


Anchor Bolt Requirements*						
	Qty	Bolt Dia	Bolt Circle	Initial Bolt Angle	Bolt Length	Yield Strength
MAP-1	6 ea	1.50 in	22 in.	0 deg	54 in	55 ksi
MAP-2	6 ea	1.50 in	20 in	30 deg	54 in	55 ksi
MAP-3	6 ea	1.25 in	17 in	0 deg	42 in	55 ksi
MAP-4	6 ea	1.50 in	20 in	30 deg	54 in	55 ksi
MAP-5	6 ea	1.25 in	17 in	0 deg	42 in	55 ksi
MAP-6	6 ea	1.50 in	22 in	30 deg	54 in	55 ksi
MAP-7	6 ea	1.5 in	20 in	30 deg	54 in	55 ksi
MAP-8	6 ea	1.25 in	17 in	0 deg	42 in	55 ksi
MAP-9	6 ea	1.50 in	20 in	30 deg	54 in	55 ksi
MAP-10	6 ea	1.50 in	19 in	0 deg	54 in	55 ksi
MAP-11	6 ea	1.25 in	17 in	0 deg	42 in	55 ksi
MAP-12	6 ea	1.50 in	19 in	0 deg	54 in	55 ksi

* from Valmont calculation package dated 12-21-2017

MAP Foundation Installation Lengths & Cage Details					
	Diameter	Depth	Long. Bar	Tie Bar	Tie Spacing
MAP-1	3.5 ft	16 ft	18 - #8	#4	12 in
MAP-2	3.5 ft	14 ft	18 - #8	#4	12 in
MAP-3	3.5 ft	9 ft	18 - #8	#4	12 in
MAP-4	3.5 ft	14 ft	18 - #8	#4	12 in
MAP-5	3.5 ft	9 ft	18 - #8	#4	12 in
MAP-6	4.5 ft	11 ft	24 - #9	#4	12 in
MAP-7	3.5 ft	12 ft	18 - #8	#4	12 in
MAP-8	3.5 ft	9 ft	18 - #8	#4	12 in
MAP-9	3.5 ft	12 ft	18 - #8	#4	12 in
MAP-10	3.5 ft	12 ft	18 - #8	#4	12 in
MAP-11	3.5 ft	9 ft	18 - #8	#4	12 in
MAP-12	3.5 ft	12 ft	18 - #8	#4	12 in

MAP Soil Layers (per geotech report)				
	Boring	Layer Thickness	Layer Description	Approx Water Depth
MAP-1	B-108	0 to 8 ft	Medium Dense Sandy Gravel	3.7 ft
		8 to 10 ft	Stiff Silty Clay	
		10 to 15 ft	Stiff Clay	
		15 to 25.4 ft	Very Dense Gravelly Sand	
MAP-2	B-101	0 to 15 ft	Dense Sandy Gravel	15.5 ft
		15 to 18 ft	Stiff Clay	
		18 to 30 ft	Bedrock	
MAP-3	B-104	0 to 6 ft	Dense Sandy Gravel	17.3 ft
		6 to 20 ft	Medium Dense Sandy Gravel	
		20 to 25 ft	Very Dense Sandy Gravelly Silt	
MAP-4	B-106	0 to 4 ft	Medium Dense Gravelly Sand	14.2 ft
		4 to 17 ft	Medium Dense Sandy Silty Gravel	
		17 to 27 ft	Bedrock	
MAP-5	B-105	0 to 3 ft	Dense Sandy Gravel	5.9 ft
		3 to 7 ft	Medium Dense Sand	
		7 to 16.5 ft	Dense Sandy Silt	
		16.5 to 21.5 ft	Bedrock	
MAP-6	B-110	0 to 6 ft	Medium Dense Gravelly Silty Sand	4.2 ft
		6 to 12.5 ft	Very Dense Silty Sandy Gravel	
		12.5 to 17.5 ft	Bedrock	
MAP-7	B-108	0 to 20 ft	Very Dense Silty Sandy Gravel	6.1 ft
		20 to 26 ft	Very Dense Sandy Gravel	
MAP-8	B-107	0 to 8 ft	Medium Dense Gravelly Silty Sand	6.3 ft
		8 to 15 ft	Very Dense Gravelly Sandy Silt	
		15 to 22 ft	Dense Sandy Gravel	
		22 to 27 ft	Bedrock	
MAP-9	B-109	0 to 15 ft	Medium Dense Sandy Silt	1.8 ft
		15 to 25ft	Very Dense Silty Gravelly Sand	
MAP-10	B-113	0 to 10 ft	Medium Dense Sandy Silt	4.0 ft
		10 to 25 ft	Very Dense Silty Sandy Gravel	
MAP-11	B-112	0 to 10 ft	Medium Dense Sandy Silt	0.6 ft
		10 to 25 ft	Very Dense Silty Gravelly Sand	
MAP-12	B-111	0 to 15 ft	Medium Dense Sand	0.9 ft
		15 to 25.5 ft	Very Dense Sandy Gravel	

Report unanticipated soil conditions to B. Stringer (802) 238-2066

 <p>ENGINEERS CONSTRUCTION, INC. P.O. BOX 2187 SOUTH BURLINGTON, VT 05407 (802) 863 - 6389</p>	TITLE:	SCALE:	DATE:	SHEET:
	<p>MAST ARM FOUNDATION DETAIL WILLISTON-ESSEX STMP SGNL (46) WILLISTON-ESSEX, VERMONT</p>	NTS	01/18/2018	2 OF 2
		DWG NO.:	REV	
		WILLISTON-ESSEX STPG SGNL (46)	0	
	DRAWN BY:	CHECKED BY:	APPROVED BY:	
	BLS	KAP	KAP	