESC AND LOCAL REQUIREMENTS OF THE AREA IN WHICH THE PROJECT IS LOCATED, AND ITS APPLICATION.
  ENGINEER OF RECORD MUST VERIFY EXTREME WIND, CONCURRENT ICE AND WIND, AND EXTREME ICE PARAMETERS FOR THEIR APPLICABLE REGION.
  ENGINEER OF RECORD MUST VERIFY MAXIMUM OPERATING CONDITION FOR THEIR APPLICABLE PROJECT
  ENGINEER OF RECORD MUST VERIFY CONDITIONS AND FACTORS USED FOR INSULATOR STRENGTH CHECKS
  ENGINEER OF RECORD MUST ADD ANY ADDITIONAL CRITERIA THAT MAY BE REQUIRED BEYOND THE NESC
  ENGINEER OF RECORD MUST REMOVE THIS DISCLAIMER AND MODIFY ALL NOTES ABOVE AS APPLICABLE WHEN ASSUMING CHARGE OF THIS CRITERIA

3D EMF Calculation Notes:
  1) Calculations based on the EPRI Red Book methods (3rd Edition, 2005 - 7.4 Calculation of Magnetic Fields and Appendices 7.1 Calculation of Field Ellipse Parameters and 7.6 Electric Field
Calculations for 3D Geometry).
  2) All wire positions are modeled at the specified weather case and wind direction. Height above ground determined by the modeled ground TIN.
  3) Only the effects of wires are being analyzed. The effects of structures are not included unless enabled as noted below.
  4) Ground return is being ignored for magnetic field calculations.

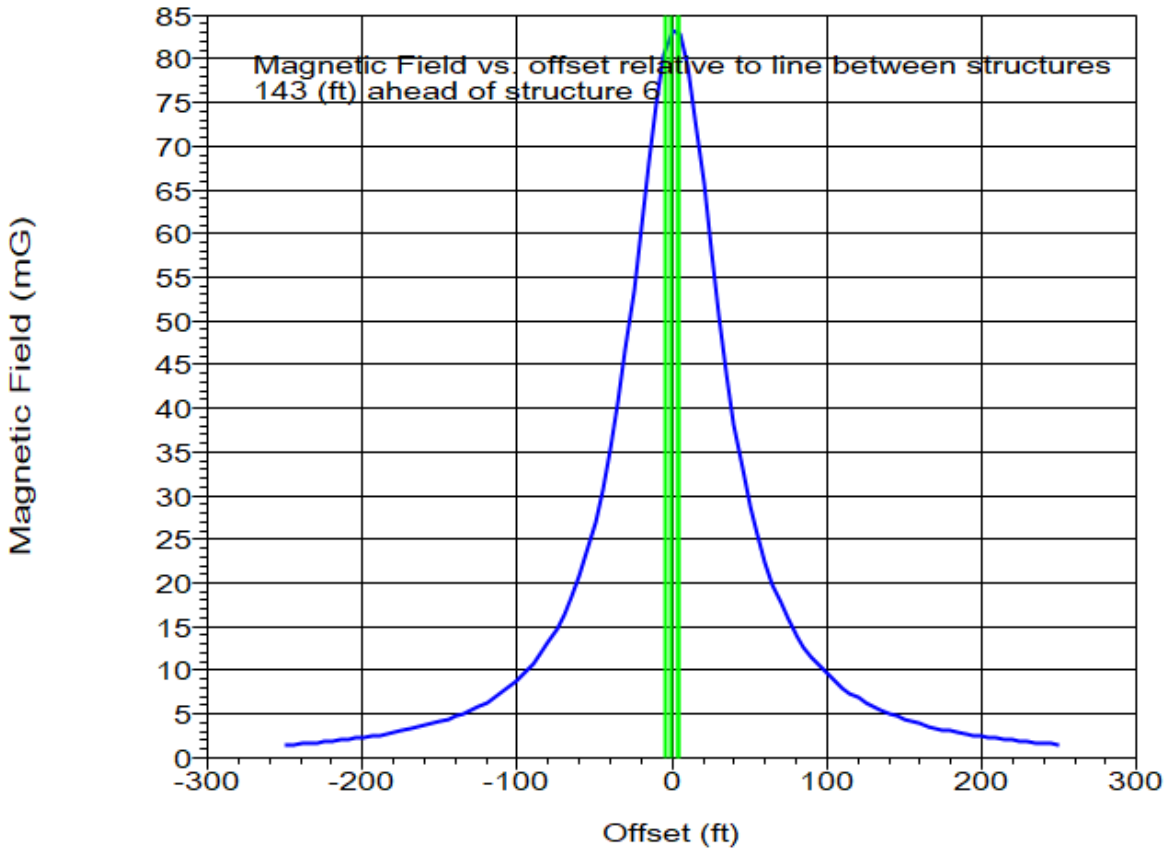
Meter height above ground: 3.28 (ft)
Maximum wire distance: 500.00 (ft)
Maximum cable segment size: 9.80 (ft)
Cross section offset +/-: 250.00 (ft)
Result interval: 5.00 (ft)
Electric field limit: 0.00 (kV/m)
Magnetic field limit: 0.00 (mG)
Space potential limit: 0.00 (kV)
Contour Map Spacing: 15 (ft)
Analyzing spans between these structures: 6 - 7

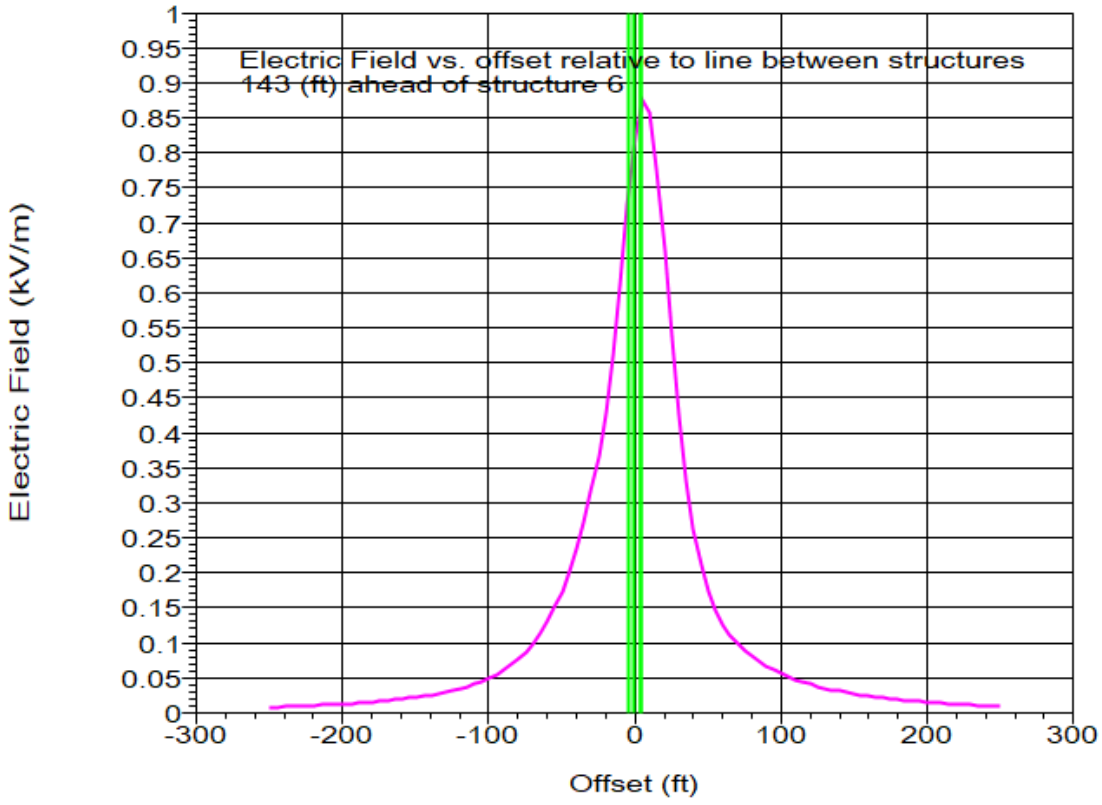
One or more sections have wind from both directions which is not supported. A wind direction of left is being used for those sections.

One or more sections are missing phase labels. Phase angles for these sections are assigned automatically (1 = 0°, 2 = 120°, 3 = -120°) ??
1, 2
Section Data for 3D EMF Results:

Section Number	Section Note	Voltage Ph-Ph (kV)	Current (Amps)	Weather Case	Condition Wind Dir.	WC Temperature (deg F)	Cable Effective Radius (in)	Cable Filename	Cable Description	Conductors Per Phase	Bundle Diameter (in)
1		0.0	0.0	3_8-7_strand_ehs_steel.wir		3/8 inch EHS 7 Strands Steel - Adapted from 1970's Publicly Available Data	0.180	0 Deg F Initial RS	Left	0.000	0.180
2		115.0	1000.0	CARDINAL_ACSR_GA2_GCC.wir	954.0 kcmil 54/7 Cardinal/ACSR/GA2 - General Cable	[Chart A7/C54/0.8853]	Conductor Type 13	1	0.000	0.598	212 Deg F Creep RS	Left	212.000	0.598

Mid-span cross section results between structures 6 and 7


Magnetic Field vs. offset relative to line between structures
143 (ft) ahead of structure 6
Magnetic Field (mG)
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
-300
-200
-100
0
100
200
300
Offset (ft)


Electric Field vs. offset relative to line between structures
143 (ft) ahead of structure 6
Electric Field (kV/m)
1
0.95
0.9
0.85
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-300
-200
-100
0
100
200
300
Offset (ft)

3D EMF Point Results Span from 6 to 7:

Measurement			B					H	EF					Space Potential			
X	Y	Z	Real	Imaginary	Angle	Magnitude	Polarization	Magnitude	Real	Imaginary	Angle	Magnitude	Polarization	Real	Imaginary	Angle	Magnitude
(ft)	(ft)	(ft)	(mG)	(mG)	(deg)	(mG)	Axial Ratio %	(A/m)	(kV/m)	(kV/m)	(deg)	(kV/m)	Axial Ratio %	(kV)	(kV)	(deg)	(kV)
6195052.3	1805958.0	109.5	0.829	1.217	55.7	1.472	68.1	0.117	0.003	0.007	70.2	0.008	0.3	0.002	0.007	77.6	0.008
6195048.1	1805955.4	109.5	0.865	1.270	55.7	1.537	68.1	0.122	0.003	0.008	69.6	0.008	0.3	0.002	0.008	77.2	0.008
6195043.8	1805952.8	109.5	0.904	1.326	55.7	1.605	68.1	0.128	0.003	0.008	69.1	0.009	0.3	0.002	0.008	76.8	0.008
6195039.5	1805950.1	109.5	0.945	1.386	55.7	1.678	68.2	0.134	0.003	0.008	68.5	0.009	0.3	0.002	0.008	76.4	0.009
6195035.3	1805947.5	109.5	0.989	1.450	55.7	1.755	68.2	0.140	0.004	0.009	67.9	0.009	0.3	0.002	0.009	75.9	0.009
6195031.0	1805944.9	109.5	1.036	1.518	55.7	1.838	68.2	0.146	0.004	0.009	67.3	0.010	0.3	0.002	0.009	75.4	0.009
6195026.7	1805942.3	109.5	1.086	1.591	55.7	1.926	68.3	0.153	0.004	0.009	66.6	0.010	0.3	0.003	0.009	74.9	0.010
6195022.5	1805939.7	109.5	1.140	1.668	55.7	2.020	68.3	0.161	0.004	0.010	65.9	0.011	0.3	0.003	0.010	74.3	0.010
6195018.2	1805937.1	109.5	1.198	1.751	55.6	2.121	68.4	0.169	0.005	0.010	65.2	0.011	0.4	0.003	0.010	73.8	0.011
6195013.9	1805934.5	109.5	1.259	1.840	55.6	2.229	68.5	0.177	0.005	0.011	64.4	0.012	0.4	0.003	0.011	73.1	0.011
6195009.7	1805931.9	109.5	1.326	1.935	55.6	2.345	68.5	0.187	0.006	0.011	63.6	0.013	0.4	0.004	0.011	72.5	0.012
6195005.4	1805929.3	109.5	1.398	2.037	55.5	2.470	68.6	0.197	0.006	0.012	62.8	0.013	0.4	0.004	0.012	71.8	0.012
6195001.1	1805926.7	109.5	1.475	2.147	55.5	2.605	68.7	0.207	0.007	0.012	61.9	0.014	0.4	0.004	0.012	71.0	0.013
6194996.9	1805924.1	109.5	1.559	2.265	55.5	2.750	68.8	0.219	0.007	0.013	61.0	0.015	0.5	0.005	0.013	70.3	0.014
6194992.6	1805921.5	109.5	1.649	2.393	55.4	2.906	68.9	0.231	0.008	0.013	60.0	0.016	0.5	0.005	0.013	69.4	0.014
6194988.3	1805918.8	109.5	1.747	2.531	55.4	3.076	69.0	0.245	0.008	0.014	59.0	0.016	0.5	0.006	0.014	68.5	0.015
6194984.1	1805916.2	109.5	1.854	2.681	55.3	3.259	69.2	0.259	0.009	0.015	57.9	0.017	0.6	0.006	0.015	67.6	0.016
6194979.8	1805913.6	109.5	1.970	2.843	55.3	3.459	69.3	0.275	0.010	0.015	56.8	0.018	0.6	0.007	0.016	66.5	0.017
6194975.5	1805911.0	109.5	2.098	3.020	55.2	3.677	69.4	0.293	0.011	0.016	55.6	0.020	0.7	0.007	0.016	65.4	0.018
6194971.3	1805908.4	109.5	2.237	3.213	55.2	3.914	69.6	0.312	0.012	0.017	54.3	0.021	0.7	0.008	0.017	64.2	0.019
6194967.0	1805905.8	109.5	2.389	3.423	55.1	4.174	69.8	0.332	0.013	0.018	53.0	0.022	0.8	0.009	0.018	62.9	0.020
6194962.8	1805903.2	109.5	2.557	3.654	55.0	4.459	70.0	0.355	0.015	0.019	51.6	0.024	0.9	0.010	0.019	61.6	0.022
6194958.5	1805900.6	109.5	2.742	3.907	54.9	4.773	70.2	0.380	0.016	0.020	50.1	0.026	0.9	0.011	0.020	60.1	0.023
6194954.2	1805898.0	109.5	2.946	4.186	54.9	5.119	70.4	0.407	0.018	0.021	48.5	0.028	1.0	0.013	0.021	58.5	0.025
6194950.0	1805895.4	109.5	3.173	4.493	54.8	5.501	70.6	0.438	0.020	0.022	46.8	0.030	1.2	0.014	0.022	56.7	0.026
6194945.7	1805892.8	109.5	3.426	4.834	54.7	5.925	70.8	0.471	0.023	0.023	45.0	0.032	1.3	0.016	0.023	54.9	0.028
6194941.4	1805890.2	109.5	3.708	5.212	54.6	6.397	71.1	0.509	0.025	0.024	43.1	0.035	1.4	0.018	0.024	52.8	0.030
6194937.2	1805887.5	109.5	4.024	5.634	54.5	6.923	71.3	0.551	0.029	0.025	41.1	0.038	1.6	0.021	0.025	50.6	0.033
6194932.9	1805884.9	109.5	4.379	6.106	54.4	7.514	71.6	0.598	0.032	0.026	38.9	0.041	1.7	0.024	0.027	48.2	0.036
6194928.6	1805882.3	109.5	4.780	6.635	54.2	8.178	71.9	0.651	0.036	0.027	36.7	0.045	1.9	0.027	0.028	45.6	0.039
6194924.4	1805879.7	109.5	5.235	7.231	54.1	8.927	72.2	0.710	0.041	0.028	34.2	0.050	2.1	0.031	0.029	42.8	0.042
6194920.1	1805877.1	110.1	5.778	7.934	53.9	9.815	72.6	0.781	0.047	0.029	31.7	0.055	2.9	0.044	0.035	38.3	0.056
6194915.8	1805874.5	110.1	6.376	8.706	53.8	10.791	73.0	0.859	0.054	0.030	28.9	0.062	3.2	0.051	0.036	35.1	0.062
6194911.6	1805871.9	110.1	7.062	9.586	53.6	11.907	73.3	0.947	0.062	0.030	26.0	0.069	3.5	0.059	0.036	31.6	0.069
6194907.3	1805869.3	110.1	7.856	10.595	53.4	13.190	73.7	1.050	0.071	0.030	22.9	0.077	3.9	0.068	0.036	27.8	0.077
6194903.0	1805866.7	110.1	8.779	11.758	53.3	14.674	74.0	1.168	0.082	0.029	19.6	0.087	4.3	0.080	0.035	23.8	0.087
6194898.8	1805864.1	110.2	9.860	13.110	53.1	16.404	74.3	1.305	0.095	0.027	16.1	0.099	4.8	0.094	0.033	19.3	0.100
6194894.5	1805861.5	110.2	11.130	14.684	52.8	18.426	74.6	1.466	0.111	0.024	12.4	0.113	5.4	0.112	0.029	14.6	0.116
6194890.2	1805858.9	110.3	12.629	16.527	52.6	20.799	74.9	1.655	0.129	0.019	8.6	0.130	6.1	0.133	0.022	9.5	0.135
6194886.0	1805856.3	110.3	14.404	18.693	52.4	23.598	75.0	1.878	0.149	0.014	5.2	0.150	6.9	0.157	0.011	4.0	0.158
6194881.7	1805853.6	110.3	16.488	21.225	52.2	26.876	74.9	2.139	0.173	0.014	4.7	0.174	7.8	0.182	-0.006	-2.0	0.182
6194877.4	1805851.0	110.2	18.947	24.206	51.9	30.740	74.5	2.446	0.200	0.030	8.6	0.202	8.9	0.208	-0.032	-8.6	0.210
6194873.2	1805848.4	110.2	21.841	27.724	51.8	35.294	73.8	2.809	0.227	0.058	14.4	0.235	10.2	0.233	-0.068	-16.1	0.243
6194868.9	1805845.8	110.2	25.214	31.864	51.6	40.633	72.6	3.233	0.254	0.099	21.4	0.272	12.0	0.256	-0.118	-24.8	0.282
6194864.6	1805843.2	110.1	29.004	36.630	51.6	46.722	70.9	3.718	0.274	0.157	29.7	0.316	14.1	0.264	-0.185	-34.9	0.322
6194860.4	1805840.6	109.9	33.105	42.017	51.8	53.492	68.7	4.257	0.282	0.234	39.7	0.367	16.1	0.251	-0.268	-46.9	0.367
6194856.1	1805838.0	109.8	37.334	47.975	52.1	60.790	66.1	4.838	0.268	0.335	51.3	0.429	17.5	0.212	-0.370	-60.2	0.427
6194851.8	1805835.4	109.6	41.297	54.243	52.7	68.175	63.1	5.425	0.224	0.458	63.9	0.510	17.3	0.140	-0.487	-73.9	0.506
6194847.6	1805832.8	109.5	44.517	60.410	53.6	75.041	60.1	5.972	0.150	0.593	75.8	0.612	15.3	0.038	-0.611	-86.5	0.612
6194843.3	1805830.2	109.4	46.388	65.742	54.8	80.460	57.1	6.403	0.088	0.721	83.1	0.727	12.1	-0.088	-0.725	83.1	0.730
6194839.0	1805827.6	109.3	46.356	69.227	56.2	83.314	54.4	6.630	0.151	0.813	79.5	0.826	9.1	-0.216	-0.798	74.8	0.827
6194834.8	1805825.0	109.2	44.310	70.053	57.7	82.890	52.2	6.596	0.251	0.840	73.3	0.876	6.8	-0.321	-0.806	68.3	0.868
6194830.5	1805822.3	109.2	40.666	68.008	59.1	79.239	50.5	6.306	0.324	0.793	67.8	0.857	5.5	-0.383	-0.743	62.7	0.836
6194826.2	1805819.7	109.1	36.161	63.592	60.4	73.154	49.3	5.821	0.356	0.688	62.6	0.775	4.9	-0.401	-0.629	57.5	0.746
6194822.0	1805817.1	109.0	31.507	57.722	61.4	65.761	48.6	5.233	0.355	0.554	57.4	0.658	5.0	-0.384	-0.494	52.1	0.626
6194817.7	1805814.5	108.9	27.139	51.238	62.1	57.981	48.4	4.614	0.332	0.419	51.6	0.535	5.4	-0.344	-0.359	46.2	0.497
6194813.4	1805811.9	108.7	23.306	44.889	62.6	50.579	48.3	4.025	0.299	0.300	45.1	0.423	5.9	-0.296	-0.244	39.5	0.384
6194809.2	1805809.3	108.6	20.057	39.087	62.8	43.933	48.5	3.496	0.263	0.204	37.8	0.332	6.3	-0.249	-0.157	32.3	0.295
6194804.9	1805806.7	108.5	17.337	33.971	63.0	38.140	48.9	3.035	0.228	0.130	29.7	0.263	6.5	-0.207	-0.095	24.7	0.228
6194800.6	1805804.1	108.3	15.068	29.552	63.0	33.172	49.3	2.640	0.197	0.077	21.2	0.212	6.5	-0.171	-0.053	17.2	0.179
6194796.4	1805801.5	108.2	13.173	25.779	62.9	28.949	49.7	2.304	0.170	0.039	12.9	0.174	6.1	-0.140	-0.025	10.0	0.142
6194792.1	1805798.9	108.1	11.584	22.578	62.8	25.376	50.2	2.019	0.147	0.014	5.5	0.147	5.5	-0.116	-0.007	3.6	0.116
6194787.9	1805796.3	108.0	10.247	19.865	62.7	22.352	50.7	1.779	0.127	0.009	4.3	0.127	4.9	-0.096	0.004	-2.5	0.096
6194783.6	1805793.7	107.9	9.110	17.555	62.6	19.778	51.1	1.574	0.110	0.020	10.1	0.111	4.2	-0.080	0.010	-7.0	0.081
6194779.3	1805791.0	107.8	8.139	15.584	62.4	17.582	51.6	1.399	0.095	0.027	15.8	0.099	3.6	-0.067	0.013	-11.1	0.068
6194775.1	1805788.4	107.7	7.306	13.898	62.3	15.701	52.0	1.249	0.083	0.031	20.7	0.089	3.1	-0.055	0.014	-14.5	0.057
6194770.8	1805785.8	107.5	6.587	12.449	62.1	14.084	52.4	1.121	0.073	0.034	25.0	0.080	2.6	-0.046	0.014	-17.3	0.048
6194766.5	1805783.2	107.4	5.962	11.198	62.0	12.686	52.8	1.010	0.064	0.035	28.8	0.073	2.3	-0.039	0.014	-19.6	0.041
6194762.3	1805780.6	107.4	5.419	10.117	61.8	11.477	53.2	0.913	0.056	0.035	32.0	0.067	2.0	-0.033	0.013	-21.6	0.036
6194758.0	1805778.0	109.5	5.015	9.329	61.7	10.592	53.5	0.843	0.050	0.035	35.0	0.061	3.9	-0.062	0.036	-29.9	0.071
6194753.7	1805775.4	109.5	4.586	8.482	61.6	9.643	53.8	0.767	0.044	0.034	37.5	0.056	3.5	-0.055	0.035	-32.2	0.065
6194749.5	1805772.8	109.5	4.207	7.739	61.5	8.808	54.1	0.701	0.040	0.033	39.7	0.052	3.2	-0.049	0.034	-34.2	0.060
6194745.2	1805770.2	109.5	3.871	7.083	61.3	8.072	54.4	0.642	0.036	0.032	41.7	0.048	2.9	-0.044	0.032	-36.1	0.055
6194740.9	1805767.6	109.5	3.571	6.503	61.2	7.419	54.7	0.590	0.032	0.030	43.4	0.044	2.7	-0.040	0.031	-37.7	0.050
6194736.7	1805765.0	109.5	3.303	5.987	61.1	6.838	55.0	0.544	0.029	0.029	45.1	0.041	2.5	-0.036	0.029	-39.3	0.046
6194732.4	1805762.4	109.5	3.063	5.528	61.0	6.320	55.2	0.503	0.026	0.027	46.5	0.038	2.3	-0.033	0.028	-40.6	0.043
6194728.1	1805759.8	109.5	2.847	5.116	60.9	5.855	55.5	0.466	0.024	0.026	47.9	0.035	2.2	-0.030	0.027	-41.9	0.040
6194723.9	1805757.1	109.5	2.652	4.747	60.8	5.437	55.7	0.433	0.021	0.025	49.1	0.033	2.0	-0.027	0.025	-43.1	0.037
6194719.6	1805754.5	109.5	2.475	4.414	60.7	5.061	55.9	0.403	0.020	0.024	50.3	0.031	1.9	-0.025	0.024	-44.2	0.034
6194715.3	1805751.9	109.5	2.315	4.113	60.6	4.720	56.1	0.376	0.018	0.022	51.3	0.029	1.8	-0.022	0.023	-45.3	0.032
6194711.1	1805749.3	109.5	2.168	3.841	60.6	4.411	56.3	0.351	0.016	0.021	52.3	0.027	1.7	-0.021	0.021	-46.3	0.030
6194706.8	1805746.7	109.5	2.035	3.593	60.5	4.129	56.5	0.329	0.015	0.020	53.3	0.025	1.6	-0.019	0.020	-47.2	0.028
6194702.5	1805744.1	109.5	1.913	3.367	60.4	3.873	56.7	0.308	0.014	0.019	54.1	0.024	1.6	-0.017	0.019	-48.0	0.026
6194698.3	1805741.5	109.5	1.801	3.161	60.3	3.638	56.9	0.290	0.013	0.018	54.9	0.022	1.5	-0.016	0.018	-48.9	0.024
6194694.0	1805738.9	109.5	1.699	2.972	60.2	3.423	57.1	0.272	0.012	0.017	55.7	0.021	1.4	-0.015	0.017	-49.6	0.023
6194689.7	1805736.3	109.5	1.604	2.799	60.2	3.226	57.2	0.257	0.011	0.017	56.4	0.020	1.4	-0.014	0.017	-50.4	0.022
6194685.5	1805733.7	109.5	1.517	2.640	60.1	3.044	57.4	0.242	0.010	0.016	57.1	0.019	1.3	-0.013	0.016	-51.1	0.020
6194681.2	1805731.1	109.5	1.436	2.493	60.0	2.877	57.5	0.229	0.009	0.015	57.7	0.018	1.3	-0.012	0.015	-51.8	0.019
6194676.9	1805728.5	109.5	1.362	2.357	60.0	2.722	57.7	0.217	0.009	0.014	58.3	0.017	1.2	-0.011	0.014	-52.4	0.018
6194672.7	1805725.8	109.5	1.293	2.232	59.9	2.579	57.8	0.205	0.008	0.014	58.9	0.016	1.2	-0.010	0.014	-53.0	0.017
6194668.4	1805723.2	109.5	1.228	2.115	59.9	2.446	58.0	0.195	0.008	0.013	59.5	0.015	1.1	-0.010	0.013	-53.6	0.016
6194664.1	1805720.6	109.5	1.168	2.008	59.8	2.323	58.1	0.185	0.007	0.012	60.0	0.014	1.1	-0.009	0.012	-54.2	0.015
6194659.9	1805718.0	109.5	1.113	1.907	59.7	2.208	58.3	0.176	0.007	0.012	60.5	0.014	1.0	-0.008	0.012	-54.8	0.014
6194655.6	1805715.4	109.5	1.061	1.814	59.7	2.101	58.4	0.167	0.006	0.011	61.0	0.013	1.0	-0.008	0.011	-55.3	0.014
6194651.3	1805712.8	109.5	1.012	1.727	59.6	2.001	58.5	0.159	0.006	0.011	61.4	0.012	1.0	-0.007	0.011	-55.8	0.013
6194647.1	1805710.2	109.5	0.967	1.645	59.6	1.908	58.7	0.152	0.006	0.010	61.9	0.012	0.9	-0.007	0.010	-56.3	0.012
6194642.8	1805707.6	109.5	0.924	1.569	59.5	1.821	58.8	0.145	0.005	0.010	62.3	0.011	0.9	-0.006	0.010	-56.8	0.012
6194638.5	1805705.0	109.5	0.884	1.498	59.4	1.739	59.0	0.138	0.005	0.010	62.7	0.011	0.9	-0.006	0.009	-57.2	0.011
6194634.3	1805702.4	109.5	0.847	1.431	59.4	1.662	59.1	0.132	0.005	0.009	63.1	0.010	0.8	-0.006	0.009	-57.7	0.011
6194630.0	1805699.8	109.5	0.811	1.368	59.3	1.590	59.2	0.127	0.004	0.009	63.4	0.010	0.8	-0.005	0.009	-58.1	0.010
6194625.7	1805697.2	109.5	0.778	1.309	59.3	1.523	59.4	0.121	0.004	0.008	63.8	0.009	0.8	-0.005	0.008	-58.6	0.010

Appendix 2G
Decommissioning Plan

Draft Decommissioning Plan

Seahawk Battery Energy Storage Project

APRIL 2026

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Table of Contents

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
APN	Assessor's Parcel Number
Applicant	Sequoia Energy Storage 1 LLC
BESS	Battery Energy Storage System
CEC	California Energy Commission
ERP	Emergency Response Plan
gen-tie	generation interconnection line
kV	kilovolt
LORS	Laws, Ordinances, Regulations, and Standards
O&M	Operations and Maintenance
PG&E	Pacific Gas and Electric Company
Plan	Draft Decommissioning Plan
SCADA	Supervisory Control and Data Acquisition
POCO	Point of Change of Ownership
POI	Point of Interconnection
Project	Seahawk Battery Energy Storage System Project
Project Substation	On-site collector substation
UL	Underwriters Laboratories

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1 Introduction

This Draft Decommissioning Plan (Plan) establishes the framework to conduct decommissioning activities for the permanent closure of all or a portion of the Seahawk Battery Energy Storage System (BESS) Project (Project). This Plan describes the approach for removal and/or proper abandonment of facilities and equipment associated with the Project and describes potential land restoration activities. In the event of unexpected, or planned, permanent cessation of operations, the Applicant will submit a Final Decommissioning Plan to the California Energy Commission (CEC) for approval prior to planned decommissioning activities that will incorporate then-applicable laws, ordinances, regulations, and standards (LORS).

1.1 Project Overview and Location

Sequoia Energy Storage 1 LLC (Applicant), a subsidiary of New Leaf Energy, proposes to construct, operate, and eventually repower or decommission the 200-megawatt Project located on an approximately 47-acre agricultural site (Assessor's Parcel Numbers [APNs] 051-101-77 and 051-101-78) in unincorporated Santa Cruz County, California. The Project would be constructed on approximately 16-acres (site plan area including setbacks and access roads) on the north-easterly portion of the property; a long-term land lease is proposed to accommodate development of the BESS. The Project BESS is located on a portion of APN 051-101-77 and the generation interconnection (gen-tie) line is located on portions of APNs 051-101-77 and 051-091-03. Development of the BESS facility would occur on an area of land that is currently an apple orchard. The remaining area within the parcel, as well as the adjacent APN 051-101-78, would be put under a long-term conservation easement. The Project is within the U.S. Geological Survey 7.5-minute Watsonville West quadrangle, Township 11S, Range 2E, and Section 28.

The primary components of the Project include battery storage containers, inverters and transformers, an on-site collector substation (Project Substation), a gen-tie line, an operations and maintenance (O&M) building, a fire protection system, access improvements, stormwater management, a noise wall, Supervisory Control and Data Acquisition (SCADA) system, and temporary construction laydown areas.

The Project would consist of lithium-iron phosphate batteries, or similar technology, installed in racks inside prefabricated energy storage containers, with integrated power conversion equipment and fire suppression systems, in compliance with all applicable standards. In addition, the Project would have on-site interconnection equipment including transformers. The Project would interconnect from the Project Substation to the adjacent Pacific Gas and Electric Company (PG&E) Green Valley Substation via a 115-kilovolt (kV) gen-tie line. The line would be installed underground from the Project Substation to the Point of Change of Ownership (POCO) at an overhead riser pole on the PG&E parcel, and an overhead line would connect to the Point of Interconnection (POI) at the PG&E Green Valley Substation.

The facility would be an outdoor BESS installation, containing 245 battery blocks that would house the energy storage batteries, all located on a concrete pad surrounded by gravel. No battery blocks would be located within an enclosed structure. There would be room for 21 additional battery blocks for future augmentation, for a total of 266 battery blocks. The Project would also include all required off-site improvements, including a secondary emergency access route and improvements necessary to provide water service as required to meet California Fire Code and emergency response requirements.

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2 Plan Purpose and Objectives

The purpose of this Plan is to provide an initial framework for decommissioning activities for the permanent closure of all or a portion of the Project. This Plan describes the approach for removal and/or proper abandonment of facilities and equipment associated with the Project and describes anticipated land restoration activities in accordance with applicable regulatory codes and mitigation commitments.

The decommissioning phase of the Project would include an Emergency Response Plan (ERP). The ERP includes the plan development in addition to regular training and updates. The ERP takes into account common items, including a description of the equipment; procedures on how to safely shutdown, de-energize, or isolate the equipment to reduce the risk of fire, electric shock, and personal injuries; emergency procedures to be followed in case of fire, explosion, release of vapors, or other emergency; safety data sheet procedures and schedules for on-site training; and any other procedures or critical safety issues specific to the BESS installation. The Applicant will submit a Final Plan to CEC for approval prior to planned decommissioning activities that will incorporate then-applicable LORS.

This Plan identifies the following:

1. Components involved with the construction of the Project.
2. Decommissioning activities for the Project, which may include removal of industrial facilities and compliance with then-applicable LORS, including recycling of equipment, hazardous waste, and sampling and cleanup issues; and disposal of all solid and hazardous waste.

Laws, Ordinances, Regulations, and Standards Related to Decommissioning

There are no federal, state, or local LORS specific to decommissioning standalone BESS. Decommissioning of the Project would be completed in conformance with the LORS that are in effect at the time of decommissioning, and/or conditions of compliance from CEC.

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3 Project Components

The Project would include construction, O&M, and eventual decommissioning of a 200-megawatt BESS. A 115-kV gen-tie, connecting the Project Substation to the POI within the existing PG&E Green Valley Substation, would facilitate charging and discharging to the electrical grid. The BESS facility would include the following primary components:

- Battery Storage Containers
- Inverters and Transformers
- Project Substation
- Gen-Tie Line
- Access Improvements
- Supervisory Control and Data Acquisition
- Temporary Construction Laydown Areas
- Stormwater Management
- Noise Wall, Lighting, and Landscaping
- Operations and Maintenance Building
- Fire Protection System

The Project's components that are anticipated to be subject to decommissioning are summarized below.

3.1 Battery Storage Containers

Energy storage containers would provide energy storage capacity and dispatch for the electrical grid. Approximately 266 energy storage containers are planned; each container would be approximately 160 square feet with an estimated height of 10 feet. The BESS facility will utilize lithium-iron phosphate batteries, or similar technology.

3.2 Inverters and Transformers

Power inverters to convert between alternative current and direct current would be included, along with transformers that would step up the voltage.

3.3 Project Substation

The Project substation would be located in the northwest corner of the Project site, directly east of the existing PG&E Green Valley Substation. The Project substation would step the electricity from the inverter-transformer to the voltage level of the transmission system.

3.4 Gen-Tie Line

The Project would interconnect from the Project Substation to the adjacent PG&E Green Valley Substation via a 115-kV gen-tie line. The line would be installed underground from the Project Substation to the POCO on the PG&E parcel, and an overhead line would connect to the POI at the PG&E Green Valley Substation.

3.5 Access Improvements

Access to the Project would be via Minto Road. A 20-foot-wide gravel access road would be constructed around and through the BESS facility and to the Project substation. An approximately 20-foot-wide access gate would be installed at the entrance of the access road to ensure security of the site.

Proposed secondary access roads include three options which will be evaluated as part of the Project. The three options being considered would extend the on-site access to the south, along the Project's south/southeastern boundaries. Options 1 and 2 would go through a County-owned property (APN 051-101-59) to the south along two different alignments, to connect to Grimmer Road. Option 1 would extend through undeveloped land and a parking area to connect to Grimmer Road that serves the County's parcel. Option 2 would extend from the Project property through an existing parking area on the County's parcel to extend to Grimmer Road. Option 3 would extend southwest within APN 051-101-78, cross into the southern adjoining parcel (APN 051-101-53), continue southeast before turning west, then continuing southeast and terminating where the Grimmer Road public right of way starts.

3.6 Supervisory Control and Data Acquisition

One control enclosure for the SCADA system would be located on site to allow off-site monitoring.

3.7 Temporary Construction Laydown Areas

Up to two designated areas for parking and equipment and material staging and storage would be located on site during construction. The laydown area(s) will be located in the western portion of the Project site, near the site entrance.

3.8 Stormwater Management

The BESS facility would include a gravel base, and concrete drainage channels along the northern and southern sides of the facility that would connect to bio-filtration ponds to collect and treat stormwater runoff.

3.9 Noise Wall, Lighting, and Landscaping

The Project BESS facility site will be enclosed within a noise mitigation wall ("noise wall"), which will double as a security wall to prevent unauthorized access. The noise wall would be 14 feet tall along the northern and northeastern sides of the facility and 12 feet high on the southeastern and southern sides of the facility. The drainage channels would be on the outside of the noise wall, and the wall would be surrounded by a landscaped perimeter with a mix of trees and primarily native shrubs. The Project would include minimal lighting for safety at night, consisting of motion-activated lighting.

3.10 Operations and Maintenance Building

An existing residential structure located near the northwestern side of the Project site along Minto Road will be utilized as an office space for the BESS. No additional O&M buildings are proposed for construction on-site. Additional structures adjacent to the proposed O&M building will remain in use for agricultural operations.

3.11 Fire Protection System

Fire protection systems will be incorporated within each individual BESS enclosure and will include remote monitoring. The Project's fire protection system would comply with all applicable standards including Underwriters Laboratories (UL) 9540A, UL 1973, UL 1741, and UL 9540; Institute of Electrical and Electronics Engineers C2; National Fire Protection Association 550; National Fire Protection Association 855; the International Fire Code and California Fire Code.

4 Construction, Operation, and Facility Decommissioning

4.1 Construction

Construction of the Project is expected to take approximately 12 to 18 months. Construction activities would include site preparation, grading, battery/container installation, substation installation, gen-tie installation, stormwater protection installation, and energization.

4.2 Operation

Upon completion of construction, the facility would operate continuously for approximately 30 to 35 years, charging from the electrical grid when demand is low and discharging when demand is high, providing additional capacity to the electrical grid. The facility would operate unstaffed and be monitored remotely through the SCADA system.

Routine maintenance and scheduled operation of the fully developed project is expected to require up to eight workers on a weekly basis. Typically, one major maintenance inspection would occur annually, requiring up to 20 workers for approximately one week. In addition, up to six workers would visit the site every two to three years to add or connect additional batteries to the facility using a crane and a forklift, within the proposed facility boundary.

Operational access and parking would be the same as construction. There would be no material storage on site during operation. The Project would include placards as required by the National Electric Code and nameplates identifying the equipment manufacturer and system owner.

4.3 Facility Decommissioning

The operational lifespan of the Project would be up to approximately 35 years, after which time the facility may be decommissioned. Following decommissioning, the use of the land would return to a use that is consistent with the County of Santa Cruz General Plan and Zoning Ordinance.

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5 Closure

Facility closure can be temporary or permanent. Temporary closure is defined as a shutdown for a period exceeding the time required for normal maintenance, with an intent to restart in the future. Causes for temporary closure may include equipment upgrades and repowering the Project or damage to the Project components from earthquake, fire, storm, or other natural acts. Permanent closure is defined as a cessation in operations with no intent to restart operations.

Temporary closures are not discussed in this Plan because it is assumed that the Project would be restarted once repairs are made or the condition causing the temporary closure is corrected. As used here, "closure" is synonymous with decommissioning and includes removal of the facilities and materials that were employed to support the operation of the facility.

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6 Decommissioning and Recycling

At the time of decommissioning, this Plan would be finalized and submitted to CEC for approval that describes the proposed equipment to be removed and equipment that would remain for future use, based on expected future use of the site. Decommissioning of BESS components involves dismantling the energy storage system and removing it from the site in compliance with applicable federal and local rules that govern the safe transport and disposition of used equipment or waste. Transmission interconnection facilities would remain in place for the life of the facility. At the time of full Project decommissioning, if the transmission interconnection and distribution lines and communications lines would not be further used by a public or private utility or power generator, the lines would be decommissioned. Decommissioning of the transmission and communications lines would take place only after the substation and lines are fully de-energized and made safe for removal. The aboveground portion of the line would entail removal of the overhead conductors, wiring, and poles. The belowground portion would entail removal of the lines and conduit, where possible. Decommissioning would attempt to maximize recycling of all facility components. All steel and concrete would be recycled to the maximum extent possible, and the foundations would be removed to a depth of at least 3 feet below the ground surface. Aluminum, copper, and other metals from the overhead conductors would be recycled to the maximum extent possible. The key Project components to be affected by decommissioning activities are discussed below. The general decommissioning approach would be the same whether a portion of the Project or the entire Project would be decommissioned.

6.1 Decommissioning Preparation

The first step in the decommissioning process would be to assess existing site conditions and prepare the site for demolition. All site decommissioning would occur within the existing noise wall; the noise wall would be the last component to be removed. Preparation activities may include electrical inspections in addition to inspections of access routes, security walls, and gates. Repairs or improvements may occur if inspections identify electrical, road, fencing, or gate improvements or repairs that must be made prior to decommissioning activities. Demolition debris would be placed in temporary on-site storage area(s) pending final transportation and disposal/recycling according to the procedures listed below.

6.2 BESS Removal and Recycling

During decommissioning, Project components that are no longer needed would be removed from the site and recycled. All underground cables would be excavated and removed or abandoned in-place 3 feet below grade for all underground conductors. Inverters and BESS containers would be removed from concrete foundations or piling, and the foundations would be removed or abandoned in place 3 feet below grade. All wiring, cables, heating, cooling, and ventilation equipment would be disconnected from the BESS containers and batteries. Demolition debris and removed equipment may be cut or dismantled into pieces that can be safely lifted or carried by the on-site equipment being used.

6.2.1 Battery Recycling

Batteries would be recycled at a specialized recycling plant, and the remaining BESS components would be recycled or disposed of in accordance with the procurement documents provided by the battery manufacturer.

6.2.1.1 Battery Recycling Technology

It is anticipated that the availability of end-of-life battery recycling centers will increase along with battery production. As of late 2021, there were 32 lithium battery recycling facilities globally, with the majority located in China and four in North America. Five additional plants are planned for the United States and Mexico (Baum et al. 2022). Strategic global demand for precious metals, along with the fledgling green-energy market, continue to drive technological advances in recycling (Gellerman 2022). Recycling enhancements and innovation are anticipated to continue and are anticipated to be in place by the projected end of life of the proposed BESS, estimated to be approximately 35 years after the start of operations.

The location and options for recycling lithium batteries associated with the Project will be determined during Final Plan preparation.

6.3 Access Roads and Wall

Access roads would be disked for decompaction purposes and the perimeter wall would be removed, if it will not be used for a future development, using rubber-tired dozers, tractors, loaders, and backhoes.

6.4 Hazardous Materials and Waste

During the decommissioning process, there is a chance that hazardous waste may be generated. In the event that decommissioning activities generate hazardous waste, it would be stored, handled, and disposed of according to local, state, and federal regulations.

7 Site Reclamation

The decommissioning process would remove BESS-related structures and infrastructure as described in the previous sections. The Project owner would contract with a qualified reclamation contractor to evaluate and prescribe specific reclamation measures. The reclamation contractor would coordinate with the Project owner to ensure that the prescriptions are implemented as written.

Reclamation may restore landform features, vegetative cover, and hydrologic function after closure of the facility. The process may involve either replacement of topsoil, brush, rocks, and natural debris over disturbed areas so that the site blends with the surrounding landscape or stabilizing the soil to prepare the site for a future use.

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8 References

Baum, Z.J., R.E. Bird, X. Yu, and J. Ma. 2022. "Lithium-Ion Battery Recycling—Overview of Techniques and Trends." ACS Energy Letters 7(2): 712–719. Accessed October 2025. https://pubs.acs.org/doi/10.1021/acsenergylett.1c02602.

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