



**Don't Settle for less.  
Choose the best.**

**Home of SteadyMax - The Most Rigid Pole in The World**



**Don't Settle for a repurposed light pole.  
Choose the engineered solution.**

**[StrongPoles.com](http://StrongPoles.com) / 844-669-3537**





# STEADYMAX

FLORIDA POLE

Designed to withstand  
**190 MPH winds!**

**STRONGPOLES**  
SECURITY MOUNTING SOLUTIONS  
StrongPoles.com / 844-669-3537

## THE ONLY CAMERA POLE FOR EXTREME WINDS

### STEADYMAX<sup>FL</sup>

Strong Poles has designed a new pole to pass Florida Building Code 2017 Specifications for a 190 MPH Wind Speed.

This 12' SteadyMax Pole is the strongest, most rigid pole we have ever made. This incredible SteadyMax Pole can carry a full load of cameras, cabinets, sensors and antennas, yet still maintains our proprietary 3% movement under 190 mph winds.

These engineered camera poles also have a Factory-Installed Vibration Suppression System (Read More) that consists of two different frequency dampeners that quell high and low frequency vibrations and oscillations that may occur during the life of the pole.

The result is the Steadiest, most rigid pole we have ever built, yet is very lightweight (our 12' pole weighs only 65 lbs.). This is an amazing Engineering feat to make a pole this steady, yet this lightweight.

- The 12' SteadyMax Florida Camera Pole is a 6" diameter, non-tapered, heavy wall (.188 thick), aluminum round pole made out of 6063-T6 Aluminum and can be ordered in our usual White or Black (Dark Bronze) Powder Coat finishes.

#### Steady Max Wind Load Calculations

Part number	Height	Butt Diameter	Wall Thickness	Wind Velocity Per AASHTO 2015 (mph and sq ft)						
				130	140	150	160	170	180	190
SP-SM12S	12	6"	.188"	18.1	15.4	13.3	11.1	10.1	8.9	8.1
SP-SM12FL	12	6"	.188"	18.1	15.4	13.3	11.1	10.1	8.9	8.1
SP-SM16	16	6"	0.156	7.4	5.8	5	4.3	3.7	3.2	2.8
SP-SM20	20	8"	0.156	10.9	8.7	7.4	6.4	5.5	4.9	4.2
SP-SM25	25	8"	0.25	10	7.7	6.5	5.6	4.8	4.2	3.6

Maximum EPA Values (in sq ft) based on Florida Building Code 2017 ratings & AASHTO 2015 Specifications for a combined EPA Loading as indicated above with a maximum combined weight of 25lbs/sq ft of the EPA indicated.

Note: Pole base to be mounted no higher than 2' above grade and with a combined wind and dead load deflection limit of 3% of pole height.

**STEADYMAX**  
the most rigid poles in the world

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## 150 MPH WIND - 3% MOVEMENT

The **SteadyMax** series of round, tapered camera poles are the most rigid poles we have ever manufactured.

These poles are engineered to withstand **150 mph** winds with a full load of cameras, cabinets and sensors – yet are limited to 3% of movement under those conditions.

These engineered camera poles also have a Factory-Installed Vibration Suppression System that consists of two different frequency dampeners that quell high and low frequency vibrations and oscillations that may occur during the life of the pole. The result is the steadiest, most rigid pole we have ever built, yet is very lightweight (our 16' pole weighs only 65 lbs.). This is an amazing Engineering feat to make a pole this steady, yet this lightweight.

- The 16' SteadyMax is a 6", non-tapered, heavy wall (.156 thick), aluminum round pole made out of 6063-T6 Aluminum.
- The 20' SteadyMax is a round tapered pole, and is approximately 8" O.D. at the bottom, and tapers down to 6" O.D. at the top of the pole where the attachment plate is. This pole is heavy wall (.156 thick) construction, using 6063-T6 Aluminum.
- The 25' SteadyMax is tapered from approximately 8" O.D. At the bottom, to 6" O.D. at the top of the pole where the attachment plate is. This pole is a Ultra Heavy Wall (.250 thick – 1/4") aluminum tapered round pole using 6063-T6 Aluminum,

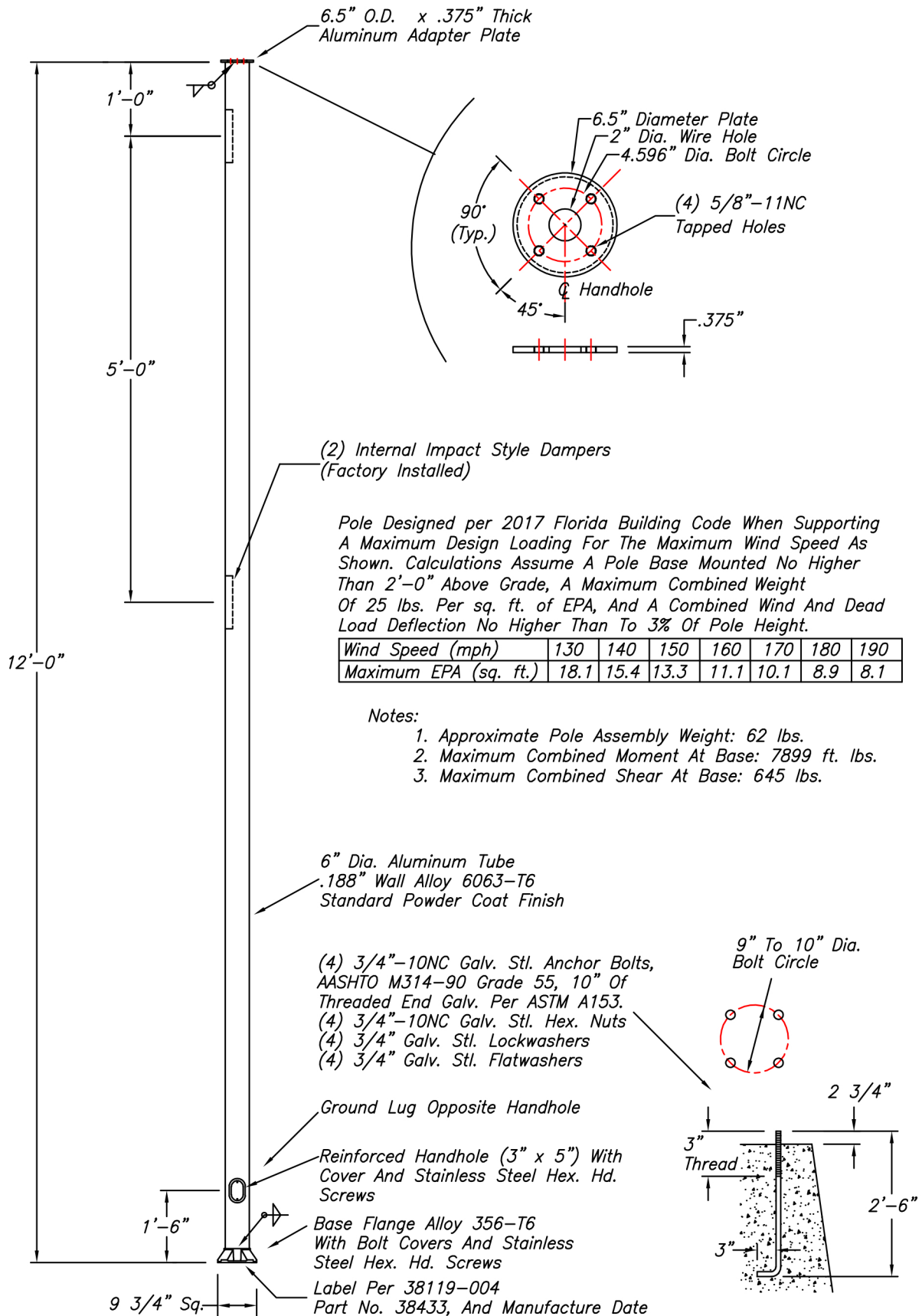
All can be ordered in our usual White or Black (Dark Bronze) Powder Coat finishes. The standard Hand Hole is 18" from the base, and if you want an extra Hand Hole it is 5' from the top of the pole.

### Steady Max Wind Load Calculations

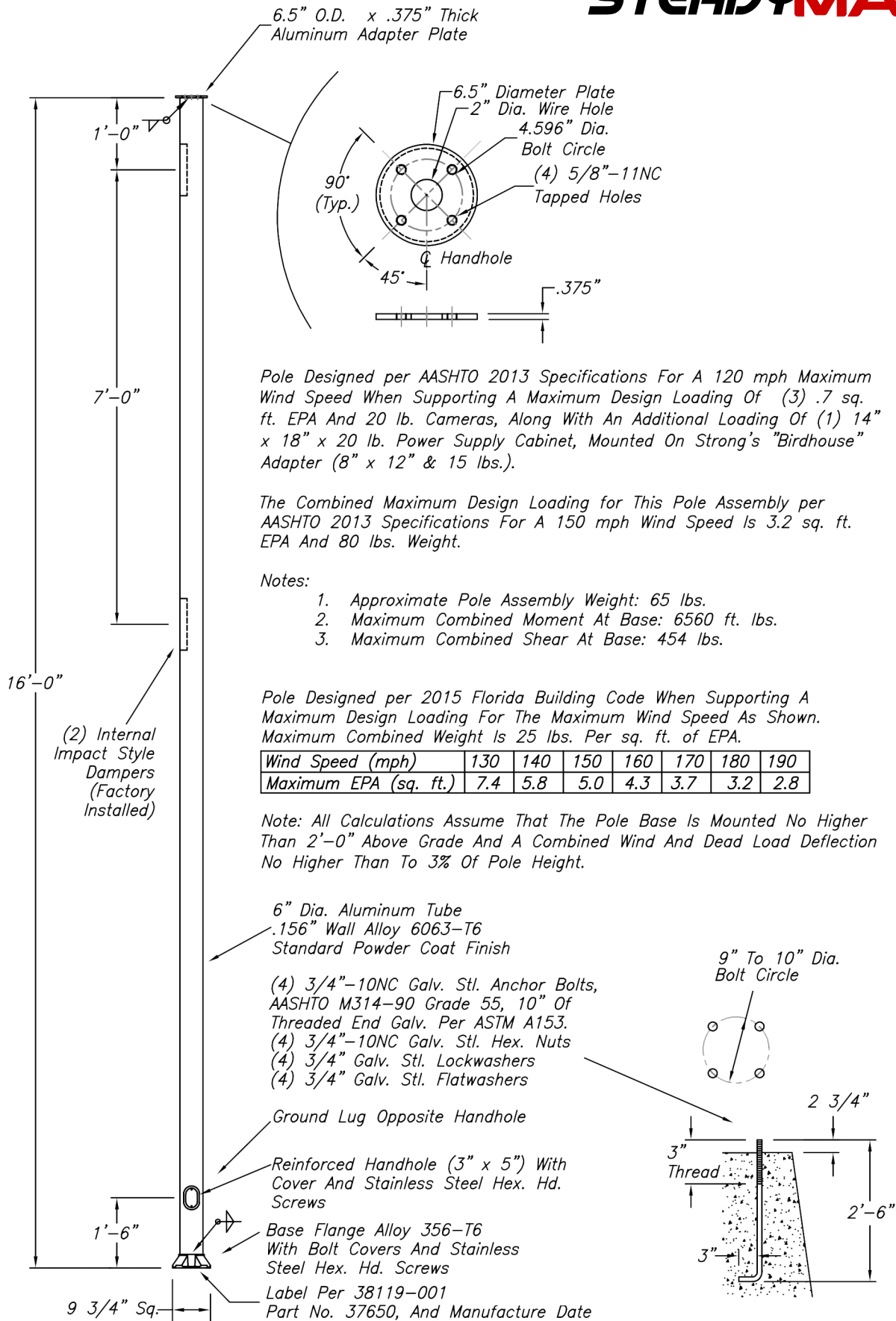
Part number	Height	Butt Diameter	Wall Thickness	Wind Velocity Per AASHTO 2015 (mph and sq ft)						
				130	140	150	160	170	180	190
SP-SM12S	12	6"	.188"	18.1	15.4	13.3	11.1	10.1	8.9	8.1
SP-SM12FL	12	6"	.188"	18.1	15.4	13.3	11.1	10.1	8.9	8.1
SP-SM16	16	6"	0.156	7.4	5.8	5	4.3	3.7	3.2	2.8
SP-SM20	20	8"	0.156	10.9	8.7	7.4	6.4	5.5	4.9	4.2
SP-SM25	25	8"	0.25	10	7.7	6.5	5.6	4.8	4.2	3.6

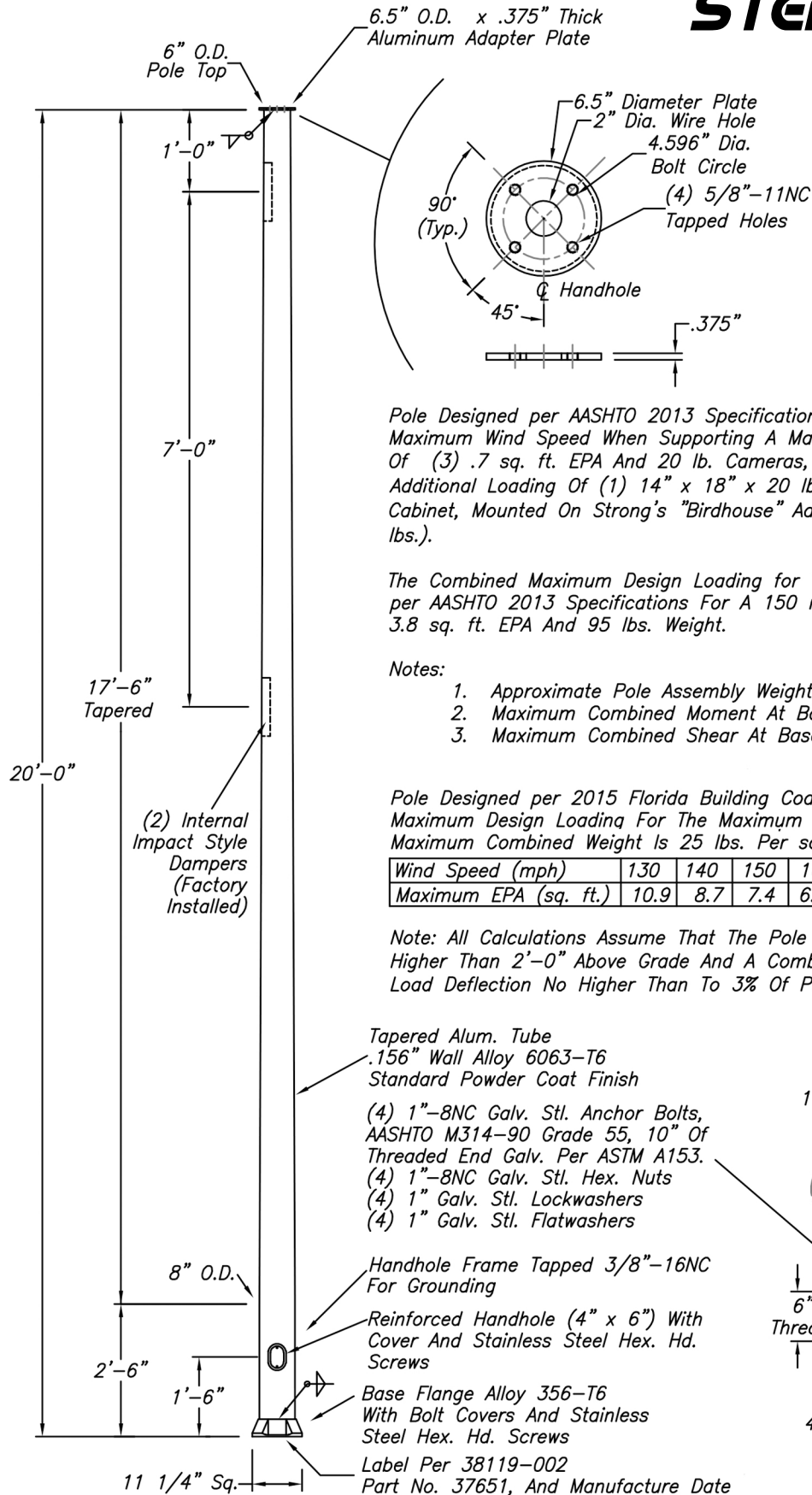
Maximum EPA Values (in sq ft) based on Florida Building Code 2017 ratings & AASHTO 2015 Specifications for a combined EPA Loading as indicated above with a maximum combined weight of 25lbs/sq ft of the EPA indicated.

Note: Pole base to be mounted no higher than 2' above grade and with a combined wind and dead load deflection limit of 3% of pole height.









Pole Designed per AASHTO 2013 Specifications For A 120 mph Maximum Wind Speed When Supporting A Maximum Design Loading Of (3) .7 sq. ft. EPA And 20 lb. Cameras, Along With An Additional Loading Of (1) 14" x 18" x 20 lb. Power Supply Cabinet, Mounted On Strong's "Birdhouse" Adapter (8" x 12" & 15 lbs.).

The Combined Maximum Design Loading for This Pole Assembly per AASHTO 2013 Specifications For A 150 mph Wind Speed Is 3.8 sq. ft. EPA And 95 lbs. Weight.

#### Notes:

1. Approximate Pole Assembly Weight: 89 lbs.
2. Maximum Combined Moment At Base: 11867 ft. lbs.
3. Maximum Combined Shear At Base: 652 lbs.

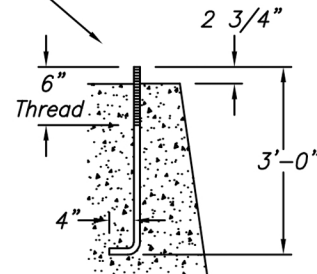
Pole Designed per 2015 Florida Building Code When Supporting A Maximum Design Loading For The Maximum Wind Speed As Shown. Maximum Combined Weight Is 25 lbs. Per sq. ft. of EPA.

Wind Speed (mph)	130	140	150	160	170	180	190
Maximum EPA (sq. ft.)	10.9	8.7	7.4	6.4	5.5	4.9	4.2

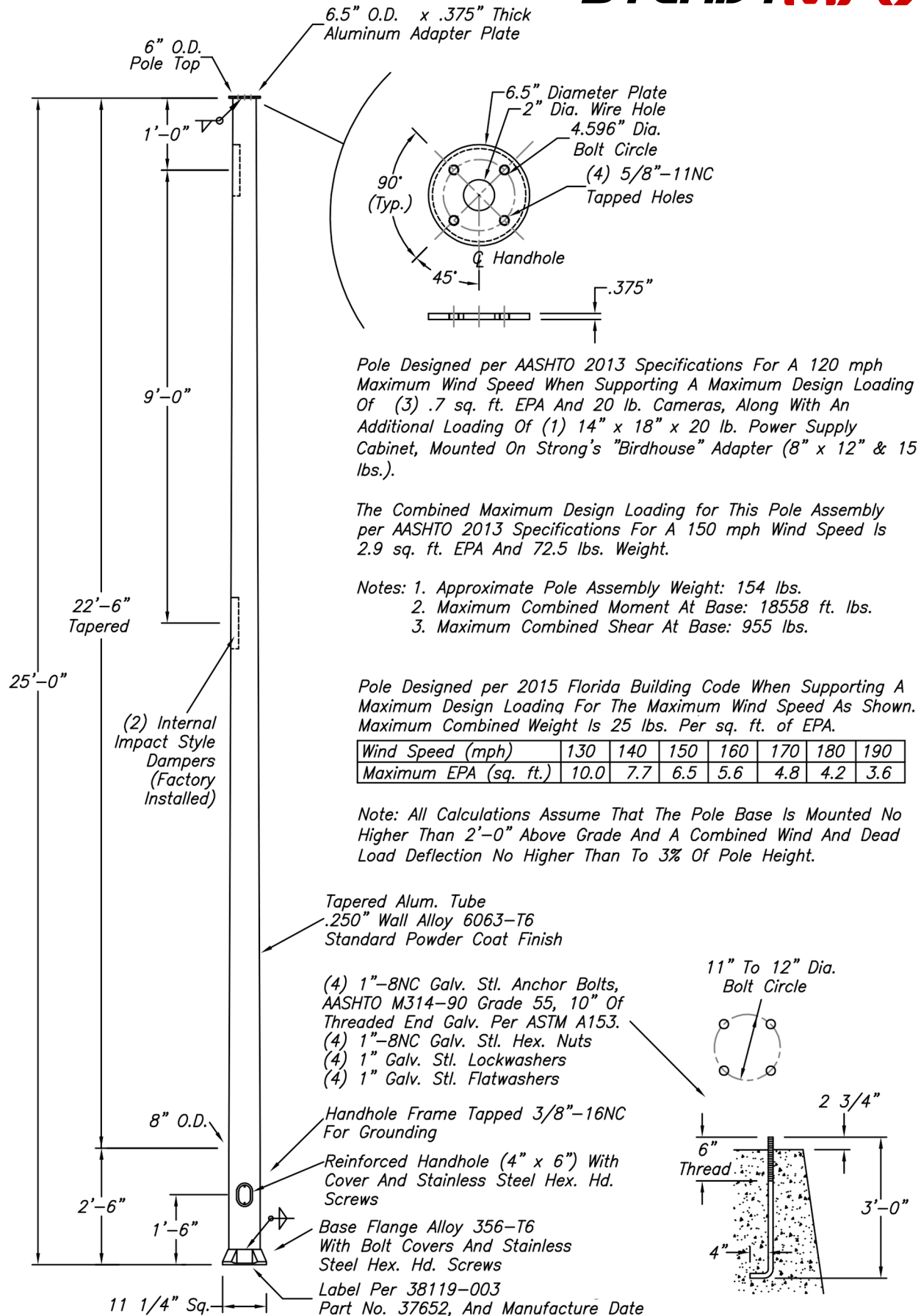
Note: All Calculations Assume That The Pole Base Is Mounted No Higher Than 2'-0" Above Grade And A Combined Wind And Dead Load Deflection No Higher Than To 3% Of Pole Height.

Tapered Alum. Tube  
.156" Wall Alloy 6063-T6  
Standard Powder Coat Finish  
(4) 1"-8NC Galv. Stl. Anchor Bolts, AASHTO M314-90 Grade 55, 10" Of Threaded End Galv. Per ASTM A153.  
(4) 1"-8NC Galv. Stl. Hex. Nuts  
(4) 1" Galv. Stl. Lockwashers  
(4) 1" Galv. Stl. Flatwashers

11" To 12" Dia. Bolt Circle







## **SECTION 282000 - VIDEO SURVEILLANCE**

### **PART 1 GENERAL**

#### **1.01 SECTION INCLUDES**

- A. Accessories.

#### **1.02 RELATED REQUIREMENTS**

- A. Section 033000 - Cast-in-Place Concrete: Materials and installation requirements for concrete bases for camera poles.
- B. Section 078400 - Firestopping.
- C. Section 260526 - Grounding and Bonding for Electrical Systems.
- D. Section 260529 - Hangers and Supports for Electrical Systems.
- E. Section 260553 - Identification for Electrical Systems: Identification products and requirements.

#### **1.03 REFERENCE STANDARDS**

- A. AASHTO LTS - Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals 2013 (Revised 2019).
- B. IEEE C2 - National Electrical Safety Code 2017.
- C. NECA 1 - Standard for Good Workmanship in Electrical Construction 2015.
- D. NECA 303 - Standard for Installing and Maintaining Closed-Circuit Television (CCTV) Systems 2019.

#### **1.04 ADMINISTRATIVE REQUIREMENTS**

- A. Coordination:
  - 1. Coordinate the placement of cameras with structural members, ductwork, piping, equipment, luminaires, diffusers, fire suppression system components, and other potential conflicts installed under other sections or by others.
  - 2. Coordinate the work with other installers to provide power for cameras and equipment at required locations.
  - 3. Notify Architect of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

#### **1.05 SUBMITTALS**

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturer's standard catalog pages and data sheets for each system component. Include ratings, configurations, standard wiring diagrams, dimensions, finishes, service condition requirements, and installed features.
  - 1. Camera Poles: Include information on maximum supported effective projected area (EPA) and weight for design wind speed.
- C. Camera Poles: Certify that products and associated supports comply with specified structural design criteria.

### **PART 2 PRODUCTS**

#### **2.01 ACCESSORIES**

- A. Camera Mounting Supports: Where not factory installed, provide mounting supports necessary for installation.
  - 1. Products:
    - a. StrongPoles, LLC; HD Parapet Camera Mount: [www.strongpoles.com/#sle](http://www.strongpoles.com/#sle).
    - b. StrongPoles, LLC; Parapet Mount: [www.strongpoles.com/#sle](http://www.strongpoles.com/#sle).
    - c. StrongPoles, LLC; Surface Mount Pole: [www.strongpoles.com/#sle](http://www.strongpoles.com/#sle).
- B. Camera Poles:
  - 1. Provide poles suitable for cameras, supports, and accessories to be installed.
  - 2. Structural Design Criteria:



- a. Comply with AASHTO LTS.
- b. Wind Load: Include effective projected area (EPA) of cameras, supports, and accessories to be installed.
  - 1) Design Wind Speed: [ ] mph ([ ] kph), with gust factor of 1.3.
- c. Dead Load: Include weight of proposed cameras, supports, and accessories.
- d. [ ].
- 3. Pole Configuration: As indicated on drawings.
- 4. Pole Configuration:
  - a. Material: Use steel or aluminum.
  - b. Shape: Use square or round, straight or tapered.
  - c. Mounting Height: [ ], unless otherwise indicated.
  - d. Mounting: Install on concrete foundation, height as indicated on the drawings, unless otherwise indicated.
- 5. Provide ground lug, accessible from handhole.
- 6. Provide the following:
  - a. Top cap.
  - b. Handhole.
  - c. Anchor bolts with leveling nuts or leveling shims.
  - d. Anchor base cover.
  - e. Pole-top tenon, size as required for installed camera/bracket.
- 7. Products:
  - a. StrongPoles, LLC; SteadyMax Camera Poles: [www.strongpoles.com/#sle](http://www.strongpoles.com/#sle).
  - b. StrongPoles, LLC; 4 Inch Square Camera Poles: [www.strongpoles.com/#sle](http://www.strongpoles.com/#sle).
  - c. StrongPoles, LLC; 5 Inch Square Direct-Burial Camera Poles: [www.strongpoles.com/#sle](http://www.strongpoles.com/#sle).
- C. Provide components as indicated or as required for connection of video surveillance system to devices and other systems indicated.
- D. Provide cables as indicated or as required for connections between system components.
- E. Provide accessory racks/cabinets as indicated or as required for equipment mounting.

### **PART 3 EXECUTION**

#### **3.01 EXAMINATION**

- A. Verify that field measurements are as indicated.
- B. Verify that ratings and configurations of system components are consistent with the indicated requirements.
- C. Verify that mounting surfaces are ready to receive system components.
- D. Verify that branch circuit wiring installation is completed, tested, and ready for connection to system where applicable.
- E. Verify that conditions are satisfactory for installation prior to starting work.

#### **3.02 INSTALLATION**

- A. Install video surveillance system in accordance with NECA 1 (general workmanship) and NECA 303.
- B. Install products in accordance with manufacturer's instructions.
- C. Provide required support and attachment in accordance with Section 260529.
- D. Pole-Mounted Cameras:
  - 1. Maintain the following minimum clearances:
    - a. Comply with IEEE C2.
    - b. Comply with utility company requirements.
  - 2. Foundation-Mounted Poles:
    - a. Provide cast-in-place concrete foundations for poles as indicated; see Section 033000.

- 1) Install anchor bolts plumb using template furnished by pole manufacturer.
  - 2) Position conduits to enter pole shaft.
- b. Install foundations plumb.
- c. Install poles plumb, using leveling nuts or shims as required to adjust to plumb.
- d. Tighten anchor bolt nuts to manufacturer's recommended torque.
- e. Install nonshrink grout between pole anchor base and concrete foundation, leaving small channel for condensation drainage.
- f. Install anchor base covers or anchor bolt covers as indicated.
3. Embedded Poles: Install poles plumb.
- E. Provide grounding and bonding in accordance with Section 260526.
- F. Install firestopping to preserve fire resistance rating of partitions and other elements, using materials and methods specified in Section 078400.
- G. Identify system wiring and components in accordance with Section 260553.

**END OF SECTION**