



MAVERICK POLES AND STRUCTURE, LLC
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Key to Selecting Pole Standards

RTSP - 30 - 77 - E2 - AB - FP(WH) - DM19 - XX

Category	Pole Height	Wall Thickness	Finish	Standard Drilling Patterns	Optional Features**
RTSP – Round Tapered Steel Pole RNSP – Round Non-tapered Steel Pole STSP – Square Tapered Steel Pole SNSP – Square Non-tapered Steel Pole STHP – Square Tapered Hinged Pole SNHP – Square Non-tapered Hinged Pole	10 = 10' 20 = 20' 25 = 25' 30 = 30' 35 = 35' 40 = 40' 45 = 45' 50 = 50' 60 = 60' 70 = 70' Base Diameter or Width 63 – 6.3" 70 – 7.0" 77 – 7.7" 84 – 8.4" 90 – 9.0" 10 – 10.0" etc....	E – 0.1196" B – 0.1560" N – 0.1793" V – 0.1875" H – 0.2500" Material Yield Strength 1 – 65 ksi 2 – 55 ksi 3 – 46 ksi Base Type AB – Anchor Base EM – Embedded LAB – Less Anchor Bolts+	GV – Galvanized *FP – Finish Painted *GP – Galv and Paint *Standard Colors WH – White DB – Dark Bronze MB – Med Bronze AL – Aluminum BL – Black SP – Special	DM19 – 1 @ 90° DM28 – 2 @ 180° DM29 – 2 @ 90° DM32 – 3 @ 120° DM39 – 3 @ 90° DM49 – 4 @ 90° Standard Tenons T20R – TEN-20-R5 T25R – TEN-25-R5 T30R – TEN-30-R5 T35R – TEN-35-R5 T30S – TEN-30-S5 T35S – TEN-35-S5 T40S – TEN-40-S5 T45S – TEN-45-S5	UP – Upswept Arm bracket SP – Spoke bracket FE – Festoon Box DU – Duplex receptacle GF – Ground Fault Interrupt VB – Vibration Damper BC – Breakaway couplings TB – Transformer Base FB – Full Base Cover NC – Nut Covers CA – Cross Arm BH – Bullhorn Bracket LP – Lightning Protection OL – Obstruction Lights

** Please order accessories per catalog number as a separate line item. Also, please specify quantities, mounting heights and orientations as necessary.

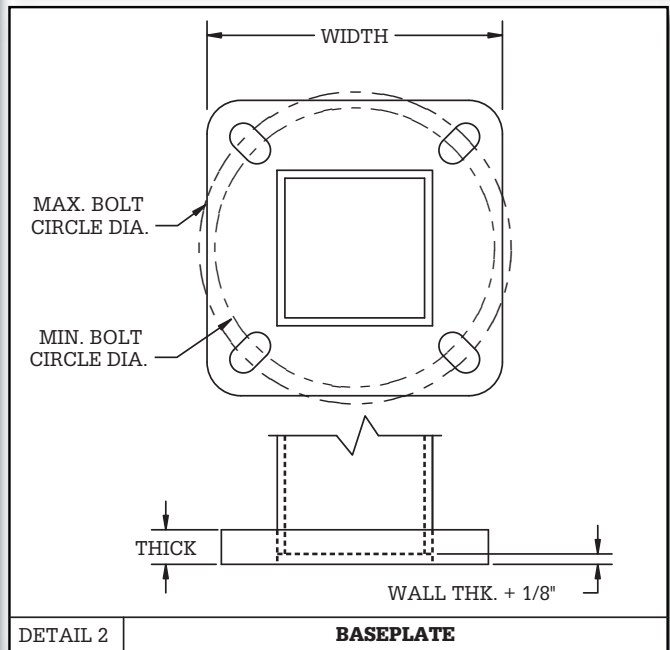
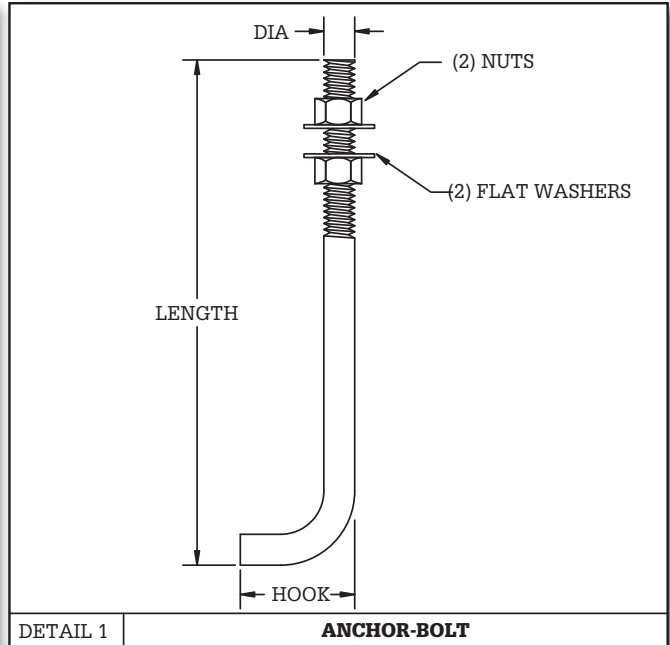
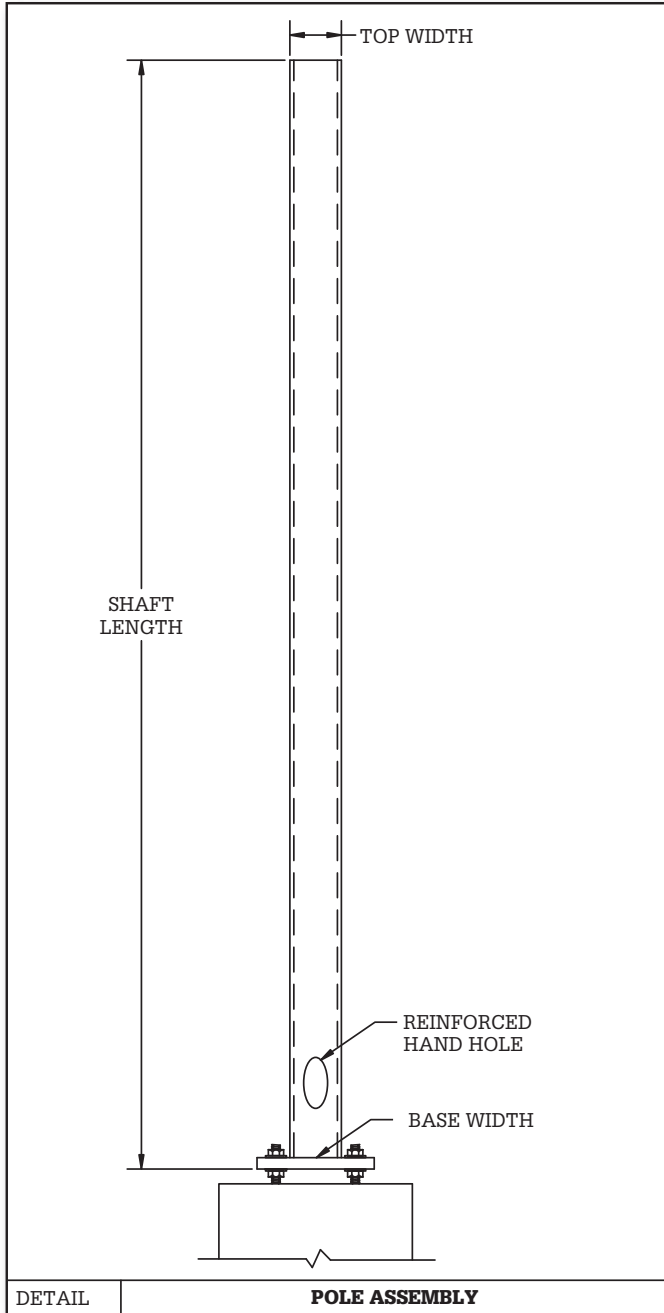
+ Please specify existing situation or special circumstance.

SIX FACTORS ESSENTIAL TO SELECTING THE OPTIMUM STANDARD

- Pole Height** – The pole height will be determined by the lighting requirements as specified by the project designer. These lighting requirements will cause variance in the pole height, which is dependent upon fixture types, lighting level and uniformity requirements.
- Wind Velocity** - The wind velocity shall be determined from either the project specifications or the wind velocity map on page 4-1. This wind velocity map is based upon a 50-year mean recurrence interval. The wind values shown on this map represent wind velocities at 30 feet above the ground. When a project location is sited between adjacent wind zones, the wind zone with the greater wind velocity should be used. Also, please be aware that special wind conditions may exist around mountainous areas or locations with unique terrain. Special design consideration should be given to such areas.
- EPA** - The EPA (Effective Projected Area) of the system should be computed by summing all of the EPA's of the external appurtenances, which are mounted on the pole. The EPA for lighting fixtures can be determined by referencing the appropriate manufacturer's catalog. EPA values for all brackets can be found in the appropriate table located in this catalog.
- Weight** – The weight of the system should be computed by summing all of the weights of the external appurtenances mounted on the pole. Weights of fixtures and brackets can be determined from the appropriate lighting fixture manufacturer's catalog and the appropriate table in this catalog respectively.
- Pole Duty Rating** - The pole duty rating should be determined by comparing the system EPA and weight with the EPA and weight capacities listed in the appropriate maximum loading table located within this catalog. The values detailed in this table reflect the maximum capacities of the respective poles and are based upon a loading centroid located at the top of the pole.
- Pole Base** - The pole base (Anchor Bolt or Embedded) is typically determined by the project specifications.



Square Non-Tapered (Anchor Base)





Square Non-Tapered (Anchor Base)

STRUCTURE DATA										
Catalog Number	Gross Weight (Lbs)	Pole Shaft Data				Base Plate Data			Anchor Bolt Data	
		Base Width (in)	Top Width (in)	Wall Thk. (in)	Shaft Length (ft)	Bolt Circle Range (in)	Plate Width (in)	Plate Thk. (in)	Dia x Lgth x Hk	Anchor Bolt Template Number
SNSP-10-40-E2-AB	79	4.0	4.0	0.1196	10	8 to 9.5	9.00	0.75	.75 x 30 x 3	ABT-900-4
SNSP-12-40-E2-AB	92	4.0	4.0	0.1196	12	8 to 9.5	9.00	0.75	.75 x 30 x 3	ABT-900-4
SNSP-14-40-E2-AB	105	4.0	4.0	0.1196	14	8 to 9.5	9.00	0.75	.75 x 30 x 3	ABT-900-4
SNSP-15-40-E2-AB	112	4.0	4.0	0.1196	15	8 to 9.5	9.00	0.75	.75 x 30 x 3	ABT-900-4
SNSP-16-40-E2-AB	118	4.0	4.0	0.1196	16	8 to 9.5	9.00	0.75	.75 x 30 x 3	ABT-900-4
SNSP-18-40-E2-AB	131	4.0	4.0	0.1196	18	8 to 9.5	9.00	0.75	.75 x 30 x 3	ABT-900-4
SNSP-20-40-E2-AB	144	4.0	4.0	0.1196	20	8 to 9.5	9.00	0.75	.75 x 30 x 3	ABT-900-4
SNSP-20-40-V2-AB	215	4.0	4.0	0.1875	20	8 to 9.5	9.00	0.75	.75 x 30 x 3	ABT-900-4
SNSP-20-50-E2-AB	195	5.0	5.0	0.1196	20	10 to 12	11.50	1.00	.75 x 30 x 3	ABT-110-4
SNSP-20-50-V2-AB	285	5.0	5.0	0.1875	20	10 to 12	11.50	1.00	.75 x 30 x 3	ABT-110-4
SNSP-25-40-E2-AB	182	4.0	4.0	0.1196	25	8 to 9.5	9.00	1.00	.75 x 30 x 3	ABT-900-4
SNSP-25-40-V2-AB	270	4.0	4.0	0.1875	25	8 to 9.5	9.00	1.00	.75 x 30 x 3	ABT-900-4
SNSP-25-50-E2-AB	236	5.0	5.0	0.1196	25	10 to 12	11.50	1.00	.75 x 30 x 3	ABT-110-4
SNSP-25-50-V2-AB	349	5.0	5.0	0.1875	25	10 to 12	11.50	1.00	.75 x 30 x 3	ABT-110-4
SNSP-30-40-V2-AB	320	4.0	4.0	0.1875	30	8 to 9.5	9.00	1.00	.75 x 30 x 3	ABT-900-4
SNSP-30-50-E2-AB	277	5.0	5.0	0.1196	30	10 to 12	11.50	1.00	.75 x 30 x 3	ABT-110-4
SNSP-30-50-V2-AB	308	5.0	5.0	0.1875	30	10 to 12	11.50	1.00	1 x 36 x 4	ABT-110-4
SNSP-30-60-V2-AB	494	6.0	6.0	0.1875	30	11 to 13	12.50	1.00	1 x 36 x 4	ABT-120-4
SNSP-30-70-H2-AB	839	7.0	7.0	0.2500	30	13.5 to 15.5	15.50	1.00	1.25 x 42 x 6	ABT-145-4
SNSP-30-80-H2-AB	960	8.0	8.0	0.2500	30	14.5 to 16.5	16.50	1.00	1.25 x 42 x 6	ABT-155-4
SNSP-35-50-V2-AB	481	5.0	5.0	0.1875	35	10 to 12	12.50	1.00	1 x 36 x 4	ABT-110-4
SNSP-35-60-V2-AB	570	6.0	6.0	0.1875	35	11 to 13	12.50	1.00	1 x 36 x 4	ABT-120-4
SNSP-35-70-V2-AB	683	7.0	7.0	0.1875	35	13.5 to 15.5	15.50	1.00	1 x 36 x 4	ABT-145-4
SNSP-35-70-H2-AB	970	7.0	7.0	0.2500	35	13.5 to 15.5	15.50	1.00	1.25 x 42 x 6	ABT-145-4
SNSP-35-80-H2-AB	1110	8.0	8.0	0.2500	35	14.5 to 16.5	16.50	1.00	1.25 x 42 x 6	ABT-155-4
SNSP-40-60-V2-AB	646	6.0	6.0	0.1875	40	11 to 13	12.50	1.00	1 x 36 x 4	ABT-120-4
SNSP-40-70-V2-AB	772	7.0	7.0	0.1875	40	13.5 to 15.5	15.50	1.00	1 x 36 x 4	ABT-145-4
SNSP-40-70-H2-AB	1100	7.0	7.0	0.2500	40	13.5 to 15.5	15.50	1.00	1.25 x 42 x 6	ABT-145-4
SNSP-40-80-H2-AB	1260	8.0	8.0	0.2500	40	14.5 to 16.5	16.50	1.00	1.25 x 42 x 6	ABT-155-4

STRUCTURE LOADING CAPACITIES												
Catalog Number	Maximum Loading											
	70 mph		80 mph		90 mph		100 mph		110 mph		120 mph	
	EPA (ft²)	Wt. (lbs)	EPA (ft²)	Wt. (lbs)	EPA (ft²)	Wt. (lbs)	EPA (ft²)	Wt. (lbs)	EPA (ft²)	Wt. (lbs)	EPA (ft²)	Wt. (lbs)
SNSP-10-40-E2-AB	41.0	1025	30.5	763	23.5	588	18.5	463	15.0	375	12.0	300
SNSP-12-40-E2-AB	32.0	800	23.5	588	18.0	450	13.5	338	10.5	263	8.0	200
SNSP-14-40-E2-AB	27.5	688	20.0	500	15.0	375	11.5	288	9.0	225	7.0	175
SNSP-15-40-E2-AB	25.0	625	18.0	450	13.5	338	10.0	250	7.5	188	6.0	150
SNSP-16-40-E2-AB	20.0	500	14.0	350	9.5	238	6.5	163	4.5	113	2.5	63
SNSP-18-40-E2-AB	17.0	425	12.0	300	8.5	213	5.5	138	3.5	88	2.0	50
SNSP-20-40-E2-AB	15.0	375	10.5	263	7.0	175	5.0	125	3.0	75	2.0	50
SNSP-20-40-V2-AB	23.5	588	17.0	425	12.5	313	9.0	225	6.5	163	5.0	125
SNSP-20-50-E2-AB	26.0	650	18.5	463	13.5	338	9.5	238	7.0	175	5.0	125
SNSP-20-50-V2-AB	40.5	1013	29.5	738	22.0	550	17.0	425	13.0	325	10.0	250
SNSP-25-40-E2-AB	9.0	225	5.5	138	3.0	75	1.5	38	---	---	---	---
SNSP-25-40-V2-AB	15.0	375	10.5	263	7.0	175	4.5	113	3.0	75	1.5	38
SNSP-25-50-E2-AB	16.5	413	11.0	275	7.0	175	4.5	113	2.5	63	0.5	13
SNSP-25-50-V2-AB	27.0	675	19.5	488	13.5	338	9.5	238	7.0	175	4.5	113
SNSP-30-40-V2-AB	10.0	250	6.0	150	3.5	88	1.5	38	---	---	---	---
SNSP-30-50-E2-AB	10.0	250	5.5	138	2.5	63	0.5	13	---	---	---	---
SNSP-30-50-V2-AB	18.5	463	12.5	313	8.0	200	5.0	125	2.5	63	1.0	25
SNSP-30-60-V2-AB	30.5	763	21.0	525	14.5	363	9.5	238	6.0	150	3.5	88
SNSP-30-70-H2-AB	60.0	1500	43.0	1075	31.5	788	23.5	588	17.5	438	12.5	313
SNSP-30-80-H2-AB	82.0	2050	60.0	1500	44.5	1113	33.5	838	25.5	638	19.0	475
SNSP-35-50-V2-AB	13.0	325	7.5	188	4.0	100	1.0	25	---	---	---	---
SNSP-35-60-V2-AB	22.0	550	14.0	350	8.5	213	4.5	113	1.5	38	---	---
SNSP-35-70-V2-AB	33.5	838	22.0	550	14.5	363	9.0	225	5.0	125	2.0	50
SNSP-35-70-H2-AB	46.0	1150	31.5	788	22.5	563	15.5	388	10.5	263	6.5	163
SNSP-35-80-H2-AB	64.0	1600	45.5	1138	32.5	813	23.5	588	16.5	413	11.5	288
SNSP-40-60-V2-AB	15.5	388	8.5	213	4.0	100	0.5	13	---	---	---	---
SNSP-40-70-V2-AB	24.5	613	15.0	375	8.5	213	3.5	88	0.5	13	---	---
SNSP-40-70-H2-AB	35.5	888	23.5	588	15.0	375	9.5	238	5.0	125	1.5	38
SNSP-40-80-H2-AB	50.5	1263	34.5	863	23.5	588	15.5	388	9.5	238	5.0	125





Square Non-Tapered (Anchor Base)

FOUNDATIONS (SNSP-AB)								
Catalog Number	Foundation Data						Anchor Bolt Data	
	Caisson Diameter (in)	Caisson Depth (ft)	Vert Rebar Qty	Vert Rebar Size	Concrete Volume (Cu Yds)	Steel Weight (lbs)	Dia x Lgth x Hk	Bolt Circle Range (in)
SNSP-10-40-E2-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	8 to 9.5
SNSP-12-40-E2-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	8 to 9.5
SNSP-14-40-E2-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	8 to 9.5
SNSP-15-40-E2-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	8 to 9.5
SNSP-16-40-E2-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	8 to 9.5
SNSP-18-40-E2-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	8 to 9.5
SNSP-20-40-E2-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	8 to 9.5
SNSP-20-40-V2-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	8 to 9.5
SNSP-20-50-E2-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	10 to 12
SNSP-20-50-V2-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	10 to 12
SNSP-25-40-E2-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	8 to 9.5
SNSP-25-40-V2-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	8 to 9.5
SNSP-25-50-E2-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	10 to 12
SNSP-25-50-V2-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	10 to 12
SNSP-30-40-V2-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	8 to 9.5
SNSP-30-50-E2-AB	24	5.00	8	#5	0.58	59	.75 x 30 x 3	10 to 12
SNSP-30-50-V2-AB	24	5.00	8	#5	0.58	59	1 x 36 x 4	10 to 12
SNSP-30-60-V2-AB	30	5.00	8	#6	0.91	80	1 x 36 x 4	11 to 13
SNSP-30-70-H2-AB	30	5.00	8	#6	0.91	80	1.25 x 42 x 6	13.5 to 15.5
SNSP-30-80-H2-AB	30	5.00	8	#6	0.91	80	1.25 x 42 x 6	14.5 to 16.5
SNSP-35-50-V2-AB	30	6.00	10	#6	1.09	114	1 x 36 x 4	10 to 12
SNSP-35-60-V2-AB	30	6.00	10	#6	1.09	114	1 x 36 x 4	11 to 13
SNSP-35-70-V2-AB	30	6.00	10	#6	1.09	114	1 x 36 x 4	13.5 to 15.5
SNSP-35-70-H2-AB	30	6.00	10	#6	1.09	114	1.25 x 42 x 6	13.5 to 15.5
SNSP-35-80-H2-AB	30	6.00	10	#6	1.09	114	1.25 x 42 x 6	14.5 to 16.5
SNSP-40-60-V2-AB	30	6.00	12	#7	1.09	166	1 x 36 x 4	11 to 13
SNSP-40-70-V2-AB	30	6.00	12	#7	1.09	166	1 x 36 x 4	13.5 to 15.5
SNSP-40-70-H2-AB	30	7.00	12	#7	1.27	196	1.25 x 42 x 6	13.5 to 15.5
SNSP-40-80-H2-AB	30	7.00	12	#7	1.27	196	1.25 x 42 x 6	14.5 to 16.5

- Notes:
- The above information is for estimating purposes only. Do not use for construction.
 - Analysis is based upon Brom's method of foundation design.
 - All of the designs are based upon the following soil parameters:
 - Soil is homogeneous, non-cohesive
 - $\phi = 30$ degrees
 - $\gamma = 110$ pcf.
 - Water table is below bottom of foundation.
 - Site grade is 7H:1V or flatter.
 - Concrete 28 day compressive strength = 3000 psi.
 - Reinforcing meets the requirements of ASTM A615 grade 60.
 - Concrete design is in accordance with ACI 318-95.
 - Concrete is cast against undisturbed soil.
 - All reinforcing must be covered by a minimum of 3" of concrete on all sides.
 - All vertical reinforcing bars are equally spaced.
 - #4 reinforcing bars are used as hoops and are spaced on 12" centers.

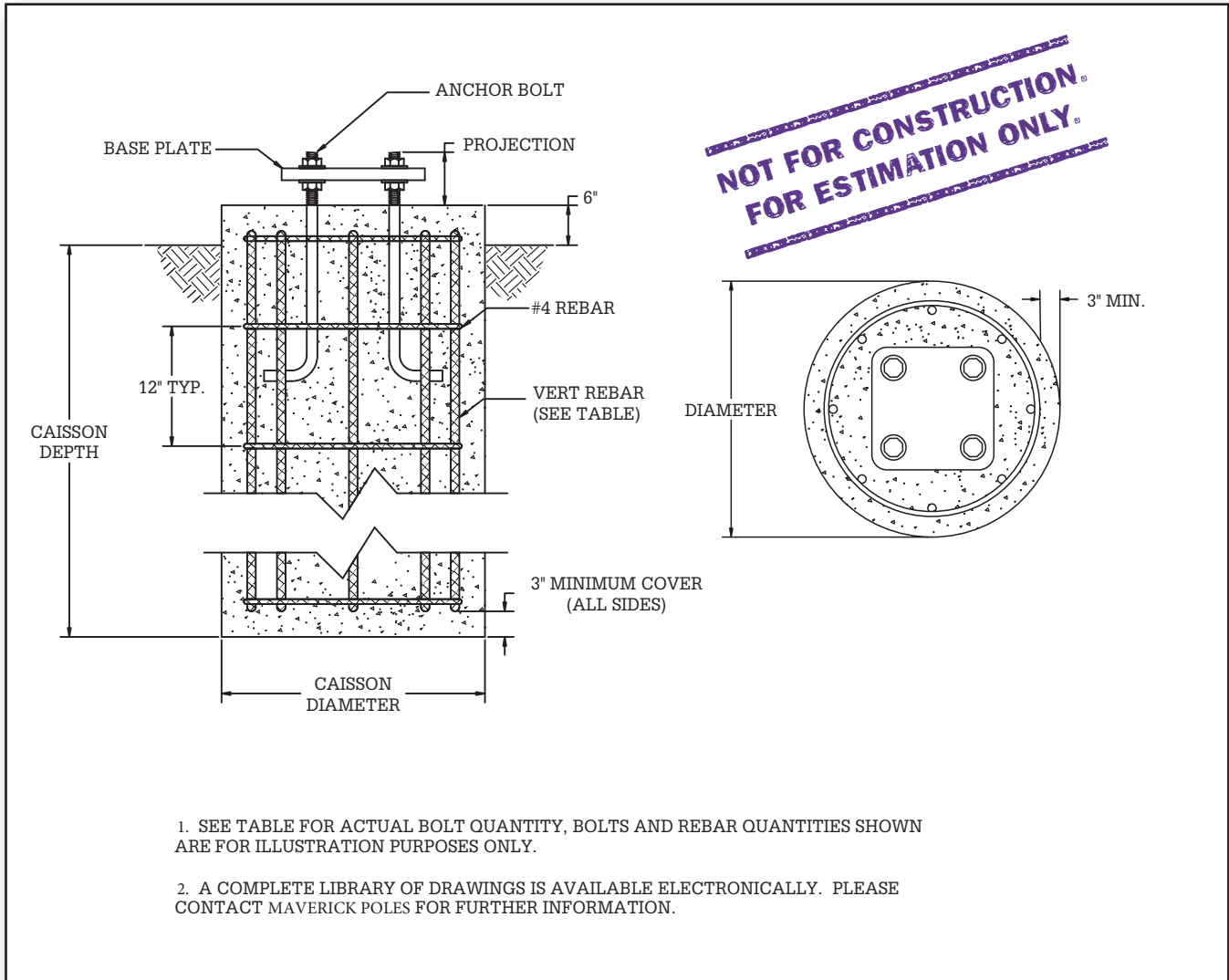
**NOT FOR CONSTRUCTION
 FOR ESTIMATION ONLY**

The information above is provided for preliminary estimating use only and may not be used as final or construction designs. Maverick Poles makes no warranty of any type with respect to such information. Final designs will vary with soil, environmental and other conditions. Any final design must be created, reviewed and approved by customer's licensed engineer

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Square Non-Tapered (Anchor Base)



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