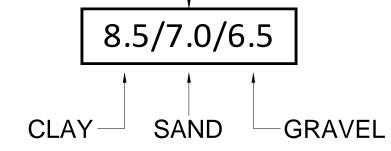
60 CELL MODULE

LEGEND GROUND SNOW LOAD (PSF)

					(
		0	5	10	15
ASCE 7-05	90	8.0/6.5/6.0	8.0/6.5/6.0	8.0/6.5/6.0	8.0/6.5/6.0
WIND SPEED	100	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5
(MPH)	110	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5
	120	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5

DEPTH OF CONCRETE — BELOW GRADE IN FEET



USING THE CONCRETE PIER DEPTH CHART

- 1. FOR 60 CELL MODULE, FIND ARRAY SIZE IN CHART
- 2. IDENTIFY SITE WIND SPEED AND GROUND SNOW LOAD
- 3. IDENTIFY SOIL TYPE

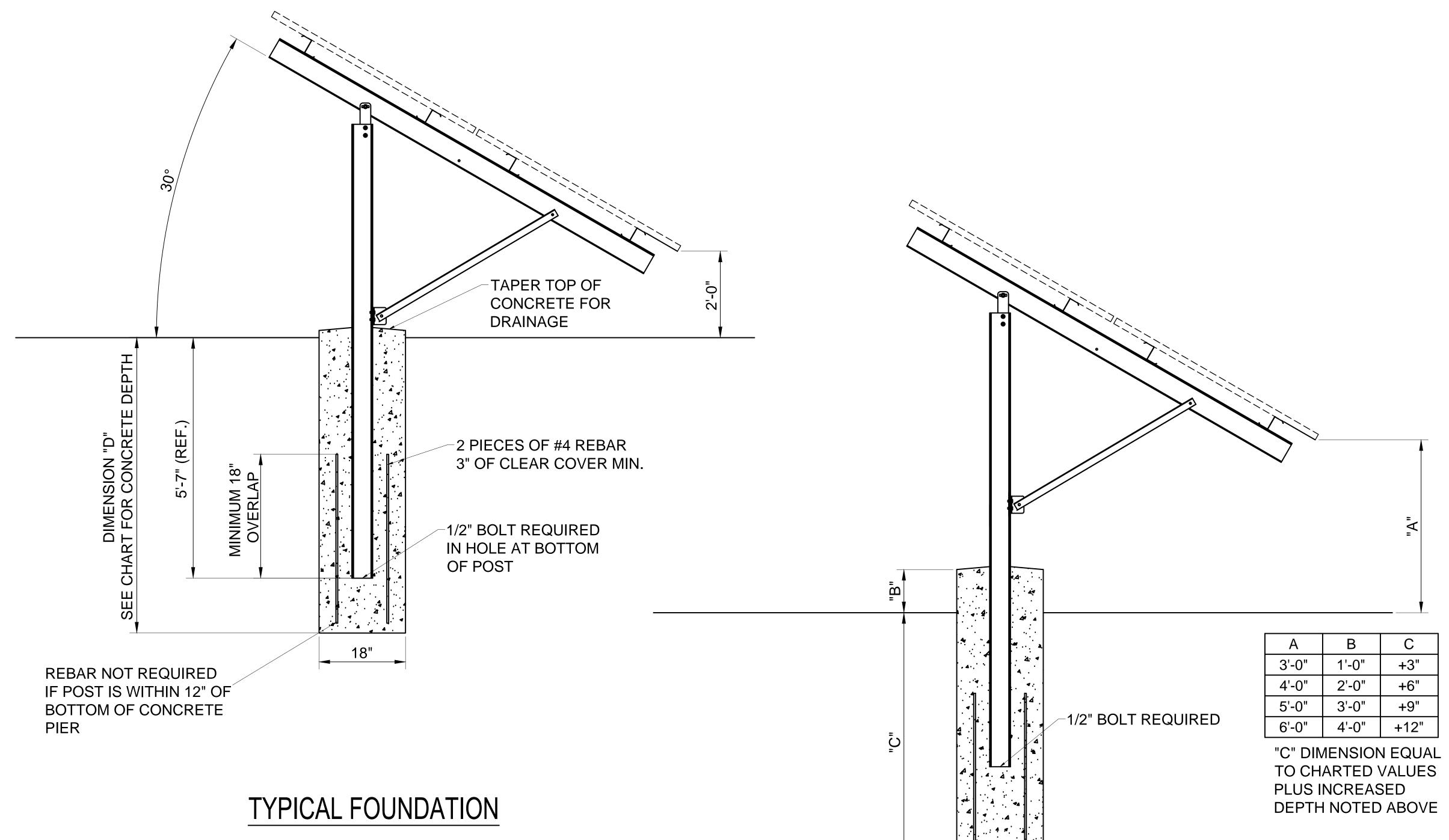
FOR EXAMPLE, FROM THE CHART IN THE LEGEND:

100 MPH AND 5 PSF YIELDS - 8.5/7.0/6.5

FOR SANDY SOIL, A 7.0 FT DEPTH IS REQUIRED

NOTES:

- 1. PRESUMPTIVE LOAD BEARING VALUES FOR IBC SOIL CLASS 5/4/3 ASSUMED FOR CLAY/SAND/GRAVEL CALCULATIONS PER TABLE 1806.2 OF THE 2012 IBC.
- 2. DETERMINATION OF THE SITE SPECIFIC SOIL TYPE(S) AND/OR DEISGN VALUES IS THE RESPONSIBILITY OF THE CUSTOMER. IT IS RECOMMENDED THAT A GEOTECHNICAL ENGINEER PROVIDE SOIL DESIGN PARAMETERS AND REQUIREMENTS FOR EACH SITE.
- 3. A 24" DIAMETER CONCRETE PIER CAN BE USED WITH A REDUCTION OF 0.5 FT FROM CHARTED DEPTH.
- 4. OTHER SITE SPECIFIC SOIL CONDITIONS INCLUDING BUT NOT LIMITED TO: SOIL CORROSIVE PROPERTIES, COBBLES, DEPTH OF BEDROCK, WATER TABLE LOCATION, VARYING SOIL CONDITIONS, ETC. ARE NOT CONSIDERED IN THESE CHARTS AND IS THE RESPONSIBILITY OF THE CUSTOMER TO ADDRESS
- CHARTS APPLY TO FLAT GROUND (LESS THAN 5° SLOPE) CONDITIONS ONLY
- 6. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (F'C) OF 3500 PSI UNLESS A LESSER COMPRESSIVE STRENGTH IS ALLOWED PER THE GOVERNING BUILDING CODE AND/OR THE GOVERNING JURISDICTION



INCREASED LEADING EDGE FOUNDATION

CONCRETE PIER DEPTH CHART (DIMENSION "D")

2 x 6 ARRAY

	0	5	10	15	20	25	30	35	40	45	50
90	8.0/6.5/6.0	8.0/6.5/6.0	8.0/6.5/6.0	8.0/6.5/6.0	8.0/7.0/6.0	8.0/7.0/6.0	8.0/7.0/6.0	8.5/7.0/6.5	8.5/7.0/6.5	7.5/6.5/6.0	7.5/6.5/6.0
100	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5
110	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5
120	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5

2 x 7 ARRAY

	0	5	10	15	20	25	30	35	40	45	50
90	7.5/6.5/6.0	7.5/6.5/6.0	7.5/6.5/6.0	7.5/6.5/6.0	7.5/6.5/6.0	7.5/6.5/6.0	7.5/6.5/6.0	7.5/6.5/6.0	7.5/6.5/6.0	7.5/6.5/6.0	7.5/6.5/6.0
100	8.0/7.0/6.0	8.0/7.0/6.0	8.0/7.0/6.0	8.0/7.0/6.0	8.0/7.0/6.0	8.0/7.0/6.0	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5
110	8.5/7.0/6.0	8.5/7.0/6.0	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5
120	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5

2 x 8 ARRAY

	0	5	10	15	20	25	30	35	40	45	50
90	8.0/7.0/6.0	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5
100	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5
110	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	9.0/7.5/6.5	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0
120	8.0/7.0/6.0	8.0/7.0/6.0	8.0/7.0/6.0	8.0/7.0/6.0	8.0/7.0/6.0	8.0/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5

2 x 9 ARRAY

	0	5	10	15	20	25	30	35	40	45	50
90	8.0/7.0/6.0	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.0/6.5
100	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5
110	8.5/7.0/6.5	8.5/7.0/6.5	8.0/7.0/6.0	8.0/7.0/6.0	8.0/7.0/6.0	8.0/7.0/6.0	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5
120	8.0/7.0/6.0	8.0/7.0/6.0	8.0/7.0/6.0	8.0/7.0/6.0	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5

2 x 10 ARRAY

	0	5	10	15	20	25	30	35	40	45	50
90	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	7.5/6.5/6.0	8.0/7.0/6.0	8.0/7.0/6.0
100	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.0/7.0/6.5	8.0/7.0/6.5	8.0/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5
110	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5
120	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5

2 x 11 ARRAY

	0	5	10	15	20	25	30	35	40	45	50
90	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	7.5/6.5/6.0	7.5/6.5/6.0	8.0/7.0/6.0	8.0/7.0/6.0	8.0/7.0/6.0
100	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5
110	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5
120	8 0/7 0/6 0	8 0/7 0/6 0	8 0/7 0/6 0	8 n/7 n/6 n	8 N/7 N/6 N	25/75/65	85/75/65	85/75/65	85/75/65	85/75/65	8 5 / 7 5 / 6 5

2 x 12 ARRAY

	0	5	10	15	20	25	30	35	40	45	50
90	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.0/7.0/6.0	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5
100	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5
110	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5
120	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5

2 x 13 ARRAY

	<u> </u>	_	10	15	20	25	30	35	40	45	50
	0	J	10	13	20	23	30	33	40	43	30
90	7.5/6.5/6.0	8.0/7.0/6.0	8.0/7.0/6.0	8.0/7.0/6.0	8.0/7.0/6.0	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5
100	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.0/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5
110	8.0/7.0/6.0	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5
120	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5

2 x 14 ARRAY

	0	5	10	15	20	25	30	35	40	45	50
90	8.0/7.0/6.0	8.0/7.0/6.0	8.0/7.0/6.0	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.0/6.5	8.5/7.0/6.5
100	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5
110	8.5/7.5/6.5	8.5/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5
120	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0

2 x 15 ARRAY

	0	5	10	15	20	25	30	35	40	45	50
90	8.0/7.0/6.0	8.0/7.0/6.0	8.0/7.0/6.0	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.0/7.0/6.0	8.0/7.0/6.0	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5
100	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.0/7.0/6.0	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5
110	8.5/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	8.5/7.0/6.5	9.0/7.5/6.5	9.0/7.5/6.5
120	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0

2 x 16 ARRAY

_												
		0	5	10	15	20	25	30	35	40	45	50
	90	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5
	100	8.0/7.0/6.0	8.0/7.0/6.0	8.0/7.0/6.0	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5
	110	8.5/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/7.0	9.0/7.5/7.0	8.5/7.0/6.5	8.5/7.0/6.5	9.0/7.5/6.5	8.5/7.5/6.5
Ī	120	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0

2 x 17 ARRAY

	0	5	10	15	20	25	30	35	40	45	50
90	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5
100	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5
110	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5
120	8.5/7.5/6.5	8.5/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/8.0/7.0	9.0/8.0/7.0	9.0/8.0/7.0	9.0/8.0/7.0	8.5/7.5/6.5	8.5/7.5/6.5

2 x 18 ARRAY

	0	5	10	15	20	25	30	35	40	45	50
90	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5
100	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	9.0/7.5/6.5	9.0/7.5/6.5	8.0/7.0/6.0	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.5/6.5	8.5/7.5/6.5
110	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	9.0/7.5/6.5
120	8.5/7.5/6.5	8.5/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/8.0/7.0	9.0/8.0/7.0	9.0/8.0/7.0	9.0/8.0/7.0	8.5/7.5/6.5	8.5/7.5/6.5

2 x 19 ARRAY

	0	5	10	15	20	25	30	35	40	45	50
90	8.5/7.0/6.0	8.5/7.0/6.0	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.0/6.5/6.0	8.0/6.5/6.0
100	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	9.0/7.0/6.5	9.0/7.0/6.5	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	8.5/7.5/6.5	8.5/7.5/6.5
110	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	9.0/8.0/7.0	8.5/7.0/6.5
120	9.0/7.5/6.5	9.0/7.5/6.5	9.0/8.0/7.0	9.0/8.0/7.0	9.0/8.0/7.0	8.0/7.0/6.0	8.0/7.0/6.0	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5

2 x 20 ARRAY

	0	5	10	15	20	25	30	35	40	45	50
90	8.5/7.0/6.0	8.5/7.0/6.0	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5	8.5/7.0/6.5
100	9.0/7.0/6.5	9.0/7.0/6.5	9.0/7.0/6.5	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5
110	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	9.0/7.5/7.0	8.5/7.0/6.5	8.5/7.0/6.5
120	8.0/7.0/6.0	8.0/7.0/6.0	8.0/7.0/6.0	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	8.5/7.5/6.5	9.0/7.5/6.5	9.0/7.5/6.5	8.5/7.0/6.5	8.5/7.0/6.5



Energy ered Solar Ma

NGINEER SEAL:

Applied Engine

PROVIDED ENGINEERING DOCUMENTS BUILDING TO TAKE THE BALLASTED LOAD PLUS EQUIPMENT WEIGHT.

PROJECT NAME:

PROJECT LOCATION:

AET RAYPORT G ECO

DO <u>NOT</u> SCALE DRAWING

REPORT ALL DISCREPANCIES

DRAWING DESCRIPTION:

FOUNDATION DETAIL 60 CELL

SHEET NUMBER:

DRAWING NUMBER: