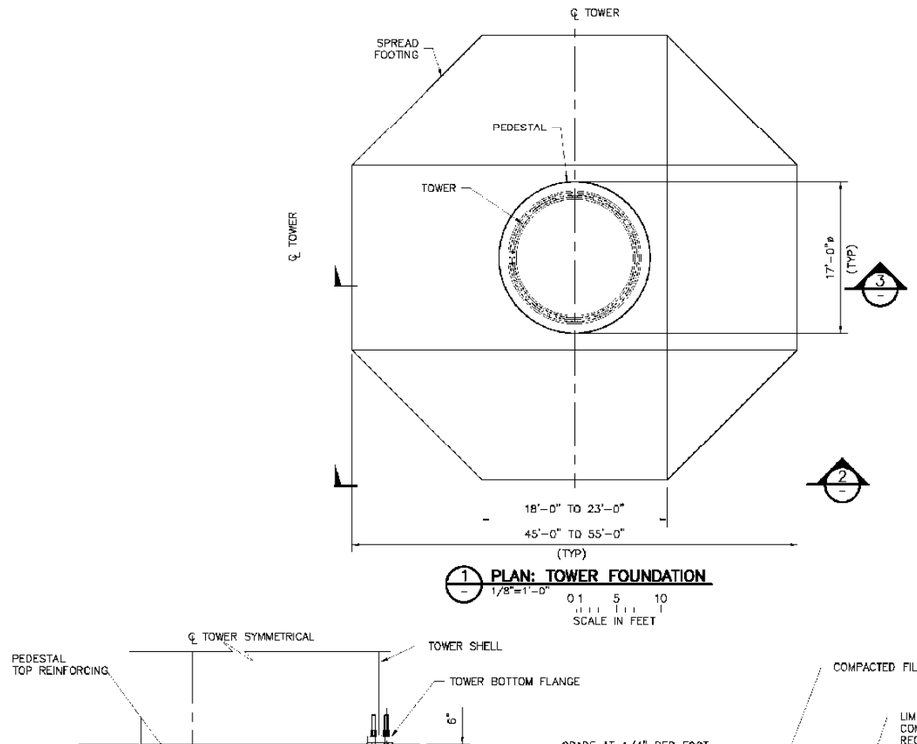
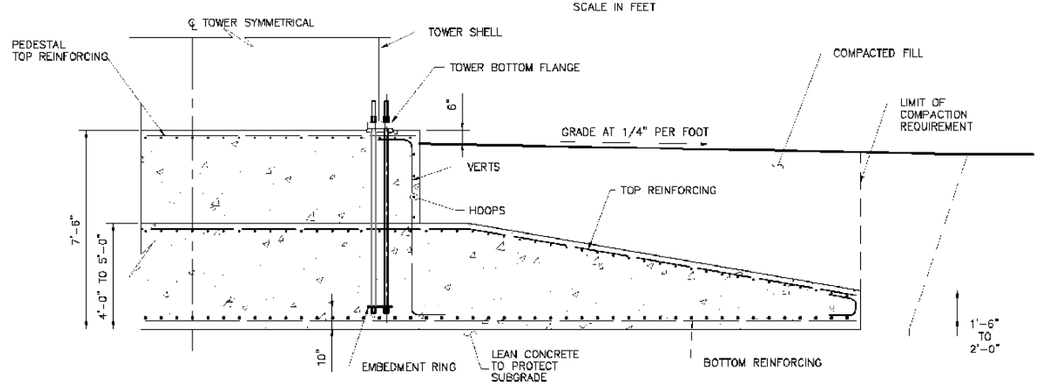
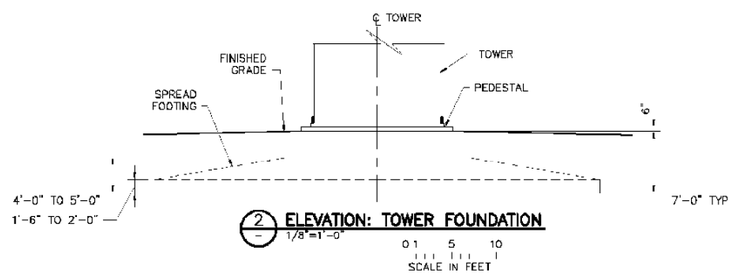


1 PLAN: TOWER FOUNDATION
1/8"=1'-0"
SCALE IN FEET



3 SECTION: TOWER FOUNDATION
3/8"=1'-0"
SCALE IN FEET



2 ELEVATION: TOWER FOUNDATION
1/8"=1'-0"
SCALE IN FEET

BUILDING AND DESIGN CODES:

INTERNATIONAL BUILDING CODE 2003, INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS.

BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318, 2005, AMERICAN CONCRETE INSTITUTE.

WIND TURBINE AND TOWER:

MANUFACTURER: VARIES
MODEL: VARIES
POWER OUTPUT: 1.5 MW
TURBINE HUB HEIGHT: 80m
ROTOR DIAMETER: VARIES

DESIGN SERVICE LOADS:

UNFACTORED SERVICE LOADS DUE TO EXTREME WIND CONDITION CLASS IEC-II (CRITICAL)

OVERTURNING MOMENT, Mxy VARIES
HORIZONTAL BASE SHEAR, Hxy VARIES
VERTICAL TOWER LOAD, Wz VARIES

FOUNDATION DESIGN DATA:

MIN. FACTOR OF SAFETY AGAINST OVERTURNING: >1.5
MIN. FACTOR OF SAFETY AGAINST SLIDING: >1.5
MIN. FACTOR OF SAFETY AGAINST BEARING CAPACITY FAILURE: >3.0

TOTAL NEAT VOLUME OF CONCRETE:
200-450 CUBIC YARDS

ABBREVIATIONS:

B.O.	BOTTOM OF	O.C.	ON CENTER
C.C.C.	CLEAR CONCRETE COVER	O.D.	OUTSIDE DIAMETER
℄	CENTER LINE	R	RADIUS
EL.	ELEVATION	T&B	TOP AND BOTTOM
E.W.	EACH WAY	T.O.C.	TOP OF CONCRETE
EX.	EXISTING	TYP	TYPICAL
I.D.	INSIDE DIAMETER	UNO	UNLESS NOTED OTHERWISE
MIN.	MINIMUM	W/	WITH
		ø	DIAMETER

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American Consulting Professionals of New York, PLLC

TOWER FOUNDATION

HOUNSFIELD WIND FARM

FIGURE 1.2-6